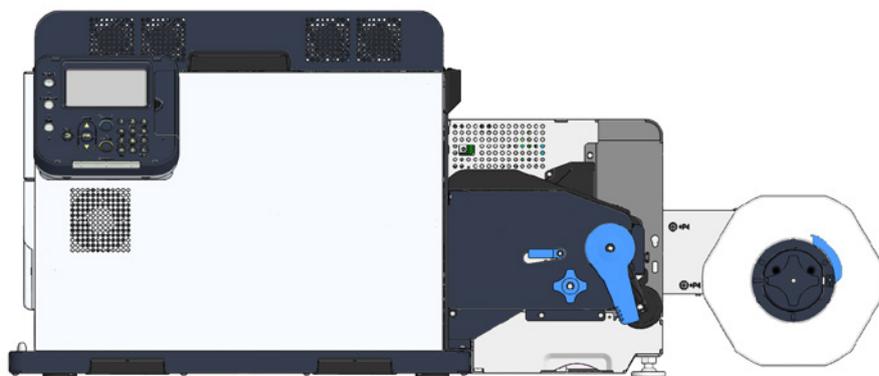


**Pro1040/Pro1050**

# **Windows PS Printer Driver User's Guide**



# ● Reading the Manual

## Symbols



Note

- These are cautions and restrictions for the correct operation of the device. Make sure to read to avoid misoperation.



Memo

- These are references and information that are useful when using the device. We recommend reading them.



Reference

- These are the reference pages. Read to learn detailed information and relevant information.

### WARNING

- Mishandling due to ignoring this display may cause death or serious injury.

### CAUTION

- Mishandling due to ignoring this display may cause personal injury.

## Keys, Buttons, and Symbols

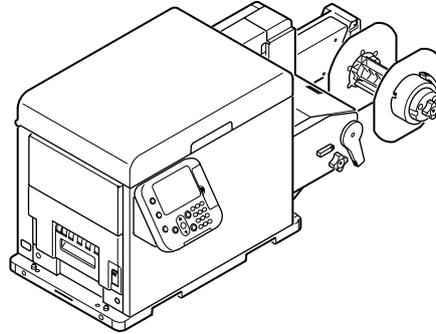
This chapter describes the following keys, buttons, and symbols.

Inscription	Description
< > button/key	<ul style="list-style-type: none"> <li>● Indicates hardware buttons and the numeric keypad on the control panel. E.g.:</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  → &lt;OK&gt; button         </div> <div style="text-align: center;">  → &lt;BACK&gt; button         </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">  → &lt;Fn&gt; key         </div> <div style="text-align: center;">  → &lt;CLEAR&gt; key         </div> </div> <ul style="list-style-type: none"> <li>● Indicates your PC keyboard.</li> </ul>
[ ]	<ul style="list-style-type: none"> <li>● Indicates menu names on the display screen.</li> <li>● Indicates menu, window, and dialog names on the computer.</li> </ul>
" "	<ul style="list-style-type: none"> <li>● Indicates messages and input text on the display screen.</li> <li>● Indicates file names and screen names on the computer.</li> <li>● Indicates reference titles.</li> </ul>
>	Indicates how to get to the item you want in the menu of this printer or the computer.

## Illustrations

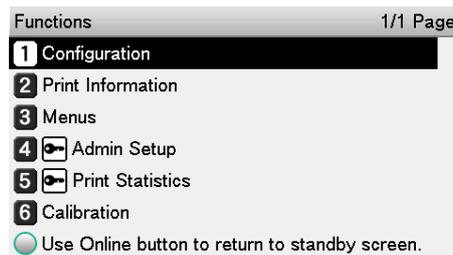
Unless otherwise specified, the printer illustrations used herein show the printer with the unwinder mounted.

Illustrations may differ from the actual product.



## Screens

The images of the control panel and PC used herein are examples. The images may differ from actual products and screens.



## Inscriptions

The following inscriptions are used in this manual.

- Microsoft® Windows® 10 64-bit Edition operating system → Windows 10 (64-bit version)
- Microsoft® Windows® 10 operating system → Windows 10

Unless otherwise specified, the examples in the manuals included with the printer show operation using Windows 10 and the Pro 1050 printer.

Depending on the OS, model, and version you are using, descriptions in this manual may differ from what you actually encounter.

## Trademarks

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# 1

# Paper Settings

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 **Note**

- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- For detailed explanations of the printer driver setup items, see "Online Help".
- Due to printer driver version upgrades, actual operations may be different from the descriptions in this manual.

# ● Printing on Various Papers

## Usable Media Types

For high-quality printing it is necessary to use paper that satisfies conditions regarding quality, thickness, paper finish, etc. If printing on paper not recommended by OKI, thoroughly test the print quality and paper traveling performance, etc., and check that there are no impediments before use.

If using a (paper) medium that is curled or wrinkled before printing, print quality and paper traveling performance cannot be assured.

## Paper Types, Size, and Thickness

### ■ Roll Paper Specifications



Reference

- Refer to the "Maintenance Guide" for specific paper sizes.

#### Roll Paper Types

Media Form	Description
Continuous Paper	Paper wound on a roll
Continuous Paper (Black Mark)	Paper wound in a roll with black marks printed on the back surface
Die-cut Label (Gap)	Paper that is die-cut into a label shape
Die-cut Label (Black Mark)	Paper that is die-cut into a label shape with black marks printed on the back surface
Continuous Label	Paper that is not die-cut into a label shape, with the entire surface covered with label paper
Continuous Label (Black Mark)	Paper that is not die-cut into a label shape, with the entire surface covered with label paper and black marks printed on the back surface

Media Type	Description
Plain	Wood-free Paper
Plain Labels	Label paper made of wood-free paper
Glossy Labels	Label paper made of glossy paper
Film Labels	Label media made of film
Film	Film

#### Roll Paper Size

Roll Outside Diameter	No greater than 203.2 mm (8 inches)
Paper Width	25.4 to 130 mm (1 to 5.12 inches)
Paper Thickness	0.07 mm to 0.25 mm* (0.003 to 0.0098 inches)
Roll Core Width	Same as roll paper
Roll Core Inner Diameter	76.2 mm

\*: When there is backing paper, total thickness includes backing paper.



Note

- Using metal foil paper or conductive paper creates the risk of defective printing due to electrical discharge, and device malfunction.  
Use of metal foil paper and conductive paper is prohibited.
- Using ink jet paper or label paper will cause device malfunction. Use of ink jet paper or label paper is prohibited.
- Use paper that has black marks printed on its back surface (non-printing surface). Black marks printed on the front surface cannot be detected.
- Use paper with black marks printed with carbon ink. Use paper with black marks that have a reflective index of less than 10%.

- Die-cut labels that are used in Gap Mode must satisfy the following conditions.  
The transparency of the label part (including both the label and the label liner) must be below 25%.  
The liners must be within a range of 10% to 45% transparent. However, the transparency of the liners must be more than 1.8 times the transparency of the label part.
- Die-cut labels that are used in Gap Mode cannot use transparent liners or labels.
- Die-cut labels that are used in Black Mark Mode cannot use transparent liners.
- Use continuous labels that have been smoothed on both edges and have been dry edge processed. Recommended specifications are for paper that has 2 mm of liner on both edges. Please refer to the "Maintenance Guide" for details.
- Thermal paper will become discolored and deformed by heat used for fusing. Do not use it.
- Use film that can withstand heat up to 230°C. Use of film that is not heat resistant creates the risk of film deformation by heat used for fusing, paper jams, and device malfunction.
- Do not use a liner on which glue is smeared. It will not feed correctly in the equipment. In the worst case, it could damage the equipment.
- Cast-coated paper is not recommended. Printing quality cannot be guaranteed when it is used.
- If the paper length, label length, or black mark interval for a single sheet is less than 4 inches, blank sheets may be printed to satisfy the paper length that can be fed.
- When printing on paper that is cut to less than 152 mm (6 inches) long in the direction that media is fed, it may feed at an angle.  
If this happens, print it so there is a continuous length that is longer than 152 mm (6 inches).
- When printing on paper that is very narrow (25.4 mm (1 inch)), it may feed at an angle at about 80 mm from the cut trailing edge.
- When printing on inside winding paper that is very narrow (25.4 mm (1 inch)), smeared or smudged printing may occur near the cut trailing edge as the roll diameter gets smaller.
- When printing on inside winding paper that is very narrow (25.4 mm (1 inch)), slight damage may occur at the leading edge as the roll diameter gets smaller.
- Use of the types of paper below is not supported.
  - Paper whose roll surfaces are not cut cleanly.
  - Paper that is connected part way through by tape, etc.
  - Label paper without backing paper with paste on the front surface
  - Paper whose labels are easy to peel or are peeling
  - Paper with paste squeezing out onto the base paper area or affixed to the label surface
  - Paper that is folded or bent
  - Paper that has holes in it
  - Paper that is notched
  - Paper that has perforations
  - Paper with different size labels on a single roll
  - Paper with different paper widths on a single roll
  - Media that has liners and labels that are both transparent (cannot be used even if it has black marks)
  - Continuous paper that is transparent (cannot be used even if it has black marks)

## ■ Setting the Paper Weight

Set the printer and printer driver paper weight according to the weight of the paper to be used.

<b>Paper Weight (Total thickness including backing paper)</b>	<b>Setting Value of the Media Weight</b>
76 to 95 μm	Light
96 to 140 μm	Medium Light
141 to 159 μm	Medium
160 to 180 μm	Medium Heavy
181 to 199 μm	Heavy
200 to 214 μm	Ultra Heavy1
215 to 229 μm	Ultra Heavy2
230 to 249 μm	Ultra Heavy3

## Storing Media

Improper paper storage can cause absorption of moisture, discoloration, and warping. Note that printing on such paper can adversely affect print quality, feeding, etc. Leave packages of media unopened until you are actually ready to use them.

### ■ Store media in locations like the ones described below

- On a flat shelf in a location that is dark and where there is little moisture
- On a flat table
- An environment with a temperature of 23°C ±1°C and humidity of 50%RH ±2%

### ■ Avoid locations like the ones described below

- Directly on the floor
- In direct sunlight
- Near the inside surface of an external wall
- On a surface that is uneven or curved
- In a location where electrostatic charge is generated
- In a location subjected to very high temperatures or sudden temperature changes
- Next to a photocopying machine, air conditioning equipment, heater, or duct



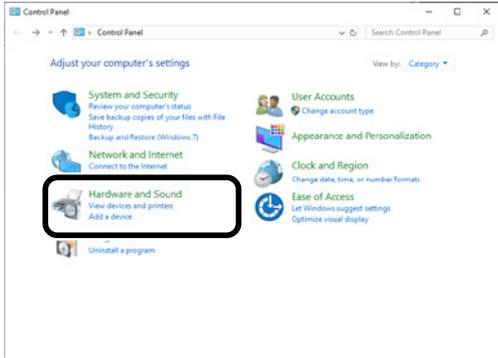
#### Note

- Proper printing may not be possible on paper that has been stored for a long time.
- Leaving roll paper in an environment where it is exposed to high temperatures and high humidity for long periods can cause it to become deformed. Do not use deformed roll paper. Store roll paper in an environment where the temperature and humidity are appropriate.
- We recommend putting partially used label paper back into the vinyl bag it was packaged in, to prevent the paper from absorbing moisture.

# ● Registering a Desired Paper Size with the Printer Driver

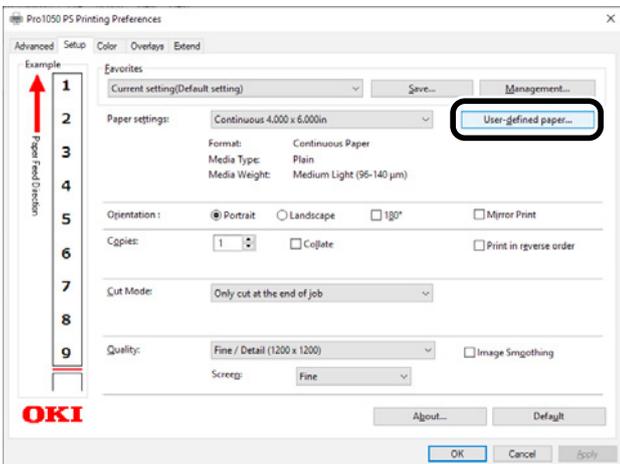
1 Click [Start] and select [Control Panel] in [Windows System].

2 Click [View devices and printers].



3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

4 On the [Setup] tab, click [User-defined paper].



5 Input information about the paper you want to register.

- (1) Use [Registered user-defined paper] to select "New paper".
- (2) In the [Paper Name] box, enter a paper name.
- (3) Select a Media Form to match the paper.
- (4) Select a Media Type to match the paper.

(5) Select a Media Weight to match the paper thickness.

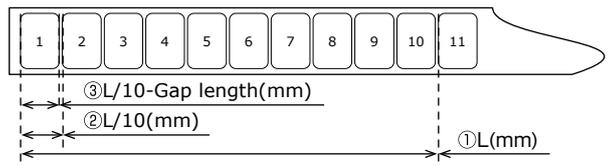


- If you are unsure of the paper thickness, select [Medium Light].

(6) Enter paper size information.



- Input the label length and gap for media that has gaps and the black mark interval for black mark media.
- Use a ruler to measure, as accurately as possible, the actual size of the media, and then input those values.
- If the label length or the black mark interval is less than 4 inches, use the following method to measure the media, and then input values to the first decimal place to be accurate.



### How to Measure the Actual Size of Paper

- ① Measure the length from the leading edge of the first label (or black mark leading edge) to the leading edge of the 11th label (or black mark leading edge). Use this as L (mm).
- ② Divide the length you measured in ① by 10 to calculate the length from the leading edge of the first label (or black mark leading edge) to the leading edge of the 2nd label (or black mark leading edge) to the first decimal place.
- ③ Subtract the length of the gap from the length you calculated in ② to calculate the length of one label to the first decimal place.

For media that has gaps, input the value calculated in ③ in [Label length] and input the gap length in [Gap].

For media that has black marks, input the value calculated in ② in [Black Mark Interval].

**Memo**

- A blank piece of paper may be inserted after cut pages if the paper length, label length, or black mark interval is less than 4 inches.

**Note**

- The minimum page length is 25.4 mm (1 inch) for the Windows PS printer driver, which is different from the Windows PCL printer driver.

**6** Enter other information as required.

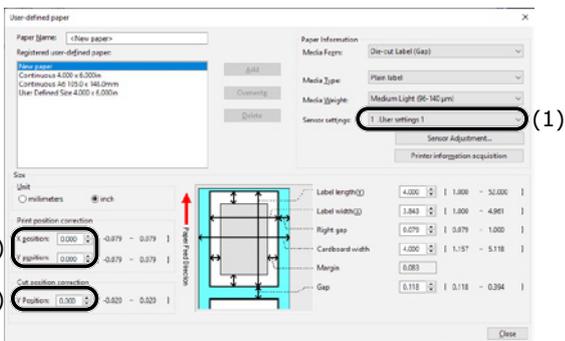
- (1) If you performed sensor adjustment, select the sensor setting that was registered to the device from [Sensor settings].

**Memo**

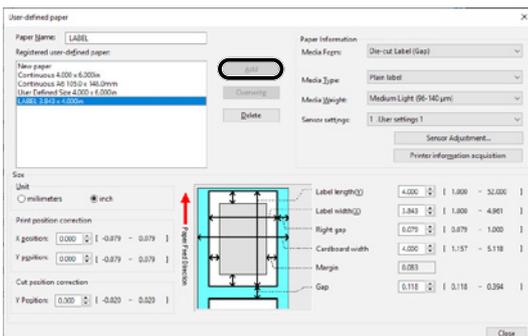
- Refer to "Calibrating the Sensor" (P.26) regarding how to adjust the sensor.

- (2) If you want to fine-tune the image position, enter the position shift amount into [Print position correction].

- (3) If you want to fine-tune the paper cut position, enter the position shift amount into [Cut position correction].



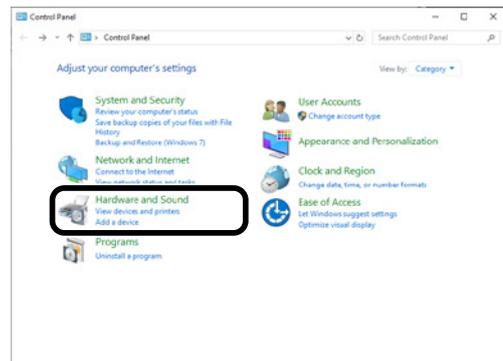
**7** When all the input is complete, click [Add].



# Using the Printer Driver to Fine-tune the Print Position

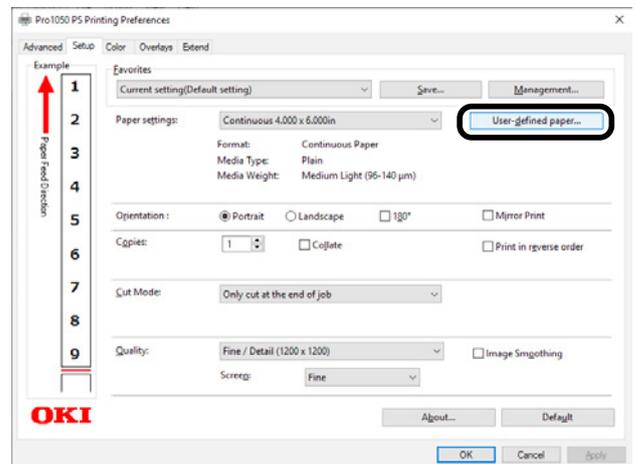
- 1 Click [Start] and select [Control Panel] in [Windows System].

- 2 Click [View devices and printers].



- 3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

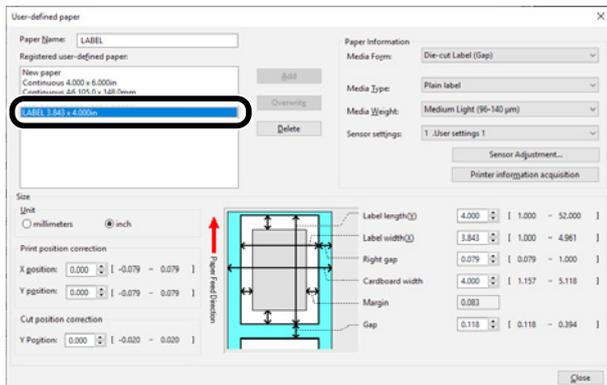
- 4 On the [Setup] tab, click [User-defined paper].



**5** Use the [Registered user-defined paper] list to select the paper whose print position you want to correct.



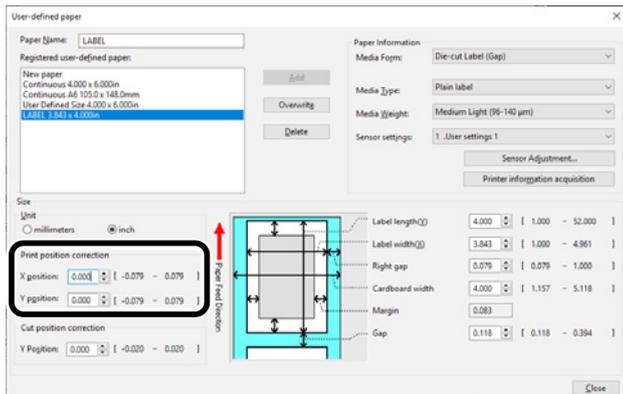
- If the paper you want to use is not in the list, select [New paper] and add it. See "Registering a Desired Paper Size with the Printer Driver" (P.11).



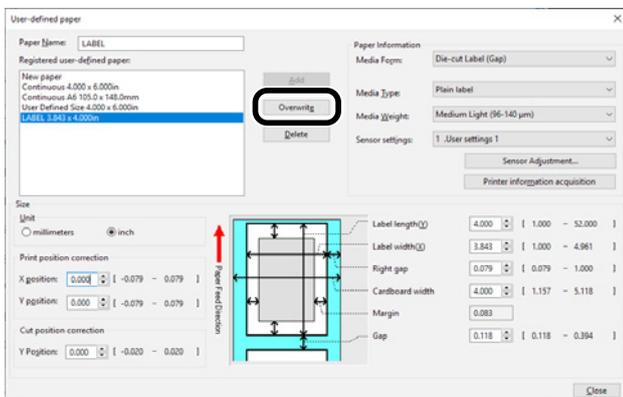
**9** Open the file to be printed.

**10** Specify the paper size, and then print.

**6** In [Print position correction], set the values for the print start positions vertically and horizontally on the paper.



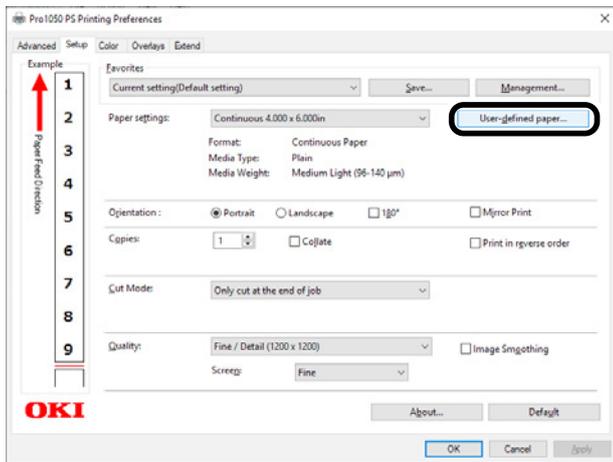
**7** Click [Overwrite].



**8** Click [OK] or [Close] as many times as necessary to exit the "Printing preferences" screen.

# Using the Printer Driver to Fine-tune the Cut Position

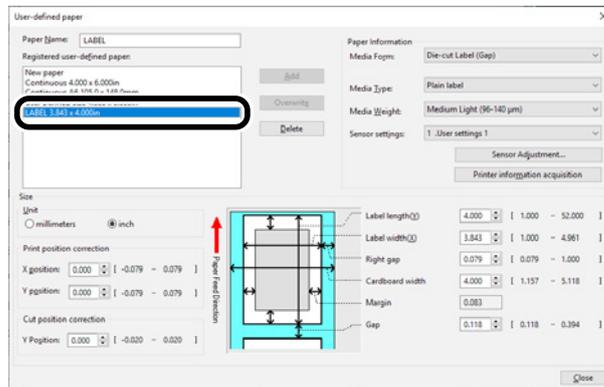
- 1 Click [Start] and select [Control Panel] in [Windows System].
- 2 Click [View devices and printers].
- 3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].
- 4 On the [Setup] tab, click [User-defined paper].



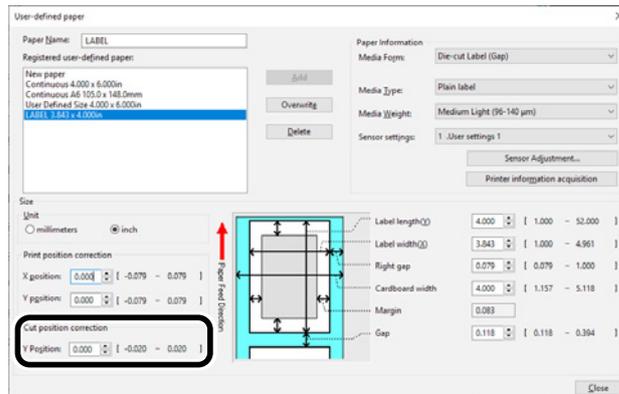
- 5 Use the [Registered user-defined paper] list to select the paper whose cut position you want to correct.



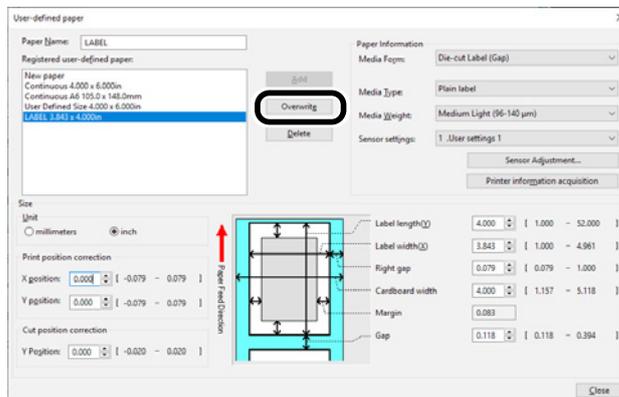
- If the paper you want to use is not in the list, select [New paper] and add it. See "Registering a Desired Paper Size with the Printer Driver" (P.11).



- 6 Use [Cut position correction] to specify an adjustment value for distance from the print completion position to the cut position.



- 7 Click [Overwrite].



- 8** Click [OK] or [Close] as many times as necessary to exit the "Printing preferences" screen.
- 9** Open the file to be printed.
- 10** Specify the paper size, and then print.



# 2

# Printing

<b>Preparing Paper .....</b>	<b>18</b>
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<b>Printing .....</b>	<b>34</b>
<b>Canceling a Print Job .....</b>	<b>35</b>



- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- For detailed explanations of the printer driver setup items, see "Online Help".
- Due to printer driver version upgrades, actual operations may be different from the descriptions in this manual.

# ● Preparing Paper

This section describes how to load paper onto the holder of the unwinder.

For paper sizes and types that can be loaded onto the unwinder, see "Roll Paper Specifications" (P.8).

- 1 Remove the paper from the packaging.
- 2 Take care of the tape that is holding the leading edge of the paper.

If there is no tape holding the leading edge of the paper, you can just load it as is.

- (1) Remove the tape that is holding the leading edge.



**Note**

- Remove the tape that is holding the leading edge of the paper before you use it. Do not load paper while the tape is still attached and feed it into the equipment. There is a risk of damaging the equipment.

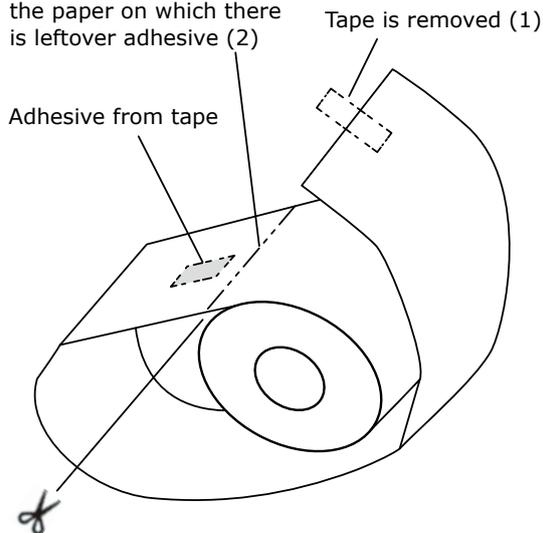
- (2) Cut off the part of the paper on which there is leftover adhesive.



**Note**

- There is a risk of adhesive being left over after removing the tape. If paper that still has adhesive on it is fed into the equipment, the adhesive may stick to the feed path and damage the equipment.

Cutting off the part of the paper on which there is leftover adhesive (2)



- 3 Check the leading edge of the paper and cut it off straight.

If the leading edge of the paper is cut straight, you can just load it as is.

Be particularly careful when replacing paper and after removing and reloading jammed paper.

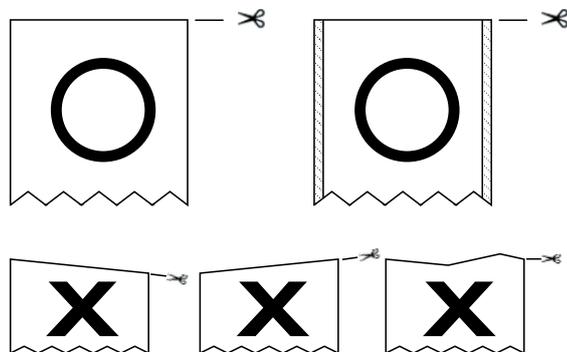
- (1) When loading paper, cut the leading edge of the paper straight before loading it.



**Note**

- Do not cut at an angle, do not cut black marks, and do not cut labels. Depending on the size and shape of the leading edge, there is a risk of skewing the print position, not being able to print, or damaging the equipment.

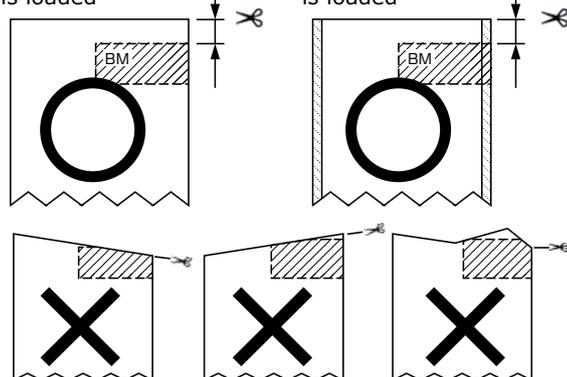
- Standard media and continuous labels (dry edge)



- Standard media (with black marks) and continuous labels (dry edge)

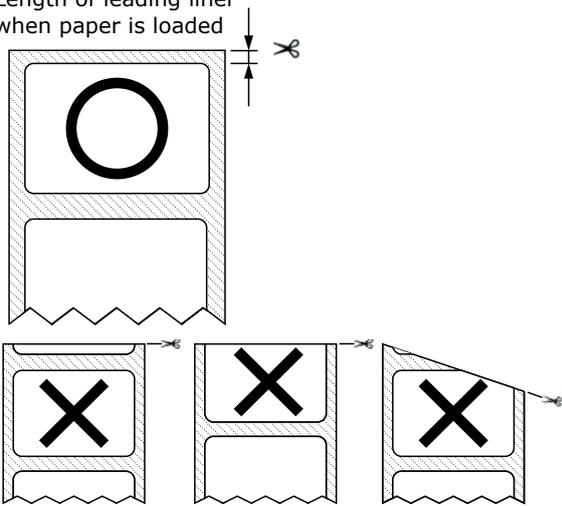
1.2 to 4.0 mm  
(0.0472 to 0.1575 inches)  
Length of leading margin when paper is loaded

1.2 to 4.0 mm  
(0.0472 to 0.1575 inches)  
Length of leading margin when paper is loaded



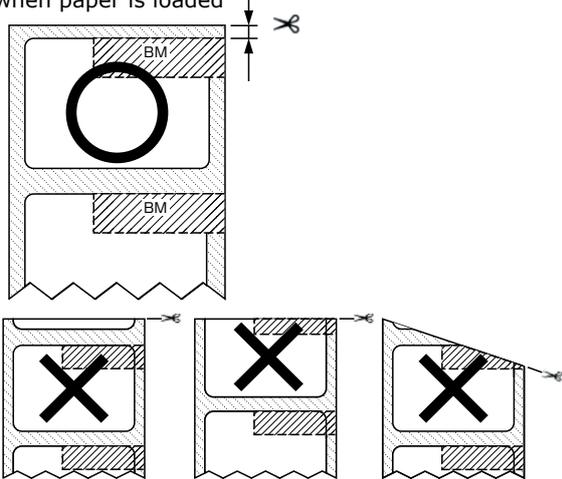
- Die-cut label paper (no black marks)

1.2 to 6.5 mm  
 (0.0472 to 0.2559 inches)  
 Length of leading liner  
 when paper is loaded



- Die-cut label paper (with black marks)

1.2 to 4.0 mm  
 (0.0472 to 0.1575 inches)  
 Length of leading margin  
 when paper is loaded



## ● Loading Media

Load the paper onto the Unwinder. For paper sizes and types that can be loaded on the Unwinder, see “Roll Paper Specifications” (P.8).

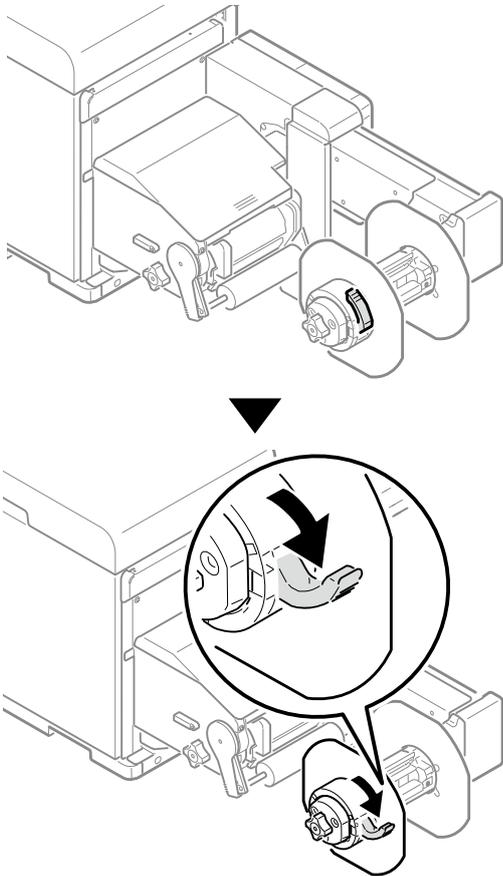
### ! Note

- When setting roll paper, be careful not to drop it. As roll paper is heavy, when you drop it, there is a risk of injury.
- If you drop roll paper, it may roll on the floor and cause injury to the people around.
- To prevent roll paper from dropping, store it horizontally on a desk, etc.
- Do not use any roll paper that is not specified by the Roll Paper Specifications.

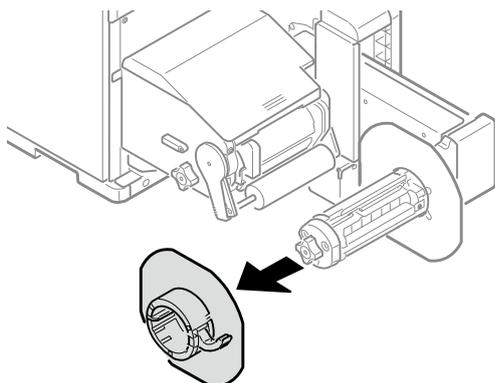
### 📝 Memo

- If the printer is turned OFF, press the <POWER> button to turn it on.

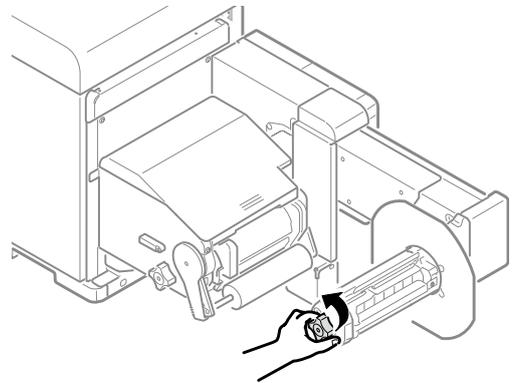
### 1 Open the Flange Locking Lever.



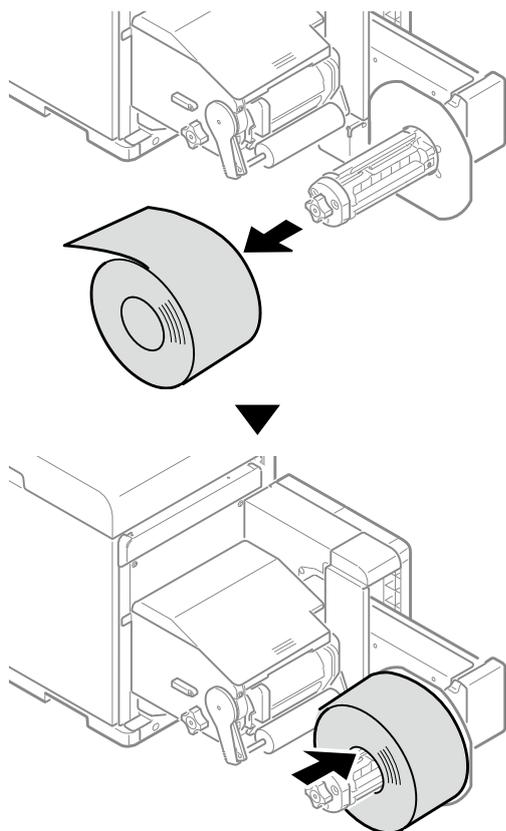
### 2 Remove the flange.



### 3 Rotate the Roll Paper Holder Knob to contract the Roll Paper Holder shaft.



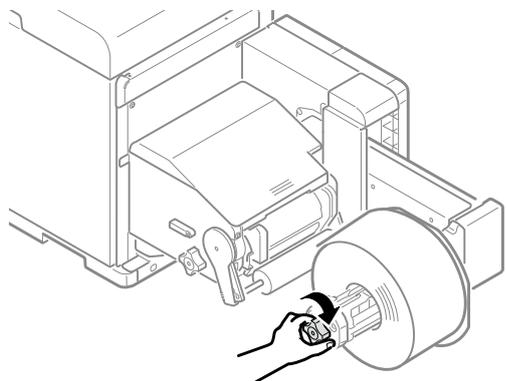
- 4** Slide roll paper onto the Roll Paper Holder shaft as far as it will go.



**Note**

- Make sure to slide the roll paper as far as it will go. Insufficiently sliding the roll paper can adversely affect print position accuracy.
- Take care to avoid pinching your fingers or hands when sliding the roll paper.

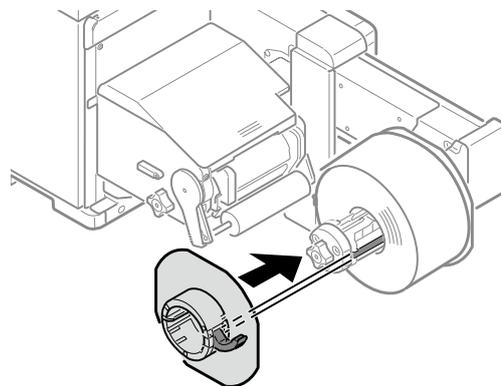
- 5** Rotate the Roll Paper Holder Knob to fix the roll paper core in place.



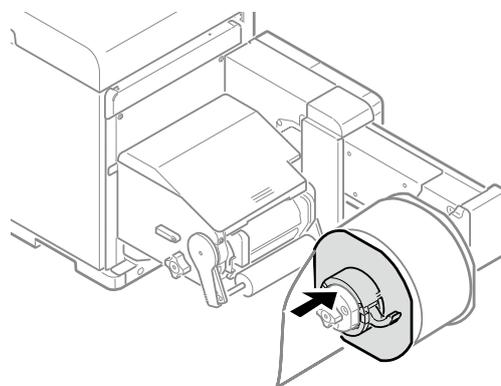
**Note**

- Rotate the Roll Paper Holder Knob until it clicks.

- 6** Aligning the Flange with the Roll Paper Holder shaft as shown in the illustration, attach the Flange.



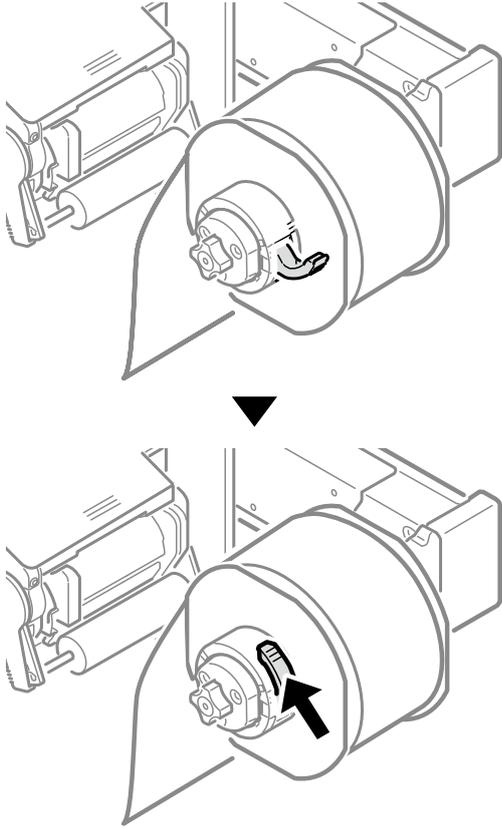
- 7** Slide the Flange as far as it will go in accordance with the roll paper width.



**Note**

- Slide the Flange up to the side of the loaded roll paper.
- Take care to avoid pinching your fingers or hands when attaching the Flange.

## 8 Close the Flange Locking Lever.

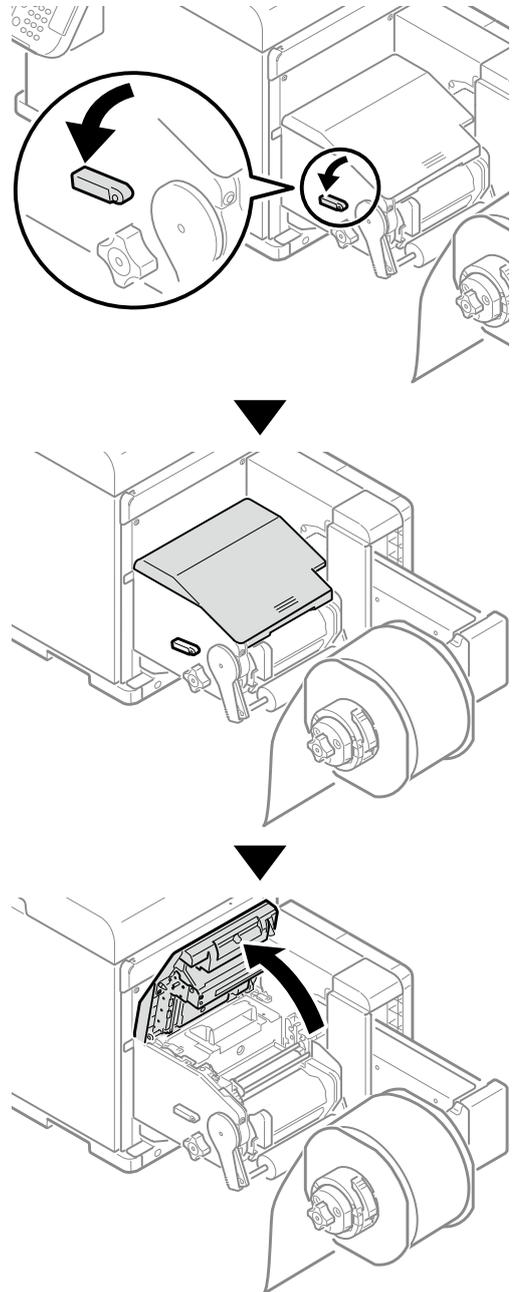


### Note

- After loading roll paper, take care not to rest your body weight on the top of the Roll Paper Holder shaft. Doing so risks causing injury due to the device falling.

## 9 Lower the Unwinder Cover Open Lever to open the Unwinder Cover.

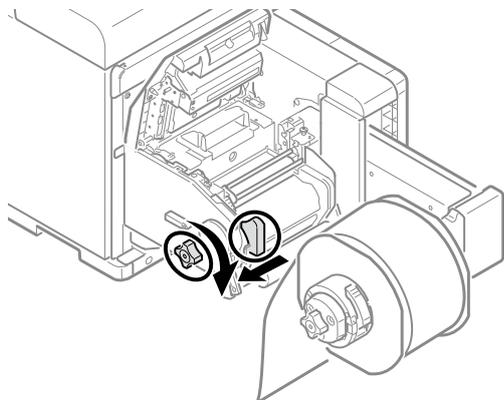
Open the Unwinder Cover manually in the direction indicated by the arrow until it locks.



### Note

- Open the Unwinder Cover until it locks securely.

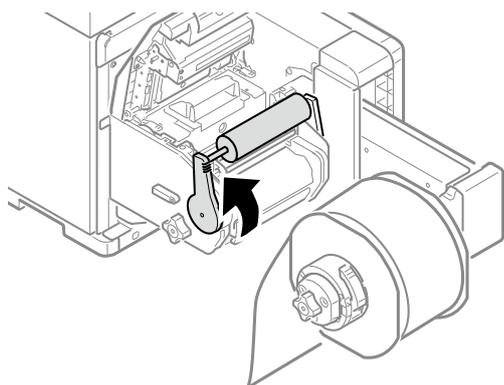
**10** Before loading the paper, rotate the Roll Paper Guide Adjustment Knob clockwise and move the Roll Paper Guide towards you.



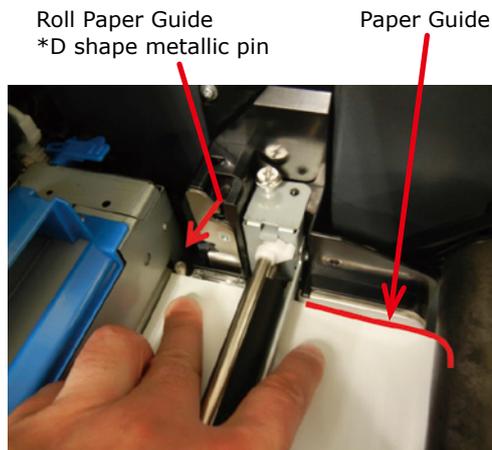
**11** Pull up the F0 Roller Release Lever.



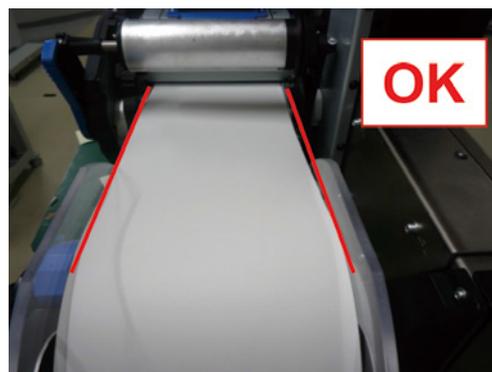
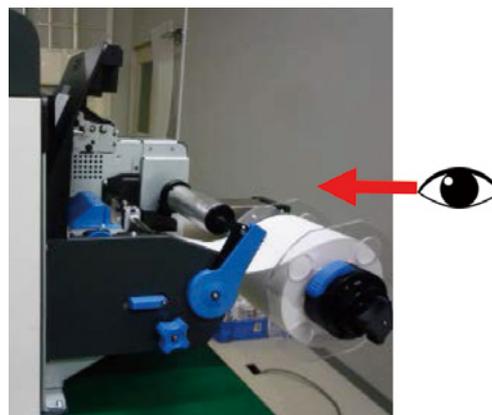
**12** Press the Tension Bar Open Lever upwards until it clicks.



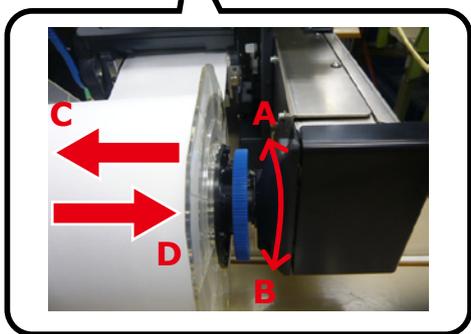
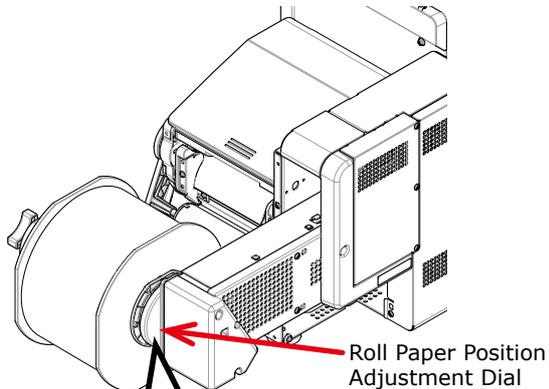
**13** Pass paper below the Tension Bar and F0 Roller, and align the leading edge of the paper with the Roll Paper Guide and Paper Guide.



**14** Check the paper status from the direction indicated by the arrow.



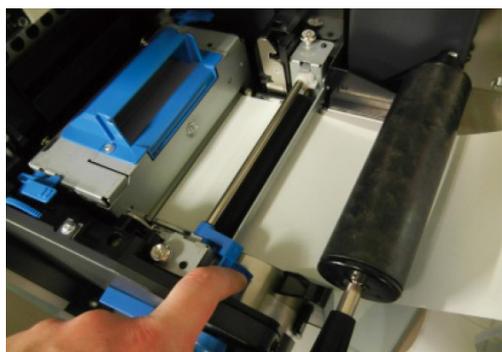
**15** Rotate the Roll Paper Position Adjustment Dial to adjust the paper until it is straight.



**Memo**

- If you rotate the Roll Paper Position Adjustment Dial in direction A→the roll paper moves in the direction C direction B→the roll paper moves in the direction D

**16** Lower the F0 Roller Release Lever to fix the roller in place.



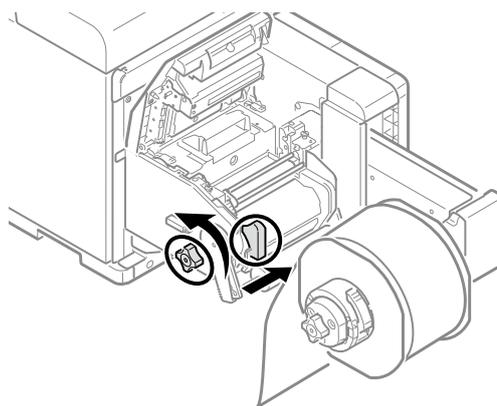
**17** Press down on the Tension Bar Open Lever until it clicks.

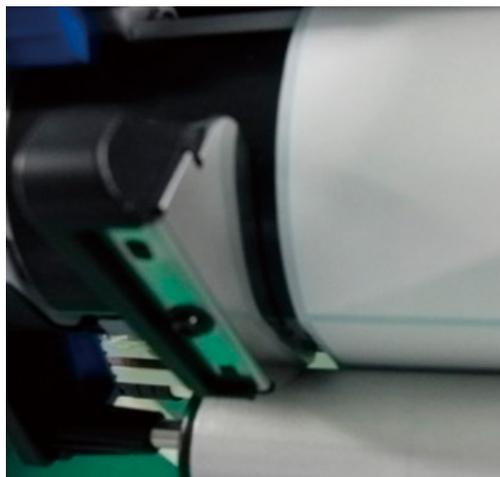


**18** After loading the paper, rotate the Roll Paper Guide Adjustment Knob counterclockwise and align the Roll Paper Guide to the width of the paper.

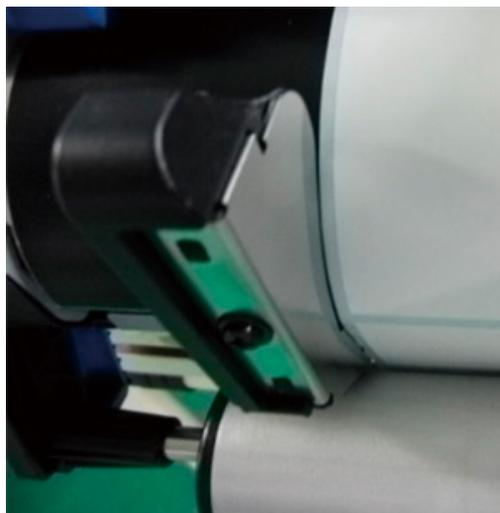
**Note**

- Set the Roll Paper Guide correctly. If the Roll Paper Guide is not set correctly, the width of the paper cannot be detected correctly.
- Be careful that the Roll Paper Guide does not press too strongly on the paper. Doing so could damage the paper.
- Do not allow too much of a gap between the paper and the Roll Paper Guide. Doing so could allow the paper to twist and the print position to shift.
- When setting the Roll Paper Guide to the width of the paper, rotate the Roll Paper Guide Adjustment Knob counterclockwise, as shown in the following diagram, to make the Roll Paper Guide narrower so it matches the width of the paper. If it is too narrow, rotate the Roll Paper Guide Adjustment Knob clockwise to first open the Roll Paper Guide wider, and then make it narrower.





Gap is too large

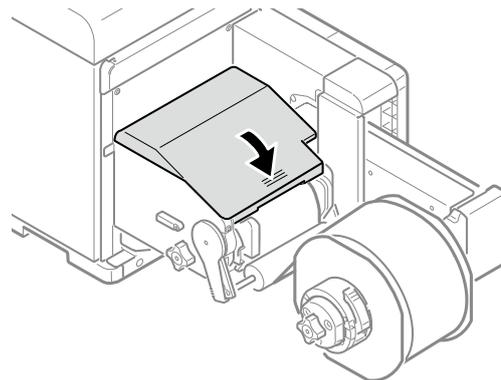


Roll Paper Guide is aligned to width of paper



Roll Paper Guide is too tight

## 19 Close the Unwinder Cover.



### Note

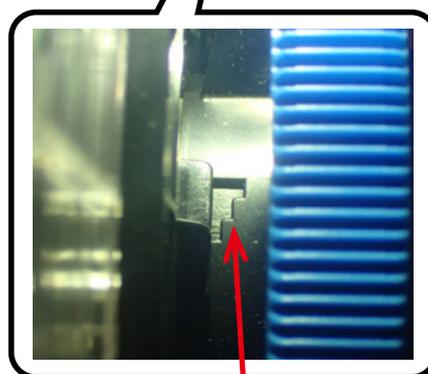
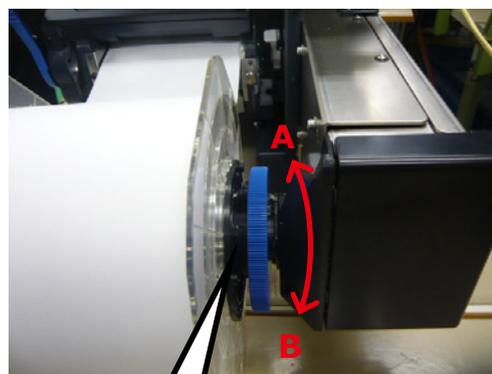
- When closing the Unwinder Cover, there is a risk of pinching your fingers or hands. Press the top of the Unwinder Cover to close it.

This completes setting roll paper.



### Memo

- If, even though the roll paper is set correctly, the paper separates from the Unwinder Paper Guide during printing, rotate the Roll Paper Position Adjustment Dial in the B direction to adjust it so the paper does not separate from the Unwinder Paper Guide. As a guideline, the adjustment should be the same distance that the paper is separated from the Unwinder Paper Guide. Each notch on the adjustment scale at the base of the Roll Paper Position Adjustment Dial is 1 mm.



Adjustment notches

## ● Calibrating the Sensor

### ! Note

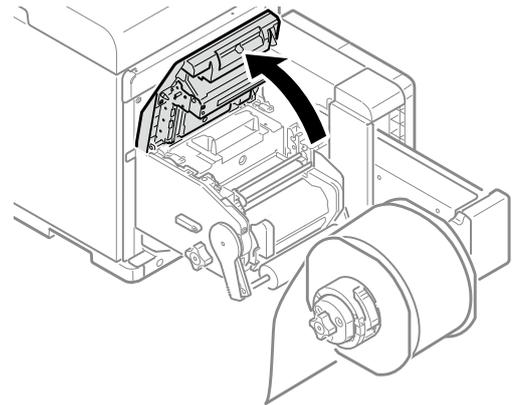
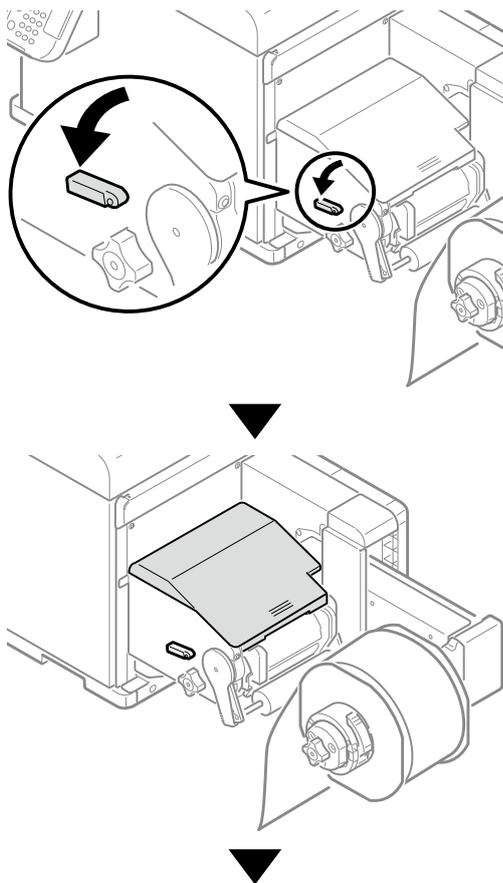
- Check the position of the sensor each time you load paper. Check the position of the sensor in the following cases especially.
  - When you load a different type of paper
  - When you switch the type of sensor from black mark sensor to gap sensor
  - When you switch the type of sensor from gap sensor to black mark sensor
- If the sensor position settings do not match, paper feed jams may occur, you cannot adjust the black mark sensor or the gap sensor, and the skew in the adjusted values may cause the print position to skew.

## Confirming the Sensor Position

### Unwinder

- 1 Lower the Unwinder Cover Open Lever to open the Unwinder Cover.

Open the Unwinder Cover manually in the direction indicated by the arrow until it locks.

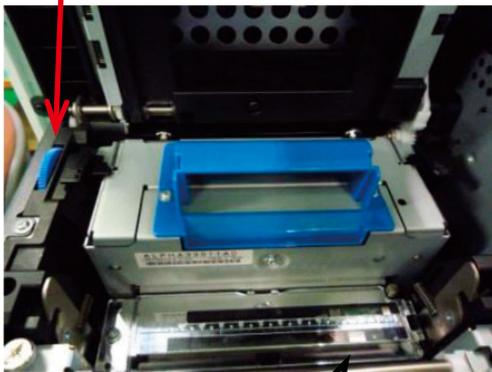


### ! Note

- Open the Unwinder Cover until it locks securely.

## 2 Confirm the sensor position.

Sensor Position Adjustment Dial



Position During Regular Usage  
Factory setting is this position.

10 mm from edge of paper

The "Δ" indicates the black mark sensor position

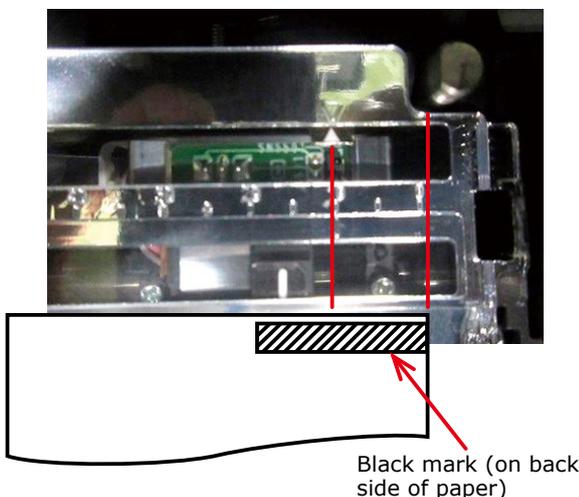
Edge of paper

16.5 mm from edge of paper

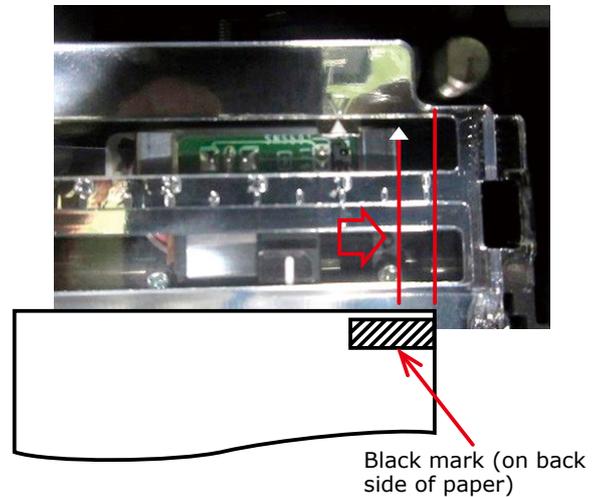
The "|" indicates the gap sensor position

Edge of paper

- (1) Check the black mark sensor position  
Align the paper, and check the actual position of the black mark and the black mark sensor position.

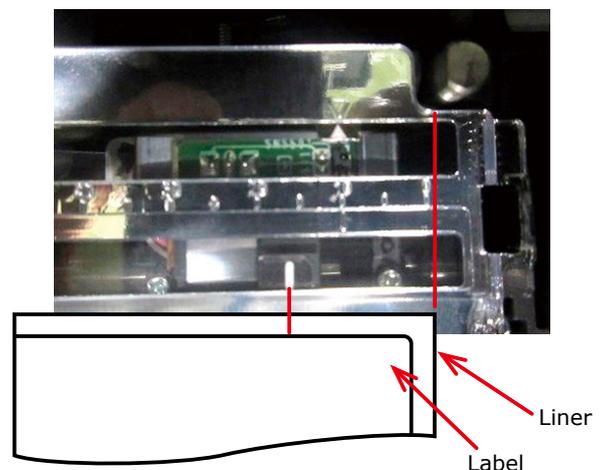


If the position of the black mark and the black mark sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 3).

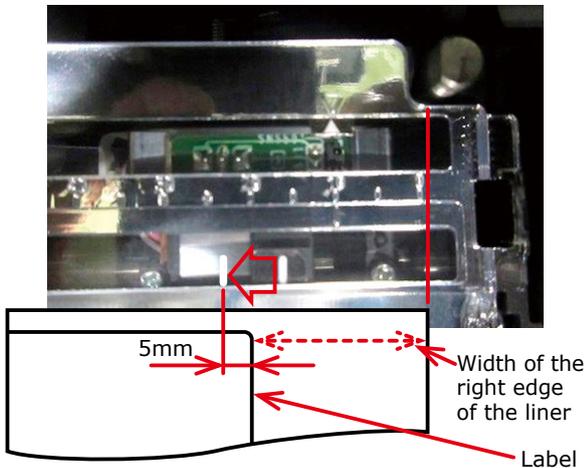


The black mark sensor position is set 10 mm from the edge of the paper.  
If the black mark is 15 mm or more from the edge of the paper, you do not need to adjust it.  
If the black mark is 15 mm or less from the edge of the paper, adjust the position of the Δ so it is in the center of the black mark.

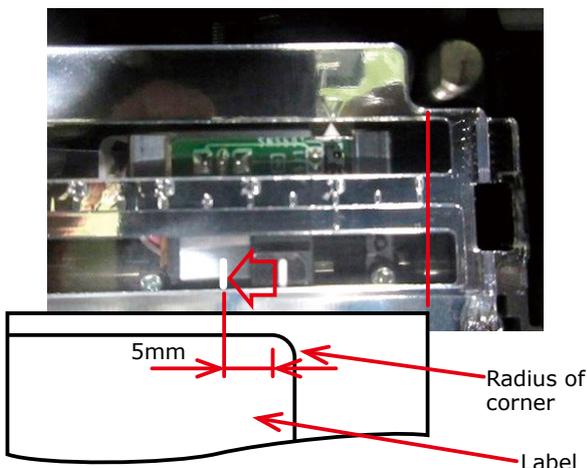
- (2) Check the gap sensor position  
Align the paper, and check the actual position of the label and the gap sensor position.



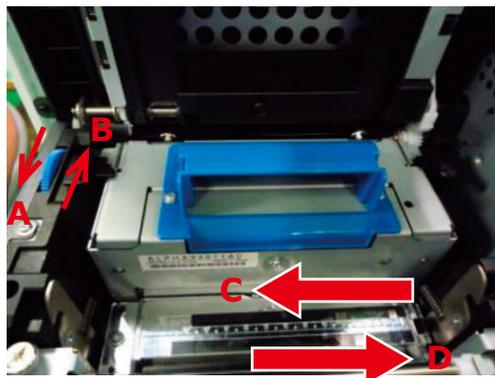
If the position of the label and the gap sensor position do not align in relation to the regular usage position, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 3).



The gap sensor position is set 16.5 mm from the edge of the paper. If the width of the right edge of the liner is 10 mm or less, then adjustments are not necessary. If the width of the right edge of the liner is 10 mm or more, then adjust the gap sensor using the above positions as a rough estimate. If the corners of the label are rounded, then consider the position of the radius of the corner. Refer to the following example of adjusting the position.



### 3 Rotate the Sensor Position Adjustment Dial to adjust the sensor position.

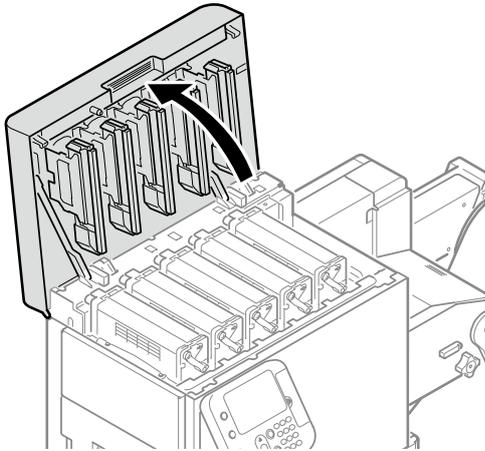


#### Memo

- If you rotate the Sensor Position Adjustment Dial in direction A→the sensor position moves in the direction C direction B→the sensor position moves in the direction D

## Printer

- 1 Grasping the Top Cover Open Lever, open the Top Cover.



- 2 Remove the Print Cartridge Set and the Belt Unit.



Memo

- Refer to "Maintenance Guide" for the procedure to install the print cartridge set and belt unit.

- 3 Confirm the sensor position.

Sensor Position Adjustment Dial



Position During Regular Usage  
Factory setting is this position.

65 mm from edge of paper

58.5 mm from edge of paper

Edge of paper



The "|" indicates the gap sensor position

The "V" indicates the black mark sensor position

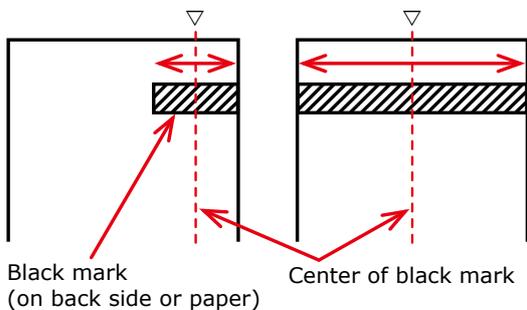
(1) Check the black mark sensor position

Confirm the center of the black mark on the media and the black mark sensor position on the device (number on the ▽ indicator).

If the position of the black mark and the black mark sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 4).

The black mark sensor position is set, at the factory, to 58.5 mm from the right edge of the label liner.

Adjust the position of the "▽" so it is in the center of the black mark of the media you are using.



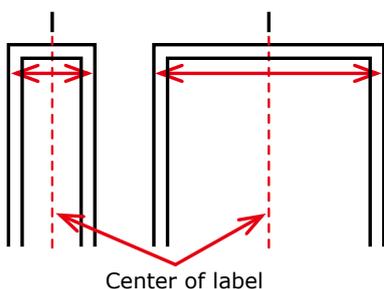
(2) Check the gap sensor position

Confirm the center of the label on the media and the gap sensor position on the device (number on the | indicator).

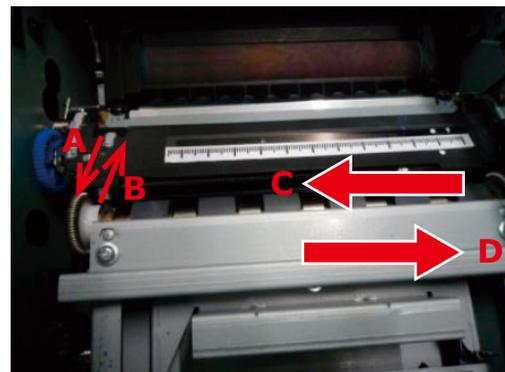
If the position of the label and the gap sensor position do not align, rotate the Sensor Position Adjustment Dial to adjust the position (go to step 4).

The gap sensor position is set, at the factory, to 65 mm from the right edge of the label liner.

Adjust the position of the "| " so it is in the center of the labels of the media you are using.



4 Rotate the Sensor Position Adjustment Dial to adjust the sensor position.



 Memo

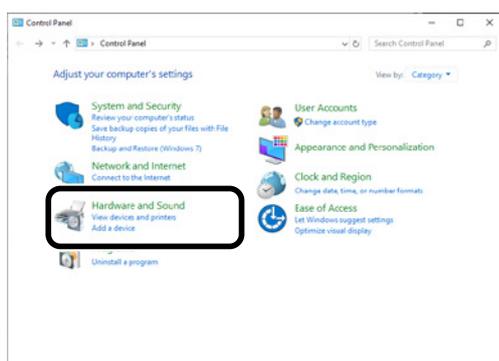
- If you rotate the Sensor Position Adjustment Dial in direction A→the sensor position moves in the direction C  
direction B→the sensor position moves in the direction D

# Sensor Calibration

## ■ When executing from the printer driver

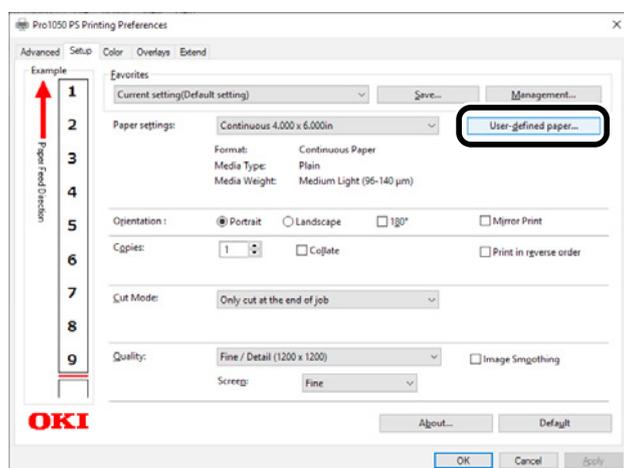
1 Click [Start] and select [Control Panel] in [Windows System].

2 Click [View devices and printers].



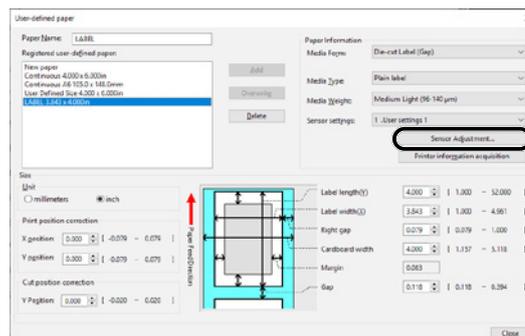
3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

4 On the [Setup] tab, click [User-defined paper].



5 Input information about the paper you want to register. To adjust settings that are already registered, select the names of the paper from the list in [Registered user-defined paper].

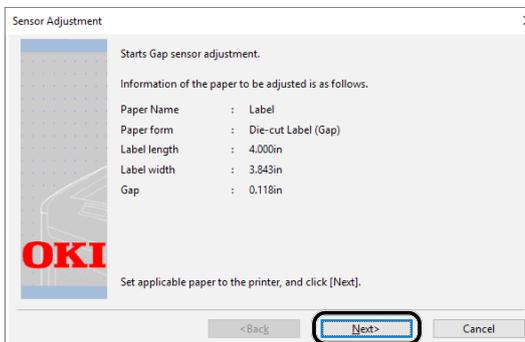
6 Click [Sensor Adjustment].



### Memo

- [Sensor Adjustment] appears if the following conditions are met.
  - The Media Form is one of the following
    - Continuous Paper (Black Mark)
    - Die-cut Label (Gap)
    - Die-cut Label (Black Mark)
    - Continuous Label (Black Mark)
  - The [Ports] of the printer driver is USB or standard TCP/IP port
- Before performing [Sensor Adjustment], make sure that the printer is "online".
- If [Sensor Adjustment] does not appear, advance to step 12 of this procedure.

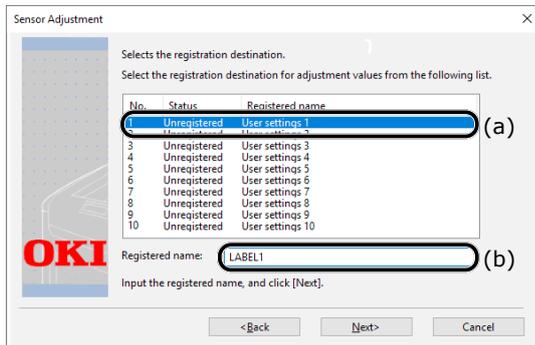
7 Click [Next].



### Memo

- Before performing the next steps of this procedure, make sure that paper is loaded.
- If there are no paper size settings configured on the control panel, it may cause a paper size mismatch on the device. Pressing the <OK> button on the control panel overwrites the device paper size setting with the paper size setting in the printer driver.

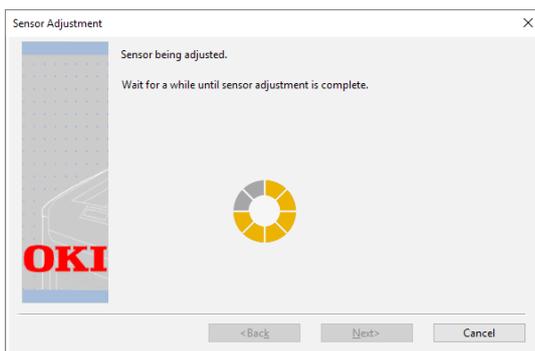
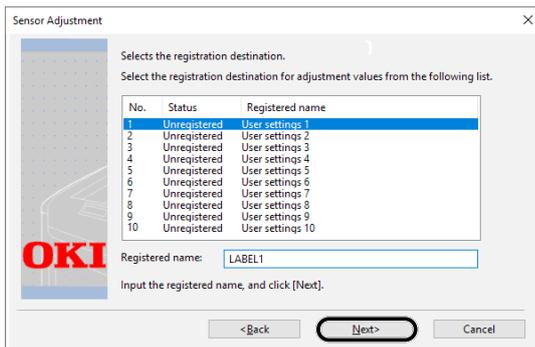
- 8 Select a registration location (a) for the adjustment, and then enter a registration name (b).



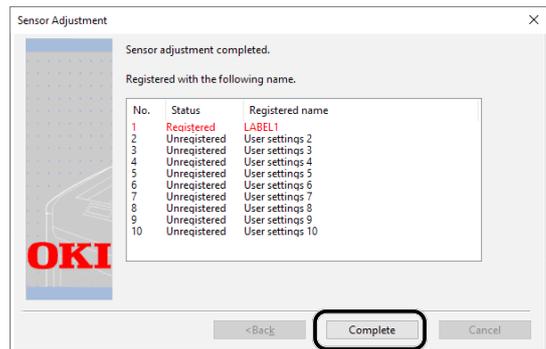
Memo

- You can enter up to eight alphanumeric English characters for the registration name.

- 9 Click [Next]. This starts the sensor adjustment and displays a wait message.



- 10 When the completion screen appears, click [Complete].



Memo

- The results of adjusting the sensor are registered on the printer. In [Sensor settings] in [User-defined paper] in the printer driver, you can specify the number registered in the printer for the adjustment results and whether to apply it when printing. By standardizing the registration numbers of the sensor adjustment results, you can get the same print results by specifying the same number in [Sensor settings] in the printer driver for any printer. This is useful when printing on the same media on multiple printers.

- 11 To register new settings, click [Add] or click [Overwrite] to select paper that is already registered.

- 12 Click [OK] or [Close] as many times as necessary to exit the "Printing preferences" screen.

- 13 Open the file to be printed.

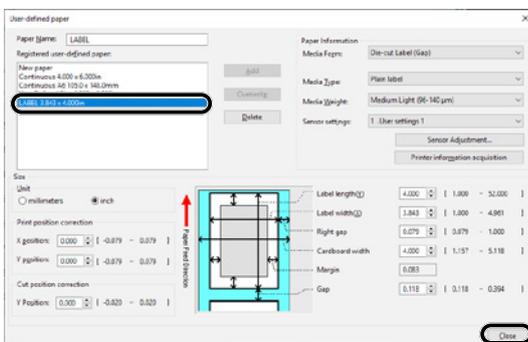
- 14 Specify a registered paper size, and then print.

# ● Detecting the Interval between Pages

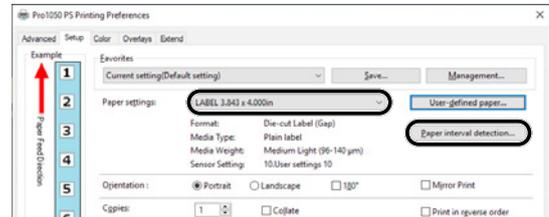
## ■ When executing from the printer driver

You can use the following procedure, from the printer driver, to register the paper gap and black mark interval on the device. Registering these settings improves your printing results. However, it does waste approx. 10 sheets of paper.

- 1 Click [Start] and select [Control Panel] in [Windows System].
- 2 Click [View devices and printers].
- 3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].
- 4 On the [Setup] tab, click [User-defined paper].
- 5 After confirming that the paper name you entered in the "Paper Name" box is shown under [Registered user-defined paper], click [Close].



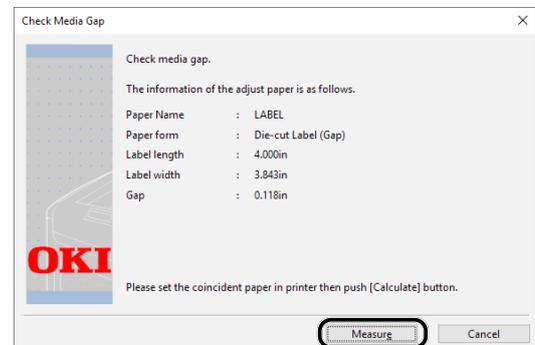
- 6 For [Paper settings], select the paper settings you registered, and then click [Paper interval detection].



### Memo

- [Paper interval detection] is displayed if the following conditions are met.
  - The Media Form is one of the following: Continuous Paper (Black Mark), Die-cut Label (Gap), Die-cut Label (Black Mark), Continuous Label (Black Mark)
  - The [Ports] of the printer driver is USB or standard TCP/IP port
- If [Paper interval detection] does not appear, advance to step 8 of this procedure.

- 7 Confirm the displayed paper information, and then click [Measure].



This starts checking the media pitch and closes the dialog box.

### Memo

- If you change to another type of paper, you should execute this paper interval detection again.

- 8 Click [OK] as many times as necessary to exit the "Printing preferences" screen.

- 9 Open the file to be printed.

- 10 Specify a registered paper size, and then print.

# ● Printing

After loading the paper, use the computer to open the file you want to print. Next, use the printer driver to select the [Paper Size] and [Paper Weight], and then print.

## ● Memo

- When printing on paper with black marks or die-cut labels for the first time, execute [Sensor Adjustment] before printing.
- When reprinting after an error occurs, if Cut Mode is set to [Cut by collation] or [To specify the number of pages per cut] the media may not be cut in the position you expect.  
If you want to align the cut positions, temporarily cancel printing, and then send the print data starting from the page you want to reprint.

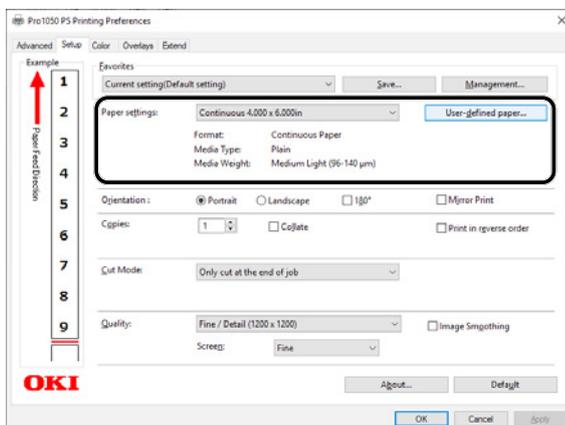
## ● Reference

- For detailed explanations of the printer driver setup items, see "Online Help".
- For information about how to load paper, see "Loading Media" (P.20).

## ■ Windows PS Printer Driver

Here, we will show how to print an open WordPad file as an example.

- 1 Select [Print] in the [File] menu.
- 2 Select [Pro1050 PS], and then click [Preferences].
- 3 On the [Setup] tab, configure [Paper settings].



## ● Memo

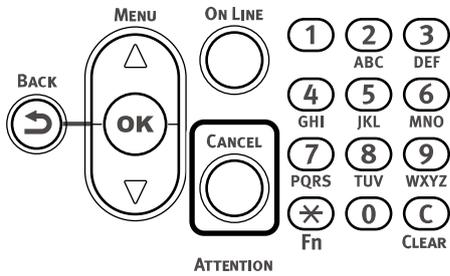
- Configure the [Orientation] or [Cut Mode] settings on the [Setup] tab as required.

- 4 When the settings are complete, click [OK] in the "Setup" screen.
- 5 Click [Print] in the "Print" screen to print.

## ● Canceling a Print Job

Use the procedure below to cancel a print job from the printer's control panel.

- 1 On the control panel, press the <CANCEL> button.



- 2 If a verification message appears, select [Yes], and then press the <OK> button.



# 3

## Print Function Settings

<b>Printer Driver Functions Table.....</b>	<b>38</b>
<b>Saving Toner When Printing .....</b>	<b>41</b>
<b>Fine Quality Printing.....</b>	<b>42</b>
<b>Other Print Functions .....</b>	<b>45</b>
<b>Deleting or Updating a Printer Driver .....</b>	<b>53</b>



- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- For detailed explanations of the printer driver setup items, see "Online Help".
- Due to printer driver version upgrades, actual operations may be different from the descriptions in this manual.

# ● Printer Driver Functions Table

This section explains the convenient functions when printing from a PC.

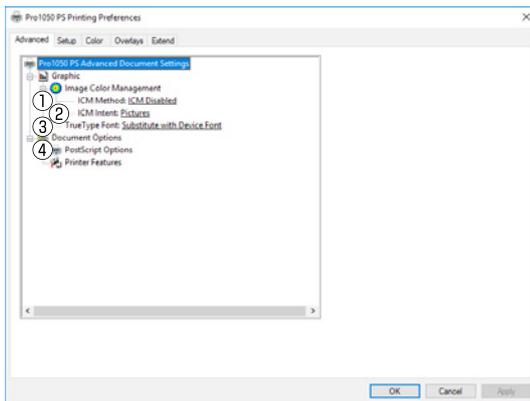


- For detailed explanations of the printer driver setup items, see "Online Help".

## Explanation of Functions

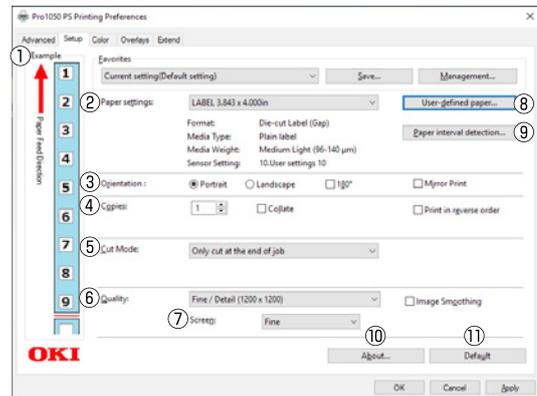
### Windows PS Printer Driver Functions

#### [Advanced] Tab



Item	Description
① ICM Method	Specifies the ICM process.
② ICM Intent	Specifies the intent of the ICM. Converts printer colors to be appropriate for the specified intent.
③ TrueType Font	Specifies whether to use the device fonts, if available, or to download fonts included in the print data as software fonts.
④ PostScript Options	Specifies the various settings for creating PostScript data.

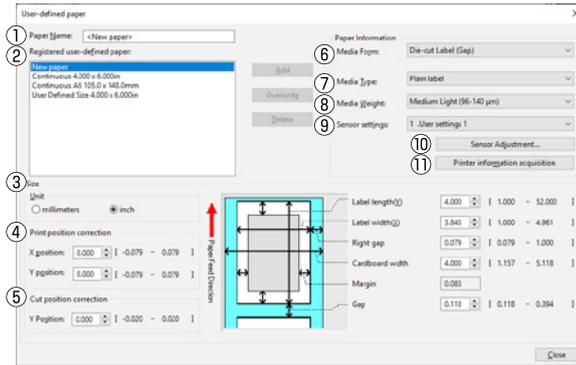
#### [Setup] Tab



Item	Description
① Example	Shows what printing results will be based on current settings. This example is just an approximation and does not indicate the exact actual number of print pages and cut positions.
② Paper settings	Specifies, from among registered paper settings, which one should be applied for printing.
③ Orientation	Specifies the print orientation.
④ Copies*	Specifies the quantity to be printed.
⑤ Cut Mode	Specifies the timing to cut roll paper when cutting and printing on it.
⑥ Quality	Specifies the resolution during printing.
⑦ Screen	Specifies the halftoning available with the device.
⑧ User-defined paper	Click when using the driver to register paper settings to be used for printing.
⑨ Paper interval detection	Before printing to black mark or die-cut labels, click to execute learning on the device to improve the print position accuracy before starting to print. Note that executing this function will cause some paper to be used.
⑩ About	Displays the printer driver version information.
⑪ Default	Restores default settings.

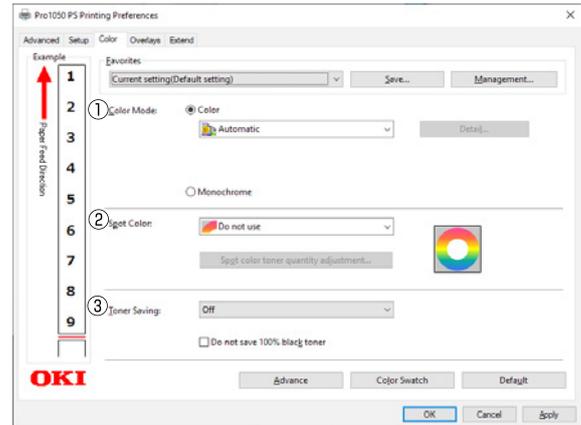
\*: When paper is selected that has a setting shorter than 101.6 mm (4 inches) for paper length, label length, or black mark interval for [Paper settings], then there is a limit to the number of copies that can be input.

[User-defined paper]



Item	Description
① Paper Name	Enter the name of the paper settings you want to register.
② Registered user-defined paper	Shows a list of paper settings that have been registered.
③ Size	Specifies either millimeters or inches as the unit for input values.
④ Print position correction	Adjusts the print start position on the paper edge.
⑤ Cut position correction	Adjusts the cut position when cutting and printing roll paper.
⑥ Media Form	Specifies the paper setting type to be registered. Size input items change in accordance with this setting.
⑦ Media Type	Specifies the paper type.
⑧ Media Weight	Specifies the paper thickness.
⑨ Sensor settings	Specifies the settings, from among those registered on the device, to be used for printing.
⑩ Sensor Adjustment	Click to calibrate the gap of black mark or die-cut labels, and register the results as device sensor settings. This button is not displayed for media forms that do not require calibration.
⑪ Printer information acquisition	Obtains, from devices, the names of settings registered as sensor settings and the names of user types registered as paper types, and reflects them in the sensor settings and paper type list on the printer driver.

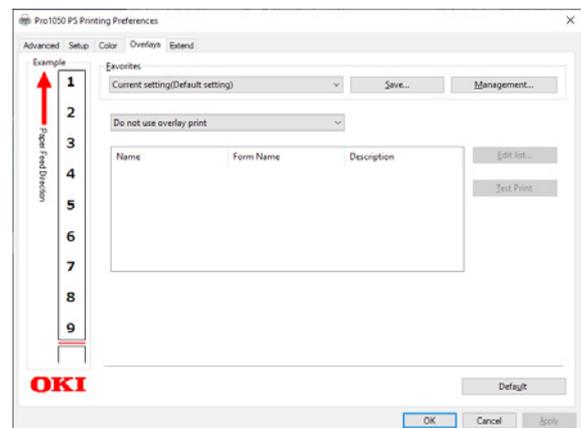
[Color] Tab



Item	Description
① Color Mode	Selects either color printing or monochrome printing. When you select [Color], and then select [Simple Adjustment] or [Graphic Pro], clicking [Detail] displays the [Simple Adjustment Details] dialog box, which can be used to configure detailed color printing settings.
② Spot Color*	Specifies how white toner should be used for printing.
③ Toner Saving	Specifies the print density when economizing on toner.

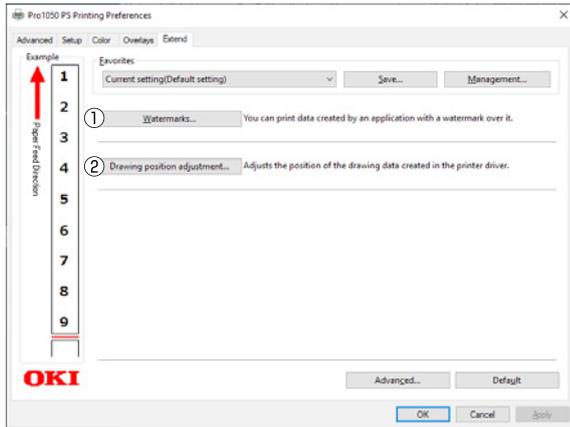
\*: This item available only on the Pro1050

[Overlays] Tab



Item	Description
Overlays	Specifies whether or not a form should be overlaid on the document to be printed, or whether the document should be registered as a new form in the device.

[Extend] Tab

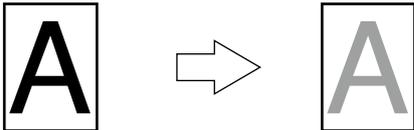


	Item	Description
①	Watermarks	Sets when implementing stamp printing.
②	Drawing position adjustment	Specify if you want to adjust the position of image data before printing.

## ● Saving Toner When Printing

### Saving Toner When Printing (Toner Save Mode)

You can print by economizing the toner consumption amount by reducing the page print density. Separately enable or disable the toner economy mode for 100% black.



#### Memo

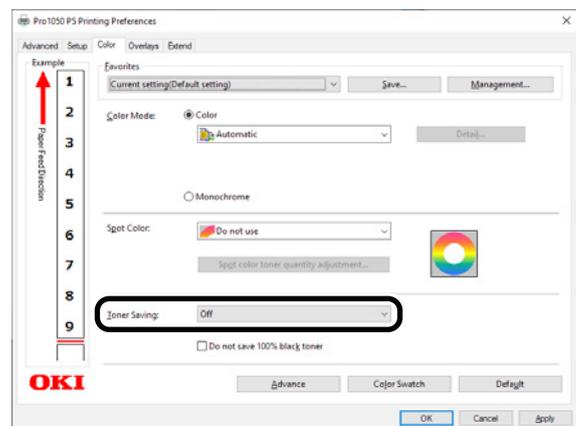
- You can suppress the quantity of toner used by selecting one of the following five patterns as necessary to reduce toner density.
  - Printer setting: Follows the printer's setup.
  - Off: Prints using regular density without economizing the toner.
  - Save Level Low: Prints using medium light toner.
  - Save Level Middle: Prints using light toner.
  - Save Level High: Prints using considerably light toner.
- [Toner Saving] is enabled only if the print quality is specified as [Normal].
- The settings on the printer can be changed from [Admin Setup] > [Print Setup] > [Toner Save]. However, the printer driver settings are given priority.

#### Note

- Toner save mode is not compatible with Spot Color printing.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, use [Toner Saving] to select a toner save quantity.



- 5 Print.

# Fine Quality Printing

## Changing Print Quality (Resolution)

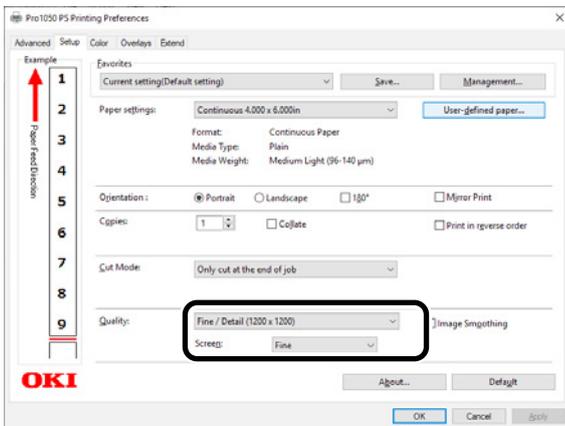
Set [Quality] by aligning to the environment in which it is used.



- Selecting [Fine/Detail(1200x1200 dpi)] prints at the highest quality available with the printer.

### Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Setup] tab, change the [Quality] setting.



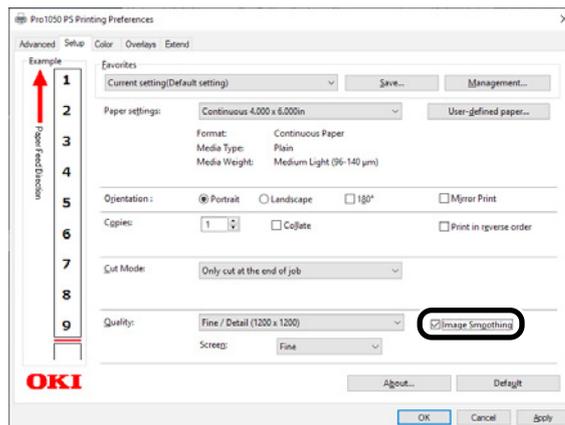
- 5 Print.

## Printing Sharper Photos (Image Smoothing)

You can reduce "jaggies" and "banding" (uneven gradation).

### Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Setup] tab, select [Image Smoothing] in the [Quality] section, and then click [OK].



- 5 Print.

## Adjusting Fine Lines

You can prevent misaligned lines being printed when ultra-fine lines are specified from the application.

This function is normally ON.

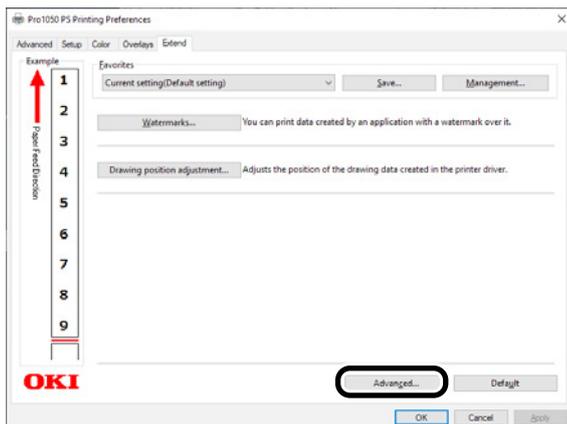


Memo

- Depending on the application, bar code and other intervals will narrow. In this case, turn OFF the function.

### Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Extend] tab, click [Advanced].



- 5 Select the [Adjust ultra fine lines] check box, and then click [OK].



- 6 Print.

## Using Computer Fonts

You can output TrueType fonts as they appear on the screen.



- Print time may be longer.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Advanced] tab, click [TrueType Font], and then select [Download as Softfont].
- 5 Print.

## ● Other Print Functions

### Specifying the Page Order

Extracts by page order when printing documents with multiple pages.

There are two methods.

- Printing documents in page order.
- Printing documents in reverse page order.



Note

- If you can specify printing in reverse page order in the print dialog box of your application, such as in Adobe Acrobat or Adobe Reader, then set reverse page order printing in the application, rather than in the PS printer driver.

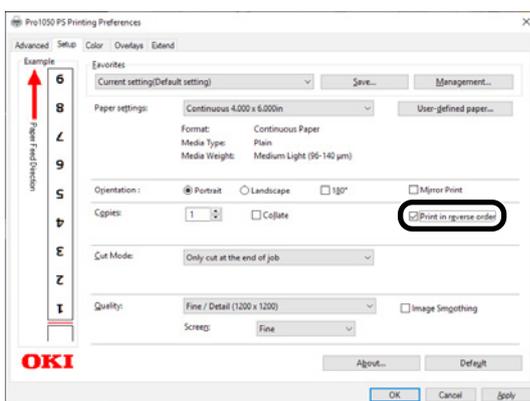
#### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Setup] tab, change the [Print in reverse order] setting.



Memo

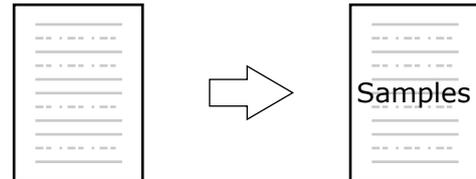
- Clear the [Print in reverse order] check box to print documents in page order.
- Select the [Print in reverse order] check box to print documents in reverse page order.



- 5 Print.

### Overlaying Stamps for Printing (Watermarks)

The details to be printed from the application can be independently printed overlaying [Samples], [Confidential], etc.

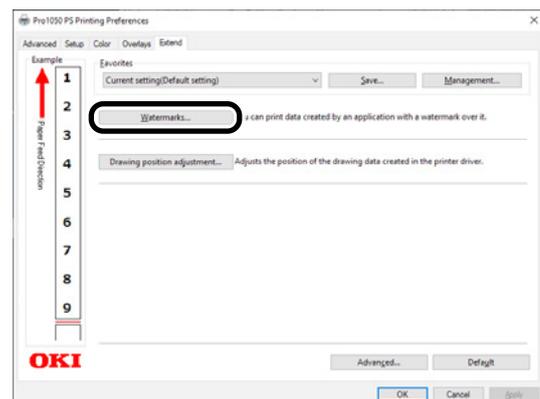


Note

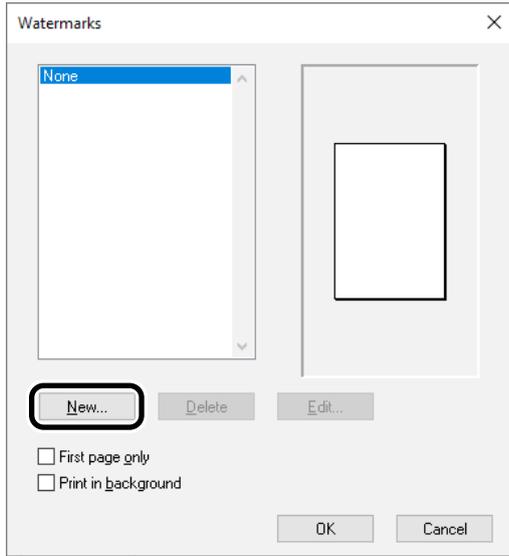
- This function cannot be used if the paper length, label length, or black mark interval for a single sheet is less than 4 inches.

#### ■ Windows PS Printer Driver

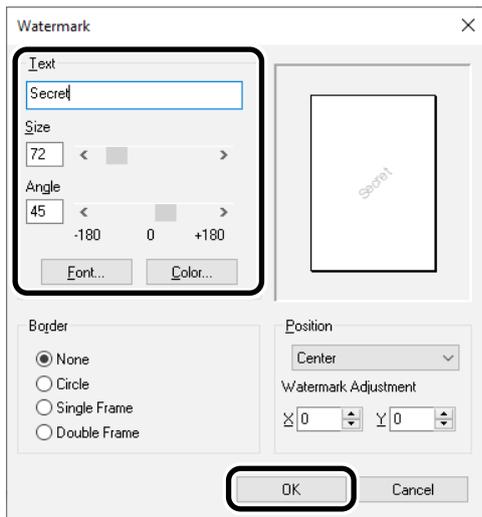
- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Extend] tab, click [Watermarks].



**5** Click [New].



**6** On the “Watermarks” screen, enter text into [Text], and configure [Size] and other settings.



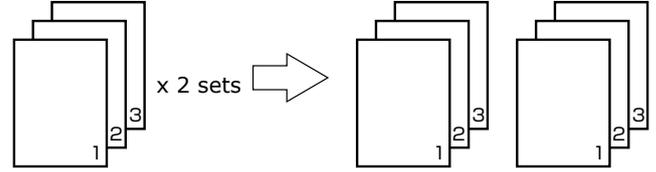
**7** Click [OK].

**8** Print.

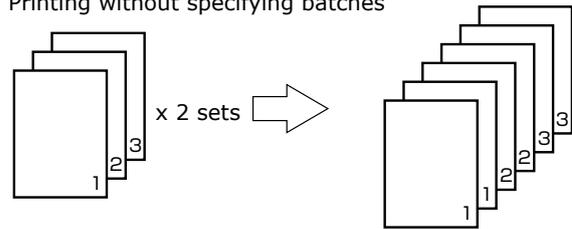
## Collating Printed Output (Sorted Printing)

You can store print jobs in the device memory and collate the printing.

Printing by specifying batches



Printing without specifying batches

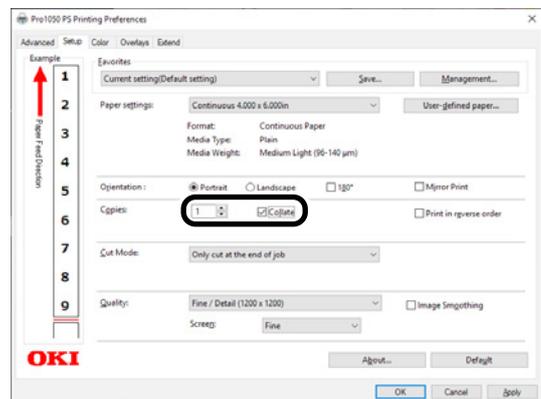


**Note**

- Not usable with some applications.

### ■ Windows PS Printer Driver

- 1** Open the file to be printed.
- 2** Select [Print] in the [File] menu.
- 3** Select [Pro1050 PS], and then click [Preferences].
- 4** On the [Setup] tab, enter a value for [Copies], and then select the [Collate] check box.



**Note**

- Turn off the application’s collated printing function.

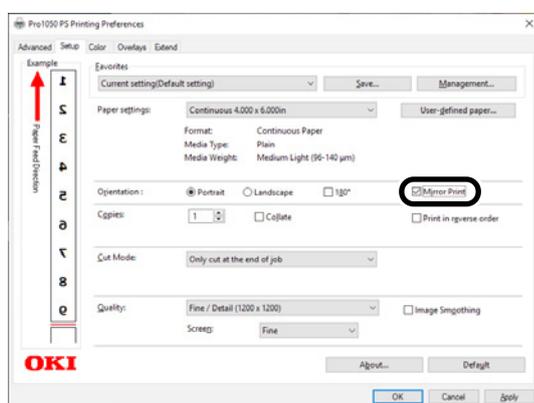
**5** Print.

## Printing a Mirror Image

Print using mirror print when you want to print image to appear normal when the page is viewed from the back.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Setup] tab, select the [Mirror Print] check box.



- 5 Print.

## Printing Registered Forms (Print Overlay)

You can register forms, logos, etc., as forms to the device, and overlay for printing.



### Note

- This function cannot be used if the paper length, label length, or black mark interval for a single sheet is less than 4 inches.

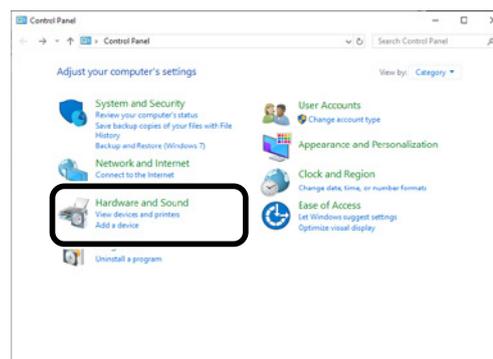


### Memo

- To print an overlay, you need to create a form and register it in advance. It is possible to specify a maximum of four forms in one group. Forms are overlaid and printed in the order they are registered. That is to say, the last form you register is printed on top.

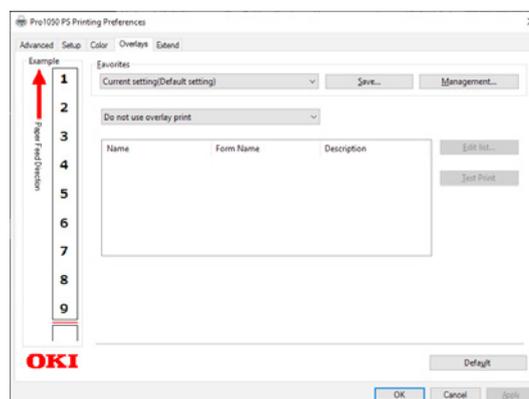
### ■ Windows PS Printer Driver

- 1 Click [Start] and select [Control Panel] in [Windows System].
- 2 Click [View devices and printers].

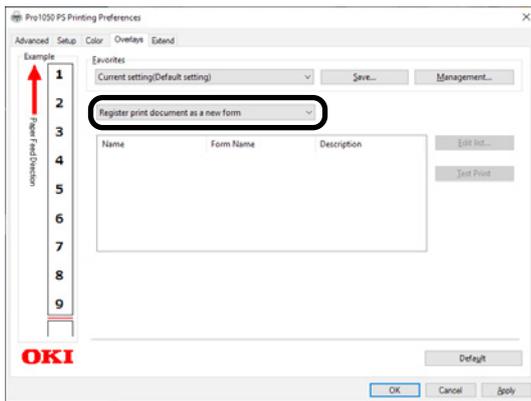


- 3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

- 4 Click the [Overlays] tab.



**5** On the [Overlays] tab, select [Register print document as a new form].

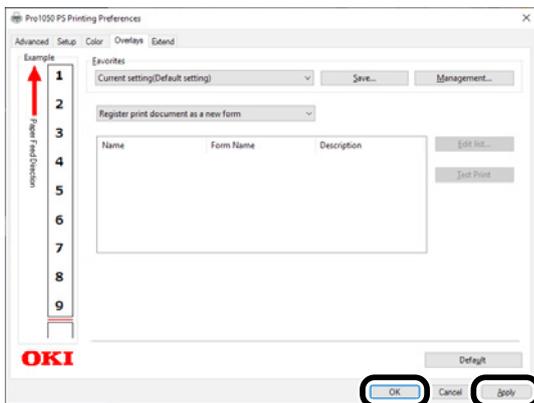


**Memo**

- If the form you want to print is already registered to the device, you do not need to do steps 5 through 10. Advance to step 11 of this procedure.

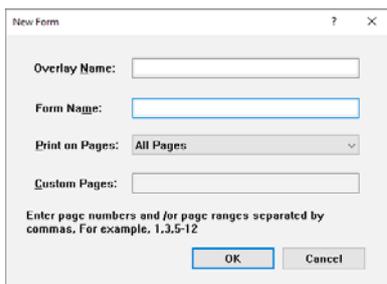
**6** Click [OK] to close the [Information] dialog box.

**7** Click [Apply] > [OK] to close the "Printing Preferences" screen.

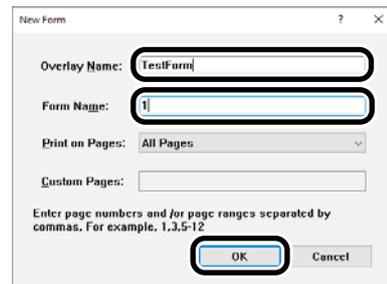


**8** From the application, print the image you want to register as a form.

**9** Confirm that the "New Form" screen appears.

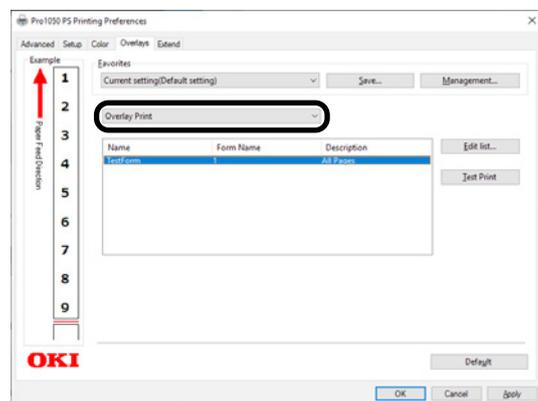


**10** Input the [Overlay Name] and [Form Name], and then click [OK].

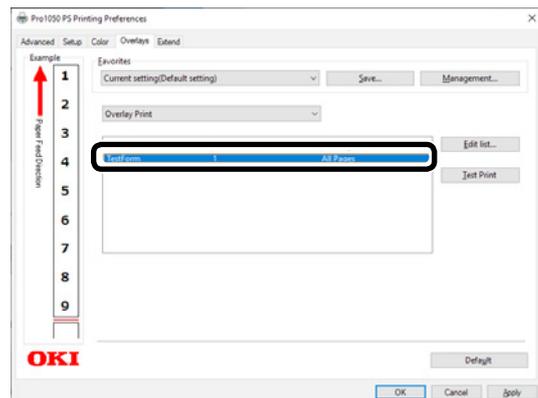


**11** The form is sent to the device and registered with the specified form name.

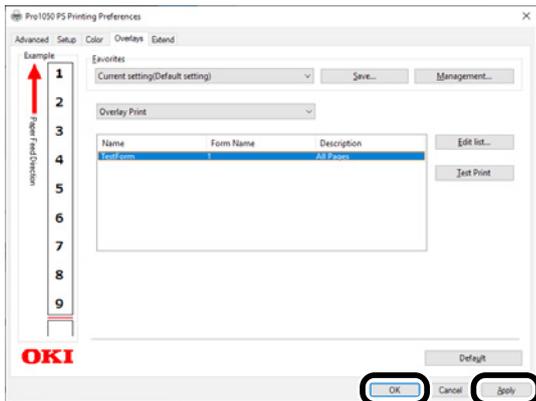
**12** On the [Overlays] tab, select [Overlay Print].



**13** Select the forms you want to use for overlay printing.



**14** Perform the following operation to close the "Printing Preferences" screen: [Apply] > [OK].



**15** Print from the application.

## Outputting to a File Without Printing

You can write and save to a file without printing the print data.

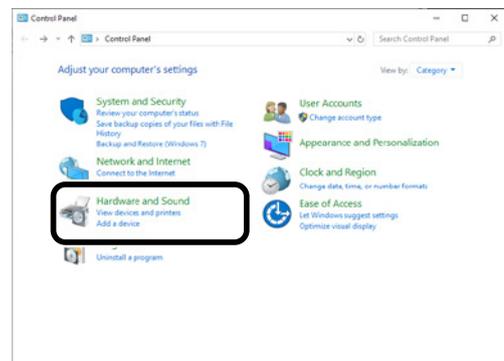


**Note**

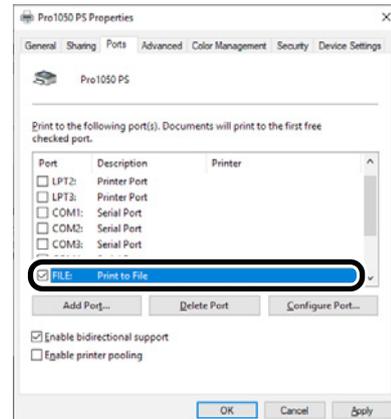
- PC administrator privileges are required.

### ■ Windows PS Printer Driver

- 1 Click [Start] and select [Control Panel] in [Windows System].
- 2 Click [View devices and printers].



- 3 Right-click the [Pro1050 PS] icon, and then select [Printer Properties].
- 4 Select the [Ports] tab.
- 5 In the ports list, select [FILE:], and then click [OK].



- 6 Print.
- 7 Enter the file name, and then click [OK].

## Saving Printer Driver Setups

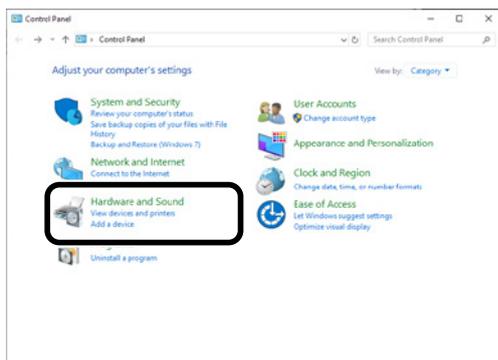
You can save the details set using the printer drivers.

If you save the changes to the settings for multiple locations, then the next and following times you change the settings, all you have to do is specify the driver settings so that those settings in the multiple locations are automatically changed to the settings that you saved.

### Save a Setup

**1** Click [Start] and select [Control Panel] in [Windows System].

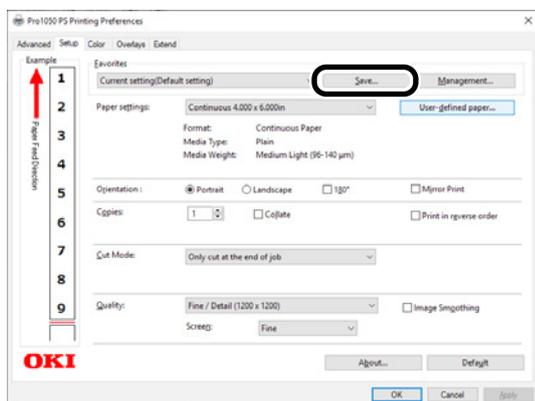
**2** Click [View devices and printers].



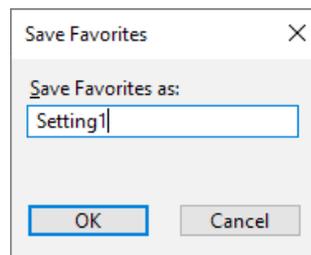
**3** Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

**4** Change the settings to create the setup you want to save.

**5** On the [Setup] tab, click [Save].



**6** Enter the setting name into [Save Favorites as], and then click [OK].



**7** Click [OK] to close the "Printing Preferences" screen.

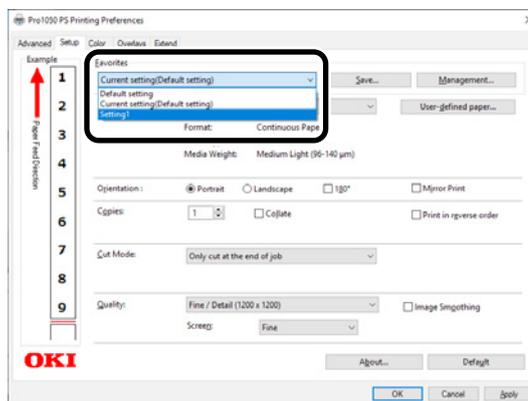
### Recall a Saved Setup

**1** Open the file to be printed.

**2** On the [File] menu, select [Print].

**3** Select [Pro1050 PS], and then click [Preferences].

**4** On the [Setup] tab, configure [Favorites].

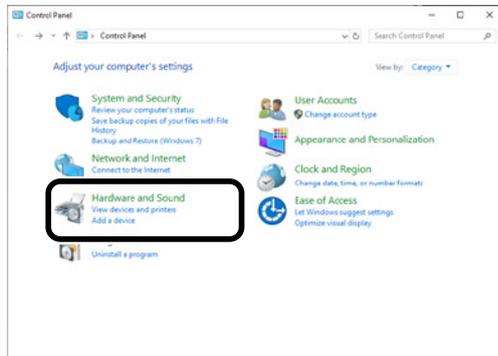


**5** Print.

## Delete a Saved Setup

1 Click [Start] and select [Control Panel] in [Windows System].

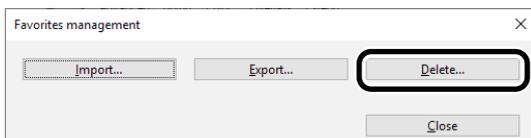
2 Click [View devices and printers].



3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

4 On the [Setup] tab, click [Management].

5 Click [Delete].



6 Select the setup you want to delete, and then click [Delete].

7 Click [Yes].

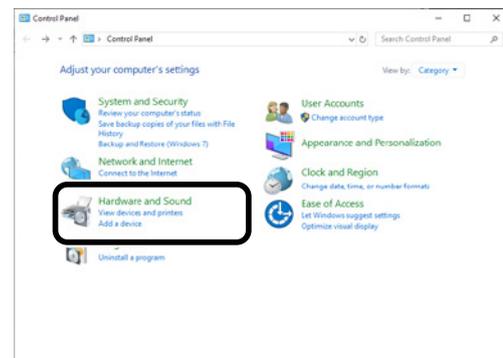
## Importing/Exporting a Printer Driver Print Setup

You can convert printer driver print setup information to a file, and then export/import the file. The file extension for exporting/importing is ".xmn".

### Export a Setup

1 Click [Start] and select [Control Panel] in [Windows System].

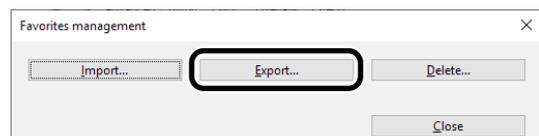
2 Click [View devices and printers].



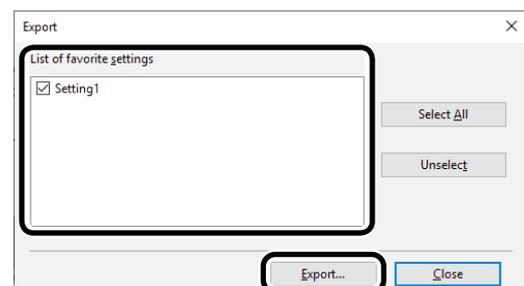
3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

4 On the [Setup] tab, click [Management].

5 Click [Export].



6 In the [List of favorite settings] on the "Export" screen, select the checkbox next to the setup you want to export, and then click [Export].

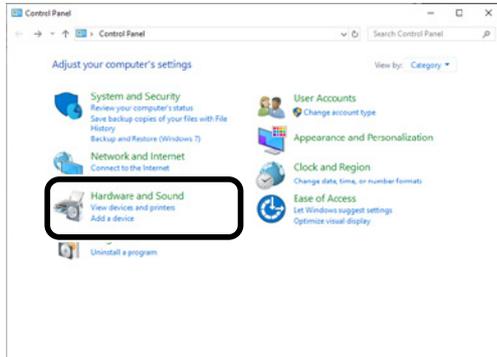


7 Enter a file name, specify where to save it, and then click [Save].

## Import a Setup

1 Click [Start] and select [Control Panel] in [Windows System].

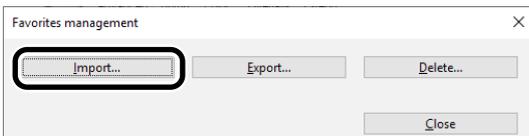
2 Click [View devices and printers].



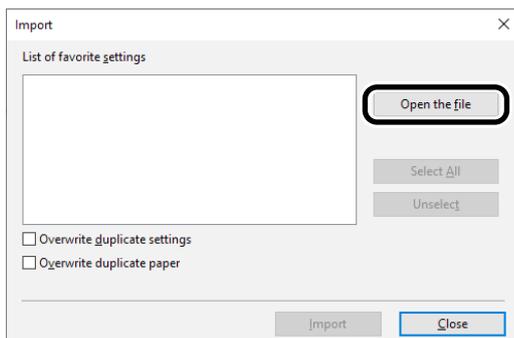
3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

4 On the [Setup] tab, click [Management].

5 Click [Import].



6 On the "Import" screen, click [Open the file].



7 Specify the file you want to import, and then click [Open].

8 Check the names of the settings in the [List of favorite settings], and then click [Import].

9 When the message "Imported successfully." appears, click [OK].

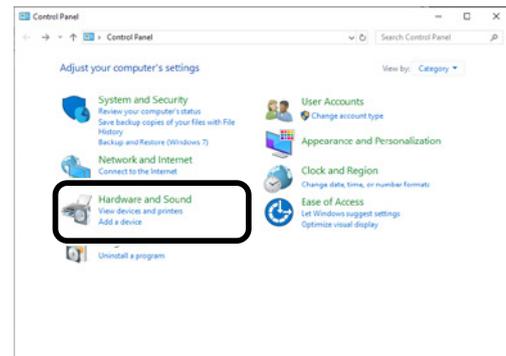
## Changing Default Printer Driver Settings

It is convenient to set frequently used settings as the default settings.

### ■ Windows PS Printer Driver

1 Click [Start] and select [Control Panel] in [Windows System].

2 Click [View devices and printers].



3 Right-click the [Pro1050 PS] icon, and then select [Printing preferences].

4 Change the various settings, and then click [OK].

# ● Deleting or Updating a Printer Driver

## Deleting a Printer Driver

### ■ Windows PS Printer Driver

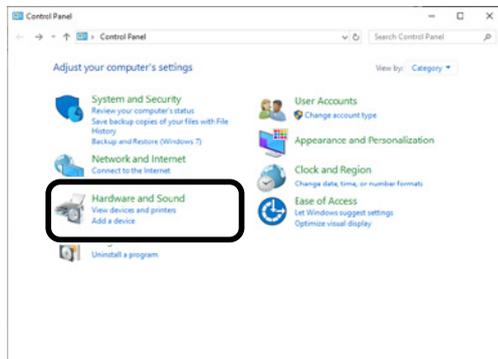


**Note**

- PC administrator privileges are required.
- Restart the computer, and then delete the driver.

**1** Click [Start] and select [Control Panel] in [Windows System].

**2** Click [View devices and printers].



**3** Right-click the [Pro1050 PS] icon, and then select [Remove device].

**4** If a verification message is displayed, click [Yes].



**Note**

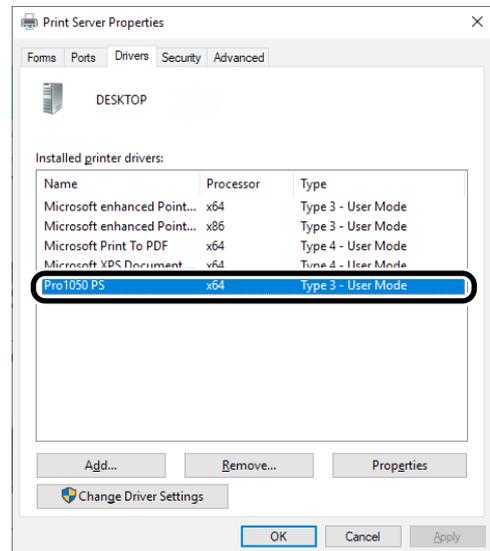
- If a message appears while the device is in use, restart the PC, and then perform steps 1 and 2 of this procedure again.

**5** Select one of the icons in [Devices and Printers], and click [Print server properties] in the top bar.

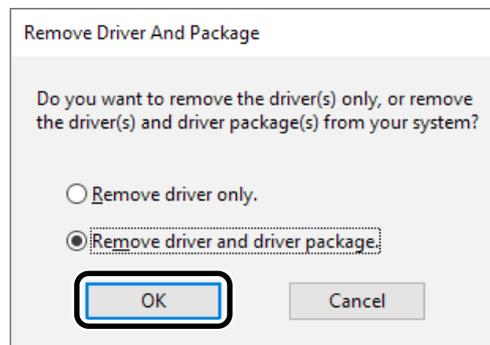
**6** Select the [Drivers] tab.

**7** Click if [Change Driver Settings] is displayed.

**8** Select the driver to be deleted, and click [Remove].



**9** If a message asking whether to delete the drivers only, or the drivers and packages from the system, select to delete drivers and packages, and click [OK].



**10** If a verification message is displayed, click [Yes].

**11** If the [Remove Driver Package] dialog box is displayed, click [Delete]>[OK].



**Note**

- If you cannot cancel, restart the PC, and then perform steps 5 to 10 of this procedure again.

**12** Click [OK] in the [Print server properties] dialog box.

## 13 Restart the PC.

## Updating a Printer Driver

For information about the latest driver versions, check the website.

### ■ Windows PS Printer Driver



- PC administrator privileges are required.

**1** Download the printer driver from the website.

**2** Double-click the file you downloaded.

**3** Select the desired language, and then click [OK].



- When the "User Account Control" window is displayed, click [Yes].

**4** Read the "Software License Agreement", and click [Accept].

**5** Follow the instructions that appear on the screen to finish driver installation.



- Attempting to install an old version driver will cause an update screen to appear. Follow the instructions that appear on the screen.
- Updating a driver may require restarting of the computer.

**6** When the [Program Compatibility Assistant] dialog appears, click [This program installed correctly].

# 4

# Adjusting the Color

<b>Adjusting Color with a Printer Driver .....</b>	<b>56</b>
--	-----------

# ● Adjusting Color with a Printer Driver

## Color Matching

### What Is Color Matching?

It is important to manage the work processes from data creation to output based on methods with color consistency. For example, scanners, digital cameras, and monitors, and other devices express the blending ratio to which the light of red, blue, and green (three colors) have been added to black as values over the RGB color space (additive mixture of colors).

Meanwhile, printers express the blending ratio of the four toner colors cyan, magenta, yellow, and black relative to white (white light), with the three reflected colors red, blue, and green excluded as values in the CMYK color space (subtractive mixture of colors).

The RGB color space and CMYK color space are color spaces dependent on the machine used, and so when converting color spaces, the colors will be different from the reproduced colors unless individual machine characteristics are taken into consideration.

To maintain color consistency from data creation to output, it is necessary to consider the color differences by device when converting colors. This process is called "color matching". The program that implements the color matching is called the "color management system" (CMS).

The printer can use either printer driver color matching or application color matching.



Note

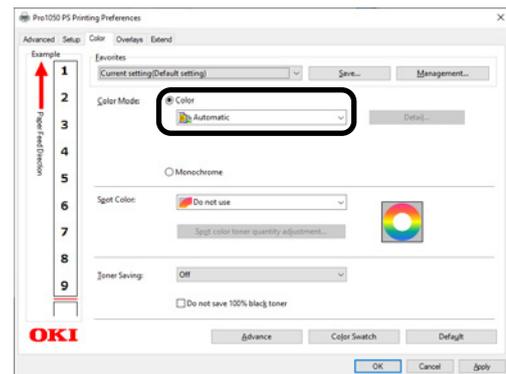
- Even if you are using color matching, the printed colors may appear dark compared to the colors on the monitor. This is because the range of colors that can be reproduced by the device is narrower than the range of colors that can be reproduced by the monitor, so even if color matching is used, the vivid colors on the monitor cannot be reproduced.

## Color Matching (Automatic)

The procedure below performs recommended color matching for general documents. Generally use the settings shown here.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 On the [File] menu, select [Print].
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 In "Color" on the [Color] tab, select [Automatic], and then click [OK].



- 5 Print.

## Simple Color Matching (Simple Adjustment)

Color matching is used on a printer for reproduction of the RGB colors required to print from word processor, spreadsheet, presentation, and other similar software.

Color matching is implemented using a special accelerator (ASIC) that is built into the printer. When converting RGB color space print data to the printer CMYK color space, color matching processing is applied.



### Note

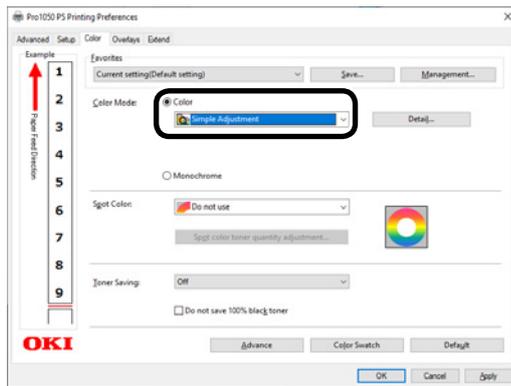
- In the case of a Windows PS printer driver, color matching is not applied even if [Automatic] or [Simple Adjustment] is selected for the CMYK color space print data. In this case, select [Graphic Pro].
- If you have installed an ICC profile on Windows, select [Disable ICM] in [ICM Methods] on the [Advanced] tab.

## ■ Setup Items

- [RGB Color Setting]
  - Specifies the method for expressing the colors processed using color matching.
    - Monitor - Auto
      - During color matching, represents color by the most ideal method suited to the document to be printed, emphasizing compatibility with the monitor (color temperature 6500 K). Normally use this setting.
    - Monitor - Perceptual
      - During color matching, represents the color by the method emphasizing the gradation suiting the natural image of the photograph and compatibility with the monitor (color temperature 6500K).
    - Monitor - Vivid
      - During color matching, represents the color by the method emphasizing the vividness suiting the images and text, and compatibility with the monitor (color temperature 6500K).
    - Monitor - light
      - During color matching, represents the color by the method emphasizing the gradation suiting the natural image of the photograph and compatibility with the monitor (color temperature 9300K).
    - Adobe RGB
      - Specify if you are using an input device with AdobeRGB color characteristics.
    - sRGB
      - The sRGB colors within the printer's color gamut are printed without any modification. Only colors that fall outside the printer's color gamut are matched with the outer shell. Suitable for matching specific colors.
- [Black Finish]
  - Sets the black finish when printing in color. Normally use Auto as is. For detailed explanations of the black finish, see ["Changing the Black Finish" \(P.59\)](#).

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, click [Color], select [Automatic] or [Simple Adjustment], and then click [OK].



- 5 Print.

## Color Matching (Graphic Pro)

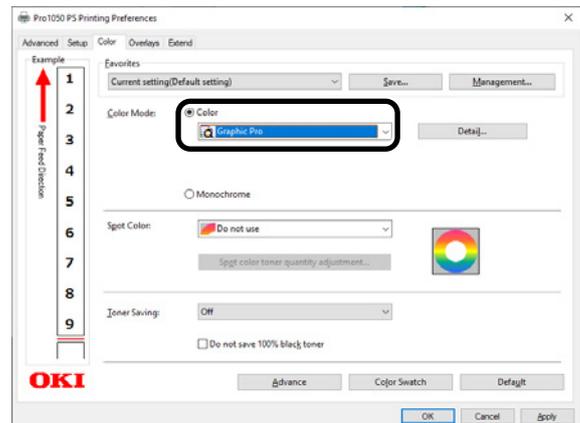
Graphic Pro is the optimal choice for use with DTP software.

It lets you specify simulation printing for any CMYK output device.

To use an ICC profile of an I/O device for color matching, you need to register the ICC profile to the device beforehand.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 On the [File] menu, select [Print].
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, click [Color], then select [Graphic Pro], and then click [OK].



- 5 Print.

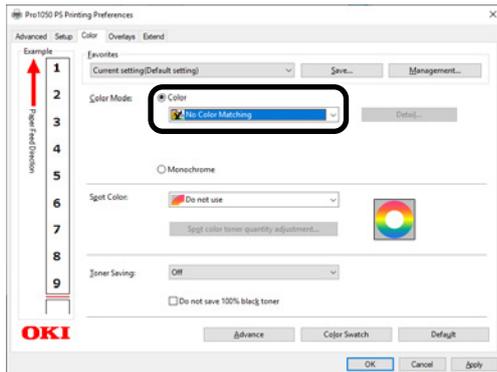
## Color Matching (No Color Matching)

Prints using the specified colors as is, without implementing color matching using the printer drivers or device.

Select if implementing color matching using an application.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 On the [File] menu, select [Print].
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, click [Color], then select [No Color Matching], and then click [OK].



- 5 Print.

## Changing the Black Finish

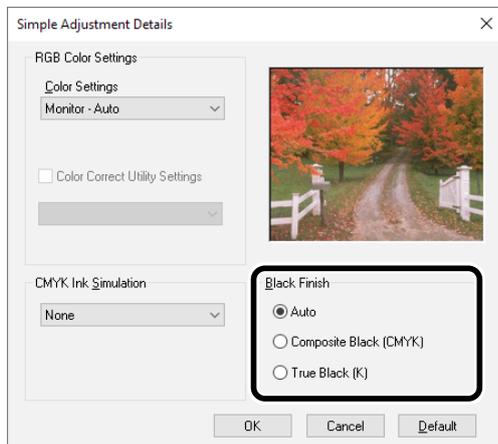
The finish for the black parts will be changed when printing in color. This can be used when the printer driver's color mode setting is [Simple Adjustment] or [Graphic Pro].

### ■ Setup Items

- Black Finish
  - Auto
    - Creates black using the optimum methods according to the document to be printed. This setting can be selected only when the color mode is set to [Simple Adjustment]. This setting cannot be configured on the Graphic Pro.
  - Composite Black(CMYK)
    - Synthesizes black using cyan, magenta, yellow, and black toner. The black is close to brown. Ideal for photos.
  - True Black (K)
    - Prints black using black toner only. Ideal for diagrams and documents. When printing photos, the dark parts are blackish.
  - Pure Black Text/Graphics (Graphic Pro Only)
    - If black defined using the RGB color space for text and graphics (R=0, G=0, B=0) or black defined using the CMYK color space (C=0, M=0, Y=0, K=100%) is specified, this setting specifies whether printing should use black (K) toner only.
  - ON
    - Prints the text and graphics specified as black using black (K) toner only.
  - OFF
    - Text and graphics specified as black are synthesized using either black (K) toner only or CMYK depending on the profile specified by color matching.

## ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 On the [File] menu, select [Print].
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, select [Simple Adjustment] or [Graphic Pro], and then click [Detail].
- 5 In the [Black Finish] section, select the black finishing method. In the [Graphic Pro] mode, also select ON or OFF for [Pure Black Text/Graphics], and then click [OK].



- 6 Print.

## Monochrome (Black and White) Printing

The color data is printed using grayscale (shades of black and white) without touching the print data.



### Note

- If implementing color printing after printing by specifying [Monochrome], a delay may occur depending on the temperature adjustment of the fuser unit.

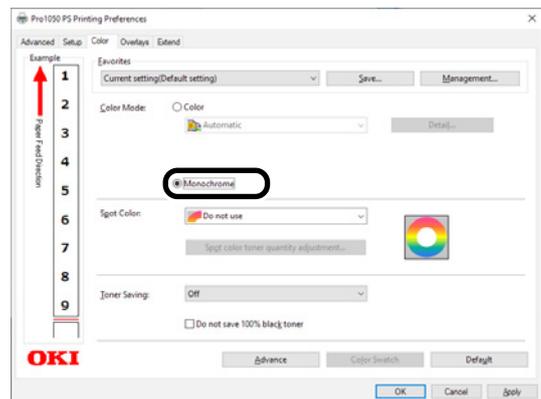


### Memo

- Even if the cyan (blue), magenta (red), yellow print cartridge life has been reached, monochrome printing using only black can be done by specifying [Monochrome].
- For information about roll paper, see "Roll Paper Specifications" (P.8).

## ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, select [Monochrome].



- 5 Print.

## Suppressing White Lines Between Text and the Background (Black Overprint)

If you are imaging 100% black text on a colored background, you can print (overprint) by overlaying the text and background parts. Set if there are gaps such as white lines, etc., in the borders between the text and background.

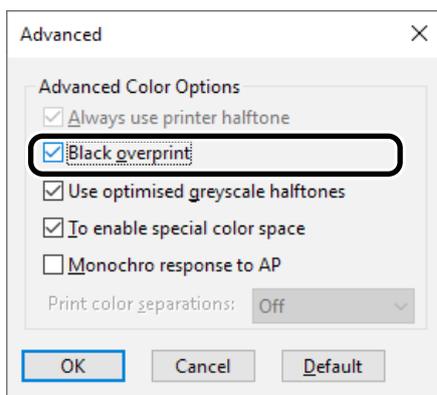


### Note

- Not usable with some applications.
- Black overprint cannot be used if the text is not 100% black, the text has been rendered as graphics by extracting the outlines, or if the text is an image.
- If the background color is dark (toner layer thickness exceeds 240%), toner may not be fixed completely. For example, if printing 100% black text on backgrounds of 50% cyan, 50% magenta, and 50% yellow, the toner layer thickness is  $50+50+50+100=250\%$ , which exceeds 240%.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, click [Advance].
- 5 Select the [Black overprint] check box, and then click [OK].



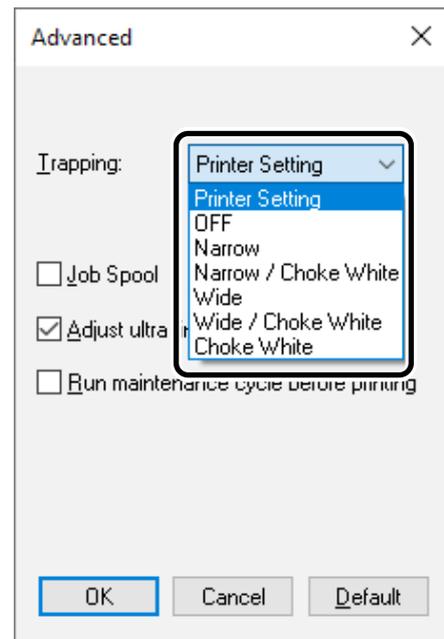
- 6 Print.

## Correcting for Print Misalignment (Trapping)

Use if there are white or colored lines between two overlapping objects due to print misalignment.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Extend] tab, click [Advanced].
- 5 Select the misalignment correction method in [Trapping], and then click [OK].



### Memo

- Selections that include [Choke White] are only shown for the Pro1050.

- 6 Print.

## Simulating Print Results

The printer adjusts CMYK color data to simulate the characteristics of ink, such as that used in offset printing.

The ICC profiles registered as standard are described below.

- RGB Profiles
  - sRGB
  - AdobeRGB
- CMYK Input Profiles
  - SWOP
  - ISO Coated
  - Japan Color
  - JMPA



### Note

- Enabled when [Color Mode] is set to either [Simple Adjustment] or [Graphic Pro].

## ■ Windows PS Printer Driver

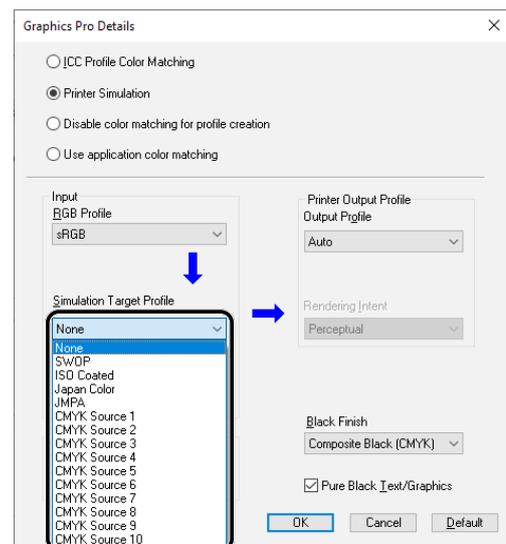
- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 On the [Color] tab, select [Graphic Pro], and then click [Detail].



### Memo

- For business and similar documents, you can also see simulations by using [Simple Adjustment]. Click [Detail], and then select the attributes of the inks you want to simulate from [CMYK Ink Simulation].

- 5 Select [Printer Simulation], and then use the list under [Simulation Target Profile] to select the ink characteristics you want to simulate.



- 6 Click [OK].
- 7 Print.

# 5

# Spot Color Printing Setup (Pro1050 Only)

<b>Printer Driver Spot Color Function List .....</b>	<b>64</b>
<b>Printing on Color Papers.....</b>	<b>65</b>
<b>Printing by using applications to specify Spot Color toner (PS printer drivers only) .....</b>	<b>69</b>

 **Note**

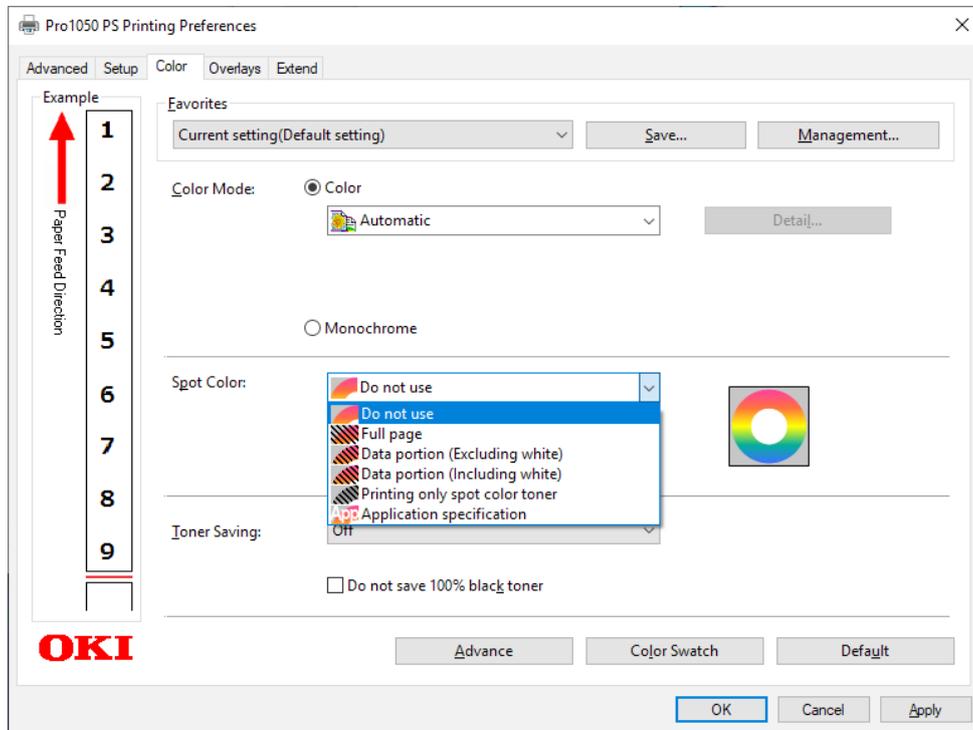
- The examples in this chapter use Windows WordPad for explanations. Depending on the application, the screens and operations procedures may differ.
- Spot color printing is supported by the Pro1050 only.
- For detailed explanations of the printer driver setup items, see "Online Help".
- Due to printer driver version upgrades, actual operations may be different from the descriptions in this manual.

# ● Printer Driver Spot Color Function List

This section explains the Spot Color toner functions in the printer drivers.

## ■ Windows PS Printer Driver

Click the [Color] tab to display the screen for setting the spot color toner.



Item		Description
Spot Color	Do not use	Prints without using white toner.
	Full page	Uses white toner for the entire page being printed.
	Data portion (Excluding white)	Uses white toner for all data parts that do not include white parts.
	Data portion (Including white)	Uses white toner for all data parts that include white parts.
	Printing only spot color toner	Prints with white toner only.
	Application specification	Allows you to specify white toner from the application.
Spot color toner quantity adjustment	0 to 100	Adjusts the amount of white toner used while printing.
	Don't layer white toner for 100% black	Select whether to do overlaying on white toner when printing text or lines at 100% black.

## ● Printing on Color Papers

### Usable Color Papers

Use color paper that satisfies the following conditions.

- Pigment or ink used to color the paper heat-resistant to 230°C
- E-photo printer paper with the same paper characteristics as plain paper

### Printing Using White Toner Only

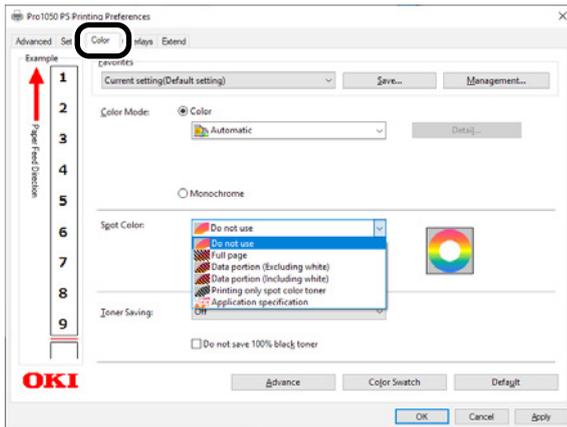
Printing text and illustrations using only white toner on color paper.



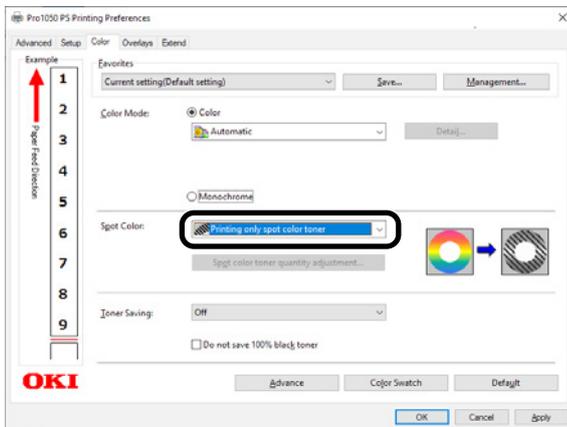
- If you specify [Printing only spot color toner] and lift up all the other colors of cartridges, you can print with only spot colors, even if one of the black, cyan, magenta, or yellow print cartridges has reached the end of its service life.

### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 Click the [Color] tab.



- 5 For [Spot Color], select [Printing only spot color toner], and then click [OK].



- 6 Print.

## Printing White Under Color

When printing on color paper, print a base with white toner, and then print in color on top of that.

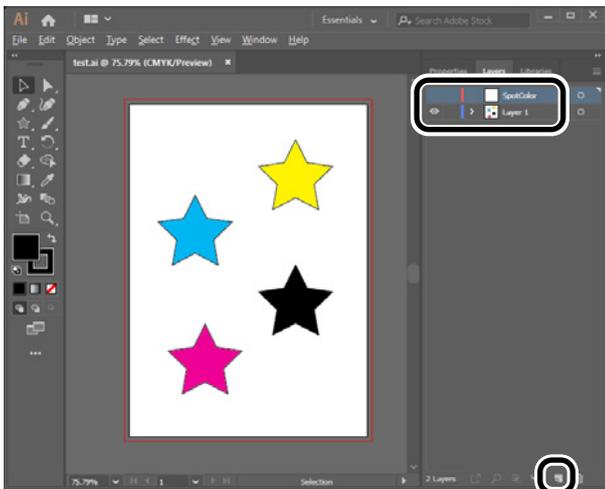
### ■ Windows PS Printer Driver

- 1 Open the file to be printed.
- 2 Select [Print] in the [File] menu.
- 3 Select [Pro1050 PS], and then click [Preferences].
- 4 Click the [Color] tab.
- 5 For the [Spot Color] setting, select one of the following: [Full page], [Data portion (Excluding white)], [Data portion (Including white)].
- 6 Click [OK].
- 7 Print.

## Adjusting the White Image from Application

By adjusting the file from the application, the registration misalignment may not be noticeable. If the misalignment is not fixed after adjusting the position and size, adjust the white image with the application. Adobe Illustrator will be used as an example for the adjustment method.

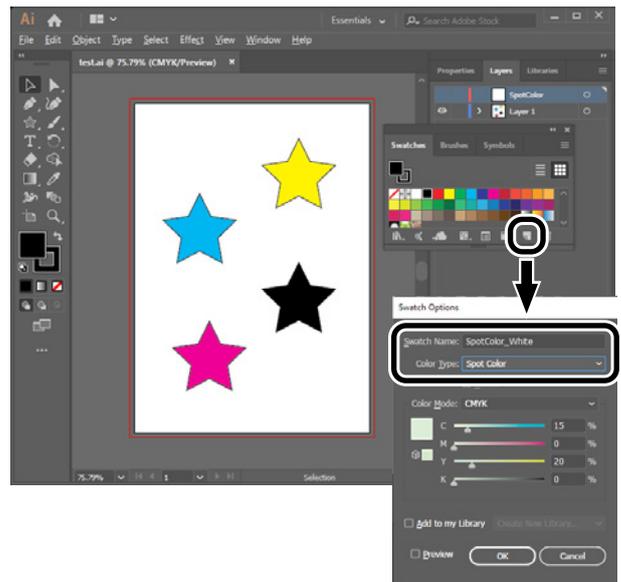
- 1 Open the data with white misalignment.
- 2 Create a new layer. Name the layer "SpotColor", and create this at the top.



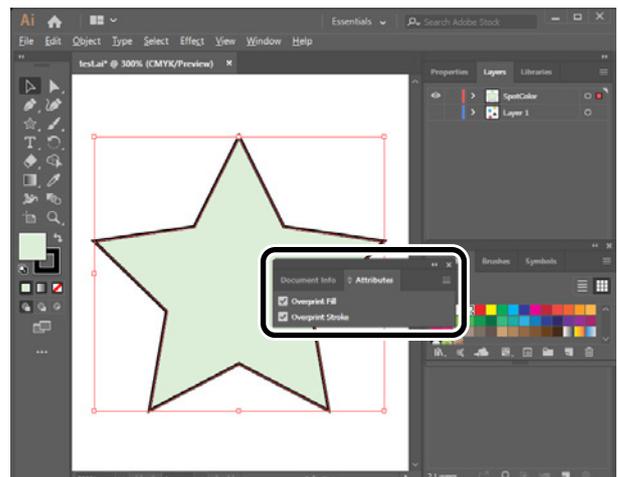
- 3 Open the swatch window, and click the "New Swatch" button. Enter [SpotColor\_White] as its name, and select [Spot Color] for the color type.



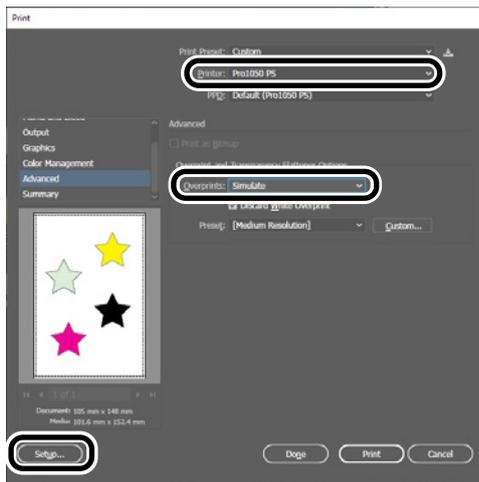
- Please enter the name as given above. White toner will not be recognized if you make a mistake in the entries.



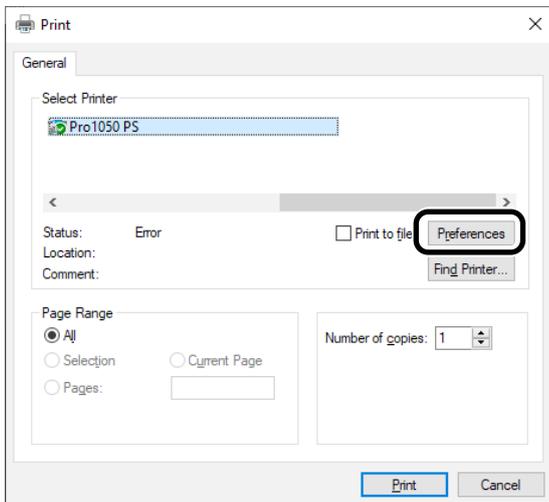
- 4 Copy the object to be filled with spot color white to the "SpotColor" layer.
- 5 Select the copied object, and set the fill to "SpotColor\_White:100%" and the border to "SpotColor\_White:0%". For outlines, select "Object" > "Path" > "Path Outline", and set the fill and border after it been changed to Object.
- 6 Open the attribute window, and select [Overprint Fill] and [Overprint Stroke].



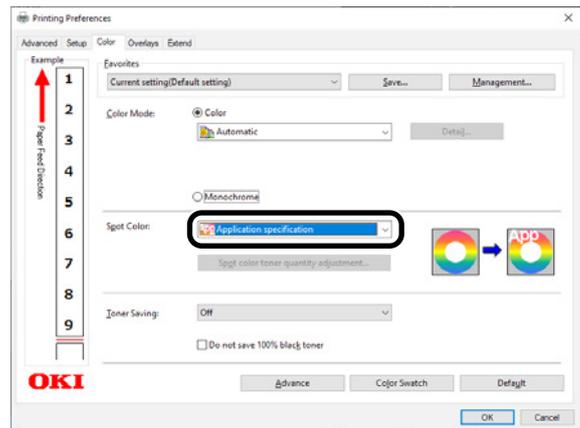
- 7 Select [File] > [Print].
- 8 Go to [Printer], and select [Pro1050 PS].
- 9 Go to [Advanced] > [Overprints], and select [Simulate].
- 10 Click [Setup].



- 11 Click [Preferences].



- 12 On the [Color] tab, select [Application specification] in [Spot Color].



- 13 Print.

# ● Printing by using applications to specify Spot Color toner (PS printer drivers only)

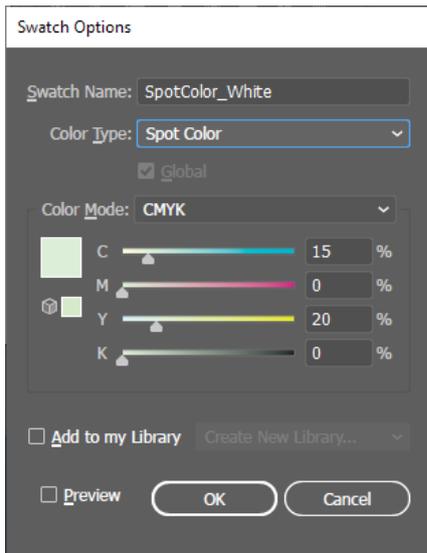
## Using Illustrator

This explanation uses Illustrator CC as an example.

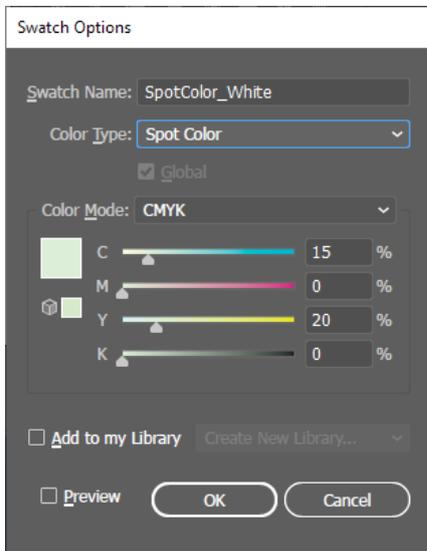
### ■ Adding Swatches

If using Spot Color (white), specify the swatches added for the objects to be Spot Color printed.

- 1 Open the swatch panel, and select new swatch.
- 2 Enter [SpotColor\_White] in [Swatch Name].



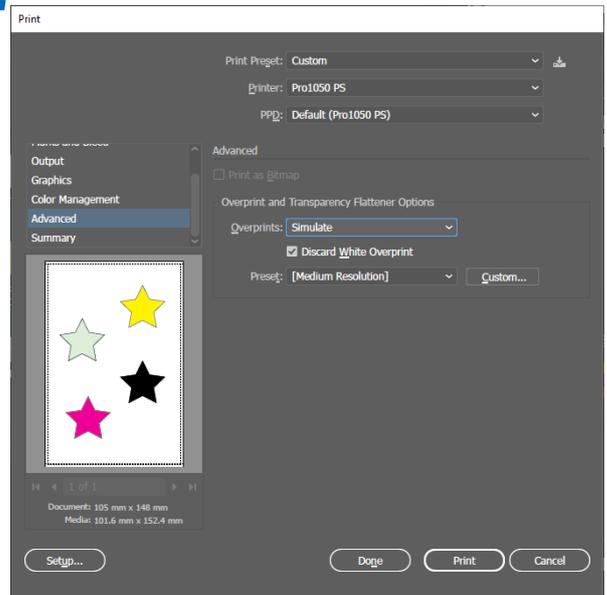
- 3 Select [Spot Color] in [Color Type].



### ■ Printing

If printing Spot Color, make the settings using the application print dialog box.

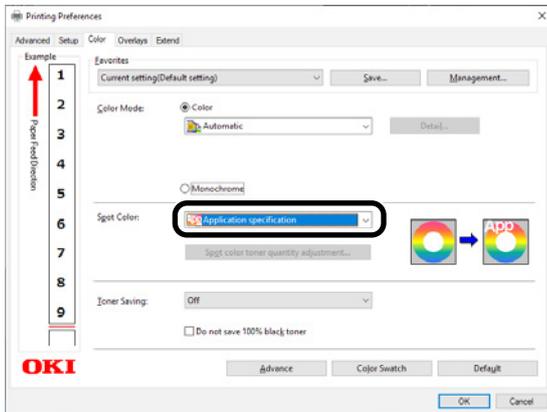
- 1 Click [Advanced] from the menu on the left of the print dialog box.
- 2 Select [Simulate] in [Overprints].



- 3 Click [Print].

❑ Windows PS Printer Driver

- (1) Select Windows PS printer drivers, and click [Preferences].
- (2) On the [Color] tab, select [Application specification] in [Spot Color], and then click [OK].



- (3) Print.

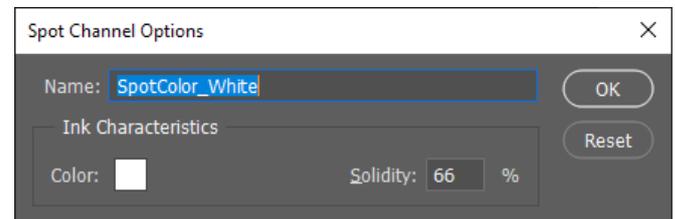
## Using Photoshop

This explanation uses Photoshop CC as an example.

### ■ Adding Spot Color Channels

If using Spot Color (white), specify the Spot Color channels added for the objects to be Spot Color printed.

- 1 Open the channel panel, and select a new Spot Color channel.
- 2 Enter [SpotColor\_White] in [Name].

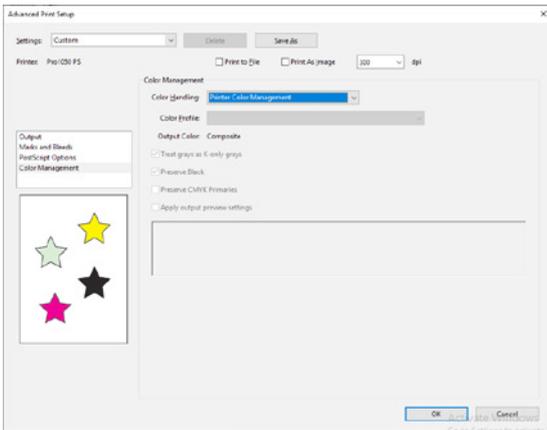


### ■ Saving in PDF Format

Spot Color printing directly from Photoshop is not possible, so initially save the file in PDF format.

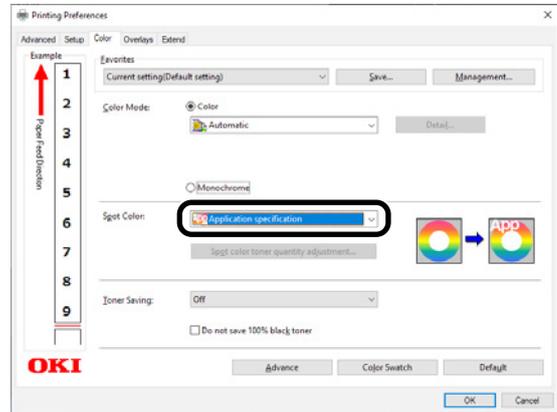
## ■ Printing

- 1 Open the file that has been saved in PDF format using Acrobat or Adobe Reader.
- 2 Select [File]-[Print] to open the print dialog box.
- 3 Click [Advanced].
- 4 Select [Color] from the menu on the left of the [Preferences] dialog box, and select [Simulate overprint]. (If using Adobe Reader, click [Advanced], and then select [Simulate overprint].)
- 5 Click [OK] to return to the print dialog box.



## □ Windows PS Printer Driver

- 1 Select Windows PS printer drivers, and click [Preferences].
- 2 On the [Color] tab, select [Application specification] in [Spot Color].



- 3 Print.





# Troubleshooting

**Printer Driver Malfunctions ..... 74**

# ● Printer Driver Malfunctions



Memo

- If the problem is not solved using the following explanation, contact your designated customer service center.
- For problems arising from the applications, contact the application development company.

## Trouble when setting up printing

Symptom	Solution procedure
A few seconds of waiting time occurs if you switch from another printer to the [Pro1050 PS], using the printer settings in an application.	These symptoms occur when there are many types of paper registered in the printer driver. If you want to reduce this waiting time, delete the paper settings that you do not need from the printer driver.
Printing is being done in specified batches, even though they have not been specified.	For some applications, batch copies may be specified automatically if a number of copies have been specified in the print settings on the application. To solve this, manually turn off the batch settings that were turned on automatically in the application.
The setting for printing multiple copies does not appear on the control panel of the printer, even though the setting for multiple copies is specified in printer settings in the printer driver or the application.	When you specify to print multiple copies in the printer driver or application, some applications generate print data for all of the copies to be printed.  When this type of data is being printed, the printer cannot recognize that you have specified multiple copies to be printed, so the indicator for printing multiple copies does not appear on the control panel. You can use the printer as it is, because all the copies that you specified will be printed.
Cannot add paper from the client side while doing shared printing.	This printer driver does not support shared printing in a client-server environment. To use this function, connect the printer directly to the computer, without going through a server.
Cannot use watermark or overlay functions on short paper.	The watermark and overlay functions cannot be used if the paper length, label length, or black mark interval for a single sheet is less than 101.6 mm (4 inches). Use this function with paper that is longer than that noted above.
The print results are not printed in reverse page order even though [Print in reverse order] is specified when using a specified application.	If you can specify printing in reverse page order in the print dialog box of your application, such as in Adobe Acrobat or Adobe Reader, then the print in reverse order command is disabled in the printer driver. If this situation occurs, set the print in reverse order function in the application.
The print result is rotated 180 degrees when [Auto portrait/landscape] is specified for the print orientation in the print dialog box, such as in Adobe Acrobat or Adobe Reader, before printing.	If this situation occurs, specify [Portrait] or [Landscape] for the print orientation in the print dialog box of your application.
Cannot specify the same paper length as in the Windows PCL printer driver.	The minimum paper length in this printer driver is 25.4 mm (1 inch). In addition, for continuous paper (black mark) and continuous label (black mark), the lower margin is 5.32 mm. Use paper that satisfies these conditions.
Cannot input any value in [Copies] on the [Setup] tab in the printer driver.	In the following case, there is a limit to the number of copies that can be input. <ul style="list-style-type: none"> <li>● When paper is selected that has a setting shorter than 101.6 mm (4 inches) for paper length, label length, or black mark interval for [Paper settings] on the [Setup] tab in the printer driver</li> </ul>

<b>Symptom</b>	<b>Solution procedure</b>
If you specify a number in [Copies] in the print dialog box of your application, such as in Adobe Acrobat or Adobe Reader, then a warning is displayed when you print.	A warning is displayed in the following situations. Follow the instructions in the warning display to re-specify [Copies], and then do the print operation again. <ul style="list-style-type: none"><li>● When paper is selected that has a setting shorter than 101.6 mm (4 inches) for paper length, label length, or black mark interval for [Paper settings] on the [Setup] tab in the printer driver, and then printing is done</li><li>● When paper is selected that has a setting shorter than 101.6 mm (4 inches) for paper length or label length, or black mark interval in the print dialog box of the application, and then printing is done</li></ul>

**Oki Electric Industry Co., Ltd.**

1-7-12 Toranomom, Minato-ku, Tokyo  
105-8460, Japan

47309602EE Rev2

<https://www.oki.com/printing/>