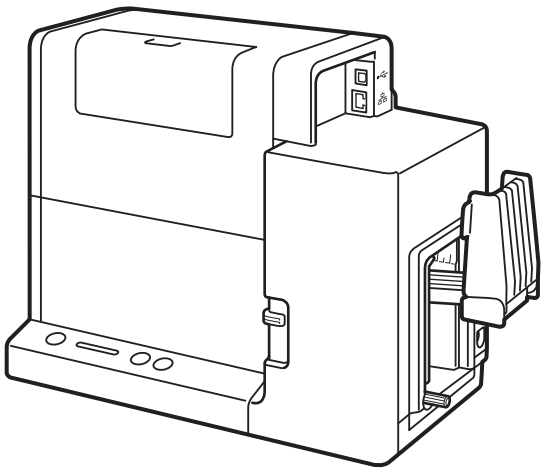
swiftcolor™

SCC-2000D

User's Guide



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Before You Begin

Thank you for purchasing the Swiftcolor SCC-2000D.
Please read this guide before you use the printer so you can fully understand the printer features and learn how to use the printer most efficiently. This guide provides all the information you need to use this printer.

Conventions

WARNING

Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the machine safely, always pay attention to these warnings.

CAUTION

Indicates a caution concerning operations that may lead to injury to persons if not performed correctly. To use the machine safely, always pay attention to these cautions.

IMPORTANT

Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the machine correctly, and avoid damage to the machine or property.

NOTE

Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

Indicates an operation that must not be performed. Read these items carefully, and make sure not to perform the described operations.

Sample Screens

The sample screens of the printer driver settings in this guide were created with Swiftcolor SCC-2000D in Windows 7.

Trademarks

- Microsoft and Windows are trademarks of Microsoft Corporation in the United States and/or other countries.
- Other brand and product names may be trademarks or registered trademarks of their respective companies.

Abbreviations

Throughout this document the following abbreviations are used in text.

- Microsoft Windows 8 is abbreviated as "Windows 8"
- Microsoft Windows 7 is abbreviated as "Windows 7"
- Microsoft Windows is abbreviated as "Windows"

Request to the Customer

- Copying this guide or any part of this guide without permission is strictly forbidden.
- The specifications for this printer as well as the software provided with the printer are subject to change without prior notice.
- We have done our best to make this guide as complete and accurate as possible, and we ask you to contact the dealer where you purchased the printer if you find any omissions or mistakes in this document.
- We can accept no responsibility for loss or damages resulting from the use of this printer or its software; please accept this before you use the printer.

Legal Notice

Legal Limitations on the Usage of Your Product and the Use of Images

- It is illegal to reproduce currency, bills, negotiable securities and other documents prohibited by law. Reproduction of such items may be subject to criminal prosecution.
- It is illegal to reproduce legal certificates, licenses, and certain public and private documents prohibited from reproduction by law. Reproduction of such items may be subject to criminal prosecution.
- Please note that intellectual property protected by copyright may not be reproduced without the express permission of the copyright holder except for personal or household use under limited circumstances.

Product Name

SCC-2000D

CE

This equipment conforms with the essential EMC requrements of EC Directive. We declare that this product conforms with the EMC requirements of EC Directive at nominal mains input 230V, 50 Hz although the rated input of the product is 100 to 240 V, 50/60 Hz. Use of shielded cable is necessary to comply with the technical EMC requirements of EC Directive.

FCC (Federal Communications Commission)

FCC Part 15 Compliance
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Chapter 1

Basic Operation

This chapter describes basic things to remember before using this product.

Names and Functions of Components 2

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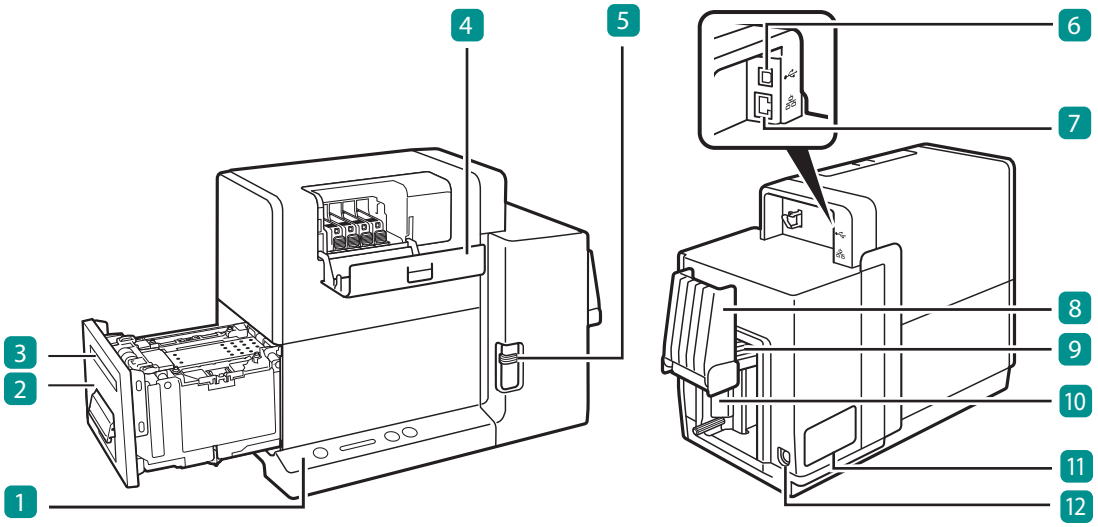
Names and Functions of Components

Names and functions of the components of this printer are described below.

External View



1 Operation Panel (P.5)
Keys for selecting printer operations and lamps indicating printer statuses are provided on this panel.

2 Transport Unit (P.4)
Pull out this unit when clearing paper jams or adjusting the paper guides.

3 Ejection Slot
Printed paper is ejected through this slot.

4 Ink Tank Cover
Open this cover when replacing ink tanks.

5 Paper Switch Lever
Switch the lever position according to the thickness of the paper to be set.

6 USB Connector
Connect a USB cable to this connector.

7 LAN Connector
Connect a LAN cable to this connector.

8 Auxiliary Tray
Open the tray to set paper. During use, keep the tray closed. When long sheets of paper (paper length of 157 mm or longer) is set, keep the tray open during use.

9 Feeder Lift Tray
Load the paper.

10 Side Guide
Adjust the position of this guide according to the paper width.

11 Rating Plate

A serial number for identifying the printer is indicated on this label.
(The serial number is required when repairing the printer or registering the warranty.)

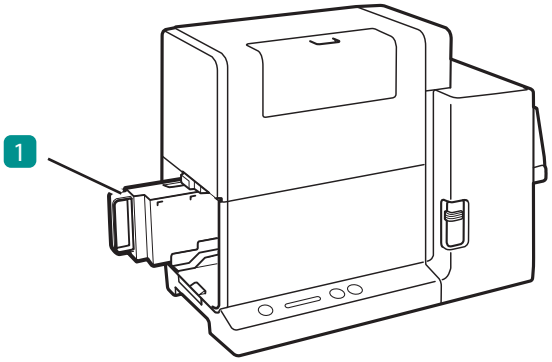
12 Power Socket

Connect the supplied AC adapter to this socket.

IMPORTANT

- While the printer is operating, do not open the ink tank cover or the transport unit lever. It could cause a printer failure.

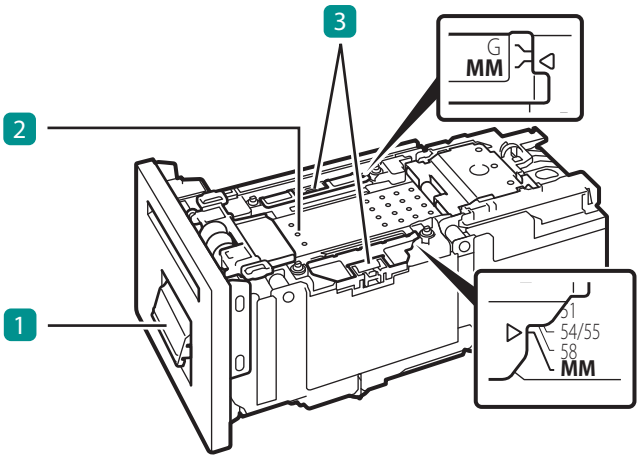
Internal View



1 Maintenance Cartridge

Ink used to clean printhead is collected in this cartridge.

Transport Unit



1 Transport Unit Lever

Open this lever to pull out the transport unit.

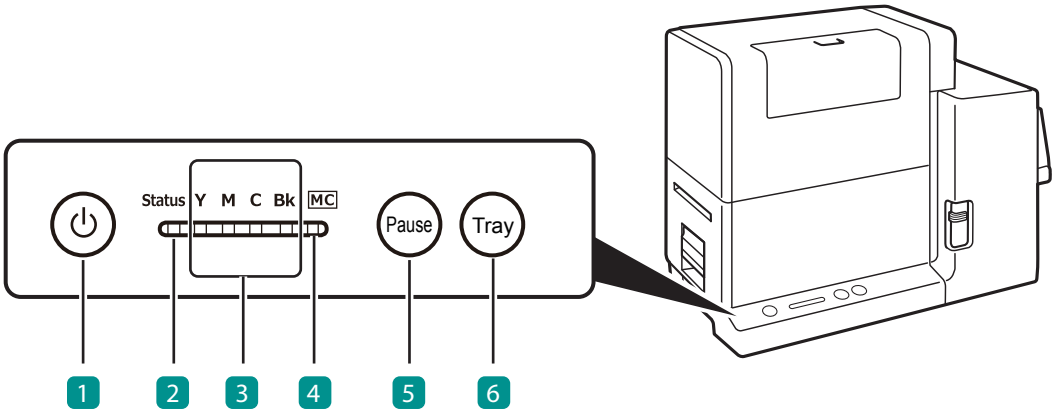
2 Transport Belt

Transports paper here.
Clean the transport area when stained with paper dust and ink. (P.131)

3 Paper Guide

This guide holds the paper down to keep it from floating. Normally, set the lever to the MM position for use.
If the guide is stained with paper dust or ink, clean it. (P.126)

Operation Panel



1 Power Key/Lamp

Press this key to turn on/off the printer. This lamp lights up or blinks depending on the power supply status.

On: The printer is powered.
Blink: The printer is in sleep mode (power-saving mode).
Off: The printer is not powered.

2 Status Lamp

This lamp lights up or blinks green or orange.

Lit (green): Printing from the computer is possible (online mode).

Blink (green): The printer is processing or operating (printing, cleaning, etc.)

Lit (orange): An operator call error has occurred.

Blink (orange): A service call error has occurred.

Off: Instructions and print data cannot be received from the computer (offline mode).

3 Ink Lamps (Bk/C/M/Y)

Each lamp lights up or blinks when the corresponding ink tank is out of ink or short of ink.

Lit: The ink tank is out of ink or faulty.
Blink: The ink tank is short of ink.
Off: The ink tank is sufficient of ink.

4 Maintenance Cartridge Lamp

This lamp lights up or blinks when there remains a small or no maintenance cartridge space to collect ink.

Lit: The maintenance cartridge has no free space or it is faulty.
Blink: The maintenance cartridge has a small free space.
Off: The maintenance cartridge has a sufficient free space.

5 Pause Key

Press this key to switch between online and offline modes.
When printing is in progress, pressing this key stops printing temporarily. Pressing this key again resumes printing.

6 Tray Key

Use this key to move the feeder lift tray upward/ downward.

NOTE

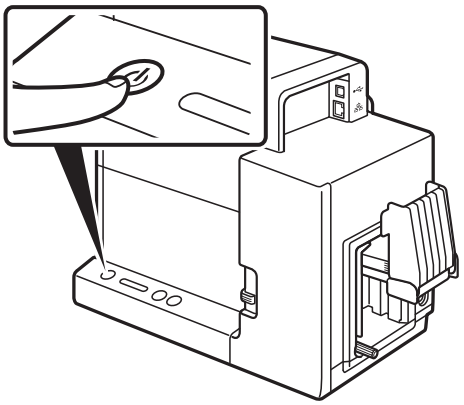
- When the printer is in the sleep mode, the Status lamp, Ink Lamps, and Maintenance Cartridge Lamp stay off regardless of the statuses of the printer, ink tanks, and maintenance cartridge.

Turning on/off Printer

Turn on/off the printer following the procedures described below.

Turning on the Printer

1 Press the Power key.



- The Status lamp blinks (green), and then lights up.

NOTE

- **About the Sleep Timer** (P.9)
  This printer is designed to enter the sleep state automatically if a predetermined time elapses without printing. By default, the time is set to 4 minutes.

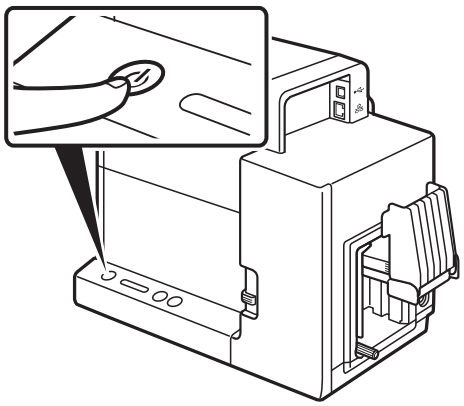
Turning off the Printer

1 Make sure the printer is not operating.

When the Status lamp is blinking (green), the printer is operating. Make sure the Status lamp lights up (green) before turning off the printer.

2 Press and hold the Power key until the Status lamp goes out.

When the Status lamp is off, press and hold the Power key at least 1 second.



- When the Power lamp stops blinking, the printer is turned off.

IMPORTANT

- When unplugging the power cord after turning off the printer, make sure the Power lamp is off.
- If the printer will not be used for a long period, disconnect the power cord, AC adapter, and interface cable.

NOTE

- **About the Off Timer** (P.11)
  This printer is designed to be turned off if a predetermined time elapses without printing. By default, the time is set to 240 minutes.

Changing the Power Settings

The function of managing the power settings from the printer driver is described below.

■ Switching the Printer to the Sleep State

Switch the printer to the sleep state (power saving state).

IMPORTANT

- When printing is in progress or an error has occurred, the printer cannot be switched to the sleep state.

NOTE

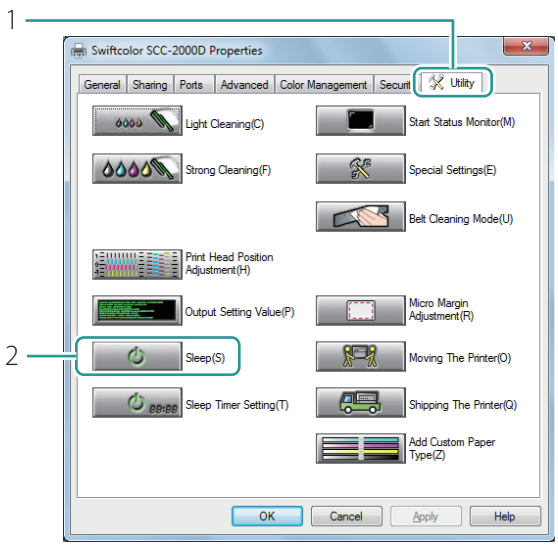
- The printer is automatically switched back from the sleep state to the online state in the following cases:
  - When the Power key is pressed
  - When print data is received
  - When cleaning, etc. is performed

1 Make sure the printer is in the online state (the Status lamp is lit (green)).

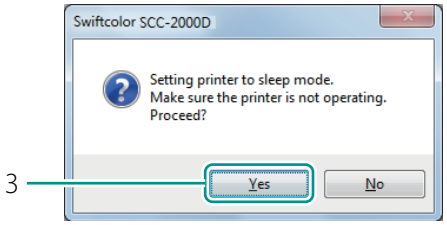
If the printer is in the offline state (the Status lamp is off), press the Pause key to switch the printer back to the online state.

2 Open the printer driver setup window. (P.31)

3 Switch the printer to the sleep state.



1. Click the [Utility] tab.
2. Click [Sleep].
   - A confirmation message appears.



3. Confirm the message, and then click [Yes].
   - The Power lamp blinks slowly, and the printer is switched to the sleep state.

Changing the Sleep Timer/Off Timer Setting

You can switch this printer to the sleep state automatically (sleep timer), or turn it off automatically (off timer) when it is not operated for a preset time.

IMPORTANT

- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".
- When printing is in progress or an error has occurred, you cannot change the set time.

NOTE

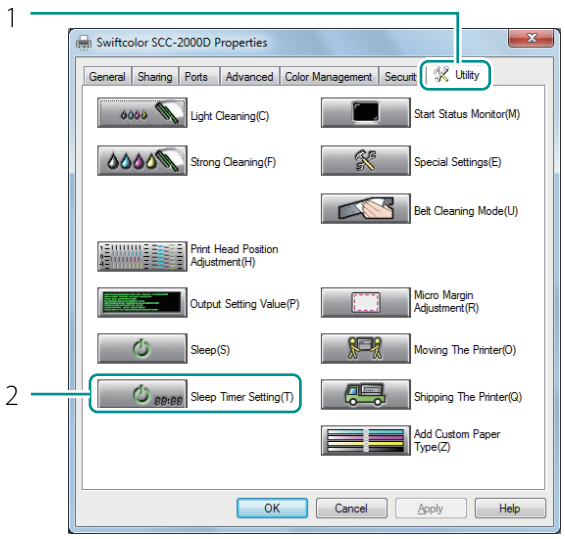
- By default, the sleep timer is set to 4 minutes and the off timer 240 minutes.

1 Make sure the printer is in the online state (the Status lamp is lit (green)).

If the printer is in the offline state (the Status lamp is off), press the Pause key to switch the printer back to the online state.

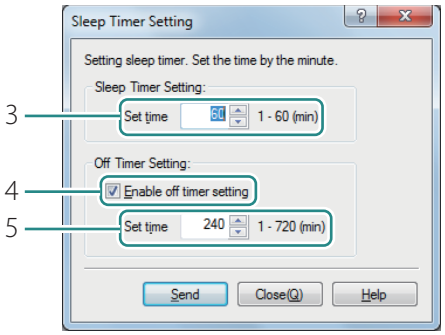
2 Open the Properties window of the printer driver. (P.32)

3 Set the sleep timer.



1. Click the [Utility] tab.
2. Click [Sleep Timer Setting].

- The [Sleep Timer Setting] dialog box appears.



3. Enter the setting time of the sleep timer.

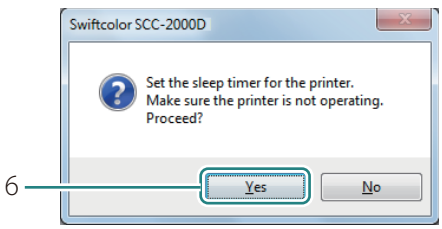
- The time can be set in minutes within the range from 1 to 60 (min).

4. Enter the setting time of the off timer.

- The time can be set in minutes within the range from 1 to 720 (min).
- If the off timer is not necessary, uncheck the [Enable off timer setting] check box.

5. Click [Send].

- A confirmation message appears.



6. Confirm the message, and then click [Yes].

Setting Paper

The procedure of setting paper is described below.

IMPORTANT

- Use the dedicated paper. Using other paper could cause blurred or faint printing or have a negative impact on the printer, resulting in a printer failure.

NOTE

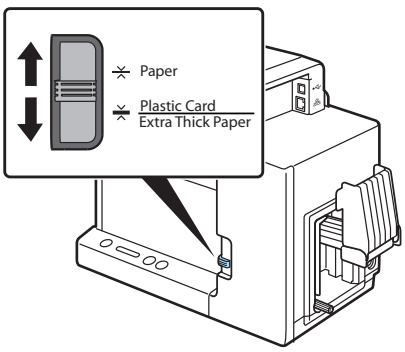
- Types of paper that can be used with this printer are as follows:
  - Matte Coated Paper
  - Glossy paper
  - Plastic card

  For details of paper and how to get paper, contact the dealer.

1 Make sure the Power lamp is lit.

If the Power lamp is off, press the Power key to turn on the printer. (P.7)

2 Set the paper switch lever.



- Set the lever to the appropriate position according to the paper to be printed on.

  Plastic card or Extra thick paper:
  Set it to [Plastic Card/Extra Thick Paper]

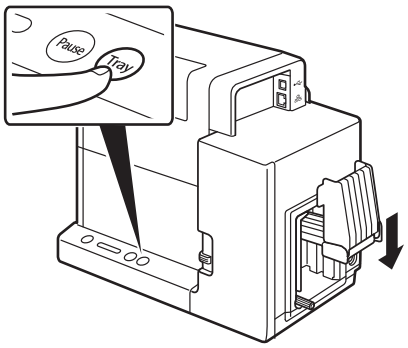
  Paper other than above:
  Set it to [Paper]

IMPORTANT

- Paper will not be fed properly if the paper switch lever is not in the appropriate position for the paper.

3 Lower the feeder lift tray.

If the feeder lift tray is already lowered, proceed to step **4**.



1. Press the Tray key.

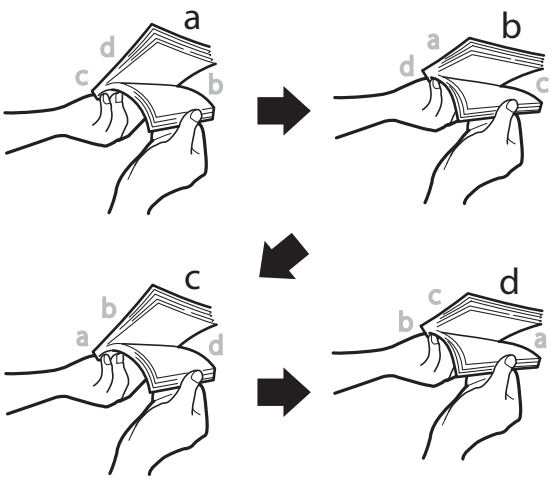
- Wait for the feeder lift tray to stop.

CAUTION

- When the feeder lift tray is moving, do not touch it. Also, do not insert your hand or place objects below the tray. Doing so can cause injury or malfunction.

4 Prepare paper.

When using plastic cards, proceed to step **5**.



1. Flip through the paper to separate the sheets.

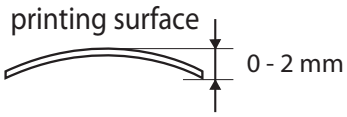
- Setting the paper after flipping through it will prevent multiple sheets from being fed at once.
- Paper dust may be adhered to paper.
  As shown in the figure, flip through the four sides (a, b, c, and d) of the paper thoroughly to remove the dust.

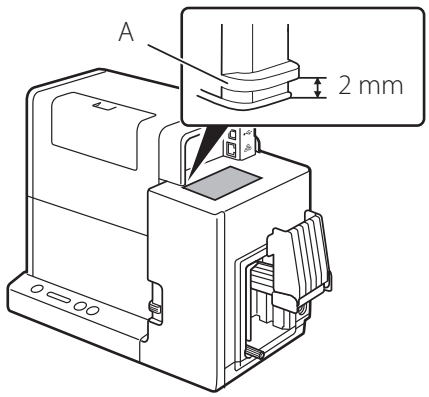
(Fig.1)

2. Check the paper curl.

- If the paper is curled, bend in the direction opposite to the curl in order to flatten it.
- As shown in the figure, if the paper is placed with the printing surface facing up and the paper is curled upward (Fig.1), fix the curl so that the paper is flat. Paper that is curled upward can cause paper jams or printing surface rubbing.
- If the paper is curled downward (Fig.2), flatten the paper so that the curl does not exceed 2 mm.

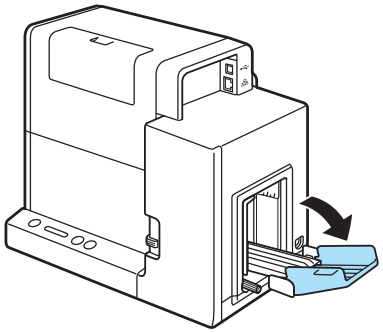
(Fig.2)





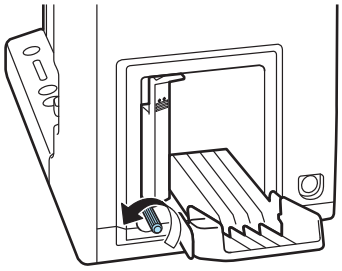
- It is possible to check the amount of curl in paper that is curled downward with the curl index (A).
  When you place the paper with the printing surface facing down as shown in the figure, check that the index is not exceeded (the curl is 2 mm or less).

5 Set paper.



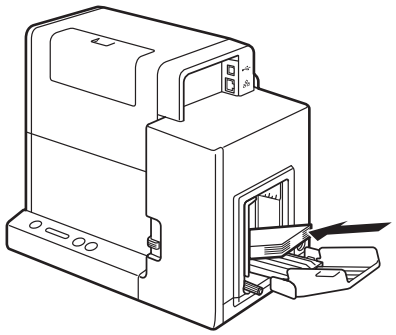
1. Open the auxiliary tray.

- If there is paper in the feeder slot, remove it.



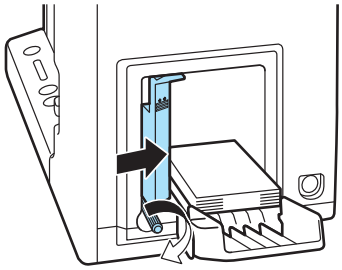
2. Loosen the side guide screw.

- When turn the screw too much, the screw will come off.

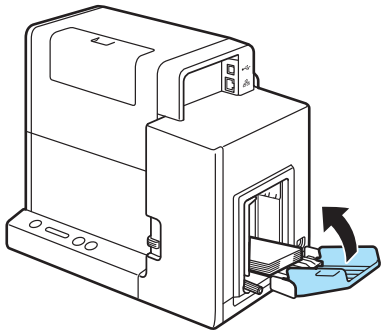


3. Set the paper so that the further edge touches the back of the feeder lift tray.

- Align the paper neatly before loading.
- If the paper has front and back sides, face the side that you want to print on up.
- If the side guides are too narrow, pull them outward and then set the paper.



4. Adjust the side guides to the paper edge, and secure them in place with the screw.



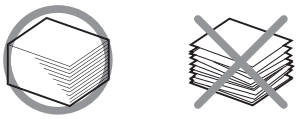
5. Close the auxiliary tray.

- For long sheets of paper (paper length of 157 mm or longer):

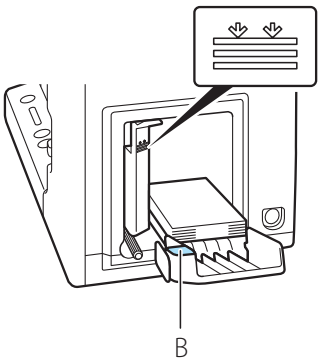
  You do not need to close the auxiliary tray.

IMPORTANT

- Align the edges before loading. Not doing so can cause paper jams.

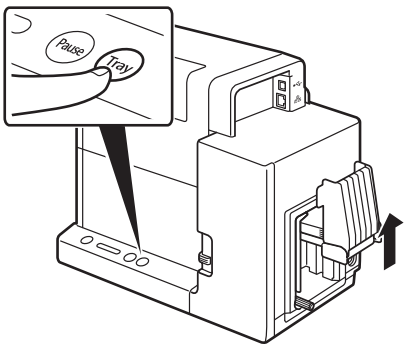


- Check that the height of the paper stack is not exceeding the load limit mark (arrow). However, long paper (paper length of 157 mm or longer) cannot be set up to the load limit mark. As a guideline, the load limit is the upper limit of the auxiliary tray (B).



- If a paper feed error occurs, reduce the number of sheets loaded in the tray.
- If the paper is not touching the back of the feeder lift tray, the paper may not be fed properly.
- Fix the side guides in place so that they gently touch the edges of the paper. If they are set too tightly against the paper, the paper may not be fed properly.
- When changing the paper size, adjust the width of the side guides according to the width of the paper. If they are not set properly, the paper may not be fed properly.
- When setting a paper, close the auxiliary tray. However, when settting a long paper (paper length of 157 mm or longer) do not need to close it.
- When printing on long paper (paper length of 157 mm or longer), remove the printed paper frequently. Continuing to print without removing the printed paper can cause paper jams or printing failure.

6 Raise the feeder lift tray.



1. Press the TRAY key.

- Wait for the feeder lift tray to stop.
- If the power lamp is blinking, press the Power key to turn on the printer. (P.7)

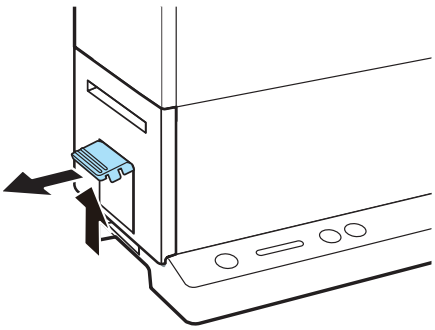
CAUTION

- When the feeder lift tray is moving, do not touch it. Doing so can cause injury or malfunction.

IMPORTANT

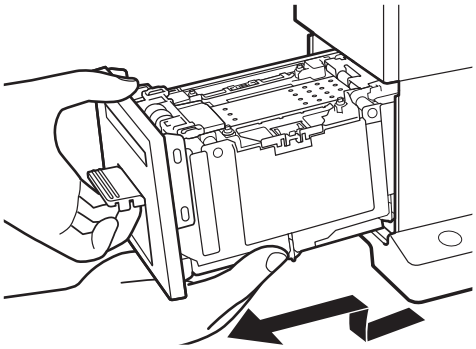
- Do not adjust the side guides after the tray has been raised. It can cause paper jams.

7 Check the paper guide positions.



1. Raise the transport unit lever, and pull the transport unit out.

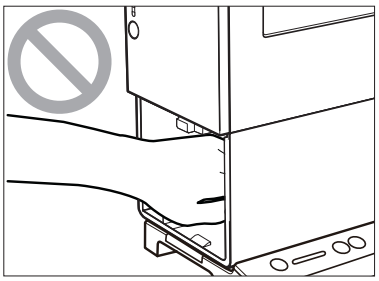
- If you are using the delivery tray (option), remove it.



2. Pull out the transport unit with both hands as shown in the figure.

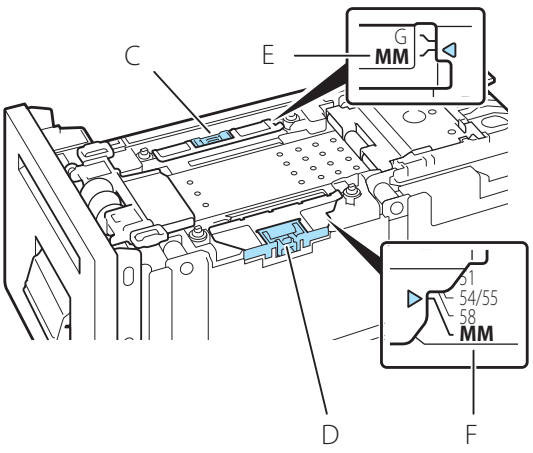
CAUTION

- When pulling the transport unit out of the printer, hold it firmly with both hands so that it does not fall.
- Do not put your hands into inside of the printer. Failures or physical injury could result. Further, your hands or clothing may get dirty with ink adhered inside of the printer.



IMPORTANT

- When pulling the transport unit out of the printer or inserting it in the printer, be careful not to hit it strongly against the table or shelf. The surface of the table or shelf could be damaged.

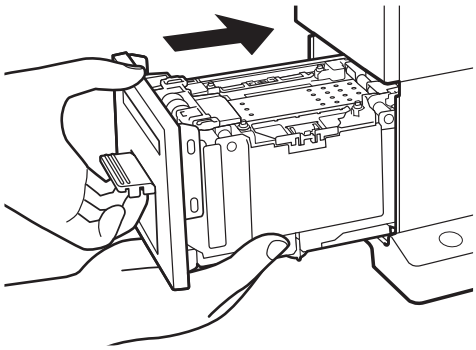


3. As shown in the figure, check that the paper guide is set to the MM position.

- While holding the paper guides (C and D) with your fingers, adjust them to the paper width indexes (E and F). For example, the figure on the left shows adjustment to guide position MM.

IMPORTANT

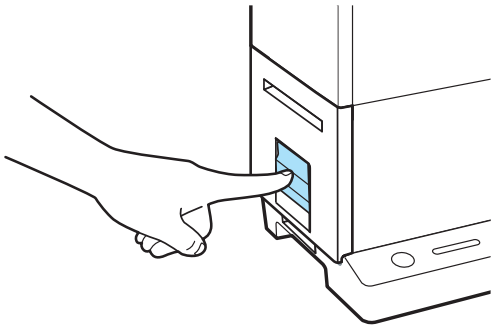
- When performing micro margin printing, be sure to set the paper guides to the MM position. Otherwise, the transport belt, paper guides, or other areas may be stained with ink. If stain occurs, clean the transport unit. (P.126)
- Normally, there is no need to set the paper guides to positions other than MM.
  You only need to adjust the paper guides to the paper width when paper jams or printing surface rubbing does not improve. (P.157)



4. Slowly insert the transport unit as far as it will go.

- As you do this, be careful not to touch the paper guides causing their positions to be changed.

5. Push the transport unit lever until it clicks.



CAUTION

- When returning the transport unit back inside the printer, be careful not to get your fingers caught between the transport unit and the inside body of the printer.

IMPORTANT

- If the printer will not be used for a long period, remove paper from the printer to prevent it from discoloring and curl. Put the removed paper in the supplied plastic bag or box, and store it in a place which is not exposed to high temperature, high humidity, and direct sunlight.
- It is recommended that unpacked paper be used up in the shortest time possible.
- If you change to paper of different type or size, change the printer driver setting. Printing on paper of a wrong size could stain the transport belt, paper guides, or other areas. If stain occurs, clean the transport unit. (P.126)
- Store the transport unit with it set in the printer.

How to Print

The basic printing procedure is described below.

Making Prints

This section explains how to micro margin printing using Business Card 55.0 x 91.0 mm Matte coated paper.

NOTE

- The micro margin printing is a function to print with a minimum margin (Top/Bottom/Left/Right: 0.3 mm).
- The printing procedure may be different depending on the application software you use. For more details, refer to the Instruction Manual that comes with your application software.
- Set the time that elapses before the computer enters the resting or sleep state to "No." The printer is designed to discard the data received from the computer when the computer returns from the resting or sleep state to the operating state.
  To set the resting and sleep states of the computer, select [Control Panel] – [Power Options]. For more details, refer to the Instruction Manual for Windows.

1 In the application software, set the paper size of the document.

IMPORTANT

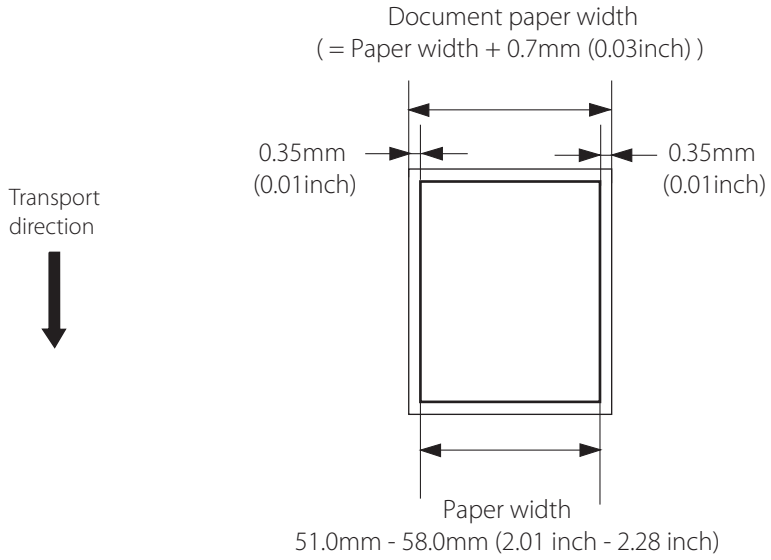
- For instructions on how to check the paper size specified in the printer driver, refer to the Instruction Manual that comes with your application software.
- If you can set the margin on your application software, set all margins to "0."

NOTE

- If the paper size cannot be obtained from the printer driver, follow the procedure below to set the document paper size. In micro margin printing, create the document larger than the actual paper size.

● Document paper width

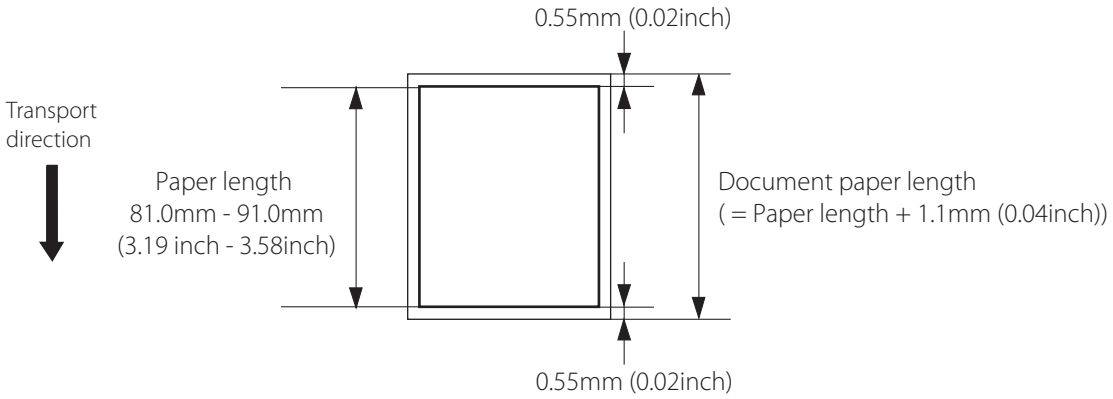
Set the paper width 0.7 mm (0.03 inch) wider than the actual width.



● Document paper length

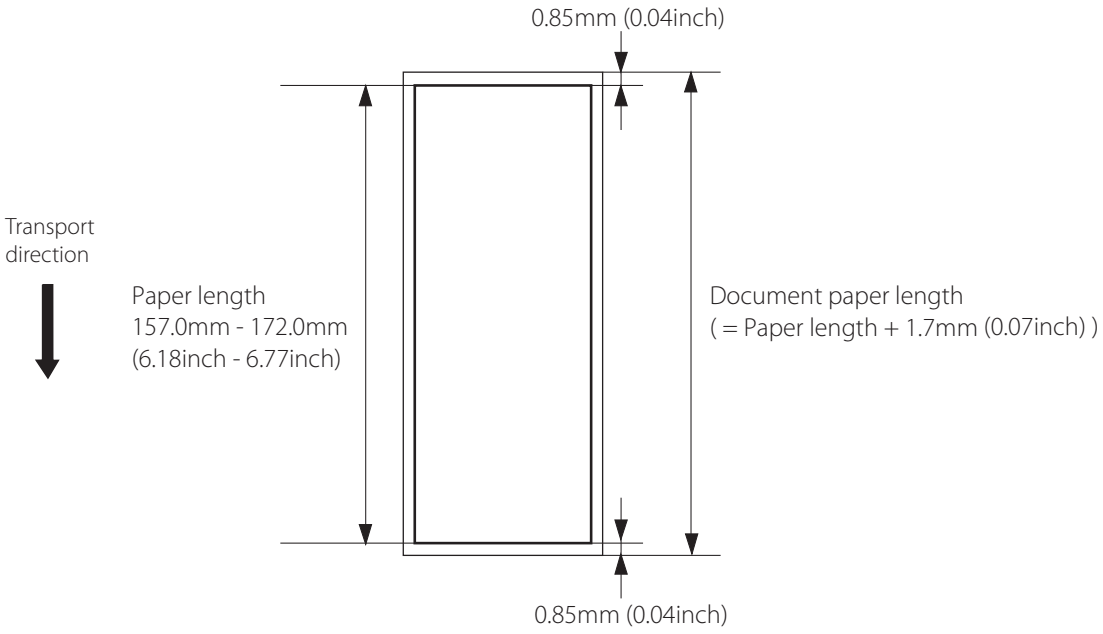
When the 81.0 mm - 91.0 mm:

Set the paper length 1.1 mm (0.04 inch) longer than the actual length.



When the 157.0 mm - 172.0 mm:

Set the paper length 1.7 mm (0.07 inch) longer than the actual length.



2 To the paper size, create a document.

IMPORTANT

- Printing does not take place in the region outside the printing area, which is, by default, 0.3 mm (0.01 inch) smaller on all sides than the actual paper size.

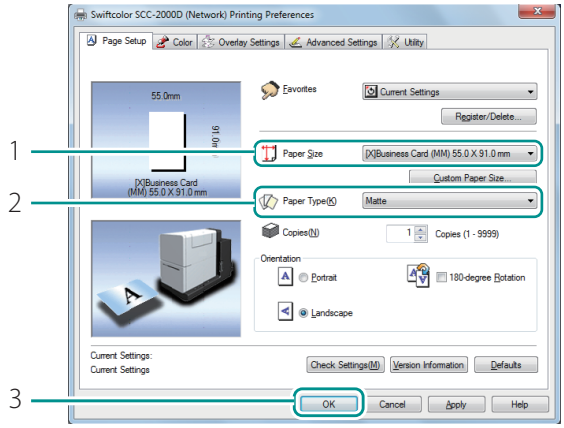
3 Open the document you want to print and then the [Print] dialog box.

Select [Print] from the [Files] menu (or the toolbar) of the application software.

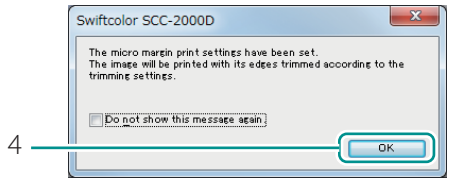
4 Open the printer driver setup window.

Select [Swiftcolor SCC-2000D], and then click [Preferences] or [Properties].

5 Set the paper size and type.



1. Select the paper size.
   - Select [[X]Business Card(MM) 55.0 x 91.0 mm].
2. Select the paper type.
   - Select [Matte].
3. Click [OK].
   - A confirmation message appears.



4. Click [OK].
   - Closing the printer properties window a displays message about the paper guide position. To prevent this message from being displayed, check the "Do not show this message again." check box and then click [OK].
   - To allow this message to be displayed again, you need to reinstall the printer driver. For the printer driver installation procedure, refer to the "Setup Guide."

IMPORTANT

- The mark in front of the paper size indicates the following. Select the paper size appropriate for the printing procedure.
  - [X] Paper size for micro margin printing (feature for printing with reduced margin)
  - [#] Paper size for micro margin printing on rounded corner paper
  - [ ] Paper size for normal printing

- Selecting a wrong paper size could stain the transport area and paper guides. If stain occurs, clean the transport unit. (P.126)

NOTE

- Selecting a wrong paper type could fail in making prints with the required level of quality.

6 Click [Print] in the [Print] dialog box.

Printing starts.

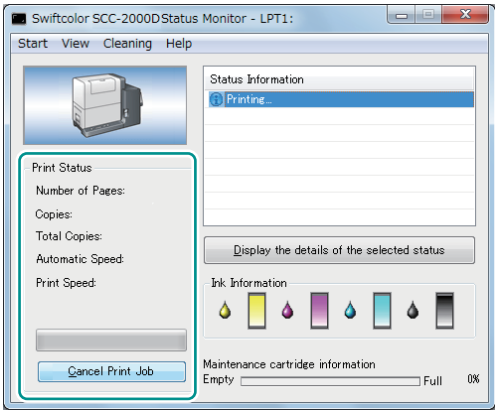
IMPORTANT

- While the printer is printing, keep the following precautions:
  - Do not open the ink tank cover and transport unit lever. It could cause a printer failure.
  - Do not give a shock or vibration to the printer. It could cause a paper jam or printing failure.
- Before starting printing, check that the paper set in the printer is the same as the paper set with the printer driver in terms of size, shape and type.
- Do not pull the paper during printing through the ejection slot. It could cause a printing failure.
- If the printer is turned off while it is operating (for example, the power plug or AC adapter is disconnected or a blackout occurs), do not draw out the transport unit immediately. Turn the printer on again before performing any operation. Drawing out the transport unit forcibly without turning the printer on again could cause a machine failure.
- If the application software and printer driver have the same setting items such as Paper Size, Orientation, and Copies, the settings made by the application software may be given priority.
- The print settings made by the application software are used only by this application software. To make print settings which can be commonly used by multiple application software, open the [Devices and Printers] folder. For more details. (P.31)
- If the paper size you want to select is not found in the list, set the Custom Paper Size (or the Customize). (P.42)
- Do not print outside the printable area of the dedicated paper.
- For details setting of micro margin printing, refer to "Setting Micro Margin Printing (P.48)".

NOTE

- **Checking the Current Printing Status.**

  The status monitor allows you to check the printing status.



[Number of Pages]

The number of the page currently being printed is displayed.

[Copies]

The progress of printing of each page is displayed.

For example, when the printer is set so as to print ten copies of a document consisting of three pages,"0001/0010" to "0010/0010" are displayed sequentially during printing of the first page. The progress bar shows the number of printed copies of each page.

[Total Copies]

The total number of copies which have been printed by the current job is displayed.

[Automatic Speed]

Whether the automatic speed function is turned ON or OFF is displayed.

[Print Speed]

The currently set print speed is displayed.

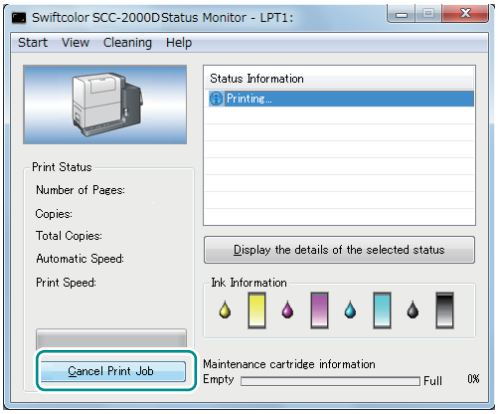
- **Displaying Help Topics**

  Displaying help topics from the Settings screen of the printer driver allows you to read descriptions of functions and setting procedure.

  - To read detailed descriptions of functions and setting procedure
    When you want to read detailed description of printer driver functions and setting procedure, click [Help] on the Settings screen of the printer driver.
  - To read the description of a setting item
    Right-click on the character string of the setting item, and then click [Help].

Cancelling Printing

To cancel printing, click [Cancel Print Job] on the status monitor.



NOTE

- **Stopping Printing Temporarily**
  To stop printing temporarily, press the Pause key on the operation panel.
- Besides the status monitor, you can cancel printing from the Print Queue window (a window in which print data order is registered). For more details, refer to the Instruction Manual for Windows.

Configuring Print Settings

Configure print settings using the printer driver.
Methods of displaying the printer driver and the setup window are described below.

Opening the Printer Driver

The methods of displaying the printer driver setup window and the effective ranges of settings are as follows:

- **Opening the printer driver setup window from the application software** (P.31)
  The settings are effective only for the currently open document.
- **Opening the printer driver setup window from the [Devices and Printers] folder** (P.32)
  The settings are effective for all documents.
- **Opening the Properties window** (P.32)
  Display the [Utility] sheet to perform printer maintenance or change printer settings.

Opening the Printer Driver Setup Window from the Application Software

NOTE

- The procedure may be different depending on the application software you use. For more details, refer to the Instruction Manual that comes with your application software.

1 Select [Print] from the [Files] menu or toolbar of the application software.

The [Print] dialog box appears.

2 Select [Swiftcolor SCC-2000D] and then click [Preferences] (or [Properties]).

The printer driver setup window appears.

Opening the Printer Driver Setup Window from the [Devices and Printers] Folder

1 Select [Devices and Printers] from the [Start] menu.

- Windows 8:
  Locate the pointer at the upper right or lower left edge of the Start of Windows to display the Charm Bar and then click or tap [Settings] -> [Control Panel] -> [Hardware and Sound] -> [Devices and Printers] in this order.

2 Right-click on the Printer icon and then select [Printing Preferences].

The printer driver setup window appears.

IMPORTANT

- The settings that can be configured on the [Utility] sheet of the printer properties window are different from those that can be configured on the [Utility] sheet of the printing preferences window. (P.39)

Opening the Printer Properties Window

1 Select [Devices and Printers] from the [Start] menu.

- Windows 8:
  Locate the pointer at the upper right or lower left edge of the Start of Windows and then click or tap [Settings] -> [Control Panel] -> [Hardware and Sound] -> [Devices and Printers] in this order.

2 Right-click on the Printer icon, and then select [Printer Properties].

The printer properties window appears.

IMPORTANT

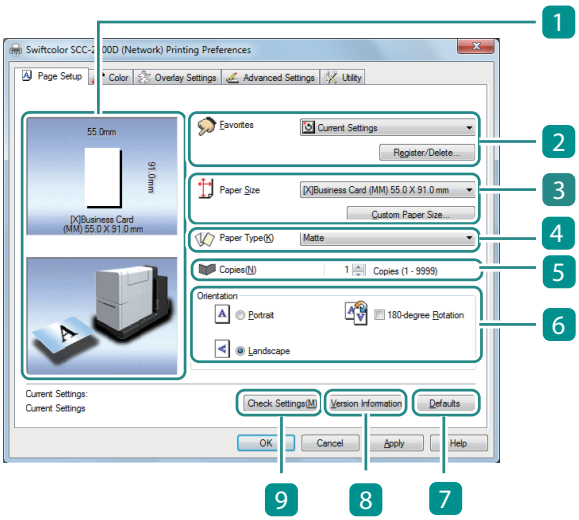
- Sheets related to the Windows functions and sheets related to print settings are displayed on the printer properties window. The sheets related to print settings are the [General] sheet and the [Utility] sheet. For the sheets related to Windows functions, refer to the Instruction Manual that comes with Windows.
- The settings that can be configured on the [Utility] sheet of the printer properties window are different from those that can be configured on the [Utility] sheet of the printing preferences window. (P.39)

Printer Driver Setup Window Configuration

The printer driver setup window consists of the [Page Setup] sheet, [Color] sheet, [Overlay Settings] sheet, [Advanced Settings] sheet, and [Utility] sheet.

[Page Setup] Sheet

On the [Page Setup] sheet, can be configured paper-related settings and specify the number of copies, print orientation, etc.



1 **Preview window showing the current settings**

The current settings of paper size and print orientation are shown.

Upper pane: Paper Size (3)

Lower pane: Orientation (6)

2 **Favorites** (P.76)

Register frequently used so that they can be handily selected from the pull-down menu.

Clicking [Register/Delete...] allows to register or delete a favorite setting.

3 **Paper Size**

Select the size of the paper to use for printing from the pull-down menu.

Clicking [Custom Paper Size...] allows to set the paper size as desired (P.42)

4 **Paper Type**

Select a paper type from the pull-down menu.

5 **Copies**

Specify the number of copies to print.

6 Orientation

Specify the orientation of paper to print on.

7 [Defaults]

Clicking this button restores the default settings on the [Page Setup] sheet.

8 [Version Information]

Clicking this button allows to check the information about the version and copyright of the printer driver.

On the displayed screen, clicking [Obtain Printer Information] displays the information of the currently connected printer

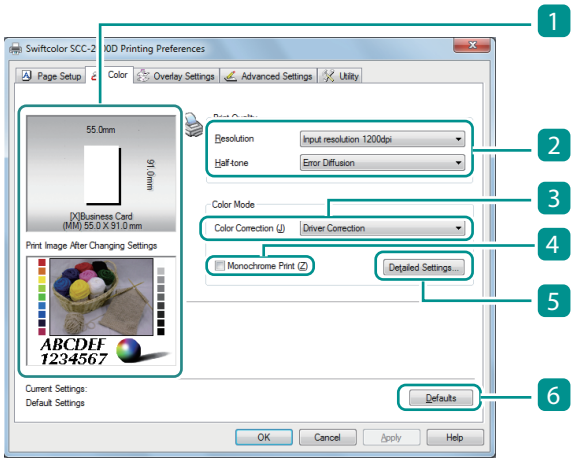
9 [Check Settings]

Clicking this button allows to check the print settings registered in [Favorites].

On the displayed screen, clicking [Copy] allows you to copy the settings. To read the copied settings, paste them to the page of application software such as Notepad.

[Color] sheet

On the [Color] sheet can be configured settings of print quality and color.



1 Preview window showing the current settings

The paper size currently set on the [Page Setup] sheet and the print image finished with color correction on the [Color] sheet are displayed.

Upper pane: Paper Size
([Page Setup] sheet 3)
Lower pane: Print image after color correction

2 Print Quality (P.56)

Using [Resolution] and [Half-tone], printing can be excuted with your desired print quality.

3 Color Correction (P.58)

Set the color correction method.

4 Monochrome Print (P.59)

Select this check box to make black-and-white prints.

5 [Detailed Settings...]

Clicking this button displays the [Detailed Settings] dialog box. Use this dialog box to correct color more finely.

6 [Defaults]

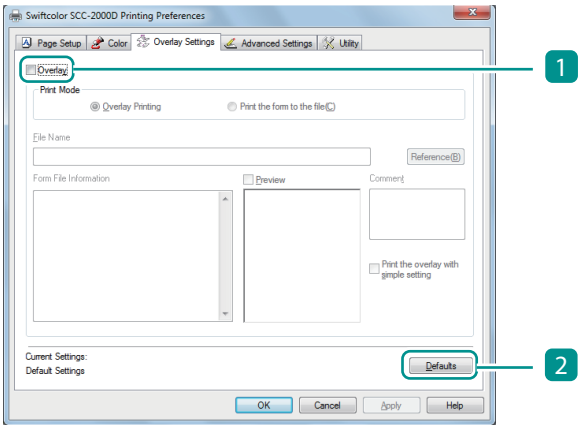
Clicking this button restores the default settings on the [Color] sheet.

NOTE

- The settings configured on the [Detailed Settings] dialog box do not change even if you click [Defaults] on the [Color] sheet.

[Overlay Settings] sheet

On the [Overlay Settings] sheet, can be configured settings related to overlay printing.



1 **Overlay** (P.68)

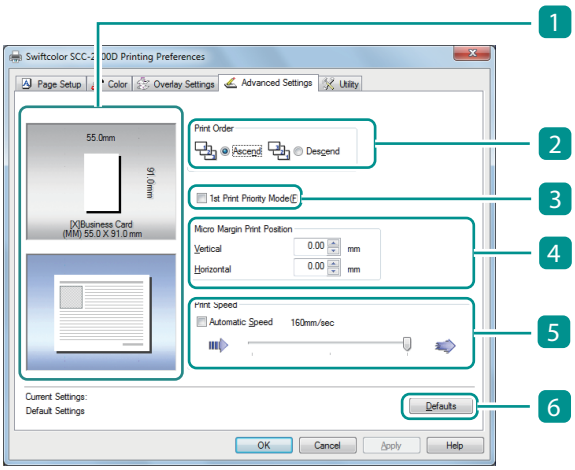
Check this check box when carrying out overlay printing.

2 **[Defaults]**

Clicking this button restores the default settings on the [Overlay Settings] sheet.

[Advanced Settings] sheet

On the [Advanced Settings] sheet, can be configured settings the print layout and print speed.



1 Preview window showing the current settings

The currently selected paper size is displayed.
([Page Setup] sheet 3)

2 Print Order

Specify the order of printing.
To print from the first page, select [Ascend]. To print from the last page, select [Descend].

3 1st Print Priority Mode (P.73)

Checking this check box accelerates printing on the first sheet of paper.

4 Micro Margin Position

Adjusting the print position of the micro margin printing.

5 Print Speed (P.74)

Checking this check box allows you to set the print speed.

6 [Defaults]

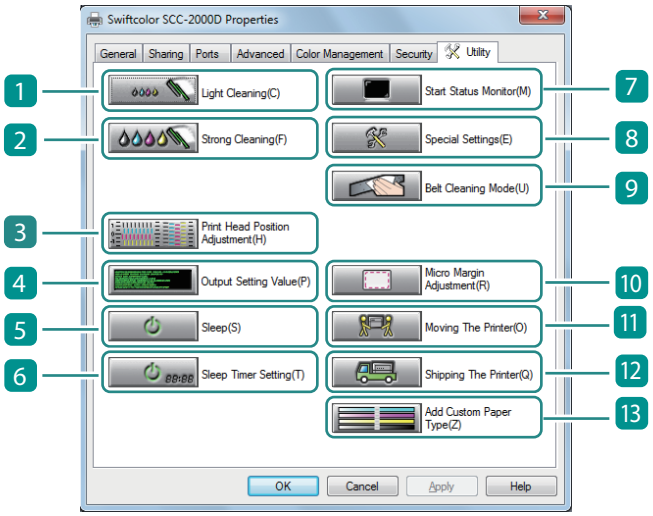
Clicking this button restores the default settings on the [Advanced Settings] sheet.

NOTE

- The settings on the [Print Order] do not take effect when the [Enable advanced printing features] check box is not checked on the [Advanced] sheet displayed on the printer properties window.

[Utility] sheet

On the [Utility] sheet, it is possible to perform printer maintenance or change printer settings.



1 [Light Cleaning] (P.105)

Clicking this button cleans the print head.

2 [Strong Cleaning] (P.107)

Clicking this button cleans the print head stronger than [Light Cleaning].

3 [Print Head Position Adjustment]* (P.109)

Clicking this button allows to adjust the print head position.

4 [Output Setting Value] (P.122)

Clicking this button outputs the current settings of this printer.

5 [Sleep] (P.9)

Clicking this button puts the printer into the sleep state.

6 [Sleep Timer Setting]* (P.11)

Clicking this button allows to set the time that elapses before the printer is put into the sleep state and the time that elapses before the printer is turned off.

7 [Start Status Monitor] (P.88)

Clicking this button displays the status monitor.

8 [Special Settings]* (P.80)

Clicking this button allows to configure special settings of this printer.

Normally, do not use this button.

9 [Belt Cleaning Mode]* (P.131)

Clicking this button cleans the transport belt.

10 [Micro Margin adjustment]*

Clicking this button sets the printer's trimming position and rounded corner size for micro margin printing.

11 [Moving The Printer]* (P.168)

Clicking this button makes preparations for moving the printer indoors.

12 [Shipping The Printer]* (P.172)

Clicking this button makes preparations for transporting this printer.

13 [Add Custom Paper Type]* (P.84)

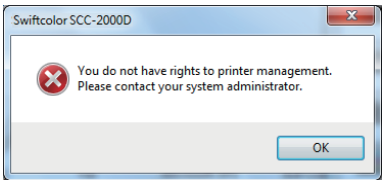
Allows the user to adjust ink jetting amounts and register them along with the paper type of new paper.

* Items displayed on the [Utility] sheet of the printer properties window.

IMPORTANT

- The settings that can be configured on the [Utility] sheet of the printer properties window are different from those that can be configured on the [Utility] sheet of the printing preferences window.
- When configuring settings on the [Utility] sheet, the printer must be powered and connected to the computer.
- **About [Utility] sheet setting requiring administrative privileges over this printer**

  Administrative privileges over this printer are required when configuring settings (marked with *) on the [Utility] sheet of the printer properties window.
  If a user without administrative privileges over this printer attempts to configure settings, the following message appears.



  If this message appears, contact the administrator of the computer and proceed with operation following the procedure below.

1. Select [Devices and Printers] from the [Start] menu of Windows.
   - Windows 8:
     Locate the pointer at the upper right or lower left edge of the Start screen of Windows to display the Charm Bar, and then click or tap [Settings] -> [Control Panel] -> [Hardware and Sound] -> [Devices and Printers] in this order.
2. Right-click on the Printer icon and then select [Printer Properties].
   The printer properties window appears.
3. On the [General] sheet, click [Change Properties].
   If the [User Account Control] screen appears, enter the password of the administrator of this printer.

Chapter 2

Printing

This chapter describes printing functions.

Printing with the Custom Paper Size 42
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Changing Print Quality and Adjusting Color 56
Carrying out Overlay Printing 69
Setting Paper Feed Speed 73
Registering Print Settings You Use Frequently 76
Changing Special Settings of Printer 80
Registering Paper Type 84

Printing with the Custom Paper Size

It is possible to register in the printer driver a desired paper size (width, length, etc.) which cannot be selected from the [Paper Size] pull-down menu of the printer driver as a "Custom paper size" or an "Customize." Effective ranges of paper size settings are as follows:

- **Custom paper size**

  This setting is effective for all documents.
  Registering this setting as a custom paper size allows can be registered to select it from the [Paper Size] pull-down menu. Up to 50 different paper sizes.

- **Customize**

  This setting is effective only for the currently open document.

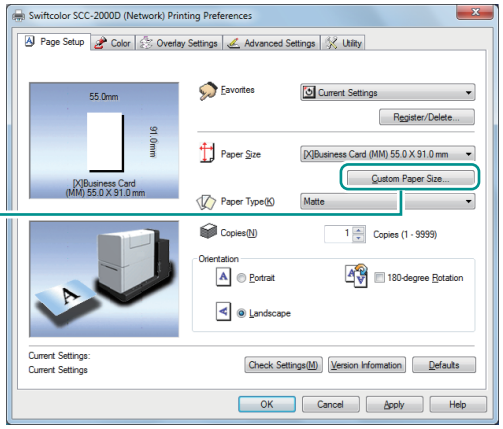
The procedure for registering the size of a unique paper, for example, "paper_A" as a custom paper size is described below.

1 Open the printer driver setup window.

Open the printer driver setup window from the [Devices and Printers] folder. (P.32)

- When setting the customize:
  Open the printer driver setup window from the application software. (P.31).

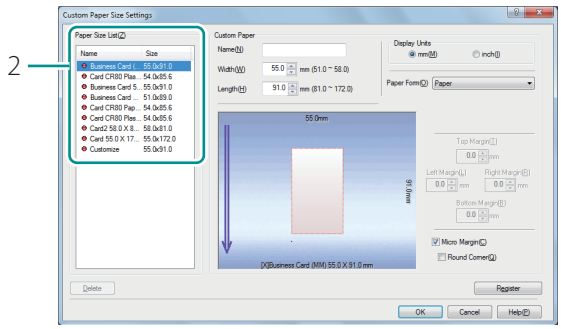
2 Display the screen for registering the paper.



1. Click [Custom Paper Size] on the [Page Setup] sheet.

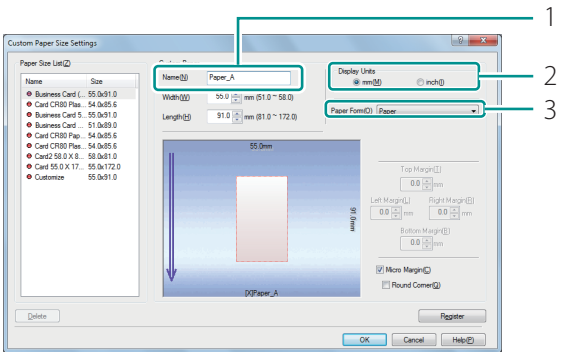
- When setting the customize:
  Select [Customize] from the [Paper Size] pull-down menu on the [Page Setup] sheet, and then click [Custom Paper Size...].

  Go to step **3**.



2. Select a basic paper size from [Paper sizes list].

3 Enter information about new paper.



1. Enter the name of new paper in the [Name] text box.

- Can be entered up to 15 characters.
  Can not be used spaces and tabs.
- When setting the customize:
  Can not be changed the paper name.

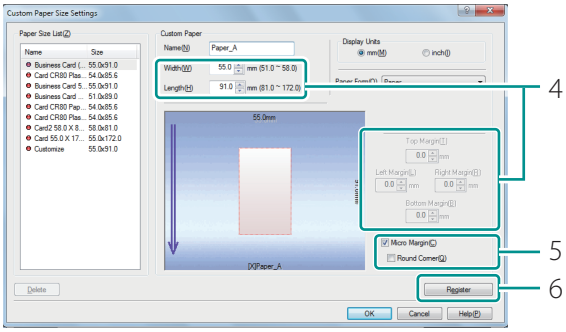
2. Select a unit of display.

3. Select a paper from the [Paper Form] pull-down menu.

[Paper]
- Paper of thickness 0.21 mm - 0.37mm

[Card20-30mil]
- Paper of thickness 0.76mm
- Plastic card

[Sheet Label]
- Label of cut sheet



4. Enter the paper size.

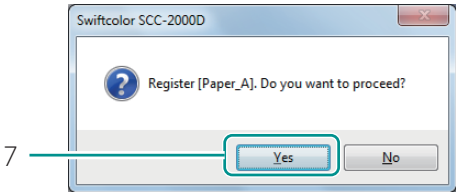
- Items to be set differ depending on the paper form. For the ranges of settable values, see "Ranges of Settable Custom Paper Sizes (P.46)"

5. To perform micro margin printing, check the [Micro Margin] check box.

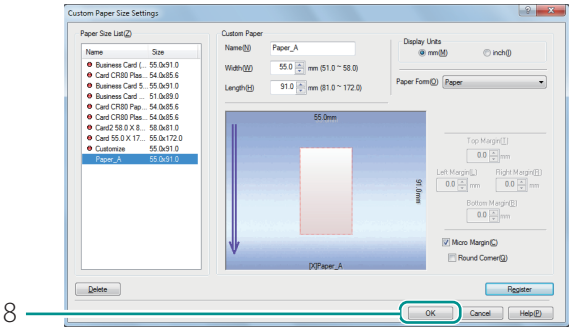
- To perform micro margin printing on round corner paper, also check the [Round Corner] check box.
- Micro margin printing cannot be specified for the [Sheet Label] paper form.

6. Click [Register].

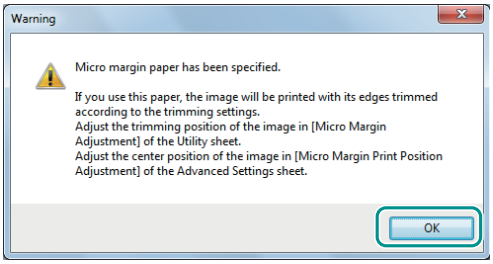
- A confirmation message appears.



7. Click [Yes].



8. Click [OK].



- If you register a micro margin printing paper size and close the Printing Preferences window, a message window appears. Check the information, and click [OK].

NOTE

- For details setting of micro margin printing, refer to "Setting Micro Margin Printing (P.48)".

4 Complete registration of the paper size.

Click [OK] in the printer driver setup window.
Printing will take place according to the specified paper size.

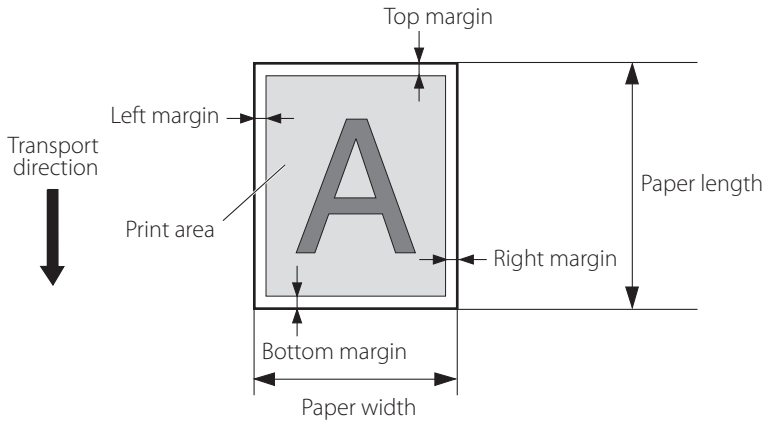
NOTE

- **Deleting the Registered Custom Paper Size**
  Select the paper size you want to delete from [Paper Size List] and then click [Delete].
- Can not be deleted preregistered default paper sizes (marked with).

Ranges of Settable Custom Paper Sizes

Settable paper sizes differ depending on the paper form. Enter values within the ranges indicated in the table below.

● **Paper/Card20-30mil**

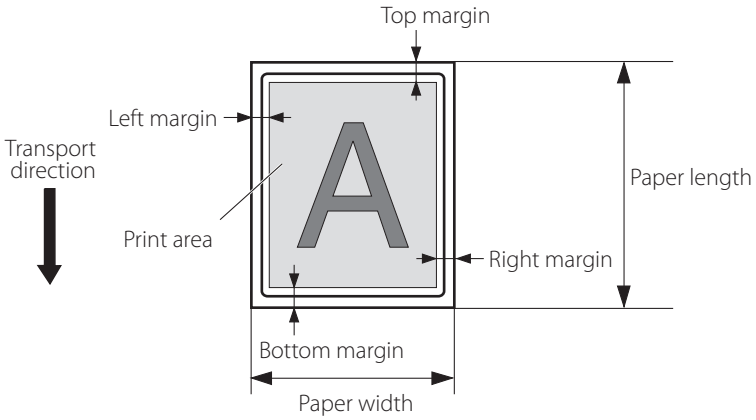


Paper width	51.0 mm - 58.0 mm (2.01 inch - 2.28 inch)
Paper length	81.0 mm - 91.0 mm (3.19 inch - 3.58 inch) 157.0 mm - 172.0 mm (6.18 inch - 6.77 inch)
Top margin	1.5 mm - (Paper length - 1.0 - Bottom margin) mm (0.06 inch - (Paper length - 0.04 - Bottom margin) inch)
Bottom margin	1.5 mm - (Paper length - 1.0 - Top margin) mm (0.06 inch - (Paper length - 0.04 - Top margin) inch)
Left margin	2.0 mm - (Paper length - 1.0 - Right margin) mm (0.08 inch - (Paper length - 0.04 - Right margin) inch)
Right margin	2.0 mm - (Paper length - 1.0 - Left margin) mm (0.08 inch - (Paper length - 0.04 - Left margin) inch)

IMPORTANT

- Paper length between 91.1 mm to 156.9 mm (3.59 inch to 6.17 inch) cannot be specified.

● Sheet Label



Paper width	51.0 mm - 58.0 mm (2.01 inch - 2.28 inch)
Paper length	81.0 mm - 91.0 mm (3.19 inch - 3.58 inch) 157.0 mm - 172.0 mm (6.18 inch - 6.77 inch)
Top margin	2.5 mm - (Paper length - 1.0 - Bottom margin) mm (0.10 inch - (Paper length - 0.04 - Bottom margin) inch)
Bottom margin	2.5 mm - (Paper length - 1.0 - Top margin) mm (0.10 inch - (Paper length - 0.04 - Top margin) inch)
Left margin	3.0 mm - (Paper length - 1.0 - Right margin) mm (0.12 inch - (Paper length - 0.04 - Right margin) inch)
Right margin	3.0 mm - (Paper length - 1.0 - Left margin) mm (0.12 inch - (Paper length - 0.04 - Left margin) inch)

IMPORTANT

- Paper length between 91.1 mm to 156.9 mm (3.59 inch to 6.17 inch) cannot be specified.

Setting Micro Margin Printing

The procedure for setting micro margin printing is described below.

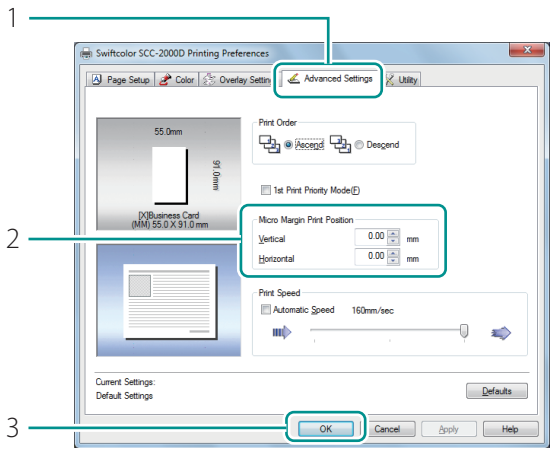
Adjusting the Print Position

If the result of micro margin printing is off centered, adjust the print position.

1 Look at the printed result, and check how it is off centered.

2 Open the printer driver setup window. (P.31)

3 Adjust the print position.



1. Click the [Advanced Settings] tab.

2. Set the [Micro Margin Print Position Adjustment] values.

   [Vertical]

   Set this when the printing is offset vertically. The more negative the value, the more the upward shift in the image. The more positive the value, the more the downward shift.

   [Horizontal]

   Set this when the printing is offset horizontally.

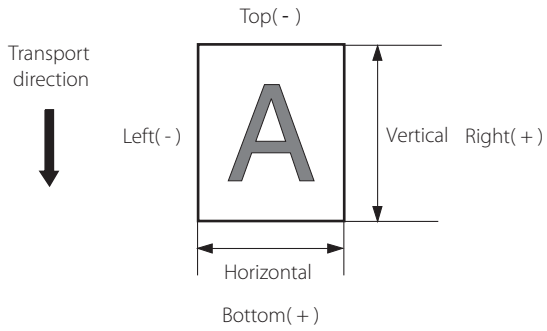
   The more negative the value, the more the leftward shift. The more positive the value, the more the rightward shift.

3. Click [OK].

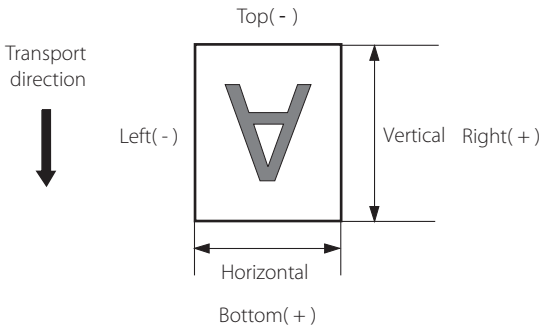
NOTE

- The print position adjustment according to the print orientation is as follows:

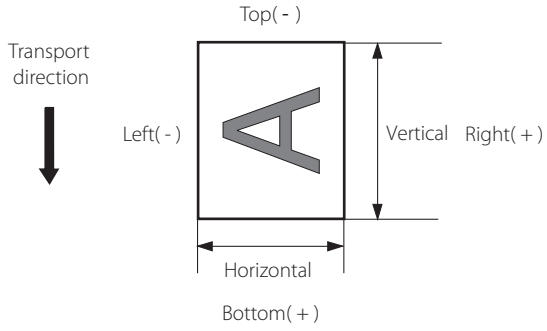
Portrait,180-degree Rotation "OFF"



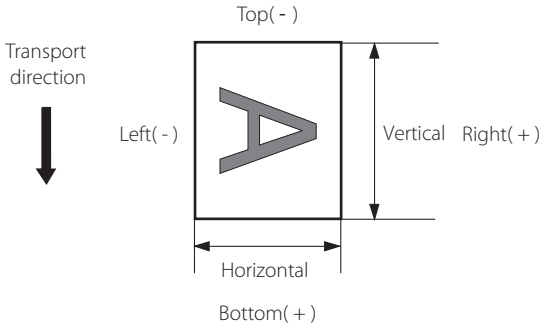
Portrait,180-degree Rotation "ON"



Landscape,180-degree Rotation "OFF"



Landscape,180-degree Rotation "ON"



- The print position adjustment range varies depending on the paper length as follows:

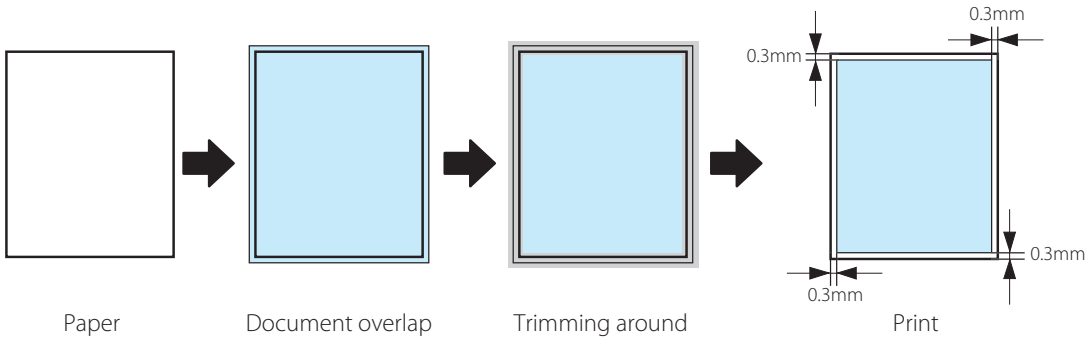
	Paper length 81.0 mm - 91.0 mm	Paper length 157.0 mm - 172.0 mm
Vertical	- 0.55 mm - 0.55 mm	- 0.85 mm - 0.85 mm
Horizontal	- 0.35 mm - 0.35 mm	- 0.60 mm - 0.60 mm

- If you enter a value outside the adjustable range, the value is automatically set to the nearest allowable value.

Adjusting the Trimming Position

Adjust the position at which the document is to be trimmed.
In micro margin printing, the periphery around the area where the paper and document overlap is trimmed before printing is performed. The standard trimming position is 0.3 mm (0.01 inch) smaller on all sides than the paper size.
To perform micro margin printing on round corner paper, adjust the trimming position using [Round Corner Size Adjustment].

- Micro margin printing



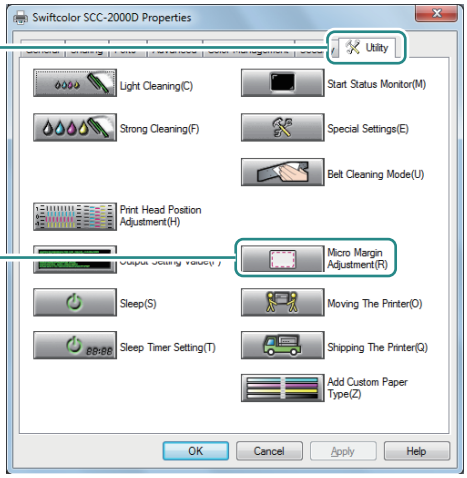
IMPORTANT

- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".
- When printing is in progress or an error has occurred, you cannot change the set trimming position.

1 Check that paper is set in the printer.

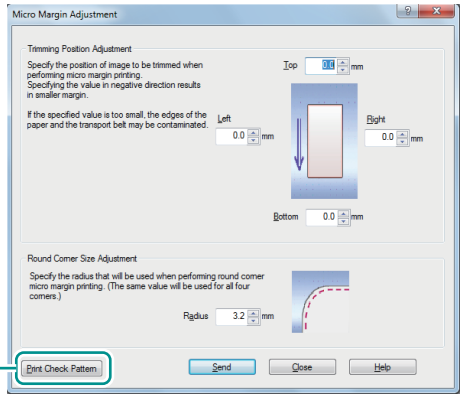
2 Open the properties window of the printer. (P.32)

3 Display the [Micro Margin Adjustment] dialog box.



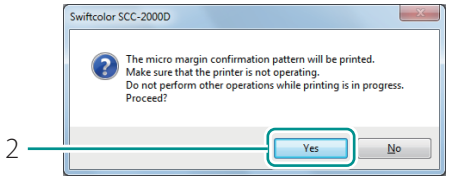
1. Click the [Utility] tab.
2. Click [Micro Margin Adjustment].

4 Print check patterns.



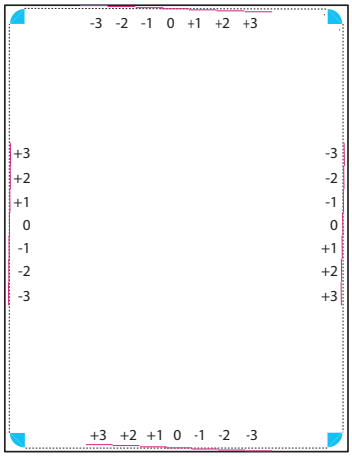
1. Cilck [Print Check Pattern].

- A confirmation message appears.



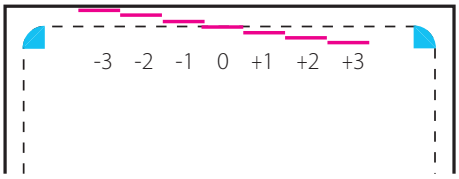
2. Cilck [Yes].

Transport direction



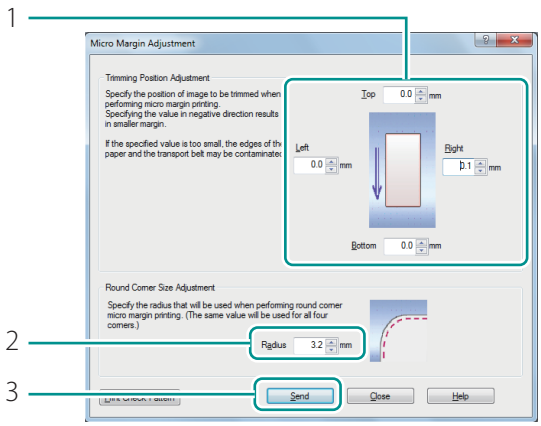
- Printing of adjustment check patterns.

5 Look at the micro margin check pattern, and check the adjustment value.



- The current trimming position is "0" (0.0 mm).
- For example, if you want to adjust the trimming position to the "+1" position of the pattern, read it to mean "+0.1 mm."
- The quadrants at the four corners are the trimming positions for round corners.

6 Adjust the trimming position.



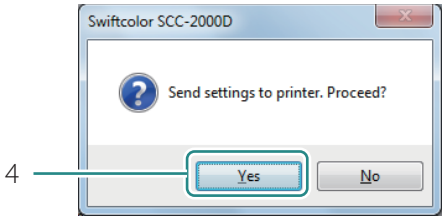
1. Enter the trimming position.

- The current trimming position is 0.0 mm. Each of the four sides can be adjusted in the range of -0.3 mm to +0.3 mm in 0.1 mm steps. However, the adjustment range may be limited depending on the current setting.
- The more negative the value, the more the outward shift. The more positive the value, the more the inward shift.
- The more negative the value, the more the outward shift. The more positive the value, the more the inward shift.

2. For round corner paper, enter the round corner radius.

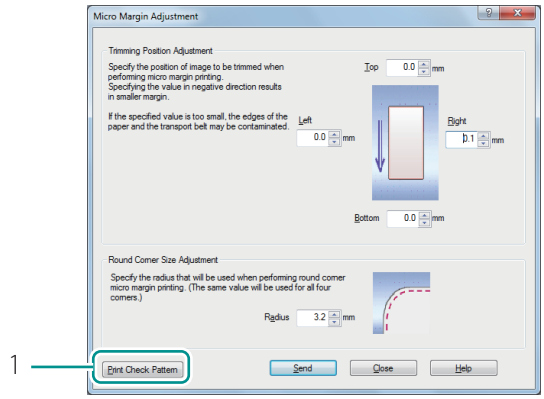
- The radius can be adjusted in the range of 0.0 mm to 5.0 mm in 0.1 mm steps.
- By default, the radius is set to 3.2 mm.
- The same value is used on all four corners.
- Elliptical arc cannot be specified

3. Cilck [Send].



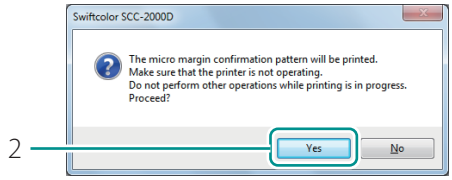
4. Cilck [Yes].

7 Print adjustment patterns again.



1. Cilck [Print Check Pattern].

- A confirmation message appears.

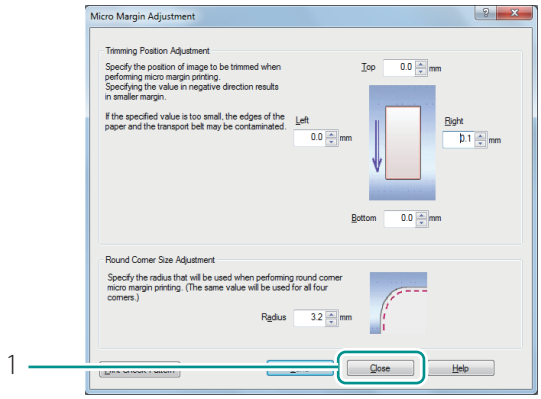


2. Cilck [Yes].

8 Check the check pattern after adjustment of the trimming position.

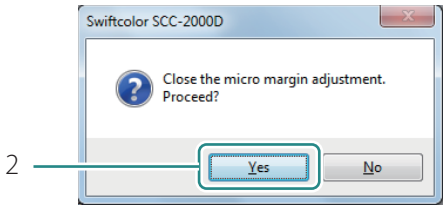
Look at the check pattern. If the trimming position is at the adjusted position, adjustment is complete.

9 Complete the trimming position adjustment procedure.



1. Cilck [Close].

- A confirmation message appears.



2. Cilck [Yes].

IMPORTANT

- Printing does not take place in the region outside the trimming position. Therefore, characters and images at the edges of the paper may not fit in the paper.
- Adjust the trimming position in small increments as you check the position with the check pattern. Setting the trimming position to the extreme negative value may stain the transport belt. If stain occurs, clean the transport belt. (P.126)

Changing Print Quality and Adjusting Color

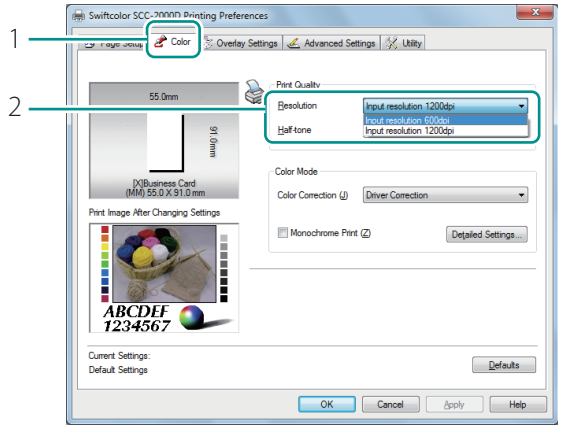
Using the printer driver, you can configure various settings related to the print quality and color in order to achieve the purpose of printing.

Printing with Print Quality Setting Changed

Print with the print quality best suited for the purpose of printing.

1 Open the printer driver setup window. (P.31)

2 Select a resolution.



1. Click the [Color] tab.

2. Select [Input resolution 1200dpi] or [Input resolution 600dpi].

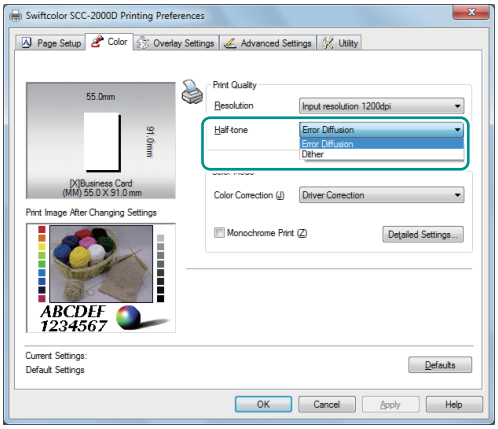
   [Input resolution 1200dpi]

   A longer printing time is compared with [Input resolution 600dpi], resulting in a high print quality.

   [Input resolution 600dpi]

   A shorter printing time is compared with [Input resolution 1200dpi], resulting in a low print quality.

3 Select a half-toning method.



1. Select [Dither] or [Error Diffusion].

   [Dither]

   This method is suitable for printing of graphics requiring clear borders between colors.

   [Error Diffusion]

   This method is suitable for printing of photos and graphics requiring subtle gradation.

NOTE

- When [Error Diffusion] is selected, a longer time is required to process data as compared with [Dither] and therefore the printing speed may decrease.

4 Complete the setting procedure.

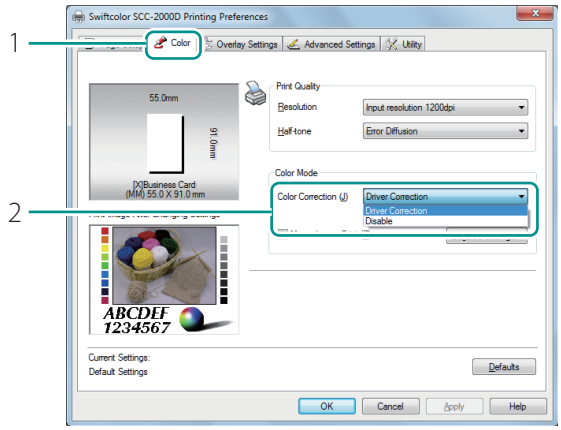
Click [OK] in the printer driver setup window.
When start printing, the document will be printed with the selected print quality.

Printing with the Color Correction Method Changed

It is possible to select a color correction method suitable for the document to be printed.

1 Open the printer driver setup window. (P.31)

2 Select a color correction method.



1. Click the [Color] tab.

2. Select "Driver Correction" or "Disable."

   [Driver Correction]

   The optimum color adjustment is made for this printer.

   [Disable]

   Image processing is performed at the highest speed without color correction. Select this method to give priority to the printing speed.

3 Complete the setting procedure.

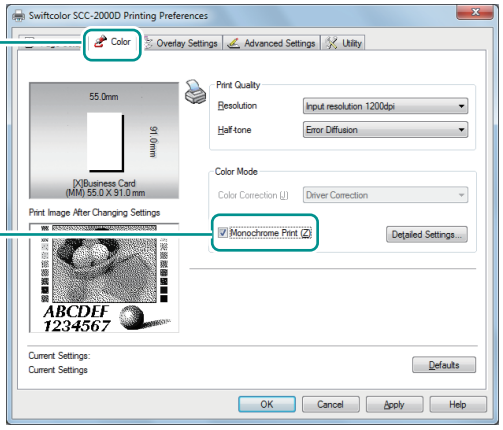
Click [OK] in the printer driver setup window.
When start printing, the document will be printed using the selected color correction method.

Printing in Black and White

Can be maked black-and-white prints of a color document.
When black-and-white prints are made, only black ink is used.

1 Open the printer driver setup window. (P.31)

2 Configure the settings for black-and-white printing.



1. Click the [Color] tab.
2. Check the [Monochrome Print] check box.

3 Complete the setting procedure.

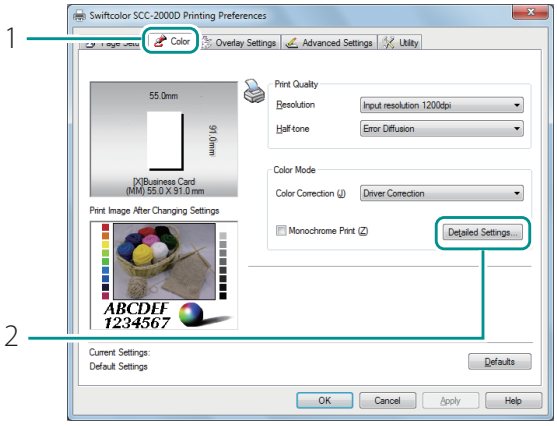
Click [OK] in the printer driver setup window.
When start printing, the document will be printed in black and white.

Setting the Sharpness

If the printed image looks blurred wholly, adjust the sharpness level. Adjusting the sharpness level can make contours clearly.

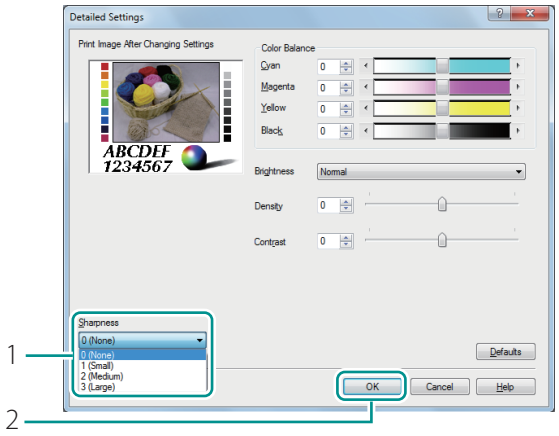
1 Open the printer driver setup window. (P.31)

2 Display the [Detailed Settings] dialog box.



1. Click the [Color] tab.
2. Click [Detailed Settings].

3 Adjust the sharpness.



1. Adjust the sharpness level.

- To increase sharpness, select one of [1(Small)], [2(Medium)], and [3(Large)].
  The more the number, the more the contour enhancement effect.
- When [0(None)] is selected, no adjustment is made to sharpness.

2. Click [OK].

4 Complete the setting procedure.

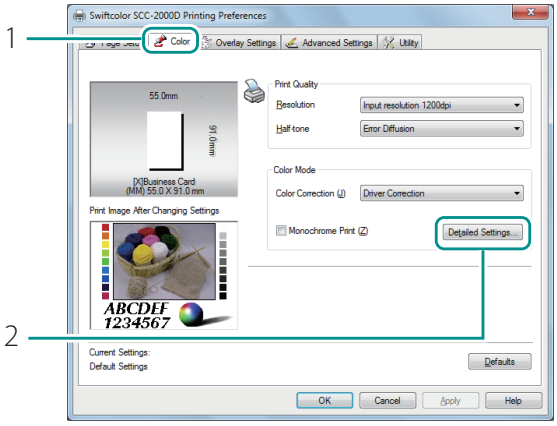
Click [OK] in the printer driver setup window.
When start printing, the document will be printed at the selected sharpness level.

Adjusting the Color Tone

If you are not satisfied with the color tone of the printed result, you can adjust it by adjusting the color balances for each colors (cyan(C), magenta(M), yellow(Y), and black(B)).

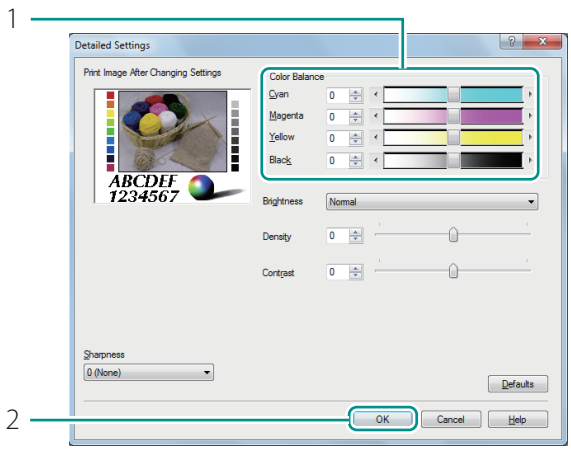
1 Open the printer driver setup window. (P.31)

2 Display the [Detailed Settings] dialog box.



1. Click the [Color] tab.
2. Click [Detailed Settings].

3 Adjust the color balance.



1. Adjust the color balance by moving the sliders for each colors.

- The center of the slidebar is the default position (0). when it is located at the The slider can be moved between -50 to +50.
  The more you move the slider to the left, the fainter becomes the color. The more you move the slider to the right, the darker becomes the color.
- Can be directly entered a value in the entry box interlocked with the slider shown on the left.

2. Click [OK].

4 Complete the setting procedure.

Click [OK] in the printer driver setup window.
When start printing, the document will be printed at the adjusted color balance.

IMPORTANT

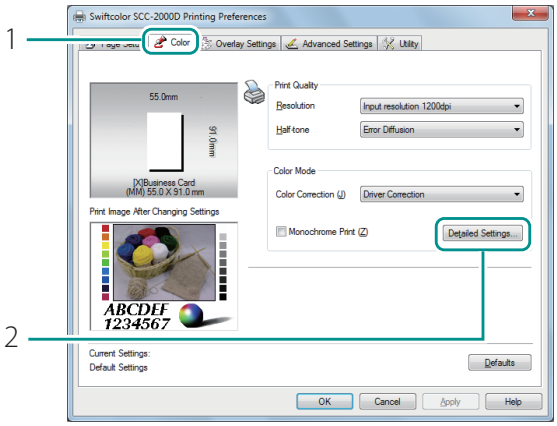
- When the [Monochrome Print] check box is checked, can not be adjusted the color balances of colors other than black.

Adjusting the Density

If you are not satisfied with the overall density of the printed result, adjustment can be made.

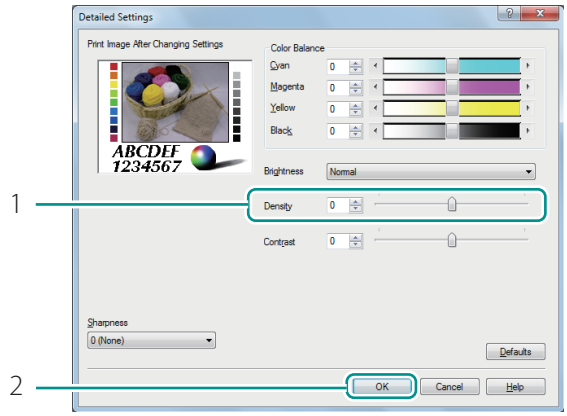
1 Open the printer driver setup window. (P.31)

2 Open the [Detailed Settings] dialog box.



1. Click the [Color] tab.
2. Click [Detailed Settings].

3 Adjust the density.



1. Adjust the density by moving the slider.

- The center of the slidebar is the default position (0). The slider can be moved between -50 to +50.
  The more you move the slider to the left, the lower becomes the density. The more you move the slider to the right, the higher becomes the density.
- Can be directly entered a value in the entry box interlocked with the slider shown on the left.

2. Click [OK].

4 Complete the setting procedure.

Click [OK] in the printer driver setup window.
When start printing, the document will be printed at the adjusted density.

IMPORTANT

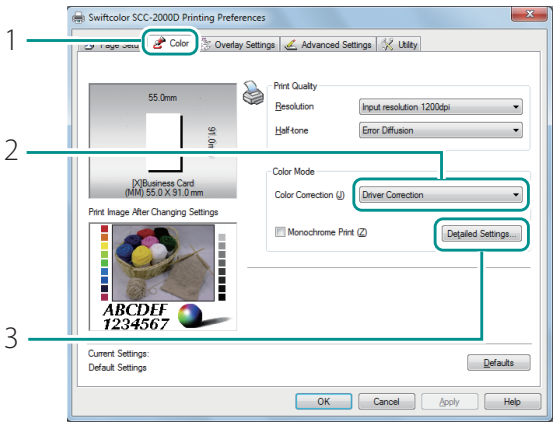
- When the [Monochrome Print] check box is checked, can not be adjusted the density.

Adjusting the Brightness or Contrast

If you are not satisfied with the overall brightness (too dark or bright) and contrast (the dark portions are not clearly distinguished from the light portions) of the printed result, adjustment can be made.

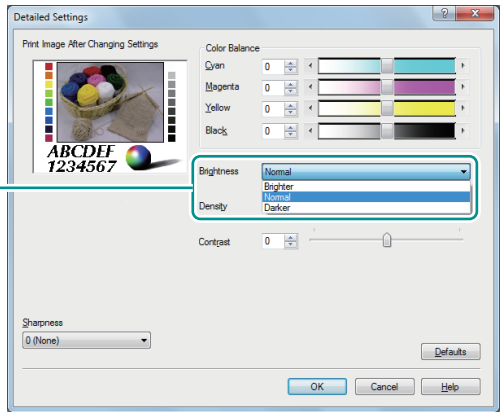
1 Open the printer driver setup window. (P.31)

2 Select a color correction method from the [Color Correction] pull-down menu and then display the [Detailed Settings] dialog box.



1. Click the [Color] tab.
2. Select [Driver Correction] from the [Color Correction] pull-down menu.
3. Click [Detailed Settings].

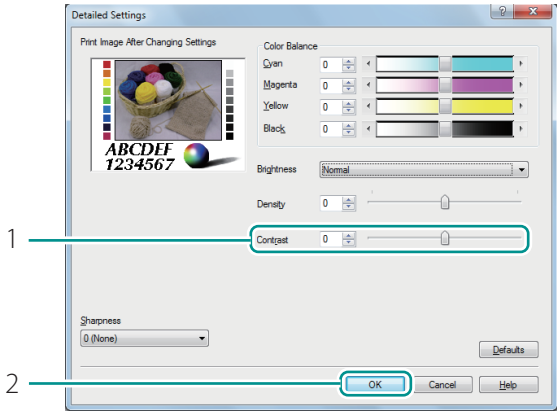
3 Adjust the brightness.



1. Select one from [Brighter], [Normal], and [Darker].

- Adjust the brightness of the intermediate colors without changing the brightness of the darkest and brightest portions.

4 Adjust the contrast.



1. Adjust the contrast by moving the slider.

- The center of the slidebar is the default position (0). The slider can be moved between -50 to +50.
  The more you move the slider to the left, the lower becomes the contrast. The more you move the slider to the right, the higher becomes the contrast.
- Can be directly entered a value in the entry box interlocked with the slider shown on the left.
- To distinguish clearly between the light portion and dark portion, increase the contrast. To increase the number of intermediate colors by reducing the difference between the light portion and dark portion, decrease the contrast.

2. Click [OK].

5 Complete the setting procedure.

Click [OK] in the printer driver setup window.
When you start printing, the document will be printed at the adjusted brightness and contrast.

IMPORTANT

- When [Disable] is selected from the [Color Correction] pull-down menu, can not be adjusted the brightness.
- When the [Monochrome Print] check box is checked, can not be adjusted the contrast.

Carrying out Overlay Printing

Overlay printing is a printer function which internally combines two pieces of data, i.e., the fixed data created in advance as a "form file" so as to be commonly printed on all pages and the data on each page of a document (variable data such as characters), and prints them together page by page.
Data using a template containing a lot of images can be printed without transferring large-capacity image data to the printer many times, allowing the data to be printed speedily.

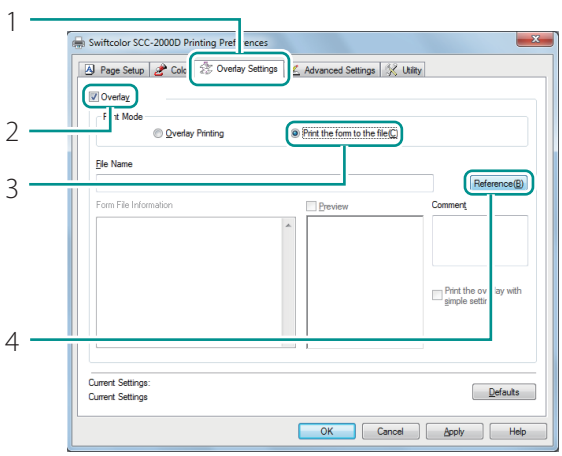
Printing a Form to a File

Send (print) fixed data (template, etc.) to the printer to create a form file.

1 Open the data to be created as a form file using the application software used to create the data.

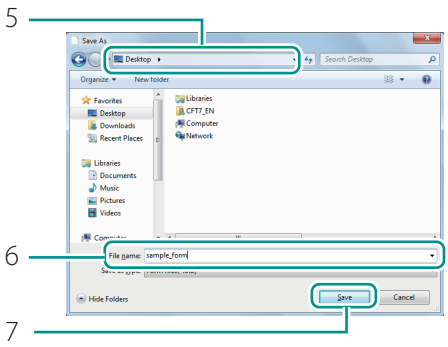
2 Display the printer driver setup window from the application software. (P.31)

3 Create a form file.



1. Click the [Overlay Settings] tab.
2. Check the [Overlay] check box.
3. Select [Print the form to the file].
4. Click [Reference].

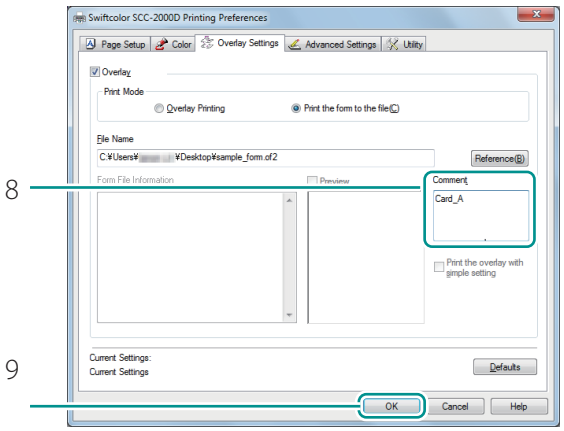
- Can be directly entered the file path name in the [File Name] entry box.



5. Specify the storage location of the form file.

6. Enter a file name.

7. Click [Save].



8. Enter a comment. (Optional)

- Can be entered up to 31 characters.

9. Click [OK].

4 Print.

Click [Print] in the [Print] dialog box.
The form file (*.of2) is stored at the specified storage location.

NOTE

- Even when two or more pages of print data are created as form files, they are stored as one file.

IMPORTANT

- When carrying out overlay printing in the server/client environment, observe the following setting precautions:
  - Store the form file (*.of2) in a shared folder that can be referenced by both the server and client.
  - The file name to be entered in the [File Name](storage location of form file (*.of2)) entry box must be a path name (e.g., \\PC-Commom\FormFolder\file.of2) that can be referenced by both the server and client over the network.

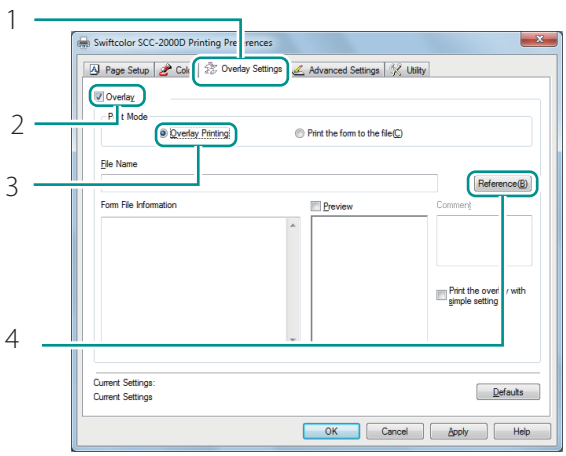
Carrying out Overlay Printing

Carry out overlay printing with a form file.

1 Open the data to be used as print data using the application software used to create the data.

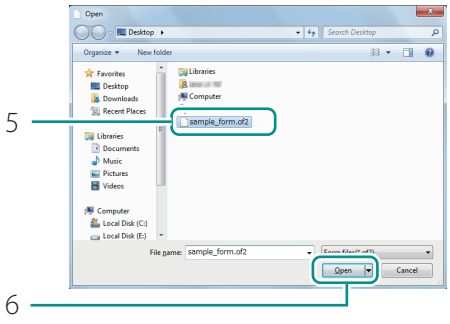
2 Display the printer driver setup window from the application software. (P.31)

3 Configure the settings for overlay printing.



1. Click the [Overlay Settings] tab.
2. Check the [Overlay] check box.
3. Select [Overlay Printing].
4. Click [Reference].

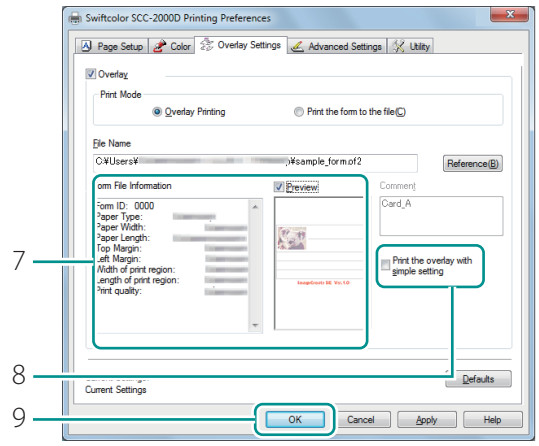
- Can you directly entered the file path name in the [File Name] entry box.



5. Specify a form file.

- Select the file with an extension ".of2."

6. Click [Open].



7. Confirm the information about the form file shown in the [Form File Information] and [Preview] panes.

- To see the preview, check the [Preview] check box.
- Some form files may not show its information in the [Form File Information] and [Preview] panes.

8. Select the method of combining the document and form data.

- To carry out overlay printing with simple settings, check the [Print the overlay with simple setting] check box.

9. Click [OK].

NOTE

- **Carrying out Overlay Printing with Simple Settings**

  When the [Print the overlay with simple setting] check box is checked, overlay printing can be completed faster than normal overly printing ([Print the overlay with simple setting] check box is not checked). However, since both the form file and document are printed in the portions where they overlap, colors of the form file and documents are mixed there.

  When normal overlay printing is performed ([Print the overlay with simple setting] check box is not checked), neither the form file nor document is printed in the portions where they overlap. Accordingly, the document is printed just like the original image.

4 Print.

Click [Print] in the [Print] dialog box.
The document is printed over the form data.

IMPORTANT

- When carrying out overlay printing, the print settings made for the form file must be completely the same as those made for the document. If any setting is different between them, overlay printing cannot be performed.
  Print settings: Paper form, paper size (length, width, margins), and print quality
- If the version of the printer driver used to create the form file is different from the version of the printer driver used for printing, you may not be able to carry out overlay printing. In such a case, create the form file using the printer driver used for printing.

Setting Paper Feed Speed

The procedure for setting the paper feed speed of the printer is described below

Accelerating Printing on the 1st Sheet of Paper

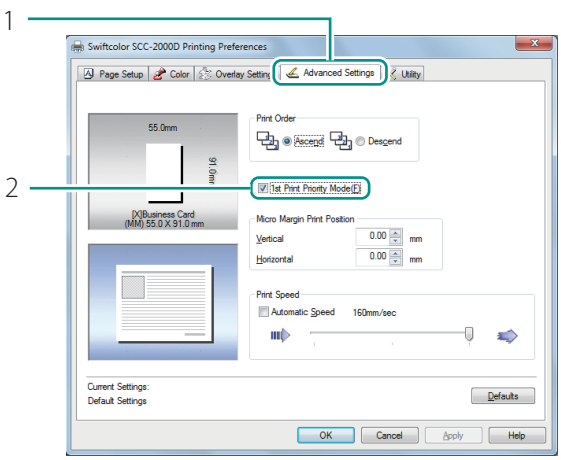
Selecting the 1st Print Priority mode accelerates printing on the first sheet of paper.

IMPORTANT

- In the server/client environment, the [1st Print Priority Mode] check box is not effective.
- When you select [1st Print Priority Mode], depending on the operating environment or the type of print data, the printing may take longer than usual ([1st Print Priority Mode] not checked) or a blank sheet may be ejected.
- When the [Enable advanced printing features] check box is not checked on the [Advanced] sheet displayed on the printer properties window, the effect of checking the [1st Print Priority Mode] check box is reduced.

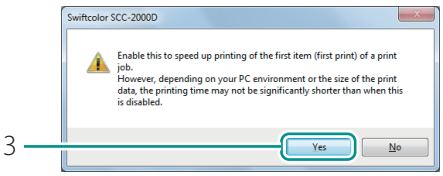
1 Open the printer driver setup window. (P.31)

2 Select the 1st Print Priority mode.



1. Click the [Advanced Settings] tab.
2. Check the [1st Print Priority Mode] check box.

- A confirmation message appears.



3. Click [Yes].

3 Complete the setting procedure.

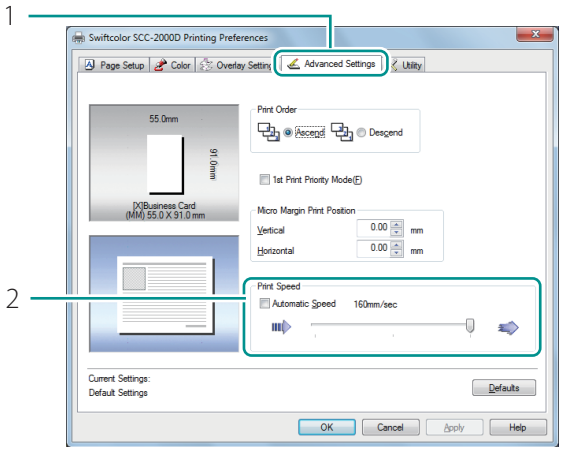
Click [OK] in the printer driver setup window.

Adjusting the Paper Feed Speed

AFollow the procedure below to adjust the paper feed speed according to the type of print data, such as when sheets would be stained due to the next sheet being ejected before the printed surface of the current sheet dries completely.

1 Open the printer driver setup window. (P.31)

2 Adjust the paper feed speed.



1. Click the [Advanced Settings] tab.

2. Adjust the print speed.

- Adjust the print speed by moving the slide bar.
- If the [Automatic Speed] check box is checked, uncheck it.
  The slide bar becomes effective.

3 Complete the setting procedure.

Click [OK] in the printer driver setup window.

NOTE

- When the [Automatic Speed] check box is checked, the printing speed automatically changes to an appropriate one according to the print data transmission status.
  (The printing speed automatically changes to 160 mm/sec, 120 mm/sec, or 80 mm/sec.)
- The printing speed at each transport speed is as follows:

Transport speed	160mm/sec	120mm/sec	80mm/sec
Printing speed	Business Card: 50 sheet/min	Business Card: 37 sheet/min	Business Card: 25 sheet/min

Registering Print Settings You Use Frequently

It is possible to register the frequently used print settings in [Favorites]. Selecting a registered favorite from the [Favorites List] allows you to make prints with the same print settings as usual.

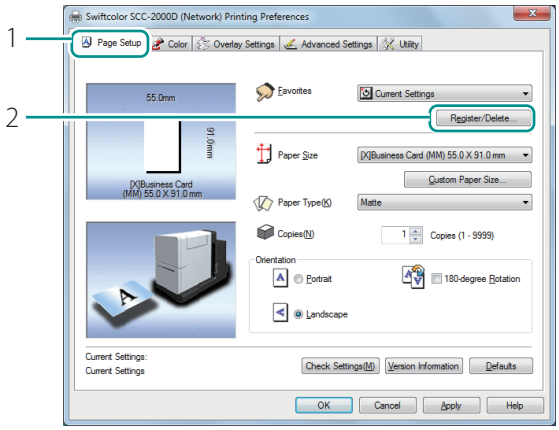
IMPORTANT

- Up to ten print settings can be registered in [Favorites].
- When the [Settings] screen of the printer driver was displayed from the application software, it is not possible to register or delete settings in/from [Favorites]. To do so, display the [Settings] screen of the printer driver from the [Devices and Printers] folder of Windows.

1 Open the printer driver setup window from the [Devices and Printers] folder. (P.32)

2 On the [Page Setup] sheet, [Color] sheet, [Overlay Settings] sheet, and [Advanced Settings], configure the settings you want to register.

3 Register the settings.

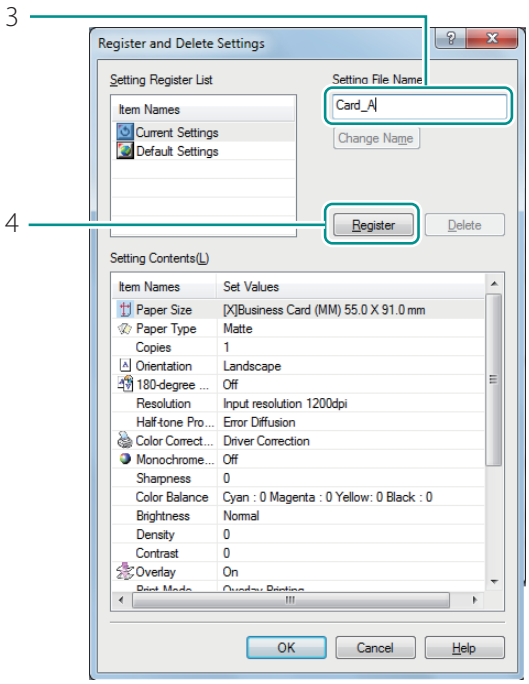


1. Click the [Page Setup] tab.

- Make sure [Current Settings] is selected from the [Favorites].

2. Click [Register/Delete...].

- The [Register/Delete Favorites] dialog box appears.

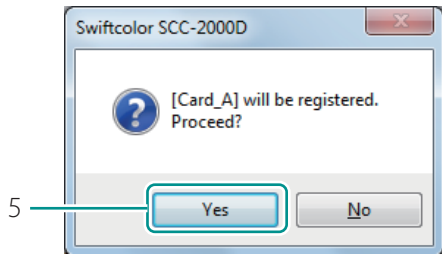


3. Enter a desired name in the [Setting File Name] entry box and then confirm the [Setting Contents].

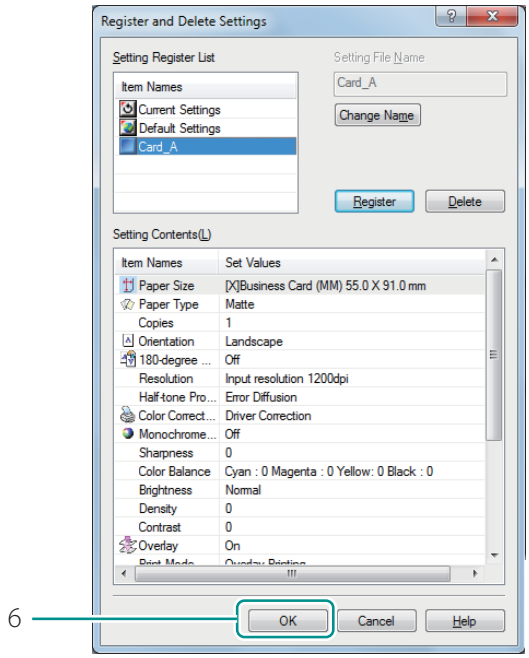
- Can be entered up to 16 characters.
  Can not be used spaces and tabs.
- Entry in the [Setting File Name] entry box is mandatory.

4. Click [Register].

- A confirmation message appears.



5. Click [Yes].



6. Click [OK].

- The print settings are registered in [Favorites].

NOTE

- **Changing the Name of a Favorite**

  To change the name of a registered favorite, select it from the [Registered Settings List] and then click [Change Name]. After changing the name, click [Register].

- **Deleting a Favorite**

  To delete a registered favorite, select if from the [Registered Settings List], and then click [Delete].

- **Confirming a Registered Favorite (Settings)**

  Clicking [Check Settings] on the [Page Setup] sheet allows you to confirm the print settings registered in [Favorites].

  Clicking [Copy] in the dialog box allows you to copy the print settings to the clipboard of the OS. To read the copied print settings, paste them to the page of application software such as Notepad.

- **Default Settings**

  Default settings are as follows:

Sheet Name	Item Name	Setting
Page Setup	Paper Size	[X]Business Card(MM) 55.0 X 91.0mm
	Paper Type	Matte
	Copies	1
	Orientation	Landscape
	180-degree Rotation	Off
Color	Resolution	Input resolution 1200dpi
	Half-tone	Error Diffusion
	Color Correction	Driver Correction
	Monochrome Print	Off
	Sharpness*	0 (Off)
	Color Balance*	0 for all of Bk/C/M/Y
	Brightness*	Normal
	Density*	0
	Contrast*	0
Overlay Settings	Overlay	Off
Advanced Settings	Print Order	Ascend
	1st Print Priority Mode	Off
	Micro Margin Print Position Adjustment (Vertical)	0.00
	Micro Margin Print Position Adjustment (Horizontal)	0.00
	Print Speed	160 mm/sec

*:Items in [Detailed Settings] dialog box

Changing Special Settings of Printer

The function of [Special Settings] on the [Utility] sheet is described below.
Use [Special Settings] to change the special settings of the printer as required. Normally, it is not necessary to change the settings.

There are three special settings.

[Ink Pre-fire On The Paper]

A very small quantity of ink is constantly discharged onto paper at regular intervals in order to maintain the print head performance.
By default, the [Ink Pre-fire On The Paper] check box is not checked (Off). If this check box is unchecked, the printing time increases due to an extra process for print head cleaning.

[Print&Hold Mode]

Check the [Print & Hold Mode] check box when you want to stop printing at the ejection slot one sheet at a time.
By default, this check box is not checked (Off).

[Reduce smudge on media edge]

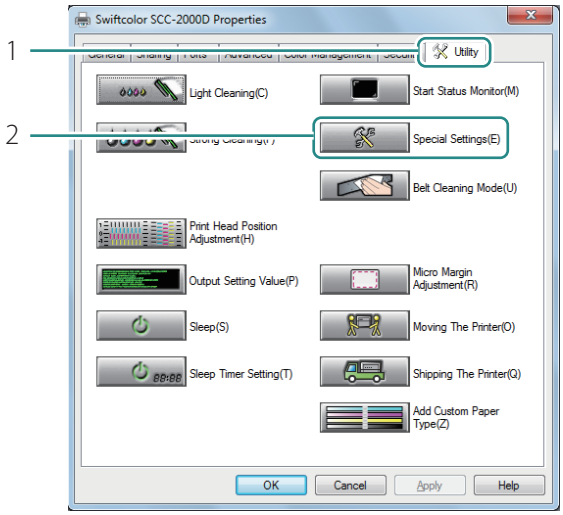
Look at the printed result, and check the [Reduce smudge on label edge] check box to reduce stains at the paper edges if necessary.
By default, this check box is not checked (Off).
When this mode was set, the printing speed is slow.

IMPORTANT

- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".
- When printing is in progress or an error has occurred, you cannot change any special setting.

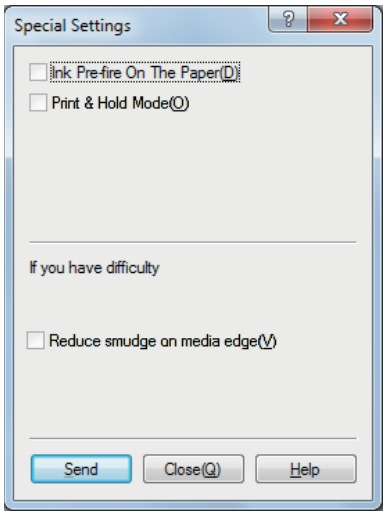
1 Open the properties window of the printer. (P.32)

2 Display the [Special Settings] dialog box.



1. Click the [Utility] tab.
2. Click [Special Settings].

3 Change settings as needed.



- The special settings of the connected printer (online status) are displayed.

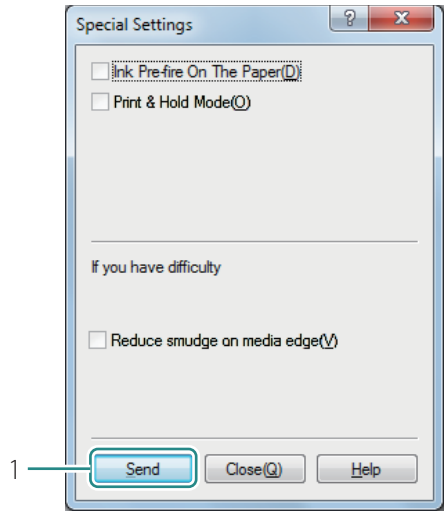
IMPORTANT

- Ink pre-fire on the paper is not performed during micro margin printing, regardless of the Ink Pre-fire On The Paper setting.

NOTE

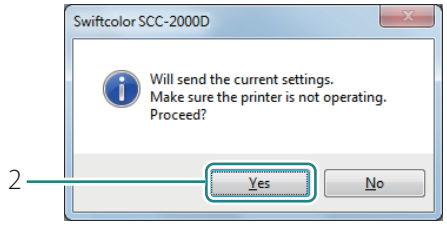
- When the computer cannot communicate with the printer (offline status), the special settings that the computer received in the last communication (when the printer was in the online status) are displayed.

4 Send the changed special settings.



1. Click [Send].

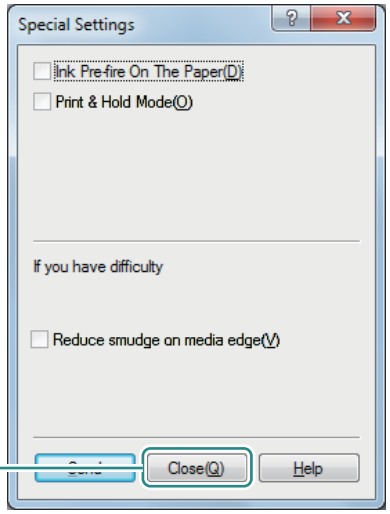
- A conformation message appears.



2. Click [Yes].

- The changed special settings are sent to the printer.

5 Finish the special setting change procedure.



1. Click [Close].

Registering Paper Type

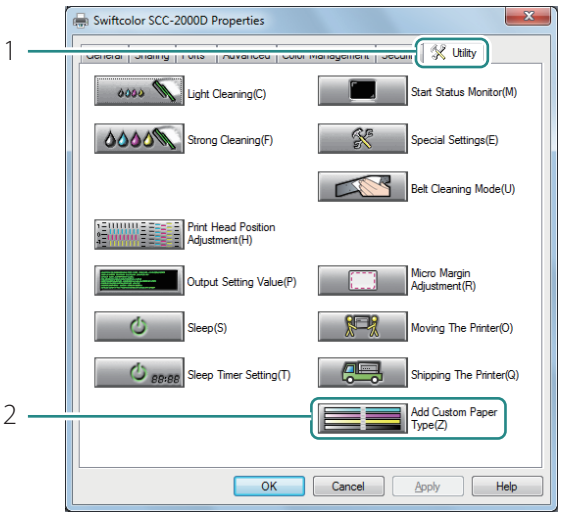
Allows the user to adjust ink jetting amounts and register them along with the paper type of new paper.

IMPORTANT

- Up to ten custom paper types can be registered.
- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".

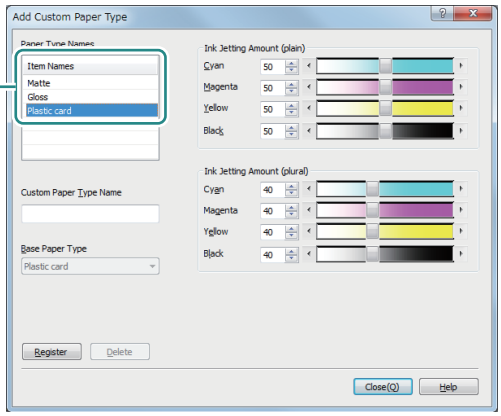
1 Display the properties window of the printer. (P.32)

2 Display the [Add Custom Paper Type] dialog box.



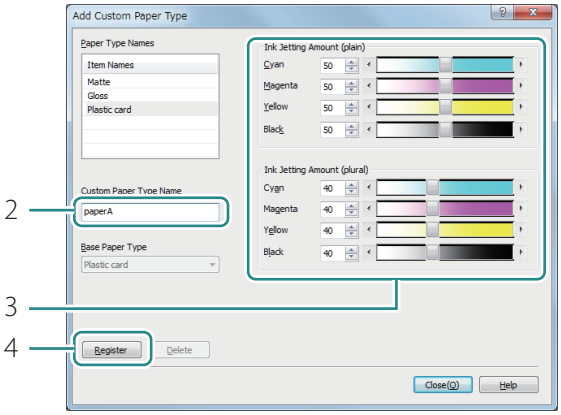
1. Click the [Utility] tab.
2. Click [Add Custom Paper Type].

3 Registering the new paper type.



1. Select a paper type from [Paper Type Names].

- Select from [Matte], [Gloss], and [plastic card].



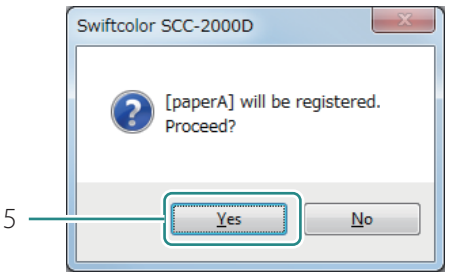
2. Type a desired name in the [Custom Paper Type Name].

3. Set ink jetting amounts for respective colors.

- Moving the slider to the left decreases the ink jetting amount, and moving the slider to the right increases the ink jetting amount.
- Determine the ink jetting amounts optimum for the selected type of paper after conducting the print test several times.

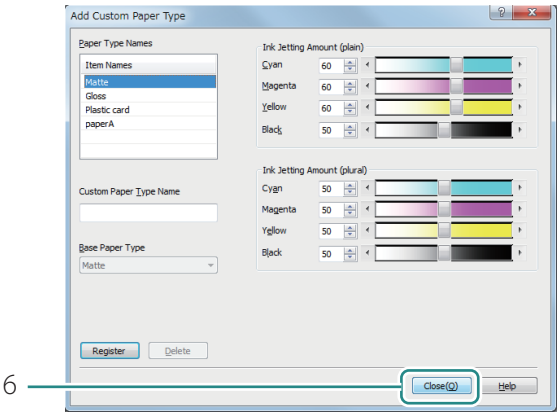
4. Click [Register].

- A confirmation message appears.



5. Click [Yes].

- The paper types are registered in [Item Names].



6. Click [Close].

4 Check the print result by the test print.

NOTE

- **Deleting a paper type**

  To delete a registered paper type, select if from the [Paper Type Names], and then click [Delete].

Chapter 3

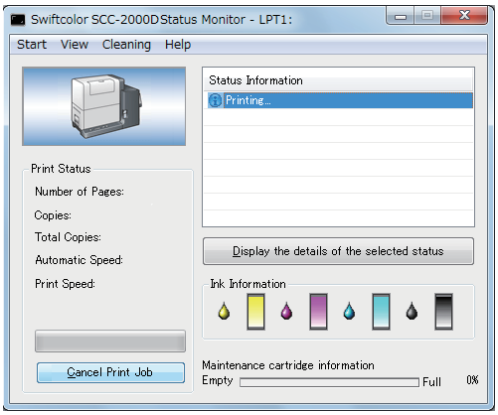
Maintenance

This chapter describes maintenance required to use the printer in good condition.

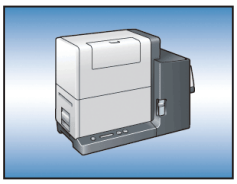
Checking Printer Status 88
Replacing Ink Tank 91
Replacing Maintenance Cartridge 98
Cleaning Print Head 105
Adjusting Print Head Position 109
Checking Setting Values 122
Cleaning Printer 124

Checking Printer Status

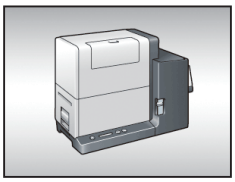
The status monitor allows you to check the current status of the printer,



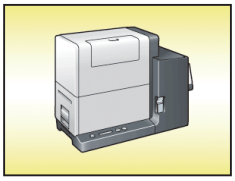
There are four types of images to inform the status of the printer.



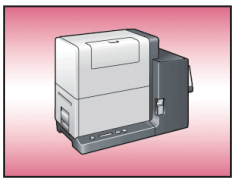
Displayed when the printer is in normal status.
The printer is online and ready to print.



Displayed when the printer is offline.



Displayed when a warning has been issued.
A warning message is displayed for the Status Information but printing can continue.
Troubleshoot the problem as required.



Displayed when a error has been issued. An error message is displayed for the Status Information, and printing cannot be done in this status. Troubleshoot the problem as required.

NOTE

- The status monitor allows you to check the current status of the printer, print status, ink information, and maintenance cartridge information.
- **Cancelling Printing**

  To cancel printing, click [Cancel Print Job] on the status monitor.
  Printing is canceled, and the currently printing job and the jobs that are under processing or receiving in the printer are also abandoned, along with all print data in process in the computer.
- **Viewing the Status Information**

  The Status Information indicates the status of the printer by displaying the following four icons and messages.

  Information

  Warning message (P.164)

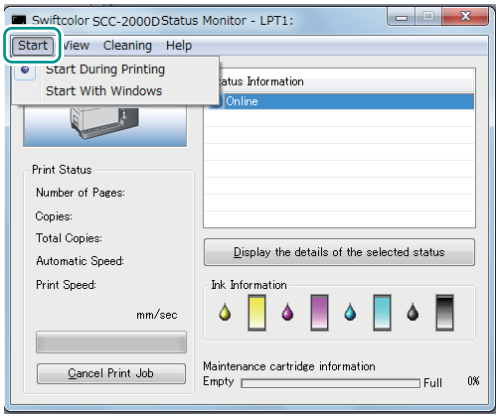
  Operator Call Error message (P.159)

  Service Call Error message (P.163)

How to Start and Display the Status Monitor

This section describes how to start and display the Status Monitor.

1 Open the Start menu and select the desired start option.



1. Select one of the followings.

   [Start During Printing]

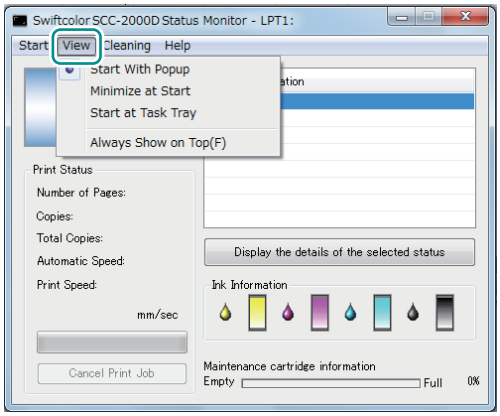
   The Status Monitor automatically starts when a print job starts. (This is the default setting.)

   [Start With Windows]

   The Status Monitor starts when Windows starts.

   A dot symbol (●) marks the currently selected item.

2 Open the View menu and select the desired option.



1. Select one of the followings.

   [Start With Popup]

   Open and display the Status Monitor window. (This is the default setting.)

   [Minimize at Start]

   Minimize and store the open Status Monitor window on the taskbar.

   [Start at Task Tray]

   Create an icon for the open Status Monitor window and stores the icon in the task tray.

   A dot symbol (●) marks the currently selected item.

NOTE

- To start the status monitor, click [Start Status Monitor] on the [Utility] sheet.
- When an error occurs, the status monitor pops up automatically.
- To display the window always on the top, click [Always Show On Top] to attach the checkmark at the beginning of the name of this selection. The Status Monitor will appear semi-transparent on the screen.

Replacing Ink Tank

If an ink tank of a certain color is out of ink, the corresponding Ink lamp lights up and an error message "xxxx ink empty" appears on the status monitor.
The procedures for replacing the ink tank and checking the ink condition are described below.

Replacing the Ink Tank

When an ink tank is out of ink, replace it following the procedure described below.

CAUTION

- For safety, keep ink tanks out of the reach of children.
- If a child licks or swallows ink by mistake, consult a physician immediately.

IMPORTANT

- Use of ink which is not genuine could result in a reduction in print quality or a printer failure.
- Fixing a printer failure resulting from use of an ink tank which is not genuine should be paid for even within the maintenance contract period or warranty period.
- Replace each ink tank as quickly as possible. Do not leave the printer for a long period with any ink tank removed.
- Do not leave ink tanks in a place subjected to high temperatures for a long period. They could deform.
- Store ink tanks in a place not subjected to direct sunlight.
- In order to keep high quality, install each ink tank in the printer before expiration of the "installation deadline" indicated on the shipping box. In addition, it is recommended that the ink tank be used up within six months once it is unpacked.

NOTE

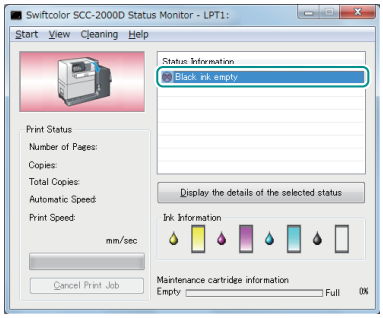
- Inks other than black ink may be used when characters represented only in black are printed or black-and-white prints are made. Also, cleaning performed to maintain the performance of this printer and strong cleaning consumes all color inks. When a tank is out of ink, replace it with a new one as soon as possible.

1 Confirm the ink tank which is out of ink.

(Indication by Ink lamp)

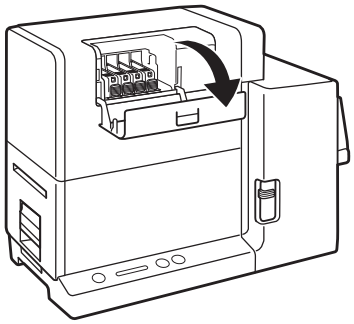
- The Ink lamp lights up when the corresponding ink tank is out of ink.

(Indication on the status monitor)

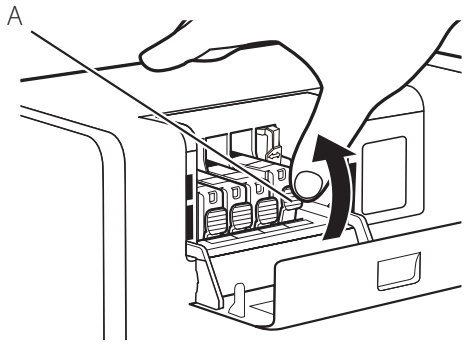


- An error message "XXXX ink empty" appears on the status monitor.
- (XXXX: Black, Cyan, Magenta, or Yellow)

2 Open the ink tank cover.



3 Remove the empty ink tank.

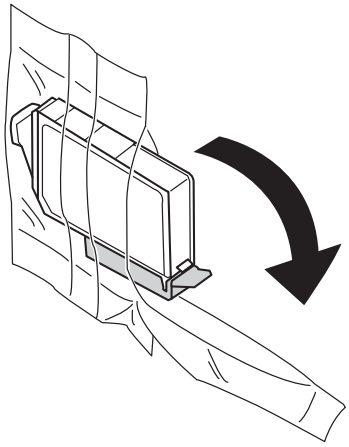


- Push the ink tank lock knob (A) and raise the ink tank to remove it.

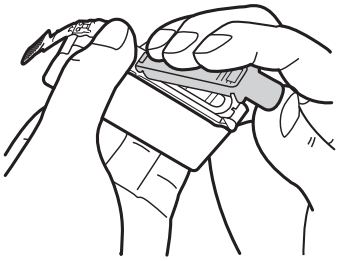
IMPORTANT

- Handle the ink tank carefully so that your clothes and the area around the printer are not stained with ink.
- Dispose the used ink tank according to the local regulations.

4 Have the ink tank ready.



1. Take out a new ink tank from the plastic bag.

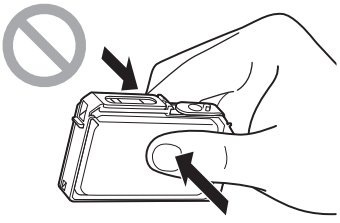


2. Remove the orange protective cap as shown in the figure.

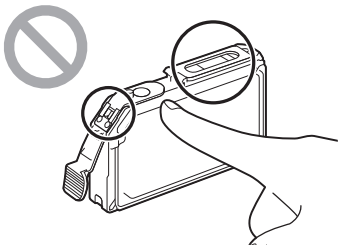
- Remove the protective cap while holding it as shown so that your fingers are not stained with ink.
- Dispose the removed protective cap according to the local regulations.

IMPORTANT

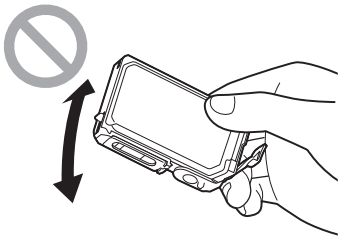
- Do not press on the sides of the ink tank. Ink could leak.



- Do not touch the ink tank contacts. The printer could fail in operation/ printing.
- Do not touch the ink supply opening. Ink could not be supplied properly.

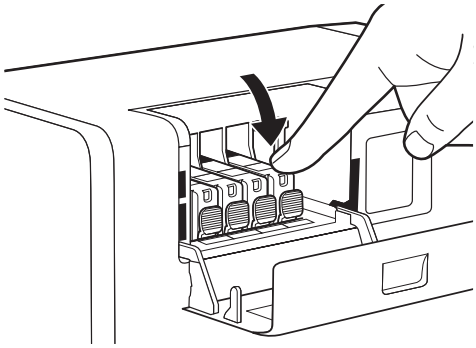


- Do not shake the ink tank with the ink supply opening down. Ink leaking from the ink supply opening could stain your clothes or the area around the printer.



- Be careful not to stain your clothes or the area around the printer with the ink remaining on the removed protective cap.

5 Install the ink tank in the printer.



1. Insert the ink tank in the slot in the printer with the ink supply opening down.

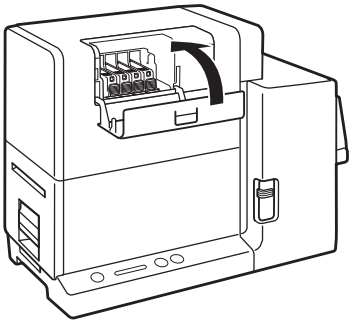
- Before installing each ink tank, confirm the ink color according to the label.

2. Press on the top of the ink tank until the ink tank clicks.

IMPORTANT

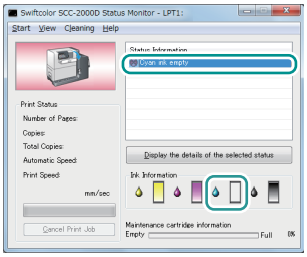
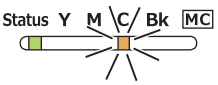
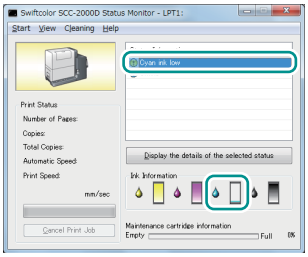
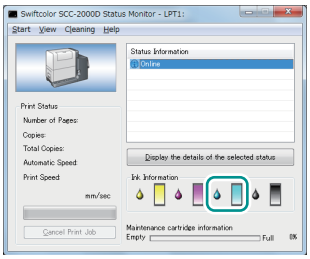
- Install the ink tank at correct position according to the label.
  If any ink tank is installed at a wrong position, the printer cannot print. In addition, ink colors could be mixed, resulting in a printing failure.
- If any one of the ink tanks is not installed, the printer cannot print. Be sure to install all ink tanks.

6 Close the ink tank cover.



Checking the Ink Condition

The ink condition can be checked by the Ink Lamps and the ink information displayed on the status monitor.

Indication by Ink lamp	Indication on status monitor	Status
Lit 		• The ink tank must be replaced (empty). • The ink tank is faulty.
Blinking 		• The ink tank is short of ink. Remaining ink level: About 10% (It is recommended to have a new ink tank ready.)
Off 		• The ink tank is sufficient of ink.

The pictures of ink tanks shown on the status monitor stand for yellow (Y), magenta (M), cyan (C), and black (Bk) ink tanks from left.

IMPORTANT

- For how to get a new ink tank, contact the dealer.
- After a warning message "XXXX ink low" ("XXXX": Black, Cyan, Magenta, or Yellow) is displayed, the number of print head cleaning increases and therefore the printing time also increases.
  To prioritize printing time, replace an ink tank with less remaining ink with new one.

Replacing Maintenance Cartridge

When the maintenance cartridge becomes full of collected ink, the Maintenance Cartridge lamp lights up and a message "Maintenance cartridge full" appears on the status monitor.
The procedures for replacing the maintenance cartridge and checking the status of the maintenance cartridge are described below.

Replacing the Maintenance Cartridge

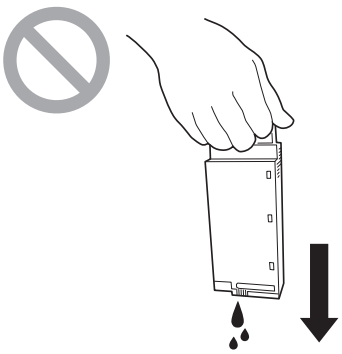
When the maintenance cartridge becomes full, replace it with a new one following the procedure described below.

CAUTION

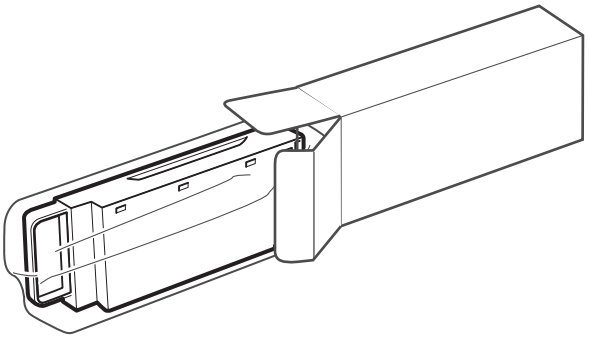
- For safety, keep the used maintenance cartridge out of the reach of children.
- If a child licks or swallows ink, consult a physician immediately.

IMPORTANT

- Do not leave the printer for a long time with the maintenance cartridge removed.
- Do not insert or remove the maintenance cartridge except when replacing it.
- Put the used maintenance cartridge in the attached plastic bag, zip the plastic bag closed completely, and then dispose it.
- Do not shake or strongly press on the maintenance cartridge or hold it with the ink inlet down. Ink leaking from the ink inlet could stain your clothes or the area around you.

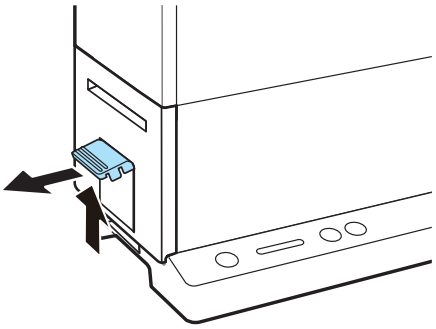


1 Unbox the new maintenance cartridge.



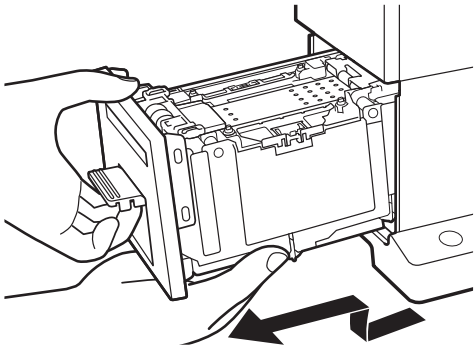
1. Open the shipping box.
2. Take the maintenance cartridge out of the shipping box.

2 Pull out the transport unit from the printer.



1. Raise the transport unit lever, and pull the transport unit out.

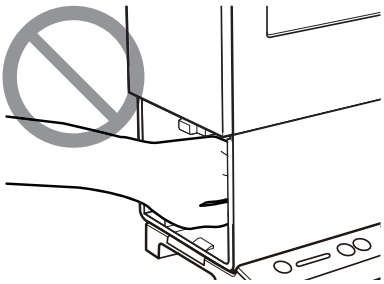
- If you are using the delivery tray (option), remove it.



2. Pull out the transport unit with both hands as shown in the figure.

CAUTION

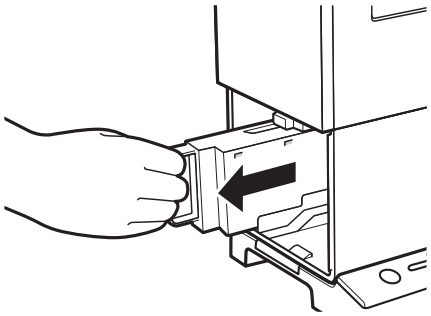
- When pulling the transport unit out of the printer, hold it firmly with both hands so that it does not fall.
- Do not put your hands into inside of the printer. Failures or physical injury could result. Further, your hands or clothing may get dirty with ink adhered inside of the printer.



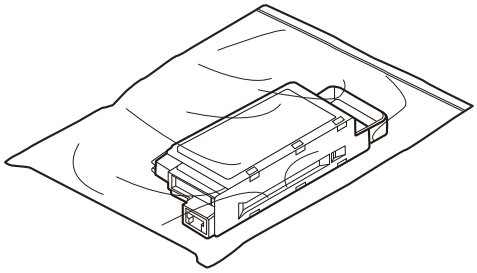
IMPORTANT

- When pulling the transport unit out of the printer or inserting it in the printer, be careful not to hit it strongly against the table or shelf. The surface of the table or shelf could be damaged.

3 Pull out the maintenance cartridge filled with ink.



1. Slowly pull out the maintenance cartridge.



2. Put the removed maintenance cartridge in the plastic bag.

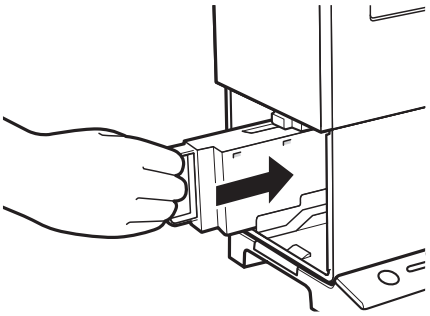
- A new maintenance cartridge comes with a plastic bag for putting a used maintenance cartridge in it.

3. Zip the plastic bag closed completely.

IMPORTANT

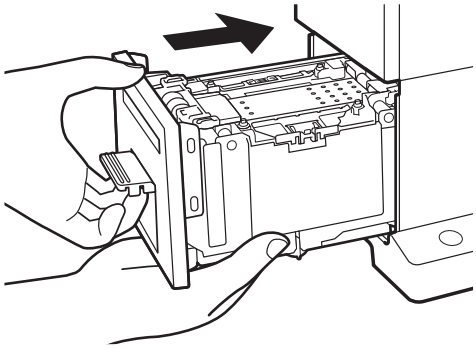
- Do not shake or strongly press on the maintenance cartridge or hold it with the ink inlet down. Ink leaking from the ink inlet could stain your clothes or the area around you.

4 Install the new maintenance cartridge.



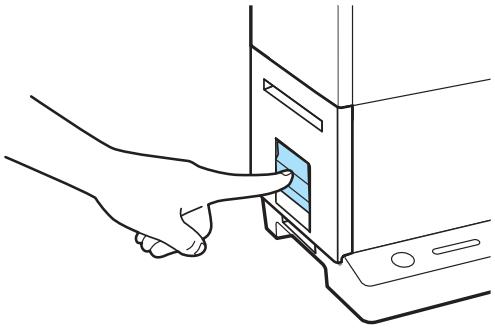
- Insert the maintenance cartridge as far as it will go.

5 Set the transport unit in the printer.



1. Slowly insert the transport unit as far as it will go.

- As you do this, be careful not to touch the paper guides causing their positions to be changed.



2. Push the transport unit lever until it clicks.

CAUTION

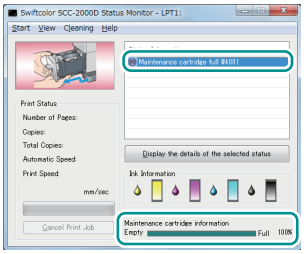
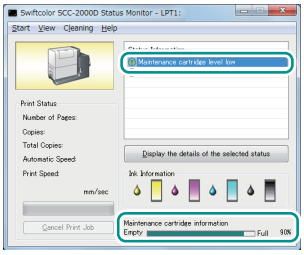
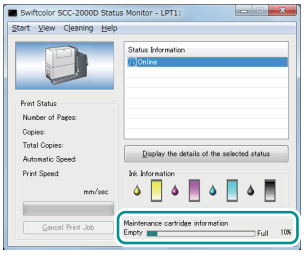
- When inserting the transport unit, be careful not to get your fingers caught between the transport unit and the main body of the printer.

IMPORTANT

- Do not store the used maintenance cartridge with the ink inlet down. Ink leaking from the ink inlet could stain your closes or the area around you.
- Dispose the used maintenance cartridge according to the local regulations.

Checking the Status of the Maintenance Cartridge

The status of the maintenance cartridge can be checked by the Maintenance Cartridge Lamp and the maintenance cartridge information displayed on the status monitor.

Indication by Maintenance Cartridge lamp	Display on status monitor	Status
Lit 		• The maintenance cartridge must be replaced (it is full). • The maintenance cartridge is faulty.
Blink 		• The maintenance cartridge has a small free space. Free space: About 10% (It is recommended to have a new maintenance cartridge ready.)
Off 		• The maintenance cartridge has a sufficient free space.

IMPORTANT

- For how to get a new maintenance cartridge, contact the dealer.

Cleaning Print Head

If the printed result is faint, print head nozzles may be clogged with paper dust, etc. When nozzles are clogged, carry out cleaning.

IMPORTANT

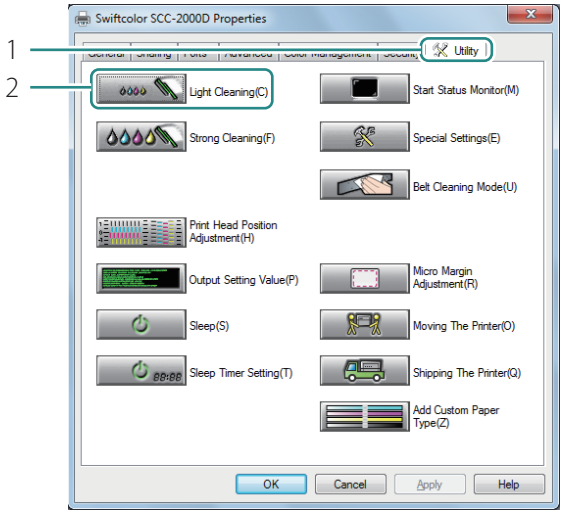
- When printing is in progress or an error has occurred, cleaning can not be carried out .
- When cleaning is in progress, do not carry out any other operation.
- Since cleaning consumes inks, carry it out only when necessary. Note that strong cleaning consumes more ink than normal cleaning (light cleaning).

Carrying out Normal Cleaning (Light Cleaning)

The procedure for carrying out normal cleaning (light cleaning) is described below.

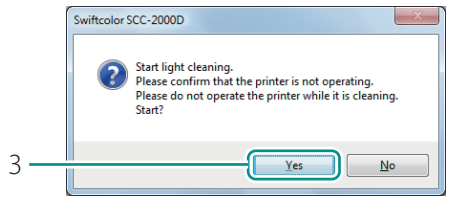
1 Open the printer driver setup window. (P.31)

2 Carry out light cleaning.



1. Click the [Utility] tab.
2. Click [Light Cleaning].

- A confirmation message appears.

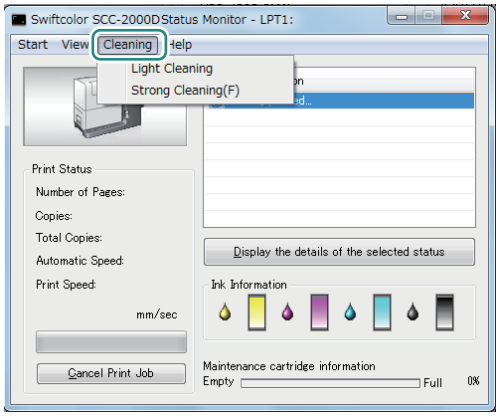


3. Confirm the displayed message and then click [Yes].

- Light cleaning starts.

NOTE

- If the symptom persists even after completion of light cleaning, carry out strong cleaning (P.107)
- **Carrying out Cleaning during Printing**
  You can stop printing temporarily to carry out cleaning.
  1. Press the Pause key.
  2. Select [Light Cleaning] or [Strong Cleaning] from the [Cleaning] menu on the status monitor.



Carrying out Strong Cleaning

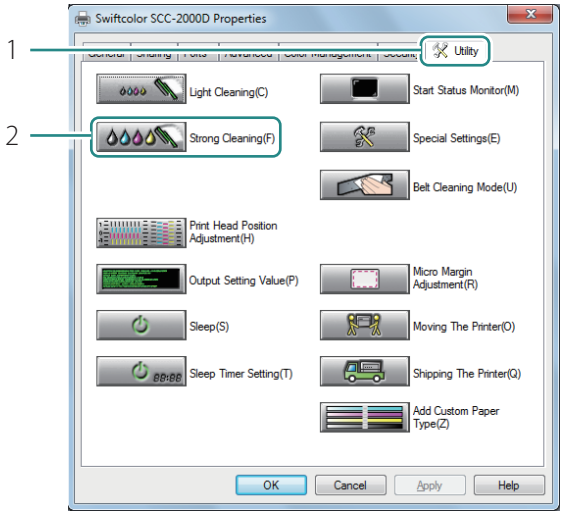
If the symptom persists even after completion of normal cleaning (light cleaning), carry out strong cleaning.

IMPORTANT

- Since strong cleaning consumes more ink than normal cleaning (light cleaning), carry it out only when necessary.

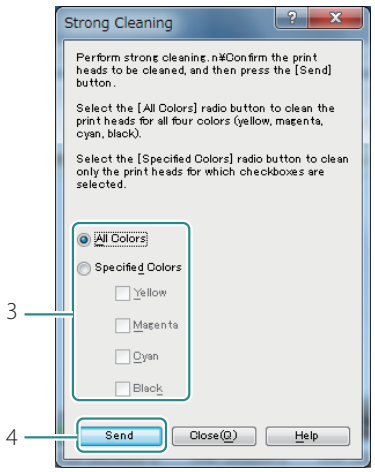
1 Open the printer driver setup window. (P.31)

2 Carry out strong cleaning.



1. Click the [Utility] tab.
2. Click [Strong Cleaning].

- A confirmation message appears.

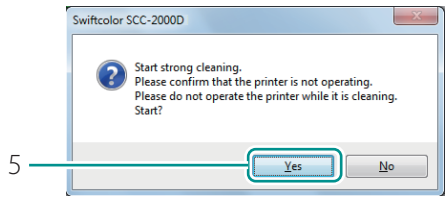


3. Select ink colors corresponding to the nozzles you want to clean.

   [All Colors]
   Select this radio button to clean nozzles for all colors together.

   [Specified Colors]
   The nozzles corresponding to the check boxes which are checked will be cleaned.

4. Click [Send].



5. Confirm the displayed message and then click [Yes].

- Strong cleaning starts.

NOTE

- If carrying out strong cleaning three times fails to solve the problem, there could be some other problems. Contact the dealer.

Adjusting Print Head Position

If a color shift is found in the printed result, adjust the print head position.
To adjust the print head position, print adjustment patterns and enter adjustment values while looking at the printed adjustment patterns.

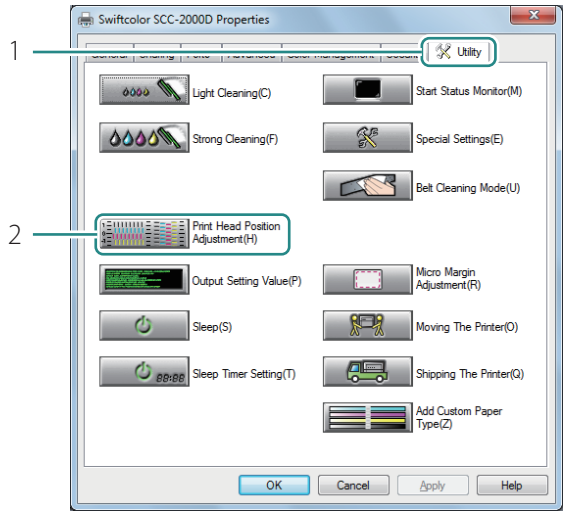
IMPORTANT

- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".
- When printing is in progress or an error has occurred, cannot be adjusted the print head position.

1 Check that paper is set in the printer.

2 Open the properties window of the printer. (P.32)

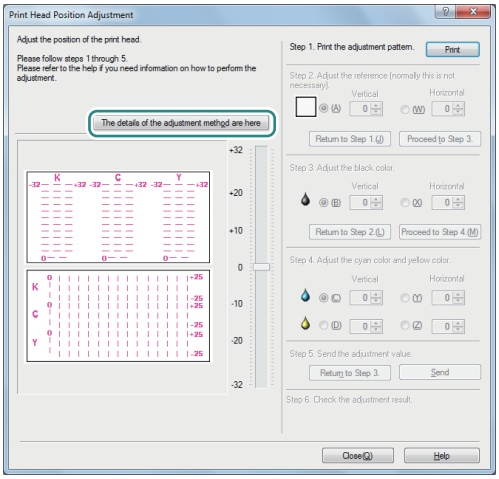
3 Display the [Print Head Position Adjustment] dialog box.



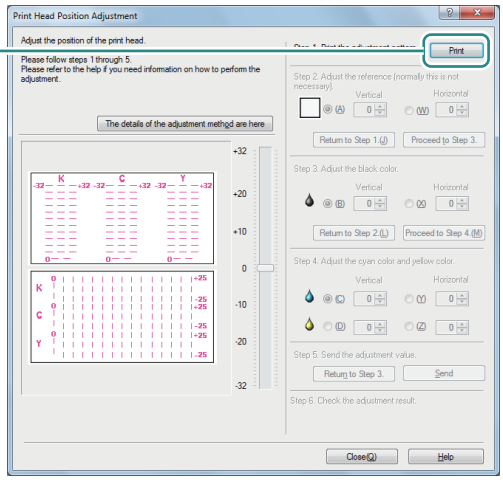
1. Click the [Utility] tab.
2. Click [Print Head Position Adjustment].

NOTE

- Clicking [The details of the adjustment method are here] in the [Print Head Position Adjustment] dialog box will display the help screen showing the print head adjustment method.

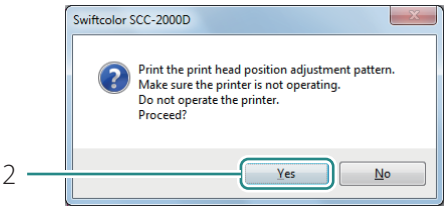


4 [Step 1] Print adjustment patterns.



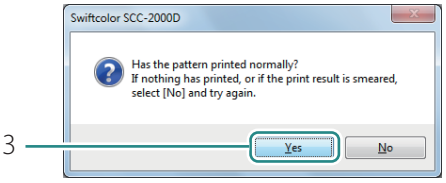
1. Make sure the printer is not operating and then click [Print].

- A confirmation message appears.



2. Confirm the displayed message, and then click [Yes].

- Printing of adjustment patterns starts.



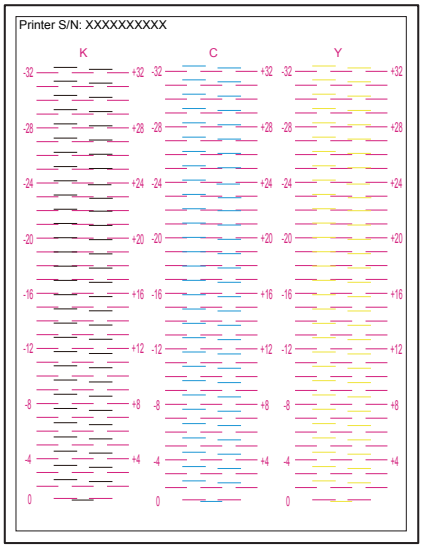
3. If adjustment patterns have been printed normally, click [Yes].

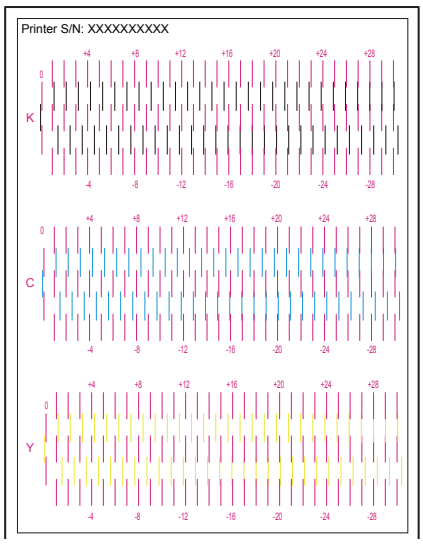
- If you select [No], adjustment patterns will be printed again.

5 Check the print head adjustment patterns.

Check whether inks are injected from the print head normally, and the print head position is not deviated. The print head adjustment patterns include a "print head position adjustment pattern (portrait)" for measuring the print head deviation in the transport direction, a "print head position adjustment pattern (landscape)" for measuring the print head deviation in the direction perpendicular to the transport direction, and a black frame for checking the reference position of each ink.

Transport direction

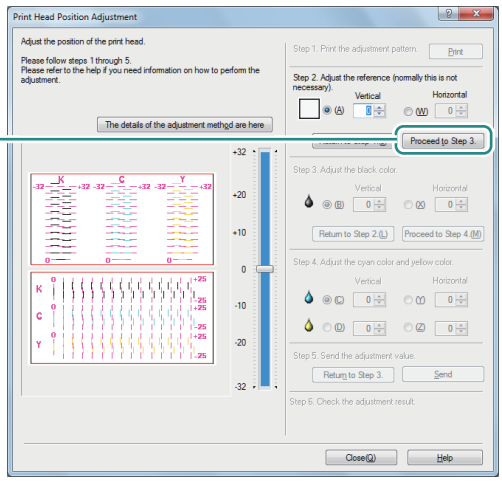




6 [Step 2] Check the reference position.

Check whether the black frame is centered on the paper.
If the black frame is not centered, adjust the reference position. (Normally, it is not necessary to adjust the reference position.)

2



1. Check whether the black frame is centered on the paper.

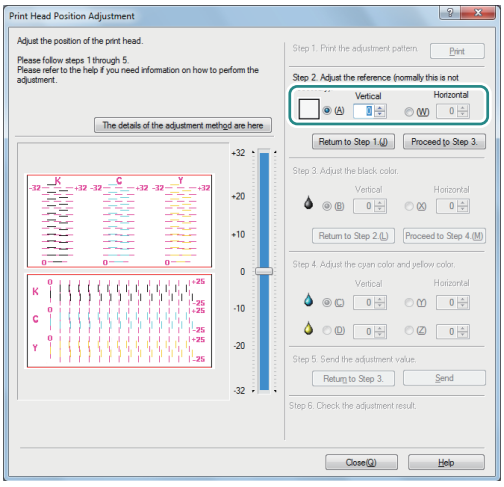
- The top line of the black frame must be located 1.5 mm below the upper edge of the paper, and the left line of the black frame must be located 2.0 mm away from the left edge of the paper. If the black frame is deviated significantly, adjust the reference position (P.113)

2. Click [Proceed to Step 3].

NOTE

- **Adjusting the Reference Position**

  When the reference position is correct, the top line of the black frame is located 1.5 mm below the upper edge of the paper and the left line of the black frame is located 2.0 mm away from the left edge of the paper. Adjust the reference position only when it is deviated significantly.

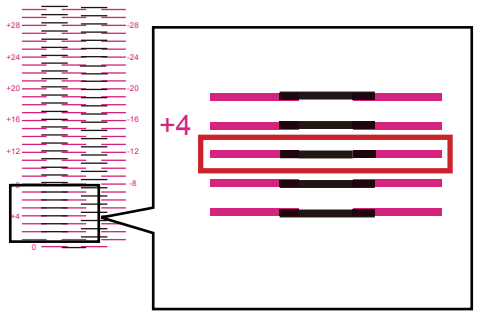


- Vertical adjustment:
  If the black frame is shifted upward, specify a negative (-) value. If the black frame is shifted downward, specify a positive (+) value.
  Click the radio button (A) and then specify the adjustment value.
- Horizontal adjustment:
  If the black frame is shifted leftward, specify a positive (+) value. If the black frame is shifted rightward, specify a negative (-) value.
  Click the radio button (W) and then specify the adjustment value.

- To specify the adjustment value, move the slider or enter a value directly in the entry box (spinner) interlocked with the slider.
- Changing the value by 1 will move the black frame 0.0212 mm upward/downward/leftward/rightward.
- The vertical adjustment range is from -32 to +32, and the horizontal adjustment range is from -25 to +25. However, the adjustment range may be limited depending on the current setting. Specify the adjustment value between ▲ and ▼ shown on the slider scale.
- To retry from [Step 1] (printing of adjustment patterns), click [Return to Step 1].

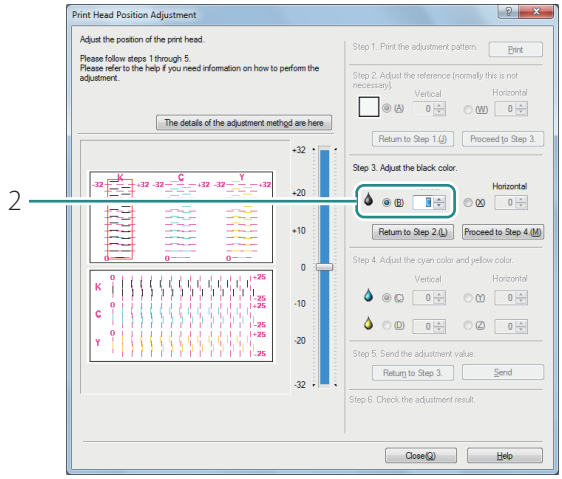
7 [Step 3] Adjust the print head position for black.

Adjust the print head position for black while looking at the adjustment pattern [K].

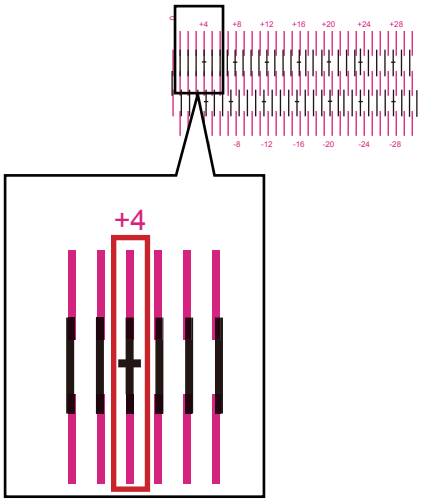


1. Read the vertical adjustment value in the adjustment pattern [K].

● The adjustment value is found on the left of the magenta and black lines which appear to be connected most smoothly (without steps).
For example, in the pattern shown on the left, the adjustment value is +3.

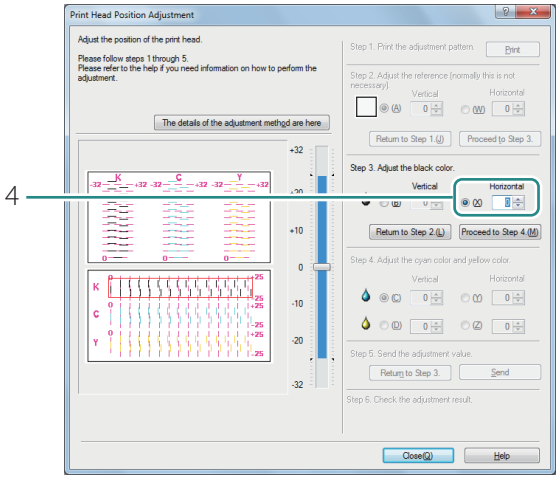


2. Click the radio button (B) and then specify the vertical adjustment value.

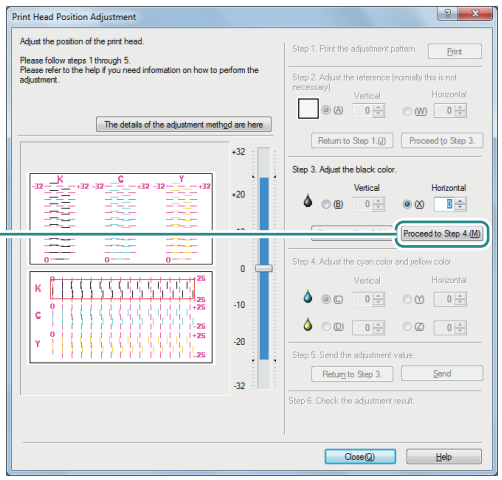


3. Read the horizontal adjustment value in the adjustment pattern [K].

- The adjustment value is found at the top of the magenta and black lines which appear to be connected most smoothly (without steps). For example, in the pattern shown on the left, the adjustment value is +4.



4. Click the radio button (X) and then specify the vertical adjustment value.



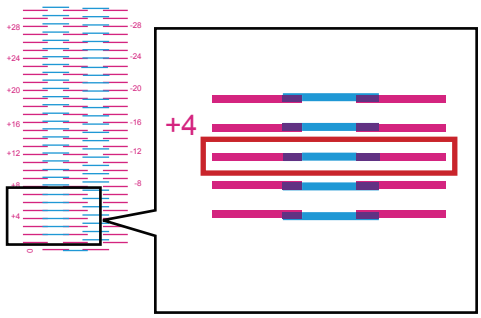
5. Click [Proceed to Step 4].

NOTE

- To specify the adjustment value, move the slider or enter a value directly in the entry box (spinner) interlocked with the slidebar.
- The vertical adjustment range is from -32 to +32, and the horizontal adjustment range is from -25 to +25. However, the adjustment range may be limited depending on the current setting. Specify the adjustment value between ▲ and ▼ shown on the slider scale.
- To retry from [Step 2] (adjustment of the reference position), click [Return to Step 2].

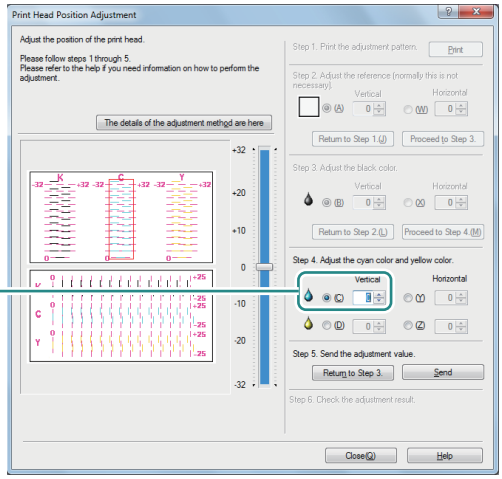
8 [Step 4] Adjust the print head position for cyan and yellow.

Adjust the print head position for cyan while looking at the adjustment pattern [C], and adjust the print head position for yellow while looking at the adjustment pattern [Y].

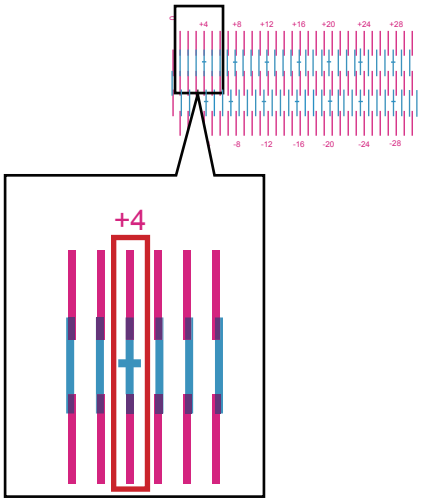


1. Adjust the print head position for cyan. Read the vertical adjustment value on the adjustment pattern [C].

- The adjustment value is found on the left of the magenta and cyan lines which appear to be connected most smoothly (without steps). For example, in the pattern shown on the left, the adjustment value is +3.

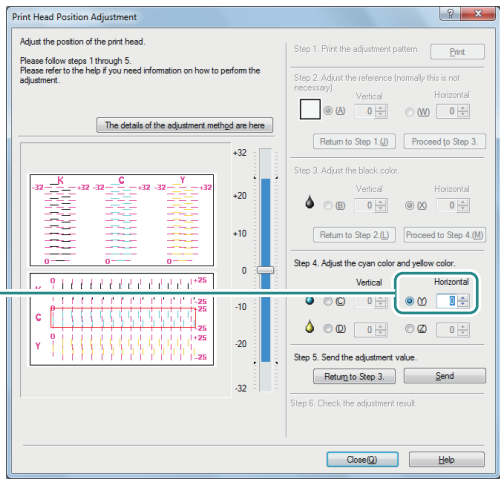


2. Click the radio button (C) and then specify the vertical adjustment value.

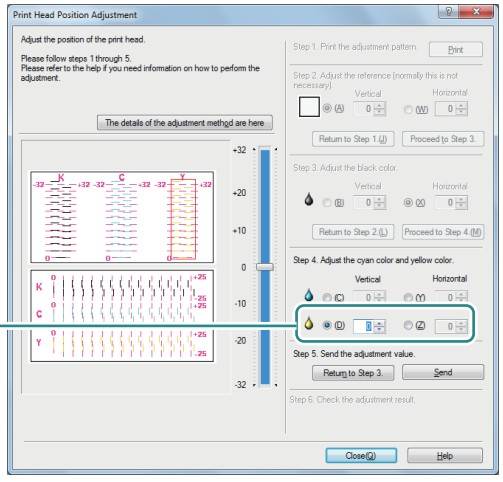


3. Read the horizontal adjustment value on the adjustment pattern [C].

- The adjustment value is found at the top of the magenta and cyan lines which appear to be connected most smoothly (without steps). For example, in the pattern shown on the left, the adjustment value is +4.



4. Click the radio button (Y) and then specify the horizontal adjustment value.

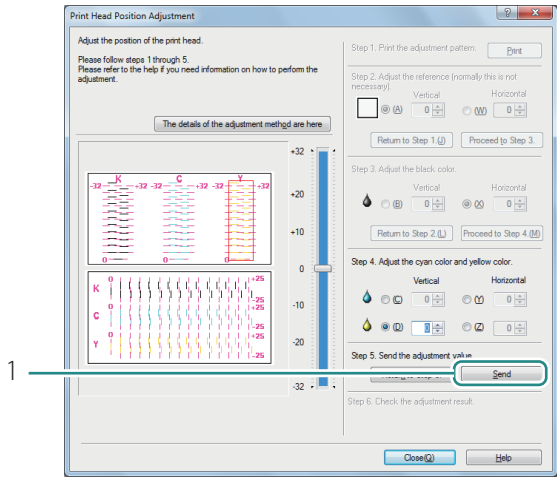


5. Adjust the print head position for yellow. (Adjustment pattern [Y])
Read the vertical and horizontal adjustment values in the same manner as cyan and then click radio buttons (D) and (Z) one after another to specify the vertical and horizontal adjustment values.

NOTE

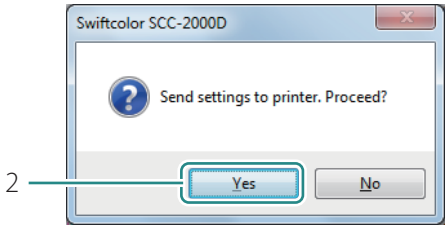
- To specify the adjustment value, move the slider or enter a value directly in the entry box interlocked with the slider.
- The vertical adjustment range is from -32 to +32, and the horizontal adjustment range is from -25 to +25. However, the adjustment range may be limited depending on the current settings. Specify the adjustment value between ▲ and ▼ shown on the slider scale.
- To retry from [Step 3] (adjustment of the print head position for black), click [Return to Step 3].

9 [Step 5] Send the adjustment values to the printer.



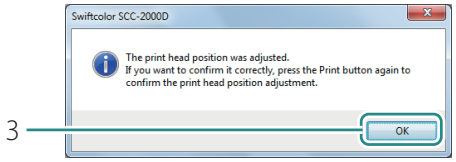
1. Click [Send].

- A confirmation message appears.



2. Click [Yes].

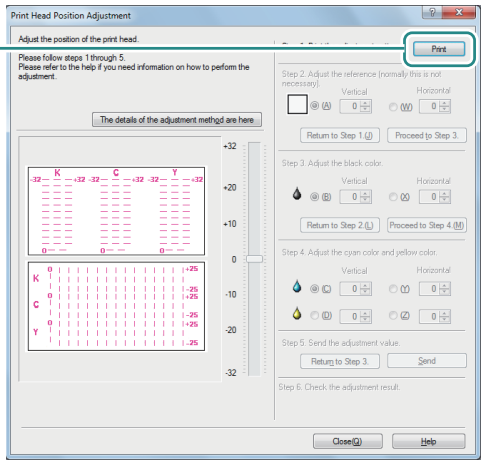
- The print head position is adjusted.



3. Click [OK].

10 Print adjustment patterns again.

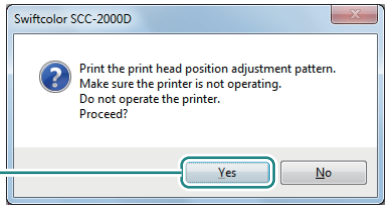
1



1. Click [Print].

- A confirmation message appears.

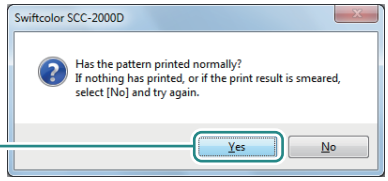
2



2. Confirm the displayed message and then click [Yes].

- Printing of adjustment patterns starts.

3



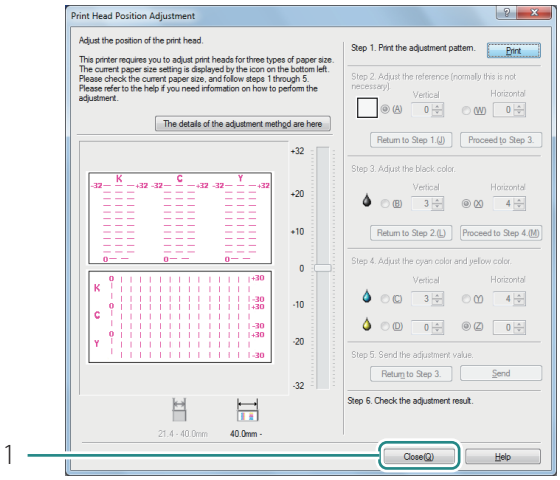
3. When adjustment patterns have been printed normally, click [Yes].

- If you select [No], printing patterns will be printed again.

11 Check the adjustment patterns after adjustment of the head position.

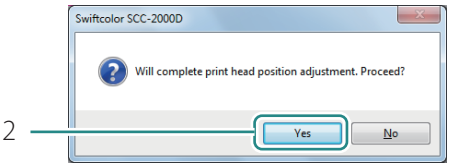
Make sure the lines of each color are smoothly connected at "0" on the adjustment patterns.
If the lines appear to be out of alignment (stepped), readjustment is required.

12 Complete the print head position adjustment procedure.



1. Click [Close].

- A confirmation message appears.



2. Click [Yes].

Checking Setting Values

Can be output the information about the current settings of this printer.
Select the printer or a file (*.txt) as the output destination.

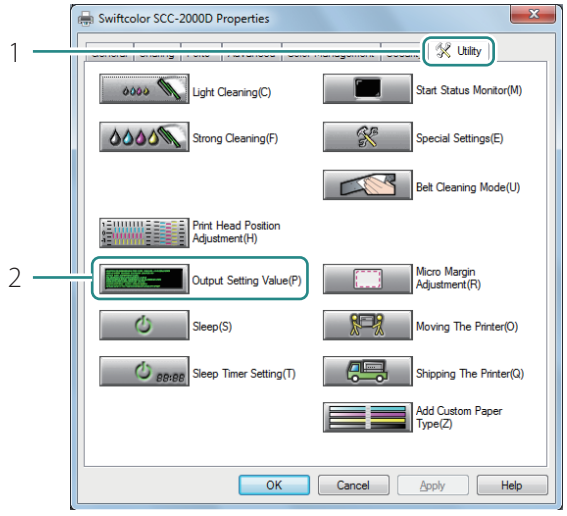
IMPORTANT

- When printing is in progress or an error has occurred, the setting information cannot be printed.

1 When outputting the setting information, check that paper is set in the printer.

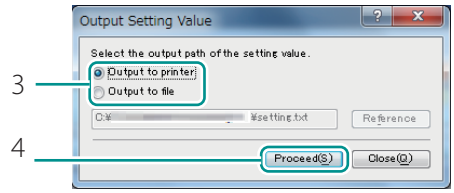
2 Open the printer driver setup window. (P.31)

3 Output the current settings.



1. Click the [Utility] tab.
2. Click [Output Setting Value].

- The [Output Setting Value] dialog box appears.



3. Select an output destination.

- When you selected the "Output to file": Click [Reference], and select the storage location of the file.

4. Click [Proceed].

   The setting values are output.

NOTE

- How to Read the Output Setting Values

```
SCC-2000D
Printer Serial Number ---------- XX XXXX
Firmware ROM Version ---------- Ver.XX.XX
Date and Time(dd/mmm/yyyy) ---------- dd/XXX/20XX XX:XX
Printhead Position Adjustment-V
                    K ---------- X dot
                    C ---------- X dot
                    M ---------- X dot
                    Y ---------- X dot
Printhead Position Adjustment-H
                    K ---------- X dot
                    C ---------- X dot
                    M ---------- X dot
                    Y ---------- X dot
Micro Margin Adjustment
                    Top ---------- X mm
                    Bottom ---------- X mm
                    Left ---------- X mm
                    Right ---------- X mm
Ink Pre-fire on the Paper ---------- OFF
Print Hold Mode ---------- OFF
Prevent Paper Edge Mode ---------- OFF
Sleep Timer Setting ---------- X min
Power Off Timer Setting ---------- X min
Ethernet Information
      Use DHCP ---------- OFF
      Mac Address ---------- X
      IP Address ---------- X
      Subnet Mask ---------- X
      Default Gateway ---------- X
Ink Level Detection Mode ---------- Enabled
      Black Ink Tank ---------- Enabled
      Cyan Ink Tank ---------- Enabled
      Magenta Ink Tank ---------- Enabled
      Yellow Ink Tank ---------- Enabled
```

Cleaning Printer

Clean the printer periodically to preserve the print quality and prevent troubles.

WARNING

- When cleaning the printer, do not use a flammable solvent such as alcohol or thinner.
  If it is brought into contact with the electric parts inside the printer, a fire or electric shock could result.

Cleaning the exterior of the printer

To preserve the print quality, clean the exterior of the printer periodically.

CAUTION

- Before cleaning the printer, be sure to turn it off and unplug the power cord.

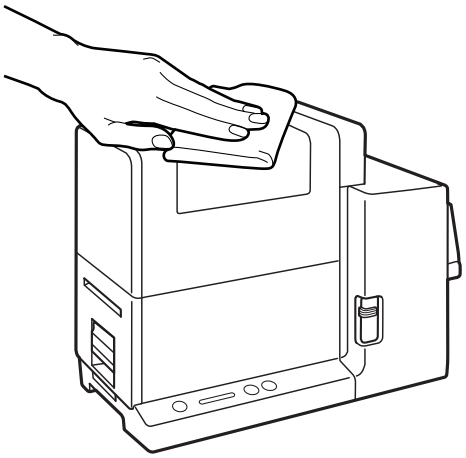
1 Turn off the printer. (P.8)

IMPORTANT

- While the Power lamp is lit or blinking, do not remove the power plug from the outlet. A printer failure could result.

2 Disconnect the power cord and interface cable.

3 Wipe the exterior clean with a damp cloth wrung out thoroughly.



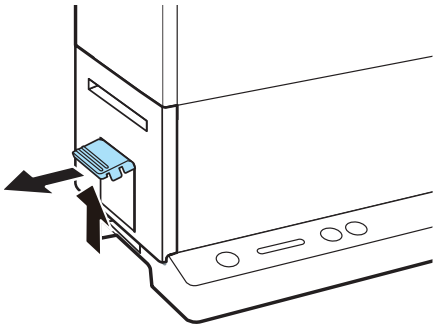
4 Connect the power cord and interface cable.

Cleaning the Transport Unit

If printed paper is stained or paper cannot be fed properly, the transport unit may be stained. Clean the transport unit periodically.

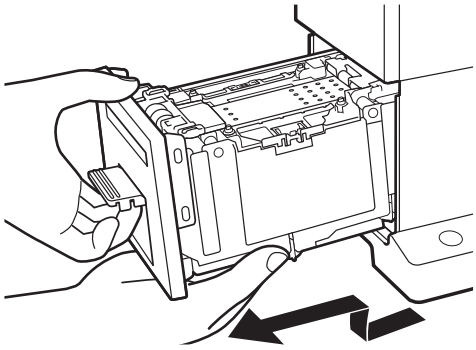
■ Cleaning the periphery of the transport path

1 Pull the transport unit out of the printer.



1. Raise the transport unit lever, and pull the transport unit out.

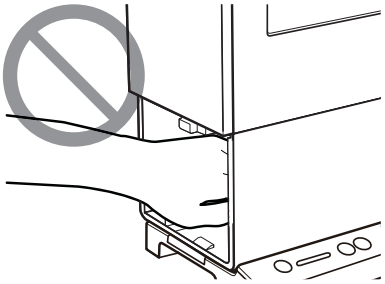
- If you are using the delivery tray (option), remove it.



2. Pull out the transport unit with both hands as shown in the figure.

CAUTION

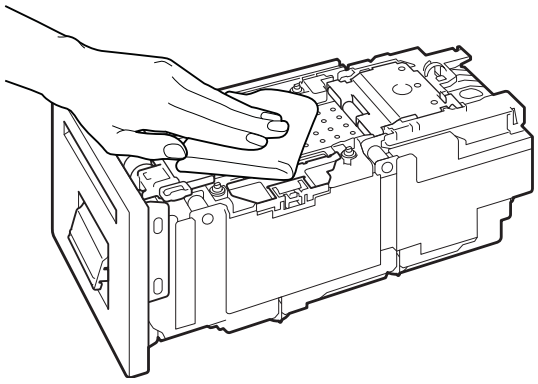
- When pulling the transport unit out of the printer, hold it securely with both hands so that it does not fall down.
- Do not put your hands into inside of the printer. Failures or physical injury could result. Further, your hands or clothing may get dirty with ink adhered inside of the printer.



IMPORTANT

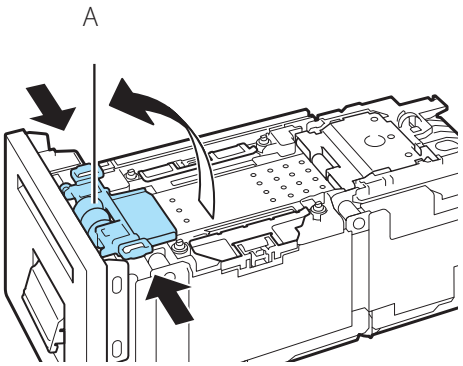
- When pulling the transport unit out of the printer or inserting it in the printer, be careful not to hit it strongly against the table or shelf. The surface of the table or shelf could be damaged.

2 Wipe the transport unit with a dry, lint free cloth.

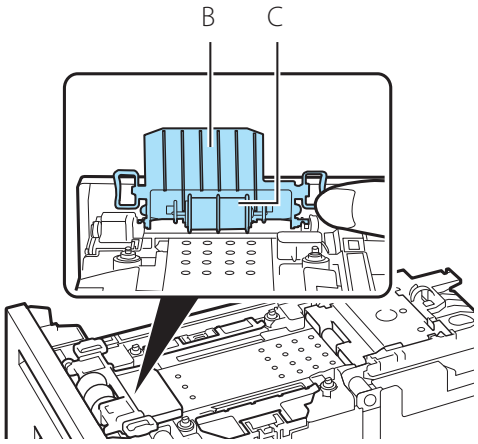


1. Wipe the stain and paper dust off of paper guides and other peripheral areas of the transport path.

- Clean the transport belt by rotating the belt one-fourth of the way at a time. For details on cleaning the transport belt, see "Cleaning the Transport Belt (P.131)".

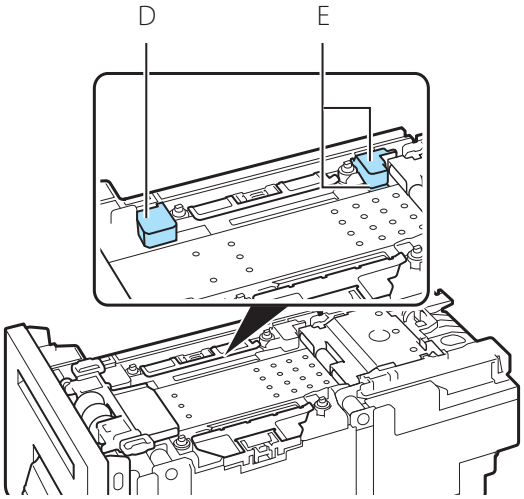


2. Open the paper retainer (A).

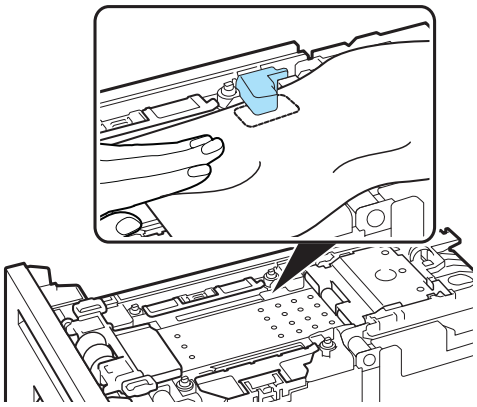


3. Wipe the ink stain and paper dust off of the back side of the paper retainer (B) and roller (C)

- Clean the roller while rotating it.

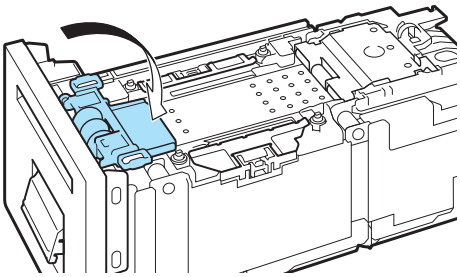


4. Wipe ink and paper dust off the sensors (D and E)



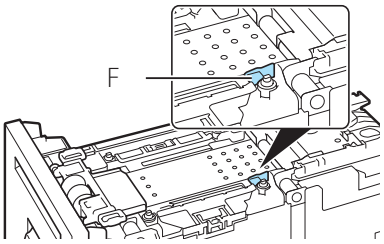
- To clean the sensors , pass a cloth under them.

5. Close the paper retainer.

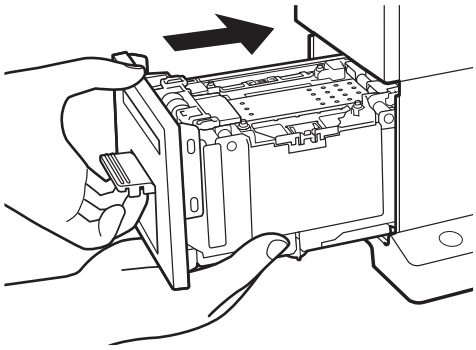


IMPORTANT

- Do not use a paper towel or tissue. If a torn piece or dust of the paper towel or tissue enters inside of the printer, a printer failure could result.
- When cleaning, be careful not to damage the transport path film (F).



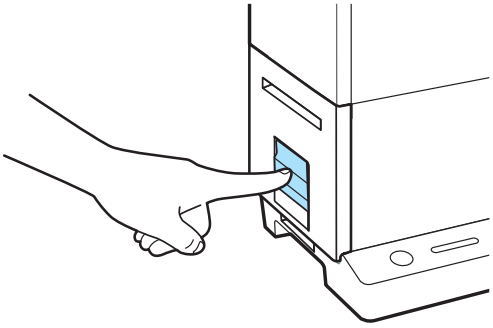
3 Set the transport unit in the printer.



1. Slowly insert the transport unit as far as it will go.

- As you do this, be careful not to touch the paper guides causing their positions to be changed.

2. Push the transport unit lever until it clicks.



CAUTION

- When returning the transport unit back inside the printer, be careful not to get your fingers caught between the transport unit and the inside body of the printer.

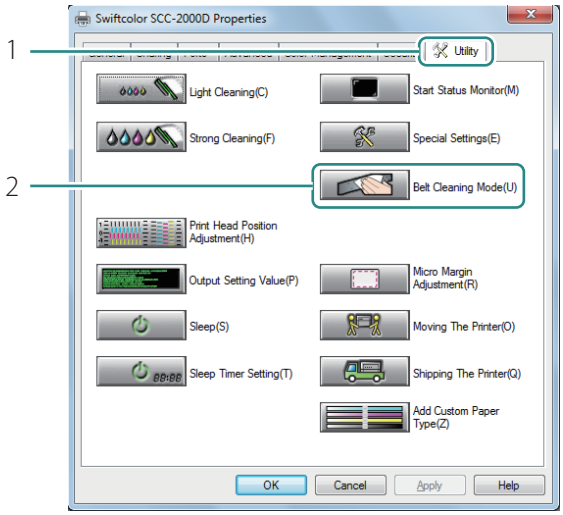
Cleaning the Transport Belt

IMPORTANT

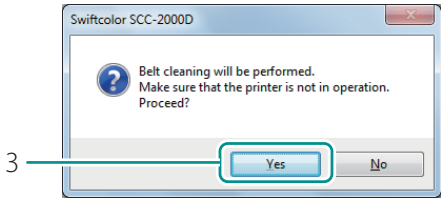
- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".
- When printing is in progress or an error has occurred, [Belt Cleaning Mode] cannot be executed.

1 Open the properties window of the printer. (P.32)

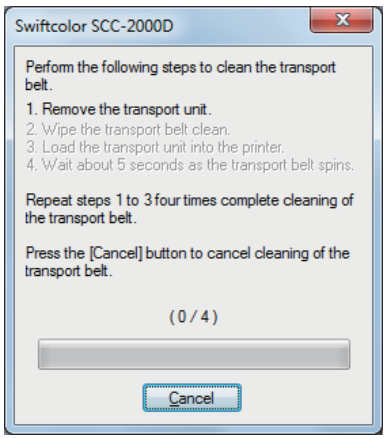
2 Carry out belt cleaning.



1. Click the [Utility] tab.
2. Click [Belt Cleaning Mode].
   - A confirmation message appears.

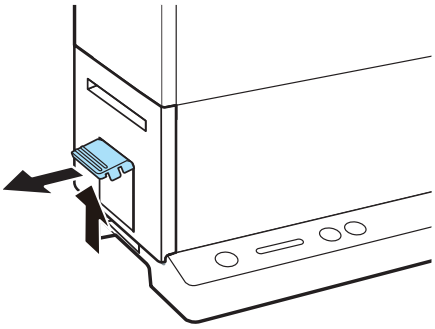


3. Click [Yes].



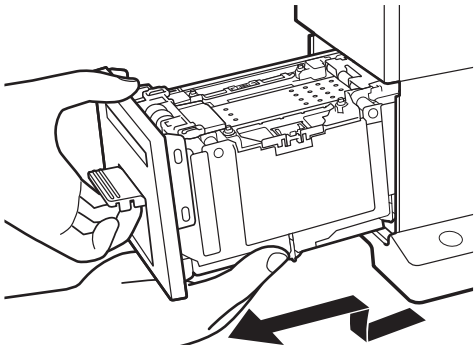
- A screen showing the cleaning procedure appears.

3 Pull the transport unit out of the printer.



1. Raise the transport unit lever, and pull the transport unit out.

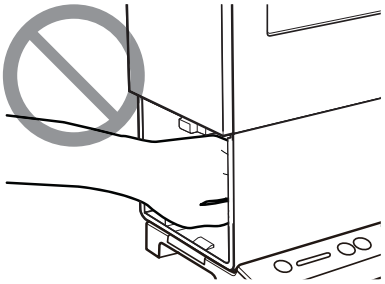
- If you are using the delivery tray (option), remove it.



2. Pull out the transport unit with both hands as shown in the figure.

CAUTION

- When pulling the transport unit out of the printer, hold it securely with both hands so that it does not fall down.
- Do not put your hands into inside of the printer. Failures or physical injury could result. Further, your hands or clothing may get dirty with ink adhered inside of the printer.



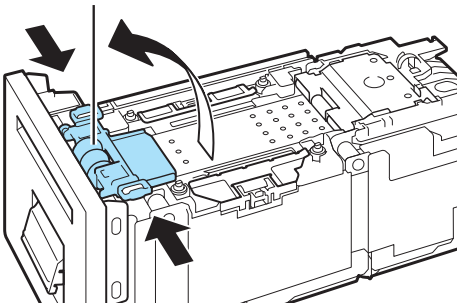
IMPORTANT

- When pulling the transport unit out of the printer or inserting it in the printer, be careful not to hit it strongly against the table or shelf. The surface of the table or shelf could be damaged.

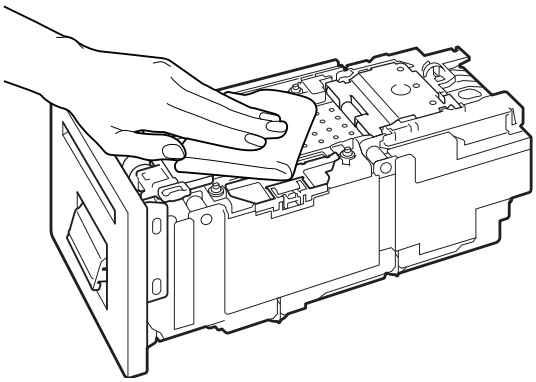
---

4 Wipe the transport belt and paper retainer with a dry, lint free cloth.

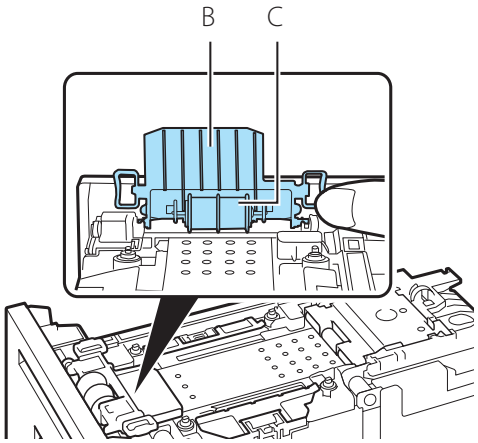
A



1. Open the paper retainer (A).



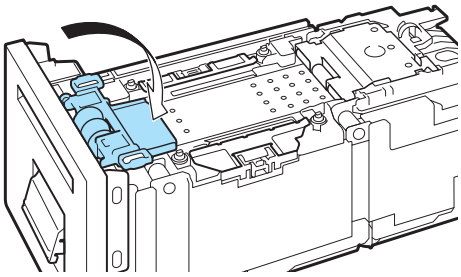
2. Wipe the stain and paper dust off of the transport belt.



3. Wipe the ink stain and paper dust off of the back side of the paper retainer (B) and roller (C).

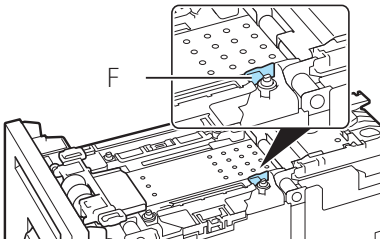
- Clean the roller while rotating it.

4. Close the paper retainer.

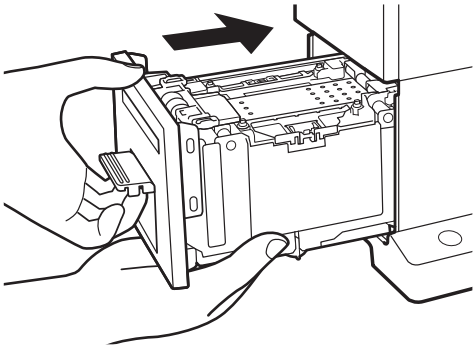


IMPORTANT

- Do not use a paper towel or tissue. If a torn piece or dust of the paper towel or tissue enters inside of the printer, a printer failure could result.
- When cleaning, be careful not to damage the transport path film (F).



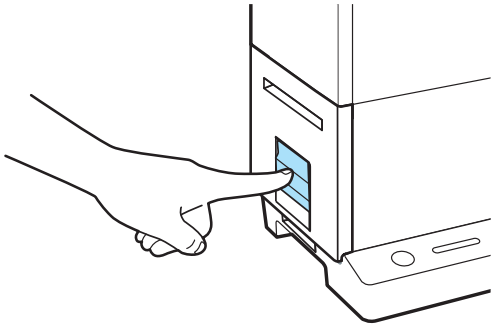
5 Set the transport unit in the printer.



1. Slowly insert the transport unit as far as it will go.

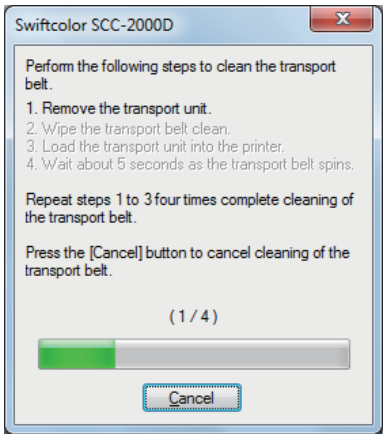
- As you do this, be careful not to touch the paper guides causing their positions to be changed.

2. Push the transport unit lever until it clicks.



CAUTION

- When inserting the transport unit, be careful not to get your fingers caught between the transport unit and the main body of the printer.

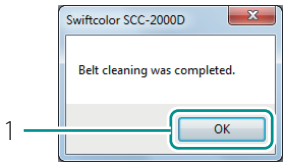


- When the transport belt rotates, the progress bar moves. Check that the progress bar has moved, and then begin the next cleaning step.
- The figure on the left shows that the first cleaning step has been completed.

6 Repeat steps 3 to 5 four times.

After repeating four times, a completion message appears.

7 Complete the belt cleaning procedure.



1. Click [OK].

Cleaning the Pick-up Roller

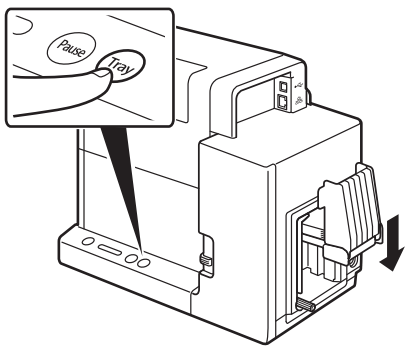
If printed paper is stained or paper cannot be fed properly, the pick-up roller may be stained. Clean the tpick-up roller periodically.

IMPORTANT

- While the Power lamp is lit or blinking, do not remove the power plug from the outlet. A printer failure could result.

1 Lower the feeder lift tray.

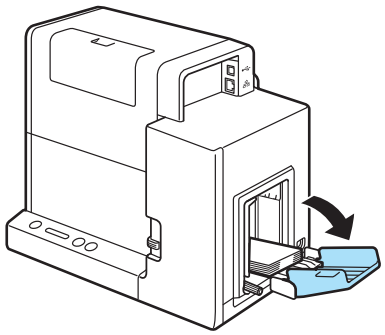
If the feeder lift tray is already lowered, proceed to step **2**.



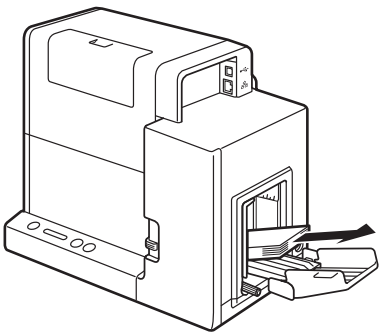
1. Press the Tray key.

- Wait for the feeder lift tray to stop.

2 Remove the paper from the printer.



1. Open the auxiliary tray.



2. Remove the paper.

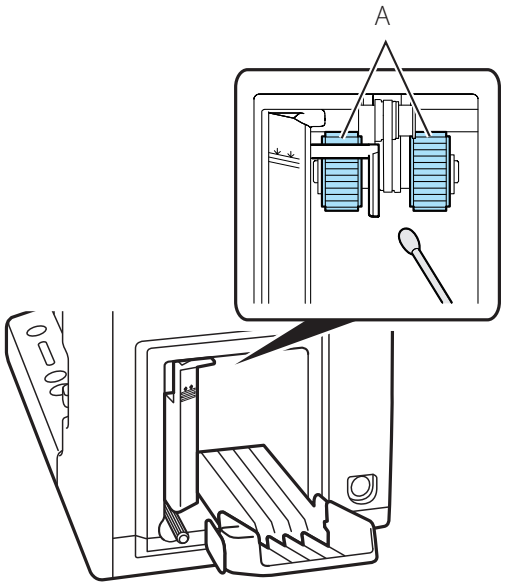
3 Turn off the printer. (P.8)

IMPORTANT

- While the Power lamp is lit or blinking, do not remove the power plug from the outlet. A printer failure could result.

4 Disconnect the power cord and interface cable.

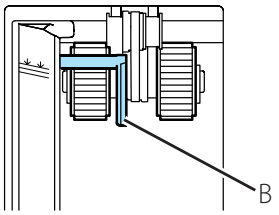
5 Wipe the pick-up rollers clean with a damp cotton swab.



- Carefully wipe the stain off the pick-up rollers (A).

IMPORTANT

- When cleaning, be sure not to get the cotton swab or your hand caught in the sensor lever (B).



6 Connect the power cord and interface cable.

Chapter 4

Troubleshooting

Here are explanations of actions required for dealing with problems that occur while using this printer.

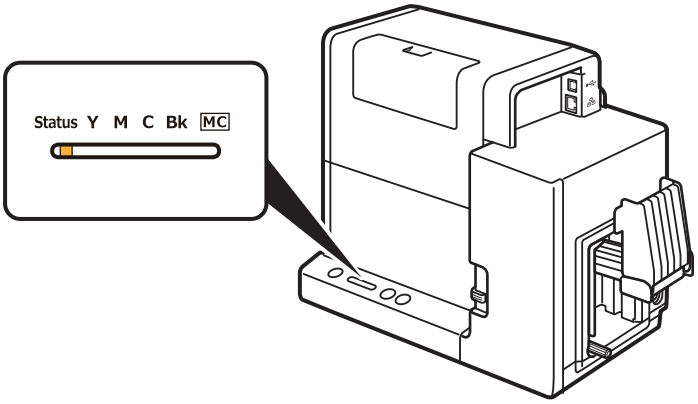
For Troubleshooting Operations.....142
List of Error Messages/Warning Messages.....158

For Troubleshooting Operations

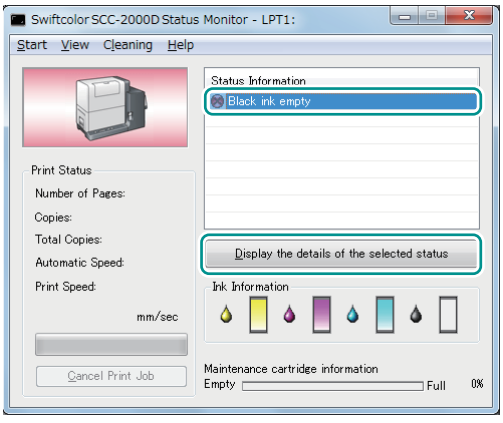
Here are explanations of actions required for dealing with problems that occur while using this printer.
If problems persist after trying these procedures, contact the dealer.

Status Lamp Lights up Orange

When an error occurs in the printer requiring actions the Status Lamp of the Operation Panel will light up orange (operator call error).



The error details and actions required can be confirmed with the Status Monitor.
After selecting the message in [Status Information], click [Display the details of the selected status] (Alternatively, double-click the message of the [Status Information]).

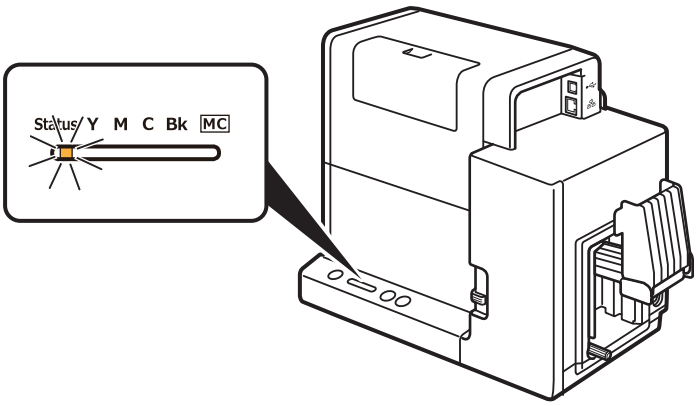


IMPORTANT

- For information on the details of the messages displayed on the Status Monitor and how to deal with errors, refer to "List of Error Messages/Warning Messages (P.158)".
- When error messages are displayed, the printer will automatically go offline.
  Depending on the type of error, even after handling the error, there are cases where it will not go online automatically. In this case, press the pause key and bring it online.
- If multiple errors occur simultaneously, the errors will be shown in order from the importance. Handle all of the errors.

Status Lamp Is Flashing Orange

When an error occurs in the printer and normal operation is not possible, the Status Lamp of the Operation Panel will flash orange (service call error).



Handle accordingly:

1 Turn off the printer. (P.8)

2 After the Power Lamp goes off, turn the power on again.

3 If an error occurs after turning on the power again, contact the dealer.

When contacting, inform them of the error number (4 digits) displayed on the Status Monitor.

Power Does not Turn on

Points to Confirm	Solution
Is the AC adapter and power cord properly connected?	After confirming that the AC adapter and power cord are properly connected, insert the power plug firmly into the power outlet.
Is the power outlet supplying electricity?	Try plugging in other electric appliances. If it works properly, a printer failure is possible. Contact the dealer.

Printing Does not Start/Complete

Points to Confirm	Solution
Did an error occur?	Double-click the message of the [Status Information] displayed on the Status Monitor and operate according to the directions given.
Is it connected with the computer?	Connect the computer and the printer correctly with the interface cable.
Is the printer for printing correctly selected?	Select the printer to be used with the [Printing] dialog box.
Are you printing something such as a large image?	If the Status Lamp (green) is flashing, the data is still being processed. stand by.
Are you printing for long period?	When printing for long period the print head temperature will rise. To protect the head, printing operations will be interrupted. After a while printing will resume.

Points to Confirm	Solution
Are the port settings correct?	Confirm the port settings with the following steps: 1. Click on [Devices and printers] from the Windows [Start] menu. For Windows 8: Move the pointer to the top right or lower right corner of the screen to show the "charm bar" and tap or click [Settings], [Control Panel], [Hardware and Sound], and [Devices and Printers] in order. 2. Right-click the printer icon and select [Printer Properties]. The properties window will appear. 3. Click on the [Ports] tab and confirm that the port is correctly selected. e.g.) For USB connection : USBnnn ("nnn" represents numbers) For network connection : SCnnnnnn ("nnnnnn" represents numbers) If the setting is incorrect, set it again correctly. If the port to be used is not available, uninstall the printer driver and install them again. 4. Click [OK].
(When you are connected within a network environment) Are the printer and computer configured on the same network?	Make sure that the computer and this printer is installed on the same network according to the next steps: **(Confirming the IP address)** 1. Confirm this printer's IP address. Start the network utility. When the network utility starts, the printer used will be detected and the configured IP address will be displayed 2. Confirm this computer's IP address. 1) Enter "cmd" in the "Search programs and files" of the [Start] menu. For Windows 8: Move the pointer to the upper right corner (or lower right corner) of the Windows start screen to display the "charm bar" and enter "cmd" into [Search]. 2) In the window started, enter "ipconfig/all". 3) After confirming the IP address, close the screen.

	As a result of confirming the IP addresses, if the printer and computer are not on the same network, it is necessary to change the printer's IP address according to the following steps and add a new port. **(Changing the printer's IP address)** Start the network utility and change this printer's IP address. (P.185) **(Adding a new port)** 1. Click [printers and devices] from the Windows [Start] menu. For Windows 8: Move the pointer to the top right or lower right corner of the screen to show the "charm bar" and tap or click [Settings], [Control Panel], [Hardware and Sound], and [Devices and Printers] in order. 2. Right-click the printer icon and select [Printer Properties]. The properties window will appear. 3. Click on the [Ports] tab and click [Add port]. 4. Select [CIPN Port] and click [New Port...]. The [CIPN Port] dialog box will be displayed. 5. Click [Search for Printers]. This printer will appear in [List of Printers]. If this printer is not displayed, click [Specify range of search] and search for the IP address. 6. Enter the new port name in the [destination name]. 7. Click [OK].
Is the test pattern printed?	From [Utility] sheet of the printer driver, try performing the print out of a head position adjustment pattern or print the configured values. If printed, confirm the configuration and operation procedures of the application software and confirm the contents of the data to be printed.
Are there problems occurring with the computer?	Print after restarting the computer. Also, delete any print jobs left over when starting.

Points to Confirm	Solution
Is the computer's configuration for suspend or sleep state set to something other than "none"?	Configure the time value that the computer goes into suspend or sleep to "none". When the computer resumes operation from suspend or sleep, data sent from the computer will be discarded. The time value for the computer's suspend or sleep condition is configured in the [Power Supply Options] of the [Control Panel].
Is "no ink" displayed even though an ink tank with remaining volume is set?	Set the ink tank again.

Paper Does not Feed Properly

Points to Confirm	Solution
Is the dedicated paper being used?	Use dedicated paper. Do not use paper other than dedicated paper. It can cause paper jams and malfunctions.
Is the paper switch lever set properly?	Check that the paper switch lever is set to the appropriate position according to the paper to be printed on. (P.13)
Is the paper leading edge folded or is the paper curled?	If the paper leading edge is folded or curled, the paper will not feed properly. Also, it can cause paper jams and malfunctions.
	Flatten the paper so that the curl. If the paper cannot be flattened, adjust the paper guides to the paper width, and then print. (P.157)
Is the label's adhesive loose?	Do not use paper when the labels are loose. It can cause malfunctions.
Are the paper guides set properly?	Check that the paper guides are set to the MM position. (P.19)
	If the paper guides are adjusted to the paper width, check that the guides are set properly. If the paper guides are set narrower than the width of the set paper, paper jams could result. (P.157)

Points to Confirm	Solution
Is the transport unit or pick-up roller stained?	If the transport unit or pick-up roller is stained with paper dust or ink, paper jams are more likely to occur. Clean them regularly. (P.124).
Is the maximum number of sheets that can be set exceeded?	Check the maximum number of sheets. (P.197)

Improving the Print Quality

Condition	Solution
Streaks appears in the print result.	Confirm that the paper set (size, shape, and type) matches the paper (size, shape, and type) configured by the application software or printer driver.
	Set the resolution to [Input resolution 1200dpi] (prioritize image quality) and then print. (P.56)
There are areas missing and shown white in the printed results.	Confirm that the paper set (size, shape, and type) matches the paper (size, shape, and type) configured by the application software or printer driver.
	Clean the printhead. (P.105)
The printing is blurred.	Confirm that the paper set (size, shape, and type) matches the paper (size, shape, and type) configured by the application software or printer driver.
	Clean the printhead. (P.105)

Condition	Solution
The color deviation appears in the print result.	Confirm that the paper set (size, shape, and type) that displays color deviation matches the paper (size, shape, and type) configured by the application software or printer driver.
	Adjust the position of the printhead. (P.109)
	Set the resolution to [Input resolution 1200dpi] (prioritize image quality) and then print. (P.56)
	If you have several printers, check that you have not changed the printer and transport unit combinations. Because accurate adjustments are made between each printer and its transport unit, it is not possible to use a transport unit of another printer.
The halftone representation is coarse.	Open the [Color] sheet of the printer driver, and set the [Half-tone] to [Error Diffusion]. (P.56)
The area around characters or the layer areas appear uneven.	Open the printer driver's [Color] sheet and set the [Half-tone] to [Error Diffusion]. (P.56)
	Confirm that the paper set (size, shape, and type) matches the paper (size, shape, and type) configured by the application software or printer driver.
During micro margin printing, the print position and margins are off alignment.	Adjust the print position and trimming position for micro margin printing. (P.48)
	If you have several printers, check that you have not changed the printer and transport unit combinations. Because accurate adjustments are made between each printer and its transport unit, it is not possible to use a transport unit of another printer.
Overall appearance of the printed output is not satisfactory.	Use dedicated paper. When paper other than dedicated paper is used the print quality may diminish. Also, it may cause paper jams and malfunctions.
	Confirm that the paper set (size, shape, and type) matches the paper (size, shape, and type) configured by the application software or printer driver.
	Set the resolution to [Input resolution 1200dpi] (prioritize image quality) and then print. (P.56)

Condition	Solution
Printed paper is wavy and rubbing marks are left on the paper.	Confirm that the paper set (size, shape, and type) matches the paper (size, shape, and type) configured by the application software or printer driver.
	The paper may be curled. Flatten the paper. If the paper cannot be flattened, adjust the paper guides to the paper width, and then print. (P.157)
The color printed differs from the color on screen.	Open [Color] sheet of the printer driver, and adjust the settings for image quality and color. (P.56)
	Confirm that the [Display] and [Screen Properties] are correctly configured in the control panel of the computer used. Especially if the type of display or gamma factor is wrongly configured, the proper color will not be displayed.
The back side of the paper gets dirty.	Printing on paper of a wrong size could stain the transport belt, paper guides, or other areas. Confirm that the size of the set paper and the [Paper Size] configured by the application software or printer driver are the same. If the transport belt, paper guides, or other areas are stained, clean the transport unit. (P.124)
	Open [Utility] sheet of the printer driver and print after setting [Reduce smudge on media edge] from [Special Settings]. (P.80)
	The paper may be curled. Flatten the paper. If the paper cannot be flattened, adjust the paper guides to the paper width, and then print. (P.157)
	The sheets may be stacked before the printed surface is dry. Open [Utility] sheet of the printer driver, and enable [Print&Hold Mode] in [Special Settings]. This will stop the paper at the ejection slot one sheet at a time. (P.80)

Condition	Solution
The margin of the printed result is too small or large	Configure the paper size set by the application software or printer driver as follows: When the margin is small or When images on the edge of the paper are missing: Decrease the [Paper Length] and adjust the image according to the paper size changed. Also, if images on the edge of the paper are missing, confirm that the transport area is clean before printing. If stained, clean the transport unit. (P.124) When the margin is large: Increase the [Paper Length] and adjust the image according to the paper size changed.

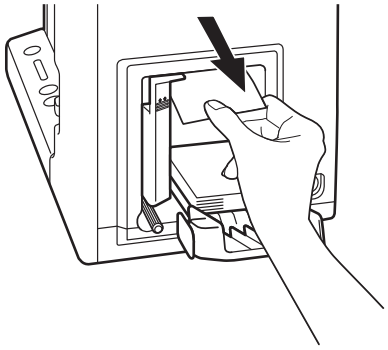
Paper Is Jammed

When a paper jam occurs during printing, the printing is interrupted and the Status Monitor will display an error message such as "Paper jam #****" (**** represents numbers).
Remove the paper jam according to the following steps:

IMPORTANT

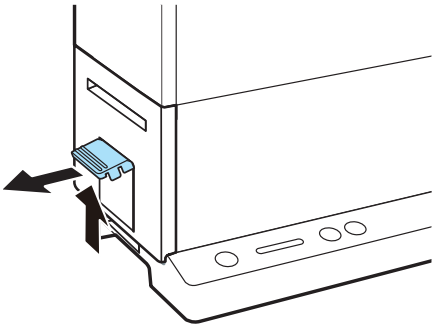
- Use the dedicated paper. When paper that is not compatible is used, blurring or bleeding may occur and it may adversely affect the printer, causing malfunctions.
- If the paper leading edge is folded or the paper is curled, paper jams may occur.

1 Check the feeder slot.



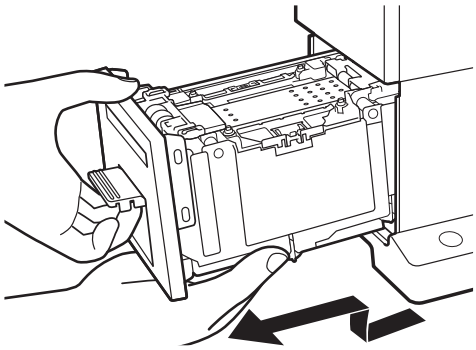
- If paper is jammed, remove it.

2 Check the transport unit.



1. Raise the transport unit lever, and pull the transport unit out.

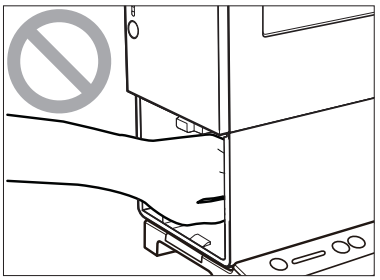
- If you are using the delivery tray (option), remove it.



2. Pull out the transport unit with both hands as shown in the figure.

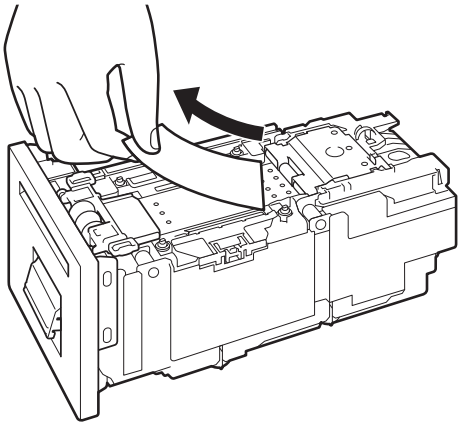
CAUTION

- When pulling the transport unit out of the printer, hold it firmly with both hands so that it does not fall.
- Do not put your hands into inside of the printer. Failures or physical injury could result. Further, your hands or clothing may get dirty with ink adhered inside of the printer.

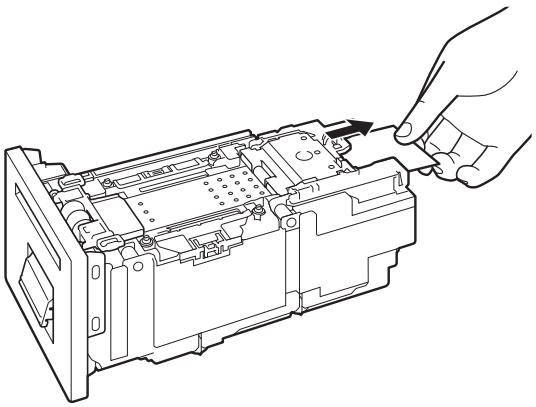


IMPORTANT

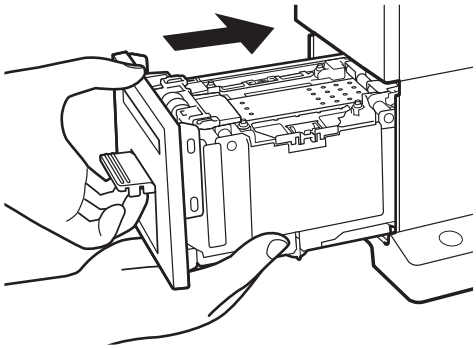
- When pulling the transport unit out of the printer or inserting it in the printer, be careful not to hit it strongly against the table or shelf. The surface of the table or shelf could be damaged.



3. Remove the jammed paper from the transport unit

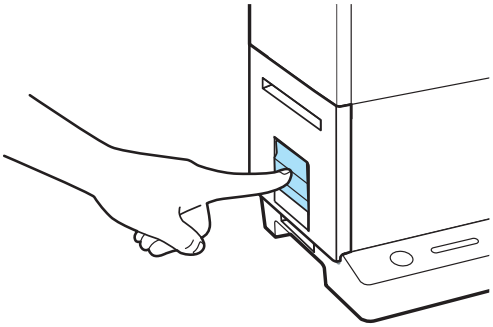


- Check that the paper is not jammed further in the transport unit. If paper is jammed, remove it.



4. Slowly insert the transport unit as far as it will go.

- As you do this, be careful not to touch the paper guides causing their positions to be changed.



5. Push the transport unit lever until it clicks.

- To cancel the printing, click on [Cancel Print Job] on the Status Monitor.

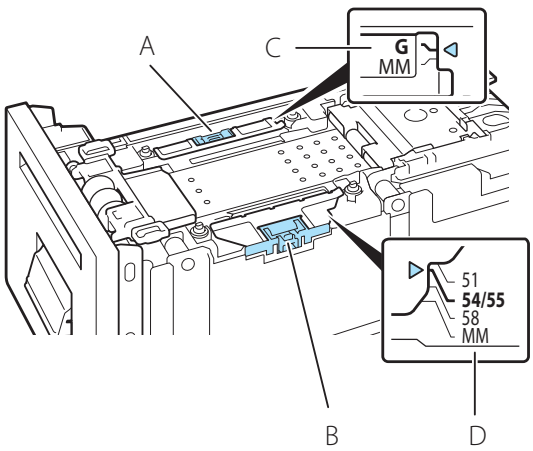
CAUTION

- When returning the transport unit back inside the printer, be careful not to get your fingers caught between the transport unit and the inside body of the printer.

IMPORTANT

- **If paper jams or printing surface rubbing does not improve**

  Adjust the paper guides to the paper width. However, when the paper guides are adjusted to the paper width, micro margin printing is not possible.



1. While holding the paper guide (A) with your fingers, adjust it to G of the index (C).

   - When setting paper guide (B) to a position other than MM, adjust paper guide (A) to G of the index (C).

2. While holding the paper guide (B) with your fingers, adjust it to the paper width index (D). For example, the figure on the left shows adjustment to guide position 54.0 mm/55.0 mm.

- When the paper guides are adjusted to the paper width, be careful of the following points.
  - When the paper guides are adjusted to the paper width, micro margin printing is not possible.
  - When performing micro margin printing, be sure to set the paper guides to the MM position. Otherwise, the transport belt, paper guides, or other areas may be stained with ink. If stain occurs, clean the transport unit. (P.126)
  - When you change the size of the set paper, reset the paper guides. If the paper guides are set narrower than the paper width, paper jams could result.
- For dedicated paper, set the paper guide to the position shown in "Table 1: Guide positions of paper."

Table 1: Guide positions of paper

Paper name	Guide position (mm)
Buisiness Card 55.0 x 91.0 mm	54/55
Buisiness Card US 51.0 x 89.0 mm	51
Card CR80 Paper 54.0 x 85.6 mm	54/55
Card CR80 Plastic 54.0 x 85.6 mm	54/55
Card2 58.0 x 81.0 mm	58
Card 55.0 x 172.0 mm	54/55

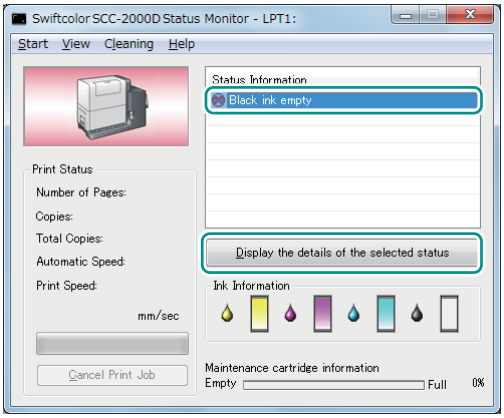
The paper guides cannot be used for paper whose width is not 51 mm, 54 mm, 55 mm, or 58 mm. For paper that cannot use the paper guides, fix the curl.

List of Error Messages/Warning Messages

When trouble occurs while operating the printer or printing, the Status Monitor will activate and display error messages and warning messages. If problems persist after trying these procedures, please contact the dealer.

IMPORTANT

- When error messages are displayed the printer will automatically go offline. Depending on the type of error, even after handling the error, there are cases where it will not go online automatically. In this case, press the pause key and bring it online.
- If multiple errors occur simultaneously, the errors will be shown in order from the importance.
- If the Status Monitor is minimized or is in the task tray, Status Monitor window will be displayed when an error occurs.
- After selecting the message displayed, if [Display the details of the Status] is clicked (or the message of the [Status Information] is double-clicked), a separate screen will appear to confirm the message details along with steps to handle the error.



Error Message

Operator Call Error

If problems persist after trying these procedures, please contact the dealer. (#**** represents numbers)

Error Message	Error Content	Handling
Transport unit lever open	The transport unit lever is open.	Close the transport unit lever.
Ink tank cover open	The ink tank cover is open.	Close the ink tank cover.
XXXX ink empty ("XXXX" is black, cyan, magenta, or yellow)	Ink has run out.	Replace with new ink tank. (P.91)
XXXX ink tank setting error ("XXXX" is black, cyan, magenta, or yellow)	The ink tank is not inserted properly.	Set the ink tank again. (P.91)
XXXX ink tank abnormality #** ("XXXX" is black, cyan, magenta, or yellow)	The ink tank is not recognized. Either the ink tank is abnormal or an unsupported ink tank is installed.	Replace with new ink tank. (P.91)
Maintenance cartridge full #**	The maintenance cartridge's ink is full.	Replace with new maintenance cartridge. (P.98)
Maintenance cartridge setting error	The maintenance cartridge is not inserted properly.	Set the maintenance cartridge again. (P.98)
Maintenance cartridge abnormality	The maintenance cartridge is not recognized.	Replace with new maintenance cartridge. (P.98)

Error Message	Error Content	Handling
Paper empty #****	Out of paper.	Set new paper. (P.13) To cancel printing, click on [Cancel Print Job] in the Status Monitor.
		Confirm the the paper so that the further edge touches the back of the feeder lift tray.
Paper length different #****	The length of the paper that is set differs from the paper size configured by the application software or printer driver.	If the paper is different, replace with the proper paper.
		If the application software or printer driver's configuration is different, click on the Status Monitor's [Cancel Print Job] and print again after correctly configuring the paper size.
Paper jam #****	Paper is jammed.	Remove the paper jam and set the paper again. (P.153)
		If out of paper, resupply with new paper. (P.13) To cancel printing, click on [Cancel Print Job] in the Status Monitor.
		If the same error occurs, confirm the following: - Check that the paper switch lever is set to the appropriate position for the paper. (P.13) - Confirm that the paper set (size and shape) matches the paper (size and shape) configured by the application software or printer driver. - There is a possibility that the transport unit's sensor is dirty. Clean the transport unit. (P.126)

Error Message	Error Content	Handling
Feeder tray overloaded #****	The amount of paper loaded in the feeder lift tray is over the limit.	Load paper so that the number of sheets is less than the specified amount and the top surface of the paper stack is lower than the paper loading limit mark.
		If there is paper in the feeder slot, remove it.
Feeder tray error	The feeder lift tray does not lower.	Confirm that is no foreign matter under the paper lift tray.
Paper switch lever check#****	The paper switch lever needs to be checked a set position.	Check that the paper switch lever is set to the appropriate position for the paper. (P.13) After setting the paper switch lever correctly, press the Pause key to resume printing. To cancel printing, click on [Cancel Print Job] in the Status Monitor.
Update error #****	The firmware update failed.	Perform the update again.
Data mismatch #****	Abnormal data was received from the computer.	Confirm the cable connection and print again.
Memory full	Insufficient memory due to the overlay printing's form data being large.	Click on [Cancel Print Job] in the Status Monitor, and cancel printing and recreate the form data.
Overlay data error	Error with overlay printing data.	Check the cable connection and retry printing.
Print head position error #****	Problem with either the transport unit or print head.	Remove the transport unit and confirm that no foreign matter is on the insides.
		Open the ink tank cover and confirm there is no foreign matter around the print head.

Error Message	Error Content	Handling
Transport unit error #****	There are problems with transport unit internals.	Remove the transport unit and confirm that no foreign matter is on the insides.
Connected to a model other than Swiftcolor SCC-2000D	It is connected to a printer other than this printer.	Connect with this printer.
Bidirectional communication error	Bidirectional communication cannot be established between computer and printer.	Confirm that the printer's power is on (online or sleep state). Restart the computer and printer.
Unknown error #****	An unknown error was returned.	Confirm the printer driver's version. If the printer driver used is not the latest version, download the latest version from the website and install. If the same error occurs again, take note of the message displayed (#****) and contact the dealer.
XXXX ink level unknown ("XXXX" is black, cyan, magenta, or yellow)	The remaining ink level cannot be detected.	Replace with new ink tank. (P.91) Continuing to print with an emptied ink tank or with ink tanks not supported by this product may damage the printer. To continue printing, the ink level detection function must be disabled. Press the printer's pause key for more than 5 seconds. After this, the ink tank's ink level detection will be disabled and the disabling action will be logged.

IMPORTANT

- Printing with the ink level detection function disabled may damage the printer or cause errors. We cannot be held responsible for malfunctions as a result of refilling the ink or installing unsupported ink tanks.
- Once the ink level detection function is disabled, the ink level function cannot be restored for that ink tank. Replace with a new ink tank.

Service Call Error

Error Message	Error Content	Error Content
Service call error #****	An error that cannot be fixed by the customer occurred.	Turn the power off then on. If the same error occurs again, take note of the message displayed (#****) and contact the dealer.

Warning Message

Warning Message	Warning Content	Handling
XXXX ink low ("XXXX" is black, cyan, magenta, or yellow)	The remaining ink is low.	Prepare a new ink tank.
Maintenance cartridge level low	The maintenance cartridge is running out of space and is about to be full.	Prepare a new maintenance cartridge.
Stopping XXXX ink level detection ("XXXX" is black, cyan, magenta, or yellow)	The ink level detection function is disabled.	Set an ink tank that is compatible with this printer.
The print speed is not optimal.	A fixed print speed is specified but the print speed is not optimal.	Open the [Advanced Settings] sheet of the printer driver and check the option [Automatic Speed] for [Print Speed].
		Set the print speed to something slower than the current setting.
Temperature/humidity sensor not connected.	The temperature/humidity sensor needs to be replaced.	Take note of the message displayed (#****) and contact the dealer.
The battery for the clock has ran out.	The clock's (RTC) battery needs to be replaced.	Take note of the message displayed (#****) and contact the dealer.
Data transmission delayed.	Data generation processing on the computer is not keeping up with the printing speed set by the printer driver.	Printing will resume as the processing progresses. Please wait a moment.
		If printing is being performed in 1st Print Priority mode, printing starts after ejecting a blank sheet

Warning Message	Warning Content	Handling
Unknown warning #*****	An unknown warning was returned.	Confirm the printer driver's version. If the printer driver used is not the latest version, download the latest version from the website and install. If the same error occurs again, take note of the message displayed (#*****) and contact the dealer.

Chapter 5

Appendix

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Moving Printer

Procedures for moving the printer for relocation, maintenance, etc. are described below. Select either of the following procedures according to the purpose of movement of the printer, and be sure to follow the selected procedure.

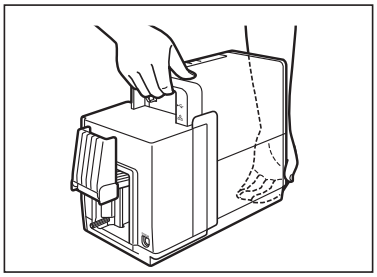
- **When Moving the Printer Indoors:**
  Move the printer following the procedure described in "When Moving the Printer Indoors (P.168)"
- **When transporting the printer for relocation, moving, etc. over a long distance or by use of a transportation means (airplane, train, automobile, etc.) accompanied by vibrations:**
  Make preparations following the procedure described in "Shipping the Printer (P.172)"

When Moving the Printer Indoors

When moving the printer indoors, be sure to follow the procedure described below.

CAUTION

- Before moving the printer, be sure to execute [Moving The Printer] from the printer driver. Moving the printer without taking necessary measures could cause ink leak inside the printer, resulting in a fire, electric shock, or machine failure.
- When carrying the printer, be sure to securely hold the printer with both hands to avoid dropping the printer. In addition, do not hold the feeder lift tray or the delivery tray (option). Doing so may break the tray causing to drop the printer. This may lead to injury.



- Always hold the printer level and carry it slowly. If ink is spilled inside the printer while moving it, this could cause a fire or serious electrical shock or damage the printer.

IMPORTANT

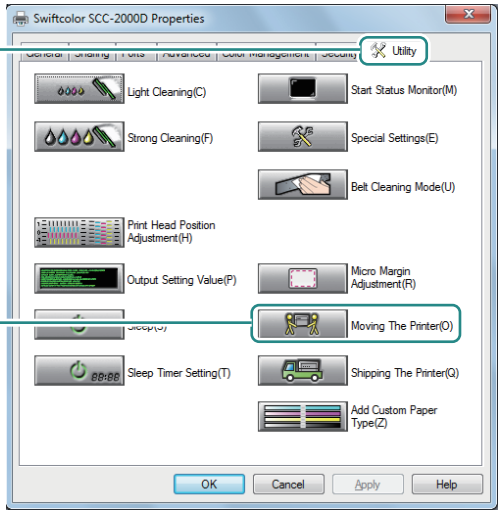
- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)".

- When printing is in progress or any error has occurred, [Moving The Printer] cannot be executed.
- [Moving The Printer] consumes ink. Execute it only when necessary.
- Do not move the printer with the ink tank cover open or with the transport unit drawn out. They could be damaged or a printer failure could result.
- For how to install the printer after movement, refer to the "Setup Guide."

1 Open the properties window of the printer. (P.32)

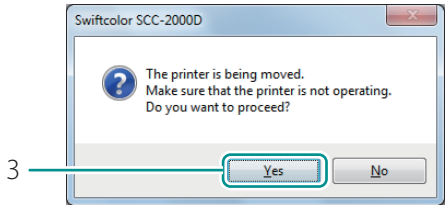
2 Execute [Moving The Printer].

Remove ink from the ink receiver so that ink does not leak during movement.



1. Click the [Utility] tab.
2. Click [Moving The Printer].

- A confirmation message appears.



3. Click [Yes].

- Ink bleeding starts.
  Do not operate the printer before the message indicating that removal of ink is completed appears.

IMPORTANT

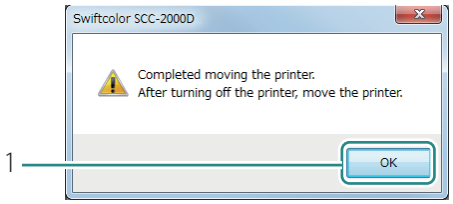
- During execution of [Moving The Printer], observe the following precautions:

- Do not turn off the printer.
- Do not open/close the ink tank cover and transport unit lever.
- Do not operate any other component of the printer.

NOTE

- If the message "Maintenance cartridge full" appears, replace the maintenance cartridge with a new one, and then click [Retry]. For how to replace the maintenance cartridge, see "Replacing Maintenance Cartridge (P.98)"

3 Check that execution of [Moving The Printer] is completed.



1. Click [OK].

4 Turn off the printer. (P.8)

IMPORTANT

- When the Power lamp is lit or blinking, do not remove the power plug from the outlet. A printer failure could result.

5 Disconnect the power cord and interface cable.

6 Move the printer.

IMPORTANT

- Do not move the printer with the ink tank cover open or with the transport unit drawn out. They could be damaged or a printer failure could result.

7 After moving the printer to the destination, connect the power cord and interface cable.

8 Turn on the printer. (P.7)

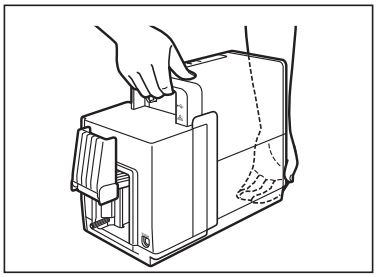
Shipping the Printer

When transporting the printer for relocation, moving, etc. over a long distance or by use of a transportation means (airplane, train, automobile, etc.) accompanied by vibrations, be sure to make preparations following the procedure described below.

CAUTION

- Before shipping the printer, be sure to execute [Shipping The Printer] from the printer driver. Also when shipping the printer, set the protectors.
  Shipping the printer without taking necessary measures could cause ink leak inside the printer, resulting in a fire, electric shock, or machine failure.

- When carrying the printer, be sure to securely hold the printer with both hands to avoid dropping the printer. In addition, do not hold the feeder lift tray or the delivery tray (option). Doing so may break the tray causing to drop the printer. This may lead to injury.



- Always hold the printer level and carry it slowly. If ink is spilled inside the printer while moving it, this could cause a fire or serious electrical shock or damage the printer.

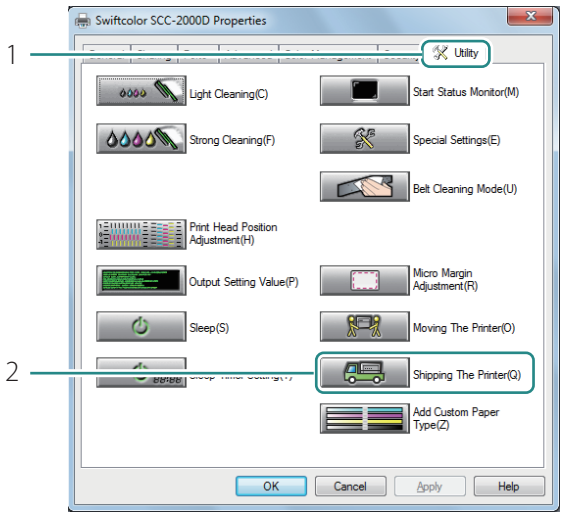
IMPORTANT

- Administrative privileges over this printer are required to configure settings of this printer.
  If a user without administrative privileges proceeds with configuration of settings, a message "You do not have rights to printer management. Please contact your system administrator." appears.
  For more details, see "About [Utility] sheet setting requiring administrative privileges over this printer (P.40)"
- When printing is in progress or any error has occurred, [Shipping The Printer] cannot be executed.
- [Shipping The Printer] consumes ink. Execute it only when necessary.
- Do not move the printer with the ink tank cover open or with the transport unit drawn out. They could be damaged or a printer failure could result.
- For how to install the printer after movement, refer to the "Setup Guide."

1 Open the properties window of the printer. (P.32)

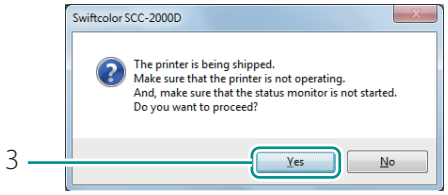
2 Execute [Shipping The Printer].

Remove ink from the ink flow passage so that ink does not leak during transportation.



1. Click the [Utility] tab.
2. Click [Shipping The Printer].

- A confirmation message appears.



3. Click [Yes].

- Execute [Shipping The Printer].
  Do not operate the printer before the specified message appears in step **3**.

IMPORTANT

- During execution of [Shipping The Printer], observe the following precautions:
  - Do not turn off the printer.
  - Do not open/close the ink tank cover and transport unit lever.
  - Do not operate any other component of the printer.

NOTE

- If the message "Maintenance cartridge full" appears, replace the maintenance cartridge with a new one, and then click [Retry]. For how to replace the maintenance cartridge, see "Replacing Maintenance Cartridge (P.98)"

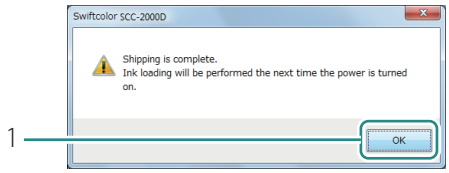
3 When the following message appears, remove ink tanks.

1. Open the ink tank cover.
2. Remove ink tanks of all colors.
   - Install the orange protective caps to the ink tanks.
3. Close the ink tank cover.
   - Closing the ink tank cover will start bleeding ink automatically.
     Do not operate the printer before the specified message appears in step **4**.

IMPORTANT

- During execution of [Shipping The Printer], observe the following precautions:
  - Do not turn off the printer.
  - Do not open/close the ink tank cover and transport unit lever.
  - Do not operate any other component of the printer.
- Ship the removed ink tank with orange protective cap attached.

4 Check that [Shipping The Printer] is completed.



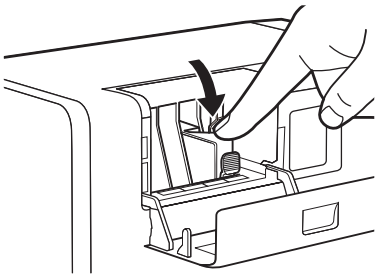
1. Click [OK].

5 Turn off the printer. (P.8)

IMPORTANT

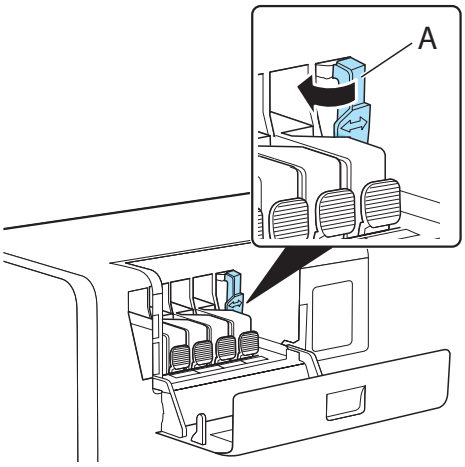
- When the Power lamp is lit or blinking, do not remove the power plug from the outlet. A printer failure could result.

6 Install the orange protectors in the printer.



1. Open the ink tank cover.
2. Press on the top of the protector until the protector clicks.

- Install other protectors in the same manner.



3. Move the lock lever (A) in the direction of the arrow.

4. Close the ink tank cover.

7 Disconnect the power cord and interface cable.

8 Put the printer in the plastic bag.

Put the printer in the original plastic bag.

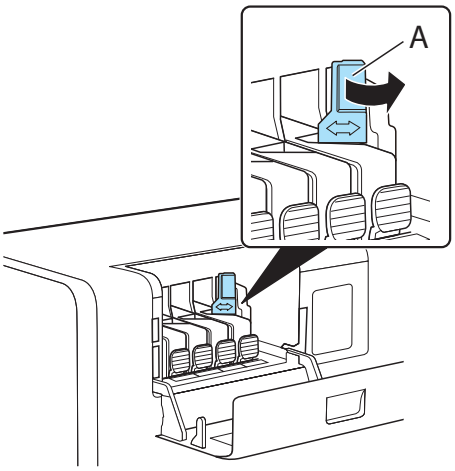
9 Put the printer in the original shipping box with the bottom down, and fill the vacant spaces with a sufficient number of protectors.

IMPORTANT

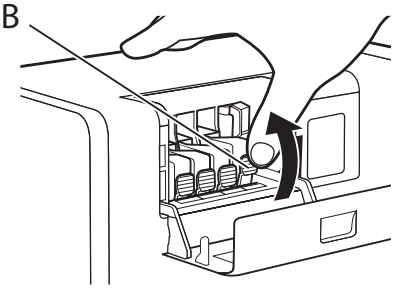
- When transporting the printer, observe the following precautions:
  - To prevent the printer from being damaged or getting out of order, pack it using the original shipping box and protectors.
    If the original box, plastic bag, and protectors are not available, pack the printer with a tough box and protective materials.
  - After packing the printer, do not incline the box or place the box with its upper or side surface down. Ink could leak during transportation.
  - When transporting the printer, ask the carrier to affix "PRECISION EQUIPMENT" and "THIS SIDE UP" labels with the bottom of the box down.

10 After installing the printer at the destination, connect the power cord and interface cable.

11 Remove all orange protectors.



1. Open the ink tank cover.
2. Move the lock lever (A) in the direction of the arrow.



3. Remove the protectors.

- Press and raise the lock knob (B) to remove the protector.

12 Install the ink tank in the printer. (P.94)

After installing the ink tank, close the ink tank cover.

13 Turn on the printer. (P.7)

Turning on the printer will start ink filling automatically.

IMPORTANT

- When the Status lamp (green) is blinking, ink filling is in progress. Before the Status lamp (green) lights up, observe the following precautions:
  - Do not turn off the printer.
  - Do not open/close the ink tank cover and transport unit lever.
  - Do not operate any other component of the printer.

Uninstall Printer Driver

The process for uninstalling the printer driver installed to the computer will be explained.
Before uninstalling, exit all running software applications and confirm that all print jobs are completed.

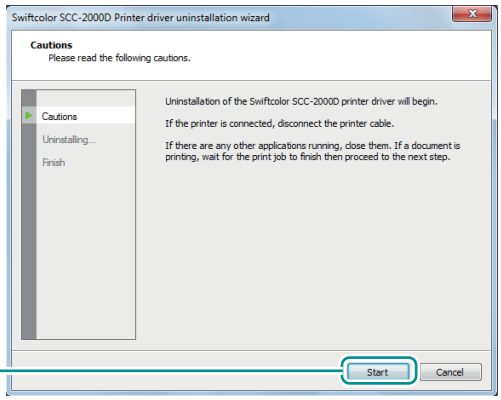
1 Remove all interface cables.

After confirming that printing is completed, remove all interface cables after turning off the printer's power.

2 Select [Swiftcolor SCC-2000D] -> [Swiftcolor SCC-2000D Printer Driver Uninstall] from [All Programs] under the [Start] menu.

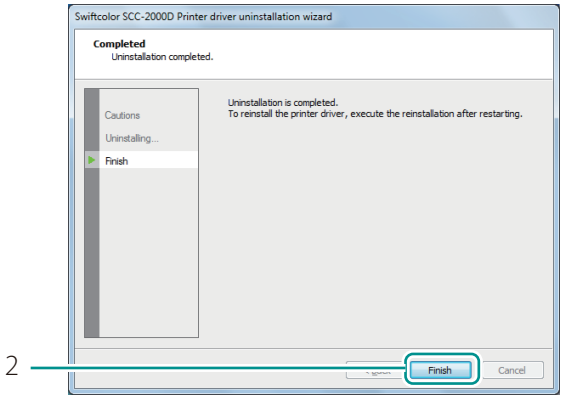
- For Windows 8:
  Click or tap the down arrow on the bottom left of the start screen (displayed when you move the mouse cursor on the screen) and choose [Swiftcolor SCC-2000D Printer Driver Uninstall] from the all applications screen (Apps view).

3 Run the uninstall.



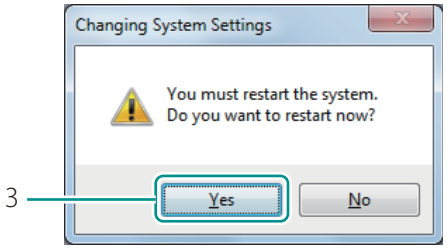
1. Click [Start].

- When the [User Account Control] dialog box appears, click [Yes].



2. Click [Finish].

- The [Changing System Settings] dialog box will appear.

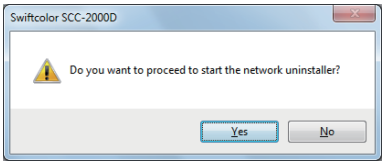


3. Click [Yes].

- Restart Windows.

NOTE

- If [No] is selected, always restart your computer before installing the printer driver again.
- If the network utility is installed, a screen such as the following will be displayed. To continue uninstalling, follow the instructions on the screen.



About Network Utility

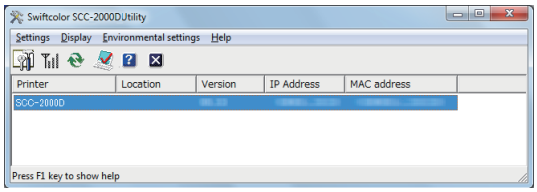
The network utility is software to configure the printer's network environment.
The network administrator needs to configure the network utility.

Starting the Network Utility

1 Select [Utilities] -> [Swiftcolor SCC-2000D Network IF] from [All Programs] under the [Start] menu.

- Windows 8:
  Click or tap the down arrow on the bottom left of the start screen (displayed when you move the mouse cursor on the screen) and select [Swiftcolor SCC-2000D Network IF] from the all applications screen (Apps view).

The network utility will be launched.
After searching for a printer the main screen will be displayed.



NOTE

- **Searching for the Printer**
  When the network utility is launched, it will automatically search for a printer but if the printer is not detected perform a search for the printer.
  From the main screen's [View] menu, click [Find Again] (or click on the toolbar).
- **Displaying Help**
  Displaying help will present an explanation of various network utility features and allow you to confirm configuration methods.
  From the main screen's [Help] menu, click [Help] (or click on the toolbar).
- **Displaying Version Information**
  From the main screen's [Help] menu, click [Version Information].

- **Exiting the network utility**
  From the main screen's [Settings] menu, click [Exit Utility] (or click on the toolbar).

Configuring the Network

How to configure the network for this printer is explained below.

IMPORTANT

- **Regarding the Network Configuration Password**
  Changing the printer's network configuration requires a password. The default password is "admin".
  To prevent people other than the network administrator from configuration, it is recommended to change the default password from the time of purchase (P.184)

Configure the Installation Site

Configure the installation site for this printer.

1 Select the printer to configure from the main screen.

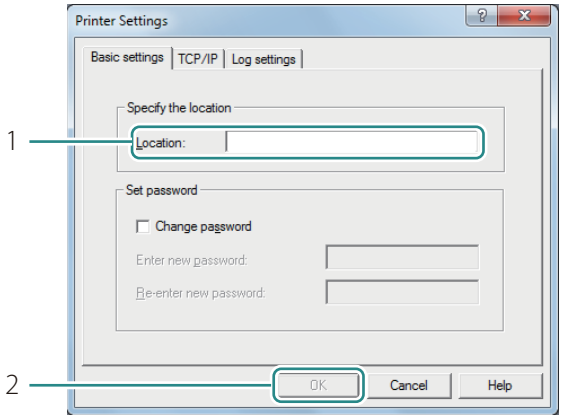
2 From the [Settings] menu, click [Printer settings].

Or click on the toolbar.

3 Enter Password.

1. Enter the password.
2. Click [OK].

4 Configure the Installation Site.



1. Input the printer's installation site into [Location].

- When changing the configuration, limit it to 15 characters (single byte alphanumeric characters and some symbols. For details, refer to help.).

2. Click [OK].

■ Changing the Password

Change the password necessary for changing this printer's network settings.
It is recommended to change the default password from the time of purchase so that only the network administrator can change the settings.

1 Select the printer to configure from the main screen.

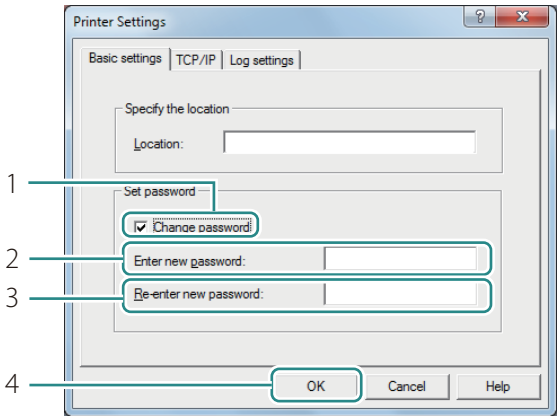
2 From the [Settings] menu, click [Printer settings].

Or click on the toolbar.

3 Enter Password.

1. Enter the password.
   - The default password is "admin".
2. Click [OK].

4 Configure the New Password.



1. Check the option [Change password].
2. Enter the new password.
   - Enter a password that is up to eight characters (single byte alphanumeric characters).
3. To confirm enter the same new password again.
4. Click [OK].

■ Setting IP Address

Set this printer's IP address.

1 Select the printer to set an IP address from the main screen.

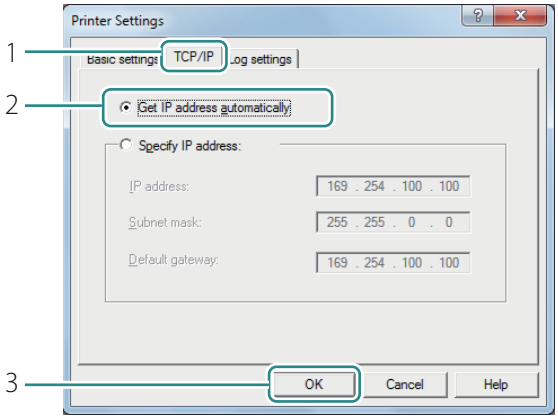
2 From the [Settings] menu, click [Printer settings].

Or click on the toolbar.

3 Enter Password.

1. Enter the password.
2. Click [OK].

4 Set the IP address.



1. Click on the [TCP/IP] tab.
2. Select one of the followings.

   [Get IP address automatically]
   If there is a DHCP server on the network, the printer's IP address will be acquired automatically.

   [Specify IP Address]
   Manually set the printer's IP address. The IP address, subnet mask, and default gateway show the currently configured information. To change it, re-enter.

3. Click [OK].

Saving the Printer's Log File

Save the log files (*.log) of this printer and network communication.
Follow the steps below when instructed by dealer. Normally, this is unnecessary.

1 Select the printer to configure from the main screen.

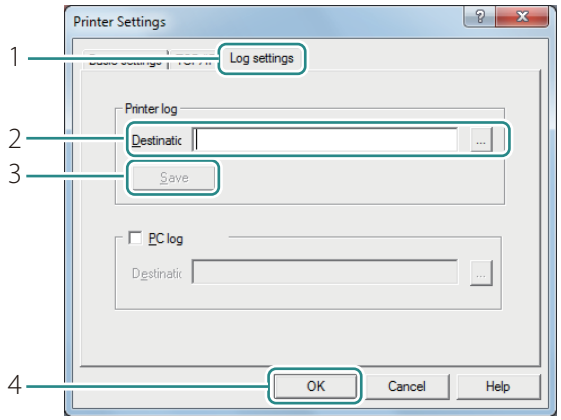
2 From the [Settings] menu, click on [Printer settings].

Or click on the toolbar.

3 Enter Password.

1. Enter the password.
2. Click [OK].

4 Configure the location for saving the log file.



1. Click on the [Log Settings] tab.
2. Designate the destination to save.
3. Click [Save].
4. Click [OK].

■ Saving the Computer's Log File

Save the log file (*.log) of network communication between this printer and the computer.
Follow the steps below when instructed by dealer. Normally, this is unnecessary.

1 Select the printer to configure from the main screen.

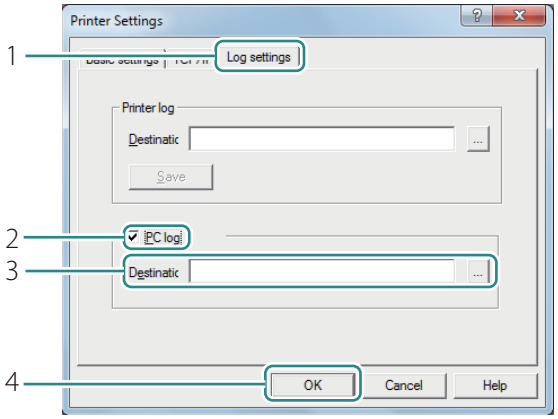
2 From the [Settings] menu, click on [Printer settings].

Or click on the toolbar.

3 Enter Password.

1. Enter the password.
2. Click [OK].

4 Configure the location for saving the log file.



1. Click on the [Log Settings] tab.
2. Check the option [Computer Log].
3. Designate the destination to save.
4. Click [OK].

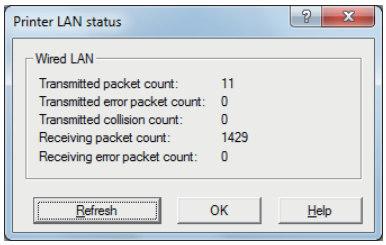
Confirming Communication Status

Confirm this printer's network status.

1 Select the printer to configure from the main screen.

2 From the [Settings] menu, click [Printer LAN Status].

Or click on the toolbar.



- The LAN's communication status will be displayed.
- To update to the latest information, click [Refresh].

3 Click [OK] after confirming.

Configuring Access Restrictions for the Printer

Configure so that only computers with the designated MAC address can connect to this printer.

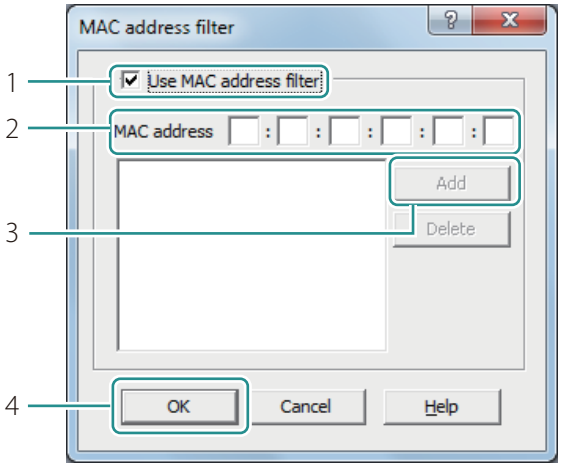
1 Select the printer to configure from the main screen.

2 From the [Settings] menu, click [MAC address filter].

3 Enter Password.

1. Enter the password.
2. Click [OK].

4 Configure the MAC address filter.



1. Check the option [Use MAC address filter].
2. Enter MAC address.
3. Click [Add].
   - The MAC address will be added. A maximum of 32 addresses can be configured.
   - To remove a MAC addresses that was added: Select a MAC address to delete from the list and click [Delete].
4. Click [OK].

IMPORTANT

- When the MAC address set had been wrong, the computer will not be able to connect to this printer. If you are unable to cancel the setting, contact the administrator of the printer.

Initializing the Printer's Network Settings

All the network settings of this printer will be initialized.

1 Select the printer to configure from the main screen.

2 From the [Setting] menu, click [Restore the factory default value].

3 Enter Password.

1. Enter the password.
2. Click [OK].

- A confirmation message will be displayed.

4 Click [OK].

IMPORTANT

- After executing [Restore Factory Default Settings], the password necessary for configuring the printer's network will also be initialized. The default password is "admin".

Configuring Network Using the Network Utility

The following explains how to configure the network using the network utility such as setting this printer's search range and the network's time-out value

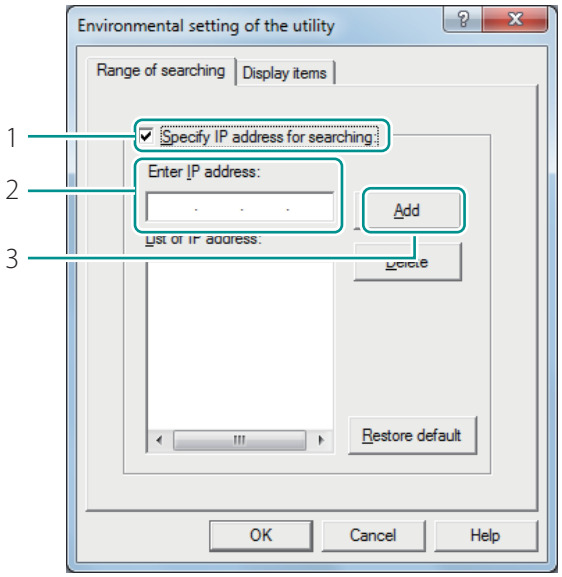
■ Setting the Range for Printer to be searched for

When searching for this printer, the IP address to be searched for can be specified.

1 From the [Environmetal settings] menu, click [Utility environmetal settings].

Or click on the toolbar.

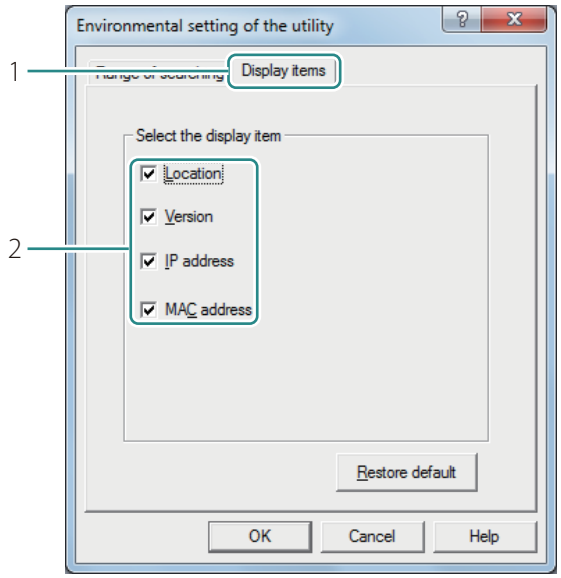
2 Specify the IP address to search for.



1. Check the option [Specify IP Address to Search].
2. Enter the IP address.
3. Click [Add].

- The IP address will be added. Up to 16 IP addresses can be specified.
- To remove an added IP addresses:
  Select from the list and click [Delete].
- Clicking [Restore default] will restore the content of the [Search Range] sheet to its defaults.

3 Configure the items displayed when the printer is detected.



1. Click the [Display Items] tab.

2. Check an item (such as Installation Location) check box to display.

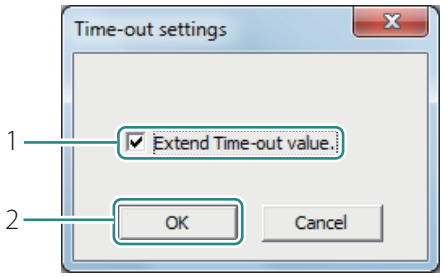
- Clicking [Restore default] will restore the content of the [Display Items] sheet to its defaults.

4 Click [OK].

■ Extending Network Time-Out Value

1 From the [Environmetal settings] menu, click [Time-out setting].

2 Configure Extension of the Time-Out Value.



1. Check the [Extend Time-Out value] check box.
2. Click [OK].

Specifications

Printer

Product name	SCC-2000D
Printing method	Inkjet
Print colors	Full color
Output resolution	1200dpi x 1200dpi
Printing speed	Business Card: 50 sheets/min
Transport speed	Auto mode: 160, 120, 80 mm/sec (Speed changes automatically) Manual mode: 160, 120, 80 mm/sec
Printable area	57.4 mm (W) x 171.4 mm (L)
Print margin (in relation to paper transport direction)	Top/Bottom: 1.5 mm, Left/Right: 2.0 mm (Micro margin printing: Top/Bottom: 0.3 mm, Left/Right: 0.3 mm[*1])
Printhead	2766 nozzles for each color (effective nozzles)
Ink used	Water based dye ink Yellow (Y), Magenta (M), Cyan (C), and Black (Bk)
Interface	Hi-Speed USB, 1000BASE-T/100BASE-TX/10BASE-T
Operating noise	Approx. 58 dB (A) or less
Installation environment	Temperature: 15 degrees Celsius - 30 degrees Celsius Humidity: 10% - 80% (no condensation)
Power supply (AC adapter used)	AC100-240V, 50/60Hz
Power consumption	Maximum power consumption: Approx. 150 W Sleep mode: Approx. 5.6 W or less
Dimensions (W x D x H)	391 mm x 180 mm x 279 mm
Weight	Approx. 8 kg (without ink tank)

[*1] Right margin by trimming ajustment of user.

- This printer employs a dye ink system. The colors in printouts may deteriorate due to chemical reactions caused by exposure to normal infrared light, nitrous or sulfuric fumes and other oxidizing chemicals in the air.
- To conserve the consumption of printing paper, the printer can print on the reverse side. To print on both sides of paper, use paper suited for duplex printing.

Paper

Paper	Dedicated paper (matte coated paper, glossy paper, plastic card)
Paper size	51.0 mm - 58.0 mm (W) 81.0 mm - 91.0 mm, 157.0 mm - 172.0 mm (L)
Paper thickness	0.20 mm - 0.76 mm
Deck capacity	Business Card (thickness 0.245 mm): 250 sheets Extra thick paper(thickness 0.76 mm)/Plastic Card: 80 sheets Card (Langth 157 mm or more, thickness 0.245 mm): 50 sheets

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