

# CW-C4000 Series Technical Reference Guide

#### **Product Overview**

Describes features for the product.

#### Setup

Describes setup and installation of the product.

#### **Handling**

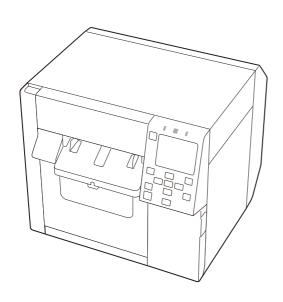
Describes how to handle the product.

# Information for Application Development

Describes how to control the printer and necessary information when you develop applications.

#### **Appendix**

Describes specifications of the product.



#### **Cautions**

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## **Before Use**

This chapter describes information you should know before using the product.

#### **Manuals for This Product**

#### **Paper manual**

#### **Start Here**



Guides you through basic setup steps from unpacking to loading paper.

## Manual viewable with PC

#### User's Guide



Describes details about the functions and operating procedures of the product, maintenance information, and troubleshooting. Download this guide from the web site or, depending on the country or region, this is included in the supplied CD.

# Manual viewable with PC

# CW-C4000 Series Technical Reference Guide (This manual)



Provides information necessary for installing the product, performing daily tasks, and developing a system using the product.

# Manual viewable with PC

#### **Online Video Manual**



Provides videos that show you operating procedures and troubleshooting information. Access the videos from the following URL.

<a href="https://www.epson-biz.com/?prd=cw-c4k&inf=video">https://www.epson-biz.com/?prd=cw-c4k&inf=video</a>

The contents of videos are subject to change without notice.

#### **Downloading the Latest Version**

The latest versions of the printer driver, utilities, and manuals can be downloaded from the following URLs. For customers in North America, go to the following web site:

www.epson.com/support/

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www.epson-biz.com/

## Symbols Used in This Guide

The following symbols are used in this guide to indicate important information.

#### **Symbols for Safety**

The symbols shown below are used in this manual in order to ensure safety and proper use of this product and to prevent danger to you and other persons, and property damage. Be sure that you completely understand their meanings before reading this manual.



Handling the product improperly by ignoring this symbol can lead to death or serious injury.



Handling the product improperly by ignoring this symbol can lead to injury and property damage.

### **Symbols for General Information**



IMPORTANT

Indicates information with which you must comply when using the product. Mishandling due to ignoring this information may cause the product to fail or malfunction.



Indicates supplementary explanations and information you should know.

## **Safety Precautions**

To ensure safe use of the product, be sure to read this manual and the other instruction manuals supplied with the product before use. Store this manual in a safe place so that you can resolve any unclear points regarding the product at any time.

## Cautions on Installation



Do not cover the product with a cloth or install it in a poorly-ventilated location. Furthermore, ensure there is the installation space specified in the manual.



- Do not install/store the product in an unstable location or in a location subject to vibration from other devices. The product may fall or collapse, causing breakage and possible injury.
- Do not install the product in a location exposed to oily smoke or dust, or in a humid location. Doing so may cause electric shock or fire.
- When lifting the product, perform the work with the correct posture. Lifting the product with an inappropriate posture may cause injury.

#### **Cautions on Handling**



- Do not use the product in a location with volatile substances such as alcohol or paint thinner present, or near fire. Doing so may cause electric shock or fire.
- Shut down the product immediately if it produces smoke, a strange odor, or unusual noise. If you go on using the product, it may result in electric shock or fire. If an abnormality occurs, immediately turn off the power and remove the plug from the outlet, and then contact qualified service personnel for advice.
- Shut down the product immediately if a foreign object or water or other liquid gets inside the product. If you go on using the product, it may result in electric shock or fire. Immediately turn off the power and remove the plug from the outlet, and then contact qualified service personnel for advice.
- Do not disassemble the areas other than those mentioned in this manual.
- Never attempt to repair the product yourself as doing so is dangerous.
- Do not use the product in a location where inflammable gas, explosive gas, etc. is present in the atmosphere. Furthermore, do not use aerosol sprayers containing flammable gas inside or around the product. Doing so may cause fire.
- Do not connect cables in ways other than those mentioned in this manual. Doing so may cause fire. It may also damage the other connected devices.
- Do not touch the areas inside the product other than those mentioned in this manual. Doing so may cause electric shock or burns.
- Do not insert metal or flammable materials, or allow them to fall into the product. Doing so may cause electric shock or fire.
- If the screen of the printer is damaged, handle the liquid crystal inside it very carefully. Should any
  of the following situations arise, take emergency measures.
  - \* When any part gets onto your skin, wipe off the deposit, and wash the area properly with soap and water.
  - \* When any part gets into your eyes, flush them with clean water for at least 15 minutes, and thereafter, consult with a doctor.
  - \* When a part gets into your mouth, immediately consult with a doctor.



- Do not allow anyone to stand or place heavy objects on top of the product. In particular, be careful in the case of a household with children. The product may fall or collapse, causing breakage and possible injury.
- Install the cables and optional products in the proper direction according to the proper procedures. If they are installed improperly, it may result in fire or injury. Follow the instructions in this manual to install them properly.
- Before moving the product, shut down and unplug the product, and make sure that all the cables are disconnected. Failure to do so may damage a cable, causing electric shock or fire.
- Do not subject the product to vibration or shock while the power is on. Doing so may cause printing malfunction.
- Do not store or transport the product while it is tilted, standing, or upside down. Doing so may cause the ink to leak.
- Store the cutter in a place out of reach of children. There is a risk of injury from the cutter blade. When replacing the cutter, handle it with care.

### **Cautions on Power Supply**



- Be sure to use the specified AC adapter (AC ADAPTER,K1 (Model: M248B)) only. In addition, do not use the specified adapter with another device. Otherwise electric shock or fire may occur.
- Observe the following points when handling the AC adapter. Otherwise electric shock or fire may occur.
  - \* Do not use in a location where rain or water will get on the AC adapter.
  - \* Do not suspend the product by the power cord.
  - \* Do not allow a clip or other metal object to touch the connectors.
  - \* Do not cover with bedding.
- Do not allow dust or other foreign material to adhere to the power plug. Doing so may cause electric shock or fire.
- Insert the power plug securely all the way into the outlet. Otherwise electric shock or fire may
  occur.
- Do not use a power cord other than that supplied with the product. In addition, do not use the supplied power cord with another device. Doing so may cause electric shock or fire.
- Do not use a damaged power cord. Doing so may cause electric shock or fire. Contact qualified service personnel for advice if the power cord is damaged. Furthermore, observe the following points so as not to damage the power cord.
  - \* Do not modify the power cord.
  - \* Do not place heavy objects on the power cord.
  - \* Do not forcibly bend, twist, or pull the power cord.
  - \* Do not lay the power cord near a heating appliance.
- Do not insert or remove the power plug with a wet hand. Doing so may cause electric shock.
- Do not connect many power cords to one outlet. Doing so may cause fire. Supply power directly from a power outlet.
- Regularly disconnect the power plug from the outlet and clean the base of the prongs and between the prongs. Leaving the power plug connected to the outlet for a long period of time may cause dust to accumulate on the base of the power plug prongs, resulting in a short and fire.
- Hold the plug and do not pull the cord when disconnecting the power plug from the outlet. Pulling the cord may damage the cord or deform the plug, causing electric shock or fire.
- Do not remove and insert the power plug from/to the outlet while the printer is powered on. Doing so may cause electric shock.



To ensure safety, unplug the product before leaving it unused for an extended period.

#### Cautions on Ink Cartridges



- The ink cartridges that can be used differ depending on the model number of the product. Use ink cartridges suitable for the model number of your printer. ("Ink Cartridges" on page 327)
- Shake new ink cartridges well before installing them.
- Do not touch the IC chip on an ink cartridge. Doing so may result in normal operation and printing becoming no longer possible.
- The product uses ink cartridges equipped with IC chips to manage the amount of ink used and
  other information so ink cartridges are usable even if they are removed and reinstalled. However,
  if an ink cartridge with not much ink remaining is removed and reinstalled, it may not be usable.
   Some ink is consumed each time cartridges are installed because the product automatically
  checks their reliability.
- When replacing the black ink cartridge, make sure to replace with a cartridge of the same type of black ink. The printer does not work if you install a cartridge of different type of black ink.
- Install ink cartridges of all colors. Printing is not possible if even only one ink cartridge is missing.
- Since ink cartridges are designed to stop the operation before ink runs out completely to maintain the quality of the print head, some ink remains in the used ink cartridges.
- All the ink colors are consumed also for the maintenance operations when an ink cartridge is replaced and for print head cleaning.
- Do not turn off the power or open the ink cartridge cover during ink charging (while the (power) LED lamp is flashing). Opening the cover may cause the ink to be recharged, resulting in more ink being consumed. Also, it may result in normal printing becoming no longer possible.
- Even for monochrome printing, all the ink colors are used in an operation designed to maintain the printing and print head quality.
- Do not disassemble an ink cartridge. Doing so may cause ink to get into eyes or onto skin.
- Do not disassemble or modify an ink cartridge. Doing so may cause printing malfunction.
- Use of old ink cartridges may result in reduced print quality. Use ink cartridges up within six months after opening the packages. The usage period for ink cartridges is printed on the packaging of the individual ink cartridges.
- If ink contacts your skin, eyes, or mouth, take the following actions.
  - \* When ink gets onto your skin, immediately wash the area with soap and water.
  - \* When ink gets into your eyes, immediately flush them with water. Leaving the ink as is may result in bloodshot eyes or mild inflammation. If something is wrong, immediately consult with a doctor.
  - \* When ink gets into your mouth, immediately spit it out and consult with a doctor.
- There may be some ink around the ink supply port on a removed ink cartridge. Take care so that it does not stain the desk or other surface.
- Do not open an ink cartridge package until you are ready to install the ink cartridge in the product.
- Do not shake an ink cartridge too hard. The ink cartridge may leak if you shake it around too much or push the sides strongly.
- Do not allow foreign objects to fall into the cartridge installation section.

  Doing so may result in normal printing becoming no longer possible. Remove any object that falls into the installation section, taking care not to damage the section.
- When ink is charged the first time (right after purchase), ink is consumed for filling the print head
  nozzles (ink discharge holes) to get ready for printing. Therefore, the number of the sheets that
  can be printed may be fewer than for cartridges installed later.
- When the printer is powered off with the (1) (power) button, the print head is automatically capped to prevent the ink from drying. When you will not use the printer after installing the ink cartridges, be sure to turn the power off with the (1) (power) button. Do not pull out the power plug or turn off the breaker while the power is on.



- Printing on water-repellent paper such as art paper, which is slow-drying, may cause print stains. Also, if you print on glossy paper, fingerprints may get on the paper or ink may adhere to your fingers when you touch the print surface. Select and use paper that will not cause print stains.
- Store the ink cartridges in a place out of reach of children.
- Epson recommends storing ink cartridges in a cool and dark place.
- If you wish to use ink cartridges that have been stored in a cold place for a long period of time, leave them for at least 3 hours in a place that is at room temperature before use.
- Do not remove the ink cartridges from the product when storing or transporting the product.

#### **Cautions on the Maintenance Box**



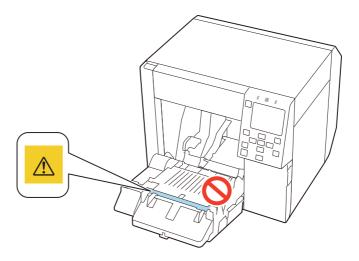
- Store in a place out of reach of children. Do not drink any adhered ink.
- Do not disassemble or modify the maintenance box. Doing so may cause ink to get into eyes or onto skin.
- Do not touch the IC chip on the maintenance box.
- If a maintenance box that can still be used has been removed and left detached for a long period
  of time, do not reuse it.
- Do not peel off the film from the top surface of the maintenance box.
- If ink contacts your skin, eyes, or mouth, take the following actions.
  - \* When ink gets onto your skin, immediately wash the area with soap and water.
  - \* When ink gets into your eyes, immediately flush them with water. Leaving the ink as is may result in bloodshot eyes or mild inflammation. If something is wrong, immediately consult with a doctor.
  - \* When ink gets into your mouth, immediately spit it out and consult with a doctor.
- Do not shake a used maintenance box too hard. The ink may leak from the maintenance box if you swing or shake it too hard.
- Avoid storing the maintenance box under high temperatures or in a frozen state.
- Keep it away from direct sunlight.

## **Caution Label**

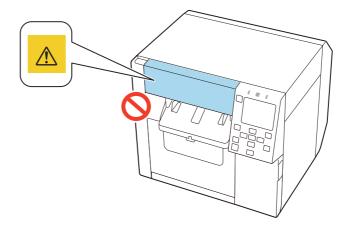
The labels affixed to the product indicate the following cautions.



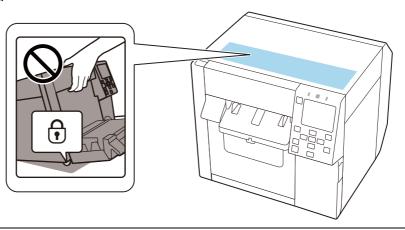
• Do not touch the blade of the auto cutter with a hand. Doing so may cause injury.



• Do not touch the movable blade of the auto cutter with a hand. Doing so may cause injury.



• To prevent fingers from being trapped, the lock mechanism is activated to stop the cover closing if the unit is raised up from the installation surface. When using the product, install it on a level surface.



## Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc.; or functional/precision devices etc., you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. This product is not intended for use in applications requiring an extremely high level of reliability and safety, such as in aerospace instruments, main communication equipment, nuclear power control equipment, or medical equipment, etc. Please make your own judgment on this product's suitability after a full evaluation.

## **About This Manual**

#### Aim of the Manual

This manual is intended to provide information required for developing, designing, and installing a system, and for developing and designing printer applications for developers.

#### **Manual Content**

This manual consists of the following chapters.

Chapter 1 Product Overview

Chapter 2 Setup

Chapter 3 Handling

Chapter 4 Information for Application Development

Appendix Appendix

#### Screenshots

Unless otherwise noted, Windows 10 screenshots are used in this manual. Depending on the printer model and OS version that you use, the screenshots may differ from actual Windows screens.

Depending on version of the printer driver and utility you are using, screens shown in this manual may slightly differ from actual screens.

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# **Product Overview**

This chapter describes features of the product.

## **About Models of this Product**

#### Gloss Black Ink/Matte Black Ink

You can select which type of black ink to use from gloss black (BK) and matte black (MK). The printer prompts you to select it when you turn on the printer for the first time.

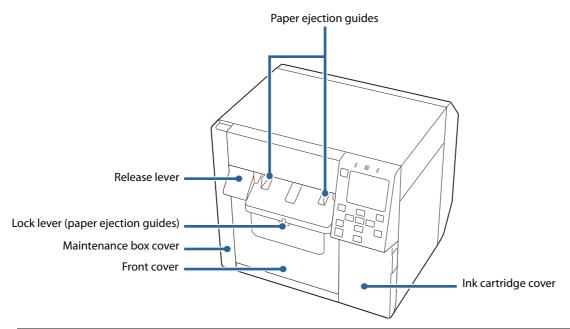


You cannot change the black ink type once you select the black ink type and let the printer charge the ink.

## **Part Names and Functions**

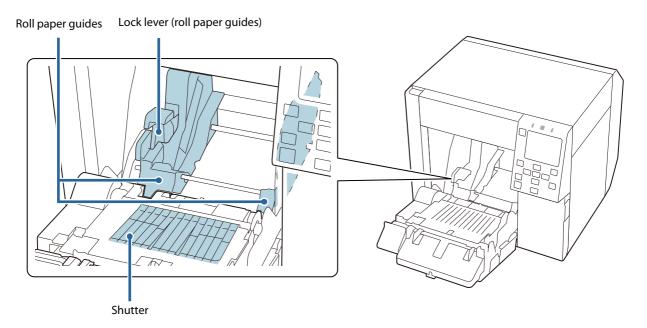
This section describes the main operation parts.

## Front



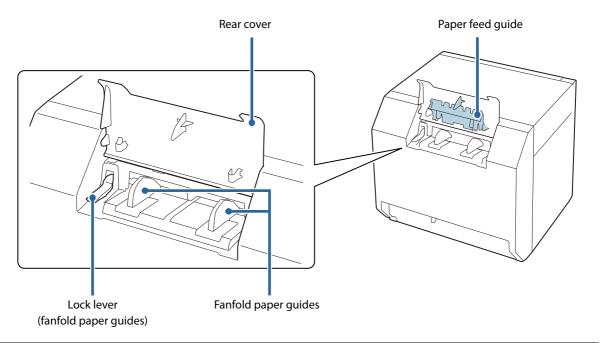
Name	Description
Release lever	Pull this lever towards you to open the front cover.
Lock lever (paper ejection guides)	Press down this lever to enable adjustment of the paper ejection guides. Pull up this lever until it clicks into place to lock the paper ejection guides.
Maintenance box cover	Open this cover to install/replace the maintenance box.  ("Replacing the Maintenance Box" on page 46)
Front cover	Open this cover to load or replace paper.
Ink cartridge cover	Open this cover to install/replace the ink cartridge.  ("Replacing the Ink Cartridges" on page 43)
Paper ejection guides	These guides are for preventing the paper from getting out of position when ejected.  Adjust them to match the paper width.

## Inside



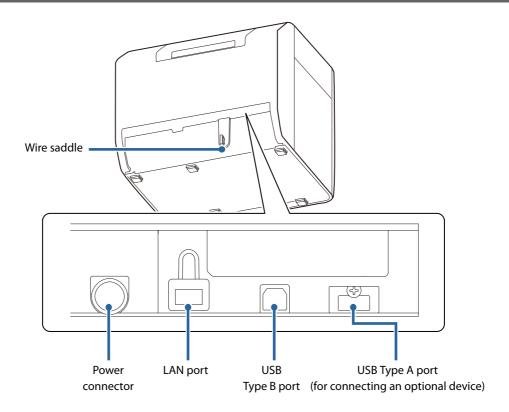
Name	Description
Lock lever (roll paper guides)	Pull up this lever to enable adjustment of the roll paper guides.  Push down this lever to lock the roll paper guides.
Roll paper guides	These guides are for fixing the roll paper in place. Adjust them to match the paper width.
Shutter	Adjust this to match the paper width. ("Adjusting the Shutters" on page 65)

## Rear



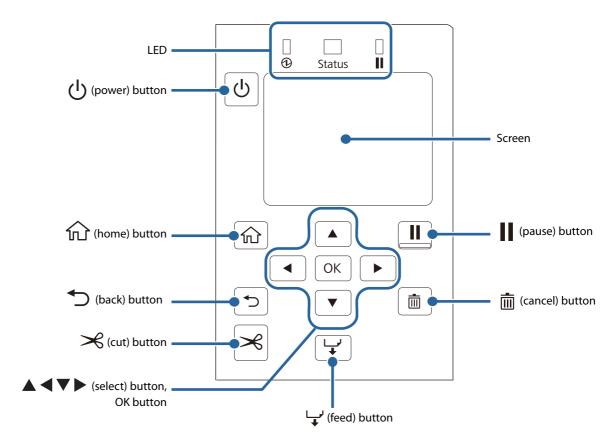
Name	Description
Lock lever (fanfold paper guides)	Pull up this lever to enable adjustment of the fanfold paper guides. Pull down this lever to lock the fanfold paper guides.
Fanfold paper guides	These guides are for preventing the paper from getting out of position when fed into the printer. Adjust them to match the paper width.
Paper feed guide	Attach this guide inside the front cover when using fanfold paper.
Rear cover	Open this cover to load or replace the fanfold paper.  ("Loading Fanfold Paper" on page 60)

## Connectors



Name	Description
Wire saddle	Pass the USB cable through this saddle to prevent disconnection of the cable.
Power connector	Connect the power cable.
LAN port	Connect a LAN cable.
USB Type B port	Connect a USB Type B cable.
USB Type A port (for connecting an optional device)	Connect the optional Wireless LAN Unit.

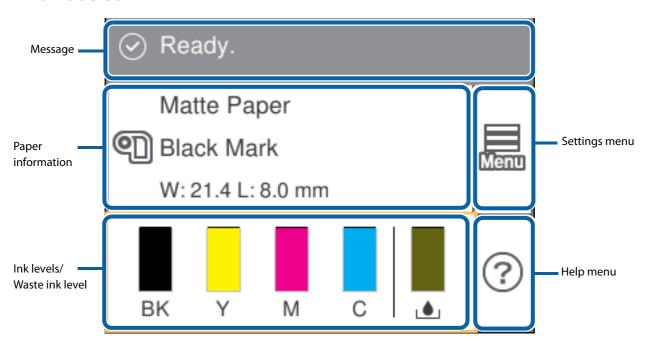
## **Operation Panel**



Name	Description
LED	<ul> <li>The status of the printer can be checked from the flashing of the LEDs.</li> <li>(power) LED Stays on while the printer is on. Flashes during printing or charging ink.</li> <li>Status LED Stays on or flashes while an error or problem is occurring.</li> <li>(Pause) LED Stays on or flashes while the printer is paused.</li> </ul>
() (power) button	Turns on/off the printer.
(home) button	Displays the Home screen.
(back) button	Use to return to the previous screen.
(cut) button	Use to cut paper.
▲ ◀ ▼ ► (select) button, OK button	Use the <b>A V</b> keys to select a menu item, and then press the OK button to activate the selected menu or setting.
(feed) button	Press this briefly to feed paper by one page. Hold down to feed paper continuously.
(cancel) button	Press this to cancel a print job.

Name	Description
(pause) button	If this button is pressed during printing, printing is stopped after printing of the current page is finished. Press this button again to resume printing.  If this button is pressed while the printer is idling, the printer is paused. Press this button again to return the printer to its idling state.
Screen	Status of the printer, menus, and error messages are displayed.

#### **Home Screen**



Name	Description
Message	A printer status or an error message is displayed.
	("A message is displayed on the operation panel." on page 263)
Paper information	The current paper settings are displayed.
	Touch this area to directly access the [Paper Settings] menus.
Ink levels/Waste ink level	The length of the bars indicate how much ink of each color is remaining, and how much
	space in the maintenance box is remaining. The shorter the bars are, the lower the ink levels and remaining space are.
	A [!] mark will appear when the ink cartridge or the maintenance box needs to be replaced soon.
	A [x] mark will appear when the ink cartridge or the maintenance box needs to be replaced.
	Matte black ink is displayed as "MK".
Help menu button	You can see troubleshooting information and basic operating procedures.
Settings button	Allows you to access the maintenance menus, various printer settings, and network settings. Throughout this manual, touching this button is indicated as [Menu]. All the
	settings available from this button are listed in the link below.
	("Operation Panel Settings" on page 208)

## **Auto Nozzle Check System**

This printer is equipped with the automatic nozzle check function.

Depending on required print quality, you can On or Off the nozzle check function, set how often to run the check, threshold for the check, and whether to run a cleaning after the check. In addition to that, if nozzle clogging is not cleared by the cleaning, the printer carries out supplemental printing using nozzles adjacent to the clogged nozzles.

By using this function, you can prevent sharp decline in the print quality and barcode quality.

#### **Auto Nozzle Check Settings**

The auto nozzle check is run at the following times.

- When the printer is turned on
- When the front cover is closed after a paper jam
- Just before running a regularly scheduled cleaning ("Periodic Auto Cleaning" on page 28)

If "Nozzle check settings" is set to "On", auto nozzle check is run at the time of the following cases.

• When the number of printouts has reached the number specified as the interval of the nozzle check.

If "Cleaning After Nozzle Check" has been set to "On", and the result of nozzle check exceeds the specified threshold, a head cleaning is run automatically to clear the nozzle clogging. After the cleaning, the nozzle check is run again. If the result of the check still exceeds the threshold, auto cleaning is also run again.



- This function does not completely prevent nozzle clogging. The printer cannot perfectly detect missing dots and skewed ink drops on printouts.
- To prevent misreading of characters that are partially missing due to nozzle clogging, it is recommended to use the printer with its default nozzle check settings. For information about the default settings, see [Maintenance] [Nozzle check settings] in "Operation Panel Settings" on page 208.
- If extremely high reliability is required for printouts, it is recommended to use fonts whose height is 3-dots or more.



- The cleaning cleans the entire print head. It does not clean the print head partially for cleaning only the clogged nozzles.
- A small amount of ink is consumed for the auto nozzle check system.
- The print head cleaning is run automatically after the nozzle check when set to do so. Ink is consumed for the head cleaning.

## Nozzle Check Settings (Auto nozzle check during printing)

You can turn on or off the auto nozzle check during printing. The factory default is "On".

#### How to Set

Set using the operation panel of the printer, or using PrinterSetting.

#### Nozzle Check Interval (Setting interval between checks)

Specify the number of printouts to let the printer run the nozzle check when reached the number. The printer will stop while running the check.

#### **How to Set**

Set using the operation panel of the printer, or using PrinterSetting.

You can set the number of printouts in the range of 1 to 9999 in units of one sheet.

See "Operation Panel Settings" on page 208 or "PrinterSetting (Windows)" on page 167.



- The count of printouts is reset when the specified number is reached and nozzle check is performed, or when the printer is turned off.
- The factory default is "100".

#### **Operation At Clogged Nozzle**

You can set the action to be taken after the number of detected clogged nozzles exceeds the set "Threshold of Clogged Nozzles".

#### How to Set

Set using the operation panel of the printer, or using PrinterSetting.

Notify

After performing the operation set by [Cleaning After Nozzle Check], the printer stops and enters in standby mode (pause). Press the pause button to resume printing.

**Continue Printing** 

After performing the operation set by [Cleaning After Nozzle Check], the printer continues printing without stopping.

See "Operation Panel Settings" on page 208 or "PrinterSetting (Windows)" on page 167.

## **Setting Threshold of Clogged Nozzles**

Specify the threshold of clogged nozzles used when running the auto nozzle check system. If the number of clogged nozzles exceed the threshold, a message is displayed on the printer's screen, and the printer performs the operation set by [Cleaning After Nozzle Check]. If the number of clogged nozzles is below the threshold, you can use the supplemental printing function.

#### **How to Set**

Set using the operation panel of the printer, or using PrinterSetting.

Specify the number in the range of 0 to 16 nozzles.



- The number of nozzles is the total of four color (BK (MK), C, M, Y) nozzles.
- The factory default is "2".

#### **Setting Cleaning After Nozzle Check**

You can set to run an auto head cleaning when the number of detected clogged nozzles exceeds the threshold.

#### **How to Set**

Set using the operation panel of the printer, or using PrinterSetting.

On

When the number of clogged nozzles exceeds the threshold, a message is displayed on the printer's screen and the cleaning is run automatically.

Off

When the number of clogged nozzles exceeds the threshold, a message is displayed on the printer's screen, but the cleaning is not run.

The factory default is "On".

See "Operation Panel Settings" on page 208 or "PrinterSetting (Windows)" on page 167.

#### **Clearing All Nozzle Check Settings**

You can restore the nozzle check settings to the state at the time of purchase (default value).

#### **How to Set**

Set using the operation panel of the printer, or using PrinterSetting.

## Complementing Missing Dots due to Clogged Nozzles (Nozzle Verification Technology)

The "Nozzle Verification Technology" function automatically complements missing dots caused by clogged nozzles with dots generated by nozzles adjacent to the clogged nozzles. The number of nozzles that can be complemented is up to 16 nozzles. However, if the clogged nozzles are located next to each other, the complement function does not work well. If the number of clogged nozzles exceeds 16, complementing 16 nozzles is performed without stopping the printing operation.

You cannot use this function if you have disabled the auto nozzle check function. Enable the "Nozzle check settings" to use this function.



- This function cannot perfectly complement missing dots, so drop in print quality or barcode quality can occur even if this function is used.
- Since the complement is performed according to information of clogged nozzles that has been acquired when starting printing, nozzles that get clogged during printing are not complemented.

#### How to Set

Set using the operation panel of the printer, or using PrinterSetting.

The factory default is "Enable".

## Periodic Auto Cleaning

To maintain the print head in good condition, the printer may run a cleaning automatically. The cleaning takes 3 to 14 minutes, and printing is disabled during the cleaning. To prevent the cleaning from running when you want to print, set the time to start the periodic auto cleaning.

The cleaning will start at the specified time. However, the cleaning is not run if the printer determines that the print head does not need to be cleaned.

Setting the cleaning start time allows you to clean the print head without interrupting printing operation. The default time is "0:00".

#### **Setting Time to Start the Periodic Auto Cleaning**

Set using the operation panel of the printer, or using PrinterSetting.

During the cleaning, printing is disabled. Specify a time when the printer is on but not in use. The time can be set in one-minute increments.

For the setting procedure, see "Operation Panel Settings" on page 208 or "PrinterSetting (Windows)" on page 167.



- The cleaning takes 3 to 14 minutes.
- If you set a time within less than 10 minutes from the current time, the cleaning is run at the set time
   24 hours later.

## **Execution of the Periodic Auto Cleaning**

At the set time, the cleaning is automatically run if the printer is on and it determines that the cleaning is necessary.



- If the printer has been left unused without being powered on for a long time, the cleaning may be run when the printer is turned on.
- In the following cases, the cleaning is not run at the set time. It is run next time the printer is turned on.
  - The printer is not powered on.
  - $\hbox{-} The ink level is too low to run the cleaning, or some ink cartridge (s) needs to be replaced.\\$
  - The remaining amount of space in the maintenance box is too low to run the cleaning, or the box needs to be replaced.

## **Examples of the Time Setting to Avoid Interrupting Printing Operation**

The followings are examples of the cleaning start time setting to reduce the likelihood of unintended cleaning during printing.

#### In the case that the printer is always powered on

Set the time to a time that printing work is not performed, such as midnight.

#### In the case that the printer is powered on and off every day

- Set the time to a time that the printer is off, such as midnight, to let the printer run the cleaning right after it is powered on.
- If printing work is not performed during lunch break, set the time to a time such as 12:00 in order to let the printer run the cleaning during the lunch break.

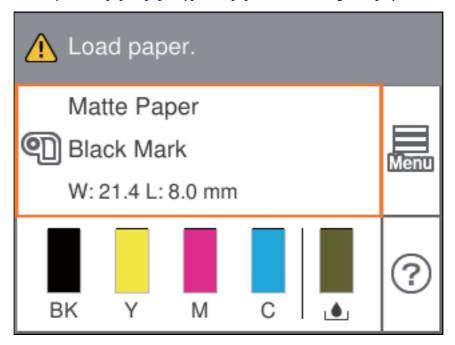
## **Checking the Printer Status**

The status of the printer can be checked from the lighting/flashing of the LEDs, and from the printer screen. Also, by printing the status sheet, you can check the printer settings and condition of the nozzles.

△ "Printing Status Sheet" on page 32

## **Checking the Paper Information**

Information of currently loaded paper; paper type and paper source setting is displayed on the home screen.





Touch this area to directly access the [Paper Settings] menus.

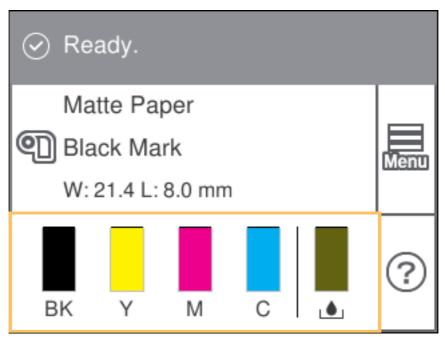
You can also make the paper settings using the printer driver.

☐ "Paper Source and Paper Detection Settings" on page 77

If the settings differ between the operation panel and the printer driver, the settings of the printer driver are applied.

## **Checking the Status of Consumables**

On the home screen of the printer, you can check the following information; the status of the ink cartridges and the maintenance box, paper settings (paper type, detection method, label width/length). ("Home Screen" on page 23)



## **Printing Nozzle Check Patterns**

By printing the nozzle check patterns, you can check the print head nozzles for clogging. To print the check patterns, select the menu as described below.

## **Using the Operation Panel**

[Menu] - [Maintenance] - [Print Head Nozzle Check]

#### **Using the Printer Driver**

Click [Nozzle Check] on the [Printer Utilities] window.

## **Using the WebConfig**

Select [Print Nozzle Check Pattern] on the [Maintenance] window, and then click [Start].

### **Printing Status Sheet**

By printing the status sheet, you can check the firmware version and the current printer settings, such as print mode and media detection settings.

On the operation panel, select the menu in the order shown below to print the report.

[Menu] - [Printer Status/Print] - [Print Status Sheet]



- When printing the status sheet, load paper that is 101.6 mm (4.0 inches) wide or larger. Also, refer to the table below for the length of remaining paper required for printing.
- When printing the status sheet (Network settings), load paper that is 108.0 mm (4.25 inches) wide or larger. The recommended paper length is 196.8 mm (7.8 inches) or more. Also, refer to the table below for the length of remaining paper required for printing.

# The length of remaining paper required for printing the status sheet (from the auto cutting position to the paper end)

	Paper Form Paper Size	Full-page Label/Continuous paper (without gap/black mark detection)	Others (with gap/ black mark detection)
		415 mm (16.4")	
When using included roll paper	Length: 174.8 mm (6.9")  Gap between pages: 3.0 mm (0.12")		474 mm (18.7")
When the maximum length is required	Length: 11.2 mm (0.44")  Gap between pages: 6.0 mm (0.24")		1,544 mm (60.8")

# The length of remaining paper required for printing the status sheet (Network settings) (from the auto cutting position to the paper end)

	Paper Form Paper Size	Full-page Label/Continuous paper (without gap/black mark detection)	Others (with gap/ black mark detection)
		315 mm (12.4")	
When using included roll paper	Length: 174.8 mm (6.9") Gap between pages: 3.0 mm (0.12")		474 mm (18.7")
When the maximum length is required	Length: 406.4 mm (16") Gap between pages: 6.0 mm (0.24")		531 mm (20.9")

<pre><printer sheet="" status=""> Sheet Output Time</printer></pre>	Status Sheet Example	Status Sheet (Network Settings) Example
03 xxxx yyyy/mm/dd hn:rim	Sheet Output Time YYYY.MM.DD hh:mm <basic information=""> Model XX-XXXXXBK Serial Number XXXXXXXXX Main Firmware Version XXXXXXXX MAC Address XX:XX:XX:XX:XX:XX IP Address Setting Auto/Manual IP Address XXX.XXX.XXX.XXX Subnet Mask XXX.XXX.XXX.XXX Gateway Address XXX.XXX.XXX.XXX Head ID XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</basic>	<general info=""> MAC Address xx:xx:xx:xx:xx Firmware xxxxxxxx <ethernet> Network Status Auto(Disconnected) <tcp ip="" ipv4=""> Obtain IP Address Manual IP Address xxx.xxx.xxx Subnet Mask xxx.xxx.xxx Default Gateway xxx.xxx.xxx</tcp></ethernet></general>



- You can also print a list of registered fonts, barcode fonts, images or templates.
- If the Wireless LAN Unit has been connected to the printer, wireless network status and settings are printed on the Network Settings section of the status sheet.

## **Checking Network Connection and Settings**

By printing the network connection check report, you can check the network connection status and the network settings.

On the operation panel, select the menu in the order shown below to print the report.

[Menu] - [General Settings] - [Network Settings] - [Connection Check]



When printing the network check report, load paper that is 108.0 mm (4.25 inches) wide or larger. The recommended paper length is 162.2 mm (6.4 inches) or more. Also, refer to the table below for the length of remaining paper required for printing.

# The length of remaining paper required for printing the network check report (from the auto cutting position to the paper end)

	Paper Form Paper Size	Full-page Label/Continuous paper (without gap/black mark detection)	Others (with gap/ black mark detection)
		281 mm (11.0")	
When using included roll paper	Length: 174.8 mm (6.9") Gap between pages: 3.0 mm (0.12")		296 mm (11.7")
When the maximum length is required	Length: 406.4 mm (16.0") Gap between pages: 6.0 mm (0.24")		531 mm (20.9")

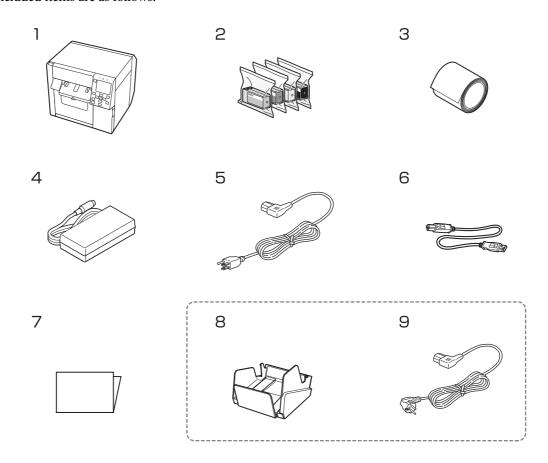
#### **Network Connection Check Report Example** Check Network Connection Check Result Pass Network is working correctly. If your problems persist, see your documentation for help and networking tips. Checked Items Ethernet cable Connection Check Pass IP Address Check Pass Detailed IP Setup Check Pass Network Status Printer Name XX-XXXXXPrinter Mode1 XXXXXXXXXXIP Address XXX.XXX.XXX Subnet Mask XXX.XXX.XXX Default Gateway XXX.XXX.XXX Mac Address $\mathsf{XX} : \mathsf{XX} : \mathsf{XX} : \mathsf{XX} : \mathsf{XX} : \mathsf{XX}$

# Setup

This chapter describes procedures for installing and setting up the printer that are required before using the printer.

# Unpacking

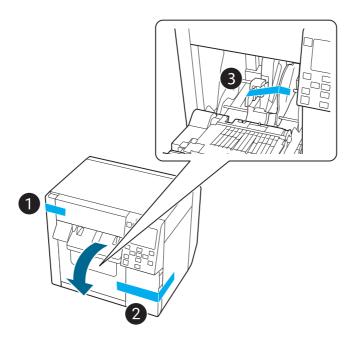
After unpacking, make sure that all the printer and the accessories are included and they have no damages. The included items are as follows.



1	Printer (CW-C4000 Series)	2	Ink Cartridges C, M, Y, BK (MK)* (For initial ink charging) * Either one of a BK (gloss black) cartridge or MK (matte black) cartridge is included.
3	Roll paper (for initial operation check)	4	AC adapter
5	Power cable	6	USB cable
7	Manual	8	OT-PT40 (paper output tray) (This may not be included depending on the country or region)
9	Power cable (This may not be included depending on the country or region)		

# Removing the Protective Materials

Remove the all protective materials such as pieces of tape and cushion materials. Open the cover to remove some protective materials inside the printer.



## Installing the Printer

Allow sufficient space for the printer. Make sure that the installation location meets the following requirements.

- On a level and stable surface with sufficient strength to support the weight of the printer (approx. 13.0 kg [28.66 lb]).
- On an area larger than the bottom surface of the printer.
- A location that is not subject to vibrations and impacts.
- A location where a dedicated power outlet is available.
- A location where you can load and remove paper without difficulty.
- A location with sufficient space around the printer to allow for installation of accessories, replacement of consumable products, and daily cleaning.
- A location that meets the following environmental requirements. For details, see "Environmental Specifications" on page 325.

		Temperature	Humidity
Printing		5 to 35°C	20 to 80% RH, No condensation
	-15 to 40°C	5 to 85% RH, No condensation (without being	
	Matte black ink	-10 to 40°C	unpacked)



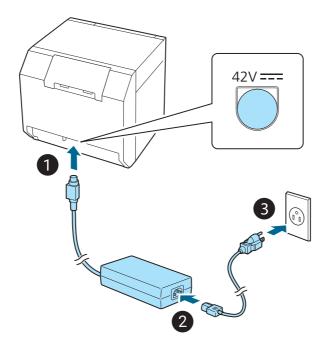
If the printer has charged matte black ink and is more likely to be exposed to a temperature of -10 or lower degrees C, make sure to discharge ink before turning the printer off. Otherwise, the print head may be damaged due to freezing. For details, see "Storing the Printer After Ink is Charged" on page 260.

## Connecting the Power Cable

Follow the procedure below to connect the power cable.



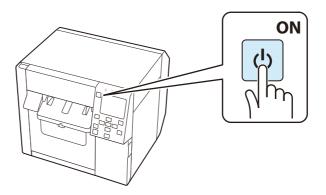
- Do not use other than the specified AC adapter (AC ADAPTER, K1 model number: M248B).
- Install the printer near a wall outlet so that you can disconnect the plug from the outlet immediately in the event of an emergency.
- Insert the DC connector of the AC adapter all the way into the power connector of the printer.
- Insert the connector of the power cable all the way into the AC inlet of the AC adapter.
- Insert the power plug firmly all the way into an outlet with a ground.



# **Turning On/Off**

## **Turning the Power On**

Hold down the (1) (power) button until the (2) (power) LED lights up.

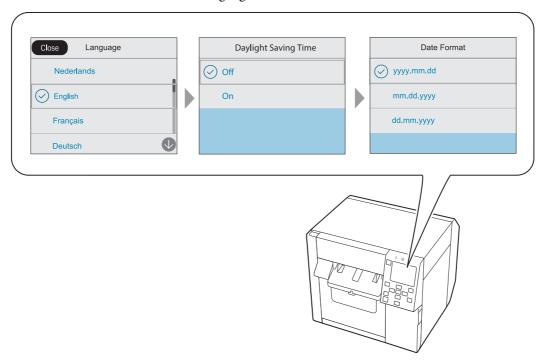


## **Turning the Power Off**

Press the  $\circlearrowleft$  (power) button. Then select [Yes] on the confirmation screen. The 0 (power) LED goes out and the printer is turned off.

# Setting Language and Date/Time

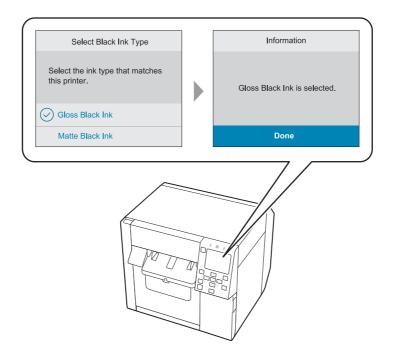
Follow the on-screen instructions to set language, the date and time.



## Selecting Black Ink Type

Follow the on-screen instructions to select which type of black ink you use.

On the black ink type confirmation screen, select [Done].



## Installing the Ink Cartridges

Shake and then install the ink cartridges following the on-screen instructions.

When you close the cover, a message that confirms whether to start initial ink charging is displayed. Select [Yes] to start the initial ink charging. When you see a message saying that the initial ink charging is finished, select [OK].

It takes about 19 minutes for the initial ink charging. The time differs according to circumstances.



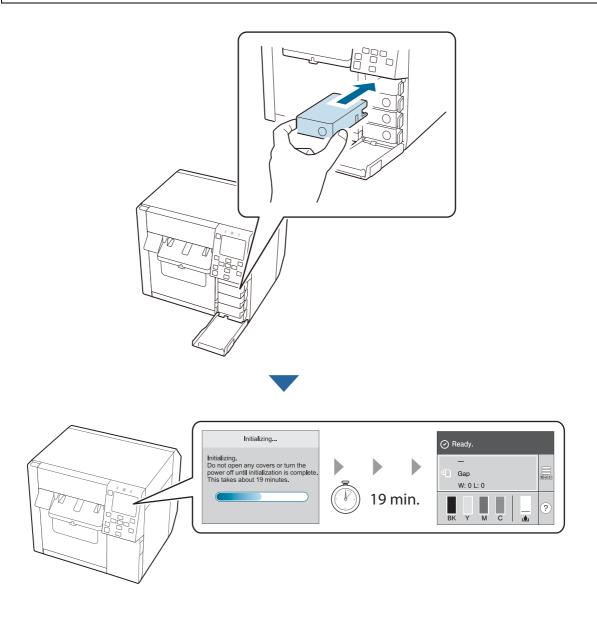
Before installing the ink cartridges, make sure to read the cautions on handling the ink cartridges.

"Cautions on Ink Cartridges" on page 8

Never open any cover of the printer or turn off the printer during ink charging.

Doing so will consume a large amount of ink, which may result in the need to replace the ink cartridges or the maintenance box before the completion of charging.

Once you start the initial ink charging, you cannot change the black ink type.



### Replacing the Ink Cartridges

### **Checking Amount of Ink Remaining**

You can check approximate remaining amount of ink on the operation panel or a computer.



Even when the printer is low on ink, you can print until you are prompted to replace the ink cartridge. Replace the ink cartridge as necessary.

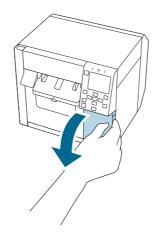
### How to Replace the Ink Cartridges

The procedure below is for replacing the BK cartridge. Follow the same procedure for replacing the other color cartridges.

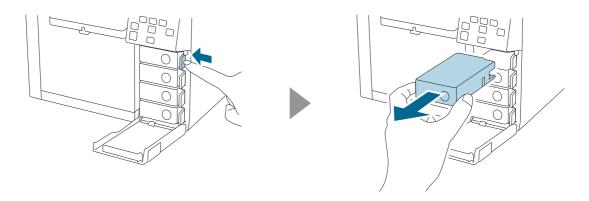


- When replacing the black ink cartridge, make sure to replace with a cartridge of the same type of black ink. The printer does not work if you install a cartridge of different type of black ink.
- Shake new ink cartridges well before installing them.

#### **1** Open the ink cartridge cover.



### **2** Press the lever down to remove the used ink cartridge.

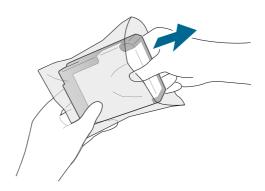


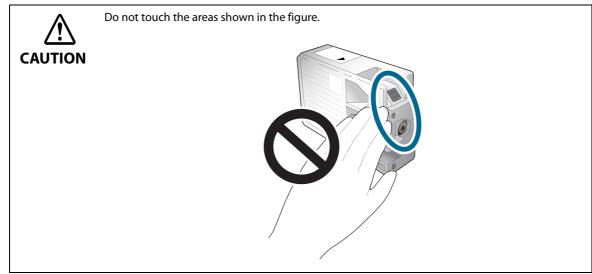
## **3** Shake the ink cartridge.

As shown in the figure below, shake the cartridge horizontally. Move the cartridge by about 5 cm to both directions, and repeat it about 15 times for about 5 seconds.



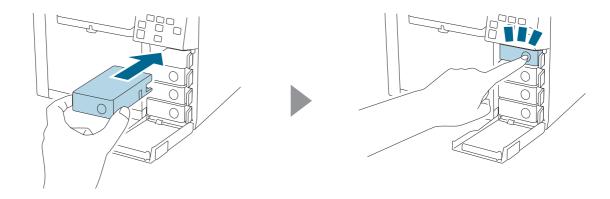
## **4** Take out the new ink cartridge from the bag.



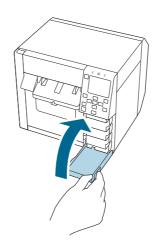


## 5 Install the ink cartridge.

Press the Push mark on the ink cartridge with your fingertip until it clicks into place.



### 6 Close the ink cartridge cover.



## Replacing the Maintenance Box

This section describes how to replace the maintenance box.



Before handling the maintenance box, make sure to read the cautions on handling the maintenance box.

#### **Checking the Amount of Empty Space in the Maintenance Box**

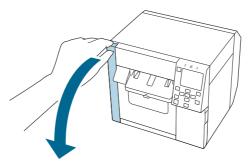
You can check approximate amount of empty space in the maintenance box on the operation panel or a computer.



Even if the maintenance box is running low on space, you can still print until you are prompted to replace it. Replace the maintenance box with a new one as necessary.

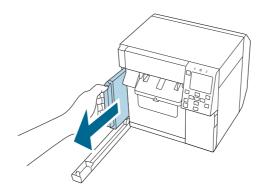
### How to Replace the Maintenance Box

**1** Open the maintenance box cover.



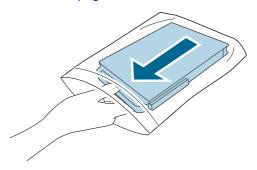
**Take out the maintenance box.** 

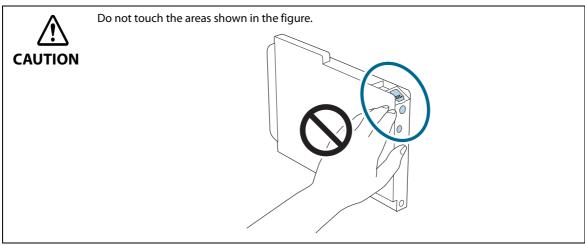
When disposing of the used maintenance box, put it in a plastic bag that came with the new maintenance box.



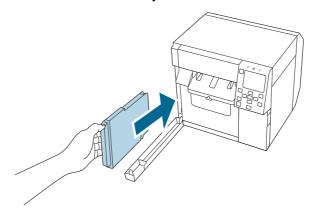
### **Take out a new maintenance box from the bag.**

△ Cautions on the Maintenance Box" on page 9

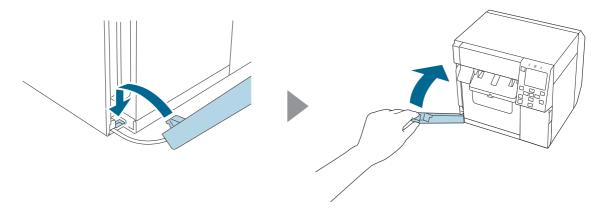




Insert the new maintenance box all the way in.

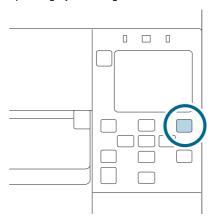


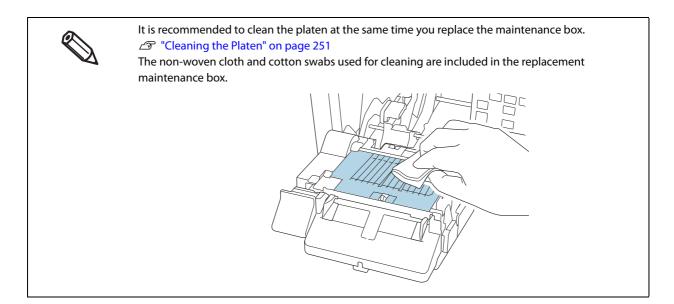
### **Close the maintenance box cover.**



## 6 Press the (Pause) button.

Check that the printer is ready for printing by checking the home screen.





## Installing the Printer Driver and Connecting to a Computer

There are the following two methods to install the printer driver on a computer and connect the printer to the computer.

- Setup using Install Navi
- Setup without using Install Navi

#### **Setup using Install Navi**

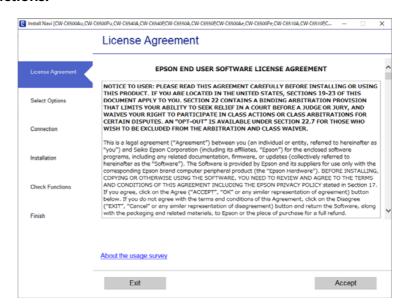
Just by following the on-screen instructions of Install Navi, you can install the printer driver and connect the printer to the computer.

Follow the procedure below to set up using Install Navi.

- **1** Turn on the computer.
- Check that the printer is powered on.
- Insert the included CD-ROM into the drive of the computer. Install Navi will start automatically.

If Install Navi does not start automatically, double-click InstallNavi.exe.

The screen below appears when Install Navi starts. Read and accept the software licensing agreement, and then click [Next]. For the subsequent steps, follow the onscreen instructions.



Install Navi will guide you to install the printer driver, PrinterSettings, and other software. The setup can be completed even if you skip the installation of software. In that case, you can install the software later.

Installing the printer driver and connecting to a computer are now complete.

#### Setup without using Install Navi

#### How to Get the Software

You can get the software from the following website.

For customers in North America, go to the following web site: www.epson.com/support/ For customers in other countries, go to the following web site: www.epson-biz.com/

#### How to Connect to a Computer or Smart Device

- When connecting via USB or Wired LAN
   Connect the interface cable to be used to the connector on the back of the printer.
- When connecting via Wireless LAN
   Connect the optional Wireless LAN Unit to the connector on the back of the printer.

#### **Connecting to Wired LAN**

Connect to the network with a LAN cable and check the connection.

- Connect the printer and a hub (or LAN switch) with a LAN cable.
- Select [Menu] on the home screen.
- 3 Select [General Settings] [Network Settings] [Connection Check].
  The result of the check is displayed. Check that the printer is connected the network successfully.

#### Connecting to Wireless LAN (Wi-Fi)

By connecting the optional Wireless LAN Unit to the printer, the printer can communicate over a wireless LAN. There are several ways to connect the printer to a wireless LAN (Wi-Fi). Select the connection method that best suits your environment and conditions.

For information (SSID, password) of the wireless LAN router (access point), please contact your network administrator.

By using Wi-Fi Direct, you can connect directly to the printer via wireless LAN without using a wireless LAN access point. Follow the procedure below.

- Connect the optional Wireless LAN Unit to the printer, and turn the printer on.
- Select [Menu] on the home screen.
- Select [General Settings] [Network Settings] [Wi-Fi Setup] [Wi-Fi Direct].

Follow the on-screen instructions to complete the setup.



If [Wi-Fi Setup] is not displayed, check that the optional Wireless LAN Unit is properly connected, and turn the printer off and then back on.

When Wi-Fi Direct is enabled, the printer acts as an access point and can be connected to up to 8 devices.

## **How to Configure the Network Settings**

Follow the procedure below to set up the IP address of the printer.

- Select [Menu] on the home screen.
- Select [General Settings] [Network Settings] [Advanced] [TCP/IP].
- Select [TCP/IP Setting Method] and then select [Auto] or [Manual].
  When you select [Auto], the network setting is complete.
  When you select [Manual], proceed to step 4.
- 4 Enter the IP address and the subnet mask.
  Select a setting to change and then press the [OK] button to enter the information.
- **5** Select [Start Setup].

The network setting is now complete.

## **Media Settings**

Configure the media source to use, and type, shape, detecting method of media to use.

• Setting using the printer driver

Printer Driver for Windows

Printer Driver for Mac

Printer Driver for Linux

• Changing the settings on the printer

PrinterSetting (Windows)

**Epson Label Printer Utility** 

Epson Label Printer Utility for Linux (TBD)

WebConfig

Operation Panel



- If the settings on the printer (settable using the operation panel, PrinterSettings, or WebConfig) differ from the printer driver settings, printing is performed by applying the printer driver settings.
- For media that can be used with this product, refer to "Paper Specifications" on page 310.

## **Loading Paper**

This section describes how to load and replace paper. The procedure for replacing paper differs depending on whether to supply paper from inside or out side the printer. Videos that show the procedure are also available. Click the URL below to view the videos.

<a href="https://www.epson-biz.com/?prd=cw-c4k&inf=video">https://www.epson-biz.com/?prd=cw-c4k&inf=video</a>

Supply from Inside (Internal)	Supply from Outside (Rear Feed)
Paper is supplied from inside the printer. Set roll paper into the printer.	Paper is supplied from outside the printer. Place fanfold paper behind the printer.



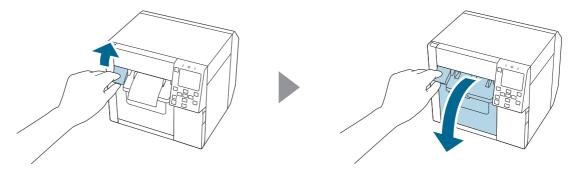
- To supply roll paper from outside the printer, prepare an external paper feeder and paper rewinder by yourself. For more details, contact qualified service personnel for advice.
- When replacing paper with a different shape, form, or type of paper, change the paper settings either from the operation panel or on the printer driver before loading the paper.
  - "Operation Panel Settings" on page 208

## **Loading Roll Paper**

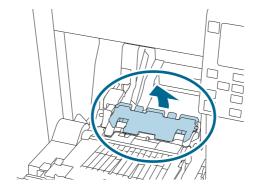


After turning on the printer, wait until the home screen is displayed, and then open the front cover. If you open the cover before the home screen is displayed, the printer may fail to load the paper correctly.

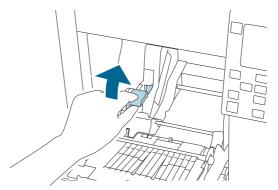
- **1** Turn the printer on.
- **Open the front cover.**



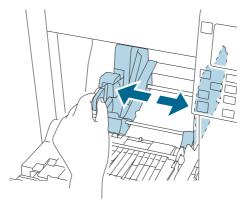
If the paper feed guide has been attached, remove it.



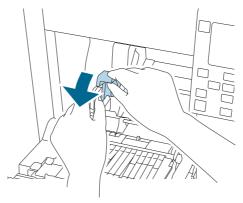
**A** Raise the lock lever of the roll paper guides.



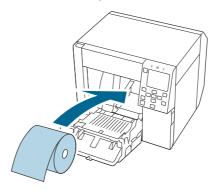
Slide the roll paper guides outward as far as they go.



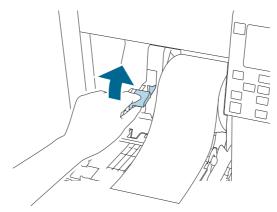
6 Lower the lock lever of the roll paper guides.



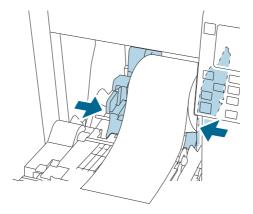
7 Insert paper with the printable side face up.



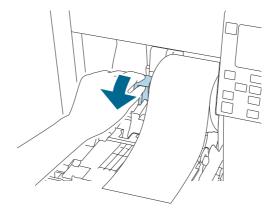
**8** Raise the lock lever of the roll paper guides.



Slide the roll paper guides against the paper.

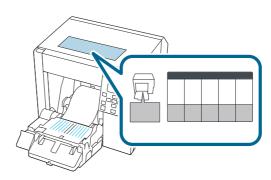


1 0 Lower the lock lever of the roll paper guides.

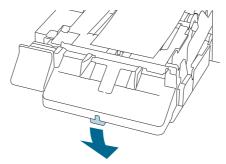


**1** According to the paper width, open and/or close the platen shutters.

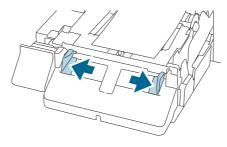
"Adjusting the Shutters" on page 65



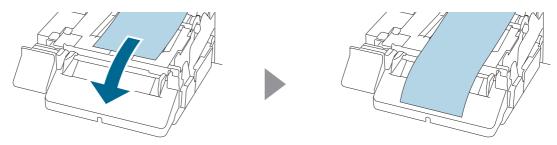
12 Lower the lock lever of the paper ejection guides.



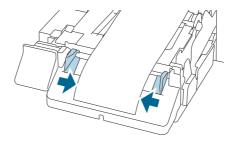
13 Slide the paper ejection guides outward.



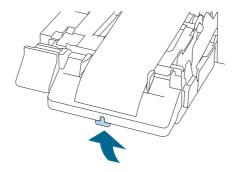
1 4 Pull out the paper as shown.



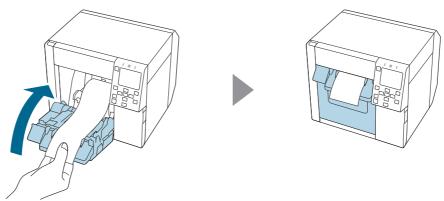
15 Hold down the paper by hand, and slide the paper ejection guides against the paper.



16 Raise the lock lever of the paper ejection guides until it clicks into place.

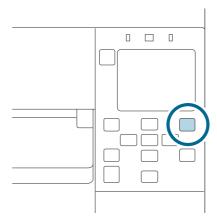


**17** Pull out the leading edge of the roll paper, and then close the front cover.



# **18** Press the **(Pause)** button.

Check that the printer is ready for printing by checking the home screen.

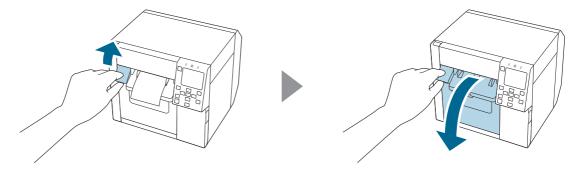


## **Loading Fanfold Paper**

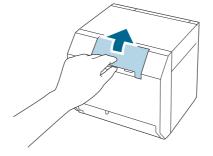


After turning on the printer, wait until the home screen is displayed, and then open the front cover. If you open the cover before the home screen is displayed, the printer may fail to load the paper correctly.

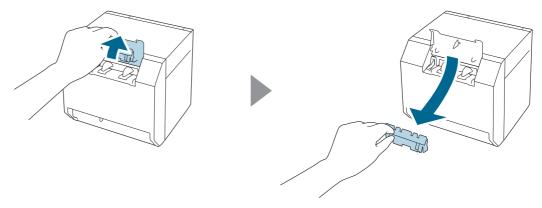
- 1 Turn the printer on.
- **Open the front cover.**



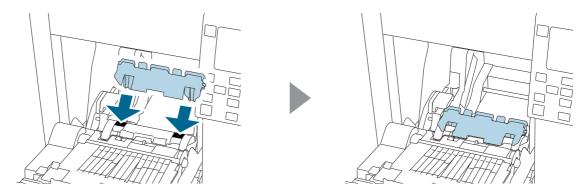
**3** Open the rear cover.



A Remove the paper feed guide, and then close the rear cover.

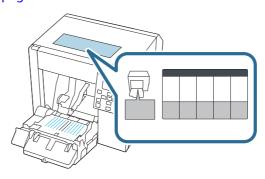


**5** Attach the paper feed guide.

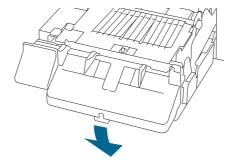


6 According to the paper width, open and/or close the platen shutters.

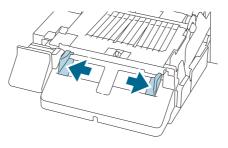
"Adjusting the Shutters" on page 65



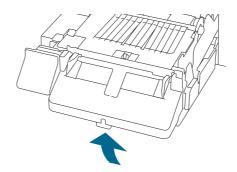
**7** Lower the lock lever of the paper ejection guides.



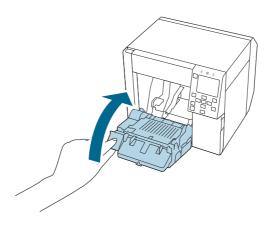
8 Slide the paper ejection guides outward as far as they go.



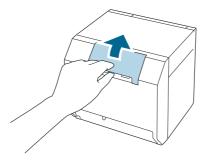
Raise the lock lever of the paper ejection guides until it clicks into place.



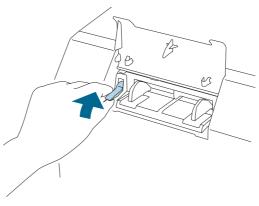
10 Close the front cover.



**11** Open the rear cover.

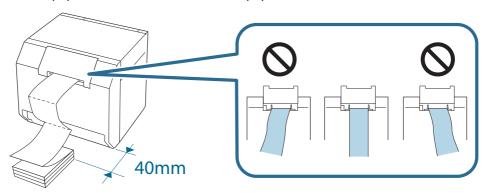


12 Raise the lock lever of the fanfold paper guides.

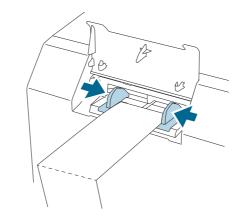


## 13 Place the fanfold paper behind the printer.

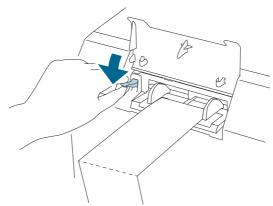
- Place the fanfold paper at least 40 mm away from the printer.
- Make sure the paper is vertical in relation to the paper feed slot.



### **1** Slide the fanfold paper guides against the paper.

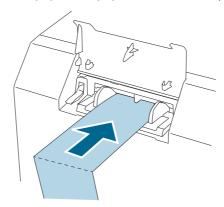


## 15 Lower the lock lever of the fanfold paper guides.

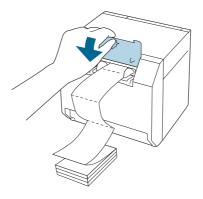


## 16 Insert the leading edge of the paper with the printable side face up.

When you insert about 100 mm of the paper, the paper is automatically fed further into the printer.

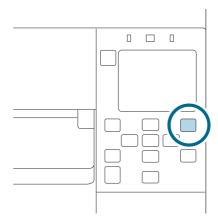


### **17** Close the rear cover.



# 18 Press the (Pause) button.

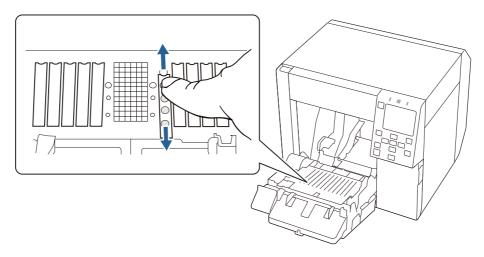
Check that the printer is ready for printing by checking the home screen.



## **Adjusting the Shutters**

Inside the front cover, there are shutters for adjusting paper suction for during printing.

The shutters need to be correctly opened/closed to match the paper width used. To open/close them, move them with a finger. Furthermore, the paper width can be checked on the label at the top of the main unit.





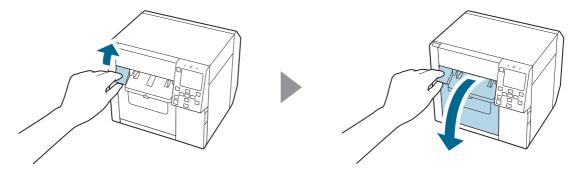
If the shutters are not correctly opened/closed, paper may be jammed or smudged with ink.

Paper width / Backing paper width	Shutter state
25.4 to 43.8 mm	Close all the shutters.
43.9 to 58.4 mm	Open the innermost shutters.
58.5 to 73.0 mm	Open the inner four shutters.

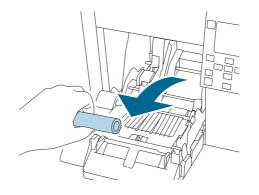
Paper width / Backing paper width	Shutter state	
73.1 to 87.6 mm	Open the inner six shutters.	
87.7 to 102.2 mm	Open the inner eight shutters.	
102.3 mm or longer	Open all the shutters.	

## **How to Remove Paper**

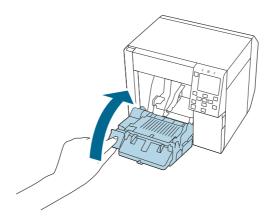
- 1 Check that the printer has been turned on.
- **Open the front cover.**



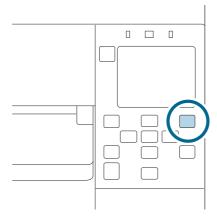
**Remove roll paper or paper core from the printer.** 



**⚠** Close the front cover.



# **5** Press the (Pause) button.



Removing the paper is now completed.

To load paper, see the following pages.

"Loading Roll Paper" on page 54, "Loading Fanfold Paper" on page 60

## **Test Print**

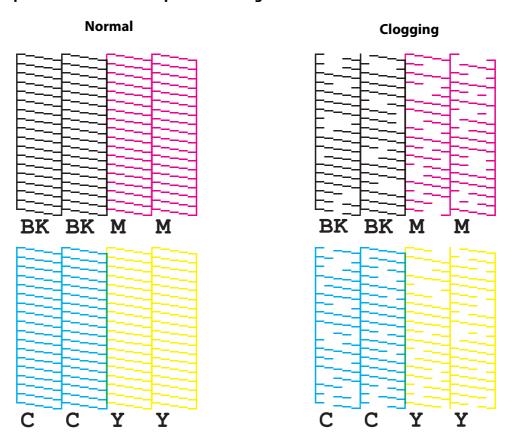
You can check whether the printer operates normally or not by printing a nozzle check patterns. Follow the procedure below to print the nozzle check patterns. The nozzle check patterns allow you to check print nozzles for clogging.

- **1** Turn the printer on.
- Select [Menu] and then press the [OK] button.
- Select [Maintenance].
- ▲ Select [Print Head Nozzle Check].
- **Select [Print].**The nozzle check patterns are printed.

### **6** Checking the Nozzle Check Patterns

If the pattern is printed normally, all the lines are printed properly as shown in the left figure below. Nozzles are clogging if there are missing lines as shown in the right figure below. Run the print head cleaning.

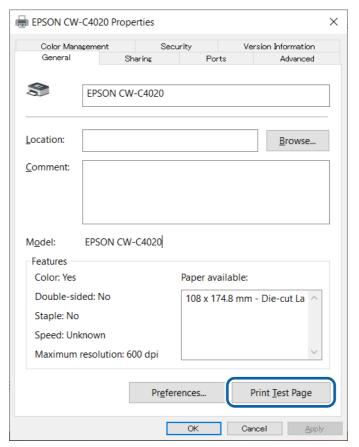
#### Example of the nozzle check patterns with gloss black ink



### **Self-Test Printing**

If you have already installed the printer driver, you can do a test print using the printer driver. Follow the procedure below to do the test print.

- 1 Open [Devices and Printers].
- **7** Right-click the icon of the printer, and then click [Printer properties].
- The Printer properties screen appears. Click [Print Test Page] on the screen.





If the [Media Detect] setting has been set to [Gap] or [Black mark], the test page is not printed from the first label. However, you can change to print from the first label if you do the settings described in "Processing Paper to Avoid Unprinted Labels" on page 243.

# **Handling**

This chapter provides basic information necessary for handling the printer.

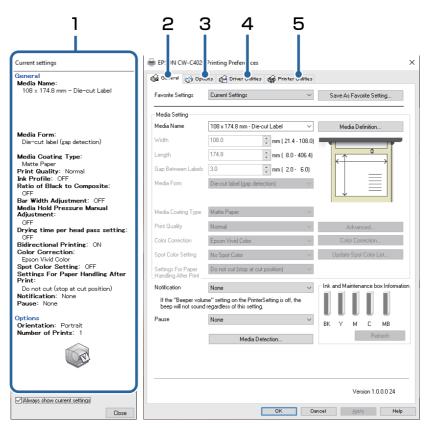
## **Printer Driver for Windows**

This chapter describes how to operate the printer driver for Windows.

The printer driver is software to control the printer in accordance with the print instructions of application software. Setting the print settings in the printer driver screen enables you to obtain the best print results. Furthermore, you can also use the utilities to check the printer status and perform maintenance.

#### Printer Driver Screen Configuration

The printer driver is equipped with a help function. Right-click an item and then click Help to display an explanation on the item.



#### 1 Current Settings pane

Displays a summary of current settings.

#### 2 General tab

Lets you set media (paper) size, media form, and other basic print settings.

#### 3 Options tab

Print orientation and the number of copies can be set.

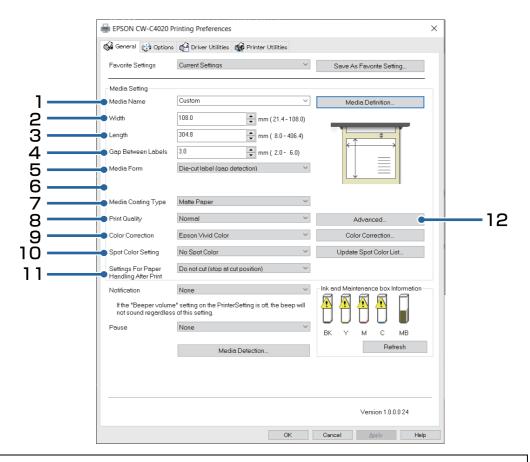
#### 4 Driver Utilities tab

Lets you configure various advanced settings.

#### 5 Printer Utilities tab

Lets you run printer maintenance functions such as print head cleaning or nozzle check, and start PrinterSetting.

#### **Media Settings**



#### 1 Media Name

You can select the media settings you created and registered to "Media Definition". You can also directly change the paper settings by selecting [Custom].

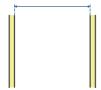
### 2 Width

Enter the width.

• Continuous or wristband paper: Paper width



• Full-page label: label width excluding the backing paper



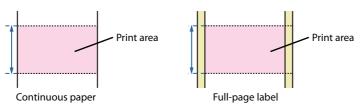
• Die-cut label: Label width excluding backing paper



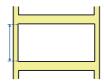
### 3 Length

Enter the length.

• Continuous paper or full-page label: Length of the print range (length of one page)

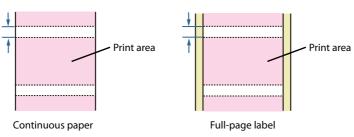


• Die-cut label: Label length excluding backing paper



### 4 Gap Between Labels

Enter the gap between labels.



#### 5 Media Form

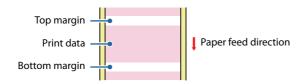
Select the form of the paper. ("Paper Specifications" on page 310)

#### 6 Media Saving (for continuous paper/full-page label only)

Select a media saving setting. The [Media Saving] function eliminates margins from one-page print data to suppress wasting paper.



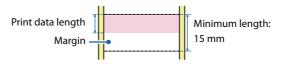
If the print data includes barcode font replacement data, the [Media Saving] setting such as [Eliminate Lower Margin] and [Eliminate Lower and Upper Margin] is ignored.



- No Saving: Paper is advanced before and after printing causing top and bottom margins on the printout.
- Eliminate Lower Margin: Paper is not advanced after printing to eliminate bottom margin from the printout.
- Eliminate Lower and Upper Margin: Paper is not advanced before and after printing to eliminate both top and bottom margins from the printout.



If you set the printer to cut paper in the [Settings for Paper Handling After Print] setting, the length of at least 15 mm is required. When the length of print data is less than 15 mm, the margins are not eliminated even if you have set to [Eliminate Lower Margin] or [Eliminate Lower And Upper Margin].



If you want to print at a length that matches the print data, set the length to the maximum and use the [Media Saving] function.

#### 7 Media Coating Type

Select the paper type. ("Paper Specifications" on page 310)

#### 8 Print Quality

Select the print quality.

Print resolution when [Media Type] is [Plain Paper] or [Wristband Paper]

- High Speed: 300 x 600 dpi\*1
- Speed: 600 x 600 dpi (initial setting)
- Standard: 600 x 600 dpi
- Quality: 600 x 1200 dpi<sup>\*2</sup>

Print resolution when [Media Type] is [Texture Paper], [Matte Paper] or [Synthetic]

- High Speed: 300 x 600 dpi<sup>\*1</sup>
- Speed: 600 x 600 dpi
- Standard: 600 x 600 dpi (initial setting)
- Quality: 600 x 1200 dpi<sup>\*2</sup>

Print resolution when [Media Type] is [Glossy Paper], [Glossy Film], or [High Glossy Paper]

- Standard: 600 x 600 dpi
- Quality: 600 x 1200 dpi (Initial setting)\*2
- Max Quality: 1200 x 1200 dpi
- \*1: The resolution of the print data sent to the printer should be 300 dpi.
- \*2: The resolution of the print data sent to the printer should be 600 dpi.



**IMPORTANT** 

Supported paper types vary depending on which type of black ink, gloss black or matte black, is installed. See "Paper Specifications" on page 310.



- When the color correction method is [Epson Preferred Color], the print quality (print resolution) that can be set differs from the above.
- If you change the [Media Type] setting, the [Print Quality] setting will automatically
  be set to the initial setting suitable for the selected paper type.
   Click [Advanced] to configure more detailed print quality settings.

#### 9 Color Correction

Configure color correction settings. For more details about the color correction, see "Color Correction" on page 229.

- Epson Vivid Color: click [Color Correction] to customize the color settings.
- Epson Preferred Color: Use this setting when you replace the printer from TM-C3500 Series.
- ICM: click [Color Correction] to select an ICC profile.
- None: no color correction is applied.



[Epson Preferred Color] allows you to manually customize the color settings in the same way as [Epson Vivid Color], however, there are restrictions on the combination of print quality and paper type. For details, see "Restrictions when using Epson Preferred Color" on page 229.

#### 10 | Spot Color Setting

Select a spot color setting file. For more details about the spot color setting, see "Spot Color Settings" on page 223.

#### 11 Settings For Paper Handling After Print

- Cut (after printing last label)
- Cut (at specified label)
- Cut (after last page of collate page)
- Do not cut (stop at peel position)
- Do not cut (stop at cut position) (Initial setting)
- Do not cut (stop at the print end position)



If you have set to [Cut (after last page of collate page)] and if the printer stops due to a paper jam or other reason while the auto cutter is operating, it is impossible to resume printing.

### 12 Advanced

Change the settings for color, barcode, and paper handling. For more details about each menu item, see the Help.

- Print Color Adjustment
  - Ink Profile: Print density can be changed to darker or lighter.
  - Ratio of Black to Composite: Adjust the ratio of black ink to composite black.
- Barcode and 2D Symbol Preset
  - Bar Width Adjustment: When using a built-in barcode font, adjust the bar width.
- Paper Adjustment
  - Media Hold Pressure Manual Adjustment: Adjust the paper suction power of the platen.
  - Drying time per head pass setting: Adjust additional time to dry ink.
- Bidirectional Printing
  - When enabled, printing is performed when the print head moves to the left or right, resulting in faster printing speed.

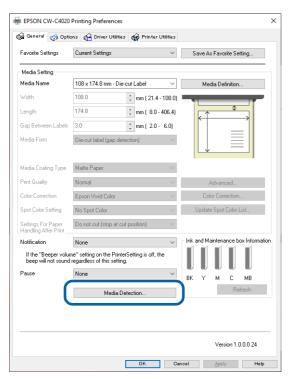




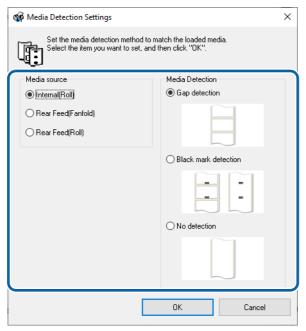
- If you change the settings in [Print Color Adjustment], and/or [Bar Width Adjustment], it may affect readability of barcodes.
- If you increase the ratio of black ink in [Ratio of Black to Composite], be careful not
  to touch the printed surface immediately after printing because ink can adhere to
  your fingers.

# **Paper Source and Paper Detection Settings**

- **1** Open the printer driver window.
- Click [Media Detection...] on the General tab.



Make the following settings to match them with the paper you use.



• Media Source: Select how to supply paper to the printer.

Setting	Description	
Internal roll (roll paper)		Paper is supplied from inside the printer. Set roll paper attached to the spindle into the printer.
External feed (fanfold paper) External feed (roll paper)		Paper is supplied from outside the printer. Place roll paper or fanfold paper behind the printer.



If you want to supply roll paper from outside the printer, you need to prepare an external device (paper feeder or paper winder) by yourself. Please contact your dealer for details.

• Media detection: Select how to detect print positions.

Setting item	Description
Gap detection	The print position is detected based on the gaps between labels.
Black mark detection	The print position is detected based on the black marks printed on the back or backing paper of the paper.
No detection	Print position detection using gaps or black marks is not performed.

# ✓ Click [OK].

Paper source and paper detection settings are now complete.

# **User-Defined Paper**

The size, form, type, and other settings of frequently used paper can be registered to the printer driver as a media definition. This is convenient because you will not need to set the paper settings of the driver when printing from an application if you register a media definition in advance.

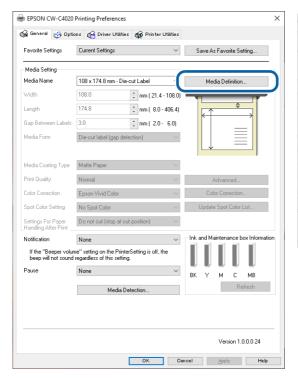


If you wish to set the paper size and other settings every time without registering a media definition, select [Custom] from the [Media Name] pull-down menu on the [General] tab. The various settings on the [General] tab will become available so that you can set the paper size and other settings.

### **Registering New**

Register a new media definition by following the steps below.

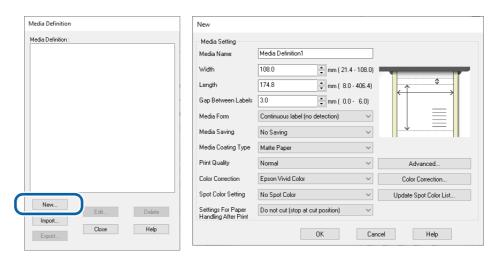
- Open the printer driver window.
- 2 Click the [Media Definition] button on the [General] tab.
  The Media Definition screen appears.





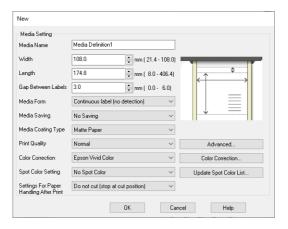
# **3** Click the [New] button.

The New screen appears.

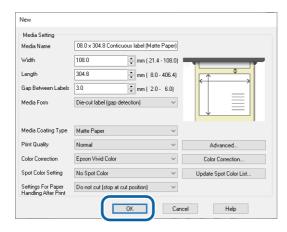


### Enter or change the settings to match them with the paper you use.

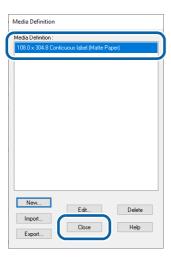
Enter the name of the paper definition in [Media Name]. This is the name displayed when you select a paper size from an application. For explanation for the other settings, see "Media Settings" on page 72.



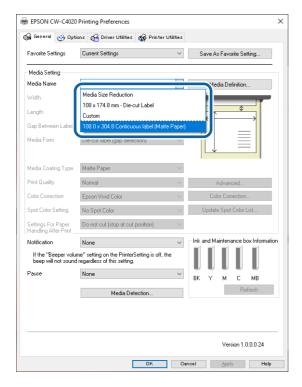
# Click [OK].



6 Check that the registered media name is displayed in the Media Definition screen and then click [Close].



**7** Check that you can select the registered media name in [Media Name] on the [General] tab.

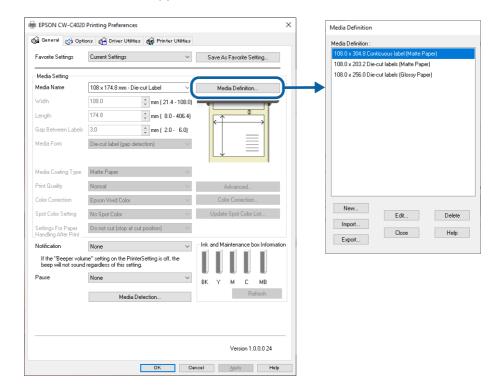


**R** Click the [OK] button to close the driver.

Paper registration (media definition) is now complete.

# **Editing and Deleting**

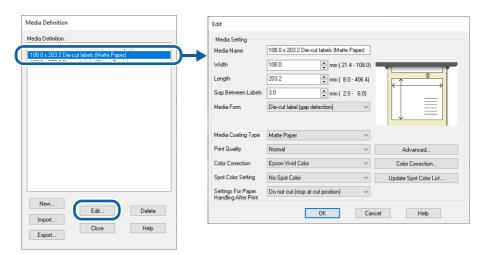
- **1** Open the printer driver window.
- 2 Click the [Media Definition] button on the [General] tab.
  The Media Definition screen appears.



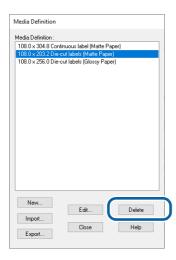
Click to select the media definition you wish to edit or delete.



If you wish to change the definition settings, click the [Edit] button. The Edit screen appears and you can change the definition.



If you wish to delete the definition, click the [Delete] button. A screen appears and if you click the [OK] button, the definition is deleted.



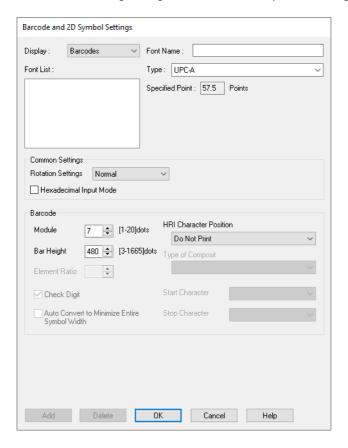
Editing or deleting a media definition is now complete.

# **Printing Barcodes**

The printer has built-in fonts. This allows you to print a barcode without creating it on an application software.

### **Barcode Font Settings**

You can make the barcode settings using [Barcode and 2D Symbol Settings] on the [Driver Utilities] tab.



### Make the following settings.

• Display: Select [Barcodes].

• Font Name: Enter a character string. The string is set as the barcode font name. Only ASCII

characters are accepted.

• Type: Select a barcode type. Available setting items changes according to the selected

barcode type. You can select the type from the following options.

UPC-A	UPC-E	JAN13(EAN)
JAN8(EAN)	Code39	ITF
Codabar(NW7)	Code93	Code128
GS1-128	GS1 DataBar Omnidirectional	GS1 DataBar Truncated
GS1 DataBar Limited	GS1 DataBar Expanded	

• Rotation Settings: Select an option to rotate a barcode.

• Hexadecimal Input Mode:

Select the check box to enter data for a barcode in hexadecimal.

• Module: Specify the width of the narrowest element of the barcode in units of dot.

• Bar Height: Specify the height of the element in units of dot. Actual print size equivalent to

the specified dots will be displayed.

• HRI Character Position:

Specify the position to print HRI characters. Select [Do Not Print] if printing HRI characters is not necessary.



Depending on the selected barcode type, the position option cannot be selected.

• Composite Component:

Select a composite type.

Element Ratio: Specify the ratio of wide element width to the narrowest element width.

The recommended ratio is 2.5.

• Check Digit: A number or symbol added to the barcode number in order to detect an error in

the barcode number and to prevent fabrication.

• Auto Convert to Minimize Entire Symbol Width:

You can select this when the barcode type is CODE128. This function minimizes the number of symbols and characters that are necessary to express the specified data string.

Start Character: Specify the start character.Stop Character: Specify the stop character.

### Click [Add].

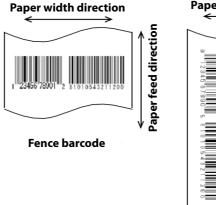
The configured barcode font is registered and added to the font list.



- Up to 30 barcode fonts can be registered.
- To edit settings of a registered barcode font, select the font from the font list, change the settings and then click [Save].
- To delete a registered barcode font, select the font from the font list, and then click [Delete].

### **Recommended Module Values**

Print directions of a barcode are as shown below. The recommended module values vary by paper type, barcode type, and the print direction.







If [Rotation Settings] is set to [Normal] or [Rotate 270 Degrees], the barcode is not be printed.

- ☐ When the minimum module size is in units of 300 dpi ☐ Page 87
- ☐ When the minimum module size is in units of 600 dpi ☐ Page 88



- Readability of a barcode varies by paper type, performance of a barcode reader, or other factors. Furthermore, drop in print quality due to clogging of print head nozzles or skew of ink drops can cause a barcode to become unreadable. In case it happens, it is recommended to print HRI characters or take other measures.
- Due to characteristic of ink, ink seeped into paper may cause the bars of a barcode to be printed thicker. In such cases, carry out [Bar Width Adjustment] that reduces the bar width by 2 pixels, and increases space width by 2 pixels.
- If vibrations or shocks are applied to the printer during transporting or installing the printer, it may cause drop in barcode rank. In that happens, barcode rank may improve by carrying out [Bi-directional Printing Adjustment]. ("Bi-directional Printing Adjustment" on page 189)

# When the minimum module size is in units of 300 dpi

		ANSI Grade D or higher		ANSI Grade C or higher					
Barcode	Orientation	Plain Paper	Wristband Paper	Matte Paper	Synthetic	Texture Paper	Glossy Paper	Glossy	High Glossy Paper
Code39	Fence	4	3	3	3	-	3	3	3
	Ladder	5	3	3	3	-	3	3	3
Codabar	Fence	4	3	3	3	-	3	3	3
	Ladder	5	3	3	3	-	3	3	3
Code93	Fence	4	3	3	3	-	3	3	3
	Ladder	5	3	3	3	-	3	3	3
Code128	Fence	4	3	3	3	-	3	3	3
	Ladder	5	3	3	3	-	3	3	3
GS1-128	Fence	4	3	3	3	-	3	3	3
	Ladder	5	3	3	3	-	3	3	3
ITF	Fence	4	3	3	3	-	3	3	3
	Ladder	5	3	3	3	-	3	3	3
GS1 DataBar	Fence	4	3	3	3	-	3	3	3
Omnidirectio nal	Ladder	5	3	3	3	-	3	3	3
GS1 DataBar	Fence	4	3	3	3	-	3	3	3
Truncated	Ladder	5	3	3	3	-	3	3	3
GS1 DataBar	Fence	4	3	3	3	-	3	3	3
Limited	Ladder	5	3	3	3	-	3	3	3
GS1 DataBar	Fence	4	3	3	3	-	3	3	3
Expanded	Ladder	5	3	3	3	-	3	3	3
UPC-A	Fence	4	3	3	3	-	3	3	3
UPC-E	Ladder	5	3	3	3	-	3	3	3
JAN13	Fence	4	3	3	3	-	3	3	3
JAN8	Ladder	5	3	3	3	-	3	3	3
EAN13	Fence	4	3	3	3	-	3	3	3
EAN8	Ladder	5	3	3	3	-	3	3	3

# When the minimum module size is in units of 600 dpi

		ANSI Grade D or higher		ANSI Grade C or higher					
Barcode	Orientation	Plain Paper	Wristband Paper	Matte Paper	Synthetic	Texture Paper	Glossy Paper	Glossy Film	High Glossy Paper
Code39	Fence	7	7	6	6	-	6	6	6
	Ladder	10	7	6	6	-	6	6	6
Codabar	Fence	7	7	6	6	-	6	6	6
	Ladder	10	7	6	6	-	6	6	6
Code93	Fence	7	7	6	6	-	6	6	6
	Ladder	10	7	6	6	-	6	6	6
Code128	Fence	7	7	6	6	-	6	6	6
	Ladder	10	7	6	6	-	6	6	6
GS1-128	Fence	7	7	6	6	-	6	6	6
	Ladder	10	7	6	6	-	6	6	6
ITF	Fence	7	7	6	6	-	6	6	6
	Ladder	10	7	6	6	-	6	6	6
GS1 DataBar	Fence	7	7	6	6	-	6	6	6
Omnidirectio nal	Ladder	10	7	6	6	-	6	6	6
GS1 DataBar	Fence	7	7	6	6	-	6	6	6
Truncated	Ladder	10	7	6	6	-	6	6	6
GS1 DataBar	Fence	7	7	6	6	-	6	6	6
Limited	Ladder	10	7	6	6	-	6	6	6
GS1 DataBar	Fence	7	7	6	6	-	6	6	6
Expanded	Ladder	10	7	6	6	-	6	6	6
UPC-A	Fence	7	7	7	7	-	7	7	7
UPC-E	Ladder	10	7	7	7	-	7	7	7
JAN13	Fence	7	7	7	7	-	7	7	7
JAN8	Ladder	10	7	7	7	-	7	7	7
EAN13	Fence	7	7	7	7	-	7	7	7
EAN8	Ladder	10	7	7	7	-	7	7	7

# **How to Specify Barcode Data**

See the following descriptions to specify barcode data.

About the composite symbol:

Switching between CC-A and CC-B is automatically performed, however, to use CC-C, you need to specify to use it.

(For GS1-128, the type of composite component can be selected from [No composite], [CC-A/CC-B], and [CC-C].)

Composite component type	Encodable number of digits
CC-A	1 to 56 digits
СС-В	1 to 338 digits
CC-C	1 to 2361 digits

#### About HRI characters:

If the length of the HRI characters becomes wider than entire width of the barcode, the length is regarded as the barcode width.

#### **UPC-A**

• Specify the barcode data with 11 digits. A check digit will be automatically added.

#### **UPC-E**

• Specify the barcode data with 10 digits. 5 digits are for a manufacturer code, and the rest of 5 digits are for a product code.

#### JAN13(EAN)

• Specify the barcode data with 12 digits. A check digit will be automatically added.

#### JAN8(EAN)

• Specify the barcode data with 7 digits. A check digit will be automatically added.

### Code39

• If both or either one of a start code or a stop code is not specified, they will be automatically added.

### **ITF**

• If specified with an odd number of digits, "0" (zero) will be automatically added at the beginning of the digits.

#### Codabar(NW7)

• Do not include a start code and a stop code. The start code and stop code you specified on the printer driver will be added.

### Code93

- A start code, two check digits, and a stop code will be automatically added.
- A character  $(\Box)$  that indicates a start code is printed at the beginning of the HRI characters.
- ullet A character (oxdot) that indicates a stop code is printed at the end of the HRI characters.
- A combination of and an alphabet character is printed to express each of HRI control characters (00h to 1Fh, 7Fh).

Control	haracter	HRI	Control	haracter	HRI	Control	HRI	
ASCII	Hex number	charac- ter	ASCII Hex number		charac- ter	ASCII	Hex number	charac- ter
NULL	00	■U	VT	ОВ	<b>■</b> K	SYN	16	■V
SOH	01	■ A	FF	0C	■L	ETB	17	■W
STX	02	■B	CR	0D	■ M	CAN	18	■ X
ETX	03	<b>■</b> C	SO	0E	■ N	EM	19	■Y
EOT	04	■D	SI	OF	■0	SUB	1A	■Z
ENQ	05	■E	DLE	10	■P	ESC	1B	■ A
ACK	06	■F	DC1	11	■Q	FS	1C	■B
BEL	07	■G	DC2	12	■ R	GS	1D	<b>■</b> C
BS	08	■Н	DC3	13	<b>■</b> S	RS	1E	■D
НТ	09	<b>■</b> 1	DC4	14	■T	US	1F	■E
LF	0A	■ J	NAK	15	■U	DEL	7F	■F

### Code128

- If you have disabled the auto convert function, enter a two-digits start code at the beginning of the data. If you have enabled the auto convert function, the type of start character is automatically determined and you do not need to specify the type in your application.
  - An error will occur if you add {A, which sets the type to CODE A, when CODE A has already been selected as the start character.
  - An error will occur if you add {B, which sets the type to CODE B, when CODE B has already been selected as the start character.
  - An error will occur if you add any one of the following characters when CODE C has already been selected as the start character.
     {S {C {2 {3 {4 {{{}}}}}}
- A special character is expressed by a combination of { and the next character.

Control character	ASCII	HRI character
SHIFT	{S	Not printed
CODE A	{A	Not printed
CODE B	{B	Not printed
CODE C	{C	Not printed
FNC1	{1	Not printed
FNC2	{2	Not printed
FNC3	{3	Not printed
FNC4	{4	Not printed
'ί'	{{	{ is printed.

#### **GS1-128**

- '()' are used as delimiters for the application identifiers. (printed as the HRI character, but not encoded.)
- A start code (CODE A, CODE B, CODE C) and a stop code will be automatically added.
- A symbol character FNC1 is automatically added next to the start code.
- If you use "\*", it will be skipped.
- As an application identifier, specify a two-digits consecutive number. If the identifier is not specified correctly, an error will occur.
- A special character is expressed by a combination of { and the next character.
- If data immediately after { does not apply to any one of the followings, an error will occur.

Control character	ASCII	HRI character
Control character (00h to 1Fh, and 7Fh)		A space is printed.
FNC1	{1	A space is printed.
'}'	{{	{ is printed.
'('	{(	( is printed.
')'	{)	) is printed.
1%1	{*	* is printed.
Beginning parenthesis for an application identifier	(	( is printed.
Closing parenthesis for an application identifier	)	) is printed.
Skipped character	*	Not printed

#### GS1 DataBar Omnidirectional / GS1 DataBar Truncated / GS1 DataBar Limited

- The first "01", an application identifier, is not encoded (not included as the barcode data).
- When the HRI character is printed, the application identifier 01 is printed as "(01)" before the package identification code.
- You do not need to add a check digit in the barcode data.
- When the HRI character is printed, a check digit will be automatically printed after the product code.
- For GS1 DataBar Limited, specify 0 or 1 for the first digit.

### **GS1 DataBar Expanded**

- '()' are used as delimiters for the application identifiers. (printed as the HRI character, but not encoded.)
- Be sure to include all the application identifiers in the data.
- If the first data is "01" when an application identifier, left and right parentheses, and \* are excluded, the 14th digit counted from the digit next to "01" is used as the check digit. If the data is incorrect, an error will occur.
- If the number of digits after "01" is less than 14, a check digit is not added.

  (Unlike GS1-128, a symbol "\*" cannot be used for automatic calculation and addition of a check digit. If "\*" is added in the data, it will be ignored and the subsequent data is shifted by one digit.)
- Specify a special character as described below.

Control character	ASCII	HRI character
FNC1	{1	Not printed
Beginning parenthesis for an application identifier	(	( is printed.
Closing parenthesis for an application identifier	)	) is printed.
1,41	{*	Error
Skipped character	*	Not printed
'}'	{{	{ is printed.

### **How to Print**

Open print data file in an application, and specify barcode font, point, and language that you have set on the printer driver, and then print it.



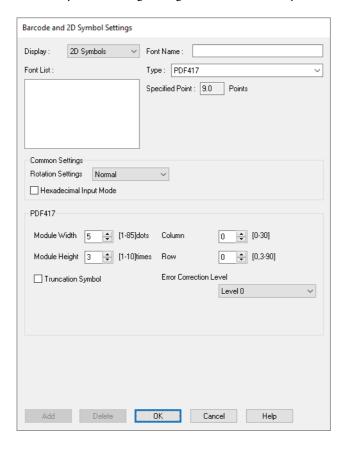
- The barcode size cannot be changed from the point set in [Specified Point]. If you specify a size other than the specified one, the barcode is not printed.
- Some application such as .NET application may not be able to display or let you select the barcode
  font registered by the printer driver. If that occurs, use the [Font Replacement] function of the printer
  driver to replace a True Type font with the barcode font. See "Printing Barcodes / 2D Symbols on .NET
  Environment" on page 103.

# **Printing 2D Symbols**

The printer driver has the built-in 2D symbol font. This allows you to print a 2D symbol without creating it on an application software.

### **Setting the 2D Symbol Font**

You can make the 2D symbol settings using [Barcode and 2D Symbol Settings] on the [Driver Utilities] tab.



### Make the following settings.

- •Display: Select [2D Symbols].
- •Font Name: Enter a character string. The string is set as the 2D symbol font name. Only ASCII characters are accepted.
- •Type: Select a type of 2D symbol. Available setting items changes according to the selected type.
- •Rotation Settings: Select an option to rotate a 2D symbol.
- •Hexadecimal Input Mode: Select the check box to enter data for a 2D symbol in hexadecimal.

### Make the settings for the barcode type you selected.

• Settings for PDF417

\* Module Width: Set module width of PDF417.

For the recommended value, see "Recommended Module Values" on page 98.

\* Module Height: Specify the ratio of PDF417 module height to the module width.

For the recommended value, see "Recommended Module Values" on page 98.

\* Column: Specify the number of columns of PDF417. \* Row: Specify the number of rows of PDF417.

\* Truncation Symbol:

Select the check box to create a symbol using data excluding the stop code of

PDF417.

\* Error Correction Level

Specify an error correction level for PDF417. This allows the symbol data to be correctly read even if a portion of the symbol is missing or damaged. The larger the number is, the higher the possibility of data restoration gets.

Settings for MicroPDF417

\* Module Width: Set module width of MicroPDF417.

For the recommended value, see "Recommended Module Values" on page 98.

\* Module Height: Specify the ratio of MicroPDF417 module height to the module width.

For the recommended value, see "Recommended Module Values" on page 98.

\* Column: Specify the number of columns of MicroPDF417. \* Row: Specify the number of rows of MicroPDF417.

• Settings for QR code

\* Model: Select a QR code model.

\* Module: Select a width of a cell (module) of QR code.

For the recommended value, see "Recommended Module Values" on page 98.

\* Error Correction Level:

Specify an error correction level for QR code. This allows the symbol data to be correctly read even if a portion of the symbol is missing or damaged. The possi-

bility of data restoration gets higher in the order of L, M, Q, and H.

\* Character Mode: Select a mode for data to be converted into a QR code.

• Settings for Micro QR code

\* Version: Specify the version of Micro QR code.

\* Module: Select a width of a cell (module) of Micro QR code.

For the recommended value, see "Recommended Module Values" on page 98.

\* Error Correction Level:

Specify an error correction level for Micro QR code. This allows the symbol data to be correctly read even if a portion of the symbol is missing or damaged. The possibility of data restoration gets higher in the order of L, M.

Settings for MaxiCode

\* Mode: Select a mode of MaxiCode.

• Settings for GS1 DataBar

\* Module: Set module width of GS1 DataBar.

For the recommended value, see "Recommended Module Values" on page 98.

\* Number of Characters: Specify the max width of GS1 DataBar.

Set this if you have selected GS1 DataBar Expanded Stacked.

#### • Settings for AztecCode

\* Type: Select a type of AztecCode.

\* Cell Size: Select a size of a cell (module) of AztecCode.

For the recommended value, see "Recommended Module Values" on page 98.

\* Number of Layers: Specify the number of layers of AztecCode.

\* Error Correction Area:

Select any one of the following error correction area settings for AztecCode. This allows the symbol data to be correctly read even if a portion of the symbol is missing or damaged. The larger the number is, the higher the possibility of data restoration gets.

[Auto]: the default is 23%+3 code words.

[Specify a Percentage]: Enter a percentage of error correction area into the entry

#### • Settings for DataMatrix

\* Symbol Shape: Select a shape of DataMatrix symbol.

\* Error Correction Level:

Specify an error correction level for DataMatrix.

\* Cell Size: Select a size of a cell (module) of DataMatrix.

For the recommended value, see "Recommended Module Values" on page 98.

\* Number of Vertical Cells:

Specify the number of cells of DataMatrix in the vertical direction.

Set this when you have selected [Rectangle] in the DataMatrix [Symbol Shape]

setting.

\* Number of Horizontal Cells:

Specify the number of cells of DataMatrix in the horizontal direction.

Set this when you have selected [Rectangle] in the DataMatrix [Symbol Shape] setting.

[Minimize]: The number of cells is automatically optimized and minimized. [Specify the Size]: The number of cells is set according to the selected size.

### **?** Click [Add].

The configured 2D symbol font is registered and added to the font list.



- Up to 30 2D symbol fonts can be registered.
- To edit settings of a registered 2D symbol font, select the font from the font list, change the settings and then click [Save].
- To delete a registered 2D symbol font, select the font from the font list, and then click [Delete].

### **Recommended Module Values**

The recommended module values vary by paper type, 2D symbol type, and the print direction.



- You cannot change the orientation of a QR code, Micro QR code, and Maxi code by setting [Orientation] on the [Options] tab to [Landscape].
- You cannot rotate a QR code, Micro QR code, and Maxi code by selecting [Rotate 180] on the [Options] tab. In addition, if [Rotation Settings] is set to [Normal] or [Rotate 270 Degrees], the 2D symbol is not be printed.

### 2D Symbols - Stacked code type

☐ When the minimum module size is in units of 300 dpi

		ANSI Grade D or higher		ANSI Grade C or higher					
2D Symbols	Orientation	Plain Paper	Wristband Paper	Matte Paper	Synthetic	Texture Paper	Glossy Paper	Glossy Film	High Glossy Paper
PDF417	-	5	3	3	3	-	3	3	3
Micro PDF	-	5	3	3	3	-	3	3	3
GS1 DataBar Stacked	-	5	3	3	3	-	3	3	3
GS1 DataBar Stacked Omnidirectional	-	5	3	3	3	-	3	3	3
GS1 DataBar Expanded Stacked	-	5	3	3	3	-	3	3	3

### $\Box$ When the minimum module size is in units of 600 dpi

		ANSI Grade D or higher		ANSI Grade C or higher					
2D Symbols	Orientation	Plain Paper	Wristband Paper	Matte Paper	Synthetic	Texture Paper	Glossy Paper	Glossy Film	High Glossy Paper
PDF417	-	10	6	6	6	-	6	6	6
Micro PDF	-	10	6	6	6	-	6	6	6
GS1 DataBar Stacked	-	10	6	6	6	-	6	6	6
GS1 DataBar Stacked Omnidirectional	-	10	6	6	6	-	6	6	6
GS1 DataBar Expanded Stacked	-	10	6	6	6	-	6	6	6



If vibrations or shocks are applied to the printer during transporting or installing the printer, it may cause drop in barcode rank. In that happens, barcode rank may improve by carrying out [Bidirectional Printing Adjustment]. ("Bi-directional Printing Adjustment" on page 189)

# 2D Symbols - Matrix code type

 $\hfill \square$  When the minimum module size is in units of 300 dpi

		ANSI Grade D or higher		ANSI Grade C or higher					
2D Symbols	Orientation	Plain Paper	Wristband Paper	Matte Paper	Synthetic	Texture Paper	Glossy Paper	Glossy Film	High Glossy Paper
QR Code	-	7	5	4	5	-	4	4	4
Micro QR	-	7	6	5	6	-	5	5	5
Aztec	-	7	4	4	4	-	4	4	4
DataMatrix	-	7	4	3	4	-	3	3	3
MaxiCode	-	10	10	10	10	-	10	10	10

 $\Box$  When the minimum module size is in units of 600 dpi

		ANSI Grade D or higher		ANSI Grade C or higher					
2D Symbols	Orientation	Plain Paper	Wristband Paper	Matte Paper	Synthetic	Texture Paper	Glossy Paper	Glossy Film	High Glossy Paper
QR Code	-	13	10	9	10	-	10	10	10
Micro QR	-	13	12	11	12	-	11	11	11
Aztec	-	13	9	9	9	-	9	9	9
DataMatrix	-	13	8	8	8	-	8	8	8
MaxiCode	-	21	21	21	21	-	21	21	21



If vibrations or shocks are applied to the printer during transporting or installing the printer, it may cause drop in barcode rank. In that happens, barcode rank may improve by carrying out [Bi-directional Printing Adjustment]. ("Bi-directional Printing Adjustment" on page 189)

## **Specifying Data of 2D Symbols**

See the following descriptions to specify 2D symbol data.

#### PDF417 / MicroPDF417

- If the number of columns and rows is 0, they are automatically calculated.
- When specifying a number other than 0, specify the numbers so that multiplying the columns by the rows equals 928 or lower.

#### **QR Code**

• According to the data size, the version is automatically changed to the version appropriate to the size.

#### Micro QR Code

• The size is automatically determined.

#### MaxiCode

• Specify a special character as described below.

Control character	Hexadecimal
SHIFT	0x7B, 0x53
CODE B	0x7B, 0x42
CODE C	0x7B, 0x43
FNC1	0x7B, 0x31
FNC2	0x7B, 0x32
FNC3	0x7B, 0x33
FNC4	0x7B, 0x34

### **DataMatrix**

• If data immediately after { does not apply to any one of the followings, an error will occur.

Control character	ASCII		
FNC1	{1		
'{'	{{		

#### GS1 DataBar Stacked / GS1 DataBar Stacked Omnidirectional

- Do not include the application identifier "01" in the beginning of data.
- You do not need to add a check digit in the data.
- Printing the 2D symbol with a composite symbol is supported. When printing the 2D symbol with a composite symbol, use "\|" or "\\" to separate the barcode data from the data for the composite symbol. First enter data for the composite symbol, then enter data for the 2D symbol.

### **GS1 DataBar Expanded Stacked**

- Multiple GS1 DataBar Expanded barcodes can be stacked. The way to specify the data is the same with that for GS1 DataBar Expanded. For details, see "GS1 DataBar Expanded" on page 93.
- Printing the 2D symbol with a composite symbol is supported. When printing the 2D symbol with a composite symbol, use "\|" or "\\" to separate the barcode data from the data for the composite symbol. First enter data for the composite symbol, then enter data for the 2D symbol.

#### **AztecCode**

• Both the full range mode and the compact mode are supported.

### **How to Print**

Open print data file in an application, and specify 2D symbol font, point, and language that you have set on the printer driver, and then print it.



- The 2D symbol font size cannot be changed from the point set in [Specified Point]. If you specify a size other than the specified one, the 2D symbol is not printed.
- Some application such as .NET application may not be able to display or let you select the 2D symbol font registered by the printer driver. If that occurs, use the [Font Replacement] function of the printer driver to replace a True Type font with the 2D symbol font. See "Printing Barcodes / 2D Symbols on .NET Environment" on page 103.

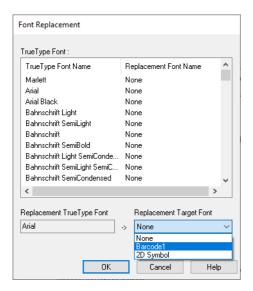
## Printing Barcodes / 2D Symbols on .NET Environment

Since .NET Framework supports only True Type fonts and Open Type fonts, barcode or 2D symbol fonts registered in the printer driver cannot be printed. To solve the problem, use the [Font Replacement] function of the printer driver to replace a True Type font with the barcode or 2D symbol font. Then you can print the barcode or 2D symbol fonts from an application on .NET Framework environment.

On the application, font name of the replaced True Type font is displayed, however, when the data is printed, the barcode or 2D symbol is printed.

### **Font Replacement**

To set font replacement, open the printer driver, select [Driver Utilities] tab, and then select [Font Replacement].



### **1** Make the following settings.

- •Replacement True Type Font
  - \* Select a True Type font you want to substitute.
- •Replacement Target Font
  - \* Select a barcode or 2D symbol font you wan to use.

### Click [OK].

The True Type font is replaced with the barcode or 2D symbol font.

# **Printing Barcodes/2D Symbols**

In the print data file, specify the True Type font that you replaced with the barcode or 2D symbol font, and specify the point and language.



- The point of barcode or 2D symbol is predetermined. Check the point in the [Barcode and 2D Symbol Settings] on the [Driver Utilities] window. If you specify a value other than the specified one, the barcode or 2D symbol is not printed.
- You cannot use the replaced True Type font for data other than barcode or 2D symbol data. If you use the font for other characters, the characters will not be printed. Therefore, make sure to select a True Type font that you do not use for printing data other than barcodes or 2D symbols.

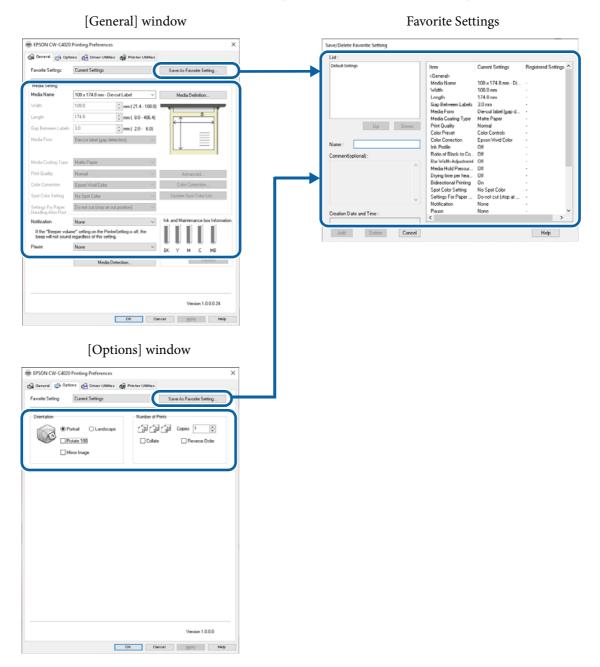
# **Favorite Settings**

The Favorite Settings function allows you to register and manage print settings of the printer driver.



Note that this function is completely different from the [Favorite Setting] available from the control panel of the printer, and they are not compatible with each other.

The print settings include the settings available on the [General] and [Options] windows. Various settings such as paper type, paper layout, user-defined paper settings are included in the print settings.



#### **Features**

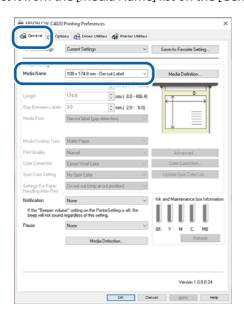
- When printing from an application, the registered print settings can be set as default print settings. After you make print settings, click [Save as Favorite Setting] to register the print settings.
- Many sets of print settings can be registered in [Favorite Settings].
   If you frequently use multiple sets of print settings due to use of different sizes or types of paper or other reasons, register each set of the print settings to [Favorite Settings] so that you can complete print settings just by selecting the set from the [Favorite Settings] list. This also allows you to prevent misprint due to wrong print settings.

(If you change paper type or size, you may need to change the [Media Detect] setting of the printer.)

### **Registering Print Settings in [Favorite Settings]**

Make the print settings to match them with the paper you use.

Configure the print settings on the [General] and [Options] windows. When using a user-defined paper, select it from the [Media Name] list on the [General] window.

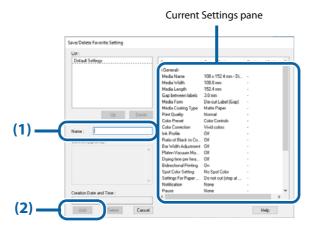




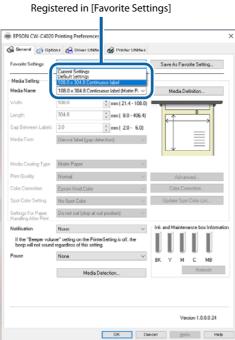
**2** Click [Save as Favorite Setting]. The Save/Delete Favorite Setting screen appears. The current settings are displayed on the right side of the screen.

3 Enter a name of the settings in the [Name] field, and then click [Add].

The Save/Delete Favorite Setting screen is closed.



Check that the name of the added print settings is displayed in the list of [Favorite 4 Settings].



The [Favorite Settings] includes the following settings.

• Default Settings: The printer driver has these settings by default.

• Current Settings: The settings currently configured on the [General] and [Options] windows.

You can check the settings on the [Show Settings] screen and on the [Save/Delete

Favorite Setting] screen.

• Registered Settings: Print settings registered by the user.

### **User Defined Information**

The following information is included in User Defined Information.

- User-defined paper settings
- Registered barcode font settings
- Font replacement settings for .NET environment

The user defined information is set on each client computer.

If multiple printer drivers have been installed on one computer, the information can be shared between the multiple printer drivers.

## **Exporting/Importing Printer Driver Settings**

You can export Favorite Settings, user defined information, and Driver Preferences settings to a BSF file (the extension is .BSF). By importing the exported BSF file, the same settings can be applied to the printer driver on another computer.



- Note that the [Favorite Settings] function on the printer driver is completely different from the [Favorite Setting] function of the printer. It is impossible to include the [Favorite Setting] of the printer in the printer driver settings file.
- In order to avoid problems caused by importing settings from different models, the model name is stored in the BSF file, and the model name is checked during import. Therefore, settings can be exported/imported only with the same model name.

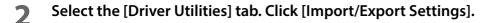
## **Exporting Settings File**

Export the settings file following the steps below.

1 Check that the set of print settings you want to export has been registered in [Favorite Settings]. If multiple sets of print settings have been registered in [Favorite Settings], only a set of print settings listed at the top of the [Favorite Settings] list is exported.



- To change the order in the [Favorite Settings] list, open the Save/Delete Favorite Setting screen, select a set of print settings, and then click [UP] or [Down].
- If no set of print settings has been registered in [Favorite Settings], default print settings of the printer driver is exported.



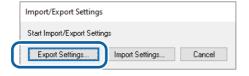




Export in a BSF file from the current settings. If you export it from the general setting, a different content will be exported.

- Current Settings:

  Properties of the printer driver [General] [Printing References] [Driver Utilities] [Import/ Export Settings]
- General setting:
   Properties of the printer driver [Advanced] [Printing Defaults] [Driver Utilities] [Import/ Export Settings]
- **The Import/Export Settings window appears. Click [Export Settings].**



- 4 A window to save the settings file appears. Save the BSF file under a new file name.
- **5** The process completion screen appears. Click [OK].



To the BSF file, a set of print settings registered in [Favorite Settings] is exported. Print settings displayed in the [Current Settings] are not exported.

## **Importing Settings File**



When the BSF file is imported to the printer driver, the printer driver settings are overwritten with the imported settings. If you keep the following settings unchanged, create BSF files to include them.

- List of Favorite Settings
- List of user-defined paper settings
- List of barcode fonts
- List of font replacement for barcode

Import the settings file following the steps below.

- Select the [Driver Utilities] tab. Click [Import/Export Settings].
- The Import/Export Settings window appears. Click [Import Settings].
- **A** confirmation window appears. Click [OK].
- **1** The window to open a file appears. Select the file to be imported.
- The process completion screen appears. Click [OK].

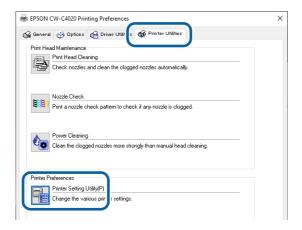
# Starting PrinterSetting from the Printer Driver

Start PrinterSetting from the printer driver following the steps below.

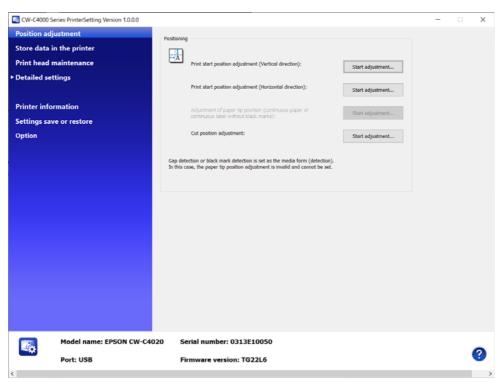


If you start PrinterSetting with this procedure, some settings will not be available. ("PrinterSetting (Windows)" on page 167)

- Open the printer driver window.
- Select the [Printer Utilities] tab. Click [Printer Settings].



The CW-C4XXX PrinterSetting screen appears.



### Speeding Up Printing using High Speed Batch Label Printing Function

The [High speed batch label printing] function allows you to print a large number of labels faster. Before using the function, read and understand "Restrictions" on page 113.

To get the latest version of the printer driver see "How to Get Software" on page 333.

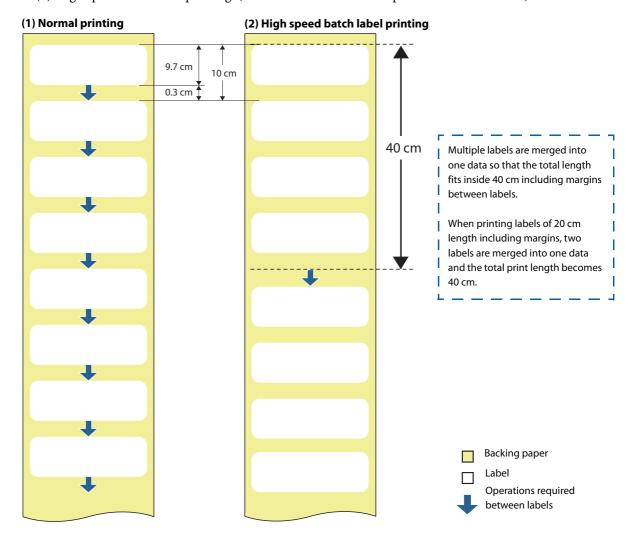
### **Overview of the Function**

When printing labels without using the [High speed batch label printing] function (normal printing), label data is sent one by one to the printer even when printing multiple copies of the same label. Each time one label is printed, the printer needs to conduct operations required between labels such as leaving a space.

When the [High speed batch label printing] function is enabled, the printer driver merges multiple labels so that the total length fits inside 40 cm and sends it to the printer as one data. This reduces time required for operations between labels, so the total time required for printing labels is reduced.

#### Example: When printing 100 copies of 9.7 cm length label with 0.3 cm margin between labels

- (1) Normal printing: (Print 1 label + Operation between labels) x 100 times
- (2) High speed batch label printing: (Print 4 labels at a time + Operation between labels) x 25 times



#### Restrictions

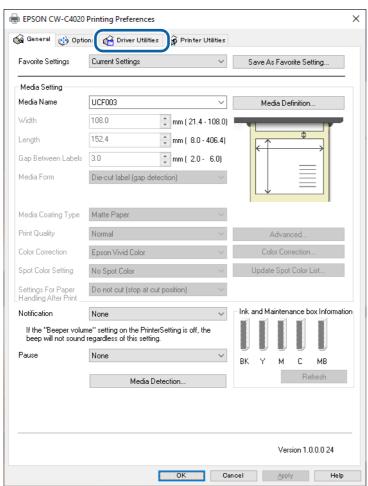
The following describes restrictions on using [High speed batch label printing].

- Accuracy of print position in the paper feed direction may be lowered.
- You cannot use functions that are designed to operate for each single label on an application.
- Both [Cut] and [Do not cut] options in [Settings For Paper Handling After Print] do not work normally.
- The [Notification] and [Pause] settings do not work normally.
- Compared to normal printing, it takes longer to start printing since this batch print function merges multiple labels into one data.
- If a paper jam occurs, you may lose multiple labels at a time. In addition, multiple labels will be printed when the printer recovers from the error.
- Multiple labels merged into up to 40 cm length data is counted as one copy.
- You cannot stop the printer at a position between labels by pressing the Pause button on the printer.

#### How to Set

Follow the procedure below to enable [High speed batch label printing].

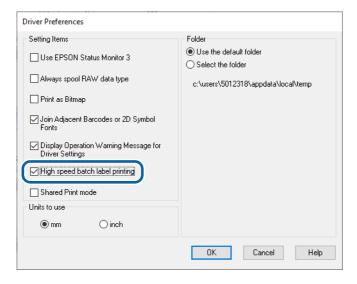
- 1 Open the printer driver window.
- Click the [Driver Utilities] tab.



## **?** Click [Driver Preferences].



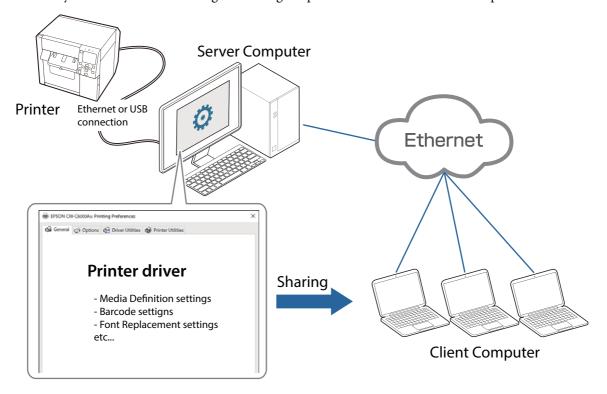
▲ Select the checkbox for [High speed batch label printing], and then click [OK].



From next time you print labels, multiple labels are automatically merged into up to 40 cm length data and then printed.

# **Sharing the Printer Driver**

The printer driver installed on a server can be shared and used by multiple client computers. Since the clients can use the printer driver settings made on the server, various printing settings can be shared easily. This saves you the trouble of installing and setting the printer driver on each client computer.





Depending on configuration of your system, starting PrinterSetting (Page 167) from the printer driver is disabled. "Restrictions on using PrinterSetting" on page 138



Ethernet connection allows you to control multiple printers if they are connected to the same network as the server computer.

Follow the steps below to enable sharing of the printer driver. For details of each step, see the linked page.

### **Procedure on a Server Computer**

1. Install the printer driver (Page 49)

The installation procedure is the same as the normal installation procedure.

- 2. Set up sharing settings on Windows [Devices and Printers] (Page 117)
- 3. Enable Shared Print mode on the printer driver (Page 119)
- **4.** Add new settings such as user-defined paper (Media Definition) on the printer driver See "User-Defined Paper" on page 79, "Printing Barcodes" on page 84, or other pages as necessary.
- 5. Change the default settings of the printer driver ( Page 122)

Change the default printer driver settings to frequently used settings.

### **Procedure on a Client Computer**

- 1. Connect to the server computer (Page 125)
- 2. Check the settings of the shared printer driver (Page 132)

Check that the settings made at step 3 to 5 of "Procedure on a Server Computer" are correctly applied.



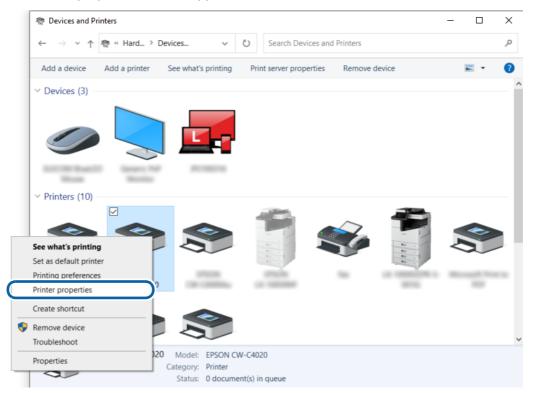
- When you add new settings to the printer driver such as user-defined paper (Media Definition) or barcode font, make sure to add them after enabling [Shared Print mode]. The settings you added before enabling [Shared Print mode] become disabled because save location of the settings files is changed when the mode is enabled.
- If you log in to the server or client computer with user privileges after setting up sharing settings, adding, editing, or deleting operations for the following functions are disabled because shared information is write-protected. Log in to the computer with administrator privileges.
  - Media Definition settings
  - Barcode and 2D Symbol Settings
  - Font Replacement
  - Favorite Settings

## **Procedure on a Server Computer**

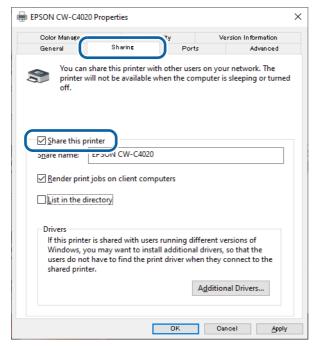
**Setting up Sharing Settings on Windows [Devices and Printers]** 

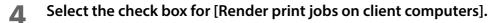
- 1 Open [Devices and Printers].
- Right-click the icon of the printer to be shared and then click [Printer properties].

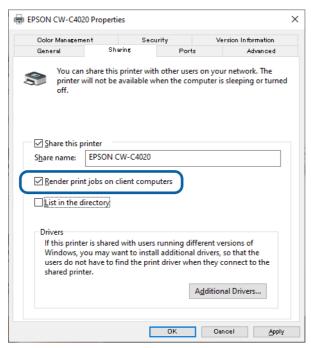
  The Printer properties window appears.



3 Click the [Sharing] tab, and then select the check box for [Share this printer].



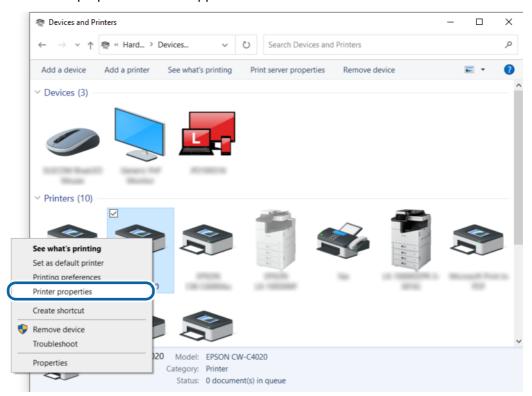




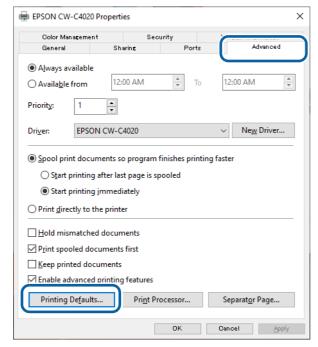
# 5 Click [OK].

### **Enabling Shared Print Mode on the Printer Driver**

- Open [Devices and Printers].
- **Right-click the icon of the printer to be shared and then click [Printer properties].**The Printer properties window appears.



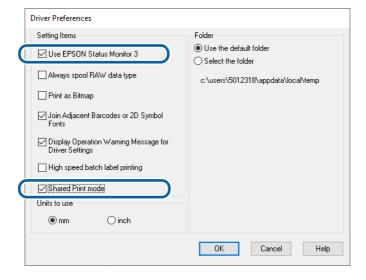
**?** Click the [Advanced] tab, and then click [Printing Defaults...].



When print settings window appears, select the [Driver Utilities] tab, and then click [Driver Preferences].



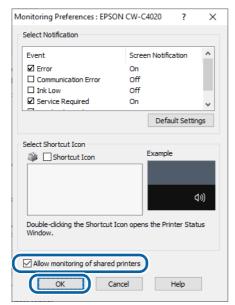
On the "Driver Preferences" window, select the check box for [Use EPSON Status Monitor 3] and [Shared Print mode].





The [Use EPSON Status Monitor 3] function can be set with administrator privileges.

- Click [OK] to return to the previous print settings window.
- **7** Click [Monitoring Preferences] on the "Driver Utilities" tab. The "Monitoring Preferences" window appears.
- Select the check box for [Allow monitoring of shared printers], and then click [OK].



When the print settings window reappears, click [OK].

The [Shared Print mode] setting is enabled from the next time you open the print settings window of the printer driver.

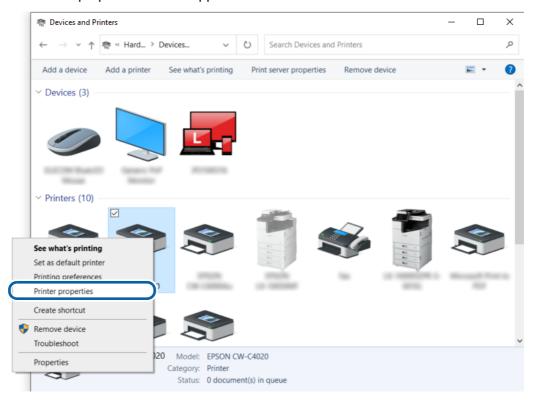
### **Changing the Default Settings of the Printer Driver**

You can change the default settings of the printer driver to frequently used settings such as selecting paper you added at [Media Definition]. This saves you the trouble of changing the settings each time you print.

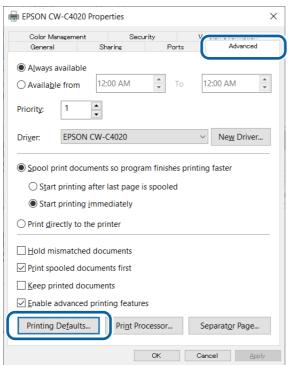
If necessary, first add [Media Definition] settings ("User-Defined Paper" on page 79), barcode font ("Printing Barcodes" on page 84), or other settings, and then follow the procedure below to change the default settings.



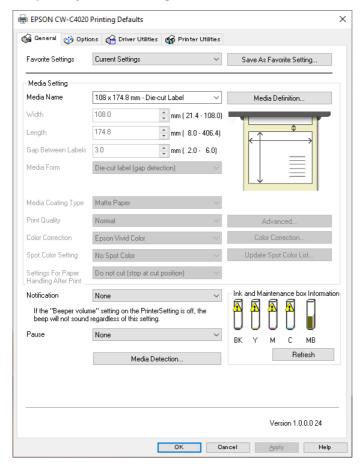
- When you add new settings to the printer driver such as user-defined paper (Media Definition) or barcode font, make sure to add them after enabling [Shared Print mode]. The settings you added before enabling [Shared Print mode] become disabled because save location of the settings files is changed when the mode is enabled.
- If you log in to the server or client computer with user privileges after setting up sharing settings, adding, editing, or deleting operations for the following functions are disabled because shared information is write-protected. Log in to the computer with administrator privileges.
  - Media Definition settings
  - Barcode and 2D Symbol Settings
  - Font Replacement
  - Favorite Settings
- Open [Devices and Printers].
- **Right-click the icon of the printer to be shared and then click [Printer properties].**The Printer properties window appears.







When the print settings window appears, change paper and other settings to frequently used settings.



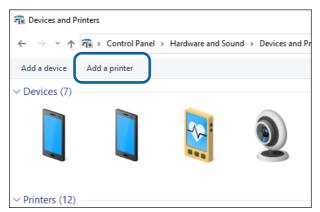
When finished, click [OK] to save the changes.

From the next time you open the printer driver, the print setting you made here will be reflected.

# **Procedure on a Client Computer**

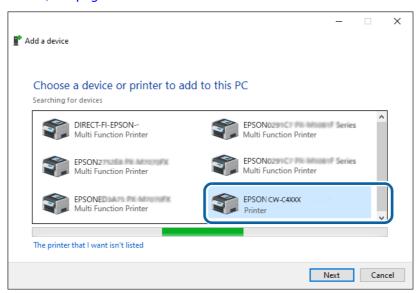
#### **Connecting to the Server Computer**

1 Open [Devices and Printers] and then click [Add a printer] on the menu bar. Searching for a printer is started.

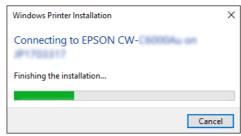


When the target printer is displayed, click on it.

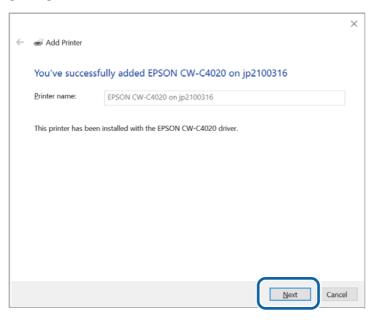
If the printer is not displayed, go to "Connecting to the Server Computer (When the Printer is Not Found)" on page 128.



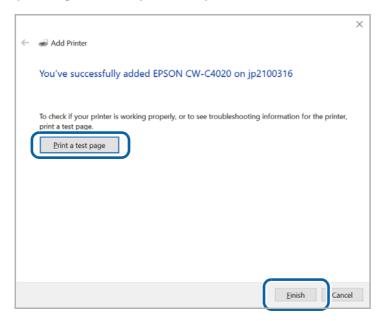
**3** Wait until installation of the printer driver is finished.



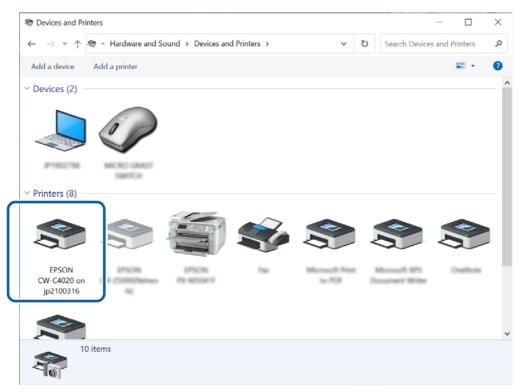
When the installation finishes successfully, the window below is displayed. Click [Next].



The window shown below is displayed. Click [Print a test page] to test whether printing from the printer is possible, or click [Finish] to finish.



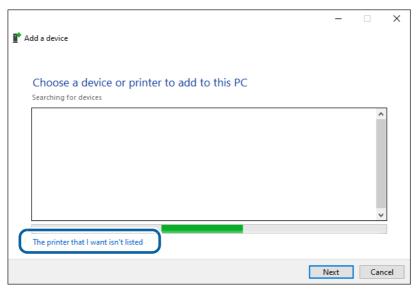
Open [Devices and Printers] again to check that the printer has been added in the window.



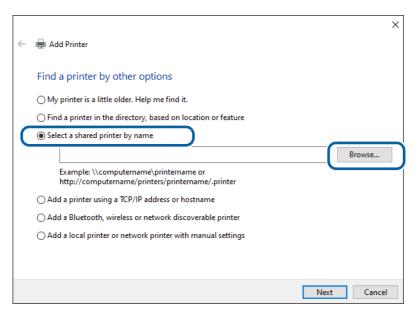
### Connecting to the Server Computer (When the Printer is Not Found)

If the printer is not displayed after clicking the [Add a printer] menu in [Devices and Printers], follow the procedure below.

Click [The printer that I want isn't listed] at the bottom of the printer search window.

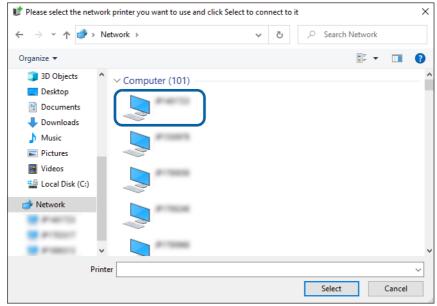


When the window shown below appears, select [Select a shared printer by name] and then click [Browse].



3 When the server computer is displayed under [Network], click on it.

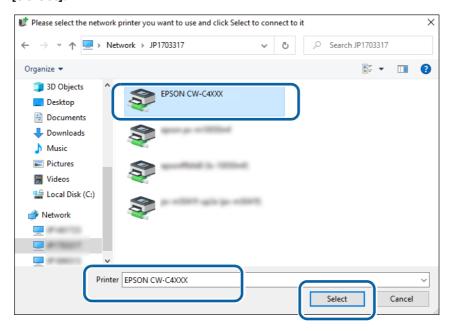
All devices shared on the server computer are listed.



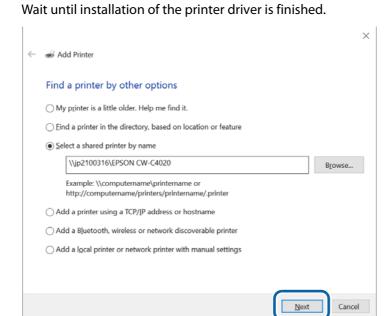


If network discovery has been disabled on the computer, change the setting to enable network discovery.

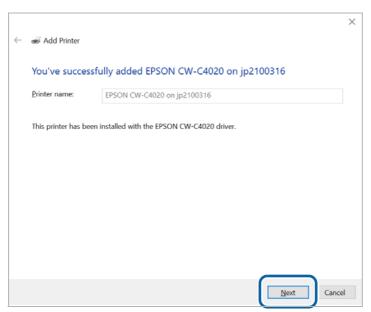
Click on the target printer. Check that the printer name is correct, and then click [Select].



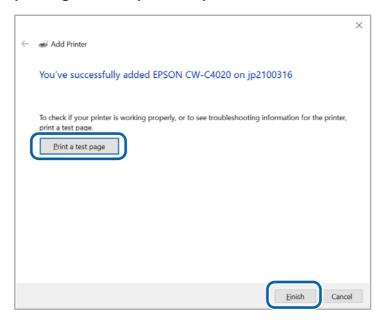
5 When the window shown below is displayed, click [Next].



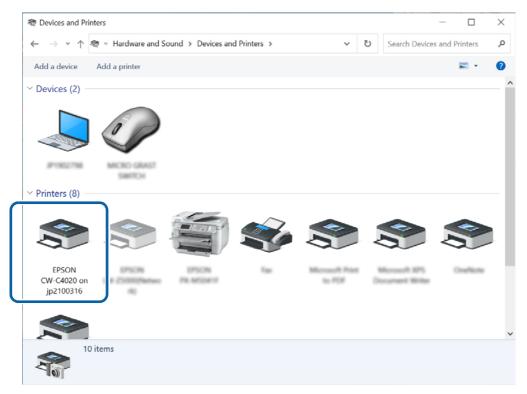
When the installation finishes successfully, the window below is displayed. Click [Next].



7 The window shown below is displayed. Click [Print a test page] to test whether printing from the printer is possible, or click [Finish] to finish.



Open [Devices and Printers] again to check that the printer has been added in the window.



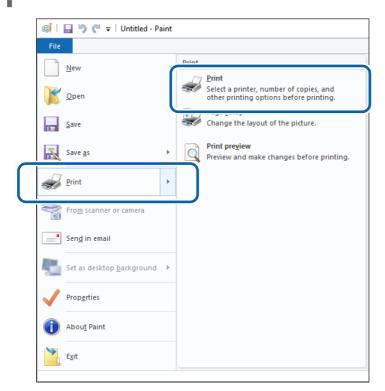
### **Checking the Settings of the Shared Printer Driver**

There are the following two methods for checking the printer driver settings.

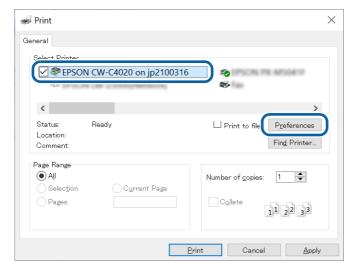
- Open the printer driver window from application software you use and check the settings (Page 132)
- Open the printer driver window from [Devices and Printers] and check the settings (Page 135)

#### ☐ Checking the Settings from Application Software, taking Paint for example

Select [Print] from the [File] menu.

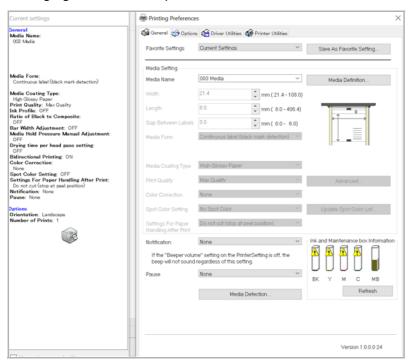


In the "Print" window, select the target printer and then click [Preferences]. The printer driver print settings window is displayed.

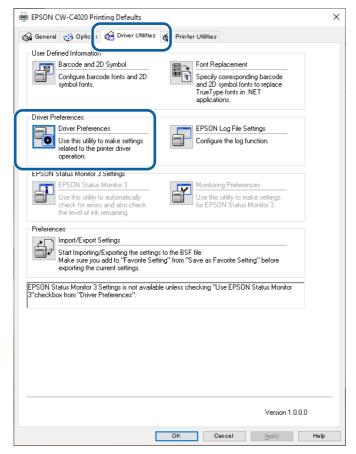


# **3** Check the print settings.

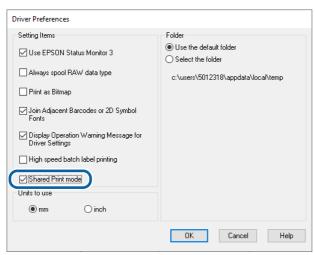
Check that the settings such as the selected media (paper) are the same as those you made at "Changing the Default Settings of the Printer Driver" on page 122. When finished checking the settings, go to the next step.



Select the [Driver Utilities] tab, and then click [Driver Preferences].

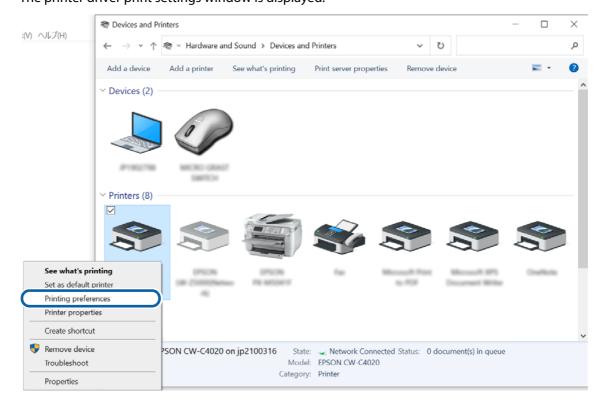


On the "Driver Preferences" window, check that the check box for [Shared Print mode] has been selected.



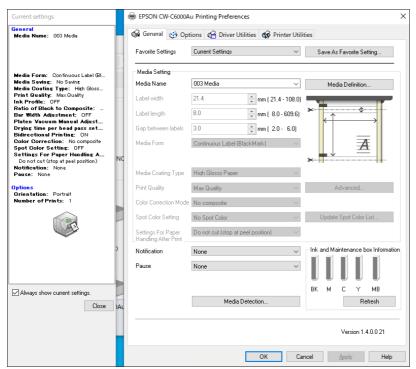
### ☐ Checking the Settings from [Devices and Printers]

- Open [Devices and Printers].
- **Right-click on the target printer, and then click [Printing preferences].**The printer driver print settings window is displayed.

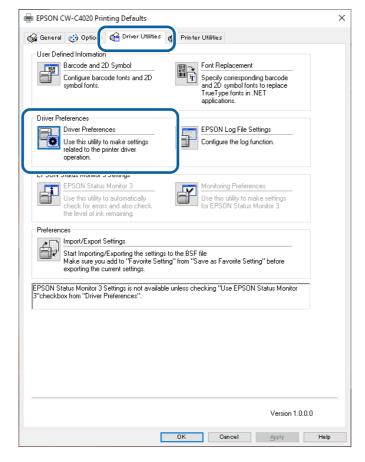


## **?** Check the print settings.

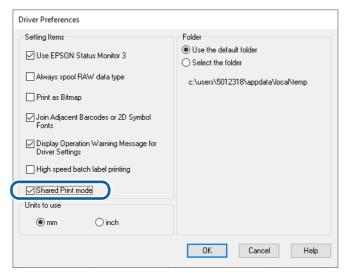
Check that the settings such as the selected media (paper) are the same as those you made at "Changing the Default Settings of the Printer Driver" on page 122. When finished checking the settings, go to the next step.



Select the [Driver Utilities] tab, and then click [Driver Preferences].



On the "Driver Preferences" window, check that the check box for [Shared Print mode] has been selected.



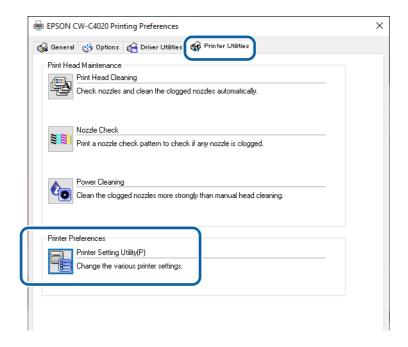
- 6 Click [Cancel] to close the "Driver Preferences" window and return to the previous print settings window.
- **7** Click [Cancel] or click [X] at the upper right corner to close the print settings window.



Do not click [OK] to close the print settings window that was displayed from [Devices and Printers] on a client computer. If you click [OK], the settings are saved on the client computer and the link with the server computer is disconnected.

# **Restrictions on using PrinterSetting**

Depending on configuration of your system, starting PrinterSetting (Printer Settings Utility) from the "Printer Utilities" tab is disabled.



The table below shows system configuration examples and their restrictions on using PrinterSetting.

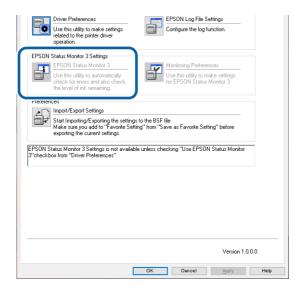
System Configuration	Starting PrinterSetting	
	Server Computer	Client Computer
The printer is connected to the server computer via USB. The server and the client computers are connected via Ethernet.		
Ethernet  USB connection  Client computer  Server computer  Printer	Possible	Not possible
The printer, the server, and the client computers are connected via Ethernet.  Ethernet  Client computer Server computer Printer	Possible	Possible after installing PrinterSetting application

## **Setting EPSON Status Monitor 3**

EPSON Status Monitor 3 displays a pop-up window to inform you specified paper type and ink levels when you start printing. In addition, if a fatal error occurs, it displays an error window. It is disabled by default.

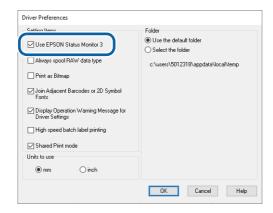
### **Enabling/Disabling EPSON Status Monitor 3**

By default, EPSON Status Monitor 3 is disabled.

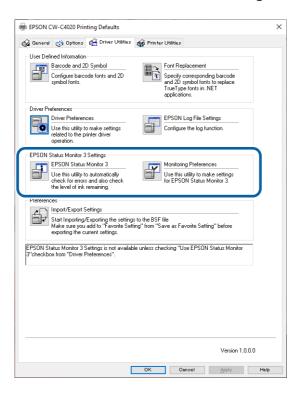


Follow the procedure below to enable EPSON Status Monitor 3.

- 1 Turn the printer on.
- **2** Open the printer driver window.
- 3 Select the [Driver Utilities] tab and then click [Driver Preferences] in the Driver Preferences field.
- The Driver Preferences window appears. Select the check box for [Use EPSON Status Monitor 3], and then click [OK].



In the [EPSON Status Monitor 3 Settings] field on the [Driver Utilities] window, [EPSON Status Monitor 3] and [Monitoring Preferences] are displayed.

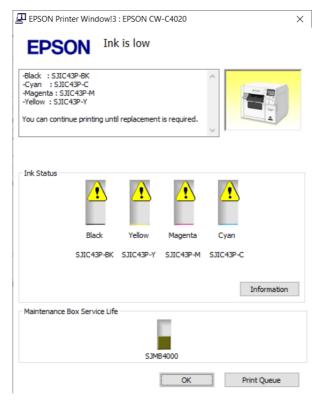


## **Using EPSON Status Monitor 3**

When EPSON Status Monitor 3 is enabled, the following functions become available.

- A window to inform you the printer status and ink levels is automatically displayed when you start printing.
- You can check the consumables information on the General tab of the printer driver.
- When an error occurs during printing, the error information is displayed.

  IF an error occurs on the printer while it is not printing, EPSON Status Monitor 3 does not start.
- You can start EPSON Status Monitor 3 anytime by clicking its icon on the task bar. For information on how to display the icon, refer to "Displaying the Icon" on page 144.

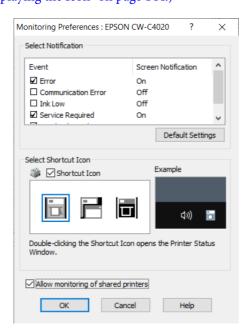




**EPSON Status Monitor 3 window** 

Icon on the task bar

• You can set the following in the [Monitoring Preferences] settings. Display the EPSON Status Monitor 3 icon on the task bar. (See "Displaying the Icon" on page 144.)

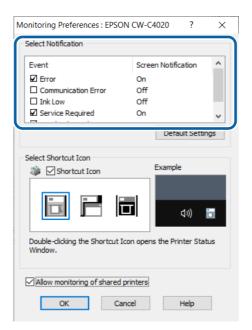


## **Error Notification Settings**

Follow the procedure below to change the error notification settings of EPSON Status Monitor 3.

- Turn the printer on.
- Open the printer driver window.
- Select the [Driver Utilities] tab and then click [Monitoring Preferences].

  If you have not enabled EPSON Status Monitor 3, [Monitoring Preferences] is not displayed. Enable EPSON Status Monitor 3 referring to "Enabling/Disabling EPSON Status Monitor 3" on page 139.
- The Monitor Preferences window appears. Select the check boxes for the items that you want to be notified, and then click [OK].



•Error: When paper/ink replacement is required (Default: Screen Notification

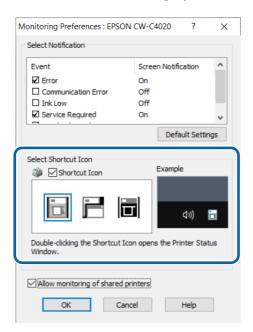
[On])

Communication Error: When the printer power is off (Default: Screen Notification [Off])
 Ink Low: When the ink amount is low (Default: Screen Notification [Off])
 Service Required: When a printer error occurs (Default: Screen Notification [On])
 Nozzle Clogged Warning: When the nozzles get clogged (Default: Screen Notification [On])

### Displaying the Icon

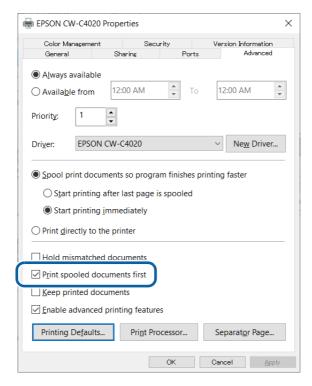
You can set to show the icon on the task bar, and check the printer status by clicking the icon. The icon is not displayed by default. Follow the procedure below to display the icon.

- Turn the printer on.
- Open the printer driver window.
- Select the [Driver Utilities] tab and then click [Monitoring Preferences].
- The Monitor Preferences window appears. Select the check box for [Shortcut Icon], and then select an icon image you want to display on the task bar. Click [OK].



### **Restrictions on Using the Printer Driver**

- Keep the Bidirectional Printing function enabled. It can be set in [Advanced] that is a sub menu of [Print Quality] in [Media Settings].
- The printer driver does not support printing a background image.
- To print multiple print jobs in time order, disable [Print spooled document first]. If the printer driver receives multiple print jobs with [Print spooled document first] enabled, the print jobs may not be printed in time order.



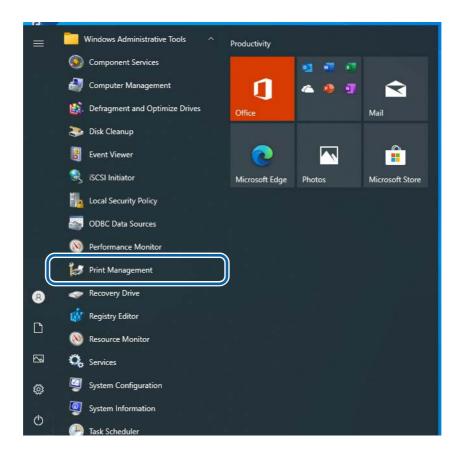
- When using Epson printer driver, do not change the control prefix, the format prefix, and the delimiter string that are included in ESC/Label command from their defaults. If you change them, printing will not be performed or result in producing unintended printouts.
  - For their default settings, see "Operation Panel Settings" on page 208 and find [Printer Settings] [Print Settings] [Command Character].

# **Isolating the Printer Driver**

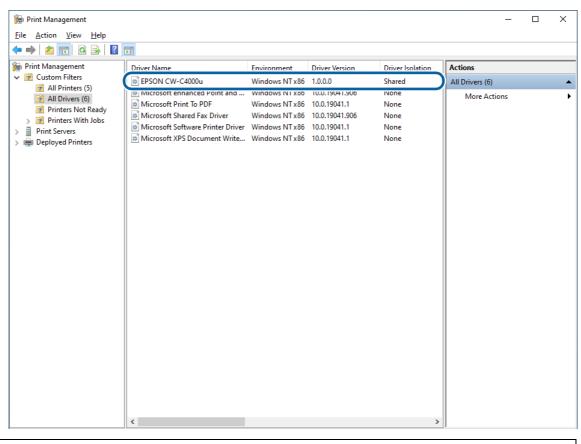
You can improve the reliability of the Windows print service by running the printer driver in a separate process from the process that runs the print spooler. This is available by using the isolation function.

Follow the procedure below to enable the isolation of the printer driver.

### Select [Start] – [Windows Administrative Tools] – [Print Management].



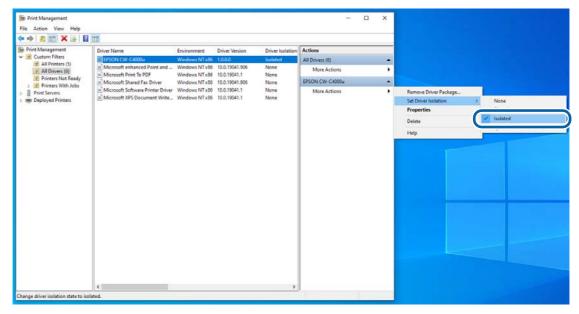
### Trom [Driver Name], select [EPSON CW-C4000u].





The above step is an example when your printer name is "EPOSN CW-C4000u".

### Select [Actions] – [More Action] – [Set Driver Isolation] – [Isolated].



# **Printer Driver for Mac**

This chapter describes how to operate the printer driver for Mac.

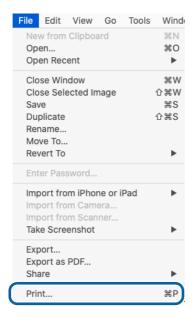
The printer driver is software to control the printer in accordance with the print instructions of application software.

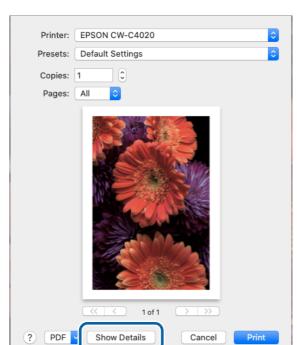
Setting the print settings in the printer driver screen enables you to obtain the best print results. Furthermore, you can also use the utilities to check the printer status and perform maintenance.

#### **Basic Procedure for Printing**

- Turn on the printer, and then load paper in the printer. ("Loading Paper" on page 53)
- 2 Create data to print on an application software, then select the [File] menu and click [Print].

The following screenshots are from Preview of Mac OS X.



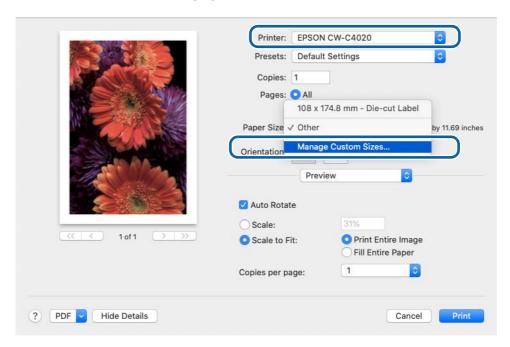


**?** Click [Show Details] (or **.** on the bottom of the screen.

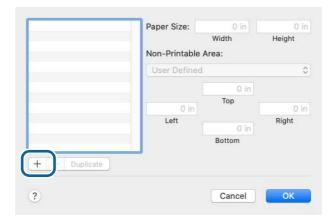


If page settings are not displayed in the print dialog, click the "page settings" option (e.g., Page Setup) in the File menu.

Check that this printer is selected, and then set the paper size. Select [Custom] to set a custom paper size.



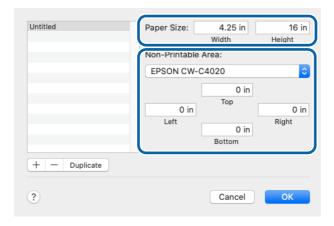
### Click [+] to add a new set of paper size settings.



**6** Enter paper size and make the margin setting of the printer.

Paper Size: Enter label (page) size..

Non-Printable Area: Enter "0" in all the left, right, top and bottom fields.



**7** Click [Untitled] and enter a name for the custom size, and then click [OK].

The new paper size is applied to the printer driver.

Change the other settings to make them suitable for your label paper.

The following introduces setting menus that are unique to the printer. For the explanation of the other menus, refer to the Help.

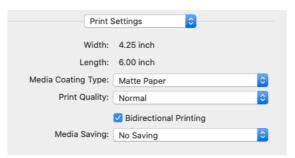


- To change the paper source setting of the printer, change it using Epson Label Printer Utility. ("Epson Label Printer Utility" on page 156)
- You can change the default [Media Coating Type] setting of the printer driver following the procedure below.
  - 1. From the Apple menu, select [System Preferences] [Printers & Scanners].
  - 2. Select the printer, and then click [Options & Supplies] [Option].
  - 3. Change the setting.
- If setting menus described here are not displayed in the list, the dedicated printer driver for this printer has not been added.

Add the dedicated printer driver following the procedure in "Selecting the Dedicated Printer Driver" on page 153.

#### 1 Print Settings

Select the type of paper you use. For the other settings, refer to the Help.

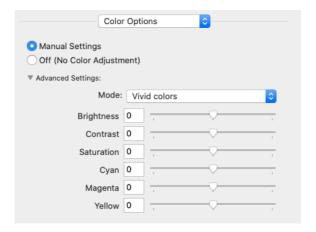




When printing on die-cut labels, set [Media Saving] to [No Saving]. Setting to the other option may cause the print position to shift.

#### 2 Color Options

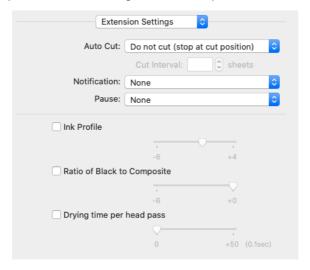
This menu is enabled if you have selected [EPSON Color Controls] in the [Color Matching] menu. You can adjust color settings such as brightness and saturation. For more details, refer to the Help. For information on color correction, see "Color Correction" on page 229.



#### 3 Extension Settings

You can change the following settings; auto cut setting, buzzer (notification) setting, pause setting, ink profile, ratio of black to composite, and ink drying time.

For explanation of each setting, refer to the Help.





If you print without selecting the check box for [Ink Profile], [Ratio of Black to Composite], and [Drying time per head pass], those settings configured on the printer are applied. The gray out settings shown on the driver screen are not showing the actual settings, but they are default settings of the printer driver.



- You can change the driver's default setting of [Auto Cut] (the auto cutter model only), [Notification], and [Pause] following the procedure below.
  - 1. From the Apple menu, select [System Preferences] [Printers & Scanners].
  - 2. Select the printer, and then click [Options & Supplies] [Option].
  - 3. Change the setting.
- If you increase the ratio of black ink, be careful not to touch the printed surface immediately after printing because ink can adhere to your fingers.

### Check the print settings, and then click [Print] to start printing.

## **Selecting the Dedicated Printer Driver**

If the menus described in "Basic Procedure for Printing" are not displayed, select the printer driver dedicate for this printer in [Printer]. The dedicated printer driver is displayed as follows.

- When connecting via USB EPSON CW-C4XXXX
- When connecting via a network EPSON CW-C4XXXX-YYYYYY

"XXXX" is the product model number. "YYYYYY" is the last six digits of the MAC address.



Depending on the OS version, the MAC address may not be displayed even when the printer is connected via a network.

If the dedicated printer driver is not displayed in the list, add it following procedure below.

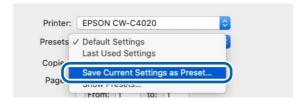
- **1** From the Apple menu, select [System Preferences] [Printers & Scanners].
- Click [+] and select [Add Printer or Scanner].
- When the list of devices appears, select the dedicated printer driver and then click [Add].

### **Customizing the Printer Driver**

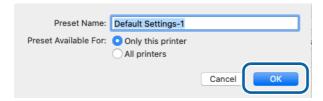
You can save frequently used sets of settings (paper size and other print settings) as Presets under a new name. This allows you to easily apply exactly the same settings repeatedly.

#### **Saving Settings as Preset**

- Make the paper size and other print settings to save them as a preset.
- **7** From the [Presets] menu, select [Save Current Settings as Preset].



**2** Enter a name, and then click [OK].





Select [All printers] in [Preset Available For] to allow selection of the preset from all printer drivers installed on your computer.

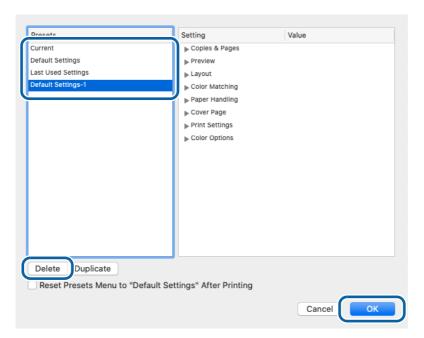
The set of settings is saved in [Presets]. You can select it from the [Presets] menu from the next time.

# **Deleting from Presets**

Click [Show Presets...] in [Presets] of the Print dialog box.



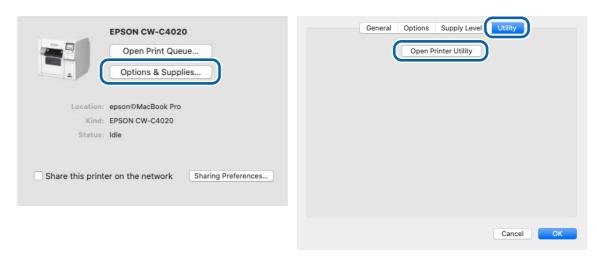
Select the preset you want to delete, click [Delete], and then click [OK].



## **Epson Label Printer Utility**

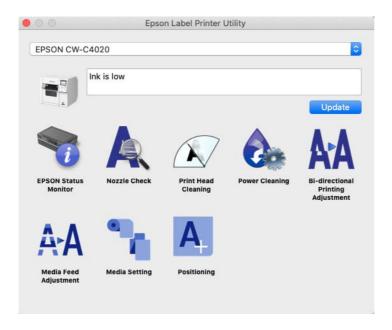
Epson Label Printer Utility allows you to start EPSON Status Monitor, to run a nozzle check and print head cleaning, and to make adjustments. In addition, [Media Setting] and [Positioning] allow you to change those settings of the printer from the computer.

- 1 From the Apple menu, select [System Preferences] [Printers & Scanners], and then select the dedicated printer driver for this printer.
- Click [Options & Supplies] [Utility] [Open Printer Utility].



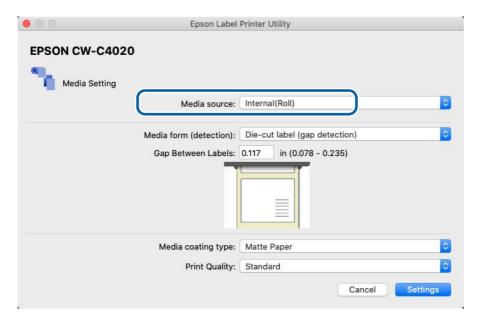
**2** Epson Label Printer Utility starts.

Click an icon of the function you want to use. The function window appears. For more details, follow the instructions displayed on the window.



# **Changing the Paper Source Setting**

To change the paper source setting (internal roll or external feed), select [Media Setting] of the Epson Label Printer Utility and change the [Media source] setting.



## **Printer Driver for Linux**

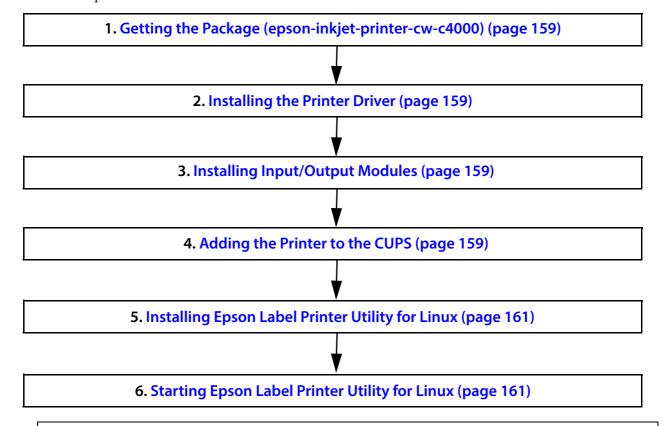
This section describes how to install the printer driver and how to configure Epson Label Printer Utility for Linux. Epson Label Printer Utility for Linux allows you to start EPSON Status Monitor, run a nozzle check and print head cleaning, make paper settings, and make adjustments such as bi-directional printing adjustment.



#### **About Linux Printer Driver**

- Linux driver is not for end-users. It is aimed at system developers or engineers who can build a Linux based system by themselves. To operate the driver, command lines are mainly used. Rich graphical user interface such as the Windows printer driver is not provided.
- It offers minimum functions for printing.
- Basically, the same functions as Mac printer driver are provided except for some functions that cannot be achieved due to Linux OS restrictions.

The work procedure is as follows.





Throughout this section, command strings that follow "\$" can be executed by a login user, and command strings that follow "#" need to be executed with administrator privileges.

## Getting the Package (epson-inkjet-printer-cw-c4000)

Download the latest version of the printer driver and Epson Label Printer Utility for Linux.

For details, see "Downloading Printer Driver, Utilities, and Manuals" on page 333.

#### **Installing the Printer Driver**

Start a terminal software, and execute a command shown below.

- < Ubuntu 18.04>
  - # dpkg -i epson-inkjet-printer-cw-c4000\_[Arch].deb
- <CentOS 7>
  - # rpm -i epson-inkjet-printer-cw-c4000\_[Arch].rpm

#### **Installing Input/Output Modules**

Execute a command shown below.

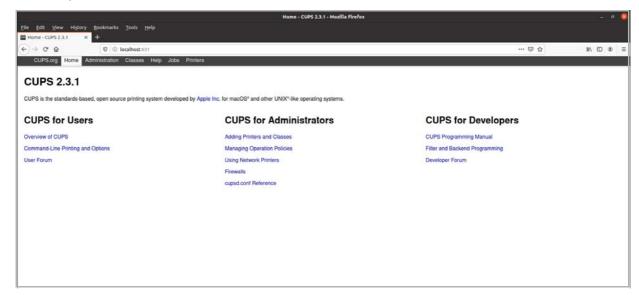
- 1.0.0 indicates version of the software. Correct it according to the file you use.
- < Ubuntu 18.04>
  - # dpkg -i epson-printer-io-community-1.2.1. deb
- < CentOS 7>
  - # rpm -i epson-printer-io-community-1.2.1.rpm

#### Adding the Printer to the CUPS

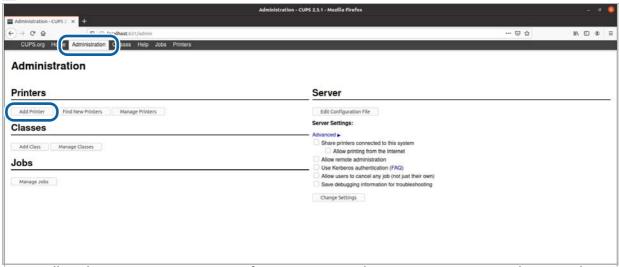
The following is the procedure using a web browser.

## 1 Access the address below.

http://localhost:631/

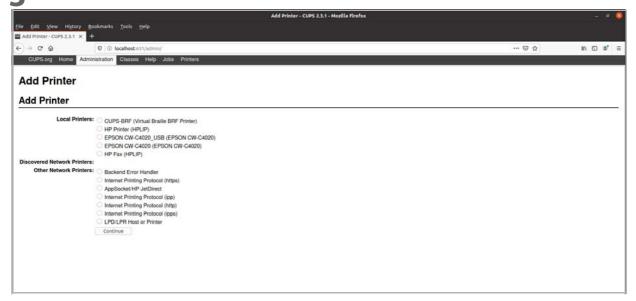


## Select the [Administration] tab, and then select [Add Printer].



Follow the on-screen instructions. If you are prompted to enter a user name and password, enter "root" as a user name and enter an administrative password.

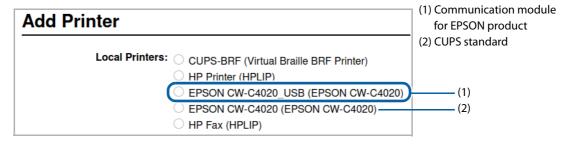
#### When a list of printers is displayed, select the printer to add.



Select the [Printers] tab to see the information of the added printer.

#### For USB connection

If the printer is connected to the computer using a USB cable, select the printer as described below. In the list of printers, select the printer that is indicated with its model name followed by "\_USB" (1).



### **Installing Epson Label Printer Utility for Linux**

Execute a command shown below.

- **1.0.0** indicates version of the software. Correct it according to the file you use.
- < Ubuntu 18.04>
  - # dpkg -i epson-label-printer-utility-community-1.3.0-QT5.deb
- < CentOS 7>
  - # rpm -i epson-label-printer-utility-community-1.3.0-QT5.rpm0

#### **Starting Epson Label Printer Utility for Linux**

Epson Label Printer Utility for Linux can be started either from a command line or from Desktop Entry.

Use one of the following methods to start the utility.

- ☐ Starting from a command line
  - Execute a command shown below.
  - <Common to both Ubuntu and CentOS>
  - \$ /opt/epson/epson-label-printer-utility/elpuqt &
- ☐ Starting from Desktop Entry

The operation method may vary by distribution, edition, flavors, and version.

The following explains how to start the utility on Ubuntu 18.04 and CentOS 7.

<Ubuntu 18.04>

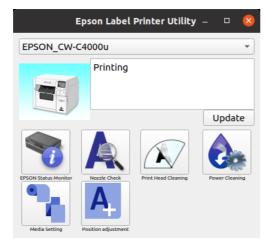
Click the icon in the bottom left of the screen, and then select Epson Label Printer Utility in the displayed list. If the utility is not displayed, search for "Epson" to find it.

<CentOS 7>

From the application menu located in the upper left of the screen, select the "Accessories" sub menu. Select Epson Label Printer Utility from the displayed list.

Epson Label Printer Utility for Linux will start.

Click an icon to display the function screen. For details, see the descriptions shown on the function screen.



#### **Installing Dependent Libraries**

If you are using supported distribution and have not changed the default settings, installing dependent libraries is not necessary. If you have not installed default full package, Epson Label Printer Utility for Linux may not work due to lack of dependent libraries.

The dependent libraries and the required package are as follows.

Dependent file	nt file Dependent package (Ubuntu 18.04) Dependent package (CentO	
libQtCore.so.5	libqt5core5a	qt5-qtbase
qt5-qtbase	libqt5gui5	qt5-qtbase-gui
libQtWidgets.so.5	libqt5widgets5	
libcups.so.2	libcups2	libcups2
libcupsimage.so.2	libcupsimage2	
libpng15.so.15	(Not used)	libpng15
libpng16.so.16	libpng16-16	(Not used)
libusb-1.0	libusb-1.0-0	libusb

If an error occurs due to lack of dependent libraries when starting Epson Label Printer Utility for Linux, install the necessary file.

Example: Qt5 is not found on Ubuntu 18.04

Execute a command shown below.

# apt install libqt5widgets5

## **Exiting Epson Label Printer Utility for Linux**

Use one of the following methods to exit the utility.

- Click "X" on the screen.
- Press [Alt] and [F4] at the same time.
- Click [Exit Epson Label Printer Utility].

## Uninstalling Printer Driver, Epson Label Printer Utility for Linux

#### ☐ Printer driver

Start a terminal software, and execute a command shown below.

- < Ubuntu 18.04>
- # dpkg -P epson-inkjet-printer-cw-c4000
- < CentOS 7>
- # rpm -e epson-inkjet-printer-cw-c4000

- lue Epson Label Printer Utility for Linux
  - Start a terminal software, and execute a command shown below.
  - < Ubuntu 18.04>
  - # dpkg -P epson-label-printer-utility-community
  - # dpkg -P epson-printer-io-community
  - < CentOS 7>
  - # rpm -e epson-label-printer-utility-community
  - # rpm -e epson-printer-io-community

# **Printing from SAP System**

There are three types of printing methods from the SAP system, which is one of the ERP (Enterprise Resource Planning) systems: Direct printing, Indirect printing, and High Volume printing. This product supports the two printing methods, Indirect printing and High Volume printing, and does not support Direct printing, which is the standard printing method for SAP systems. If you want to print with Direct printing, please use CW-C6020/C6520 Series.

## **Methods of Printing from SAP System**

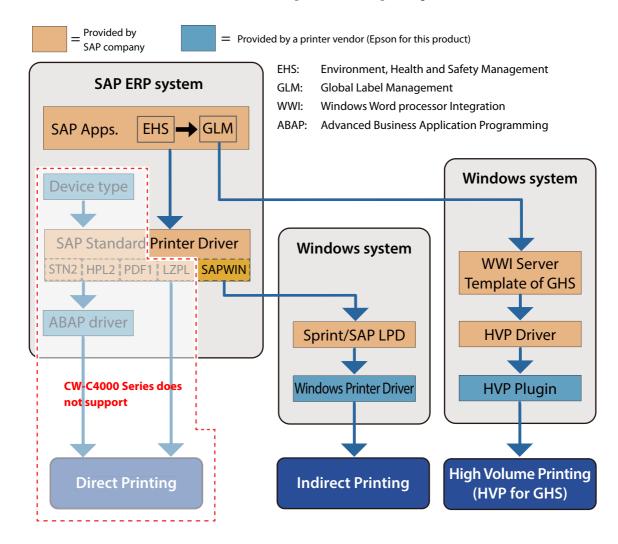
There are the following three methods to print from SAP System.

To know the data flow and component of each methods, see "SAP System Printing Data Flow" on page 165.

Printing Method	Overview
Indirect printing  "Indirect Printing" on page 166	Printing operation is completed through a Windows computer located outside the SAP system.  Sprint or SAP LPD software provided by SAP company installed on the Windows computer receives print data from the SAP system, converts the data into Windows print system format, and then prints the data by sending it to a Windows printer driver provided by the printer vendor. Therefore, this method allows you to print on various Windows compatible printers. However, because of using software located outside the SAP system, frequency of problem may increase or printing speed may decrease compared to Direct printing.
High Volume Printing  「学"High Volume Printing" on page 166	This method is for printing GHS labels that contain color pictograms. The data is sent from EHS (Environment, Health and Safety Management) and GLM (Global Label Management) and printed through WWI (Windows Word processor Integration) Server.  HVP driver provided by SAP company is used, and for specifying the target printer, plug-in provided by the printer vendor is used. The amount of data for printing is smaller than that for normal Windows printer driver.
Direct printing	This product does not support this printing method.  This is a standard method for printing from SAP System. Printing operation is completed in the closed SAP system environment, where basically only programs provided by SAP company are used. Printer driver provided by the system as a SAP standard printer driver is used. Since this Direct printing system is highly reliable and stable, it is generally used for remote batch high-volume printing.

#### **SAP System Printing Data Flow**

The flowchart below shows the data flow and component of each printing methods.



# **Indirect Printing**

Install the latest Epson Windows printer driver on a Windows computer for using this method. For instructions on how to use the driver, see "Printer Driver for Windows" on page 71.

For instructions on how to install and use the SAP software, Sprint or SAP LPD, follow the instructions provided by SAP company.

## **High Volume Printing**

This method uses HVP driver provided by SAP company. Epson provides a plug-in file for the HVP driver. Plug-in file name: HVP Plug in for CW C40x0

For instructions on how to perform high volume printing, see "CW-C4000 Series HVP Plug in Module User's Guide" that comes with the plug-in.

# **PrinterSetting (Windows)**



You may not be able to change the settings while the printer driver or other software is communicating with the printer.

PrinterSetting is a utility that allows you to configure the printer settings. The following shows a summary of available settings with PrinterSetting.

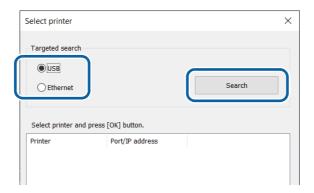
Item	Description	Page
Media settings*	Allows you to make settings of paper to be used on the printer.	Page 170
Layout settings*	Allows you to make paper layout settings. User-defined layout settings that include paper form and print area setting can be configured.	Page 171
Position adjustment	Allows you to adjust print start position and cut position.	Page 173
Print results adjustment*	Allows you to adjust colors and barcode.	Page 175
Store data in the printer	Allows you to register images, templates, and fonts to the printer. In addition, a character code can be selected from the character code table.	Page 176
Background image settings*	Allows you to configure a background image.	Page 180
Print head maintenance	Allows you to run a print head cleaning or nozzle check, and make settings for periodic cleaning.	Page 184
Detailed settings	Allows you to make detailed settings of the printer.  Printer settings  Print head alignment  Panel settings  Operating time settings  Nozzle check settings  Advanced settings  Initialize printer	Page 185 to Page 203
Printer information	Allows you to check the printer settings such as paper settings and layout settings, and the maintenance counter.	Page 204
Settings save and restore	Allows you to save the printer settings and to restore the settings from the saved file.	Page 206
Option	Allows you to change PrinterSetting preferences.  A unit of length used in PrinterSetting and start up setting can be changed.	Page 207

<sup>\*</sup> Not displayed if you start PrinterSetting from the printer driver.

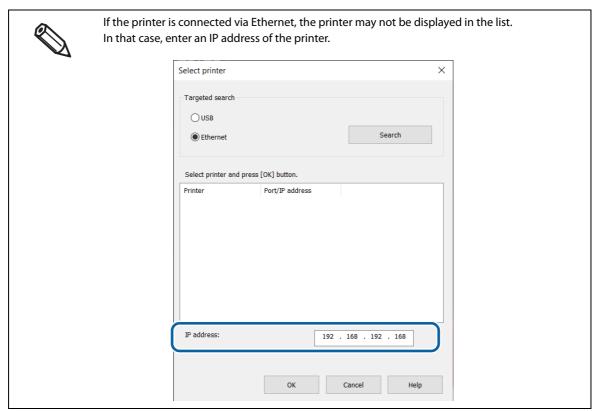
## **How to Start PrinterSetting**

Start PrinterSetting by following the steps below.

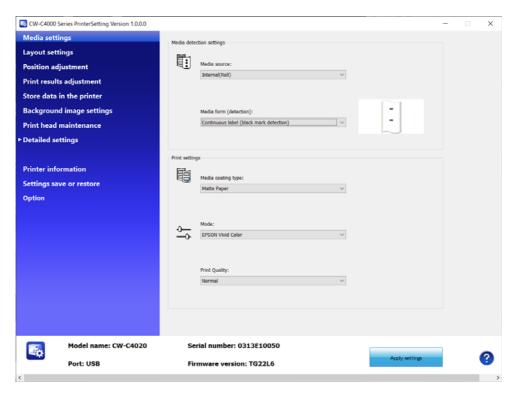
- 1 Turn the printer on.
- Click [Start] [EPSON] [CW-C40XX PrinterSetting].
- The Select printer window appears. Select a search target, and then click [Search].



**1** The printer is displayed in the list. Select the printer, and then click [OK].

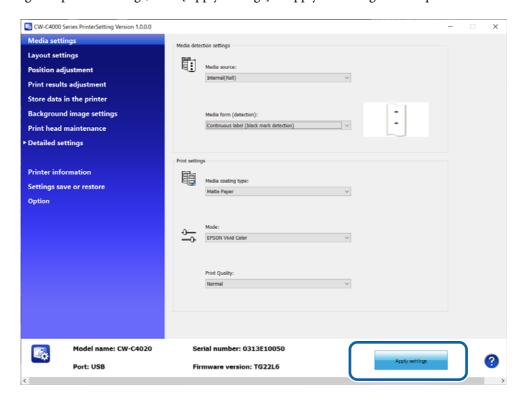


### **S** PrinterSetting is started.



# **How to Apply Settings**

After you change the printer settings, click [Apply settings] to apply the changes to the printer.

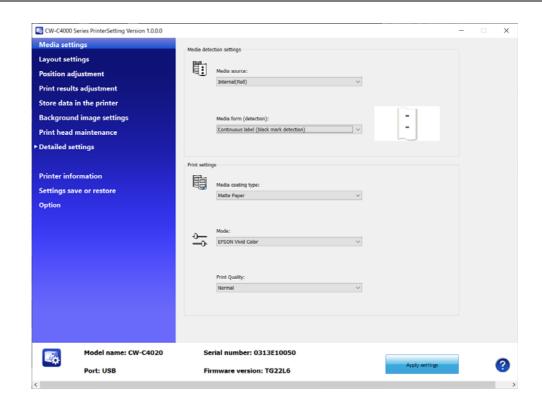


# Media settings

Allows you to make settings of paper to be used on the printer.



This is not displayed if you start PrinterSetting from the printer driver.



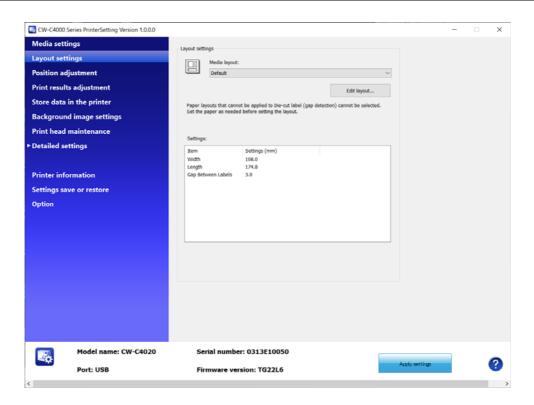
Item		Description	
Media detection	Media source	Allows you to change the paper feed setting.	
settings	Media form (detection)	Allows you to set paper detection setting.	
Print settings	Media coating type	Allows you to select a paper type.	
	Mode	Allows you to select the color correction method.	
	Print Quality	Allows you to select the print quality.	

# Layout settings

Allows you to change the paper layout settings and create a user-defined layout settings.

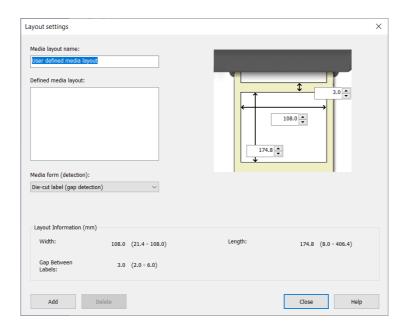


This is not displayed if you start PrinterSetting from the printer driver.



Item		Description
Layout settings	Media layout	Allows you to make paper layout settings.
	Edit layout	Allows you to create a user-defined layout settings. The Layout settings window appears when you click this.

# **Layout settings**



ltem	Description
Media layout name	Allows you to set a name for a new paper layout settings. Enter a name to set.
Defined media layout	If one or more sets of user-defined paper layout settings already exist, they are listed here.
Media form (detection)	Allows you to select a media form.
Layout Information	Allows you to specify a width, length,, and a gap between labels.  Available setting items in [Layout Information] varies by media form. Before setting [Layout Information], select the media form.



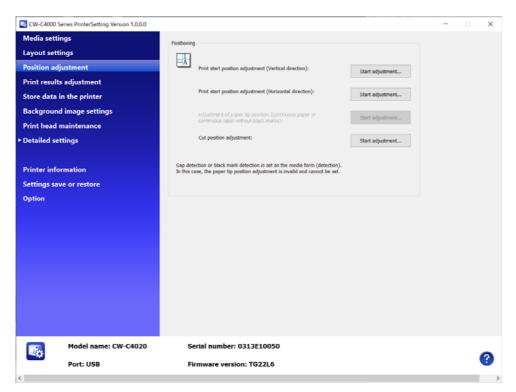
When label (page) length is long, length of printed image may be shorter than the specified length depending on paper used. It causes an extra margin on the bottom of the label (page) (bottom means rear end in the paper feed direction). If you want to reduce the margin, try the following method.

Step 1: Examine print results on labels.

Step 2: Add the length of the extra margin to the length in Layout settings.

# Position adjustment

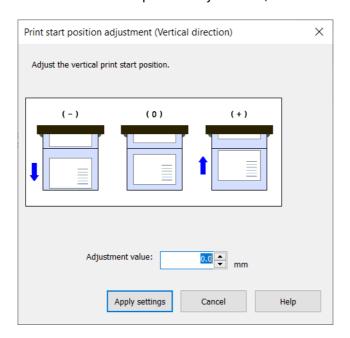
Allows you to adjust print start position and cut position.



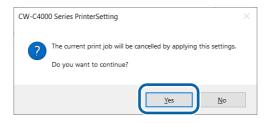
ltem		Description
Positioning	Print start position adjustment (Vertical direction)	Allows you to adjust the print start position in the vertical direction.  Adjustment procedure  "Start adjustment" on page 174
	Print start position adjustment (Horizontal direction)	Allows you to adjust the print start position in the horizontal direction.  Adjustment procedure  Tale Start adjustment on page 174
	Adjustment of paper tip position (continuous paper or continuous label without black marks)	Allows you to adjust the print start position from the leading edge of continuous paper or full-page label.  Adjustment procedure  Tale Start adjustment on page 174
	Cut position adjustment	Allows you to adjust the cut position.  Adjustment procedure

# Start adjustment

The window shown below appears when you click [Start adjustment]. (The window is of Print start position adjustment (Vertical direction).)



- The control of the settings in the [Adjustment value] box, and then click [Apply settings].
- A confirmation window appears. If you click [Yes], the change is applied.



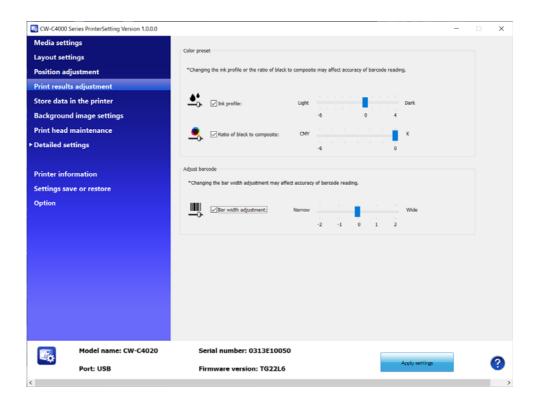
- ⚠ The result is displayed. Click [OK].
- 5 Print on some labels to check the position is corrected as intended.

# Print results adjustment

Allows you to adjust colors and barcode.



This is not displayed if you start PrinterSetting from the printer driver.



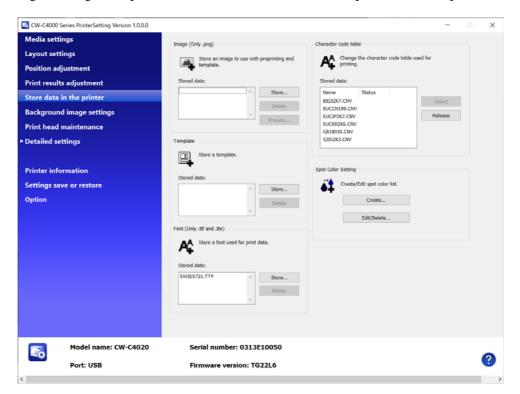
ltem		Description
Color preset	Ink profile	Allows you to adjust print density. To ensure print quality, adjust this when you change paper.
	Ratio of black to composite	Allows you to set the ratio of black to composite.
Adjust barcode	Bar width adjustment	When using a built-in barcode font, use this to adjust the bar width.



If you increase the ratio of black ink, be careful not to touch the printed surface immediately after printing because ink can adhere to your fingers.

# Store data in the printer

Allows you to register images, templates, fonts, character code tables, and spot colors to the printer.



Item	Description	
Image (Only .png)	You can register images to be used for preprinting or templates.	
Template	Allows you to register templates.	
Font (Only .ttf and .tte)	Allows you to register fonts to be used in print data.	
Character code table	Allows you to register character code tables to use when printing.	
Spot Color Setting	Allows you to create spot color setting files.	

#### **Registering Images**

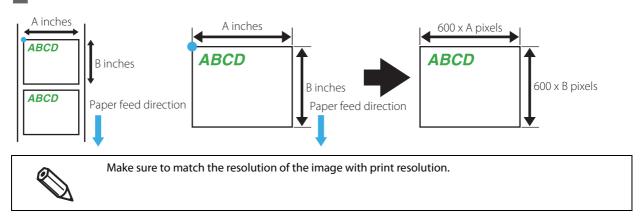
You can register frequently used color images to the printer.

#### Creating a background image

1 Prepare an image file in PNG format that has resolution appropriate for printing by the printer.

See "Product Specifications" on page 308.

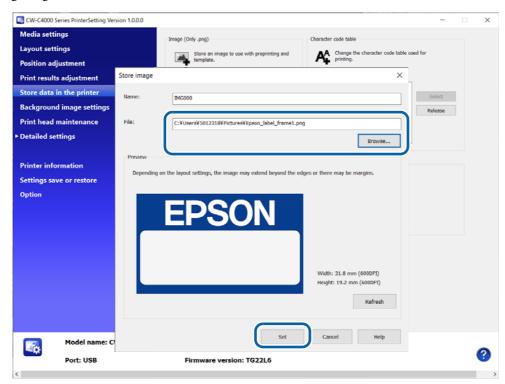
**7** Replace an image according to the media size.



Save the image file in PNG format.

#### **Registering Images**

Click [Store...] in the [Image (Only .png)] field to display a screen to select an image. Specify a png image file to be stored, and then click [Set].

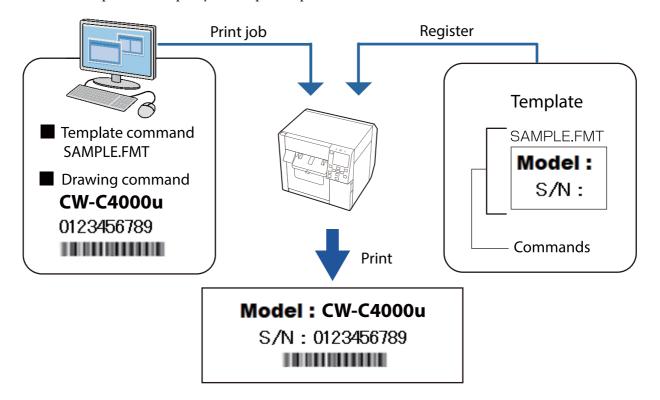


The image file is sent to the printer and stored as a background image.

#### **Registering Templates**

The term "template" indicates a standard size label format used by an application that directly controls ESC/Label commands. Registering a template that can be used for your various labels allows your application to generate only data of variable information and print the data combining it with the registered template.

To create a template and to specify the template to print, use the ESC/Label commands.



#### **Creating Templates**

Using the ESC/Label commands, write label format to be registered on a text or binary file. In the label format description, write the file name of the template file. For more details about the commands, refer to the "Save label format" section in "ESC/Label Command Reference Guide". There is no prescribed file extension for the text or binary file.

#### **Registering Templates**

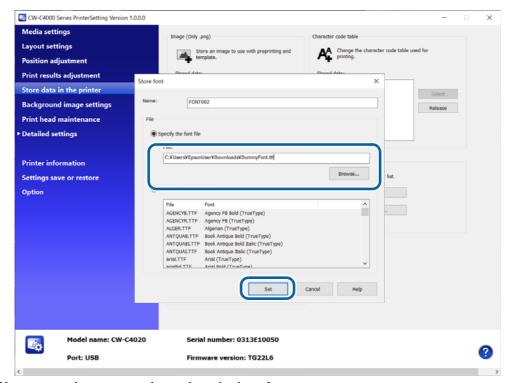
Click [Store...] in the [Template] field to display a screen to select a template file. Select the text or binary file that you created as the template file, then click [Set].



The template file is stored in the printer.

#### **Registering Fonts**

Click [Store...] in the [Font (Only .ttf and .tte)] field to display a screen to select a font. Specify the font file (TTF format) to be stored, and then click [Set].



The font file is sent to the printer and stored as a built-in font.

## **Setting Character Code Table**

To print characters under the direct control of ESC/Label commands, you need to set character code table that corresponds to the character code you use.

Character code	Target main country/ language	Character code table
BIG5	Taiwan, Hong Kong, Macao	BIG52K7.CNV
EUC-CN	China (Simplified Chinese)	EUCCN199.CNV
EUC-JP	Japan	EUCJP2K7.CNV
KS X 1001(KS-C 5601-1987)	Korea	EUCKR2K6.CNV
GB18030	China (Simplified Chinese)	GB18030.CNV
Shift-JIS	Japan	SJIS2K3.CNV

Select a character code in the [Stored data:] box in the [Character code table] field, and then click [Select].



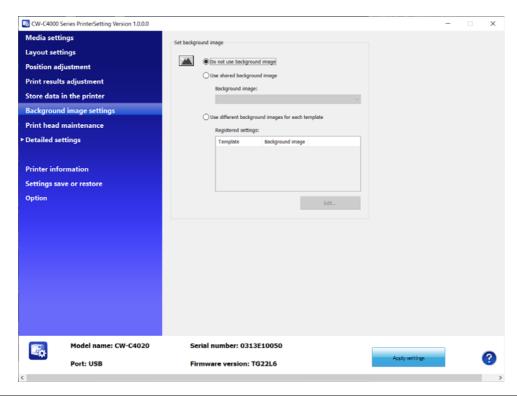
If you have replaced from a ZPL II compatible monochrome printer, a character code that CW-C4000 Series do not support may be specified and the specified character code table may not be applied. In such case, select [Advanced settings] from the [Detailed settings] menus, then select [Fix character code table] in the [Replace settings from printer using ZPL II commands] window. For details, see "Settings for Replacing from ZPL II Compatible Monochrome Printer" on page 196.

# **Background image settings**

Allows you to configure a background image.



- Use this function when using the following software.
- Windows driver from Zebra Technologies Corporation
  - A commercially available label printing application that supports this printer
- An application that directly controls ZPL II or ESC/Label commands
- This is not displayed if you start PrinterSetting from the printer driver.



	ltem	Description
Set background image	Do not use background image	Select this when you do not want to print a background image.
	Use shared background image	The specified image is printed as a background image in normal printing mode.  If you print using a template, the image is not printed.
	Use different background images for each template	If you print using a template, the image specified for the selected template is printed.  If you do not use a template, the image is not printed.

### Printing the background image

The background image is printed with the following software.

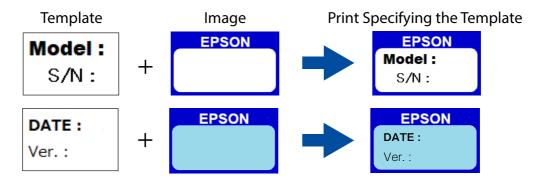
- Windows driver from Zebra Technologies Corporation
- A commercially available label printing application that supports this printer
- An application that directly controls ZPL II or ESC/Label commands



The Epson printer driver does not support printing a background image.

### Linking the Image and the Template

CW-C4000 Series allows you to link an image to a template so that the image is printed being overlaid on the template automatically when the template is specified by an application.



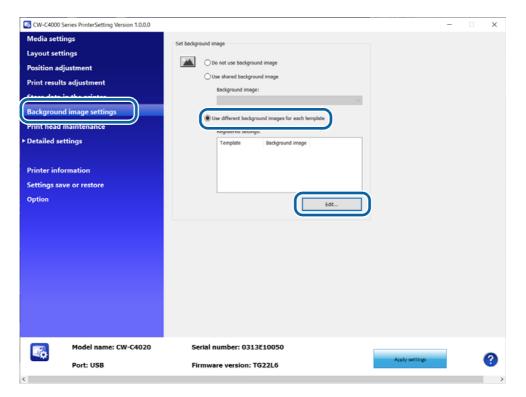
First store the image and the template data in the printer, and then make the link setting.

Store the image data: "Registering Images" on page 177

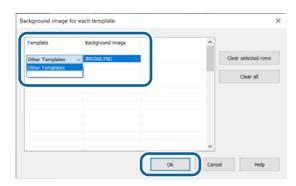
Store the template data: "Registering Templates" on page 178

When you have finished storing the data, make the link setting.

In the [Set background image] field, select [Use different background images for each template], and then click [Edit...].

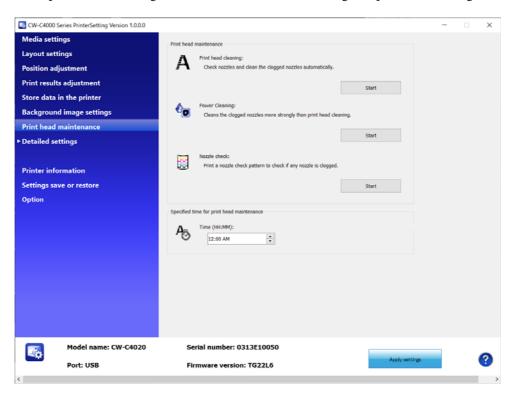


In the [Background image for each template] window, select a template and an image to be linked to the template, and then click [OK]. The link setting is set to the printer.



### Print head maintenance

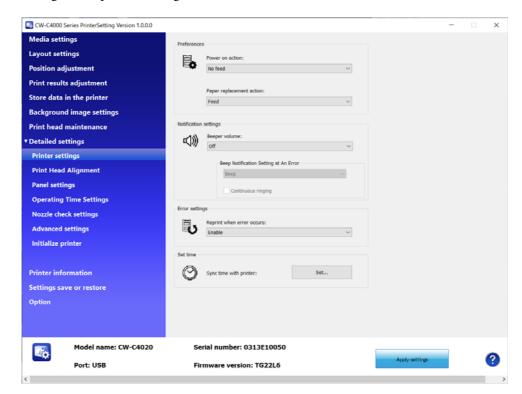
Allows you to run a print head cleaning or nozzle check, and make settings for periodic cleaning.



Item		Description
Print head maintenance	Print head cleaning	Runs a nozzle check and clears nozzle clogging. Click [Start] to run the cleaning.
	Power Cleaning	Clears nozzle clogging by running a cleaning that is more powerful than [Print head cleaning]. Click [Start] to run the cleaning.
	Nozzle check	The nozzle check patterns are printed to allow you to check print nozzles for clogging.  Click [Start] to print the nozzle check pattern.
Specified time for print head maintenance		Allows you to set a time for running the cleaning.  Specify the time in the [Time (HH:MM)] entry box.  For details, see "Periodic Auto Cleaning" on page 28.

# **Printer settings**

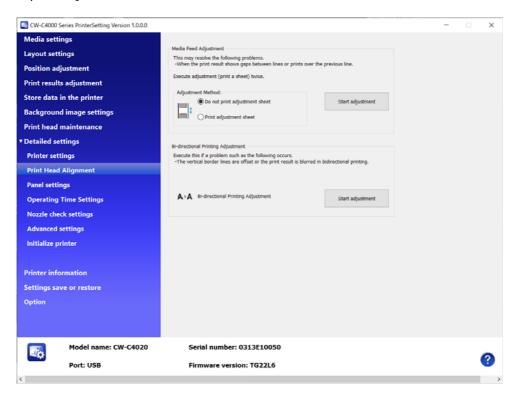
Allows you to configure the printer settings.



Item		Description
Preferences	Power on action	Select a printer action when the printer is powered on.
	Paper replacement action	Select a printer action when paper is replaced.
Notification	Beeper volume	Set the volume of the buzzer.
settings	Beep Notification Setting at An Error	Set whether to sound the buzzer when an error occurs. This setting is available when the [Beeper volume] setting is not [Off].
	Continuous ringing	Select the check box to let the buzzer sound continuously when an error occurs. To stop the beep, press the (home) button or the (back) button on the operation panel.
Error settings		Set whether or not to reprint when an error occurs.
Set time		Set the date and time settings of the printer.

### **Print Head Alignment**

Allows you to adjust the print head.



Item	Description
Media Feed Adjustment	Carry out this adjustment when white or black banding/streaks appear on printouts.  Adjustment procedure  "Media Feed Adjustment" on page 187
Bi-directional Printing Adjustment	Carry out this adjustment when printed lines are skewed or misaligned, or printed text looks blurred.  Adjustment procedure  "Bi-directional Printing Adjustment" on page 189

### **Media Feed Adjustment**

This allows you to adjust paper feeding when white or black banding/streaks appear on printouts.



When printing the media feed adjustment patterns, load paper that is 99.5 mm (3.92 inches) wide or larger. The recommended paper length is 31.0 mm (1.22 inches) or more. Also, refer to the table below for the length of remaining paper required for printing.

# The length of remaining paper required for printing the adjustment patterns (from the auto cutting position to the paper end)

	Paper Form Paper Size	Full-page Label/Continuous paper (without gap/black mark detection)	Others (with gap/ black mark detection)
		312 mm (12.3 inches)	
When using included roll paper	Length: 174.8 mm (6.9") Gap between pages: 3.0 mm (0.12")		474 mm (18.7")
When the maximum length is required	Length: 406.4 mm (16.0")  Gap between pages: 6.0 mm (0.24")		943 mm (37.1")

Adjustment method	Description
Do not print adjustment sheet	Select this method if you do not have die-cut label, continuous paper, or full-page label paper with a length of 66.7 mm or longer.  Prepare print data that you can easily check banding or streaks on printouts, and then configure the settings by printing and adjusting repeatedly.
Print adjustment sheet	Select this method to print a preset patterns for adjustment on die-cut label, continuous paper, or full-page label paper with a length of 66.7 mm or longer, and carry out the adjustment using the printed patterns.



When printing for the Media Feed Adjustment, keep the printer settings unchanged from the settings you usually use.

#### Do not print adjustment sheet

- 1 Prepare print data that you can easily check banding or streaks on printouts.
- Print the prepared data from the printer.
- Select [Do not print adjustment sheet] from [Adjustment Method], and then click [Start adjustment].

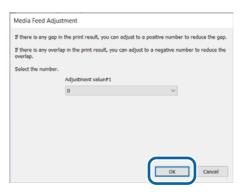
# The first Media Feed Adjustment window appears. Look at the print results and then select a setting value.

After selecting a setting value, click [OK].

If there are gaps (white banding), make the adjustment in the + direction.

If there is overlapping in the print results (black banding), make the adjustment in the – direction.

The adjustment increment is 0.0105 mm (1/2400 inch).



- An adjustment start confirmation window appears. Click [Yes].
  - The second Media Feed Adjustment window appears.
- In the same way as step 4, look at the print results and then select a setting value.
- **7** When adjustment is complete, a complete window appears. Click [OK].
- Print the data prepared in step 1 again.
- **Q** Check the print results.

If gaps are no longer conspicuous, the setting is complete.

To make further adjustment, repeat steps 3 to 9.

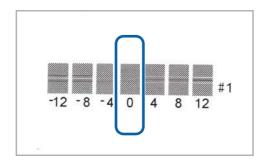
#### **Print adjustment sheet**

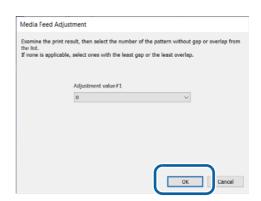
- 1 Load die-cut label, continuous paper, or full-page label paper with a length of 66.7 mm or more into the printer.
- 2 Select [Print adjustment sheet] from [Adjustment Method], and then click [Start adjustment].
- A confirmation window to print the adjustment sheet appears. Check that paper is loaded in the printer and then click [OK].

The adjustment sheet is printed and the first Media Feed Adjustment window appears.

Check the sheet and then select the number for the pattern with the least gaps or overlapping in #1 group, and then click [OK].

Adjustment sheet print example (for this sheet, select "0".)





- A confirmation window to print the adjustment sheet appears again. Click [Yes]. The adjustment sheet is printed and the second Media Feed Adjustment window appears.
- In the same way as step 4, look at the print results and then select a setting value.
- **7** An adjustment start confirmation window appears. Click [Yes].
- When adjustment is complete, a complete window appears. Click [OK].

### **Bi-directional Printing Adjustment**

When printed vertical or horizontal lines look skewed or misaligned, or when printed text looks blurred, perform the Bi-directional Printing Adjustment.



When printing the bi-directional printing adjustment patterns, load paper that is 99.5 mm (3.92 inches) wide or larger. The recommended paper length is 69.0 mm (2.72 inches) or more. Also, refer to the table below for the length of remaining paper required for printing.

# The length of remaining paper required for printing the adjustment patterns (from the auto cutting position to the paper end)

	Paper Form Paper Size	Full-page Label/Continuous paper (without gap/black mark detection)	Others (with gap/ black mark detection)
		365 mm (14.4 inches)	
When using included roll paper	Length: 174.8 mm (6.9") Gap between pages: 3.0 mm (0.12")		652 mm (25.7")
When the maximum length is required	Length: 406.4 mm (16.0")  Gap between pages: 6.0 mm (0.24")		1,356 mm (53.4")



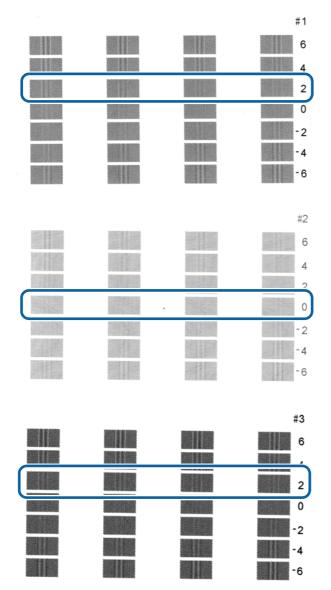
Whether or not to perform bi-directional printing can be set in [Print Quality] - [Advanced] - [Bidirectional Printing] on the printer driver.

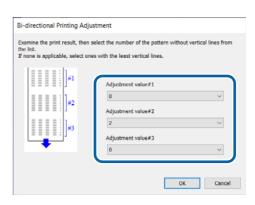
- 1 Load die-cut label, continuous paper, or full-page label paper with a length of 66.7 mm or more into the printer.
- Click [Start adjustment].
  A confirmation window to print the sheet for Bi-directional Printing Adjustment appears.
- Check that paper is loaded in the printer and then click [OK].

  The adjustment sheet is printed and the bi-directional printing adjustment window appears.

# Check the sheet and then select the number for the pattern with the least gaps or overlapping in each of #1, #2, and #3 groups, and then click [OK].

Adjustment sheet print example (for this sheet, select "2" for #1 group, select "0" for #2 group, and select "2" for #3 group.)

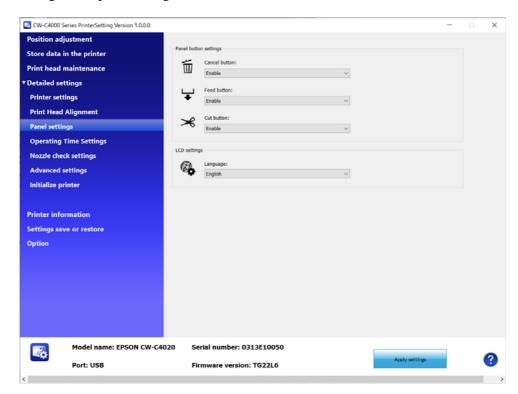




- **5** An adjustment start confirmation window appears. Click [Yes].
- 6 When adjustment is complete, a complete window appears. Click [OK].

# **Panel settings**

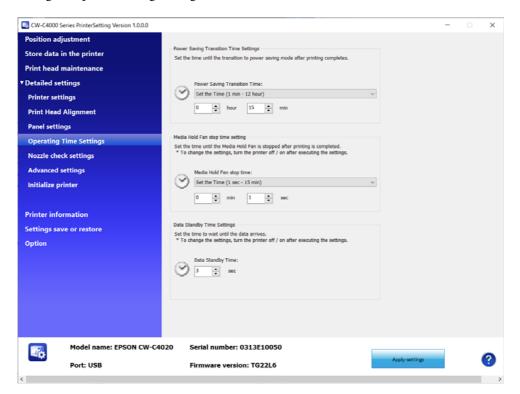
Allows you to configure the panel settings.



Item		Description
Panel button settings	Cancel button	Select whether to enable or disable the cancel button.
	Feed button	Select whether to enable or disable the feed button.
	Cut button	Select whether to enable or disable the cut button.
LCD settings		Select the language to display.

### **Operating Time Settings**

Allows you to change the power saving settings.

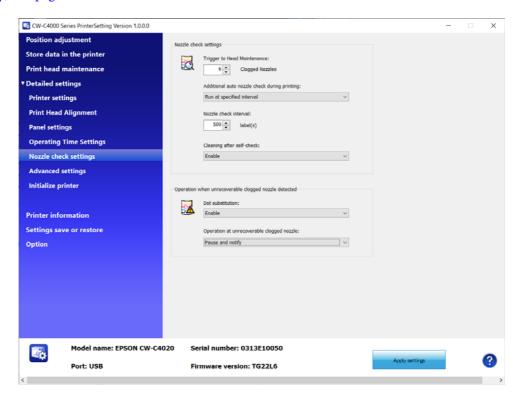


ltem	Description
Power Saving Transition Time Settings	Set the time until the printer enters the power saving mode after completing printer operations such as printing and regular automatic cleaning.
Media Hold Fan stop time setting	Set the time until the paper suction fan is stopped after printing is completed.
Data Standby Time Settings	Set the time to wait for data to arrive. Increasing the data waiting time may result in a slight increase in ink consumption. Normally, it is recommended to use a setting below the default value.

### Nozzle check settings

Allows you to change the nozzle check settings.

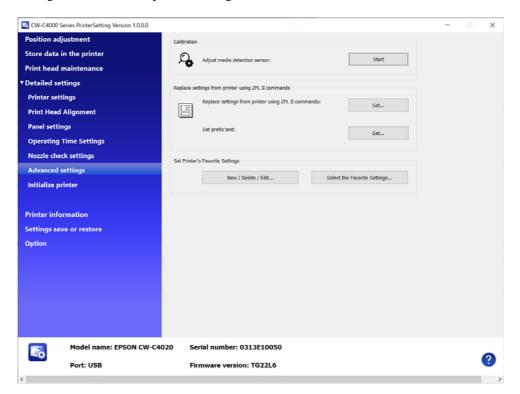
For more details about the nozzle check, see "Auto Nozzle Check System" on page 24, and for more details about the dot substitution function, see "Complementing Missing Dots due to Clogged Nozzles (Nozzle Verification Technology)" on page 27.



Item		Description
Nozzle check settings	Trigger to Head Maintenance	Specify the allowable number of clogged nozzles to be used for the self nozzle check system.
	Additional auto nozzle check during printing	Set whether or not to run the self-nozzle check system during printing.
	Nozzle check interval	Specify the interval of nozzle check when [Additional auto nozzle check during printing] is set to be performed at the specified interval.
	Cleaning after self-check	Select whether to run an auto cleaning after self-check.
Operation when unrecoverable clogged nozzle detected	Dot substitution	Select whether to enable or disable the Dot substitution function.  See "Complementing Missing Dots due to Clogged Nozzles (Nozzle Verification Technology)" on page 27.
	Operation at unrecoverable clogged nozzle	Set the action to be taken when the number of clogged nozzles exceeds the number set at [Trigger to Head Maintenance].

## **Advanced settings**

Allows you to configure the advanced printer settings.



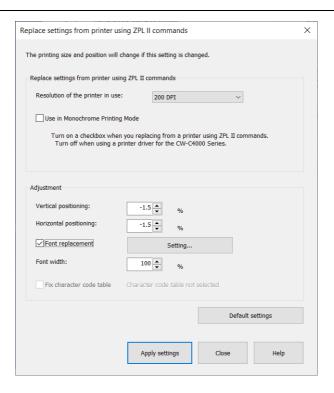
ltem		Description
Calibration		Allows you to carry out calibration of sensors.
Replace settings from printer using ZPL II commands	Replace settings from printer using ZPL II commands	Allows you to make and apply settings for replacing from a ZPL II compatible monochrome printer.  The "Replace settings from printer using ZPL II commands" window appears when you click [Set].  See. "Settings for Replacing from ZPL II Compatible Monochrome Printer" on page 196.
	Set prefix text	Allows you to set prefix text.
Set Printer's Favorite Settings		Allows you to register favorite settings to the printer, or edit the settings.  See "Registering Favorite Settings" on page 200.

#### Settings for Replacing from ZPL II Compatible Monochrome Printer

Click [Set...] for [Replace settings from printer using ZPL II commands] to open the setting window.



When adjusting, make the adjustment checking actual printouts.



#### **Resolution Settings**

Select the resolution in the [Original Resolution] pull-down menus.

If the same resolution is not found in the menus, select one of the closest resolution. For example, if the resolution of the ZPL II compatible monochrome printer you were using is 203 dpi, select 200 dpi.

#### **Monochrome Print Mode Setting**

If you use the printer just as a replacement of your previous ZPL II compatible monochrome printer and do not perform color printing, select the check box.

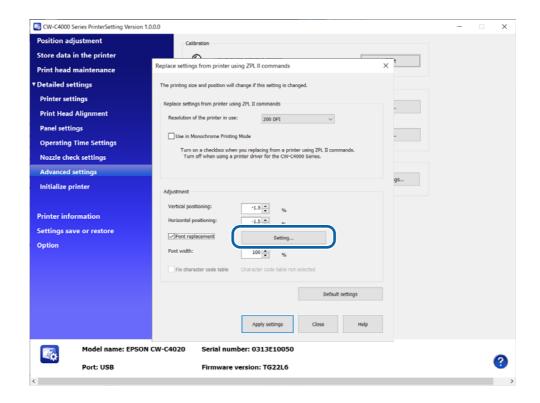
#### **Vertical/Horizontal Positioning**

You can adjust the print position of objects such as text, image, or graphic.

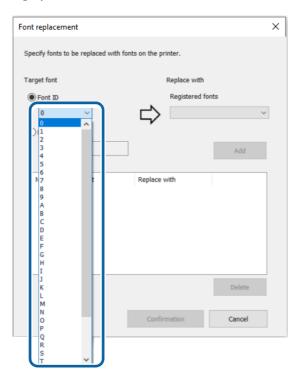
If you have set the same resolution as the resolution of the ZPL II compatible monochrome printer in the [Original Resolution] setting, set "0" (zero) to both the [Vertical positioning] and [Horizontal positioning]. If the resolution of the ZPL II compatible monochrome printer you were using is 203 dpi, and you have set the [Original Resolution] setting to [200 dpi], set "-1.5" to both the [Vertical positioning] and [Horizontal positioning].

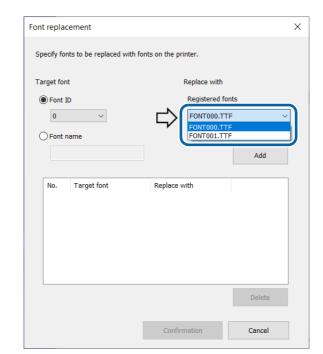
#### **Font Replacement**

Click [Settings] beside [Font replacement].



When the setting window is displayed, select the font ID from the list box.



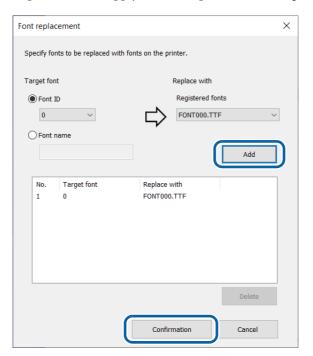


With the font ID specified, select a registered font to be associated to the font ID.

Click [Add] to add the pair to the list in the window.

Click [Confirmation] to save the list and go back to the "Replace settings from printer using ZPL II commands" window.

Select the check box for [Font replacement] to apply the font replacement settings.



#### **Font Width Setting**

You can change the font width. At first, set to "100".



If you want to change the height of font or space between lines, configure it on an application.

#### **Fix Character Code Table**

Select the check box for this item to print using character code table set on the CW-C4000 Series printer if an unsupported character code is specified.

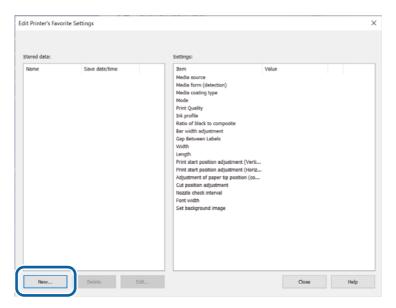
#### **Applying the Settings**

When you have finished making necessary settings, click [Apply settings].

All the settings are sent and set to the printer.

### **Registering Favorite Settings**

- Click [New/Delete/Edit] in [Set Printer's Favorite Settings].
- The "Edit Printer's Favorite Settings" window appears. Click [New...].

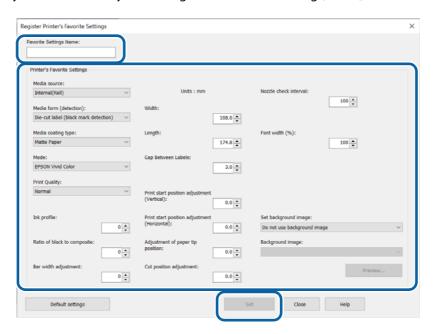


The "Register Printer's Favorite Settings" window appears. Enter a name for the settings in the [Favorite Settings Name] box, and make the settings in [Printer's Favorite Settings]. When finished, click [Set].



- For the favorite settings name, you can use up to 15 ASCII (20h to 7Eh) characters excluding ^, ~, :, comma, and period.
- Up to 100 sets of favorite settings can be registered.

When you want to reset your settings to the default settings, click [Default settings].

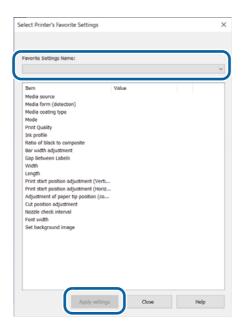


Click [Close] to return to the "Edit Printer's Favorite Settings" window.
The favorite settings you added are displayed in the [Stored data] box.

### **Applying Favorite Settings**

Follow the procedure below to apply the registered favorite settings to the printer.

- Click [Select the Favorite Settings] in [Set Printer's Favorite Settings].
- The "Select Printer's Favorite Settings" window appears. In the [Favorite Settings Name] box, select a set of favorite settings you want to apply to the printer, and then click [Apply settings].

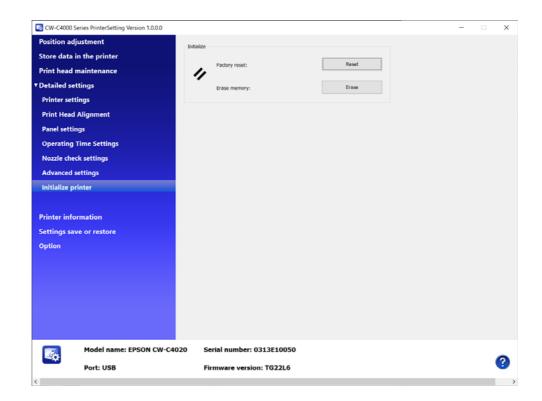


## Initialize printer

Allows you to initialize the printer.



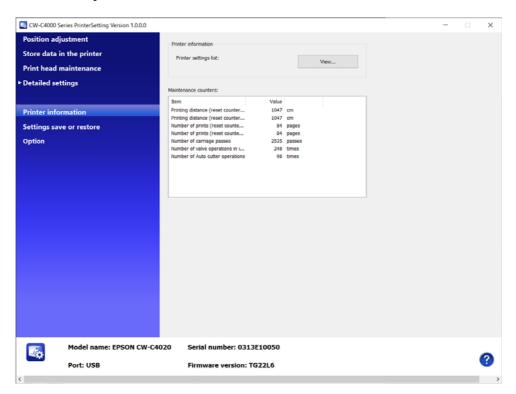
When the printer is initialized using the [Initialize] menu, all image files and setting files you have registered are deleted.



Ito	em	Description
Initialize	Factory reset	Returns the printer settings to their defaults.
	Erase memory	Initializes the extended memory.

### **Printer information**

Displays information of the printer.



It	tem	Description
Printer information	Printer settings list	Click [View] to see the current settings of the printer. See "Printer settings list" on page 205.
Maintenance counters		Allows you to check the maintenance counters.

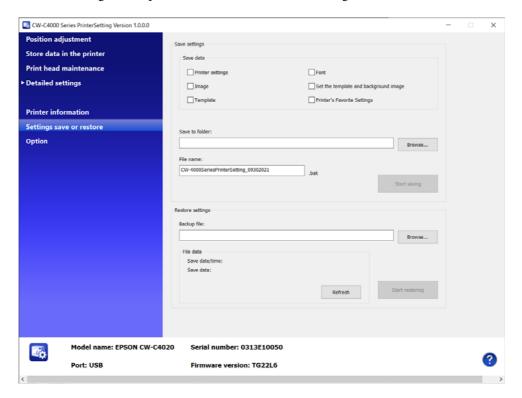
# Printer settings list

The "Printer settings list" window appears when you click [View...]. You can save the settings as a file by clicking [Output to file...].



## Settings save and restore

Allows you to save the settings of the printer and restore the saved settings.



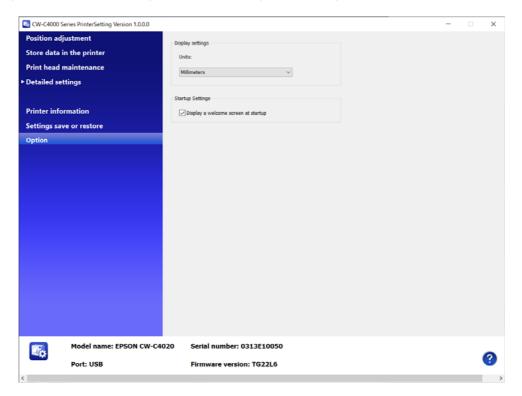
	Item	Description		
Save settings	Save data	Select setting items to save. Select the check box for the items.		
	Save to folder	Specify a folder to save the file.		
	File name	Enter a file name.		
	Start saving	Click [Start saving] after selecting items to save, specifying a file name and a folder to save. The selected settings will be saved.		
Restore settings	Backup file	Select a setting file you have saved.		
	File data	Information of the selected file is displayed.		
	Start restoring	Click [Start restoring] after selecting a file to restore. The settings of the selected file will be applied.		



It may take time depending on the size of the file.

## Option

A unit of length used in PrinterSetting and start up setting can be changed.



Item		Description
Display settings	Units	Select a unit of length.
Startup Settings	Display a welcome screen at startup	Select whether to display welcome screen at startup.



The [Units] setting is for PrinterSetting itself. It cannot be applied to the printer and the printer driver.

# **Operation Panel Settings**

The following tables show the menu items and options available on the operation panel with their default settings and whether they can be locked with Lock Setting of the System Administration settings. For more details about the Lock Setting, see "Restricting Operation of the Operation Panel (Lock Setting function)" on page 249.

					Lock Setting		
	Setting menu	Settings	Default	General Settings	Printer Settings	Media Settings	
Me	edia Settings						
	Media Type						
		Plain Paper	Matte Paper	-	-	~	
		Matte Paper		-	-	~	
		Synthetic		-	-	~	
		Texture Paper		-	-	~	
		Wristband		-	-	~	
		Glossy Paper		-	-	~	
		Glossy Film		-	-	~	
		High Glossy Paper		-	-	~	
	Media Form		<b>-</b>				
		Die-cut Label	Die-cut Label	-	-	~	
		Full-page Label		-	-	~	
		Continuous Paper		-	-	~	
		Wristband		-	-	~	
	Media Detect		1				
		Gap	Gap	-	-	~	
		Black Mark		-	-	~	
		None		-	-	~	
	Media Source		L		1	1	
		Internal	Internal	-	-	~	
		Rear Feed		-	-	~	
	Media Shape						
		Roll	Roll	-	-	~	
		Fanfold		-	-	~	
			1		1	1	

				Lock Setting		
Setting menu		Settings	Default	General Settings	Printer Settings	Media Settings
Media l	Layout					
Wie	dth					
	Die-cut Label/ Full-page Label	21.4-108.0[mm]/ 0.84-4.25[inch]	108 mm/ 4.25 inch	-	-	~
	Continuous Paper/ Wristband	25.4-108.0[mm]/ 1.00-4.25[inch]	108 mm/ 4.25 inch	-	-	V
Ler	ngth		•			•
		8.0-406.4[mm]/ 0.31-16.00[inch]	174.8 mm/ 6.88 inch	-	-	~
Int	erpage Gap		<u> </u>	•	1	•
	Die-cut Label	2.0-6.0[mm]/ 0.08-0.24[inch]	3[mm]/ 0.12[inch]	-	-	~
	Other than Die-cut Label	0.0-6.0[mm]/ 0.0-0.24[inch]	0[mm]/0[inch]	-	-	~
Print Po	osition Adjustment		1	1		I
* Ac	o Position Ijust the print start position the media	-10.9 to +10.9[mm] / -0.43 to +0.43[inch]	0[mm]/0[inch]	-	-	~
* Ac	t Position Ijust the print start position the media	-1.5 to +1.5[mm] / -0.06 to +0.06[inch]	0[mm]/0[inch]	-	-	~
	per Top Position justment	0.0 to 3.0[mm] / 0.0 to 0.12[inch]	0[mm]/0[inch]	-	-	~
Media :	Size Notice	'	<b>'</b>	•		
		On	Off	-	-	~
		Off		-	-	~
		1	1	<u> </u>	L	<u> </u>

			Lock Setting			
Setting menu	Settings	Default	General Settings	Printer Settings	Media Settings	
t Settings			•	<u> </u>		
Media Type						
	Plain Paper	Matte Paper	~	-	-	
	Matte Paper		~	-	-	
	Synthetic		~	-	-	
	Texture Paper		~	-	-	
	Wristband		~	-	-	
	Glossy Paper		~	-	-	
	Glossy Film		~	-	-	
	High Glossy Paper		~	-	-	
Color Adjustment Mode						
	EPSON Vivid Color	EPSON Vivid	~	-	-	
	EPSON Preferred Color	Color	~	-	-	
	None		~	-	-	
Print Quality			1	<u> </u>		
	Max Speed	Depend on the media you use	~	-	-	
	Speed		~	-	-	
	Normal		~	-	-	
	Quality		~	-	-	
	Max Quality		~	-	-	
Resolution		1	l	l	<u> </u>	
	200 dpi	600 dpi	~	-	-	
	300 dpi		~	-	-	
	600 dpi		~	-	-	
Command Character				I		
Control Prefix	0X20 to 7E	0X7E	~	-	-	
Format Command Prefix	0X20 to 7E	0X5E	~	-	-	
Delimiter Characters	0X20 to 7E	0X2C	~	-	-	

			Lock Setting			
Setting menu	Settings	Default	General Settings	Printer Settings	Media Settings	
intenance						
Print Head Nozzle Check	-	-	-	-	-	
Print Head Cleaning	-	-	-	-	-	
Power Cleaning	-	-	-	-	-	
Ink Cartridge Replacement	-	-	-	-	-	
Replace Maintenance Box	-	-	-	-	-	
Print Head Alignment		•	•			
	Vertical Alignment	-	-	~	-	
	Horizontal Alignment		-	~	-	
Calibration	1					
	Simple Media Detect	-	-	~	-	
	Media Detect	_	-	~	-	
Nozzle check settings	I.					
Nozzle check settings	On	On	-	~	-	
	Off		-	~	-	
Nozzle Check Interval	1to 9999 [copies]	100 [copies]	-	~	-	
Operation At Clogged	Notify	Continue	-	~	-	
Nozzle	Continue print	Printing	-	~	-	
Threshold Of Clogged Nozzles	0 to 16 [nozzles]	2 [nozzles]	-	~	-	
Cleaning After Nozzle	On	On	-	~	-	
Check	Off		-	~	-	
Clear All Settings	-	-	-	~	-	
Periodic Cleaning	00:00 to 23:59 (in increments of 1 min.)	00:00	-	~	-	
Ink Discharging	-	-	-	~	-	

			Lock Setting		
Setting menu	Settings	Default	General Settings	Printer Settings	Media Settings
neral Settings			1		
Basic Settings					
LCD Brightness	1 to 5	5	~	-	-
Sound	-		1	<b>!</b>	I
	Off	Max	~	-	-
	Low		~	-	-
	Medium		~	-	-
	High		~	-	-
	Max		~	-	-
Error Notice		I			
Error Notice	On	On	V	-	-
	Off		~	-	-
Repeat Error N	lotice On	Off	V	-	-
	Off		~	-	-
Length Unit					
	mm	mm	V	-	-
	inch		~	-	-
Max Data Wait Tim	ne				
	1 to 15 seconds	3.0 seconds	V	-	-
Platen Vacuum Fu	n				
Stop at Sleep	-	Use Stop Timer	V	-	-
Use Stop Time	r 1 to 900 seconds		~	-	-
Sleep					
Settings	On	On	V	-	-
	Off			_	_
Sleep Timer	1 to 720 minutes	15 minutes	<i>V</i>	_	_
Circuit Breaker Inte					
	On	Off	V	_	_
	Off		~	_	_

			Lock Setting		
Setting menu	Settings	Default	General Settings	Printer Settings	Media Settings
Date/Time Settings					
Date/Time	-	-	~	-	-
Daylight Saving	Winter	Winter	~	-	-
Time	Summer		~	-	-
Time Difference	+13:45 to -12:45 (in increments of 15 min.)	-	~	-	-
Language	•		•		
	Nederlands	English	-	-	-
	English		-	-	-
	Français		-	-	-
	Deutsch		-	-	-
	Ελληνικά		-	-	-
	Italiano		-	-	-
	日本語		-	-	-
	한국어		-	-	-
	Polski		-	-	-
	Português		-	-	-
	Русский		-	-	-
	简体中文		-	-	-
	Español		-	-	-
	繁體中文		-	-	-
	Türkçe		-	-	-
Background Color		•	•		
	Gray	White	-	-	-
	Black		-	-	-
	White		-	-	-
Keyboard			•		•
	QWERTY	QWERTY	-	-	-
	AZERTY		-	-	-
	QWERTZ		-	-	-

				Lock Setting		3
Setting menu		Settings	Default	General Settings	Printer Settings	Media Settings
Со	ntrol Panel Button Sett	ings				
	Cut					
		Enable	Enable	~	-	-
		Disable		~	-	-
	Cancel		1	1		
		Enable	Enable	~	-	-
		Disable		~	-	-
	Feed			1	<u> </u>	
		Enable	Enable	~	-	-
		Disable		~	-	-
rinter	Settings					
lm	age Quality					
	Manual Color Adjustr	nents				
	Light	-25 to +25	0	-	~	-
	Saturation	-25 to +25	0	-	~	-
	Contrast	-25 to +25	0	-	~	-
	Tone -Cyan	-25 to +25	0	-	~	-
	Tone - Magenta	-25 to +25	0	-	~	-
	Tone -Yellow	-25 to +25	0	-	~	-
	Ink Profile	-6 to +4 (in increments of 1)	0	-	~	-
	Ratio of Black to Composite	-6 to 0 (in increments of 1)	* Changes to "-2" with matte black, Plain Paper, Matte Paper or Texture Paper, Print Quality is Speed, Normal, or Quality	-	V	-
	Dry Time	0 to 5 sec. (in increments of 0.1 sec.)	0 sec.	-	~	-
	Nozzle Verification Te	chnology	•	•		•
		Enable	Enable	-	~	-
		Disable		-	~	-
	Bar Width Adjustment	- 2 to +2 (in increments of 1)	0	-	V	-

				Lock Setting		
S	etting menu	Settings	Default	General Settings	Printer Settings	Media Settings
P	rint Options		•	•		
	Print Mode					
	Cut		Stop at Cut	-	~	-
	Stop at Cut Posi	tion	Position	-	~	-
	Stop at Peel-Off	Position		-	~	-
	Stop at Print En	d Position		-	~	-
	Cut Position	-10.8 to +10.8[mm] / -0.425 to +0.425[inch]	0[mm]/ 0[inch]	-	~	-
	Reprint				I	l
		Enable	Enable	-	~	-
		Disable		-	~	-
	Media Hold Pressure	2				l
		Auto	Auto	-	~	-
		Manual (1 to 10)		-	~	-
	Cancel Action					
		Job ONLY	Job ONLY	-	~	-
		Job/RAM Drive		-	~	-
	Actions when Repla	cing Media				
		Feed	Feed	-	~	-
		Not Feed		-	~	-
		Calibration		-	~	-
		Short Calibration		-	~	-
		Check Media Size		-	~	-
	Actions on Power O	n				L
		Feed	Not Feed	-	~	-
		Not Feed		-	~	-
		Calibration		-	~	-
		Short Calibration		-	~	-
		Check Media Size		-	~	-

					Lock Setting			
Setting menu		menu	Settings	Default	General Settings	Printer Settings	Media Settings	
letwo	rk Setti	ngs		•				
Wi	-Fi Setu	ıp						
	Router Wi-Fi Setup							
		Vi-Fi Setup Vizard	-	-	~	-	-	
		ush Button etup (WPS)	-	-	~	-	-	
	С	thers	PIN Code Setup (WPS)	PIN Code Setup	~	-	-	
			Wi-Fi Auto Connect	(WPS)	~	-	-	
			Disable Wi-Fi		~	-	-	
1	Wi-Fi	Direct	l		I	L		
	iC	OS	-	-	~	-	-	
		Other OS Devices	-	-	~	-	-	
	N	1enu						
		Change Net	work Name	-	~	-	-	
		Change Pass	sword	-	~	-	-	
		Change	2.4 GHz	2.4 GHz	~	-	-	
		Frequency Range	5 GHz		~	-	-	
		Disable Wi-F	i Direct	-	~	-	-	
		Restore Defa	ault Settings	-	~	-	-	
Wi	red LAN	N Setup			1	<u>l</u>		
Ne	twork S	Status						
			Wired LAN/Wi-Fi Status	-	~	-	-	
			Wired LAN Status	-	~	-	-	
			Wi-Fi Direct Status	-	~	-	-	
			Print Status Sheet	-	~	-	-	
Co	nnectio	on Check	<u>I</u>	-1	ļ	<u> </u>	<u> </u>	

				Lock Setting		
Sett	ing menu	Settings	Default	General Settings	Printer Settings	Media Settings
Adva	anced					
	Device Name	-	-	~	-	-
	TCP/IP	-	-	~	-	-
	Proxy Server	-	-	~	-	-
	IPv6 Address					
		Enable	Enable	~	-	-
		Disable		~	-	-
	Link Speed & Duplex					
		Auto	Auto	~	-	-
		10BASE-T Half Duplex		~	-	-
		10BASE-T Full Duplex		~	-	-
		100BASE-TX Half Duplex		~	-	-
		100BASE-TX Full Duplex		~	-	-
	Redirect HTTP to HTT	PS				
	Enable		Enable	~	-	-
		Disable		~	-	-
	Disable IPsec/IP Filtering	-	-	~	-	-
	Disable IEEE802.1X	-	-	~	-	-

	Setting menu				Lock Setting		
			Settings	Default	General Settings	Printer Settings	Media Settings
S	ystem	Administration		1	1	•	l
	Cle	ear Internal Memory Ita	-	-	~	-	-
	Se	curity Settings	•				
		Admin Settings					
		Admin Password	I				
			Change	-	~	-	-
			Restore Default Settings	-	~	-	-
		Lock Setting		-1			L
			On	Off	~	-	-
			Off		~	-	-
		General Set	tings		1		
			On	-	~	-	-
			Off	*Fixed to "On" when Lock Setting is set to On.	~	-	-
	Printer Settin		ngs	1			
			On	Off	~	-	-
			Off		~	-	-
		Paper Settir	ng	-1			L
			On	Off	~	-	-
			Off		~	-	-
		Password	On	Off	~	-	-
		Encryption	Off		~	-	-
	Re	LL store Default Settings	1		<u> </u>		
	Network Settings		-	-	~	-	-
	Media Detect		-	-	~	-	-
	All Settings		-	-	~	-	-
Langi	uage		-	-	-	-	-
Favor		tting	-	-	-	-	-
Supp			-	-	-	-	-
<u> </u>	Supply Status			1	L	1	l

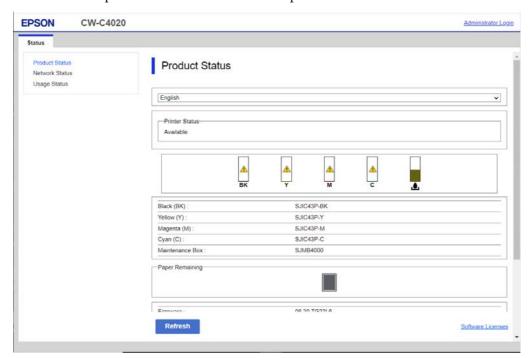
					Lock Setting		
	Setting menu	Settings	Default	General Settings	Printer Settings	Media Settings	
Printe	er Status/Print	•					
F	irmware Version	Printer	-	-	-	-	
Р	rint Status Sheet		•	-1	•	•	
	Configuration Status Sheet	-	-	-	-	-	
	Font List	-	-	-	-	-	
	Supply Status Sheet	-	-	-	-	-	
	Usage History Sheet	-	-	-	-	-	
	PS3 Status Sheet	-	-	-	-	-	
N	etwork	-	-	-	-	-	
N	laintenance Counters		•	-1	•	•	
	Total Length	-	-	-	-	-	
	Length 1	-	-	-	-	-	
	Length 2	-	-	-	-	-	
	Total Pages	-	-	-	-	-	
	Pages 1	-	-	-	-	-	
	Pages 2	-	-	-	-	-	
	Total CR	-	-	-	-	-	
	Ink Path Valve	-	-	-	-	-	
А	uto Cut Counter	- 1	-1		l		
		Total Auto Cut	-	-	-	-	
		After Replacement (Reset Counter)	-	-	-	-	
		Unit Replacement	-	-	-	-	
		Previous Replacement Date	-	-	-	-	

# WebConfig

WebConfig is an application software that allows you to check or change the printer settings using a web browser on a computer.

To use WebConfig, you need to set up an IP address to the printer in advance.

Connect the computer to the same network as the printer.



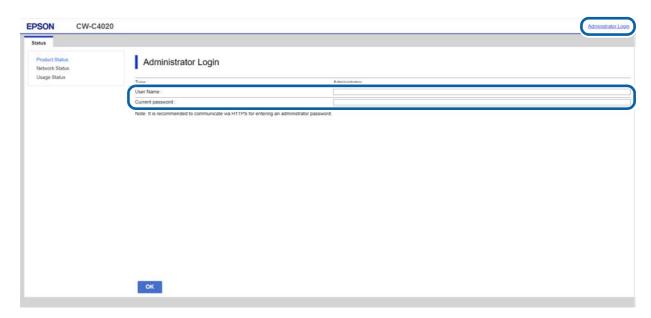


- You can set an administrator password to the printer to prevent the unintended changes being made to the printer settings. For more details, see "Restricting Operation of the Operation Panel (Lock Setting function)" on page 249.
- It is not possible to set the administrator logon to be unnecessary. If you forget the administrator password, you can initialize it. ("Resetting the Administrator Password" on page 250)

# **How to Start WebConfig**

Start a web browser on a computer or device that is connected via a network, and then type the printer IP address into the browser.

To change the printer settings, log in from [Administrator Login] on the upper right corner of the screen. The default values for the password is the serial number of the printer.



Enable the JavaScript on the browser. Because the communication with the printer uses a self-signed certificate of the printer over HTTPS, a warning message is displayed on the browser when you start WebConfig.

#### **Communication over HTTPS**

IPv4: https://IP address of the printer IPv6: https://[IP address of the printer]

### **Communication over HTTP**

IPv4: http://IP address of the printer IPv6: http://[IP address of the printer]

### **Examples**

IPv4:

https://192.0.2.111/

http://192.0.2.111/

IPv6:

https://[2001:db8::1000:1]/ http://[2001:db8::1000:1]/

# **Epson Device Admin**

Epson Device Admin is multifunctional software that allows you to manage printers on a network.								
It offers the following functions.								
☐ Monitoring and managing networked printers								
☐ Issuing a detailed report on consumables and printer status								
☐ Updating printer's firmware								
☐ Installing a new networked printer								
☐ Configuring various settings of a networked printer								
☐ Configuring various settings of multiple networked printers at a time								
You can download Epson Device Admin from the Epson website.								
For the CW-C4000 Series printers, Epson Device Admin supports Ethernet connection only. It cannot be used if the printer is connected via USB.								
IMPORTANT								

# **Spot Color Settings**

[Spot Color Settings] allows you to change a specified color to another specified color. First create the color conversion setting file, then when printing, specify the setting file to print with the color conversion applied. Follow the procedure below to create the color conversion setting file.

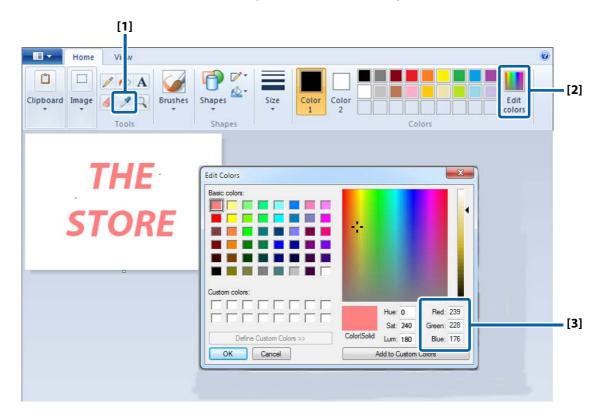


The printer converts all the portions of print data that use the specified RGB settings into the target color. If unintended portions are converted into the target color, slightly change the RGB settings of the portions to make them not to be converted.

### **Creating Spot Color Setting File**

1 Check the RGB settings of a color you want to convert into another color in the print data.

The check method for Microsoft Paint is explained here as an example.



- [1] Select the Picker tool, and then click on a color you want to check.
- [2] Click the [Edit Colors] button to display the Edit Colors window.
- [3] Check the RGB settings of the selected color, and write them down.



The method to check the RGB settings differs by graphic software to another. See the manual or help of the software you use.

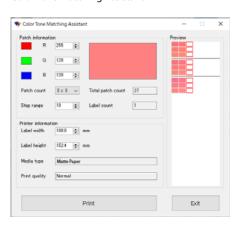
### **Determine RGB settings of a target color.**



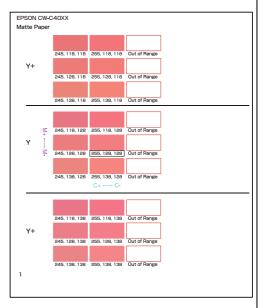
To determine the target color, it is recommended to use "Color Tone Matching Assistant" bundled in the included software disc.

Color Tone Matching Assistant lets you enter the RGB settings of the original color, creates some sample colors by slightly changing the original RGB settings, and then lets you print the samples. You can choose a target color and know its RGB settings on the printout. For more details, see "Color Tone Matching Assistant User's Guide".

Color Tone Matching Assistant



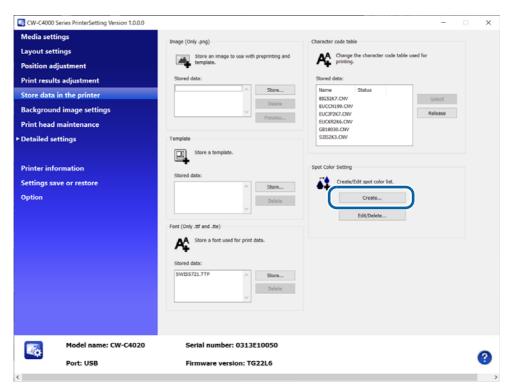
Example of the Sample Colors



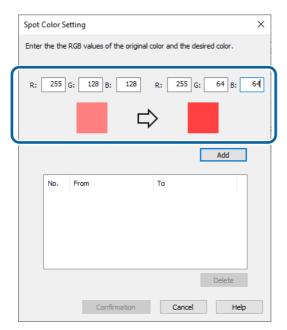
# **Start PrinterSetting.**

("How to Start PrinterSetting" on page 168)

- Select [Store data in the printer].
- Click [Create] button in the [Spot color table] field.

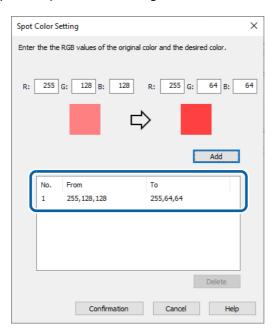


**6** Enter the original RGB settings and the target RGB settings.



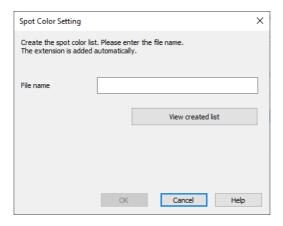
### **7** Click [Add].

The specified pair of RGB settings will be added in the box.

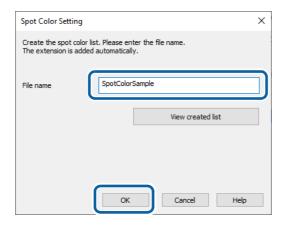


# **Q** Click [Confirmation].

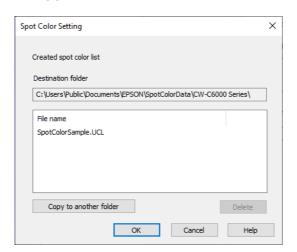
A window to enter a name for the spot color setting is displayed.



Enter a name for the setting file, then click [OK].



# 10 When you select [OK] on a successfully saved dialog box, the [Created spot color list] window appears.



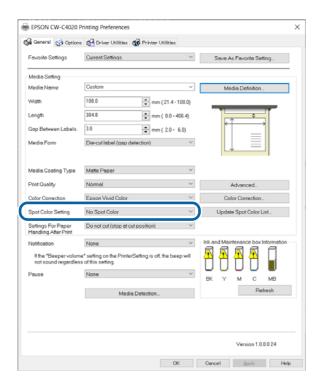


If you want to copy the file to another location, click [Copy to another folder].

Creating spot color setting file is now complete.

# **Printing using the Spot Color Setting File**

- Open the printer driver window.
- Select [Spot Color Settings] on the [General] window.



**?** From the pull-down menu, select a spot color setting file you want to use.



To change the folder to view, click [Update Spot Color List] and change the folder.

### Print the file.

The printer driver prints the file after performing the color conversion as specified in the setting file.

Printing using the spot color setting file is now complete.

# **Color Correction**

There are the following three methods for color correction.

- Setting on the printer
- Setting using OS
- Setting using an application software

According to which method you use, set [Color Correction Mode] of the printer driver as follows.

- Setting on the printer: Set to [Vivid colors]
- Setting using OS: Set to [ICM] for Windows, Set to [ColorSync] for Mac
- Setting using an application software: Set to [No composite]

### **Setting on the Printer**

### **Epson Vivid Color**

"Epson Vivid Color" conforms to the Adobe RGB color space for images, which has a wider color reproduction range than sRGB, but in order to bring the colors of the print result closer to the monitor, you need to prepare a monitor that is compatible with Adobe RGB.

# **Epson Preferred Color**

"Epson Preferred Color" conforms to the sRGB color space for images. The color reproduction range is narrower than Adobe RGB, but the colors of printed results are close to those shown on common monitors.

This is the same color correction method as TM-C3500, so select this option when you want to replace printer from TM-C3500 without changing the output result.

There are more restrictions on the combination of paper type and print quality compared to "Epson Vivid Color".

### **Restrictions when using Epson Preferred Color**

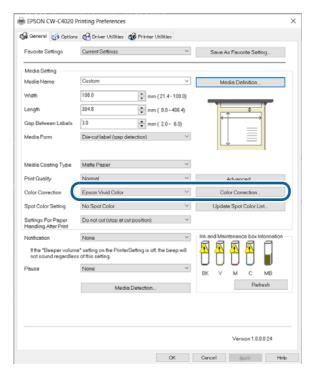
The "Epson Preferred Color" option is only available with the following paper types and print quality combinations.

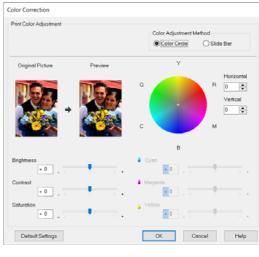
	Max Speed	Speed	Normal	Quality	Max Quality
Plain paper	~	V	-	-	-
Matte paper	-	V	~	-	-
Synthetic paper	-	V	~	-	-
Texture paper	-	-	-	-	-
Wristband paper	-	V	-	-	-
Glossy paper	-	-	~	-	-
Glossy film	-	-	-	-	-
High glossy paper	-	-	-	-	-

### **Correction Method**

If you select [Epson Vivid Color] or [Epson Preferred Color] from the [Color Correction] menu, and click the [Color Correction] button, the [Color Correction] window is displayed.

Adjust the color as desired comparing the "Original Picture" image and the "Preview" image.





ltem		Description		
Brightness		Lets you adjust brightness of the entire image.		
Contrast		Adjust the contrast of the entire image.  When the contrast is increased, bright portions become more bright, and dark portions become more dark.  When the contrast is decreased, difference between light and dark is reduced.		
Saturation		Lets you adjust saturation (vividness) of the entire image.  When the saturation is increased, the feel of the vividness of the image is increased.  The more the saturation is decreased, the more the image becomes achromatic closing to gray.		
Color Adjustment Method	Color Circle	Click on the circle to adjust the color. You can also adjust color by entering values in the [Horizontal and [Vertical] boxes.		
Metriod	Slide Bar	You can move the Cyan, Magenta, and Yellow slide bars to adjust color.		

# **Setting using OS**

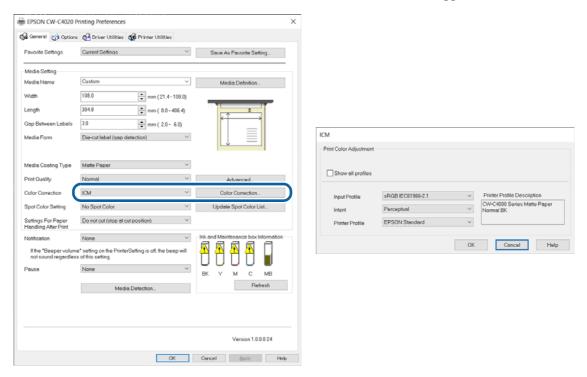
### **ICM**

ICM (Image Color Management) is a Windows color control function to match apparent color between different devices such as a monitor and a printer. Apparent color on the monitor and on the printout is matched based on ICC profiles.

An ICC profile is a file that describes characteristics of the device such as a monitor and a printer according to ICC (International Color Consortium) standards.

However, since the color space of a four-color printer is narrow comparing to that of a monitor, it is impossible to accurately match colors on the monitor with printouts.

When you click the [Color Correction] button with [ICM] selected, the ICM window appears.



Item	Description
Show all profiles	When the printer driver is installed, ICC profiles for Epson genuine paper are also installed. The ICC profiles include all combinations of [Media Coating Type] and [Print Quality] for each Epson paper.
	Since the check box for this item is not checked by default, the [Input Profile] setting is fixed to [sRGB IEC61966-2-1], and the [Printer Profile] setting is fixed to [EPSON Standard]. With the default settings, one of the ICC profiles for Epson paper is automatically selected according to the [Media Coating Type] and [Print Quality] settings.
	Select this check box when using paper other than Epson genuine paper and you have installed an ICC profile for the paper.
	When the check box is selected, the pull-down menu of [Input Profile] and [Printer Profile] shows all profiles installed on the system. Select the target ICC profile from the [Printer Profile] menu.

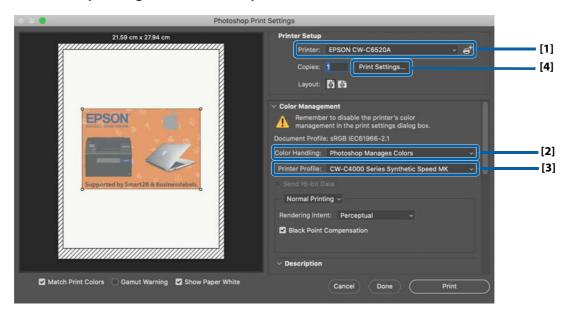
	Item	Description		
Input Profile		Select a profile for a display device.  Normally, only "sRGB IEC61966-2-1", which is the default of Windows OS, is displayed.		
Intent	Saturation	Color is converted keeping the saturation.		
	Perceptual	Color is converted keeping natural-looking image. Select this when color space of the image is wide.		
	Relative Colorimetric	Color is converted so that chromatic coordinate between the original data and the print data matches, and the white point (color temperature) also matches between them. This method is used a lot for color matching.		
	Absolute Colorimetric	Color is converted assigning both the original and print data to absolute chromatic coordinate. The white point (color temperature) of the original and print data is not corrected. Use this method to print an image that has a specific color such as a corporate logo.		
Printer Profile		Select a printer profile that matches the media you use. Normally, only [EPSON Standard] is displayed. [EPSON Standard] automatically selects an ICC profile for Epson genuine paper that matches the [Media Coating Type] and [Print Quality] settings on the printer driver.		

### ColorSync

"ColorSync" is a Color Matching engine on macOS. That is similar to ICM on Windows.

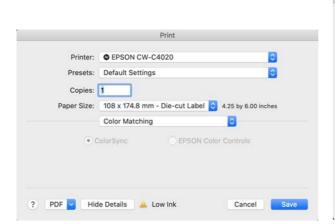
The following describes how to set an ICC profile using ColorSync taking Adobe Photoshop (hereafter, Photoshop) and other popular apps as examples.

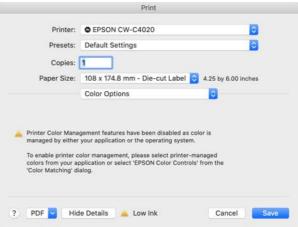
### The case of the printing from Photoshop



- Select the printer queue to [Printer] menu.
- 2 Select [Photoshop Managed Color] to [Color Handling] menu.
  You cannot get the printing output with the color matching, if you select [Printer Managed Colors].
- 3 Select the suitable output ICC profile to [Printer Profile] menu.
- 4 Click [Print Settings], then select the print settings of the printer driver.

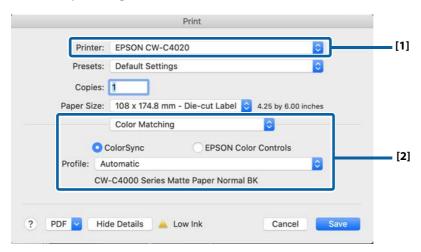
  The controls on [Color Matching] and [Color Options] are fixed, and you cannot change those.





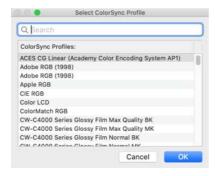
- Select other print settings of Photoshop print window.
- 6 Click [Print] button.

### The case of the printing from Preview



- Select the printer queue to [Printer] menu.
- 2 Select [ColorSync] on [Color Matching] pane, then select the suitable output ICC profile to [Profile] menu.

The suitable output ICC profile provided by Epson is selected automatically, when you select [Automatic]. Select [Other Profiles] to open the [Select ColorSync Profile] window. You can select other output ICC profile by that window.



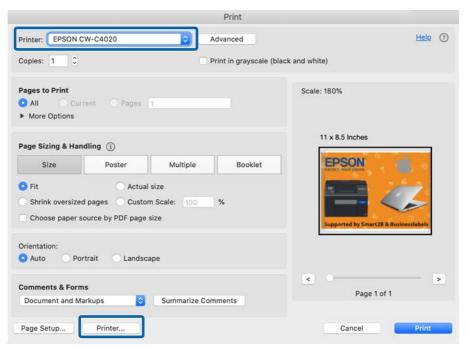
- **3** Select other print settings of the printer driver.
- Click [Print] button.

### The case of the printing from Acrobat Reader

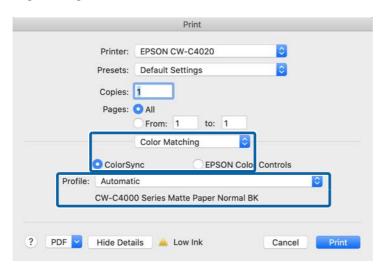


### **Notes on using ColorSync**

- The PDF data must be RGB data. CMYK data cannot be corrected properly.
- If a source profile (input profile) has not been embedded in the print data, "sRGB IEC61966-2.1" is automatically applied as the source profile.
- The rendering intent is fixed to "Perceptual".
- Select the printer in [Printer], and then click [Printer...] at the bottom of the screen.

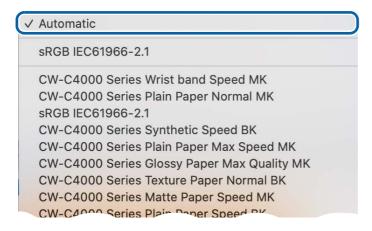


# Select [ColorSync] as the [Color Matching] option, and then select a proper ICC profile in [Profile].



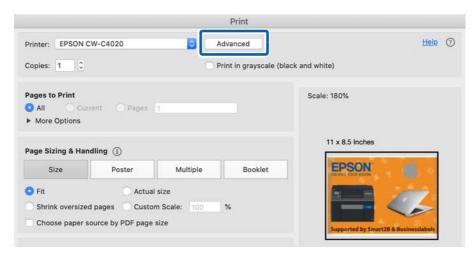
The default profile setting is [Automatic] which automatically selects an ICC profile provided by Epson.

Select [Other Profiles...] to display the ColorSync profile selection screen and select a target ICC profile by yourself.

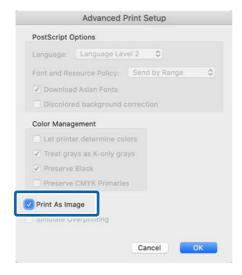


# Select other print settings.

Click [Advanced].



Select the checkbox for [Print As Image], and then click [OK].



6 On the [Print] screen, click the [Print] button.

# **Creating an ICC Profile**

### What is ICC Profile?

An ICC profile is a file (file extension is .icc) that describes information for controlling colors according to the International Color Consortium (ICC) definition. Printout colors change significantly depending on the paper type and print mode.

CW-C6500/6000 Series offer you the ICC profiles for each Epson genuine paper covering all combinations of paper types and print quality settings (print mode). The ICC profiles are stored in the folder shown below when the Windows printer driver is installed.

 $C: \Windows \System 32 \spool \drivers \color$ 

If you use paper other than Epson genuine paper, you need to prepare an ICC profile for the paper by yourself.

### ICC Profiles provided for CW-C4000 Series

Media Name	Print Quality	Ink Type	ICC Profile Name
Plain Paper	Max Speed	Gloss	CW-C4000Series_PlainPaper_MaxSpeed_BK.icc
		Matte	CW-C4000Series_PlainPaper_MaxSpeed_MK.icc
	Speed	Gloss	CW-C4000Series_PlainPaper_Speed_BK.icc
		Matte	CW-C4000Series_PlainPaper_Speed_MK.icc
	Normal	Gloss	CW-C4000Series_PlainPaper_Normal_BK.icc
		Matte	CW-C4000Series_PlainPaper_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_PlainPaper_Quality_BK.icc
		Matte	CW-C4000Series_PlainPaper_Quality_MK.icc
Matte Paper	Max Speed	Gloss	CW-C4000Series_MattePaper_MaxSpeed_BK.icc
		Matte	CW-C4000Series_MattePaper_MaxSpeed_MK.icc
	Speed	Gloss	CW-C4000Series_MattePaper_Speed_BK.icc
		Matte	CW-C4000Series_MattePaper_Speed_MK.icc
	Normal	Gloss	CW-C4000Series_MattePaper_Normal_BK.icc
		Matte	CW-C4000Series_MattePaper_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_MattePaper_Quality_BK.icc
		Matte	CW-C4000Series_MattePaper_Quality_MK.icc

Media Name	Print Quality	Ink Type	ICC Profile Name
Synthetic	Max Speed	Gloss	CW-C4000Series_Synthetic_MaxSpeed_BK.icc
		Matte	CW-C4000Series_Synthetic_MaxSpeed_MK.icc
	Speed	Gloss	CW-C4000Series_Synthetic_Speed_BK.icc
		Matte	CW-C4000Series_Synthetic_Speed_MK.icc
	Normal	Gloss	CW-C4000Series_Synthetic_Normal_BK.icc
		Matte	CW-C4000Series_Synthetic_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_Synthetic_Quality_BK.icc
		Matte	CW-C4000Series_Synthetic_Quality_MK.icc
Texture Paper	Max Speed	Gloss	CW-C4000Series_TexturePaper_MaxSpeed_BK.icc
		Matte	CW-C4000Series_TexturePaper_MaxSpeed_MK.icc
	Speed	Gloss	CW-C4000Series_TexturePaper_Speed_BK.icc
		Matte	CW-C4000Series_TexturePaper_Speed_MK.icc
	Normal	Gloss	CW-C4000Series_TexturePaper_Normal_BK.icc
		Matte	CW-C4000Series_TexturePaper_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_TexturePaper_Quality_BK.icc
		Matte	CW-C4000Series_TexturePaper_Quality_MK.icc
Wristband	Max Speed	Gloss	CW-C4000Series_Wristband_MaxSpeed_BK.icc
		Matte	CW-C4000Series_Wristband_MaxSpeed_MK.icc
	Speed	Gloss	CW-C4000Series_Wristband_Speed_BK.icc
		Matte	CW-C4000Series_Wristband_Speed_MK.icc
	Normal	Gloss	CW-C4000Series_Wristband_Normal_BK.icc
		Matte	CW-C4000Series_Wristband_Normal_MK.icc
Glossy Paper	Normal	Gloss	CW-C4000Series_GlossyPaper_Normal_BK.icc
		Matte	CW-C4000Series_GlossyPaper_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_GlossyPaper_Quality_BK.icc
		Matte	CW-C4000Series_GlossyPaper_Quality_MK.icc
	Max Quality	Gloss	CW-C4000Series_GlossyPaper_MaxQuality_BK.icc
		Matte	CW-C4000Series_GlossyPaper_MaxQuality_MK.icc

Media Name	Print Quality	Ink Type	ICC Profile Name
Glossy Film	Normal	Gloss	CW-C4000Series_GlossyFilm_Normal_BK.icc
		Matte	CW-C4000Series_GlossyFilm_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_GlossyFilm_Quality_BK.icc
		Matte	CW-C4000Series_GlossyFilm_Quality_MK.icc
	Max Quality	Gloss	CW-C4000Series_GlossyFilm_MaxQuality_BK.icc
		Matte	CW-C4000Series_GlossyFilm_MaxQuality_MK.icc
High Glossy	Normal	Gloss	CW-C4000Series_HighGlossyPaper_Normal_BK.icc
Paper		Matte	CW-C4000Series_HighGlossyPaper_Normal_MK.icc
	Quality	Gloss	CW-C4000Series_HighGlossyPaper_Quality_BK.icc
		Matte	CW-C4000Series_HighGlossyPaper_Quality_MK.icc
	Max Quality	Gloss	CW-C4000Series_HighGlossyPaper_MaxQuality_BK.icc
		Matte	CW-C4000Series_HighGlossyPaper_MaxQuality_MK.icc

# **Procedure for Creating an ICC Profile**

When using paper other than Epson genuine paper, acquire an ICC profile of the paper provided by the paper manufacturer, or create an ICC profile for the paper by yourself.

To create an ICC profile, you need a colorimeter and a software program that generates an ICC profile. Example:

- ☐ X-Rite, Incorporated (https://xritephoto.com/)
  i1iO2 (colorimeter), i1Profiler (software program to generate an ICC profile)
- ☐ Datacolor company (https://www.datacolor.com/) SpyderPrint (print calibration tool)

Since detailed procedure varies depending on the device and software used, the following describes the general procedure. See the manual that came with the device and software for more details.

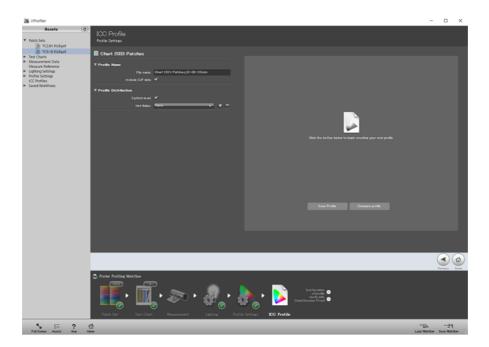
1 Start a software program that generates an ICC profile, and then print color patches for measurement on the paper you want to use.



Measure the printed color patches with a colorimeter.



# 3 Using the software program, generate an ICC profile according to the measured results.



# No composite

The [Color Correction] button is disabled when [Color Correction Mode] is set to [No composite]. Select [No composite] only when setting color correction on an application software. For instructions on how to set color correction on the software, see its manual or help.

# Processing Paper to Avoid Unprinted Labels

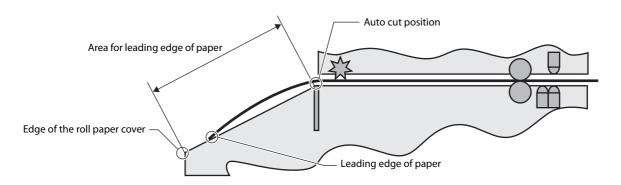
In the case of die-cut label paper or continuous paper (with black marks), the printer may feed the paper without printing on the first label, or may run out of paper despite the existence of unprinted labels. To avoid producing such unprinted labels, this section describes how to process the paper and make settings.

## Printing from the 1st Label

In order to detect the beginning of a page, the printer feeds paper by a certain amount after the paper is loaded. As a result, the printer may not be able to print on the first label. This section explains how to load and process the paper for printing from the first label.

### **Loading Paper**

When loading paper, check that the leading edge of the paper is in between the auto-cut position and the edge of the paper ejection table, and then close the roll paper cover.



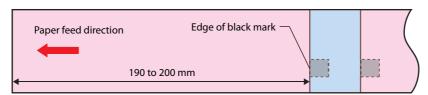
# **Roll Paper**

The following types/forms of paper can be used.

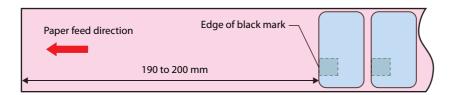
- Continuous paper (Black Mark)
- Die-cut label (Black Mark)
- Die-cut label (Gap)

#### How to process paper

Continuous paper (Black Mark)
 Place the first black mark 190 to 200 mm away from the leading edge of the paper.
 Do not place the black mark less than 190 mm from the leading edge of paper.



Die-cut label (Black Mark), Die-cut label (Gap)
 Place the first label 190 to 200 mm away from the leading edge of the paper.
 Less than 190 mm from the leading edge of the paper should be liner paper only, with no labels or black marks.



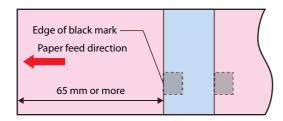
# **Fanfold Paper**

The following types/forms of paper can be used.

- Continuous paper (Black Mark)
- Die-cut label (Black Mark)

### How to process paper

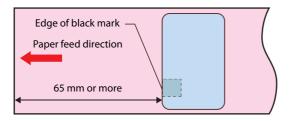
Continuous paper (Black Mark)
 Place the first black mark at least 65 mm away from the leading edge of the paper.
 Do not place the black mark less than 65 mm from the leading edge of paper.



• Die-cut (Black Mark)

Place the first label at least 65 mm away from the leading edge of the paper.

Less than 65 mm from the leading edge of the paper should be liner paper only, with no labels or black marks.



## Printing on the Last Label

There may still be printable labels left when no paper is detected. In order to print on the last label, this section explains how to set the printer driver and the printer and how to process the paper.

### **Checking the Printer Driver Settings**

Check that the printer driver is not set to [Do not cut (stop at peel position)] following the procedure below.

- **1** Open the printer driver window.
- Click [Media Definition] on the General tab.
- **Select the paper definition you want to use, and then click [Edit].**
- Check that the [Settings For Paper Handling After Print] setting is not set to [Do not cut (stop at peel position)].

### **Setting the Printer**

In PrnterSetting, enable the wrong paper notification setting. The procedure is as follows.

- 1 Open the printer driver window.
- 2 Select the Printer Utilities tab and then click [Printer Setting Utility]. The CW-C4020 PrinterSetting screen appears.
- Select [Detailed settings] [Notification Settings].
  The Notification Settings screen appears.
- ✓ Select [Notify the error] from the [Wrong Paper Notification] pull-down menu.
- 5 Click [Apply settings].

The setting is enabled.

# How to Process Roll Paper (TBD)

The following types/forms of paper can be used.

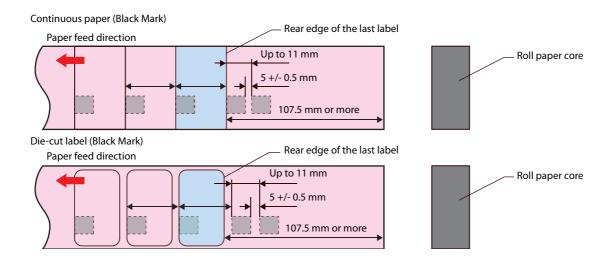
- Continuous paper (Black Mark)
- Die-cut label (Black Mark)
- Die-cut label (Gap)
- Die-cut label with transparent liner

### How to process paper

Continuous paper (Black Mark), Die-cut label (Black Mark)
 Leave a margin of at least 107.5 mm between the rear edge of the paper and the rear edge of the last ticket or label. Less than 107.5 mm from the rear edge of the paper should be liner paper only, with no labels. Place two black marks behind the last ticket or label to be printed.



If new print data is sent to the printer after the last ticket or label printing process (including auto cut) has been successfully completed, a paper size error will occur and the printer will stop while retaining the print data.

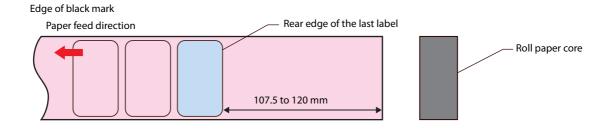


• Die-cut label (Gap), Die-cut label with transparent liner

Leave a margin of 107.5 to 120 mm between the rear edge of the paper and the rear edge of the last ticket or label. Less than 107.5 mm from the rear edge of the paper should be liner paper only, with no labels.



After the last ticket or label has been printed, a no paper error occurs and the printer stops.



# How to Process Fanfold Paper (TBD)

The following types/forms of paper can be used.

- Continuous paper (Black Mark)
- Die-cut label (Black Mark)

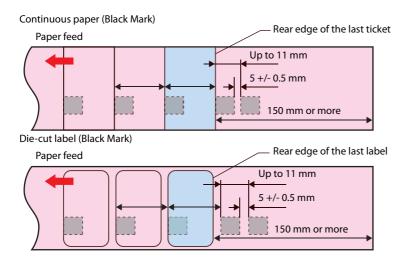
### How to process paper

Leave a margin of at least 150 mm between the rear edge of the paper and the rear edge of the last ticket or label. Less than 150 mm from the rear edge of the paper should be liner paper only, with no labels.

Place two black marks behind the last ticket or label to be printed.



If new print data is sent to the printer after the last ticket or label printing process (including auto cut) has been successfully completed, a paper size error will occur and the printer will stop while retaining the print data.



# Adjusting Sensitivity of the Detectors and Threshold for Detecting Labels

The printer is equipped with two detectors; one detects leading edge of each label and another one detects black marks.

If you have labels that cannot be detected by the printer, the labels may become detectable by changing sensitivity of the detectors and/or threshold for detecting labels.

Change the settings using the operation panel.

[Menu] - [Maintenance] - [Calibration]

### Simple Media Detect

Allows you to adjust the threshold for detecting labels. Since this adjustment can be made in a short time, perform this adjustment first.

#### **Media Detect**

Allows you to adjust the sensitivity of the detectors and the threshold for detecting labels. Perform this adjustment if your labels still cannot be detected after performing the [Simple Media Detect] adjustment.

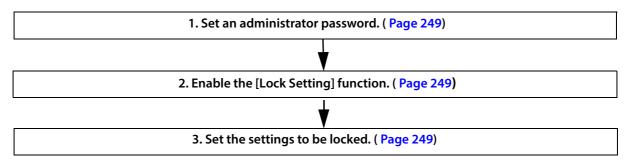
# Detecting Differences in Paper Size Using Label Command

This function is for the users who use label commands to print labels. Label commands include a command that detects differences in paper size. Use the function to detect aper size differences before printing starts.

# Restricting Operation of the Operation Panel (Lock Setting function)

The [Lock Setting] function allows an administrator to lock the paper settings, printer settings, and/or system administration related settings to prevent unauthorized changes.

The procedure is as follows



The following settings can be locked.

General Settings: Settings that are rarely changed once you configure them, such as the network settings and

datetime settings.

Media Settings: Settings related to media (paper)

Printer Settings: Menus for adjusting or maintaining the printer and the print settings

To know which menu or setting can be locked, see "Operation Panel Settings" on page 208.

### Setting an Administrator Password

The administrator password is set to the product serial number as the default value.

You can check the serial number on the status sheet. ("Printing Status Sheet" on page 32)

# **Enabling the [Lock Setting] Function**

Set an administrator password in advance.

- Select [Menu] [General Settings] [System Administration] [Security Settings] [Admin Settings] in that order.
- 2 Set [Lock Setting] to [On].
  Options that allow you to set which settings to lock are displayed.

3 Select the target options you want to lock, set it to [On], and then press the OK button.



When you set "Lock Setting" to "On", the "General Settings" option is automatically set to "On". You cannot set the "General Settings" option to "Off with "Lock Setting" set to "On".

When a confirmation message is displayed, select [Yes].

Once the Lock Setting is enabled, the administrator password is required when changing any one of the locked settings.

### **Changing the Administrator Password**

- Select [Menu] [General Settings] [System Administration] in that order.
- The current administrator password, and then select [OK] on the screen.
- **3** Select [Security Settings] [Admin Settings] [Admin Password] [Change] in that order.
- ▲ Enter the current administrator password, and then select [OK] on the screen.
- **5** Enter a new administrator password, and then select [OK] on the screen.
- 6 Enter the new password again, and then select [OK] on the screen.
- **7** When a message is displayed, press the OK button.

# **Resetting the Administrator Password**

If you forgot the password, reset the password following the procedure below.

- Press the (Home) button to display the home screen.
- **→** Hold down the **→** (back) button and  **iii** (cancel) button at the same time.
- When a confirmation message is displayed, select [Yes].
- **Enter** "1234", which is a password to unlock, and then select [OK] on the screen.
- When a message is displayed, press the OK button.

# Cleaning the Printer

This chapter describes how to carry out maintenance of the printer.

# **Cleaning the Exterior**



(TBD) Do not use alcohol, benzine, thinner, trichloroethylene, or ketone based solvent to clean the exterior of the printer.

Doing so may deform or damage the plastic and rubber parts.

- **1** Turn the printer off and then disconnect the power cable from the outlet.
- Wipe off any dirt with a dry cloth or cloth that has been slightly dampened.

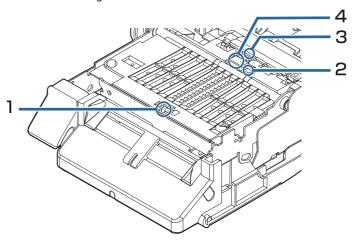
### **Cleaning the Platen**

If there is ink adhered to the platen, hands or paper may become dirty. Furthermore, if the holes in the platen become blocked by dirt, ink soiling inside the platen may occur.

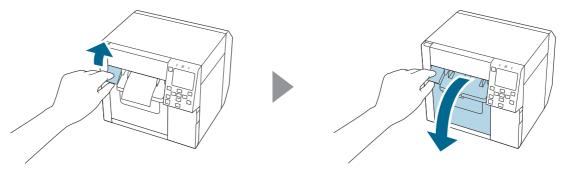
Use the non-woven fabric or cotton swabs to clean the platen by following the steps below.



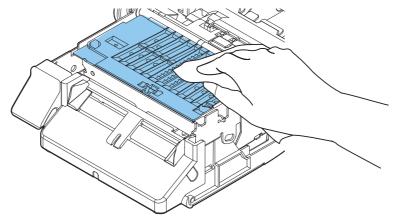
- Do not use water or alcohol.
- Take care not to change the position of the shutters on the platen. If the shutters are opened or closed incorrectly, paper may get jammed or be smudged with ink.
- Take care not to deform or damage the four sensors.



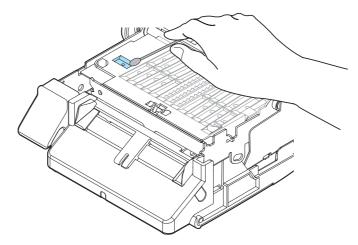
- **1** Turn the printer off and then disconnect the power cable from the outlet.
- **Open the front cover.**



- **Remove the roll paper or fanfold paper.**
- **⚠** Use the non-woven fabric for platen cleaning to clean the platen.



Use cotton swabs to clean the holes and around the holes. If the holes are blocked, be sure to remove the dirt to unblock the holes.



**6** Close the front cover.

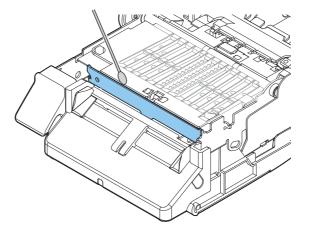
### **Cleaning the Auto Cutter**

The fixed blade of the auto cutter may become unable to cut cleanly due to the adhesive of label paper adhering to it.

Perform cleaning by following the steps below.

- **1** Turn the printer off and then disconnect the power cable from the outlet.
- Open the front cover and remove the paper.
- Remove the adhesive adhered to the fixed blade of the auto cutter on the front cover side.

Remove it with a cotton swab or the like dampened with alcohol.





Do not directly touch the fixed blade of the auto cutter. Doing so may cause injury to a finger.

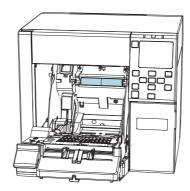
### Cleaning the Inside of the Printer (when Paper is fed from the Inside)

When printing on label paper feeding it from the roll paper set inside the printer, the adhesive of the label paper may adhere to the inside of the printer, resulting in poor print quality.

Please follow the procedure below to clean the printer.

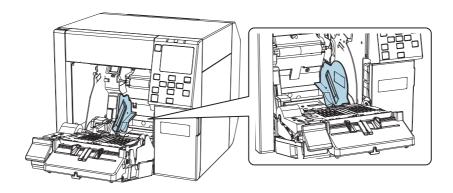
- **1** Turn off the printer and disconnect the power cable from the power outlet.
- **Open the front cover and remove the paper.**
- Remove any adhesive from the roller.

Use a cloth moistened with alcohol. While rotating the roller by hand, remove the adhesive and clean the entire roller.



Remove any adhesive that has adhered to the inner surface of the paper guides.

Use a cloth moistened with alcohol.



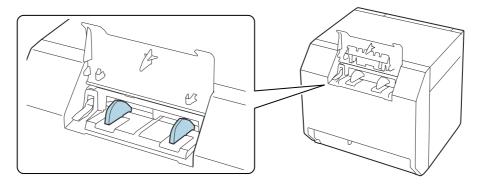
### Cleaning the Inside of the Printer (when Paper is fed from the Outside)

When printing on label paper feeding it from outside the printer, the adhesive of the label paper may adhere to the inside of the printer, resulting in poor print quality.

Please follow the procedure below to clean the printer.

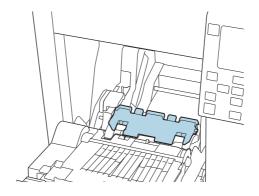
- **1** Turn off the printer and disconnect the power cable from the power outlet.
- Open the front cover.
- Open the rear cover and remove the paper.
- Remove any adhesive that has adhered to the inner surface of the fanfold paper guides.

Use a cloth moistened with alcohol.



Remove any adhesive that has adhered to the inner surface of the paper feed guide.

Use a cloth moistened with alcohol.





Do not press down hard on the paper feed guide. This may cause the paper feed guide to come off or be damaged.

### **Cleaning the Print Head**

If the nozzles are clogged, faint colors, banding, or unintended colors appear on printouts. When such print quality problems occur, print nozzle check patterns and check for nozzle clogging.

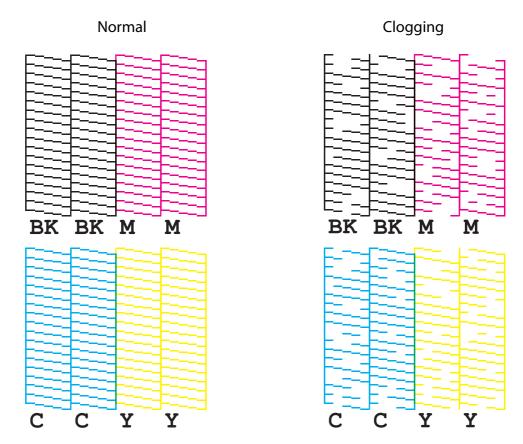


When printing the nozzle check pattern, load paper that is at least 21.4 mm (0.84") wide and 38.5 mm (1.52") long. Also, refer to the table below for the length of remaining paper required for printing.

#### IMPORTAN1

# The length of remaining paper required for printing the nozzle check pattern (from the auto cutting position to the paper end)

	Paper Form Paper Size	Full-page Label/Continuous paper (without gap/black mark detection)	Others (with gap/ black mark detection)
		<ul> <li>273 mm (10.8") (when the paper width is less than 39.0 mm (1.54"))</li> <li>197 mm (7.8") (when the paper width is 39.0 mm (1.54") or more)</li> </ul>	
When using included roll paper	Length: 174.8 mm (6.9")  Gap between pages: 3.0 mm (0.12")		296 mm (11.7")
When the maximum length is required	Length: 406.4 mm (16.0")  Gap between pages: 6.0 mm (0.24")		531 mm (20.9")



Example of the nozzle check patterns with gloss black ink

When the printed patterns show the nozzle clogging state, run a head cleaning.

### **Printing Nozzle Check Patterns**

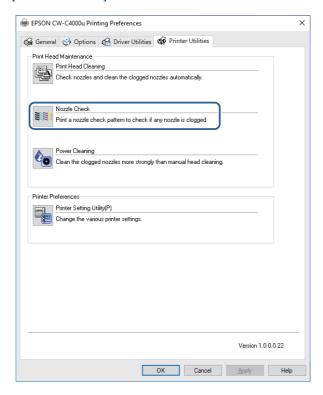
You can print the nozzle check patterns using the nozzle check function available from the operation panel or the printer driver.

#### **Using the Operation Panel**

[Menu] - [Maintenance] - [Print Head Nozzle Check]

### **Using the Printer Driver**

Click [Nozzle Check] on the [Printer Utilities] tab.



### **Print Head Cleaning**



- Do not turn off the power or open the covers during head cleaning. Doing so may cause printing malfunction.
- Do not run the head cleaning more than necessary. Ink is consumed because ink is discharged from the head to clean it.
- If there is not much ink remaining, head cleaning may not be possible. Replace the ink cartridges and then try again. ("Replacing the Ink Cartridges (p43)")

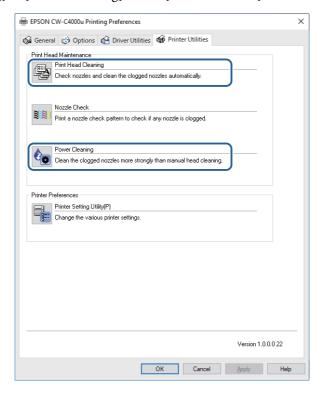
#### **Using the Operation Panel**

[Menu] - [Maintenance] - [Print Head Cleaning]

[Menu] - [Maintenance] - [Power Cleaning]

#### **Using the Printer Driver**

Click [Print Head Cleaning] or [Power Cleaning] on the [Printer Utilities] window.



#### **Using the WebConfig**

Select [Print Head Cleaning] on the [Maintenance] window. Then select the cleaning type from [Auto] or [Power Cleaning], and then click [Start].



You will be prompted to set an administrator password when WebConfig is started for the first time. Set the password on the setting page.

**IMPORTANT** 

### Storing the Printer After Ink is Charged

### **Storing the Printer for Long Periods**

If you need to store the printer for long periods after installing the ink cartridges, follow the procedure below.

1 Run the nozzle check to confirm that the print head nozzles are not clogging and there is no problem with the print quality. If the print quality is not good, run a print head cleaning.

See "Test Print" on page 69.



If you store the printer without solving the print quality problem (nozzle clogging), ink inside the nozzles may get hard and the print quality problem may become unrecoverable when you start using the printer again.



If you have transported the printer after installing the ink cartridges, nozzle clogging may occur due to vibrations applied to the printer during the transport.

When printing is finished, press the (1) (Power) button to turn off the printer.



Especially when storing the printer for long periods, make sure to turn it off using the (1) (Power)

#### **CAUTION**

**Store the printer in a cool and dark place.** 

For information about environmental requirements for storing the printer, see "Environmental Specifications" on page 325.



The printer has a storage life of up to six months.



Make sure to store the printer with all ink cartridges installed.

#### Transporting or Storing the Printer at -10°C (With Matte Black Ink Installed)

If the ambient temperature becomes -10°C or lower, the print head may be damaged. If -10°C or lower ambient temperature is expected, discharge ink in advance following the procedure below.



- Since ink is discharged to the maintenance box, the box needs to have enough remaining space
  for the discharged ink. If the remaining space in the box is not enough, have a new maintenance
  box ready for replacement.
- During the ink discharging work, keep the ambient temperature between 5 to 35 degrees C.
- While the printer is discharging ink, do not open any cover or turn off the printer.
- 1 If paper has been loaded, remove it.
- 2 Select the menus on the operation panel in the order shown below.
  [Menu] [Maintenance] [Ink Discharging]
- When a confirmation message is displayed, select [Start].
  Ink discharging is started. When discharging ink is finished, the printer is automatically turned off.



When you use the printer next time, you need to recharge ink to the printer.

When the printer is turned on, a confirmation screen for recharging ink appears. Select [OK] to start recharging ink. It takes about 5 to 14 minutes. When recharging ink is finished, a home screen appears.

### For Using the Printer after Long Storage

When using the printer after storing it for long periods, follow the procedure below.

1 Check the ink cartridges to see if they are expired.



Replace the ink cartridges with new ones in the following cases.

For instructions on how to replace the cartridges, see "Installing the Ink Cartridges" on page 42.

- Three years or more have passed from the manufacturing date.
- Six months or more have passed from when the cartridge was installed in the printer.
- Turn the printer on.

The auto self-check function checks the nozzles for clogging and run a cleaning.



**CAUTION** 

While the printer is running the print head cleaning, do not turn off the power or open the ink cartridge cover, front cover, paper cover, and the maintenance box cover.

Run the nozzle check to confirm that the print head nozzles are not clogging and there is no problem with the print quality.

# For Transporting the Printer

When transporting the printer, make sure to follow the guidelines below.



- Make sure to remove paper before transporting the printer.
- Do not remove the ink cartridges and the maintenance box for transporting the printer.
- When turning off the printer for transporting, make sure to turn off the printer with the (1) (Power) button
- Do not let the printer tilt to all directions by 10 degrees or more during transportation. Otherwise, the printer may fall down causing an accident.
- Do not let the printer upside down or lay on its side during transportation.

# Troubleshooting

# A message is displayed on the operation panel.

Message	Solution
Information Paper feed error. Load the paper or change the media source setting.	Use paper that matches the [Media Source] and [Media Form] settings.  Or change the [Media Source] and [Media Form] settings to match them with the loaded paper.  ("Paper Source and Paper Detection Settings" on page 77)
Information Cannot detect the paper with the specified [Media Detect] setting. Load paper that matches the setting or change the [Media Detect] setting.	Use paper that matches the [Media Detect] settings. Or change the [Media Detect] settings to match them with the loaded paper.  ("Paper Source and Paper Detection Settings" on page 77)
(On the home screen) Load paper.	Load paper. ("Loading Paper" on page 53)
Information The size of the loaded paper is incorrect. Replace the paper.	Load media that matches the print area size. Or change the print area to match it with the media size.  ("Loading Paper" on page 53)
Information Paper Out The roll paper is not loaded.	Load roll paper. ("Loading Paper" on page 53)
Information Paper Out The fanfold paper is not loaded.	Load fanfold paper. ("Loading Paper" on page 53)
Information Paper jam.	Remove the jammed paper and then load paper.  ("Paper Jam (p278)")
Information The paper has not been loaded correctly. Reload the paper.	Remove the paper, and then load the paper again.  ("How to Remove Paper" on page 67, "Loading Paper" on page 53)
Information Calibration failed. Press the OK button. Then reload or replace the paper.	Make sure that the paper loaded in the printer matches the paper detection method (gap or black mark), and reset the paper.  ("How to Remove Paper" on page 67)  Calibration is impossible if gap between pages exceeds 6 mm.  ("Paper Specifications" on page 310)  If the error still occurs, the detector cannot handle the paper. Replace the paper.
Information The paper has already been cut and cannot be cut.	This error occurs when you press the Cut button at the position where the paper is already cut.  Feed the paper by printing or pressing the Feed button to enable the Cut button.

Message	Solution
Maintenance Error The ink cartridge is not installed correctly.	Install an ink cartridge with a sufficient amount of ink remaining.  ("Replacing the Ink Cartridges" on page 43)
(On the home screen, an exclamation mark on the ink levels)	Prepare a new ink cartridge to be replaced with the low-ink-level cartridge. If you continue to use the low-ink-level cartridge, you may be required to replace it during printing.  If you replace the cartridge during printing, you may see a difference in color between colors printed by the old cartridge and colors printed by the new one due to a difference in ink drying status.  If it is not acceptable for you, replace the ink cartridge with a new one before starting printing.  ("Replacing the Ink Cartridges" on page 43)  The removed ink cartridge can be installed again and used until you are prompted to replace it.
Information You need to replace Ink Cartridge(s).	Install an ink cartridge with a sufficient amount of ink remaining.  ("Replacing the Ink Cartridges" on page 43)
Maintenance Error Cannot recognize the ink cartridge. Select "Next" to clear the error.	Reinstall the ink cartridge.  If the error reoccurs, replace the ink cartridge with a new one.  ("Replacing the Ink Cartridges" on page 43)
Information You have not installed genuine Epson ink cartridges.	For the best performance of the printer, it is recommended to use genuine Epson ink cartridges.  Use of non-genuine Epson ink cartridges can adversely affect the printer and print quality and prevent the printer from realizing its maximum performance.  Epson cannot guarantee the quality and reliability of non-genuine Epson products.  Repairs for any damage or breakdown of this product due to the use of non-genuine Epson products will not be free of charge even if the warranty period is still valid.
Maintenance Error Cannot recognize the ink cartridge. Select "Next" to clear the error.	Because the installed ink cartridges are not the ones for this printer, an error such as a cartridge detection error may occur.
Maintenance Error A maintenance box is not installed.  Model number: SJMB4000	Install a new maintenance box. ("Replacing the Maintenance Box" on page 46)
Maintenance Error Cannot recognize the maintenance box. Model number: SJMB4000	Reinstall the maintenance box.  If the error reoccurs, replace the maintenance box with a new one.  ("Replacing the Maintenance Box" on page 46)
(On the home screen) The Maintenance Box is nearing end of its service life.	Prepare a new maintenance box to be replaced with the near-full maintenance box.  When a message saying "The Maintenance Box is at the end of its service life. You need to replace it." is displayed, replace the maintenance box.  ("Replacing the Maintenance Box" on page 46)

Message	Solution
Maintenance Error The Maintenance Box is at the end of its service life. You need to replace it.  Model number: SJMB4000	Replace the maintenance box with a new one.  ("Replacing the Maintenance Box" on page 46)
Information  Memory Full. Document was not printed.	Contact your system administrator and delete unnecessary files.
Printer Error Turn on the printer again. See your documentation for more details.  XXXXXXX	<ol> <li>Turn off the printer.</li> <li>Check that there is no paper jam or foreign materials near the ejection slot.</li> <li>Turn the printer on.</li> <li>If the printer error still occurs, contact qualified service personnel for advice.</li> <li>When contacting, tell the person the "XXXXXXXXX" (a 6- or 8-digit alphanumeric code).</li> </ol>
Information Cannot start cleaning because ink is low. Printer features except cleaning are available.	When running the cleaning, install ink cartridges with a sufficient amount of ink remaining.  ("Replacing the Ink Cartridges" on page 43)
Information Paused The print quality may decrease because the nozzles are clogged.	The print quality may decrease because the nozzles are clogged. If it is not acceptable, run a print head cleaning.  ("Cleaning the Print Head" on page 256)

Message	Solution
Error The connection between your network and the printer is unstable. You may be able to solve this problem by disabling the IEEE802.3az (Energy Efficient Ethernet) function. See your documentation for more details.	When connecting to a wired LAN using a device that supports IEEE802.3az (Energy Efficient Ethernet), the connection may become unstable, the connection may not be possible, or the communication speed may slow down.  Follow the steps below to disable the IEEE802.3az function on your computer and printer.  1. Disconnect the LAN cables from the computer and printer respectively.  2. If the IEEE802.3az function has been enabled on your computer, disable it.  3. Connect the computer and printer directly with a LAN cable.  4. On the printer, select [Menu] - [General Settings] - [Network Settings] - [Connection Check] to check the IP address of the printer.  5. Start WebConfig on the computer.  Start your web browser and enter the IP address of the printer.  6. Select the [Network Settings] tab, then [Ethernet].  7. Set [IEEE 802.3az] to [Off].  8. Click [Next].  9. Click [Apply].  10. Disconnect the LAN cable from the computer and printer.  11. If you disabled IEEE802.3az on your computer in step 2, enable it.  12. Connect the LAN cables you disconnected in step 1 to the computer and printer.
	If the problem still occurs, a device other than the printer may be causing the problem.

# **Print Quality Problems**

Status	Cause	Solution
Horizontal White Banding	The nozzles are clogging.	Print the nozzle check patterns to check the nozzles for clogging.  ("Test Print" on page 69)  If the nozzles are clogging, run a print head cleaning.  ("Cleaning the Print Head" on page 256)
White or Black Banding	The paper is not loaded correctly.	Reload the paper. ("Loading Paper" on page 53)
	The paper being used and the Media Coating Type setting differ.	Check the paper being used and the Media Coating Type setting of the printer driver. ("Printer Driver for Windows" on page 71)
	White banding or black banding can occur if the paper feeding setting is not appropriate for the paper used.	Adjust the paper feed settings. The adjustment is available in [Print Head Alignment] of PrinterSetting. ("Print Head Alignment" on page 186)

Status	Cause	Solution
Unintended Top and Bottom Margins are Generated	If die-cut label (without black marks) thinner than required thickness is used, the printer may not be able to correctly detect the labels and cause unintended top and bottom margins on each label. (The "top and bottom" used here means the beginning and end of labels in the paper feed direction.)	Carry out [Print start position adjustment (Vertical direction)] of PrinterSetting. Enter a minus correction value to reduce the top margin, and enter a plus correction value to reduce the bottom margin. ("Position adjustment" on page 173)
Printed Characters Look Blurred	The outside shutters on the platen, which are not needed to be opened for the paper, are open.	Air flow from the outside shutters adversely affect the printing operation and may cause blurred print.  Set the shutters on the platen according to the instructions on the label attached to the printer.  ("Adjusting the Shutters" on page 65)
	Blurred print may occur when the printer settings are not appropriate for the thickness of the paper.	Carry out [Bi-directional Printing Adjustment] of PrinterSetting.  ("Print Head Alignment" on page 186)
Printed Colors Are Wrong	If the printer is moved after initial charging, the specified colors may not be output (colors may be mixed) due to vibrations and impacts.	Run a head cleaning and check that colors are no longer mixed. ("Cleaning the Print Head" on page 256)
Print position shifts	The edge guide is not set along the paper edge.	Check that the edge guide is properly set at the paper width position. ("Loading Paper" on page 53)
	The paper is not loaded centrally.	If the paper is offset from the center when loaded, print position may be laterally shifted at the beginning of printing.  Use the paper guides to load the paper centrally or feed the paper before starting printing.
	The rear edge of the paper is approaching	When the trailing edge of the paper approaches, print position may be laterally shifted, or blurred print may occur.  Replace the paper with a new one.

Status	Cause	Solution
Paper is Smeared or Smudged with Ink	The paper being used and the Media Coating Type setting differ.	Check the paper being used and the Media Coating Type setting of the printer driver. ("Printer Driver for Windows" on page 71)
	If foreign matter is adhered to the head, the paper may be smeared with ink.	Run a print head cleaning. ("Cleaning the Print Head" on page 256)
	If the platen vacuum is insufficient for the paper, the paper may rub against the print head and be smeared with ink.	Depending on paper used, manual adjustment of the platen vacuum is required. Carry out the manual adjustment using the printer driver following the steps below.  1. Display the [General] window of the printer driver.  2. Click [Advanced] in the [Media Settings] field.  The advanced settings window appears.  3. Select the check box for [Media Hold Pressure Manual Adjustment] in the [Paper Adjustment] field.  The manual adjustment is enabled.  4. Move the slide bar to adjust the platen vacuum.
	The paper width and the shutters on the platen do not match.	If the paper width and shutters on the platen do not match, rising up of the paper may cause the paper and print head to rub against each other, leading to the paper becoming dirty. Set the shutters on the platen according to the instructions on the label attached to the printer.  ("Adjusting the Shutters" on page 65)
Part of print data is rimmed/Auto cut or Peeling position is Incorrect	The paper being used and the media definition (size settings) do not match.	If the paper and the media definition of the printer driver do not match, printing may not be at the correct position.  Set the media definition correctly. ("User-Defined Paper" on page 79)
	Shift of print and stop position may occur depending on the paper used.	Adjust the print start position using PrinterSetting. ("Position adjustment" on page 173)

### **Cannot Print**

Status	Cause	Solution
Auto Paper Feeding does Not Start	The sensor has failed.	If operation was normal up until now, the sensor has probably failed. Request repairs.
Paper is Fed and Ejected, and an Error Occurs	The paper being used differs from that of Media detection settings.	Check the paper being used and Media detection settings of the printer. ("Paper Source and Paper Detection Settings" on page 77)
Media Form: Continuous label (without black marks)		
Paper is Fed and Ejected, and an Error Occurs	The paper being used differs from that of Media detection settings.	Check the paper being used and Media detection settings of the printer. ("Paper Source and Paper Detection Settings" on page 77)
Media Form: Die-cut label (Gap)	The transmittance of the paper does not comply with the specifications.	If the transmittance of the paper differs, gaps may not be recognizable. Infrared light is used for gap detection, and the infrared transmittance of the backing paper needs to be the specified value or higher and the infrared transmittance of the label part needs to be the specified value or lower.  Check the specifications of the paper, and use paper that complies with the printer specifications. ("Paper Specifications" on page 310)  The gaps may become recognizable by adjusting the label gap detector.  On the operation panel, select [Menu] - [Maintenance] - [Calibration] - [Simple Media Detect] in that order. If the problem is not resolved, carry out [Media Detect].
	The sensor has failed.	If operation was normal up until now, the sensor has probably failed. Request repairs.
Paper is Fed and Ejected, and an Error Occurs	The paper being used differs from that of Media detection settings.	Check the paper being used and Media detection settings of the printer. ("Paper Source and Paper Detection Settings" on page 77)
Media Form: Continuous Label (Black Mark), Die-cut Label (Black Mark)	The black marks do not comply with the specifications.	If the reflectivity of the black marks is higher than the specified value, the black marks may not be recognizable. Infrared light is used for black mark detection, and the infrared reflectivity needs to be the specified value or lower.  Check the specifications of black mark printing, and use black marks that comply with the printer specifications.  The black marks may become recognizable by adjusting the black mark detector.  On the operation panel, select [Menu] - [Maintenance] - [Calibration] - [Simple Media Detect] in that order. If the problem is not resolved, carry out [Media Detect].
	The sensor has failed.	If operation was normal up until now, the sensor has probably failed. Request repairs.

### **Network Connection Check Errors**

Check the error number printed on the connection check report and take measures correspond to the error number.

For instructions on how to print the report, see "Checking Network Connection and Settings" on page 34.

### **Error Code**

Error number	Solution
E-1	<ul> <li>Check that the LAN cable is securely connected to the printer and the other network devices such as a hub.</li> <li>Check that the network device such as a hub is powered on.</li> </ul>
E-2 E-3 E-7	<ul> <li>Make sure that the access point is turned on.</li> <li>Make sure that your computer or other devices are communicating properly with the access point.</li> <li>Keep the printer and access point close together. Remove any obstacles in between.</li> <li>If you entered the SSID directly, make sure that the SSID you entered is correct. You can check the SSID in the network settings column on the connection check report.</li> <li>When setting up with push-button auto-configuration, make sure the access point supports AOSS/WPS. If the access point does not support AOSS/WPS, push button automatic setting cannot be used.</li> </ul>
	<ul> <li>Make sure that the SSID does not use any character string other than ASCII characters (alphanumeric characters and symbols). The printer cannot display SSIDs that contain non-ASCII character strings.</li> <li>When connecting to an access point, confirm the SSID and password beforehand. If you are using an access point with the manufacturer's settings, the SSID and password will be written on the label of the access point. If you don't know the SSID and password, check with the person who set up the access point, or refer to the manual for the access point.</li> <li>If you want to connect to the SSID generated by the tethering function of your smart device or other devices, check the manual of your smart device for the SSID and password.</li> <li>If you are suddenly unable to connect to your wireless LAN (Wi-Fi), check the following. If any of the following apply to you, please use the installer to reconfigure your network settings. The installer can be obtained from the following website.</li> <li>www.epson-biz.com/</li> <li>Have you newly set up your network environment with push-button auto-configuration (AOSS/WPS) from another smart device?</li> <li>Has this wireless LAN (Wi-Fi) network been configured using a method other than push-button auto-configuration?</li> <li>Are you using an access point manufactured by Buffalo Corporation that can be set up using push buttons (AOSS)?</li> </ul>
E-5	Check if the access point has one of the following security methods. If not, change the access point settings to use one of the following security methods, and reconfigure the network settings of the printer.  • WEP-64 bit (40 bit)  • WEP-128 bit (104 bit)  • WPA PSK (TKIP/AES)*  • WPA2 PSK (TKIP/AES)*  • WPA2 PSK (TKIP/AES)  • WPA2 (TKIP/AES)  • WPA3 SAE (AES)*  * WPA PSK is also referred to as WPA Personal, WPA2 PSK as WPA2 Personal, and WPA3 SAE as WPA3 Personal.

Error number	Solution
E-6	<ul> <li>Make sure that MAC address filtering is disabled. If enabled, please register the MAC address of the printer to prevent it from being filtered. For details, please refer to the manual of the access point. You can check the MAC address of the printer in the network settings column on the connection check report.</li> <li>If Shared authentication is enabled in the access point's WEP security method, make sure that the authentication key and index are correct.</li> </ul>
E-8	<ul> <li>When the TCP/IP setting of the printer is set to automatic, enable DHCP on the access point.</li> <li>When the TCP/IP setting of the printer is set to manual, the manually set IP address is invalid because it is outside the valid range (such as 0.0.0.0). Set a valid IP address using the operation panel of the printer or using WebConfig.</li> </ul>
E-9	Check the followings.  Is the device that uses the printer turned on?  From the device that uses the printer, is it possible to access the Internet and connect to other computer or network devices on the same network?
	If there are no problems, please use the installer to reconfigure your network settings. The installer can be obtained from the following website.  www.epson-biz.com/
E-10	<ul> <li>Check the followings.</li> <li>Are the other devices on the network turned on?</li> <li>If you have set the printer's TCP/IP settings manually, is the network address (IP address, subnet mask, and default gateway) correct?</li> </ul>
	If the network address is incorrect, correct it. You can check the IP address, subnet mask, and default gateway in the network settings column on the connection check report.  If you have enabled DHCP, set the IP address to Auto in the printer's TCP/IP settings. If you want to set the IP address manually, check the printer's IP address in the network settings column on the connection check report, then set the address in the printer's network settings screen. Set the subnet mask to "255.255.255.0".
E-11	Check the followings.  If you have set the printer's TCP/IP settings manually, is the default gateway address correct?  Is the device specified as the default gateway turned on?
	Set the correct default gateway address. You can check the default gateway address in the network settings column on the connection check report.
E-12	<ul> <li>Check the followings.</li> <li>Are the other devices on the network turned on?</li> <li>Is the network address (IP address, subnet mask, default gateway) of the printer that you set manually correct?</li> <li>Are the network addresses (subnet mask and default gateway) of other devices the same?</li> <li>Is the IP address of the printer duplicated with other devices?</li> </ul>
	<ul> <li>If there are no problems, try the following.</li> <li>On a computer on the same network as the printer, use the installer to reconfigure the network settings. The installer can be obtained from the following website.         <ul> <li>www.epson-biz.com/</li> </ul> </li> <li>The security type "WEP" allows multiple security keys to be registered to the access point. When multiple keys are registered, make sure that the security key for the first (primary) index is set to the printer.</li> </ul>

Error number	Solution
E-13	<ul> <li>Check the followings.</li> <li>Are network devices (access points, hubs, routers, etc.) turned on?</li> <li>Are the TCP/IP settings of network devices other than the printer set manually? (If the TCP/IP settings of other network devices are set manually, but only the printer's TCP/IP settings are set automatically, only the printer may be on a different network.)</li> </ul>
	<ul> <li>If there are no problems, try the following.</li> <li>On a computer on the network to which the printer is connected, use the installer to reconfigure the network settings. The installer can be obtained from the following website.         www.epson-biz.com/     </li> <li>The security type "WEP" allows multiple security keys to be registered to the access point. When multiple keys are registered, make sure that the security key for the first (primary) index is set to the printer.</li> </ul>

# Messages about the network environment

Message	Solution
Multiple specified networks (SSIDs) were found. Please check.	There is a possibility that the same SSID is set for multiple access points. Please check the settings of the access point and change the SSID.
The wireless environment needs to be improved. Turn off the access point and then back on. If the problem persists, please refer to the manual of the access point.	Move the printer closer to the access point, turn off the access point and then back on. If the problem persists, please refer to the manual of the access point.
The maximum number of devices that can be connected wirelessly has been reached. If you want to add a device, please disconnect other devices.	Up to 8 wireless devices can be connected at the same time via Wi-Fi Direct (Simple AP) connection. To add another computer or smart device, disconnect the computer or smart device that is not using the printer before adding it.

#### **Unable to Connect to the Network**

#### There is some problem with the wireless LAN network device(s)

Turn off the power of all devices connected to the network. Wait about 10 seconds, then turn on the wireless router (access point), computer or smart device, and printer, in that order. Move the devices closer to the wireless router (access point) so that they can receive radio waves more easily, and reconfigure the settings.

#### The devices and the wireless router are too far apart to receive a signal

Move the computer or smart device and printer closer to the wireless router, and then turn the router back on.

# You have replaced the wireless LAN router, but the connection settings have not been changed

Reconfigure the settings to match the new router.

# The SSID connected to the computer or smart device is different from that of the printer

If you are using multiple wireless LAN routers or one wireless LAN router that can use multiple SSIDs, you will not be able to connect if the SSID that your computer or smart device is connected to is different from the SSID that the printer is connected to. Connect your computer or smart device to the same SSID.

### The privacy separator function of the wireless LAN router is enabled

Many wireless LAN routers (access points) and mobile routers have a privacy separator function that blocks communication between devices. If you cannot communicate between the printer and your computer or smart device even though they are connected to the same SSID, disable the privacy separator function on your wireless router (access point). For details, refer to the manual of your wireless router (access point).

### The IP address has not been assigned correctly

If the IP address is "169.254.XXX.XXX" and the subnet mask is "255.255.0.0", the IP address may not have been assigned correctly. On the printer's operation panel, select [Settings] - [Network Settings] - [Advanced], and check the IP address and subnet mask assigned to the printer.

Restart the wireless router or reconfigure the network settings of the printer.

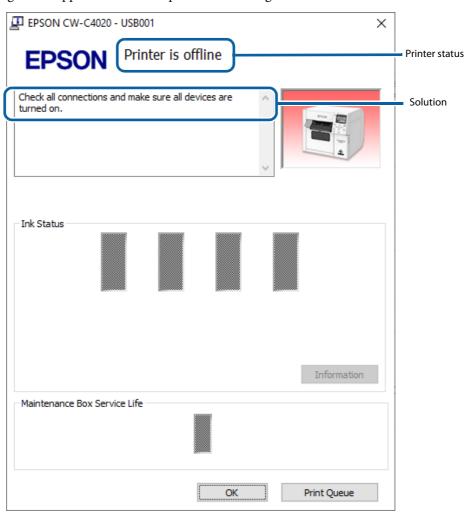
### There is a problem with your computer's network settings

Make sure you can browse the website from your computer. If you cannot, there is a problem with your computer's network settings.

Check your computer's network connection. For more information, refer to your computer's manual.

### A message is displayed on the computer screen

If the following screen appears, resolve the problem following the instructions on the screen.



### Printing from a computer is impossible or becomes suddenly impossible

### **Checking Whether the Printer Driver Is Installed**

Check whether or not the required software and applications are installed on the computer.

To print with this printer, a printer driver is required. Check whether or not the printer driver is installed by following the steps below.

- Display Devices and Printers on the computer.
- 2 Check that the printer name is displayed. If not, the printer driver is not installed.
- Install the printer driver.

  ("Downloading Printer Driver, Utilities, and Manuals" on page 333)

#### **Reconnecting the Printer and Computer**

**1** Check the cable connections.

Check that the power cable and the USB cable or wired LAN cable are connected properly.

Reconnect all of the devices.

For USB connection

- Disconnect the USB cable and then reconnect it.
- If the computer has multiple USB ports, connect the cable to a different port.

For wired LAN connection

- Device connected by wired LAN may have become unstable. Restart the network function.
- Turn off the all devices.
- Wait about 10 seconds, then turn on the network device, computer, and printer in that order.

For wireless LAN connection

- Disconnect the optional wireless LAN unit and reconnect it.
- Turn off the all devices.
- Wait about 10 seconds, then turn on the network device, computer, and printer in that order.
- **?** Check that data is sent from the computer to the printer.

For the check procedure, see "Checking the Print Data" on page 277.

### **Checking the [Devices and Printers]**

If the printer icon is not displayed in the [Devices and Printers] window, the printer device may have been deleted. Add the printer again following the procedure below.

- **1** Turn off the printer.
- Disconnect the USB cable from the computer.
- **Wait for about 10 seconds, and then reconnect the USB cable to the computer.**
- 4 Turn the printer on.

The printer icon is now displayed in the [Devices and Printers] window.

### **Checking the Print Data**

If print data is not sent from a computer to the printer, it may be caused by print jobs remaining on the computer, or print jobs that has been paused or offline setting.

Check it following the procedure below.

- Display Devices and Printers on the computer.
- 2 Set the printer as the default printer.
  Right-click the icon of the printer to be used and then click?

Right-click the icon of the printer to be used and then click Set as default printer.

If the printer is installed multiple times, copies of the printer driver may be created.

If there is more than one printer icon and you find a copied one such as "CW-C40XX (Copy 1)", right-click on the copied icon and then delete it by clicking Remove device.

- Perform a test print to check whether or not the print data is sent to the printer.

  Right-click the icon of the printer being used and then click Printer properties.
- The printer properties screen of the printer driver appears. Click Print Test Page on the General tab.

If the test print is successful, you have confirmed that data is sent from the computer to the printer.

- Display the print job. Right-click the icon of the printer being used and then click See what's printing.
- A screen appears. Check the print job.

  If print data is displayed, select [Printer] [Cancel All Documents].

  If the print data cannot be deleted, restart the computer.
- **7** Check "Pause Printing" or "Use Printer Offline" is not set for the printer.

  Select Printer and make sure that "Pause Printing" or "Use Printer Offline" is not checked. If any of them is checked, clear the check mark.

### The printer does not turn on

Check that the power cable is connected to the printer and outlet properly. ("Connecting the Power Cable" on page 39)

### Print Job is Canceled on PC but "Printing" Message on Printer Does Not Disappear

If you cancel printing in printer queue on the computer, it may cause the print data to break up and "Printing" may be kept displayed on the operation panel of the printer.

To cancel the status, press the Cancel button on the operation panel, and then select [All label formats].

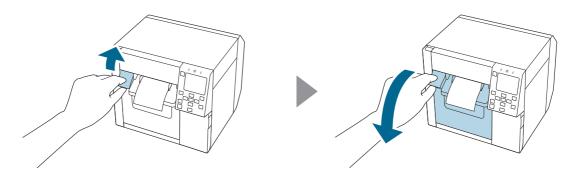
### **Error Beep Sound Does Not Stop**

If the printer has been set to sound the error beep continuously, press the  $\widehat{\text{th}}$  (home) button or the button on the operation panel to stop the beep sound.

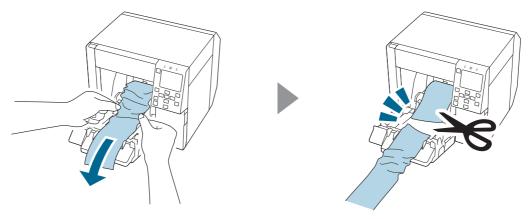
### **Paper Jam**

### **Roll Paper is Jammed**

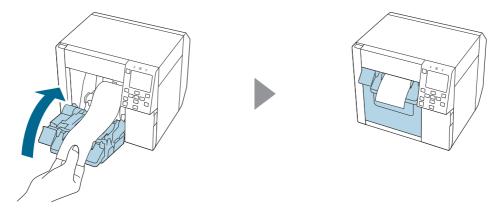
1 Open the front cover.



**7** Remove the jammed paper.

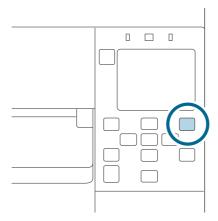


### Pull out the leading edge of the roll paper, and then close the front cover.



### ⚠ Press the (Pause) button.

Check that the printer is ready for printing by checking the home screen.





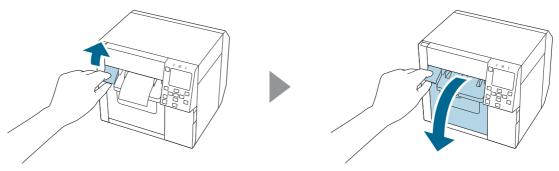
After removing jammed paper, make sure that there is no labels or adhesive left inside the printer. If you use the printer without removing them, it leads to frequent paper jams, or may cause poor print quality.

If paper jam occurs frequently, clean the inside of the printer.

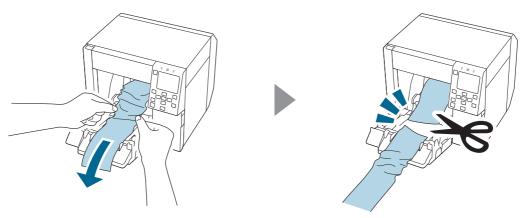
("Cleaning the Printer" on page 251)

### **Fanfold Paper is Jammed**

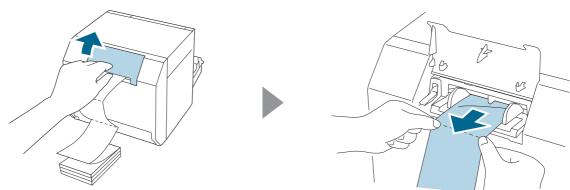
**1** Open the front cover.



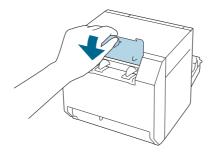
Cut out the jammed paper.



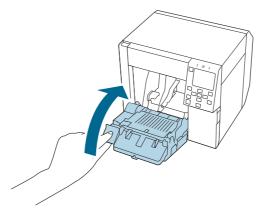
Open the rear cover and then remove the jammed paper.



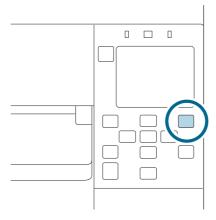
**⚠** Close the rear cover.



Close the front cover.



6 Press the (Pause) button.





After removing jammed paper, make sure that there is no labels or adhesive left inside the printer. If you use the printer without removing them, it leads to frequent paper jams, or may cause poor print quality.

If paper jam occurs frequently, clean the inside of the printer.

("Cleaning the Printer" on page 251)

# **Information for Application Development**

This chapter provides printer control methods and other information necessary for developing an application.

### How to Control the Printer

The printer control method differs depending on how to print from the printer.

Application specifications	Printer control method	Page
Print using the printer driver that is installed following the setup workflow described in chapter 2.	Use the printer driver.	Page 71
Print using the Epson Inkjet Label Printer SDK from Windows applications you developed.	Use the Epson Inkjet Label Printer SDK commands.	Page 283
Print using your application that directly controls ESC/Label commands.	Use the ESC/Label commands.	Page 284
Print using an existing application and printer driver that were used for a ZPL II compatible monochrome printer.  Change from preprint system to on-demand print system.	Change the printer settings to replace the printer.	Page 287
Print using a Linux driver that has been rebuilt from the Linux driver source code to match the Linux OS of the distribution you are using.	Use the rebuilt printer driver for Linux.	TBD
Print using the Linux driver source code from your application.	Use the source code of the Linux driver.	TBD
Print using the iOS SDK from iOS applications you developed.	Use the iOS SDK.	TBD
Print using the Android SDK from Android applications you developed.	Use the Android SDK.	TBD
Print using the Web Application SDK from Web applications you developed.	Use the Web Application SDK.	TBD

## Using the Epson Inkjet Label Printer SDK

The SDK provides you an environment required for your application to print through the Epson printer driver. The followings are included.

Item	Description
Epson Inkjet Label Printer SDK User's Guide	Describes overview of Epson Inkjet Label Printer SDK configuration, functions required for controlling the Epson inkjet label printer from an application, how to use the sample programs, and printer driver settings that need to be configured in advance.
EPDI (EPSON Printer Driver Interface)	EPDI (EPSON Printer Driver Interface) provides application programming interfaces of Epson printer driver. By using the EPDI, you can configure the Epson printer driver settings from your application.  For details about EPDI and information necessary to use it on your application programming, see "EPDI for Inkjet Label Printer Reference Guide" included in this SDK.
EpsonNet SDK	EpsonNet SDK provides API commands to get status of Epson inkjet label printer. For details about the API and information necessary to use it on your application programming, see "EpsonNet SDK for Windows Reference Guide" included in this SDK.
Label Print Sample Program	Provides executable files and source files of the program that perform printing from Epson inkjet label printer using Epson Inkjet Label Printer SDK. For instructions on how to use the sample programs, see "Epson Inkjet Label Printer SDK User's Guide".

### **Operating Environment**

OS	Refer to the Appendix.
Software	Printer driver (Download from the web site or install using Install Navi that is launched from the supplied CD*.)
	*Depending on country or region, the CD does not come with the printer.

### **How to Get Software**

Contact qualified service personnel.

### Using the iOS SDK/Android SDK/Web Application SDK

The SDKs are development kits for controlling an ESC/Label command-enabled printer from a web application or a native application on a smart device. They include library, manual, sample programs, etc.

#### How to Get

You can download them from the following URL.

www.epson-biz.com/

## Using the ESC/Label Commands

The ESC/Label commands allow you to print directly from your application without using the printer driver. For more details about ESC/Label commands, contact qualified service personnel.

# Replacing from ZPL II Compatible Monochrome Printer

If you want to print from the printer using an existing application and printer driver that were used for a ZPL II compatible monochrome printer, you need to change the printer settings so that they match with the settings of the ZPL II compatible monochrome printer.

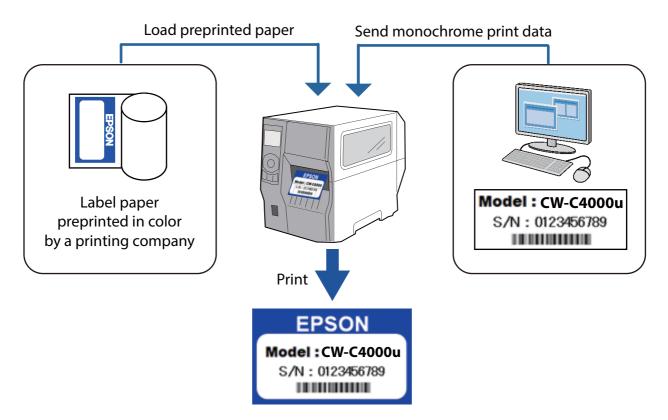
### **Changing from Two-Step Printing to One-Step Printing**

CW-C4000 Series allow you to register an image file in png format to the printer, and print data sent from a host computer overlaying the registered image on the print data.

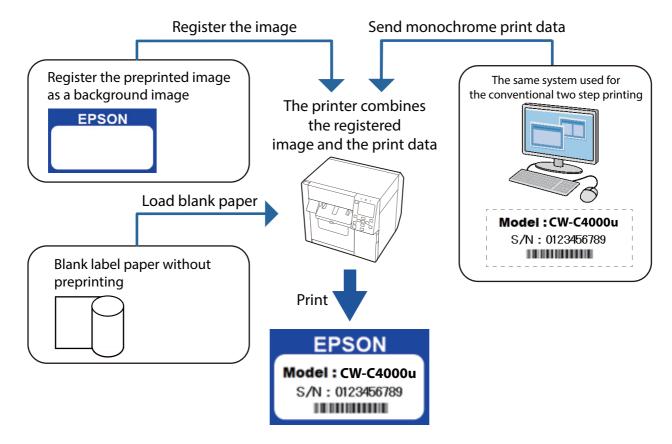
For example, if you had created color labels in two steps as described below, you can change it to one step without changing the system and data on the host computer.

- Step 1. Purchasing label paper preprinted in color from a printing company.
- Step 2. Printing monochrome data on the preprinted paper using ZPL II compatible monochrome printer.

#### **Conventional Printing Method (Preprinting + Monochrome)**

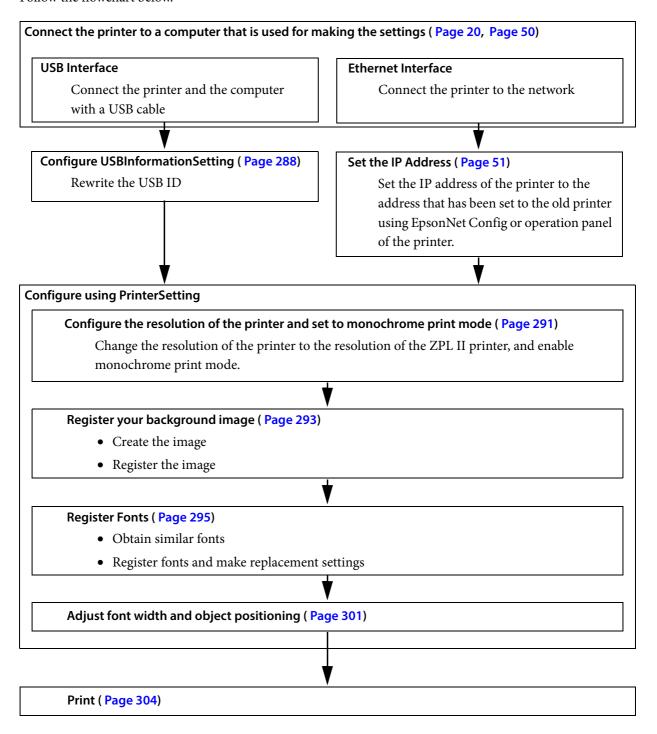


#### One Step Printing Method with CW-C4000 Series



### **Changing Printer Settings and Replacing Printer**

Follow the flowchart below.



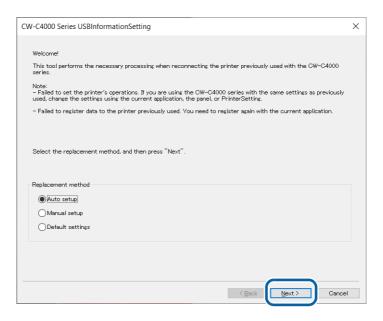


- The background image is printed in color regardless of the monochrome print mode setting.
- When adjusting, make the adjustment checking actual printouts.

### **Configuring USBInformationSetting**

When connecting the printer to the computer with a USB cable, change the printer's USB ID to that of the old printer using USBInformationSetting. Follow the procedure below.

- Click [Start] [EPSON] [CW-C4000 USB Information Setting].
- 2 USBInformationSetting is started. Select a replacement method, and then click [Next].

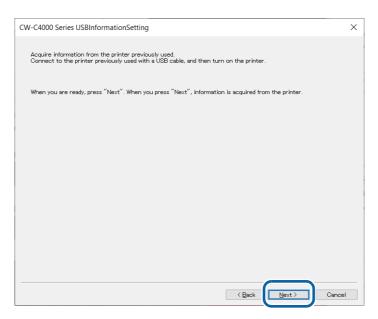


Item	Description
Replacement method	Select [Auto setup].

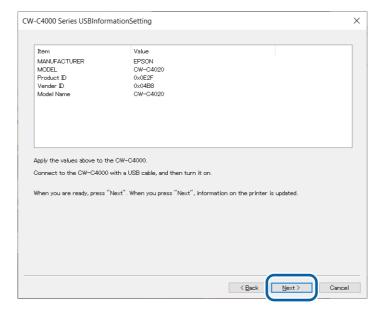


The [Auto setup] option automatically gets USB ID of the old printer, and sets the USB ID to the new printer.

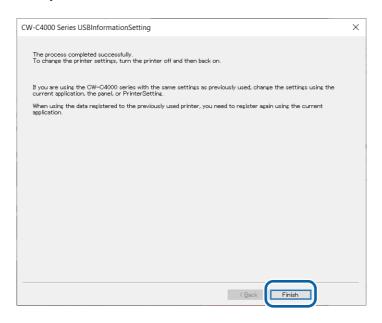
Connect the old printer to the computer with a USB cable, and then turn on the printer. Click [Next].



- Information of the old printer is acquired. Then, disconnect the old printer from the computer.
- Connect the new printer to the computer with a USB cable, and then turn on the printer. Click [Next].



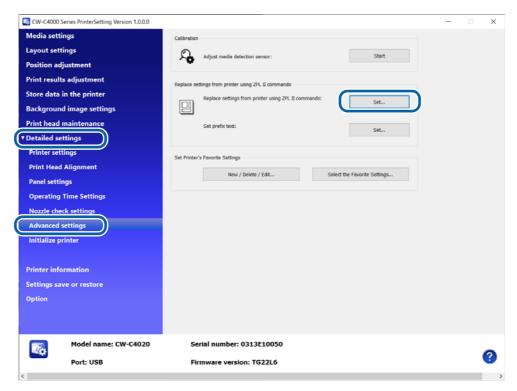
The window shown below is displayed when the settings were completed successfully. Click [Finish].



**7** Turn the printer off and then back on.

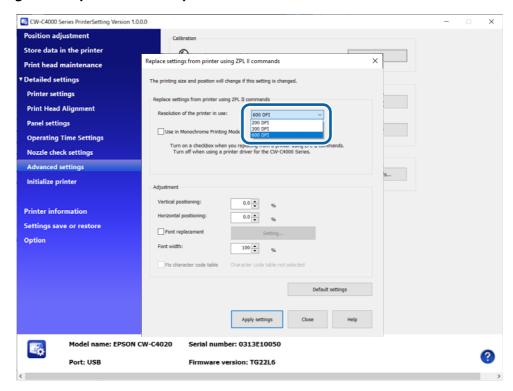
### **Setting the Printer Resolution and Monochrome Print Mode**

- Start PrinterSetting.
- Select [Advanced settings] from the [Detailed settings] menus, then click [Set...] beside the [Replace settings from printer using ZPL II commands:] option.

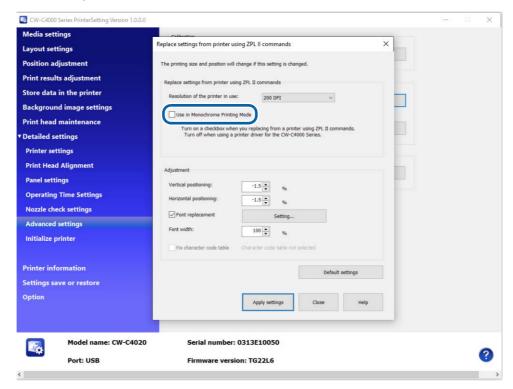


The "Replace settings from printer using ZPL II commands" window appears.

Select the resolution in the [Resolution of the printer in use:] pull-down menus. If the same resolution is not found in the menus, select one of the closest resolution. For example, if the resolution of the ZPL II compatible monochrome printer you were using is 203 dpi, select 200 dpi.



Select the checkbox for [Use in Monochrome Printing Mode] to print only in black and white and not print in color after replacing from the ZPL II compatible monochrome printer.

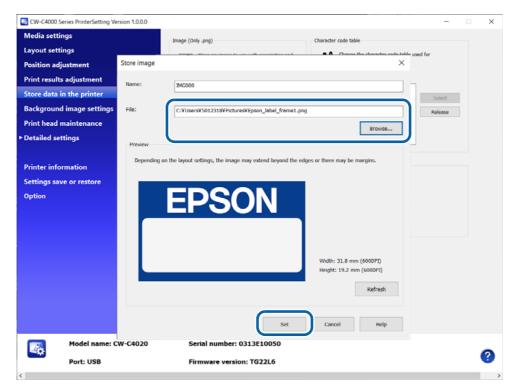


### Registering a Background Image

- 1 Create an images to be used as a background image.
  Use an image-editing software, save the background image in png format.
  Make sure to set the image resolution to 600 dpi.
- Start PrinterSetting.
- On the [Store data in the printer] window, click [Store...] in the [Image (Only .png)] field.

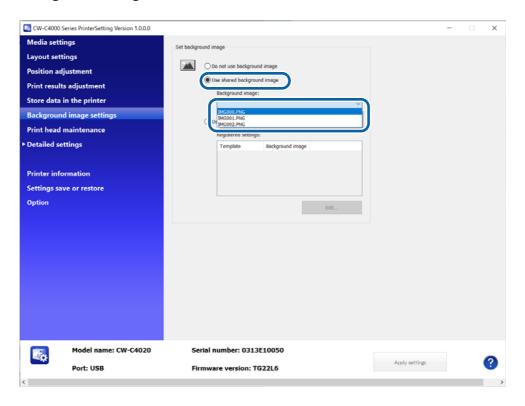
The "Store image" window appears.

Specify the png image file to be stored, and then click [Set].



The image file is sent to the printer and stored as a background image.

On the [Background image settings] window, select the stored image to use in the [Set background image] field.



### **Registering Fonts**

### **Font Registration Function**

CW-C4000 Series and ZPL II compatible monochrome printers have built-in fonts. CW-C4000 Series have Epson original built-in fonts and they are different from the fonts on the ZPL II compatible monochrome printers.

Since the font style (shape and thickness) and space around the font (causes changes in character spacing) of printed characters depend on the type of the built-in font, there may be differences in print results between CW-C4000 Series and ZPL II compatible monochrome printers.

### **Example:**

Print results of ZPL II compatible monochrome printer

### Print results of CW-C4000 Series





To get print results close to the results of ZPL II compatible monochrome printer, CW-C4000 Series provide the functions to register fonts and replace fonts of the ZPL II printer with similar fonts.

### **Getting Similar Fonts**

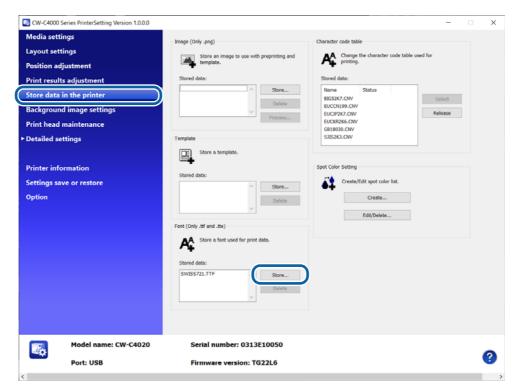
Prepare fonts (file format is TTF) similar to the built-in fonts on the ZPL II compatible monochrome printer. There are the following fonts that are similar to the fonts on ZPL II compatible monochrome printers. Since there are lot of fonts that differ in character thickness and spacing, carefully choose optimum fonts. Please get fonts and their licenses on your own responsibility.

Similar Fonts (Typical Example)

Font Name	Type Examples
Swiss 721	Black, Black Condensed
Helvetica	Bold, Bold Condensed

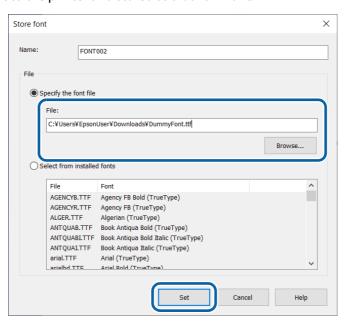
### **Registering/Replacing Fonts**

- Start PrinterSetting.
- On the [Store data in the printer] window, click [Store...] in the [Font (Only .ttf and .tte)] field.

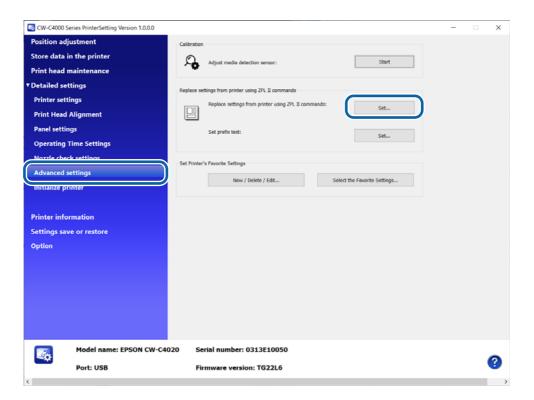


The "Store font" window appears.

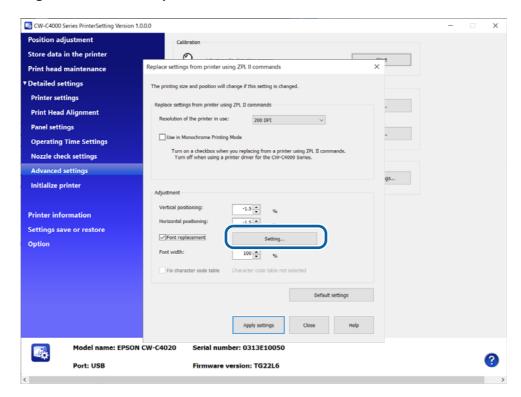
3 Specify the font file (TTF format) to be stored, and then click [Set]. The font file is sent to the printer and stored as a built-in font.



Select [Advanced settings] from the [Detailed settings] menus, then click [Set...] beside the [Replace settings from printer using ZPL II commands:] option.

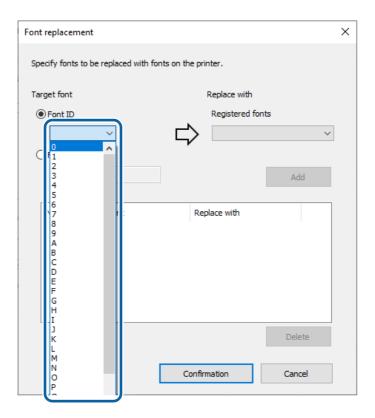


On the [Replace settings from printer using ZPL II commands] window, click [Settings] beside [Font replacement].

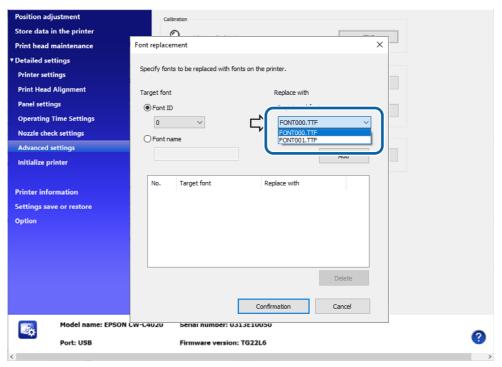


Select the font on the ZPL II compatible monochrome printer to be replaced by specifying the ID of the font.

Select the ID from the list box.

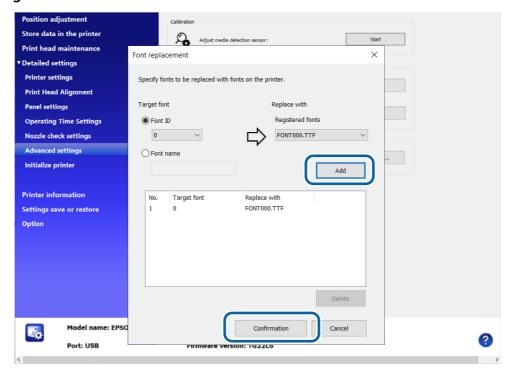


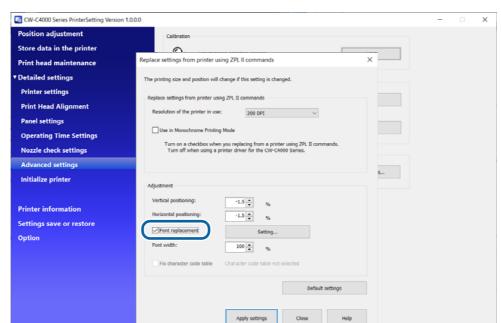
**7** Select a font to be associated to the font ID.



Click [Add] to add the pair to the list in the window.

Click [Confirmation] to save the list and go back to the "Replace settings from printer using ZPL II commands" window.





Firmware version: TG22L6

Select the check box for [Font replacement] to apply the font replacement settings.

### 1 O Click [Apply settings].

**4** 

The settings are sent and set to the printer.

Port: USB

### **Adjusting Font Width and Object Positioning**

The following adjustments are provided in the [Replace settings from printer using ZPL II commands] window.

### Font width

This allows you to reduce width of font. "100%" is the original size. You can specify how much to reduce the width in increments of 1%. If you reduce the width too much, printed characters may become illegible. When you change the setting, check actual printouts. It is expected that the allowable range is 80 to 100%.

### **Vertical Positioning**

This allows you to adjust vertical print position of objects, such as a text, barcode, graphic, and image, on a single page. The setting can be changed in the range of -5.0 to +5.0% in increments of 0.1%.

### **Horizontal Positioning**

This allows you to adjust horizontal print position of objects, such as a text, barcode, graphic, and image, on a single page. The setting can be changed in the range of -5.0 to +5.0% in increments of 0.1%.

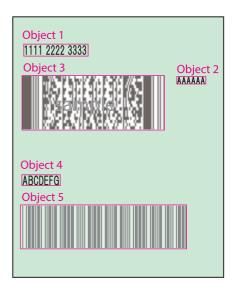
If CW-C4000 Series prints labels in 200 dpi, which had been printed in 203 dpi by the ZPL II compatible monochrome printer, the objects are printed being enlarged by 1.5% (203 divided by 200). Use the Vertical/Horizontal positioning functions to compensate position gaps caused by the difference in print resolution. Note that the positioning functions adjust only position of objects and do not change dimensions of the objects. This is to prevent the objects from being deformed. Especially for a thin line and barcode objects because scaling them down can result in disappearance of the line and drop in readability of the barcode.

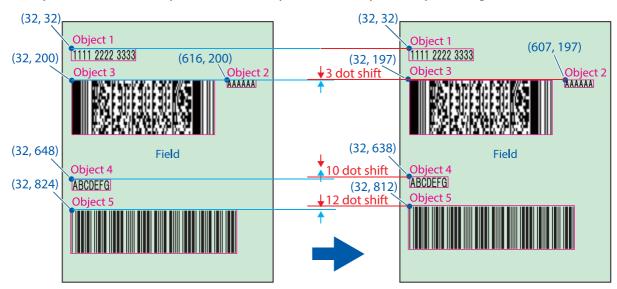
In most cases, objects can be properly positioned with this functions, however, if there is a too large object comparing to the page size, or if gaps between multiple objects are too narrow, objects may be printed overlapping with each other resulting in printing labels different from the original label design.

### Objects on a page





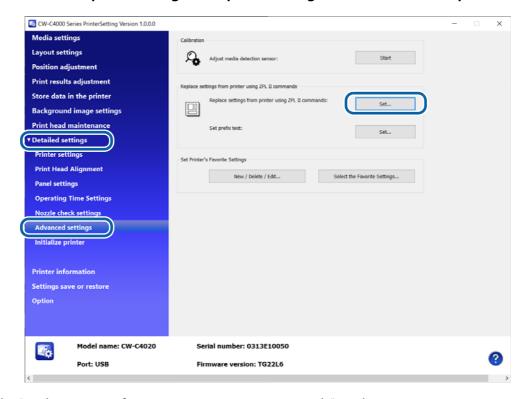




### Example when scaled down by 1.5% both vertically and horizontally with the positioning functions

Object 2: 616 x 0.985 = 606.8 200 x 0.985 = 197.0 Object 4: 32 x 0.985 = 31.5 648 x 0.985 = 638.3

- Start PrinterSetting.
- 2 Select [Advanced settings] from the [Detailed settings] menus, then click [Set...] beside the [Replace settings from printer using ZPL II commands:] option.

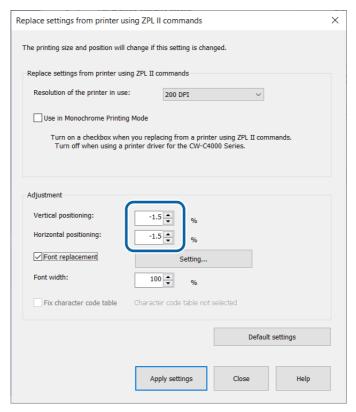


The "Replace settings from printer using ZPL II commands" window appears.

**3** Select a value in each of the Vertical positioning and Horizontal positioning boxes.

If you have set the same resolution as the resolution of the ZPL II compatible monochrome printer, set "0" (zero) to both the [Vertical positioning] and [Horizontal positioning].

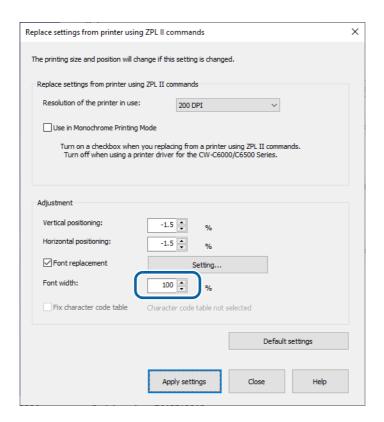
If the resolution of the ZPL II compatible monochrome printer you were using is 203 dpi, and you have set the resolution to 200 dpi, set "-1.5%" to both the [Vertical positioning] and [Horizontal positioning].



If you do not adjust the font width, proceed to step 5.

### Adjust the font width.

First set this to "100%", and then change it after checking actual print results.



### Click [Apply settings].

The settings are sent and set to the printer.

### **Printing**

Let the printer print under conditions where the printer is actually used, then check the print results.

### **Utilizing Templates**

If you have used templates with a monochrome thermal printer, you can register the template to CW-C4000 Series and use the templates from your application that directly controls ZPL II commands.

For details, see "Changing Printer Settings and Replacing Printer" on page 287.

Since the ESC/Label commands and ZPL II commands are different in supported range and template file extension, you need to change some commands in accordance with the ESC/Label command specifications. For more details about the ESC/Label command specifications, refer to the "ESC/Label Command Reference Guide".

The procedure is as follows.

### Register the image. ( Page 177)

Register the image to the printer.

### Register the template. (Page 178)

Register the template to the printer.

If you use template files created by using the ZPL II commands, change the file extension so that the file is supported by the ESC/Label commands. In addition to that, delete commands that are not supported by the ESC/Label commands.

### Link the template and the image. (Page 182)

Configure the settings to link the template and the image.

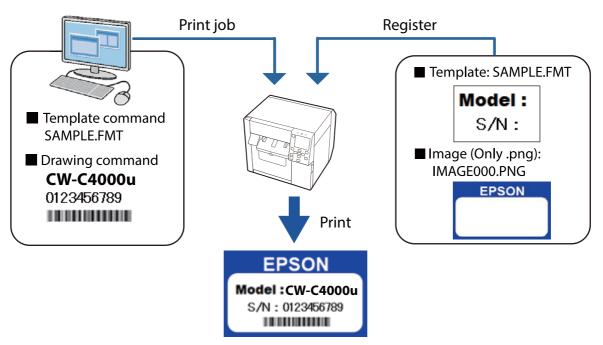
### ✓ Set the resolution. (Page 196)

Select [Advanced settings] from the [Detailed settings] menus, then select [Replace settings from printer using ZPL II commands:] and set the resolution that is the same as the resolution of the monochrome thermal printer you were using.

### **5** Print the template.

To print labels using template files, change the file extension of the template file specified by the ZPL II commands in the application so that the file is supported by the ESC/Label commands.

The template specified by the ZPL II command in the application, variable information, and the image are combined and printed.



# Software and Manuals

The following pieces of software and manuals are provided.

### **Software**

Name	Description	Providing Method	
Install Navi	Allows you to install the printer driver and other software, and also connect the product with the computer.	CD-ROM*	
Printer driver for Windows	Driver to print from Windows applications. The utility (CW-C6XXX PrinterSetting) for configuring the printer settings can be started from the driver. For details on how to use the driver, refer to Help or the video.	Web     CD-ROM*	
Printer driver for Mac	Driver to print from Mac applications. For details on how to use the driver, refer to the driver's Help.	Web	
Printer driver for Linux	Driver to print from a Linux application.		
EpsonNet Config SE	Tool to acquire or set network settings, such as TCP/IP of the product.	• Web • CD-ROM*	
Color Tone Matching Assistant	Assists you to adjust colors of illustrations or letters. You can check how a specific color used in illustrations or letters will look on printouts.		
SAP HVP Plugin	If you use the SAP EH&S WWI HVP system to perform a large amount of printing over the network, the HVP plug-in for EPSON CW-C40x0 can reduce the load on the server and the traffic in the network.	Web	
Epson Device Admin	Epson Device Admin is a multifunctional software for managing printers on a network.  ("Epson Device Admin" on page 222)	Web	
USBInformationSetting	Allows you to change the USB ID of this product. Use this to match the USB ID with that of the printer you had been using until replacing with this product.	Web	
USB Printer Class Device Replacement Service	When a USB device of the same model is replaced, this tool automatically changes the output destination to a different printer driver without changing the application or OS settings.	Web	

<sup>\*</sup>Depending on country or region, the CD does not come with the printer.

# Manual

Name	Description	Providing Method
Start Here	Guides you through basic setup steps from unpacking to loading paper.	<ul><li>Included in the printer package</li><li>Web</li></ul>
User's Guide	Describes details about the functions and operating procedures of the product, maintenance information, and troubleshooting. Download this guide from the web site or, depending on the country or region, this is included in the supplied CD*.  ("Downloading the Latest Version" on page 3)	Web     CD-ROM*
CW-C4000 Series Technical Reference Guide (This manual)	Provides information necessary for installing the product, performing daily tasks, and developing a system using the product.	Web
Maintenance box manual	Precautions on handling the maintenance box are described.	<ul> <li>Included in the maintenance box package</li> <li>Web</li> </ul>

<sup>\*</sup>Depending on country or region, the CD does not come with the printer.

# Appendix

# **Product Specifications**

Item		Specifications		
Printing method		Serial inkjet, dot matrix method Four-color printing		
Paper feed m	ethod			Forward and reverse friction feed
Cutting type	of the auto cutter			Full cut (cuts paper completely)
Print resolution	on			300 × 600 dpi, 600 × 600 dpi 600 × 1200 dpi, 1200 × 1200 dpi
Print speed	Print quality setting: Max Speed 300 × 600 dpi	vidth	25.4 mm	124 mm/s
	(width × height)	Print width	101.6 mm	100 mm/s
	Print quality setting: Speed 600 × 600 dpi	vidth	25.4 mm	111 mm/s
	(width × height)	Print width	101.6 mm	70 mm/s
	Print quality setting: Normal 600 × 600 dpi	vidth	25.4 mm	63 mm/s
	(width × height)	Print width	101.6 mm	48 mm/s
	Print quality setting: Quality 600 × 1200 dpi	Print width	25.4 mm	27 mm/s
	(width × height)	Print \	101.6 mm	18 mm/s
	Print quality setting: Max Quality 1200 × 1200 dpi	Print width	25.4 mm	11 mm/s
	(width × height)	Print \	101.6 mm	8 mm/s
Interface		Wire	ed LAN	1000BASE-T/100BASE-TX /10BASE-T
		Wireless LAN		Available by connecting the optional Wireless LAN Unit.
	USB			USB2.0 High-Speed
Weight		Approx. 13 kg		

# **Operating Environment**

Supported OS	Windows 11
	Microsoft Windows 10 (32 bit/64 bit)
	Microsoft Windows 8.1 (32 bit/64 bit)
	Microsoft Windows Server 2019
	Microsoft Windows Server 2016
	Microsoft Windows Server 2012 R2
	Microsoft Windows Server 2012
	OS X 10.9.5 or later, macOS 10.12 or later
Operation confirmed OS	CentOS 7 (x86_64)
	Ubuntu 20.04 (x86_64)
Computer	The following computer that runs one of the above operating systems must be supported.
	PC/AT compatible machine
СРИ	A computer that has Pentium 4 2 GHz or higher processor is recommended.
Memory	1 GB or more is recommended.
HDD	At least 250 MB is required.



- The above requirements may not satisfy the minimum system requirements of the supported operating systems. In that case, satisfy the minimum system requirements of the operating system.
- Epson has confirmed the operation of the above OS distributions and versions.
   Since there are many distributions and versions of Linux, Epson does not guarantee operation of any particular distribution or version.
   For OS versions and distributions other than those listed above, you need to check the operation by yourself.

### **Paper Specifications**

The paper that can be used with this printer are as follows.

Use the paper that is supported by the black ink you are using. If you use paper that is not supported by the black ink you are using, ink smear, bleeding, blurring, or faint print may occur.

### **Paper Types**

Paper Type	When using Matte Ink	When using Gloss Ink
Plain Paper	V	-
Matte Paper	V	V
Texture Paper	V	-
Synthetic	V	V
Wristband Paper	V	-
Glossy paper	-	V
Glossy Film	-	V
High Glossy Paper	-	V



- If you use paper that does not satisfy the required specifications, it may cause paper jams or lead to a drop of paper feed accuracy, barcode readability, and print quality.
- Do not paste or tape the end edge of roll paper to the core. Otherwise, the printer will fail to detect the end of the paper resulting in wasting multiple labels on the roll paper.
- If you are using synthetic labels with backing sheet made of paper, or labels with polyethylene laminated backing sheet, paper curl may occur depending on storage and usage environmental conditions. Because the degree of expansion and contraction due to heat and moisture varies between the plastic materials, such as the synthetic and polyethylene, and the paper materials. If you use the curled paper, the paper may be rubbed against the print head causing ink smear on printouts or paper jams.
- Do not use paper sheets connected to each other with pieces of tape or other material. If you use the connected paper, the seams may cause false detection, or the paper may be rubbed against the print head causing ink smear on printouts or paper jams.
- When using matte black ink, if you touch label surface immediately after printing, ink may adhere to your fingers.
- If labels less than 10 mm in length are automatically cut, they may stay near the fixed blade and be difficult to remove.

## Paper Shape/Form/Size

# Roll Continuous Paper (with or without Black Mark)

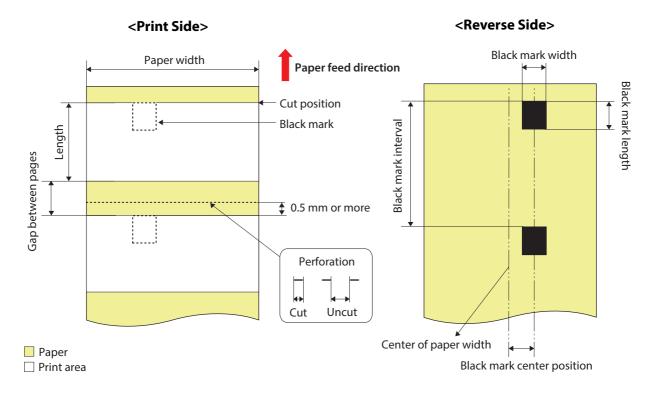
# Paper width Paper feed direction Paper width Paper feed direction Cut position Black mark Black mark length Paper Print area Reverse Side> Black mark width Paper feed direction Cut position Black mark Black mark center position

ltem	Specifications		
item	Continuous Paper	Continuous Paper (Black Mark)	
Paper Type	Plain paper, Matte paper, Glossy paper		
Paper width	25.4 to 108 mm		
Black mark position	-	See the above figure	
Black mark width	-	13 mm or more	
Black mark length	-	At least 4 mm, With 4 mm or more of space around the mark	
Black mark center position	-	8.5 +/- 1 mm	
Black mark interval	-	8 to 406.4 mm	
Paper thickness	0.084 to 0.131 mm		
Roll core outer diameter	44.1 mm or more		
Roll paper outer diameter	Up to 101.6 mm		
Winding direction	The side to be printed must face outward		
Holes and cutouts	Paper with holes or cutouts cannot be used		



Since the black mark detector is not located at the center of the paper width, black marks on both sides can be detected no matter which edge of the paper is printed from.

# Fanfold Continuous Paper (Black Mark)

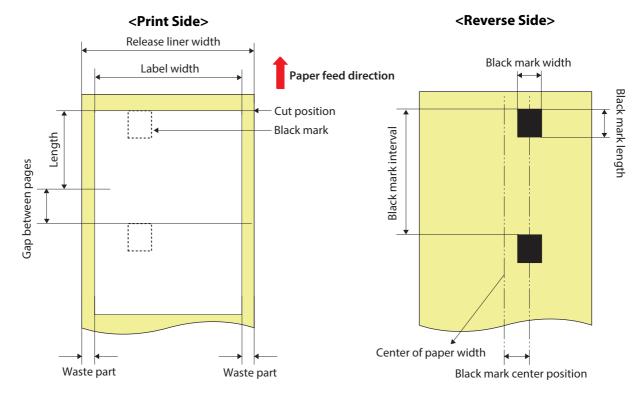


ltem	Specifications
Paper Type	Plain paper, Matte paper, Glossy paper
Paper width	50 to 108 mm
Black mark position	See the above figure. At least 0.5 mm away from the perforation
Black mark width	13 mm or more
Black mark length	At least 4 mm, With 4 mm or more of space around the mark
Black mark center position	8.5 +/- 1 mm
Black mark interval	8 to 304.8 mm
Paper thickness	0.119 to 0.131 mm
Perforation interval	152.4 to 304.8 mm
Number of folds	500 or less
Perforation form	3 to 5 mm of slit length with 1 mm interval
	* There should be no slits at both side edges of paper
Holes and cutouts	Paper with holes or cutouts cannot be used



- Auto cutting on the perforation lines will generate scraps of paper that may cause problems. Also, auto cutting ahead of the perforation line may cause problems when feeding paper. Therefore, perform auto cutting when paper is fed at least 0.5 to 1 mm away from the perforation line.
- Since the black mark detector is not located at the center of the paper width, black marks on both sides can be detected no matter which edge of the paper is printed from.





Paper
Print area

ltem	Specifi	ications	
item	Without black marks	With black marks	
Paper Type	Plain paper, Matte paper, Synthetic paper, Glossy paper, Glossy film, High glossy paper, Texture paper		
Release liner width	25.4 to 112 mm		
Label width	21.4 to 108 mm		
Waste part on the left and right	2 +/- 0.5 mm		
Black mark position	-	See the above figure	
Black mark width	-	13 mm or more	
Black mark length	-	At least 4 mm, With 4 mm or more of	
		space around the mark	
Black mark center position	-	8.5 +/- 1 mm	
Black mark interval	-	8 to 406.4 mm	
Paper thickness	0.159 to 0.240 mm		
Roll core outer diameter	44.1 mm or more		
Roll paper outer diameter	Up to 101.6 mm		
Winding direction	The side to be printed must face outward		
Holes and cutouts	Paper with holes or cutouts cannot be used		



- To prevent adhesive from adhering to the roll paper supply unit, use label paper from which the left and right wasted parts are removed.
- Since the black mark detector is not located at the center of the paper width, black marks on both sides can be detected no matter which edge of the paper is printed from.

# Roll Die-cut Label (Gap/Black Mark)

□ Paper□ Print area

### <Reverse Side> <Print Side> Release liner width Black mark width Label width Paper feed direction Black mark length Label corner R Label length Black mark Gap between pages 2 mm or more Perforation Cut Uncut Waste part Waste part Black mark center position

ltem	Specifications		
item	Die-cut label (Gap)	Die-cut label (Black Mark)	
Paper Type	Plain paper, Matte paper, Synthetic paper, Glossy paper, Glossy film, High glossy paper, Texture paper		
Release liner width	25.4 to 112 mm		
Label width	21.4 to 108 mm		
Label length	8 to 406.4 mm		
Gap between pages	2 to 6 mm		
Waste part on the left and right	2 +/- 0.5 mm		
Waste width	-	1.5 mm or more	
Label corner R	1.5 mm or less		
Black mark position	-	See the above figure. Leading edge of the mark should be aligned with that of the laborated with the should be aligned.	
Black mark width	-	13 mm or more	
Black mark length	-	At least 4 mm, With 4 mm or more of space around the mark	
Black mark center position	-	8.5 +/- 1 mm	
Black mark interval	-	10 to 412.4 mm	
Paper thickness	0.159 to 0.240 mm		
Roll core outer diameter	<ul> <li>44.1 mm or more (plain paper, matte paper, or synthetic paper)</li> <li>56.8 mm or more (paper types other than above)</li> </ul>		
Roll paper outer diameter	Up to 101.6 mm		
Winding direction	The side to be printed must face outward		

ltem	Specifications  Die-cut label (Gap)  Die-cut label (Black Mark)	
item		
Perforation form	3 to 5 mm of slit length with 1 mm interval  * There should be no slits at both side edges of paper	
Holes and cutouts	Paper with holes or cutouts cannot be used	

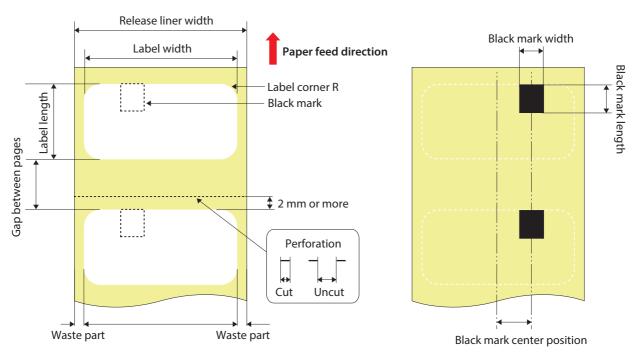


- Auto cutting on the perforation lines will generate scraps of paper that may cause problems. Also, auto cutting ahead of the perforation line may cause problems when feeding paper. Therefore, perform auto cutting when paper is fed at least 0.5 to 1 mm away from the perforation line.
- Place the black mark at least 2 mm away from the perforation.
- Do not use paper whose gap between pages is outside the specification, as it may cause a paper jam.
- Since the black mark detector is not located at the center of the paper width, black marks on both sides can be detected no matter which edge of the paper is printed from.

# Fanfold Die-cut Label (Black Mark)

### <Print Side>

### <Reverse Side>



Paper
Print area

Item	Specifications		
Paper Type	Plain paper, Matte paper, Synthetic paper, Glossy paper, Glossy film, High glossy paper, Texture paper		
Release liner width	50 to 112 mm		
Label width	46 to 108 mm		
Label length	8 to 301.8 mm		
Gap between pages	2 to 6 mm		
Waste part on the left and right	2 +/- 0.5 mm		
Waste width	1.5 mm or more		
Label corner R	1.5 mm or less		
Black mark position	See the above figure. Leading edge of the mark should be aligned with that of the label		
Black mark width	13 mm or more		
Black mark length	At least 4 mm, With 4 mm or more of space around the mark		
Black mark center position	8.5 +/- 1 mm		
Black mark interval	10 to 304.8 mm		
Paper thickness	0.161 to 0.240 mm		
Perforation interval	152.4 to 304.8 mm		
Number of folds	500 or less		
Perforation form	3 to 5 mm of slit length with 1 mm interval * There should be no slits at both side edges of paper		
Holes and cutouts	Paper with holes or cutouts cannot be used		



- Auto cutting on the perforation lines will generate scraps of paper that may cause problems. Also, auto cutting ahead of the perforation line may cause problems when feeding paper. Therefore, perform auto cutting when paper is fed at least 0.5 to 1 mm away from the perforation line.
- Place the black mark at least 2 mm away from the perforation.
- Do not use paper whose gap between pages is outside the specification, as it may cause a paper jam.
- Since the black mark detector is not located at the center of the paper width, black marks on both sides can be detected no matter which edge of the paper is printed from.

# Wristband Paper

# Paper width Paper feed direction Cut position Black mark | Interval | Interva

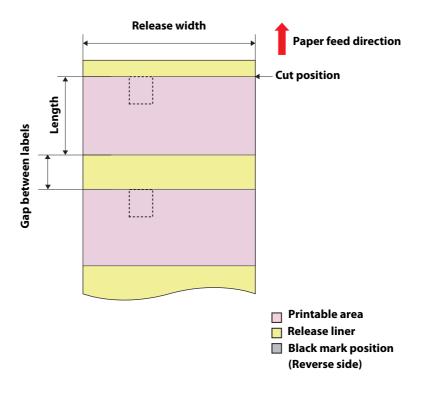
Item	Specifications	
Paper Type	WB-S/M/L series (synthetic paper)	
Paper width	36 mm	
Black mark position	See the above figure	
Black mark width	13 mm or more	
Black mark length	At least 4 mm, With 4 mm or more of space around the mark	
Black mark center position	8.5 +/- 1 mm	
Black mark interval	• 184.1 mm (WB-S)	
DIACK IIIAIK IIILEI VAI	• 292.1 mm (WB-M/L)	
Paper thickness	0.225 mm	
Roll core outer diameter	56.8 mm or more	
Roll paper outer diameter	Up to 101.6 mm	
Winding direction	The side to be printed must face outward	
Holes and cutouts	2.5 mm or less of hole diameter	



- When using the WB-S/M/L series, install an attachment (WA-34) to the printer. ("OT-WA34" on page 330)
- Do not print on the snap mounting holes or on the range of 2 mm around the holes. Doing so may cause the printer to malfunction.
- When printing barcodes, make sure that the barcode can be read correctly in actual operation, including verification of the quiet zone.
- Since the black mark detector is not located at the center of the paper width, black marks on both sides can be detected no matter which edge of the paper is printed from.

### **Printable Area**

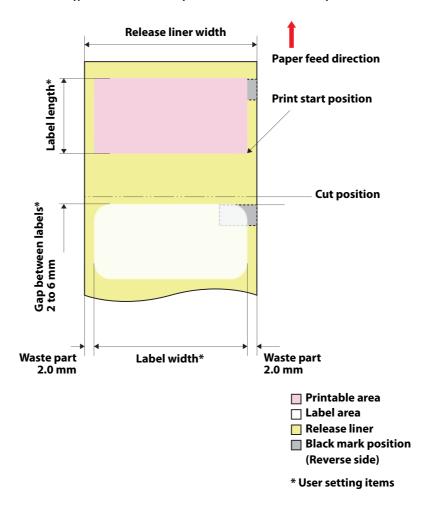
### **Continuous Paper, Wristband Paper**





- In the case of borderless printing, the ink may adhere to the label or your hand, causing stains, or to the inside of the printer, causing a malfunction.
- Adding a margin of 1.5 mm or more to the top of the print area may reduce the occurrence of ink smudges and white streaks.

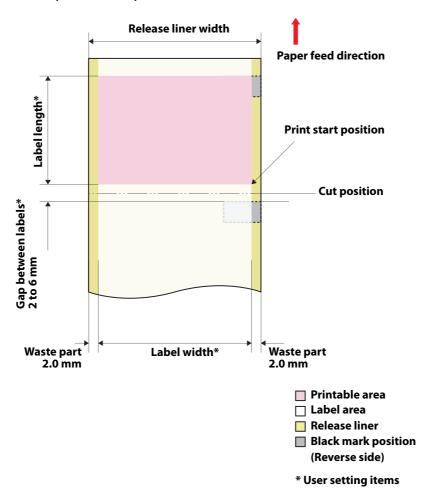
### Die-cut Label (Black Mark), Die-cut Label (without black marks)





- In the case of borderless printing, the ink may adhere to the label or your hand, causing stains, or to the inside of the printer, causing a malfunction.
- Adding a margin of 1.5 mm or more to the top of the print area may reduce the occurrence of ink smudges and white streaks.

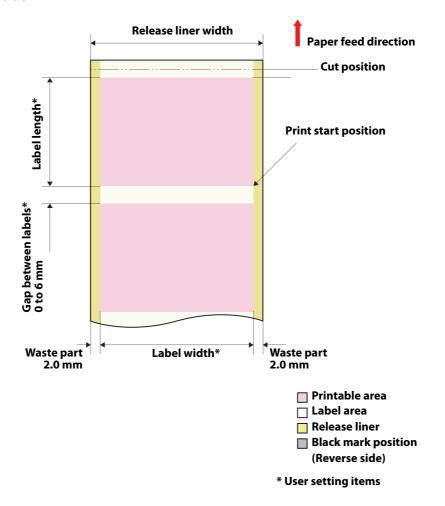
### Full-page Label (Black Mark)





- In the case of borderless printing, the ink may adhere to the label or your hand, causing stains, or to the inside of the printer, causing a malfunction.
- Adding a margin of 1.5 mm or more to the top of the print area may reduce the occurrence of ink smudges and white streaks.

### **Full-page Label**





- In the case of borderless printing, the ink may adhere to the label or your hand, causing stains, or to the inside of the printer, causing a malfunction.
- Adding a margin of 1.5 mm or more to the top of the print area may reduce the occurrence of ink smudges and white streaks.

# **Electrical Specifications**

Item		Specifications
Power supply		Dedicated AC adapter (AC ADAPTER, K1, Model number: M248B)
Rated voltage		42 V DC
Rated current		1.38 A
Power consumption*	Operating*	Approx. 28.2 W on average
	Standby	Approx. 2.6 W on average
	Power off	Approx. 0.13 W on average

<sup>\*</sup> Based on Epson evaluation conditions

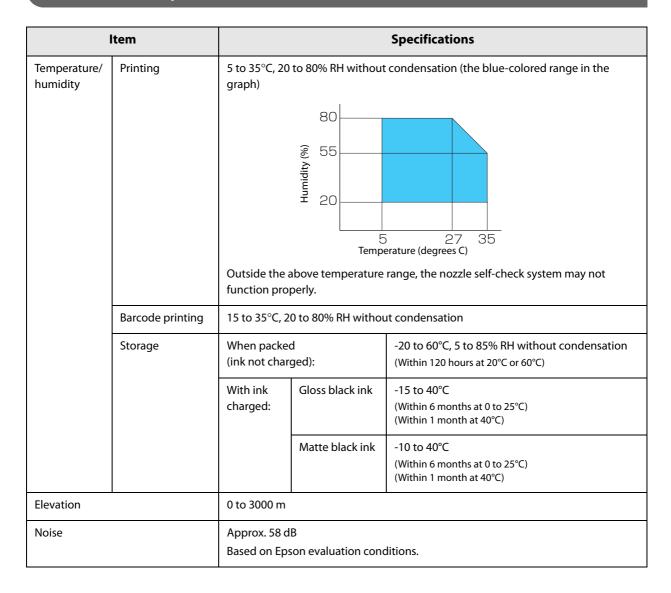
# Reliability

Product life	Printer	When any one of the following is reached  • 5 years  • 150 km or 1,500,000 pages  • 6,000,000 cycles of carriage movement  • 1,500,000 times of valve operation inside the ink path	
	Auto cutter mechanism	Plain roll paper	1,500,000
	(Number of cuts)	Matte roll paper	700,000
		Glossy roll paper	700,000
		Wrist band	200,000
		Die-cut label backing (Plain paper)	1,500,000
		Die-cut label backing (Texture paper)	500,000
	Die-cut label backing (Matte paper)	1,500,000	
	Die-cut label backing (Synthetic)	500,000	
		Die-cut label backing (Glossy paper)	1,500,000
		Die-cut label backing (Glossy film)	500,000
		Die-cut label backing (High Glossy paper)	1,500,000
		Full-page label (Plain paper)	750,000
		Full-page label (Matte paper)	500,000
	Full-page label (Synthetic)	100,000	
		Full-page label (Glossy paper)	300,000
		Full-page label (Glossy film)	100,000
		Full-page label (High Glossy paper)	200,000
	Full-page label (Texture paper)	100,000	



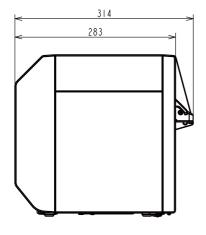
- Depending of paper used, the reliability values may differ.
- The cutter reliability may differ if paper is changed to wider paper because it causes differences partially in degree of wear of the cutter blade.

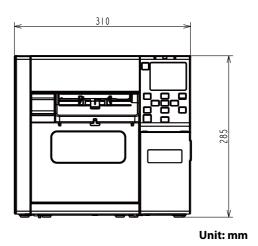
### **Environmental Specifications**



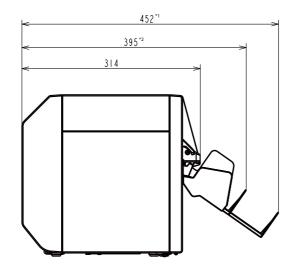
# **Overall Dimensions**

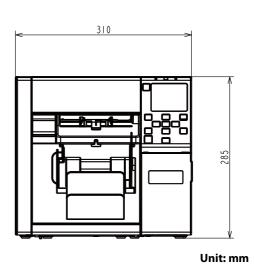
ltem	Specifications
Height	285 mm
Width	310 mm
Depth	283 mm





### With the paper tray installed





- \*1: When the paper tray is extended \*2: When the paper tray is retracted

# **Consumables Specifications**

# Ink Cartridges

Model number	CW-C4000u	SJIC41P-BK, SJIC41P-MK, SJIC41P-C, SJIC41P-M, SJIC41P-Y
	CW-C4000e	SJIC42P-BK, SJIC42P-MK, SJIC42P-C, SJIC42P-M, SJIC42P-Y
	CW-C4010	SJIC42P-BK, SJIC42P-MK, SJIC42P-C, SJIC42P-M, SJIC42P-Y
	CW-C4020	SJIC43P-BK, SJIC43P-MK, SJIC43P-C, SJIC43P-M, SJIC43P-Y
	CW-C4030	SJIC44P-BK, SJIC44P-MK, SJIC44P-C, SJIC44P-M, SJIC44P-Y
	CW-C4040	SJIC45P-BK, SJIC45P-MK, SJIC45P-C, SJIC45P-M, SJIC45P-Y
	CW-C4050	SJIC46P-BK, SJIC46P-MK, SJIC46P-C, SJIC46P-M, SJIC46P-Y
Туре		4 individual color cartridges
Ink colors		Black (gloss black, matte black), cyan, magenta, yellow
Ink type		Pigmented ink
Expiration date		6 months after installation in the printer, 3 years from the production date including the period of use
Storage temperature	Transporting (without unpacking)	-20 to 60°C (within 5 days when 60°C)
	Storage (without unpacking)	-20 to 40°C (within 1 month when 40°C)
	Installed	-20 to 40°C (within 1 month when 40°C)

# Maintenance Box

Model number		SJMB4000
Туре		Maintenance box with integrated waste ink absorbing material
Storage temperature	Storage temperature Transporting (without unpacking)	-20 to 60°C (within 5 days when 60°C)
	Storage (without unpacking)	-20 to 40°C (within 1 month when 40°C)
	Installed	-20 to 40°C (within 1 month when 40°C)

# **Optional Products**

### OT-PT40

The OT-PT40 is a paper tray that allows you to temporarily collect printed labels.

The OT-PT40 can store the paper of the following sizes.

Maximum paper size: 105 x 148 mm (width x length)

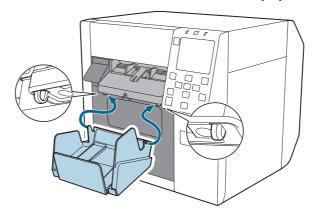
Minimum paper size: 76 x 54 mm (width x length)



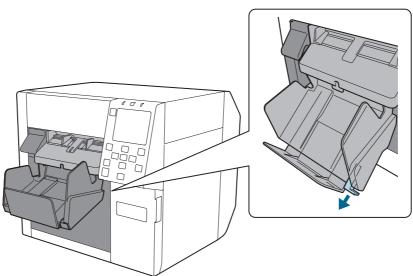
- In the case of roll paper, the paper is curled so if multiple labels or sheets are printed and ejected, they may overflow the OT-PT40.
- Depending on the printer model, OT-PT40 comes with the printer.

Follow the steps below to install the OT-PT40.

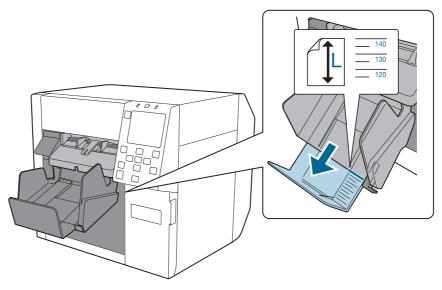
### 1 Attach the OT-PT40 to the hooks on the bottom of the paper ejection guides.



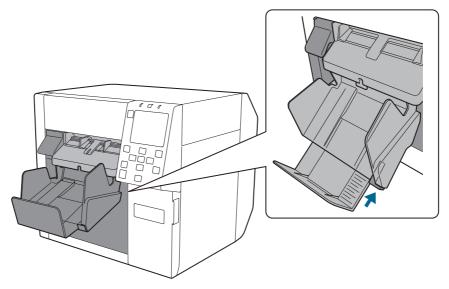
### **7** Pull the lever at the bottom right of the OT-PT40 to release the lock.



**3** Extend the tray until the paper length indication matches with the length of your paper.



**A** Push in lever at the bottom right of the tray to lock it in place.



### OT-WA34

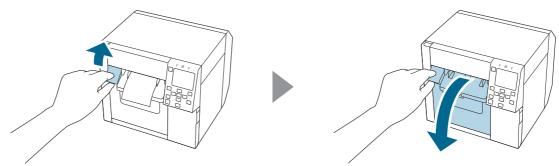
OT-WA34 is an attachment that enables the printer to print on wristband. Attach this to the printer for printing on wristband.



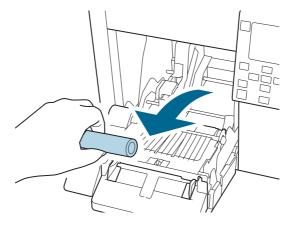
- Attach OT-WA40 only for printing on wristband (WB-L1/M1/S1). It is not necessary for printing on any other type of paper or label.
- Be careful not to hurt yourself when attaching or removing OT-WA34 to/from the printer.
- Read the instruction manual included with the wristband to use it safely and correctly.

### **Attaching OT-WA34**

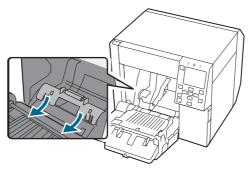
Open the front cover.



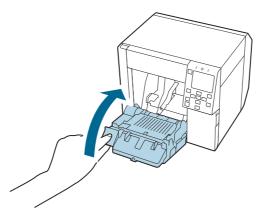
Remove roll paper or paper core from the printer.



3 Attach the OT-WA34 by inserting it into the grooves inside the front cover.

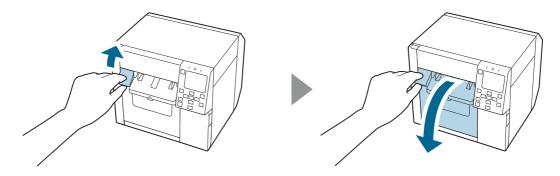


## Close the front cover.

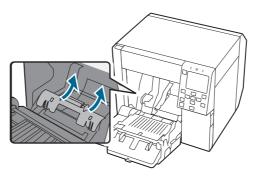


# Removing OT-WA34

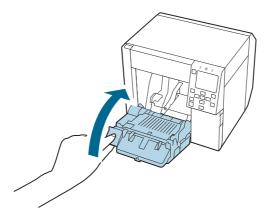
1 Open the front cover.



**7** Remove the OT-WA34.



**2** Close the front cover.



# Downloading Printer Driver, Utilities, and Manuals

The latest versions of the printer driver, utilities, and manuals can be downloaded from the following URLs. For customers in North America, go to the following web site:

www.epson.com/support/

For customers in other countries, go to the following web site:

www.epson-biz.com/

### **Label Print Applications**

Some commercially available label print applications offer a printer driver for this printer allowing you to use the printer easily from the applications. By using the printer driver, you can make the printer settings and use the printer functions.

When you use the printer driver, you do not need to use the Epson printer driver.

The label print applications that offer a printer driver for this printer are listed below.

- BarTender
- NiceLabel
- CODESOFT

### How to Get Software

BarTender

https://www.bartendersoftware.com/

NiceLabel

https://www.nicelabel.com/

**CODESOFT** 

https://www.teklynx.com/

# For Inquiries

If you have any technical questions about this printer, or if any problems occur, please contact us with the following information.



- Contents of technical questions must be about our printers only. For those about products of Microsoft Corporation or other companies, please contact them.
- If any problems occur, check whether there is any physical cause (such as connection or power problems) before contacting us.

$\Box$ Type of inquiry: Problem / Qu	aestion		
☐ Date:			
☐ Your company:			
☐ Department:			
☐ Your name:			
☐ Phone/Fax/Email:			
☐ Computer information:			
<ul> <li>Manufacturer</li> </ul>			
• CPU			
☐ OS (with Service Pack inform	ation):		
☐ Model name of the printer:			
☐ Printer driver: Installed (OS d	lriver or Epson driver) / Not installed		
☐ Connection type: USB / Ether	rnet / MS shared (Client / Server)		
☐ Firewall: OS standard / Person	nal (Product name/Ver.) / None		
☐ Your application information:			
Windows service operation	ı / Normal EXE operation		
☐ EPSON application status:	EpsonNet WebManager / EpsonNet Log Browser / Epson Monitoring Tool / EpsonNet Simple Viewer / EpsonNet SDK for Windows / Printer Setting / Other (Application name)		
☐ Phenomenon of the problem	(or content of the question):		
☐ System configuration:	Hardware configuration such as computer and network, and Software module configuration		
☐ Procedure of reproduction of	the problem:		
	Operation procedure, functional procedure, function and argument value to reproduce		
☐ Reproducibility of the probler	n: Yes ( out of times) / No		