

# TM-C3500 Series

## Technical Reference Guide

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### Product Overview

Describes features and general specifications for the product.

### Setup

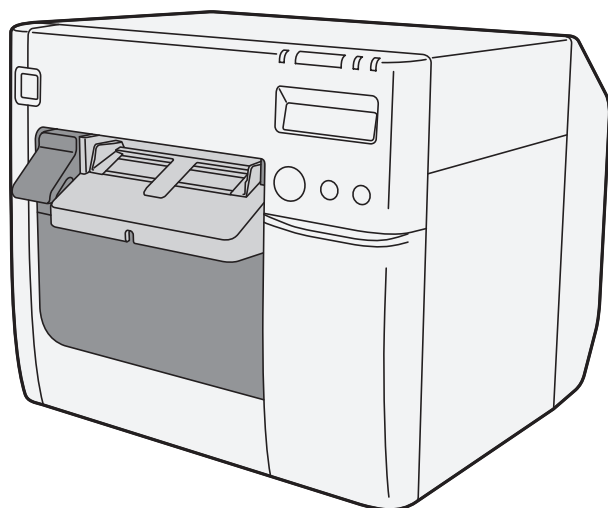
Describes setup and installation of the product and peripherals.

### Handling

Describes how to handle the product.

### Application Development Information

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



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## For Safety

### Key to Symbols

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.

 <b>WARNING</b>	You must follow warnings carefully to avoid serious bodily injury.
 <b>CAUTION</b>	Provides information that must be observed to prevent damage to the equipment or loss of data. <ul style="list-style-type: none"><li>• Possibility of sustaining physical injuries.</li><li>• Possibility of causing physical damage.</li><li>• Possibility of causing information loss.</li></ul>
 <b>CAUTION</b>	Provides information that must be observed to avoid damage to your equipment or a malfunction.
 <b>NOTE</b>	Provides important information and useful tips.

## Warnings



- **Shut down your equipment immediately if it produces smoke, a strange odor, or unusual noise.**  
Continued use may lead to fire. Immediately unplug the equipment and contact your dealer or a Seiko Epson service center for advice.
- **Never attempt to repair this product yourself. Improper repair work can be dangerous.**
- **Never disassemble or modify this product. Tampering with this product may result in injury or fire.**
- **Use the specified AC Adapter, K (Model: M248A) only.**  
Connection to an improper power source may cause fire.
- **Be sure your power cable meets the relevant safety standards and includes a power-system ground terminal (PE terminal).**  
Otherwise shock may result. If you acquire a system with different safety standards, use an AC cable that meets the acquired safety standards.
- **Do not allow foreign matter to fall into the equipment. Penetration by foreign objects may lead to fire.**
- **If water or other liquid spills into this equipment, unplug the power cord immediately, and then contact your dealer or a Seiko Epson service center for advice. Continued usage may lead to fire.**
- **Do not use aerosol sprayers containing flammable gas inside or around this product. Doing so may cause fire.**



## Cautions



- Do not connect cables in ways other than those mentioned in this manual. Different connections may cause equipment damage and burning.
- Be sure to set this equipment on a firm, stable, horizontal surface. The product may break or cause injury if it falls.
- Do not use in locations subject to high humidity or dust levels. Excessive humidity and dust may cause equipment damage or fire.
- Do not place heavy objects on top of this product. Never stand or lean on this product. Equipment may fall or collapse, causing breakage and possible injury.
- To ensure safety, unplug this product before leaving it unused for an extended period.
- Do not remove the ink cartridge from the product when you ship it.
- Be sure to note the following when using the ink cartridge:
  - \* Do not turn off the product or open the ink cartridge cover while charging ink (Power light is flashing). Opening the cover may cause the ink to be recharged, resulting in more ink being consumed. Also, it may cause printing malfunction.
  - \* Do not disassemble the ink cartridge. Doing so may cause ink to adhere eyes and skin.
  - \* Do not disassemble and remodel the ink cartridge. Doing so may cause printing malfunction.
  - \* Keep ink cartridges out of the reach of children.
- If ink contacts your skin, eyes, or mouth, take the following actions. -When it 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 and consult with a doctor.
- Be sure to note the following when using the maintenance box:
  - \* Do not dismantle the Maintenance box.
  - \* Do not touch the IC chip on the cartridge.
  - \* Keep out of reach of children, and do not drink.
  - \* Do not reuse a maintenance box which has removed and detached a long period.

## *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.

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## About this Manual

### Aim of the Manual

This manual was created to provide information on development, design, and installation of systems and development and design of printer applications for developers.

### Manual Content

The manual is made up of the following sections:

Chapter 1	<a href="#">Product Overview</a>
Chapter 2	<a href="#">Setup</a>
Chapter 3	<a href="#">Handling</a>
Chapter 4	<a href="#">Application Development Information</a>

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# Product Overview

This chapter describes features and specifications of the product.

## Features

The TM-C3500 series (TM-C3500/ TM-C3510/ TM-C3520) are a 4-color ink jet printer that offers high speed easy operability and high reliability required for on-demand label printing.

### Printing

- High-speed printing
  - \* 103 mm/s (printing width 56 mm, 360 dpi × 360 dpi, bi-directional printing)
  - \* 52 mm/s (printing width 56 mm, 720 dpi × 360 dpi, bi-directional printing)



The print speed is different depending on the resolution and the printing width.

- Color printing
  - \* KCMY 4-color printing
  - \* Print resolution: Plain, Plain label 360 dpi × 360 dpi  
: Others 360 dpi × 360 dpi, 720 dpi × 360 dpi  
dpi: dots per 25.4 mm (dots per inch)
- Supports printing on various types of paper
  - \* Roll paper, Fanfold paper
  - \* Continuous paper, Black mark continuous paper, Full-page label, Transparent full-page label, Die-cut label, Transparent die-cut label  
(Detects positions of black marks and gaps between labels)
  - \* Plain, Matte, Plain label, Matte label, Synthetic label, Glossy label
  - \* Wrist Band
- System to prevent ink from smearing out of the printable area such as on the backing paper of Die-cut Label.
- System to prevent missing read or missing color caused by missing dots.

### Handling

- Replacing the roll paper and the ink cartridge can be done only by operation in the front.
- Multiple printed sheets can be stored in the paper ejection tray. The paper ejection tray cannot store multiple sheets of roll paper.

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## Reliability

- Pigment ink for excellent light-fastness and water-resistance.
- High reliability system to prevent missing dots with auto nozzle check system installed.

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## Software

- Windows® printer driver is available.
- The printer driver has the built-in barcode font, and available from .NET application.
- Reprint function allows printing to the page that was not printed after solving paper jam error or an error of paper out.
- The printer status can be obtained in network environment by EpsonNet SDK.  
(SDK is provided as API to make original application for obtained printer status.)
- Dedicated sample program is prepared.  
(program language: VB.NET, C + +, C#)
- EPDI (EPSON Printer Driver Interface) for TM-C3500 allows the printer driver setting also from the application.

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## Others

- Auto-cutter
- Buzzer

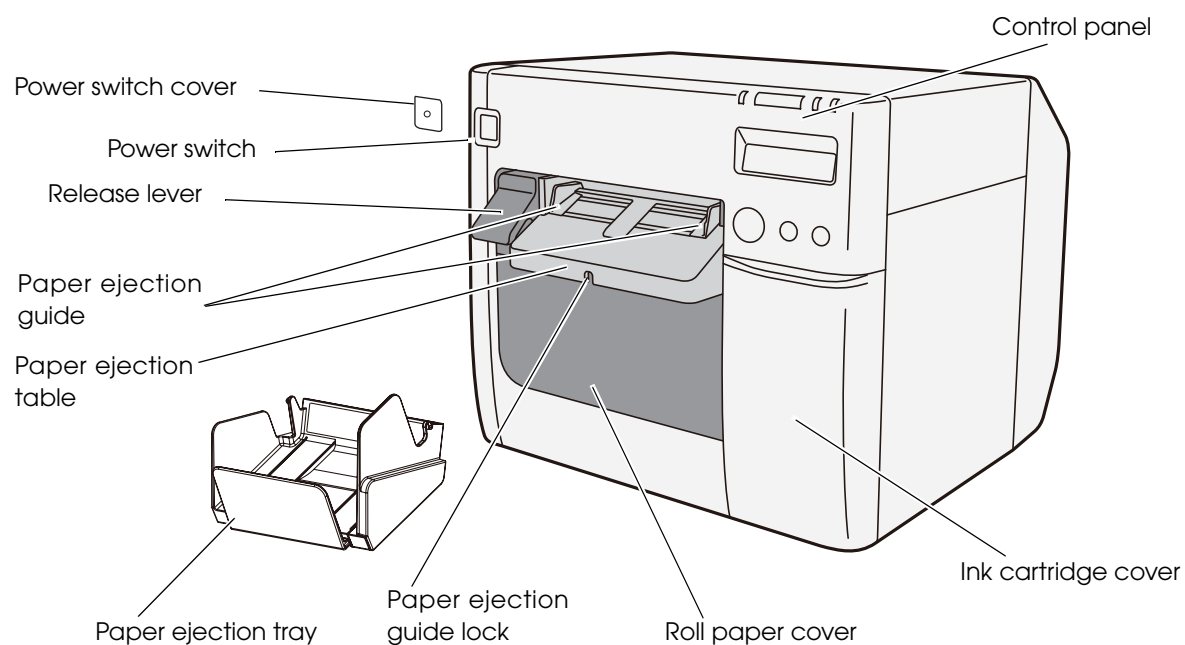
## Model

- The TM-C3500 Series features the following models.
- TM-C3500: Model for regions not listed below.
- TM-C3510: Taiwan / Southeast Asia model
- TM-C3520: China (Hong Kong) model

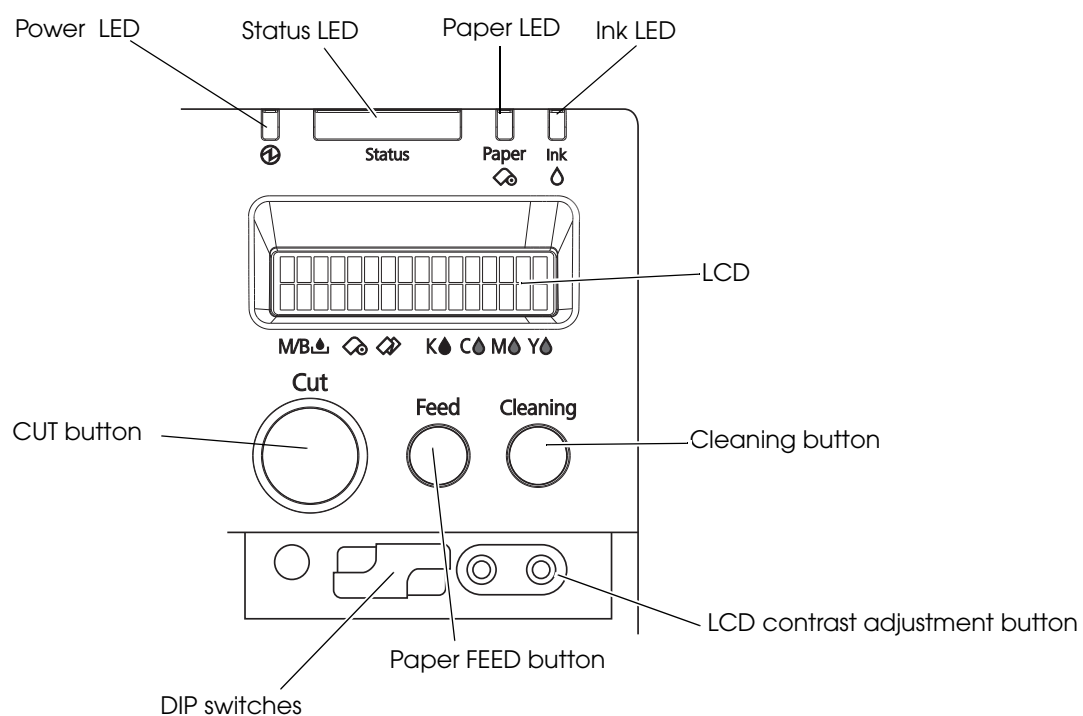


## Parts Name and Function

### Front

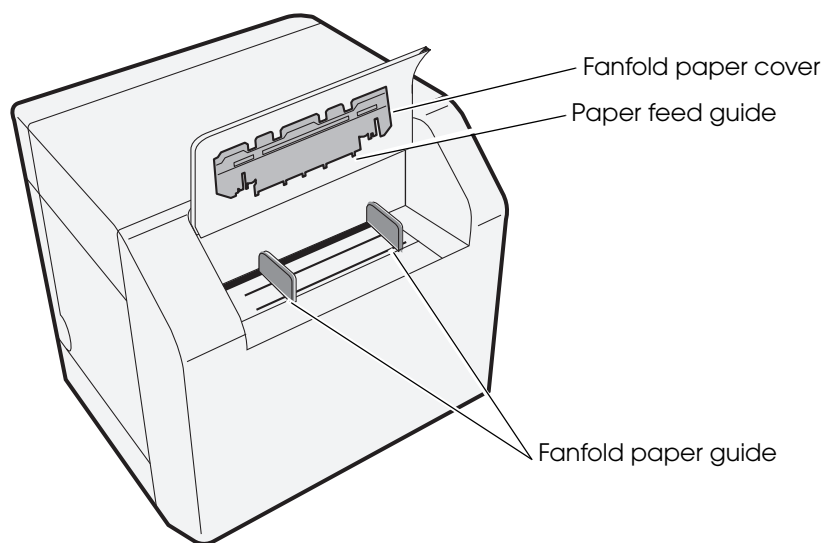


### Control panel

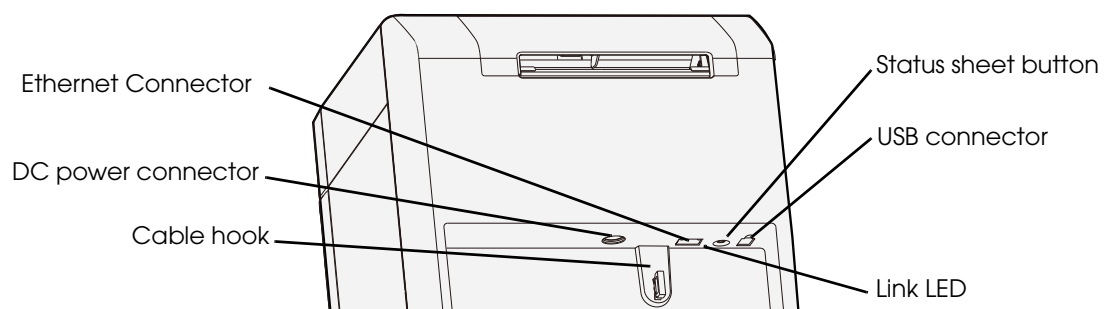


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## Back



## Connector (lower rear)



## Power Switch



**Before turning on the printer, be sure to check that the AC adapter is connected to the power supply.**

- ❑ When DIP switch 1 is OFF:
  - Turns the power on after the POWER button has been pressed while the power is OFF.
  - Turns the power off after the POWER button has been pressed for approximately 0.5 seconds while the power is ON.
- ❑ When DIP switch 1 is ON:
  - Resets the printer after POWER button has been pressed for approximately 0.5 seconds.



See ["Setting the DIP Switches" on page 82](#) for DIP switch setting.

## Paper FEED button

- ❑ If "Media position detection settings" is set to "Full-page label/Continuous paper/Transparent full-page label", feeds the paper continuously.
  - The paper is fed by 15 mm if FEED button is pressed once.
  - If the FEED button is held down, the paper is continuously fed until the button is released.  
(6 seconds at a maximum)
- ❑ If "Media position detection settings" is set to "Die-cut label (BM)", "Black mark continuous paper", or "Die-cut label (Gap)/Transparent die-cut label", feeds the paper to the print starting position.



When the printer is in the power saving mode when its vacuum fan is stopped, starting up and stabilizing the rotation of the vacuum fan requires some time. Approximately 2 seconds is required from the point when the paper FEED button is pressed until the point when paper feed starts.

## CUT button

- ❑ If "Media position detection settings" is set to "Full-page label/Continuous paper / Transparent full-page label", feeds the paper to the autocutting position for the top of the next page, and performs autocutting.
- ❑ If "Media position detection settings" is set to "Die-cut label (BM)", "Black mark continuous paper", or "Die-cut label (Gap)/Transparent die-cut label", feeds the paper to the autocutting position according to the black mark or the gap between labels, and performing autocutting.

### NOTE

- However, in order to prevent errors due to pieces of paper, even if you press the cut button again, cutting is not performed in a position where cutting was already performed.
- Approximately 2 seconds is required from the point when the CUT button is pressed until the point when paper cut starts.

## Cleaning button

If the cleaning button is held down for approximately 3 seconds, head cleaning is performed.

The following settings are possible from the driver regarding cleaning operations when the cleaning button is held down.

No.	During stand-by	During printing
1	Disabled	Disabled
2	Head cleaning performed	Disabled
3	Head cleaning performed	Printing canceled -> head cleaning performed -> printing resumed

## STATUS SHEET button

Press the status sheet button to print the status sheet.

If you turn on the power while holding the status sheet button, and continue to hold it for 10 seconds or more, you can return the Ethernet interface settings to factory default settings.

## LCD contrast adjustment button

Adjusts the LCD contrast.

**NOTE**

- The LCD contrast adjustment button is located under the ink cartridge cover.
- The adjusted value is saved in the non-volatile memory. Even after the power is turned on again, the adjusted value saved last time is applied.

## Connectors

All cables are connected to the connector on the lower rear of the printer.

- Power supply connector: Connects cable of the AC adapter.
- USB/Ethernet Connector: Connects the printer with the host computer via interface.
- Link LED: Indicates the printer network status.






Printer status	Link LED
Power off	Off
Not connected to the network	Off
Network established	On
Receiving data	Blinking


































## Status/Error Indications






The printer status is indicated by a combination of LED lighting/flashing and LCD indication. When an error occurs, you can find out the cause and the remedy from the LED & LCD indication for the error.






































### NOTE

- The LCD display language can be switched with the DIP switches. See ["Setting the DIP Switches" on page 82](#).
- For error recovery methods, see ["Troubleshooting" on page 162](#) or the help for the driver. (For details on how to display HELP for EPSON Printers, see the help for the driver on page 144.)

/ : Lit up   / : Blinking   : Off   —: No change   ##: Error code

LED				LCD	Printer Status
Status	Power	Paper	Ink		
		—	—	READY	In ready
		—	—	INITIALIZING	In initializing
	 (Fast)	—	—	POWER OFF	In power off sequence
		—	—	PRINTING	In printing
		—	—	INK CHARGING	In ink charging
		—	—	WORKING	In working
		—	—	HEAD MAINTENANCE	In print head maintenance state
	—		—	MEDIA FORM ERROR	Media form error (*)
	—		—	MEDIA SIZE ERROR	Media size error (*)
	—		—	PAPER JAM ERR ##	Paper jam error (*)
	—		—	PAPER REMOVAL ER	Paper removal error (*)
—	—		—	PAPER OUT	Paper out (*)
	—		—	PAPER OUT ERROR	Paper out error (*)
	—		—	ROLL COVER OPEN	Roll paper cover open (*)
	—	—		INK COVER OPEN	Ink cartridge cover open (*)
	—	—		NO INK CARTRIDGE	No ink cartridge (*)
	—	—		INK READ ERROR	Ink cartridge read error (*)

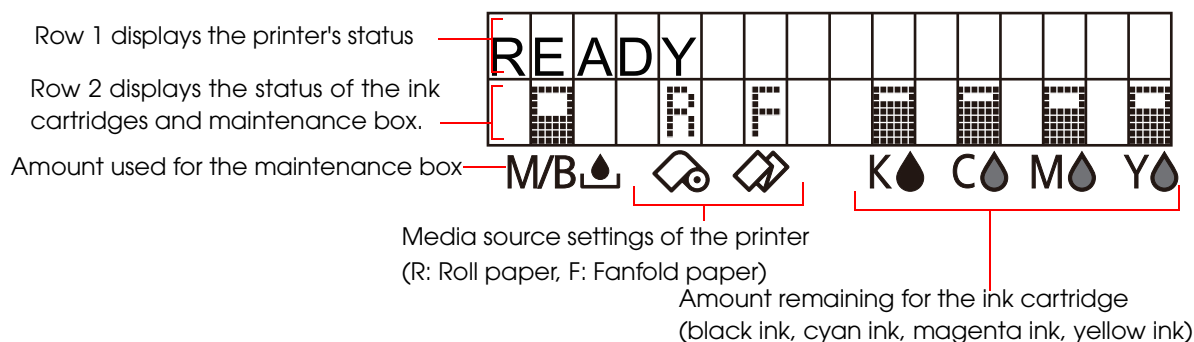
 /  : Lit up  
  /  : Blinking  
  : Off  
 — : No change  
 ## : Error code

LED				LCD	Printer Status
Status	Power	Paper	Ink		
	—	—		M/B COVER OPEN	Maintenance box cover open (*)
	—	—		NO MAINT BOX	No maintenance box (*)
	—	—		M/B READ ERROR	Maintenance box read error (*)
—	—	—		INK LOW	Ink cartridge low
	—	—		REPLACE INK	Replace ink cartridge (*)
—	—	—		M/B NEAR FULL	Maintenance box near full
	—	—		REPLACE MAINT B	Replace maintenance box (*)
—	—	—	—	NOZZLE CLOGGED	Print head nozzle clogged (*)
—	—	—	—	CUT UNAVAILABLE	In cutter unavailable state (*)
—	—	—	—	SERVICE SOON ##	In service mode (*)
				PRINTER ERROR ##	Printer error (*)
				SERVICE REQD. ##	Service required (*)
 / 		 / 	 / 	UPDATING	In firmware updating (*)
 / 				UPDATING	Complete the firmware updating (*)
 / 				UPDATING	Failure in firmware updating (*)

\* Recovery method: See "[Troubleshooting](#)" on page 162.

## Ink Cartridge and Maintenance Box Status

You can check the status of the printer, the ink cartridges of each color, and the maintenance box from the LCD.



## Display of the ink cartridge, maintenance box status

Displays the status of ink cartridges and maintenance box with icons.

Icon	Status
	<ul style="list-style-type: none"> <li>• Display of amount remaining for the ink cartridge</li> <li>• Display of amount used for the maintenance box</li> </ul>
	<ul style="list-style-type: none"> <li>• Display for "Ink cartridge low"</li> <li>• Display for "Maintenance box near full"</li> </ul>
	<ul style="list-style-type: none"> <li>• Display for "Replace ink cartridge"</li> <li>• Display for "Replace maintenance box"</li> </ul>
	<ul style="list-style-type: none"> <li>• Display for "No ink cartridge"</li> <li>• Display for "Ink cartridge read error"</li> <li>• Display for "No maintenance box"</li> <li>• Display for "Maintenance box read area"</li> </ul>



## Beeper

When an error occurs while “Beep Notification Setting at an Error” is enabled, the beeper performs “Sound the beeper on an error” shown in the below table. The beeper continues to beep until all the causes of error are removed.

When “Completion Beeper Setting” is enabled, the printer performs “Beeper sound when the printer is not in an error state” shown in the below table.

- Frequency: Fixed to approximately 2.5 kHz
- Volume control: 2 levels on the hardware

Sounding period	Silent period	Number of the pattern repeated	Overall time	Number of times repeated	Printer event
500ms	300ms	3	5 seconds	Until the error factor is removed.	Sound the beeper on an error <ul style="list-style-type: none"> <li>• Service required</li> <li>• Printer error</li> <li>• Roll paper cover open</li> <li>• Ink cartridge cover open</li> <li>• Replace ink cartridge</li> <li>• No ink cartridge</li> <li>• Ink cartridge read error</li> <li>• Maintenance box cover open</li> <li>• Replace maintenance box</li> <li>• No maintenance box</li> <li>• Maintenance box read error</li> <li>• Media form error</li> <li>• Media size error</li> <li>• Paper jam error</li> <li>• Paper removal error</li> <li>• Paper out error</li> </ul>
300ms	-	None	-	1	Beeper sound when the printer is not in an error state <ul style="list-style-type: none"> <li>• Every page</li> <li>• The final page only</li> </ul>

### NOTE

- The volume can be set using the DIP switch. See ["Setting the DIP Switches" on page 82.](#)
- When the paper is in “Paper out” status, which is without printing data, the beeper does not sound.

## Auto nozzle check system

This product has an “Auto nozzle check system” that detects missing dots. You can select the “Nozzle check mode” depending on level of requirement for missing dots.

The following table shows the timing for auto nozzle check for each nozzle check mode (printing operation mode).

Timing for auto nozzle check	Anti-missing Dot Mode	Anti-missing Read Mode (default)	Anti-missing Color Mode	No Missing Dot Detection Mode
At printer power-on	Performed	Performed	Performed	Not Performed
During a pause	Performed	Performed	Performed	Not Performed
After printing page	Not Performed	Not Performed	Not Performed	Not Performed
Regular check during continuous printing	Performed	Performed	Performed	Not Performed
After cleaning the print head	Performed	Performed	Performed	Not Performed
After closing the roll paper cover	Performed	Performed	Performed	Not Performed
After closing the ink cartridge cover	Performed	Performed	Performed	Not Performed
After closing the maintenance box cover	Performed	Performed	Performed	Not Performed
After detecting a shock	Performed	Performed	Performed	Not Performed

The following table shows the conditions for permitted missing dots and auto cleaning for each nozzle check mode.

Condition	Anti-missing Dot Mode	Anti-missing Read Mode (Default)	Anti-missing Color Mode	No Missing Dot Detection Mode
Permitted missing dots	None	1 missing dot or less	No 2 consecutive missing dots and less than 9 missing dots	-
Auto cleaning conditions	1 missing dot or more	2 missing dots or more	3 or more consecutive dots or 10 or more missing dots	-

- Anti-missing Dot Mode

The auto nozzle check is performed at each timing, and by performing the auto head cleaning when necessary, missing dots are prevented.

**NOTE**

- Because the nozzle check is performed periodically during continuous printing, printing may be interrupted for approximately 8 seconds.
- If more than 1 missing dot is detected, the auto head cleaning is performed to resolve the missing dot.

- Anti-missing Read Mode

The auto nozzle check is performed at each timing, and by performing the auto head cleaning when necessary, missing reads due to missing dots are prevented.

**NOTE**

- Because the nozzle check is performed periodically during continuous printing, printing may be interrupted for approximately 8 seconds.
- If more than 2 missing dot is detected, the auto head cleaning is performed to resolve the missing dot.

- Anti-missing Color Mode

The auto nozzle check is performed at each timing, and by performing the auto head cleaning when necessary, missing colors due to missing dots are prevented.

**NOTE**

- Because the nozzle check is performed periodically during continuous printing, printing may be interrupted for approximately 8 seconds.
- If 3 or more consecutive missing dots or 10 missing dots or more are detected, the auto head cleaning is performed to resolve the missing dots.

- No Missing Dot Detection Mode

The auto nozzle check and the auto head cleaning are not performed.

**CAUTION**

- This "Auto nozzle check" system cannot detect 100% of dot missing cases.
- In cases extremely high reliability and safety is required, Epson recommends the use of font constructed of 3 vertical dots or more in "Anti-missing Dot Mode" or "Anti-missing Read Mode" to prevent misreadings due to missing dots or ink drop distortions.
- If an unfixable clogged nozzle occurs during auto cleaning after missing dot detection, the following operations will be performed.
  - \* If missing dots are not less than the auto cleaning conditions even after auto cleaning is repeated, "Print head nozzle clogged" warning occurs.
  - \* Auto cleaning conditions during the "Print head nozzle clogged" warning status are available only when a new missing dot error occurs.
- Printer behavior during "Print head nozzle clogged" warning status
  - \* When the number of missing dots is within the permitted amount, printing can be continued. The LCD displays [NOZZLE CLOGGED].
  - \* When the number of missing dots exceeds the permitted amount, a printer error occurs and printing is disabled.

---

**NOTE**

- A very small amount of ink is used in the missing dot detection.
- After detecting a missing dot, cleaning is performed automatically and ink is also used in the cleaning.
- In [Anti-missing Dot Mode], [Anti-missing Read Mode], and [Anti-missing Color Mode] the auto nozzle check is performed at certain intervals, so the auto nozzle check may occur even during printing.

## Software

Various utilities are provided to system administrators and application developers.

For details on how to get the software, see ["Download" on page 189](#).

Purpose	Utilities	Specifications
Deployment	Install Navi	The utility used to install/introduce this printer for a host computer. The user can set up the host computer and this printer using a wizard format. Included in the supplied CD-ROM.
Management	Printer driver	Set the printer, print settings, and check the printer status.
	EpsonNet Config	The user can check and executes the network printer. Applies it simultaneously to a number of printers. Included in the supplied CD-ROM.
Maintenance	USB Replacement Service	Service installed as a resident program on the computer When the TM-C3500 is replaced for service or other reason, this detects the printer connection and automatically changes the output printer of the printer driver. This allows the printer to be replaced without changing settings in the application. (The printer is not replaced if a port is specified for the application output destination. The printer is only replaced if the printer driver is specified.) There is no need to change the USB serial number of the TM-C3500 before replacement. Included in the supplied CD-ROM.
Development	EpsonNet SDK	API for acquiring the TM-C3500's status from the user's application.
	Sample Program	This is the sample programs for using TM-C3400. (VB.NET, C++ is prepared for all programs. C# is prepared for some programs.)
	EPDI Sample Program	API for changing the printing preferences for the printer driver from the user's application.

## Product Specifications

Printing method		Serial ink jet, dot matrix 4 color (KCMY) printing
Paper feed		Forward and reverse friction feed
Autocutter	Cutting method	By separated-blade scissors
	Auto-cut type	Full cut (cuts paper completely)
Graphic resolution		360 dpi × 360 dpi, 720 dpi × 360 dpi
Print speed		103 mm/s (printing width 56 mm, 360 dpi × 360 dpi) 96 mm/s (printing width 72 mm, 360 dpi × 360 dpi) The print speed is different depending on the resolution and the printing width.
Paper (See <a href="#">"Paper Specifications" on page 29</a> for details)	Media type	Plain, Plain label, Matte, Matte label, Synthetic label, Wristband, Glossy label
	Media form	Continuous paper, Black mark continuous paper, Full-page label, Transparent die-cut label, Die-cut label (BM), Die-cut label (Gap)
	Media source	Roll paper, Fanfold paper
Ink cartridge (See <a href="#">"Ink Cartridge" on page 60</a> for details.)		4 color-ink separated exclusive ink cartridge
Interface	USB model	USB 2.0 high speed
	Ethernet model	Ethernet (100 Base-TX/10 Base-T) USB 2.0 high speed
Barcode/ two-dimensional code printing	Barcode	UPC-A, UPC-E, JAN 8 (EAN 8), JAN 13 (EAN 13), Code 39, ITF, Codabar, Code 93, Code 128, GS1-128, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded
	Two-dimensional code printing	PDF417, QR code, Maxi Code, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, DataMatrix, Aztec
Power supply		AC 100 to 240V (Dedicated AC adapter)

Temperatures/ humidity (See <a href="#">"Environmental Conditions" on page 62</a> for details.)	Printing	10 to 35°C, 20 to 80%RH (no condensation)
	Storage	When packed (ink not loaded): -20 to 60°C, 5 to 85%RH (no condensation) -20°C or 60°C: up to 120 hours Ink loaded: -20 to 40°C -20°C: up to 120 hours 0 to 30°C: up to 6 months 40°C: up to a month
Overall dimensions (H x W x D)		310 x 283 x 261 mm (excluding protrusions)
Weight (mass)		Approximately 12 kg {26.45 lb} (Not including the ink cartridge, maintenance box, AC adapter, and roll paper).

## Hardware Requirements

OS	Microsoft Windows 8 (32 bit/ 64 bit) Microsoft Windows 7 SP1 (32 bit/ 64 bit) Microsoft Windows Vista SP2 (32 bit/ 64 bit) Microsoft Windows XP SP3 (32 bit) Microsoft Windows XP SP2 (64 bit) Microsoft Windows Server 2012 Microsoft Windows Server 2008 R2 SP1 Microsoft Windows Server 2008 SP2 (32 bit/ 64 bit) Microsoft Windows Server 2003 R2 SP2 (32 bit/ 64 bit)
Computer	Must support the following computers that run the above operating systems. <ul style="list-style-type: none"> <li>• PC/AT compatible</li> </ul>
CPU	Conforms to the operating environment of the OS
RAM	
HDD	

### CAUTION

The printers on the network is supported up to 64 printers. In that case, if the minimum requirements above are not met, the printer may not be able to come up to its standard.

## Printing Specifications

Printable area	Roll paper	Minimum width 26 mm, Maximum width 104 mm
	Fanfold paper	Minimum width 46 mm, Maximum width 104 mm
Print speed	360 × 360 dpi (horizontal × vertical)	Printing width 56 mm: 103 mm/s, 72 mm: 96 mm/s, 104 mm: 85 mm/s
	720 × 360 dpi (horizontal × vertical)	Printing width 56 mm: 52 mm/s, 72 mm: 48 mm/s, 104 mm: 42 mm/s

dpi : dots per 25.4 mm (dots per inch)



## Paper Specifications

The following is the type and the size of paper specified for this printer.

### CAUTION

- When using paper other than the specified, users must evaluate the recognition rate in advance to avoid deterioration of the paper feed accuracy/barcode recognition rate/print quality and frequent occurrence of paper jams.
- Depending on the temperature and humidity, the synthetic labels and paper backing have different ratios of expansion and contraction, and this causes the paper to curl. If the paper curls, the paper may be rubbed by the print head and become contaminated, or the paper may jam.
- Do not use the paper which is extended by connecting with tape and others. The paper may be detected incorrectly by the connected line, and rubbed by the print head and become contaminated, or the paper may jam.

Paper type	Category	Form	Width
Continuous paper	Plain Matte	Roll paper	30 to 108 mm {1.18 to 4.25"} (Paper width)
Black mark continuous paper	Plain Matte	Roll paper	30 to 108 mm {1.18 to 4.25"} (Paper width)
Black mark continuous paper	Plain Matte	Fanfold paper	50 to 108 mm {1.97 to 4.25"} (Paper width)
Full-page label Transparent full-page label	Plain label Matte label Synthetic label Glossy label	Roll paper	25.4 to 108 mm {1 to 4.25"} (Label width)
Die-cut label (Gap) Transparent die-cut label	Plain label Matte label Synthetic label Glossy label	Roll paper	25.4 to 108 mm {1 to 4.25"} (Label width)
Die-cut label (BM)	Plain label Matte label Glossy label	Roll paper	25.4 to 108 mm {1 to 4.25"} (Label width)

Paper type	Category	Form	Width
Die-cut label (BM)	Plain label Matte label	Fanfold paper	46 to 108 mm {1.81 to 4.25"} (Label width)
Wrist Band	Wristband	Roll paper	30 mm {1.18"} (Paper width)

## Continuous paper

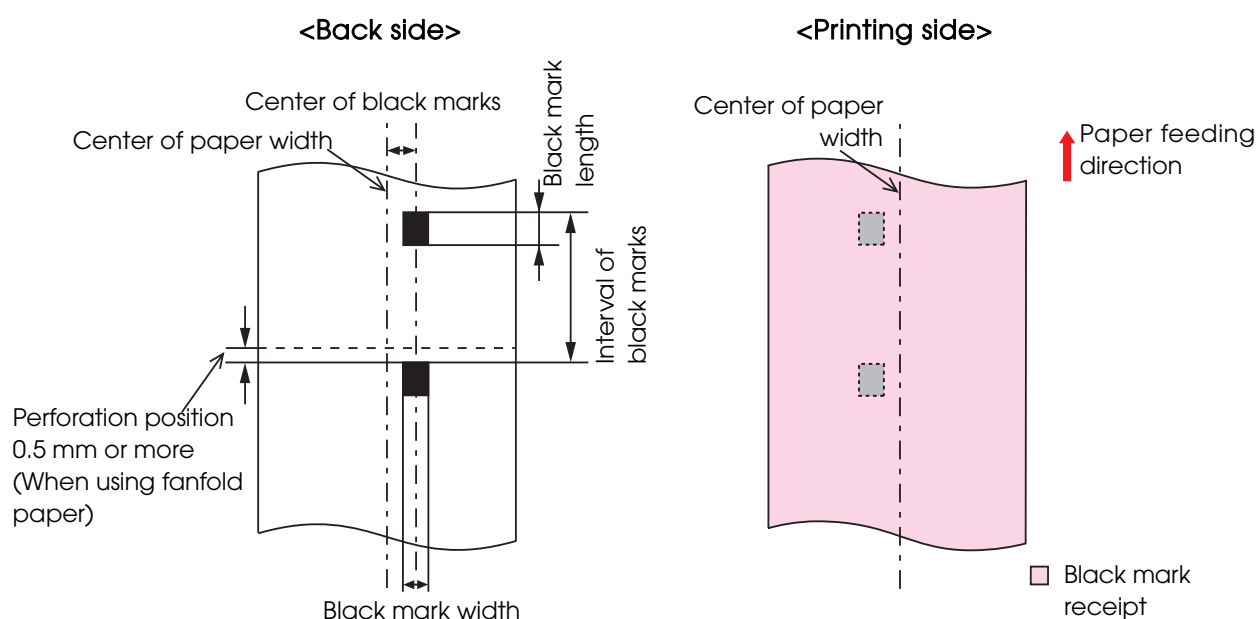
This is continuous paper.

Media type	Plain / Matte
Media source	Roll paper
Paper width	30 to 108 mm {1.18 to 4.25"}}
Paper thickness	0.084 to 0.124 mm {0.003 to 0.004"}}
Paper core	External diameter: 44.1 mm {1.74"} or more
External diameter	Maximum 101.6 mm {4"}}
Winding direction	Printing face must be facing outside.

**CAUTION**

Do not use the paper with a hole or cutout.

## Black mark continuous paper



Media type	Plain / Matte
Media source	Roll paper
Paper width	30 to 108 mm {1.18 to 4.25"}
Black mark width	13 mm {0.51"} or more
Black mark length	5 mm {0.19"} or more
Center of a black mark	8.5 mm $\pm$ 1 mm {0.33 $\pm$ 0.039"}
Gaps between black marks	15 to 1117.6 mm {0.59 to 44"}
Paper thickness	0.084 to 0.124 mm {0.003 to 0.004"}
Paper core	External diameter: 44.1 mm {1.74"} or more
External diameter	Maximum 101.6 mm {4"}
Winding direction	Printing face must be facing outside.

### CAUTION

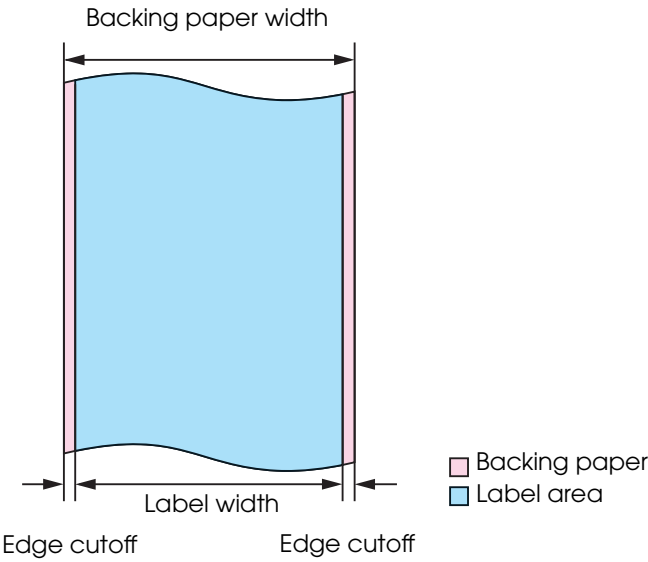
Do not use the paper with a hole or cutout.

Media type	Plain / Matte
Media source	Fanfold paper
Paper width	50 to 108 mm {1.97 to 4.25"}
Black mark width	13 mm {0.51"} or more
Black mark length	5 mm {0.19"} or more
Center of a black mark	8.5 mm $\pm$ 1 mm {0.33 $\pm$ 0.039"}
Gaps between black marks	15 to 304.8 mm {0.59 to 12.0"}
Paper thickness	0.124 to 0.128 mm {0.0047 to 0.005"}
Gaps of perforated line	203.2 to 304.8 mm {8 to 12"}
Form of perforated line	Plain media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut Fine media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut PET film : 0.6 mm uncut, 8.4 mm cut
Number of folds	500 or less

### CAUTION

- Do not use the paper with a hole or cutout.
- Autocutting on the perforated lines may generate minute paper dust, causing machine problems. Also, autocutting ahead of the perforated line may cause problems when feeding paper. Therefore, autocutting must be performed 0.5 mm to 1 mm {0.02 to 0.039"} behind the perforated line.
- Black marks must position away at least 0.5 mm {0.02"} from the perforated line.
- The perforated lines on both sides of the paper edge must be left uncut.
- Make sure to keep the same position of the black marks to the perforated lines (position that can be detected by black mark sensor) when inserting the paper from either side in order to use the paper inserting from reverse direction.

## Full-page label

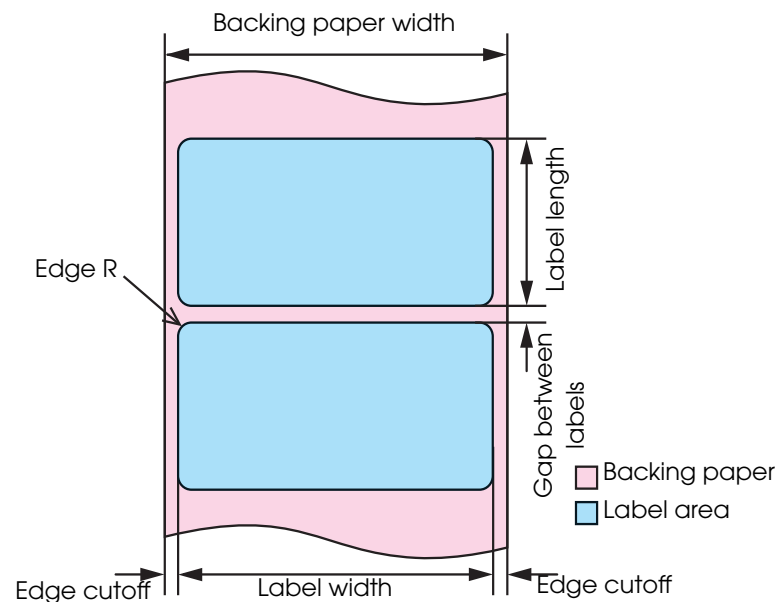


Media type	Plain label / Matte label / Synthetic label / Glossy label
Media source	Roll paper
Backing paper width	30 mm to 112 mm {1.18 to 4.41"}
Label width	25.4 to 108 mm {1 to 4.25"}
Right and left outer edges	2 mm ± 0.5 mm {0.079 ± 0.02"}
Paper thickness	Plain label / Matte label / Synthetic label: 0.129 to 0.195 mm {0.005 to 0.008"} Glossy label: 0.184 mm {0.007"}
Paper core	Plan label / Matte label / Synthetic label: External diameter: 44.1 mm {1.74"} or more Glossy label: External diameter: 56.8 mm {2.24"} or more
External diameter	Maximum 101.6 mm {4"}
Winding direction	Printing face must be facing outside.

CAUTION

- Do not use the paper with a hole or cutout.
- To prevent glue from sticking to the roll paper supply unit, use label paper whose outer edges are removed only on the right and left.

## Die-cut label(Gap)



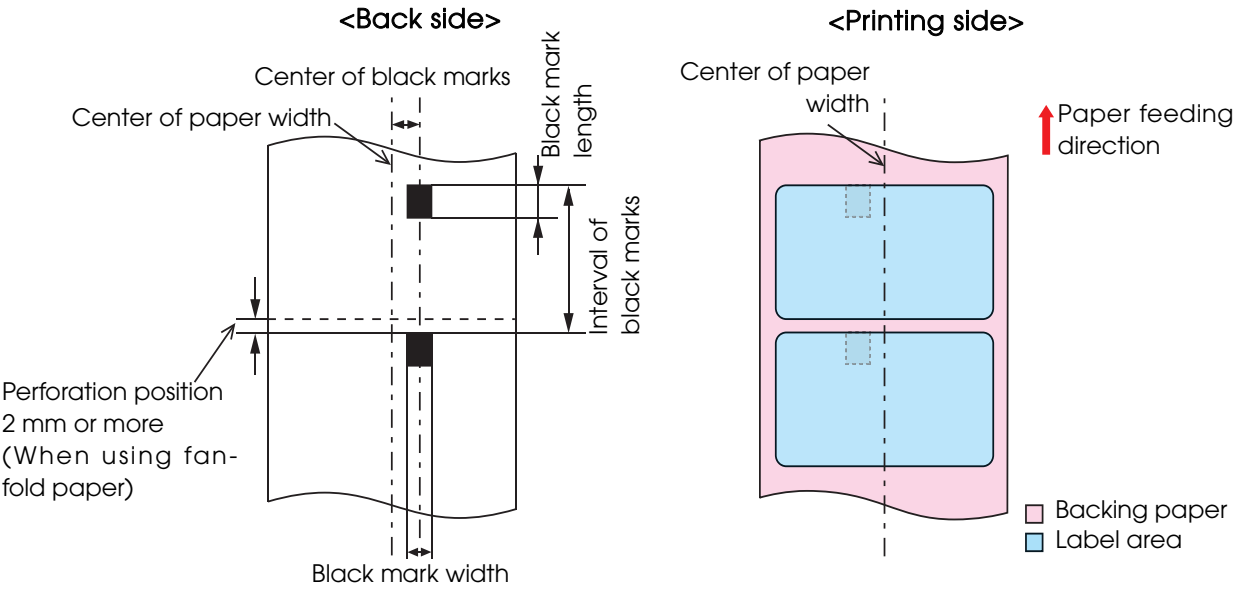
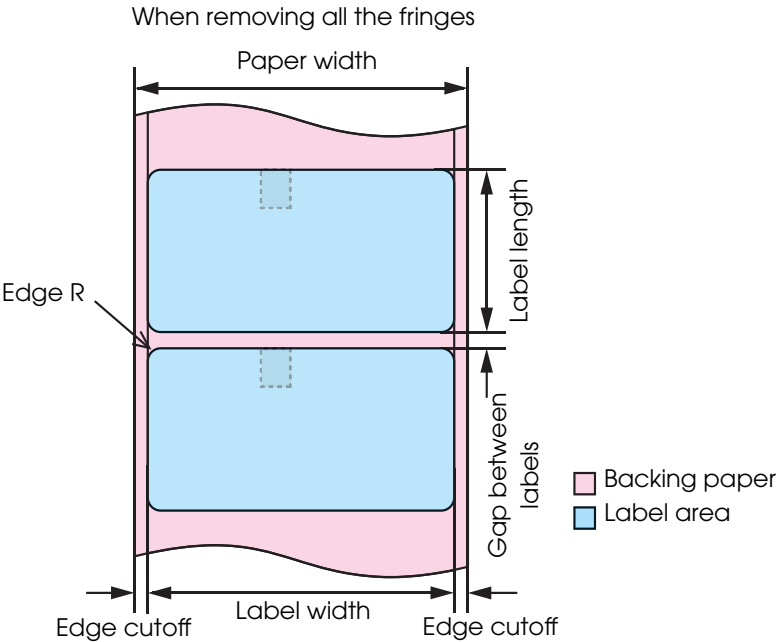
Media type	Plain label / Matte label / Synthetic label / Glossy label
Media source	Roll paper
Backing paper width	30 to 112 mm {1.18 to 4.41"}
Label width	25.4 to 108 mm {1 to 4.25"}
Label length	15 to 1,117.6 mm {0.59 to 44"}
Gap between labels	3 to 6 mm {0.12 to 0.24"}
Left and right outer edges	2 mm $\pm$ 0.5 mm {0.079 $\pm$ 0.02"}
Label edge R	1.5 mm {0.059"} or less
Paper thickness	Plain label / Matte label / Synthetic label: 0.129 to 0.195 mm {0.005 to 0.008"} Glossy label: 0.184mm {0.007"} 
Paper core	Plan label / Synthetic label: External diameter: 44.1 mm {1.74"} or more Matte label / Glossy label: External diameter: 56.8 mm {2.24"} or more 
External diameter	Maximum 101.6 mm {4"}
Winding direction	Printing face must be facing outside.

Form of perforated line	Plain media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut Fine media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut PET film : 0.6 mm uncut, 8.4 mm cut
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**CAUTION**

- Do not use the paper with a hole or cutout.
- If the backing is synthetic media or film, it will be difficult to cut by hand even if there is a perforation, so do not use the perforation.

Die-cut label (BM)



Media type	Plain label / Matte label / Glossy label
Media source	Roll paper



Backing paper width	30 to 112 mm {1.18 to 4.41"}
Label width	25.4 to 108 mm {1 to 4.25"}
Label length	15 to 1,117.6 mm {0.59 to 44"}
Gap between labels	3 to 6 mm {0.12 to 0.24"}
Left and right outer edges	2 mm $\pm$ 0.5 mm {0.079 $\pm$ 0.02"}
Label edge R	1.5 mm {0.059"} or less
Width of a black mark	13 mm {0.51"} or more
Length of a black mark	5 mm {0.19"} or more
Center of a black mark	8.5 mm $\pm$ 1 mm {0.33 $\pm$ 0.039"}
Gaps between black marks	18 to 1,123.6 mm {0.71 to 44.24"}
Paper thickness	Plain label / Matte label: 0.129 to 0.143 mm {0.005 to 0.006"} Glossy label: 0.184 mm {0.007"}
Paper core	Plain label: outer diameter 44.1 mm {1.74"} or more Matte label / Glossy label: outer diameter 56.8 mm {2.24"} or more
External diameter	Maximum 101.6 mm {4"}
Winding direction	Printing face must be facing outside.
Form of perforated line	Plain media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut Fine media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut PET film : 0.6 mm uncut, 8.4 mm cut

**CAUTION**

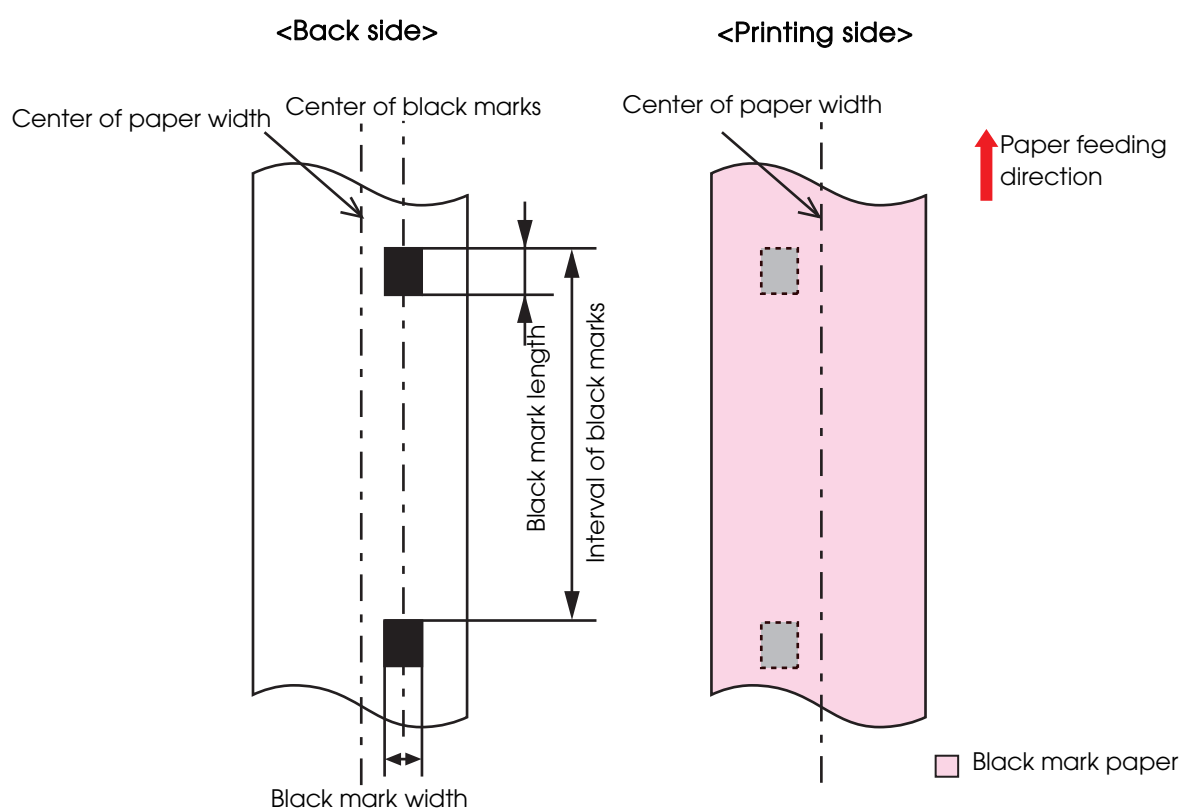
- Do not use the paper with a hole or cutout.
- For the black mark position of the die-cut label paper, match the label edge to the black mark edge.

Media type	Plain label / Matte label
Media source	Fanfold paper
Backing paper width	50 to 112 mm {1.97 to 4.41"}
Label width	46 to 108 mm {1.81 to 4.25"}
Label length	15 to 301.8 mm {0.59 to 11.88"}
Gap between labels	3 to 6 mm {0.12 to 0.24"}
Left and right outer edges	2 mm $\pm$ 0.5 mm {0.079 $\pm$ 0.02"}
Label edge R	1.5 mm {0.059"} or less
Width of a black mark	13 mm {0.51"} or more
Length of a black mark	5 mm {0.19"} or more
Center of a black mark	8.5 mm $\pm$ 1 mm {0.33 $\pm$ 0.039"}
Gaps between black marks	18 to 304.8 mm {0.71 to 12.0"}
Paper thickness	0.161 to 0.164 mm {0.0063 to 0.0065"}
Perforated line pitch	203.2 to 304.8 mm {8 to 12"}
Form of perforated line	Plain media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut Fine media : 1 mm {0.039"} uncut, 5 mm {0.2"} cut PET film : 0.6 mm uncut, 8.4 mm cut
Number of folds	500 or less

### CAUTION

- Do not use the paper with a hole or cutout.
- Autocutting on the perforated lines may generate minute paper dust, causing machine problems. Also, autocutting ahead of the perforated line may cause problems when feeding paper. Therefore, autocutting must be performed 0.5 mm to 1 mm {0.02 to 0.039"} behind the perforated line.
- When using fanfold paper, the black marks must be at least 2 mm {0.079"} from the perforated lines.
- As for the black mark position on the die-cut label paper, match the label edge and the black mark edge.
- The perforated lines on both sides of the paper edge must be left uncut.

## Wrist Band



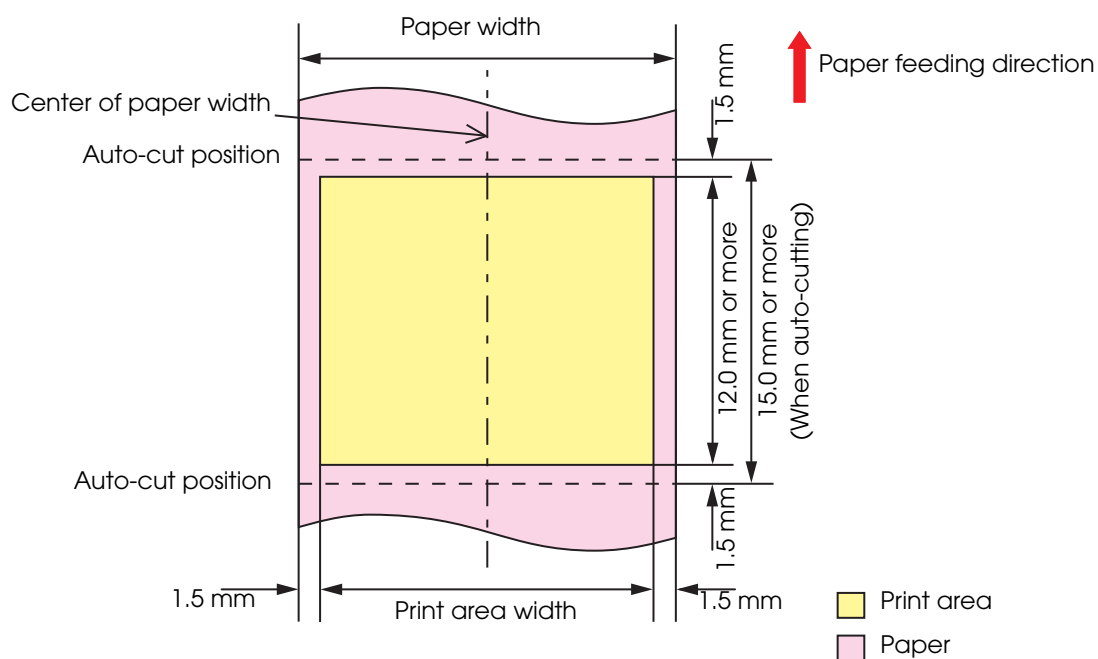
Media type	WB-S/M/L series (Synthetic media)
Media source	Roll paper
Paper width	WB-S/M/L series: 36 mm {1.42"}
Black mark width	13 mm {0.51"} or wider
Black mark length	5 mm {0.19"} or more
Center of a black mark	8.5 mm $\pm$ 1 mm {0.33 $\pm$ 0.039"}
Gaps between black marks	WB-S: 184.1 mm {7.25"} WB-M: 292.1 mm {11.5"} WB-L: 292.1 mm {11.5"} 
Paper thickness	WB-S/M/L series: 0.225 mm {0.0088"}
Paper core	External diameter 56.8 mm or more
External diameter	Maximum 101.6 mm {4"}
Winding direction	Printing face must be facing outside.
Hole, notch	Diameter: 2.5 mm or less

## Print Area and Cutting Position

### Continuous paper / Roll paper

When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)

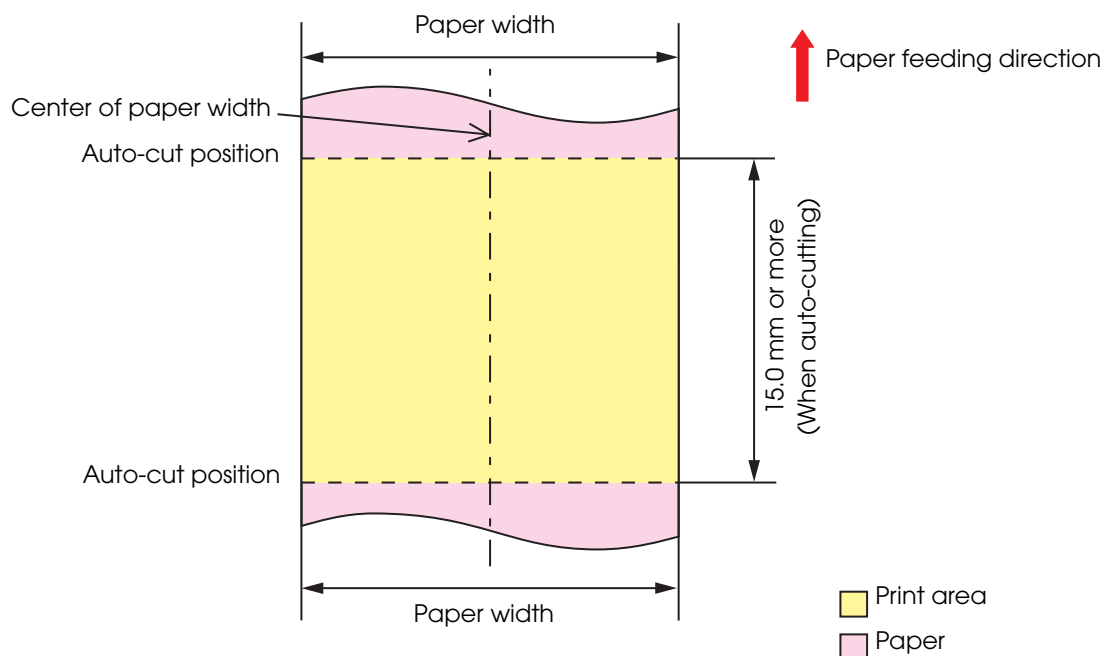


#### CAUTION

When the roll paper option is set to "Banner Mode," a top margin is set only on the first page of the print job, and not on the rest. A bottom margin is set on the last page of the print job.

## When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



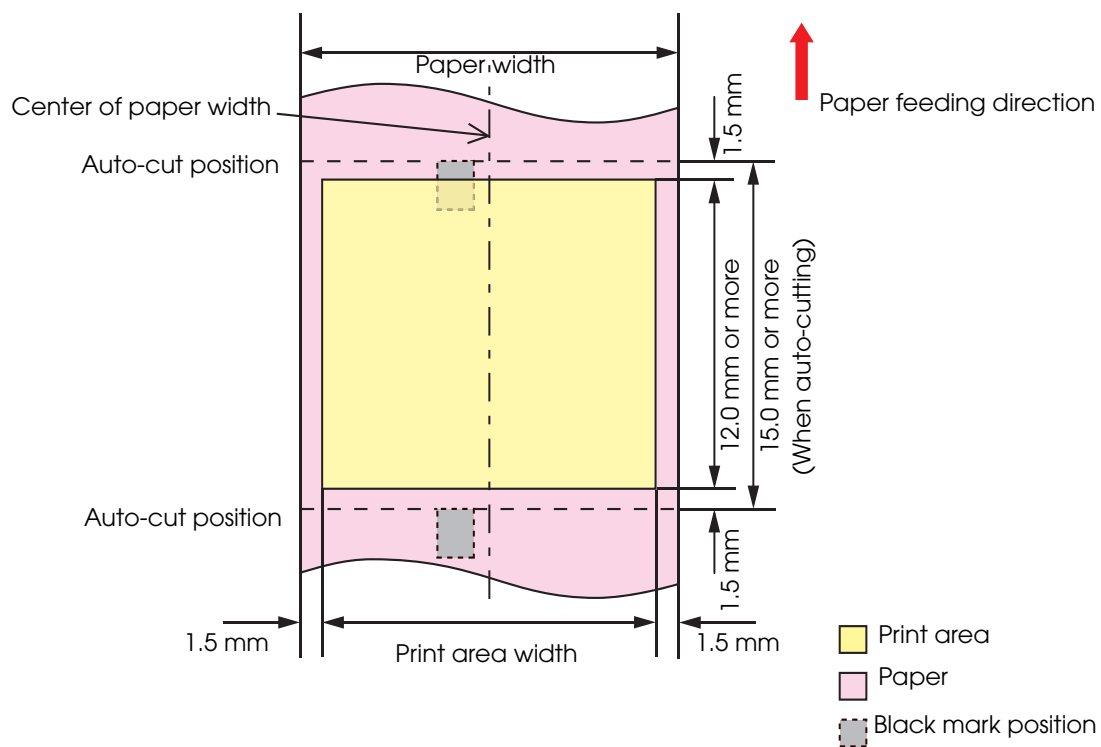
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Black mark continuous paper / Roll paper

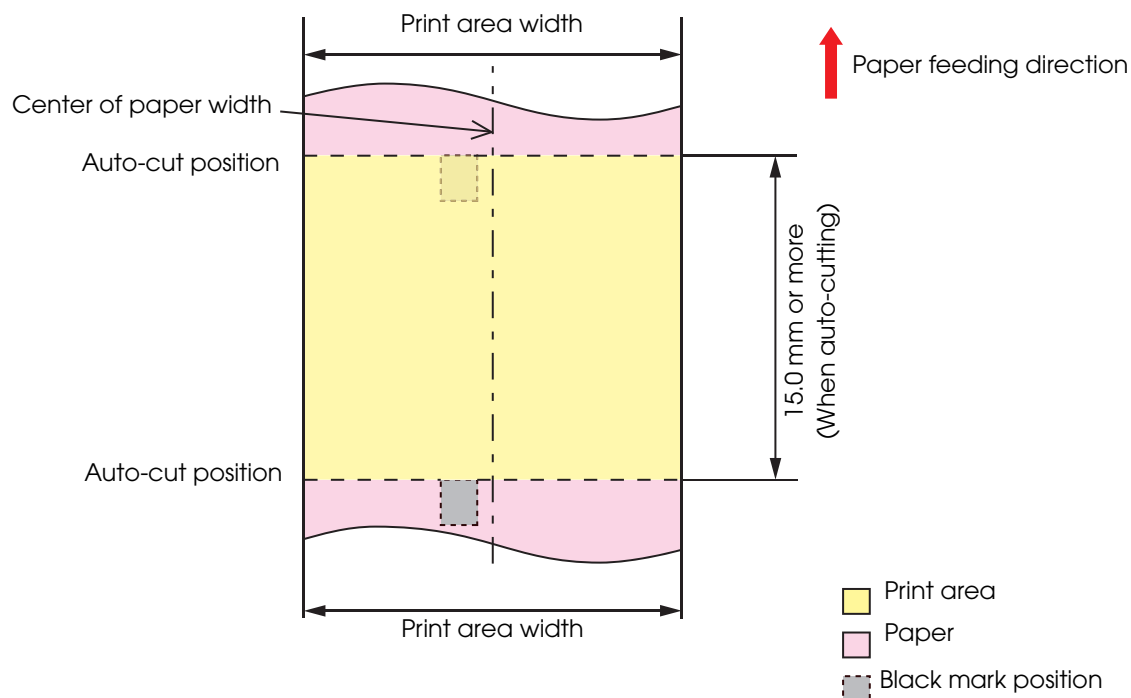
When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)



When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



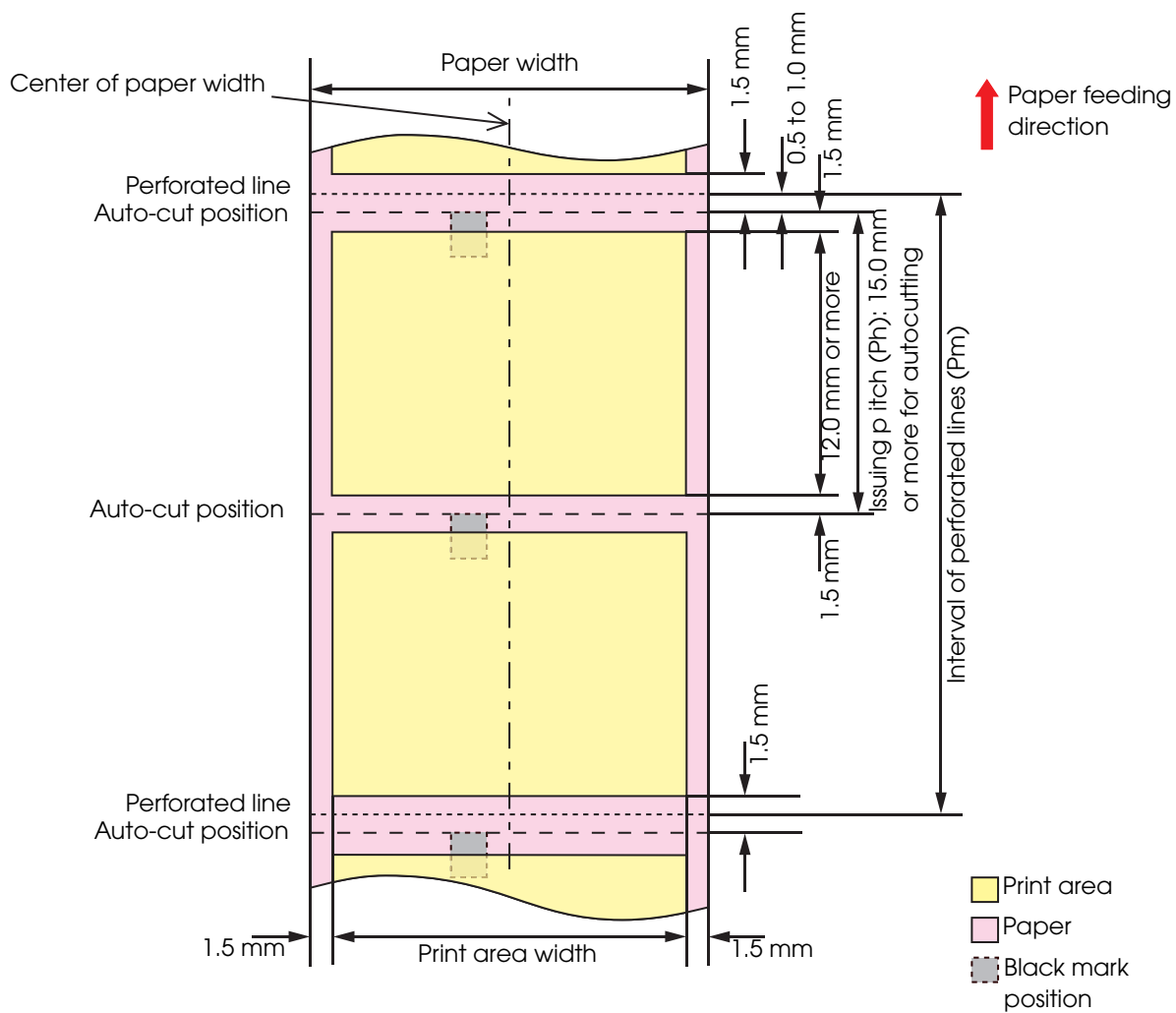
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Black mark continuous paper/ Fanfold paper

When "Extend Printable Area" is disabled

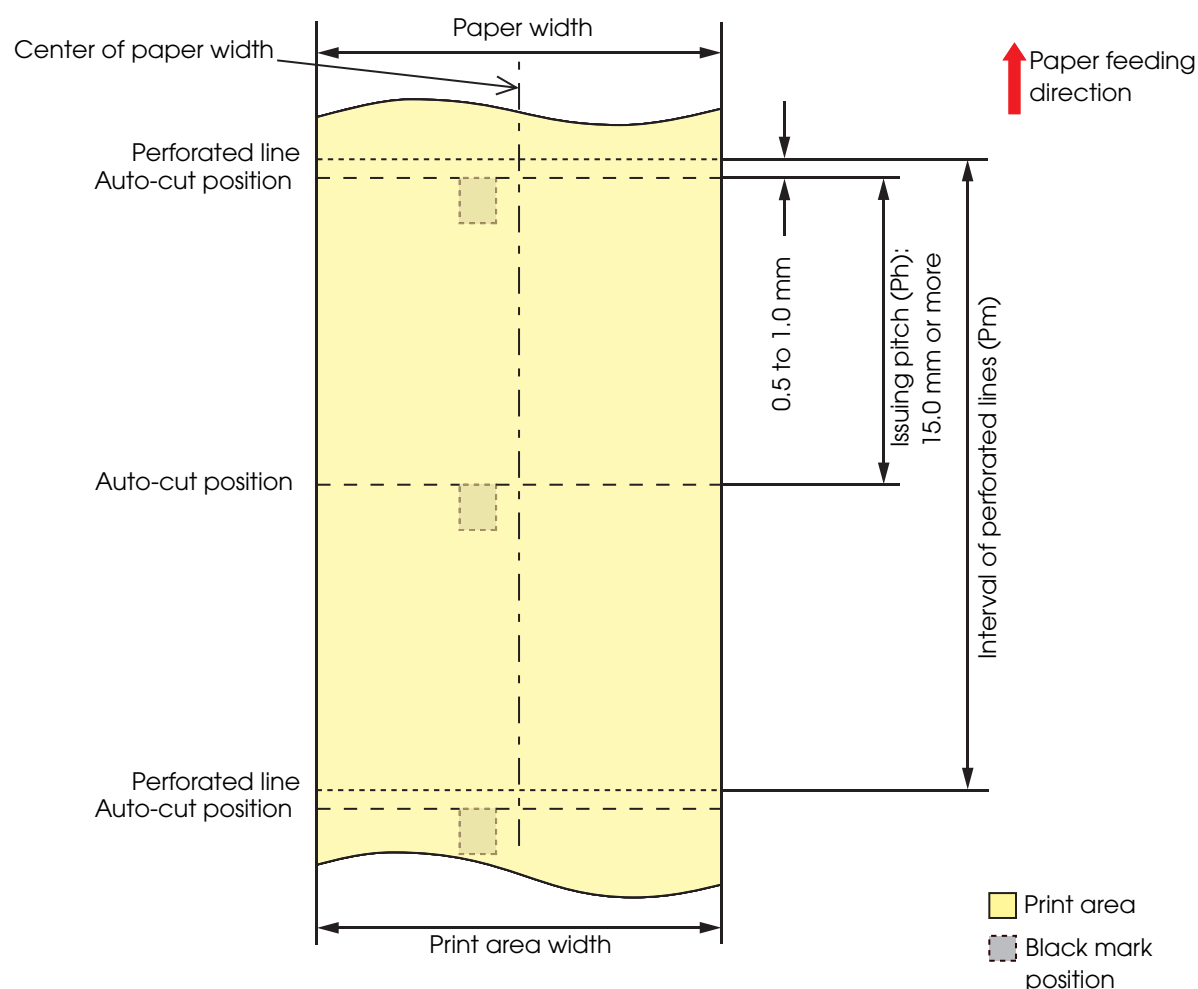
Top, bottom, left, right margins: 1.5 mm (Typical value)





When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



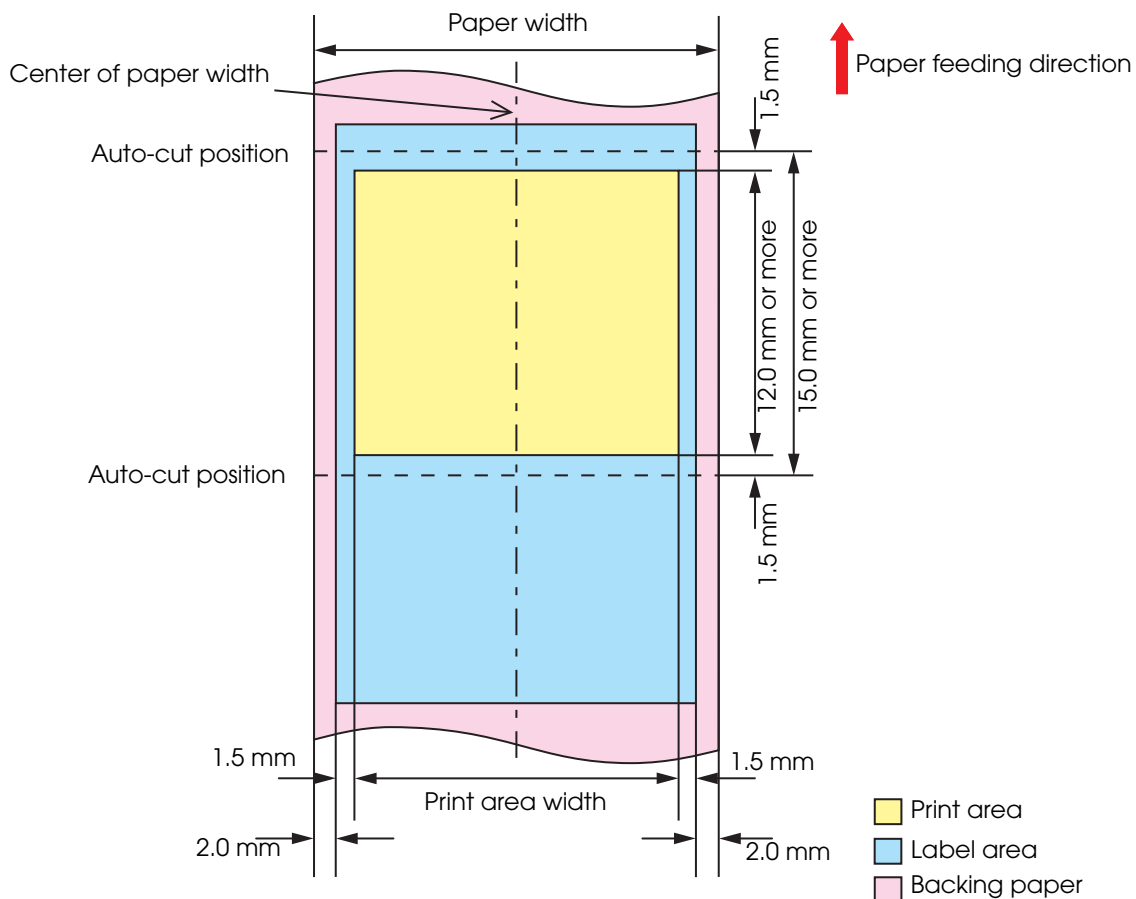
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Full-page label / Roll paper

When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)

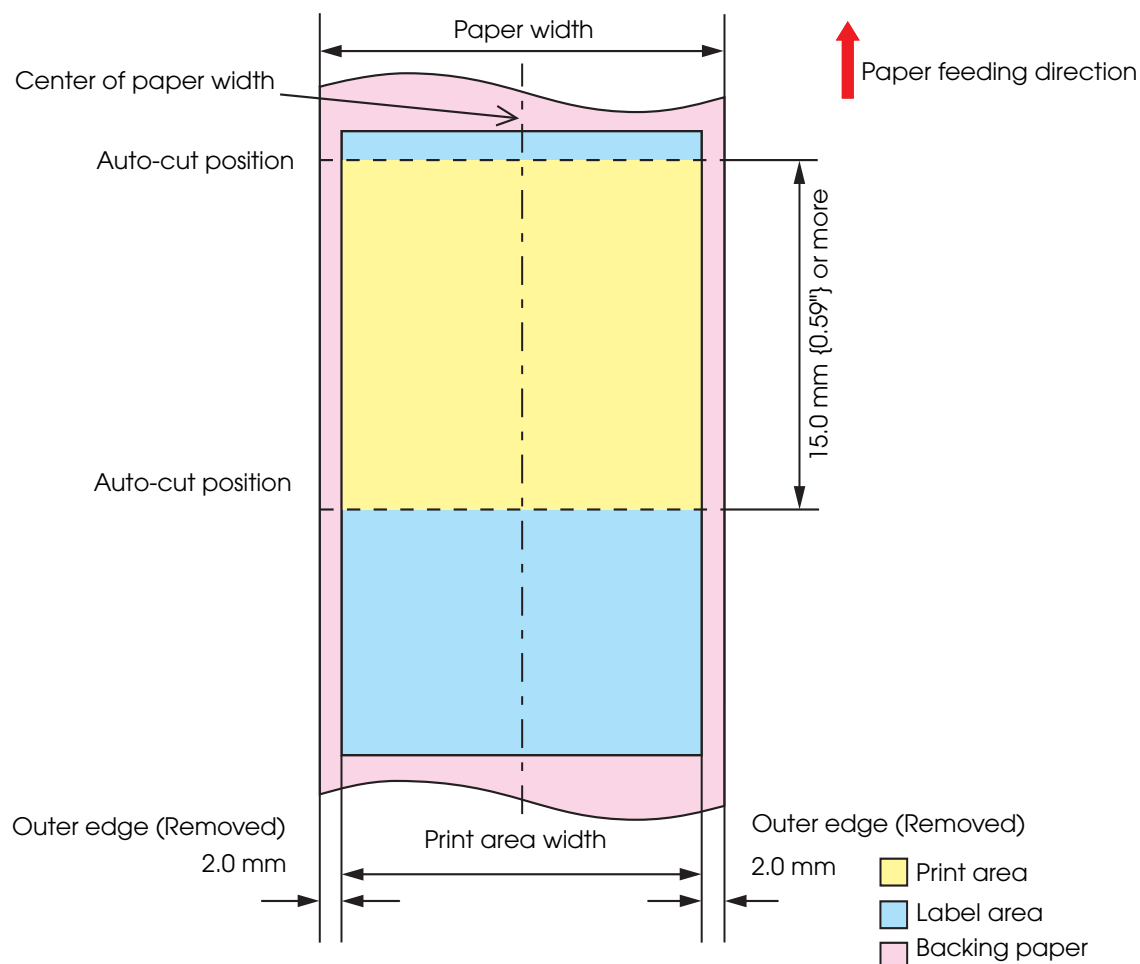


### CAUTION

When the roll paper option is set to "Banner Mode," a top margin is set only on the first page of the print job, and not on the rest. A bottom margin is set on the last page of the print job.

When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



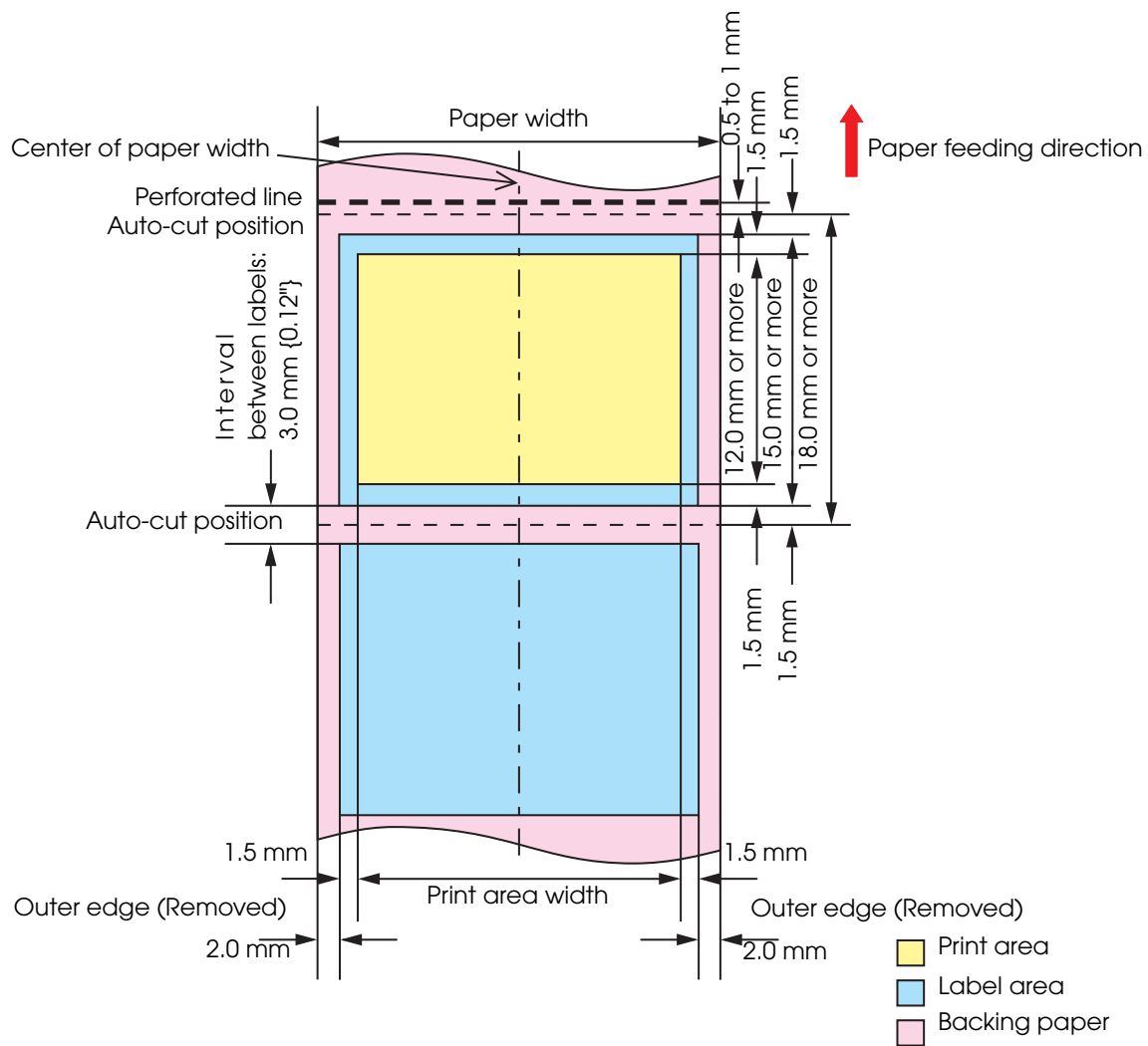
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Die-cut label(Gap) / Roll paper

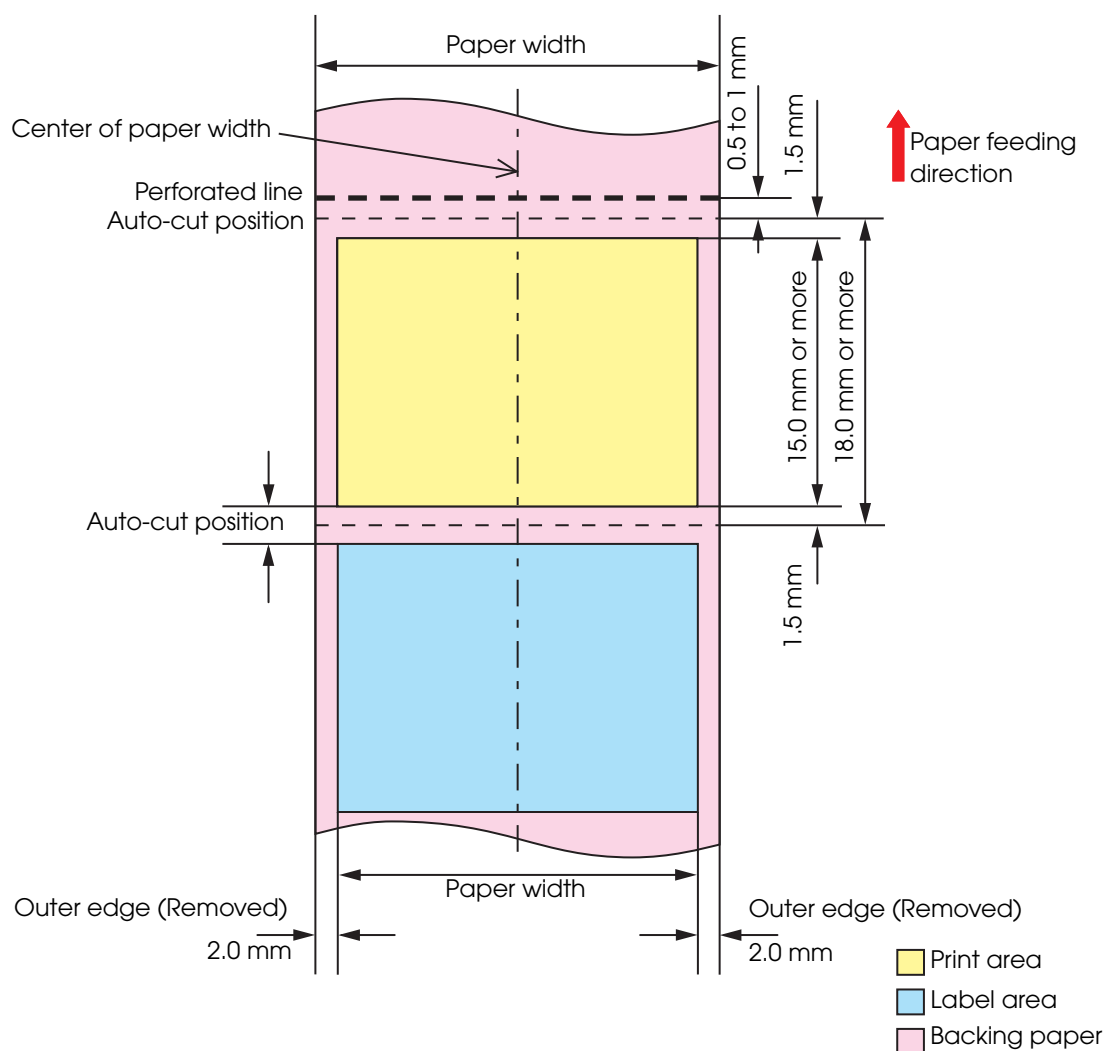
When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)



When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



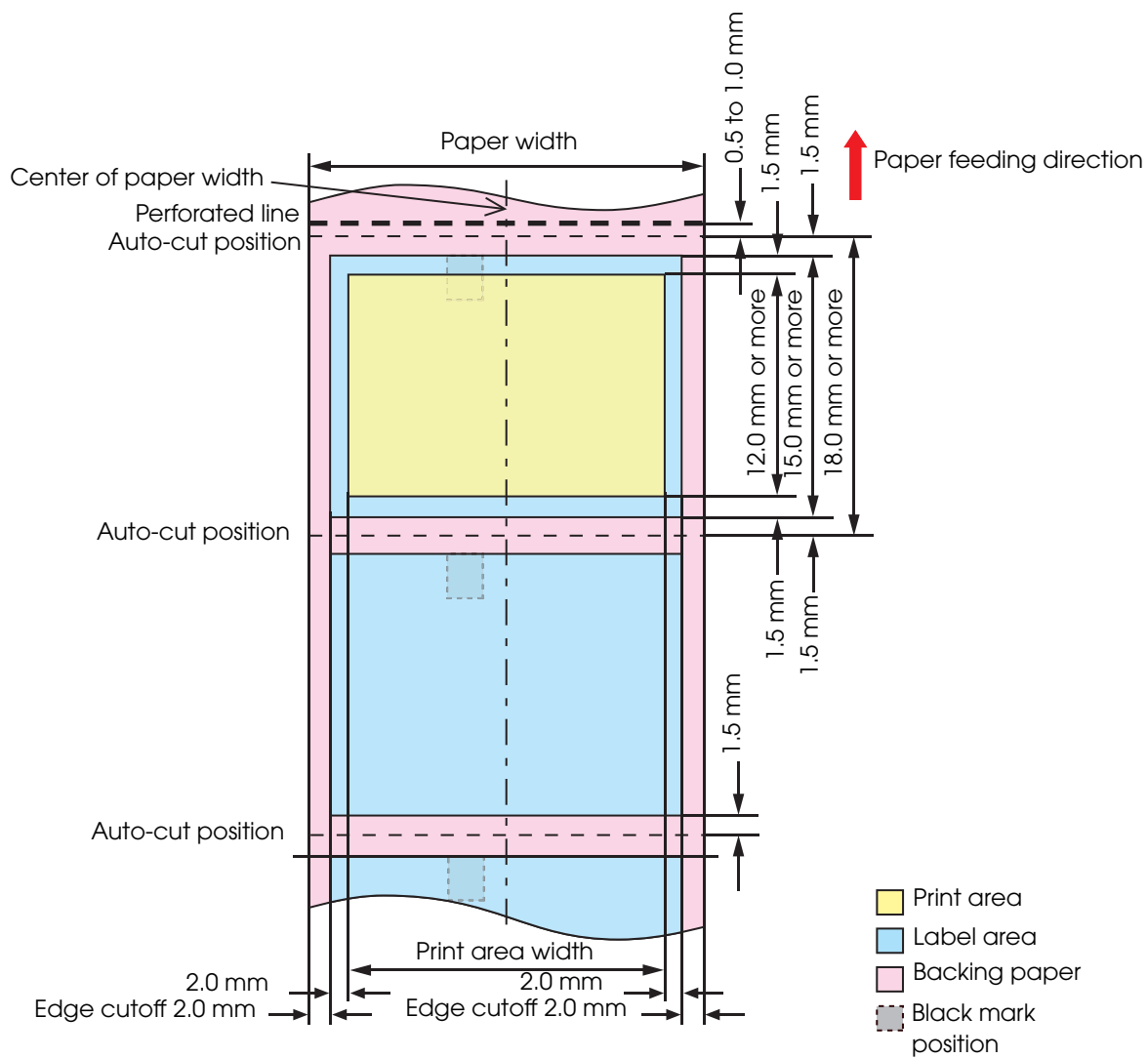
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Die-cut label(BM) / Roll paper

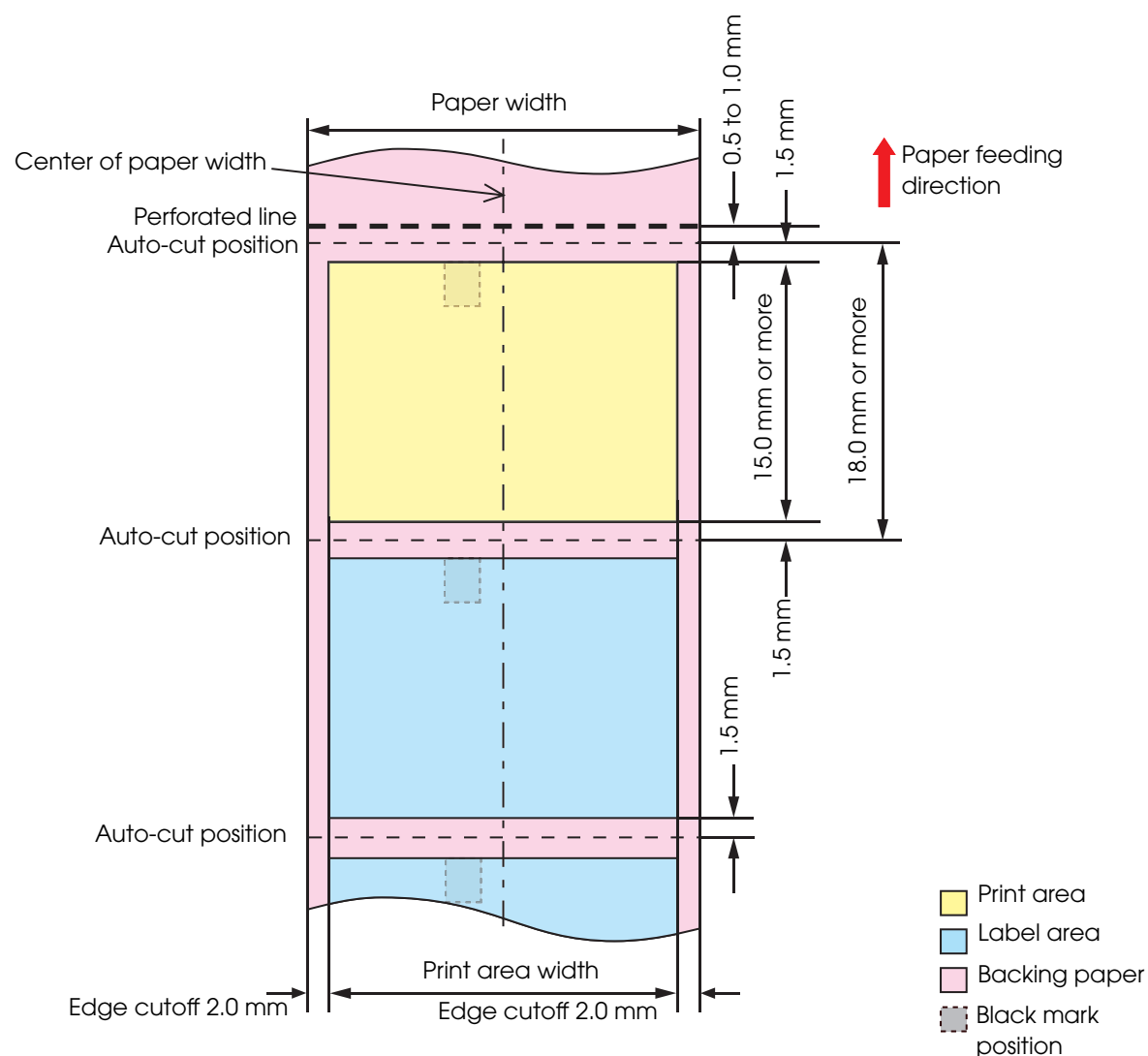
When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)



When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



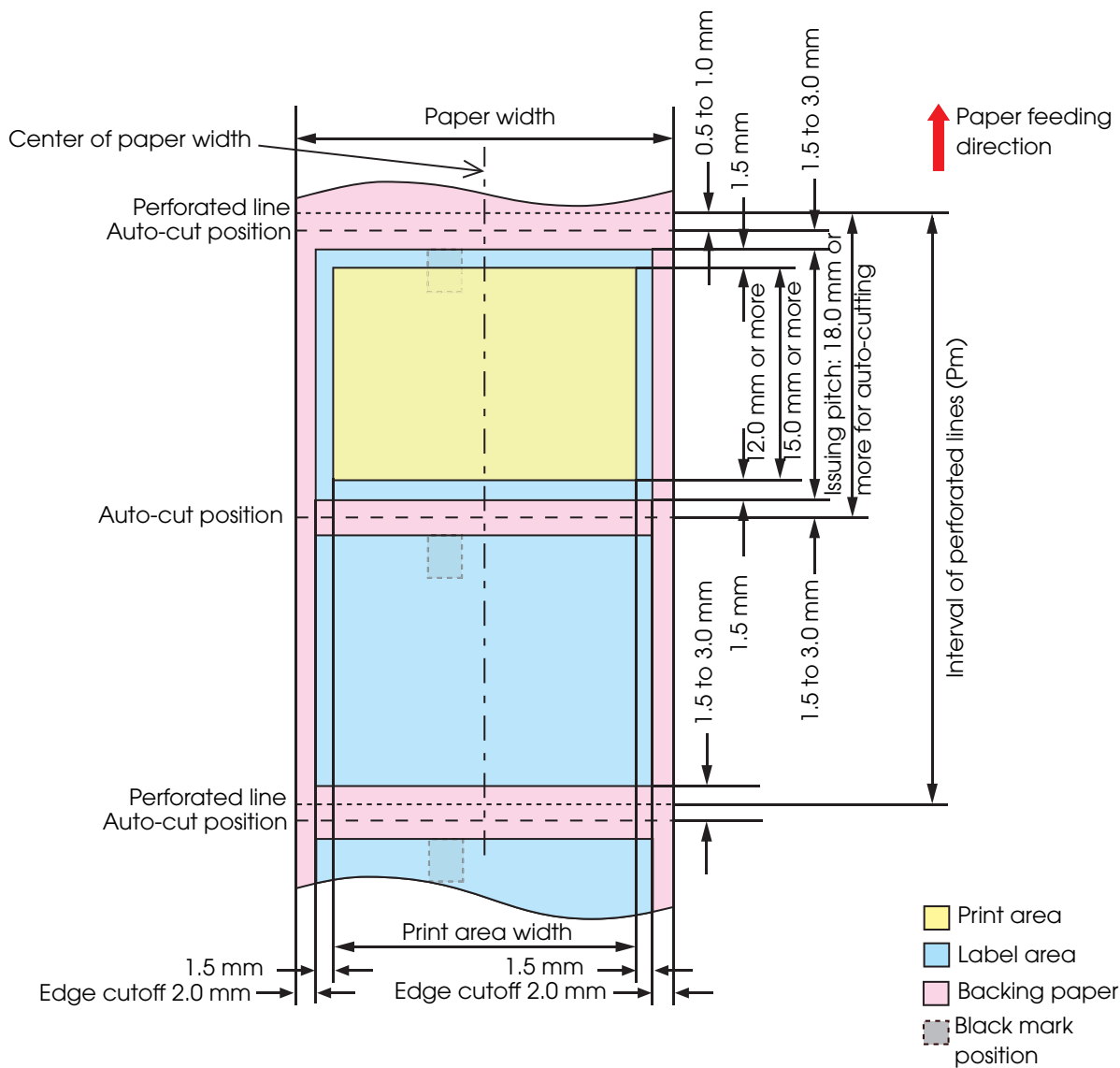
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Die-cut label(BM) / Fanfold paper

When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)



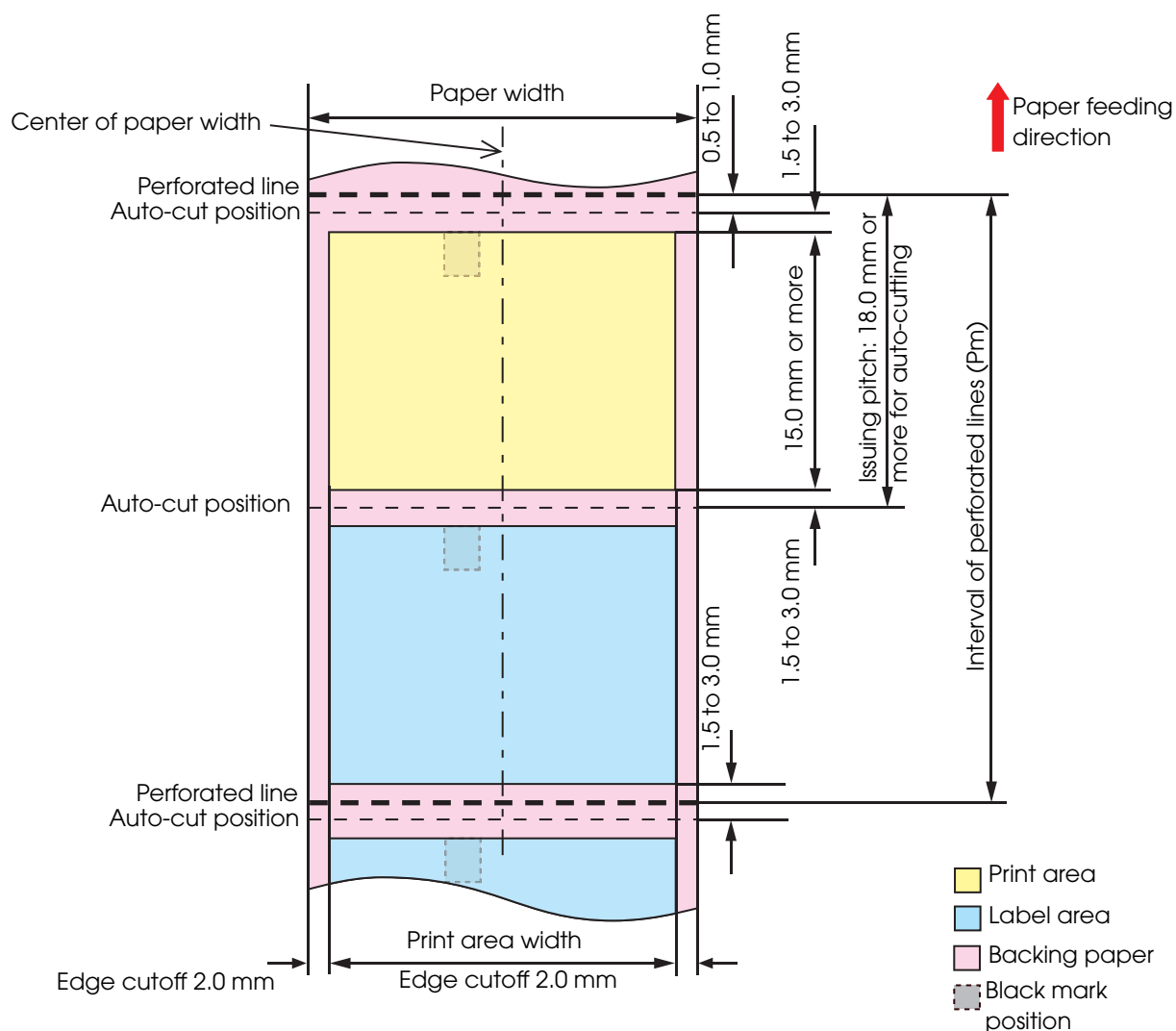
### CAUTION

- Make sure to adjust perforated lines to an integral multiple of issuing pitch.
- The perforated line and print area overlap each other to destabilize printing or perforated line and the auto-cut position are misaligned to shorten the life of the autocutter if paper without black marks is used. Use paper with black marks on the back of the paper to adjust the paper position.



When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



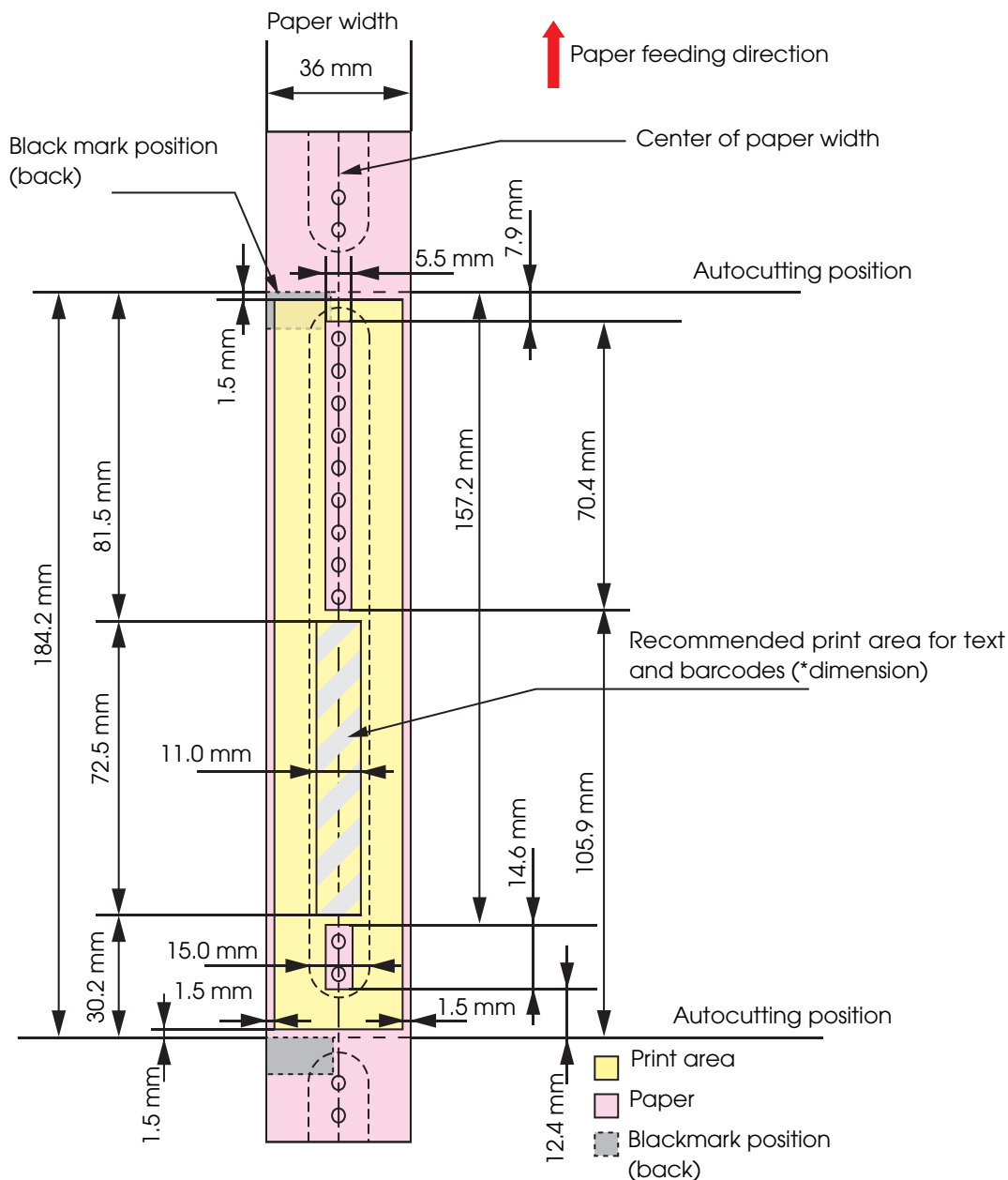
### CAUTION

- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.
- Even if "Extend Printable Area" is enabled, the maximum value for the print area width is 104 mm {4.09"}.

## Wristband/roll paper (WB-S series)

When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)

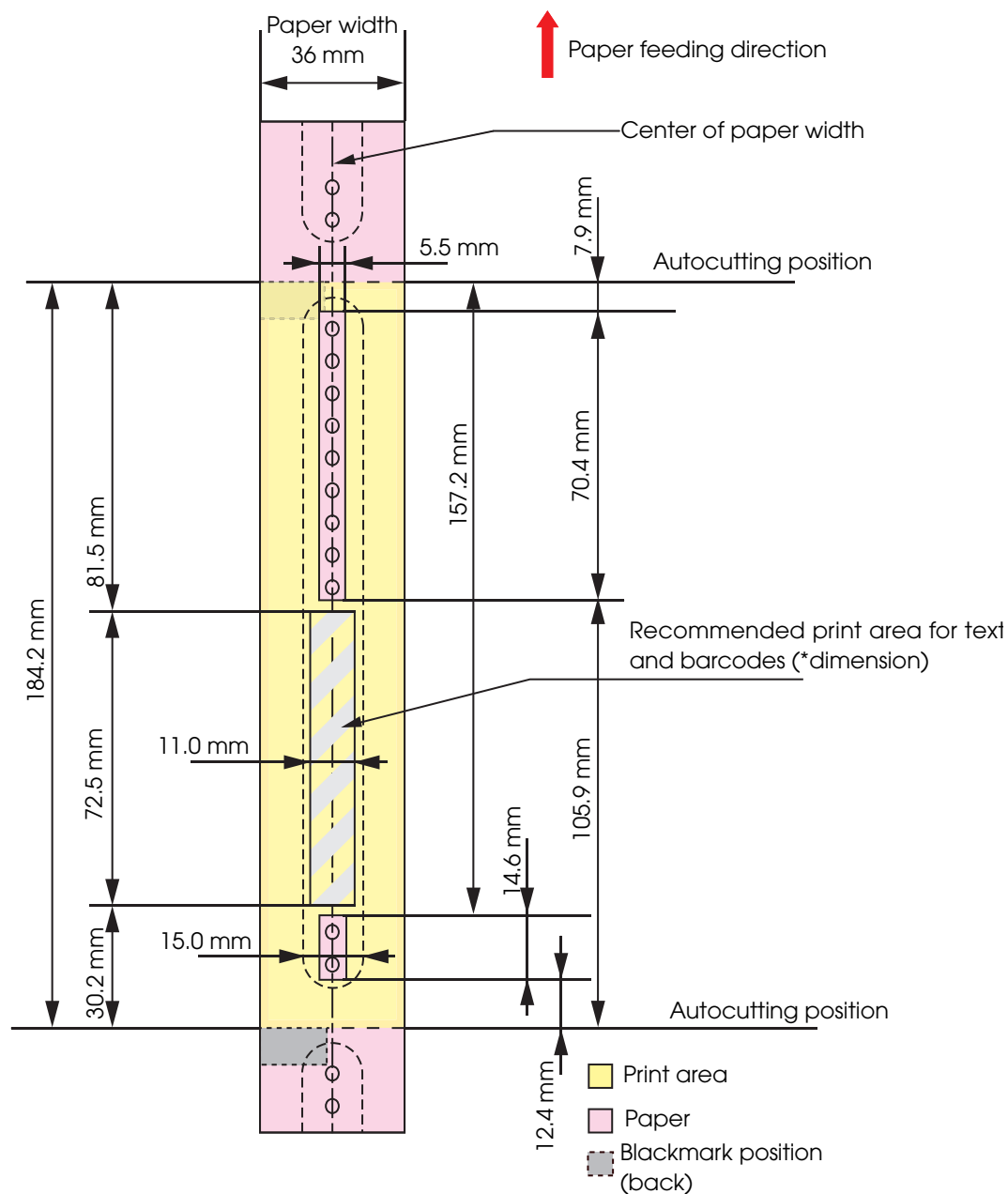


### CAUTION

- Do not print inside or within 2 mm {0.08"} around the snap button mounting hole to prevent damage to the mechanical functions.
- If using the WB-S/M/L series, use the attachment (OT-WA34).

## When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)

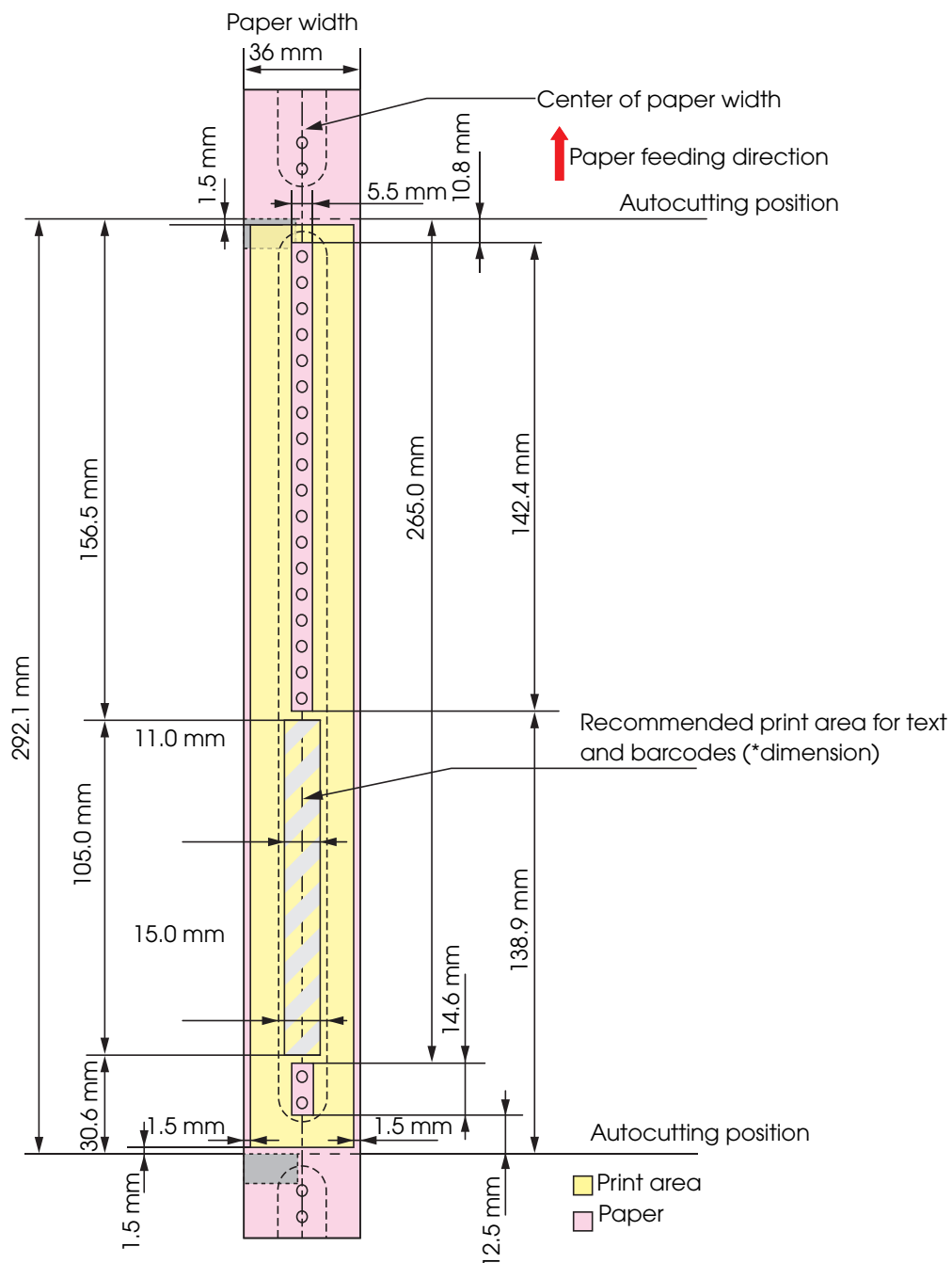
**CAUTION**

- Do not print inside or within 2 mm {0.08"} around the snap button mounting hole to prevent damage to the mechanical functions.
- If using the WB-S/M/L series, use the attachment (OT-WA34).
- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.

## Wristband/roll paper (WB-M series)

When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)

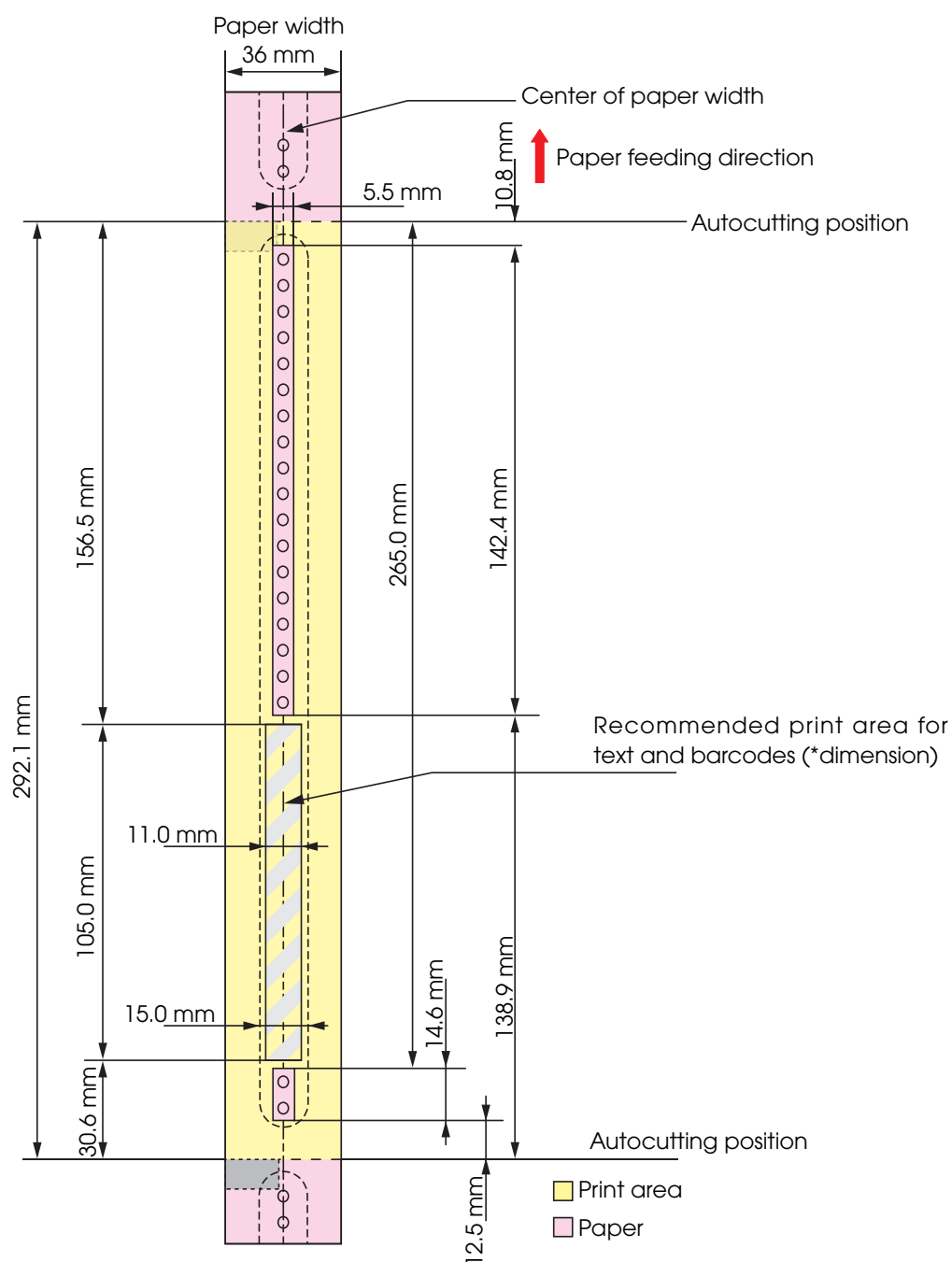


### CAUTION

- Do not print inside or within 2 mm {0.08"} around the snap button mounting hole to prevent damage to the mechanical functions.
- If using the WB-S/M/L series, use the attachment (OT-WA34).

## When "Extend Printable Area" is enabled

Top, bottom, left, right margins: 0 mm (Typical value)

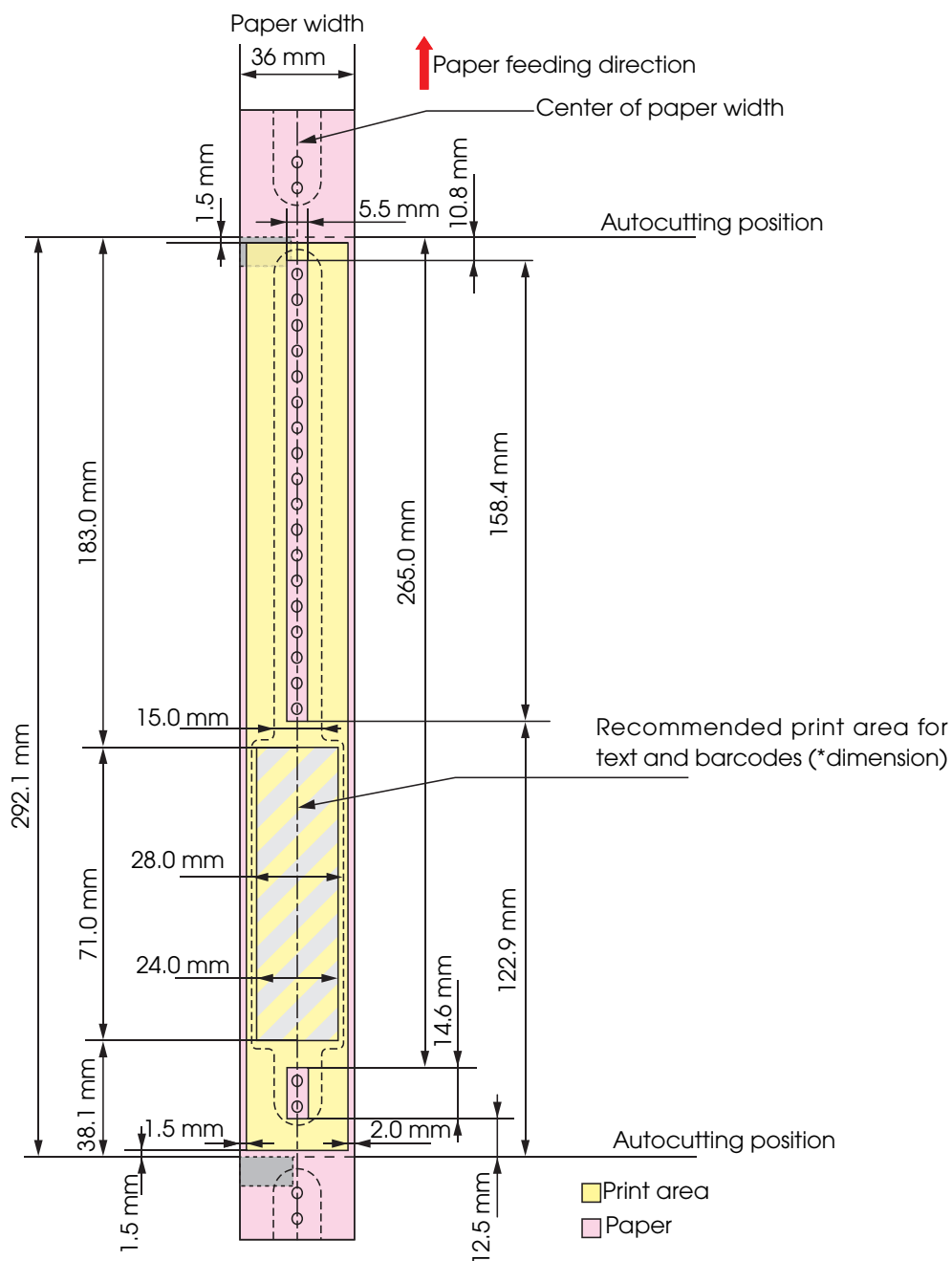
**CAUTION**

- Do not print inside or within 2 mm {0.08"} around the snap button mounting hole to prevent damage to the mechanical functions.
- If using the WB-S/M/L series, use the attachment (OT-WA34).
- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.

## Wristband/roll paper (WB-L series)

When "Extend Printable Area" is disabled

Top, bottom, left, right margins: 1.5 mm (Typical value)

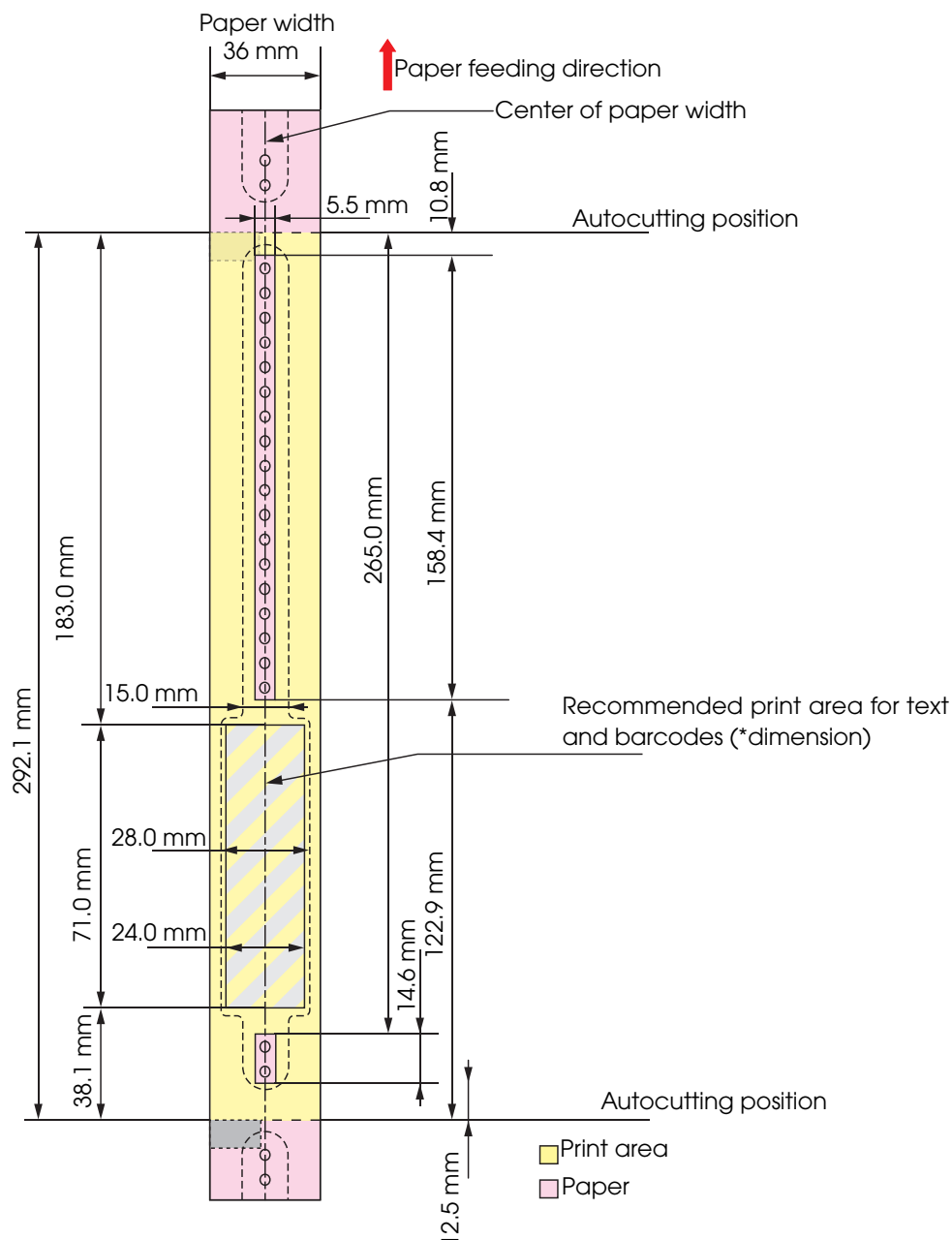


### CAUTION

- Do not print inside or within 2 mm {0.08"} around the snap button mounting hole to prevent damage to the mechanical functions.
- If using the WB-S/M/L series, use the attachment (OT-WA34).

### When “Extend Printable Area” is enabled

Top, bottom, left, right margins: 0 mm (Typical value)



**CAUTION**

- Do not print inside or within 2 mm {0.08"} around the snap button mounting hole to prevent damage to the mechanical functions.
- If using the WB-S/M/L series, use the attachment (OT-WA34).
- If you enabled "Extend Printable Area", printing is done with settings for no margins, but the printing might protrude beyond the paper/label, depending on the actual print position and the set position for the paper/label. To make sure printing doesn't protrude out, ensure margins of 1.5 mm {0.06"} or more in the print data.

## Paper Ejection Tray

### NOTE

See the ["Attaching the Paper Ejection Tray" on page 80](#).

Black Mark Receipt	Paper type	Plain Media, Fine Media, PET Film
	Paper form	Fanfold paper
	Paper size	Width 76 to 105 mm × length 54 to 148 mm
	Paper thickness	0.119 to 0.151 mm
Black Mark Die-cut Label	Paper type	Plain Media, Fine Media
	Paper form	Fanfold paper
	Paper size	Width 76 to 105 mm × length 54 to 148 mm
	Paper thickness	0.145 to 0.161 mm

### CAUTION

- The paper ejection tray cannot store multiple sheets of roll paper.
- The paper ejection tray may not hold the paper perfectly, depending on the condition of the paper or printing.

## Ink Cartridge

Model number		SJIC22P(K)/SJIC22P(C)/SJIC22P(M)/SJIC22P(Y) for TM-C3500 SJIC23P(K)/SJIC23P(C)/SJIC23P(M)/SJIC23P(Y) for TM-C3510 (Taiwan / Southeast Asia model) SJIC24P(K)/SJIC24P(C)/SJIC24P(M)/SJIC24P(Y) for TM-C3520 (China (Hong Kong) model)
Type		4 color-ink separated exclusive ink cartridge
Ink color		Black, Cyan, magenta, yellow
Ink type		Pigment ink
Ink life		6 months after loading to the printer, 2 years after manufacturing
Temperatures	Transport	-20 to 60°C (up to 5 days for 60°C)
	Storage	-20 to 40°C (up to a month for 40°C)
	Installation	-20 to 40°C (up to a month for 40°C)



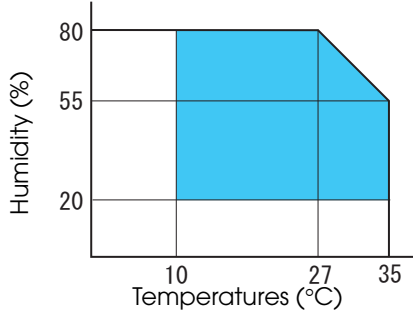
## Electrical Characteristics

Power supply		Dedicated AC adapter
Input voltage (rated)		100 V to 240 V
Frequency (rated)		50 Hz to 60 Hz
Power consumption	Operating	Approximately 30W (Peak: 50 W)
	Stand-by	Approximately 2.5 W
	When power is OFF	Approximately 0.3 W

CAUTION

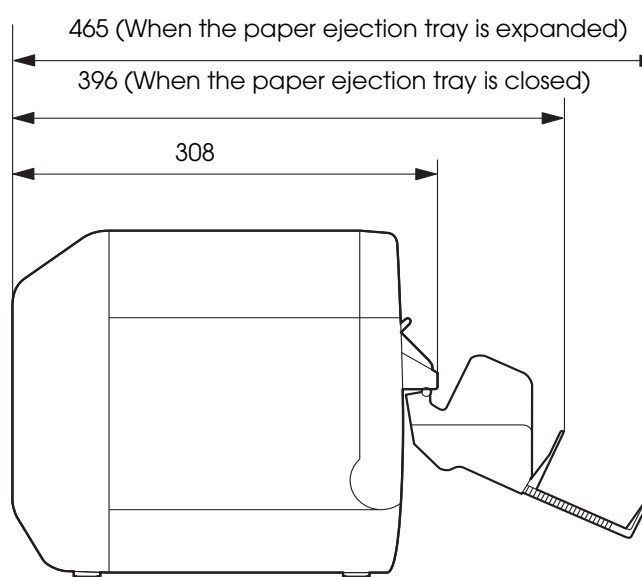
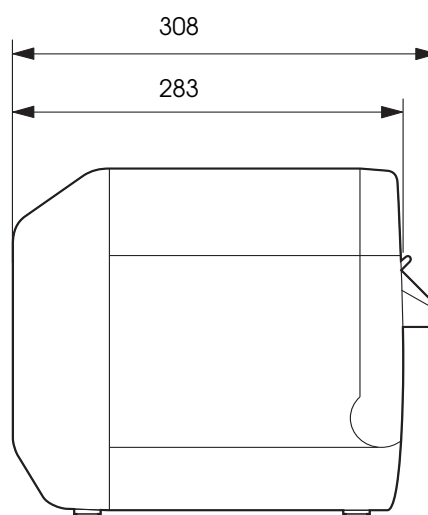
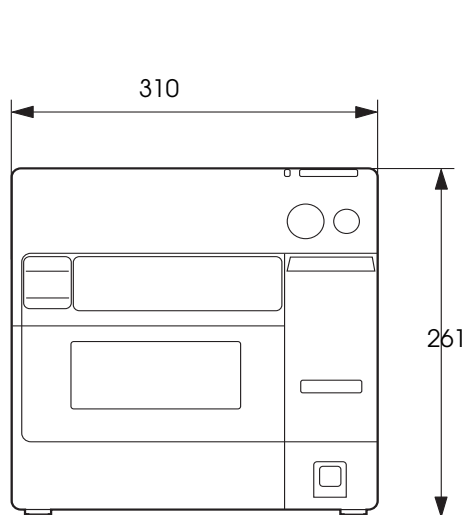
- Use the dedicated AC adapter included in the product package.
- For the Ethernet cable, use cable with CAT5e or higher shielding.

## Environmental Conditions

Item		Specification
Temperatures/ humidity	Printing	10 to 35°C, 20 to 80%RH (no condensation) 
	Barcode printing	15 to 35°C, 20 to 80%RH (no condensation)
	Storage	When packed (ink not loaded): -20 to 60°C, 5 to 85%RH (no condensation) -20°C or 60°C: up to 120 hours Ink loaded: -20 to 40°C -20°C: up to 120 hours 0 to 30°C: up to 6 months 40°C: up to a month
Pressure (elevation)	Operating	850 to 1060 hPa (approximately 0 to 1500 m above sea level)
	Not operating (including in transportation)	850 to 1060 hPa (approximately 0 to 1500 m above sea level)
Acoustic noise	During operation (including using the autocutter)	Approximately 56 dB (ANSI Bystander position) (Based on Epson evaluation conditions including the use of the autocutter)

## External Dimensions

- Height: 261 mm
- Width: 310 mm
- Depth: 283 mm



(Unit: mm)

---

## *Restrictions*

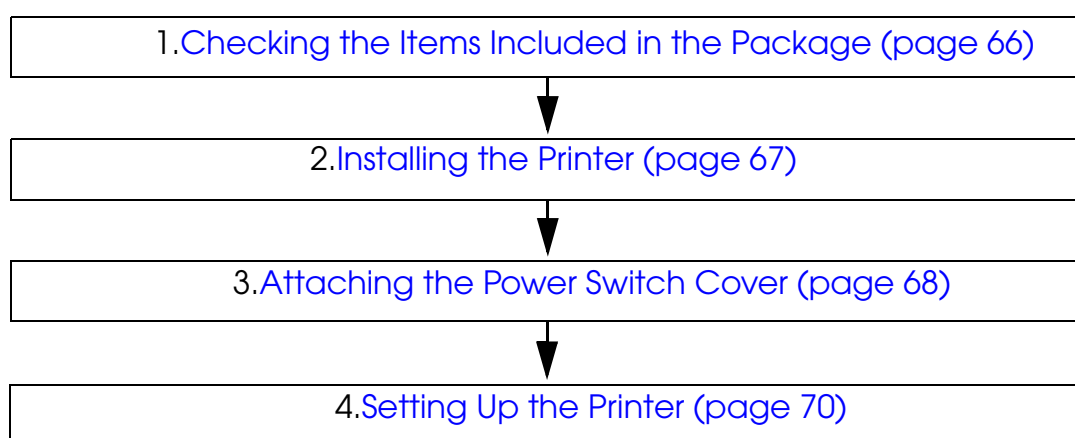
- ❑ If you turn the power off the product using the power button, the print head is automatically capped, which prevents the ink from drying. After installing the ink cartridges, be sure to turn the power off using the power button when you are not using the product. Do not pull out the power plug or trip 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, printing on glossy paper may cause finger prints on the paper or ink may adhere to your fingers when you touch it. Select paper not to cause print stains before use.

# Setup

This chapter describes setup and installation of the product and peripherals.

## Work Flow

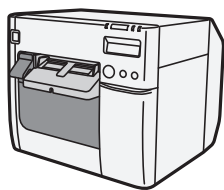
This chapter consists of the following sections along with the setup flow of the product and peripherals.



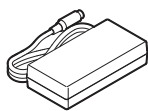
## Checking the Items Included in the Package

When using the printer for the first time, check the items included in the package.

The items included in the package are as follows:



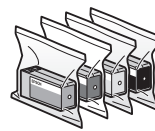
A



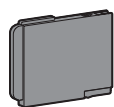
B



C



D



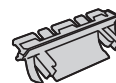
E



F



G



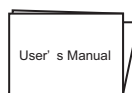
H



I



J



K

A	TM-C3500	B	Dedicated AC adapter	C	AC cable *1
D	Ink cartridge	E	Maintenance box	F	USB cable
G	Paper ejection tray	H	Paper feed guide *2	I	POWER button cover
J	Label roll paper	K	User's Manual		

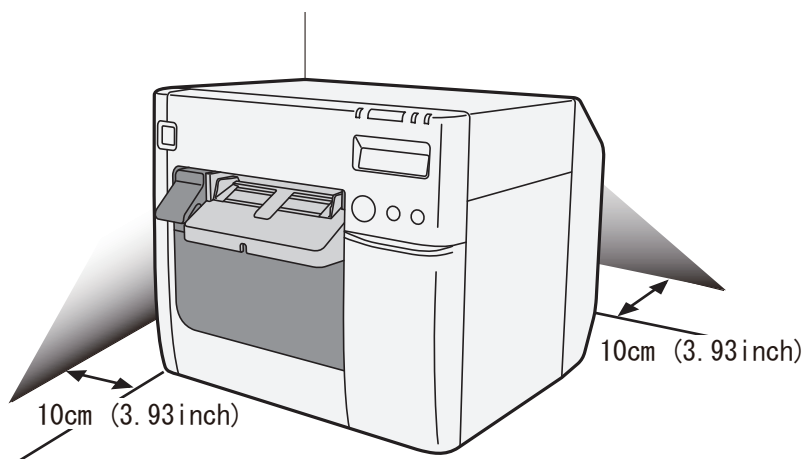
\*1 The AC cable may not be included with the product.

\*2 Attached on the rear of the fanfold paper cover.

## Installing the Printer

Install the printer in an appropriate location with sufficient space around it.

### Important Notes on Installation



- The printer must be installed horizontally.
- Leave enough space in front of the printer for the ink cartridge cover and the roll paper cover to be fully opened.
- Do not place the printer in a dusty location.
- Protect the printer from heavy impacts. They may cause defective print.
- Do not allow cables to get caught or foreign matter to accumulate under the printer.
- Make sure that there is at least 100 mm of space behind the printer back when installing.
- Do not put a heavy object (of 10 kg or more) or an object that vibrates on the printer.

## Attaching the Power Switch Cover

Attaching the power switch cover prevents accidental pressing of the power switch.

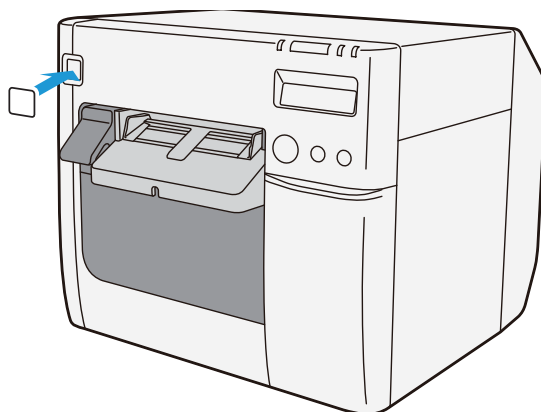
### CAUTION

Before attaching the power switch cover, set DIP switch 1 to ON. (For details, see “Setting the DIP switches” [Setting the DIP Switches on page 82](#).) The printer power can then be switched by turning the AC supply on and off, and you can also control the printer power with a device such as a distribution board. In this case, the power switch is used to reset the printer.

To prevent the power switch from being pressed

Attach the power switch cover as it is (without punching a hole in it).

- 1 Set DIP switch 1 to ON.
- 2 Push the power switch cover onto the power switch of the printer.



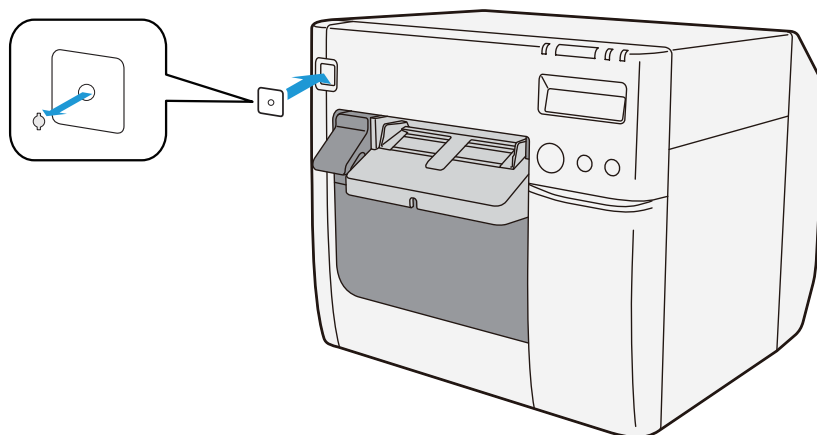


To switch the power switch by inserting a long, thin object into a hole  
Attach the power switch cover after punching the hole in it.

**CAUTION**

The hole cannot be punched in the power switch cover after it is attached to the printer.

- 1** Punch a hole in the power switch cover by pushing the middle of it with a hard, fine-tipped object.
- 2** Push the power switch cover onto the power switch of the printer.



# Setting Up the Printer

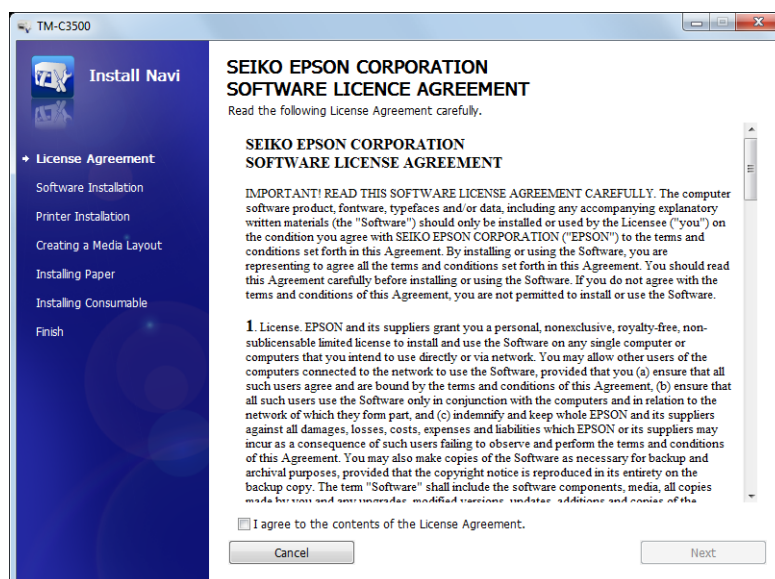
Set up the printer using Install Navi. Install Navi is included in the supplied CD-ROM.

- 1 Turn on the computer to be connected to the printer.
- 2 Make sure that the printer is turned off.

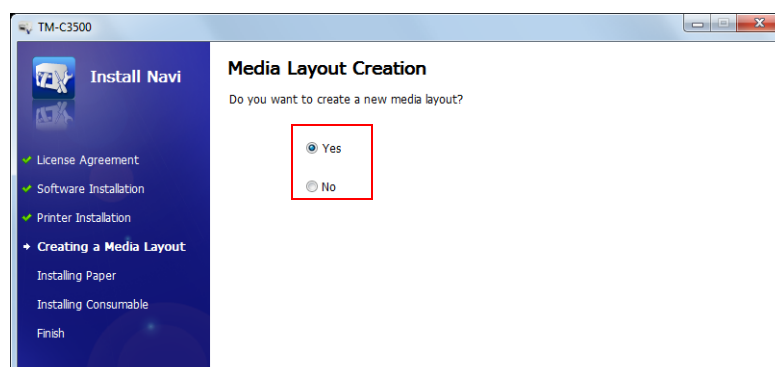
## CAUTION

Be sure to turn the printer off.

- 3 Set the CD-ROM in the computer, and Launcher automatically starts up. Click (Setup) to start InstallNavi.exe.
- 4 When Install Navi is executed, the following window appears. Agree to the license agreement and click (Next), and the software installation starts. Set up the printer according to the displayed instruction.



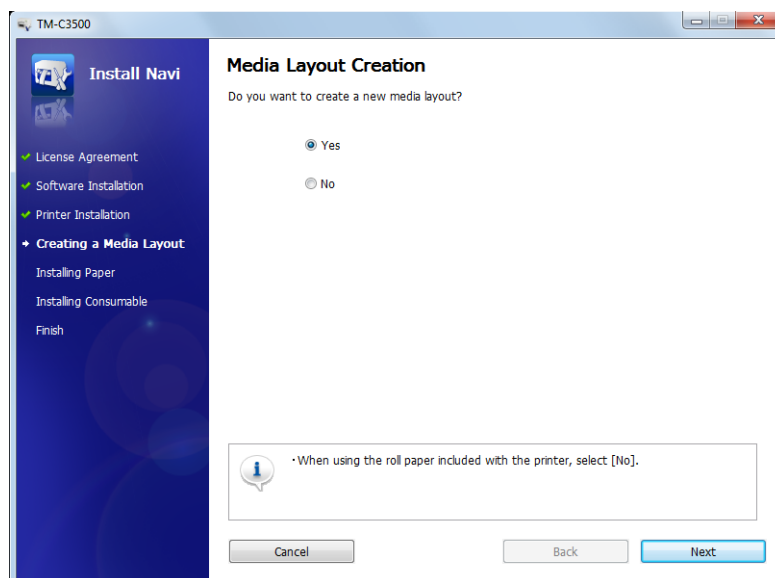
- 5** Later in the setup procedure, "Media Layout Creation" window appears. When "Media Layout Creation" window appears, if you do not use the roll paper included in the package, you have to create a new media layout. For the procedure to create a new media layout, see [Media Layout Creation on page 72](#). To use the supplied roll paper, select (No).



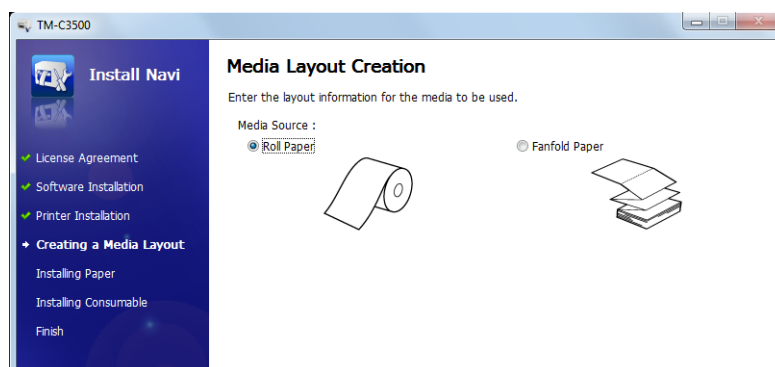
- 6** Set up the printer according to the steps. If test printing finishes successfully, the procedure is finished.

## Media Layout Creation

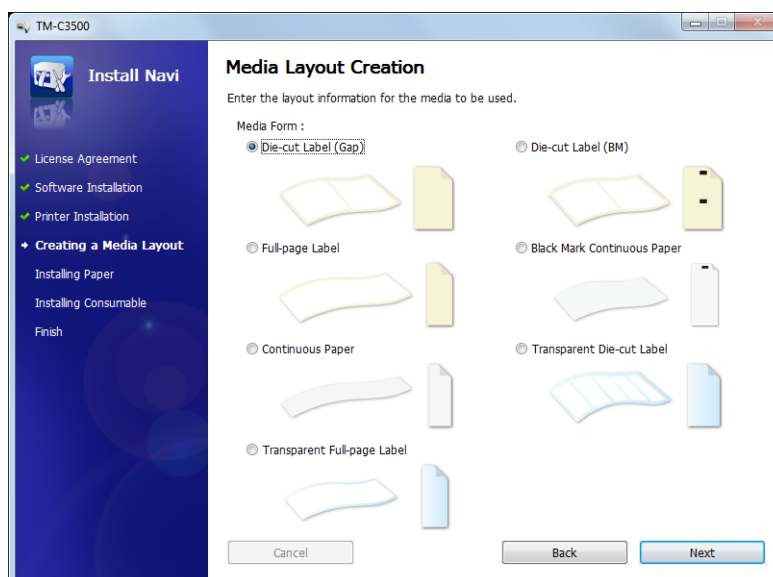
- 1 On "Media Layout Creation" window, select (Yes). Click (Next).



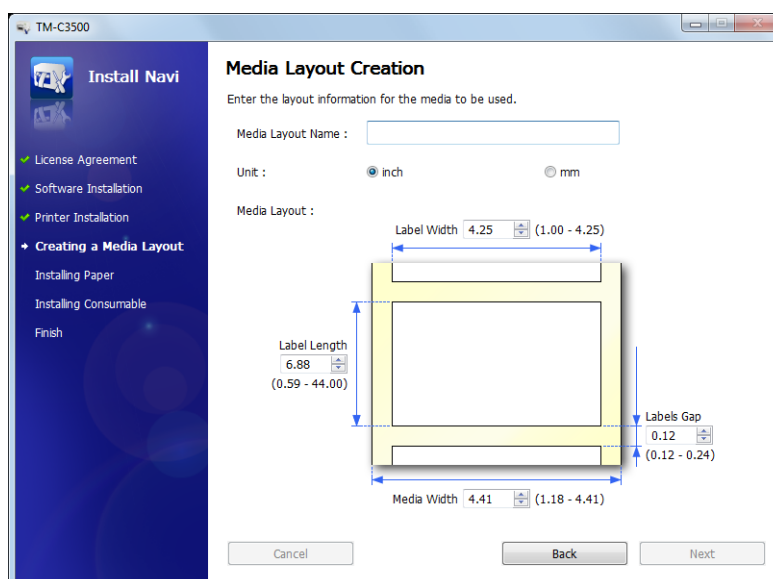
- 2 The following window appears.  
Select either (Roll Paper) or (Fanfold Paper) and click (Next).



- 3** The following window appears.  
Select the media to be used and click (Next).  
When fanfold paper is selected, only [Die-cut Label (BM)] and [Black Mark Continuous Paper] can be selected.



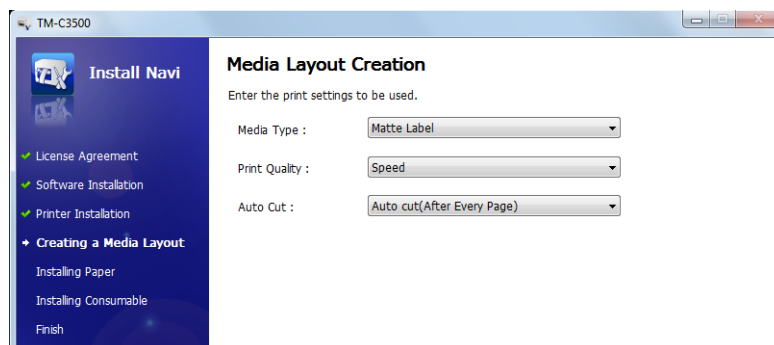
- 4** The following window appears. Enter each item and click (Next).



Item	Description
Media Layout Name	Enter any name.
Unit	Select the unit.

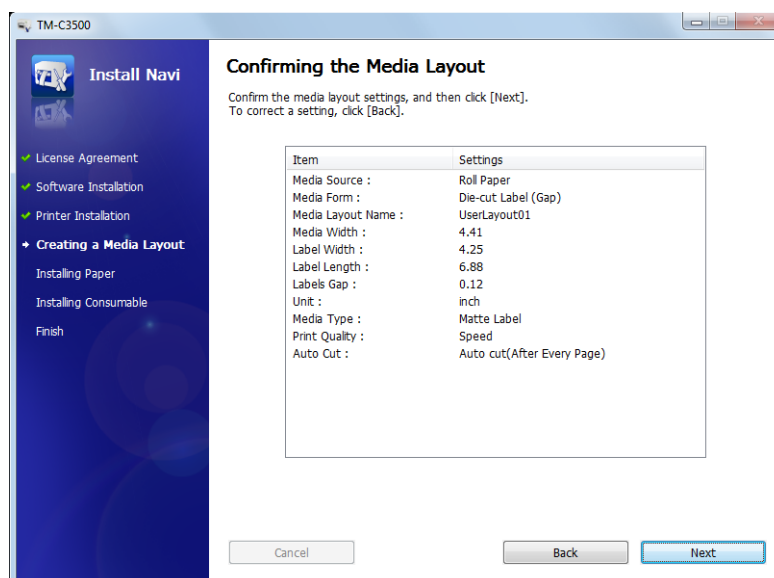
Item	Description
Media Layout	Enter the width and length of the media to be used. The information to be entered is different depending on the media type selected in Step 3.

**5** The following window appears. Enter each item and click (Next).

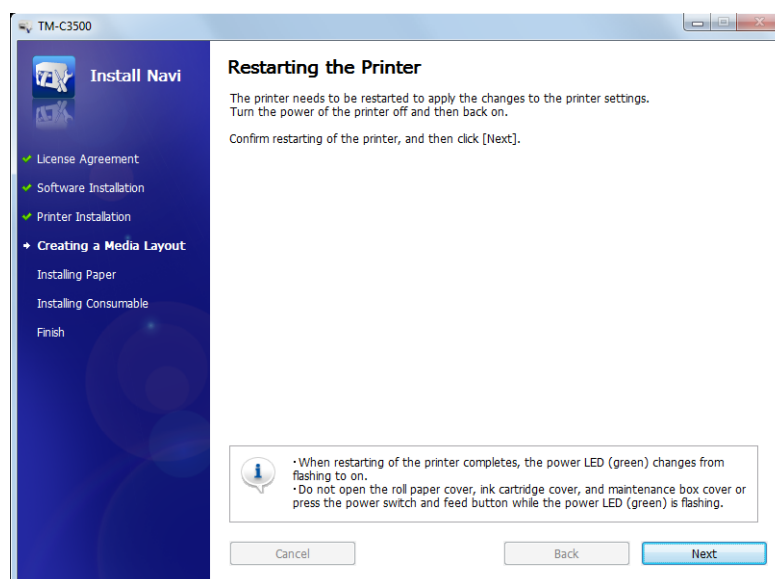


Item	Description
Media Type	Select the media type.
Print Quality	Select the print quality.
Auto Cut	Select whether to enable/disable autocut.

**6** "Confirming the Media Layout" screen appears.  
The newly set media layout information is displayed. Confirm the settings and click (Next).

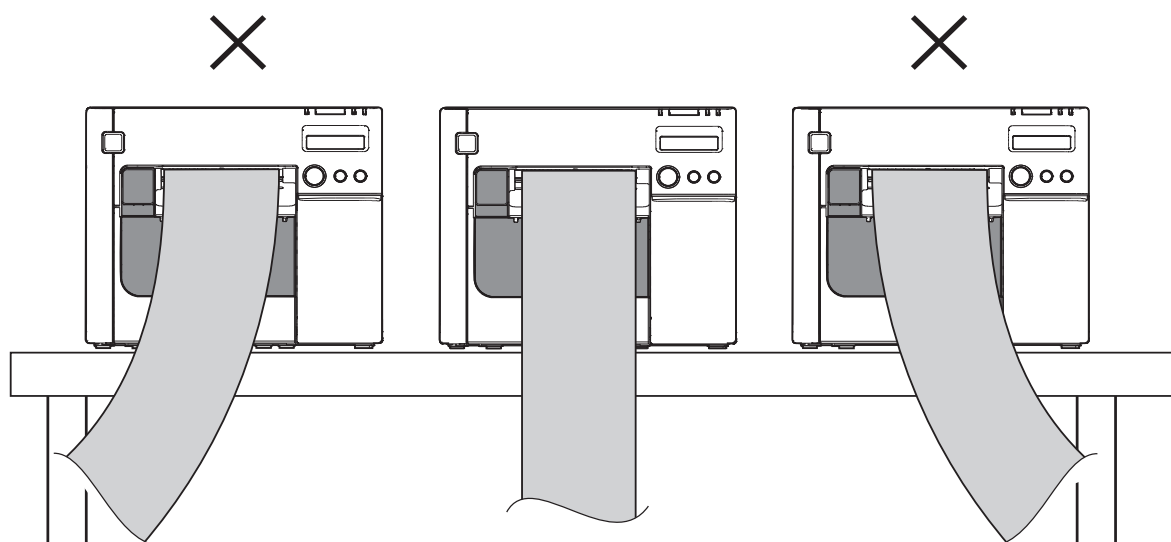


- 7 "Restarting the Printer" screen appears.  
Restart the printer to apply the new settings.



## *Ejection Angle of Printed Paper*

Make sure paper is ejected straight from the paper ejection guides, as shown in the illustration. If paper is not ejected straight due to such causes as an obstruction, the print result may be distorted.



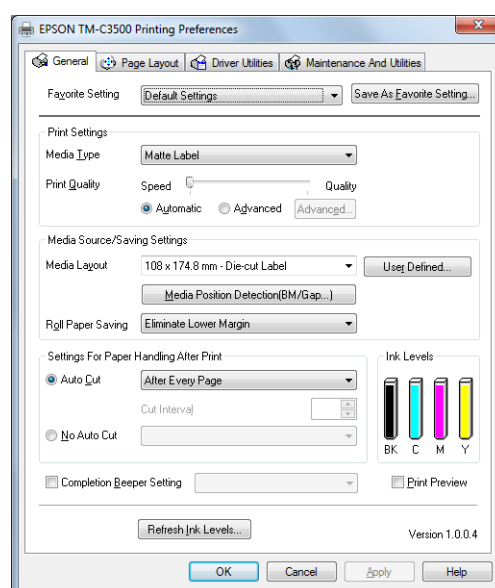


## How to Display the Printer Driver

- 1 Open the (Devices and Printers).
  - For Windows 8:  
Select **(Control Panel)** of Sidebar **(Settings)** on **(Desktop)**, and click **(Hardware and Sound)**, then **(Devices and Printers)**.
  - For Windows 7:  
Click **(View devices and printers)** of **(Control Panel)** on **(Start)** menu.
  - For Windows Vista:  
Click **(Printers)** of **(Control Panel)** on **(Start)** menu.
  - For Windows XP Professional:  
Click **(Printers and Faxes)** on **(Start)** menu.
  - For Windows XP Home Edition:  
Click **(Control Panel)** on **(Start)** menu, and click **(Printers and Faxes)**.
  - For Windows 2000:  
Click **(Settings)** on **(Start)** menu, and click **(Control Panel)**.
  - For Windows Server 2003 R2:  
Click **(Printers and Faxes)** on **(Start)** menu.
- 2 Right-click **(EPSON TM-C3500)**, and click **(Printing References)**.  
The printer driver screen is displayed.

### NOTE

The barcode printing position is moved based on the amount of margin.



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## Registering the Media Layout

If the paper size to use is not in Media Layout, register the user defined media.

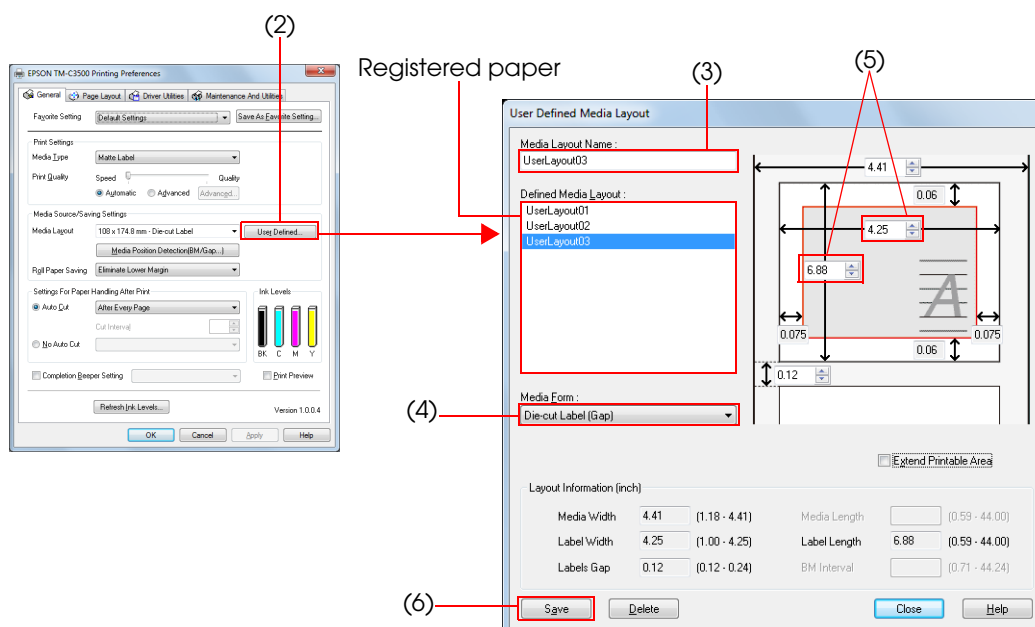
The registered layout will be stored in (Favorite Setting) to use from application of users.

(For details on how to register the favorite setting, see [Favorite Setting on page 118.](#))

- 1** Display the printer driver window.  
(See [How to Display the Printer Driver on page 77.](#))
- 2** From (Media Source/Saving Settings), click (User Defined...).  
"User Defined Media Layout" screen appears.
- 3** Enter Media Layout Name. This is User Defined Media.  
If there is an existing defined media layout, you can create a new layout based on the defined media layout.
- 4** Select (Media Type).
- 5** Enter the size of the paper (unit: mm).

<b>NOTE</b>	To extend the printable area, selecting [Extend Printable Area] will set no margins. When the margin is zero, printing may occur out of the paper/label. Use this option according to the usage.
-------------	--

- 6** Click (Save). User Defined Media will be registered and displayed on the list of (Defined Media Layout).



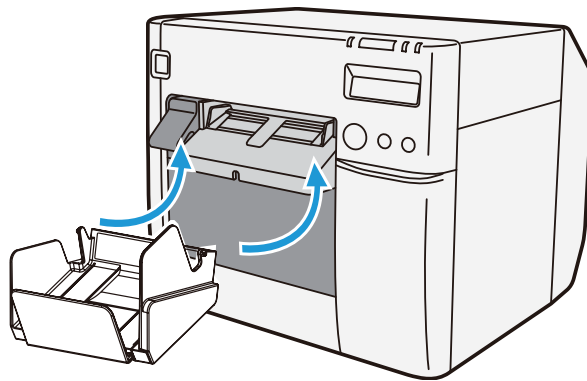
## Attaching the Paper Ejection Tray

If you attach the paper ejection tray, you can temporarily store the printed paper in the tray. Follow the steps below to install/adjust the ejection tray.

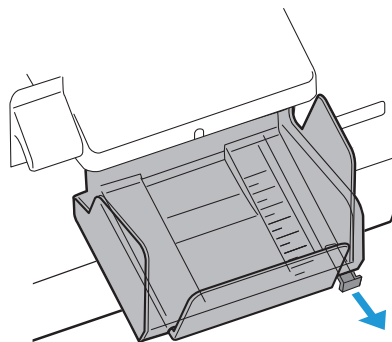
### CAUTION

- Paper may not stay in the paper ejection tray depending on the paper curl and length.
- When the fanfold paper is used, the several printed papers can be stored in the ejection tray. See [Paper Ejection Tray on page 60](#) for the numbers of the fanfold paper that can be stored in the ejection tray.

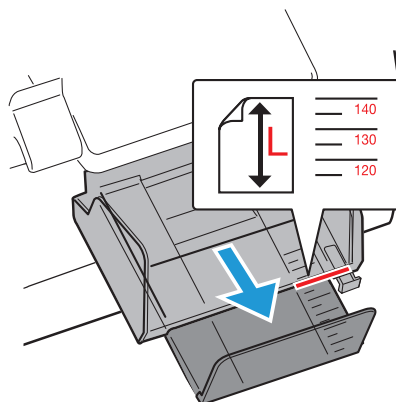
- 1** Attach the paper ejection tray to the hooks under the paper ejection table.



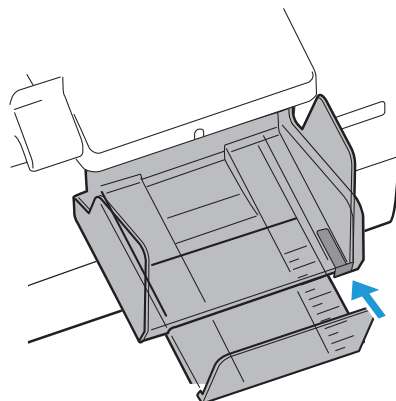
- 2** Pull the lever at the bottom-right of the paper ejection tray to unlock it.



- 3** Slide the bottom tray to align it with the paper length.



- 4** Pull up the lever at the bottom-right of the paper ejection tray to lock it.



## Setting the DIP Switches

Change the DIP switch settings in the following cases.

- When attaching the power switch cover to prevent the power switch from being pressed
- When changing the LCD display language
- When changing the volume of the buzzer

### Setting Procedure

Follow the steps below to change the DIP switch settings.



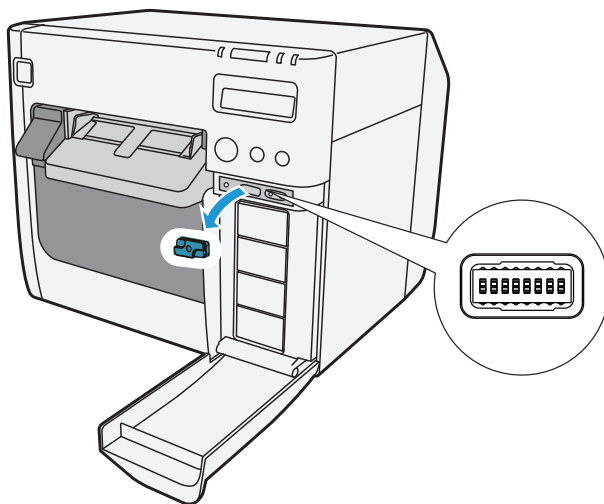
**Turn the power off before removing the DIP switch cover.**

Otherwise, a short-circuit may cause the printer to malfunction.

**CAUTION**

DIP switch setting becomes enabled after turning the power on or completing reset by the interface.

- 1** Make sure the power supply for the printer is turned OFF.
- 2** Open the ink cartridge cover and remove the DIP switch cover.



- 3** Set the DIP switches, using the tip of a tool, such as a small screwdriver.
- 4** Attach the DIP switch cover, and close the ink cartridge cover.

## Function of the DIP Switches

SW	Function	ON	OFF	Factory settings
1	Operation of the power switch	Reset	Power ON/OFF	OFF
2	Internal use	Fixed to OFF (Do not change)		OFF
4	Internal use	Fixed to OFF (Do not change)		OFF
5	LCD display language settings	See the table below		OFF
6				OFF
7				OFF
8	Buzzer volume	High	Low	OFF

### CAUTION

When attaching the power switch cover to prevent the power switch to be pressed, set DIP switch 1 to ON.

## LCD display language settings

Switch No.			Language settings
5	6	7	
OFF	OFF	OFF	Japanese (Kana)
OFF	OFF	ON	English
OFF	ON	OFF	French
OFF	ON	ON	Italian
ON	OFF	OFF	German
ON	OFF	ON	Spanish
ON	ON	OFF	Portuguese
ON	ON	ON	Dutch

# Setting the Printer Driver

In addition to the printing preferences, the printer driver also provides the printer settings and various utility functions.

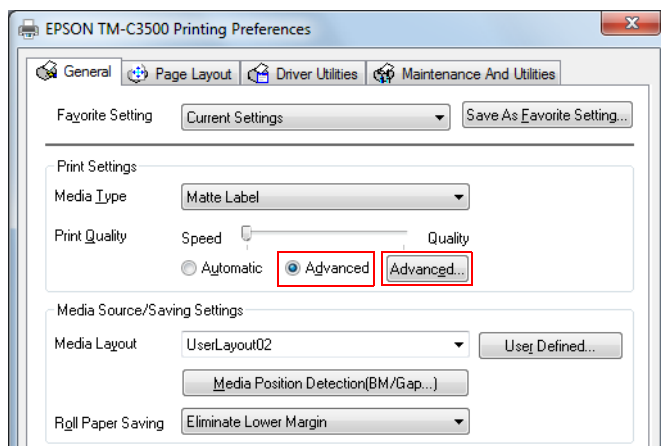
- Banding Reduction
- TM-C3500 PrinterSetting
- Setting for EPSON Status Monitor 3

## Banding Reduction

You can reduce banding (extraneous lines in printing) to obtain better print quality. This function, however, lowers the print speed.

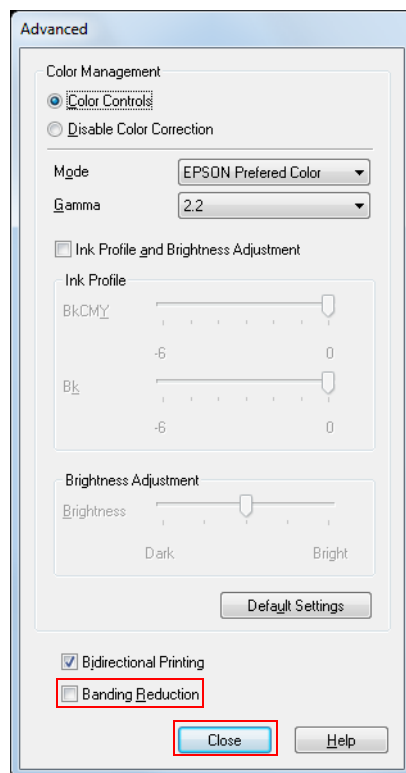
Follow the steps below to reduce banding.

- 1 Display the printer driver window.  
(See [How to Display the Printer Driver on page 77.](#))
- 2 On "General" window, select (Advanced) under (Print Settings). Then click (Advanced...).





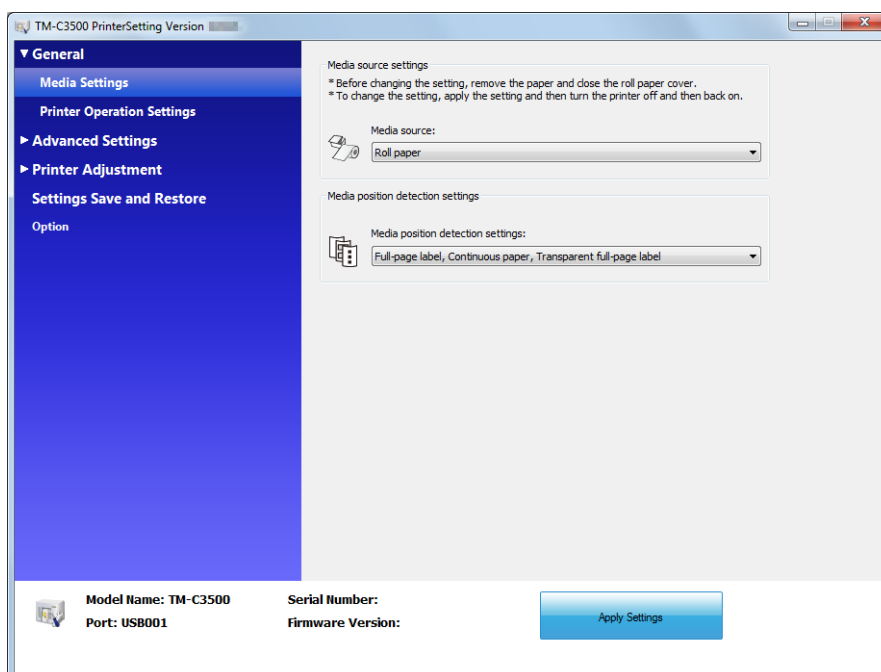
- 3** "Advanced" screen appears. Check (Banding Reduction), and click (Close).



- 4** The screen returns to "General" window. Click (OK).

## TM-C3500 PrinterSetting

TM-C3500 PrinterSetting is used to change various printer settings.



From TM-C3500 PrinterSetting, you can change the following printer settings:

Item		Description
General	Media source settings	<ul style="list-style-type: none"> <li>Media source settings</li> <li>Media position detection settings</li> </ul>
	Printer Operation Settings	<ul style="list-style-type: none"> <li>Nozzle Check Mode</li> <li>Paper Loading Settings</li> </ul>
Advanced	Notification Settings	<ul style="list-style-type: none"> <li>Beep Notification Setting at an Error</li> <li>LED Notification Setting at Ink Low</li> <li>Notification Setting at a Media Size Error</li> </ul>
	Panel Button Settings	<ul style="list-style-type: none"> <li>Enable/Disable the Feed Button</li> <li>Enable/Disable the Cut Button</li> <li>Enable/Disable the Cleaning Button</li> </ul>
	Operating Time Settings	<ul style="list-style-type: none"> <li>Platen Vacuum Operation Pause Time Settings</li> <li>Data Standby Time Settings</li> </ul>

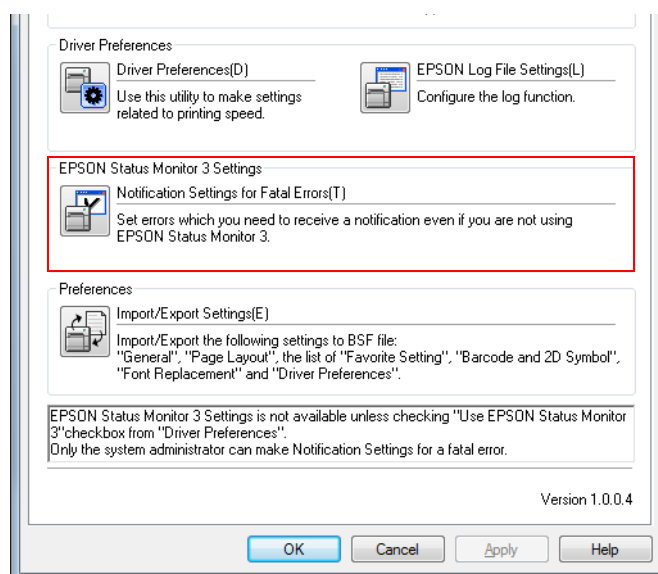
Item		Description
Printer Adjustment	Paper Feed Adjustment	<ul style="list-style-type: none"> <li>Paper Feed Adjustment</li> </ul>
	Sensor Adjustment	<ul style="list-style-type: none"> <li>Adjust the Label Gap Detection Sensor</li> <li>Adjust the Black Mark Detection Sensor</li> </ul>
	Peint Head Alignment	<ul style="list-style-type: none"> <li>Banding Adjustment</li> <li>Bi-directional Printing Adjustment</li> </ul>
Setting Save and Restore		<ul style="list-style-type: none"> <li>Current Settings</li> <li>Settings Save and Restore</li> </ul>
Option		<ul style="list-style-type: none"> <li>Media source Settings Option</li> </ul>

## Setting EPSON Status Monitor 3

When EPSON Status Monitor 3 is used, the paper type and the ink level are displayed on a pop-up window when printing. In addition, when a fatal error occurs, an error window is displayed. [Not use] is set by default setting; however, if a fatal error occurs, an error window can be displayed.

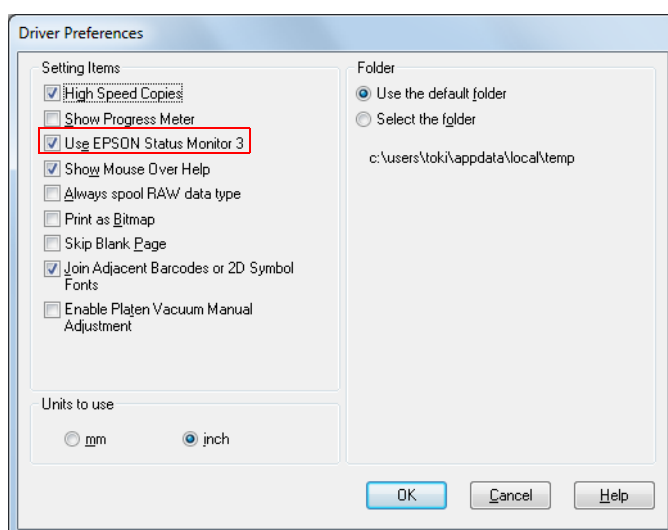
### Use/Not use EPSON Status Monitor 3

[Not use EPSON Status Monitor 3] is set by default setting. [Notification Settings for Fatal Errors] is displayed on the EPSON Status Monitor 3 Settings window in Driver Utilities.

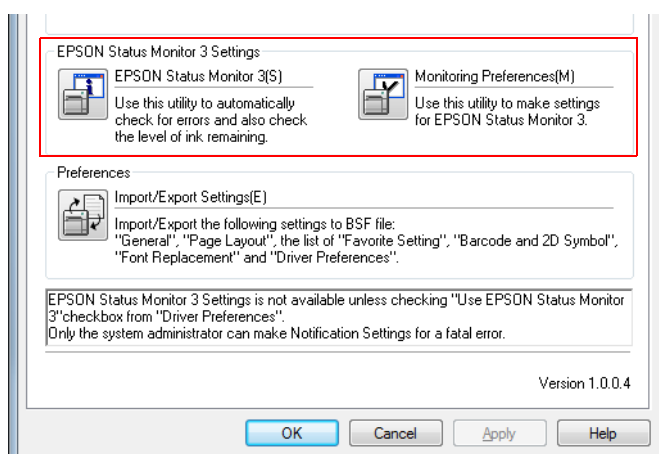


Follow the steps below to change to [Use EPSON Status Monitor 3].

- 1 Turn the printer ON.
- 2 Display the printer driver window.  
(See [How to Display the Printer Driver on page 77.](#))
- 3 Select (Driver Utilities) tab and click (Driver Preferences) under (Driver Preferences).
- 4 The (Driver Preferences) window is displayed.  
Check the box of (Use EPSON Status Monitor 3) and click (OK).



- 5 (EPSON Status Monitor 3) and (Monitoring Preferences) are displayed in (EPSON Status Monitor 3 Settings) on the Driver Utilities window.

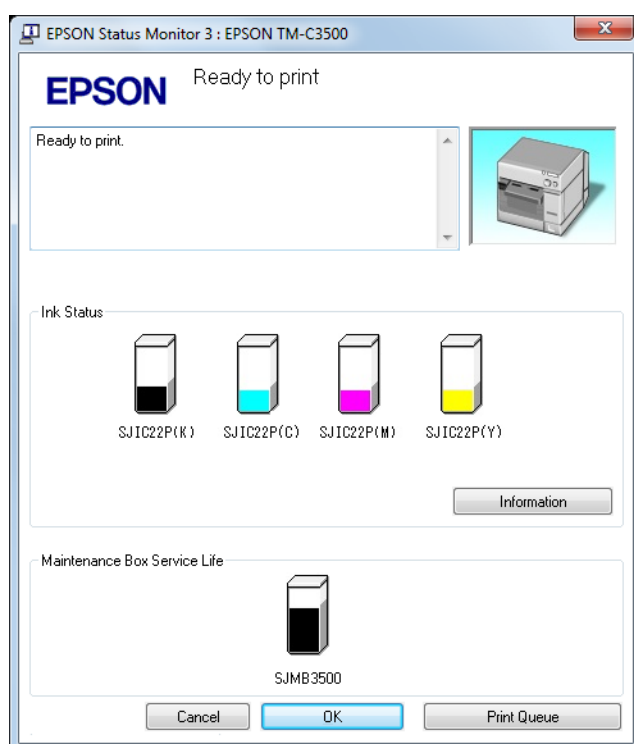


## Use EPSON Status Monitor 3

When [Use EPSON Status Monitor 3] is set, the following operations will be performed:

- When printing, a window automatically appears, allowing you to check the printer status and the ink level.
- Error information is displayed when an error occurs during printing.  
The EPSON Status Monitor 3 will not be activated if an error occurs when not printing.
- Clicking the icon for [EPSON Status Monitor 3] on the task tray allows you to display [EPSON Status Monitor 3] at any time.

(See [Displaying the icon on page 93](#) for how to display the icon.)



Display window for EPSON Status Monitor 3



Icon on task tray

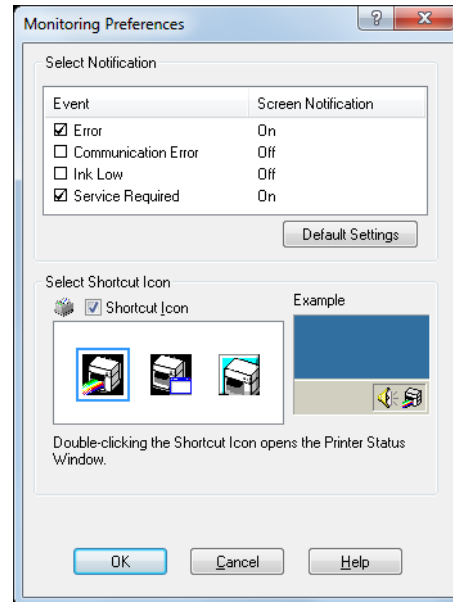
- The following items can be set in [Monitoring preferences].

Selecting error indications:

(See [Error notification setting for \[Not use EPSON Status Monitor 3\]](#) on page 91.)

Displaying the [EPSON Status Monitor 3] icon on the task bar:

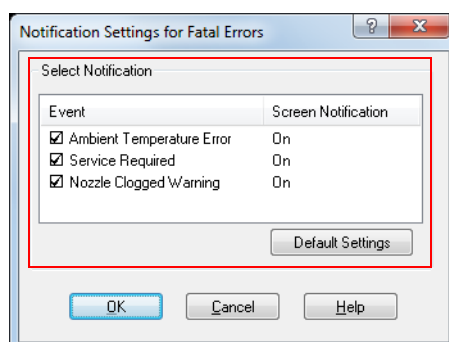
(See [Displaying the icon on page 93.](#))



## Error notification setting for (Not use EPSON Status Monitor 3)

Follow the steps below to set error notification for [Not use EPSON Status Monitor 3].

- 1** Turn the printer on.
- 2** Display the printer driver window.  
(See [How to Display the Printer Driver on page 77.](#))
- 3** Select (Driver Utilities) tab and click (Driver Preferences).  
When EPSON Status Monitor 3 is enabled, [Notification Settings for Fatal Errors] is not displayed. (Disable EPSON Status Monitor 3 by referring to [Use/Not use EPSON Status Monitor 3 on page 87.](#))
- 4** The (Notification Settings for Fatal Errors) window is displayed. Select the items you want to display when an error occurs, and click (OK).



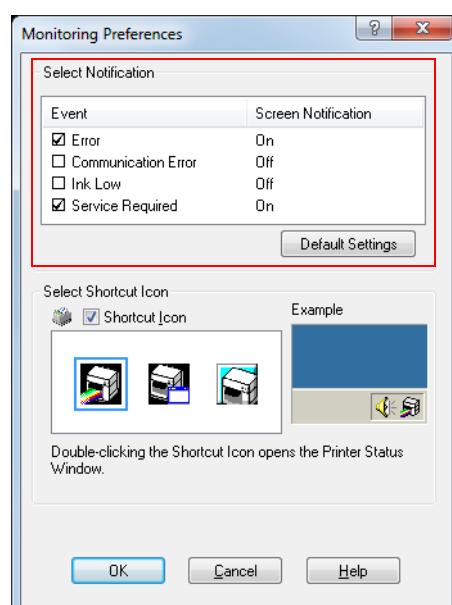
- Ambient Temperature Error: When the printer temperature is high  
(Default: Screen Notification [On] )
- Service Required: When a no-print error or service-required error occurs  
(Default: Screen Notification [On] )
- Nozzle Clogged Warning: When the nozzle is clogged  
(Default: Screen Notification [On] )

---

## Error notification setting for (Use EPSON Status Monitor 3)

Follow the steps below to set error notification for [Use EPSON Status Monitor 3].

- 1** Turn the printer ON.
- 2** Display the printer driver window.  
(See [How to Display the Printer Driver on page 77.](#))
- 3** Select (Driver Utilities) tab and click (Monitoring Preferences).  
When EPSON Status Monitor 3 is disabled, the [Monitoring Preferences] is not displayed.  
(Enable EPSON Status Monitor 3 by referring to [Use/Not use EPSON Status Monitor 3 on page 87.](#))
- 4** The (Monitoring Preferences) window is displayed. Click on the box of your choice, and click (OK).



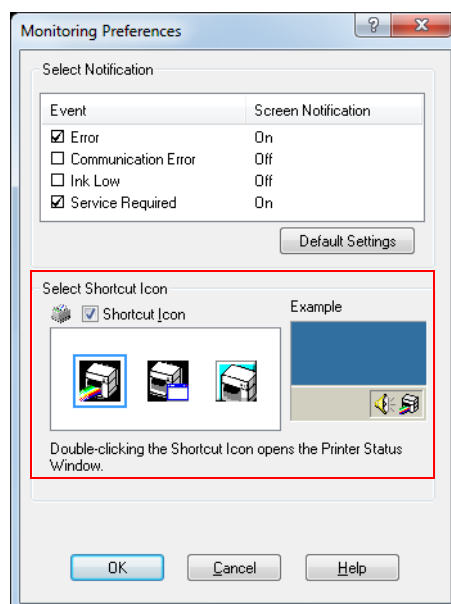
- Error: When paper/ink replacement is required  
(Default: Screen Notification [On] )
- Communication Error: When the printer power is off  
(Default: Screen Notification [Off] )
- Ink Low: When the ink amount is low  
(Default: Screen Notification [Off])
- Service Required: When a printer error occurs  
(Default: Screen Notification [On] )



## Displaying the icon

Keeps icon on the task tray so that user can check as needed. The icon is not displayed when default setting. Follow the steps below to display the icon.

- 1** Turn the printer ON.
- 2** Display the printer driver window.  
(See [How to Display the Printer Driver on page 77.](#))
- 3** Select (Driver Utilities) tab and click (Monitoring Preferences).
- 4** The (Monitoring Preferences) window is displayed. Check the box of (Shortcut Icon) and select the icon to display on the task bar. Click (OK).





# Handling

This chapter describes basic handling of the printer.

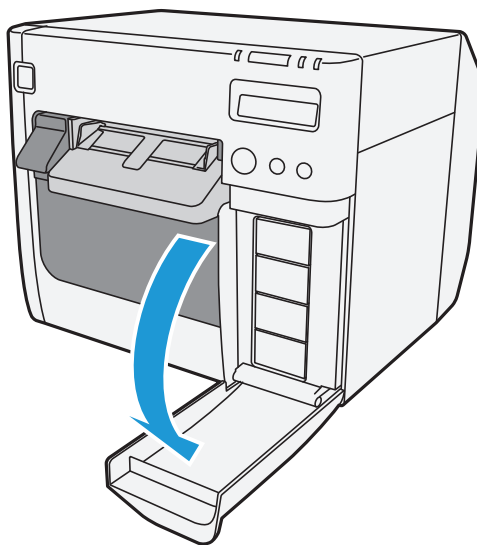
## *Replacing the Ink Cartridge*

When the ink ends, the INK LED lights. Follow the steps below to replace the ink cartridge.

- 1** Turn the power on and make sure that the INK LED lights.
- 2** Pull down the ink cartridge cover to the front to open it.

**CAUTION**

Open the ink cartridge cover, and wait at least 4 seconds until internal operations stop. If you take out the ink cartridge in less than 4 seconds, there is a risk that the ink may spurt out.



3

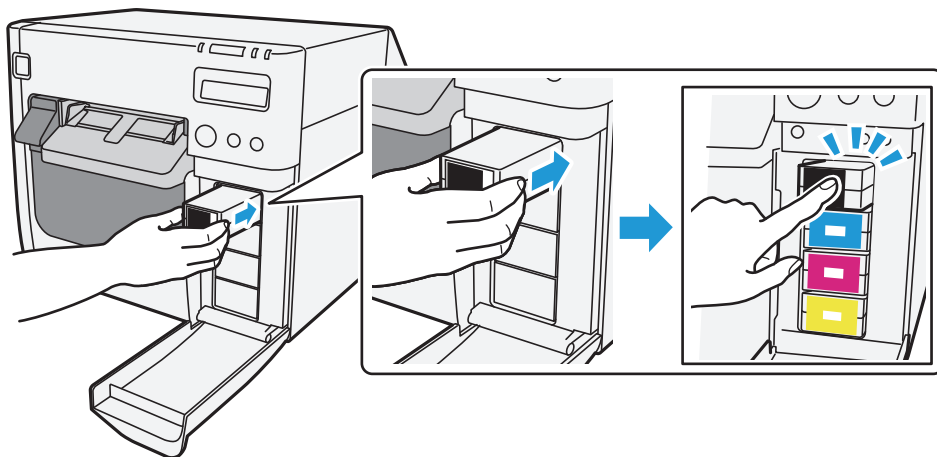
- 3 If there is a used ink cartridge that requires replacement, slowly push the ink cartridge, check that the lock is released, and pull the ink cartridge out towards you.

- 4 Shake new ink cartridge package 4 or 5 times before opening it and take out the ink cartridge from the package.

**NOTE**

Do not shake the ink cartridge too hard. The ink cartridge may leak if you shake it around too much or push the sides strongly.

- 5 With the label facing upwards, insert the new ink cartridge, and push it in slowly until it clicks into place.



- 6 Close the ink cartridge cover.
- 7 When the ink cartridge replacement is completed, the INK LED turns off, and printing can be performed.

---

## Cautions on using ink cartridges

- ☐ Do not touch the IC chip on the cartridge. Doing so may cause operating/printing malfunction.
- ☐ This product uses ink cartridges equipped with an IC chip that monitors the amount of ink used by each cartridge. Cartridges are usable even if they are removed and reinstalled. However, if an ink cartridge in which little amount of ink remains 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.
- ☐ Install all ink cartridges. Printing is not possible even if 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 cartridge.
- ❑ All the ink colors are consumed also for the maintenance operations when an ink cartridge is replaced and for print head cleaning.
- ❑ Even for monochrome printing, all the ink colors are used in an operation designed to maintain the printing and print head quality.
- ❑ Use of an old ink cartridge may result in reduced print quality. Use it up within six months after opening the package. The usage period for ink cartridges is printed on the packaging of individual ink cartridges.
- ❑ There may be some ink around the ink supply port on the removed ink cartridge. Take care so that it does not stain the desk or other surface.
- ❑ Do not remove the ink cartridge, except when you replace it.
- ❑ Do not open the ink cartridge package until you are ready to install it in the product.
- ❑ Do not allow foreign objects to fall into the cartridge installation section. Doing so may cause printing malfunction.
- ❑ When ink is charged for the first time (right after purchase), ink is consumed for filling the print head nozzle (ink discharge holes) to get ready for printing. That is why the number of the printable sheets may be fewer than for the cartridges to be installed later.
- ❑ Epson recommends the use of 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 printing 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.
- ❑ Color adjustment of the product is based on the use of genuine Epson ink cartridges. Use of non-genuine ink cartridges may result in reduced print quality. Use of genuine Epson ink cartridges is recommended.
- ❑ A cool and dark place is recommended to store ink cartridges.
- ❑ If the ink cartridge is stored in a cold place for a long period of time, let it warm up at least 3 hours before using it.
- ❑ If moving or transporting the product after the ink cartridges are installed, leave them installed during the moving or transporting process.

## Replacing Maintenance Box

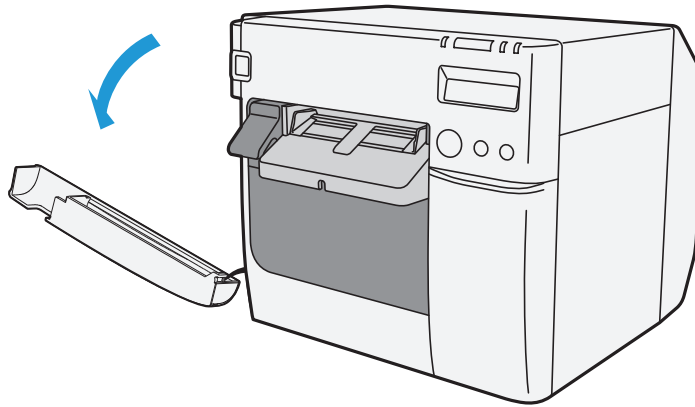
### CAUTION

- Do not dismantle the Maintenance box.
- Do not touch the IC chip on the cartridge.
- Keep out of reach of children, and do not drink.
- Do not reuse a maintenance box which has removed and detached a long period.

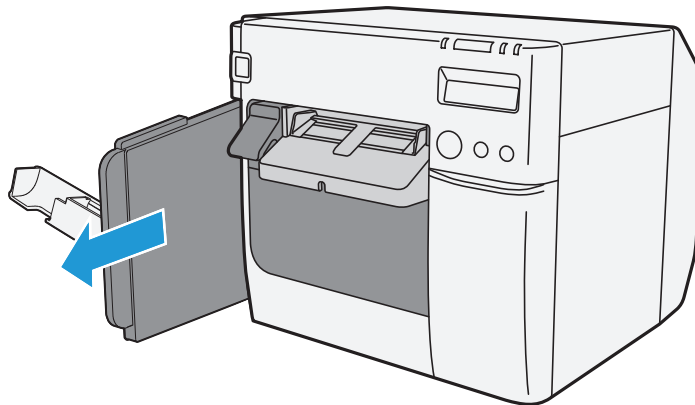
Follow the steps below to replace the maintenance box.

**1** Turn the printer OFF.

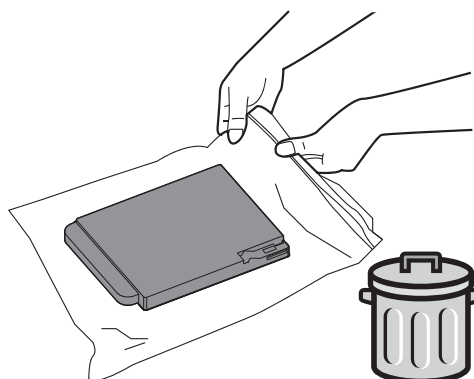
**2** Open the maintenance box cover towards you.



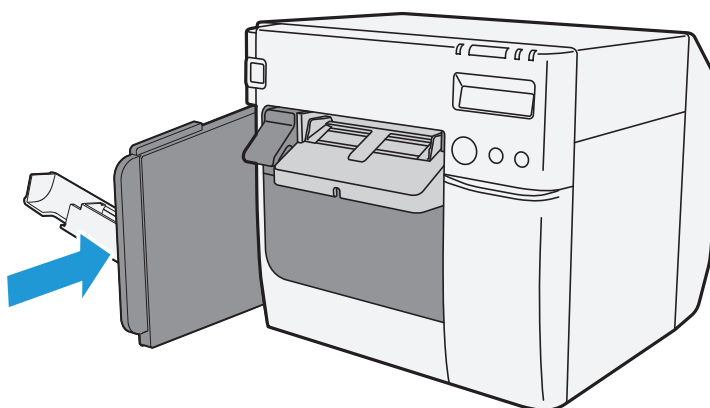
**3** Pull out the used maintenance box towards you.



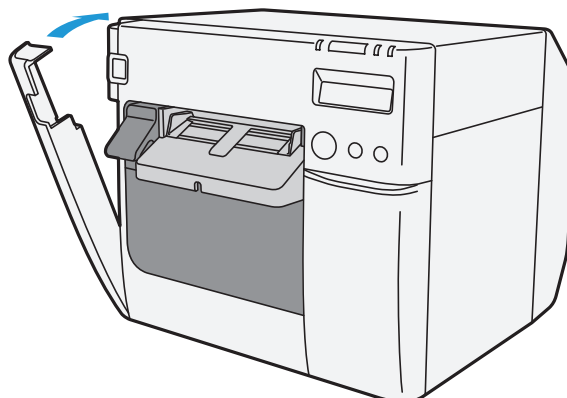
- 4** Put the maintenance box into the plastic bag for disposal of used maintenance box.



- 5** With the label of replacement facing right, slowly insert the new maintenance box.



- 6** Close the maintenance box cover.

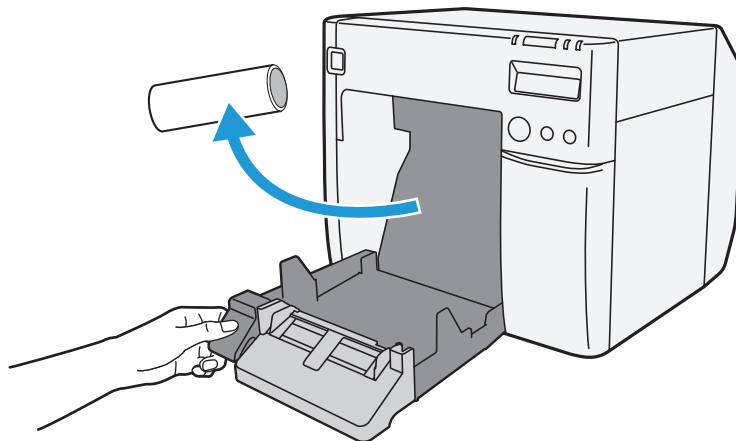
**NOTE**

After replacing the maintenance box, we recommend that you clean the platen.  
(See the ["Cleaning the platen"](#) on page 172.)

## Replacing Roll Paper with Fanfold Paper

Follow the steps below to replace the roll paper with fanfold paper.

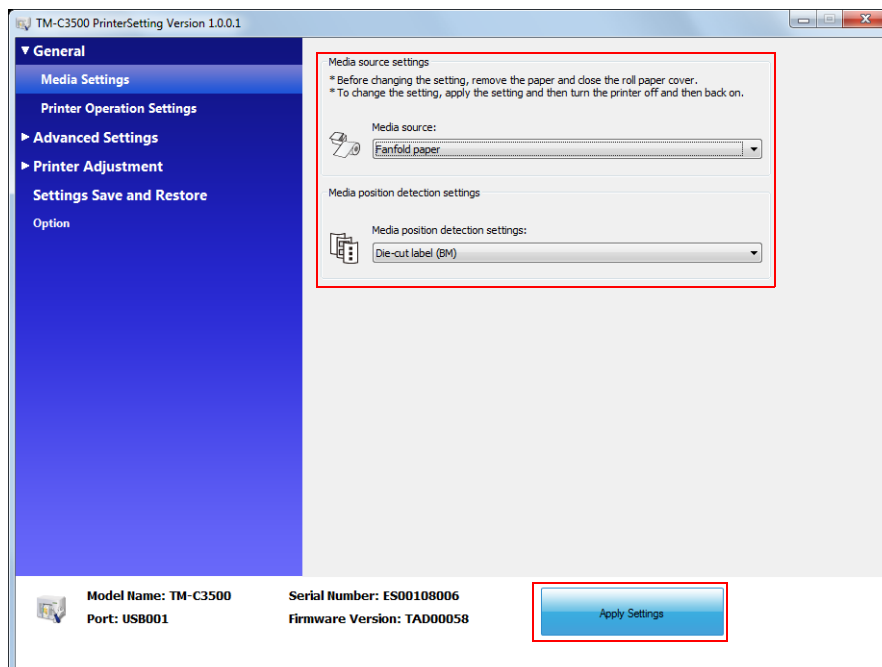
- 1** Press down the release lever, and pull it to the front to open the roll paper cover.  
Remove the used roll paper.



- 2** Turn the printer ON.
- 3** Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))
- 4** Display TM-C3500 PrinterSetting. Select (Maintenance And Utilities) tab and click (Printer Preferences) - (Printer Setting).



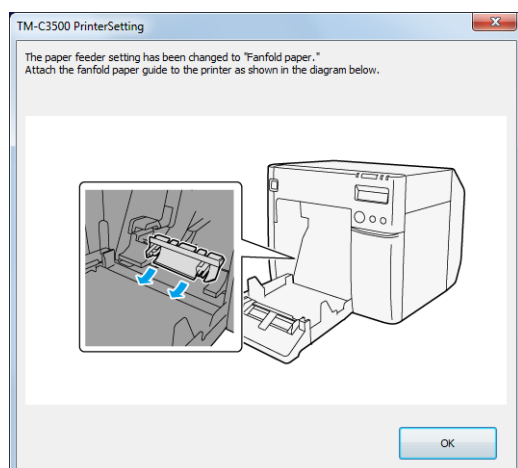
- 5** From TM-C3500 PrinterSetting, specify the media source and the media position detection method. Then, click (Apply Settings).  
After setting [Media source], set [Media position detection settings].



Item	Description
Media source	Select (Fanfold paper).
Media position detection settings	Select the media type. <ul style="list-style-type: none"> <li>Die-cut label (BM)</li> <li>Black mark continuous paper</li> </ul>

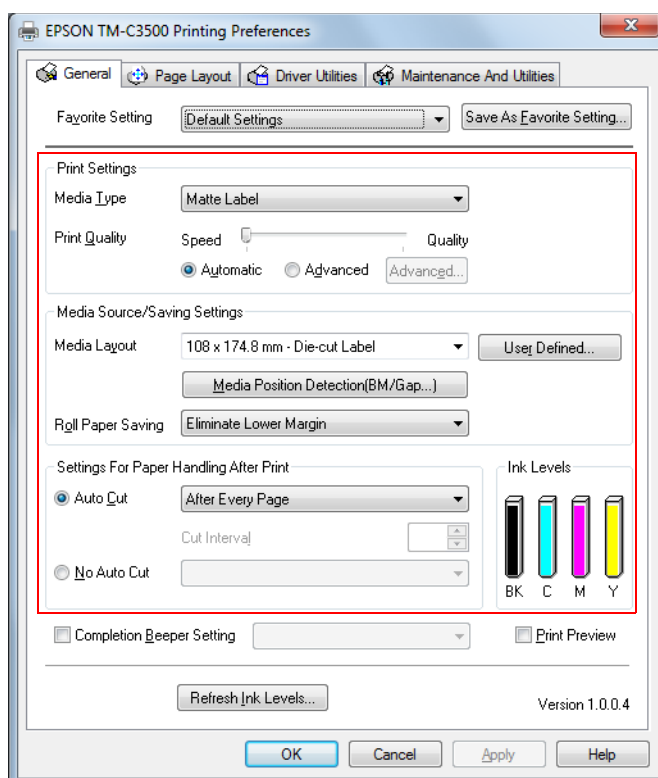
6 The confirmation window appears. Click (Yes) to send the settings to the printer.

7 The following window appears. Click (OK).



8 The completion window appears. Click (OK).

9 On the printer driver window, select (General) tab. Specify the media settings and click (OK).



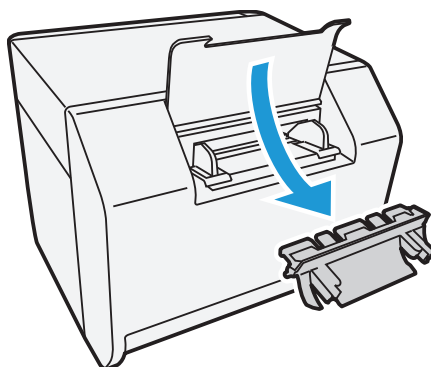
Item		Description
Print Settings	Media Type	Select the media type.
	Print Quality	Select the print quality.
Media Source/Saving Settings	Media Layout	Select the media layout. If the media layout to be used is not included in the list, create a new layout. See the <a href="#">"Registering the Media Layout" on page 78.</a>
Settings For Paper Handling After Print	Auto Cut	Select this to enable autotcut after printing.
	No Auto Cut	Select this to disable autotcut after printing.

## 10 Turn the printer OFF.

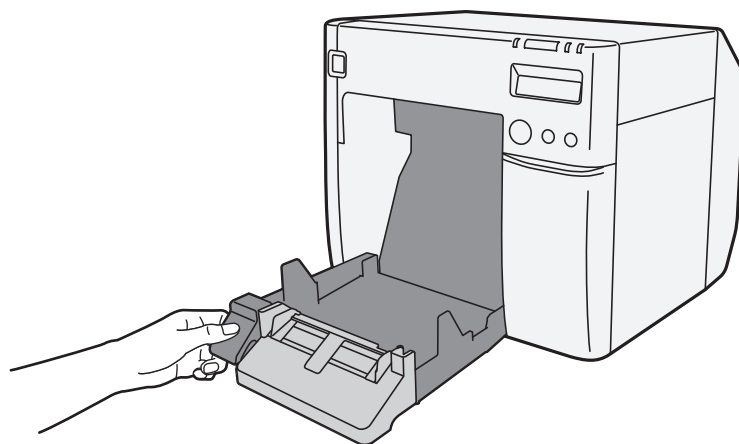
### CAUTION

Changes in the media position detection settings are saved in the memory in the printer when the printer is turned off.

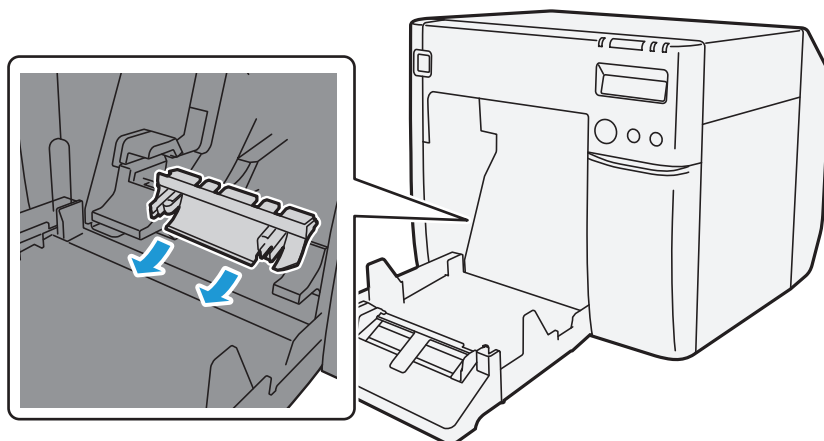
## 11 Open the fanfold paper cover and take out the paper feed guide.



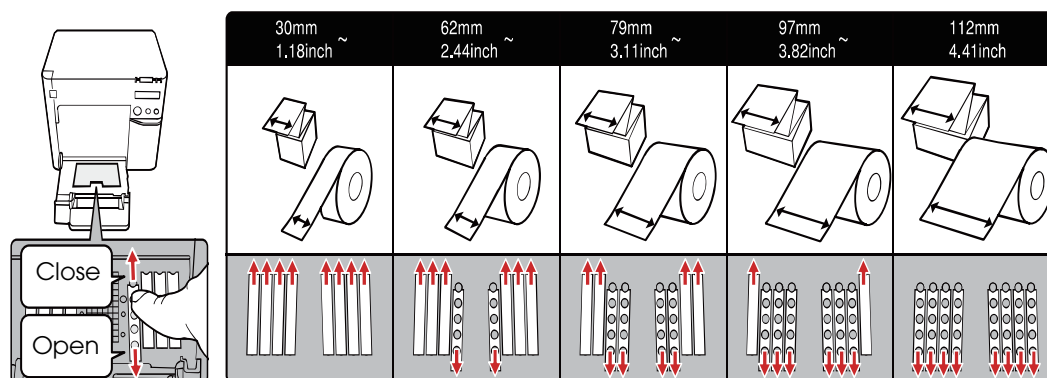
- 12** Press down the release lever, and pull it to the front to open the roll paper cover.



- 13** Insert the paper feed guide for fanfold paper into the groove inside the roll paper cover to install it.

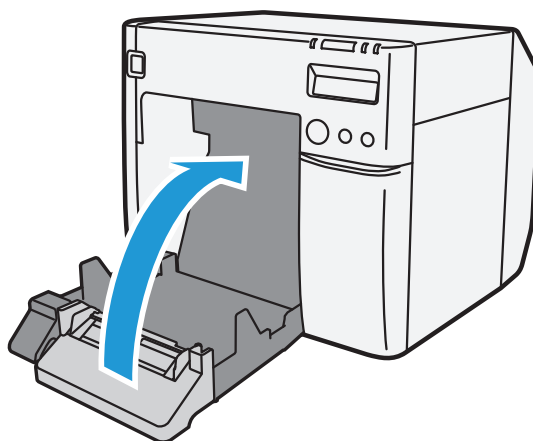


- 14** Refer to the shutter adjustment method label on the top of the printer, and open or close the shutters on the platen to match the width of the roll paper. If the shutter is set incorrectly, paper may be jammed or get dirty.

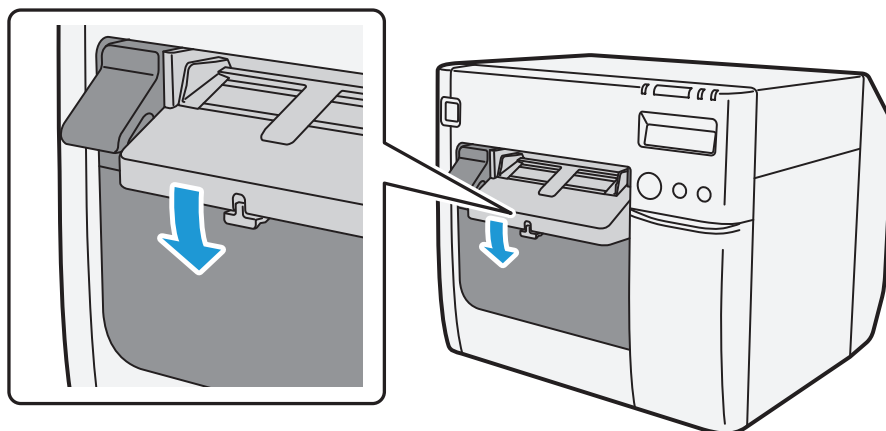


Paper/backing width (mm)	Shutter open/close status
30 mm {1.18"} or more, less than 62 mm {2.44"}	Close all shutters.
62 mm {2.44"} or more, less than 79 mm {3.11"}	Open only the most inward shutters.
79 mm {3.11"} or more, less than 97 mm {3.82"}	Open only the 2 most inward shutter rows.
97 mm {3.82"} or more, less than 112 mm {4.41"}	Open only the 3 most inward shutter rows.
112 mm {4.41"}	Open all shutters.

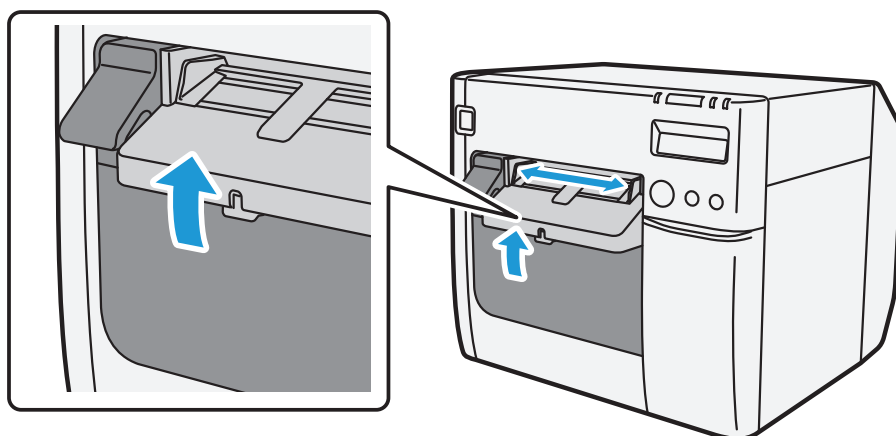
- 15** Close the roll paper cover.



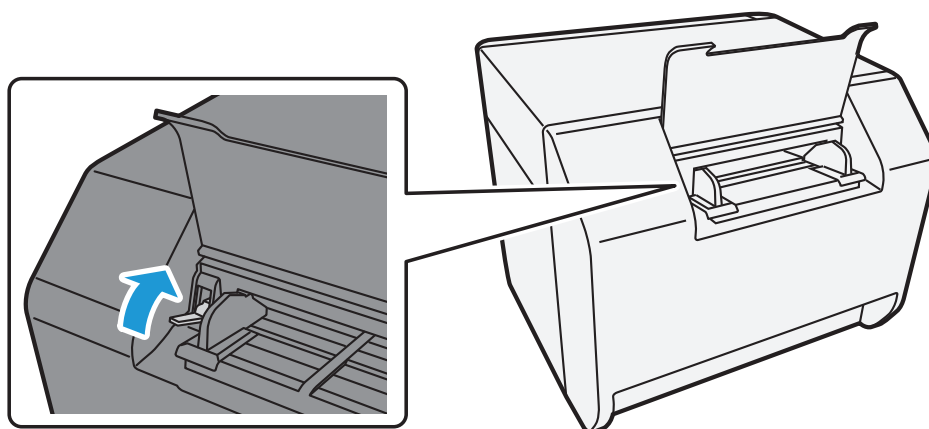
**16** Release the lock of the paper ejection guide with a fine-tipped tool.



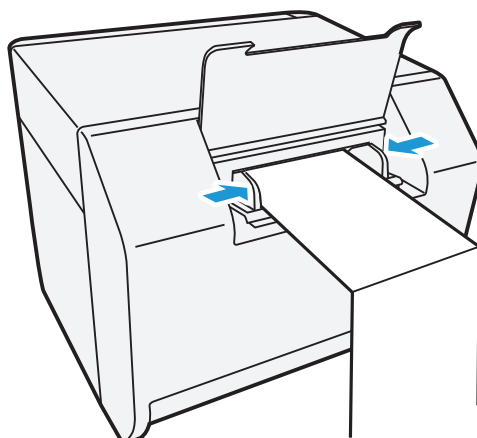
**17** Slide the paper ejection guide to the very left end, and lock it.



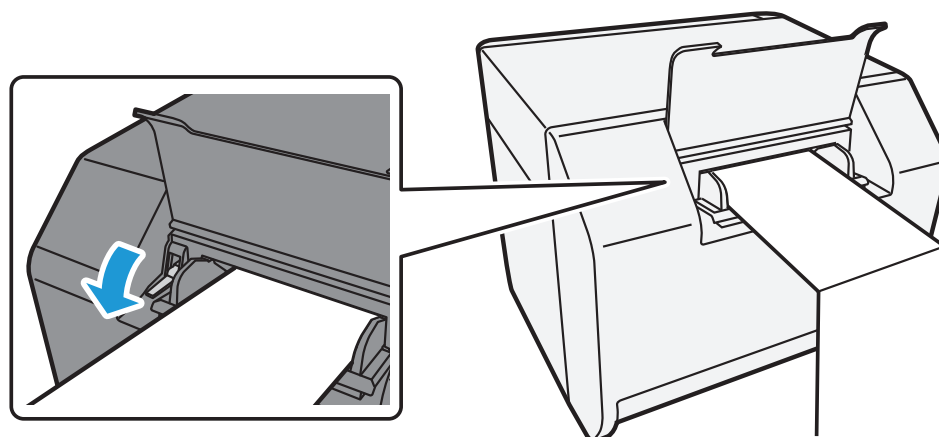
**18** Open the cover at the back of the printer, and unlock the fanfold paper guide.



**19** Adjust the fanfold paper guide to the fanfold paper width.



**20** Lock the fanfold paper guide.

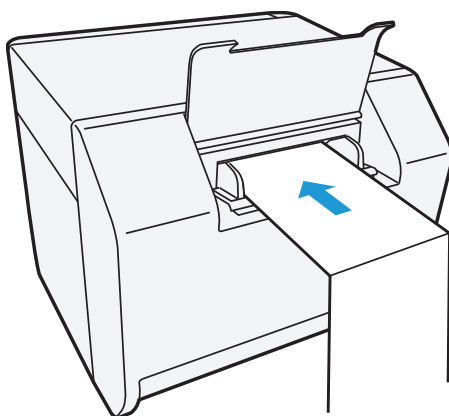


**21** Turn the printer ON.

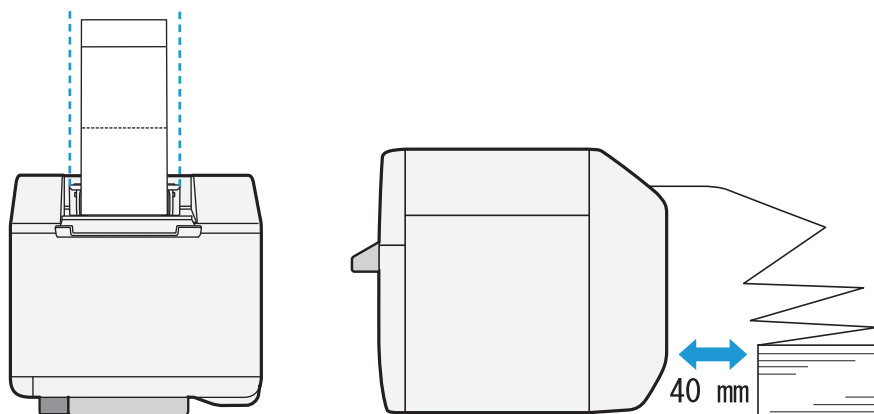
- 22** Insert the fanfold paper into the paper slot, facing the print surface upward. Insert the paper until it is pulled into inside the printer (approximately 100 mm {3.94"}). The printer detects the edge of the fanfold paper, pulls it inside, and then starts feeding it to the print starting position.

**NOTE**

When "Paper loading at roll paper cover close" is set to "With cutting", the paper is automatically cut after fed. (See ["Paper Loading Settings" on page 156.](#))



- 23** Place the stack of fanfold paper straight at least 40 mm {1.57"} away from the back of the printer.

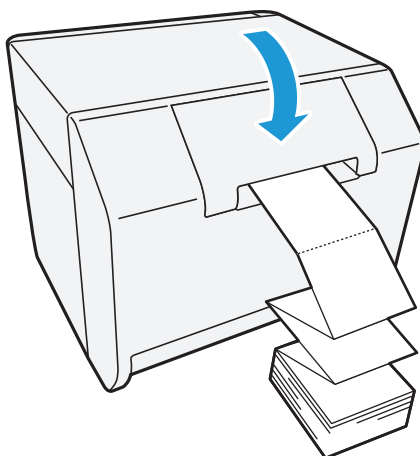




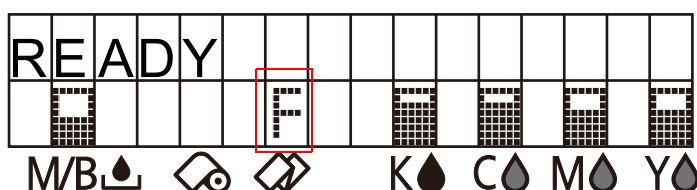
## 24 Close the fanfold paper cover.

### CAUTION

- To prevent liquid and dust from getting into the printer, keep the fanfold paper cover closed when using the printer.
- To prevent paper jams from occurring, insert fanfold paper into the fanfold paper slot on the back of the printer with the roll paper cover closed.



## 25 Confirm that the LCD displays an "F".

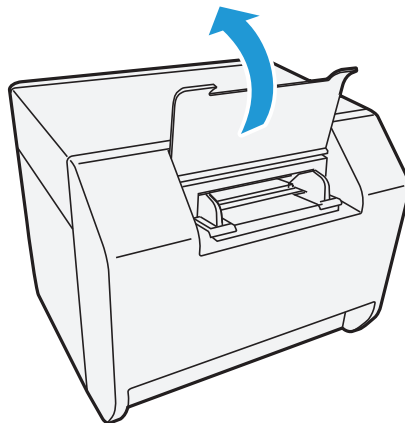


This is the end of loading of the fanfold paper.

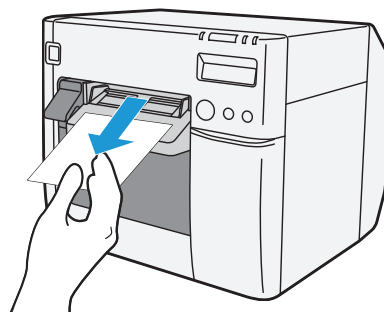
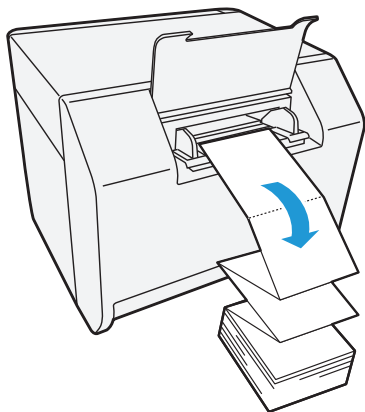
## Replacing Fanfold Paper with Roll Paper

Follow the steps below to replace the fanfold paper with roll paper.

- 1 Open the fanfold paper cover at the back of the printer.

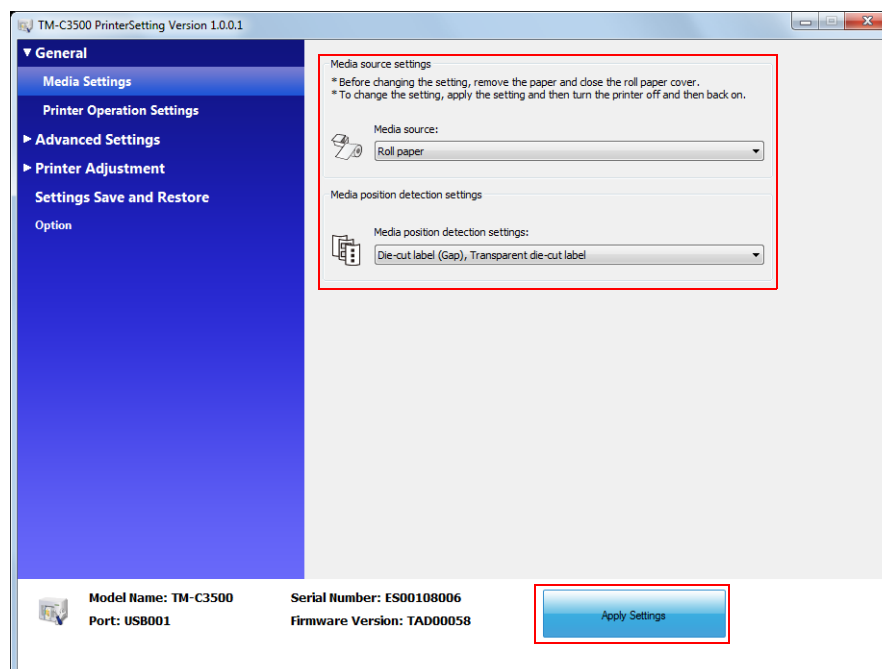


- 2 Remove the used fanfold paper.



- 3 Turn the printer ON.
- 4 Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))
- 5 Display TM-C3500 PrinterSetting. Select (Maintenance And Utilities) tab and click (Printer Preferences) - (Printer Setting).

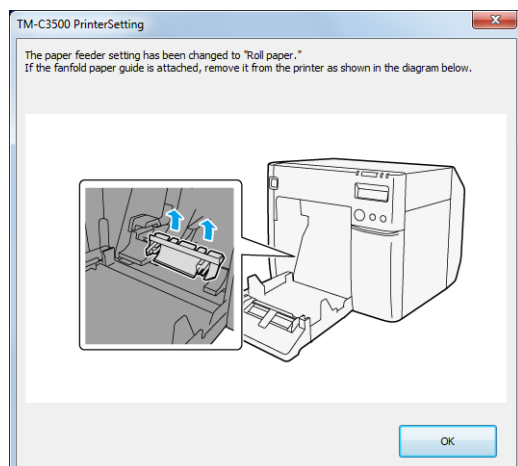
- 6** From TM-C3500 PrinterSetting, specify the media source and the media position detection method. Then, click (Apply Settings).  
After setting [Media source], set [Media position detection settings].



Item	Description
Media source	Select (Roll paper).
Media position detection settings	Select the media type. <ul style="list-style-type: none"> <li>• Full-page label, Continuous paper, Transparent full-page label</li> <li>• Die-cut label (BM)</li> <li>• Black mark continuous paper</li> <li>• Die-cut label (Gap), Transparent die-cut label</li> </ul>

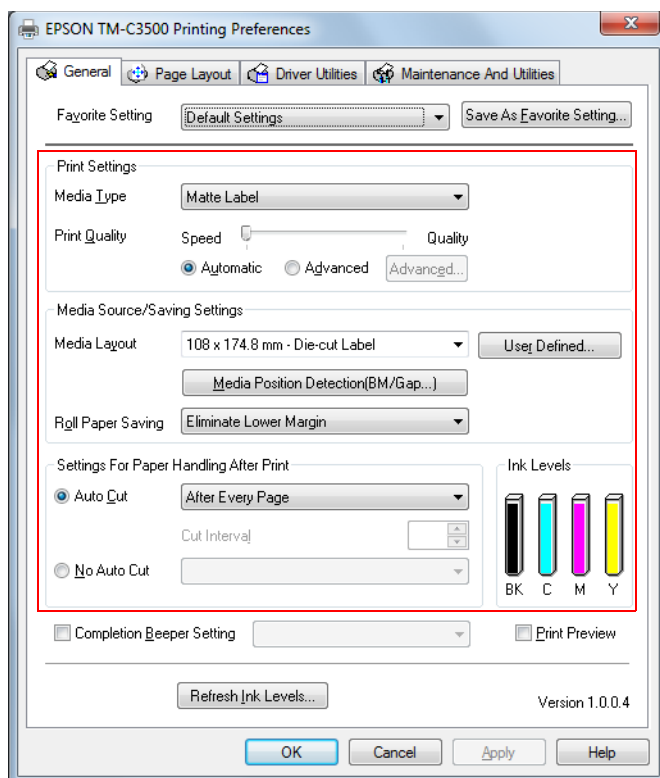
**7** The confirmation window appears. Click (Yes) to send the settings to the printer.

**8** The following window appears. Click (OK).



**9** The completion window appears. Click (OK).

**10** On the printer driver window, select (General) tab. Specify the media settings and click (OK).



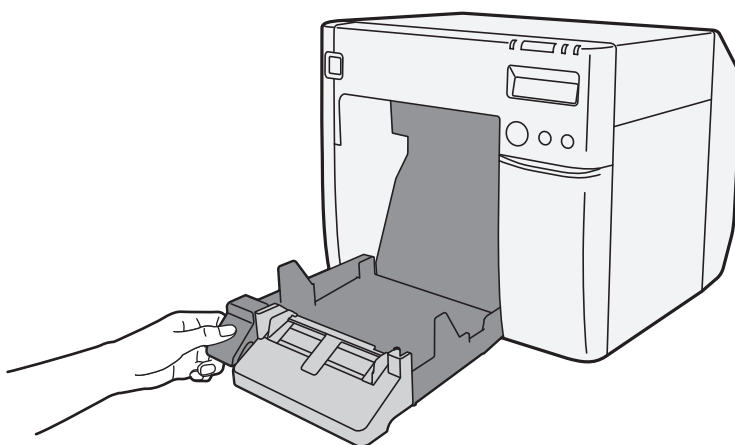
Item		Description
Print Settings	Media Type	Select the media type.
	Print Quality	Select the print quality.
Media Source/Saving Settings	Media Layout	Select the media layout. If the media layout to be used is not included in the list, create a new layout. See the <a href="#">"Registering the Media Layout" on page 78.</a>
Settings For Paper Handling After Print	Auto Cut	Select this to enable autotcut after printing.
	No Auto Cut	Select this to disable autotcut after printing.

## 11 Turn the printer OFF.

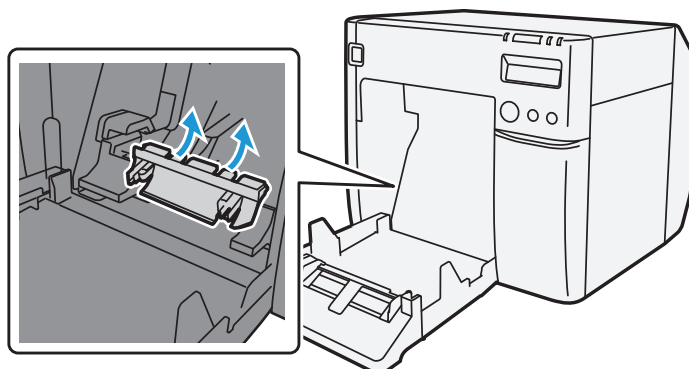
### CAUTION

Changes in the media position detection settings are saved in the memory in the printer when the printer is turned off.

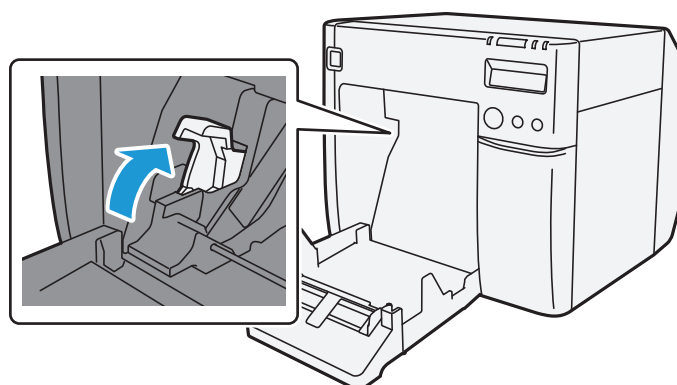
## 12 Press down the release lever, and pull it to the front to open the roll paper cover.



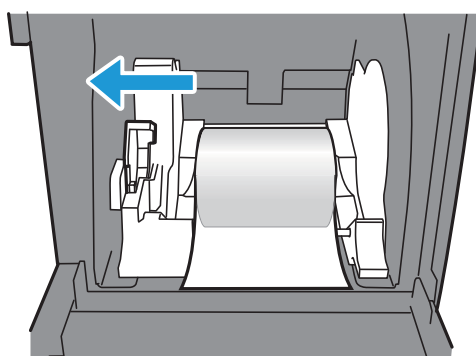
**13** Remove the paper feed guide for fanfold paper.



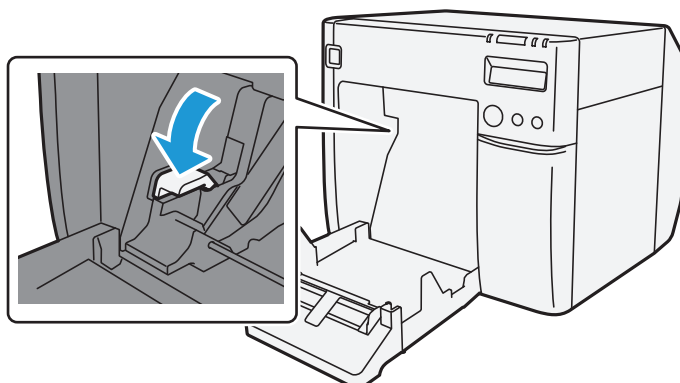
**14** Unlock the roll paper cover.



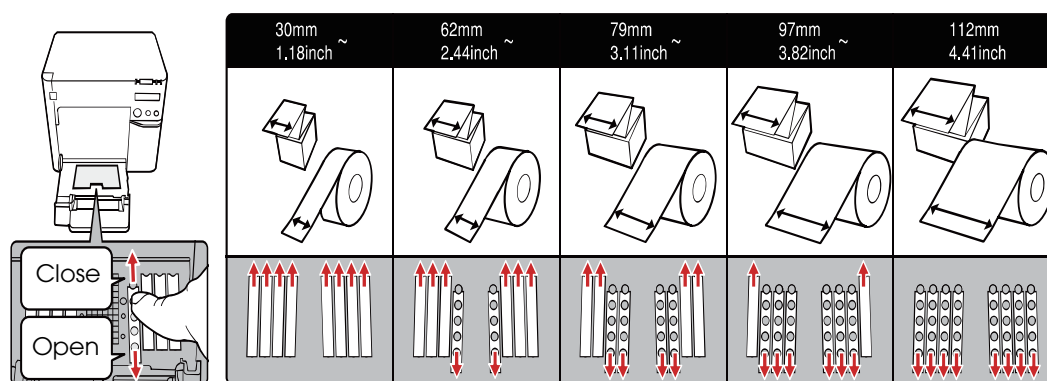
**15** Move the left paper guide toward the direction of the arrow in the illustration below, and insert the roll paper all the way in with the print surface facing upward.



## 16 Lock the roll paper guide.

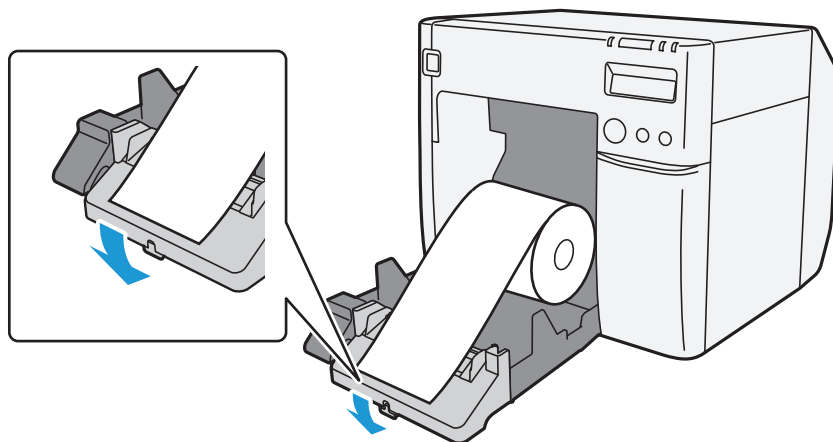


## 17 Refer to the shutter adjustment method label on the top of the printer, and open or close the shutters on the platen to match the width of the roll paper. If the shutter is set incorrectly, paper may be jammed or get dirty.

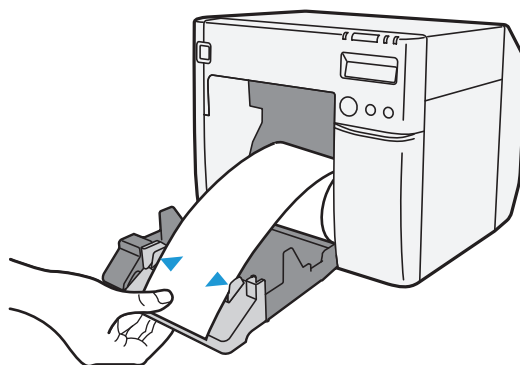


Paper/backing width (mm)	Shutter open/close status
30 mm {1.18"} or more, less than 62 mm {2.44"}	Close all shutters.
62 mm {2.44"} or more, less than 79 mm {3.11"}	Open only the most inward shutters.
79 mm {3.11"} or more, less than 97 mm {3.82"}	Open only the 2 most inward shutter rows.
97 mm {3.82"} or more, less than 112 mm {4.41"}	Open only the 3 most inward shutter rows.
112 mm {4.41"}	Open all shutters.

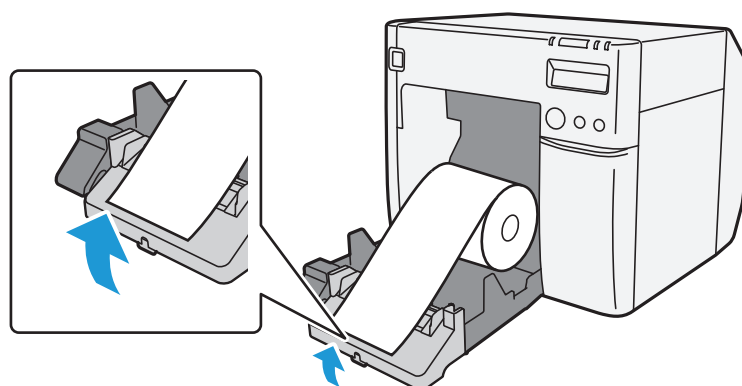
**18** Release the lock of the paper ejection guide with a fine-tipped tool.



**19** Adjust the paper ejection guide to the roll paper width.



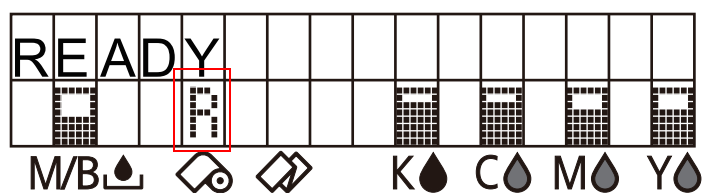
**20** Lock the paper ejection guide and close the roll paper cover.



**21** Turn the printer ON. After this, the printer feeds the paper automatically to remove any slack in the roll paper.



**22** Confirm that the LCD displays an "R".



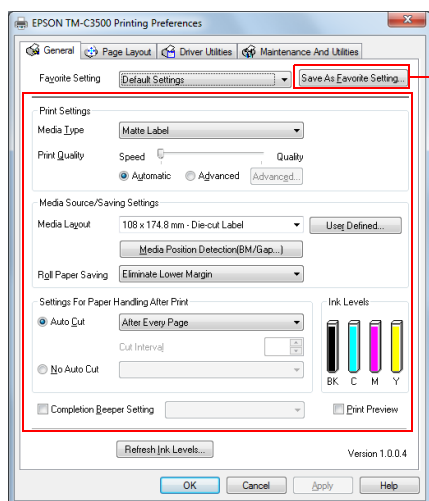
This is the end of loading of the roll paper.

# Setting the Printer Driver

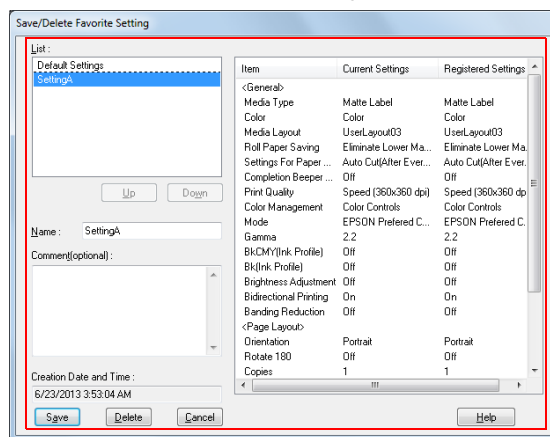
## Favorite Setting

[Favorite Setting] is the function to administer print setting of the printer driver into one. The setting from (Main) and (Page Layout) tab such as Media Type, Media Layout (including User Defined Media) are included.

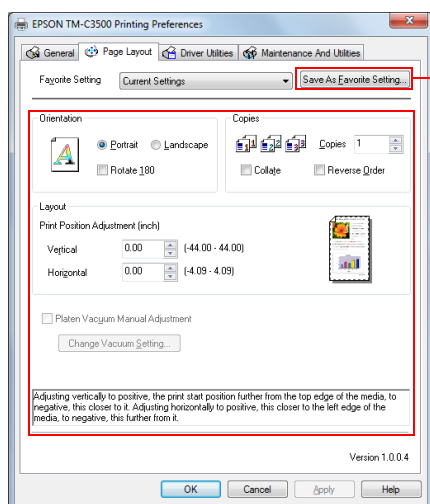
(Main) tab



Favorite Setting



(Page Layout) tab



---

## Features

- When printing from application, the print setting registered on (Favorite Setting) can be selected as default setting.

It is recommended to register the setting in favorite setting after executing print setting by clicking (Save As Favorite Setting).

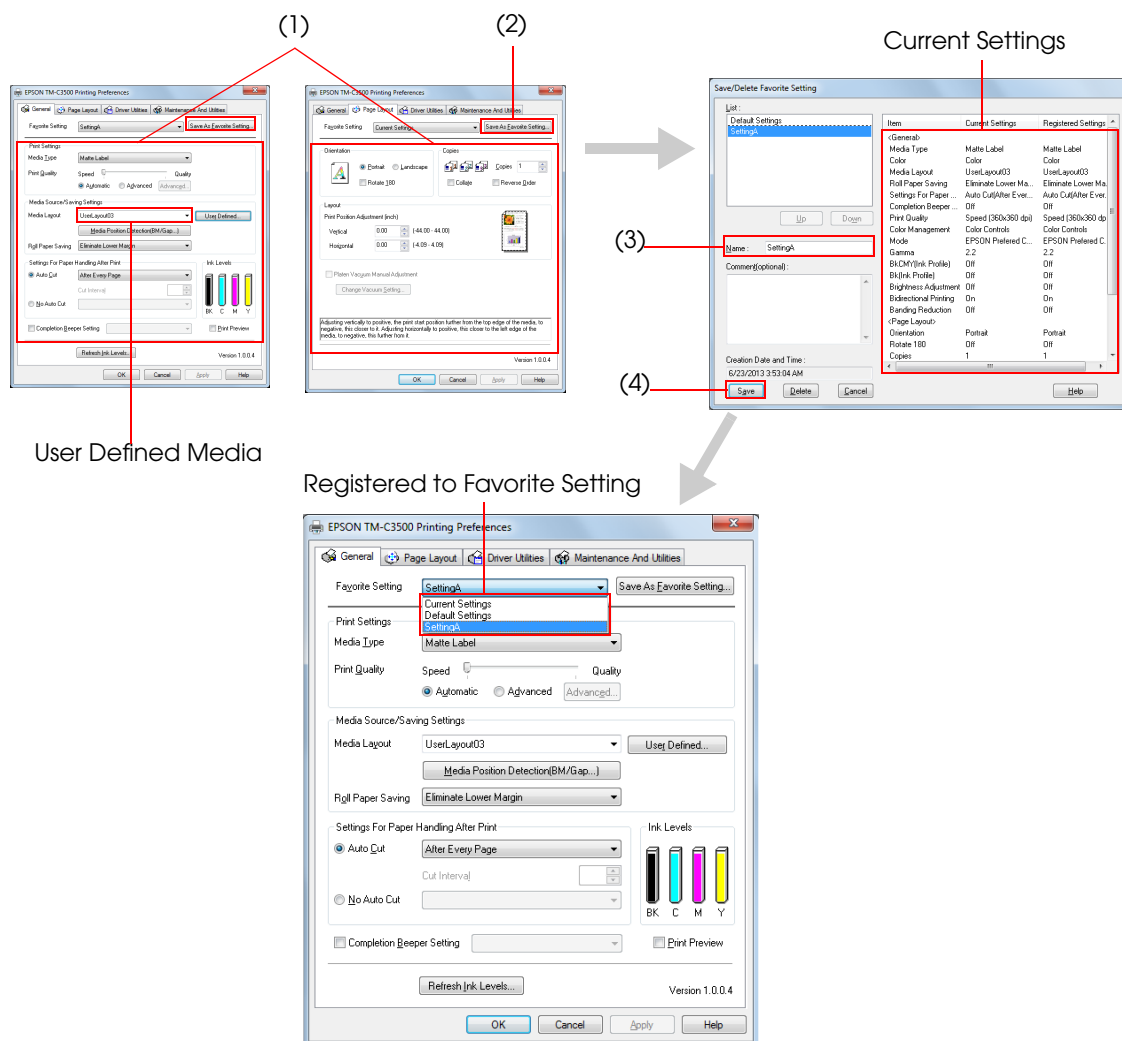
- A number of setting can be registered on (Favorite Setting).

For example, if the print setting is registered on (Favorite Setting) for each document, the print setting can be completed by changing (Favorite Setting) when the document is changed. This prevents an error of setting change when changing the paper.

(It is necessary to change Media position detection of the printer when the document is changed.)

## Registering print setting on (Favorite Setting)

- 1 Set the printer driver depending on paper to print.  
Set settings on (Main) and (Page Layout) tab. Select from Media Layout when using User Defined Media.
- 2 Click (Save As Favorite Setting) to display (Save/Delete Favorite Setting).  
The current setting will be displayed on the list of the right side.
- 3 Enter print name.
- 4 Click (Add).  
Print setting will be registered on (Favorite Setting).



[Favorite Setting] includes the following setting.

- Default Settings: The default setting when installing the printer driver.
- Current Settings: The contents set on (Main) and (Page Layout) tab.  
These contents are displayed in the current settings on (Current Setting) and (Save/Delete Favorite Setting) window.
- User Defined Setting: The print setting defined by the user.

### Information for User Definition

The user definition includes the following.

- User Defined Media
- Registering barcode font
- Replacing font on .NET environment

The user definition is set on each client computer. When a number of TM-C3400 printer drivers are installed in one computer, these are used mutually.

### Exporting/Importing Printer Driver Settings

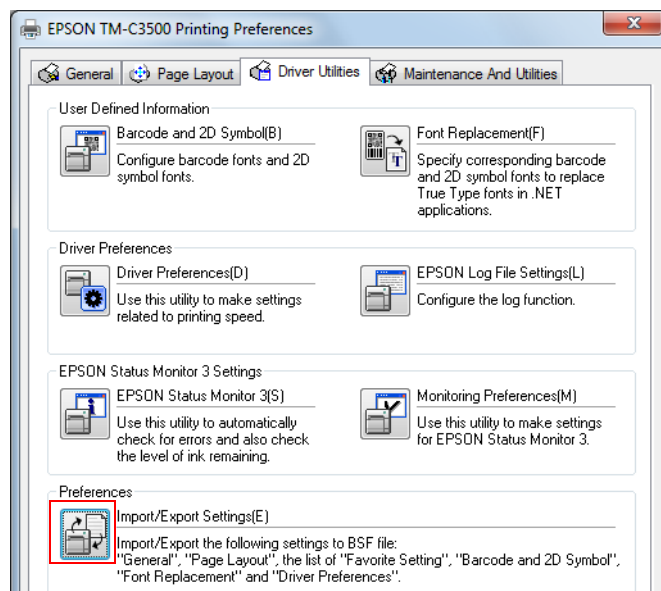
You can export the printing references, favorite setting, user-defined information and printer driver operation settings into a BSF file (extension of ".BSF"). You can also import the settings from a BSF file to set up the printer driver.

---

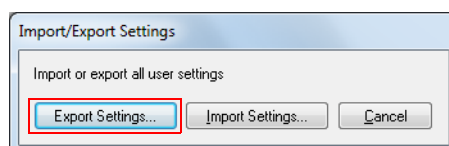
## Export Settings

Follow the steps below to export the settings.

- 1 Select (Driver Utilities) tab. Click (Import/Export Settings).



- 2 "Import/Export Settings" window appears. Click (Export Settings).



- 3 The window to save a file appears. Specify a name and save the BSF file.
- 4 The process completion window appears. Click (OK).

---

## Import Settings

Follow the steps below to import the settings.

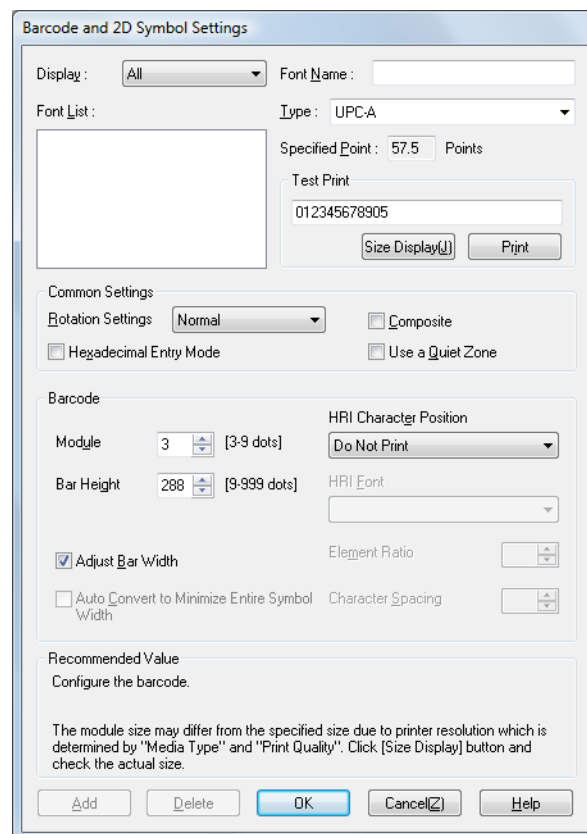
- 1** Select (Driver Utilities) tab. Click (Import/Export Settings).
- 2** "Import/Export Settings" window appears. Click (Import Settings).
- 3** The confirmation window appears. Click (OK).
- 4** The window to open a file appears. Select the file to be imported.
- 5** The process completion window appears. Click (OK).

## Barcode Printing

The printer driver has the built-in barcode font. Barcode printing is available if the barcode is not created on the application side.

### Setting the barcode font

Barcode print settings can be changed on **[Barcode and 2D Symbol]** on **[Driver Utilities]** tab.



#### 1 Change settings of the following.

- Display: Select **[Barcodes]**.
- Font Name: Input an arbitrary character string. ASCII characters only.



- **Type:** Select a barcode type from the following. The displayed items are changed accordingly.

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

- **Rotation Settings:** Select a setting when printing the barcode rotated by the specified rate.
- **Hexadecimal Entry Mode:** Turn on the check box when the data for barcode is specified on Hexadecimal Entry Mode.
- **Composite:** Turn on the check box to print barcode with a composite symbol.



Separate the data specified to a composite symbol and a barcode with “\|” or “|\\”. Describe the data in the order of the composite symbol and the barcode.  
Example: 1234567890\|012345678905

- **Use a Quiet Zone:** Leaves a blank margin around barcodes.



The barcode printing position is moved based on the amount of margin.

- **Module:** Sets the thin element width in dots.

Category	Graphic resolutions (Horizontal x vertical) (dpi)	Print direction *1	Adjust Bar Width *2	Upper Line: Minimum Module (by 360 dpi) Lower Line: Minimum Element Ratio		
				ANSI Grade D or higher	ANSI Grade C or higher	ANSI Grade B or higher
Plain, Plain label	360 x 360	Fence	Required	4 dot 2.5	-	-
		Ladder		6 dot 2.5	-	-
Synthetic label Matte Matte label Glossy label Wristband	360 x 360	Fence		3 dot 2.5	4 dot 2.5	
		Ladder		6 dot 2.5 (*3)	- (*3)	-
	720 x 360	Fence		3 dot 2.5	4 dot 2.5	
		Ladder		6 dot 2.5 (*3)	- (*3)	-

- : Not supported

- \*1: In some cases, dot missing and irregularity in ink shots may occur when printing ladder barcodes, lowering the ANSI grade to F and making barcodes unrecognizable. Therefore, fence barcodes are recommended to use. To use ladder barcodes, make consideration such as printing HRI characters.
- \*2: Ink may penetrate the paper due to its characteristics, and bars of printed barcodes tend to become thicker. This tendency is more prominent with some papers. To maintain the barcode recognition rate, use methods such as reducing the data in a bar by 1 pixel and increasing the blank space by 1 pixel (Bar width adjustment). However, do not apply this method to 2-dimensional symbols.
- \*3: By the combination of the specific paper type and the Symbol, the following conditions are available.
- Wrist Band & Code128 : Element = 5 dots (D-grade)
- Wrist Band & Codabar : Element = 5 dots,  
Element ratio = 2.5 (C-grade)

- **Bar Height:** Sets the element height with dots. Specified dots indicate the actual print size.
- **Adjust Bar Width:** Narrows the element width when printing. Make sure to select it only when the barcode is not clear enough to be read.
- **HRI Character Position:** Select the position of the HRI characters. Select [**Do Not Print**] when not printing.

**NOTE**

The printing position is limited for some types.

- **HRI Font:** Select the HRI character font size.
- **Element Ratio:** Sets the thick element width by the ratio to the thin element width.
- **Character Spacing:** Sets the character spacing (interval) by the ratio to the thin element width.
- **Auto Convert to Minimize Entire Symbol Width:**  
Selectable when CODE128 is specified. This function minimizes the number of symbol characters required to express the given data string.

## 2 Click (**Add**).

The selected barcode font is saved and the font name is added to the font list.

**NOTE**

- The barcode font can be registered up to 30.
- The barcode font setting can be overwritten by clicking [Save] after selecting the font name from the font list and changing the setting.
- The barcode font setting can be deleted by clicking [Delete] after selecting the font name from the font list.
- Test print is executed according to the setting by clicking [Print] after inputting the text in the box.

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## Specifying the barcode data

Specify the barcode data by referring to the following descriptions.

About the composite symbol:

The composite component type is selected automatically depending on the digit number of the data. (CC-C is selected only when GS1-128 is set.)

Composite Component Type	Encodable Digit Number
CC-A	1 ~ 56 digits
CC-B	1 ~ 338 digits
CC-C	1 ~ 2361 digits

About the HRI character:

When the total width of the HRI character is larger than that of the barcode, the HRI character width is set as the barcode width.

### UPC-A

#### ☐ Normal

- Specify the data of 11 to 12 digits.
- The first digit is an unchecked number system character.
- For data of 11 digits, a check digit is automatically added.
- For data of 12 digits, the 12th digit is regarded as a check digit, but not proved.

#### ☐ Composite (difference from Normal)

- For data of 12 digits, the 12th digit is ignored, and a check digit is automatically added.

### UPC-E

#### ☐ Normal

- Specify the data of 11 to 12 digits.
- For data of 6 digits, the specified data is not changed, and a check digit is automatically added.
- For data of 7 digits, the 2nd to 7th digits become the data characters, and a check digit is automatically added.
- For data of 8 digits, the 2nd to 7th digits become the data characters, and the 8th digit is regarded as a check digit, but not proved.
- For data of 11 digits, a check digit is automatically added.
- For data of 12 digits, the 12th digit is regarded as a check digit, but not proved.
- For data of 7 digits or more, specify "0" for the first digit, since it is regarded as a number system character.

❑ Composite (differences from Normal)

- For data of 8 digits, the 8th digit is ignored, and a check digit is automatically added.
- For data of 12 digits, the 12th digit is ignored, and a check digit is automatically added.

### JAN13(EAN)

❑ Normal

- Specify the data of 11 to 12 digits.
- For data of 12 digits, a check digit is automatically added.
- For data of 13 digits, the 13th digit is regarded as a check digit, but not proved.

❑ Composite (difference from Normal)

- For data of 8 digits, the 8th digit is ignored, and a check digit is automatically added.

### JAN8(EAN)

❑ Normal

- Specify the data of 7 to 8 digits.
- For data of 7 digits, a check digit is automatically added.
- For data of 8 digits, the 8th digit is regarded as a check digit, but not proved.

❑ Composite (difference from Normal)

- For data of 8 digits, the 8th digit is ignored, and a check digit is automatically added.

### Code39

❑ A maximum of 256 digits can be specified.

❑ When both or either one of start/stop code ("\*") is not specified, it is automatically added.

### ITF

❑ A maximum of 256 digits can be specified.

❑ When data of odd digit number is specified, "0" is automatically added to the head.

### Codabar

❑ A maximum of 256 digits can be specified.

❑ When the start code is not specified, 'A' is automatically added as a start code.

❑ When the stop code is not specified, the same value as a start code is added as a stop code.

❑ When the start/stop code is input in lower case letters, they are automatically converted into upper case letters.

## Code93

- Specify the data of 1 to 255 digits.
- A start code, 2 check digits, stop code is automatically added.
- A character (□) that indicates a start code is printed for the head of the HRI character.
- A character (□) that indicates a stop code is printed for the end of the HRI character.
- HRI characters of the control characters (00h ~1Fh, 7Fh) are printed combining '■' and an alphabetical character.

Control Character		HRI Character	Control Character		HRI Character	Control Character		HRI Character
ASCII	Hexa-decimal		ASCII	Hexa-decimal		ASCII	Hexa-decimal	
NULL	00	■U	VT	0B	■K	SYN	16	■V
COH	01	■A	FF	0C	■L	ETB	17	■W
STX	02	■B	CR	0D	■M	CAN	18	■X
ETX	03	■C	SO	0E	■N	EM	19	■Y
EOT	04	■D	SI	0F	■O	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	■C
BS	08	■H	DC3	13	■S	RS	1E	■D
HT	09	■I	DC4	14	■T	US	1F	■E
LF	0A	■J	NAK	15	■U	DEL	7F	■F

## Code128

- ❑ Specify the data of 2 to 255 digits.
- ❑ Specify either one of the code selection characters (CODE A, CODE B, CODE C) as a start code of the first 2 digits.
- ❑ A special character is indicated by combining '{' and the next character.
- ❑ When [Auto Convert to Minimize Entire Symbol Width] is checked, conversion is automatically performed so as to minimize the entire Code128 symbol width. With this function, there is no need to specify a code set; barcode printing can be performed simply by inputting data you want to convert into symbols.

When [Auto Convert to Minimize Entire Symbol Width] is unchecked, a code set must be manually specified. When code set C is specified, assume a generated two-digit number as an ASCII character decimal number and specify the corresponding ASCII character.

Example: 37": Specify as "%".

"65": Specify as "A".

"979899": Specify as "abc".

- ❑ When the character right after '{' is not any of the following, an error occurs.

Control Character	ASCII	Control Character	ASCII	Control Character	ASCII
SHIFT	{S	CODE C	{C	FNC3	{3
CODE A	{A	FNC1	{1	FNC4	{4
CODE B	{B	FNC2	{2	'{'	{{

- ❑ The HRI characters of the special character are described as below.

Control Character	HRI Character
SHIFT	Not printed
CODE A/B/C	Not printed
FNC1~ 4	Space is printed
Control character (00h ~1Fh, 7Fh)	Space is printed

## GS1-128

- ❑ Specify the data of 2 to 255 digits.
- ❑ '(' is the delimiter for the application identifiers. (printed as the HRI character, but not encoded.)
- ❑ The start codes (CODE A, CODE B, CODE C) and the stop code are added automatically.
- ❑ A symbol character FNC1, that is described after the start code, is automatically added.
- ❑ When '\*' is specified, a check digit is automatically calculated, and replaced with '\*'.
- ❑ 2 digits of consecutive numbers must be specified as the application identifier. If it is not specified correctly, an error occurs.
- ❑ When '(01)' is specified as the application identifier, the 14th digit becomes a check digit, however, it is not proved when the check digit is specified. When the 14th digit is '\*', the check digit is automatically calculated, and replaced with '\*'.
- ❑ A special character is indicated by combining '{' and the next character.
- ❑ When the character right after '{' is not any of the following, an error occurs.

Control Character	ASCII	HRI Character
Control Character (00h ~ 1Fh, 7Fh)		Space is printed.
FNC1	{1	Space is printed.
FNC3	{3	Space is printed.
'{'	{{	'{' is printed.
'('	{(	'(' is printed.
')'	{)	')' is printed.
'*'	{*	'*' is printed.
Left parenthesis for the application identifier	(	'(' is printed.
Right parenthesis for the application identifier	)	')' is printed.
Check digit position	*	Check digit is printed.



## GS1-128M

- ❑ Specify the data of 38 to 66 digits.
- ❑ '(' is the delimiter for the application identifiers. (printed as the HRI character, but not encoded.)
- ❑ The start codes (CODE A, CODE B, CODE C) and the stop code are added automatically.
- ❑ A symbol character FNC1, which is described after the start code, is automatically added.
- ❑ When FNC1 is not at the end of the data followed by the application identifier '(30)', FNC1 is automatically added.
- ❑ FNC1 must not be at the end of the data followed by the application identifier '(10)' or '(21)'. In this case, an error occurs.
- ❑ When '(01)' is specified as the application identifier, the 14th digit becomes a check digit, however, it is not proved when the check digit is specified. When the 14th digit is '\*', the check digit is automatically calculated, and replaced with '\*'.
- ❑ When the character right after '{' is not '1', an error occurs.
- ❑ Specify the special character as the following format.

Control Character	ASCII	HRI Character
FNC1	{1	Space is printed.
Left parenthesis for the application identifier	(	'(' is printed.
Right parenthesis for the application identifier	)	')' is printed.
Check digit position	*	Check digit is printed.

- ❑ An error occurs when the format identifiers do not meet the following condition.

Format Identifier	Format
01	Numbers of 14 digits
10	Alphanumerics of 1 ~ 20 digits
17	Numbers of 6 digits (YYMMDD)
21	Alphanumerics of 1 ~ 20 digits
30	Numbers of 1 ~ 8 digits

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

- ❑ The first application identifier '01' is not included in the data.
- ❑ When printing the HRI characters, the first application identifier '01' is printed as '(01)' before the packing identification code.
- ❑ A check digit need not to be attached to the barcode data.
- ❑ When printing the HRI character, a check digit is printed after a product code.
- ❑ For GS1 Databar Limited, specify '0' or '1' for the first digit.

## GS1 DataBar ExpandedM

- ❑ Specify the data of 38 to 66 digits that does not include '\*'.
- ❑ '(' is the delimiter for the application identifiers. (printed as the HRI character, but not encoded.)
- ❑ When FNC1 is not at the end of the data followed by the application identifier '(10)' or '(21)', FNC1 is automatically added.
- ❑ When FNC1 is not at the end of the data followed by the application identifier '(30)', FNC1 is automatically added.
- ❑ FNC1 must not be at the end of the data followed by the application identifier '(10)' or '(21)'. In this case, an error occurs.
- ❑ When '(01)' is specified as the application identifier, the 14th digit becomes a check digit. When the check digit is not correct, an error occurs.  
(Unlike GS1-128, the check digit is not automatically calculated, nor replaced with '\*'.)
- ❑ '\*' is skipped.
- ❑ When the character right after '{' is not '1,' an error occurs.
- ❑ Specify the special character using the following format.

Control Character	ASCII	HRI Character
FNC1	{1	Space is printed.
'('	{(	'(' is printed.
)'	{)}	)' is printed.
Left parenthesis for the application identifier	(	'(' is printed.
Right parenthesis for the application identifier	)	)' is printed.
'*'	{*	'*' is printed.
Skipped character	*	Not printed.

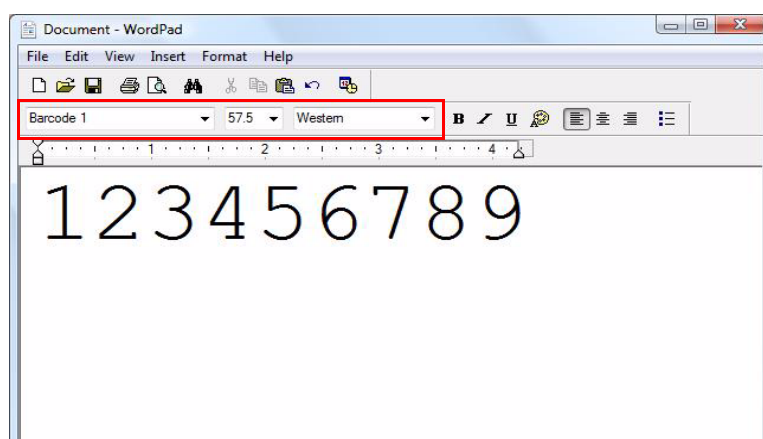
## GS1 DataBar Expanded

- ❑ Specify the data of 2 to 255 digits.
- ❑ '(' is the delimiter for the application identifiers. (printed as the HRI character, but not encoded.)
- ❑ Be sure to include all the application identifiers in the data.
- ❑ When the first data is '01' after deleting application identifiers, left and right parenthesis, and '\*' from the specified data, the 14th digit from the next of '01' is checked as a check digit. When it is not correct, an error occurs.
- ❑ When the next data of '01' is fewer than 14 digits, a check digit is not checked.  
(Unlike GS1-128, the check digit is not automatically calculated, nor replaced with '\*.' When '\*' is specified, '\*' is ignored, and the rest of the data is shifted by 1 digit.)
- ❑ Specify the special character using the following format.

Control Character	ASCII	HRI Character
FNC1	{1	Space is printed.
Left parenthesis for the application identifier	(	'(' is printed.
Right parenthesis for the application identifier	)	') is printed.
'*'	{*	Error
Skipped character	*	Not printed.

## Printing method

Specify the selected barcode font, specified point and language to the printing data, and then print it.



### CAUTION

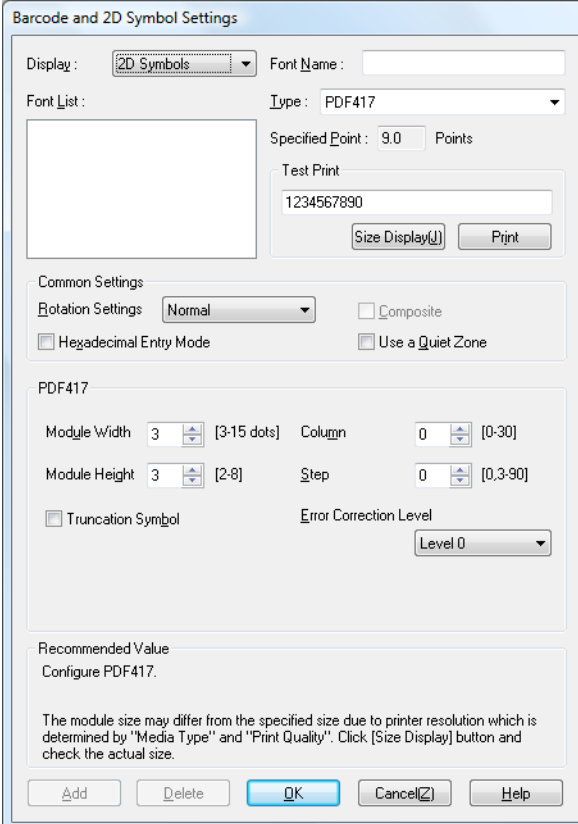
The font size of the barcode can not be changed by [Specified Point] value. The barcode is not printed when other values are selected.

## 2D Symbol Font Settings

The printer driver has the built-in 2D symbol font. 2D symbol printing is available if the 2D symbol is not created on the application side.

### Setting the 2D Symbol font

2D symbol printing settings can be changed on [**Barcode and 2D Symbol**] on [**Driver Utilities**] tab.

The image shows a Windows-style dialog box titled "Barcode and 2D Symbol Settings". It is divided into several sections. The top section has a "Display:" dropdown menu set to "2D Symbols", a "Font Name:" text field, a "Font List:" empty list box, a "Type:" dropdown menu set to "PDF417", and a "Specified Point:" field set to "9.0 Points". Below these is a "Test Print" section with a text field containing "1234567890" and "Size Display(U)" and "Print" buttons. The "Common Settings" section includes a "Rotation Settings" dropdown set to "Normal", checkboxes for "Composite", "Hexadecimal Entry Mode", and "Use a Quiet Zone". The "PDF417" section contains settings for "Module Width" (3, range [3-15 dots]), "Column" (0, range [0-30]), "Module Height" (3, range [2-8]), "Step" (0, range [0.3-90]), a checkbox for "Truncation Symbol", and an "Error Correction Level" dropdown set to "Level 0". At the bottom, there is a "Recommended Value" section with the text "Configure PDF417." and a disclaimer about module size differences. The dialog ends with "Add", "Delete", "OK", "Cancel(Z)", and "Help" buttons.

#### 1 Change settings of the following.

- Display: Select [**2D Symbols**].
- Font Name: Input an arbitrary character string. ASCII characters only.
- Type: Select a 2D symbol type. The displayed items are changed accordingly.
- Rotation Settings: Select a setting when printing the 2D symbol rotated by the specified rate.

- **Hexadecimal Entry Mode:** Turn on the check box when the data for 2D symbol is specified on Hexadecimal Entry Mode.
- **Composite:** Turn on the check box to print the 2D symbol with a composite symbol.



Separate the data specified to a composite symbol and a 2D symbol with “\|” or “| \”. Describe the data in the order of the composite symbol and the 2D symbol.  
Example: 1234567890\|012345678905

- **Use a Quiet Zone:** Leaves a blank margin around 2D symbols.



The 2D symbol printing position is moved based on the amount of margin.

## 2 Make settings of the following items according to the selected (Type).

### • PDF417

- \*Module Width: Makes settings of the module width for PDF417.
- \*Module Height: Makes settings of the module height for PDF417 by the ratio to the module width.
- \*Column: Input the number of columns for PDF417.
- \*Step: Enter the number of steps for PDF417.
- \*Truncation Symbol: Turn on this check box when making a symbol without the stop code.
- \*Error Correction Level: Select an error correction level for PDF417. The data can be read even if the part of the symbol is broken, and restoration ratio becomes higher for bigger numbers.

### • QRCode

- \*Model: Select a QRCode model.
- \*Module: Select the width of cell (module) for QRCode.
- \*Version: Specify the version for QRCode. The number of characters that can be converted into 2D symbols is different depending on the version of QRCode.
- \*Error Correction Level: Select an error correction level for QRCode. The data can be read if the part of the symbol is broken and restoration ratio becomes higher in the order of level L, M, Q, H.
- \*Characters: Enter the number of QRCode digits.

### • MaxiCode

- \*Mode: Select a MaxiCode mode. Turn on the check box of [**Hexadecimal Entry Mode**] when selecting [**Mode 2**] or [**Mode 3**].

### • GS1 DataBar

- \*Module: Sets the module width for GS1 DataBar.
- \*Num Of Chars: Sets the maximum width for GS1 DataBar.

- AztecCode

- \*Type:

Select a mode for AztecCode.

- \*Number of Layers:

Select the number of layers for AztecCode.

**[Minimize]:** Optimize the minimum number of layers automatically.

**[Specify the Size]:** Change the number of layers specified by the value in the input box.

- \*Cell Size:

Sets the cell (module) size for AztecCode.

- \*Error Correction Area:

Specify the error correction area of AztecCode using of either the following. The data can be read even if the part of the symbol is broken, and restoration ratio becomes higher for bigger numbers.

**[Default Value]:** Default value is 23%+3 code words.

**[Specify a Percentage]:** Specify the error correction area with a percentage value in the input box.

- DataMatrix

- \*Cell Size:

Makes settings of the cell (module) size for DataMatrix.

- \*Number of Cells:

Makes settings of the number of cells for DataMatrix.

**[Minimize]:** Optimize the minimum number of cells automatically.

**[Specify the Size]:** Change settings to the selected size.

- DataMatrix(Rectangle)

- \*Cell Size:

Makes settings of the cell (module) size for DataMatrix.

- \*Number of Vertical Cells:

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

- \*Number of Horizontal Cells:

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

**[Minimize]:** Optimize the minimum number of cells automatically.

**[Specify the Size]:** Change settings to the selected size.

□ The following table shows the recommended value for the 2D symbol module.

- Recommended value for setting the barcode/2D symbol font (2D symbol of stack type) (PDF417, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked)

Category	Graphic resolutions (Horizontal x vertical) (dpi)	Print Status (*1)	Adjust Bar Width (*2)	Minimum Module (by 360 dpi)		
				ANSI Grade D or higher	ANSI Grade C or higher	ANSI Grade B or higher
Plain, Plain label	360 x 360	No Paper feed	3	6 dot	-	-
		With Paper feed		6 dot	-	-
Synthetic label Matte	360 x 360	No Paper feed		4 dot	-	-
		With Paper feed		4 dot	-(*)	-
Matte label Glossy label Wristband	720 x 360	No Paper feed		4 dot	-	-
		With Paper feed		4 dot	-(*)	-

- : Not supported.

\*1 : Whether paper feed is performed during printing 2D symbol can be checked in [**Display Media Feed Position**] - [**Display Print Preview**] in the Print Preview function. For this function, see "[Print Preview](#)" on page 145.

\*2: Specify when using PDF417.

- Recommended value for setting the barcode/2D symbol font (2D symbol of matrix type) (AztecCode, QRCode)

Category	Graphic resolutions (Horizontal x vertical) (dpi)	Print Status (*1)	Minimum Cell Size (by 360 dpi)		
			ANSI Grade D or higher	ANSI Grade C or higher	ANSI Grade B or higher
Plain, Plain label	360 x 360	No Paper feed	6 dot	-	-
		With Paper feed	8 dot	-	-
Synthetic label Matte Matte label Glossy label Wristband	360 x 360	No Paper feed	5 dot	6 dot (*2)	
		With Paper feed	6 dot	7 dot	-
	720 x 360	No Paper feed	5 dot	6 dot (*2)	
		With Paper feed	6 dot	7 dot	-

- : Not supported.

\*1 : Whether paper feed is performed during printing 2D symbol can be checked in [**Display Media Feed Position**] - [**Display Print Preview**] in the Print Preview function. For this function, see "[Print Preview](#)" on page 145.

\*2: Only QRCode is confirmed.

### 3 Click (**Add**).

The selected 2D symbol font is saved and the font name is added to the font list.

#### NOTE

- The 2D symbol font can be registered up to 30.
- The 2D symbol font setting can be overwritten by clicking [Save] after selecting the font name from the font list and changing the setting.
- The 2D symbol font setting can be deleted by clicking [Delete] after selecting the font name from the font list.
- Test print is executed according to the setting by clicking [Print] after inputting the text in the box.



## Specifying the 2D symbol data

See the following description to specify the 2D symbol data.



For the composite symbol and the HRI character, see ["Specifying the barcode data" on page 128.](#)

### PDF417

- ☐ Calculated automatically when the digit number and the line number are 0.
- ☐ To specify other number than 0, make sure the multiplication of the digit number and the line number is under 928.

### QRCode

- ☐ Size is determined by the specified version. If it does not fit in the specified version, it is changed automatically to the appropriate version.

### MaxiCode

- ☐ For Mode2 and Mode3, the header and the second message are omissible.
- ☐ Specify the special character as the following format.

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

### GS1 DataBar Stacked /GS1 DataBar Stacked Omnidirectional

- ☐ Up to 13 digits of data can be specified.
- ☐ Do not specify the application identifier '01' for the head of the data.
- ☐ A check digit need not to be attached to the data.

### GS1 DataBar Expanded Stacked

- ☐ Multiple line symbol version of GS1 Databar Expanded. How to specify the data is the same as GS1 Databar Expanded. (For details, see ["GS1 DataBar Expanded" on page 135.](#))

## AztecCode

- ❑ Supports the full range mode and the compact mode.

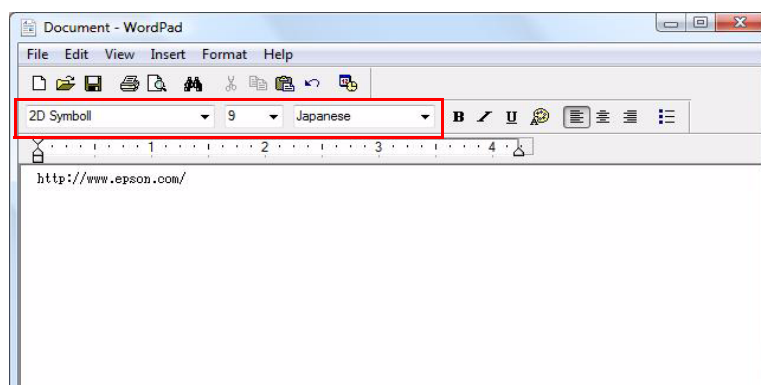
## DataMatrix

- ❑ Supports the ECC200 versions - square and rectangular.

---

## Printing method

Specify the selected 2D symbol font, specified point and language to the printing data, and print it.



### CAUTION

The font size of the 2D symbol can not be changed by [Specified Point] value.  
The 2D symbol is not printed when other values are selected.

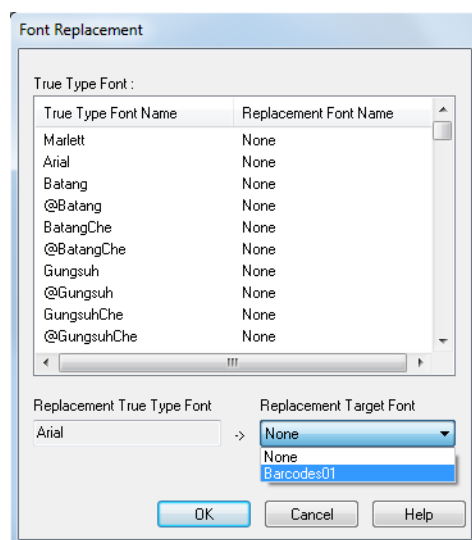
## Barcode and 2D Symbol Font Printing on .NET Environment

Since .NET Framework supports only True Type font and Open Type font, the barcode and 2D symbol font which are registered in the printer driver can not be printed from the application. Therefore, True Type font is replaced with barcode and 2D symbol font by using font replacement function of the printer driver. Barcode and 2D symbol fonts can be printed from the application under .NET Framework environment by this replacement function.

The name of the print data in the application remains as True Type font name, but changes to barcode and 2D symbol font when it is printed.

### Font Replacement

Font Replacement is executed from **(Font Replacement)** on **(Driver Utilities)** tab.



#### 1 Make the following setting.

- True Type font to be replaced
  - \* Select [True Type Font].
- Font to replace
  - \* Select barcode and 2D symbol font to replace.

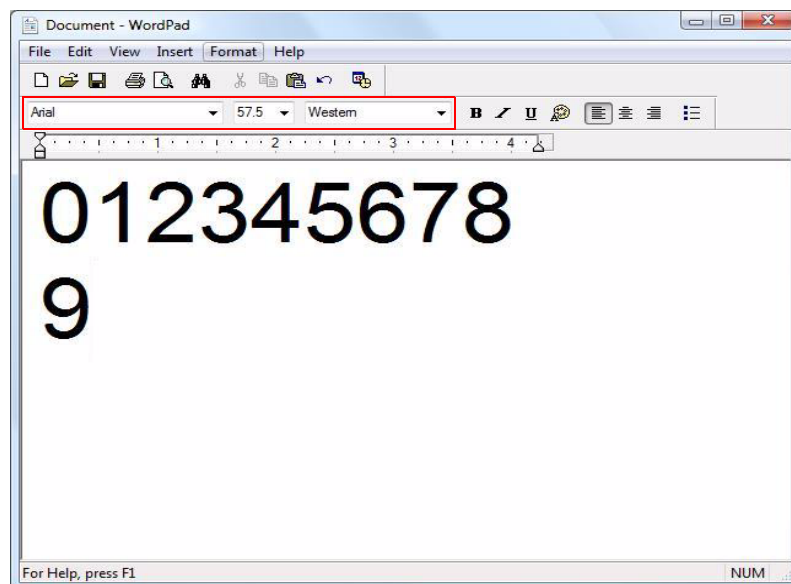
#### 2 Click (OK).

True Type font is replaced by barcode and 2D symbol font.

---

## Printing barcode and 2D symbol

Sets specified number of point, language of the replaced True Type font by barcode and 2D symbol font to the print data.



### NOTE

- The number of point for barcode and 2D symbol is specified, check it from [Barcode and 2D Symbol] on [Driver Utilities]. The barcode and 2D symbol can not be printed if a value other than those specified is set.
- The replaced True Type font can be used only for specifying barcode and 2D symbol, therefore, if the character other than specified is used can not be printed. Make sure to use True Type font that is not be used for other printing.

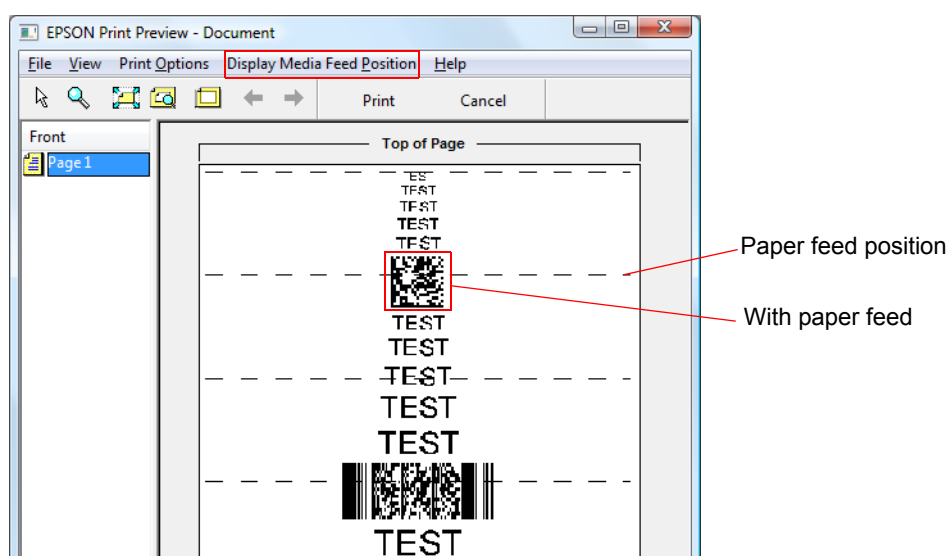
## Print Preview

If this function is checked, the print preview window is displayed when printing is performed from an application, allowing you to check the print result image before printing.

Displays the print preview before printing if this check box is turned on.

### NOTE

To improve 2D symbol scanning accuracy, we recommend no paper feed during 2D symbol printing.



The following items can be set in [Display Media Feed Position].

Setting		Specification
Display Media Feed Position	Display Print Preview	Displays the media feed position on the print preview window. The default is set as "Display".
	Print Media Feed Position	Prints the media feed position. The default setting is set as "Not print".

## Notification Settings

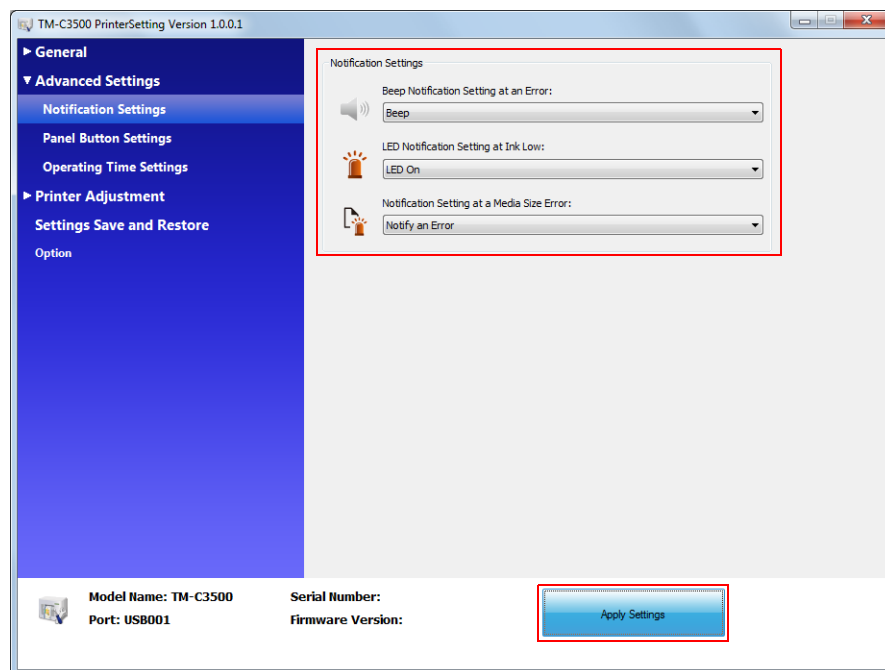
Sets following notification setting.

- **Beep Notification Setting at an Error**  
Selects beep notification (sounds buzzer or not) when error occurs. (Default setting is (Beep). The user does not need to change when using with default setting.)
- **LED Notification Setting at Ink Low**  
Selects LED notification (lights LED or not) when ink level is low. (Default setting is (LED On). The user does not need to change when using with default setting.)
- **Notification Setting at a Paper Size/Type Error**  
Selects notification setting at a paper size or type error. Lights Error LED and Paper LED when detecting an error, and notifies error if EPSON Status Monitor 3 is in active. (Default setting is (No Error Notification). The user does not need to change when using with default setting.)

Follow the steps below to set the notification setting.

- 1** Turn the printer on.
- 2** Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))

- 3 Select (Maintenance And Utilities) tab and click (Printer Setting) under (Printer Preferences).
- 4 TM-C3500 PrinterSetting window appears. Select (Advanced Settings) - (Notification Settings).
- 5 "Notification Settings" window appears. Specify each item. Then, click (Apply Settings).



- 6 The confirmation window appears. Click (Yes) to send the settings to the printer.

## Panel Button Settings

Enable/disable the panel buttons of this printer.

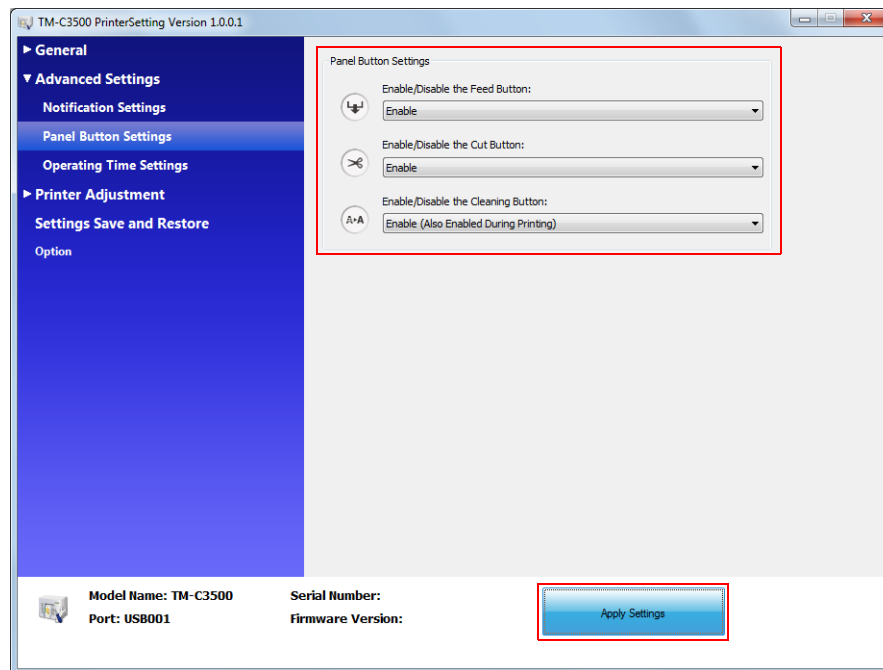
Panel Button	Operation Caused by Panel Button	Settings
Feed Button	Paper feed	Enable / Disable
Cut Button	Paper cut	Enable / Disable
Cleaning Button	Head cleaning	Enable(Also Enabled During Printing)/ Enable(Disabled During Printing) / Disable

Follow the steps below to make the setting.

- 1** Turn the printer on.
- 2** Display the printer driver window.  
(See "[How to Display the Printer Driver](#)" on page 77.)
- 3** Select (Maintenance And Utilities) tab and click (Printer Setting) under (Printer Preferences).
- 4** TM-C3500 PrinterSetting window appears. Select (Advanced Settings) - (Panel Button Settings).



- 5 "Panel Button Setting" window appears. Specify each item. Then, click (Apply Settings).

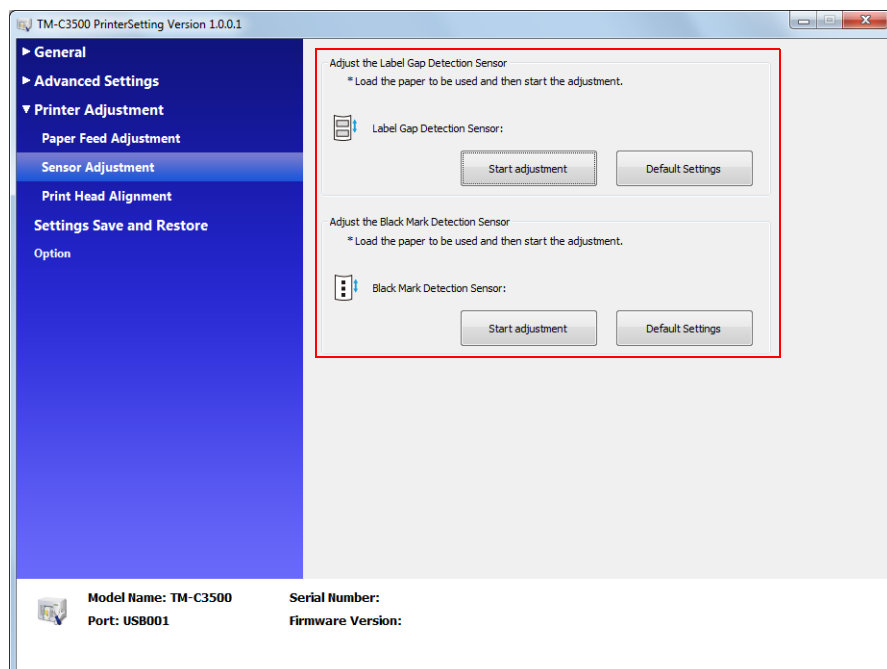


- 6 The confirmation window appears. Click (Yes) to send the settings to the printer.

## Sensor Adjustment

The threshold for the sensor can be adjusted when the sensor does not detect the label gap and black mark for the paper to be used. Follow the steps below to make adjustment.

- 1 Load the paper to the printer.
- 2 Turn the printer on.
- 3 Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))
- 4 Select (Maintenance And Utilities) tab and click (Printer Setting) under (Printer Preferences).
- 5 TM-C3500 PrinterSetting window appears. Select (Printer Adjustment) - (Adjustment ).
- 6 "Sensor Adjustment" window appears. Click (Start adjustment) for the sensor to be adjusted.



- 7 The confirmation window appears. Click (Yes) to send the adjust the sensor.

## Setting the Printer

### Media position detection settings

This product can perform the following four types of [Media position detection setting]. The aforementioned [Media source setting] and the [Media position detection setting] are related as below table.

- ☐ Full-page label/Continuous paper/Transparent full-page label  
Detects paper presence only and does not adjust the paper position.
- ☐ Die-cut label (BM)  
When adjusting the position of die-cut labels using the black mark, this adjusts the print position and autocut position in relation to the black mark top position.
- ☐ Black mark continuous paper  
When adjusting the position of continuous paper using the black mark, this adjusts the print position and autocut position in relation to the black mark top position.
- ☐ Die-cut label (Gap)/Transparent die-cut label  
When adjusting the position of die-cut label using the gap, this adjusts the print position and autocut position in relation to the label top position.

Media position detection settings	Media source settings	
	Roll Paper	Fanfold Paper
Full-page label/Continuous paper/Transparent full-page Label	Available	Unavailable
Die-cut label (BM)	Available	Available
Black mark receipt	Available	Available
Die-cut label (Gap)/Transparent die-cut label	Available	Unavailable

## Nozzle Check Mode Settings

The following modes are available for the printing operation mode setting. (The mode is set to [Anti-missing read mode] by default. If you use the default setting, there is no need to change the settings.)

- Anti-missing Dot Mode
- Anti-missing Read Mode
- Anti-missing Color Mode
- No Missing Dot Detection Mode

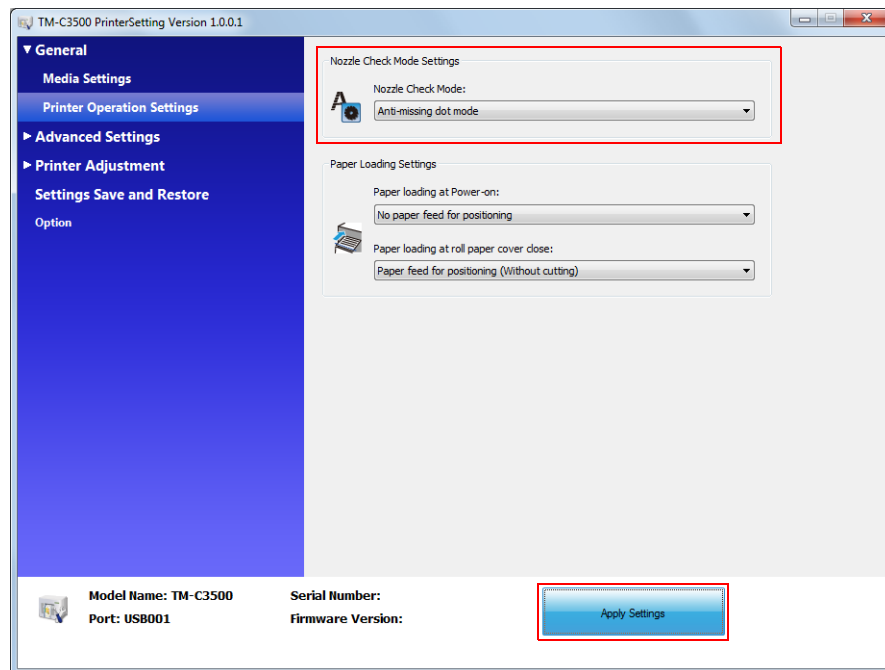
(For details on each mode, see ["Auto nozzle check system" on page 22.](#))

---

### How to Set the Mode

- 1** Turn the printer on.
- 2** Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))
- 3** Select (Maintenance And Utilities) tab and click (Printer Setting) under (Printer Preferences).
- 4** TM-C3500 PrinterSetting window appears. Select (General)-(Printer Operation Settings).

- 5 "Printer Operation Settings" window appears. Set (Nozzle Check Mode) under (Nozzle Check Mode Settings). Then, click (Apply Settings).

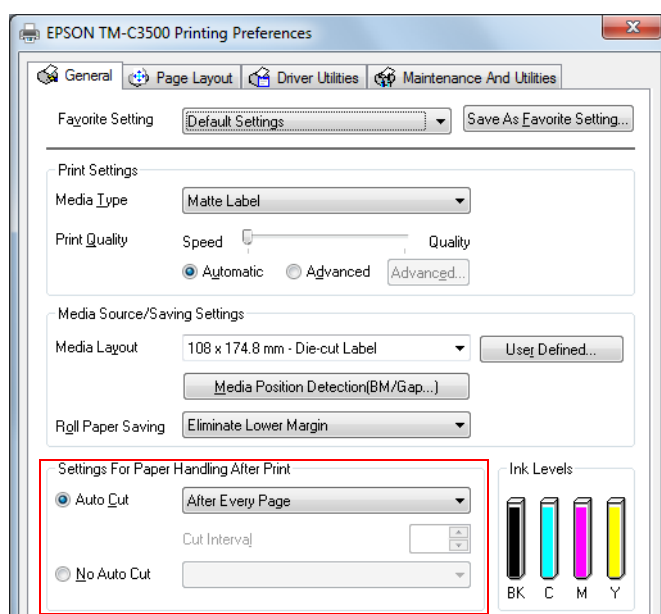


- 6 The confirmation window appears. Click (Yes) to send the settings to the printer.

## Settings For Paper Handling After Print

Follow the steps below to set whether to enable autocut after printing and paper feed settings.

- 1 Display the printer driver window.  
(See ["How to Display the Printer Driver"](#) on page 77.)
- 2 On (General) tab, set (Settings For Paper Handling After Print).



Item		Description
Auto Cut	After Every Page	After printing, the paper is fed to the position where autocutting is possible and is automatically cut on a page-by-page basis. When resuming printing, the paper is fed in the reverse direction to the printing position and then printing resumes.
	Only After Last Page	After printing, the paper is fed to the position where autocutting is possible and only the last page is automatically cut. When resuming printing, the paper is fed in the reverse direction to the printing position and then printing resumes.
	After Specified Number Of Page	Specify the cut interval. After printing, the paper is fed to the position where autocutting is possible and is automatically cut at specified intervals. When resuming printing, the paper is fed in the reverse direction to the printing position and then printing resumes.

Item		Description
No Auto Cut	Feed To Peel Off Position	After printing, the paper is fed to the position where autocutting is possible, and stops without performing autocutting. Paper cutting is possible with the CUT button. When resuming printing, the paper is fed in the reverse direction to the printing position and then printing resumes.
	Feed To Cut Position	After printing, the paper is fed to the position where peeling is possible, and stops. Paper cutting is possible with the CUT button. When resuming printing, the paper is fed in the reverse direction to the printing position and then printing resumes.

**3**

Click (OK).

The settings for paper handling after print are applied and saved.

**3**

## Paper Loading Settings

Follow the steps below to specify the settings for paper loading at power-on/paper cover close. The following types are available for the settings for paper loading at power-on/paper cover close. (The type is set to [Paper feed for positioning (With cutting)] by default. If you use the default setting, there is no need to change the settings.)

### Paper loading at power-on

Settings	Description
Paper feed for positioning (With cutting)	<p>Paper loading settings: Die-cut label (BM), Black Mark continuous paper, Die-cut label (Gap)/Transparent die-cut label</p> <p>Paper is loaded based on the upper end of black mark/label detected by the black mark detector or label detector. After paper feed is finished, autocut is performed and the printer enters the standby status.</p> <p>Paper loading settings: Full-page label/Continuous paper/Transparent full-page label</p> <p>A certain amount of paper is fed. After paper feed is finished, autocut is performed and the printer enters the standby status.</p>
Paper feed for positioning (Without cutting)	<p>Paper loading settings: Die-cut label (BM), Black Mark continuous paper, Die-cut label (Gap)/Transparent die-cut label</p> <p>Paper is loaded based on the upper end of black mark/label detected by the black mark detector or label detector. After paper feed is finished, no autocut is performed and the printer enters the standby status.</p> <p>Paper loading settings: Full-page label/Continuous paper/Transparent full-page label</p> <p>A certain amount of paper is fed. After paper feed is finished, no autocut is performed and the printer enters the standby status.</p>
No paper feed for positioning	No paper loading or paper feeding is performed.

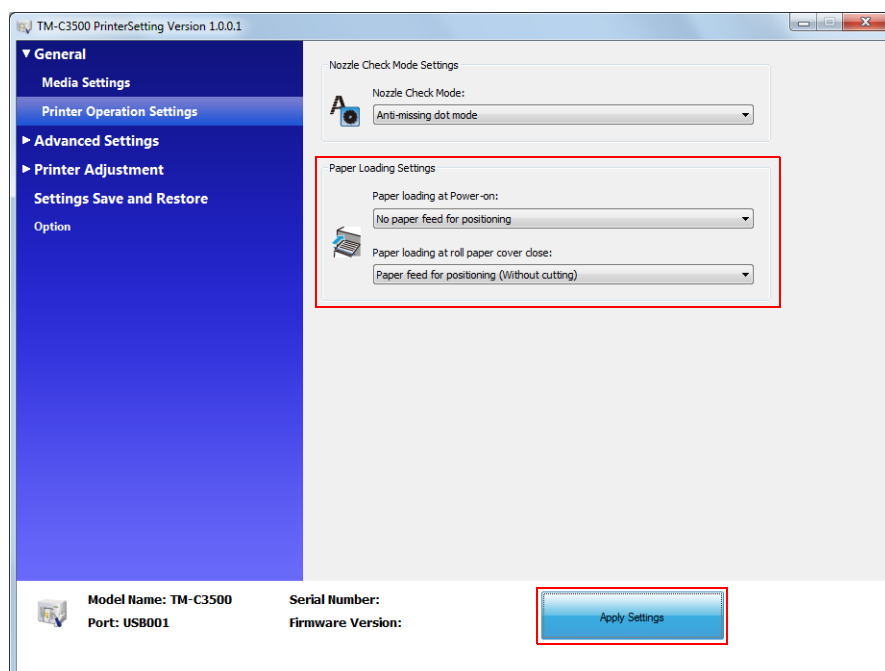


**Paper feed for positioning (Without cutting)**

Settings	Description
Paper feed for positioning (With cutting)	<p>Paper loading settings: Die-cut label (BM), Black Mark continuous paper, Die-cut label (Gap)/Transparent die-cut label</p> <p>Paper is loaded based on the upper end of black mark/label detected by the black mark detector or label detector. After paper feed is finished, autocut is performed and the printer enters the standby status.</p> <p>Paper loading settings: Full-page label/Continuous paper/Transparent full-page label</p> <p>A certain amount of paper is fed. After paper feed is finished, autocut is performed and the printer enters the standby status.</p>
Paper feed for positioning (Without cutting)	<p>Paper loading settings: Die-cut label (BM), Black Mark continuous paper, Die-cut label (Gap)/Transparent die-cut label</p> <p>Paper is loaded based on the upper end of black mark/label detected by the black mark detector or label detector. After paper feed is finished, no autocut is performed and the printer enters the standby status.</p> <p>Paper loading settings: Full-page label/Continuous paper/Transparent full-page label</p> <p>A certain amount of paper is fed. After paper feed is finished, no autocut is performed and the printer enters the standby status.</p>

- 1** Turn the printer on.
- 2** Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))
- 3** Select (Maintenance And Utilities) tab and click (Printer Setting) under (Printer Preferences).
- 4** TM-C3500 PrinterSetting window appears. Select (General)-(Printer Operation Settings).

- 5 "Printer Operation Settings" window appears. Specify each item for (Paper Loading at Power -on). Then, click (Apply Settings).



- 6 The confirmation window appears. Click (Yes) to send the settings to the printer.

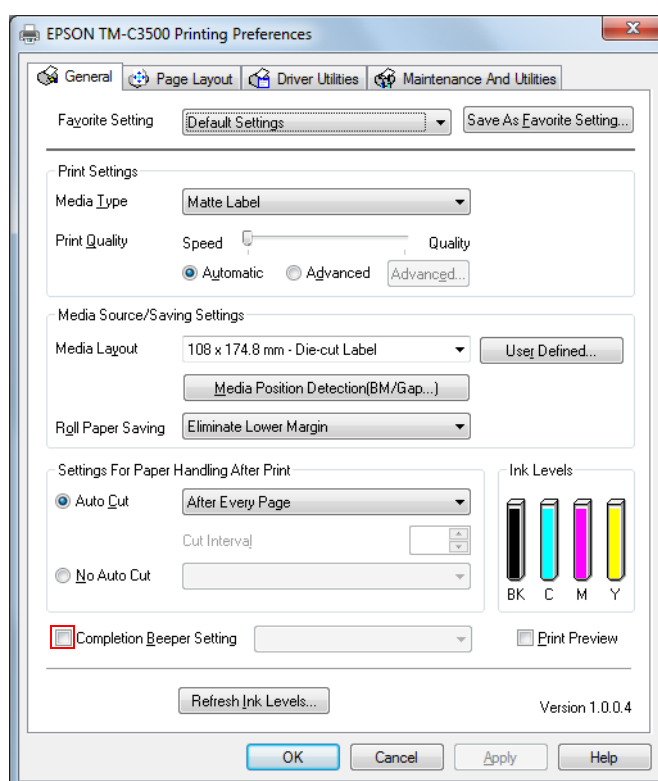
## Beeper

Follow the steps below to set whether to sound the beeper after printing and the timing to sound the beeper.

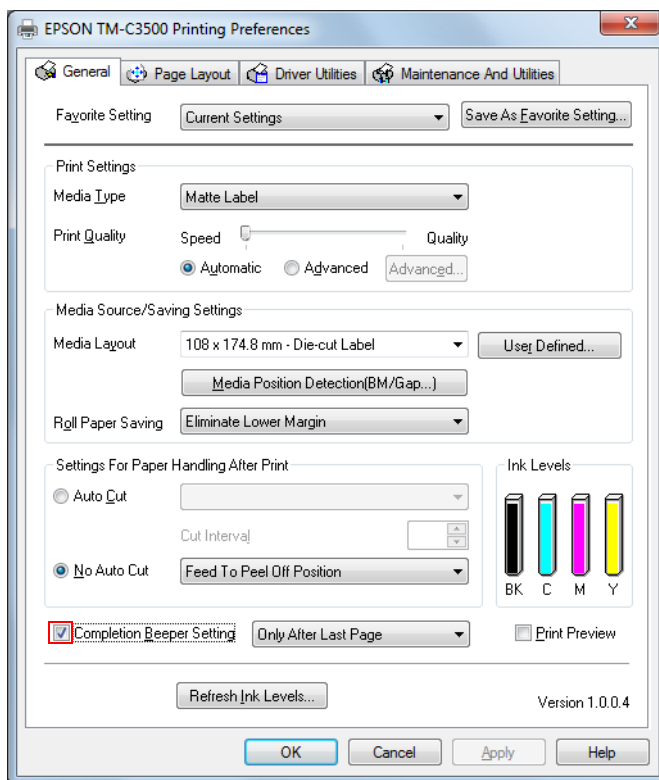
- 1 Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))

To sound no beeper	Proceed to Step 2.
To sound the beeper	Proceed to Step 3.

- 2 On (General) tab, deselect (Completion Beeper Setting).  
Proceed to Step 4.



- 3 Select (Completion Beeper Setting) and then select the timing to sound the beeper. Proceed to Step 4.



Item	Description
After Every Page	The beeper is set off after each page is printed.
Only After Last Page	The beeper is set off the last page is printed.

- 4 Click (OK).  
The settings for beeper sound are applied and saved.

## Network Interface

The Ethernet interface information for this printer is as shown below.

### Factory settings

The factory settings for this printer are as follows:

Item	Factory settings
IP address setting mode:	Manual
IP address:	192.168.192.168
Host computer name:	EPSONxxxxxx (xxxxxx sets the lowest 6 digits of the MAC address.)
Domain name	None

### How to initialize the settings to the factory settings

Follow the steps below to initialize the Ethernet interface of this printer.

- 1** Make sure that the printer is turned off.
- 2** Turn the power on while pressing the STATUS SHEET button; then continue to press the status sheet button for ten seconds or more. The settings for the Ethernet interface can be changed to the factory settings.

# Troubleshooting

## Error Recovery Method

The following table shows the error recovery methods.

LCD display	Description	Recovery method
MEDIA FORM ERROR	The type of the paper set in the printer is different from the specified type set for "Media position detection settings".	<ul style="list-style-type: none"><li>Set the type of paper specified for "Media position detection settings".</li><li>Change the settings for "Media position detection settings" to that is suitable for the loaded paper.</li></ul>
MEDIA SIZE ERROR	The paper size is inappropriate for the print area.	<ul style="list-style-type: none"><li>Set the paper whose size matches the print area.</li><li>Change the print area to that suitable for the loaded paper.</li></ul>
PAPER JAM ERR ## ##:59	Roll paper is installed to the printer set on fanfold paper.	Set the type of paper specified for "Media source". Set the paper, <a href="#">"Replacing Roll Paper with Fanfold Paper" on page 100</a> or <a href="#">"Replacing Fanfold Paper with Roll Paper" on page 110</a> .
PAPER JAM ERR ## ##:01 to 0E, 44, 55 to 5C, 80	The paper is jammed.	Check the paper path for a paper jam. If jammed paper is found, remove it completely. Set the paper, <a href="#">"Replacing Roll Paper with Fanfold Paper" on page 100</a> or <a href="#">"Replacing Fanfold Paper with Roll Paper" on page 110</a> .
PAPER REMOVAL ER	Fanfold paper is inserted when fanfold paper still remains in the printer.	Pull out the fanfold paper that remains in the paper exit. Inset fanfold paper into the fanfold paper slot at the back of the printer.
PAPER OUT	Paper is out.	Set the paper, <a href="#">"Replacing Roll Paper with Fanfold Paper" on page 100</a> or <a href="#">"Replacing Fanfold Paper with Roll Paper" on page 110</a> .
PAPER OUT ERROR	Paper is out.	
ROLL COVER OPEN	The roll paper cover is open.	Close the roll paper cover.
INK COVER OPEN	The ink cartridge cover is open.	Close the ink cartridge cover.
NO INK CARTRIDGE	An ink cartridge is not loaded.	Load an ink cartridge with sufficient ink left. See <a href="#">"Replacing the Ink Cartridge" on page 95</a> .

LCD display	Description	Recovery method
INK READ ERROR	The ink cartridge information could not be read.	<ul style="list-style-type: none"> <li>Remove the ink cartridge. Load the ink cartridge again.</li> <li>If the error occurs again, replace the ink cartridge with a new one.</li> </ul> See <a href="#">"Replacing the Ink Cartridge" on page 95.</a>
M/B COVER OPEN	The maintenance box cover is open.	Close the maintenance box cover.
NO MAINT BOX	The maintenance box is not loaded.	Load a maintenance box with sufficient space. See <a href="#">"Replacing Maintenance Box" on page 98.</a>
M/B READ ERROR	The maintenance box information could not be read.	<ul style="list-style-type: none"> <li>Remove the maintenance box. Load the maintenance box again.</li> <li>If the error occurs again, replace the maintenance box with a new one.</li> </ul> See <a href="#">"Replacing Maintenance Box" on page 98.</a>
REPLACE INK	It is time to replace the ink cartridge.	Load an ink cartridge with sufficient ink. See <a href="#">"Replacing the Ink Cartridge" on page 95.</a>
REPLACE MAINT B	It is time to replace the maintenance box.	Load a maintenance box with sufficient space. See <a href="#">"Replacing Maintenance Box" on page 98.</a>
NOZZLE CLOGGED	A nozzle clog that cannot be recovered from occurred.	Check the printing result, and if the nozzle clog cannot be permitted, perform repairs.
CUT UNAVAILABLE	Autocutting is being performed 2 or more times with the paper in the same position.	To prevent pieces of paper, autocutting cannot be performed twice or more without feeding the paper. Autocutting is unnecessary.
SERVICE SOON ##	The product is near the end of its service life.	Because the internal parts of the printer are near the end of their service life, prepare to replace the printer, or prepare a printer for replacement.
PRINTER ERROR ## ##: 7B or 7C	Environmental temperature is out of spec.	Environmental temperature is too low (7B) or too high (7C). Set operating temperature from 10 to 35°C {50 to 95°C}. Turn on the power again.

LCD display	Description	Recovery method
PRINTER ERROR ## ##: 20 to 54, 64 to 75, A9, B0 to DA	Paper jam Poor autocutter operation Irregular ambient temperature Malfunction	1. Turn the printer off. 2. Open the roll paper cover. 3. Check the paper path for a paper jam. If jammed paper is found, remove it completely. 4. Set a paper. 5. Turn the printer on. If the error occurs again, perform repairs.
SERVICE REQD. ## ##: A0 to A3	The product is beyond its service life.	Perform repairs.
Failure in firmware updating	Failed to update the firmware.	Turn the power on again, and if the error occurs again, perform repairs.

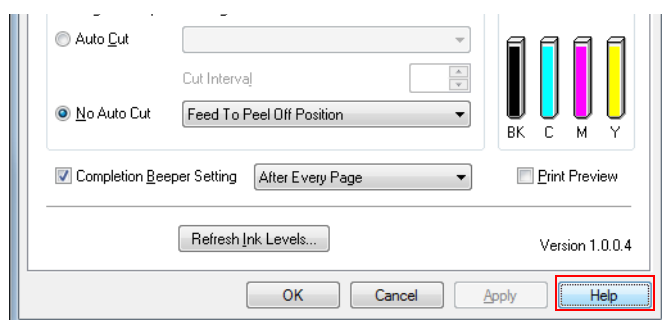


## HELP for EPSON Printers

You can view the help for the driver to handle errors.

Follow the steps below to display the troubleshooting of the driver to the LCD display.

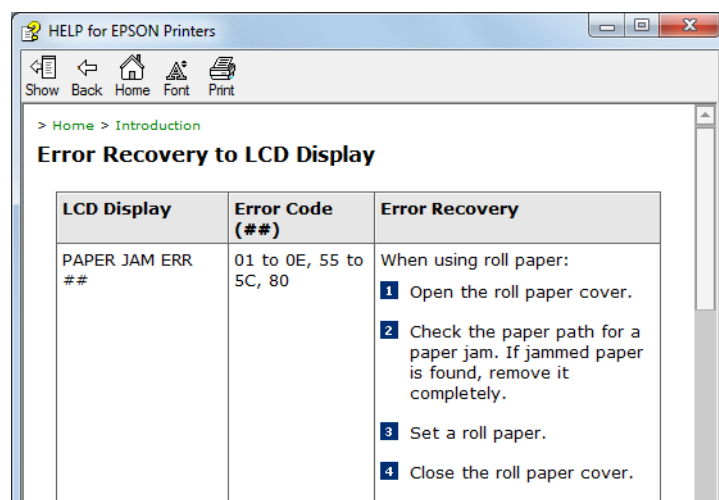
- 3** Display the printer driver window.  
(See ["How to Display the Printer Driver" on page 77.](#))
- 4** Click (Help) at the bottom-right of the window.



- 5** "HELP for EPSON Printers" window appears. From the top page, select (Introduction) - (Error Recovery to LCD Display).  
Click [Home] to display the top page.



## 6 "Error Recovery to LCD Display" appears.



## Setting Check Modes

Besides the ordinary print mode, the printer has the self-test mode and allows you to print the status sheet to check the various settings of the printer.

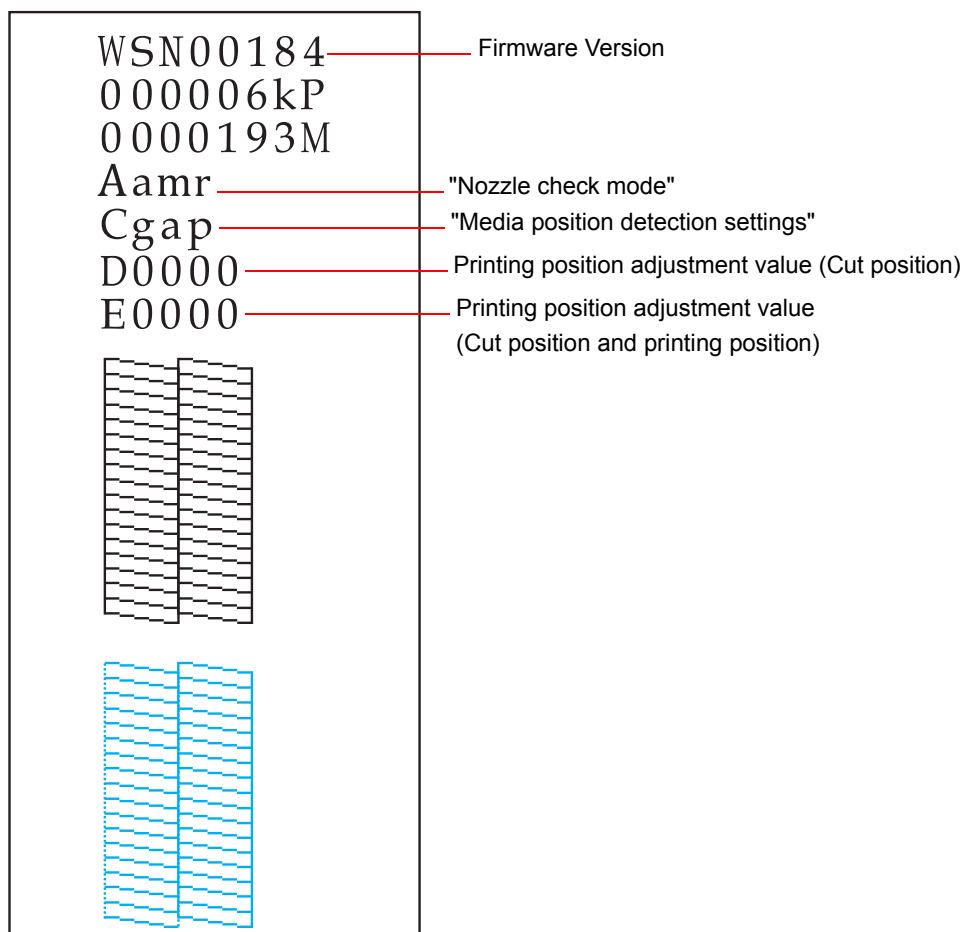
### Self-test Mode

Printing errors such as dot missing can be checked on self-test mode. In addition, the firmware version, Post-Printing Verification Settings, and media position detection setting can be checked. Follow the steps below to run the self-test.

**1** Set the die-cut label, receipt or continuous label which length is 90 mm or more.

**2** Turn the power on while pressing the paper feed button. (Keep pressing the Power switch until the POWER LED is on.)

Following test pattern is printed.



Status		Specification
Nozzle check mode	Aamd	Anti-missing Dot Mode
	Aamr	Anti-missing Read Mode
	Aamc	Anti-missing Color Mode
	Anod	No Missing Dot Detection Mode

Status		Specification
Media position detection settings	Cnod	Full-page label/Continuous paper/Transparent full-page label
	Cbmd	Die-cut Label (BM)
	Cbmc	Black mark continuous paper
	Cgap	Die-cut label (Gap)/Transparent die-cut label

## Status Sheet Printing (Ethernet interface model only)

Network setting can be checked by printing the status sheet for the Ethernet interface model.  
Following status sheet is printed when pressing the status sheet button on the rear of the printer.

### NOTE

The network setting can be reset to the default value by turning on the printer while pressing the status sheet button and holding the button down for 20 seconds or more.

#### EPSON Network Status Sheet

1. MAC Address	XX : XX : XX : XX : XX : XX	
2. HW/SW Version	XX . XX/XX . XX	
3. Network Status	Auto (100Base Full)	Auto (10 Base Full/10 Base Half/100 Base Full/ 100 Base Half)/10 Base Full/10 Base Half/100 Base Full/100 Base Half
4. Port Type	Auto	Auto/MDI/MDI-X
5. Get IP Address	Manual	Auto/Manual
6. IP Address	XXX . XXX . XXX . XXX	
7. Subnet Mask	XXX . XXX . XXX . XXX	
8. Default Gateway	XXX . XXX . XXX . XXX	
9. APIPA	Disable	Enable/Disable
10. Set using PING	Disable	Enable/Disable
11. DNS Address	Disable	Enable/Disable
	XXX . XXX . XXX . XXX	
	XXX . XXX . XXX . XXX	
	XXX . XXX . XXX . XXX	
12. UPnP	Disable	Enable/Disable
13. Bonjour	Disable	Enable/Disable
14. Port Control LPR	Enable	Enable/Disable
Port 9100	Enable	Enable/Disable
15. Printing Control	Disable	Enable/Disable
16. Time Server	Disable	Enable/Disable
17. Idle Timeout LPR	XXXX sec	
Port 9100	XXXX sec	

## *Reset*

The printer resets in the following cases (called "hardware reset"):

- ❑ When the printer is initialized with the RESET button
- ❑ After the printer's firmware is updated

# Cleaning the Printer

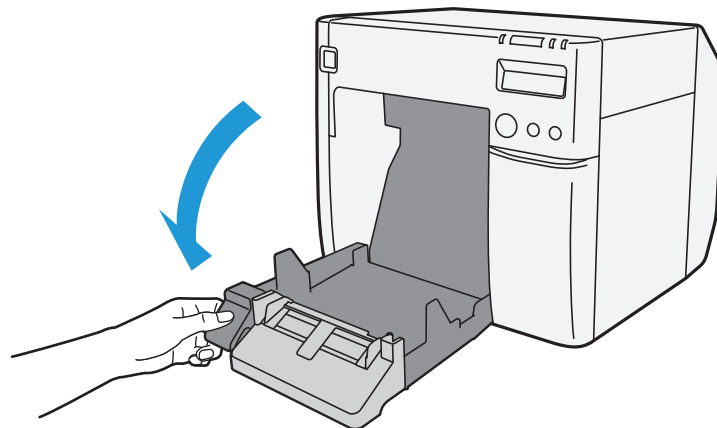
## Cleaning the platen

When replacing the maintenance box, use the non-woven cloth and cotton swabs included in the maintenance box and clean the platen in the following procedure.



- Do not use any water or alcohol.
- Be careful not to change the shutter positions on the platen. If the shutter is set incorrectly, paper may be jammed or get dirty.
- Be careful not to disfigure or damage the 3 sensors.

- 1** Turn off the printer and unplug the AC cable from the inlet.
- 2** Press down the release lever, and pull it to the front to open the roll paper cover.



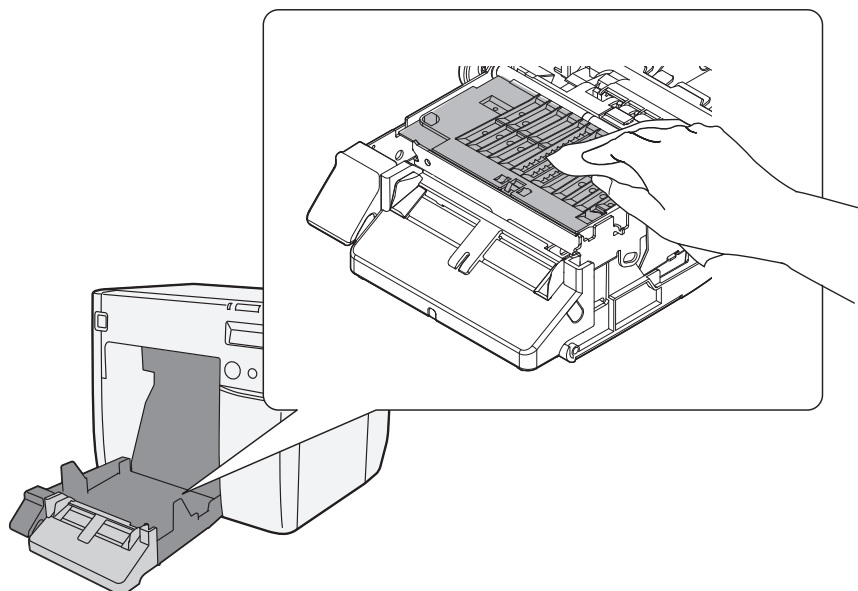
- 3** Remove the used roll paper or fanfold paper.



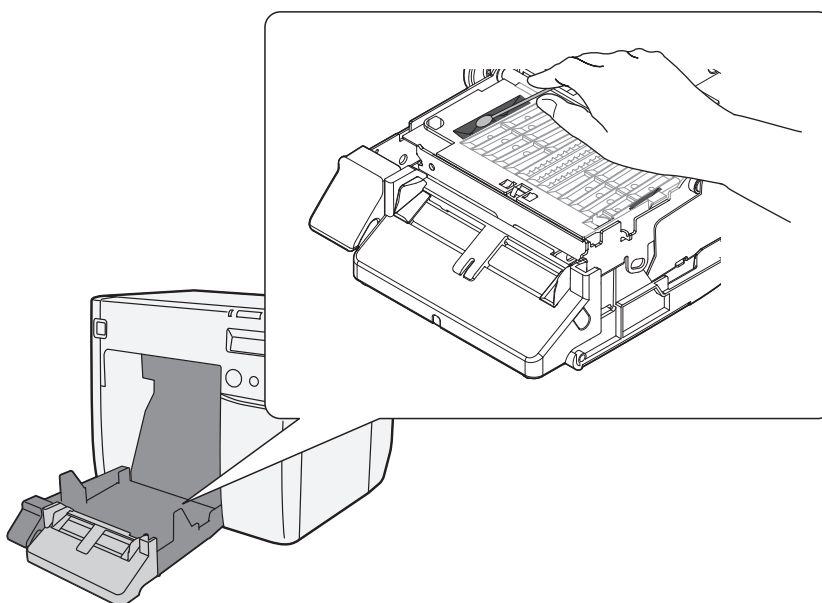
- 4** Use the non-woven cloth included with the maintenance box to wipe off stains on the platen.

**NOTE**

Your hands or paper may be stained by the ink on the platen. If the three holes in the platen are clogged with ink, ink stains may occur inside the printer.



- 5** Use the included cotton swabs to remove stains in the holes or on the sides. If the holes are clogged, be sure to remove the stains and clean them through.

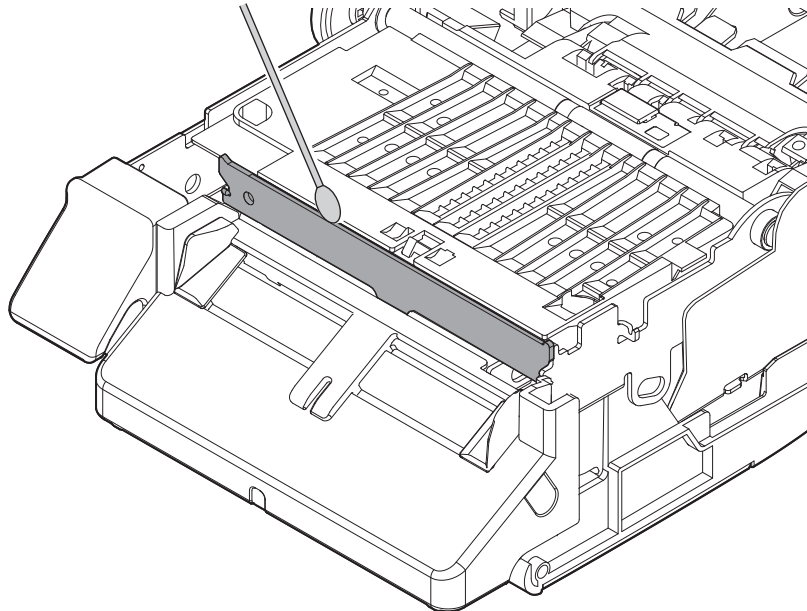


- 6** Close the roll paper cover.

## Cleaning the Autocutter

Adhesive from labels may stick to the fixed blade of the autocutter, which may prevent the autocutter from cutting paper cleanly. If this happens, follow the steps below to clean the autocutter.

- 1** Turn off the printer, and unplug the AC cable from the inlet.
- 2** Open the roll paper cover and remove the paper.
- 3** Remove the adhesive on the autocutter blade on the side of the roll paper cover with an implement such as a cotton swab.  
If necessary, moisten the cotton swab with alcohol.



Do not touch the fixed blade of the autocutter directly. Doing so may cause injury.

## Media arrangement

Media arrangement when feeding media for printing from the first sheet

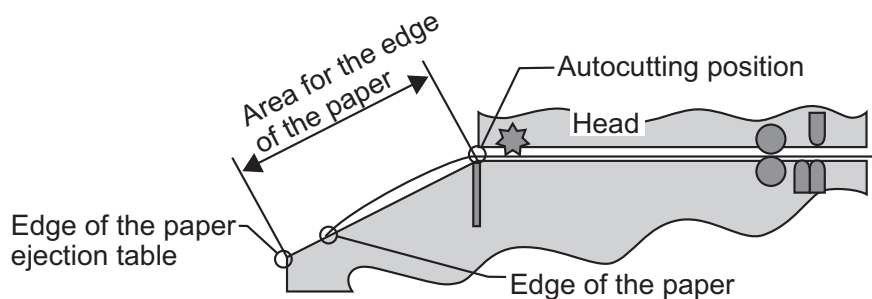
### Roll paper

This can be used with the following media forms.

- Black mark continuous paper
- Die-cut label (BM)
- Die-cut label (Gap)
- Transparent die-cut label

### Loading Paper

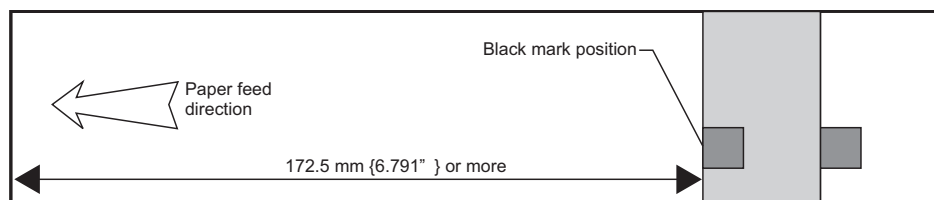
When feeding paper, bring the edge of the roll paper between the autocutting position and the edge of the paper ejection table, then close the roll paper cover.



### Method for arranging the media

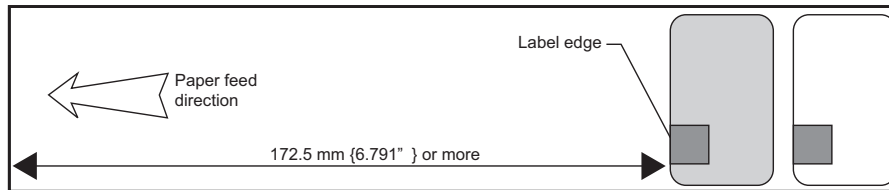
- Black mark continuous paper

Place the edge of the first black mark in a position 172.5 mm {6.791"} or more from the edge of the roll paper, and do not place a black mark before there.



- Die-cut label (BM), die-cut label (gap), and transparent die-cut label

Place the edge of the first label in a position 172.5 mm {6.791"} or more from the edge of the roll paper, and do not place a label or black mark before there, leaving only the backing.



## Fanfold Paper

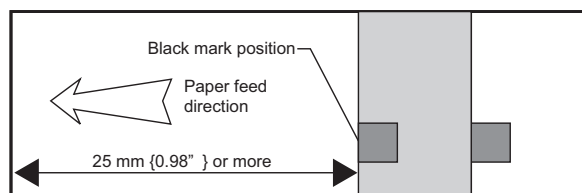
The following media forms can save on media.

- Black mark continuous paper
- Die-cut label (BM)

### Method for arranging the media

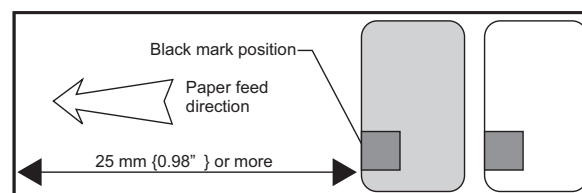
- Black mark continuous paper

Place the edge of the first black mark in a position 25 mm {0.98"} or more from the edge of the paper, and do not place a black mark before there.



- Die-cut label (BM)

Place the edge of the first label in a position 25 mm {0.98"} or more from the edge of the paper, and do not place a label or black mark before there, leaving only the backing.



## Media arrangement for printing on the last sheet

### Roll paper

The following media forms can save on media.

- Black mark continuous paper
- Die-cut label (BM)
- Die-cut label (Gap)
- Transparent die-cut label

### Premise

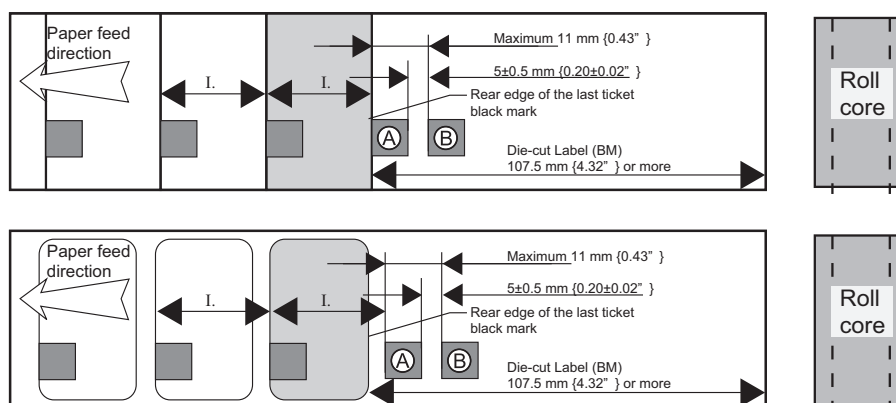
- The starting part of the paper roll and the roll core are not glued or taped down.
- “No autotcut: feed to peel off position” is not selected at “Settings for paper handling after print”.
- For black mark continuous paper and die-cut labels (BM), Enable “Notification setting at media size error”.

Go to [Maintenance And Utilities] - [Printer Preferences] - [Advanced Settings] - [Notification Settings], then from the [Notification Setting at a Media Size Error] menu, select [Notify errors].

## Method for arranging the media

- Black mark continuous paper, and die-cut label

Ensure a margin of 107.5 mm {4.32"} or more from the rear edge of the last ticket or label to be printed, and for labels, leave only the backing. Also, behind the last ticket or label to be printed, place a black mark [A in the figure] at the same interval up until that point [L in the figure], leave a gap of  $5 \pm 0.5$  mm { $0.20 \pm 0.02$ " } behind that, and place another black mark [B in the figure]. The maximum interval between the aforementioned 2 black marks is 11 mm {0.43"}.

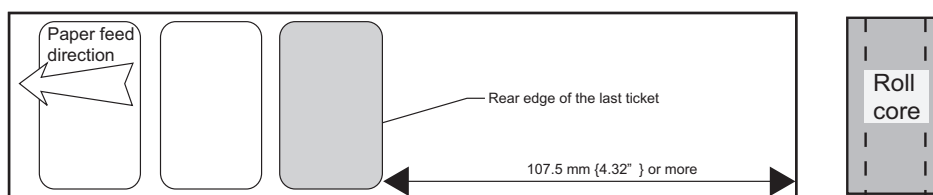


### CAUTION

Once the printing processing (including autocutting) for the last ticket or label is completed properly, directly after the new print data is sent to the printer, a "Media size error" occurs, and the printer stops with the print data saved.

- Die-cut label (Gap), and transparent die-cut label

Leave only the backing for 107.5 mm {4.32"} or more after the rear edge for the last label to be printed, and do not place a label there.



### CAUTION

Once the printing processing (including autocutting) for the last ticket or label is completed properly, directly after the new print data is sent to the printer, a "Media size error" occurs, and the printer stops with the print data saved.

## Fanfold paper

The following media forms can save on media.

- Black mark continuous paper
- Die-cut label (BM)

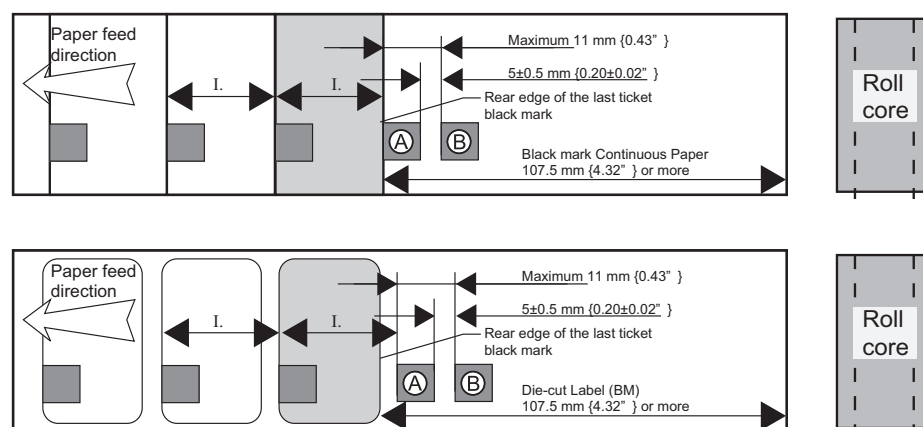
### Premise

- Moving to the peel position as post-printing processing is not selected.
- For black mark continuous paper and die-cut labels (BM), Enable "Notification setting at media size error".

Go to [Maintenance And Utilities] - [Printer Preferences] - [Advanced Settings] - [Notification Settings], then from the [Notification Setting at a Media Size Error] menu, select [Notify errors].

### Method for arranging the media

Ensure a margin of 107.5 mm {4.32"} or more from the rear edge of the last ticket or label to be printed, and for labels, leave only the backing. Also, behind the last ticket or label to be printed, place a black mark [A in the figure] at the same interval up until that point [L in the figure], leave a gap of  $5 \pm 0.5$  mm { $0.20 \pm 0.02$ " } mm behind that, and place another black mark [B in the figure]. The maximum interval between the aforementioned 2 black marks is 11 mm {0.43"}.



### CAUTION

Once the printing processing (including autocutting) for the last ticket or label is completed properly, directly after the new print data is sent to the printer, a "Media size error" occurs, and the printer stops with the print data saved.





# Application Development Information

This chapter describes how to control the printer and gives information useful for printer application development.

## Overview

The following is provided to use this printer.

- ❑ The dedicated printer driver for Windows is available.

The reprint function is implemented in the printer driver. The reprint function is not necessary to be implemented in the application since the printer driver performs reprint automatically when an error occurs (paper out, paper jam or ink missing dots occurs).

(See "[Setting the Printer Driver](#)" on page 118 for details.)

- ❑ Various utilities and user's manuals are available.

- ❑ Dedicated sample program for TM-C3500 is available.

Use this as reference to develop the application.

- ❑ EpsonNet SDK is available.

This is used for EPSON network printer. On this printer, this is used to check the network setting. The sample program is available on EpsonNet SDK but it is not used for this printer.

- ❑ EPDI (EPSON Printer Driver Interface) for TM-C3500 is provided.

API for changing the printing preferences for the printer driver from the user's application. Can be downloaded from our web site. (See "[Download](#)" on page 189).

### CAUTION

This printer can not use the APD or OPOS/JavaPOS provided by EPSON.

## Printer Driver

The printer driver has the following functions and these are not necessary to implement in the application.

- ❑ Barcode and 2D symbol font is implemented. The barcode and 2D symbol font can also be printed using font replacement function for .NET environment.

The barcode and 2D symbol font must be set in advance on the printer driver to use this function. (See ["Barcode Printing" on page 124](#) and ["2D Symbol Font Settings" on page 136](#) for details of how to make setting.)

On .NET environment, True Type font is specified to be replaced by barcode and 2D symbol font. The barcode and 2D symbol can be printed by specifying replaced True Type font from the application. (See ["Barcode and 2D Symbol Font Printing on .NET Environment" on page 143](#) for details about font replacement function.)

## Sample Program

Refer to TM-C3500 sample program to develop the application using this printer.

### ❑ Installation of TM-C3500 sample program

Execute c35smp\_xxe.msi to install the sample program.

### ❑ TM-C3500 sample program use conditions

- Use Die-cut Label (108 × 174.8 mm).
- In the printer driver settings, set [Media position detection settings] to [Die-cut label (Gap)].
- Some sample programs use SNMP TRAP. The Trap function of the printer is set with EpsonNet SDK when installing. Therefore, enable the Trap function before installing the EpsonNet SDK. For details, see "[EpsonNet SDK](#)" on page 185.
- Languages of C++, C#, VB.NET are provided for the TM-C3500 sample program.
- The TM-C3500 sample program cannot be used for other printers than this printer.

#### CAUTION

Operation is checked for the sample program using the EpsonNet SDK; however, EpsonNet SDK does not support C#, and VB.NET officially. Combination with each language is not 100% confirmed.

### ❑ Structure of TM-C3500 sample program

The following is the structure, model and language to use for TM-C3500 sample program.

Level	Program name	Detail	Language		
			C++	C#	VB.NET
Basic	Step 1 Printing characters	Uses labels for printing.	√	—	√
	Step 2 Printing bar codes	Uses the barcode fonts that are set in advance.	√	—	√
	Step 3 Printing bit map data	Includes bit map data	√	√	√
	Step 4 Requesting the printer status from the application	Checks the printer condition before printing and executes error handling	√	—	√
	Step 5 Notifying the printer status from the printer to the application	When the condition of the printer is changed, from the application and executes error handling.	√	—	√
	Complete basic features	The program combined from Step 1 to 5.	√	√	√

Level	Program name	Detail	Language		
			C++	C#	VB.NET
Advanced	Monitoring the printer status and controlling print jobs	When the ink cover is opened during printing, recognizes this as an error and cancels printing job.	√	—	√
	Changing the print settings with DEVMODE	Executes a 90-degree rotation or changes the number of copies by the application.	√	—	√
	Obtaining various printer information	Acquires driver version, name of the administrator, location and CPU information of the printer.	√	—	√
	Obtaining the print completion	Displays “printing completed” when the printer acquires the status that label print is completed. When the status is not acquired, the message is not displayed.	√	√	√

## EpsonNet SDK

EpsonNet SDK is the API for the Epson network printer, and also supported by this printer.

The network setting is checked but setting can not be executed on this printer.

This is to use for developing the application to monitor the printer on the network of this printer.

### CAUTION

The EpsonNet SDK operates under Win32. It can operate also under .NET, but not is not supported officially.

## Environmental Setting for EpsonNet SDK

To make environmental settings for the EpsonNet SDK, "setting.ini" of the EpsonNet SDK needs to be edited before installing it. See below for instructions on editing it.

Item	Set contents	Value	Default
TCPIP	Set to use the EpsonNet SDK for Ethernet interface.	Apply : 1 Not apply : 0	1
LOCAL	Set to use the EpsonNet SDK for USB interface.	Apply : 1 Not apply : 0	1
SHARE	Set to use the EpsonNet SDK on shared printers.	Apply : 1 Not apply : 0	0
TRAP	Set to use the SNMP TRAP.	Apply : 1 Not apply : 0	0
EXECTYPE	Fixed value	TERM	-
SHREAGT	Set to use the server communication module for MS shared printing.	Apply : 1 Not apply : 0	0
EPSONNETSDK	Fixed value	0	-
INSTALL	Fixed value	0	-

### CAUTION

To send the printer status with the EpsonNet SDK, it is necessary to set the Trap function.

---

## Setting Procedure

When the EpsonNet SDK has already been installed, uninstall it first.

Follow the steps below to make the setting for the EpsonNet SDK, and then install it again.

- 1** Edit "setting.ini" in the Install Disk of the EpsonNet SDK.
- 2** Install the EpsonNet SDK.

## Utilities and Manuals

The several kinds of utilities and manuals other than the printer driver are available for this printer.

Name	Manual
Printer Driver	TM-C3500 Technical Reference Guide
InstallNavi	None
EpsonNet Config	EpsonNet Config Manual
EpsonNet SDK for Windows	EpsonNet SDK for Windows Reference
USB Printer class Replacement Service	None
Sample Program	None For how to use, see the menu page of the sample program.
EPDI for TM-C3500	EPDI for TM-C3500 Reference Manual

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### Install Navi

This utility is used to install the printer driver and set up the printer.

Following the instructions on the screen, you can install the printer driver and set up the printer at the same time.

---

### EpsonNet Config

The network setting and changes are available for more than one EPSON printers in the network.



Some EPSON printers are not supported.

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### EpsonNet SDK

This is the software development kit for monitoring the printer via network.

---

## USB Printer Class Device Replacement Service

This is a resident service on the computer. When the TM-C3500 is replaced for service or other reason, this detects the printer connection and automatically changes the output printer of the printer driver.

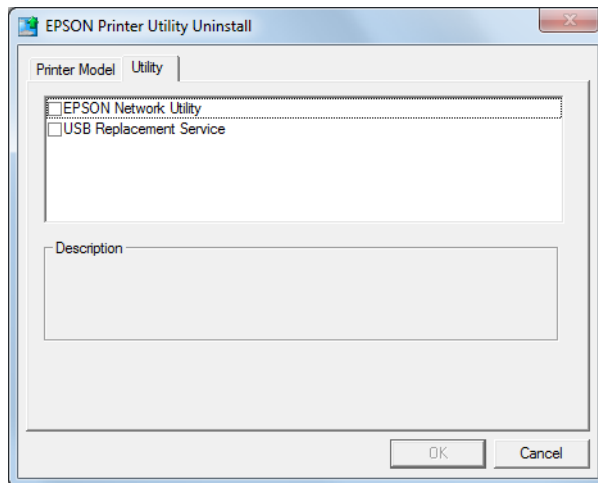
This allows the printer to be replaced without changing settings in the application. (The printer is not replaced if a port is specified for the application output destination. The printer is only replaced if the printer driver is specified.)

There is no need to change the USB serial number of the TM-C3500 before replacement.

### Uninstallation of USB Printer Class Device Replacement Service

USB Printer Class Device Replacement Service is not displayed in the software list in the control panel. For uninstallation, follow the steps below.

- 1** Close all applications running on the computer.
- 2** Select (Start) - (Control Panel) - (Uninstall a program) - (EPSON Printer Driver Utility). Click (Uninstall/Change).
- 3** "EPSON Printer Utility Uninstall" screen appears. Select (Utility) tab.



- 4** Select (USB Replacement Service) and click (OK). Click [OK] to start uninstallation.
- 5** The completion window appears. Click (OK).



## Restrictions in USB Printer Class Device Replacement Service

In using USB Printer Class Device Replacement Service on Windows 8 or Windows Server 2012, the following restrictions apply:

- ❑ After the printer is replaced, the green check mark indicating [default printer] in "Devices and Printers" window may be shown on the previous printer that was applied before replacement. Or the check mark may not appear. In these cases, the check mark indication can be corrected with the following steps:
  - Return to the desktop screen and open "Devices and Printers" window again.
  - Right-click the printer driver and select [Set as default printer].
  - Log off the user account and restart the operating system.

---

## Sample Program

This is the sample programs to use TM-C3500 by using EpsonNet SDK. (VB.NET, C++ is prepared for all programs. C# is prepared for some programs.)

---

## EPDI for TM-C3500

Allows the printer driver control from the user's application.

### Download

Drivers, utilities, and manuals can be downloaded from one of the following URLs.

For customers in North America, go to the following web site:

<http://www.epsonexpert.com/> and follow the on-screen instructions.

For customers in other countries, go to the following web site:

<https://download.epson-biz.com/?service=pos>

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If you have any technical questions about this printer, or if any problems occur, please contact us with the following information.

### NOTE

- 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.

- ☐ Type of inquiry:            Problem / Question

☐ Date:

☐ Your company:

☐ Department:

☐ Your name:

☐ Phone/Fax/Email:

☐ Computer information:

  - Manufacturer / CPU

☐ OS (with Service Pack information):

☐ Model name of the printer:

☐ Printer driver:            Installed / Not installed

☐ Connection type:        USB / Ethernet / MS shared (Client / Server)

☐ Install protocol/service:    NetBEUI / NetWare Client (Novell (Ver. )) / Microsoft (Ver. ))  
/ TCPIP / SNMP agent / Other

☐ Print tool:            Local (USB) / Standard TCPIP / OS attached LPR  
/ EPSON TCPIP Print (Name) / Own custom application  
/ Other (Product name/Ver.)

☐ Firewall:            OS standard / Personal (Product name/Ver.) / None

☐ Your application information:

  - Windows service operation / Normal EXE operation

☐ EPSON application status:    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 problem: Yes (            out of            times) / No