

TM-C610

Technical Reference Guide

Product Overview

Describes features and general specifications for the product.

Setup

Describes setup and installation of the product and peripherals.

Application Development Information

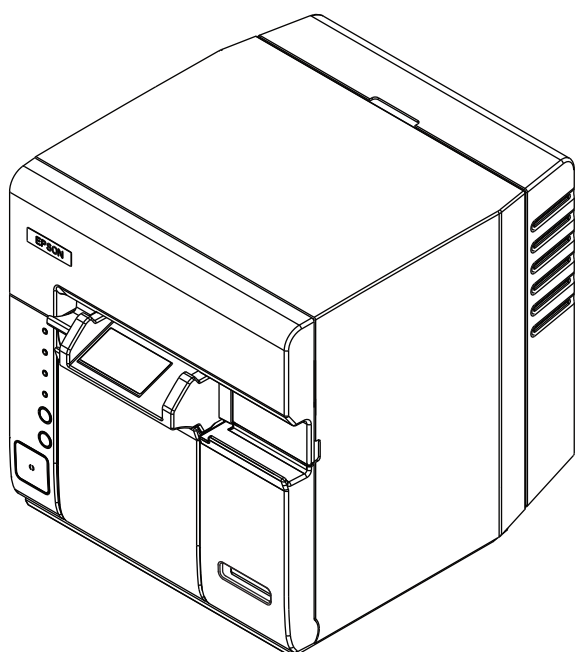
Describes how to control the printer and necessary information when you develop applications.

Handling

Describes how to handle the product.

Maintenance of the TM-C610

Describes to administrator for necessary information to administer TM-C610 in the system such as distributing driver or installing new printer or replacing the printer.



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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.

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

Warnings



WARNING

- **To avoid risk of electric shock, do not set up this product or handle cables during a thunderstorm**
- **Be sure to use the power cable complied with safety standards with a PE (power earth) terminal on the plug, and make sure to ground the product before use.** Ignoring this may result in severe shock.
- **Never insert or disconnect the power plug with wet hands.** Doing so may result in severe shock.
- **Handle the power cable with care.** Improper handling may lead to fire or electric shock.
 - * Do not modify or attempt to repair the cable.
 - * Do not place any heavy object on top of the cable.
 - * Avoid excessive bending, twisting, and pulling.
 - * Do not place the cable near heating equipment.
 - * Check that the plug is clean before plugging it in.
 - * Be sure to push the plug all the way in.
- **Be sure to use the specified power source.** Connection to an improper power source may cause fire or shock.
- **Do not place multiple loads on the power outlet.** Overloading the outlet may lead to fire.
- **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.
- **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, do not continue to use it.** Continued use may lead to fire. Unplug the power cord immediately and contact your dealer or a Seiko Epson service center for advice.
- **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 or fire.
- **Do not connect cables in ways other than those mentioned in this manual.**
Different connections may cause equipment damage or fire.
- **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 this product 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 during transportation of the printer.**

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. Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care etc., please make your own judgment on this product's suitability after a full evaluation.

About this Manual

Aim of the Manual

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

Manual Content

The manual is made up of the following sections:

| | |
|-----------|---|
| Chapter 1 | Product Overview |
| Chapter 2 | Setup |
| Chapter 3 | Application Development Information |
| Chapter 4 | Handling |
| Chapter 5 | Maintenance of the TM-C610 |



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Product Overview

This chapter describes features and specifications of the product.

Features

The TM-C610 is a 3-color ink jet printer that offers high-speed, easy operability, and high reliability required for commercial applications.

Printing

- High-speed printing
 - * 100 mm/s (printing width 50 mm, 360 dpi × 180 dpi, bi-directional printing)
- Color printing
 - * CMY 3-color printing
 - * Print resolution: 360 dpi × 180 dpi, 360 dpi × 360 dpi dpi: dots per 25.4 mm (dots per inch)
 - * Each color has 4 gradations

Handling

- Replacing the roll paper and the ink cartridge can be done from the front of the printer.
- Easy drop-in paper loading

Reliability

- Autocutter is installed for greater paper versatility.
- Uses pigment ink for excellent light-fastness and water-resistance.

Printer driver

- Can print easily with Windows printer driver.
- The printer driver has a built-in barcode font, which is available from .NET application.
- Supported OS
 - * Microsoft Windows Server 2008 R2 (64bit)
 - * Microsoft Windows Server 2008 SP2 (32/64bit)
 - * Microsoft Windows Server 2003 R2 SP2 (32/64bit)
 - * Microsoft Windows 7 (32/64bit)
 - * Microsoft Windows Vista SP2 (32/64bit)
 - * Microsoft Windows XP SP3 (32bit)
 - * Microsoft Windows XP SP2 (64bit)

Status API

- Can transmit the printer status (such as printer and ink cartridge status, and print job information) to your applications, and can set the buzzer to beep when an error such as a cover open occurs. (Though Status API is prepared with the printer driver, you need to install it separately.)
- Dedicated sample program using Status API (program language: C + +, VB.NET, C#, VB6.0) is prepared.

Others

- Compact size fits unobtrusively on a counter.
(Main unit footprint: W 185 mm × D 200 mm {7.28 × 7.87"})
- Includes a buzzer.

Product Configuration

Interface

- USB interface model (USB 2.0 high speed)
- Ethernet interface model (100 Base-TX/10 Base-T)

Color

White

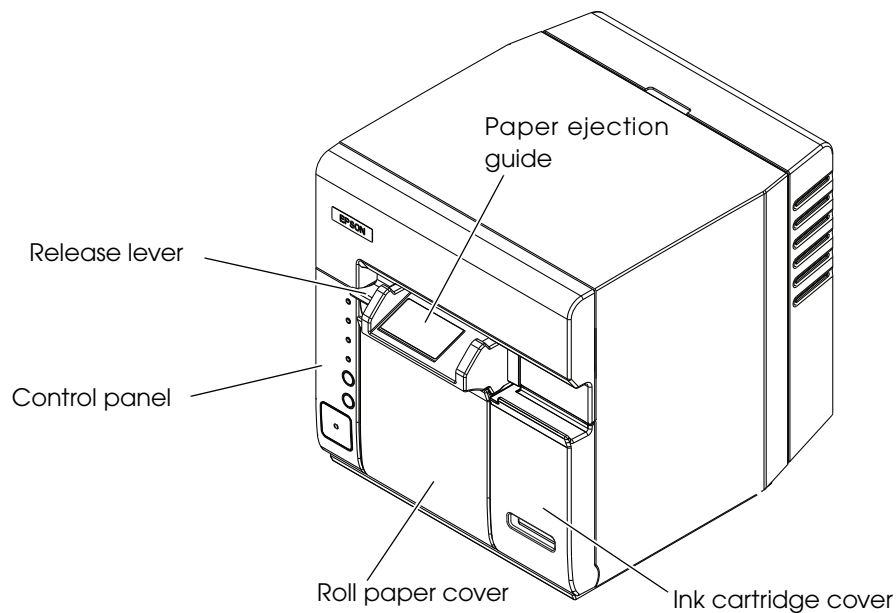
Accessories

Unpacking

- Roll paper
- Ink cartridge (Model number: SJIC15P)
- AC Adapter
- User's Manual

Parts Name and Function

Front



Paper ejection guide

Printed coupons are ejected through the paper ejection guide.

Ink cartridge cover

Open the ink cartridge cover to load or replace the ink cartridge.

Roll paper cover

Open the roll paper cover to load or replace roll paper.

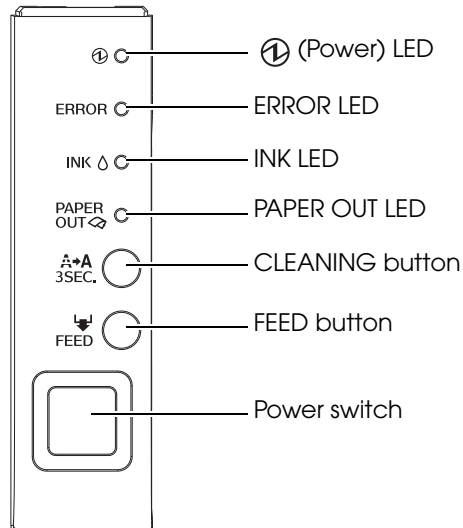
Control panel

See "[Control Panel](#)" on page 17.

Release lever

Press the release lever to open the roll paper cover.

Control Panel



(Power) LED: Green

- Lights when the power is on.
- Off when the power is off.
- Flashes when the printer is operating (initializing, charging ink, head cleaning, or printing) or in an error state.

CAUTION

Before turning off the printer, wait more than 10 seconds (so that the print head cap closes) after the printer finishes operating.

ERROR LED: Red

- Lights or flashes when the printer is offline.
- Off during normal operation (online).

INK LED: Red

- Flashes when the ink is low or waste ink in the ink cartridge is nearly full.
- Lights when it is time to replace the ink cartridge, when the ink cartridge is not installed or is not correctly installed, and when waste ink in the ink cartridge is full.
- Off when ink in the ink cartridge is adequate.

PAPER OUT LED: Red

- Lights when the remaining roll paper is near the end (ERROR LED is off), the paper is not installed or is not correctly installed (ERROR LED is on).
- Off when the paper is correctly installed.

NOTE

The printer status is also displayed with combinations of lighting and flashing of LEDs. See ["Status/Error Indications" on page 21](#) for details.

CLEANING button

When the printout is faint or dots are missing, pressing this button for 3 seconds or more performs print head cleaning.

CAUTION

To prevent ink waste, do not press the CLEANING button unless there is a problem with print quality.

FEED button

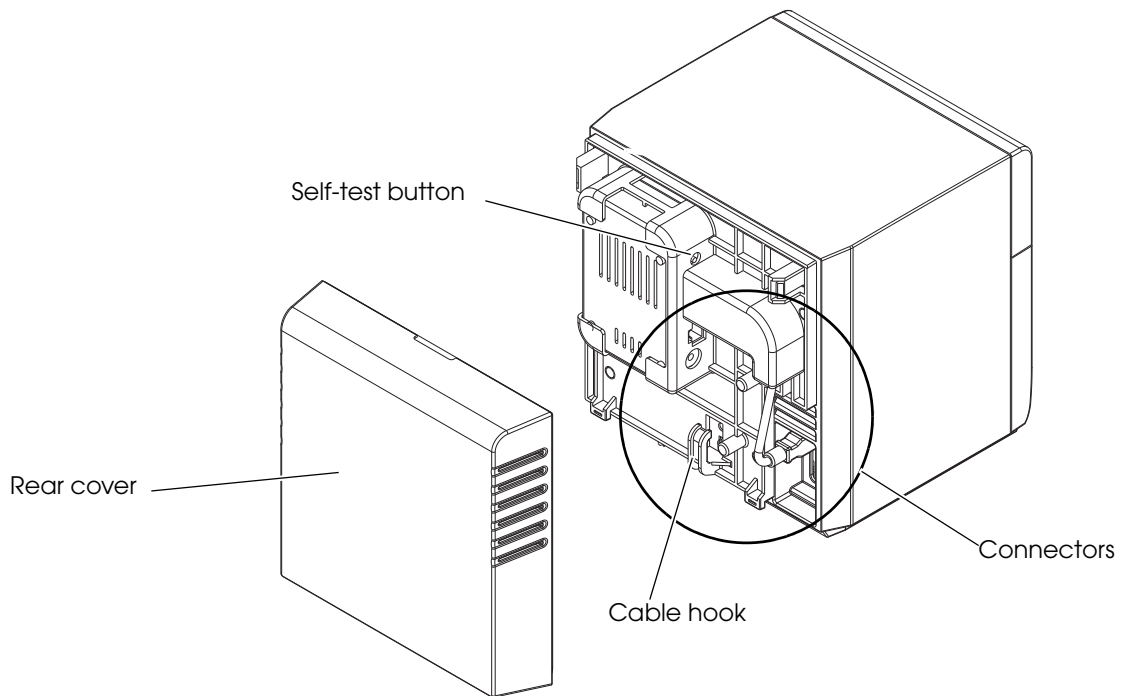
Feeds the roll paper. After feeding, autocutting is automatically performed.

- * The paper is fed 41.4 mm if the FEED button is pressed once.
- * If the FEED button is held down, the paper is continuously fed until the button is released. (15 seconds maximum)

Power switch

- Turns on the printer.
- Turns off the printer if pressed for 3 seconds or more.

Back



Rear cover

Remove it to connect the cables, or perform the self-test (only for the Ethernet interface model).

Cable hook

Hooks the cables to fix them.

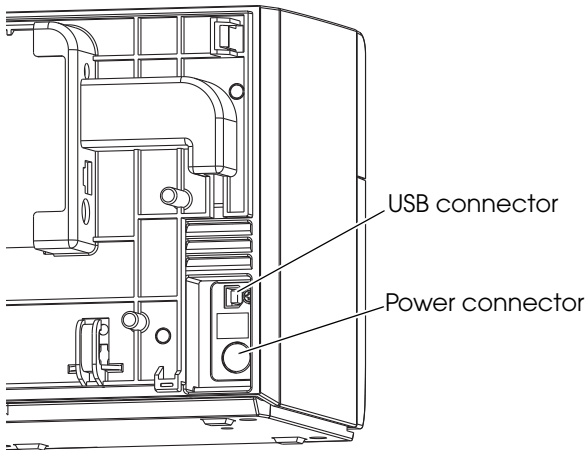
Self-test button (only for the Ethernet interface model)

For the Ethernet interface model, press this button to print the network setting information and the nozzle check pattern. For details, see ["Self-test" on page 94](#).

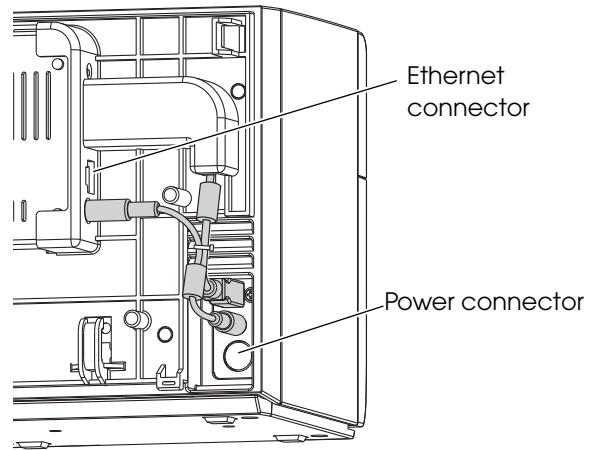
Connectors

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

USB interface model



Ethernet interface model



USB/Ethernet connector

Connects the printer with the host computer via each interface.

Power connector

Connects the cable of the AC adapter.

Offline

The printer does not have an online/offline switch.

Offline occurs under the following conditions. Though the printer cannot print while it is offline, it can communicate with the host computer.


















- During the printer mechanism is initializing after the printer is turned on or the interface is reset
- During the self-test
- When the ink cartridge cover or the roll paper cover is open.
- During paper feeding using the FEED button.
- When the printer stops printing because the roll paper is out.
- When the printer stops printing because the ink cartridge needs to be replaced.
- When the printer is waiting for recovery from a high-temperature error.

Status/Error Indications

The printer status is displayed with combination of lighting and flashing of LEDs.

When an error occurs, you can find out the cause and the remedy from the LED indication for the error.

 /  : Lights   : Flashes — : No change

| LED | | | | Status | Remedy |
|--|---|---|---|--|--|
|  (Power) | ERROR | INK | PAPER OUT | | |
|  | — | — | — | Power on | — |
|  | — | — | — | Charging ink Closing roll paper cover Saving or printing data | — |
|  (Hi-Speed) | — | — | — | Powering off | — |
|  |  | — | — | Maintenance requirement | The printer needs repair. |
|  |  | — |  | Fatal error | 1. Turn the power off. 2. Open the roll paper cover and remove the jammed paper if any. (See "Removing Jammed Paper" on page 65.) 3. Turn the power on. If the same error persists, the printer needs repair. |
| — |  | — | — | Ink cartridge cover open Roll paper cover open | Close the ink cartridge cover. Close the roll paper cover. |
| — | — |  | — | Ink is low Waste ink cartridge is nearly full | The time to replace the ink cartridge is close. Prepare a new ink cartridge. |
| — |  |  | — | Time to replace ink cartridge Waste ink cartridge is full | Replace the ink cartridge with a new one. (See "Replacing the Ink Cartridge" on page 61.) |
| — | — | — |  | Ink cartridge is not installed Ink cartridge is not installed correctly | Install the ink cartridge correctly. (See "Replacing the Ink Cartridge" on page 61.) |
| — | — | — |  | Roll paper is nearly out | The time to replace the roll paper is close. Prepare new roll paper. |
| — |  | — |  | Roll paper out | Replace the roll paper. (See "Replacing the Roll Paper" on page 63.) |


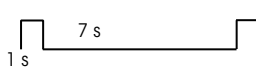

Buzzer

The buzzer beeps when an error occurs (when the ERROR LED lights or flashes).

Also, you can change whether or not the buzzer beeps for an error (see ["Buzzer Setting at the Time of Errors" on page 71](#)), and can set the buzzer to beep when printing finishes (see ["Autocutting and Buzzer Setting after Printing" on page 72](#)).

Frequency, volume, pattern, and repeat count can be changed for each printer status using control commands.

The default settings are described in the table below.

| Printer status | Frequency | Volume | Pattern | Repeat count |
|-------------------------------|-----------|--------|--|--------------|
| Fatal error | 1200 Hz | Loud |  | Unlimited |
| Maintenance requirement | 840 Hz | | | |
| Cover open | 1200 Hz | |  | |
| Time to replace ink cartridge | 1200 Hz | |  | |
| Roll paper out | 840 Hz | | | |

For the relationship between the buzzer frequency and volume, see the table below.

| Frequency | Volume: Soft | Volume: Loud |
|-----------|--------------|--------------|
| 840Hz | 50 dB | 62.5 dB |
| 1200Hz | 38 dB | 52 dB |

*The above values are the center values of the measurement.

Software

Various utilities are provided to system administrators and application developers.

| Purpose | Name | Specifications |
|---|--|---|
| Installing the printer driver | Printer Driver | Installs printer driver and executes port setting. |
| Distributing the printer driver and setting | Install Assistant | Creates an install package file for installing and setting the printer driver and executing the port setting. Activating the install package file automatically executes installing the printer driver, setting the printer driver and executing the port setting. The printer setting is not executed. Creates an install package for each printer for network printers. |
| Administering network printers | EPSON TMNet WinConfig | The user can set/check the network printer. Settings can be applied simultaneously to multiple printers. |
| | EPSON Net Config (Function of the printer) | The user can set/check the network information of the printer by entering IP address of the printer to the address bar of the Web browser. One printer can be set/checked. This cannot be used for a printer in the default condition since the IP address is not available. |
| Developing applications | Status API | Transmits the printer information (such as status of the printer and the ink cartridge, and print job information), and sets the buzzer to beep when an error occurs. Though Status API is prepared with the printer driver, you need to install it separately. |
| | Sample Program | Sample programs for using the TM-C610. (VB.NET and C++ for all programs. VB 6.0 and C# for some programs.) Header files and assembly files for .Net are included in the sample programs. (The assembly files for .Net are necessary to build a Status API-based application in the .Net environment.) |

Product Specifications

| | | |
|---|--|--|
| Printing method | Serial ink jet, dot matrix Three-color (CMY) printing | |
| Paper feed | Forward friction feed | |
| Autocutter | Cutting method | By separated-blade scissors |
| | Autocut type | Partial cut (one center point uncut) |
| Graphic resolution | 360 dpi × 180 dpi, 360 dpi × 360 dpi | |
| Print speed | 96 mm/s (printing width 53 mm, 360 dpi × 180 dpi) 49.8 mm/s (printing width 53 mm, 360 dpi × 360 dpi) The print speed is different depending on the resolution and the printing width. | |
| Roll paper (See "Paper Specifications" on page 26 for details) | Normal paper (single ply) | |
| Ink cartridge (See "Ink Cartridge" on page 29 for details.) | 3-color exclusive integrated ink cartridge (Model number: SJIC15P) | |
| Interface | USB model | USB 2.0 high speed |
| | Ethernet model | Ethernet (100 Base-TX/10 Base-T) |
| Temperatures/ humidity (See "Environmental Conditions" on page 31 for details.) | Printing | 10 to 35°C, {50 to 95°F}; 80%RH (no condensation) |
| | Storage | When packed (ink not installed): -20 to 60°C {-4 to 140°F}, 5 to 85%RH (no condensation) -20°C or 60°C {-4 or 140°F}; up to 120 hours Ink installed: -20 to 40°C {-4 to 104°F} -20°C {-4 °F}; up to 120 hours 0 to 30°C {32 to 86°F}; up to 6 months 40°C {104 °F}; up to a month |
| Overall dimensions (H × W × D) | 185 × 200 × 195 mm {7.28 × 7.87 × 7.68 in} | |
| Weight (mass) | Approximately 4 kg {8.8 lb} (Except for ink cartridge, roll paper, paper ejection tray) | |

Hardware Requirements

| | |
|----------|---|
| OS | Microsoft Windows Server 2008 R2 (64bit) Microsoft Windows Server 2008 SP2 (32/64bit) Microsoft Windows Server 2003 R2 SP2 (32/64bit) Microsoft Windows 7 (32/64bit) Microsoft Windows Vista SP2 (32/64bit) Microsoft Windows XP SP3 (32bit) Microsoft Windows XP SP2 (64bit) |
| Computer | Must support computers that run the above operating systems. <ul style="list-style-type: none"> • PC/AT compatible |
| CPU * | Computers with a processor of 1 GHz or better are recommended. Intel Pentium/Celeron series, AMD Athlon/Duron family, or processors that are compatible with these are recommended. |
| Memory* | 512 MB or larger is recommended |

*: Must meet the system requirements for the supported OS.

CAUTION

Up to 20 printers are supported on the network . If the minimum requirements above are not met, the printer may not be able to come up to its standard.

Printing Specifications

| | |
|-----------------|--|
| Printing method | Serial ink jet, dot matrix Three-color (CMY) printing |
| Print direction | Bi-directional |
| Paper feed | Forward friction feed |
| Print width | 53 mm {2.09"} max. |

Print mode

| Input resolution (horizontal × vertical) | Graphic resolution (horizontal × vertical) | Print direction | Print speed |
|---|---|--------------------|--|
| 180 × 180 dpi | 360 × 180 dpi | Bi-d | Print width 53 mm: 96 mm/s+10%-15% Print width 50 mm: 100 mm/s |
| 360 × 360 dpi | 360 × 360 dpi | Bi-d | Print width 53 mm: 49.8 mm/s+10%-15% Print width 50 mm: 51.4 mm/s |

dpi : dots per 25.4 mm (dots per inch)

Paper Specifications

| | | |
|------|---------------------------|---|
| Type | Normal paper (single-ply) | |
| Form | Paper roll | |
| Size | Outside diameter | 90 mm {3.54"} max. |
| | Paper core diameter | Inside: 12 mm {0.47"}, Outside: 18 mm {0.71"} |
| | Paper width | 57.5 {2.26"} ± 0.5 mm {0.02"} |

Barcode

Barcodes encodable by the printer driver

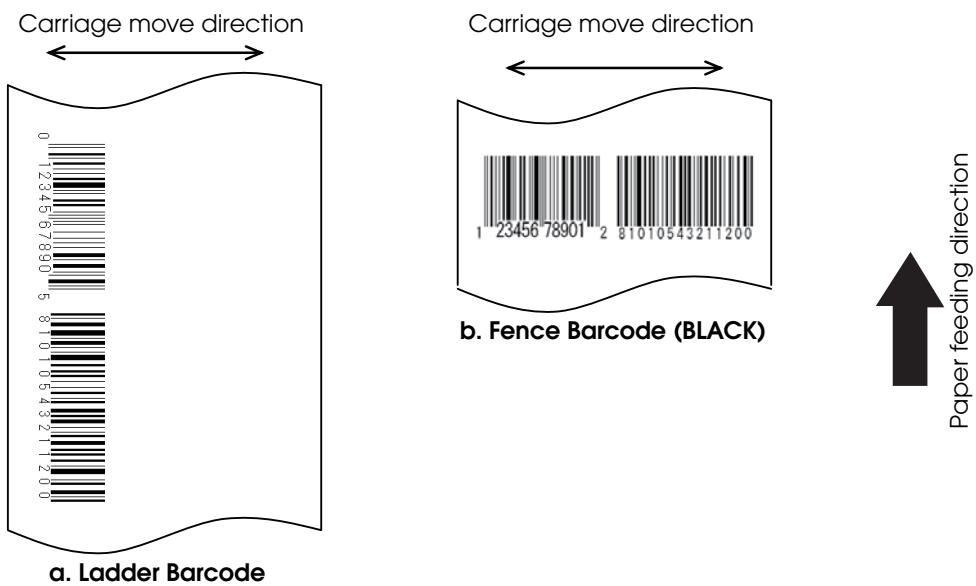
| | | |
|--|---|---|
| Barcode/ two-dimensional code printing | Barcode Identification rate: ANSI rank D (based on Seiko Epson Corporation standard) | UPC-A, UPC-E, JAN 8 (EAN 8), JAN 13 (EAN 13), GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded |
| | Two-dimensional code printing | GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked |

Creating the graphic data for barcode

If you want to create graphic data for barcodes, create data which meet the following conditions.

CAUTION

- Use black as the print color of the barcode on blank paper (not pre-printed).
- Barcode data should be created at 180 dpi × 180 dpi. At other resolutions, the barcode reader may return errors.
- Because of the characteristics of the ink, it may penetrate the paper, and bars of printed bar codes may become thicker. This depends on the paper. Users can maintain the bar code recognition rate by methods such as ± 1 correction, reducing the data in a bar by one pixel (180 dpi) and increasing the blank space by one pixel (180 dpi).



| | Barcode type | Detail | Module value |
|----------|----------------|----------------------|---------------------------------------|
| a | Ladder barcode | 360 × 180 dpi | 0.282 mm or more (180 dpi, 2 dots) |
| b | Fence barcode | 360 × 360 dpi, BLACK | 0.212 mm or more (360 dpi, 3 dots) |

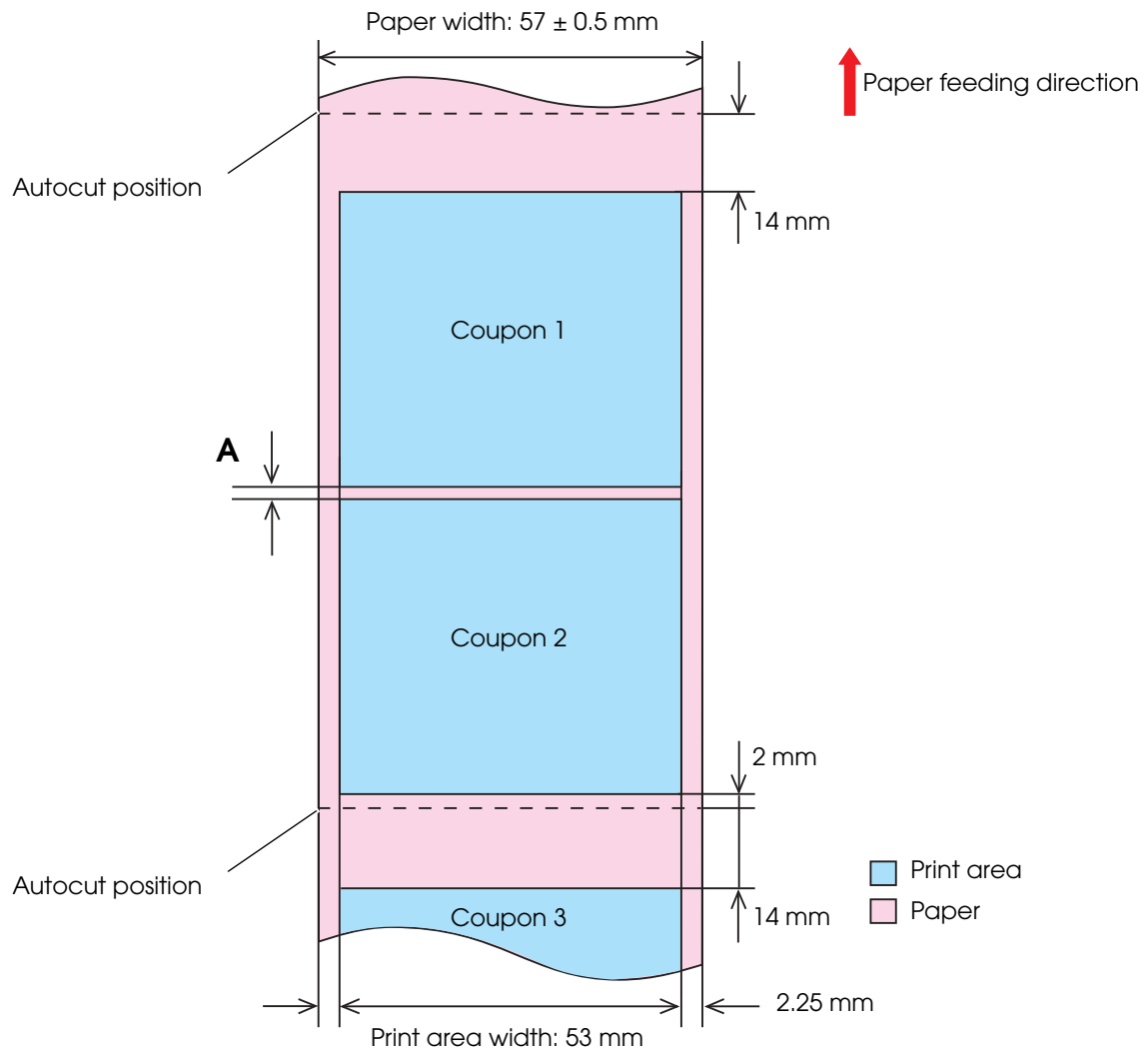
Print Area and Cutting Position

The minimum top margin (indicated as “A” in the illustration below) of a coupon after a previously printed one is described in the table below.

| a | b | Minimum top margin A |
|-----|-----|----------------------|
| 180 | 180 | 0 |
| 360 | 180 | 0 |
| 180 | 360 | 0.14 |
| 360 | 360 | 0.14 |

a: Resolution in paper feed direction of the previous printing

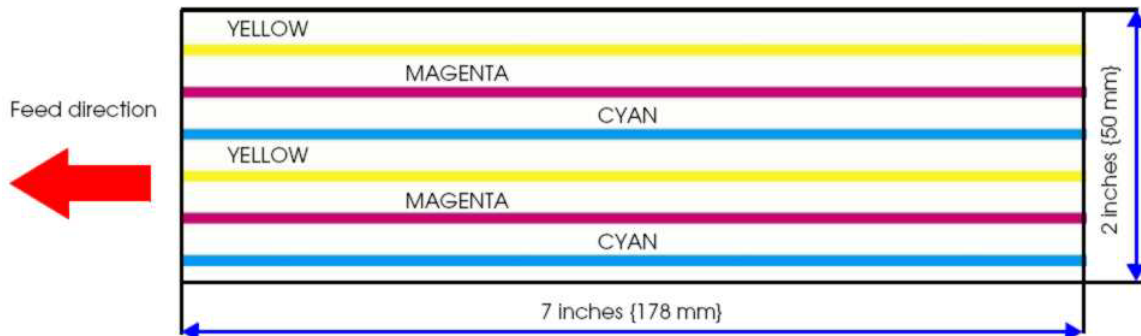
b: Resolution in paper feed direction of the next printing



Ink Cartridge

| | | |
|----------------------------|---|---|
| Model number | SJIC15P | |
| Type | 3-color exclusive integrated ink cartridge | |
| Ink color | Cyan, magenta, yellow | |
| Ink type | Pigment ink | |
| Ink life | 6 months after loading to the printer, 2 years after manufacturing | |
| Number of sheets printable | 3700 coupons/cartridge *(Print area 50 × 178 mm {1.97 × 7.01"} (as shown below), coverage of each color on the page: 25% 3 shots (Total 676,000 shots), when printing in 360 dpi × 180 dpi) * This figure is calculated based on printing an average of 52 sheets 24 hours a day (approximately 1 sheet per 28 minutes) after replacing the ink cartridge with a new one. | |
| Temperatures | Transport | -20 to 60°C {-4 to 140°F}(up to 5 days for 60°C {140°F}) |
| | Storage | -20 to 40°C{-4 to 104°F} (up to a month for 40°C {104°F}) |
| | Installation | -20 to 40°C {-4 to 104°F}(up to a month for 40°C {104°F}) |

Standard coupon



Electrical Characteristics

| | | |
|-----------------------|--|--------------------|
| Power supply | Power supplied by dedicated AC adapter | |
| Input voltage (rated) | AC 100 to 240V | |
| Frequency (rated) | 47 Hz to 63 Hz | |
| Power consumption | Operating | Approximately 13 W |
| | Idling | Approximately 3 W |

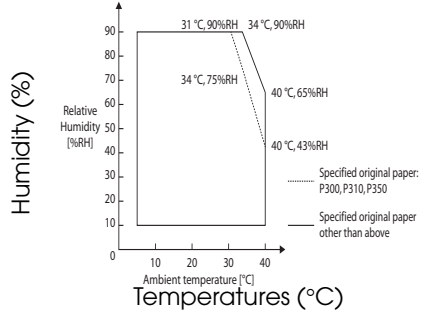
CAUTION

Be sure to use the dedicated AC adapter included in the product package.

Reliability

| | | |
|------|--|---|
| Life | Print head | 6,000 million shots/nozzle |
| | Autocutter mechanism | 500,000 cuts |
| | Carriage mechanism | 4 million passes (2 million carriage returns) |
| MTBF | Approximately 180,000 hours | |
| MCBF | Approximately 9,800,000 passes | |
| MPBF | 750 coupons (when printing standard coupons) | |

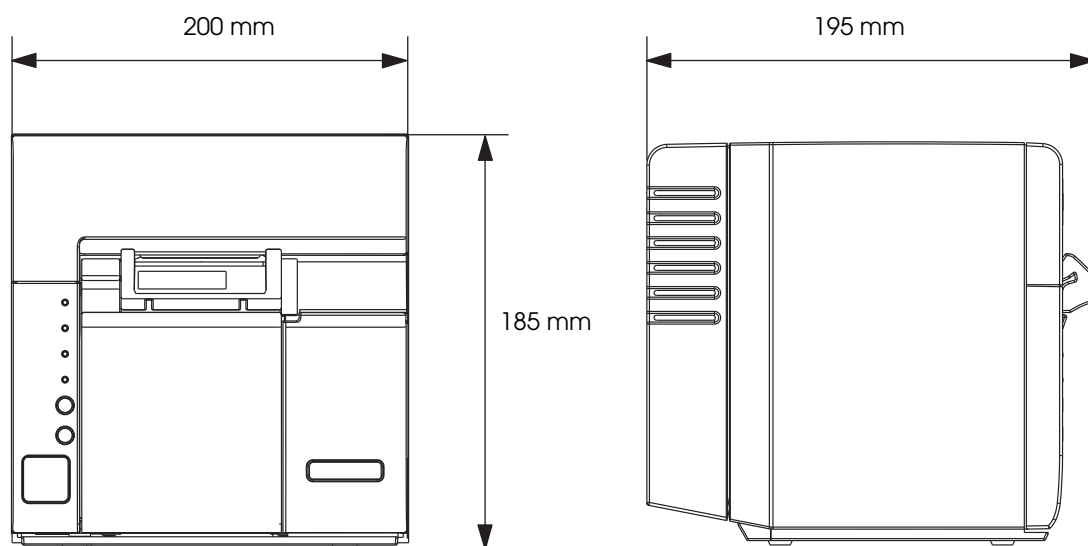
Environmental Conditions

| Item | | Specification |
|---------------------------|---|--|
| Temperatures/ humidity | Printing | 10 to 35°C {50 to 95°F}, 20 to 80%RH (no condensation)  |
| | Barcode printing | 15 to 35°C {50 to 95°F}, 20 to 80%RH (no condensation) |
| | Storage | When packed (ink not loaded): -20 to 60°C {-4 to 140°F}, 5 to 85%RH (no condensation) -20°C or 60°C {-4 or 140°F}: up to 120 hours Ink loaded: -20 to 40°C {-4 to 104°F} -20°C {-4°F}: up to 120 hours 0 to 30°C {32 to 86°F}: up to 6 months 40°C {104°F}: up to a month |
| Pressure (elevation) | Operating | 700 to 1060 hPa (approximately 0 to 2500 m above sea level) |
| | Not operating (including in transportation) | 700 to 1060 hPa (approximately 0 to 2500 m above sea level) |
| Acoustic noise | During operation (including using the autocutter) | Approximately 53 dB (ANSI Bystander position) (Based on Epson evaluation conditions including the use of the autocutter) |

1

External Dimensions

- Height: 185 mm {7.28"}
- Width: 200 mm {7.87"}
- Depth: 195 mm {7.68"}



Restrictions

Printer environment

- Drivers for TM printers (APD, OPS/JavaPOS) of Seiko Epson Corporation cannot be used for this printer.
The TM-C610 printer driver can be installed and used on a computer with the APD and OPS/JavaPOS installed.

Installation environment for the printer driver

- The printer driver for the Ethernet interface model cannot be installed with a USB interface model printer connected. In this case, turn off the USB interface model printer before installing the printer driver for the Ethernet interface model.
- When the printer driver is installed using point and print, printing can be performed but the printer status cannot be obtained.
- When setting the printer driver using point and print, setting may be made by accessing the server via a network. Be sure to make the setting with the printer connected.
- When using a shared printer and a local printer on one client computer, install the printer driver for the local printer before installing the printer driver for the shared printer.
- When using this printer in the same environment as a version of the APD earlier than APD 4.03, Install the APD first, and then install the printer driver for this printer.

Install package of the printer driver

- When the printer driver is installed using the install package of the USB interface model, the status of other computers on the network cannot be acquired, even if the setting for sharing this printer is made. And the status cannot be acquired with Status API or other applications; however, printing is possible. To avoid the limitations, install the printer driver without using the install package, and make the settings.
- The following settings are not reflected in the install package
 - [Select the folder] in [Driver Preferences] in the [Driver Utilities] tab.
 - All information in [EPSON Log File Settings] in the [Driver Utilities]
 - Whether or not [Always show current settings.] in the [Current settings] screen is checked

Printing

- For the USB interface model, it takes time for the next printing if you turn the printer off and on after printing.
- The ink cartridge contains 3 colors of ink. Even when one particular color is specified, all 3 colors of ink are used for printing and for keeping the print head in good condition. When the ink level of even one color reaches the lowest limit, the printer stops printing.
- The colors of printouts may become abnormal if you tilt this printer or subject the printer to any shocks. When you move this printer after ink charging, check the colors by performing a test print.

If the colors of printouts are not normal, perform head cleaning. See "[Head Cleaning](#)" on page 98 for how to perform head cleaning.

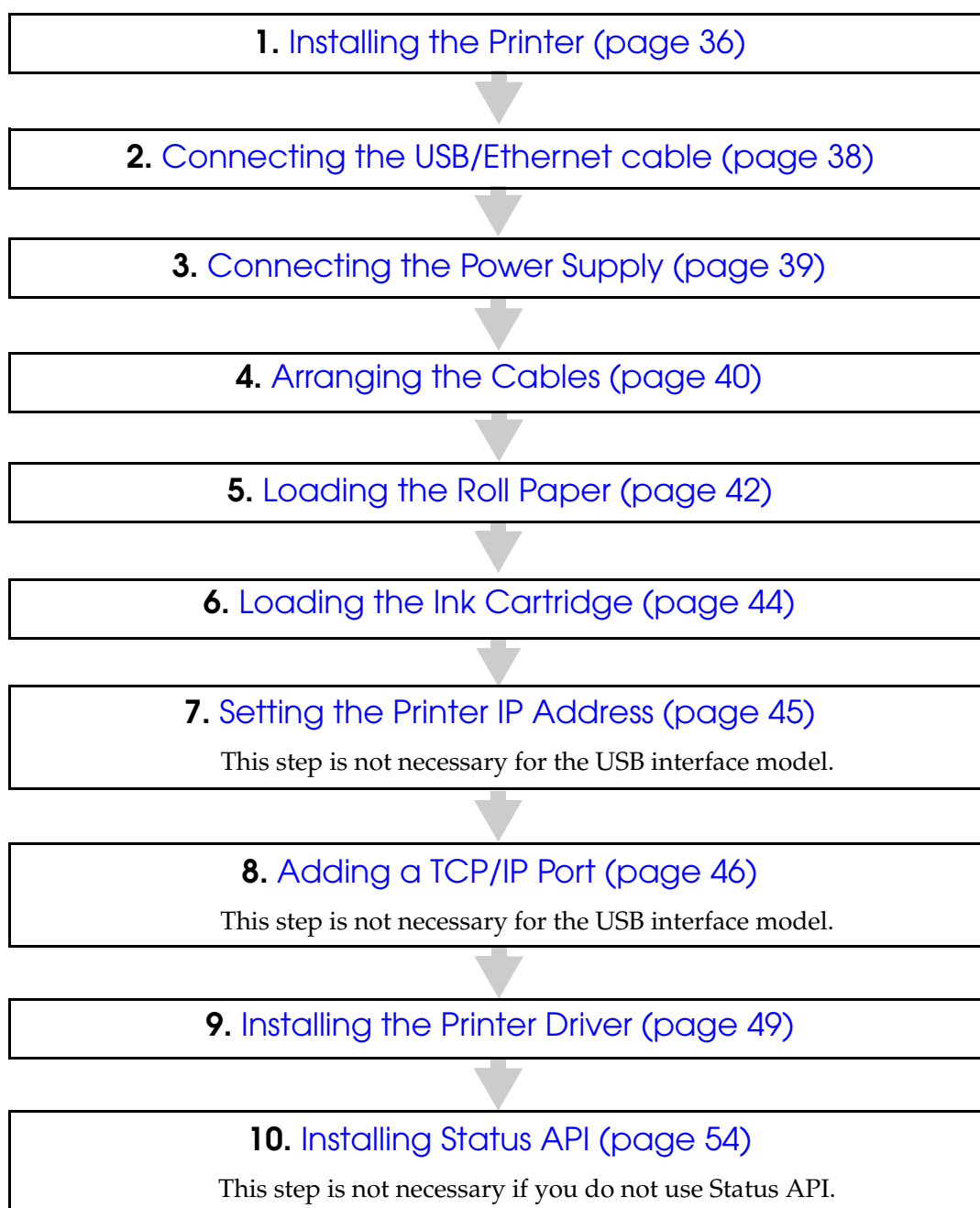
- When printing image data, white lines (lines shown in white) or black lines (overlapping of image parts) may appear at about 1 inch intervals in the print result. By setting (Print Head Alignment) - (Media Feed Adjustment) in (Maintenance And Utilities) tab, this can be reduced but cannot be removed completely.
- When printing image data, change of color tone may appear at 1 inch intervals in the print result.

Setup

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

Flow of Setup

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

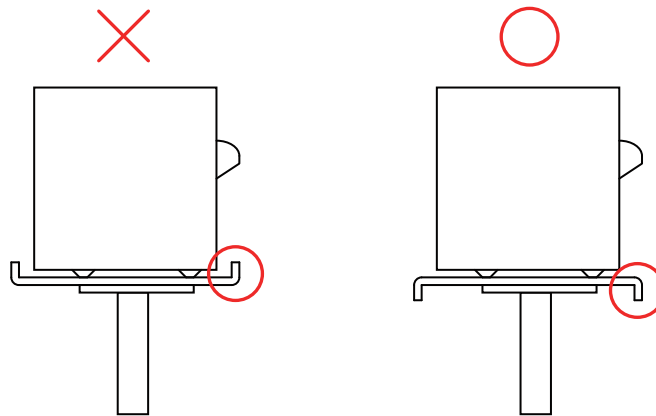


Installing the Printer

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

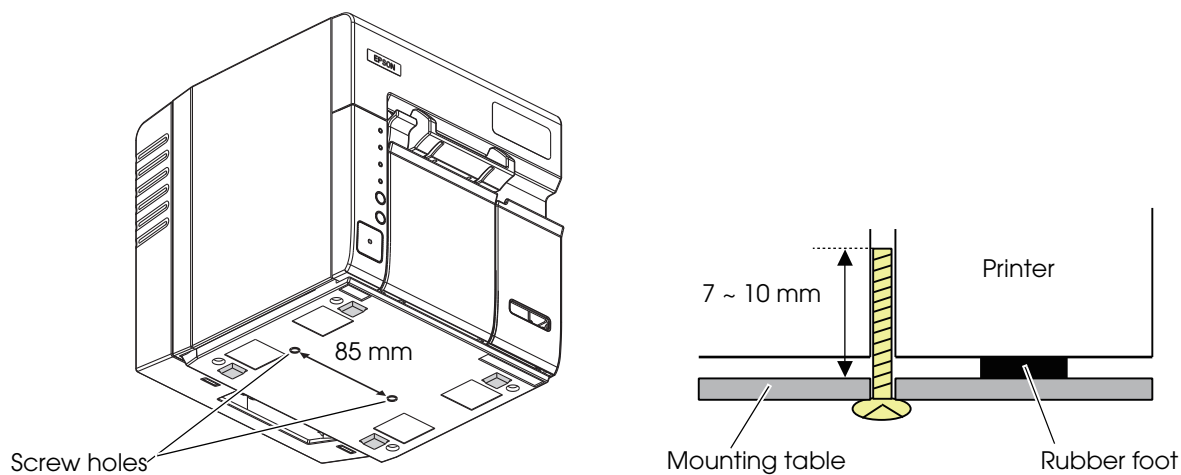
Important Notes on Installation

- Do not place the printer in a dusty location.
- 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, and be careful not to place an obstacle in front of the printer, especially when you install the printer on a mounting table.



- If you install the printer in a location where it could fall during operation, make sure to secure the printer with screws.

- When installing the printer on a mounting table, secure the printer with two screws (M4) or fix it with affixing tape. Use screws between 7 and 10 mm {0.28 and 0.39"} long from the ground point of the rubber foot on the printer.



- Do not allow cables to catch or foreign matter to accumulate under the printer.
- Do not subject the printer to impact during operation. Otherwise, print problems may occur.

Connecting the USB/Ethernet cable

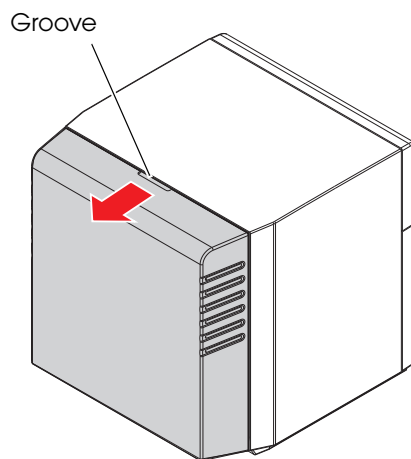
For the USB interface model, connect the USB cable, for the Ethernet interface model, connect the Ethernet cable to the printer.



CAUTION

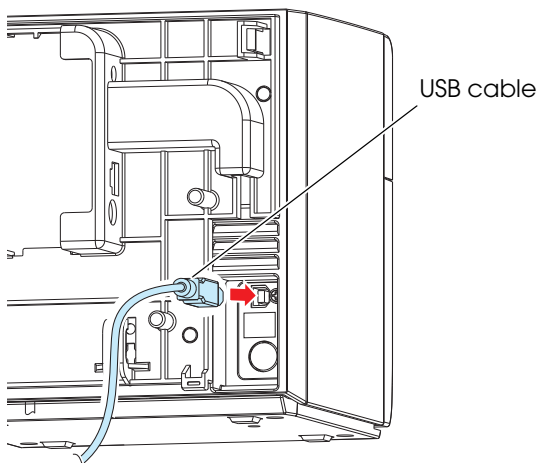
- When Ethernet cables are installed outdoors, make sure devices without proper surge protection are cushioned by being connected through devices that do have surge protection. Otherwise, the devices can be damaged by lightning.
- Never attempt to connect a standard telephone line cable to the 10/100BASE-T LAN connector.

- 1 Put your finger on the groove in the upper part of the rear cover, and pull it backward to remove it.

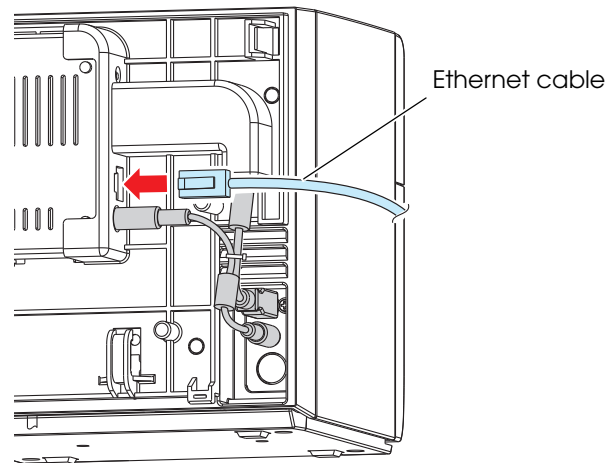


- 2 For the USB interface model, connect the USB cable to the connector, as shown below. For the Ethernet interface model, connect the Ethernet cable to the connector until it clicks.

USB interface model



Ethernet interface model



Connecting the Power Supply

Connect the included AC adapter to the printer.

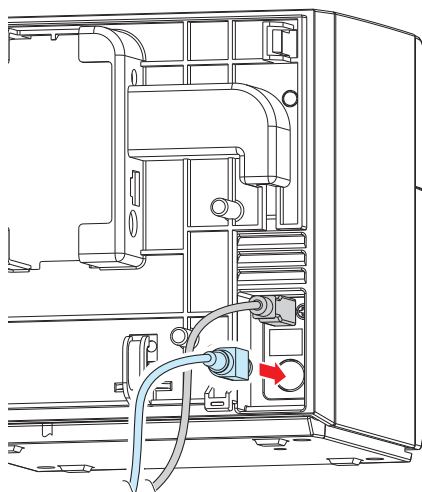


WARNING

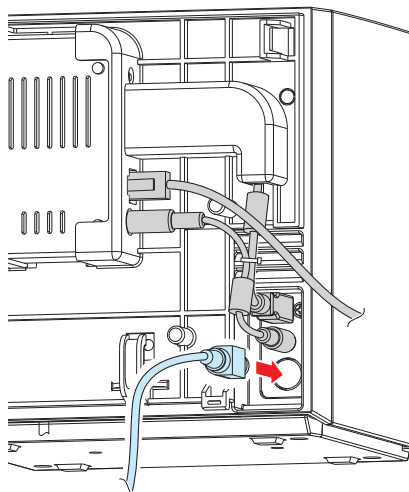
- **Always use the included AC adapter.**
Using a nonstandard power supply can result in electric shock or fire.
- **Use an AC cable that meets safety standards of each country.**
- **Should a fault ever occur, immediately turn off the power to the printer and remove the power supply cable from the wall socket.**

- 1** Insert the connector of the AC cable to the inlet of the AC adapter.
- 2** Connect the DC cable of the AC adapter to the power connector of the printer.

USB interface model

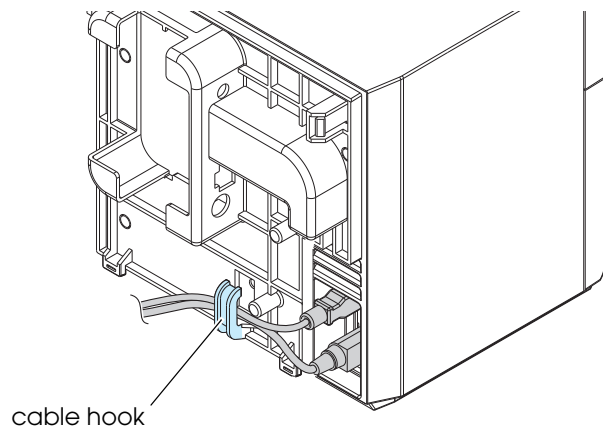


Ethernet interface model

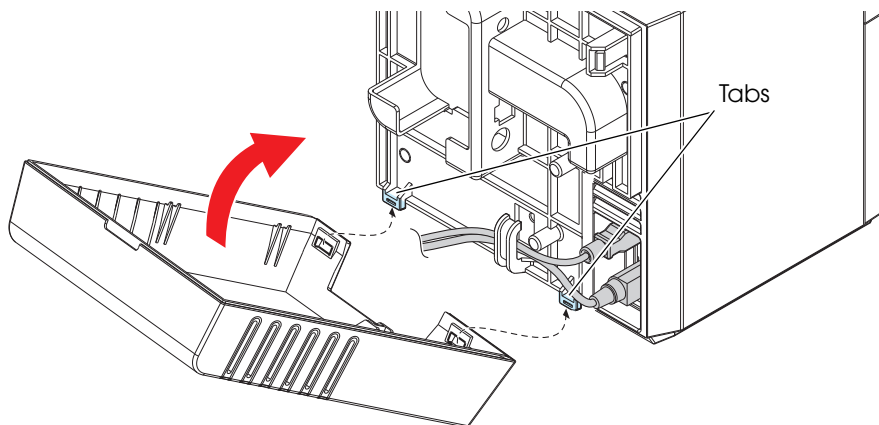


Arranging the Cables

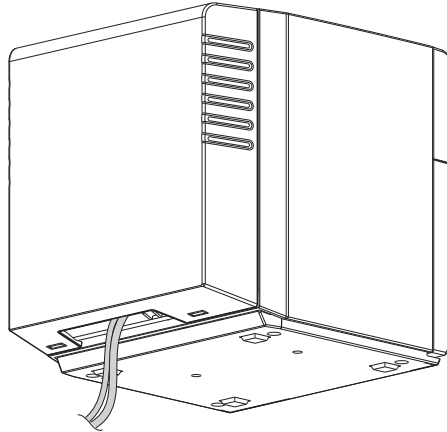
- 1 Hook all the connected cables on the cable hook.



- 2 Align the 2 tabs at the bottom of the printer back with the holes in the rear cover, and close the rear cover.



- 3 Make sure the cables pass through the notch at the bottom of the rear cover, and are not pinched.

**CAUTION**

Be sure to use the printer with the rear cover attached.

- 4 Insert the power plug of the AC cable into the wall socket.

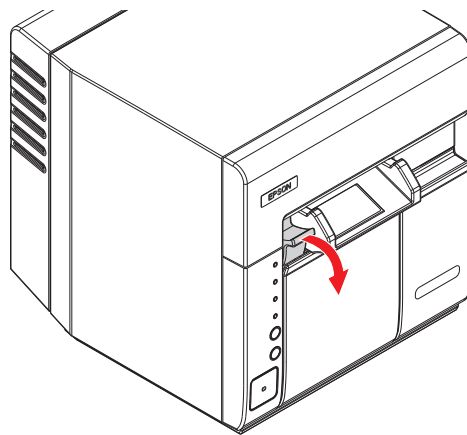
**CAUTION**

- **Be sure to remove the AC cable from the wall socket whenever connecting or disconnecting the AC cable to the printer.**
Failure to do so may result in damage to the AC adapter or the printer.
- **Make sure the wall socket power supply satisfies the rated voltage requirements of the AC adapter. Never insert the AC cable into a socket that does not meet the rated voltage requirements of the AC adapter.**
Doing so may result in damage to both the AC adapter and the printer.

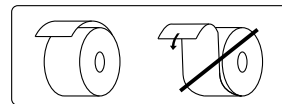
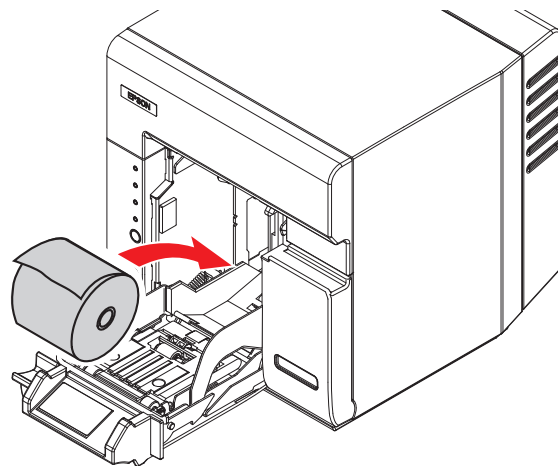
Loading the Roll Paper

Follow the steps below to load the roll paper.

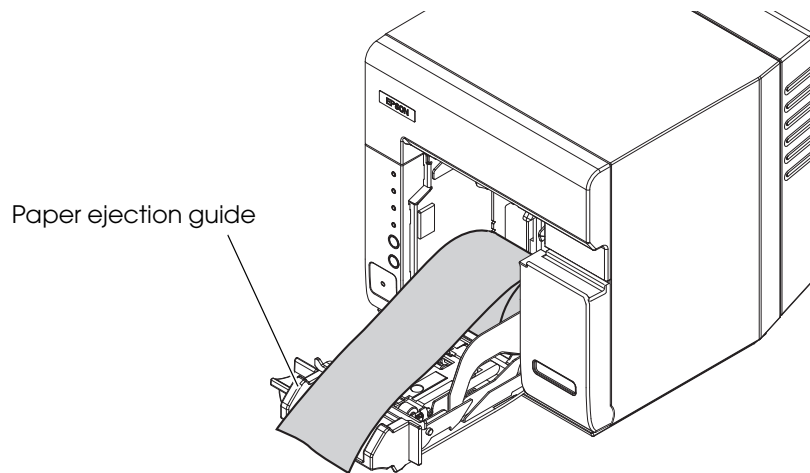
- 1** Turn on the printer.
- 2** Press down the release lever, and pull it to the front to open the roll paper cover.



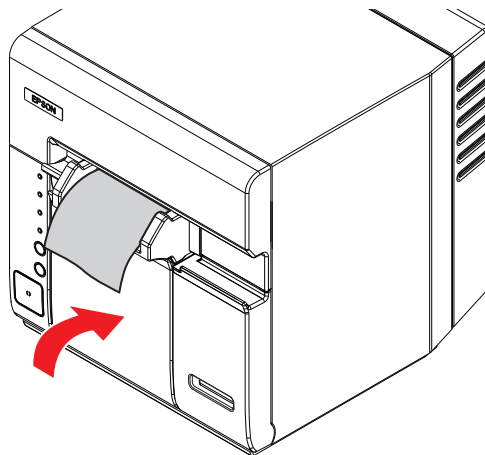
- 3** Load the roll paper in the orientation shown below.



- 4** Pull out the paper end to the paper exit along the paper ejection guide.



- 5** Close the roll paper cover.
Roll paper is automatically fed about 10 cm {3.9"}, and then autocutting is performed.

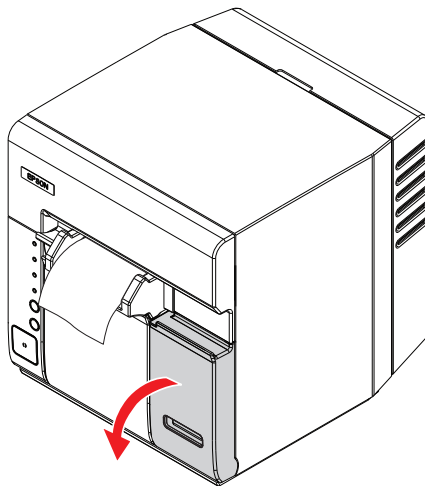


Loading the Ink Cartridge

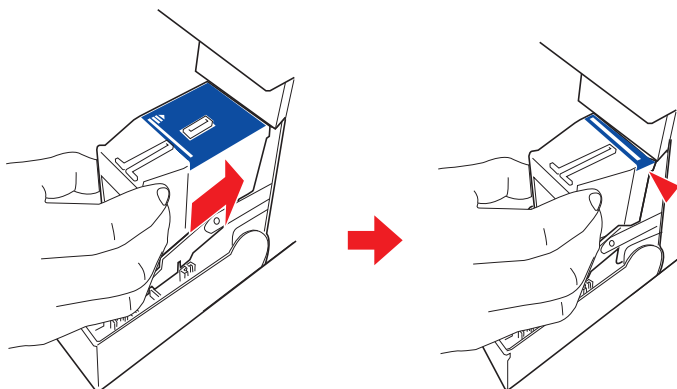
CAUTION

- Always use the EPSON SJIC15P ink cartridge.
- Do not open the package of the ink cartridge until you are ready to load it in the printer.

- 1** Pull the ink cartridge cover to the front to open it.



- 2** Shake the new ink cartridge package 4 or 5 times before opening it and then take the ink cartridge out of the package.
- 3** Push the ink cartridge gently into the cartridge holder as shown below. Insert with the arrow side up.



4 Close the ink cartridge cover.

When the ink cartridge is installed for the first time, the Ⓜ (Power) LED starts flashing, and ink charging starts. Ink charging takes approximately 4 minutes. In the meantime, do not turn off the printer or open the roll paper cover or the ink cartridge cover. Doing so wastes ink significantly.

When ink charging finishes, the Ⓜ (Power) LED stays on (not flashing).

NOTE

- When the ink cartridge is loaded for the first time, the printer uses ink to prepare for printing (initial ink charge), therefore, the first replacement period is shorter than normal.
- The colors of printouts may become abnormal if you tilt this printer or subject the printer to any shocks after ink is charged. When you move this printer after ink charging, check the colors by performing a test print.
If the colors of printouts are not normal, perform head cleaning. See "Head Cleaning" on page 98 for how to perform head cleaning.
- Ink consumption differs, depending on printer conditions, such as printing and cleaning.
- To prevent ink waste, do not insert and remove the ink cartridge other than when replacing it.
- To maintain the quality of print head, the INK LED lights even though some ink remains in the cartridge.

Setting the Printer IP Address

This setting is necessary only for the Ethernet interface model.

Connect the printer to the network via a hub using the Ethernet cable.

Set an IP address to the printer with EPSON TMNet Config.

You can download EPSON TMNet Config from the following URL.

<http://www.epson.jp/business/>



- **When Ethernet cables are installed outdoors, make sure devices without proper surge protection are cushioned by being connected through devices that do have surge protection.** Otherwise, the devices can be damaged by lightning.
- **Never attempt to connect a standard telephone line cable to the 10/100BASE-T LAN connector.**

CAUTION

Make sure the Ethernet cable is connected to the printer, and the printer is turned on.

Adding a TCP/IP Port

This procedure is necessary only for Ethernet model, and unnecessary for the USB interface model.

Follow the steps below to add a TCP/IP Port.

CAUTION

Make sure the Ethernet cable is connected to the printer, and the printer is turned on.

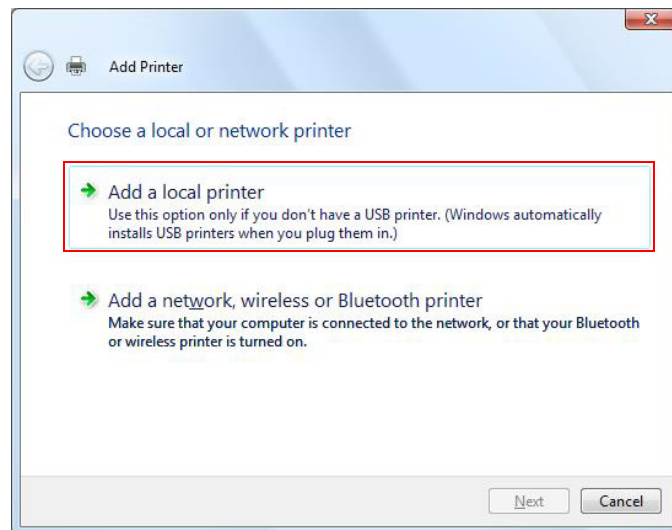
- 1 Select **(Start)** - **(Control Panel)** - **(Printer)** on the computer.

NOTE

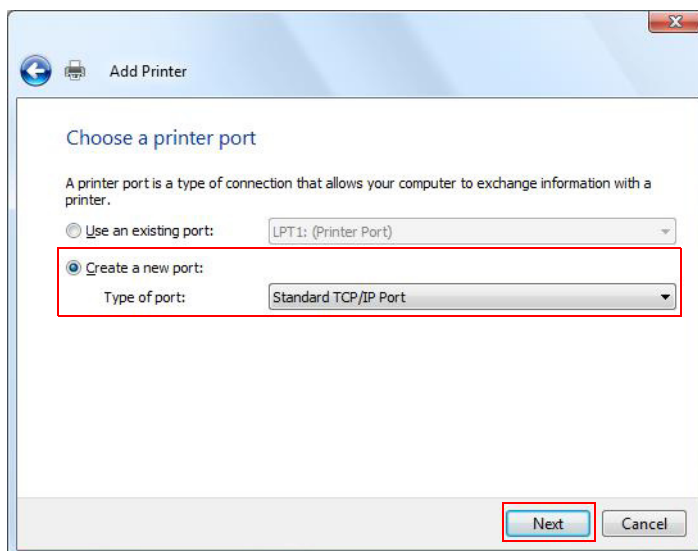
Menus to select are different for each OS. For details, see below.

- Windows Vista
[Start] - [Control Panel] - [Printers]
- Windows XP
[Start] - [Control Panel] - [Printers and Faxes]

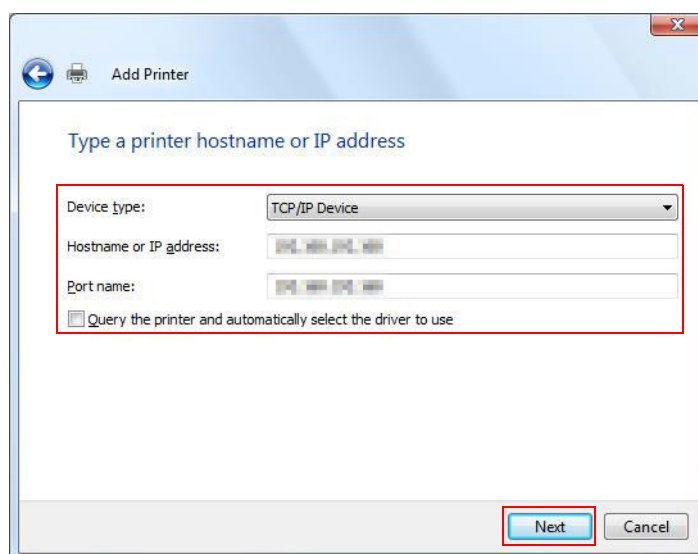
- 2 Select **(File)** - **(Add Printer)** from the menu.
- 3 Select **(Add a local printer)**.



- 4 Select **(Create a new port:)**, select **(Standard TCP/IP Port)** in “**Type of port,**” and click **(Next)**.

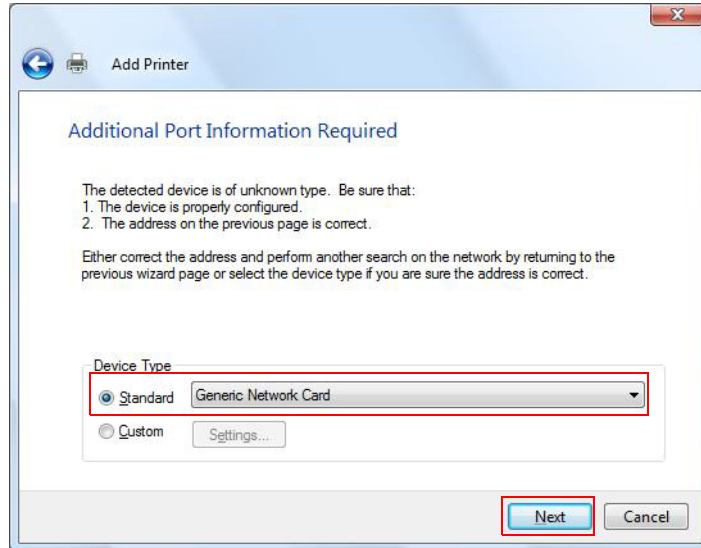


- 5 Set the items by referring to the table below, and click **(Next)**.

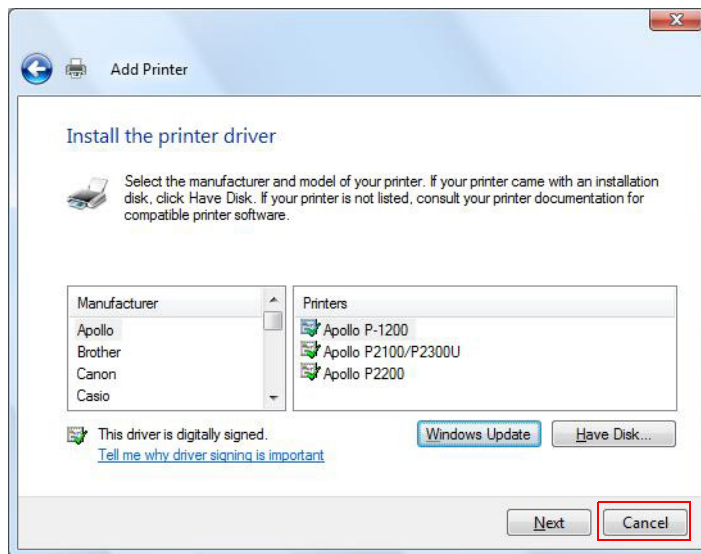


| Item | Setting value |
|--|---|
| Device type | TCP/IP Device |
| Hostname or IP address | IP address set to the printer |
| Port name | Setting values in “Hostname or IP address” are automatically input. |
| Query the printer and automatically select the driver to use | Uncheck the checkbox. |

- 6 Select **(Standard)**, and **(Generic Network Card)** in “**Device Type**.” Then click **(Next)**.



- 7 Click **(Cancel)**.
Do not install the printer driver in this step.



The addition of the TCP/IP port is completed.

Installing the Printer Driver

The installation procedure is different between the USB interface model and the Ethernet interface model.

CAUTION

- Make sure to log on as an administrator to install the printer driver.
- Before installing, check the hardware requirements. (See "[Hardware Requirements](#)" on page 25.)

For USB Interface Model

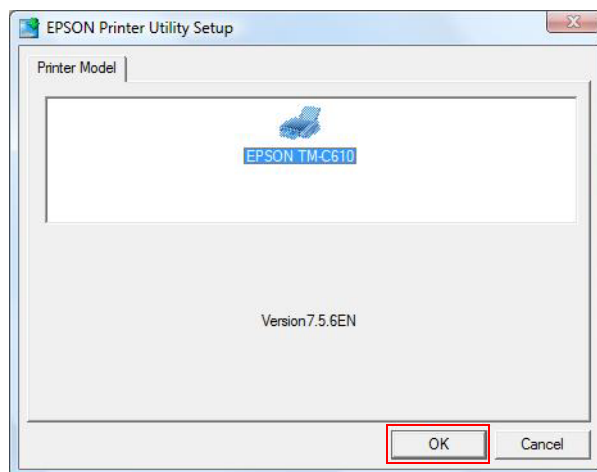
Follow the steps below to install the printer driver.

- 1 Connect the printer to the computer.

CAUTION

Turn off the printer before installing. You need to turn it on during installation by following the instructions.

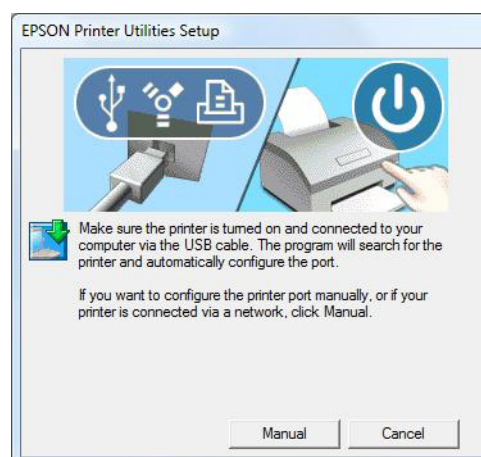
- 2 For a 32bit OS, double-click the icon "c61d32_xxxx.exe."
For a 64bit OS, double-click the icon "c61d64_xxxx.exe."
- 3 If the "User Account Control" screen is displayed, click **(OK)**.
- 4 Select **(EPSON TM-C610)**, and click **(OK)**.



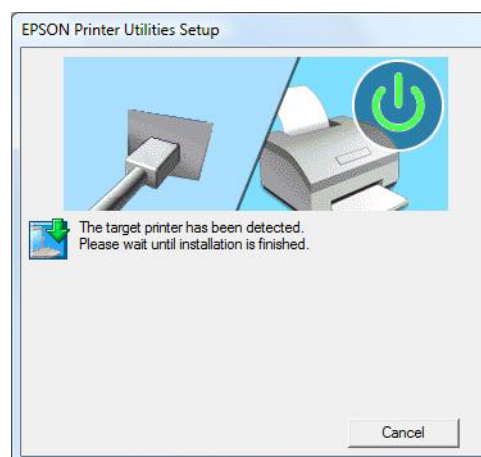
5 Read the Licence Agreement, and click **(Accept)**.



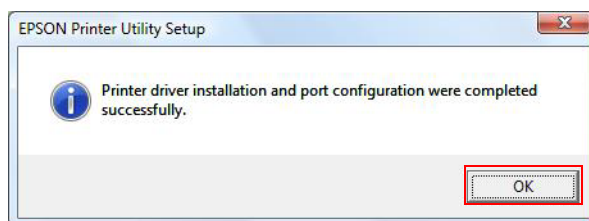
6 Make sure the printer is connected to the computer, and turn on the printer.



The following screen is displayed, and installation of the driver starts.



- 7** When the installation finishes, the following screen is displayed. Click **(OK)** to close the screen.



The installation of the printer driver is completed.

For Ethernet Interface Model

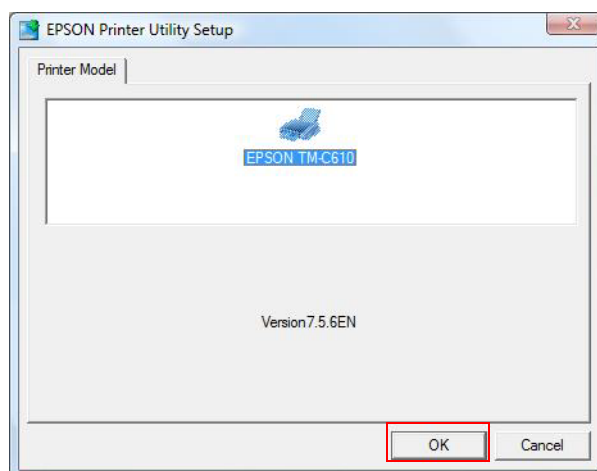
Before installing the printer driver, set an IP address to the printer, and add a TCP/IP port. (See ["Setting the Printer IP Address"](#) on page 45 and ["Adding a TCP/IP Port"](#) on page 46.)

CAUTION

- The printer driver for the Ethernet interface model cannot be installed with a USB interface model printer connected. In this case, turn off the USB interface model printer before installing the printer driver for the Ethernet interface model.
- Make sure the Ethernet cable is connected to the printer, and the printer is turned on.

Follow the steps below to install the printer driver.

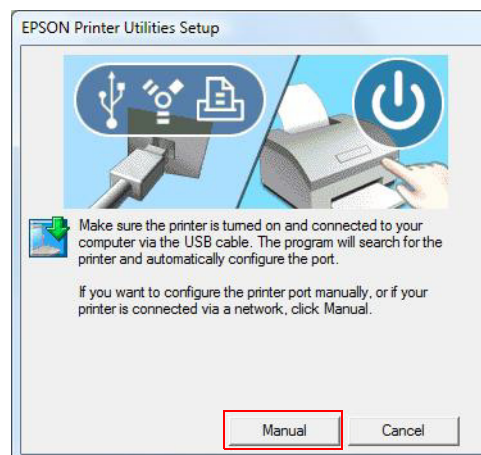
- 1** For a 32bit OS, double-click the icon "c61d32_xxxx.exe."
For a 64bit OS, double-click the icon "c61d64_xxxx.exe."
- 2** If the "User Account Control" screen is displayed, click **(OK)**.
- 3** Select **(EPSON TM-C610)**, and click **(OK)**.



4 Read the Licence Agreement, and click **(Accept)**.

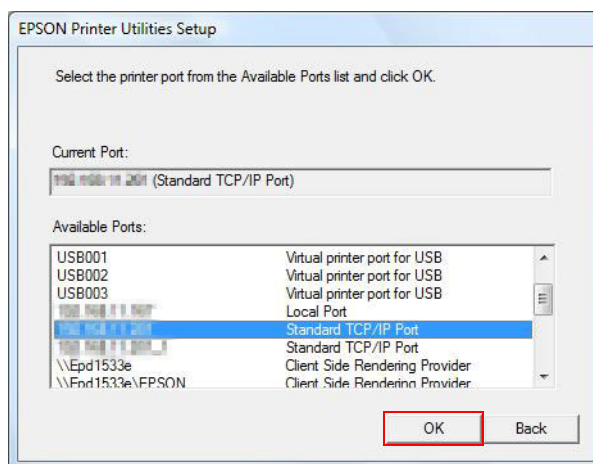


5 Click **(Manual)**.

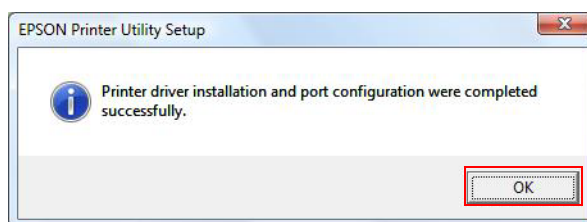


- 6** From “**Available Ports**,” select the port added in “[Adding a TCP/IP Port](#)” on page 46, and click **(OK)**.

The installation of the printer driver starts.



- 7** When the installation finishes, the following screen is displayed. Click **(OK)** to close the screen.



The installation of the printer driver is completed.

Installing Status API

If you want to use Status API, install Status API after installing the printer driver.

Programming Status API enables you to acquire the printer status with your application.

CAUTION

Install the printer driver before installing Status API. ("[Installing the Printer Driver](#)" on page 49.)

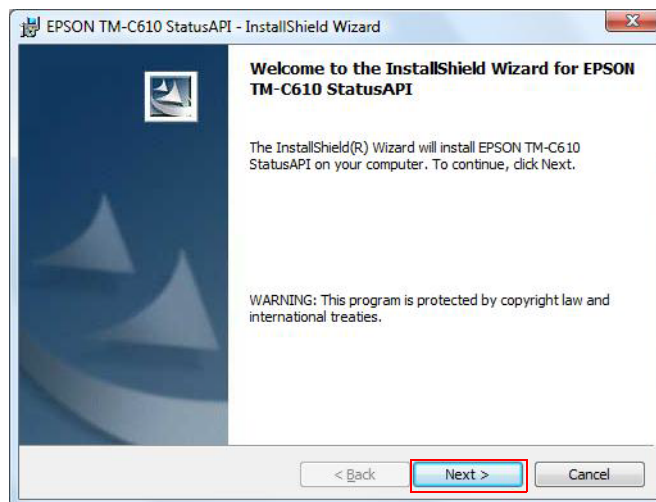
NOTE

To install it without displaying the window, add the command (/s /v"/qn") to the install file name for Status API.

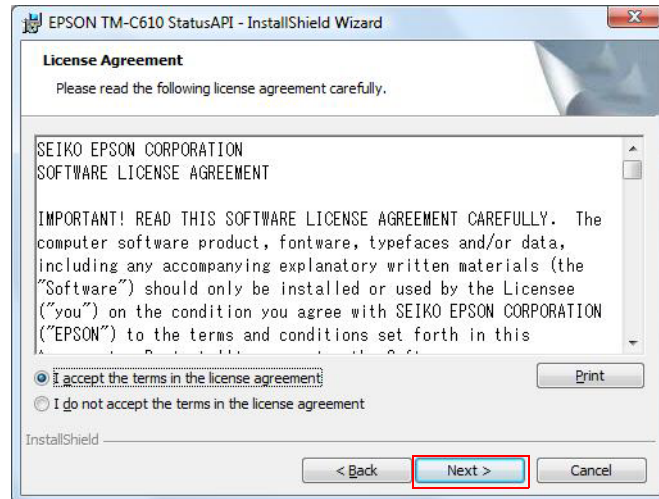
e.g: c61sapi32_10.exe /s /v"/qn"

Follow the steps below to install Status API.

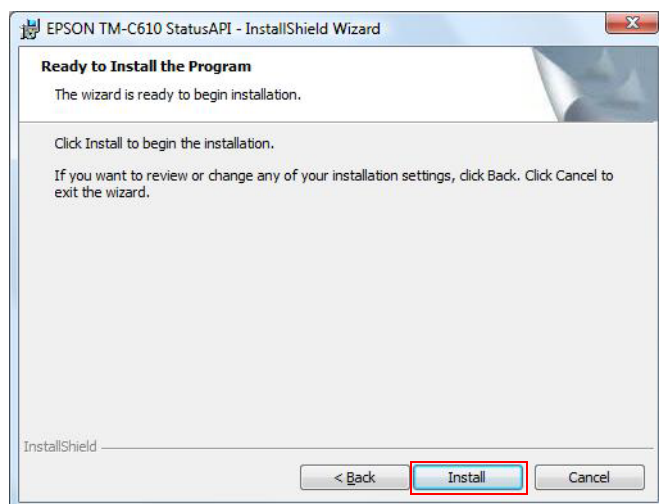
- 1 For a 32bit OS, double-click the icon "c61sapi32_xx.exe."
For a 64bit OS, double-click the icon "c61sapi64_xx.exe."
Destination for "c61sapi32_xx.exe":
<execution folder for "c61d32_xxxx.exe">/c61d32_xxxx/WINVISTA_XP_2K/STATUSAPI
Destination for "c61sapi64_xx.exe":
<execution folder for "c61d64_xxxx.exe">/c61d64_xxxx/WINVISTA_XP_2K/STATUSAPI
- 2 The "EPSON TM-C610 StatusAPI - InstallShield Wizard" screen is displayed.
Click (**Next**).



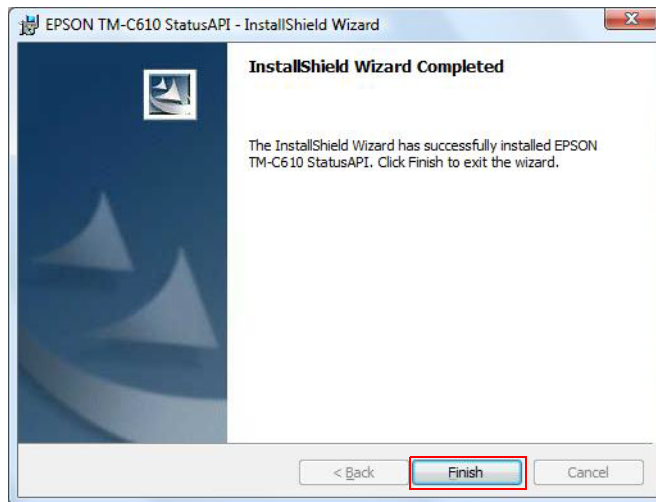
- The "License Agreement" screen is displayed. Read the Licence Agreement, and select (**I accept the terms in the license agreement**). Then Click (**Next**).



- The "Ready to Install the Program" screen is displayed. Click (**Install**) to start the installation.



- 5 If the "User Account Control" screen is displayed, click (**Continue**).
- 6 The "InstallShield Wizard Completed" screen is displayed. Click (**Finish**).



The installation of Status API is completed.

Application Development Information

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

Overview

The following is provided for use of this printer.

- ❑ A dedicated printer driver for Windows is available. For details on how to use the printer driver, see ["How to Use the Printer Driver" on page 66](#).
- ❑ A Status API that can be used with your applications is available.
Though Status API is prepared with the printer driver, you need to install it separately.
- ❑ Various utilities and user's manuals are available.
- ❑ Dedicated sample programs for the TM-C610 are available.
Use them as a reference for developing applications.

CAUTION

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

Printer Driver

The printer driver has the following functions, so it is not necessary to implement them in applications.

- ❑ Barcode and 2D symbol fonts are implemented. The barcode and 2D symbol fonts can be printed using the font replacement function for .NET environment.
The barcode and 2D symbol font must be set in advance in the printer driver to use this function. (See ["Barcode Printing" on page 73](#) and ["2D Symbol Printing" on page 79](#) for details of how to make the setting.)
In the .NET environment, a TrueType font is specified to be replaced by barcode and 2D symbol fonts. The barcodes and 2D symbols can be printed by specifying a replaced TrueType font from the application. (See ["Barcode and 2D Symbol Font Printing on .NET Environment" on page 83](#) for details about the font replacement function.)

Status API

With Status API, you can transmit the printer status (such as printer and ink cartridge status and print job information) to your applications, and can set the buzzer to beep when an error such as a cover open occurs.

(Header files and assembly files for .Net are included in the sample programs.)

Sample Program

Refer to the TM-C610 sample programs to develop the application using this printer.

□ Features of TM-C610 sample programs

- Programs are provided in the step-up method from the basic ones to the advanced ones. This helps you to learn how to control the printer.
- Program files are provided in the exe format and the source format.
- Header files and assembly files for .Net are provided.
(The assembly files for .Net are necessary to build a Status API-based application in the .Net environment.)
- Development environment: Visual Studio 2005/Visual Studio 6.0
- Development language: C++, VB.NET, C#, VB6.0 (C# and VB6.0 are not provided for some programs.)

□ Structure of TM-C610 sample programs

The following is the structure and language used for TM-C610 sample program.

| Level | Program name | Specification | Language | | | |
|-------|---------------------------------------|---|----------|----|--------|-------|
| | | | C++ | C# | VB.NET | VB6.0 |
| Basic | Step 1. Printing characters | Basic print program | √ | — | √ | — |
| | Step 2. Printing bar codes | Sets barcode font in advance to use for print program. | √ | — | √ | — |
| | Step 3. Printing graphics | The program to print graphics | √ | √ | √ | √ |
| | Step 4. Confirming the printer status | Checks the printer condition before printing and executes error handling. | √ | — | √ | — |

| Level | Program name | Specification | Language | | | |
|----------|--|--|----------|----|--------|-------|
| | | | C++ | C# | VB.NET | VB6.0 |
| Basic | Step 5. Call-back process | When the condition of the printer changes, the printer can cause actions to occur in the application, and executes error handling. | √ | — | √ | — |
| | Complete basic features | The program from Step 1 to 5 | √ | √ | √ | √ |
| Advanced | Monitoring the printer status and controlling print jobs | Cancels a print job when a paper end is detected. | √ | — | √ | — |
| | DEVMODE | Executes a 90-degree rotation or changes the number of copies in the application. | √ | — | √ | — |
| | | Changes the number of copies in the application. | √ | — | √ | — |
| | Obtaining the print completion | Acquires the print completion. | √ | √ | √ | √ |

Utilities and Manuals

Several kinds of utilities and manuals other than the printer driver and this manual are available for this printer.

Install Assistant

This is the utility to put together the setting information of the installed driver and the installer of the driver as a package file.

The driver is installed with the same settings as the original computer when the package is executed on a different computer, and this makes it easy to install the printer driver on the several computers.

NOTE

- When reinstalling the Install Assistant in an environment where the Install Assistant has already been installed, uninstall the existing Install Assistant first, then install it again.
- Only the driver settings saved in the computer can be copied. The driver settings saved in the NV memory in the printer cannot be copied.
- See the Install Assistant User's Manual for details.

EPSON TMNet WinConfig

Sets/Changes the network setting for the EPSON printers in the network.

NOTE

Some EPSON printers are not supported.

EPSONNet Web Config

Sets/Checks the network information of the printer by entering the IP address of the printer to the address bar of the Web browser. One printer can be set and checked.

Sample Programs

These is the sample programs to use with the TM-C610. (C++, VB.NET, C#, and VB6.0 are prepared as development languages. However, C# and VB6.0 are not provided for some programs.)

Handling

This chapter describes basic handling of the printer.

Replacing the Ink Cartridge

Printing is not possible if any of the three color inks needs replacement.

When the INK LED (red) lights, the ink cartridge needs to be replaced. Follow the steps below to replace the ink cartridge.

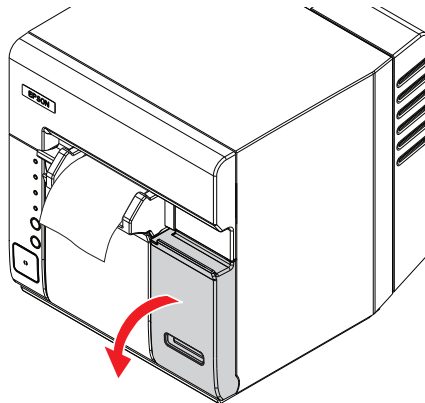
CAUTION

- Always use the EPSON SJIC15P the ink cartridge.
- Do not open the package of the ink cartridge until you are ready to install it in the printer.

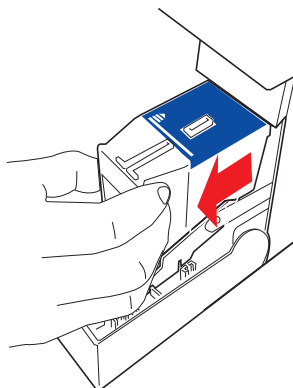
NOTE

- Ink consumption differs depending on printer conditions, such as printing and cleaning.
- To maintain the quality of print head, the INK LED lights even though some ink remains in the cartridge.

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

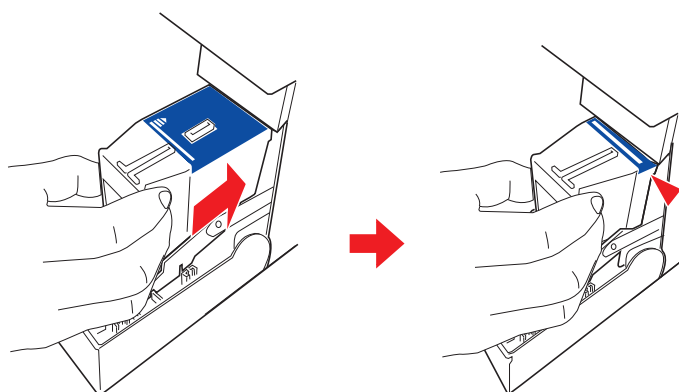


- 3 Pull out the used ink cartridge to remove it.



Do not leave the printer without an ink cartridge installed.
Otherwise, the print head may dry and clog.

- 4 Shake the new ink cartridge package 4 or 5 times before opening it and take out the ink cartridge out of the package.
- 5 Push the ink cartridge gently into the cartridge holder at the position shown below.
Insert it with arrow side up.



- 6 Close the ink cartridge cover.
The INK LED turns off.

Replacing the Roll Paper

When the roll paper is out, the PAPER OUT LED (red) and the ERROR LED (red) light.

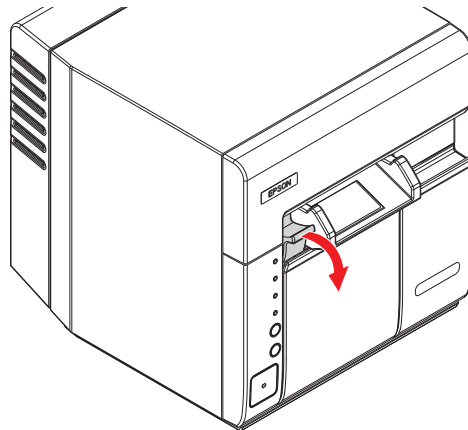
Follow the steps below to replace the roll paper.



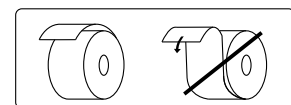
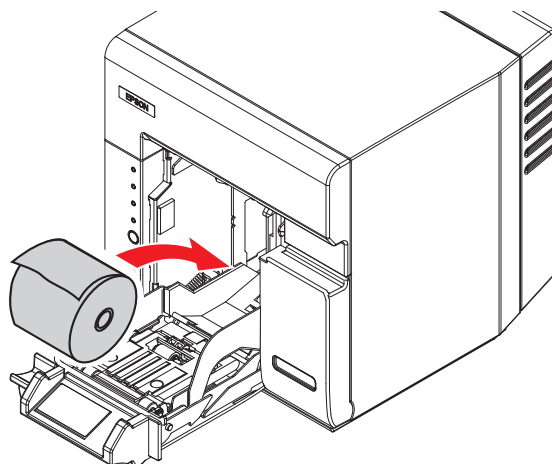
Do not open the roll paper cover or touch the paper during printing.
Otherwise, the printer may be damaged.

Replacing the Roll Paper

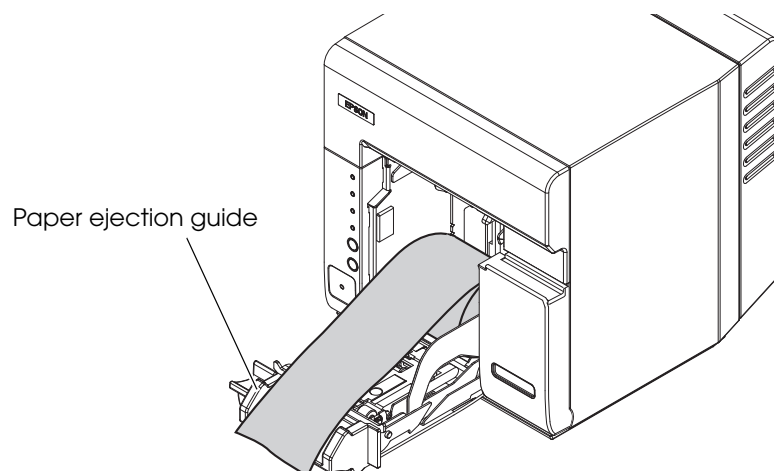
- 1 Press down the release lever, and pull it to the front to open the roll paper cover.



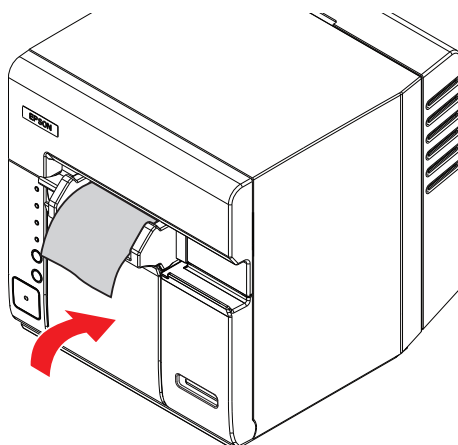
- 2 Remove the used paper roll core.
- 3 Load the roll paper in the orientation shown below.



- 4** Pull out the paper end to the paper exit along the paper ejection guide.



- 5** Close the roll paper cover.
When the printer power is on, roll paper is automatically fed about 10 cm {3.9"}, and then autocutting is performed.

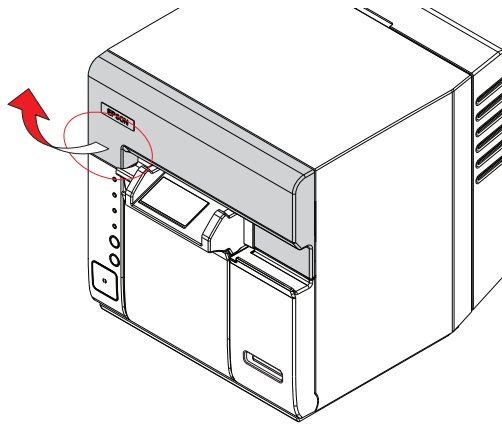


Removing Jammed Paper

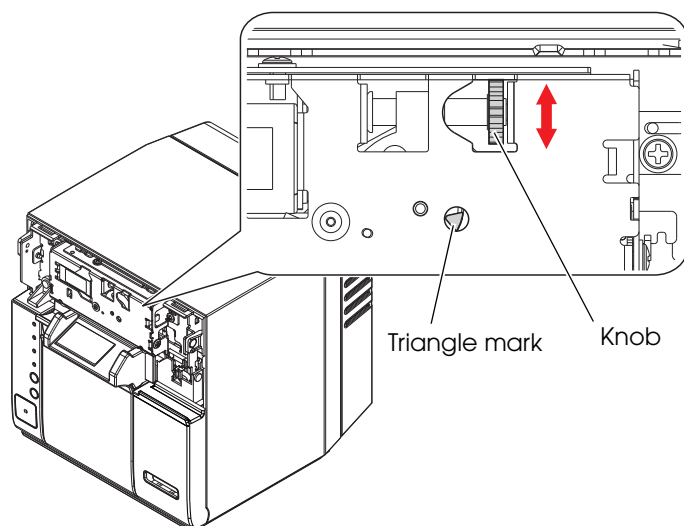
When a paper jam occurs, never pull out the paper forcibly. Open the roll paper cover, and remove the jammed paper.

If the roll paper cover cannot open, follow the steps below.

- 1** Turn off the printer.
- 2** Remove the autocutter cover by pulling the part of the autocutter cover indicated in the circle in the illustration below.



- 3** Turn the knob upward or downward until a triangle mark appears in the hole in the frame.



- 4** Close the autocutter cover.
- 5** Open the roll paper cover, and remove the jammed paper.

How to Use the Printer Driver

The printer driver allows you to change the print settings and also provides some utilities such as checking the printer status and cleaning the print head.

How to Display the Printer Driver

- 1 Select **(Start)** - **(Control Panel)** - **(Printer)** on the computer.

NOTE

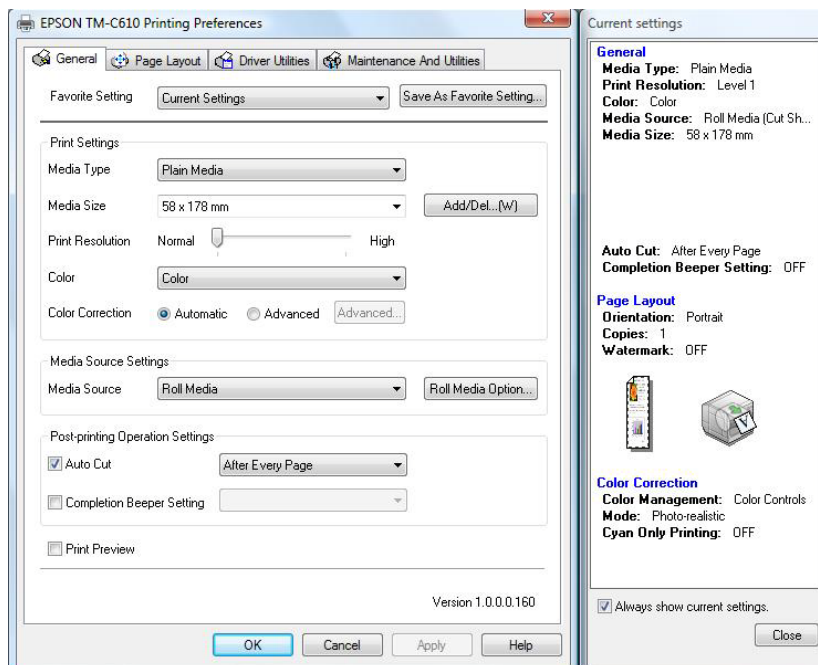
Menus to select are different in each OS. For details, see below.

- Windows 7
[Start] - [Control Panel] - [Hardware and Sound] - [Devices and Printers]
- Windows Vista
[Start] - [Control Panel] - [Printers]
- Windows XP
[Start] - [Control Panel] - [Printers and Faxes]

- 2 Right-click **(EPSON TM-C610)**, and click **(Printing References)**.
The printer driver screen is displayed.

NOTE

The above icon name is displayed when the printer's name registered as [EPSON TM-C610].



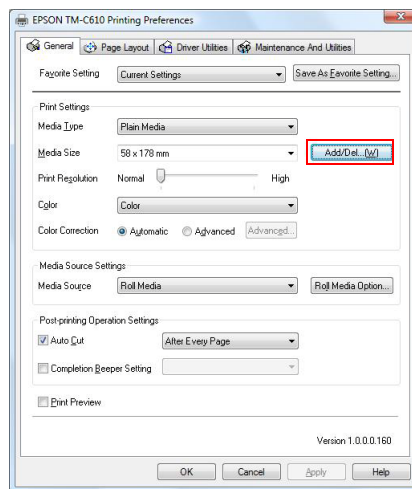
Registering User Defined Media

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

The registered layout will be stored in [Favorite Setting] to use from user applications.

Registering User Defined Media

- 1 Click **(Add/Del)** of **(Media Size)** on the **(General)** tab.

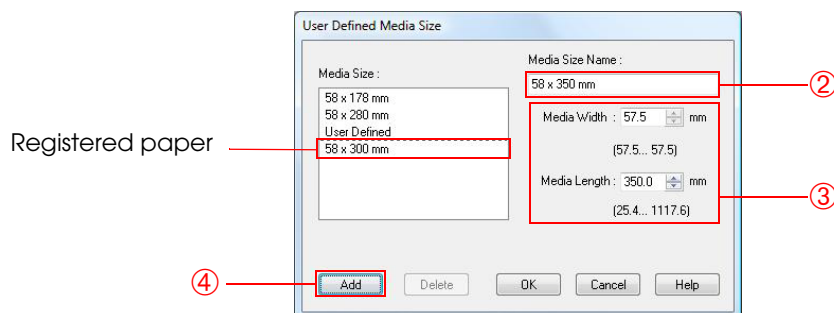


- 2 Enter **(Media Size Name)** on the displayed **(User Defined Media Size)** screen.

This is registered as a user defined media name.

- 3 Enter the size of the paper.

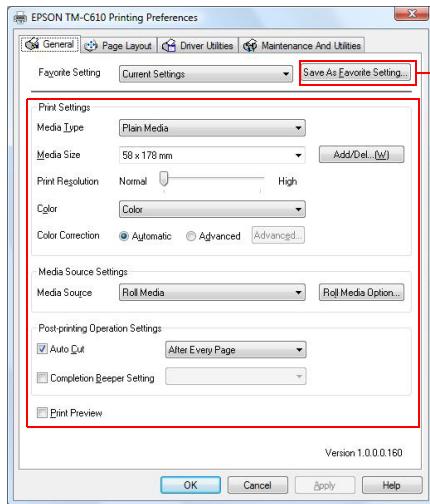
- 4 Click **(Add)**. The user defined media will be registered and displayed in the list of **(Media Size)**.



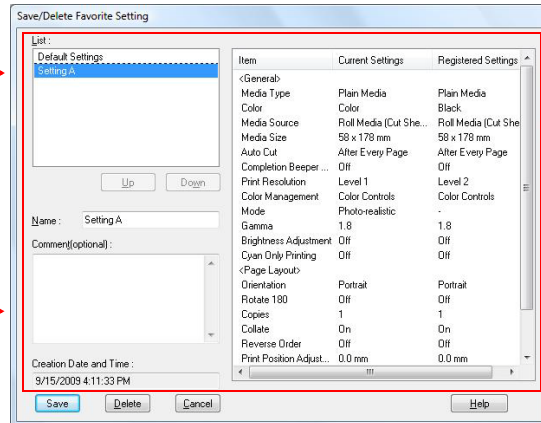
Favorite Setting

[Favorite Setting] is the function to administer several printer driver settings into one. The settings from the (General) and (Page Layout) tabs such as Media Type, Media Layout (including User Defined Media) are included.

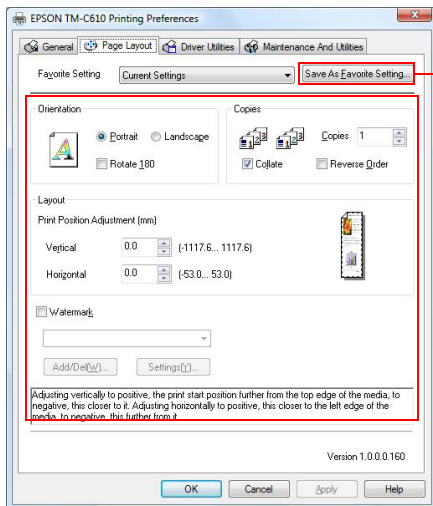
(General) tab



Favorite setting



(Page Layout) tab

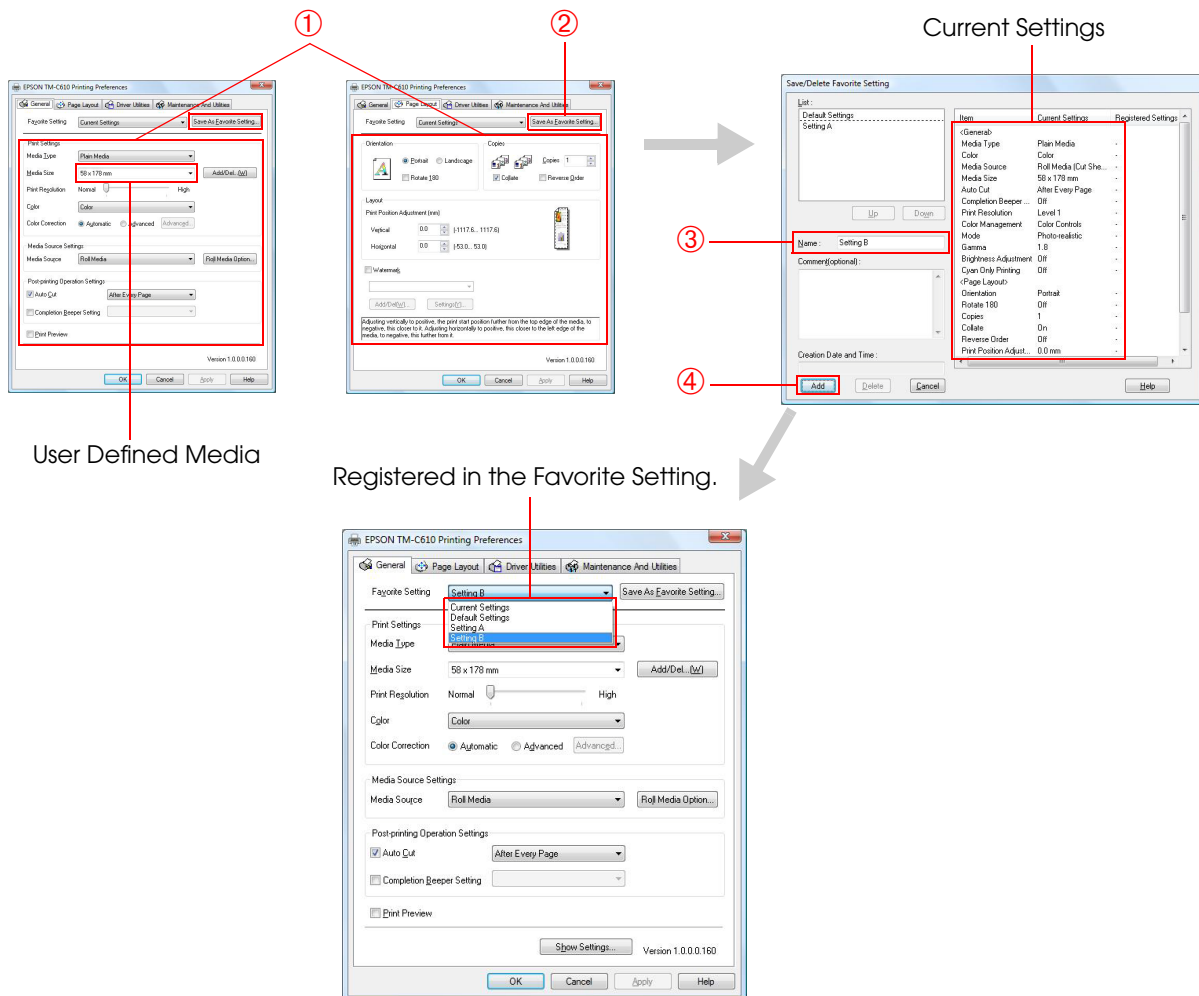


Features

- When printing from your application, the print setting registered in [Favorite Setting] can be selected as the 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 settings can be registered in (Favorite Setting).
For example, if the print setting is registered in (Favorite Setting) for each defined-size coupon, the print setting can be completed by changing (Favorite Setting) when the coupon is changed. This prevents an error of setting change when changing the paper length.

Registering print setting in (Favorite Setting)

- 1** Set the printer driver depending on paper to print.
Set settings on **(General)** and **(Page Layout)** tab. To set the paper of User Defined Media, select it from **[Media Size]**.
- 2** Click **(Save As Favorite Setting)** to display **(Save/Delete Favorite Setting)**.
The current setting will be displayed in the list on the right side.
- 3** Enter a print setting name.
- 4** Click **(Add)**.
The print setting will be registered in **(Favorite Setting)**.



[Favorite Setting] includes the following settings.

- **Default Settings:** The default setting when installing the printer driver.
- **Current Settings:** The contents set in the (General) and (Page Layout) tabs. These contents are displayed in the current settings in (Current Setting) and the (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 in the .NET environment

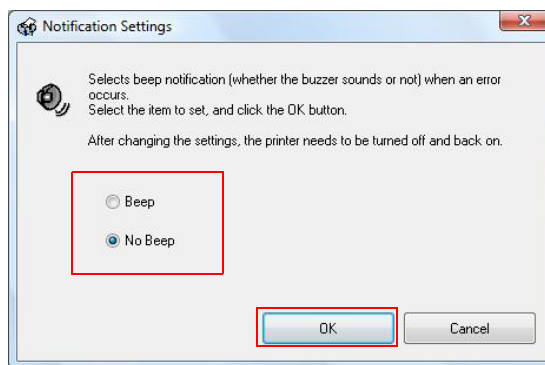
The user definition is set on each client computer. When a number of TM-C610 printer drivers are installed in one computer, these are used mutually.

Buzzer Setting at the Time of Errors

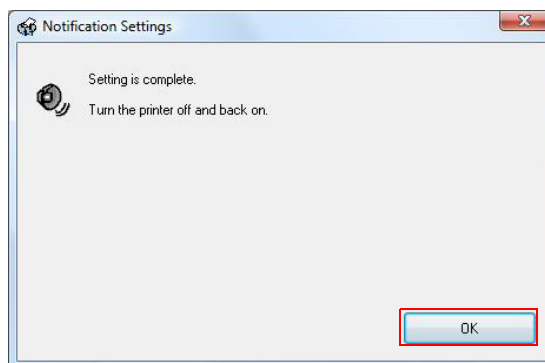
Whether the buzzer beeps when an error occurs can be set.

Follow the steps below to make the setting.

- 1 Turn on the printer.
- 2 Display the printer driver.
(For how to display, see ["How to Use the Printer Driver" on page 66.](#))
- 3 Select the **(Maintenance And Utilities)** tab, and click **(Notification Settings)**.
- 4 The following screen is displayed. Select the item to set, and click **(OK)**.



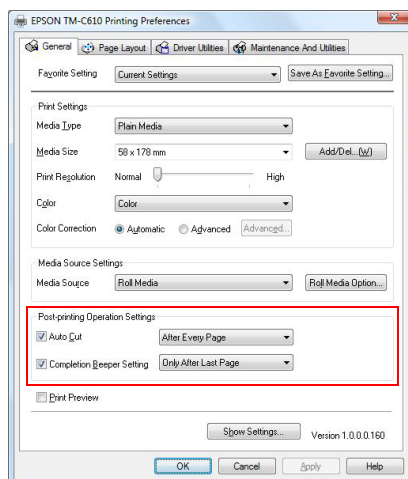
- 5 The following screen is displayed, and setting is completed. Click **(OK)** to exit.



Autocutting and Buzzer Setting after Printing

Whether autocutting is performed and whether the buzzer beeps after printing can be set in [Post-printing Operation Settings] in the [General] tab of the printer driver.

(For how to display the printer driver, see ["How to Use the Printer Driver"](#) on page 66.)



[Post-printing Operation Settings] includes the following settings.

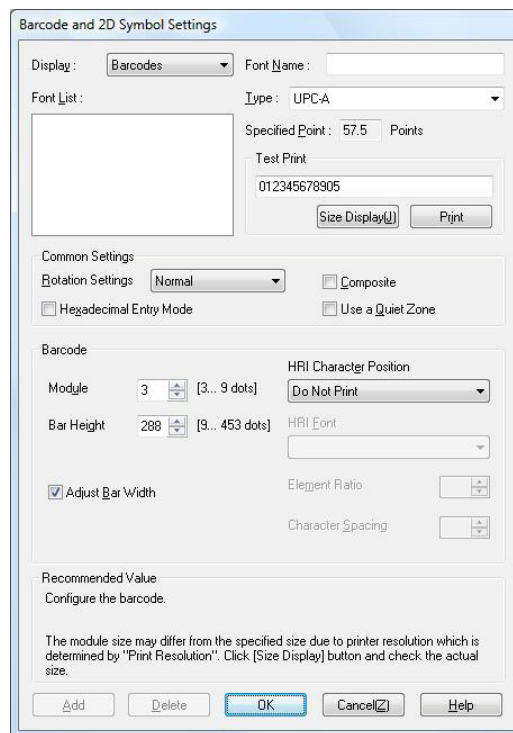
- **Autocut:** After Every Page/Only After Last Page
The printer feeds paper to the position where autocutting can be performed, and stops after autocutting.
- **Completion Beeper Settings:** Only After Last Page
The buzzer beeps after printing is completed.

Barcode Printing

The printer driver has a built-in barcode font. Barcode printing is available if a 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. The following types are selectable.
 - * UPC-A
 - * JAN13(EAN)
 - * GS1 DataBar Omnidirectional
 - * GS1 DataBar Expanded
 - * UPC-E
 - * JAN8(EAN)
 - * GS1 DataBar Truncated
 - * 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.

| | |
|-------------|---|
| NOTE | 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 on the right and left side of barcodes for better readability.

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

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

| Category | Graphic resolution (dpi) | Rotation Settings | Adjust Bar Width* | 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 Media | 360x180 | Normal, Rotate180° | Available | 4 dot 2.5 | - | - |
| | | Rotate90°, Rotate270° | | 6 dot 2.5 | - | - |
| | 360x360 | Normal, Rotate180° | | 4 dot 2.5 | - | - |
| | | Rotate90°, Rotate270° | | 6 dot 2.5 | - | - |

- : Not supported

* : Bars of the printed barcode may be thickened since ink soaks into the paper.
It is recommended to check [Adjust Bar Width].

CAUTION

When “Module” is set to an odd number and the resolution is changed by changing [Print Resolution], the printed barcode size may be changed. The barcode size can be checked by using the [Size Display] button.

- **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 desired.

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.

2 Click **(Add)**.

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

NOTE

- Up to 30 barcode fonts can be registered.
- 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.
- Execute a test print according to the setting by clicking [Print] after inputting the text in the box.

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.

| Composite Component Type | Encodable Digit Number |
|--------------------------|------------------------|
| CC-A | 1 ~ 56 digits |
| CC-B | 1 ~ 338 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 6 to 8, or 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 12 to 13 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 13 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.

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 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.

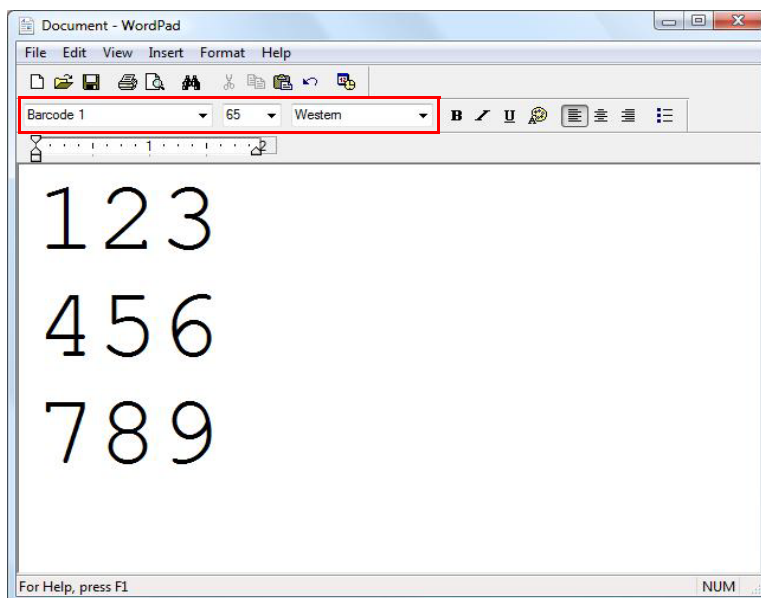
When the next data of '01' is fewer than 14 digits, a check digit is not checked. (The check digit is not automatically calculated, nor replaced with '*.' When '*' is specified, '*' is ignored, and the rest of the data is shifted by 1 digit.)

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

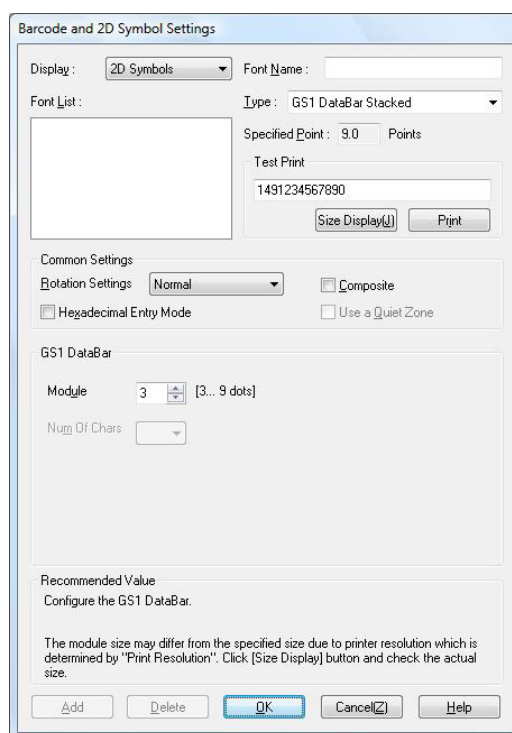
The font size of the barcode cannot be changed by [Specified Point] value. The barcode is not printed when other values are selected.

2D Symbol Printing

The printer driver has built-in 2D symbol fonts. 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.



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 amount.
- 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.

NOTE 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 on the right and left side of 2D symbols for better readability.

NOTE 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)**.

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

The recommended values for the 2D symbols.

Recommended value for setting the barcode/2D symbol font (2D symbol of stack type)

| Category | Graphic resolution (dpi) | Print Status* | Minimum Module (by 360 dpi) | | |
|-------------|--------------------------|-----------------|-----------------------------|------------------------|------------------------|
| | | | ANSI Grade D or higher | ANSI Grade C or higher | ANSI Grade B or higher |
| Plain Media | 360x180 | No Paper feed | 6 dot | - | - |
| | | With Paper feed | 6 dot | - | - |
| | 360x360 | No Paper feed | 6 dot | - | - |
| | | With Paper feed | 6 dot | - | - |

- : Not supported

* : 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 85.

3 Click (**Add**).

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

NOTE

- Up to 30 2D symbol fonts can be registered.
- 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.
- Execute a test print 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.

NOTE

For the composite symbol and the HRI character, see "[Specifying the barcode data](#)" on page 75.

GS1 DataBar Stacked /GS1 DataBar Stacked Omnidirectional

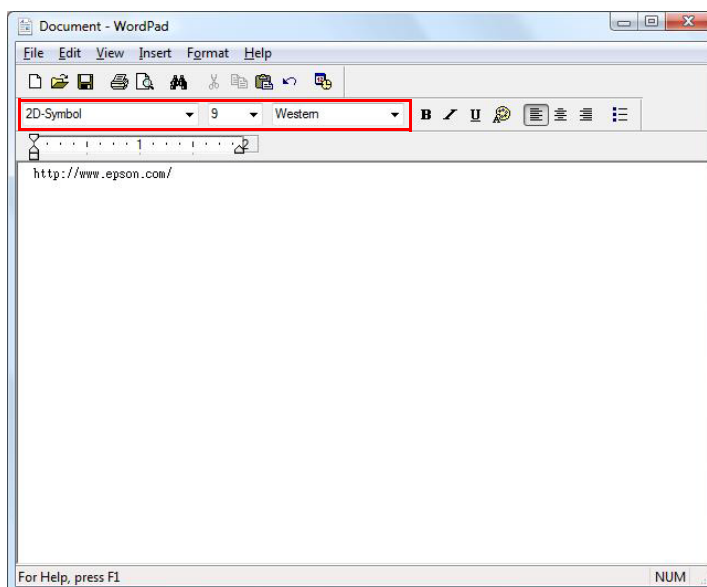
- Up to 13 digits of data can be specified.
- Do not specify the application identifier '01' for the head of the data.
- A check digit need not to be attached to the data.

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 77.)

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 cannot be changed by [Specified Point] value.
The 2D symbol is not printed when other values are selected.

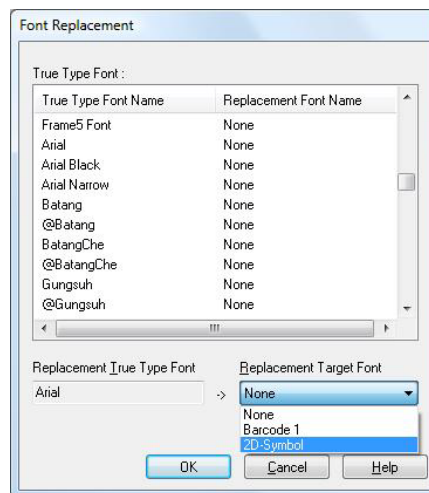
Barcode and 2D Symbol Font Printing on .NET Environment

Since .NET Framework supports only TrueType fonts and Open Type fonts, the barcode and 2D symbol fonts that are registered in the printer driver cannot be printed from an application. Therefore, TrueType fonts are replaced with barcode and 2D symbol fonts with the font replacement function of the printer driver. Barcode and 2D symbol fonts can be printed from applications under .NET Framework environment by this replacement function.

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

Font Replacement

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



1 Make the following setting.

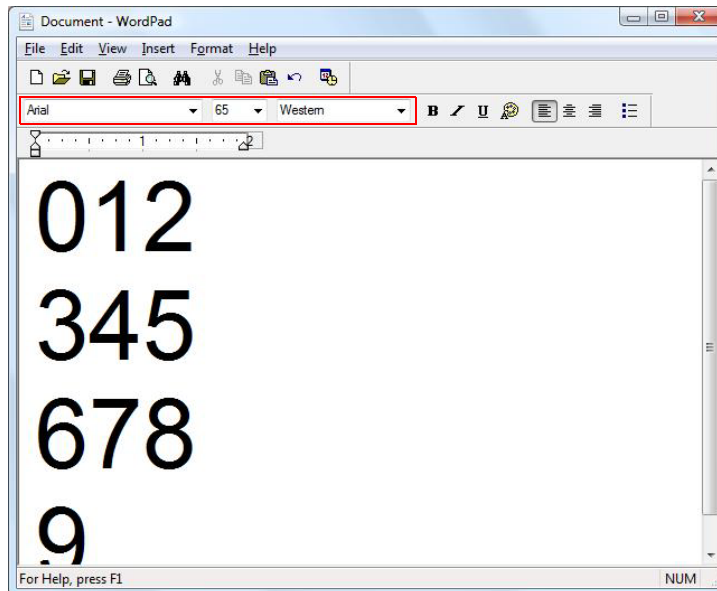
- Replacement TrueType Font
 - * Select the original TrueType Font.
- Replacement Target Font
 - * Select the target barcode and 2D symbol.

2 Click (OK).

TrueType font is replaced by barcode and 2D symbol font.

Printing barcodes and 2D symbols

Sets specified number of point, language of the replaced TrueType 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 cannot be printed if a value other than those specified is set.
- The original TrueType font can be used only for specifying barcode and 2D symbol; therefore, if other characters are specified, they cannot be printed. Make sure to use a TrueType font that will not be used for other printing.

Functions of the Printer Driver

The printer driver has “General,” “Page Layout,” “Driver Utilities,” and “Maintenance And Utilities” tabs to change various settings and for adjustments.

(General) tab

Favorite Setting

Selects one of the registered print settings from the list. This is the default setting when printing. Changes to setting when installing the printer driver if (Default settings) is selected.

Print Settings

Makes setting of Media Type, Media Size, Print Resolution and Color Correction.

The user definition paper can be registered in Media Size.

Select print quality from (Normal) (High) and the following is the resolution of the printing.

| Paper type | Print Resolution | Resolution (dpi) (Horizontal × vertical) |
|--------------|------------------|---|
| Normal paper | Normal | 360 × 180 |
| | High | 360 × 360 |

Media Source Settings

Changes settings of Paper Source and Roll Paper Option setting.

Post-printing Operation Settings

Sets whether autocutting is performed and whether the buzzer beeps after printing.

Print Preview

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

(Page Layout) tab

Favorite Setting

Selects one of the registered print settings from the list. This is the default setting when printing. Changes to setting when installing the printer driver if (Default Settings) is selected.

Orientation

Changes settings of the printing direction (Portrait, Landscape, Rotate 180).

Copies

Sets the number of prints.

Layout

Adjusts the printing position.

Watermark

By turning on this check box, text such as “Important” or a graphic can be printed as a watermark.

NOTE

The checkbox is grayed out unless [Roll Media Option] in the [General] tab is set to “Cut Sheet Mode”.

CAUTION

Since the watermark is printed on top of the printed data, a barcode cannot be read when the barcode and the watermark overlap each other.

(Driver Utilities) tab

Barcode and 2D Symbol

Changes various settings of barcode fonts and 2D symbol fonts. This is user definition information.

NOTE

See ["Barcode Printing" on page 73](#) or ["2D Symbol Printing" on page 79](#) for the procedure of each printing.

Font Replacement

Makes settings to replace TrueType font with barcode and 2D symbol fonts under .NET environment.

NOTE

Use this to print the barcode and 2D symbol font in the .NET environment. One TrueType font is specified to use for printing barcodes and 2D symbol fonts.

Driver Preferences

Changes settings for various functions related to the printer driver.

EPSON Log File Settings

Changes settings for the saving method for quick analysis when an error occurs.

Import/Export Settings

Imports or exports all the settings on the printer driver as a file. This is used for Install Assistant to create the install package of the printer driver.

NOTE

This makes it easier to use the same settings for other printers.

(Maintenance And Utilities) tab

Makes the following settings to the printer.

Notification Settings

Sets whether the buzzer beeps when an error occurs.

Head Cleaning

Performs head cleaning. The result of the head cleaning can be checked by the nozzle check pattern printing.



See "[Head Cleaning](#)" on page 98 for the operating procedure of head cleaning.

Nozzle Check

Prints a nozzle check pattern to check if any nozzle is clogged or not.

Print Head Alignment

Adjusts misalignment of vertical lines, barcodes and paper feed during bi-directional printing.

This is to check the adjustment value using the roll paper included in the product package.

Normally this is not necessary for the user to make this adjustment since this is adjusted in the factory before shipping.

Uninstallation

To uninstall the printer driver, uninstall the printer driver and Status API separately.

- To uninstall the printer driver [page 89](#)
- To uninstall Status API [page 91](#)

Uninstalling the Printer Driver

Follow the steps below to uninstall the printer driver.

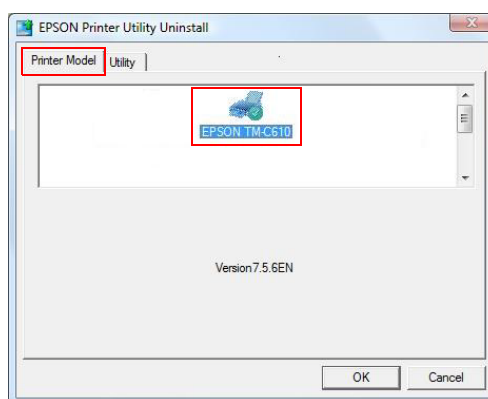
- 1 Finish other operations on the computer.
- 2 Select **(Start)** - **(Control Panel)** - **(Uninstall a program)**.

NOTE

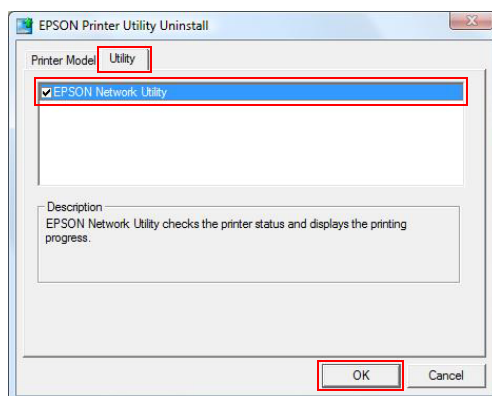
Menus to select are different in each OS. For details, see below.

- Windows 7 / Vista
[Start] - [Control Panel] - [Uninstall a program]
- Windows XP
[Start] - [Control Panel] - [Add or Remove Programs]

- 3 Select **(EPSON Printer Software)**, and click **(Uninstall/Change)**.
- 4 The following screen is displayed. Select the printer driver to be uninstalled from the **(Printer Model)** tab.



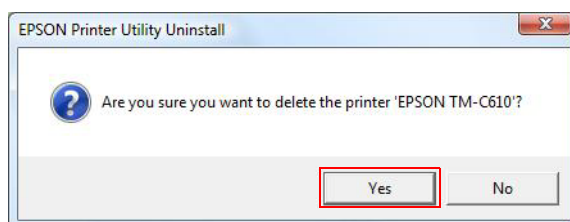
- 5 Check **(EPSON Network Utility)** in the **(Utilities)** tab, and click **(OK)**.



CAUTION

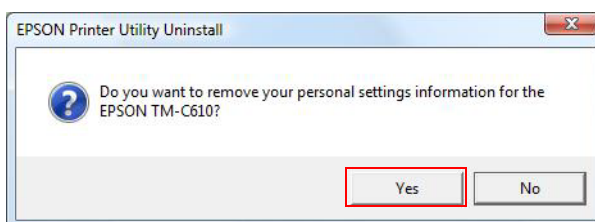
If you are using other EPSON printers and more than one [EPSON Network Utility] is displayed, do not delete them. If they are displayed even if you are not using other EPSON printers, check all of them to delete.

- 6 The screen to confirm uninstallation is displayed. Click **(Yes)**.

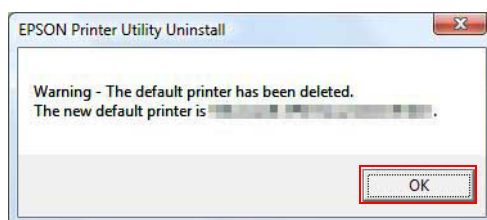


- 7 The confirmation screen to delete the personal setting information is displayed.

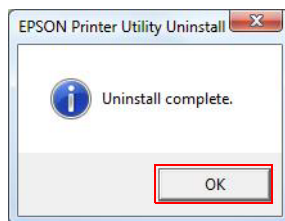
Click [Yes] to delete it, or click [No] to leave it.



- 8 If you have set the TM-C610 as the usual printer, another printer to be set for the usual printer after uninstalling is displayed. Click **(OK)**.



- 9 "Uninstallation complete." is displayed. Click (OK).



The uninstallation of the printer driver is completed.

Uninstalling Status API

Follow the steps below to uninstall Status API.

NOTE

To uninstall without displaying the screen, add the command (`/s /v"/qn REMOVE=ALL"`) to the installation file name of Status API.
e.g: `c61sapi32_10.exe /s /v"/qn REMOVE=ALL"`

- 1 Finish other operations on the computer.
- 2 For a 32bit OS, double-click the icon "c61d32_xxxx.exe."
For a 64bit OS, double-click the icon "c61d64_xxxx.exe."

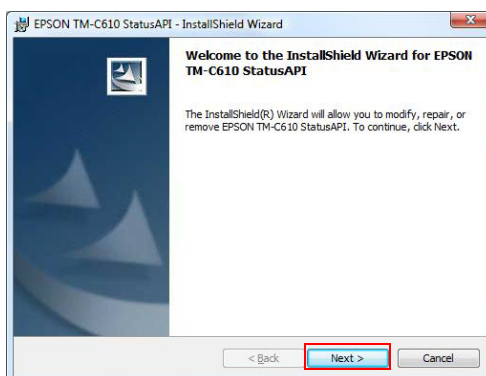
Directory of c61sapi32_xx.exe:

< The folder to execute c61d32_xxxx.exe > / c61d32_xxxx / WINVISTA_XP_2K / STATUSAPI

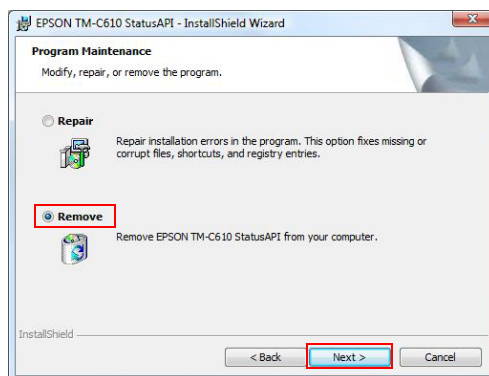
Directory of c61sapi64_xx.exe:

< The folder to execute c61d64_xxxx.exe > / c61d64_xxxx / WINVISTA_XP_2K / STATUSAPI

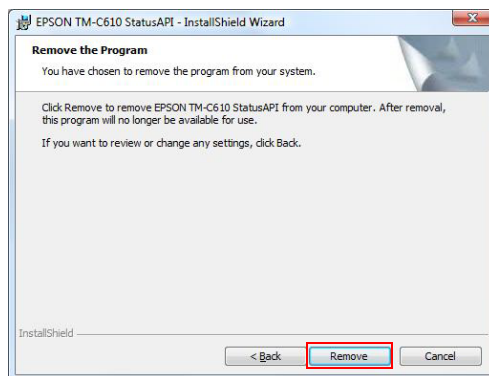
- 3 Click (Next).



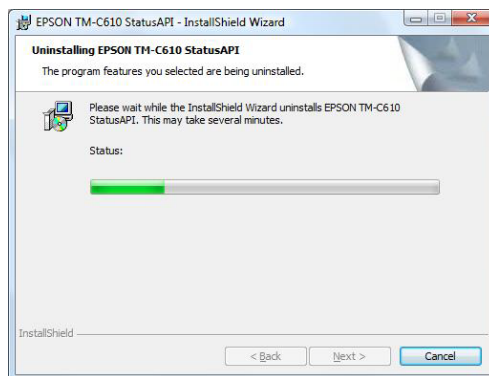
4 Select **(Remove)**, and click **(Next)**.



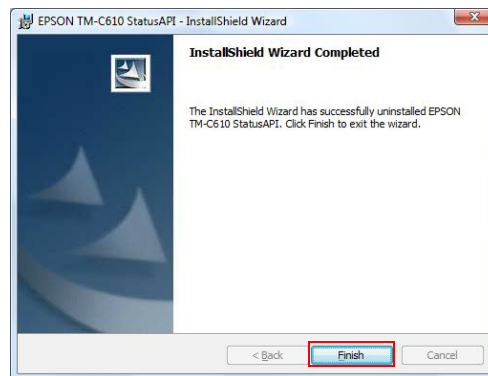
5 Click **(Remove)**.



Status API is uninstalled.



- 6 The uninstall completion screen is displayed. Click **(Finish)**.



The uninstallation of Status API is completed.

Self-test

The self-test is performed by using the control panel.

For the Ethernet interface model, using the self-test button on the printer back enables you to check the printer setting such as IP address.

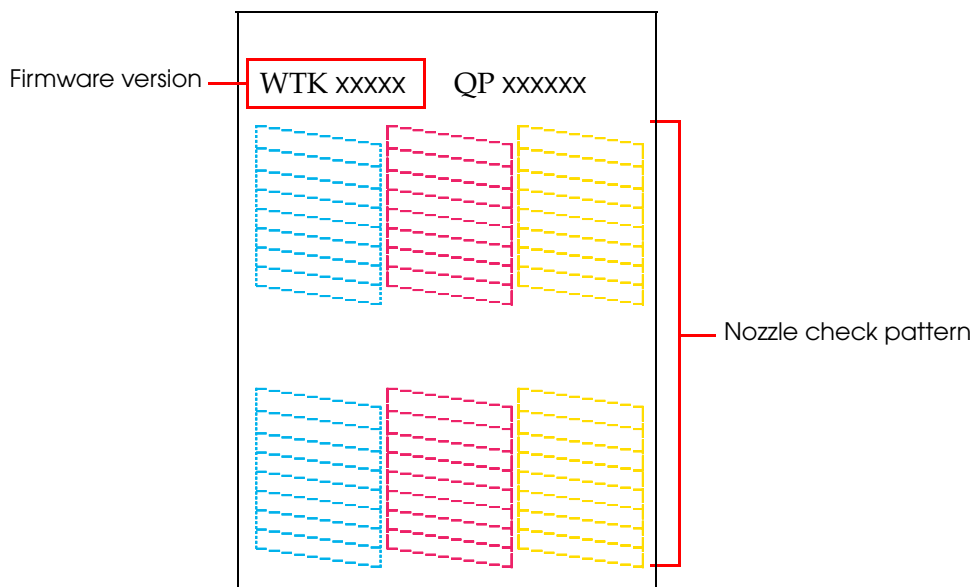
Procedure for the Self-test

You can check the following items by performing the self-test using the control panel.

- Firmware version
- Nozzle check pattern

Follow the steps below to perform the self-test.

- 1** Check the following points.
 - The roll paper is correctly set.
 - The roll paper cover is closed.
- 2** Turn off the printer.
- 3** While pressing down the FEED button, press the power switch.
The self-test result is printed.




NOTE The values for "X" in the above print result are different from each printer.

Self-test using the self-test button (only for the Ethernet interface model)

For the Ethernet interface model, You can check the following items by performing the self-test using the self-test button.

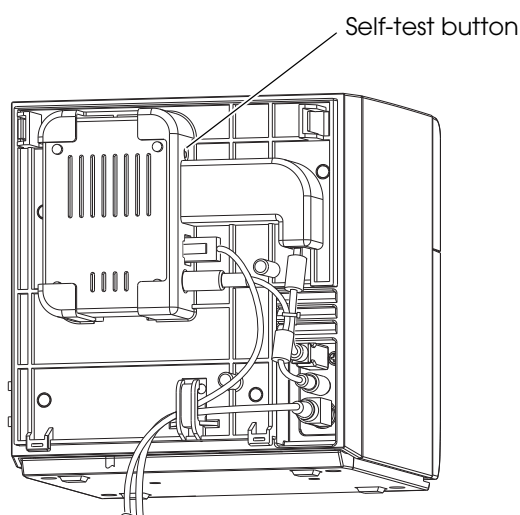
- Printer setting information
- Firmware version
- Nozzle check pattern

Follow the steps below to perform the self-test.

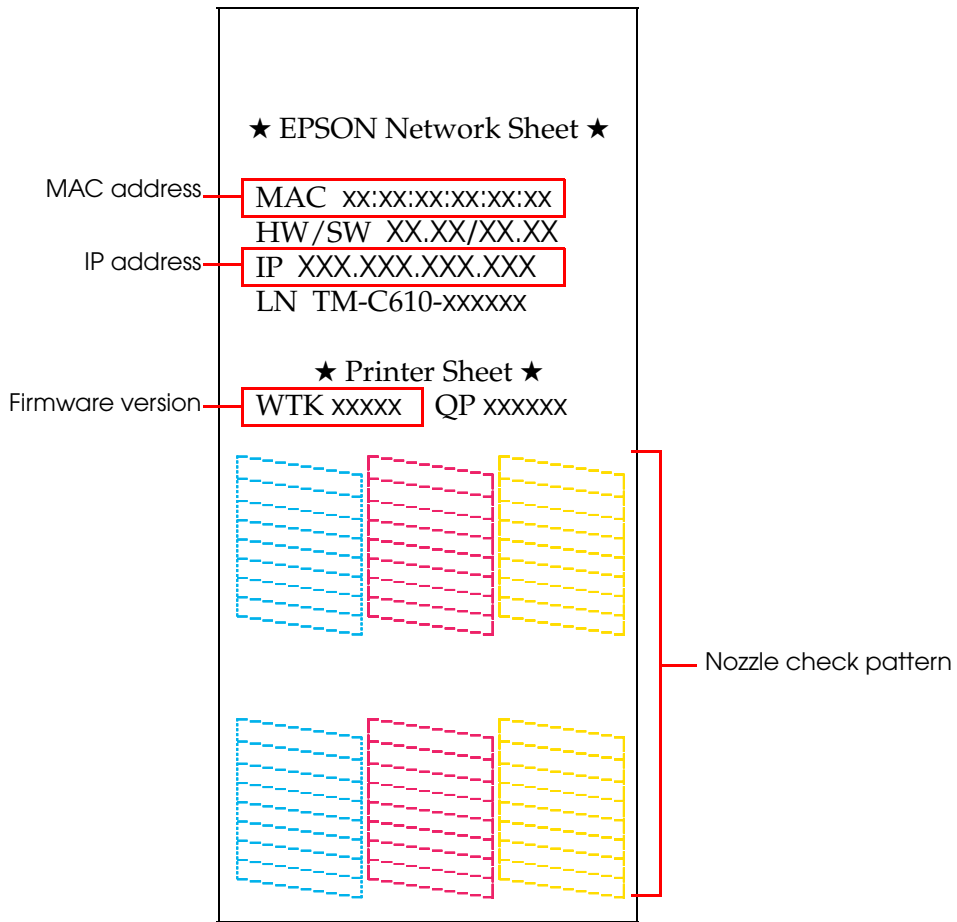
- 1** Check the following points.
 - The  (Power) LED is on (not flashing).
 - The roll paper is correctly set.
 - The roll paper cover is closed.
- 2** Remove the rear cover of the printer.
For how to remove the rear cover, see ["Connecting the USB/Ethernet cable" on page 38](#).
- 3** Press the self-test button on the back of the printer with something pointed.

CAUTION

Do not press the self-test button for longer than 2 seconds. If the button is held down longer, detailed information for an internal check is printed.



The self-test result is printed.



NOTE

The values for "X" in the above print result are different from each printer.

Nozzle Check

Printing the nozzle check pattern enables you to check whether the nozzles are clogged or not. The nozzle check can be performed in two methods: by the self-test, and by the printer driver.

Nozzle Check using the Self-test

- 1 Perform the self-test referring to ["Self-test" on page 94](#).
- 2 Check the printed nozzle check pattern.
If dots are missing, perform a head cleaning. (See ["Head Cleaning" on page 98](#).)

Nozzle Check Using the Printer Driver

- 1 Turn on the printer.
- 2 Set the roll paper correctly.
- 3 Display the print setting screen of the printer driver.
(For how to display, see ["How to Display the Printer Driver" on page 66](#).)
- 4 Click **(Nozzle Check)** in the **(Maintenance And Utilities)** tab.
- 5 Click **(Print)**.
- 6 Check the printed nozzle check pattern.
If dots are missing, perform a head cleaning. (See ["Head Cleaning" on page 98](#).)

Cleaning

Cleaning the Printer Case

To clean the printer case, wipe the dirt off the printer case with a dry cloth or a damp cloth. Be sure to turn off the printer before cleaning.

CAUTION

Never clean the product with alcohol, benzine, thinner, or other such solvents. Doing so may damage or break the parts made of plastic and rubber.

Head Cleaning


Perform a print head cleaning only when the printout is faint or dots are missing.

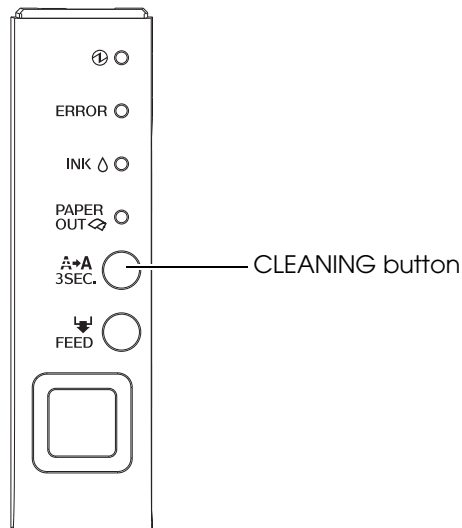
Head cleaning can be performed using two methods; the CLEANING button, or the printer driver.


CAUTION

- Do not turn off the printer or open the roll paper cover or the ink cartridge cover.
- When ink is low, head cleaning may not start or may stop during cleaning. In this case, head cleaning starts after a new ink cartridge is installed.
- When head cleaning is performed continuously, the printer may stop operating for approximately a minute at a maximum to protect the motor from the heat. The printer restarts operating after the motor cools down.

Head cleaning Using the CLEANING button

- 1** Turn on the printer.
- 2** Press the CLEANING button for 3 seconds or more.
Head cleaning starts. The  (Power) LED flashes during the head cleaning.



When head cleaning finishes, the  (Power) LED stays on.


- 3** Perform a nozzle check to confirm the print result.
(For how to perform the nozzle check, see ["Nozzle Check" on page 97.](#))

Head cleaning using the printer driver

- 1** Turn on the printer.
- 2** Display the print setting screen of the printer driver.
(For how to display, see ["How to Display the Printer Driver" on page 66.](#))
- 3** Click **(Head Cleaning)** in the **(Maintenance And Utilities)** tab.
- 4** Perform the nozzle check to confirm the print result.
(For how to perform the nozzle check, see ["Nozzle Check" on page 97.](#))

Transporting the Printer

For transporting the printer, be sure to follow the instructions below to prevent ink leakage under the reduced pressure occurring during air transportation.

1 Make sure the  (POWER) LED is turned on. (Wait about 10 seconds after the printer has finished its operations.)

2 Open the ink cartridge cover.



The valve inside the printer is closed by opening the ink cartridge cover while the printer is turned on. To prevent ink leakage during transportation, be sure to perform this procedure.

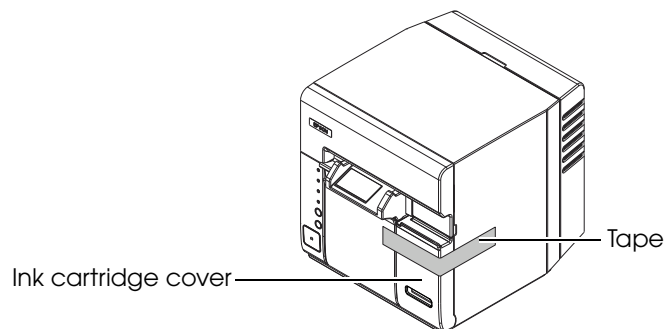
3 Disconnect the power cable from the inlet while the ink cartridge cover is open.

4 Disconnect the power cable from the printer.

5 Make sure the  (POWER) LED is turned off.

6 Close the ink cartridge cover.

7 Fix the ink cartridge cover with tape, as shown in the illustration below, to prevent the ink cartridge cover from opening during transportation.



8 Do not turn the printer upside down or on its side when packed and being transported.



Be sure to transport the printer with an ink cartridge installed.

Storing Long-term

Before Long-term Storage

Follow the steps below to store the printer after ink is charged.

- 1** Perform the nozzle check. (See ["Nozzle Check" on page 97.](#))
- 2** If dots are missing in the print result, perform the head cleaning. (See ["Head Cleaning" on page 98.](#))
After the head cleaning, perform the nozzle check again, and repeat it until no missing dots are found in the print result.
- 3** Wait more than 10 seconds after the printer has finished its operation, and turn off the printer.
- 4** Remove the power plug of the AC cable from the wall socket.
- 5** Store the printer in a cool (between 0-25°C {32-77°F}) and dark place.



- **Store the printer with the ink cartridge installed.**
- **To prevent missing dots, do not expose the printer to excessive vibration or shock during transport.**

After Long-term Storage

Follow the steps below to restart the printer after long-term storage.

- 1** Check the installed ink cartridge. If 2 years have passed after manufacture or 6 months have passed after the package is opened, replace it with a new ink cartridge.
- 2** Insert the power plug into the wall socket, and turn on the printer.
Head cleaning may be automatically performed.
- 3** Perform the nozzle check to make sure there are no missing dots.
If dots are missing, perform a head cleaning.

Troubleshooting

Lighting and Flashing ERROR LED

Recover from the error as follows when the ERROR LED is on or flashing.

(For LED lighting/flashing patterns, see ["Status/Error Indications" on page 21.](#))

- Make sure that the roll paper cover or the ink cartridge cover is closed.
Close the cover if it is open.
- When the INK LED is on, replace the ink cartridge with a new one.
- When the PAPER OUT LED is on, check whether the roll paper is out. If it is out, replace it with a new one.
- When the PAPER OUT LED is flashing, check for a paper jam. If paper is jammed, remove the jammed paper referring to ["Removing Jammed Paper" on page 65](#), and install the roll paper correctly.
- Turn off the printer and then turn it back on. If the ERROR LED is still flashing, call your supervisor or a service person.

Maintenance of the TM-C610

This chapter describes the necessary information for an administrator of the TM-C610, such as how to distribute the printer driver and add/replace the printer, or manage the printer in the system.

Necessary information for an administrator of the printer ([page 104](#))

- Printer driver functions ([page 104](#))
- Destination for the printer driver setting ([page 105](#))
- Installing multiple printer drivers on one client computer ([page 106](#))
- Using one network printer with multiple client computers ([page 110](#))

Distributing the Printer Driver and Setting the Printer ([page 111](#))

- Utility ([page 111](#))
- Preparation for the administrator ([page 112](#))
- Distribution of the printer driver ([page 113](#))
- Setup of the printer ([page 114](#))

Maintenance ([page 115](#))

- Adding a client computer ([page 115](#))
- Adding a printer (without adding paper) ([page 116](#))
- Adding/changing the paper (changing the Favorite Setting) ([page 117](#))
- Replacing the printer ([page 117](#))

Necessary Information for an Administrator of the Printer

This section describes the necessary information for the administrator of the printer.

Printer Driver Functions

The TM-C610 printer driver has the following functions.

- ❑ Printing
- ❑ Printer driver settings
 - Print setting
 - Favorite setting
 - User defined setting
 - Printer driver operation setting
- ❑ Saving/importing the printer driver settings
 - The print setting, the favorite setting, the user defined setting, operation setting of the printer driver can be exported in a BSF file (extension: “.BSF”). Also, the printer driver setting can be made by importing the settings from the BSF file.
 - With another tool, Install Assistant, you can create an install package for the printer driver using this file.

CAUTION

Export a BSF file from the current setting. When exporting it from the standard setting, the setting contents different from those in the current driver screen will be exported.

- * Current setting:
 - Printer driver properties - [General] -[Printing Preferences] - [Driver Utilities]
 - [Import/Export Settings]
- * Standard setting:
 - Printer driver properties - [Advanced] - [Printing Defaults] - [Driver Utilities]
 - [Import/Export Settings]

- ❑ Printer setting
 - Setting for printing
 - Setting for maintenance

Destination for the Printer Driver Setting

The following printer driver settings can be saved in a file.

Saved as a BSF file

Usage:

- Exporting/importing from the printer driver
- Creating an install package with the Install Assistant

General

Page Layout

Favorite Setting

Driver Utilities

User Defined Media

5

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Installing Multiple Printer Drivers on One Client Computer

When installing multiple printer drivers on one client computer, there are separate setting items for each printer driver, and also common items for all the TM-C610 printer drivers. When a common setting item is changed in one printer driver, the same setting is applied to other TM-C610 printer drivers.

| Item | Contents | Separate setting | Common setting |
|----------------------------------|---|------------------|----------------|
| Print setting | (General) (including User defined Media) (Page Layout) | √ | — |
| (Favorite Setting) list | The (Favorite Setting) list in which print settings are registered. | — | √ |
| User defined information | User defined Media Barcode Font Font Replacement | — | √ |
| Printer driver operation setting | — | √ | — |
| EPSON Log File | — | — | √ |

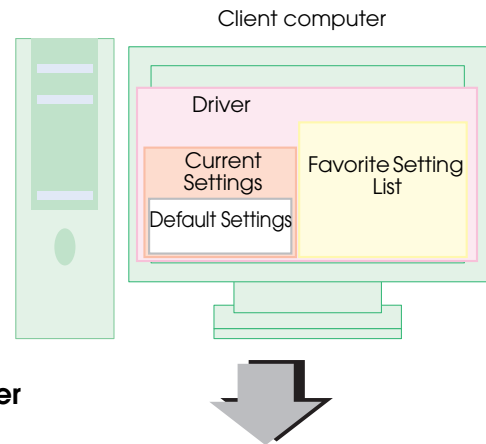
Adding a printer driver using the install package

When adding a printer driver using the install package created with the Install Assistant, the setting list of [Favorite Setting] and [User defined Media] settings is changed.

The following description shows what happens to the print setting of the printer driver and the [Favorite Setting] list.

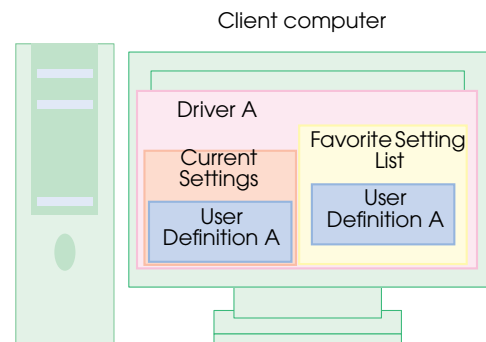
1. Install the printer driver.

The user defined information does not exist at the time of installation. "Current settings" are set to the default settings of the printer driver.



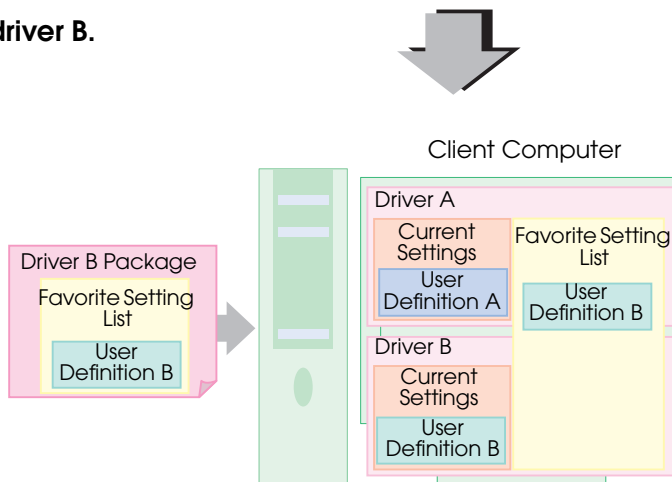
2. Make the print setting (User Definition A) in the printer driver screen.

After setting it, User Definition A is set to "Current Settings." Register User Definition A in the "Favorite Setting" list.



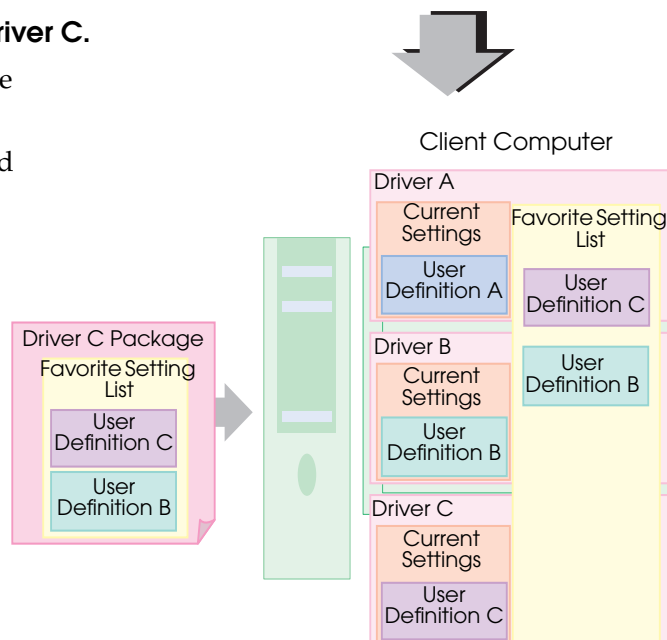
3. Install the install package for printer driver B.

The “Favorite Setting” list in the install package is for User Definition B; therefore, the setting list is overwritten and User Definition A is deleted. “Current Settings” for printer driver A are not changed from User Definition A.



4. Install the install package for printer driver C.

The top of the “Favorite Setting” list in the install package is User Definition C; therefore, the setting list is overwritten and its order is changed.



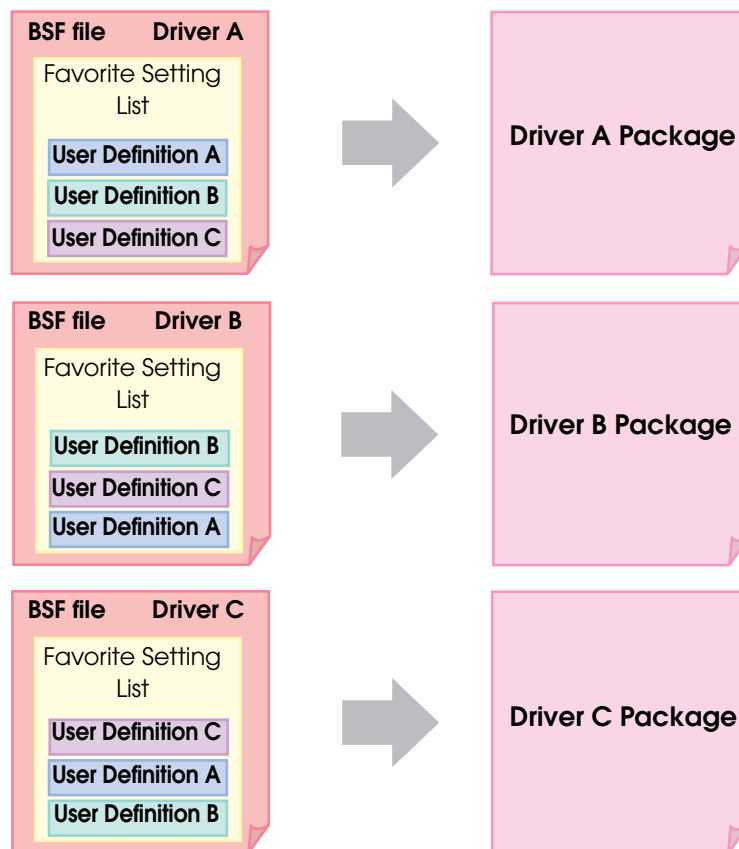
5. “Current Settings” can be changed easily on the printer driver screen.

To save User Definition A in the “Favorite Setting” list, register it again in “Favorite Setting” with printer driver A.

Creating the install package

The following steps are recommended to create the install package.

- 1 Register all the print settings of the printer driver on the client computer to the "Favorite Setting" list, and create the BSF files.
Create a file for each printer driver. Place the printer driver setting at the top of the setting list.
- 2 Create the install package for each printer driver.



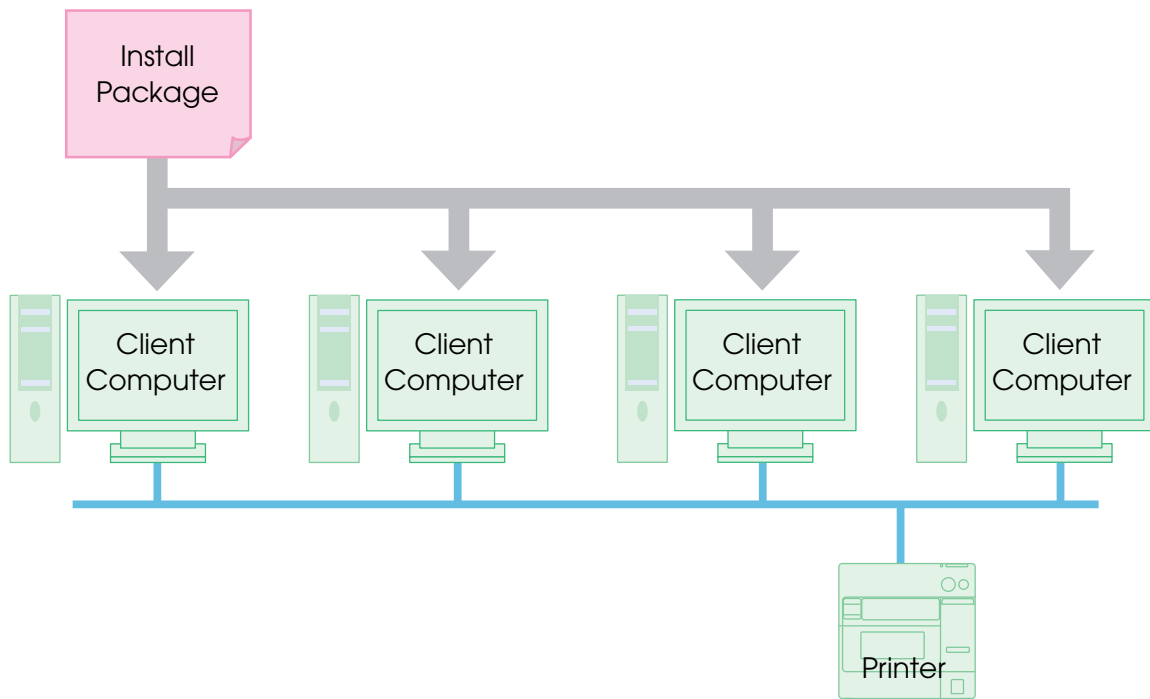
Adding the printer driver using the printer driver file

When the printer driver is installed using the printer driver file "c61d32_xxxx.exe / c61d64_xxxx.exe," the "Favorite Setting" list and [User defined Media] setting in the existing printer driver are not changed.

This is because only the default setting is registered, and [User defined Media] is not registered for the print setting in the printer driver file.

Using One Network Printer with Multiple Client Computers

To use one network printer with multiple client computers, create an Install Package for the printer, and install it to the client computers.



Distributing the Printer Driver and Making Printer Settings

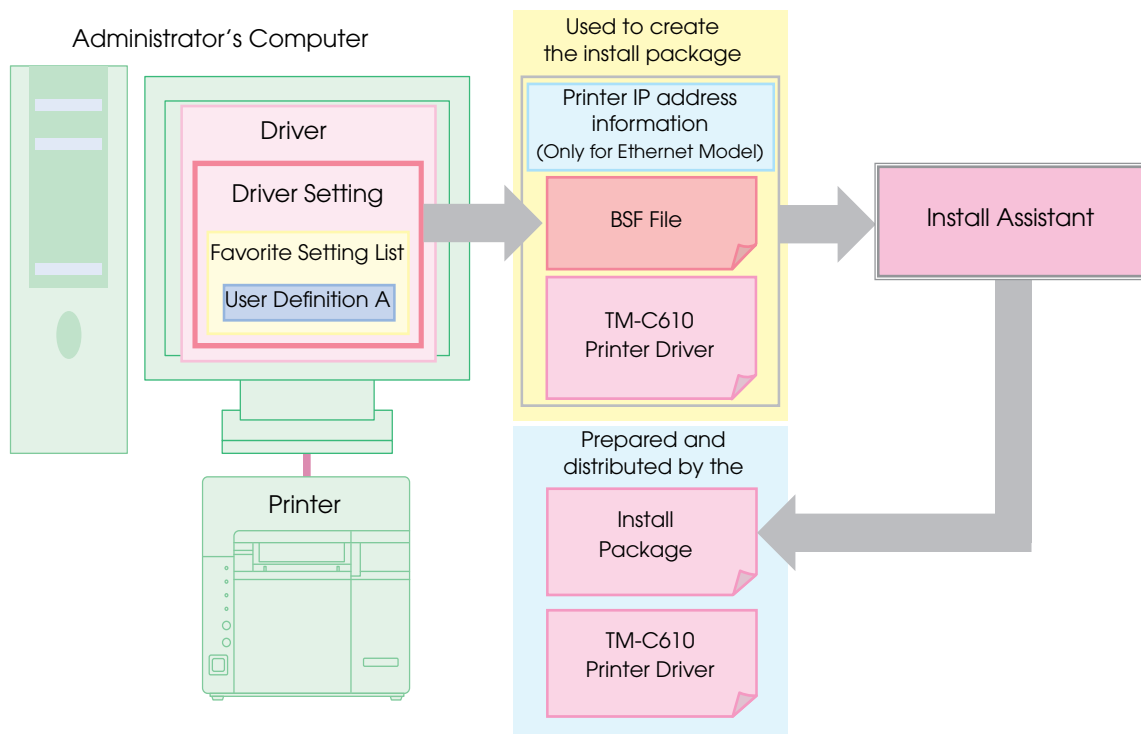
This section describes how to distribute the printer driver and make the printer settings.

Utility

Use the following utilities to distribute the install package for the client computer and make the settings to the printer.

- ❑ Install Assistant (For details, see the Install Assistant User's Manual.)
 - Creates the install package for the printer driver installation, the printer driver setting, and the communication port setting (including the network setting).
 - The printer driver installation, the printer driver setting, and the communication port setting are automatically executed when running the install package on the client computer.
 - For the Ethernet interface model, creates an install package for each printer.
 - For the USB interface model, creates the install package for each printer driver setting.
- ❑ EPSON TMNet WinConfig (For details, see the Help in the EPSON TMNet WinConfig.)
 - Makes the network setting for the Ethernet interface model.
Can make the multiple printer settings at a time.

Preparation for the Administrator



The following items must be prepared by an administrator.

❑ IP address information of the printer

- Necessary to create the install package/BSF file (only for the Ethernet interface model).

❑ BSF file

- This is the setting file for the printer driver.
- This file is created with the TM-C610 printer driver.
- Make sure of the following points when installing multiple printer drivers on one computer.
 - Include the user definitions of all the printer drivers.
 - Register the printer settings of all the printer drivers in the "Favorite Setting" list.
 - Create a file for each printer driver. When creating a file, place the printer setting of the target printer driver at the top of the setting list.

❑ TM-C610 Printer Driver

- Necessary to create the install package/BSF file.
- Necessary to install shared printers.

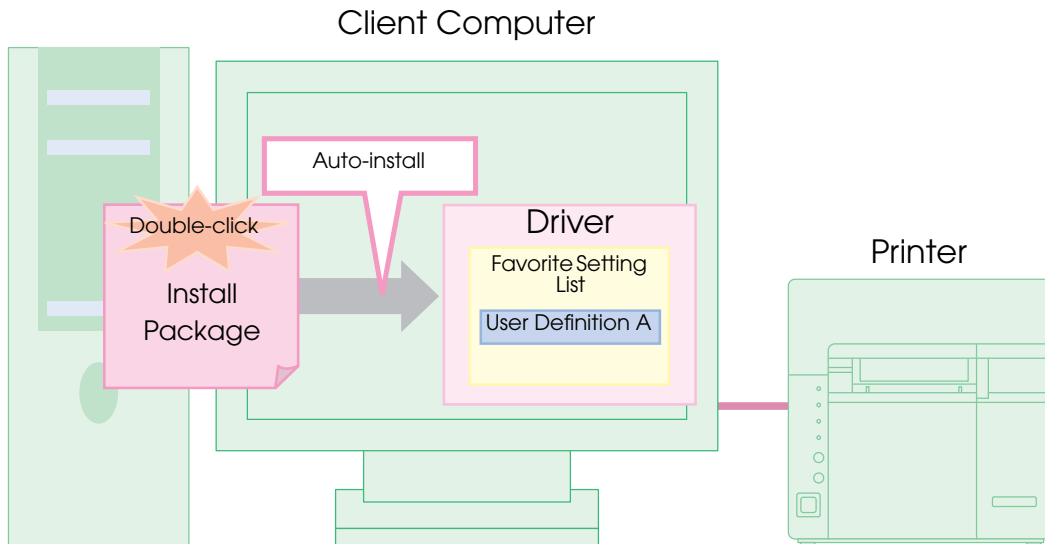
❑ Install package

- Performs the printer driver installation/printer setting/port setting automatically.
- Created by the Install Assistant using the BSF file and the TM-C610 printer driver.
- For the Ethernet interface model, an install package is created for each printer.

Distribution of the Printer Driver

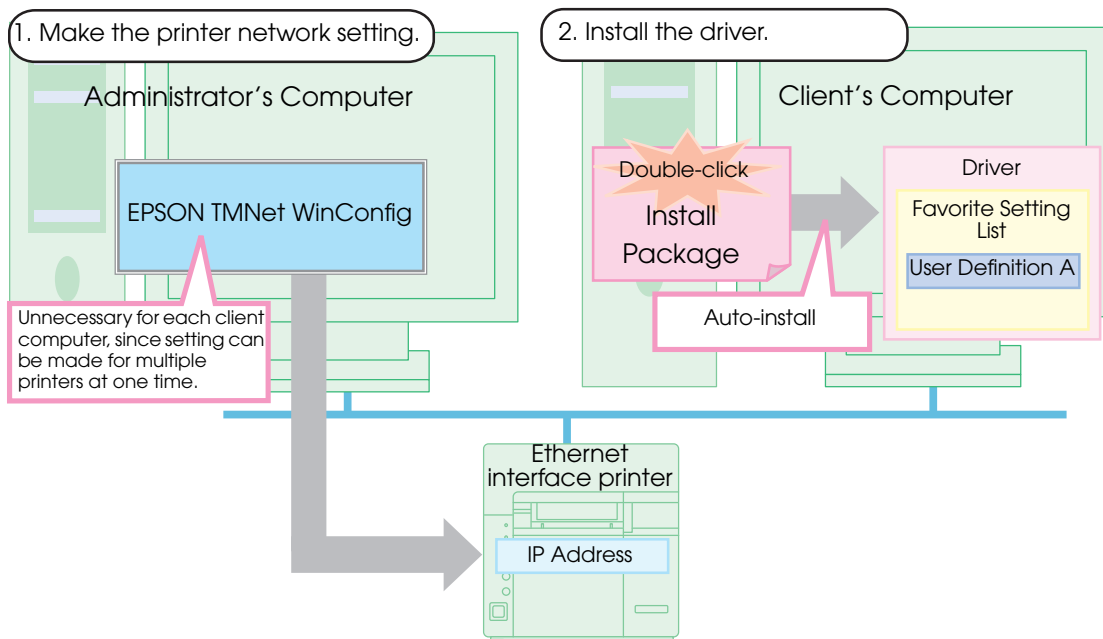
Distribution Method for USB Interface Model

The basic flow of the distribution method is described below.



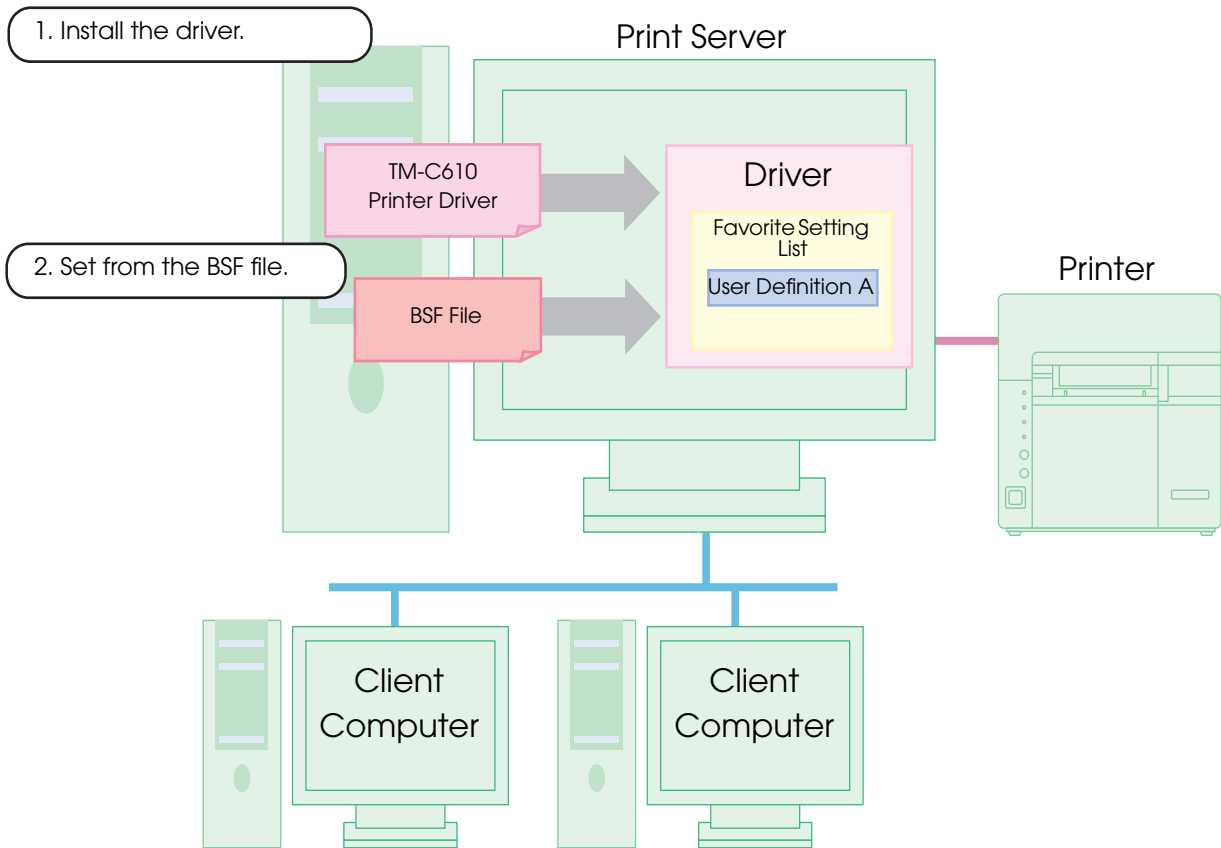
Distribution Method for the Ethernet Interface Model

The basic flow of the distribution method is described below.



Distribution Method for the Shared Printer

The basic flow of the distribution method is described below.



NOTE

For a shared printer, install to the print server using the TM-C610 printer driver. Do not install using the install package.

Setup of the Printer

See [Chapter 2 "Setup"](#) to complete the setup of the printer.

Maintenance

This section describes the following contents.

- ❑ Adding a client computer (for the Ethernet interface model) ([page 115](#))
- ❑ Adding a printer ([page 116](#))
- ❑ Adding a paper type/changing the print setting ([page 117](#))
- ❑ Replacing the printer ([page 117](#))

Adding a Client Computer (for the Ethernet Interface Model)

To add a client computer, install the printer driver and make the settings by following the steps below.

- ❑ Item to be prepared by the administrator
 - The install package for the existing printer.
- ❑ What to do after distribution
 - Double-click the icon of the install package on the client computer to install the printer driver

Adding a Printer

Follow the steps below to add a printer to print on the same media as the existing printer.

USB interface model

❑ Preparation

- The install package for the existing printer

❑ What to do on the client computer after distribution

- ① Double-click the icon of the install package on the client computer to install the printer driver.
- ② Connect the printer and turn it on.

Ethernet interface model

❑ Items to be prepared by the administrator

- Network information for the printer to be added
- Install Package

Prepare the BSF file for the existing printer driver and the install package including the network information.

❑ What to do after distribution

- ① Set the network information for the printer to add using EPSON TMNet WinConfig.
- ② Double-click the icon of the install package on the client computer to install the printer driver.

Adding a Paper Type/Changing the Print Setting

Follow the steps below to add a paper type or change the print setting of the printer driver on each client computer.

- ❑ Item to be prepared by the administrator
 - The BSF file for the existing printer driver

Follow the steps below to create the BSF file

 - ① Set the new paper type in the print setting for the existing printer driver, and register it to the [Favorite Setting]. Make sure the print setting for the existing paper type has also been registered.
 - ② Place the print setting for the new paper at the top of the [Favorite Setting] list.
 - ③ Export the BSF file.
- ❑ What to do on the client computer after distribution
 - Import the BSF file in the printer driver.

NOTE

Be sure to register also the print setting for the existing paper type to the [Favorite Setting] list. Otherwise, it is deleted when importing the BSF file.

Replacing the Printer

When replacing a printer due to such causes as malfunction, follow the steps below.

USB interface model

In a system in which the USB interface model printers are connected to multiple client computers, you do not need to set the client computer when replacing the printer if you have set the same USB serial number to the printer.

You cannot connect more than one printer that has the same USB serial number to one client computer. It is possible only for a different client computer. The USB serial number can be changed with the TMUSB Identifier Utility (TMUSBID.exe).

NOTE

Normally, when a new USB interface model printer is connected, a new printer driver (printer queue) and a new USB port are created on the client computer. It is necessary to change the port when printing with the new printer from the application on the client computer.

❑ Preparation

Follow the steps below to copy the printer setting including the USB serial number to another printer.

- ① Set the USB serial number of the existing printer using the TMUSB Identifier Utility.
- ② Disconnect the existing printer from the computer.
- ③ Connect a new printer to the computer.
- ④ Set the same USB serial number as that of the existing printer to the new printer using the TMUSB Identifier Utility.

To set the same USB serial number to multiple printers, repeat ③ and ④ described above.

❑ Replacing procedure

- ① Disconnect the existing printer, and connect the new one on which the USB serial number has been set.
- ② You can print using the same printer port as before, since the same USB serial number is set. You do not need to change the client computer or the application.

Ethernet interface model

Set the new printer the network settings such as the IP address of the existing printer. Setting is made with EPSON TMNet WinConfig. The printer driver setting is not necessary.

❑ Preparation

- Obtain the network information (such as IP address) of the existing printer using EPSON TMNet WinConfig.

❑ Replacing procedure

- ① Disconnect the existing printer from the network.
- ② Connect the new printer to the network, and turn it on.
- ③ Make the network setting for the new printer according to setting information of the existing printer using EPSON TMNet WinConfig.