



***ESPO***  
***PATH SLIDE PRINTER***  
***Instruction Manual***

# FCC compliance Statement

## FCC WARNING:

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

## INFORMATION TO THE DIGITAL DEVICE USER REQUIRED BY THE FCC:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area, is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

# Contents

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Safety precautions.....	4
Cautions on safe use of this product.....	5
<i>Confirmation at unpacking.....</i>	<i>8</i>
<i>Names and functions.....</i>	<i>12</i>
<i>Description of operation panel.....</i>	<i>14</i>
Preparations.....	17
<i>Method of change to Japanese display.....</i>	<i>23</i>
Method for changing the setting mode.....	24
Setting of interface.....	28
<i>Connection of barcode scanner.....</i>	<i>29</i>
Troubleshooting.....	30
Daily maintenance.....	39
Printable area.....	42
Cautions on use of printer driver.....	43
<i>Regarding the use of specified harmful substances.....</i>	<i>44</i>

# Safety precautions

◆ Meaning of icons

This section describes various cautions for using the product safely using icons.  
Each meaning is shown below.

	<b>WARNING</b>	Describes the content that may cause death or heavy injury of user if the product is handled wrongly ignoring this indication.
	<b>CAUTION</b>	Describes the content that may cause physical loss such as disability of user if the product is handled wrongly ignoring this indication.

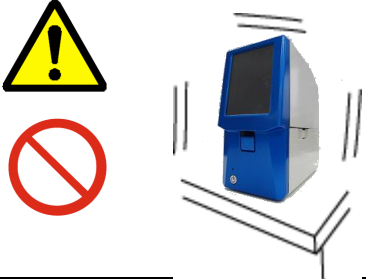
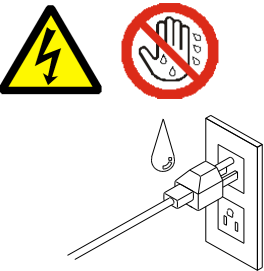
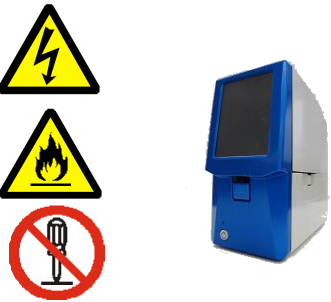

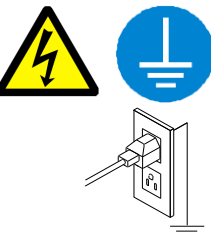
## Example of icons

	The symbol means <u>red-flag item</u> . The concrete content of caution is shown in the diagram.	Example		Caution, electricity
	The symbol means <u>prohibited item</u> . The concrete content of caution is shown in the diagram	Example		Disassembly prohibited
	The symbol means <u>specified item</u> . The concrete content of caution is shown in the diagram.	Example		Disconnect the plug

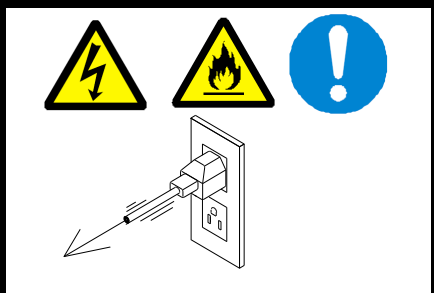
# Cautions on safe use of this product

\* Be sure to follow the content shown below to use this product safely.  
Do not carry out any item that is not shown in this section.

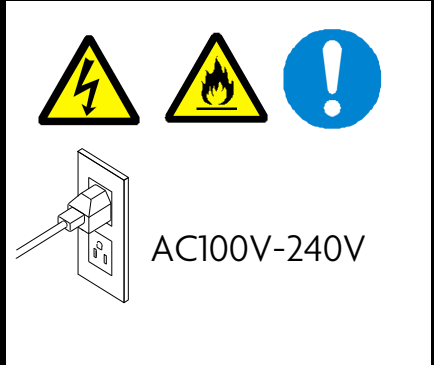
## WARNING

<ul style="list-style-type: none"> <li>Do not install the device at an unstable place or place where there is vibration. Otherwise, the device may drop or cause a fall and you may get injured.</li> </ul>	
<ul style="list-style-type: none"> <li>Do not connect or disconnect the power cord by a wet hand. Otherwise, electric shock may be caused.</li> </ul>	
<ul style="list-style-type: none"> <li>Do not disassemble or modify the device. There are high-voltage points in the device and fire or electric shock may be caused. For inspection and repair, please contact the delivery agent you purchased the product or our company's customer service.</li> </ul>	
<ul style="list-style-type: none"> <li>If a defect such as smoking and strange odor is generated and the device is continuously used, fire or electric shock may be caused. Turn OFF the power switch immediately and pull out the plug of power cord from the outlet, and then contact our company's customer service.</li> </ul>	
<ul style="list-style-type: none"> <li>Be sure to connect a grounding wire when you use the product. If a grounding wire is not connected to the grounding terminal, electric shock may be caused.</li> </ul>	

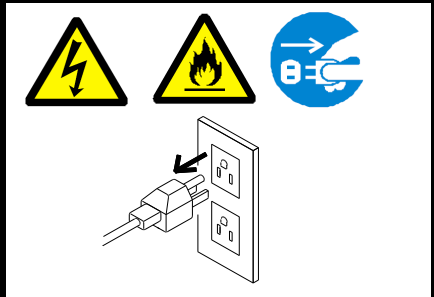
● When you pull out the power cord, be sure to hold the plug. If you pull the cord, the power cord may be damaged and fire or electric shock may be caused.



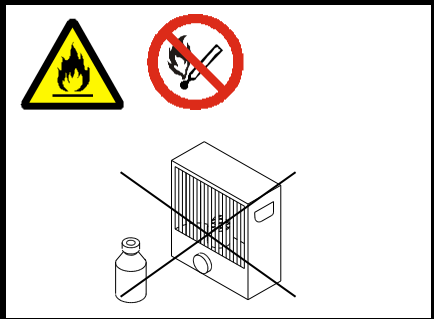
● Do not use this product at the power supply voltage other than AC100 – 240V.  
Fire or electric shock may be caused.  
Power supply voltage: AC100-240V  
Power supply frequency: 50/60Hz



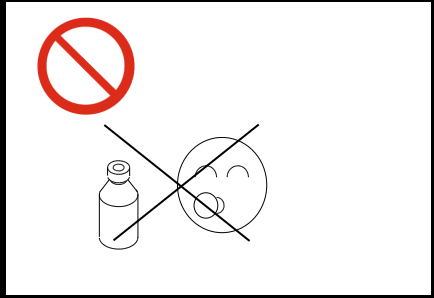
● Before cleaning, be sure to turn OFF the power supply and pull out the insertion plug of power cord from the outlet. Otherwise, short-circuit or electric shock may be caused.



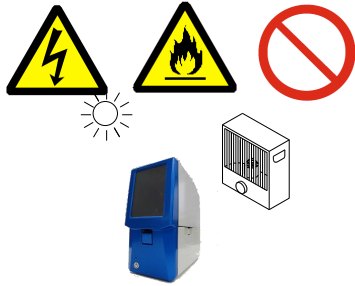



● The cleaning agent is combustible solvent. Do not heat it up or put it near fire. Otherwise, fire may be caused.






● Do not put the cleaning liquid at a place within reach of a child. Drinking it by mistake is very dangerous. If a child drink it by mistake, please talk to your nearest doctor.



 CAUTION

<ul style="list-style-type: none"> <li>● Do not install the device at a place where there is much humidity or dust, place where is exposed to direct sunlight, highly humid place, or place near fire. Otherwise, fire or electric shock may be caused. Ambient temperature is 5 to 35°C, humidity is 35 to 80%(no dew condensation) Use the product within the specification range shown above.</li> <li>● Do not use the product at a place where the elevation is 2000m or more.</li> </ul>	
<ul style="list-style-type: none"> <li>● Open and close the cover of main unit carefully not to get your hand or finger caught in it. Otherwise, you may get injured.</li> </ul>	
<ul style="list-style-type: none"> <li>● While the device is operated, do not move your hand or any object close to the inside of device. Otherwise, personal injury or failure may be caused.</li> </ul>	
<ul style="list-style-type: none"> <li>● Rated time and down time of this product are shown below. Please use the product keeping the rated time. Otherwise, fire or failure may be caused. Rated time 10 minutes (down time 30 minutes)</li> </ul>	

<ul style="list-style-type: none"> <li>● This product uses the electric wave of 2.4GHz band frequency. The license of wireless station is not required for using this product, however, pay attention to the following points.</li> <li>○ Do not use the product near the following.             <ul style="list-style-type: none"> <li>- Industrial / medical devices such as pacemaker</li> <li>- Wireless station that requires license, which is used at production line etc. of plant</li> <li>- Specific power-saving wireless station (wireless station that does not require license)</li> <li>- Operate the product at a place 20cm away from the antenna.</li> <li>- Please do not use antennas other than the accessories.</li> </ul> </li> </ul> <p>If this product is used near the items shown above, interference of electric wave may be generated.</p>	
<ul style="list-style-type: none"> <li>● Do not use cellular phone, PHS, TV, or radio near this product wherever possible. These items use the frequency different from that of wireless LAN, however, if they are used near this product, noise may be generated in sound or video due to the effects of electric waves emitted from this product.</li> </ul>	
<ul style="list-style-type: none"> <li>● If there is reinforcing bar, metal, or concrete in the space, the communication is disabled. The electric wave cannot pass through reinforcing bar, metal, or concrete. If these items are used for the wall of room, the communication is disabled.</li> </ul>	





# Confirmation at unpacking

\* Open the package and check if there are following accessories.

<CAUTION> The packing box and the interior material are required for transportation. Be sure to keep them.

<i>Main unit</i>		
		
<i>AC adapter</i>	<i>Power cable</i>	<i>Magazine (option)</i>
		
<i>Ribbon cassette</i>	<i>Spool holder × 2</i>	<i>Front cover cap</i>
		
<i>Set on the main unit</i>	<i>Set in the ribbon cassette</i>	<i>Set on the main unit</i>
<i>20-sheet stacker</i>	<i>Manual feeding tray</i>	<i>Ink ribbon with Paper pipe</i>
		
<i>Tweezers</i>	<i>Cleaning kit</i>	<i>Fall-prevention stay (with screw)</i>
		



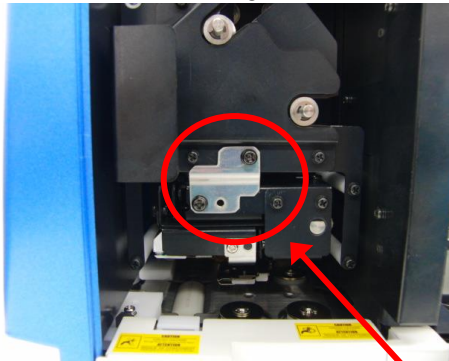
Simplified installation manual	Driver CD	Antenna for wireless LAN
		 <p>* There are models that don't have wireless LAN.</p>
Japanese CAUTION stickers		
		

### Removal of fixing bracket for transportation

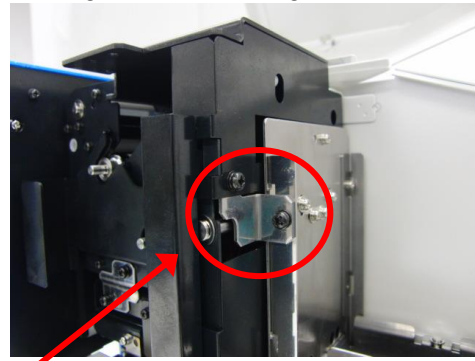
Head unit and magazine holder are fixed with fixing bracket as a measure against failure at transportation.

Remove them before using the product.

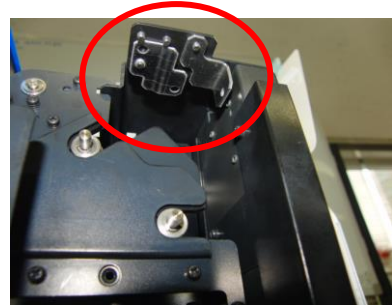
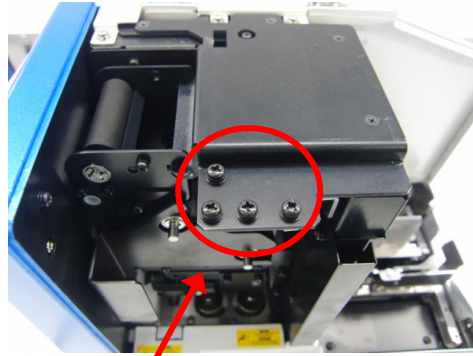
Head unit fixing bracket



Magazine holder fixing bracket



Unscrew two screws at each point.

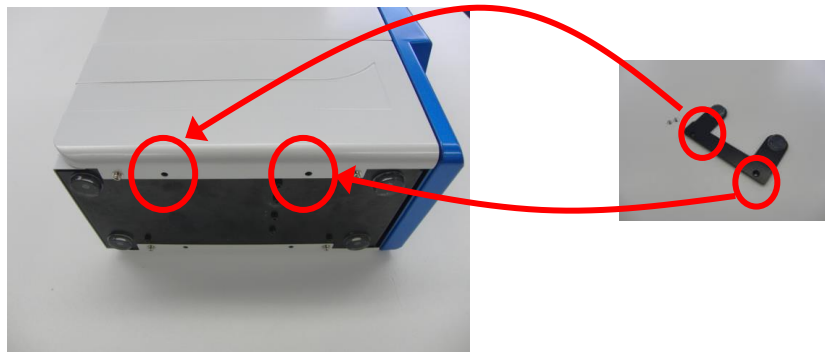


How to attach the fixing bracket

Keep the removed screws and brackets not to lose.  
They are required for transportation.

#### Attachment of fall-prevention stay

Attach the fall-prevention stay preventing this product from falling during the use.



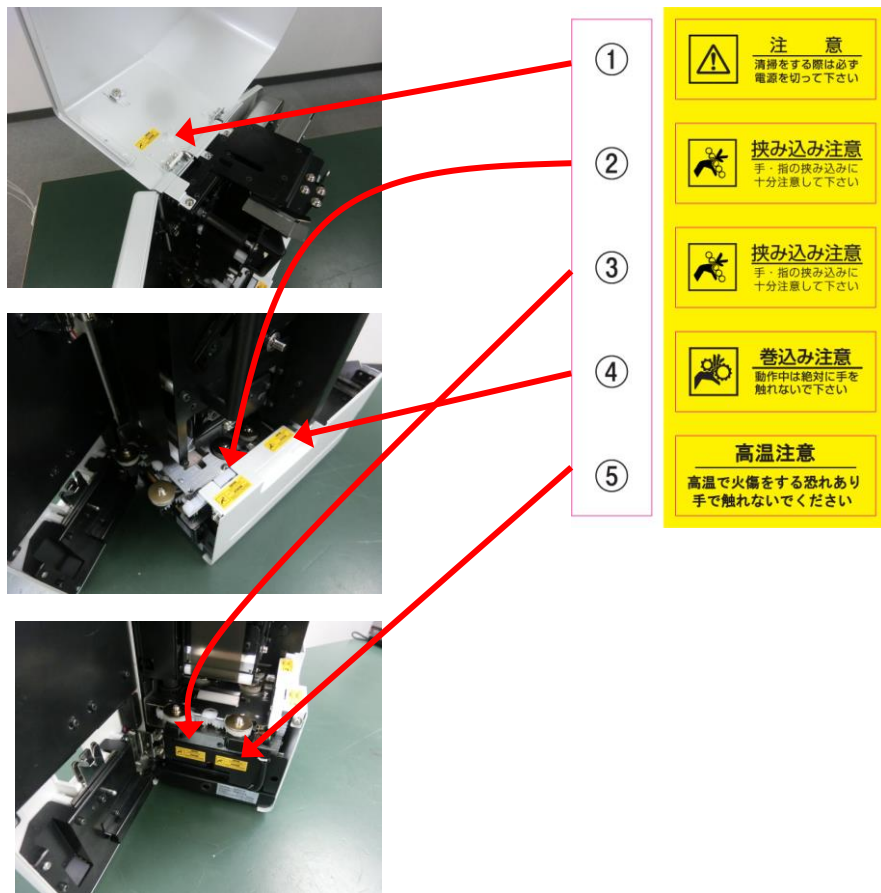
Unscrew two binding screws (M3) that have been secured.  
Fix the stay with two countersunk screws (M3) included with the product. Fix it so that the BUMPON's attached to the stay face the lower side.





### Replacement of CAUTION sticker

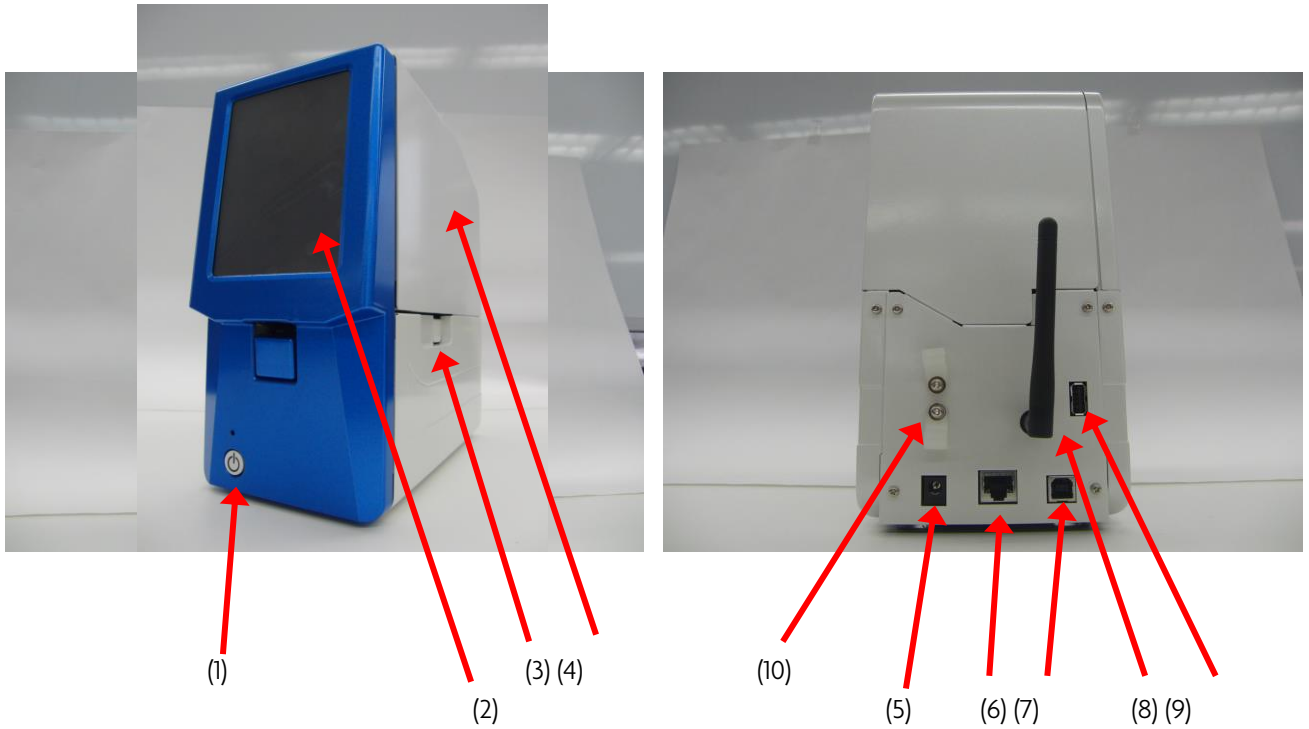
If the place where the product is used is Japan, please change the attached CAUTION sticker to Japanese version.



### Change of language display on touch panel liquid crystal display

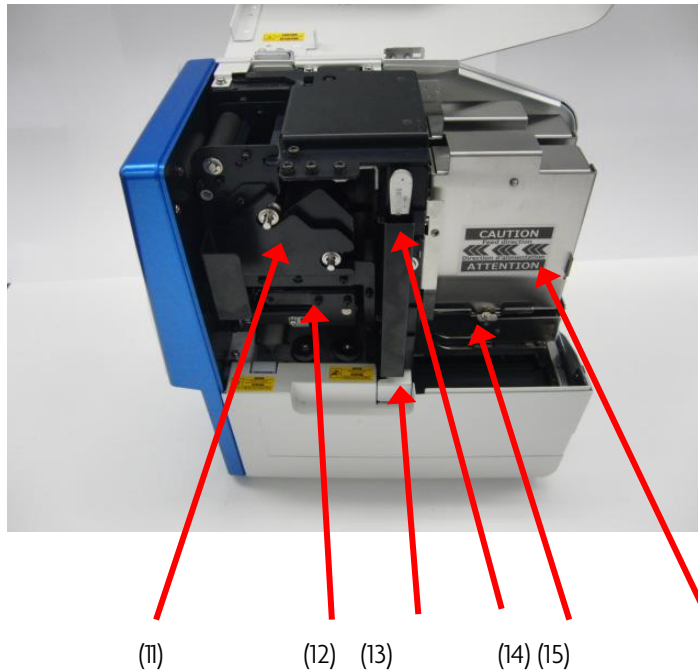
When the product is shipped, the language display is set to English. To change it to Japanese, change the language display to Japanese referencing “Method of change to Japanese display”.

# Names and functions



No	Name	Function
(1)	Power switch	Power switch of main unit
(2)	Liquid crystal display / operation section	Status display and change of setting can be implemented from touch panel liquid crystal display
(3)	Dust tray	Removable tray for collecting the dust removed from frost surface
(4)	Upper cover	Cover to be opened when accessing the inside of device. Ink ribbon and slide glass are set from here.
(5)	Power connector	Insert the jack from AC adapter.
(6)	LAN connector	Connector of wireless LAN
(7)	USB connector	USB connector
(8)	Wireless LAN antenna	Antenna for wireless LAN * There are models that don't have wireless LAN.
(9)	USB A connector	Connect the USB memory at the connection of optional barcode scanner or download of firmware
(10)	Cable clamp	Clamp that prevents disconnection of power supply and I/F cable

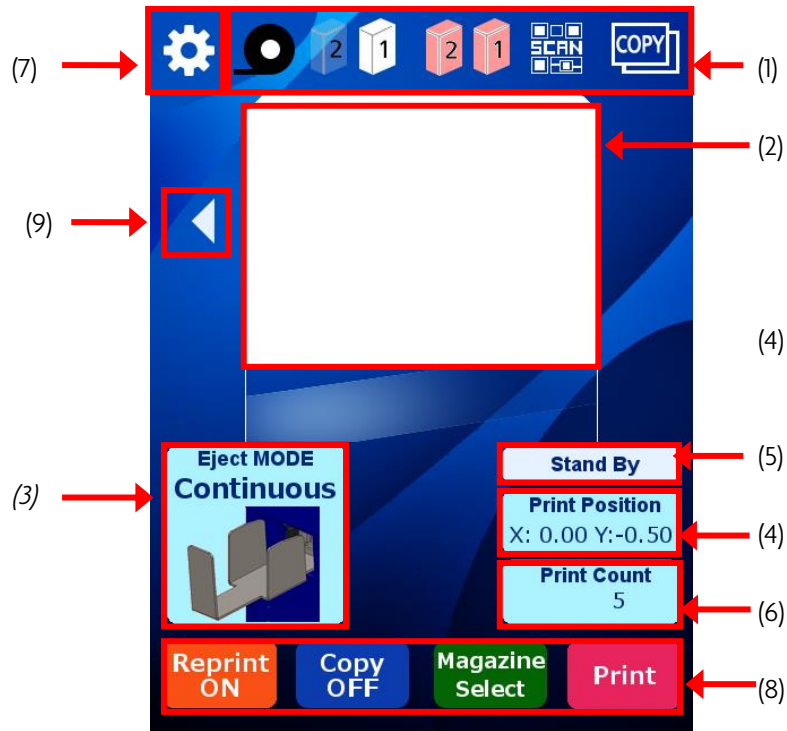
When the open cover is opened



No	Name	Function
(11)	Ribbon cassette	Cassette in which ink ribbon is set
(12)	Head unit	Transcribes the ink ribbon to the frost section by heat
(13)	Dust tray	Tray for collecting the removed glass powder
(14)	Tweezers holder	Holder for storing the tweezers
(15)	Magazine holder	Holder in which magazine containing the slide glasses is set
(16)	Magazine	Magazine containing the slide glasses. There are two types of magazines; one-time disposable magazine and metallic magazine that can be repeatedly used.

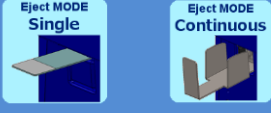









# Description of operation panel

Copy mode standby screen





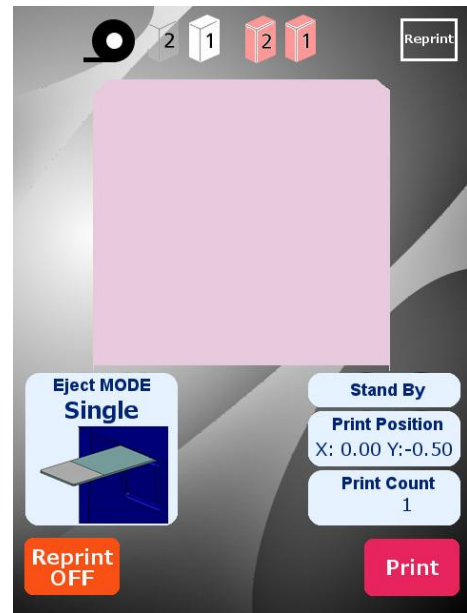
(This is the display when the language is set to ENGLISH)

Item	Function	Display	Description
(1)	Ribbon level display		Displays the residual quantity of ink ribbon. The residual quantity is displayed in three levels.
	Magazine set display		Displays whether a magazine is set or not. If a magazine is not set, the display is clear.
	Magazine selection display		Displays the selected magazine.
	Scanner status display		Displays whether the reading is available when the scanner is connected (option).
	Interface display		Displays the selected interface.  * There are models that don't have wireless LAN.



(2)	Preview display		Displays the print data to be printed.
(3)	Switching of discharge mode	<p>Single mode    Continuous mode</p>  <p>Front 1 mode    Front2 mode</p> 	<p>Displays the setting mode of discharge operation.</p> <p>* When the front loading is used, the frost direction varies between front 1 and front 2.</p>
(4)	Print position correction		The print position can be corrected.
(5)	Status display	Stand By Printing	Displays the status of printer.
(6)	Print count display		Displays the received print count or the print count.
(7)	Setting mode		Various settings can be implemented.
	Reprint mode		<p>It is possible to reprint a sheet of data in the past.</p> <p>* This function is not usable in the continuous mode.</p>
	Switching of copy mode		Switches I/F connection mode and copy mode.
(8)	Selection of magazine		Switches the magazine you want to use.
	Print button		Starts the printing in the copy mode.
	Switching of frost display		<p>Changes the frost length of preview display in the copy mode.</p> <p>In case of 25mm frost, ◁ is displayed In case of 20mm frost, ▷ is displayed</p>

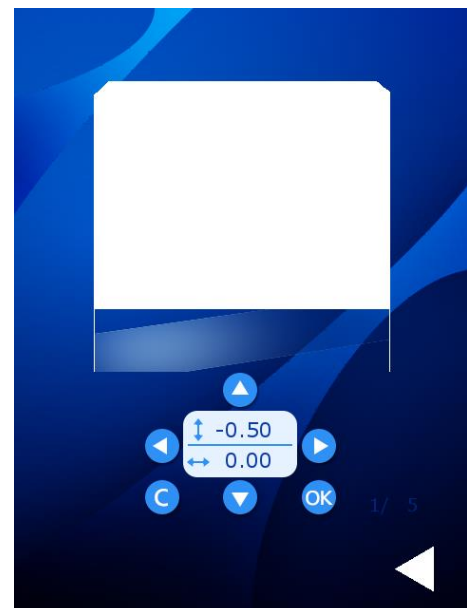
### Reprint mode screen

Switching of reprint mode		Switches to usual mode
Print		Executes reprint



### Print position correction mode screen

Position correction		Press the arrows to correct the print position. The print position is registered by pressing OK. The print position returns to the previous registration status by pressing C.
Return		The screen returns to the standby screen.

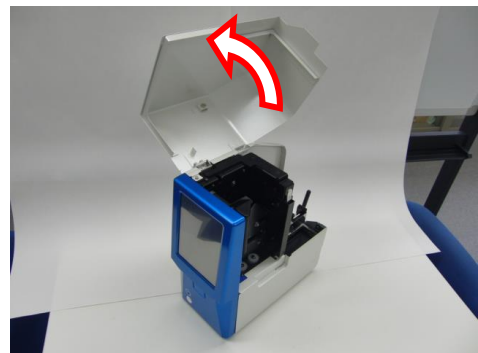


\* Do not send print data on the print position correction mode screen.  
If the print data is sent, the position correction value may not be reflected.



# Preparations

[1] Open the upper cover.

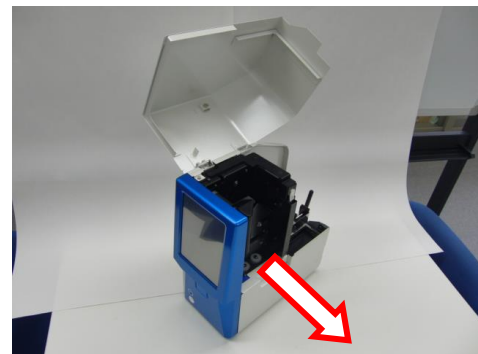


[2] Pull out the ribbon cassette.

Hold the handle and pull it out in a transverse direction.



Ribbon cassette

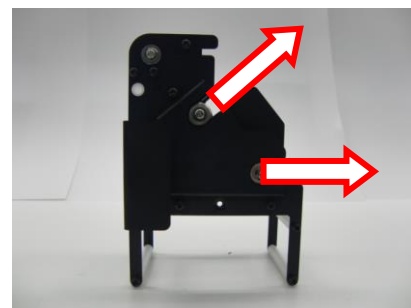


[3] Pull out the spool holder from the ribbon cassette.

Pull it out straightly along the groove.

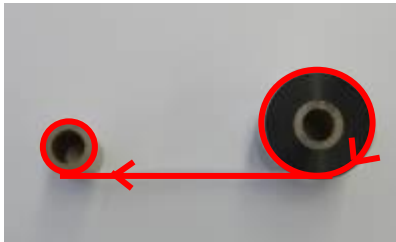


Spool holder



[4] Set an ink ribbon in the spool holder.

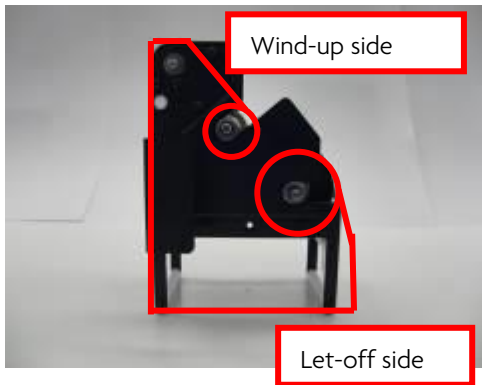
Peel off the tape that secures the ink ribbon and the paper core.



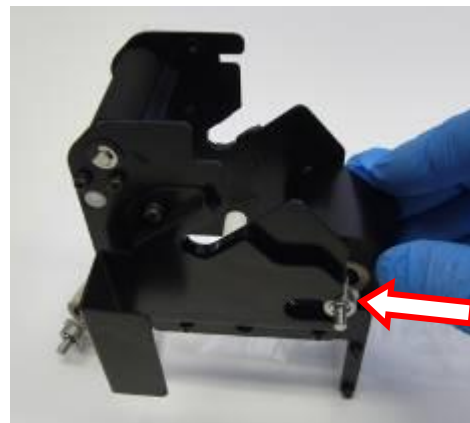
The ink surface is outside.  
Set the ink ribbon in the spool holder so that the ink surface faces outside.

[5] Set the ink ribbon in the ribbon cassette.

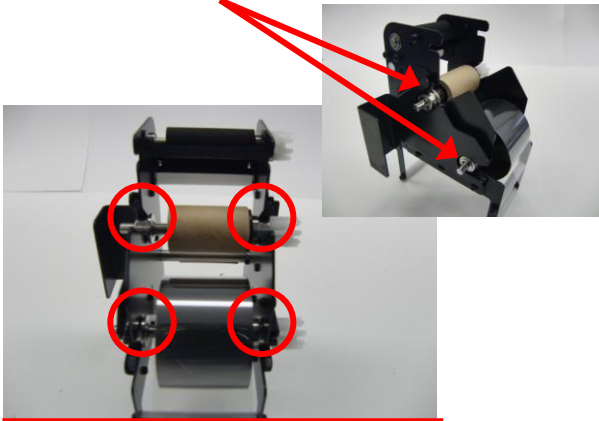
Ink ribbon set route



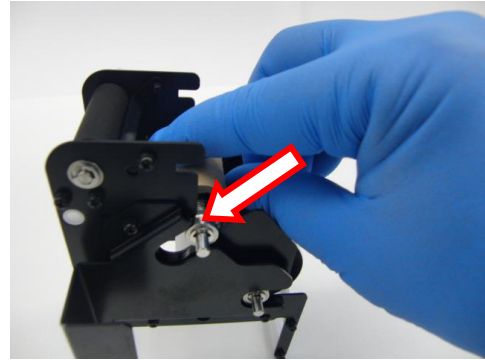
Set the ribbon cassette as shown below.



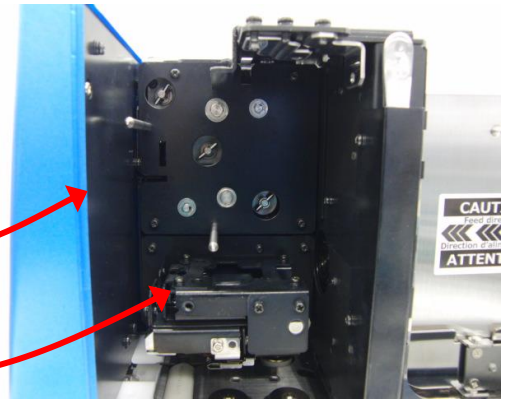
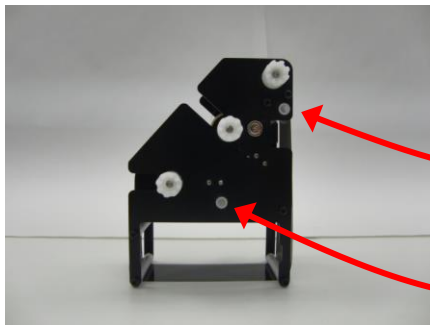
Spool catch



Insert the spool holder in the spool catch surely.



[6] Set the ribbon cassette in the main unit.



[7] Set a slide glass in the metallic magazine.

\* The disposable magazine can be set directly.

(1) Press the button



(2) Raise the cover

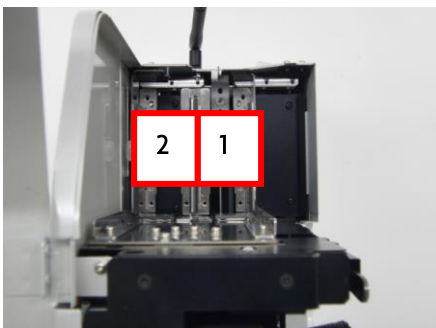
Set a slide glass in the magazine.



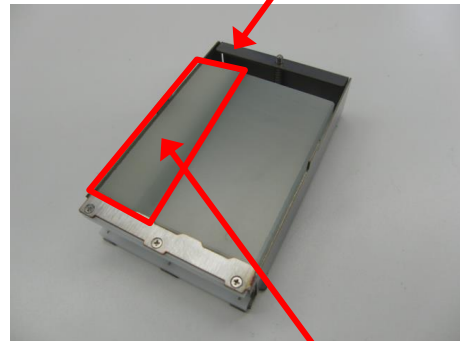
For the slide glass at the bottom, the frost surface is reversely set. When you set it in the magazine, change the direction.

Two magazines can be set.

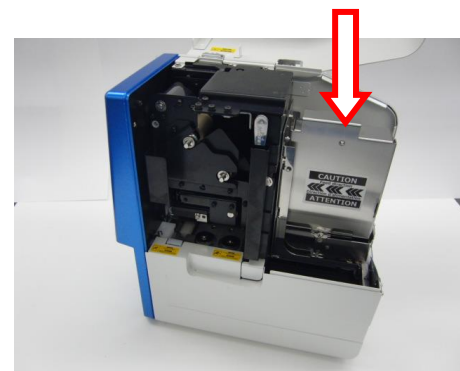
The magazine on the right side seen from the front surface of device is magazine 1 and the left side is the magazine 2.



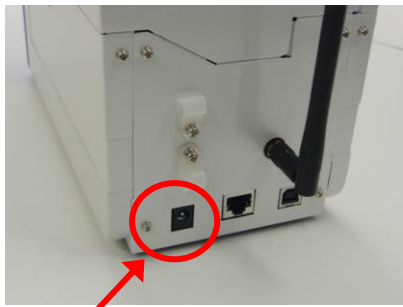
Frost surface



Frost side



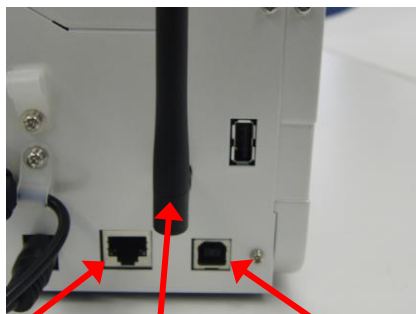
[8] Set the power supply (DC jack).



DC input part

\* There are models that don't have wireless LAN.

[9] Set the interface cable.



Wireless LAN    Wireless LAN antenna    USB

[10] Select and attach cap, stacker, and tray.



Front cover cap



20-sheet stacker



Manual feeding tray



Select a part to be attached to this section.

In the single sheet mode, set the front cover cap (attached when the product is shipped).

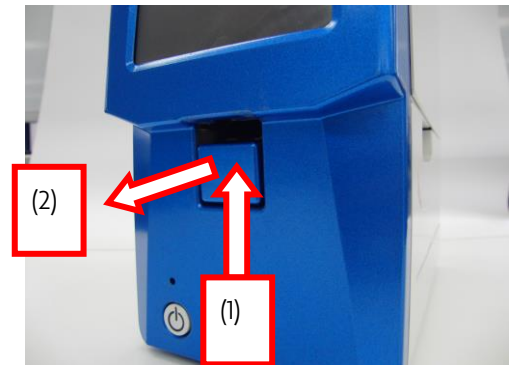
To use the product in the continuous mode, set the 20-sheet stacker.

To use the product for front loading, set the manual feeding tray.

In any usage, attach cap, stacker, or tray by hitching it to the groove on main unit side.

**[1] Turn ON the power supply.**

How to remove the front cover cap



# Method of change to Japanese display

Here shows the method for changing the language display to Japanese.



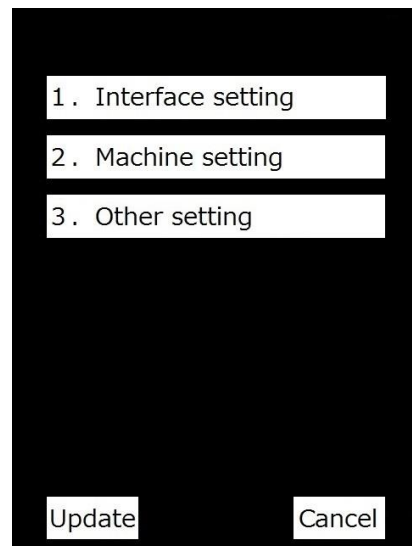
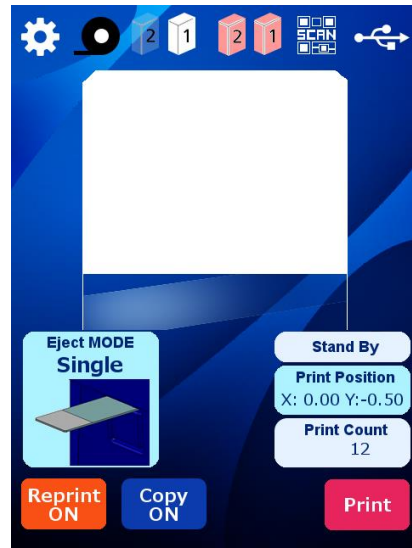
The mode shifts to setting mode.

3. Select "Other setting".

2. Change the LCD language from ENGLISH to JAPANESE and press  $\Delta$  button to return to the setting main screen.



Press "Update" to change the setting.  
Turn OFF the power supply once, and then use the product.



# Method for changing the setting mode

Here shows the method for changing the setting of printer.



The mode shifts to setting mode.

The following settings are available.

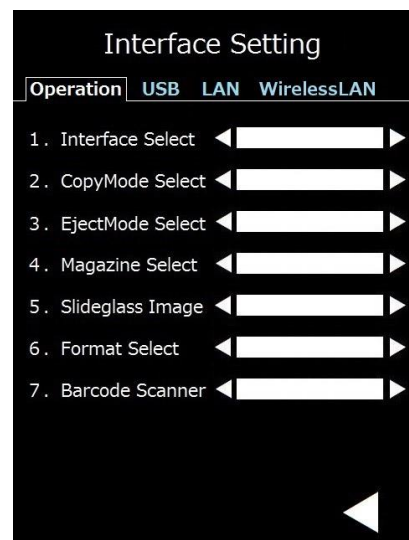
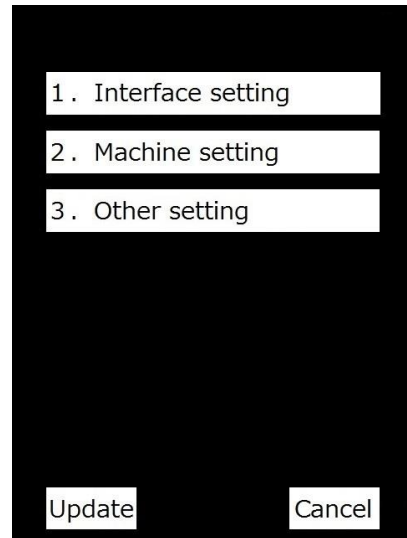
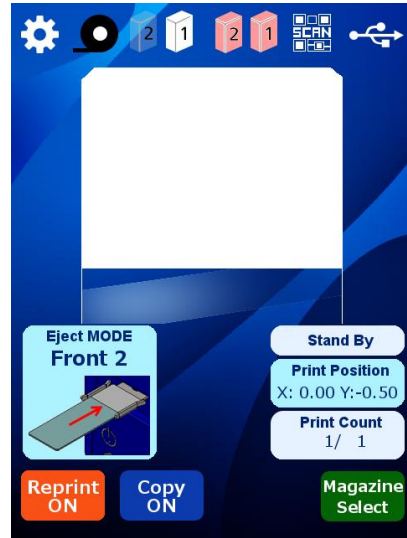
1. Interface setting
2. Machine setting
3. Other setting

## 1 Interface setting

### Change of operation mode

1. Interface select  
Set the interface when the product is used by connecting it to PC.
2. Copy Mode select  
Set this setting when starting in copy mode by default (when the power is turned on).

ON → Start in copy mode  
OFF → Start in PC mode





### 3. Eject Mode select

Set the default (when the power supply is turned ON) discharge mode. Continuous → Printing is executed continuously.

Single → Each sheet stops at the discharge section.

Front loading 1 → Manual feeding mode 1

Front loading 2 → Manual feeding mode 2

The direction of frost varies between 1 and 2.

### 4. Magazine select

Set the magazine to be enabled.

### 5. Slide glass image

Not set currently

### 6. Format select

Set the 2D code to be printed in the copy mode.

### 7. Barcode Scanner

Specify whether the optional barcode scanner is connected or not.

## Change of USB mode

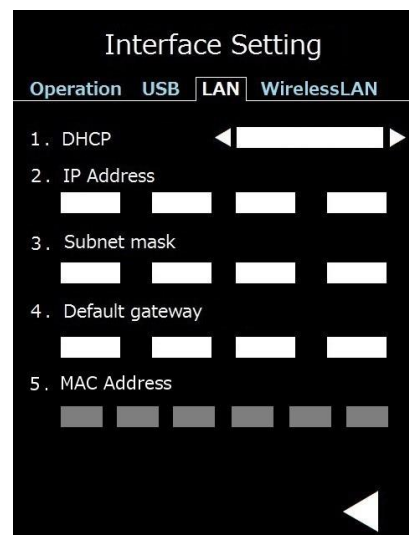
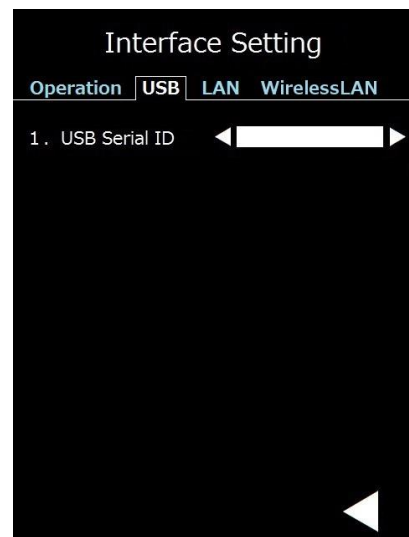
- 1 USB serial ID Set the ID of USB.

## Change of LAN mode

1. DHCP
2. IP address
3. Subnet mask
4. Default gateway Carry out each setting.
5. Show MAC address.



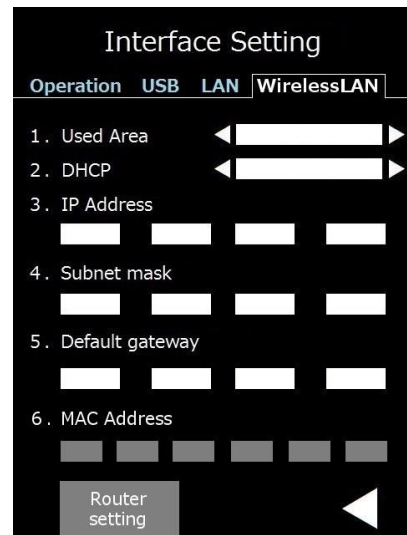
Items 2, 3, and 4 are input from keys.



## Change of wireless LAN mode

1. Used area
2. DHCP
3. IP address
4. Subnet mask
5. Default gateway router setting  
Carry out each setting.
6. Show MAC address.

\* There are models that don't have wireless LAN.



## 2. Machine setting

Various settings of printer can be implemented.

### 1. Print Density

The print density can be corrected.

### 2. Glass drawing position

It is possible to set the glass discharge amount in the single discharge mode.

### 3. Power-saving Transition mode

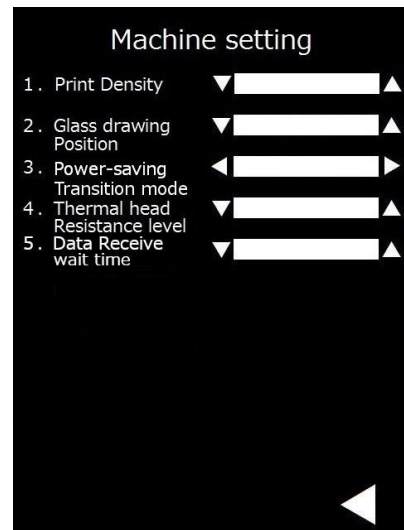
If the system enters energy-saving standby status, the Ribbon rewind mode (rewind) will be selected.

### 4. Thermal head resistance level

Set the correction of head resistance value.

### 5. Data Receive Wait time

Set the waiting time from the start of print data reception to the start of printing.



### 3. Other setting

It is possible to set or implement power saving standby switching time, language display switching, firmware update.

#### 1. Power saving wait time

Set the power saving standby time.

#### 2. LCD language

Switch the language to be displayed on LCD (English, Japanese).

#### 3. Buzzer

It is possible to enable / disable the buzzer in case of alarm, error, and operation.

#### 4. Firmware update

It is possible to update the firmware.

#### 5. Setting Export / Import

The setting information is written in the USB memory.

#### 6. Test print

It is possible to implement the test print.



# Setting of interface

---

## [1] USB ID

The initial value of USB ID is set to "1".

## [2] Port No. of network

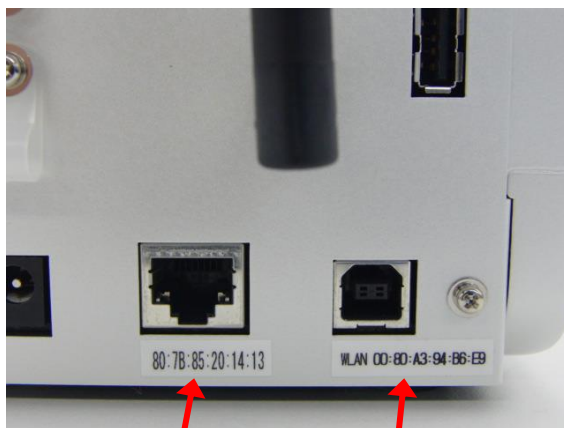
Interface	Printer driver	Command (bidirectional mode)	Command (simplex mode)
LAN	Protocol RAW Port TCP9100	Port TCP 51000	Port TCP 51000
Wireless LAN	Protocol RAW Port TCP9100	Port TCP 51000	Port TCP 51000

\* There are models that don't have wireless LAN.

## [3] MAC address

You can check the MAC address on the Interface Setting screen.

※ Some old firmware is displayed on the back panel interface connector section.



LAN

Wireless LAN

# Connection of barcode scanner

---

To use the product by connecting a barcode scanner to ESPO, it is necessary to carry out the setting as shown below.

Setting of prefix and suffix

Prefix: STX (Ctrl + B), Suffix: ETX (Ctrl + C)

Setting of interface

USB    HID

The barcode to be read have a digit limit.

When using copy mode (In the case of QR CODE) : 13 digits  
When using copy mode (In the case of Data Matrix1) : 13 digits  
When using copy mode (In the case of Data Matrix2) : 43 digits

※ contains the delimiter“ | ” ( 0 x7c)

When connected to a PC in status mode: 43 digits

※Notes on connecting the scanner

- 1 . Barcode data that can be used is only ASCII alphanumeric characters and symbols.  
The control code is not available.  
In addition to the above, the tilde symbol cannot be used when using DataMatrix1 and 2 in copy mode. Please be careful.  
If unavailable barcode data is used, it may not work properly.
- 2 . The scanner can only be used with the US keyboard specification.  
When set to other than US keyboard specification,  
barcode data may be garbled.  
Please be attention.

# Troubleshooting

[1] Description of error or alarm and coping process

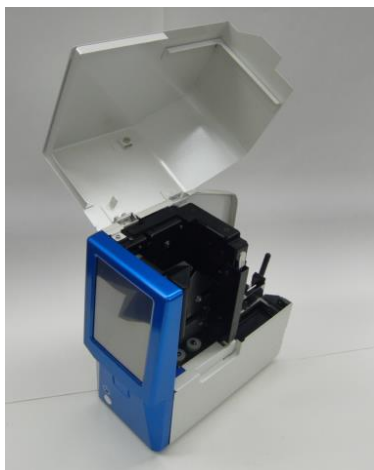
Indication	Error No.	Description	Coping process
Front Cover Open	E001	The front cover is open.	Please close the cover.
Upper Cover Open	E002	The upper cover is open.	Please close the cover.
Magazine Not Set(Slide Glass End)	E003	The upper cover is open.	Please close the cover. * Refer to "Preparations".
Kick Position Error	E004	The kick action could not be implemented properly.	Check for slides in the magazine holder If slides are present, remove slide Refer to" 3 "
Magazine holder Switching Error	E005	The magazine holder could not be switched.	Check for slides in the magazine holder If slides are present, remove slide Refer to" 3 "
Ribbon Cassette Error	E006	Ribbon unit is out of position	Install ribbon unit * Refer to "Preparations".
Ribbon end	E007	Ink ribbon has run out	Refill ink ribbon * Refer to "Preparations".
Head Error	E008	Thermal head has failed	Turn off power and replace thermal head Refer to"7"
Head Position Error	E009	The head unit cannot be operated.	Check head unit for foreign objects Refer to"4"
Stack Full	E010	Slide stacker full	Empty slide stacker
Jam Error	E011	The slide glass is clogged at the discharge section.	Remove jammed slides Refer to"5"
Jam Error(Front)	E012	The slide glass is clogged at the front panel section (discharge section).	Push recovery button ▲ If issue persists remove jammed or broken slides Refer to"6"
Jam Error(Middle)	E013	The slide glass is clogged at the transfer unit section in the printer.	Push recovery button ▲ If issue persists remove jammed or broken slides Refer to"6"
Jam Error(Rear)	E014	The slide glass is clogged at the transfer unit section in the printer.	Push recovery button ▲ If issue persists remove jammed or broken slides Refer to"6"
Data Receive Error	E900	The send data may not be correct.	Check data and interface connection To exit error screen restart power off/on printer
Internal Error	E999	An error is generated on the board.	Push recovery button ▲ If issue persists contact customer support

Before pulling out a slide glass clogged in the printer, be sure to turn OFF the power supply.

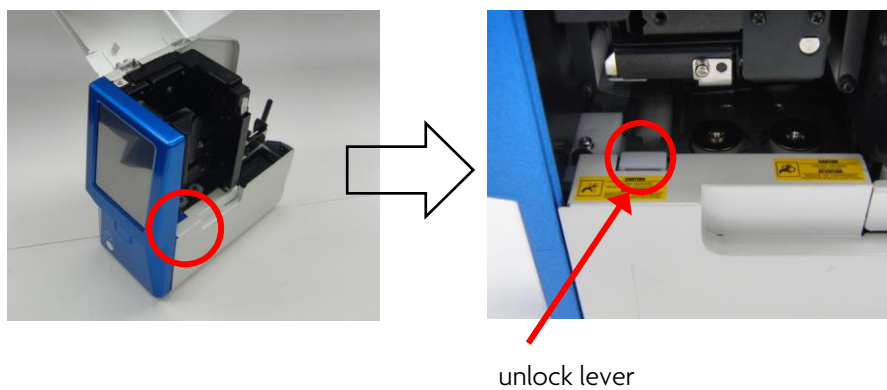


[2] How to open / close the front cover

[2]-1 Open the upper cover.



[2]-2 The front cover can be opened by pressing the unlock lever shown in the figure below.

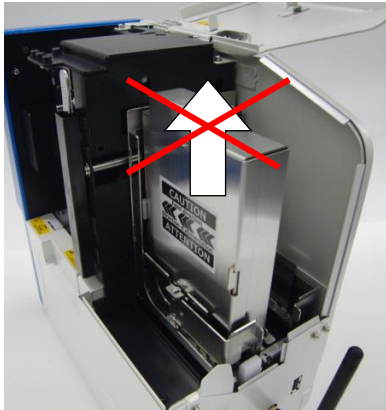


[3] Coping process when "kick position error" or "magazine switching error" is generated

[3]-1 A slide glass may be clogged in magazine or magazine holder.

※ If you try to pull out the magazine upward forcibly while a glass is clogged in the magazine holder, the glass will break up.

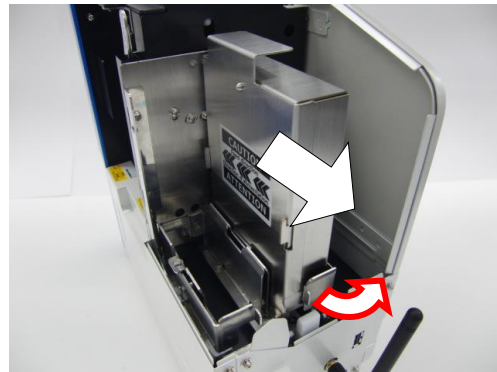
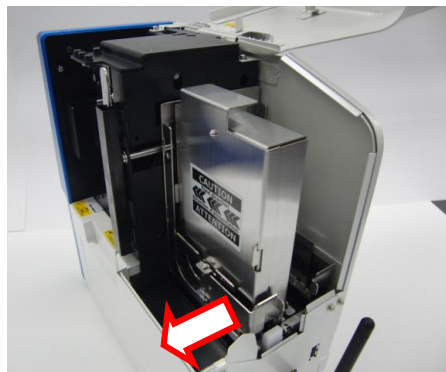
If the glass is clogged when you pull out the magazine upward softly, pull out the magazine from rear side because the rear side of magazine opens as shown in the figure below.



Do not pull out the magazine forcibly.



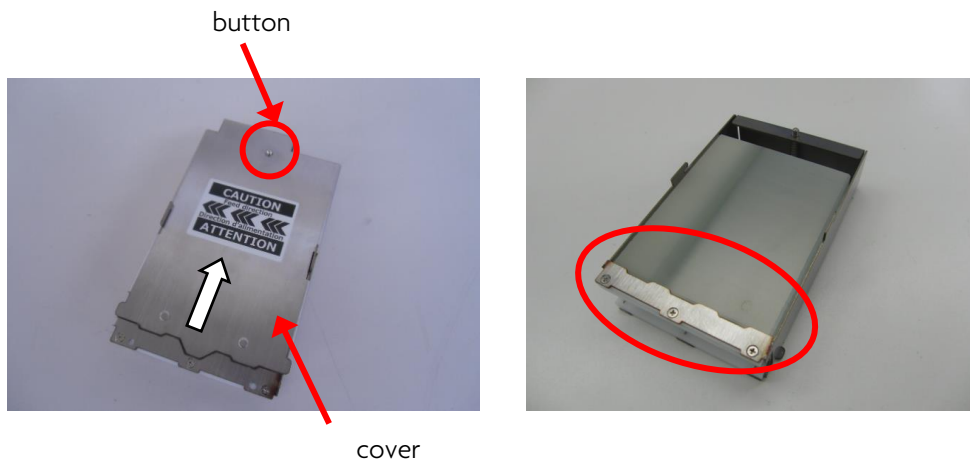
The guide opens. Pull out the magazine from rear side.



The magazine 2 side can be pulled out in a same way.



[3]-2 Next, press the button shown in the figure below and pull up the cover, and then check a slide glass is not clogged near circle mark position in the magazine.



[3]-3 Check a slide glass is not clogged (dropped) in the magazine holder.

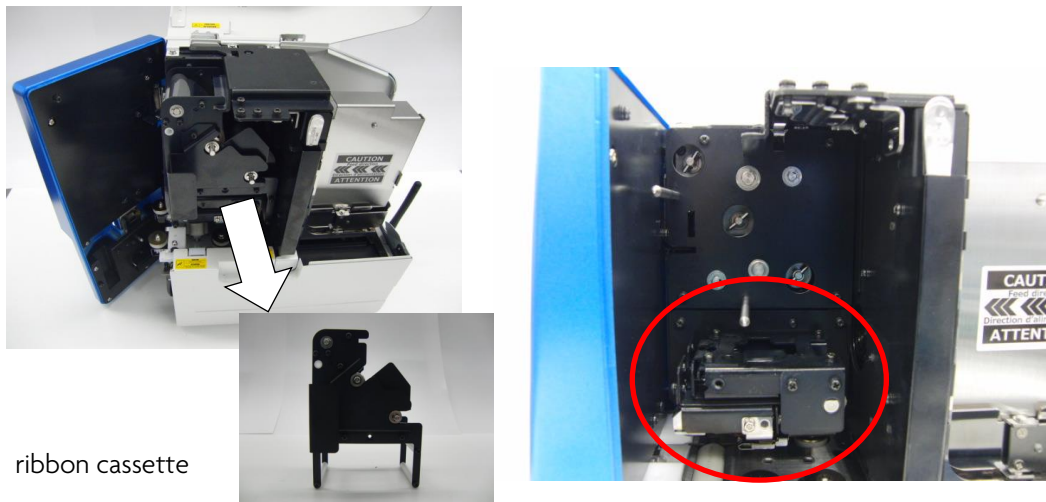
Remove the cover at the magazine holder section.



Check a slide glass is not clogged or not dropped within the circle mark.

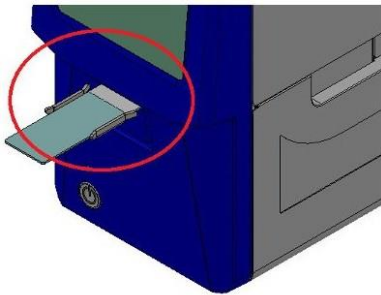
[4] Coping process when "head position error" is generated.

Pull out the ribbon cassette and check there is no foreign object at the head unit section (around circle mark).



[5] Coping process when "jam error" is generated

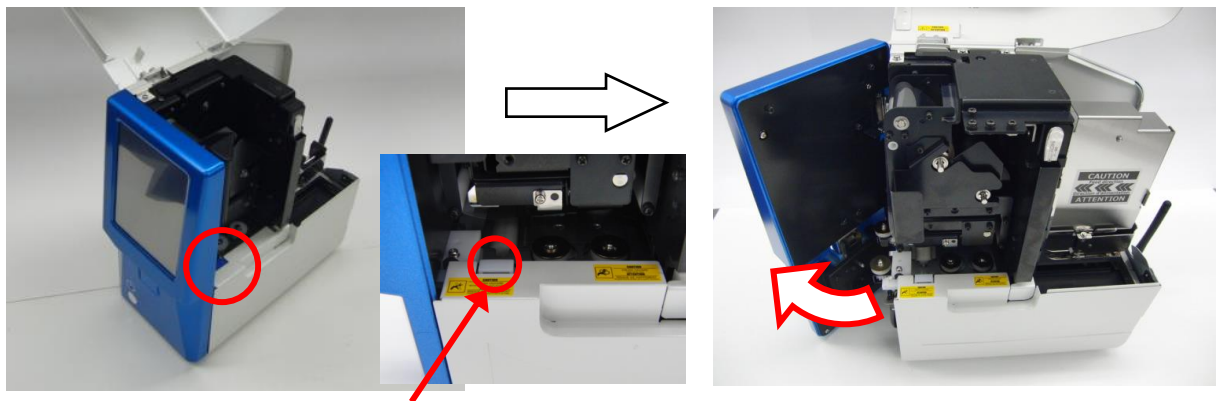
The glass is clogged at the front panel section as shown in the figure below. Remove it.



[6] Coping process when "jam error (front), (middle), (rear)" is generated

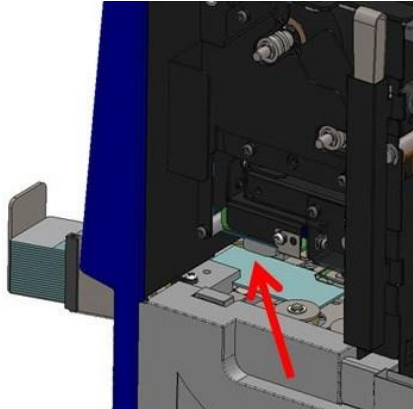
The glass is clogged at the transfer unit section. It is necessary to remove it. [6]-1

Press the unlock lever and open the front cover.

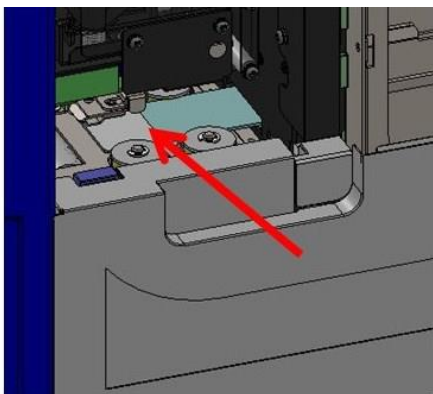


unlock lever

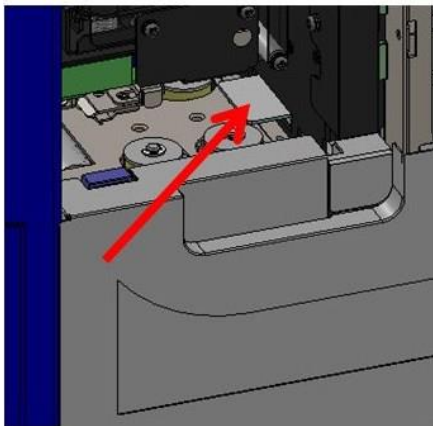
→ If "jam error (front)" is generated, the glass is clogged near the discharge side.



→ If "jam error (middle)" is generated, the glass is clogged near the lower section of print head.

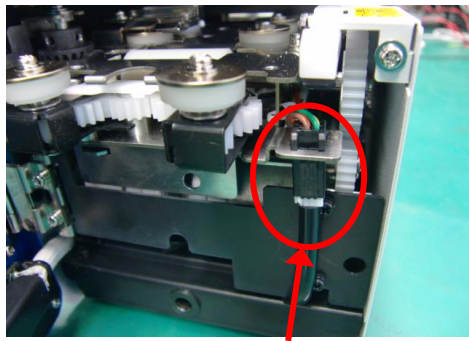


→ If "jam error (rear)" is generated, the glass is clogged near the magazine side.

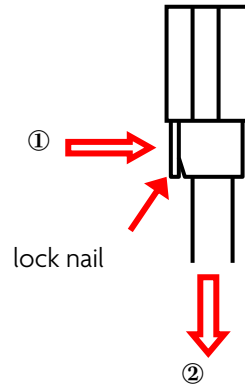
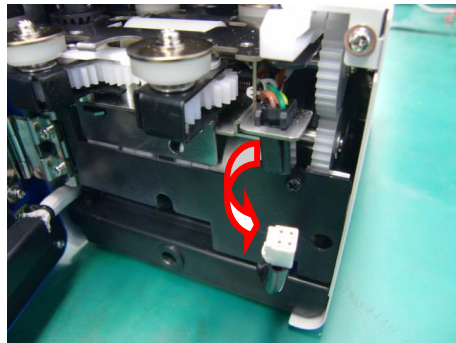


If the glass cannot be pulled out, remove the transfer unit following the procedure shown below.

[6]-2 Disconnect the connector.



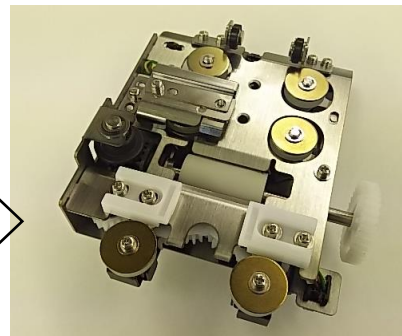
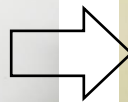
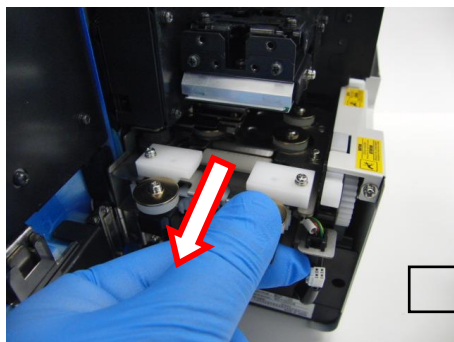
connector.



lock nail

While the lock nail is pushed toward ①, pull out the connector downward ②.

[6]-3 The unit can be pulled out by pulling the transfer unit forward.



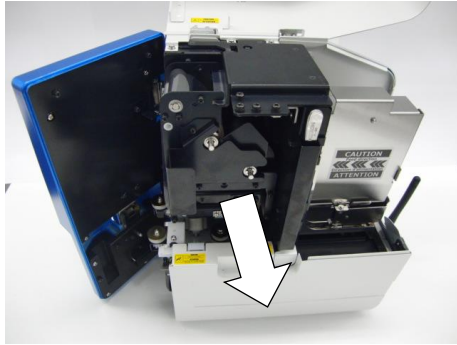
transfer unit

Remove the glass and restore the unit.  
Be sure to connect the connector the way it was.

[7] Coping process when "head shortage" is generated

When head shortage is generated, turn OFF the power supply and replace the thermal head with a new one following the procedure shown below.

[7] -1 Remove the ribbon cassette.

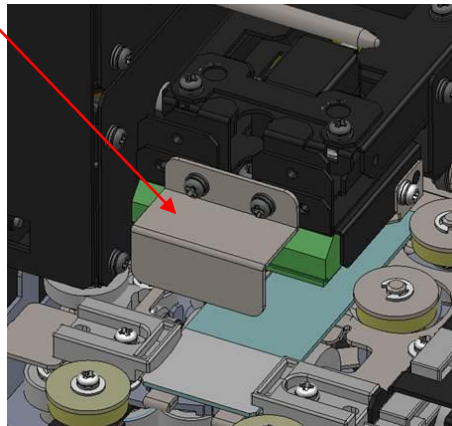
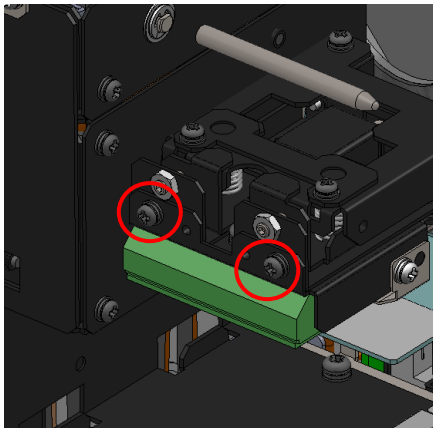


ribbon cassette

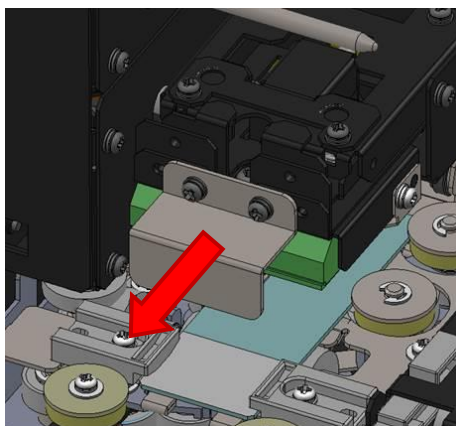
[7] -2 Disconnect the transfer unit

[7]-3 Unscrew two screws of head bracket.

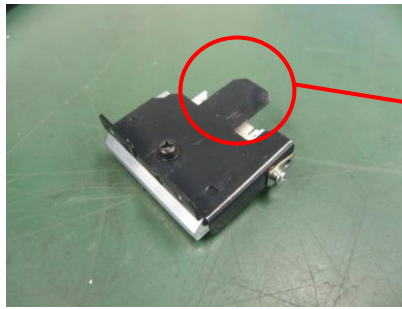
Attach the drawing bracket included with the head for replacement.



[7] -4 Pull out the head bracket forward.

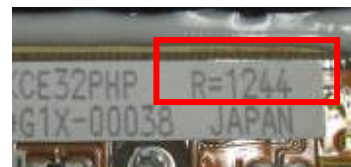


- [7]-5 Insert the head bracket straightly and surely along the upper surface of head unit. Secure two screws unscrewed in step (7)-3 to complete the replacement.



If the guide part of head bracket is displaced from insertion part of main unit, the connector will be damaged. Pay attention to it.

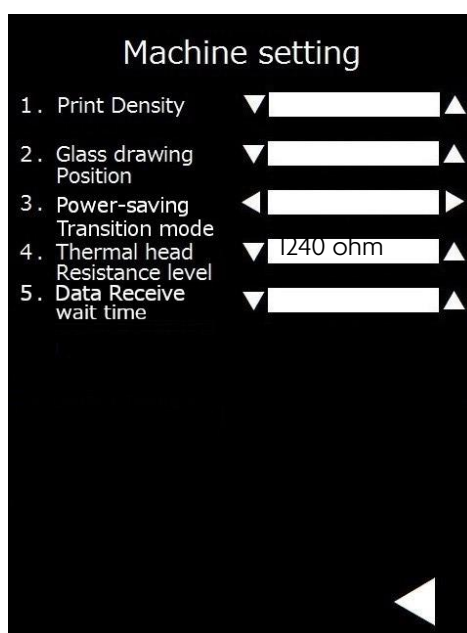
- [7]-6 At the replacement of head, be sure to check the head resistance value and adjust the setting before using the product.



**Example of setting**

*If R=1244, round off number to the tens place.*

*Therefore, the setting value becomes 1240.*



# Daily maintenance

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This printer requires daily maintenance to use it safely.

[Caution on cleaning]

Before cleaning, be sure to turn OFF the power supply of the printer.

At the cleaning, wipe off each part using a soft cloth such as waste cloth impregnated with dehydrated ethanol.

Frequent cleaning can ensure the good printing operation and the operation without failure or loss time.

Cleaning of thermal head (indication of cleaning: at the replacement of ribbon, at the breaking of ribbon)

---

Open upper cover and front cover.

Clean up the heating element of head with a waste cloth impregnated with dehydrated ethanol.



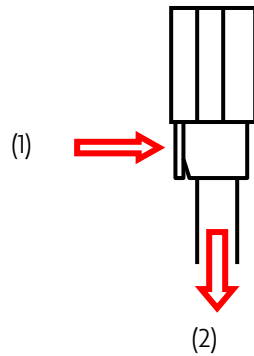
The heating element is at the tip.



Cleaning of platen roller (indication of cleaning: after the operation is terminated)

Open upper cover and front cover.

Disconnect the connector and pull out the transfer unit.



While the lock nail is pushed toward (1), pull out the connector downward (2).

Remove the taint attached to the platen roller using an air blow etc.

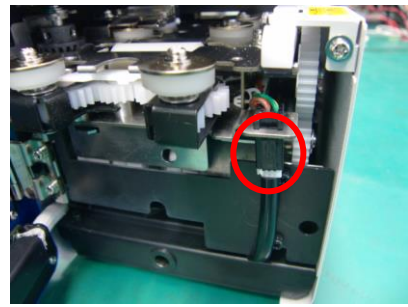
Clean up the whole circumference of platen roller while rotating it.

Air blow

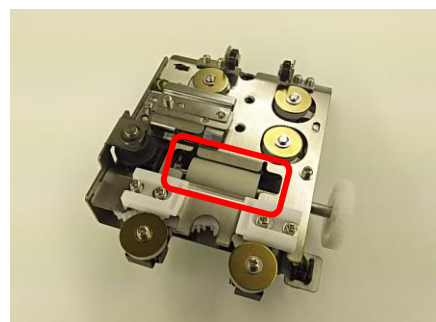
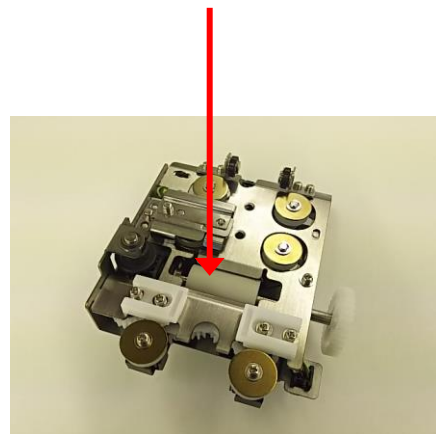


Clean up the platen roller using a waste cloth impregnated with dehydrated ethanol.

Clean up the whole circumference of platen roller while rotating it.



Platen roller



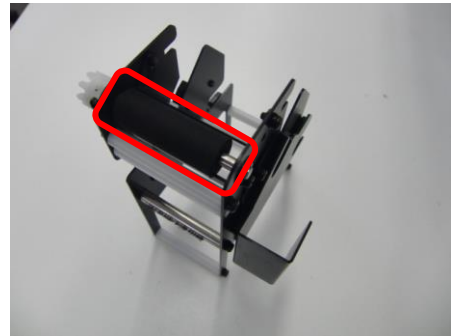


Cleaning of synchronized roller (indication of cleaning: at the replacement of ribbon)

Open upper cover and front cover.

Remove the ribbon cassette, and then remove the ink ribbon from the cassette.

Clean up the platen roller using a waste cloth impregnated with dehydrated ethanol.



Cleaning of dust tray (indication of cleaning: at the replacement of ribbon)

Remove the glass powder accumulated in the dust tray.



Dust tray

Discard the accumulated glass powder.



As the dust tray is push latch type, push it, and then pull it out.

# Printable Area

To provide our customers with consistent printing quality, this product is set with “printable area (area in which printing quality is assured).” Please note that printing failures outside this area cannot be compensated.

<< Continuous, single, front 1 operation >>

item		Remarks
A Maximum printing width	Frost width 25mm 23.0mm Frost width 26mm 24.0mm	
B Maximum printing length	Frost length 11.0mm 15mm Frost length 16.0mm 20mm Frost length 21.0mm 25mm	
C Area outside guarantee	1.0mm	
D Area where printing is not possible	2.0mm	

<< front 2 operation >>

item		Remarks
A Maximum printing width	Frost width 25mm 23.0mm Frost width 26mm 24.0mm	
B Maximum printing length	Frost length 9.0mm 15mm Frost length 14.0mm 20mm Frost length 19.0mm 25mm	
C Area outside guarantee	1.0mm	
D Area where printing is not possible	3.0mm	

# Cautions on use of printer driver

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1.This driver is GDI printer driver.

In case of output from WPF application or output of XPS file, the print quality may get deteriorated.

2. If barcode / 2D code image created on the application software is magnified at the printing, deterioration such as strain and thickening / thinning of image will be generated to cause reading failure. Do not magnify the barcode / 2D code you create once at the printing.

## Regarding the use of specified harmful substances

Indicated below about usage of specified harmful substances (6 substances)

○ : Maximum allowable concentration or less × :  
Maximum allowable concentration or more

	lead (Pb)	mercury (Hg)	cadmium (Cd)	hexavalent chromium (Cr6+)	polybrominated biphenyl (PBB)	polybrominated diphenyl ether (PBDE)
	Maximum allowable concentration 0.1wt% (1,000ppm)	Maximum allowable concentration 0.1wt% (1,000ppm)	Maximum allowable concentration 0.1wt% (1,000ppm)	Maximum allowable concentration 0.1wt% (1,000ppm)	Maximum allowable concentration 0.1wt% (1,000ppm)	Maximum allowable concentration 0.1wt% (1,000ppm)
Main unit	○	○	○	○	○	○
AC adapter	○	○	○	○	○	○
Power cable	○	○	○	○	○	○
Magazine (option)	○	○	○	○	○	○
Ribbon cassette	○	○	○	○	○	○
accompanying items	○	○	○	○	○	○
20-sheet stacker	○	○	○	○	○	○
50-sheet stacker(option)	○	○	○	○	○	○

Title		Revision history			
Revision history					
Rev. No.	Page	Date of establishment / revision	Content of revision	Review / approval	Creation
1	All pages	March 23, 2017	Newly established		
2	All pages	June 1, 2017	Full review		
3	P. 27 P. 28 All pages	July 6, 2017	Setting of interface is added Setting at barcode connection and restriction of digit number are added English and Japanese descriptions are changed fully		
4	All pages	August 5, 2017	Inserted photos are replaced		
5	P23~ P26	August 22, 2017	Modification of "Method for changing the setting mode"		
6	P33	September 28, 2017	Photo change of transfer unit		
7	P8 P18,19 P24,25 P27	December 4, 2017	Change of attached item Photo change of magazine LAN,WLAN setting screen change Change of MAC address confirmation method		
8	P25	December 14, 2017	Change machine setting screen Change item name on machine setting screen		
9	P2 P7 P24-P26	January 9, 2018	Added FCC Compliance Statement Added to "Cautions on safe use of this product" Type mistake correction		
10	P29~ P39	September 5, 2018	modification <b>【Troubleshooting】</b>		
11	P29 P30 P43	June 3, 2019	Modification <b>【Connection of barcode scanner】</b> Modification <b>【Troubleshooting】</b> Regarding the use of specified harmful substance		
12	P9、P12、 P14 P21、P26	September 26, 2019	Added * There are models that don't have wireless LAN.		
13	P16 P24 P26 P29	November 5, 2019	modification <b>【Reprint mode screen】</b> modification <b>【Copy Mode select】</b> Added <b>【5.Data Receive wait time】</b> Modification <b>【Connection of barcode scanner】</b>		

14	P29 P38	November 12, 2019	Modification <b>【Connection of barcode scanner】</b> Modification <b>【Machine Setting Screen】</b>		
15	P8 P16 P18 P42	March 30, 2020	Modification <b>【Ink ribbon photo】</b> Added <b>【Print position correction mode Added note】</b> Modification <b>【 ink ribbon setting method】</b> Added <b>【 printable area】</b>		



*ESPO PATH SLIDE PRINTER Instruction Manual*

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