

Starprint 2710 User's Manual

PRINTERS
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FOREWORD

We highly appreciate your purchasing our Digital Printer «KIP 2710» .

This USER'S MANUAL contains functional and operational explanation of the Digital Printer «KIP 2710» .

Read this USER'S MANUAL carefully before use, in order to fully understand this Digital Printer «KIP 2710» , and to use more efficiently.

Keep this USER'S MANUAL for future reference.

This equipment belongs in the First Class Information Equipment (Information Equipment which is used in the Commercial and Industrial Zone), and is in conformity with VCCI (Voluntary Control Council For Interference by Data Processing Equipment and Electronic Office Machines) which intends to prevent interference of electric wave.

Since this equipment is used in or adjacent to the residential area, it may interfere in receivers of radio or TV, use this equipment properly conform to this USER'S MANUAL.

- Do not install Machine around electronics equipment or precision instruments. It may be influenced by electrical reason or vibration while printing.
- If Machine is installed near electronics equipment, such as TV or radio, interference to equipment, such as noise or flickering may be occurred. Use separate power line and install Machine as far as such equipments.

WARNING FOR THE SAFETY (OBSERVE THESE WARNING)

Following warnings are very important to use this equipment safely and to prevent any danger for the operator and damage for property.

- Hazardous or damage degree are classified and shown as follows when this machine is erroneously used ignoring this USER'S MANUAL.



WARNING

This caution mark denotes that the failure to follow given instructions in handling the machine could result in a death or serious injury.



CAUTION

This caution mark denotes that the failure to follow given instructions in handling the machine could result in an injury or physical damage only.



This symbol signifies what must not be done.



This symbol signifies General Mandatory Action.



WARNING



- Connect Grounding Wire to Ground surely in order to avoid electrical shock or at the time of lightning. If Grounding Wire is not connected to the Ground Terminal of Outlet, call the vendor or service professional for the installation.



- Power source should be rated voltage $\pm 10\%$, 15A more than capacity.
- Preferably the power circuit that is provided with a dedicated breaker should be used.
- Install the machine as closest possible to where the outlet is.



- Do not remove screws and covers unless specified in the instruction. The machine has hot and high-voltage live parts in it, which might cause a burn or electric shock.
- Do not disassemble or tamper which results in fire or electric shock.



- Do not use a multi-wiring connector that might raise the temperature of outlet abnormally and start a fire.



- Do not throw waste toner (including toner) or toner residual bottle in a fire. Toner is ignited and can be caused a burn. When waste toner (including toner) or toner residual bottle is discarded, follow a service person's or a vendor's instructions, and dispose properly.



- Do not place a flower vase, a flowerpot, a water-filled glass on top of the machine. Split water could cause a fire or electric shock.
- Should the machine in use develop an abnormality, such as abnormal smell or noise, set main switch to OFF immediately, unplug the power cable.



- Do not place anything heavy on the power cord. A short circuit or a fire could result.
- Do not step on or damage the power cord. A short circuit or a fire could result.



CAUTION



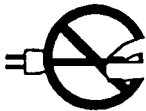
- Do not install the machine at any of the places described below.
 - Places exposed by direct Sun ray.
 - High humidity or dusty place.
 - Places where floor or base is unstable.
- When the machine is fallen, it causes the injury.



- There are high temperature area inside of Machine, so that do not touch any place unless it is prescribed in the instruction when paper jam treatment is done, or may result in burning.



- Unplug the power cord when the machine is relocated, or power cord is damaged and a fire or electric shock might be suffered.
- For safety's sake, unplug the power cord when the machine will not be used for long due to a holiday or for any other reason.



- When disconnecting the power cord, be sure to hold its plug, or power cord is damaged and a fire or electric shock might be suffered.



- When the machine is continuously used for a long time in a small room, ventilation of room is recommended.

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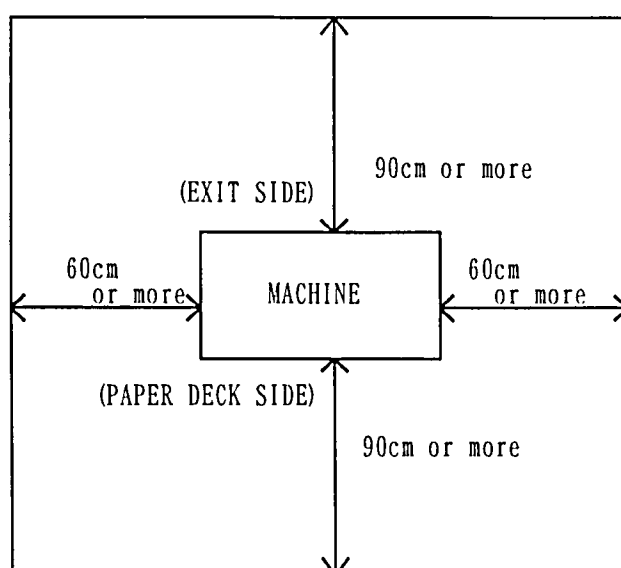
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INSTALLATION

Selection of Installation Place

Followings are the conditions for installation.

- ❗ ■ Use an outlet alone of $100V \pm 10\%$, $120V \pm 10\%$, $220 \sim 240V \pm 10\%$, 15A or more in capacity with Grounding terminal.
(User's are advised to use the correct voltage at his own risk to avoid any circumstances.)
- ⚡ ■ Grounding
 - 1) Connect Grounding Wire to Ground surely.
 - 2) Install the machine as closest possible to where the outlet is.
- Temperature should be $15 \sim 30^{\circ}\text{C}$, humidity should be $20 \sim 80\%$.
Avoid the places near Water Cock, Water Boiler, Humidifier, or Refrigerator.
- ⊘ ■ Avoid the places such as near fire, dusty, generating Ammonium gas and exposed by direct Sun ray.
If the direct Sun ray is not avoidable, provision of curtain or shade is recommended.
Confirm that the Photoconductive Drum is not exposed by direct Sun ray or strong light when the Developer Unit is removed or installed.
- ❗ ■ Ventilation must be good.
Ozone is generated while copying machine is used, but its amount is the level that does not influence to human body. However, when the machine is used for a long time in bad ventilation room, smell of Ozone may be sensed, so that ventilation of room is recommended in order to keep comfortable work environment.
- The levellers of the printer should be touched on the floor evenly.
The printer should be kept horizontally.
- Keep the space 60cm or more from wall, enough room for operation.
- Floor should be enough strong against the weight of the machine.



ORIGINAL OF COPY (PROHIBITION)

It is not always allowed to copy from any kind of original.
Especially just possession the copy of certain kind can be punished by law.
We recommend you to consider enough before you take a copy of it.

1) Prohibited Items by law

- It is not allowed to take any copy of Currency (Bill, Money, Bank Note, etc.), Government issued Negotiable Instruments (National Bonds, Security, Local Debt Bonds, etc.).
- It is not allowed to take any copy of Foreign Currency or Foreign Negotiable Instruments, either.
- It is not allowed to copy unused postal stamps or government postcards, without permission of replica from Government,
- It is not also allowed to copy Government issued revenue stamps, certificate stamps which are prescribed by Liquor Tax Act or the Commodity Tax Act.

2) Special Items to care

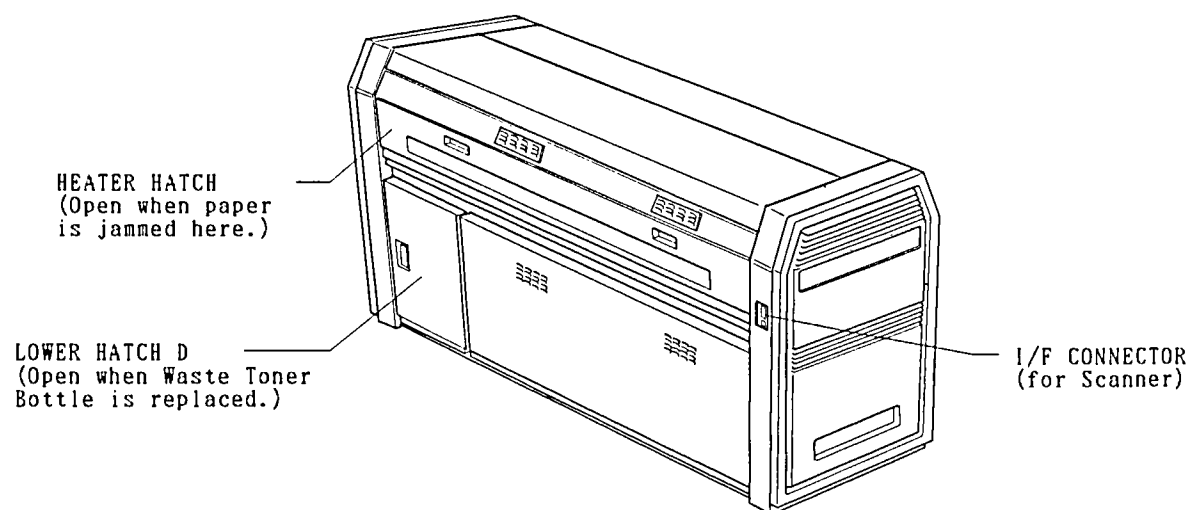
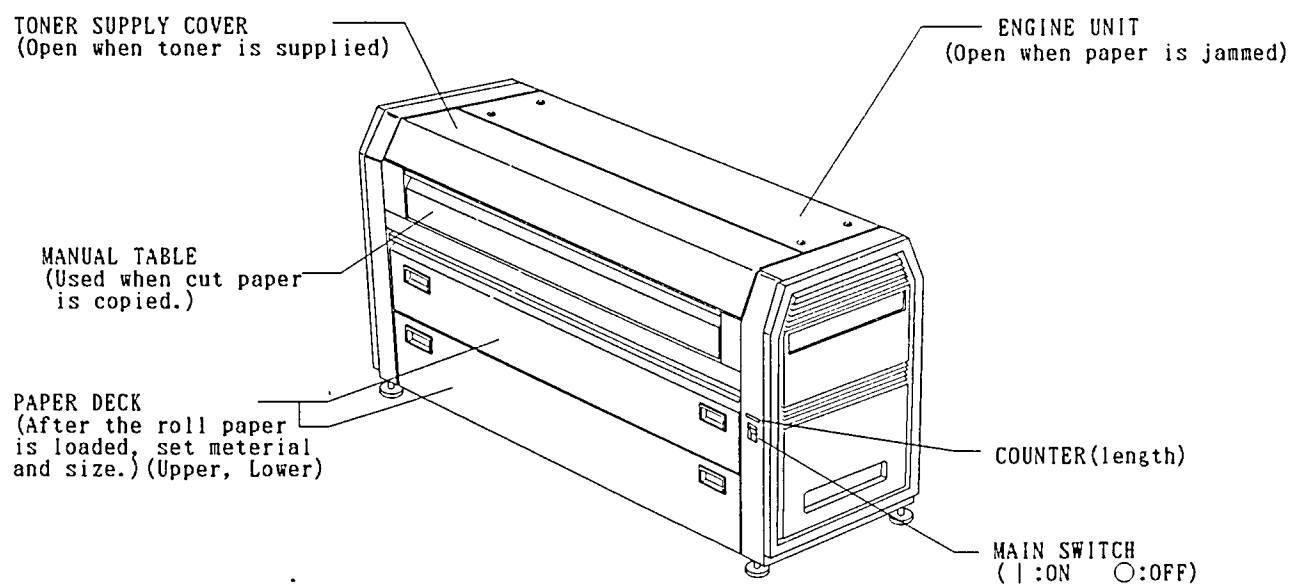
- Private issued securities (stock certificate, draft, check, goods ticket, etc.) commutation ticket or book of tickets are warned to copy by the government instruction, except company uses minimum required copies for their own business.
- We suggest not to make copies freely such as government issued passport, public or private issued licenses, automobile inspection certification, IDs, tickets like pass or meal.

Reference Law	Prohibited items to copy
1. Regulations to control fake currency and bond.	Currency (Bill, Money, Bank Note, etc.) Government issued Nego. Instruments (National Bonds, Security, Local Debt Bonds, etc.)
2. Control Law against Forged & faked Foreign Currency, Bill, Bank Note and Bond.	Foreign Currency or Foreign Negotiable Instruments.
3. Forged postal stamps control law	Unused postal stamps or government postcards
4. Forged revenue stamps control law	Government issued revenue stamps and cert. stamps prescribed by Liq. or Comm. Tax Act.
5. Currency similarity securities Control Law	Private issued securities (stock, draft, check, goods ticket), commutation or book tickets.

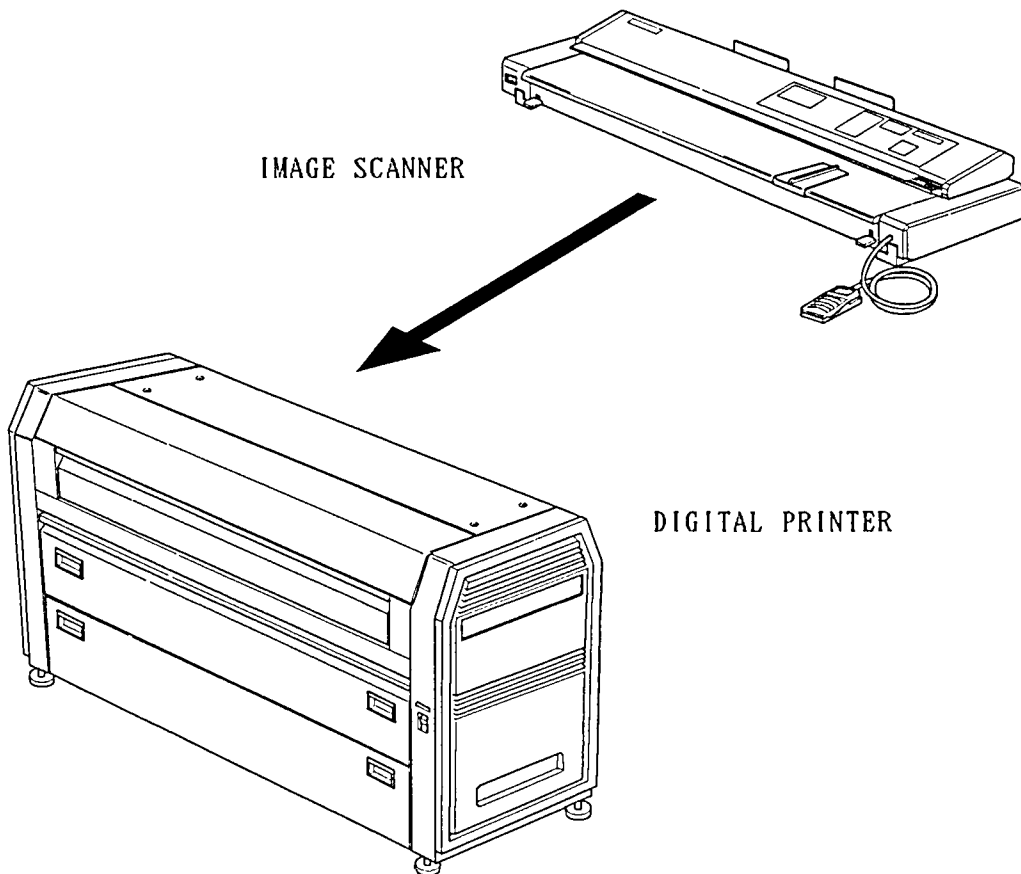
3) Copyright protected items

Copyright protected materials are prohibited to take copies except personnel or family use or similar purpose, such as book, music, paintings, printed copy, maps, drawings, movie and pictures.

PARTS NAME, FUNCTION



This Digital Printer KIP2710 (K-48)
is used with Image Scanner 2021 (K-49).



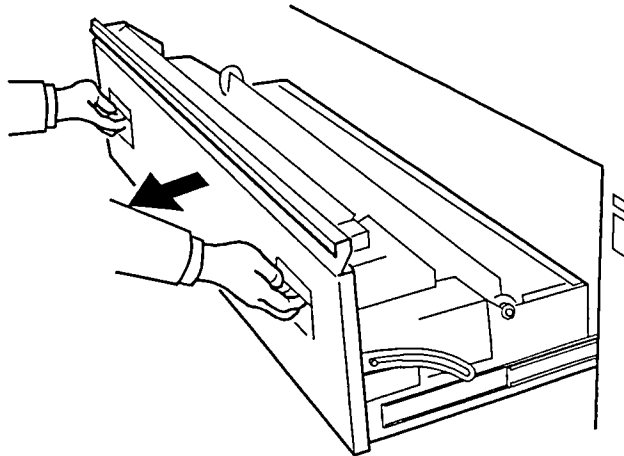
OPERATION

Setting of Roll Paper

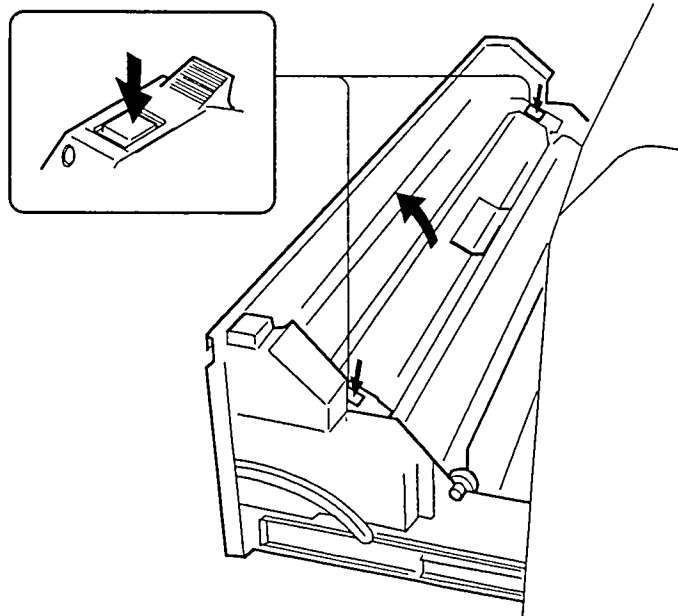
Two Roll Decks are prepared, Upper(A roll) and Lower(B roll).

Setting of Upper Deck(A roll).

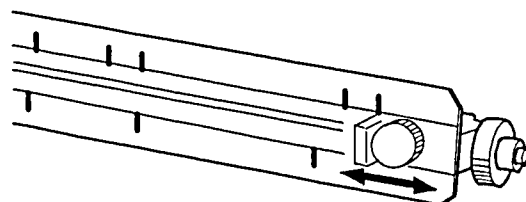
- 1) Keep pushing latches inside of both handles upward, pull Upper Deck out.



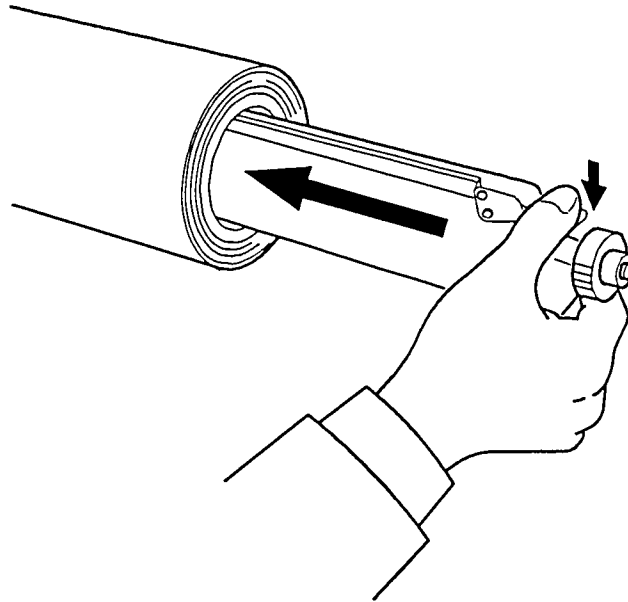
- 2) When green buttons on
Pick Up Case opens upward.



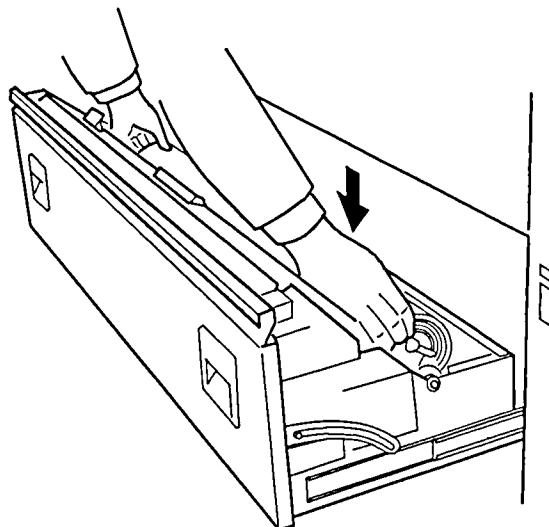
- 3) Pick up Roll Paper Spool, adjust the stopper
to desired roll paper width.
(Loosen thumb screw, and slide it.)



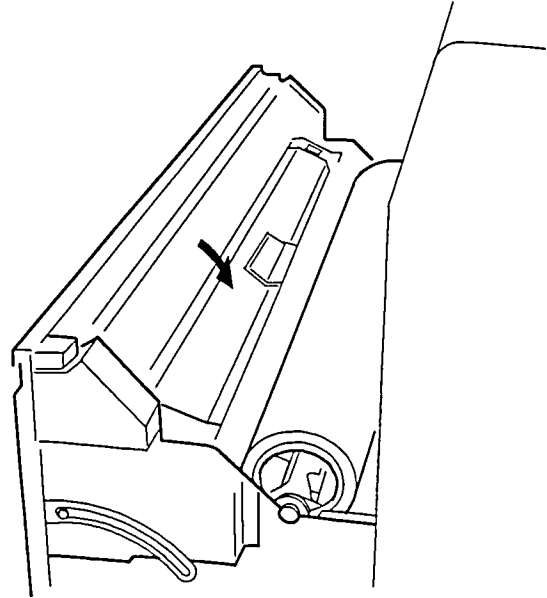
- 4) Insert spool into the roll from right side
(holding the lever and insert it)
until the right edge of roll touches to
the stopper.



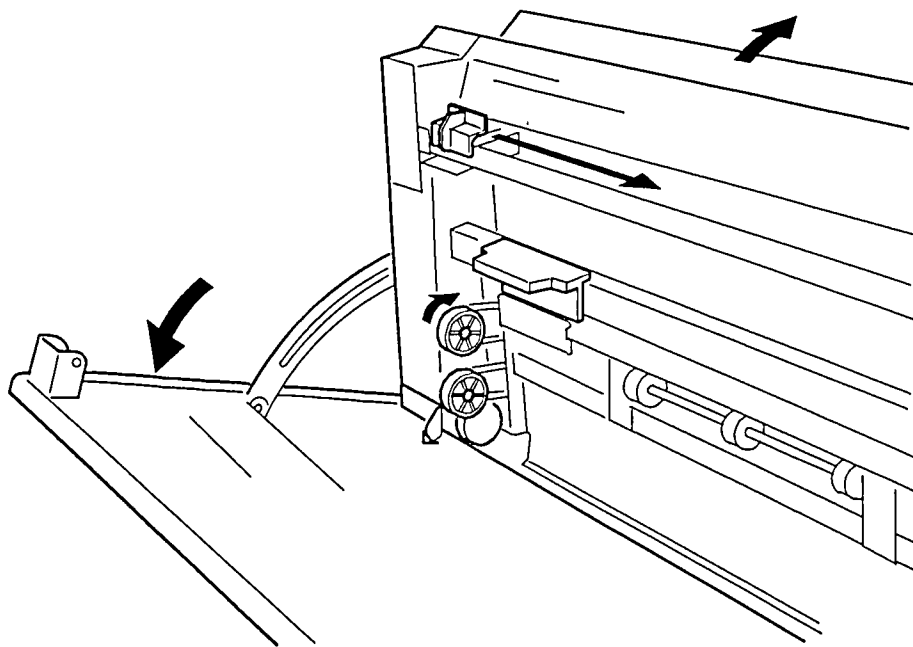
- 5) Set the roll paper with spool into the Deck.



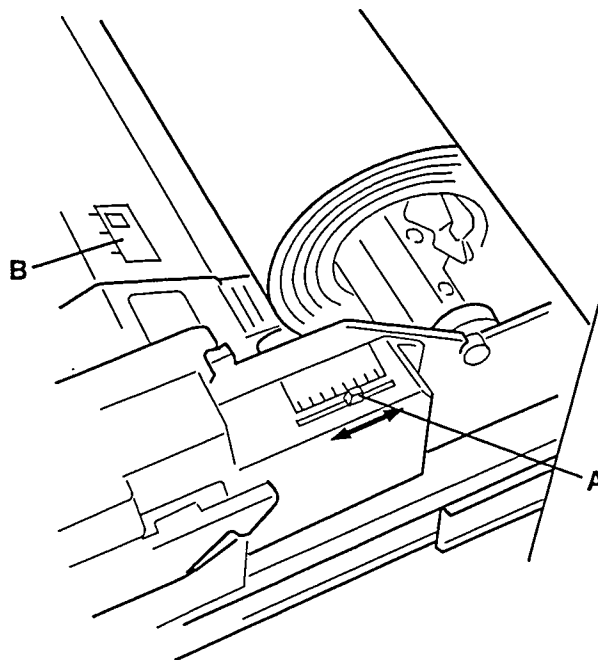
- 6) Put the leading edge of roll paper on Pick Up Roller, close Pick Up Case. (Hold the slackening part of roll paper from behind with one hand, close the Pick Up Case with the other hand. When the roll paper is heavily curled, easier way is keep pushing both ends of leading edge with index fingers first, then close Pick Up Case with thumbs.)



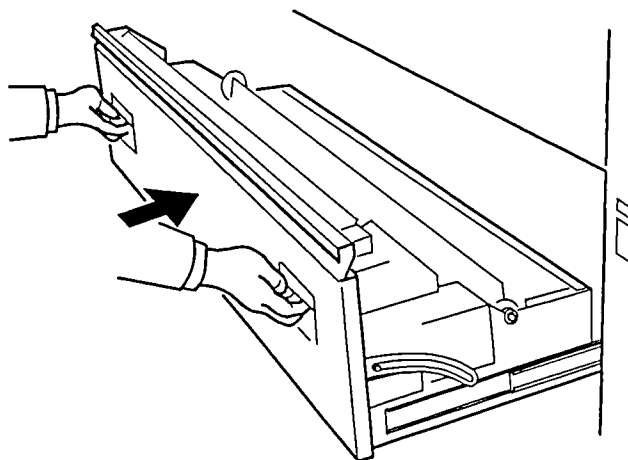
- 7) Lift up both Latches of Upper Deck Front Cover, open the Front Cover.
8) Turn upper green knob of left side clockwise, the leading edge of installed roll paper is fed and appears from the front top of the Deck. When it appears approx. 10cm, move green Cutter Knob (when it stays on left side, fully right; when right side, fully left), and remove the cut slip.



- 9) Adjust the Paper Size Selector (A) to the installed roll width.
And adjust the Media Selection Switch (B).

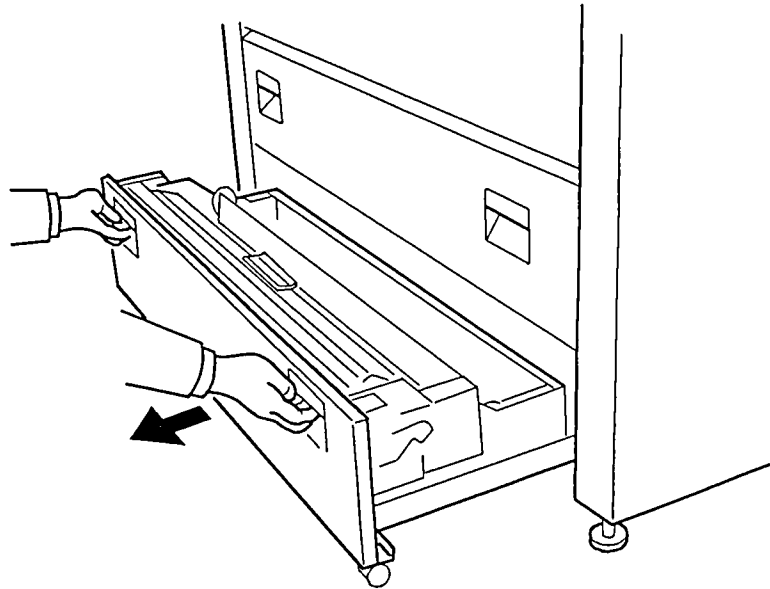


- 10) Close the Front Cover, and push the Upper Deck in.

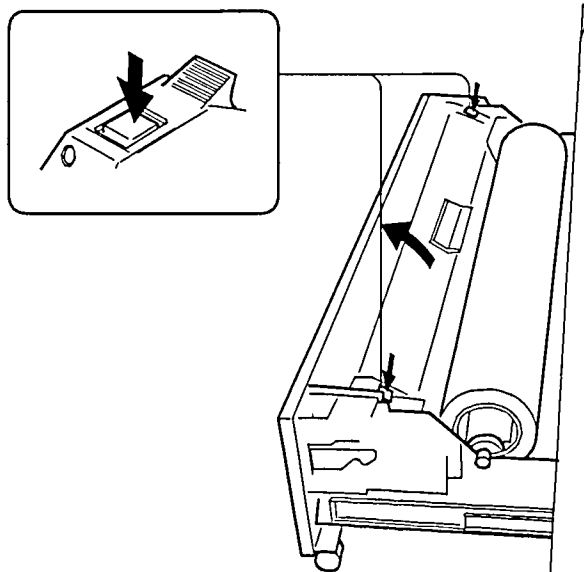


Setting of Lower Deck(B Roll).

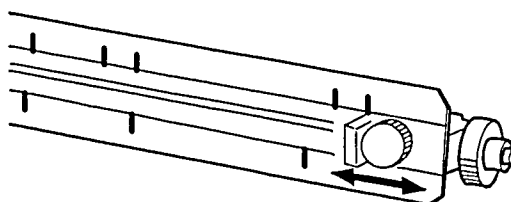
- 1) Keep pushing latches inside of both handles upward, pull Lower Deck out.



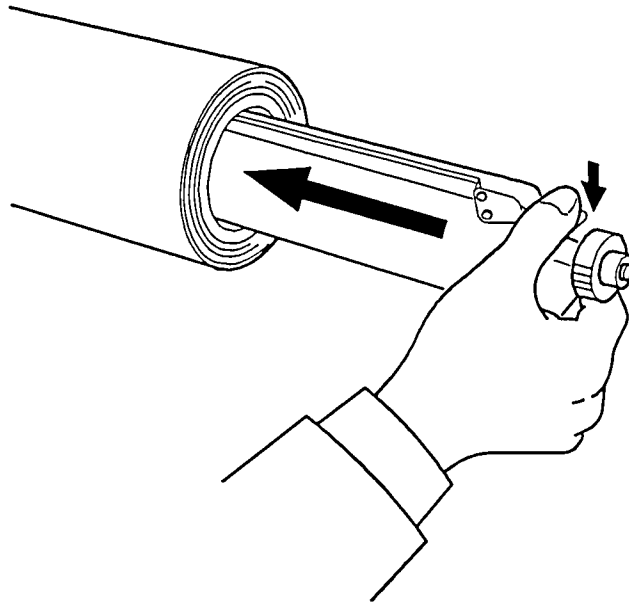
- 2) When green buttons on Pick Up Case are pushed, Pick Up Case opens upward.



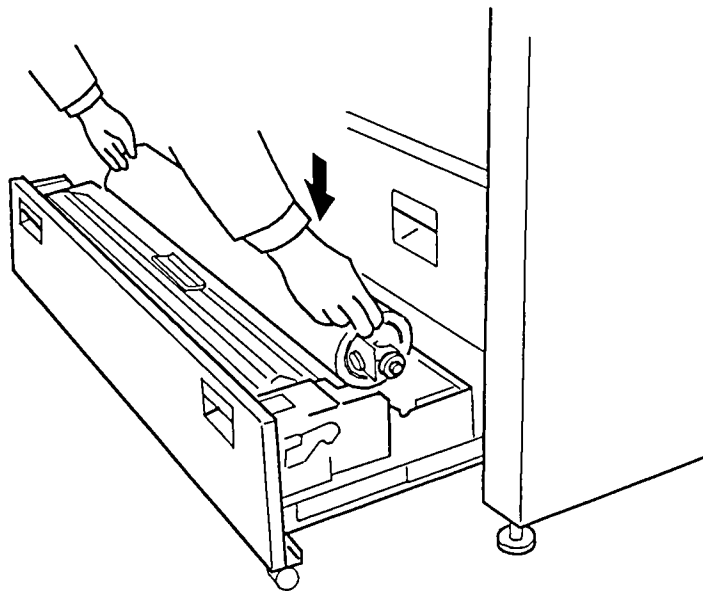
- 3) Pick up Roll Paper Spool, adjust the stopper to desired roll paper width.
(Loosen thumb screw, and slide it.)



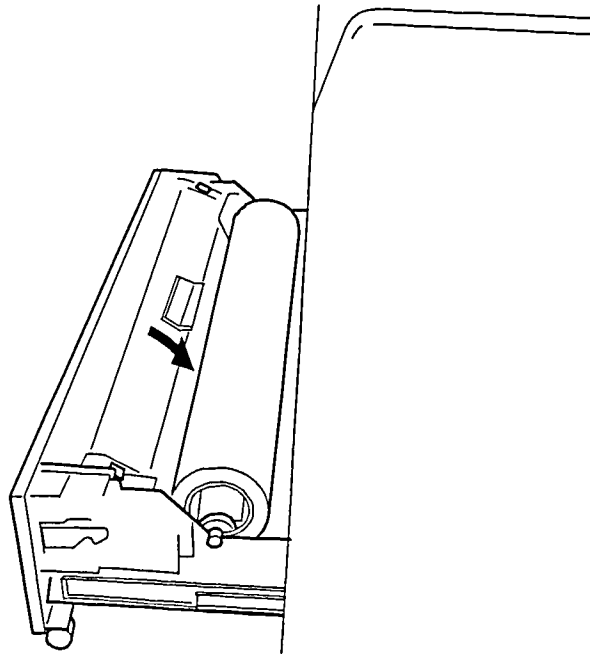
- 4) Insert spool into the roll from right side
(holding the lever and insert it)
until the right edge of roll touches to
the stopper.



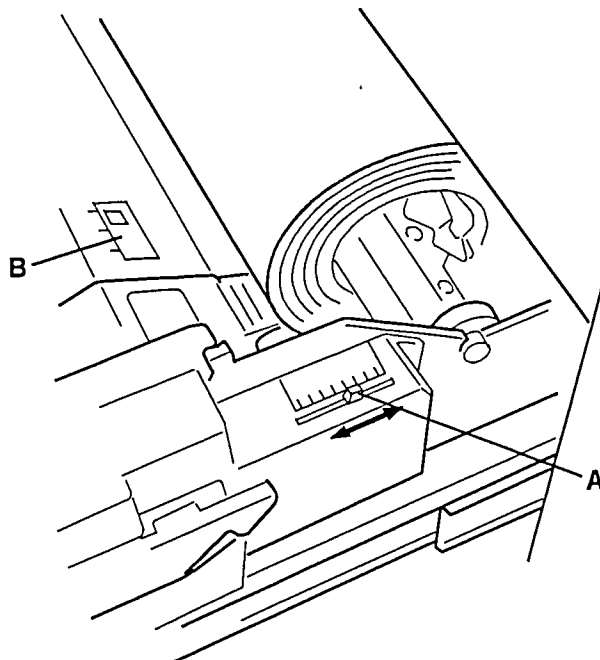
- 5) Set the roll paper with spool into the Deck.



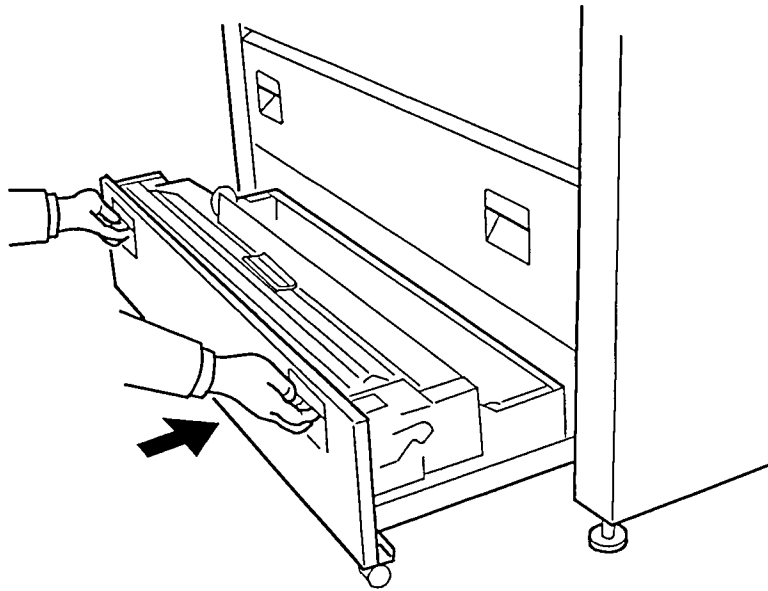
- 6) Put the leading edge of roll paper on Pick Up Roller, close Pick Up Case.
(Hold the slackening part of roll paper from behind with one hand, close the Pick Up Case with the other hand.
When the roll paper is heavily curled, easier way is keep pushing both ends of leading edge with index fingers first, then close Pick Up Case with thumbs.)



- 7) Adjust the Paper Size Selector (A) to the installed roll width.
And adjust the Media Selection Switch (B).

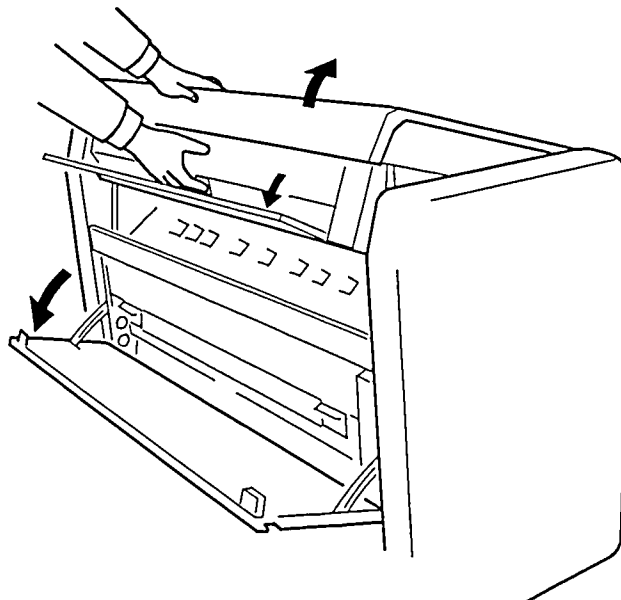


8) Push the Lower Deck in.

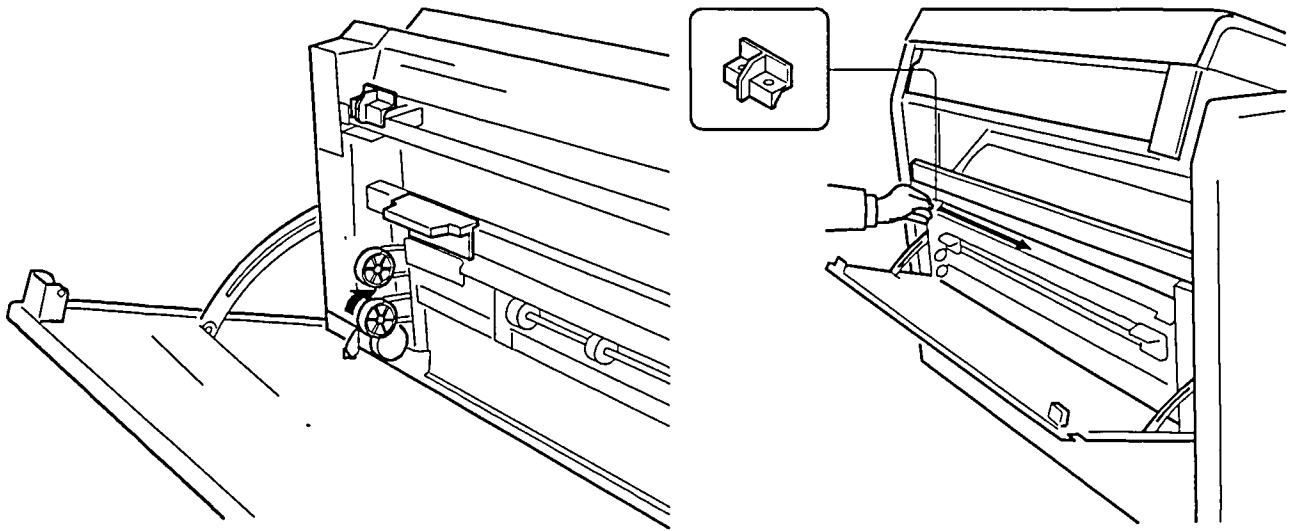


9) Open the Manual Table, pull inside Latch toward you, then Engine Unit opens upward. Close the Manual Table.

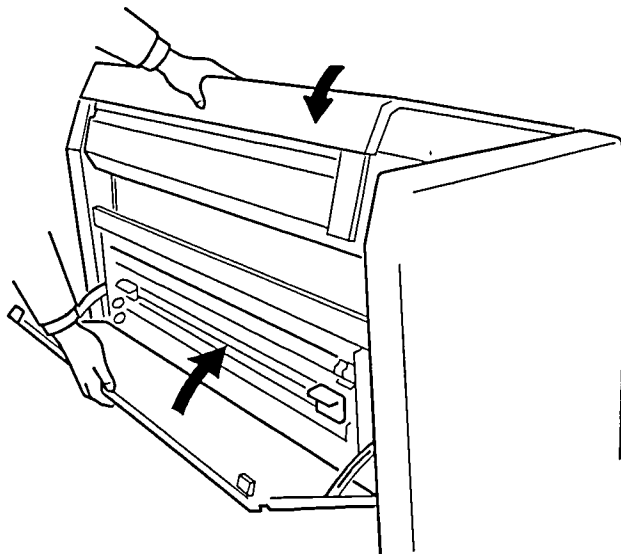
10) Lift up both Latches of Upper Deck Front Cover, open the Front Cover.



- 11) Turn lower green knob of left side clockwise, the leading edge of installed roll paper of Lower Deck is fed through Upper Deck and appears from the front bottom of the Engine Unit.
When it appears approx. 20cm, move green Cutter Knob (when it stays on left side, fully right; when right side, fully left), and remove the cut slip.



- 12) Close the Front Cover, then close the Engine Unit.



Note; ROLL END of KIP2710

KIP2710 detects actual end of Roll Paper, and indicates 'R,E' as ROLL END.
Two cases of 'R,E' such as 'end of paper is taped on the core' or 'not' are explained separately as follows.

1. In case of end of paper is taped on the core.

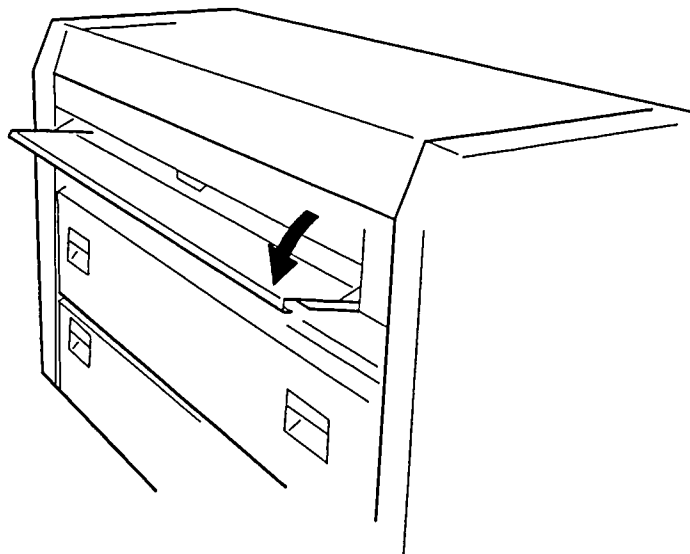
- 1-1A When Upper Deck is selected, and paper remains 215mm~393mm;
- 1-1B When Lower Deck is selected, and paper remains 404mm~582mm;
after the ROLL END is detected, the remained paper is rewound on core, and 'R,E' is indicated.
Install a new Roll Paper.
- 1-2A When Upper Deck is selected, and paper remains 394mm~selected length+214mm;
- 1-2B When Lower Deck is selected, and paper remains 583mm~selected length+403mm;
'R,E' is detected while printing. When 'R,E' is detected, the cutter operates.
Short-cut print is ejected through heater, and remained paper is rewound on core,
then 'R,E' is indicated.
Dispose the odd short-cut print, and install a new Roll Paper.

2. In case of end of paper is not taped on the core.

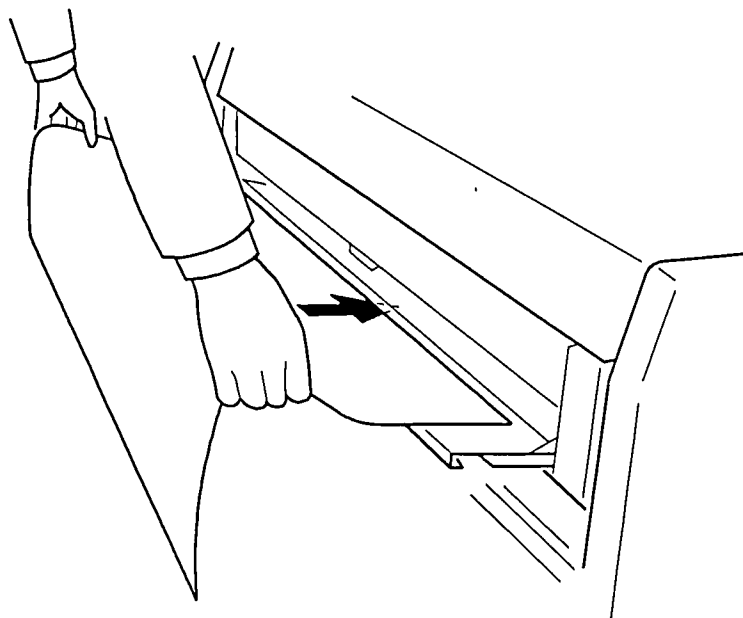
- 2-1A When Upper Deck is selected, and paper remains 113mm~291mm;
- 2-1B When Lower Deck is selected, and paper remains 307mm~485mm;
after the ROLL END is detected, paper is fed until the leading edge appears on the top of the cutter, then 'R,E' is indicated. Open Front Door of Upper Deck and Engine Unit, remove the remained paper in the Deck by turning green knob up to the top of Cutter. Then install a new Roll Paper.
- 2-2A When Upper Deck is selected, and paper remains 292mm~selected length+112mm;
- 2-2B When Lower Deck is selected, and paper remains 486mm~selected length+306mm;
ROLL END is detected while printing.
Short-cut print or extra-long print is ejected through heater. Dispose the ejected print and install a new Roll Paper.

Setting of Cut Paper

- 1) Set the Controller to the Cut Paper Mode.
- 2) Open the Manual Table.



- 3) Insert the selected size paper along the Guide Mark on the Manual Table slowly until the leading edge hits the internal roller.
- 4) In a second or two, the internal roller starts rotation, the paper is fed up to the prescribed position.

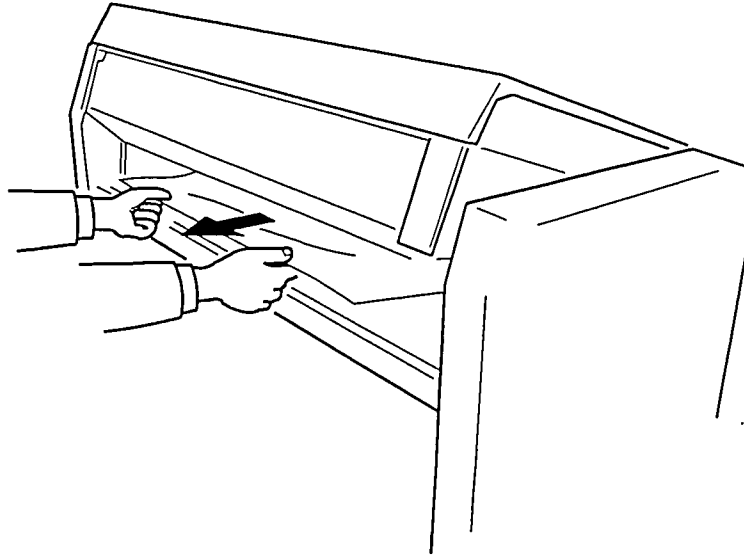


Jam Handling

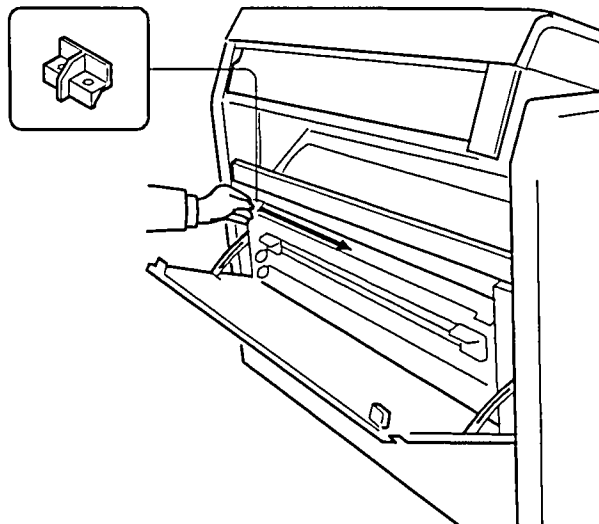
Jam Handling in front

- 1) Open the Manual Table.
- 2) Pull the Latch toward you and open the Engine Unit.
- 3) Pull the jammed paper out toward you.

Note: Be careful not to touch the Photoconductive Drum in the middle of the machine.

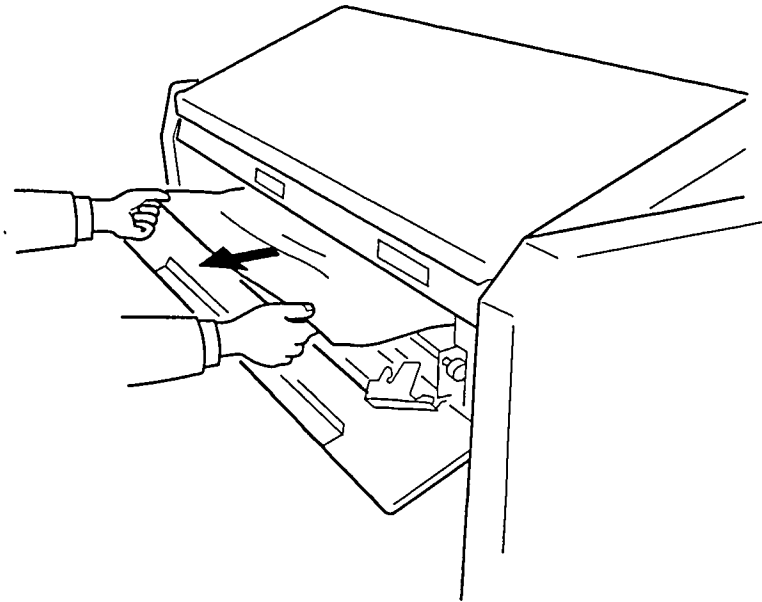


Note: When the roll is not cut, open the Front Cover, cut the roll by moving knob, then handle the jammed paper.

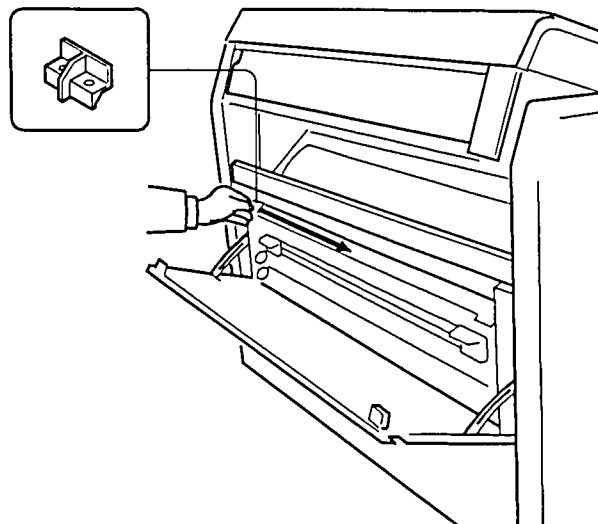


Jam Handling at the exit

- 1) Open the Manual Table.
 - 2) Pull the Latch toward you and open the Engine Unit.
 - 3) Open the Heater Hatch.
 - 4) Hold the green handle and open the exit area.
 - 5) Pull the jammed paper out toward you.
- Note: Beware of the pointed end of the Stripper Nail.
Beware of the hot surface around the Fuser Unit.

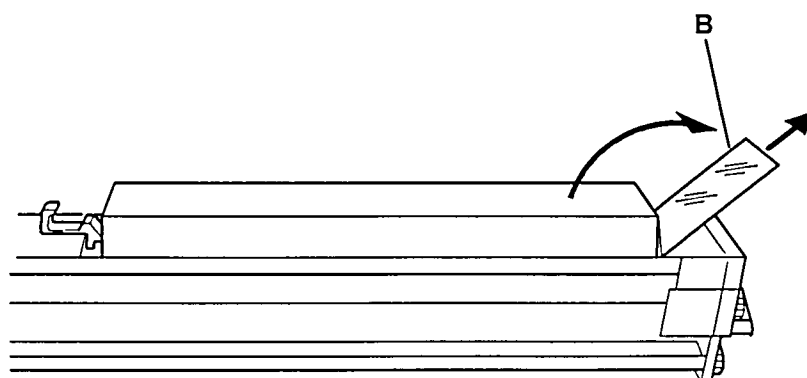
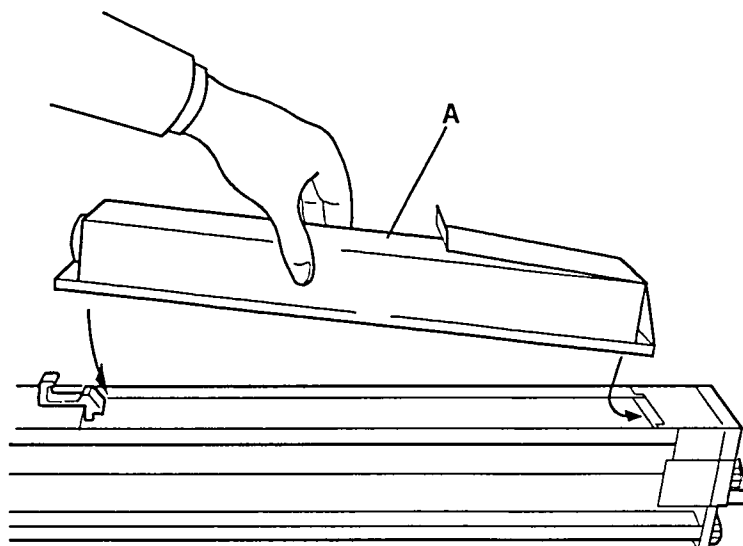


Note: When the roll is not cut, open the Front Cover, cut the roll by moving knob, then handle the jammed paper.



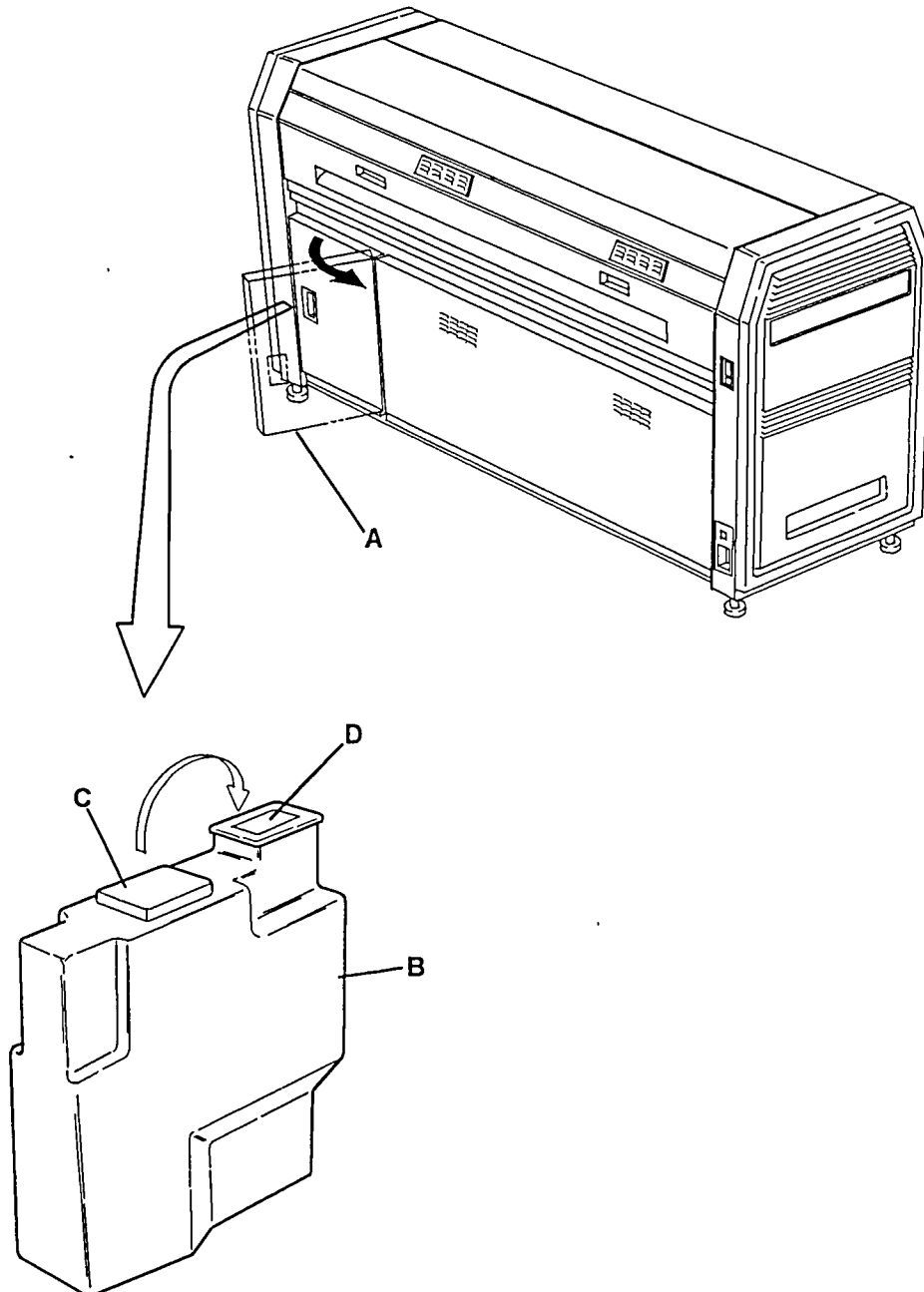
Add Toner

- 1) Shake Toner Cartridge (A) fully before set.
- 2) Insert one end of Toner Cartridge into Hook, set the other end to Nail Lever.
- 3) Peel Film(B) from the face of Toner Cartridge, and pull it out upward at a slant as shown figure.



Replacement of Waste Toner Bottle

- 1) Put your hand on the Handle, open the Waste Toner Bottle Hatch (A).
- 2) Pull the Waste Toner Bottle (B) out from the position.
- 3) Close the opening (D) using the Cap (C) of the Waste Toner Bottle.
- 4) Set a new Waste Toner Bottle in position.



SPECIFICATIONS

1. Type
 - Printer : Console Type
 - Photoconductor : O P C Drum
2. Method
 - Copying System : Indirect Electrostatic Transfer System
 - Charging : Corona Charger (-)
 - Exposure : L E D Plot Head
 - Developing System : Dry, two-component system
 - Paper Feeding System : Automatic (2 Decks), Manual Feed
 - Transfer System : Corona Charger (+)
 - Separation System : Electrostatic Separation, Separation Nail
 - Cleaning System : Blade, Counter
 - Fusing System : Heat Roll Pressure System
3. Function
 - Resolution : 4 0 0 D P I
 - Warm-Up Time : 1 2 min. or less
 - First Print Time : 4 8 sec. / A 0 (Upper Deck)
 - Print Size : A 4 ~ A 0
 - min. width 2 1 0 mm
 - max. width 9 4 1 mm
 - min. length 2 1 0 mm
 - max. length 6 0 0 0 mm
 - Operation Environment : Temperature 1 5 °C ~ 3 0 °C
 - : Humidity 2 0 °C ~ 8 0 °C
 - : Air Pressure 0. 8 ~ 1. 0 atmospheric pressure
 - Power Source : 100V±10%, 120V±10%, 220~240V±10%
 - Power Consumption : max. 1 2 7 0 W
 - Acoustic Noise : 6 0 dB or less (while printing)
 - : 5 5 dB or less (stand-by)
 - : (1 m from machine)
 - Ozone : 0. 1 p p m or less
 - Measurement : Width 1 3 7 0 mm
 - : Depth 5 1 0 mm
 - : Height 8 8 5 mm
 - Gross Weight : Approx. 2 0 1 K g
 - Consumption : When Roll Paper, Cut Paper or other media are stored,
 - : close the package to avoid high humidity.
 - : Toner Avoid the direct Sun ray, keep it 35~85%.