

KIP



KIP 3100 User Guide

Thank you for purchasing the KIP 3100 Multi-Function Printer.

This USER'S MANUAL contains functional and operational explanations for the KIP 3100. Please read this USER'S MANUAL carefully before using the Printer. Please keep this USER'S MANUAL for future reference.

1. When this product is installed in North America.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. When this product is installed in Europe

This equipment complies with the requirements in Pub.22 of CISPR Rules for a Class B computing device.

Operation of this equipment in a residential area may cause unacceptable interference to radio and TV reception requiring the operator to take whatever steps are necessary to correct the interference.

Do not install Machine around other electronic equipment or other precision instruments. Other devices may be affected by electrical noise during operation.

If the Machine is installed near other electronic equipment, such as a TV or a radio, interference to said equipment, such as noise or flickering, may occur. Use a separate power line and install the PRINTER as far as possible from said equipment.

As an ENERGY STAR® Partner, Katsuragawa Electric Co., Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



The International ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the penetration of energy efficient computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, monitors, printers, facsimiles, copiers, scanners, and multifunction devices. Their standards and logos are uniform among participating nations.

The symbol shown indicates that this product conforms to Directive 2002/96/EC of the European Parliament and the council of 27 January 2003 on waste electrical and electronic equipment (WEEE) and does not apply to countries outside of EU.



Only For EU Member States

The symbol shown indicates that this product conforms to SJ/T11364-2006 of People's Republic of China Electronic Industry Standard and does not apply to countries outside of People's Republic of China.



The symbol shown indicates that this product conforms to GB 18455-2001 11364-2006 of National Standard of the People's Republic of China and does not apply to countries outside of People's Republic of China.



Safety Warnings

The following warnings are very important in order to safely use this product. These notes are important in preventing danger to the operator or operation of the printer.

The following symbols are found throughout the USER'S Manual and have the following meaning:



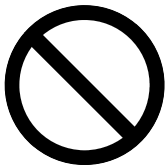
WARNING

This WARNING mark means that there is a possibility of death or serious injury if you ignore or do not follow the said instruction.



CAUTION

This CAUTION mark means that there is a possibility of injury or physical damage if you ignore or do not follow the said instruction.



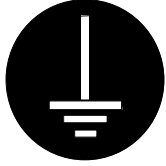
When marked with this symbol, "DO NOT ATTEMPT"



When marked with this symbol, "pay close attention to"



WARNING



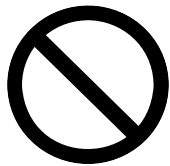
Ground the product with a correct ground source or you may be electrically shocked.



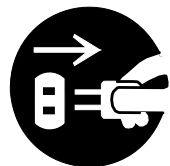
1. The Power source should be as follows:
In U.S.A. : 120V plus/minus10%, 50/60Hz, 15A or higher
In Europe : 220-240V plus6% or minus10%, 50/60Hz, 10A or higher
2. Use a circuit with a dedicated breaker.
3. Install the product as close to the wall outlet as possible.
4. If you wish to move the printer, please contact your service personnel.



1. Do not remove the screw and do not open the cover if not instructed to do so in this User's Manual. If you ignore this warning, you may be burnt or receive an electric shock due to a hot item or electrically charged part inside of the printer.
2. Do not disassemble or tamper with the printer. It may result in a fire or an electrical shock.



1. Do not plug in the printer into a multi-wire connector in which some other equipment is plugged into. It may cause a fire due to outlet overheating.
2. Do not damage the Power Cord by stepping on or placing heavy items on it. If the Power Cord is damaged, it may cause a fire or you may receive an electric shock. **REPLACE THE CORD IF DAMAGED!**



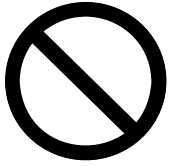
1. Do not put a flower vase, a flowerpot or any water-filled item on the product. Spilt water could cause a fire or an electric shock.
2. If the product generates an abnormal smell or noise, turn it off and unplug it from the wall electrical outlet immediately.



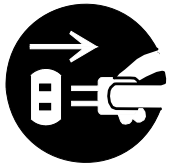
Do not throw the toner into a fire or other sources of heat, as it can explode.



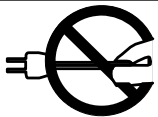
CAUTION



Do not install the printer in a humidified room or a dusty room.
Also, do not install the printer on an unstable floor as injuries may occur.



1. Unplug the printer before you move it.
The power cord may be damaged and it may result in a fire or electric shock.
2. If you do not use the printer for a long duration (holidays, company shutdown) turn off and unplug the printer from the outlet for safety.



Do not pull the cord when you unplug the printer as you may damage the Power Cord.



There are hot items inside of the printer.
Take great care not to touch these items when you remove mis-fed media.



Ventilate the room well if you print in a small area.

Chapter 1

Before Use

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1.1 Installation Requirements

The following conditions are required for installation of the equipment.



1. Power source should be rated as follows.
In U.S.A. : 120V plus/minus 10%, 50/60Hz, 15A or higher
In Europe : 220-240V plus/minus 10%, 50/60Hz, 10A or higher
2. The equipment must be on an exclusive circuit.
3. The outlet must be near the equipment and easily accessible.



1. Make sure to connect this equipment to a grounded outlet.
2. For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible.

The site temperature range = 10 to 32 degrees Centigrade, with the humidity between 15% to 85% RH. (NON CONDENSING)

Keep the printer away from water sources, boilers, humidifiers or refrigerators.



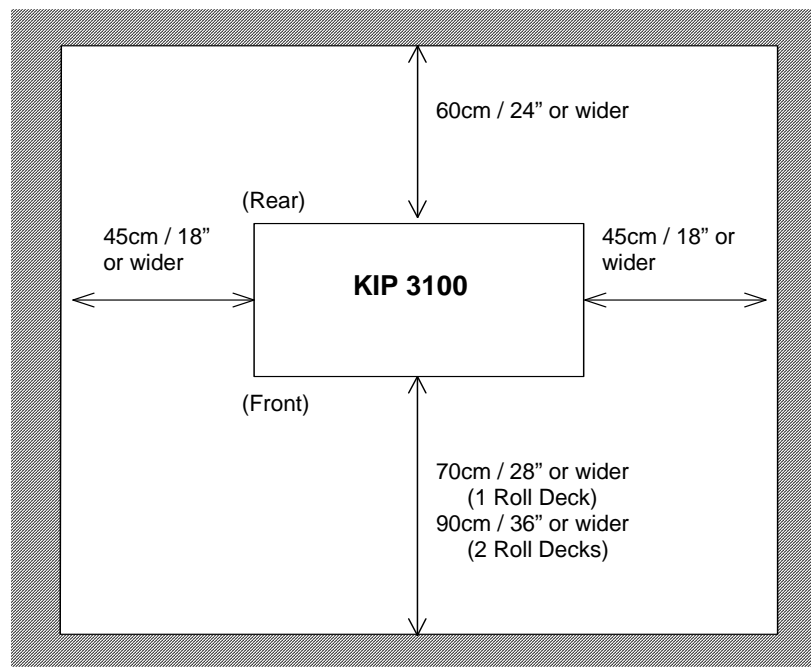
1. The installation site must not have open flames, dust or ammonia gases.
2. The equipment must not be exposed to the air vents from air conditioners. It may affect the image quality.
3. The equipment should not be exposed to the direct sunlight. Please draw curtains to block any sunlight. When you open the Movable Unit, do not expose the Photoconductive Drum to strong (intense) light as this will damage the Drum.



Ozone will be generated while this equipment is use, although the quantity generated is within safe levels. (see certifications)
Ventilate the room, if required.

Keep ample room around the equipment to ensure comfortable operation. (Refer to the following figure.)

The equipment must be leveled and the floor strength must be ample to sustain the weight of the equipment.



1.2 Originals Prohibited from Duplication

It is not necessarily allowed to copy every kind of original.

You may be punished by the law if only you possess the copy of some kind of original.

We recommend you to consider enough before you copy such original.

[Originals prohibited from copying by the law]

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

[Special items to be cared]

1. It is warned by the government to copy private issued securities (stock certificate, draft, check, goods ticket, etc.), commutation ticket or book of tickets, excluding that some specific company copies such originals as many as it requires for its own business.
2. We recommend you not to copy freely such originals as government issued passport, public or private issued licenses, automobile inspection certification, IDs and tickets like pass or meal.

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

[Originals protected by the copyright]

It is prohibited to copy such originals as book, music, paintings, printed copy, maps, drawings, movie and pictures which are protected by the copyright, except for personnel or family use or similar purpose.

1.3 Features

(1) KIP 3100 Digital Printer is a single footprint Multi-Function Printer which can copy, scan and print large format documents. Some of these features may be optional.

(2) The operation speed is 80mm/sec or up to 5 “D” size prints / minute (landscape).

(3) The maximum print width is 36” (914mm) wide, and the minimum is 11” (279mm) wide.
The maximum print length is 19.7ft (6m) with 36” paper and the minimum is 8.5” (210mm).

(4) A 600dpi Calibrated LED Head and the KIP Image Process System is used for the highest image quality.

(5) The combination of KIP Contact Development System and mono-component minute toner can produce a high definition line, distinctive grayscale and consistent solid black. The KIP HDP process generates no Waste Toner.

1.4 Specifications

1.4.1 General

Subject	Specification
Model	KIP 3100
Configuration	Console
Power consumption (Maximum)	1,500W (Including Scanner & IPS)
Power consumption (Low power mode)	58W or less
Acoustic noise	Idling Max. 60db Printing Max. 65db Impulse sound Max. 70db
Ozone	Max. 0.1ppm (Measurement method under UL Standard)
Dimensions	1266mm (Width) x 600mm (Depth) x 1100mm (Height) 50" w x 24" d x 44" h (UI is not included)
Weight	About 219kg or 485 lbs (1 roll) About 230kg or 510 lbs (2 roll)
Environmental condition for usage	Temperature: 10 to 32 Centigrade 50 to 85 Fahrenheit Humidity: 20 to 85% RH
Interface	Network Interface (10 BASE-T / 100 BASE-TX)
Input power	In the US : 120V plus/minus 10%, 50/60Hz, 12A In Europe : 220-240V plus 6% or minus 10%, 50/60Hz, 7A

 **NOTE**

The above specifications are subject to change without notice.

1.4.2 Printer

Subject	Specification
Printing method	LED Array Electro photography
Photoreceptor	Organic Photoconductive Drum
Print speed	80mm per second (Metric) - (Inch) 6 D Landscape
Print head	LED Array
Resolution of print head	600dpi x 600dpi
Print width	Maximum 914mm or 36" Minimum 279mm or 11" (Roll paper) 210mm or 8.5" (Cut sheet paper)
Print length	Maximum (Standard) 6m or 19.7 feet (Option) 24m or 75 ft Minimum 210mm or 8.5" <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>⚠ NOTE</p> <p>If the print is longer than 6m, image quality or the reliability of paper feeding systems are not guaranteed.</p> </div>
Warm up time	Less than 4 minutes 30 seconds (At 23°C, 60%RH, the rated voltage, and plain paper is used)
First print time	18 seconds (D Landscape) (At 23°C, 60%RH, the rated voltage, and plain paper is used)
Fusing method	Heat and Pressure Rollers
Development method	Dry type non-magnetic mono-component toner
Media	(Recommended Media) Plain Paper 18 - 24lbs Tracing Paper 18 - 20lbs Film 4 MIL Recommend media for electro-photography process
Storage of consumables	(Toner cartridge) Store the cartridge within the temperature range from 0 to 35 degrees Centigrade (32 to 95 degrees Fahrenheit) and within the humidity range from 35 to 85% RH.

⚠ NOTE

The above specifications are subject to change without notice.

1. 4. 3 Scanner

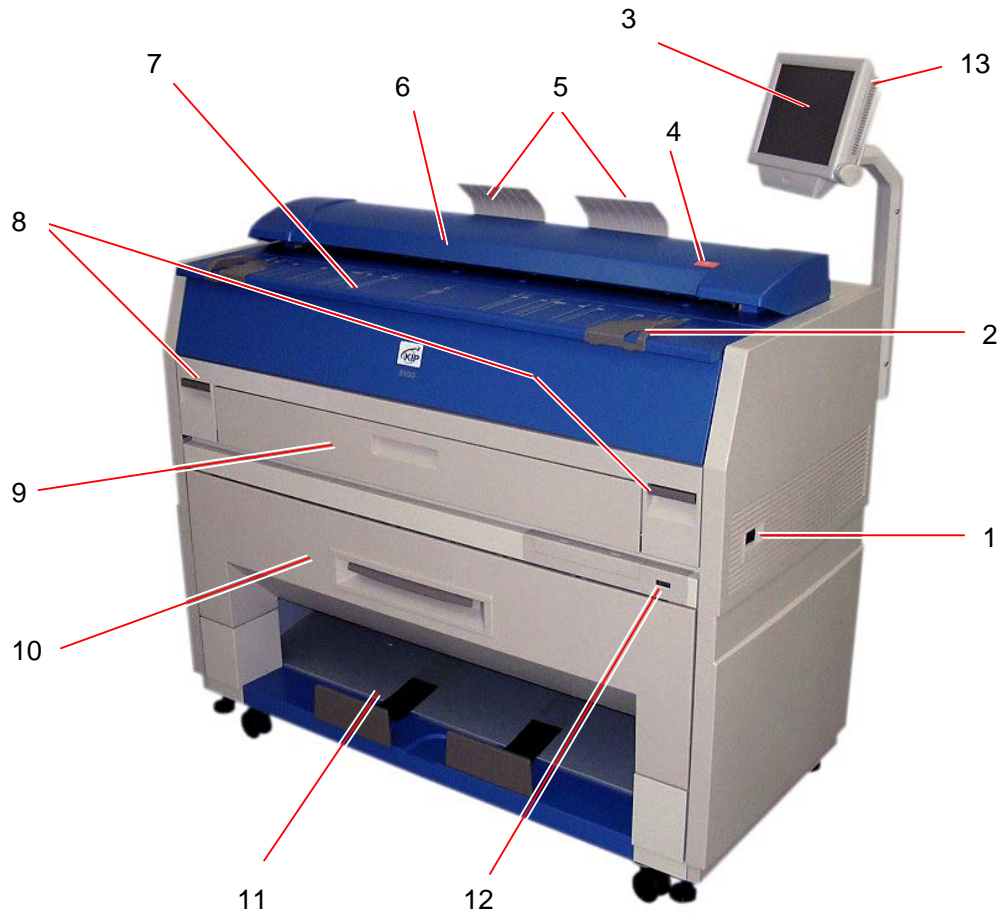
Subject	Specification
Scanning method	Contact Image Sensor (CIS) (5 pieces of A4 or 8.5" sized CIS)
Light source	LED (R/G/B)
Setting of original	Face up
Starting point of scan	Center
Scan width	Max: 914.4mm or 36" Min : 210.0mm or 8.5"
Scan length	Max: 24m or 75 ft (Including the margin area) Min : 210mm or 8.5" (Including the margin area)
Margin area	3mm from leading, trailing and both side edges
Optical resolution	600dpi
Digital resolution	200 / 300 / 400 / 600 dpi
Original transportation	Sheet through type
Transportable original thickness	Max: 1.60mm Min : 0.05mm
Scanning speed	65mm per second

 **NOTE**

The above specifications are subject to change without notice.

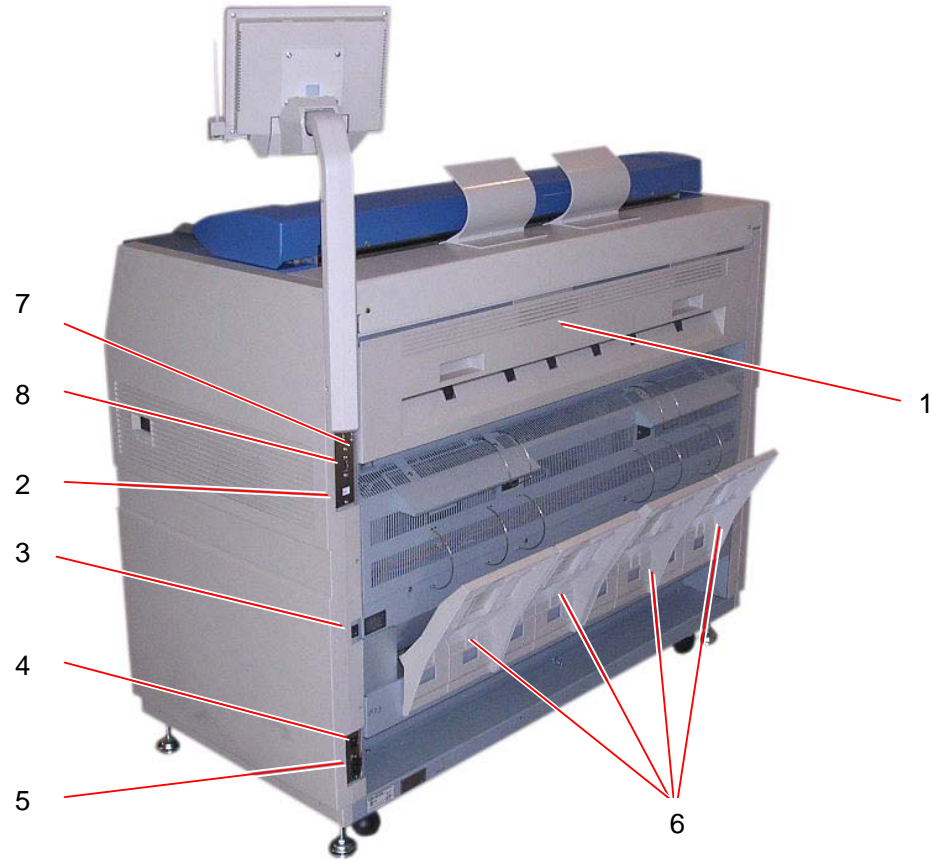
1.5 Appearance

1.5.1 Front view



No.	Name	Function
1	Main Switch	You can turn on/off the KIP 3100.
2	Original Guides	Feed the original under the Scanner Unit along the Original Guides.
3	User Interface	This is a Touch Screen, and many kinds of user operations are available.
4	Emergent Stop Button	Press this button when you would like to stop copying or scanning in an emergency.
5	Original Tray	These trays catch the original ejected from the Scanner Unit.
6	Scanner Unit	This unit reads the original when you make a scan or copy.
7	Toner Hatch (Original Table)	Open the Toner Hatch when you replace the Toner Cartridge. Also put the original here and then feed it into the Scanner Unit when you make a scan or copy.
8	Engine Unit Open Lever	Pull up these levers when you open the Engine Unit.
9	Bypass Feeder	Feed a cut sheet paper from the Bypass Feeder.
10	Roll Deck	Roll paper can be set here. (You can set 1 roll paper normally, but 2 rolls of paper are available if you install the optional 2nd Roll Deck.)
11	Print Tray	Prints are stacked here after the ejection.
12	Counter	It counts the total amount of printing.
13	Stylus	Use this to press buttons on the touch screen.

1.5.2 Rear view



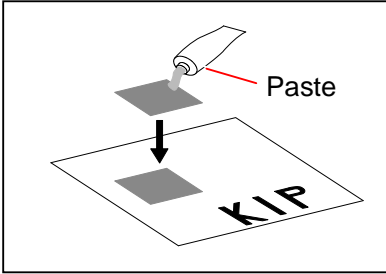
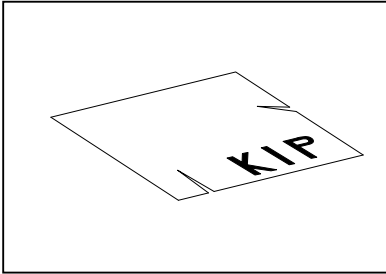
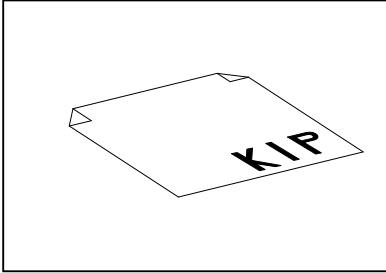
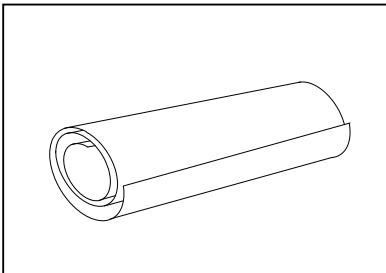
No.	Name	Function
1	Exit Cover	Open the Exit Cover when you remove the paper misfed inside the Fuser Unit.
2	LAN Port	Connect the LAN Cable to connect the KIP 3100 to the network. (Do not connect a telephone line)
3	Dehumidify Heater Switch (Optional in the US)	Turn on the Dehumidify Heater with this switch when you would like to dry the paper during the humid season.
4	Breaker	It is possible to shut off the supplied AC power.
5	Inlet Socket	Connect the Power Cord here.
6	Print Guide Trays	These trays guide the prints to the Print Tray.
7	COM Port (Optional)	Connect the cable from the Optional Device. (D-Sub Connector 9 pins: 12VDC max.)
8	USB Port	5VDC max.

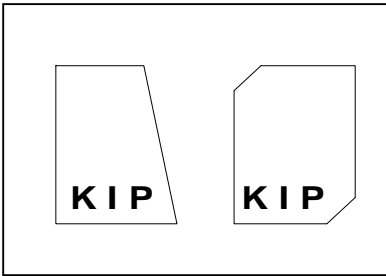
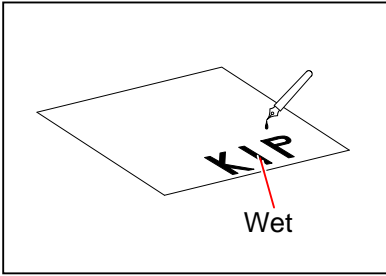
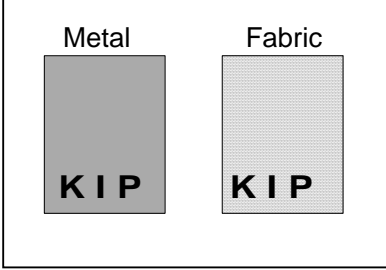
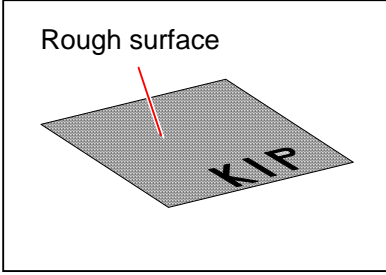
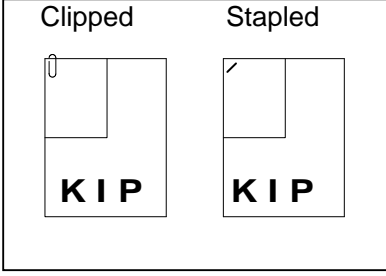
1. 6 Specifications for the Scan Original

A scan original must satisfy the following specifications.

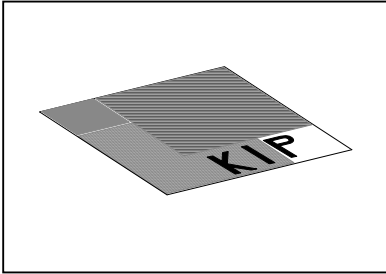
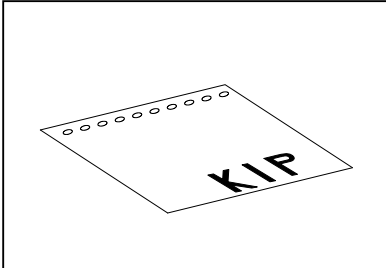
Thickness	0.05mm to 1.6mm
Width	210mm to 914.4mm (8.5" to 36")
Length	210mm to 24,000mm (8.5" to 75ft)

Do not scan the following kinds of originals because you may damage the original or scanner itself!

Stuck with paste	
Torn	
Folded (Leading edge)	
Excessively curled (a diameter of 50 mm or less)	

Not square	
Wet	
Metal or fabric material	
Rough surface (Carbon paper for example)	
Clipped or stapled	

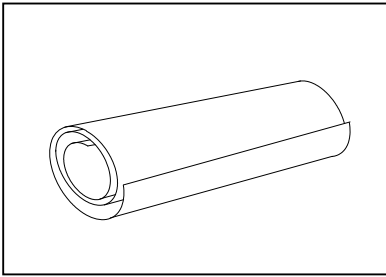
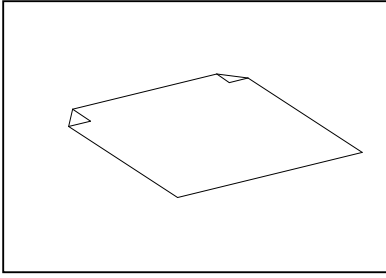
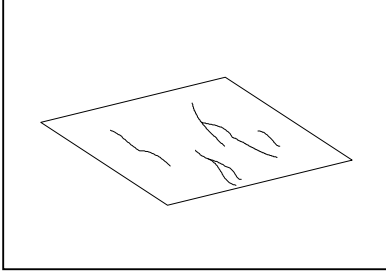
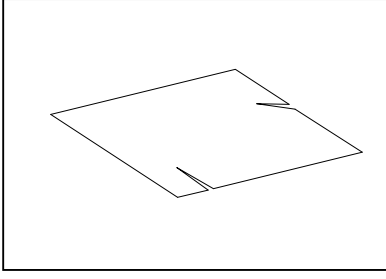
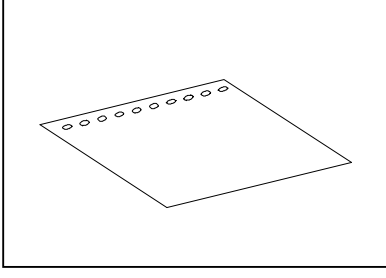
The following kinds of originals can be read with using a carrier sheet.
Image quality or the reliability of paper feeding for them is not guaranteed.

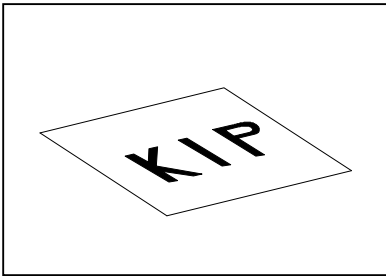
Patched	
Punched	

1.7 Specifications for the Printing Paper

1.7.1 Improper Printing Paper

Do not use the following kinds of printing paper because you may damage the print engine!

Excessively curled (a diameter of 50 mm or less)	
Folded	
Creased	
Torn	
Punched	

Pre-printed	
Extremely slippery	
Extremely sticky	
Extremely thin and soft	
OHP Film	

⚠ CAUTION

Do not use paper with staples, and do not use conductive paper such as aluminium foil and carbon paper.

The use of these materials may cause a fire.

⚠ NOTE

- (1) Print image may become light if printed on a rough surface of the paper.
- (2) Print image may become defective if the print paper has an excessive curl.
- (3) It will become a cause for paper mis-feed, defective print image or crease of paper if you use a paper that does not satisfy the specification.
- (4) Do not use a paper of which surface is very special, such as thermal paper, art paper, aluminium foil, carbon paper and conductive paper.
- (5) Tracing paper exposed to air over a long period tends to cause defective printing. Removing one round from the beginning of the roll surface of the tracing paper is recommended.
Refer to [2.3 Replacement of Roll Paper] on page 2-5.

1. 7. 2 Proper Care of Printing Paper

Follow these steps in taking care of your printing paper.

1. Do not expose the paper to the direct sunlight.
2. Keep the paper away from high humidity. (It must be less than 70%)
3. Put the paper on a flat place
4. Place unused paper back into its original polyethylene bag to avoid the humidity.

1. 7. 3 Treatment against environmental condition

Shown below are necessary treatments according to the environmental conditions.

Humidity (%)	Possible problem	Necessary treatment
Low ↑	“Void of image”, “crease of paper” and other problems occurs when you print with plain paper and tracing paper.	1. Install the humidifier in the room, and humidify the room air. 2. Remove the paper from the machine right after the completion of the print, and keep it in a polyethylene bag.
	“Void of image” occurs when you print with tracing paper.	If you will not make prints soon, remove the tracing paper from the machine and keep it in a polyethylene bag.
40%		Remove the paper from the machine after everyday use, and keep it in a polyethylene bag.
70%	“Void of image” occurs when you print with plain paper and tracing paper.	If you will not make prints soon, remove the tracing paper from the machine and keep it in a polyethylene bag.
High ↓	“Void of image”, “crease of paper” and other problems occurs when you print with plain paper and tracing paper.	1. Turn on the Dehumidify Heater.(if installed) 2. Remove the paper from the machine right after the completion of the print, and keep it in a polyethylene bag.

! NOTE

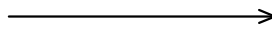
(1) KIP 3100 is equipped with the Dehumidify Heater (optional for the US). Using it in high humidity environment (65% or higher) is recommended. Refer to [2. 9 Dehumidifying Roll Paper] on page 2-18.

(2) “Void of image” and “crease of paper” will occur in case of extremely high or low humidity.

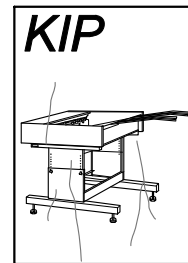
Normal Print



If the media is humidified;



Crease of paper



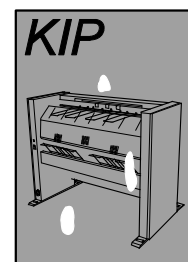
Normal Print



If the media is humidified;



Loss of image



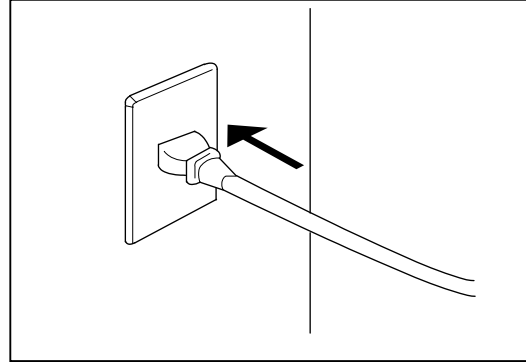
Chapter 2

Basic Operation

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2. 1 Turning on KIP 3100

1. Ensure the KIP 3100 is plugged into a dedicated wall outlet.



⚠ WARNING

- (1) Do not handle the Power Plug with wet hands, or you may receive an electrical shock.
- (2) Make sure to ground the machine for your safety.
- (3) Do not plug the printer into a multi-plug connector in which other devices are plugged. It may overheat the outlet and may result in a fire.
- (4) The outlet must satisfy the following conditions.
 - In U.S.A. : 120V plus/minus 10%, 50/60Hz and 15A
 - In Europe : 220-240V plus 6% or minus 10%, 50/60Hz and 10A

2. There is a Power Switch on the right side of KIP 3100.

Press the “ I ” side to turn on the KIP 3100.

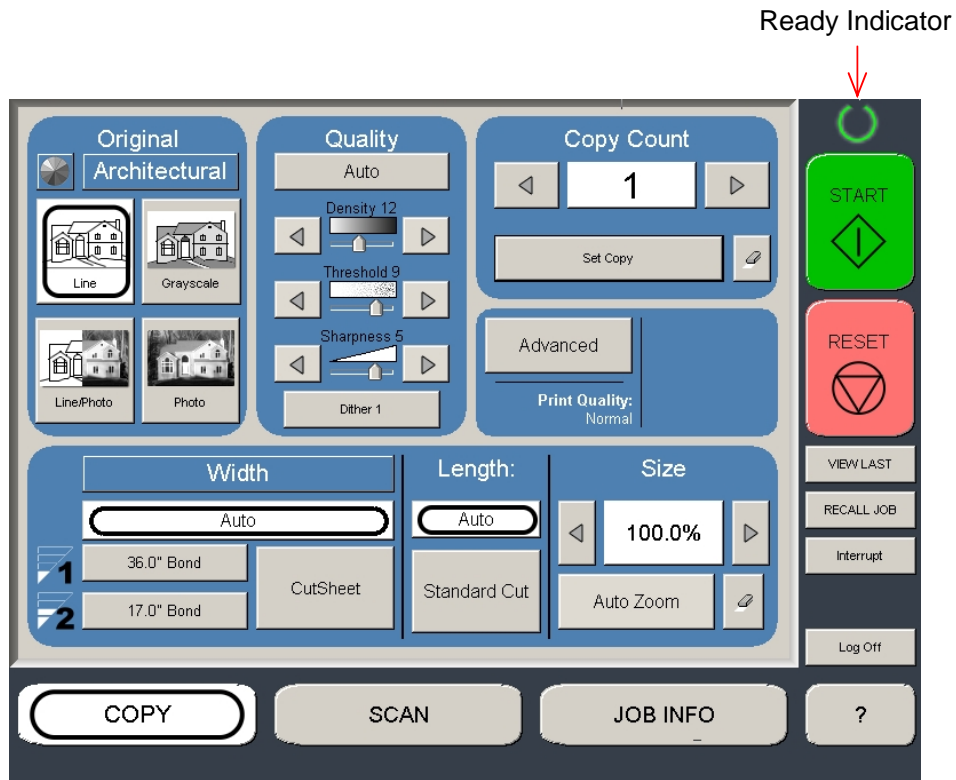


Power Switch



Press this side.

3. The User Interface (UI) starts operating and displays the following Copy Mode Screen in approximately one minute. A Ready Indicator on the Copy Mode Screen will flash during the warm up process.



Note: The above screen is shown with available options.

4. When the Ready Indicator stops flashing, the KIP 3100 is ready for operation. You can make a copy, scan (optional) or print (optional).

2.2 Turning off KIP 3100

1. There is a Power Switch on the right side of KIP 3100.

Press the “O” side to turn off the KIP 3100.



Power Switch



Press this side.

CAUTION

The KIP 3100 print engine and UI appears to be shut down when you turn off the KIP 3100. However, the controller PC embedded inside the KIP 3100 is still operating and will shutdown in approximately three minutes after Power Switch operation.

Do not unplug the KIP 3100 before the controller PC completes its shutdown. Doing so may damage data or the device.

2.3 Roll Media Replacement

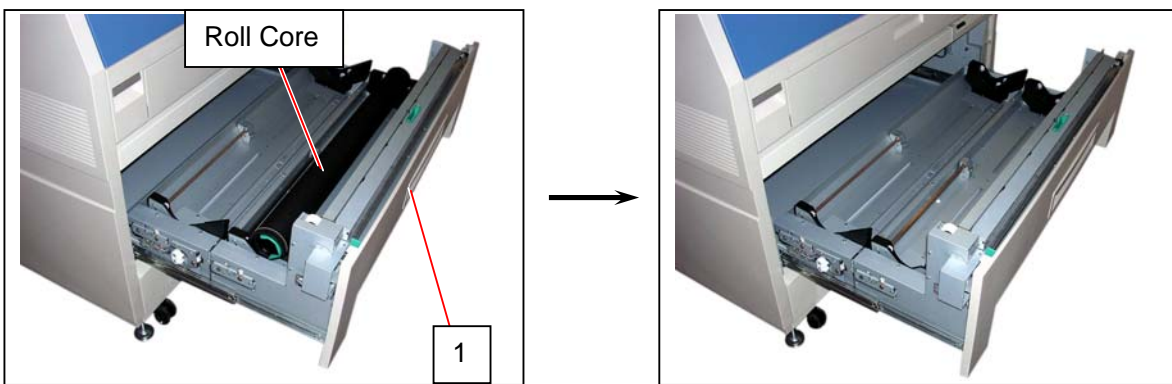
NOTE

A paper mis-feed may occur just before an end of roll paper condition.

Reference

This section describes how to install a roll of media to Roll Deck 1. The same procedure is applied to Roll Deck 2, unless otherwise noted.

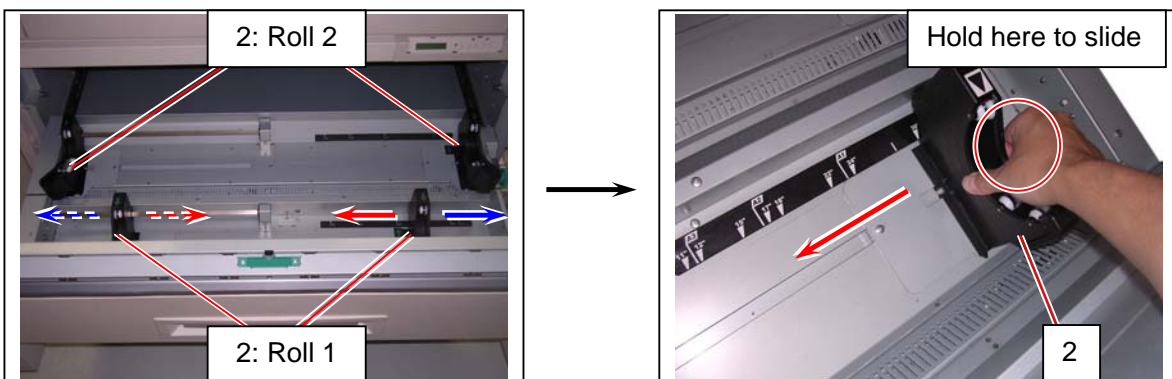
1. Open Roll Deck (1) and remove the empty roll core.



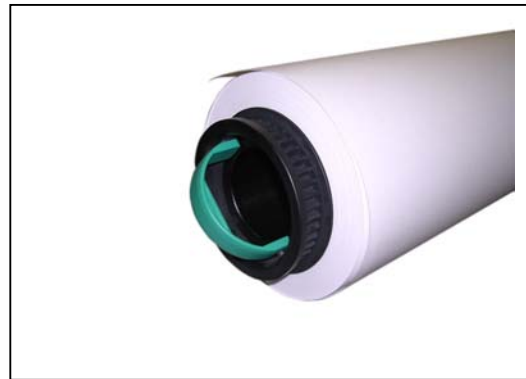
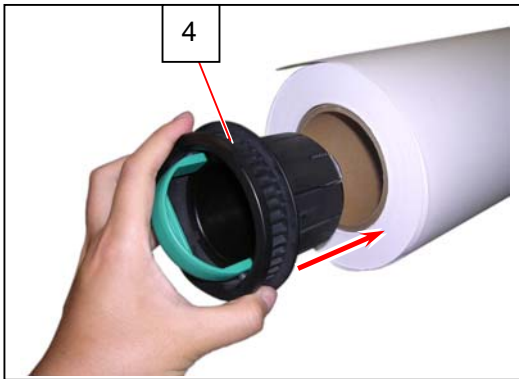
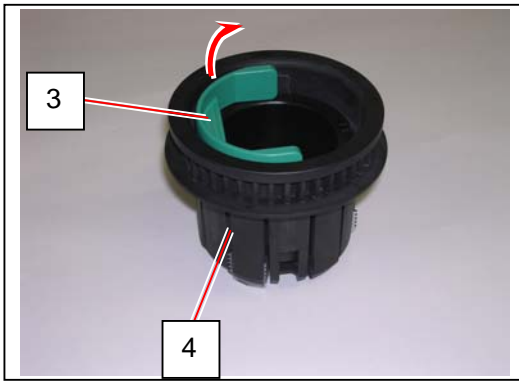
NOTE

Please confirm that the machine has finished the printing completely before opening the Roll Deck. If you open the deck while it's still printing, a paper mis-feed may occur.

2. Move the right Slide Guide (2) to match your roll media's width. The right and left Side Guides will automatically move together.



3. Raise lever (3) on the Flange (4). Insert each Flange into both ends of the roll media core to be installed.



NOTE

Fully insert Flange into the roll media core so that the inside rim of the Flange evenly touches the side face of the roll media.

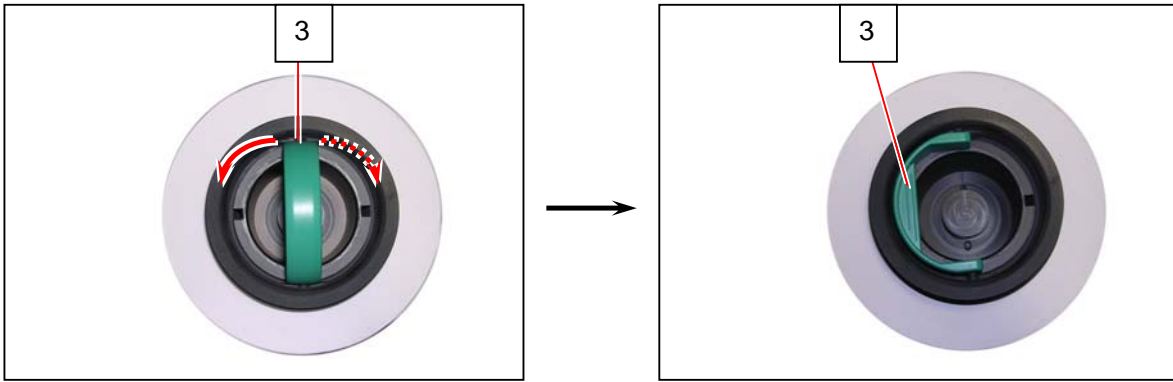


Correct: Fully inserted

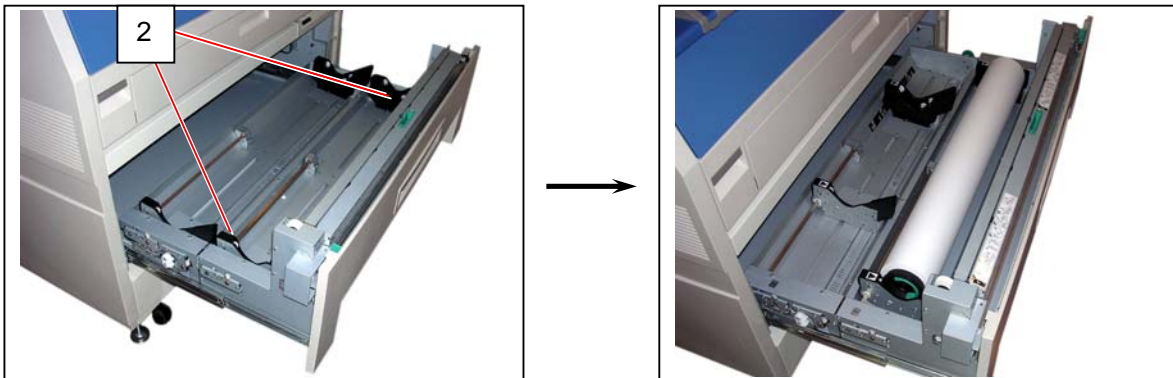


Wrong: Does not touch roll side

4. Push both levers (3) down in either way. Position them flat against the flange to secure the roll media.

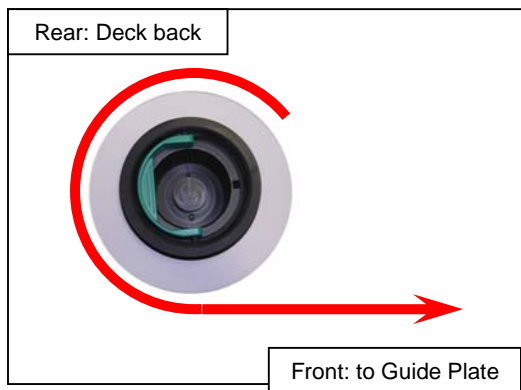


5. Lift the roll media by holding both Flanges. Lower the Flanges onto the Slide Guides (2) in the roll deck.

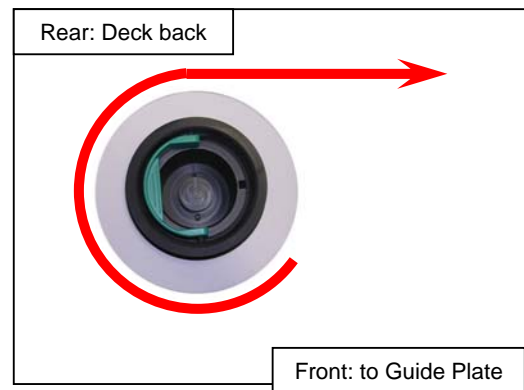


NOTE

(1) Note the rewinding direction.



Correct: Edge comes from bottom

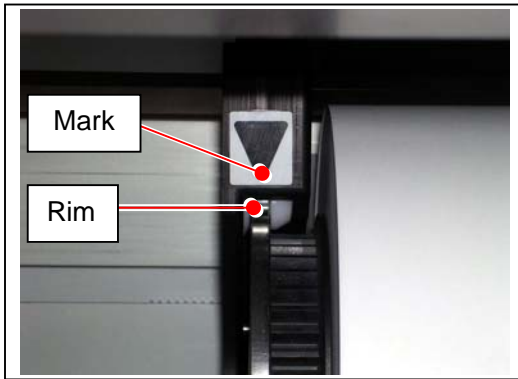


Wrong: Edge comes from top

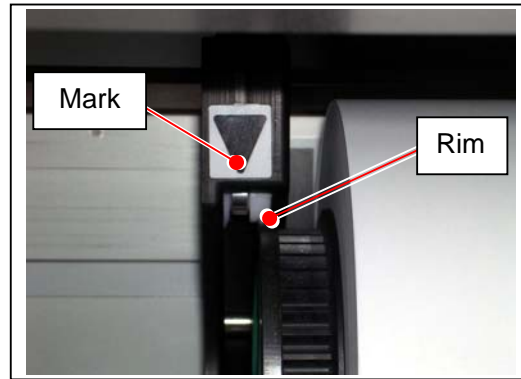
(continued on the next page)

! NOTE

- (2) The outside rim of the Flange should meet the black triangle marked on the Slide Guide. Otherwise the roll media may fall into the Roll Deck or result in incorrect media feeding.

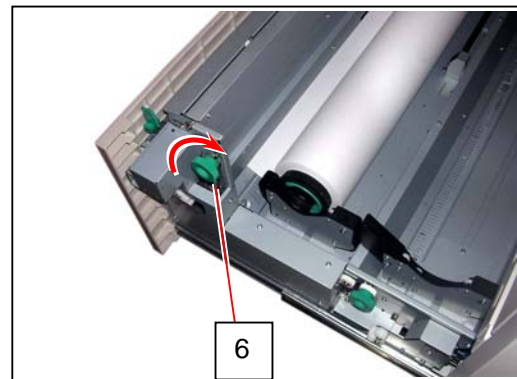
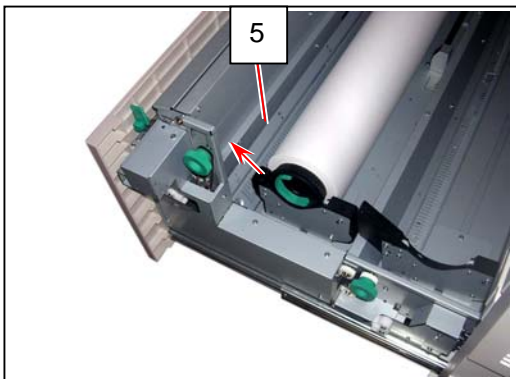


Correct



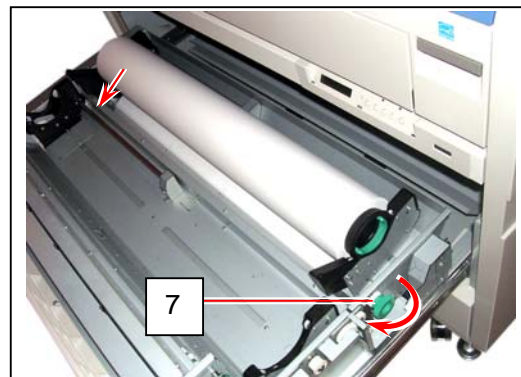
Wrong

6. Insert the leading edge of the roll media under Guide Plate (5) until it touches the feeding roller. Rotate Feed Knob (6) clockwise so that the feeding rollers catch the leading edge.

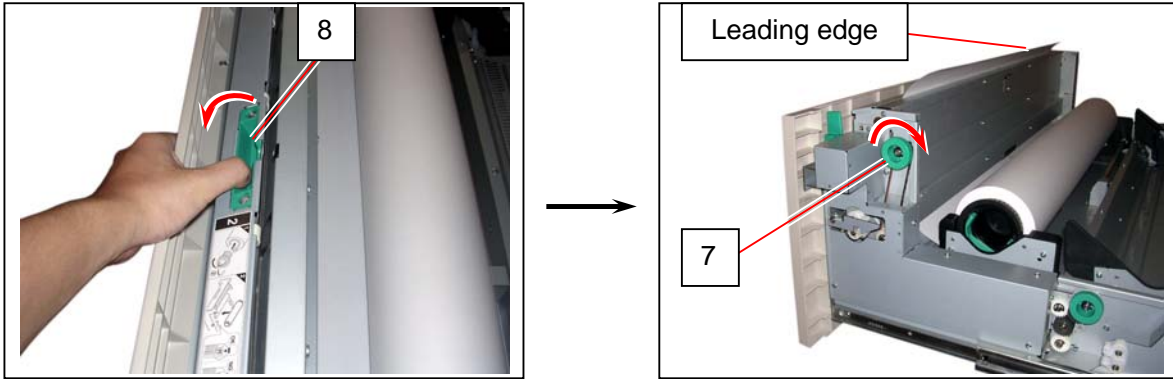


! NOTE

Use the rear Feed Knob (7) for Roll Deck 2.



7. Hold the green grip (on the middle of Guide Plate) (8) and turn the Guide Plate towards the outside. While holding the green grip, again rotate Feed Knob (7) until 8.5" (210mm) of the leading edge comes out.



8. Slide the green Cutter Knob (9) fully from one side to the other to make a new straight edge. Remove the cut portion.



⚠ NOTE

Completely slide Cutter Knob until it stops at either end.
Not doing so may cause a paper jam.

9. Close Roll Deck.

⚠ NOTE

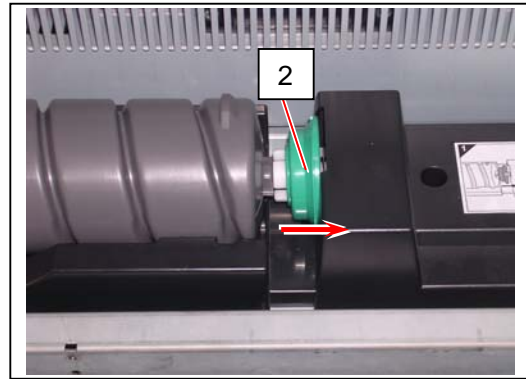
Be sure to close the Roll Deck fully until it locks at the correct position.
A paper jam may occur if it is not locked firmly.

2. 4 Toner Installation

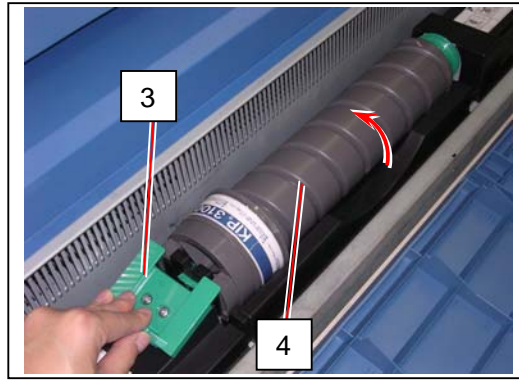
1. Open the Toner Hatch (1).



2. Slide the green Lever (2) to the right to unlock the Toner Cartridge.
(Lever (2) is held automatically.)



3. Pressing down the Cartridge Lock Lever (3), rotate the body (4) of the cartridge to the arrow direction (clockwise) by several rotations until it stops. (This will close the toner supplying hole of the cartridge.)

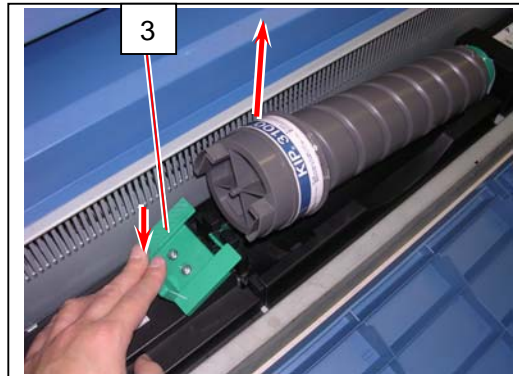


! NOTE

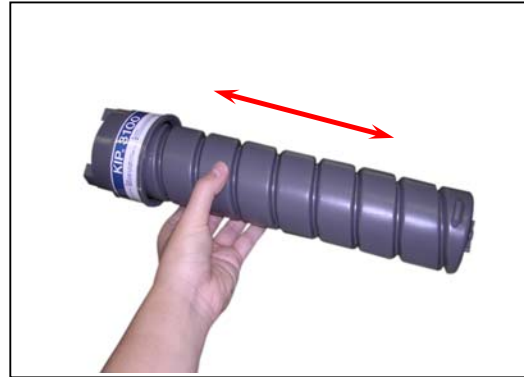
The toner may drop from the toner supplying hole, and it may be scattered into the machine or on the floor if you remove the Toner Cartridge without closing the toner supplying hole (5).



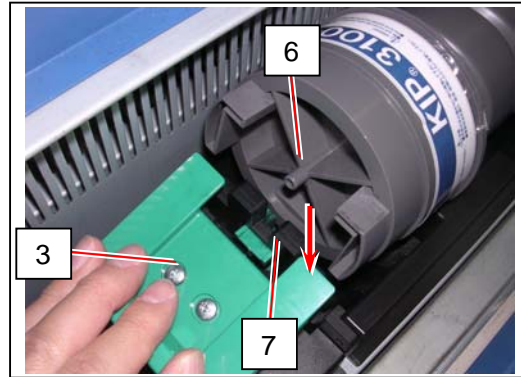
4. Pressing down the Cartridge Lock Lever (3), lift up the left side of the Toner Cartridge first, and then remove the whole cartridge from the machine.



5. Shake the new Toner Cartridge several times left and right to make the toner smooth.



6. There is a pin (6) on the left side of cartridge, and there is a groove (7) on the machine side. Pressing down the Cartridge Lock Lever (3), fit the pin (6) to the groove (7).



NOTE

Please confirm that the Cartridge Lock Lever (3) firmly locks the Toner Cartridge at the correct position. (It must be at a level position.)

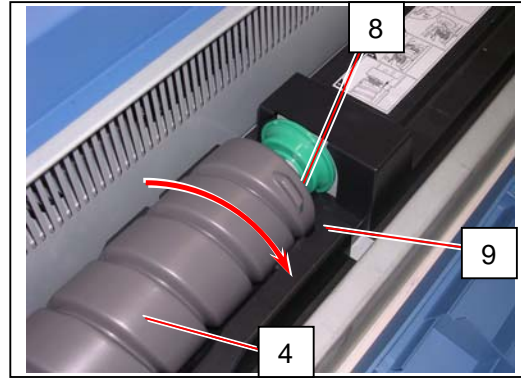
Good



No good

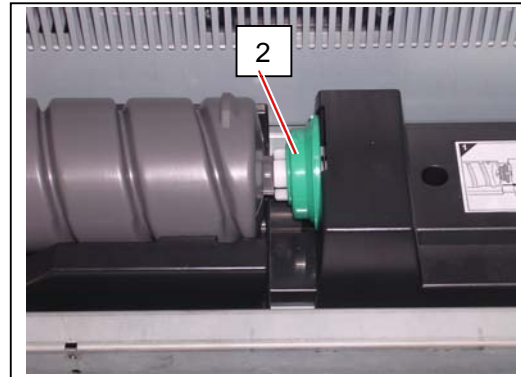


7. Rotate the body (4) of the cartridge to the arrow direction (counterclockwise) several rotations to open the toner supplying hole.
Confirm that the projection (8) is fitted into the notch (9).



! NOTE

It is not necessary to lock the cartridge with the Lever (2).
This lever will engage on its own after closing the Toner Hatch.



8. Close the Toner Hatch (1).



2.5 Cut Sheet Media Placement

1. Open the Cut Sheet Feeder table (1).



2. There are several size markings on the feeder table which indicate possible feed positions. Place the cut sheet paper on the table between its corresponding size markings, then insert it into the Feeder. When the leading edge touches the feeding roller, the machine automatically carries and sets the sheet to the proper position.

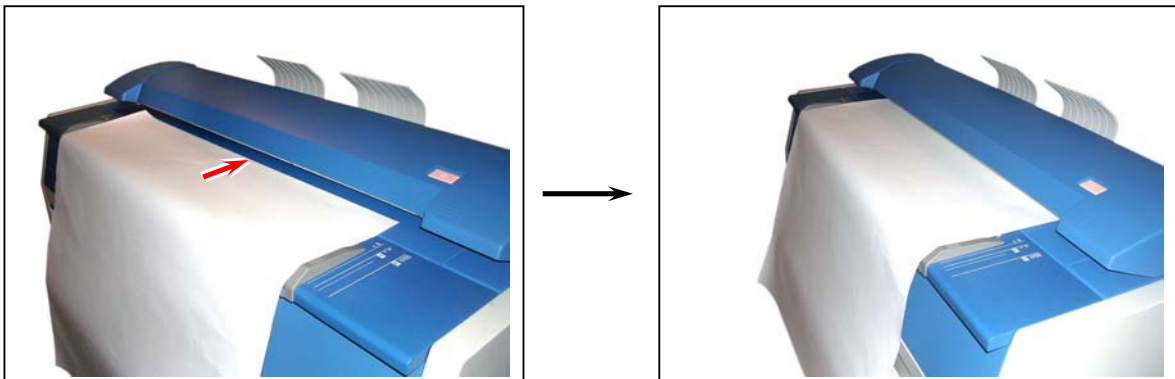


2. 6 Copying

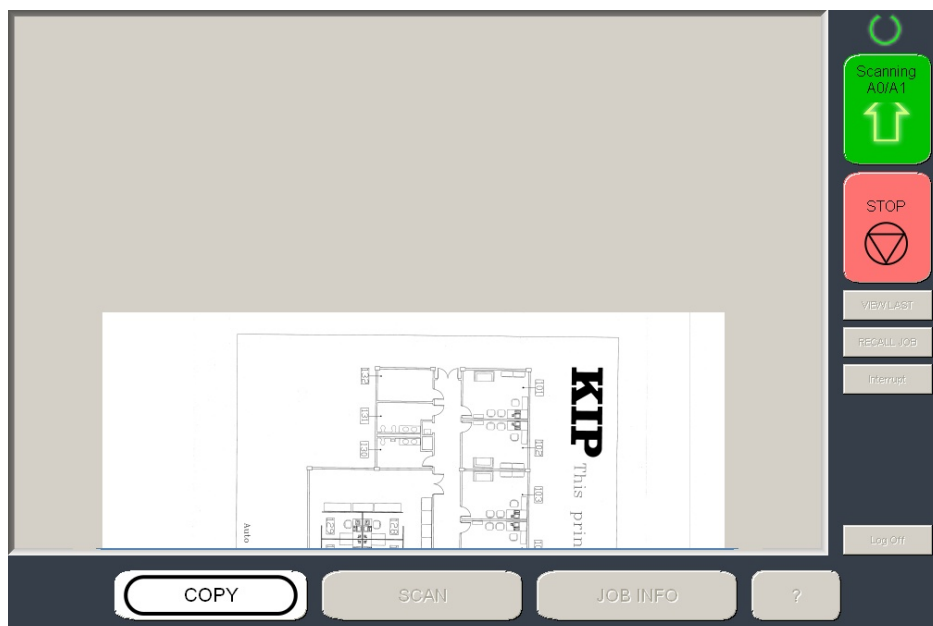
1. There are several size markings on the Original Table which indicate possible feed positions. Line up the Original Guides (1) with the proper markings according to the original width.



2. Put the original on the Original Table face up. Then insert it under the Scanner Unit along the original Guides. When the leading edge touches the original feeding roller, the machine automatically carries and sets the original at the proper position.

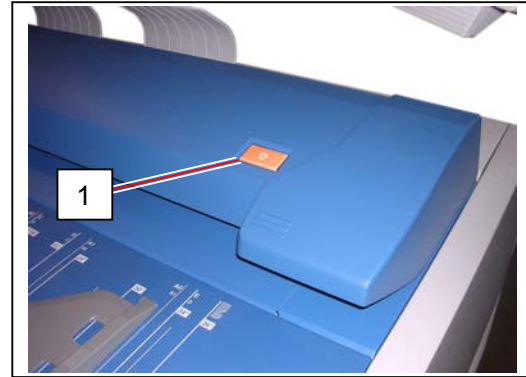


3. The KIP 3100 will start the print process.



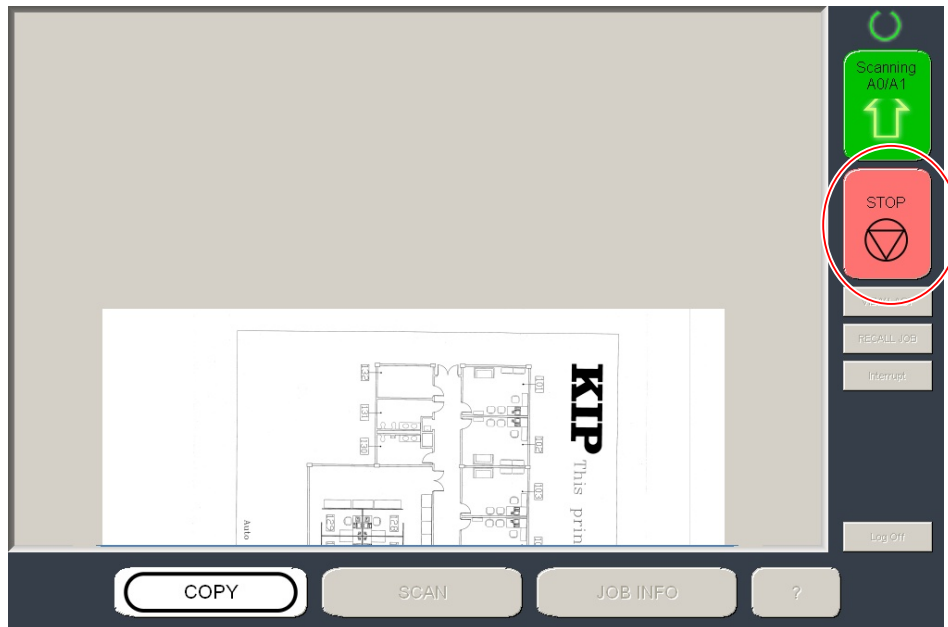
2.7 Emergency Stop of a Scan or Copy

If necessary, press the Emergency Stop Button (1) on the Scanner Unit to immediately stop the original while making a copy or scan.



Pressing this button immediately stops the current reading of the original document. The current printing is stopped as well and is ejected.

[Stop] on the touch screen will work as the same function.



NOTE

Do not pull back or hold down the original as an attempt to stop feeding it through the scanner.

2. 8 Canceling Sleep Mode

The KIP 3100 has two Sleep Modes to reduce the power consumption.
The KIP 3100 will enter into Sleep Mode after a certain period of inactivity.

In the default setting;

- Warm Sleep Mode will start after a 15 minute period of inactivity. This mode will reduce the power supplied to the Fuser Unit.
- Cold Sleep Mode will start after a 60 minute period of inactivity. This mode will stop the power supplied to the Fuser Unit and some other components.

The Sleep Mode is canceled and the machine goes to ready condition when;

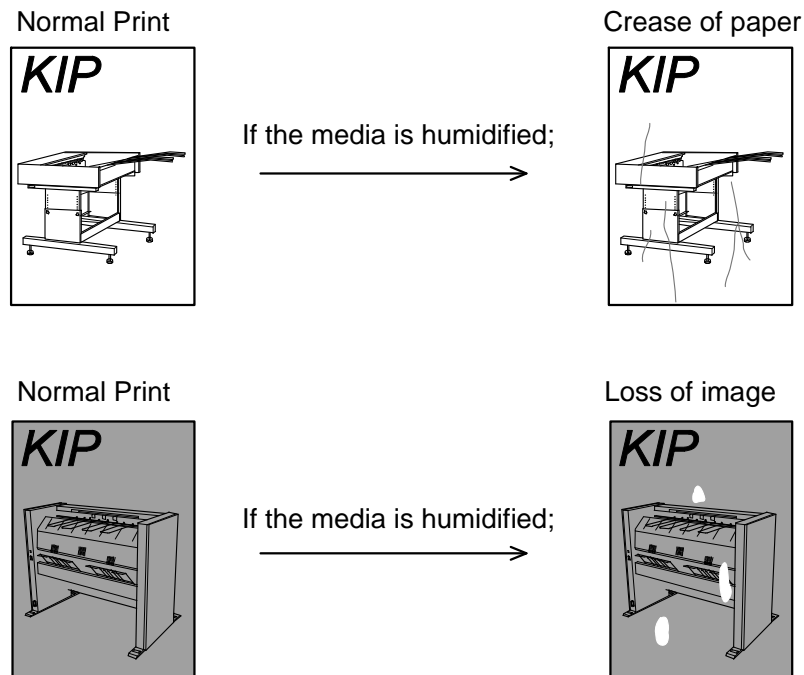
- the machine receives a print job through the network.
- the UI is touched and an original is inserted into the scanner.

NOTE

- (1) It may take time for the machine to get ready.
- (2) Touching the UI will quickly cancel the screensaver. It may take more time to warm up the machine for copying / printing.

2.9 Dehumidifying the Roll Media

If the roll paper is extremely humidified, it may cause several kinds of defective prints. The most common defective prints you will experience are “crease of paper” and “loss of image”.



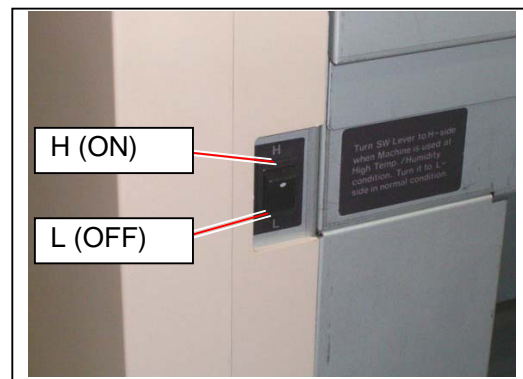
Turn ON the Dehumidify Heater if the room air has too much humidity (65% or higher) to prevent the above kinds of print defect.

You may be able to fix the above kinds of problem.

NOTE

KIP 3100 is equipped with the Dehumidify Heater (optional for the US)
If needed, contact the service personnel for detail.

To turn ON the Dehumidify Heater, press the H side of the Dehumidify Heater Switch on the rear.
(Press its L side to turn OFF.)



Dehumidify Heater Switch

Chapter 3

Error Correction

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3. 1 Operator Call Errors

3. 1. 1 Paper mis-feed errors

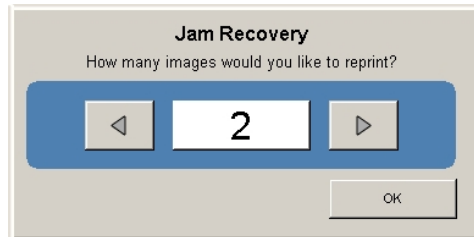
NOTE

- (1) Take care not to get paper cuts on your hand.
- (2) Take off your ring, bracelet or watch when clearing paper jams. If they touch the internal components, it may result in a burn, an electric shock or damage to components.
- (3) Gently remove jammed paper. When it doesn't reach the Fuser Unit, toner on it may spill off.
If toner gets into your eyes or mouth, immediately rinse them with water and contact a doctor.
- (4) Gently remove jammed paper. When it doesn't reach the Fuser Unit, toner on it may spill off on your clothes.
Dust off your clothes. Use cold water to wash in out. Using hot water may leave a stain.
- (5) If a paper jam occurs using multiple copy or set copy, the Jam Recovery screen will appear in the UI. Jam Recovery reprints the removed sheets.

Enter a number of the images to be reprinted with the arrow buttons.

The available number ranges from 1 to 9, and the default is "2".

The number of images to be reprinted is equivalent to the amount of the removed sheets.

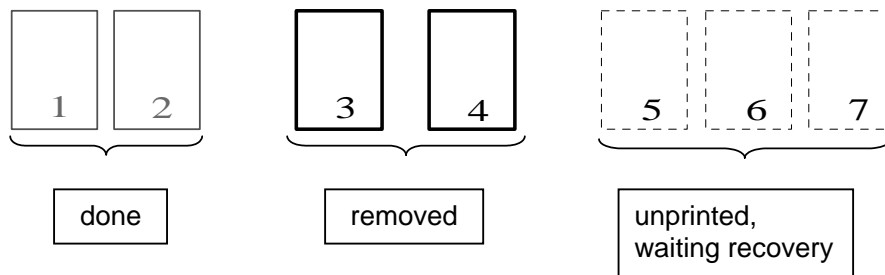


The number of images that have not been removed (already printed or unprinted images) should not be included.

Unprinted images (not started yet because of the jam failure) will be resumed on recovery of the machine.

Ex: While making a 7-sheet set copy, you remove sheets No.3 and 4 because of a jam

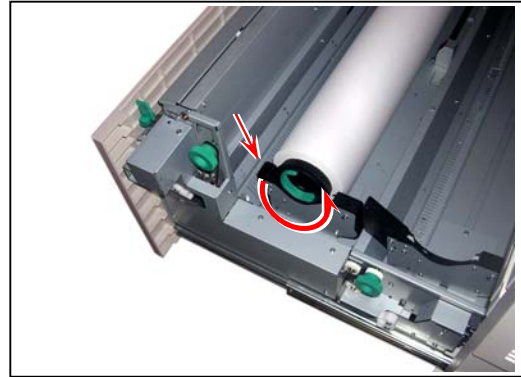
→ The required number (to be reprinted) is "2".



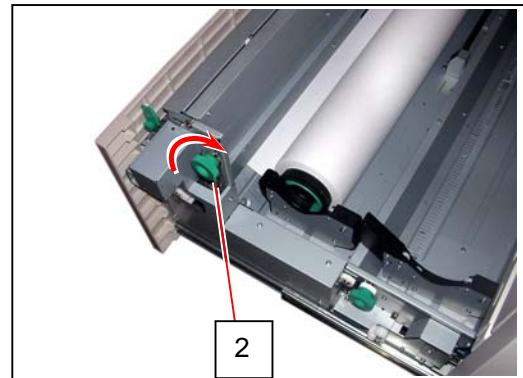
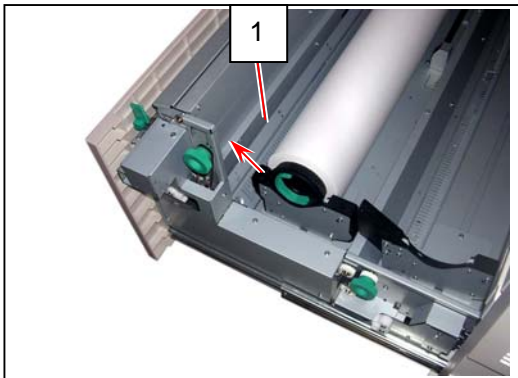
3. 1. 1. 1 Deck Jam / Feeding Jam

If either “Deck is jam” or “Feeding Jam” is indicated when the roll paper is mis-fed in the Roll Deck.

1. Open the Roll Deck, and rewind the roll paper.



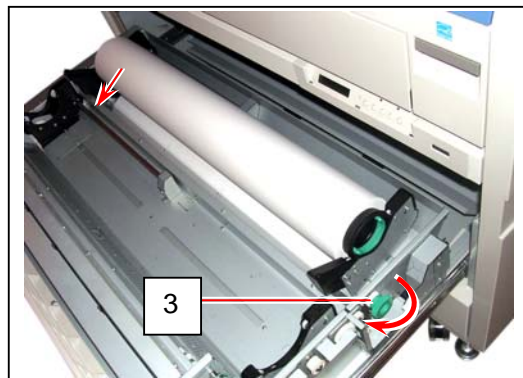
2. Insert the leading edge of roll paper under the Guide Plate (1) until the edge touches the feeding roller. Then rotate the Paper Feeding Knob (2) clockwise so that the feeding rollers catch the roll paper.



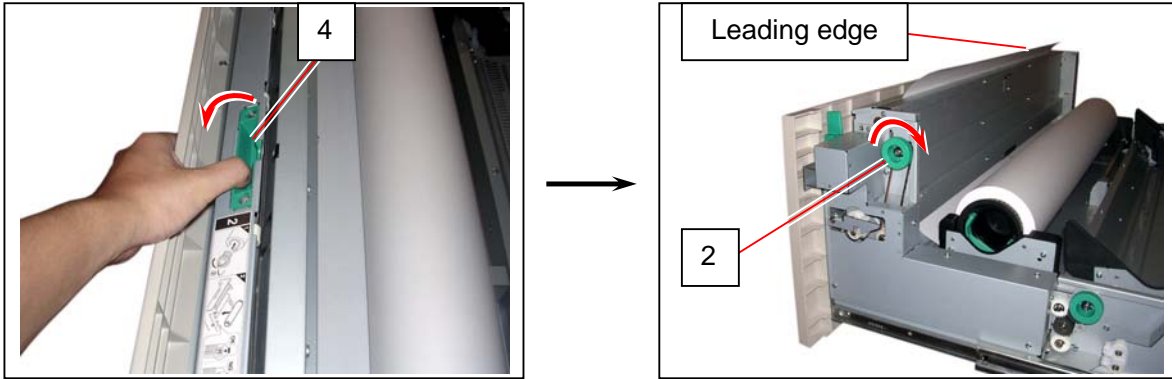
NOTE

The leading edge should be trimmed with a cutter in case of an extreme crease.

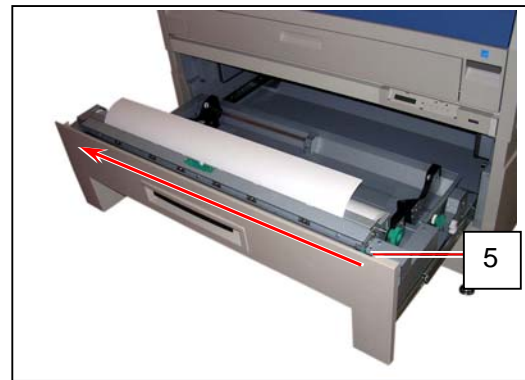
For Roll 2, use the Paper Feeding Knob on the rear side (3).



- When the feeding rollers catch the paper, turn the middle of the Guide Plate (4) towards the outside.
Rotate the Paper Feeding Knob (2) again until 8.5" (210mm) of the leading edge comes out.



- Slide the green Cutter Knob (5) fully from one side to the other to make a new straight edge.
Remove the cut portion.



⚠ NOTE

Completely slide the Cutter Knob until it stops at either end.
Not doing so may cause a paper jam.

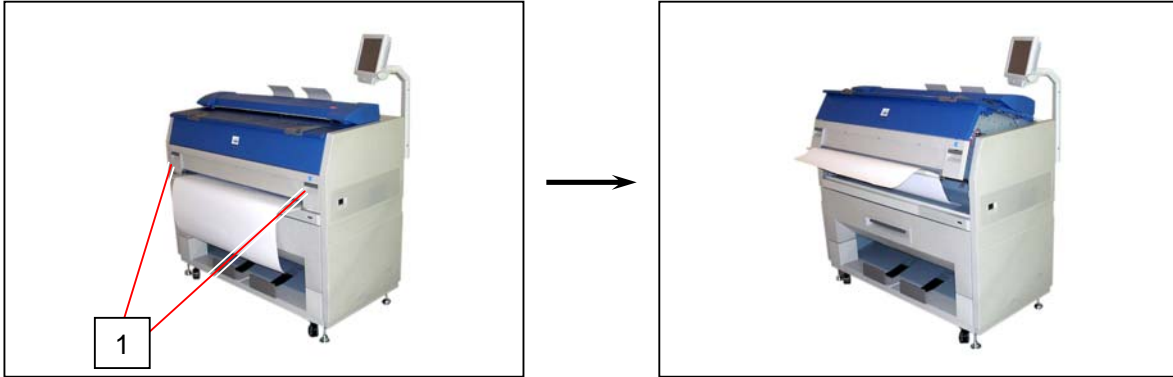
- Close Roll Deck.

⚠ NOTE

Be sure to close the Roll Deck fully until it locks at the correct position.
A paper jam may occur if it is not locked firmly.

3. 1. 1. 2 Manual Jam

1. Open the Engine Unit by pulling up both Engine Unit Open Levers (1).



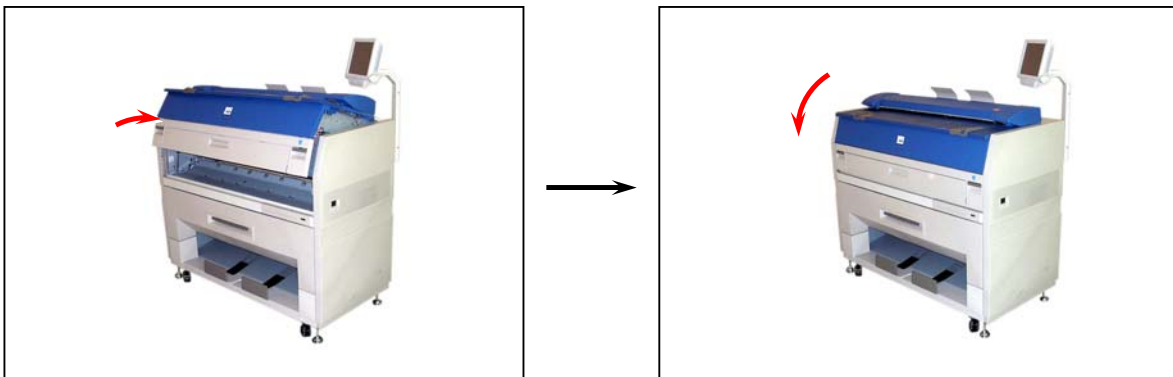
NOTE

Do not open the Engine Unit when the Scanner Unit is opened.
If the Scanner Unit is opened, it will hit the bottom of User Interface.

2. Remove the mis-fed paper by pulling forward.



3. Close the Bypass Feeder and Engine Unit.

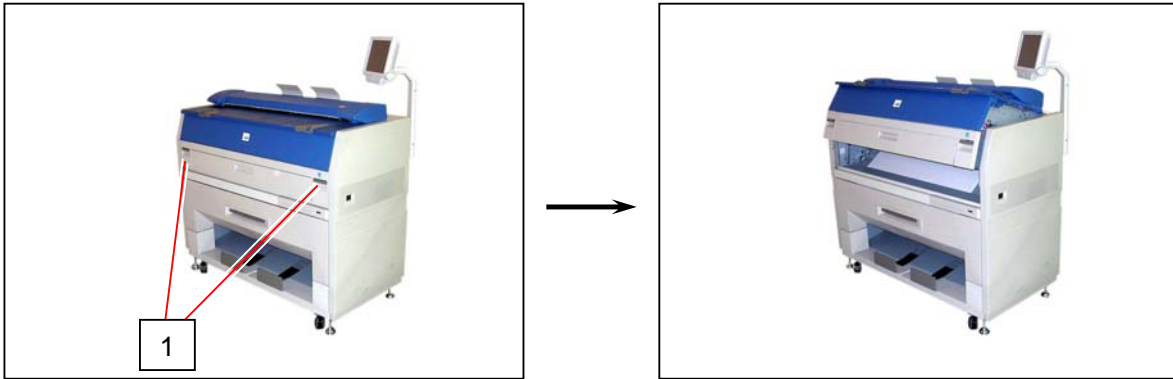


NOTE

Be sure to close the Engine Unit firmly until it is locked at the correct position.
The mis-fed paper can be replaced with a new one, or be inserted at the opposite edge into the feeder. An extreme crease may cause a paper jam.

3. 1. 1. 3 Reg. Jam / Internal Jam

1. Open the Engine Unit by pulling up both Engine Unit Open Levers (1).



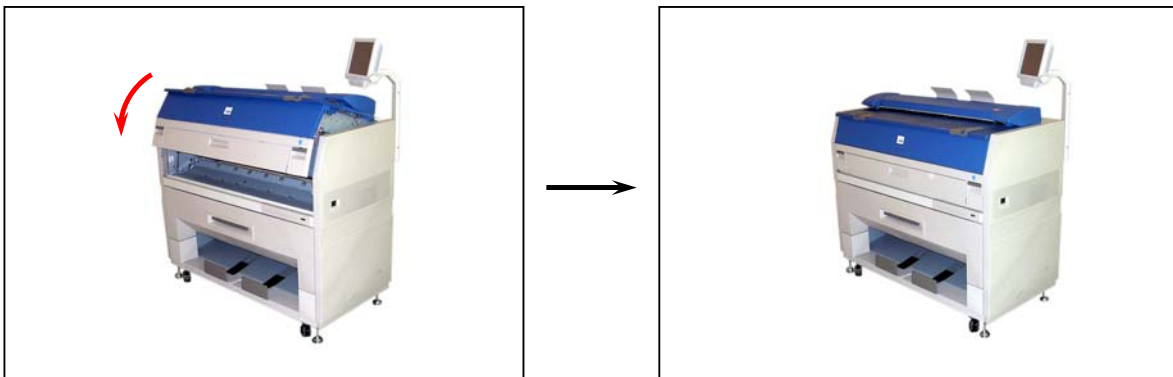
⚠ NOTE

Do not open the Engine Unit when the Scanner Unit is opened.
If the Scanner Unit is opened, it will hit the bottom of User Interface.

2. Remove the mis-fed paper.



3. Close the Engine Unit firmly.

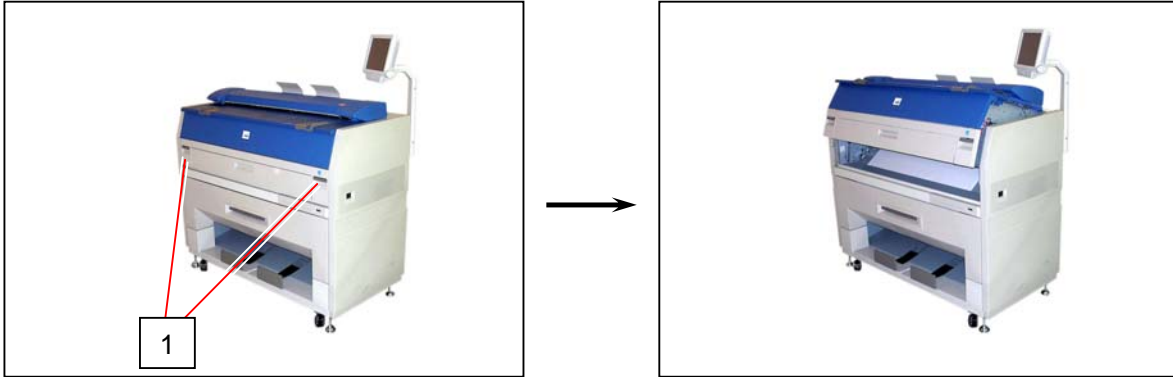


⚠ NOTE

Be sure to close the Engine Unit firmly until it is locked at the correct position.

3. 1. 1. 4 Fuser Jam

1. Open the Engine Unit by pulling up both Engine Unit Open Levers (1).



! NOTE

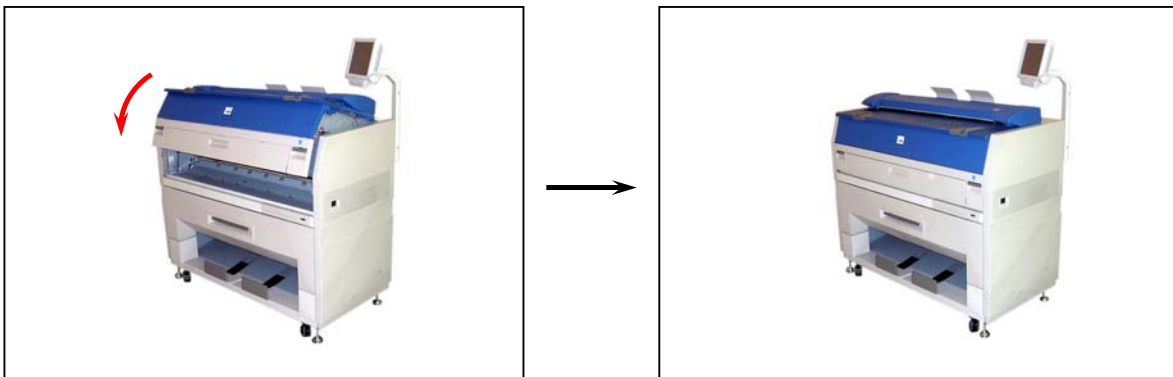
Do not open the Engine Unit when the Scanner Unit is opened.
If the Scanner Unit is opened, it will hit the bottom of User Interface.

2. Remove the mis-fed paper if seen.



3. Close the Engine Unit firmly.

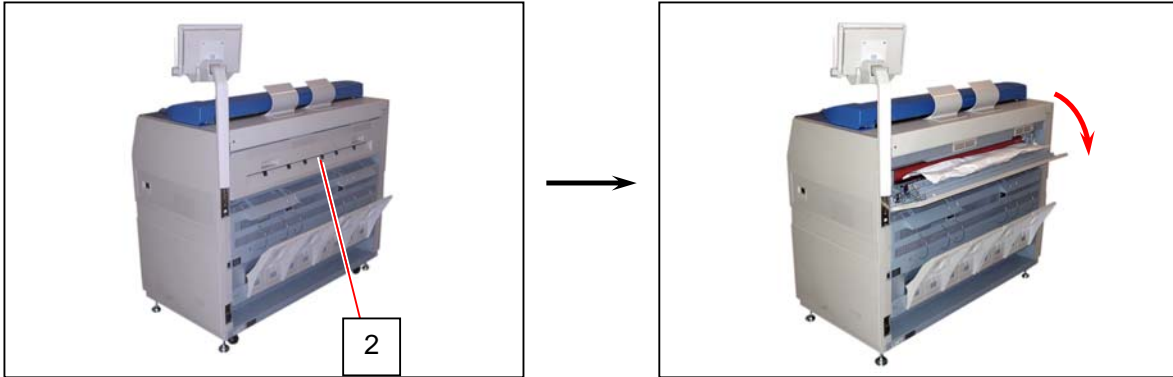
Refer to the next page when the mis-fed paper cannot be seen or removed.



! NOTE

Be sure to close the Engine Unit firmly until it is locked at the correct position.

4. Open the Exit Cover (2).



5. Remove the jammed paper by pulling it to the rear side.



⚠ WARNING

There are extremely hot parts inside the Exit Cover.
Do not touch any parts in the Heater Unit, or you will be burnt.
Also be careful not to get burnt when you touch the printing paper as it may be very hot.

⚠ NOTE

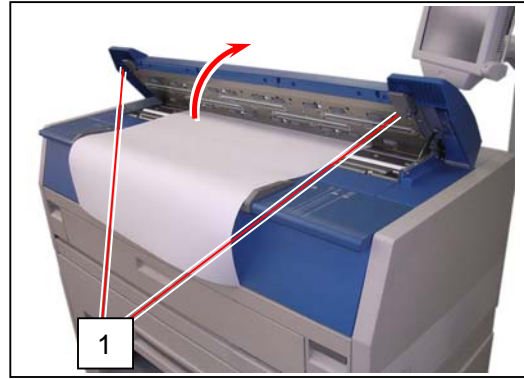
When removing a mis-fed paper inside the Exit Cover, scattered toner can be adhered to the next print.

3. 1. 1. 5 Accessory Jam

The printing paper is mis-fed in the optional device such as Auto Stacker or Folder.
Remove the mis-fed paper making reference to the User's Manual for the optional device.

3. 1. 1. 6 Original Jam

1. Open the Scanner Unit by pulling up both Levers (1), and then remove the original.



2. Gently press Scanner Unit down and firmly close it.



NOTE

Press down Scanner Unit on both sides to close it.
Do not close it by pressing only one side down.

3. 1. 2 Others

3. 1. 2. 1 Initial state

This message is indicated when the KIP 3100 is turned on for the first time.

NOTE

You will not find this message because every machine has been turned on at least once before shipment.

3. 1. 2. 2 Deck Open

This message is indicated when the Roll Deck is opened.
Close it firmly.



3. 1. 2. 3 Accessory Error

Any error occurs in the optional device such as Auto Stacker or Folder.
Clear the error making reference to the User's Manual of the optional device.

3. 1. 2. 4 Manual Set NG

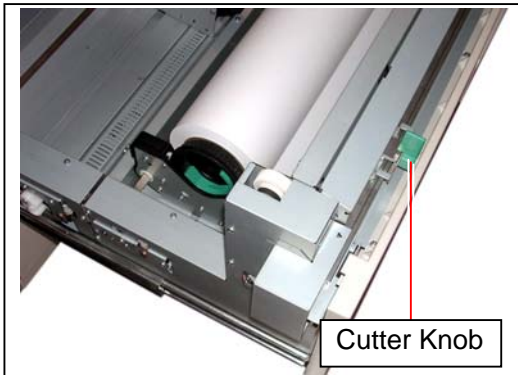
This message is indicated when a cut sheet paper is inserted to the Bypass Feeder during warming up.
Remove it from the Bypass Feeder.



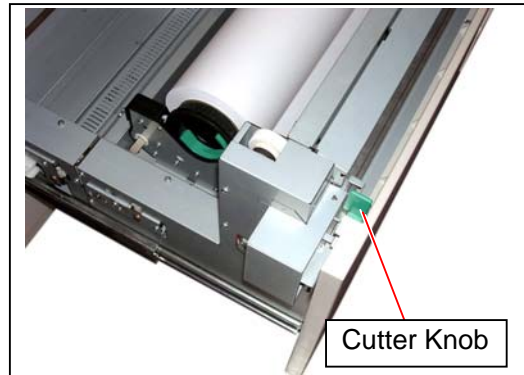
3. 1. 2. 5 Cutter Set NG

This message is indicated when the Cutter Knob is not located at the correct position.
Open the Roll Deck, and slide the Cutter Knob fully to the left or right to align the Cutter Knob with the end of the railing.

Incorrect (Not placed at the end)



Correct (Placed at the left or right end)



3. 1. 2. 6 Toner Empty

This message is indicated when the Toner Cartridge is emptied.

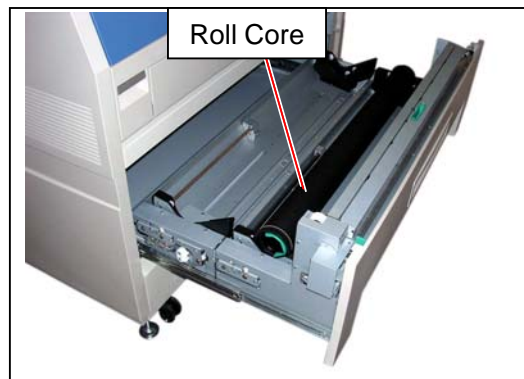
Replace the Toner Cartridge with the new one making reference to [2. 4 Replacement of Toner Cartridge] on the page 2-24.



3. 1. 2. 7 Paper Empty

This message is indicated when the roll paper in use is emptied.

Replace roll paper with the new one making reference to [2. 3 Replacement of Roll Paper] on the page 2-19.



3. 1. 2. 8 The door opened during the print

This message is indicated when the Roll Deck is opened during printing by accident.

Close the Roll Deck.

If the paper is mis-fed inside the machine, remove it.



3. 2 Call Service Errors

In case the following Error Codes for a serious failure appear in the screen;

PLEASE CALL YOUR TRAINED SERVICE PERSONNEL TO RESOLVE THE ERRORS.

No operation should be done by the customer.

Error Code	Error Indication
E - 000	Fuser Low Temp
E - 001	Fuser Over Temp
E - 002	Fuser Low Temp
E - 003	Temp Not Rise
E - 010	Motor1 Error
E - 011	Motor2 Error
E - 012	Motor3 Error
E - 020	Counter Error
E - 031	1st Error
E - 032	AC Error
E - 033	Tr Error
E - 034	Bias Error
E - 040	Cutter Error
E - 050	FPGA Error
E - 070	Dev Error

If any of the above errors appear:

1. Turn off the KIP 3100, then after an interval of 3 minutes or more turn it on.
2. If the same error code appears, turn off KIP 3100, and then after an interval of 4 minutes (for shutdown) unplug the printer from the wall outlet.
Call your service personnel.

Chapter 4

Maintenance

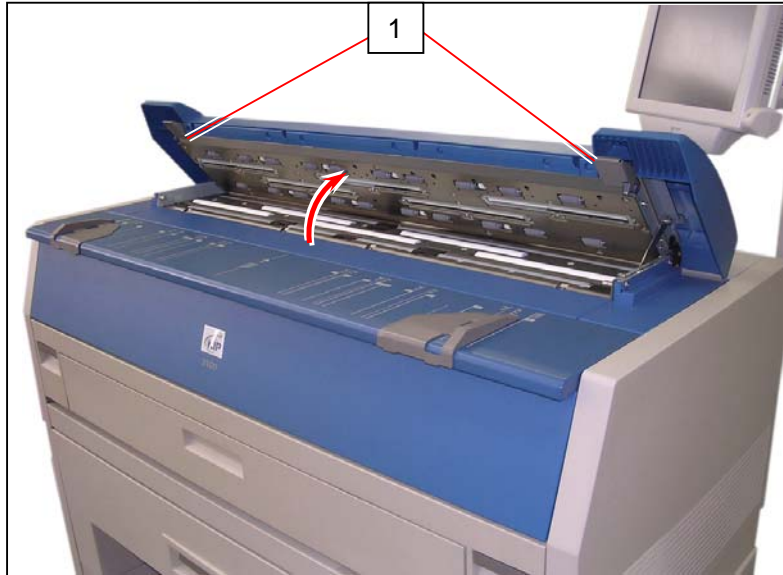
4.1	Cleaning	page
4.1.1	Scanner Unit	4-2
4.1.2	Print Engine	4-4
4.1.3	Touch Screen	4-6

4. 1 Cleaning

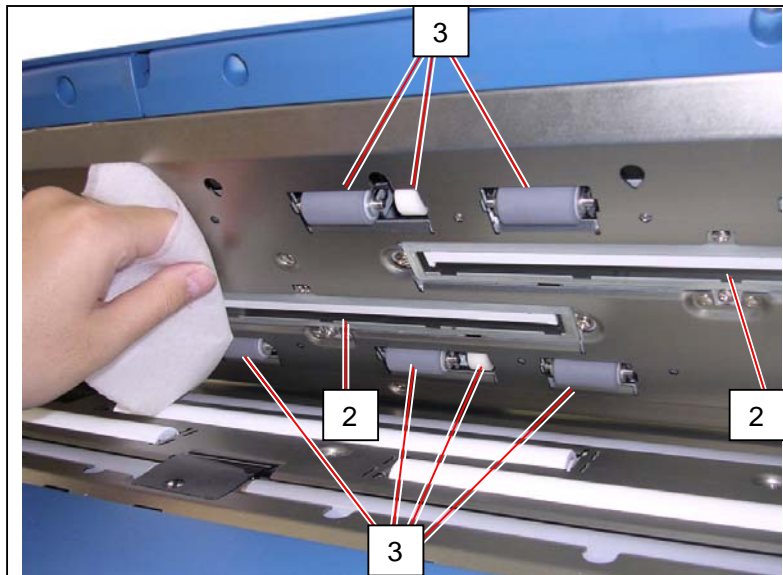
4. 1. 1 Scanner Unit

Clean each Scan Glass, Feeding Rollers and Guide Plates once a week, as the scan/copy image may become defective if these parts are dirty.

1. Turn off KIP 3100.
2. Open the Scanner Unit pulling up both Levers (1).



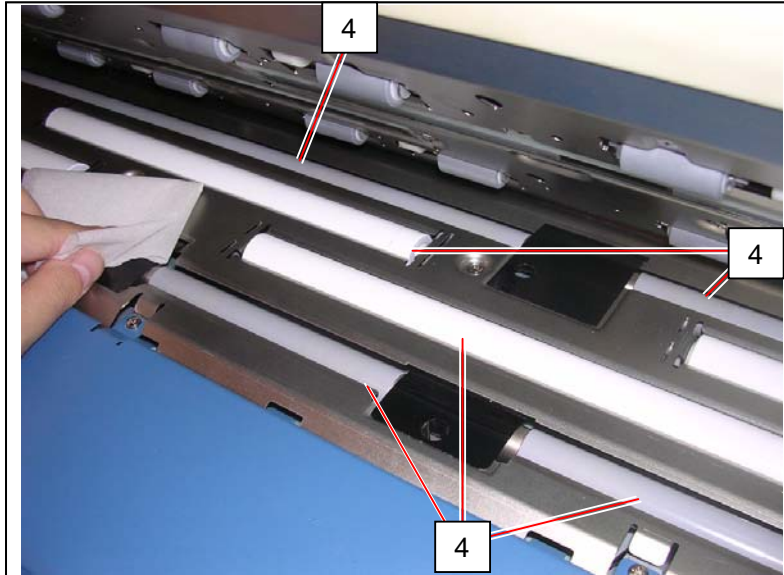
2. Wipe each Scan Glass (2), Feeding Rollers (3) and the inside surface with a soft cloth. Use equal volume mixture of water and a neutral detergent.



NOTE

Do not use organic solvent, glass cleaner and anti-static spray for the cleaning.

3. Wipe both the Feed Rollers (4) and the inside surface with a soft dry cloth.



4. Gently press Scanner Unit down and firmly close it



⚠ NOTE

Press down Scanner Unit on both sides to close it.
Do not close it by pressing only one side down.

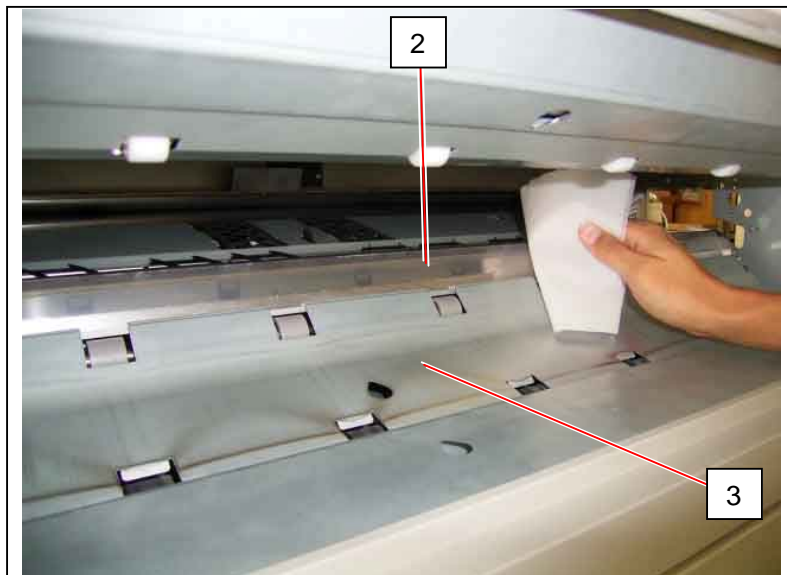
4. 1. 2 Print Engine

Clean each Guide Film and Guide Plate once a week, as the toner or paper dust may accumulate on such parts which may result in a defective print image.

1. Turn off KIP 3100.
2. Open the Engine Unit by pulling up both Engine Unit Open Levers (1).



2. Wipe each Guide Film (2) and Guide Plate (3) with a soft dry cloth to remove the toner or paper dust.

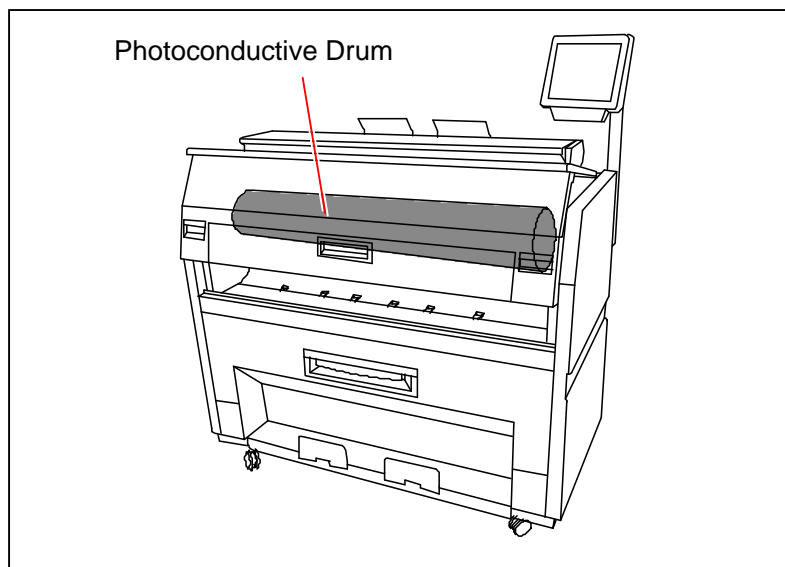


! NOTE

- (1) There is a Photoconductive Drum (large green cylinder) in the machine, which is right above the Guide Film.
You will have to replace the Drum if it is damaged, as it is a very important part in creating the print image.

Please take care of the following matters during cleaning.

- a.) Do not touch the drum.
Adhering a fingermark or sebum (oils) on the Drum may cause defective printing.
- b.) Take off such metal accessories as watch or ring.
You will have to replace the Drum if you damage it by scratching with such accessories.
- c.) Do not leave the Upper Unit open for more than 10 minutes as the Drum is very sensitive to light. (Direct sunlight is very harmful.)



- (2) Do not use water, organic solvent and alcohol for the cleaning.

3. Close the Engine Unit.



4. 1. 3 Touch Screen

Clean the Touch Screen once a week.

1. Wipe the Touch Screen with a dry cloth.



⚠ NOTE

Do not use water, alcohol, organic solvent and glass cleaner for the cleaning.