



KIP 970

User Guide

Version A.0



WIDE FORMAT COLOR PRINTER
KIP 970
Hardware Operation Guide

Ver. A.0 (Issued on July 7 2017)

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Please note that some articles, illustrations and photographs might be partially different from the actual machine because of the modification of machine and so on.

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Thank you for purchasing the KIP 970.

This Hardware Operation Guide contains functional and operational explanations for the KIP 970. Please read this Hardware Operation Guide carefully before using the Printer. Please keep this Hardware Operation Guide for future reference.

1. When this product is installed in North America.

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

FCC CAUTION

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

Note: This product has been tested and found to comply with the limits for a Class A digital equipment, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. This product 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 product 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.

This product complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this product may not cause interference, and (2) this product must accept any interference, including interference that may cause undesired operation of this product.

Le présent appareil est conforme aux la partie 15 des règles de la FCC et CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Contains FCC ID: VP8-13551

Contains IC: 7391A-13551

2. When this product is installed in Europe

This product complies with the requirements in CISPR 32 for a Class A computing equipment. Operation of this product 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 product around other electronic equipment or other precision instruments. Other equipment may be effected by electrical noise during operation.

**If the product 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.**

KIP 970 is an ENERGY STAR qualified equipment.



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 2012/19/EC of the European Parliament and the council of 24 July 2012 on waste electrical and electronic equipment (WEEE) and does not apply to countries outside of EU.



Only For EU Member States

Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäß BildscharbV vorgesehen.

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, SJ/T 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 Warning

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:



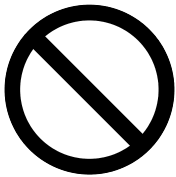
WARNING

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".



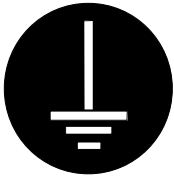
When marked with this symbol, "pay close attention to".



There are extremely hot parts inside.
Do not touch any parts, or you will be burnt.



WARNING



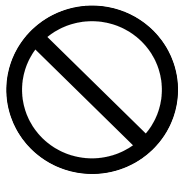
Ground the product with a correct ground source or you may be electrically shocked.



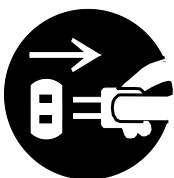
1. The both Power sources should be as follows:
208 to 240V plus 6% or minus 10%, 50/60Hz, 16A or higher
2. Use a circuit with a dedicated breaker.
3. Install the product as close to the wall outlet as possible.
4. If you wish to move the printer, please contact your service personnel.



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!**



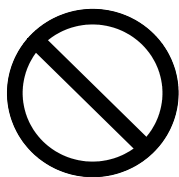
1. Do not put a flower vase, a flowerpot or any water-filled item on the product.
Spilt water could cause a fire or an electric shock.
2. If the product generates an abnormal smell or noise, turn it off and unplug it from the wall electrical outlet immediately.



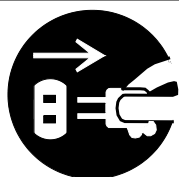
Do not throw the toner into a fire or other sources of heat, as it can explode.



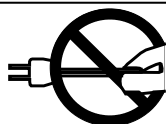
CAUTION



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.

POWER CORD INSTRUCTION

The installation of (or exchange to) a power plug which fits in the wall outlet of the installation location shall be conducted in accordance with the following:




WARNING

Select a power plug which meets the following criteria;

- The plug has a voltage and current rating appropriate for the product's rating marked on its name plate.
- The plug meets regulatory requirements for the area.
- The plug is provided with a grounding pin or terminal.

If the appropriate plug does not fit the wall outlet in the installation, the customer shall install an appropriate outlet.

Connector Type:

Configuration	Standard	Rating	Usually found in
	IEC60320:C19	20A 250V (UL) 16A 250V (IEC)	

Plug Type: Model Rating 208-240V

Configuration	Standard	Rating	Usually found in
	NEMA6-20	20A 250V	North America (UL Listed)
	CEE7/7	16A 250V	European countries
	KS C 8305	16A 250V	Korea
	AS/NZS 3112	16A 250V	Australia New Zealand
	GB1002 GB2099.1	16A 250V	China
	IRAM 2073	16A 250V	Argentina

Cord Type

Standard	Rating	Usually found in
SJT 3X12AWG Long <4.5m	20A 250V	North America (UL Listed)
HO5VV-F 3X1.5mm ²	16A 250V	European countries Argentina
RVV 3X1.5mm ²	16A 250V	China

Chapter 1

Introduction

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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.
208V - 240V plus 6% or minus 10%, 50/60Hz, 16A 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.



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.



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

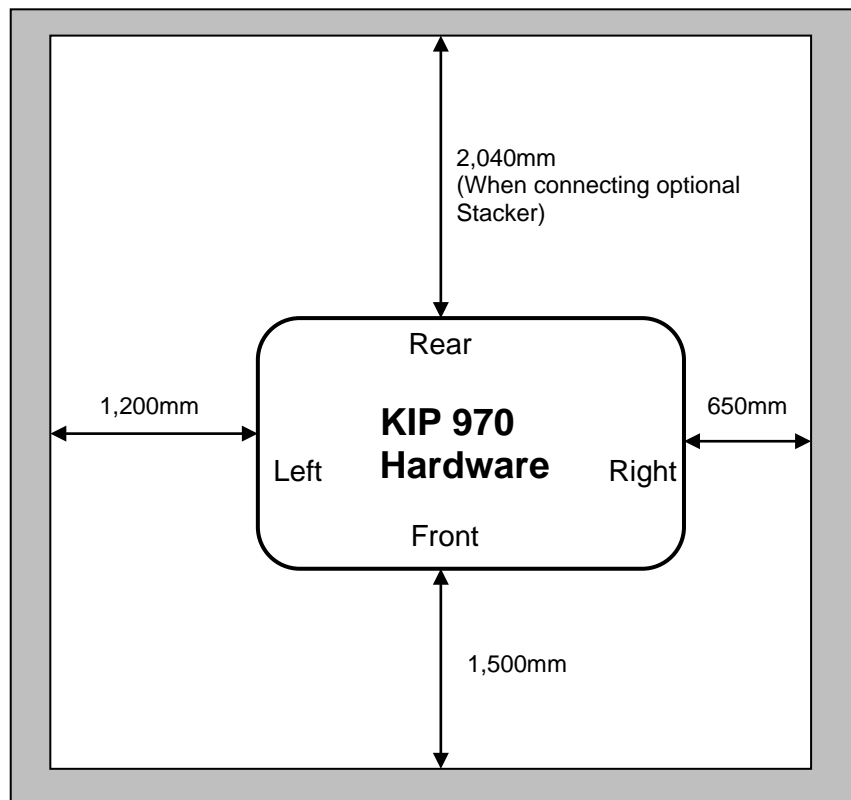
The site temperature range = 10 to 30 degrees Centigrade, with the humidity between 15% to 80% RH. (NON-CONDENSING)

Keep the printer away from water sources, boilers, humidifiers, refrigerators or kerosene (oil) stove.

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 may be illegal to duplicate or copy certain types of originals and you may be punished by local or regional laws, if copies are made of these types of originals.

Please be aware of your local or regional laws and which originals they forbid you to duplicate.

Some Examples:

[Originals prohibited from copying by the law(s)]

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

[Special items which require your attention]

1. The government issues warnings if you are 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 copy originals as government issued passports, public or private issued licenses, automobile inspection certification, ID and tickets passes or meals.

[Originals protected by the copyright]

It is prohibited to copy originals such as books, music, paintings, printed copies, maps, drawings, movie posters and pictures which are protected by the copyright laws.

Please see your local or regional laws.

1.3 Features

- (1) KIP 970 is an Electro Photographic full color LED printer.
- (2) Widths and lengths supported are;
 - Max. width : 914mm (36")
 - Min. width : 279.4mm (11")
 - Max. length : 6,000mm (in case of A0/36")
 - Min. length : 210mm (8.5")
- (3) 600dpi LED print head as well as advanced KIP Image Process System achieve the highest quality images.
- (4) Use of Transfer Belt completely divides the toner transfer process into 2 different steps, such as transference of toner image from Drum to Transfer Belt and then Transfer Belt to printing media. Absence of printing media in color registration step highly stabilizes the color image quality.
- (5) KIP 970 is able to 8.3 (D) / 7.8 (A0) prints/minute (160mm/sec) in color printing and 205mm/sec in monochrome modes.
Production speed is 120mm/s when thick media is used.
- (6) Use of CMYK dry toner allows for printing a color image directly on the plain paper or /bond. Prints are already ready for quick use right after the ejection from the printer, with high durability against UV and water.
- (7) Easy access to the front USB port allows for quick print by easy touch panel operation.
- (8) 12" multi-touch panel allows for tablet-like operation and image viewing.
- (9) Use of optional hardware finisher devices helps handling of the finished prints. Available optional finisher are;
 - Online Auto Stacker
 - Online Folder

1. 4 Specifications

Subject	Specification												
Model	KIP 970												
Type	Console type full color printer												
Printing method	LED Array Electro Photography												
Color	CMYK												
Photoconductor	Organic Photoconductive Drum												
Print speed	205mm/sec : Monochrome only (less than 75g/m ² (20lb)) 160mm/sec : Color and monochrome 8.3/min (E size), 16/min (D size Landscape) 7.8/min (A0), 15.2/min (A1 Landscape) 120mm/sec : Heavy media (90g/m ² (24lb) or more)												
Exposure method	Multi-Level (9 levels) LED Print Head												
Resolution	600dpi x 1800dpi												
Print width	Maximum : 914mm (36 inches) Minimum : 279.4mm (11 inches)												
Print length	Maximum : <table border="1"><tr><td>Plain Paper / Bond</td><td>5x standard portrait</td><td>6000mm in case of A0/36"</td></tr><tr><td>Tracing Paper / Vellum</td><td>1x standard portrait</td><td></td></tr><tr><td>Film</td><td>1x standard portrait</td><td></td></tr><tr><td>Glossy Paper</td><td>1x standard portrait</td><td></td></tr></table> Minimum : 210mm (8.5 inches) NOTE : If the print is longer than the above specification, KIP does not guarantee image quality or the reliability of media feeding system.	Plain Paper / Bond	5x standard portrait	6000mm in case of A0/36"	Tracing Paper / Vellum	1x standard portrait		Film	1x standard portrait		Glossy Paper	1x standard portrait	
Plain Paper / Bond	5x standard portrait	6000mm in case of A0/36"											
Tracing Paper / Vellum	1x standard portrait												
Film	1x standard portrait												
Glossy Paper	1x standard portrait												
Warm up time	Shorter than 4 minutes (At 23 degrees centigrade, 60% RH and 230V)												
First print time	Shorter than 30 seconds (D size Landscape / A1 Landscape) (Auto Density Adjust OFF)												
Fusing method	Heat roller fusing												
Development	Contact type mono component non-magnetic development system (Initial toner is unnecessary. One toner cartridge contains 1.5kg.)												
Drum charging	Corona												
Primary/Secondary Transfer	Transfer roller												
Separation	Electrostatic separation (AC)												
Media feeding method	Automatic (4 rolls) and manual												
Rating power	208 to 240V (+6% to -10%), 30A (16A+14A) and 50/60Hz												
Interface	Ethernet 10BASE-T, 100 BASE –TX, 1000 BASE-T USB 2.0 / 3.0 (5VDC max) Serial Port (RS-232C)												
Power consumption	230V, 50/60Hz Printing xxx kW (Average) Warm up xxx kW Ready xxx W (Average) Cold Sleep x W												
Acoustic noise	Less than 65dB (Printing) NOTE : Impact noise such as cutting sound is excluded. Less than 60dB (Ready) Der höchste Schalldruckpegel gemäß EN ISO 7779 beträgt 70dB(A) oder weniger.												
Ozone	Less than 0.05ppm (Average of 8 hours)												

Subject	Specification
Dimensions	1,500mm (W) x 1,080mm (D) x 1,220mm (H) NOTE : Touch panel is not included.
Weight	About 550kg (1147lb)
Media	Bond/Plain paper -64 to 75 g/m ² (18lb to 20lb) / monochrome : 205mm /sec. -64 to 90 g/m ² (18lb to 24lb) / Color and monochrome : 160mm /sec. -90 to 150g/m ² (24lb to 40lb) / Heavy media is used : 120mm / sec. Gloss -xxx g/m ² (xx lb)
Environmental condition	Standard Environment : 23°C and 60% Temperature — 10 to 30 degrees centigrade Humidity — 15 to 80% RH
Storage condition of consumables	Print media — Wrap the media surely to shut out the humidity. Toner — Keep the toner cartridge away from the direct sunlight, and store it in the condition of 0 - 35 °C and 10 - 85% RH.
Hardware option	- Online Auto Stacker - Online Folder

NOTE

These specifications may be changed without notice.

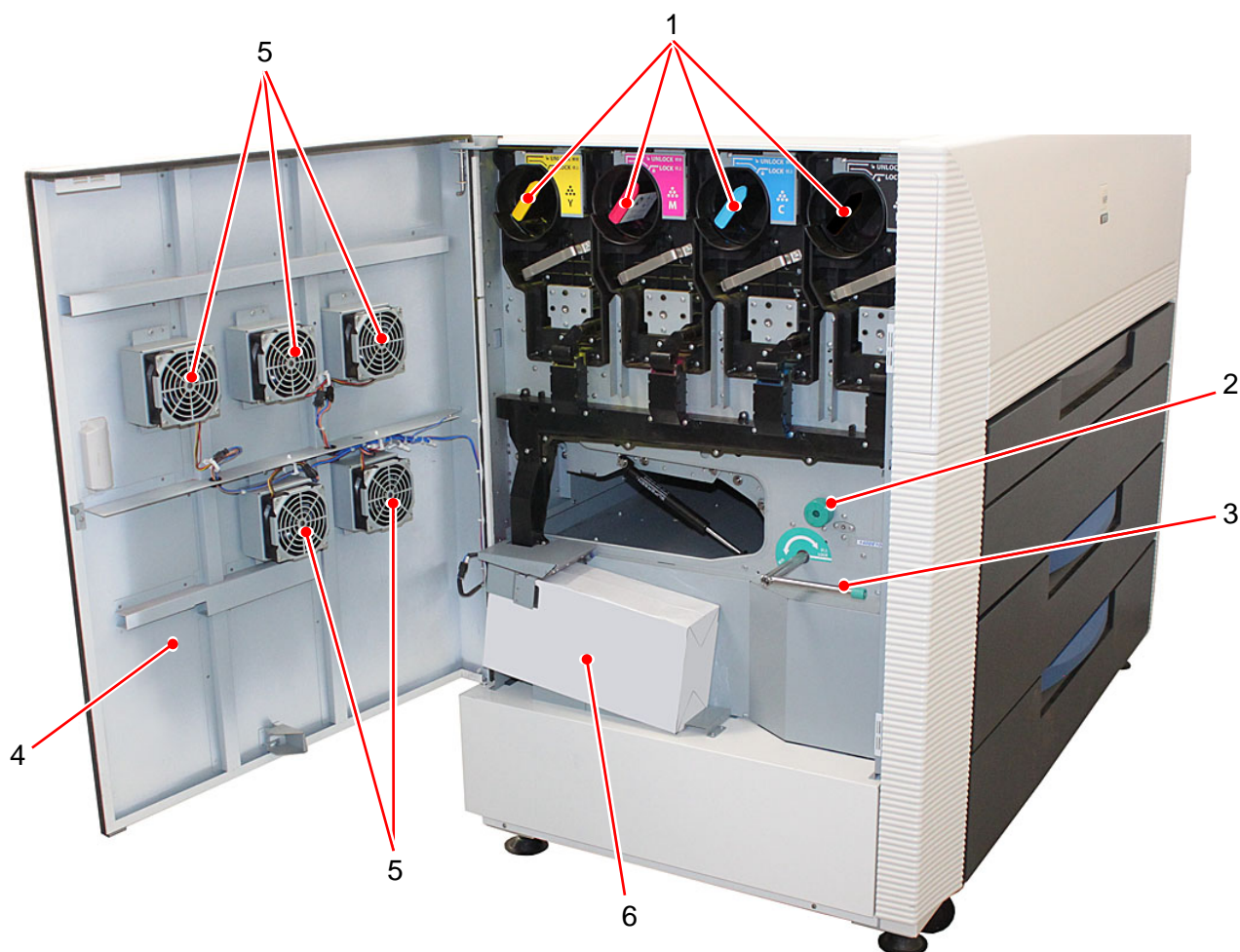
1.5 Appearance

1.5.1 Front view



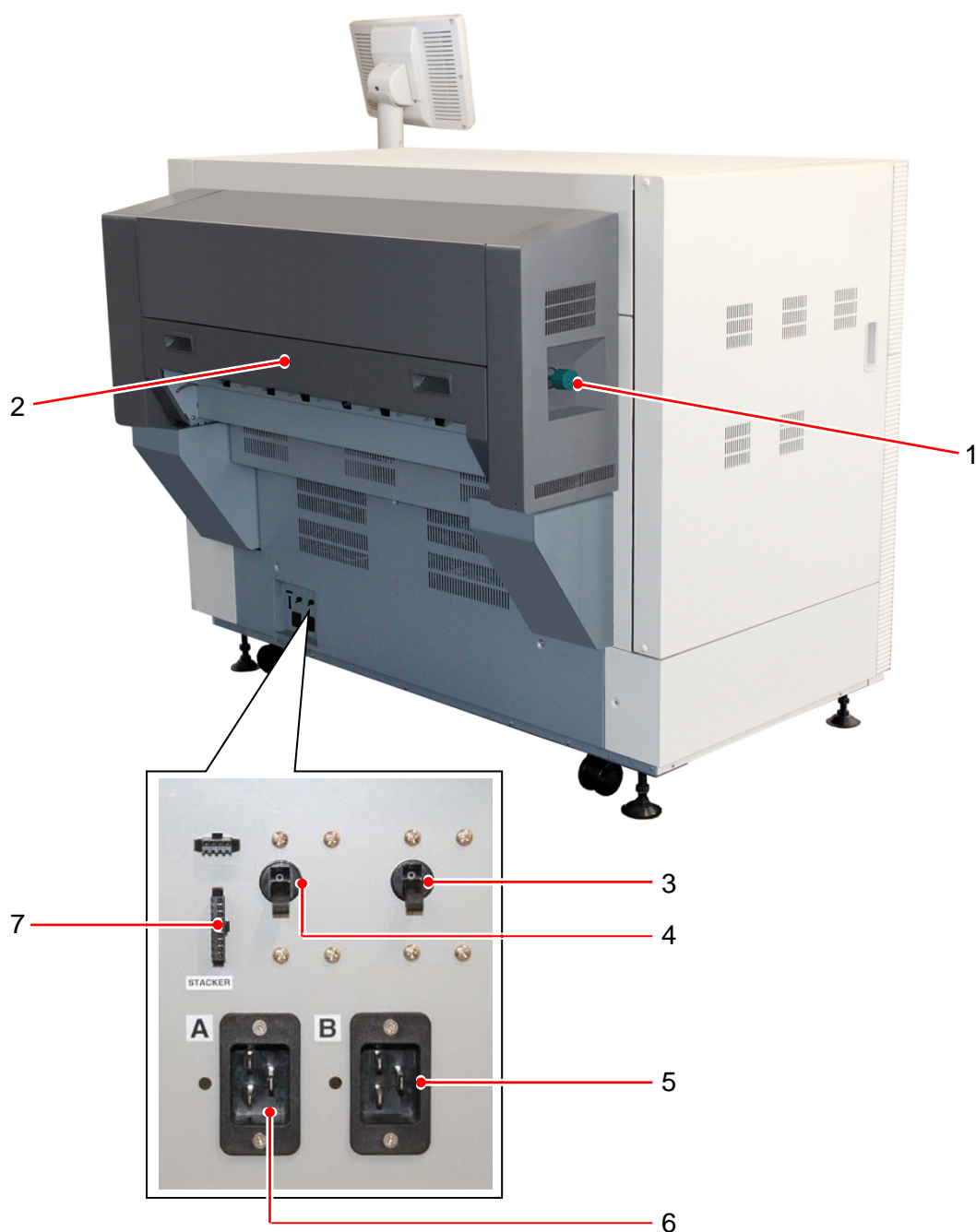
	Name of part	Function																								
1	User Interface	This is a Touch Screen, and many kinds of user operation are available. PLEASE DO NOT push the LCD area too strong.																								
2	USB Port (USB 2.0)	Your USB flash memory storage can be installed here. 5VDC max.																								
3	Power Switch	Turns on/off the Printer.																								
4	Bypass Feeder	Feed a cut sheet paper from the Bypass Feeder.																								
5	Roll Deck	Roll media can be loaded here.																								
6	Status Indicator	LED indicator indicates the following printer status. <table><tr><th>Color</th><th>Condition</th><th>Status</th></tr><tr><td>Green</td><td>Light</td><td>Ready, Printing</td></tr><tr><td>Green</td><td>Blink</td><td>Warming up.</td></tr><tr><td>Orange</td><td>Light</td><td>Operator Call Error</td></tr><tr><td>Red</td><td>Light</td><td>Service Call Error</td></tr><tr><td>Blue</td><td>Light</td><td>Warm sleep</td></tr><tr><td>Blue</td><td>Light</td><td>Cold sleep</td></tr><tr><td>light purple</td><td>Light</td><td>When printer is power-off and print controller is still power on.</td></tr></table>	Color	Condition	Status	Green	Light	Ready, Printing	Green	Blink	Warming up.	Orange	Light	Operator Call Error	Red	Light	Service Call Error	Blue	Light	Warm sleep	Blue	Light	Cold sleep	light purple	Light	When printer is power-off and print controller is still power on.
Color	Condition	Status																								
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Blue	Light	Warm sleep																								
Blue	Light	Cold sleep																								
light purple	Light	When printer is power-off and print controller is still power on.																								

1. 5. 2 Left side view



	Name of part	Function
1	Toner Cartridge	4 Toner Cartridges (cyan, magenta, yellow and black) supplies the toner little by little.
2	Media Feeding Knob	When the paper jam occurs, the media is fed by rotating this knob.
3	Unlock Lever (for the Feeder Unit)	When the paper jam occurs, the Feeder Unit is lowered by this lever to remove the jammed media.
4	Left Side Cover	Open here to replace the Toner Cartridge.
5	Exhaust Fan	It is used for exhausting air inside the machine.
6	Waste Toner Box	Collects the wasted toner.

1. 5. 3 Rear view

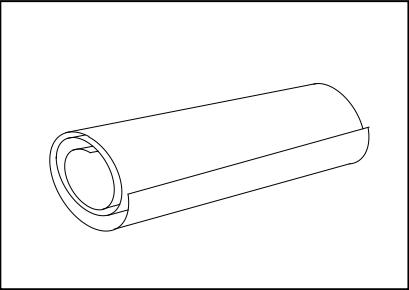
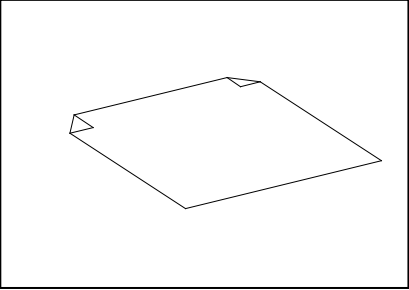
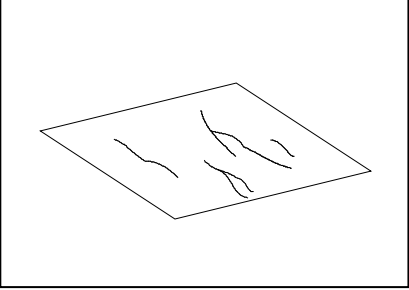
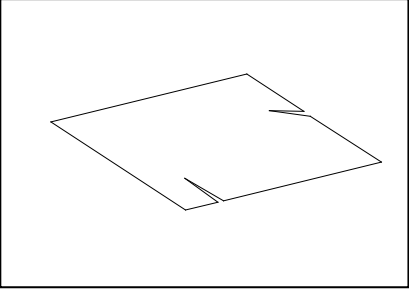
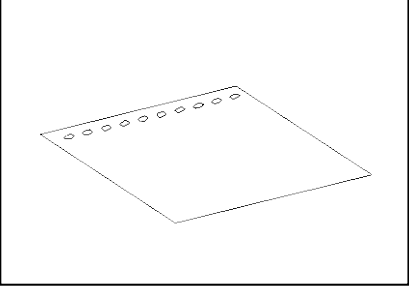


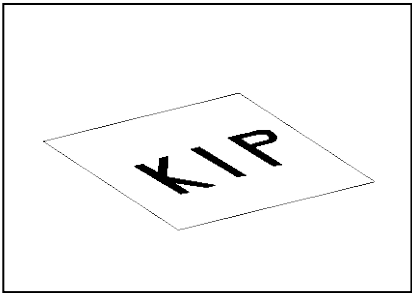
	Name of part	Function
1	Fuser Knob	Rotate this knob when removing the misfed paper in the Fuser Unit.
2	Fuser Cover	Prints come from the opening on this. Open the Fuser Cover when you remove the paper misfed inside the Fuser Unit.
3	Breaker 1	It is possible to shut off supplying the AC power.
4	Breaker 2	It is possible to shut off supplying the AC power.
5	Inlet Socket 1 (14A)	Connect the Power Cord here.
6	Inlet Socket 2 (16A)	Connect the Power Cord here.
7	Stacker Port	For a dedicated Auto Stacker for the Printer (DC24V 2A)

1. 6 Specifications for the Printing Paper

1. 6. 1 Papers not available to use

Do not use the following kinds of printing paper. Doing so 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 the paper with staple, or do not use such conductive paper as aluminium foil and carbon paper.

The above may result in a danger of 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 excess curl.
- (3) It will become a cause for paper mis-feed, defective print image or paper creasing 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) Do not use papers with unpacked (exposed in high / low temperature & humidity) in a long period. Such papers may result in mis-feed, defective image or paper creasing.
- (6) Tracing paper exposed to air over a long period tends to cause a defective printing. Removing one round on the surface of the tracing roll paper from the beginning is recommended.
Refer to [2.3 Replacing Roll Media].

1. 6. 2 Keeping the paper in the custody

Keep the paper in the custody taking care of the following matters.

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. If you will keep the paper in the custody, which you have already unpacked, put it into the polyethylene bag to avoid the humidity.

1. 6. 3 Treatment against environmental condition

Take a necessary treatment according to the environmental condition as shown below.

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 print, and keep it in a polyethylene bag.
40%	"Void of image" occurs when you print with tracing paper.	If you will not make print soon, remove the tracing paper from the machine and keep it in a polyethylene bag.
70%		Remove the paper from the machine after everyday use, and keep it in a polyethylene bag.
↓ High	"Void of image" occurs when you print with plain paper and tracing paper.	If you will not make print soon, remove the tracing paper from the machine and keep it in a polyethylene bag.
	"Void of image", "crease of paper" and other problems occurs when you print with plain paper and tracing paper.	Remove the paper from the machine right after the completion of print, and keep it in a polyethylene bag.

! NOTE

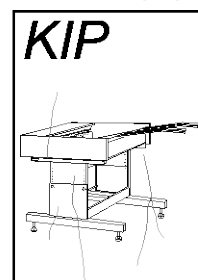
- (1) If the humidity is 65% or higher, recommend dehumidifying the paper using a dehumidifier.
- (2) "Void of image" and "crease of paper" will occur in case of extremely high or low humidity.

Normal Print



If the media is humidified;

Crease of paper

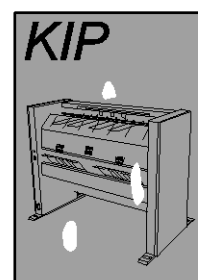


Normal Print



If the media is humidified;

Loss of image



Chapter 2

Basic Operations

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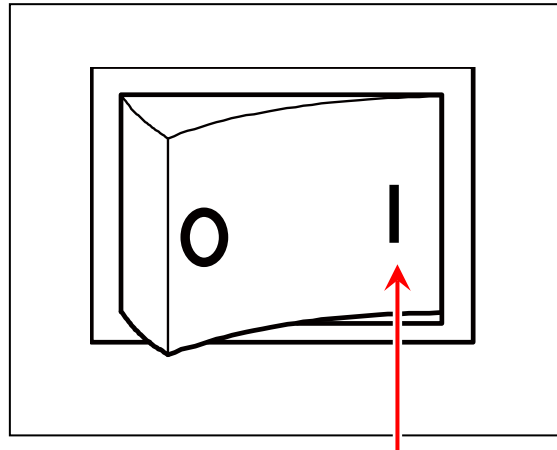
2. 1 Turning on the Printer

1. Plug the each Power Cables to an exclusive wall outlet.

WARNING

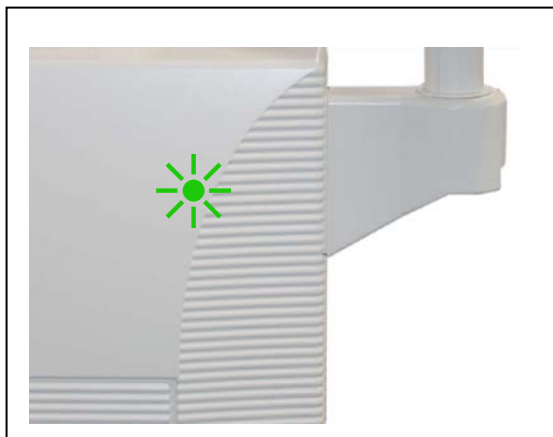
Please confirm the each outlet satisfies the following condition before plugging the Printer into.
208-240V (+6% to -10%), 16A, and 50/60Hz

2. Press “|” side of the Power Switch.



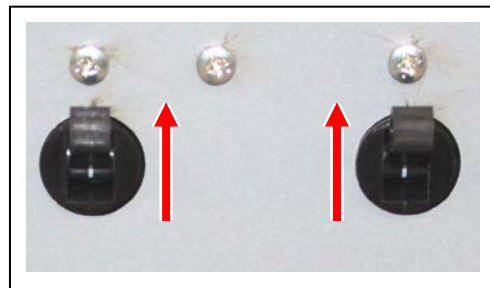
Press this side

3. The status indicator on the upper right of the printer is blinking and the warming-up is started.

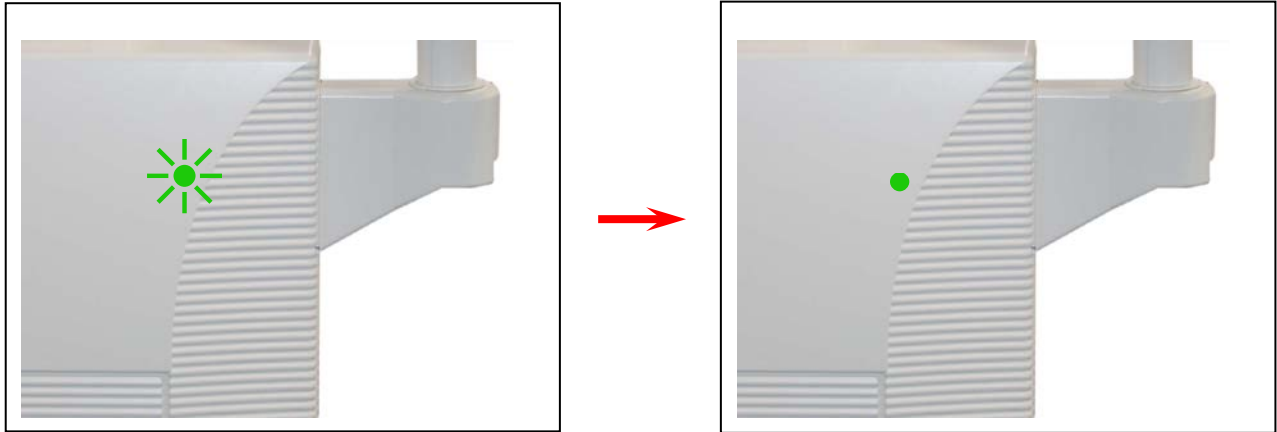


NOTE

The machine does not operate at all If the circuit breaker is turned off.
Flip up the circuit breaker switch to turn on the power supply.

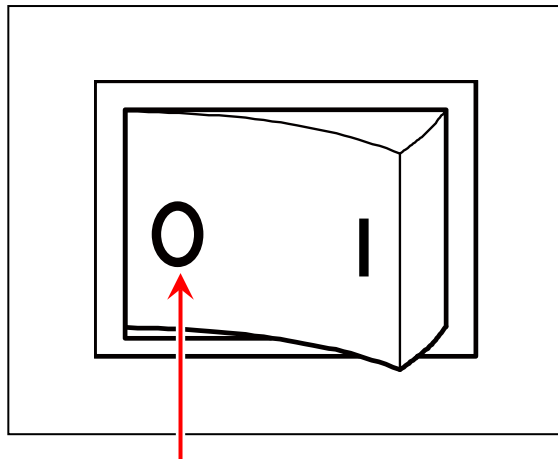


4. The Printer will get ready about 5 minutes after turning on.
The Status Indicator stops blinking and lights green when ready.
Make a print from outer devices.



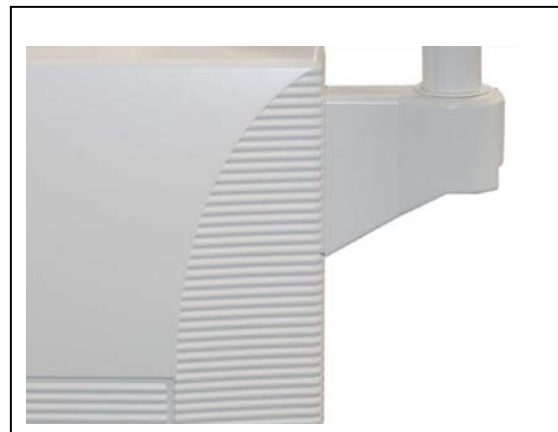
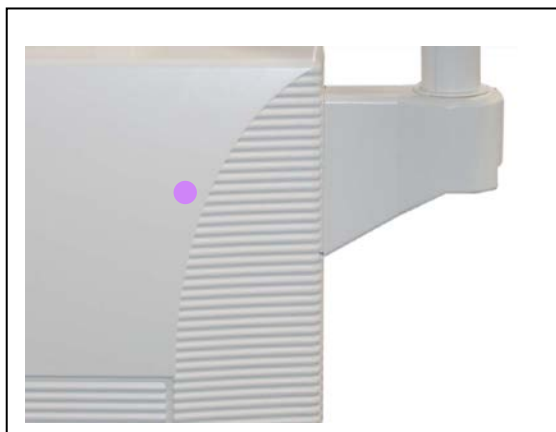
2. 2 Turning off the Printer

1. Press “O” side of the Power Switch.



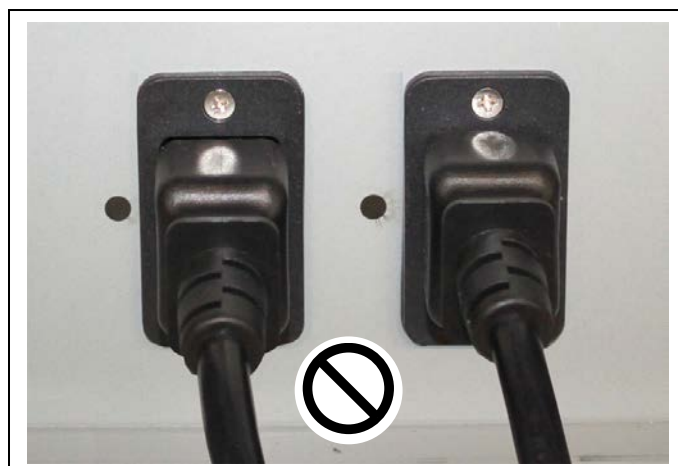
Press this side

2. The Status Indicator light purple while the embedded controller unit is shutting down.
It will turn off in few minutes.

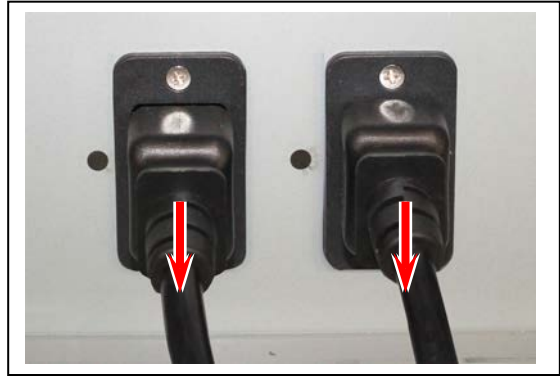
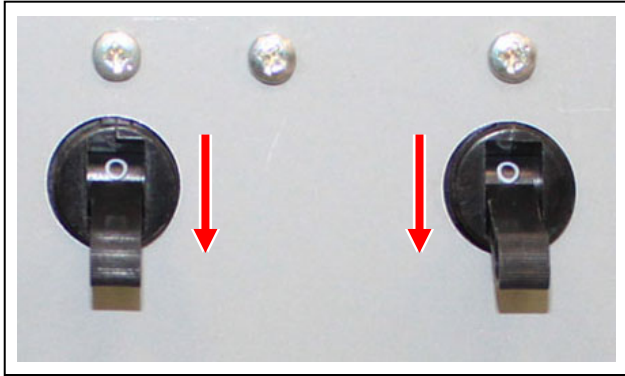


! NOTE

The controller unit starts shutdown process after turning off the Printer, and it will take about 1 minutes until complete shut down. Do not unplug the Printer from the outlet for about 1 minutes after turning off therefore. The controller unit may be broken if the Printer is unplugged before the completion of shut down process.



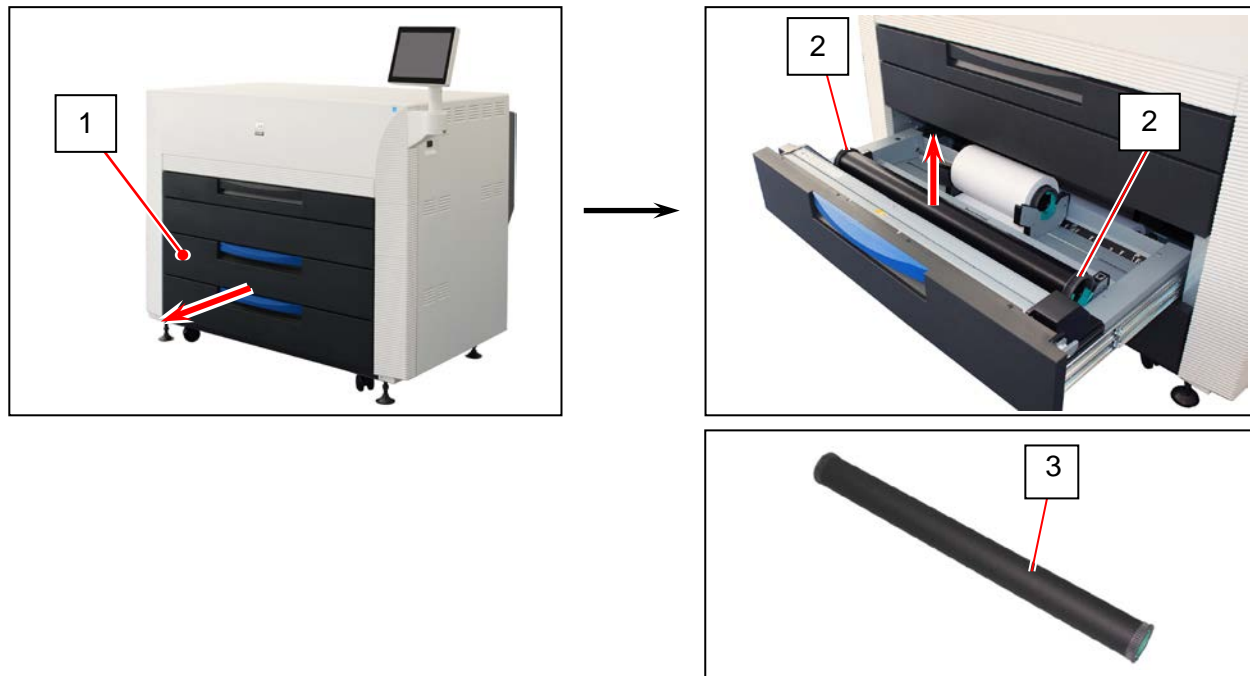
3. If you completely shut the power supply due to a long vacation or the machine's transport, turn off the circuit breaker and then remove the power cable from the machine.



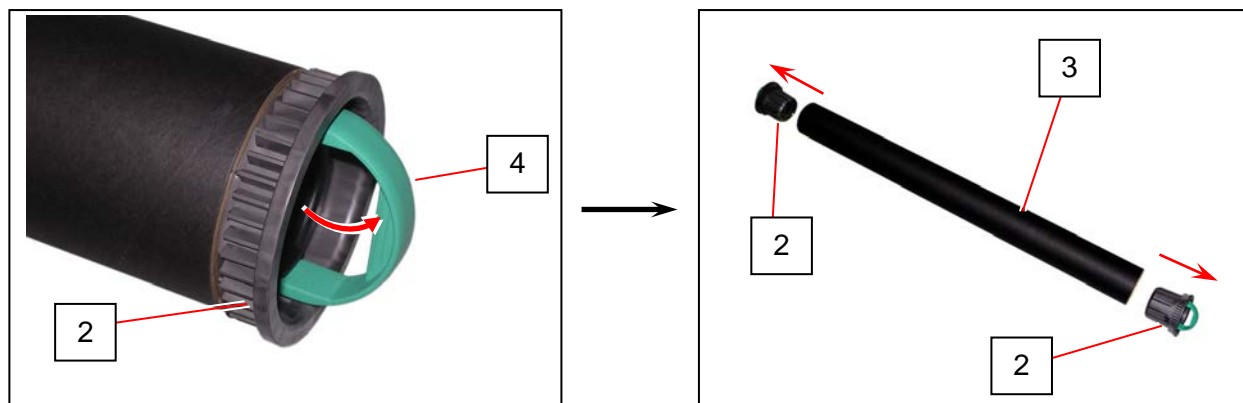
2. 3 Replacing the Roll Media

UI displays a sign of “Roll Replacement” when the used roll media gets empty.
Follow the later procedure to load a new roll media.

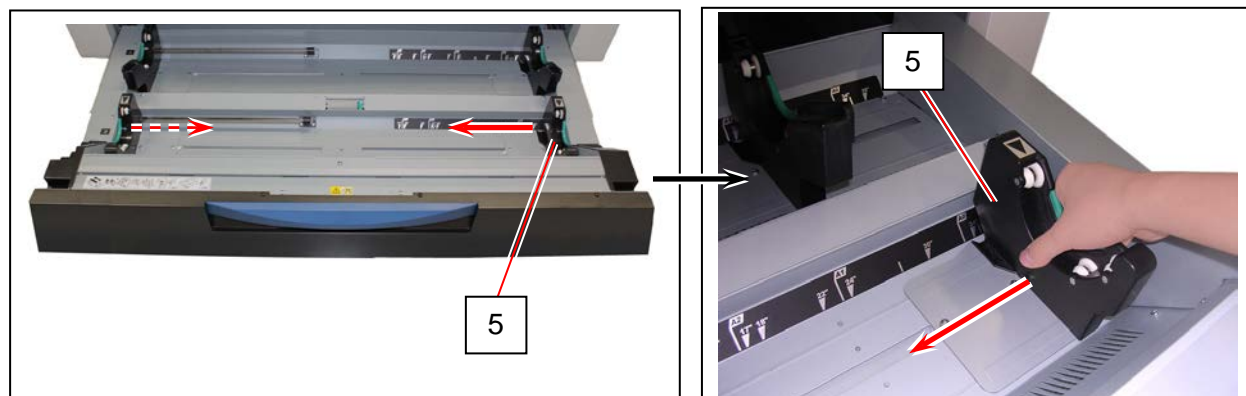
1. Open the Roll Deck (1) that has empty roll media.
With catching the Flanges (2) on both sides, lift and remove the core of roll (3).



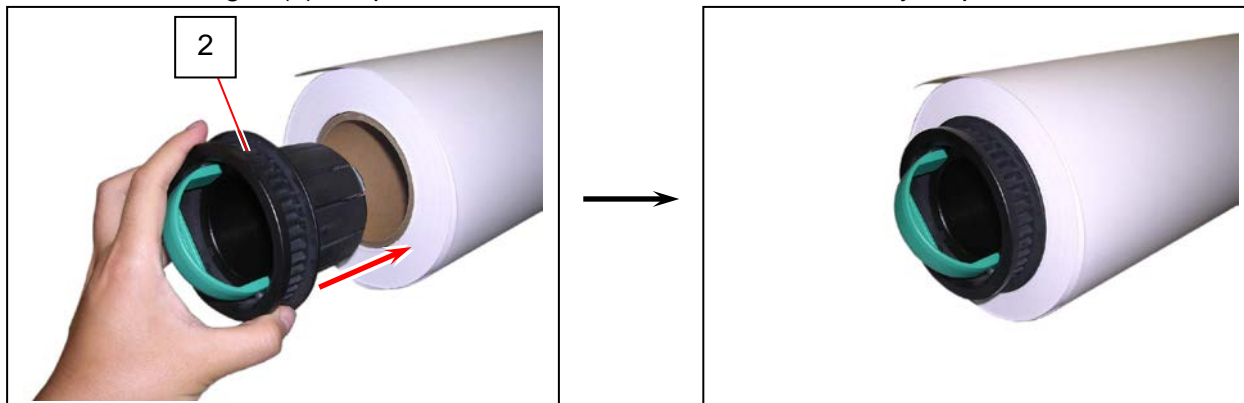
2. Pull the green lever (4) on each Flange (2), which releases the core of roll (3). Remove both Flanges (2).



3. With sliding the Slide Guides (5) left and right by hand, align them to the width guide lines that match the width of actual media to be loaded. (Sliding either left or right one of 2 Side Guides also moves the other one by the same amount.)



4. Insert both Flanges (2) deep into the core of new roll media until they stop.

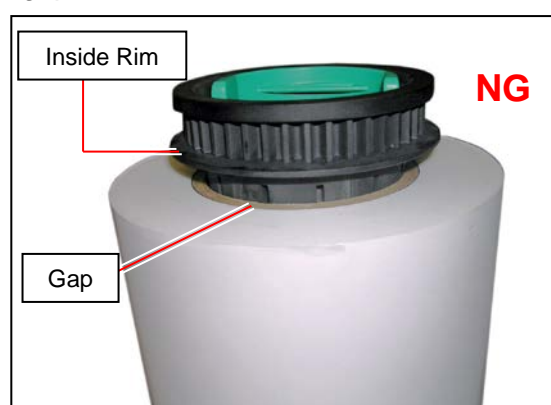


! NOTE

(1) Insert Flanges (2) deep enough into the core of roll media until their inside rims surely touch the side face of roll media with having no gap.

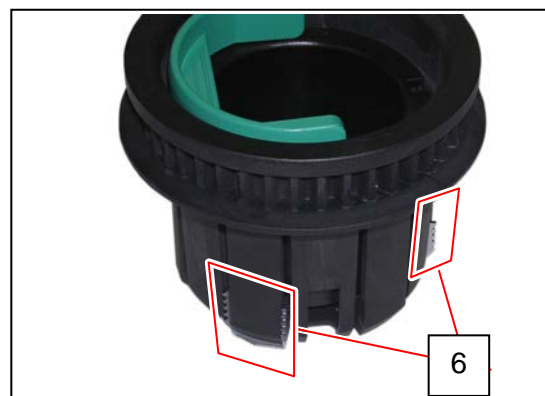


Correct: Fully inserted

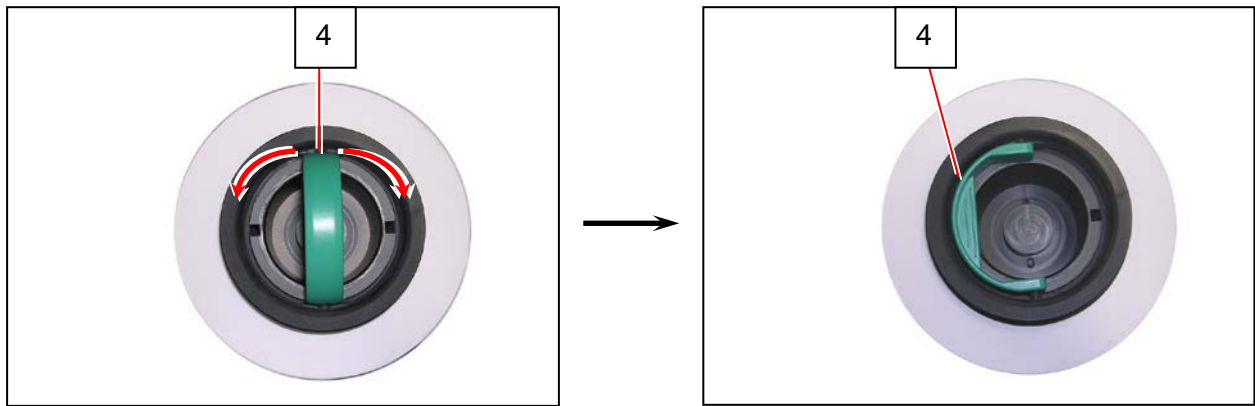


Incorrect: There is gap

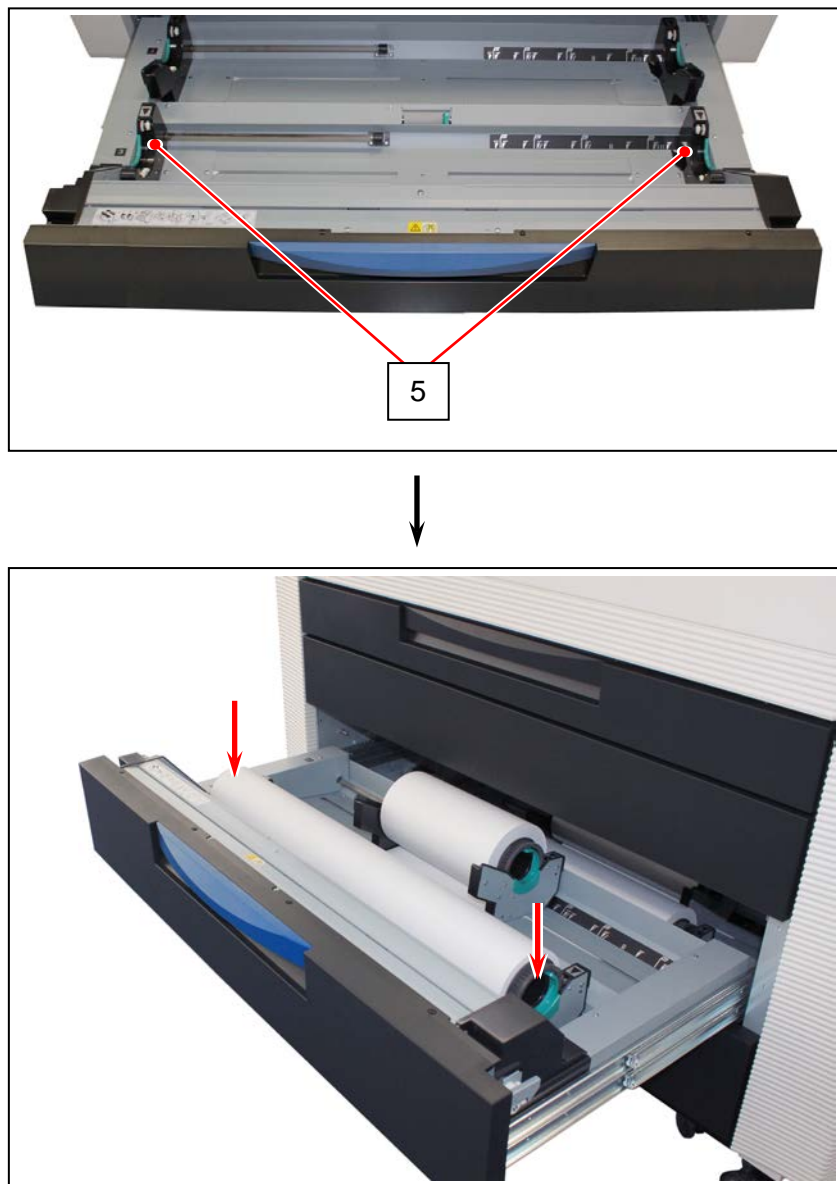
(2) Be careful not to be harmed by the saw-toothed edge (6) when handling the Flanges (2).



5. Turn down the lever (4) in either way until they completely stop, which lets the Flange to surely hold the roll media.



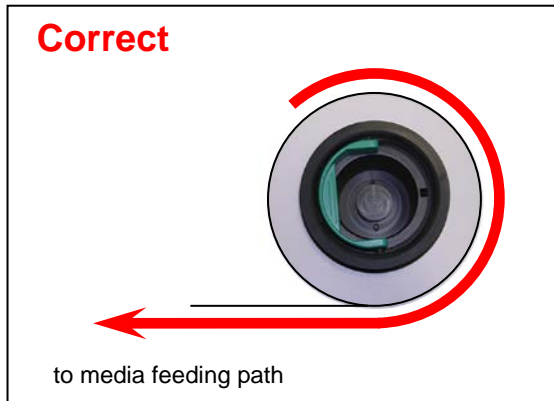
6. Fit both Flanges correctly into both Slide Guides (5) in the roll deck.



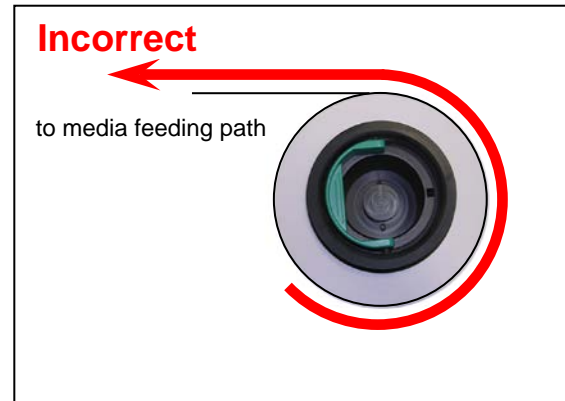
(See next page for more explanation)

! NOTE

- (1) Note the position of leading edge. It should be on the bottom side when directed to the media feeding path.

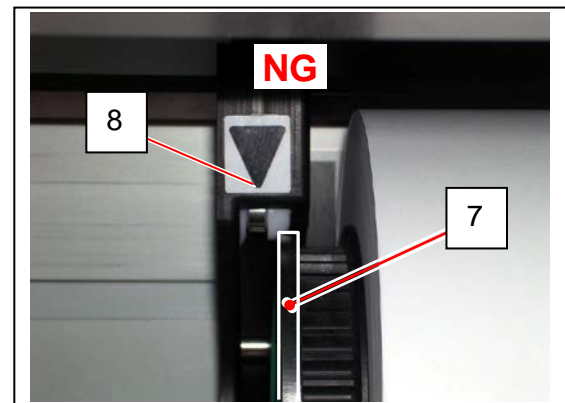
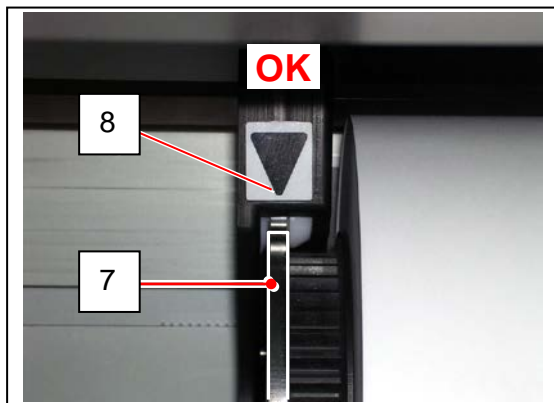


Correct: Leading edge is on bottom side

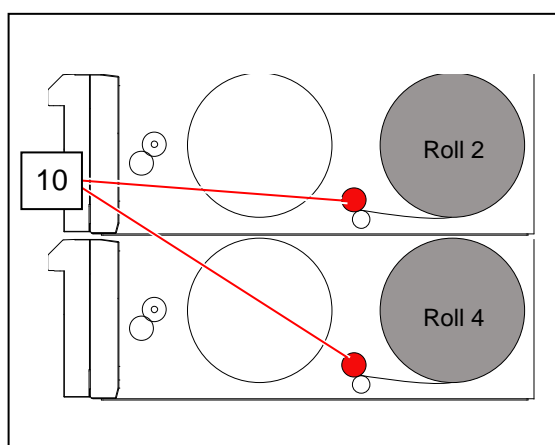
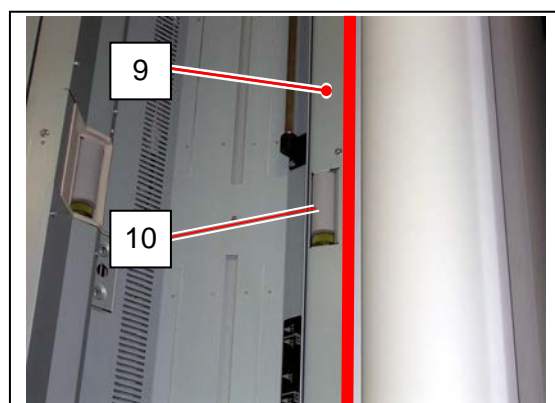
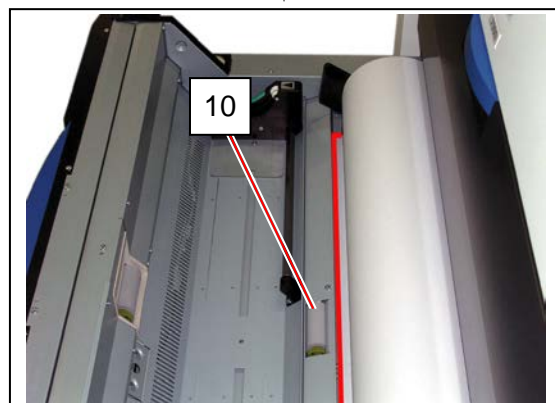
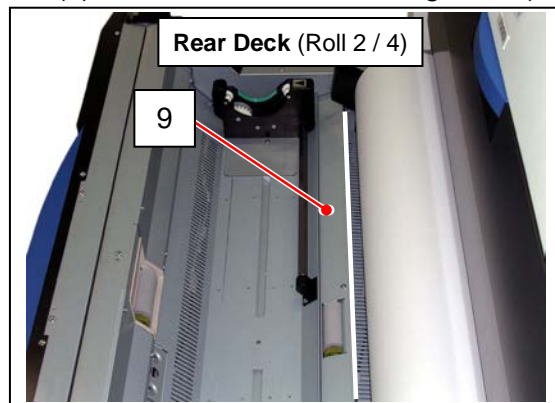
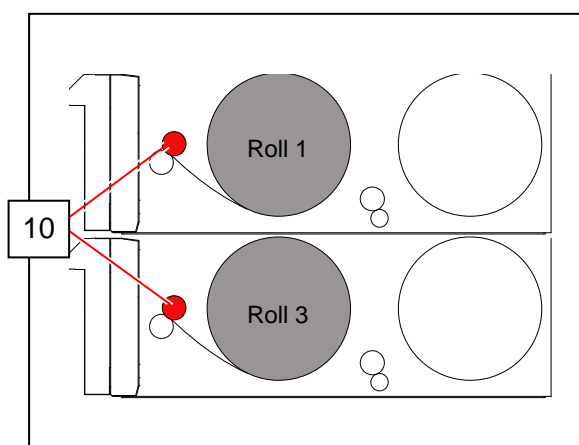
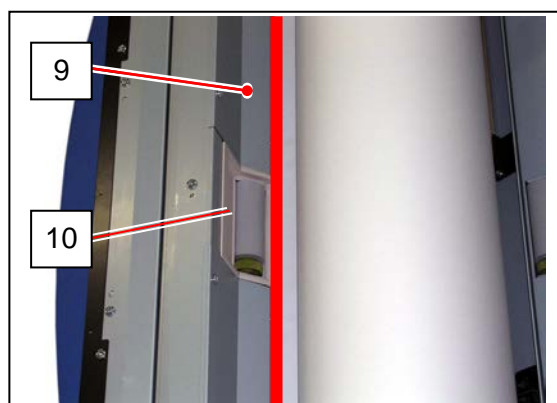
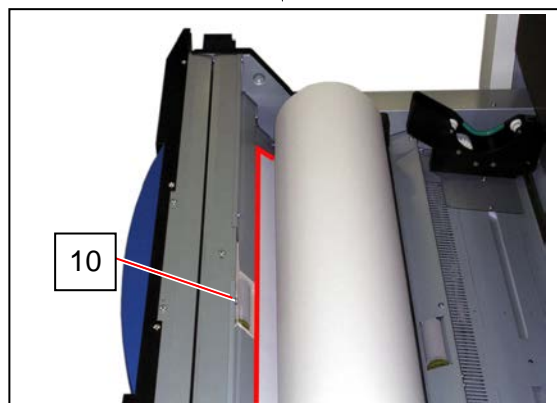
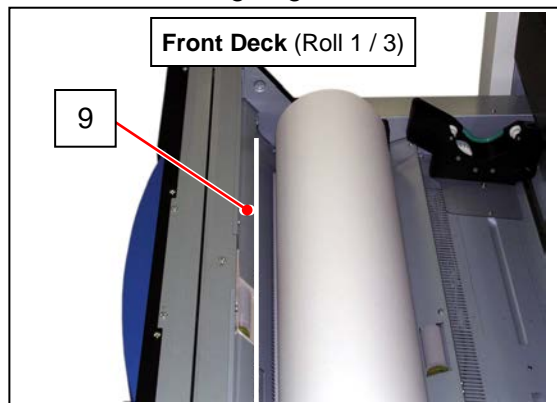


Incorrect: Leading edge is on top side

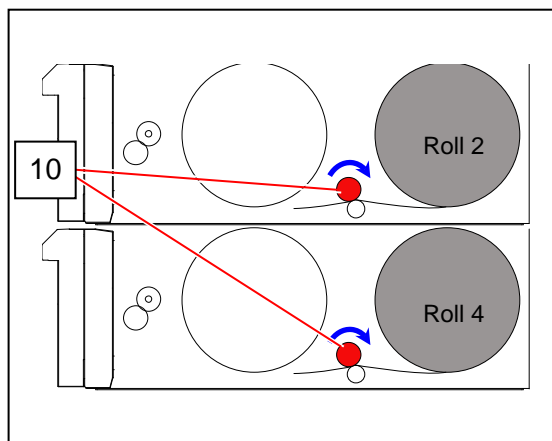
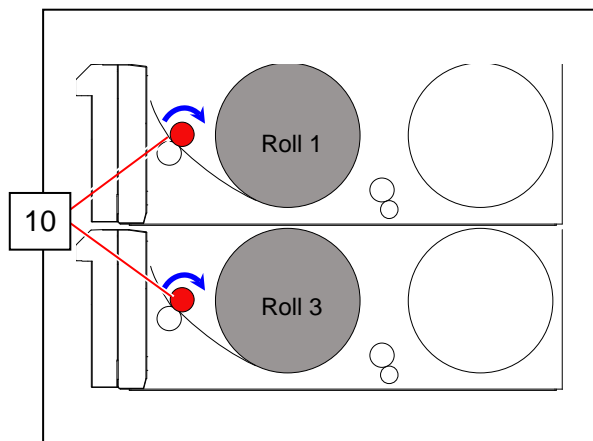
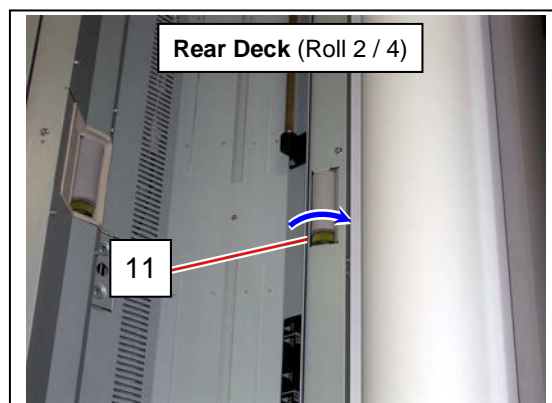
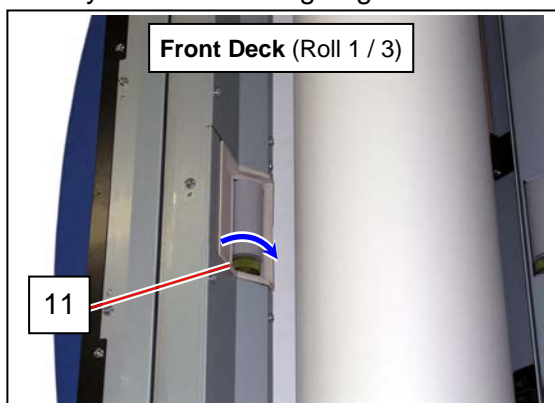
- (2) The outside rim (7) of the Flange must be aligned with the tip of black triangle (8) for correct gear engagement. If not, the Flange may come off from correct position and may result in incorrect media feeding.



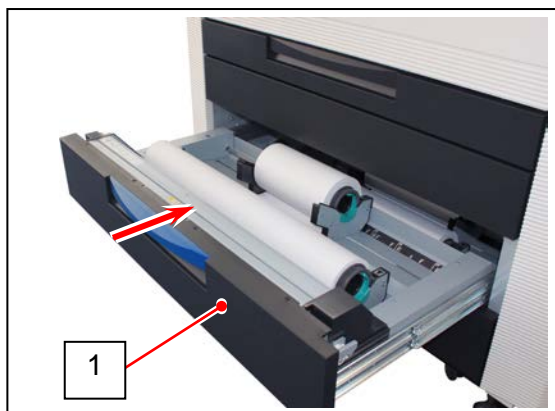
7. Insert the leading edge into a slit under the Guide Plate (9) until it touches the feeding roller (10).



8. Rotate the small roller (11) in the direction of arrow by hand for allowing the feeding roller to surely hold the leading edge.



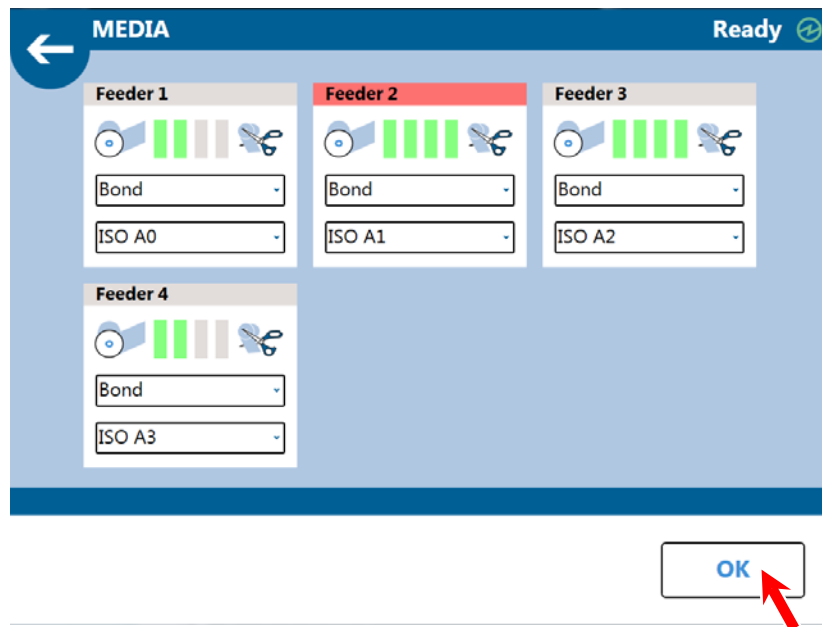
9. Push the Roll Deck (1) back in.



! NOTE

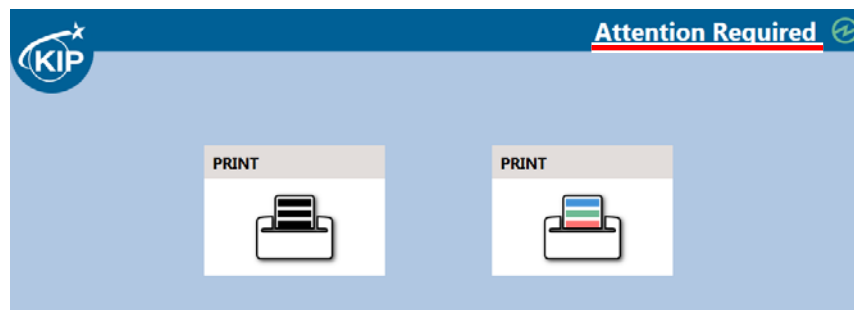
- (1) Surely close the Roll Deck until it is locked. A paper jam may occur if not locked perfectly.
- (2) Be careful not to catch your finger in between Roll Deck drawers.

10. Define the media information (media type and width) with using the touch screen.
Press [OK].



NOTE

- (1) Incorrect settings would lead unexpected print results (fusing defect, improper image quality).
- (2) If no roll media is set properly or is installed in the deck, the printer status does not get "Ready" and the touch screen shows "Attention Required". Follow the instruction in this section to set a roll media properly, and the status will get "Ready". If still "Attention Required" remains, contact your local service representative.

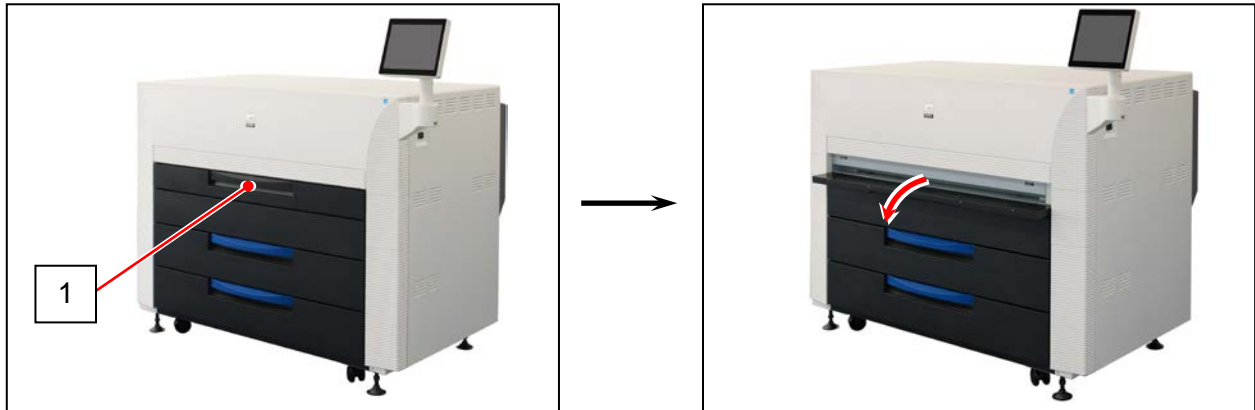


Reference

The printer will take a programmed internal automatic cleaning process when a roll media is switched to another. Please wait until the cleaning finishes and the status gets "Ready".

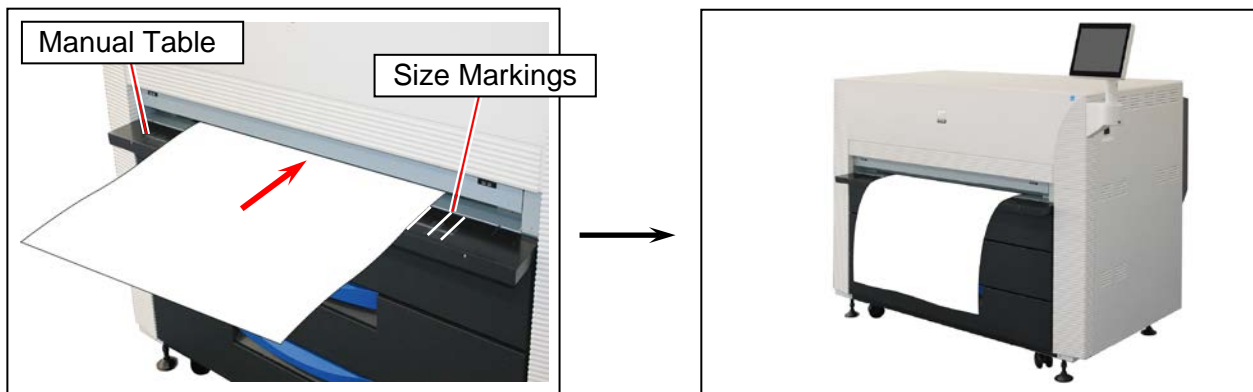
2. 4 Placing Cut Sheet Media

1. Open Manual Table (1).



2. There are several size markings on Manual Table which indicate possible feed positions. Place a cut sheet in a required size on the table between its concerning size markings then insert it into Manual Feeder.

When the leading edge touches the feeding roller, the machine automatically carries and sets the sheet at the proper position.



! NOTE

- (1) As a curly cut sheet will cause a mis-feed, straighten the sheet as far as possible before printing. And set the sheet in “curl down” direction as a mis-feed can be avoided. “Curl up” sheets tend to result in a mis-feed.



Correct (curl down)



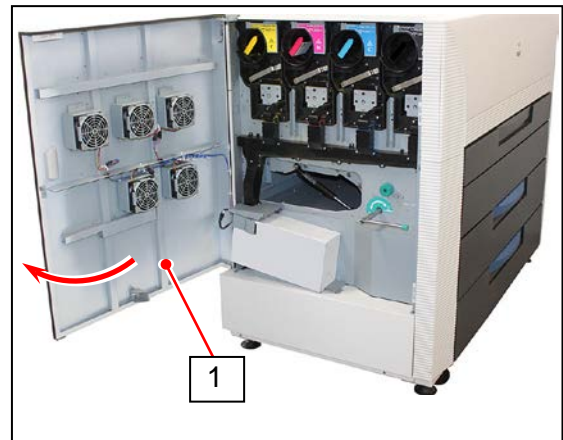
Wrong (curl up)

- (2) Setting a cut sheet to the bypass feeder while printing may cause a paper jam. Be sure to check the printer is idle (not processing a print job) before setting a cut sheet.

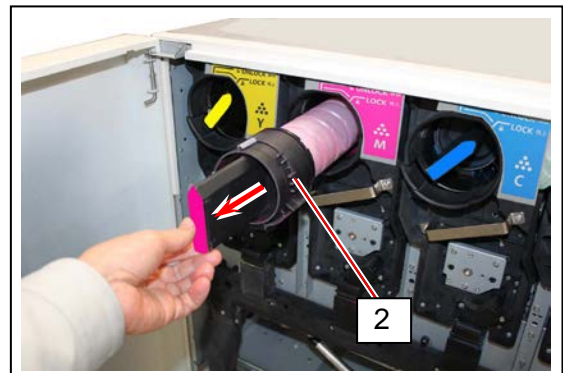
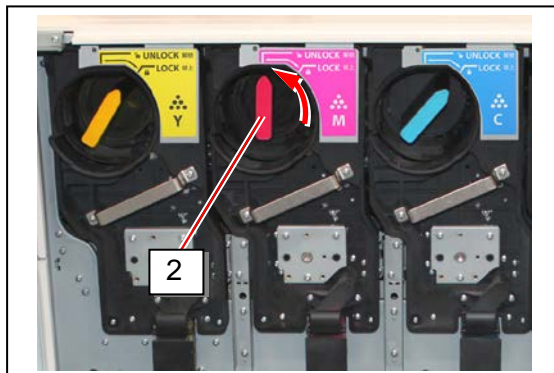
2. 5 Replacing the Toner Cartridge

UI Screen displays a sign of toner empty when the toner in the Toner Cartridge is empty. Follow the later procedure to replace the Toner Cartridge with a new one.

1. Open the Left Side Cover (1).



2. Rotate the Toner Cartridge (2) in the arrow direction until it stops.
Pull and remove the empty Toner Cartridge.



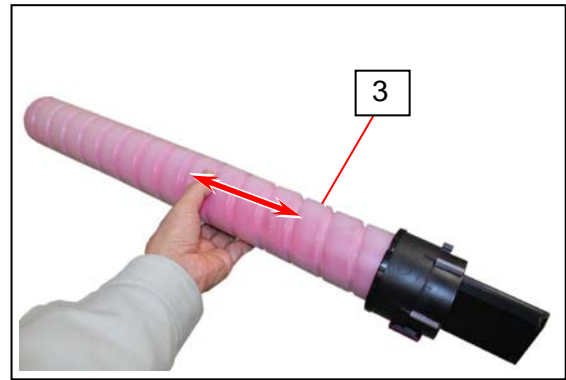
! NOTE

The Toner Cartridge should be returned to your service technician or should be discarded according to your local regulations.

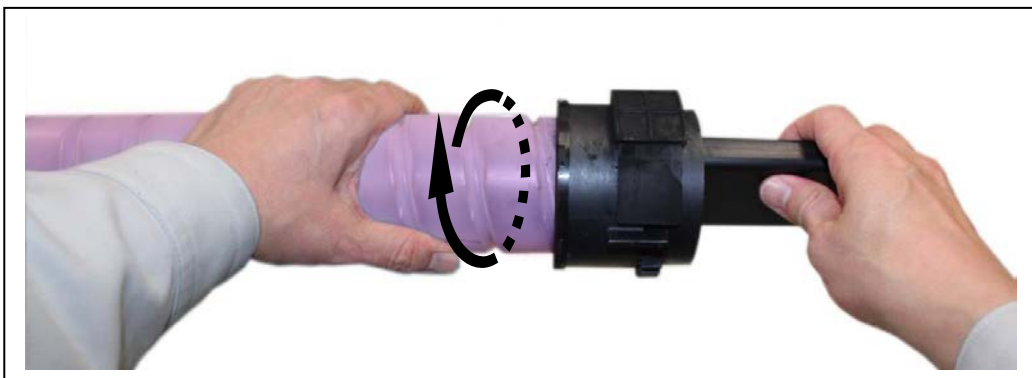
! WARNING

Do not discard it as a flammable. Toner will explode if thrown into the fire.

3. Prepare a new Toner Cartridge (3) of the same color and shake it enough to loosen the toner.



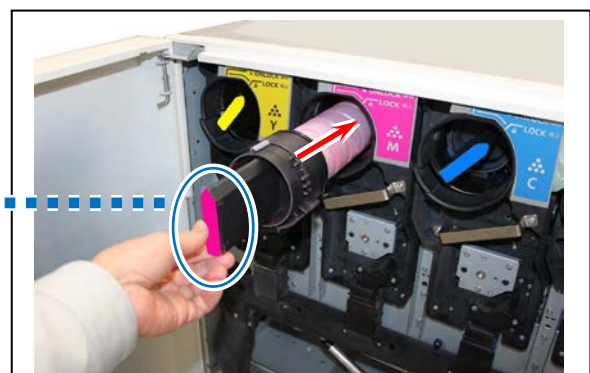
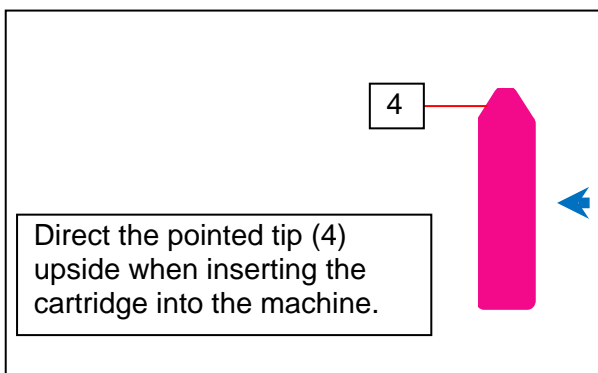
4. With catching the head part (black part), rotate the body (white part) of the Toner Cartridge in the direction of arrow for more than 3 revolutions. This will have a space in the toner supplying hole.



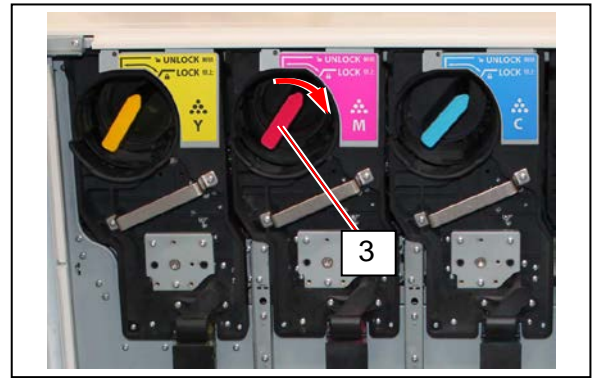
! NOTE

Toner Supplying hole does not open enough if the body is not rotated enough, which causes the developer not supplied with enough toner.

5. With directing the pointed tip (4) of the color label upside, set the new Toner Cartridge back into the original position and insert it deep into the machine until it stops.



6. Rotate the Toner Cartridge (3) in the arrow direction until it stops.



! NOTE

Be sure that the tip of color sticker should not go further beyond LOCK position.



OK

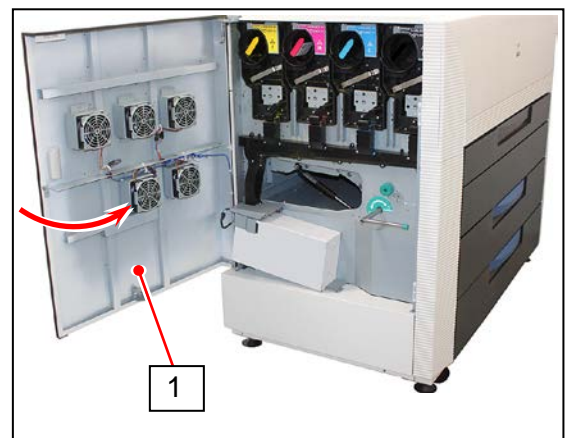


NG

7. Close the Left Side Cover (1).

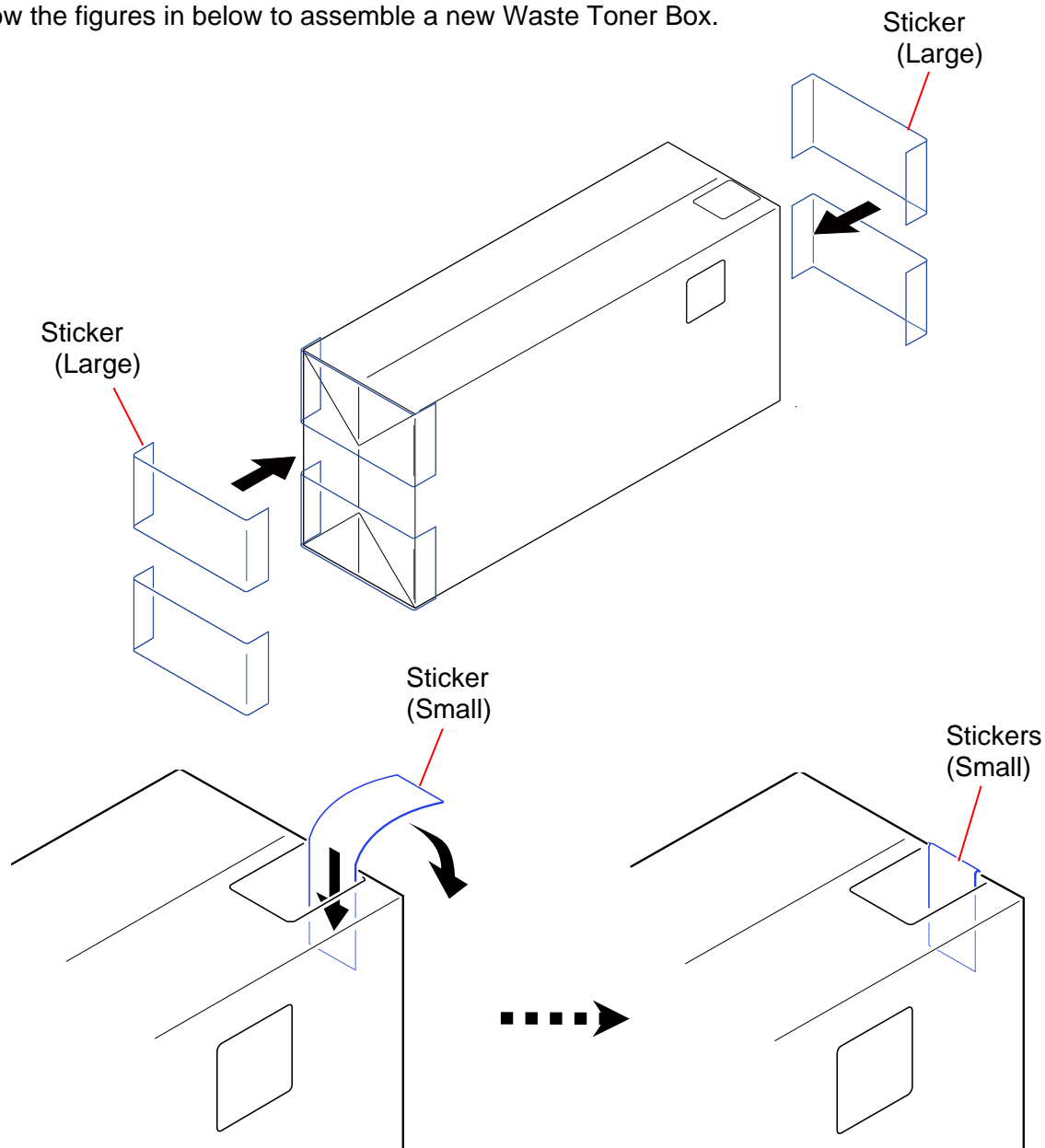
When the Left Side Door is closed;

- The machine goes into “warm up” while processing toner supply.
- The machine gets “ready” when the toner refilling completes.



2. 6 Replacing the Waste Toner Box

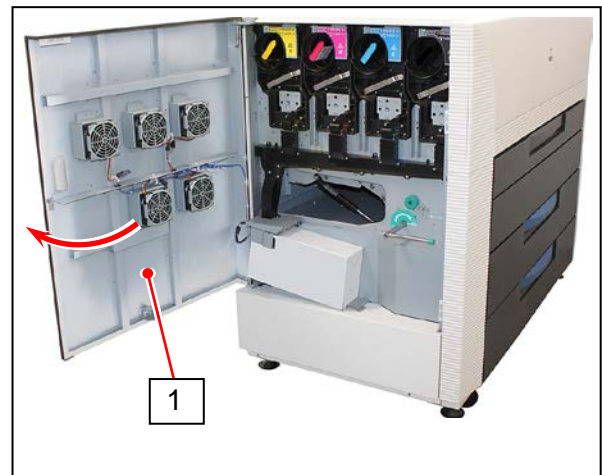
1. Follow the figures in below to assemble a new Waste Toner Box.



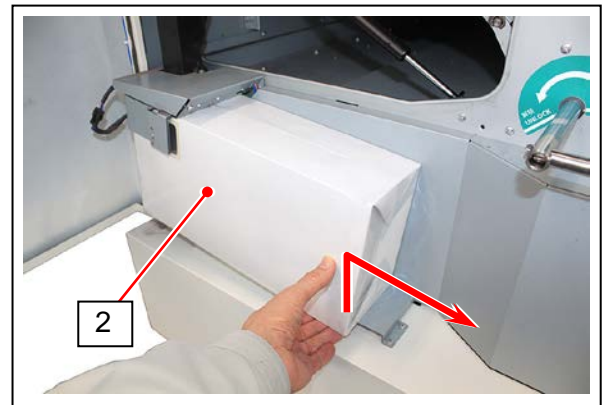
Reference

A sheet of Sticker (Large) still remains after assembling the new Waste Toner Box. This is to be used to close the opening of the box when "waste toner full" occurs next time. Please keep this remaining Sticker (Large) at any place where you easily can find it.

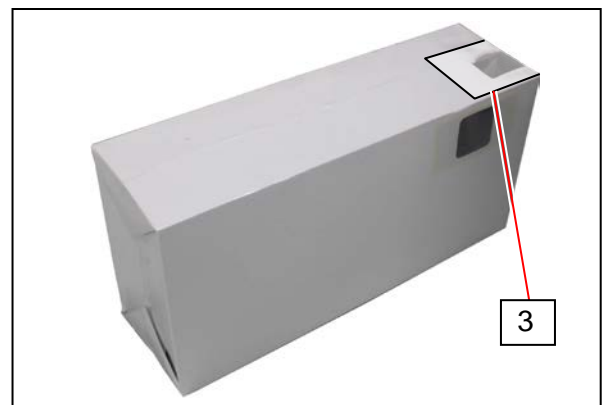
2. Open the Left Side Cover (1).



3. Bring up the Waste Toner Box (2) a little and move it frontward to remove from the machine.



4. Apply the Sticker (3) to close the opening of the Waste Toner, which is included in the WASTE TONER BOX KIT.



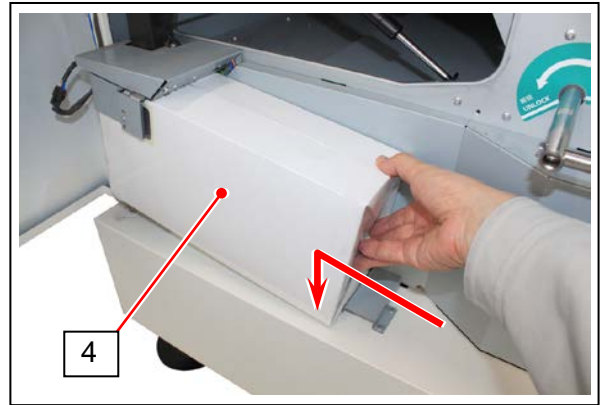
! WARNING

Do not discard it as a flammable. Toner will explode if thrown into the fire. Please ask the seller for the way of dispose.

! NOTE

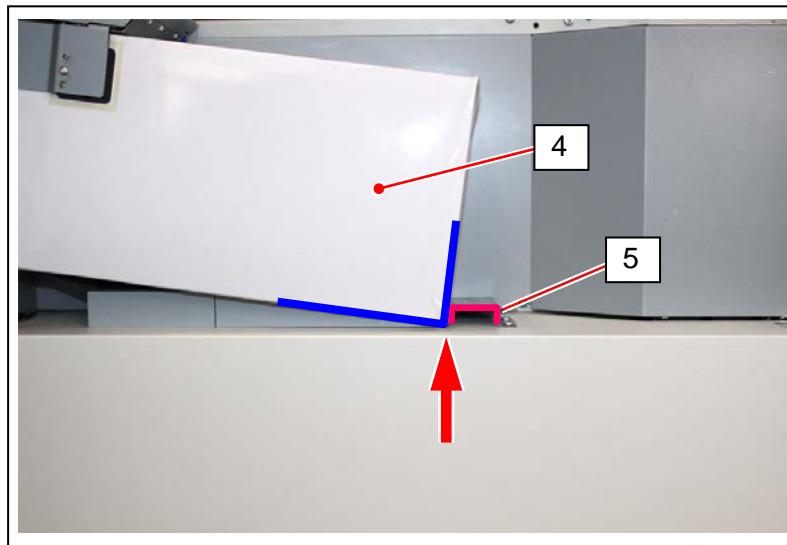
- (1) Do not handle the Waste Toner Box roughly. Otherwise the toner will come out from its open hole.
- (2) The Waste Toner Box should be returned to your service technician or should be discarded according to your local regulations.

5. Set the new Waste Toner Box (4) back in the original position. See the following NOTE.

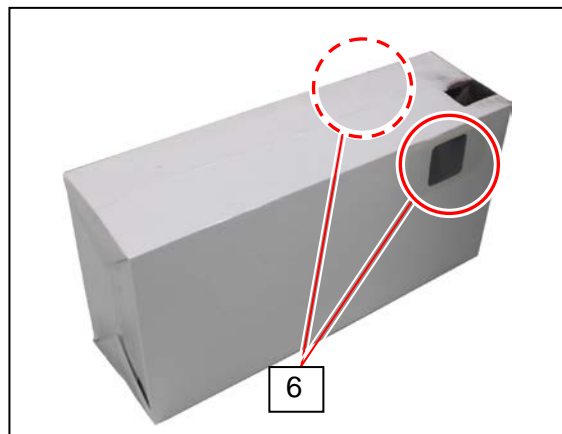


! NOTE

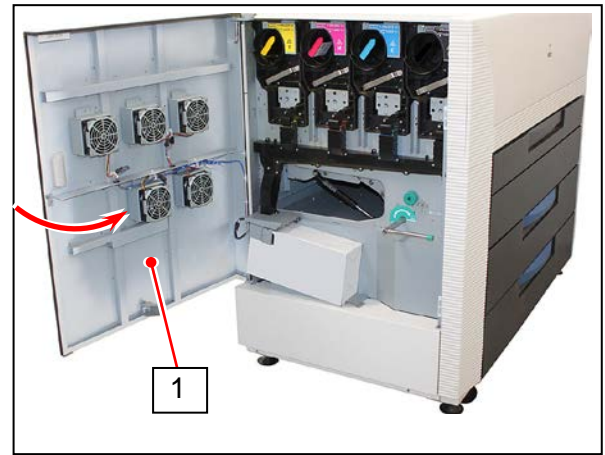
(1) Place the bottom corner of the box at the inside of the positioning step (5).



(2) Make sure the clear film windows (6) is not dirty.



6. Close the Left Side Cover (1).



Chapter 3

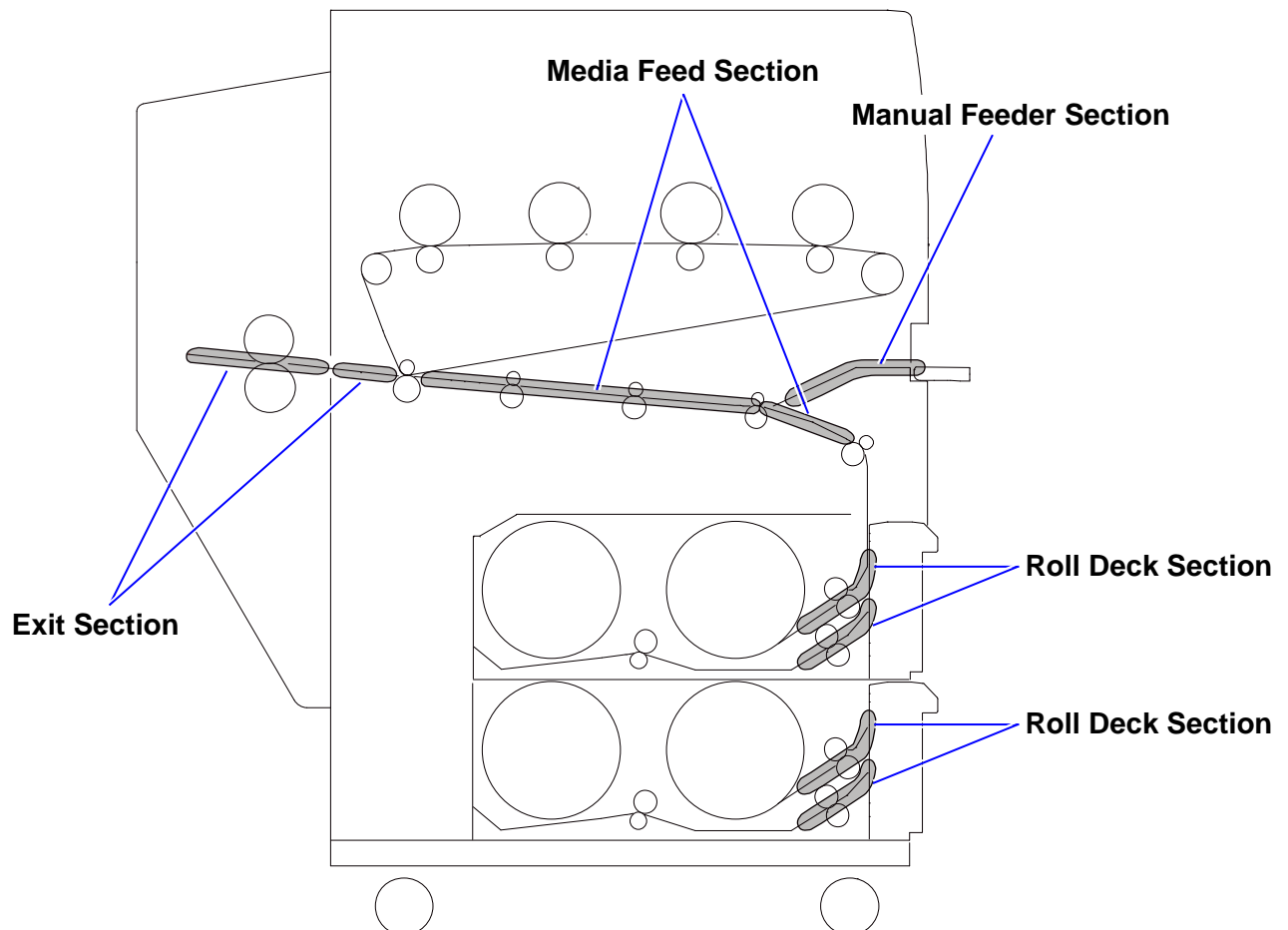
Error Correction

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3. 1 Mis-feed Error	3- 2
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3. 1 Mis-feed Error

"XXXX Mis-feed" is displayed in the UI screen when the media is jammed.

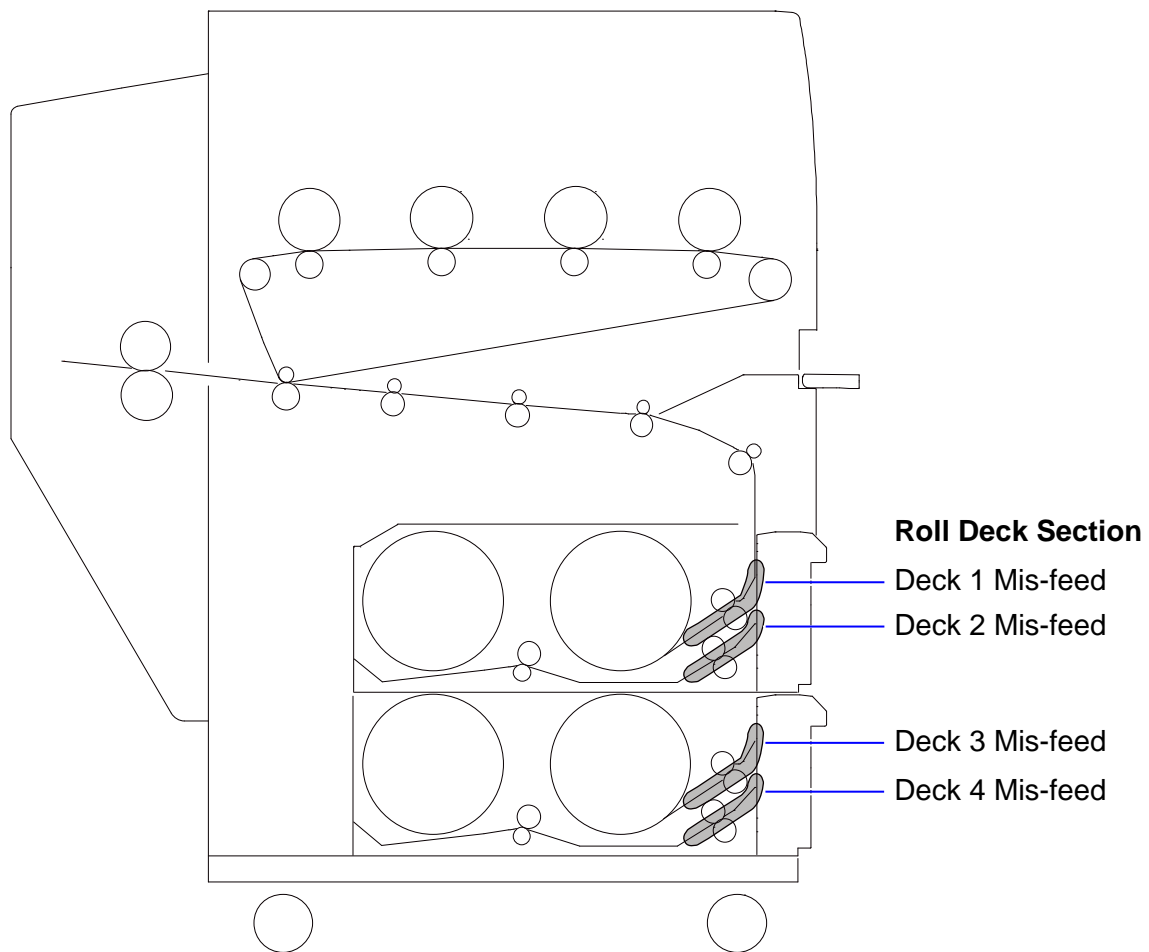
The jammed location when displaying "Mis-feed" is shown below.



NOTE

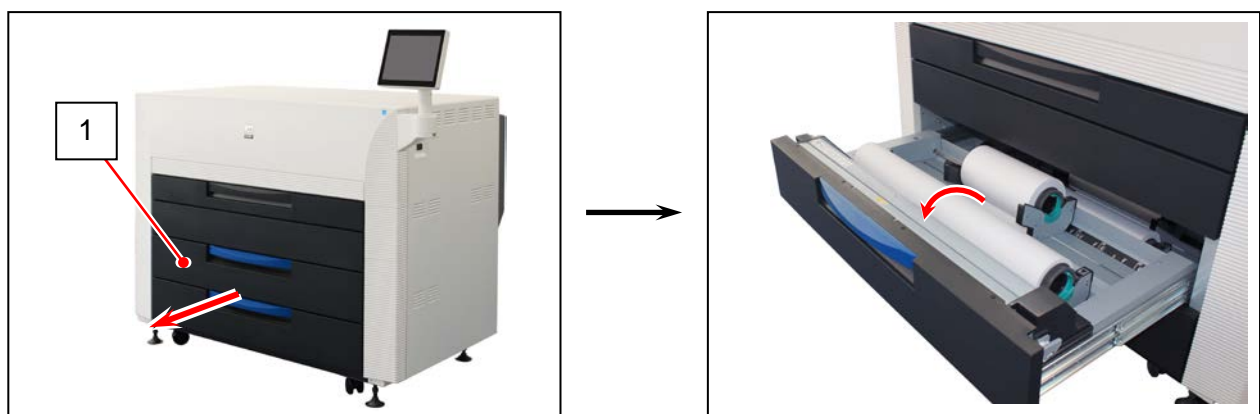
- (1) Be careful not to get paper cuts on your hand.
- (2) Gently remove a jammed paper. When it does not reach Fuser Unit, toner on it may spill off. If toner gets into eyes or your mouth, immediately rinse them with water and contact a doctor.
- (3) Gently remove a jammed paper. When it does not reach Fuser Unit, toner on it may spill off on your cloth. Dust off your cloth. Use cold water to wash in out. Using hot water may leave a stain.

3. 1. 1 Roll Deck Section Jam (Deck 1, 2, 3, 4 Mis-feed)



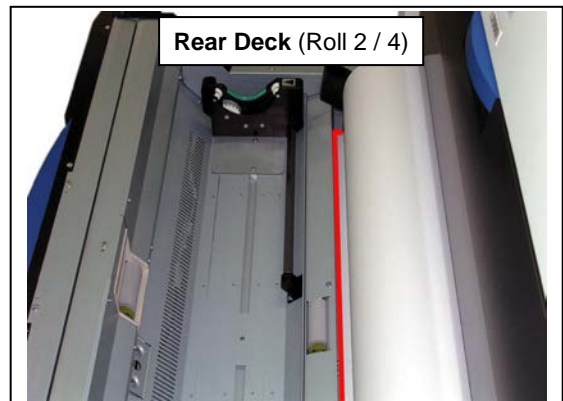
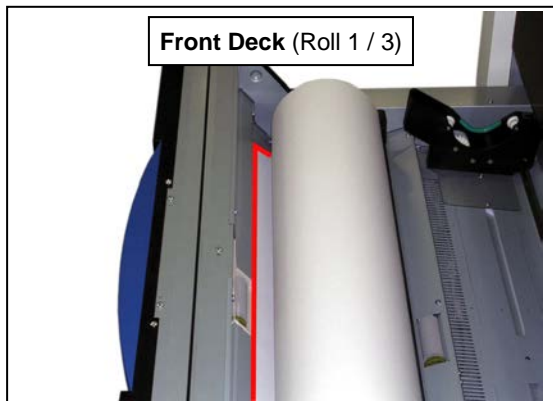
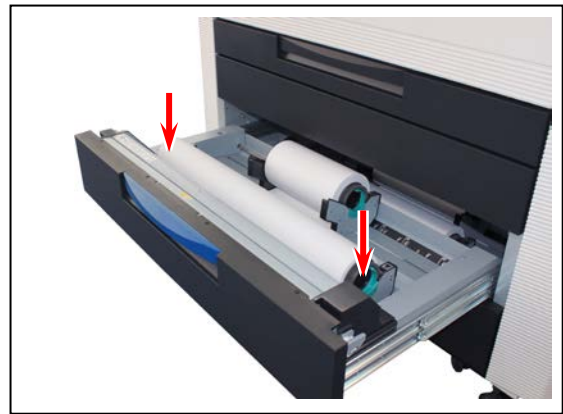
Clear the Paper Mis-feed using the following procedure:

1. Open the Roll Deck (1) in issue. And then rewind the roll onto the media core.



2. If the leading edge of the media is torn or folded, cut it off.

3. Set the roll media correctly.

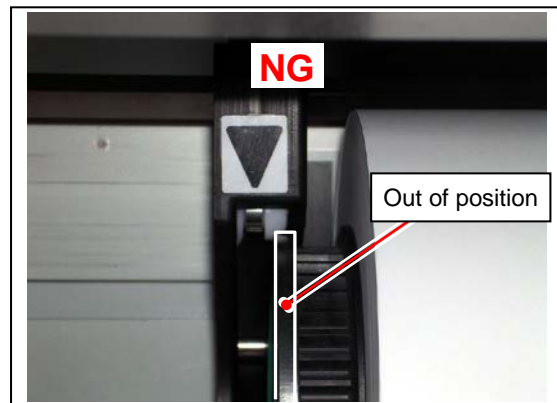


! NOTE

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



Correct

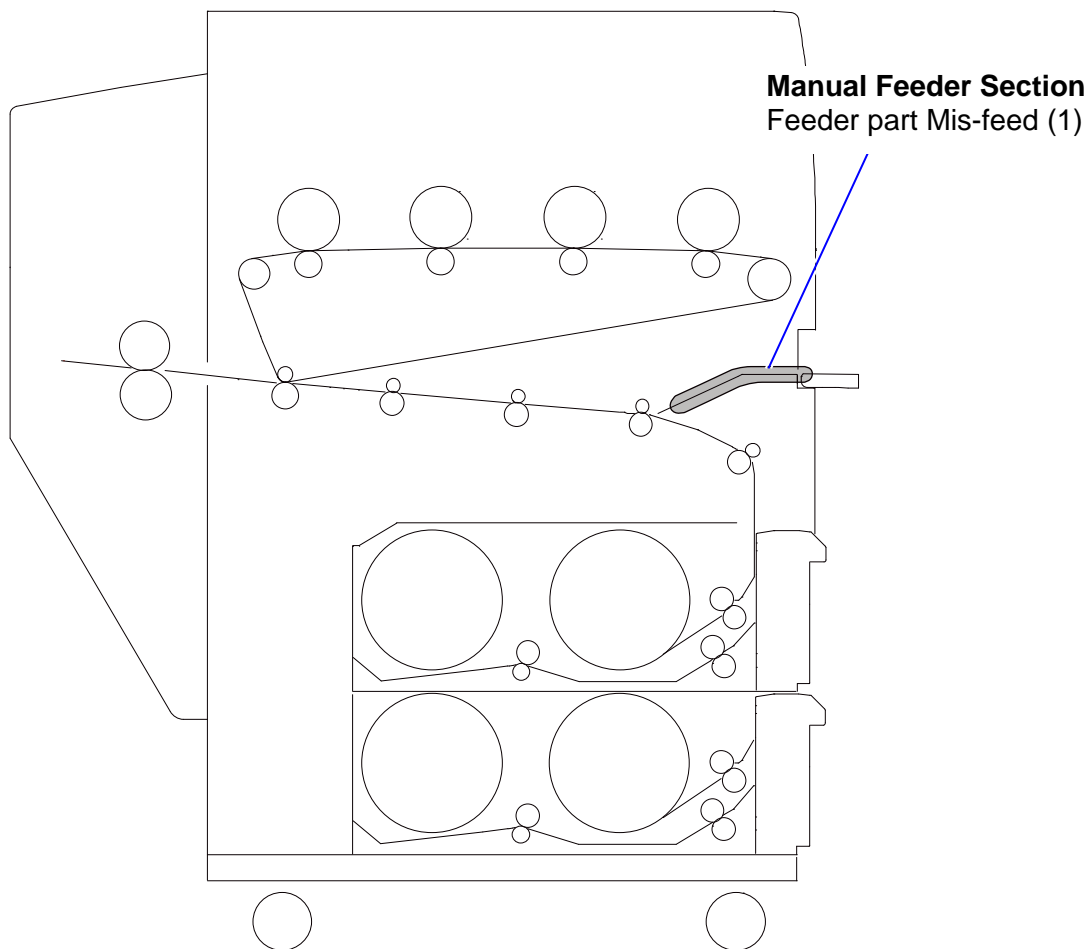


Wrong

4. Close the Roll Deck.



3. 1. 2 Manual Feeder Section Jam (Feeder part Mis-feed (1))



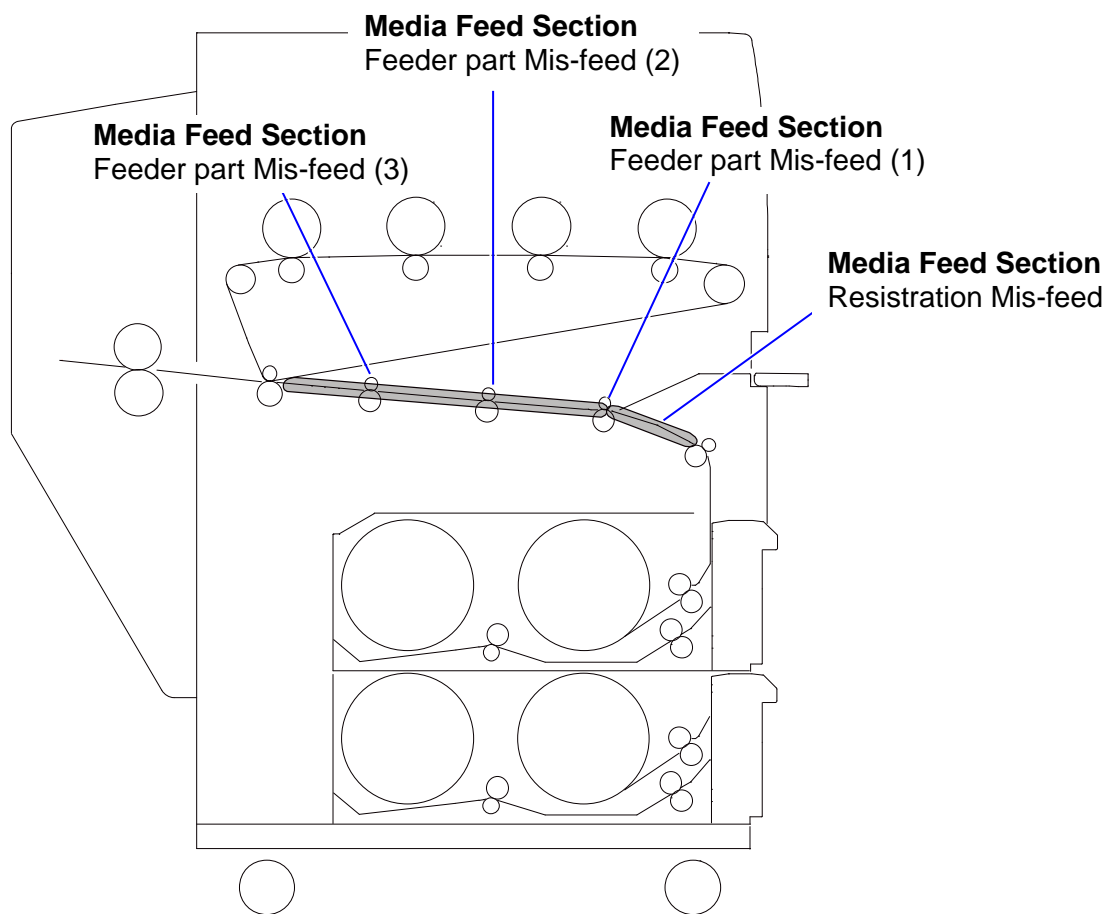
1. Pull out the mis-feed cut sheet from the Manual Feeder.



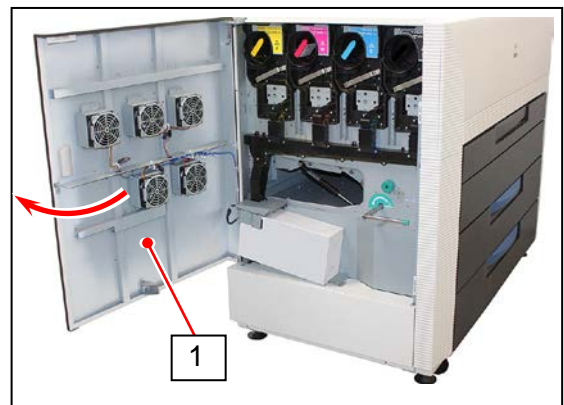
NOTE

The mis-feed cut sheet should be replaced with a new one if its leading edge has a torn or fold. Or it should be used upside down to keep the damaged edge from been inserted. An extremely creased cut sheet may cause mis-feed again.

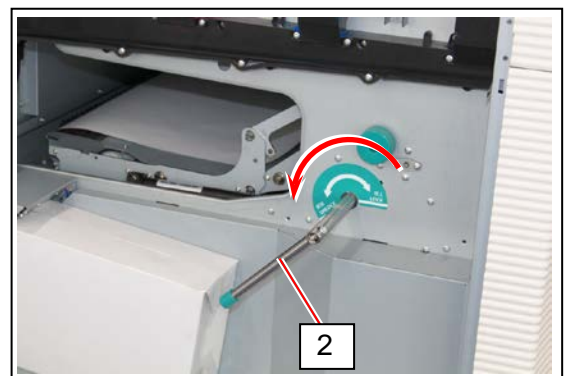
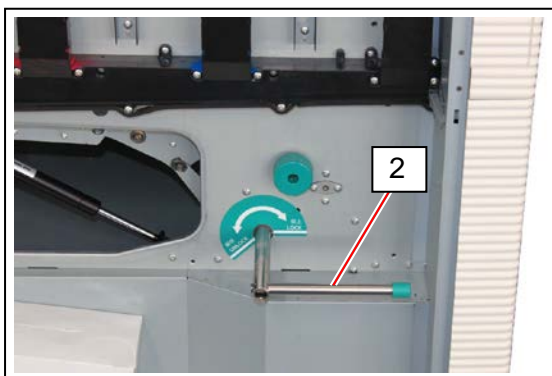
3. 1. 3 Media Feed Section Jam (Registration Mis-feed, Feeder part Mis-feed (1), (2), (3))



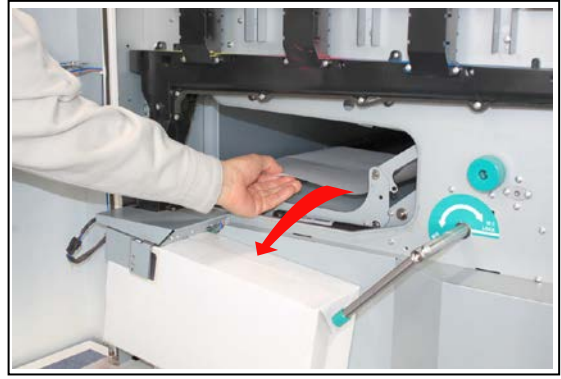
1. Open the Left Side Cover (1).



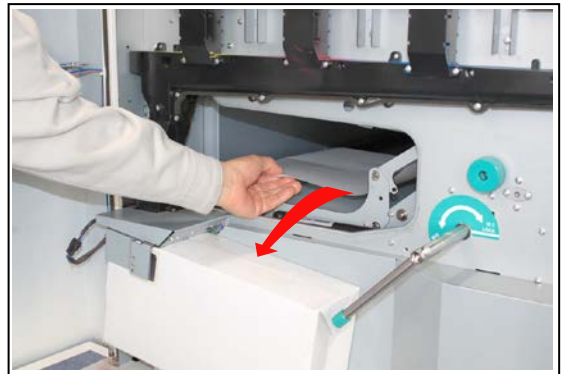
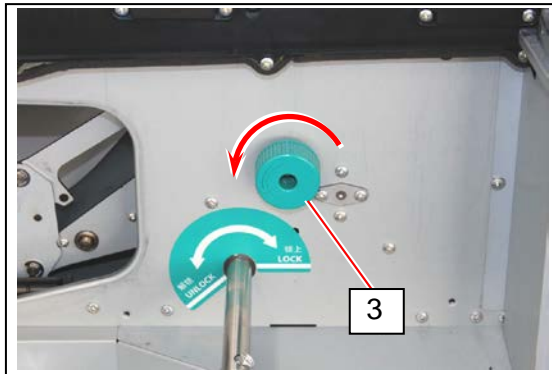
2. Turn the Lever (2) to the arrow direction.



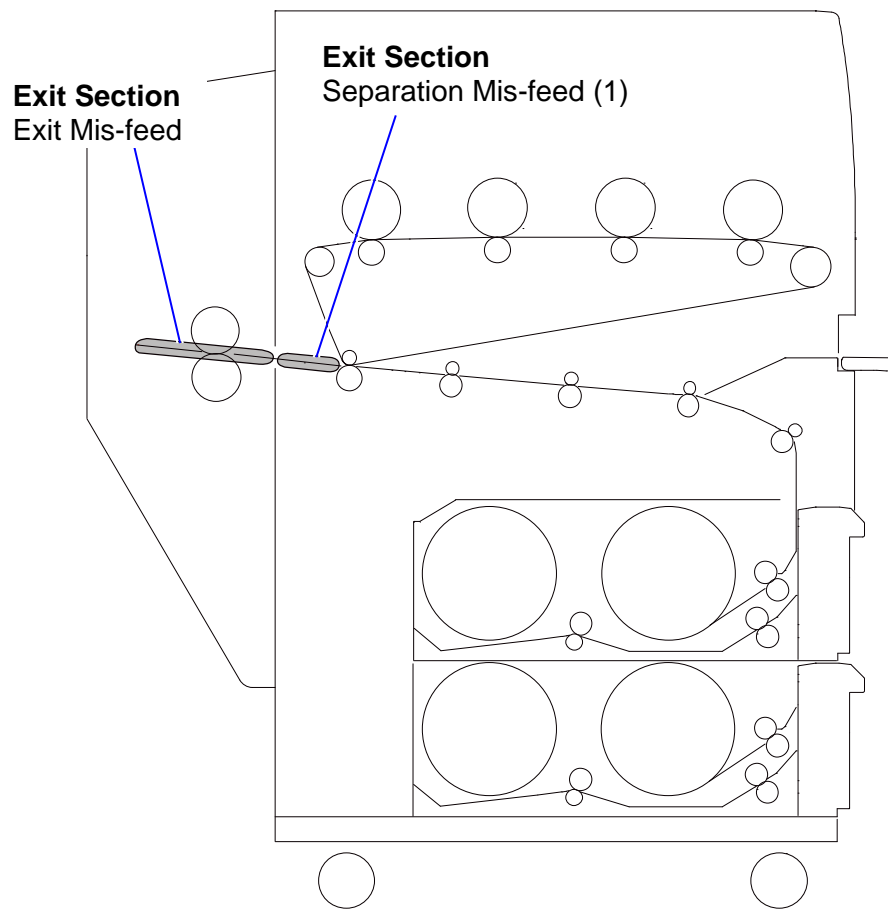
3. Remove the jammed media.



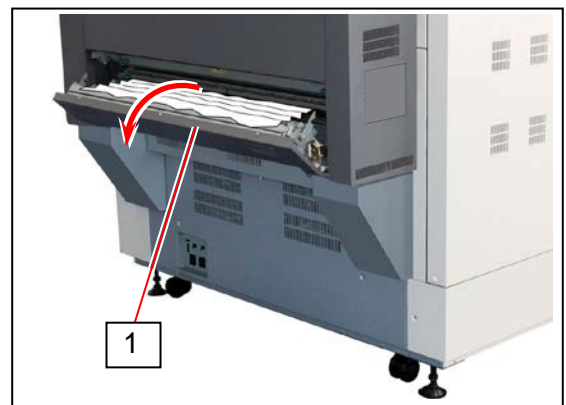
4. In case that the media is pinched by the roller and cannot be removed, rotate the Paper Feeding Knob (3) to feed the media to the Feeder Unit, and then remove it.



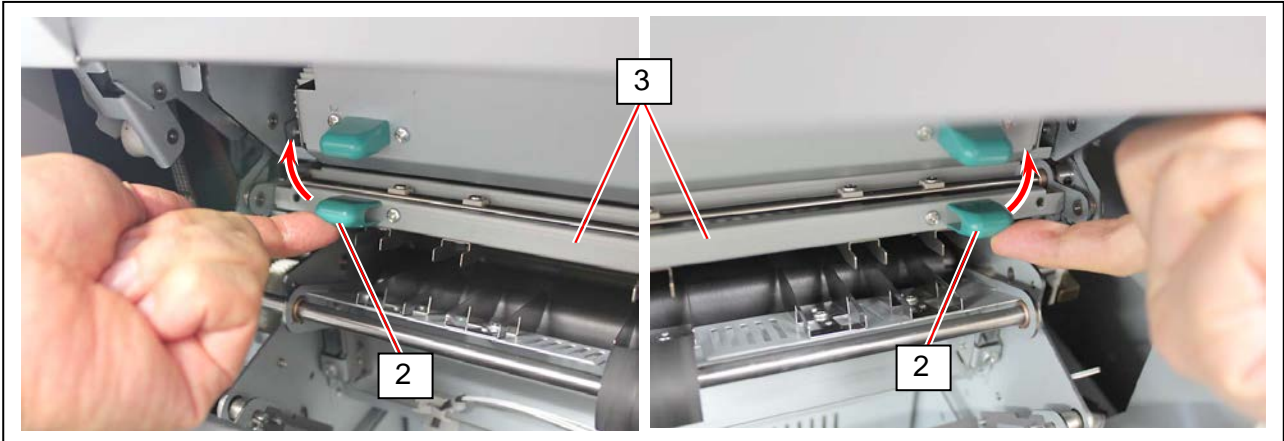
3. 1. 4 Exit Section Jam (Exit Mis-feed, Separation Mis-feed (1))



1. Open the Fuser Cover (1).

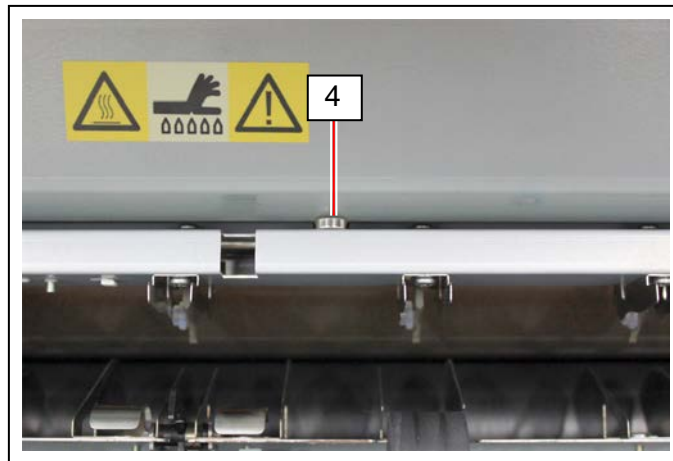


2. Holding the knob (2) on both sides, lift up the Stripper Finger Assy (3).

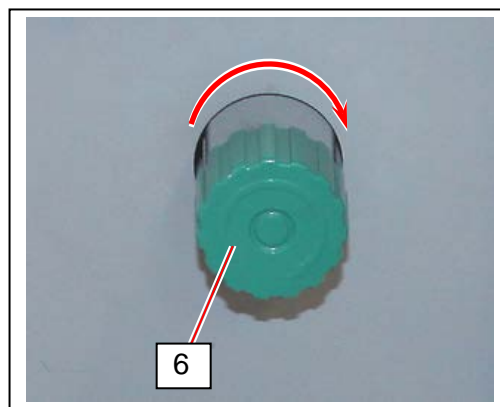
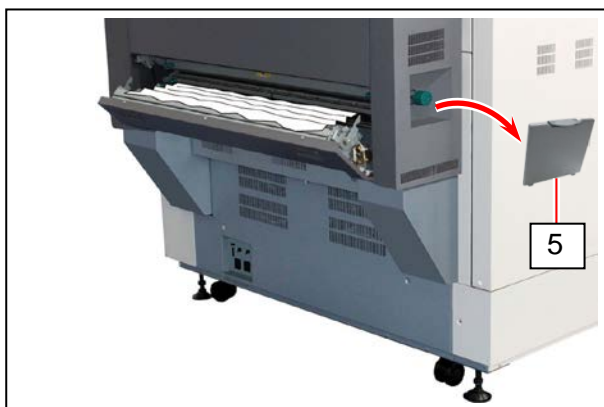


Reference

Lift up the Separation Finger Assy (3) on both sides until it is stuck by magnets (4) in the upper lock position.



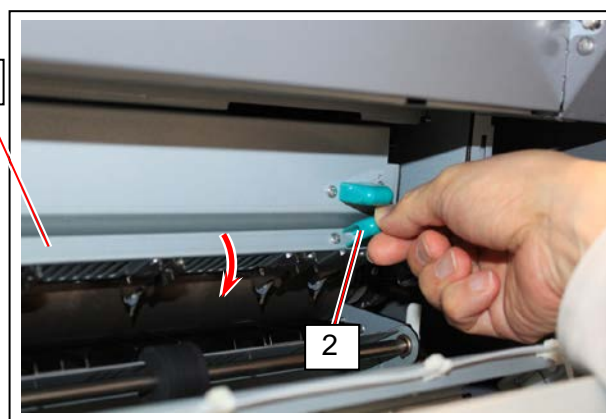
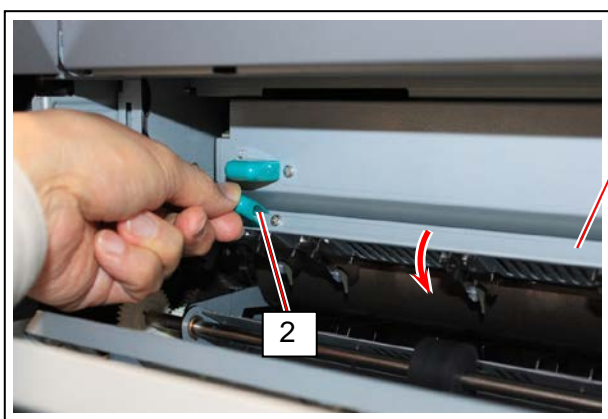
3. Remove the Cover (5). Rotate the Fuser Knob (6) to the arrow direction to feed the media to the exit direction, and then remove it.



! WARNING

There are extremely hot parts inside the Fuser Unit. Do not touch any parts in the Fuser Unit, or you will be burnt.
Also the mis-fed media can be very hot. Be careful not to get burnt when you remove it.

4. Holding the knob (2) on the both sides to put back the Stripper Finger Assy (3) to the original position.

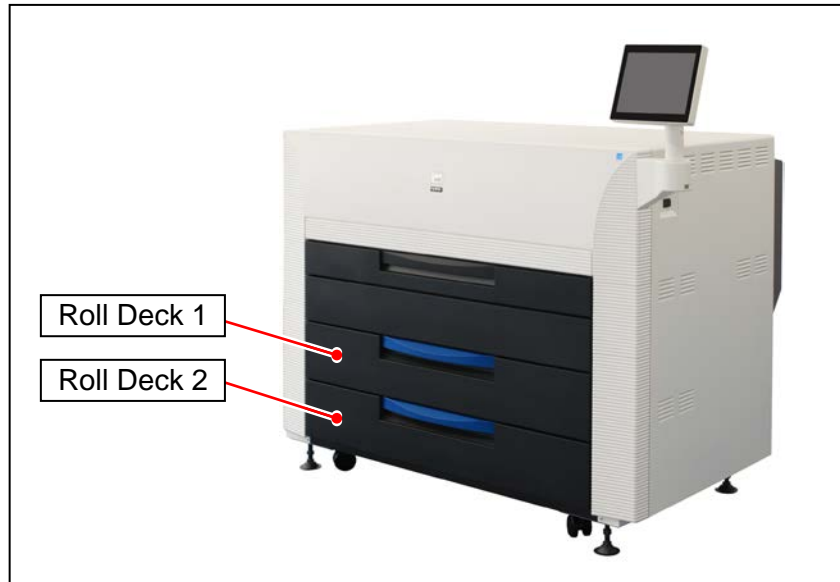


3. 2 Door Open

"Door Open" is displayed in the UI screen when the door in each unit is opened.

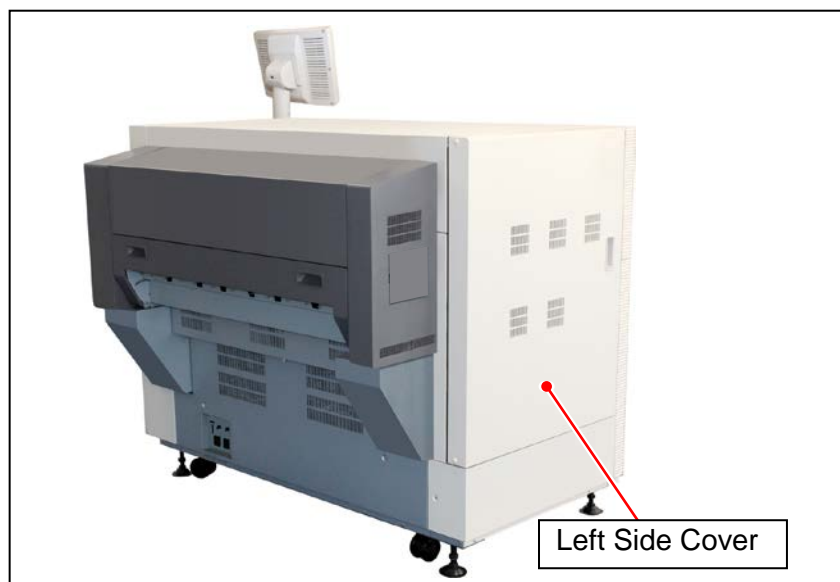
3. 2. 1 Roll Deck (Deck 1, 2 Open)

Close the Roll Deck securely to clear "Deck 1, 2 Open".



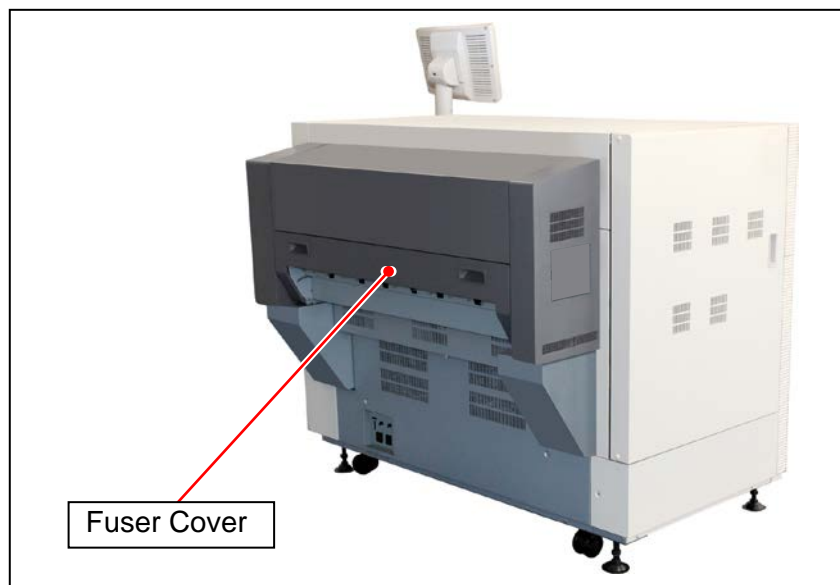
3. 2. 2 Left Side Cover (Left Side Cover Open)

Close the Left Side Cover securely to clear "Left Side Cover Open".



3. 2. 3 Fuser Cover (Fuser Cover Open)

Close the Fuser Cover securely to clear "Fuser Cover Open".



3. 3 Other Operator Call

3. 3. 1 Roll Replacement

When the printer is running out of a loaded roll media, the UI Screen will display “Out of Paper” sign.

If there is no suitable roll media required for the current print job, the UI Screen will display “Out of Paper” sign as well. Please load the required roll media to any Roll Deck.

For the roll replacement procedure, see [2.3 Replacing the Roll Media].



3. 3. 2 Toner Empty

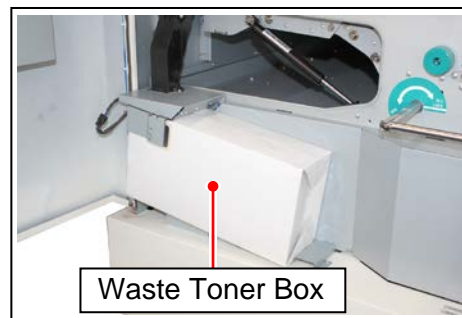
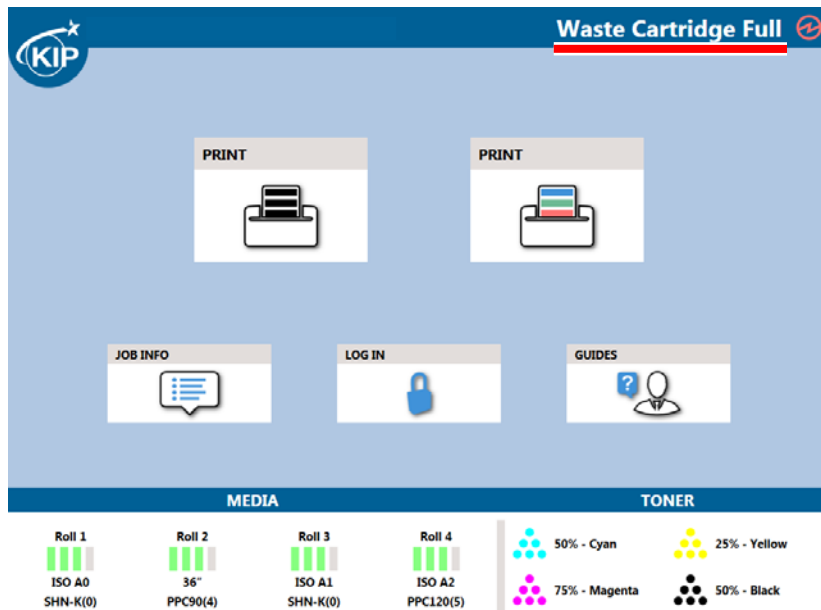
When the printer is running out of toner, the UI Screen will display “Toner Empty” sign.

For the toner supply procedure, see [2.5 Replacing the Toner Cartridge].



3. 3. 3 Waste Cartridge full

When the Waste Toner Box is full, the UI screen shows “Waste Cartridge full.”
The printer does not restart operation until the Waste Toner Box is properly replaced.
For replacement procedure, see [2.6 Replacing the Waste Toner Box].



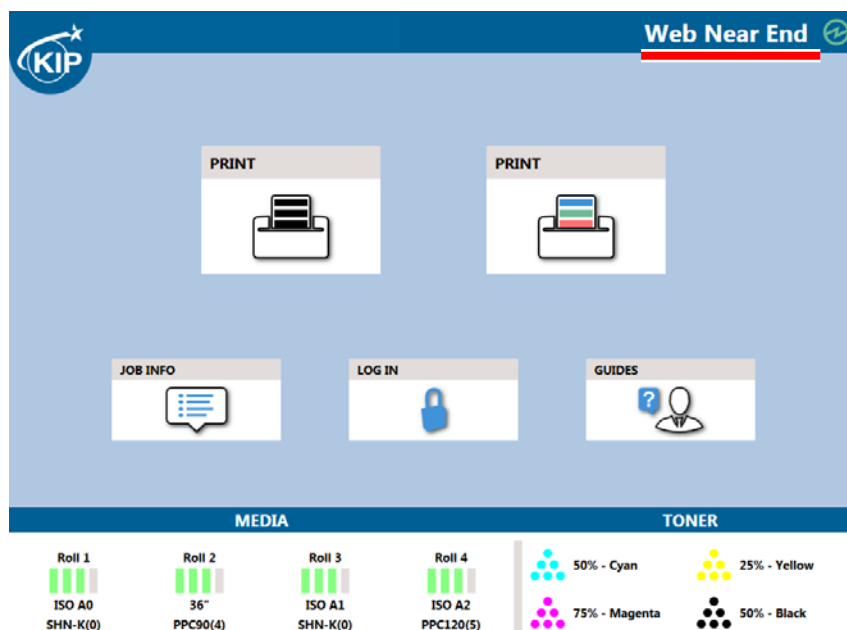
3. 3. 4 Web Cleaner Empty

Web Cleaner is a component to clean Fuser Unit.
When the remaining Web Cleaner is low, the UI screen displays “Web Near End”. (The Printer is still available)

“Out of Web” error will appear over a period of time, and the Printer becomes unavailable.
Please call your service representative to replace Web Cleaner early.

! NOTE

Web Cleaner can be replaced by a well trained technician only.



3. 4 Service Call Error

If an error with significant effect on the printer occurs, the printer stops the operation and indicates a related Customer Engineer Call Error Code (or description, and its equivalent internal code) on the UI screen.

Call the service staff immediately as these problems can be fixed by a well trained technician only.

Before calling the service staff, try to turn on/off the Printer. If "Service Call Error" is indicated again, turn off the machine, unplug it, and call the service staff with reporting the error description in the UI screen.

CE-Call Error (Service Call Error)

- Sensor Error
- Motor Error
- Cutter Error
- Fan Error
- Fusing Temperature Error
- LED Head Error
- High Voltage Power Supply Error
- Density Control Error
- Belt Skew Error

A corresponding description will be displayed in the top column (status region) in the UI screen.

