



KIP 770K User Manual

Version A.1



Thank you for purchasing the Multi-Function Printer KIP 770.

This Hardware Operation Guide contains functional and operational explanations for the KIP 770. 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 product must accept any interference received, including interference that may cause undesired operation.

2. When this product is installed in Europe

This product complies with the requirements in Pub.22 of CISPR Rules 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 Machine 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 770 is an ENERGY STAR qualified multifunction 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 4 July 2012 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:



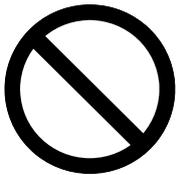
WARNING

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.



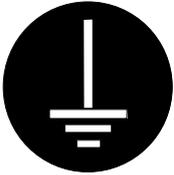
When marked with this symbol, "DO NOT ATTEMPT"



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.



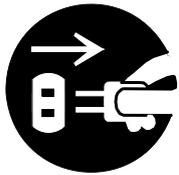
Do not throw the toner into a fire or other sources of heat, as it can explode.



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.



The shipment package includes several tools (Wrench, etc) that are designed for only unloading, installing, uninstalling the machine.

Use only for intended purpose.

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:C13	10A 250V (IEC) 15A 125V (UL)	

Plug Type: Model Rating 220-240V

Configuration	Standard	Rating	Usually found in
	CEE7/7	10A 250V	European countries
	KS C 8305	10A 250V	Korea
	AS/NZS 3112	10A 250V	Australia New Zealand
	GB1002 GB2099.1	10A 250V	China
	IRAM 2073	10A 250V	Argentina
	BS 1363	10A 250V	United Kingdom
	SASO 2203	10A 250V	Saudi Arabia
	BS 546A IS-1293 SABS-1293	15A 250V	United Kingdom India South Africa
	SEV 1011	10A 250V	Switzerland

Chapter 1

Before Use

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1.1 Installation Requirements

The following conditions are required for the installation of the equipment.



1. Power source should be rated as:
U.S.A: 120V +/-10%, 50/60Hz, 15A or higher
Europe: 220-240V +6% or -10%, 50/60Hz, 10A or higher
2. The equipment must be on a dedicated circuit.
3. The outlet must be near the equipment and easily accessible.

I Norge: Kan kobles til IT strøm distribusjonssystemer.



1. Make sure to connect this equipment to a properly grounded outlet.
2. The outlet shall be installed near the equipment and shall be easily accessible.

Site Environmental Conditions

Temperature Range : 10 °C to 32 °C / 50 F to 89.6 F

Humidity Range : 15% to 85% RH. (NON CONDENSING)

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



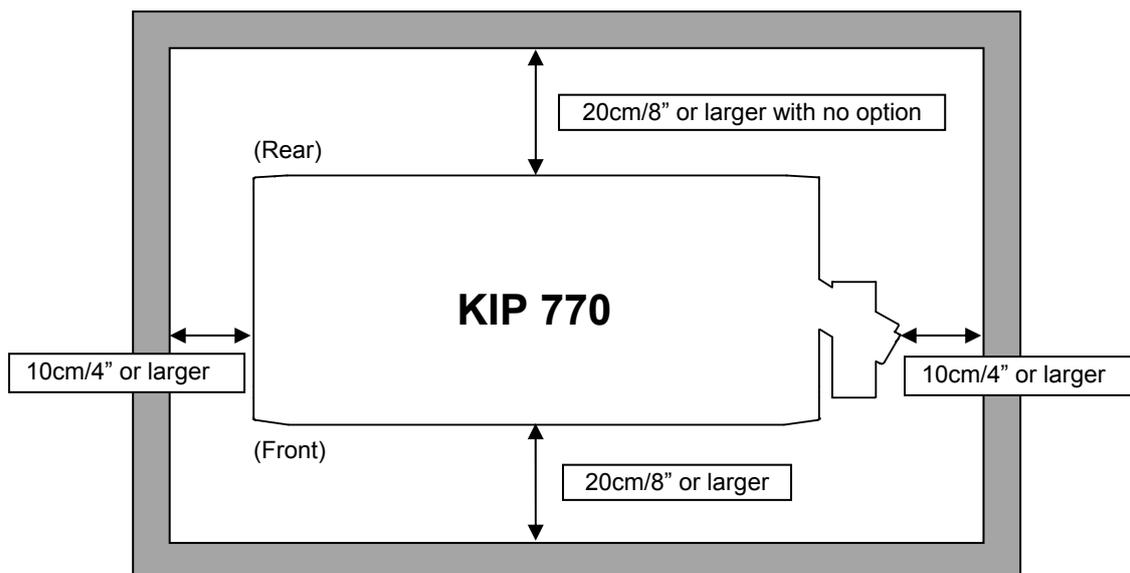
1. The installation site must not have any open flames, dust or ammonia gases.
2. The equipment must not be exposed to the air vents from heating/cooling systems.
3. The equipment should not be exposed to the direct sunlight. Please draw curtains to block any sunlight.
When you open the printer (Upper Half), do not expose the Photoconductive Drum to strong (intense) light as this will damage the Drum.



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

Keep ample space around the equipment to ensure comfortable operation.

The floor must be level and the 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 770 is a Multi-Function Printer for scan, copy and print large format documents. Some of these features may be optional.
- (2) Front loading - front delivery structure saves the installation space.
- (3) Various media source; roll media feeding (1 roll), cut sheet manual feeding, Paper Tray multiple cut sheet feeder (option).
- (4) A dedicated printer stand offers easy print handling with the print basket. The KIP 770 is also suitable for your office layout as a desktop MFP.
- (5) The operation speed is 40mm/s (2.9 D landscape / 2.8 A1 landscape per minute).
- (6) The maximum print width is 914mm / 36" wide, and the minimum one is 210mm or 8.5". The maximum print length is 2,400mm (for A0 / 36" wide media), and the minimum one is 297mm or 11".
- (7) Up to 600dpi print resolutions with an enhanced scanning system produces the highest quality images controlled by an advanced KIP Image Process System.
- (8) 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.
- (9) Easy access to USB port allows users to provide efficient productivity by using "File to Print" / "Scan to USB" (option).
- (10) KIP 770 adopts 12.1 inch screen for the UI, wider than 8.5 for our old products. The capacitive multi-touch screen offers smooth, various and intuitive user operation that a pressure sensing device lacks.

1.4 Specifications

1.4.1 General

Subject	Specification
Model	KIP 770
Configuration	Console
Power consumption (Maximum)	1500w (US model) 1600w (Europe/Asia model) (Including Scanner & Controller Unit)
Power consumption (Low power mode)	Conformity with International Energy Star Program
Acoustic noise	Idling Max. 51db Printing Max. 60db (impulse sound excluded) EN ISO 7779
Ozone	Max. 0.05ppm (Measurement method under UL Standard)
Dimensions	1450mm (Width) x 833mm (Depth) x 1330mm (Height) (w/ Stand) 1450mm (Width) x 691mm (Depth) x 788mm (Height) (w/o Stand)
Weight	About 180kg / 397lb (w/ Stand) About 147kg / 324lb (w/o Stand)
Environmental condition for usage	Temperature: 10 to 32 degrees Centigrade / 50 to 89.6 F Humidity: 15 to 85% RH
Interface	Network Interface (10 BASE-T / 100 BASE-TX / 1000 BASE-T)
Rating input power	In the US : 120V plus/minus 10%, 50/60Hz, 12A In Europe : 220-240V plus 6% or minus 10%, 50/60Hz, 6.5A

-The above specifications are subject to change without notice.

Subject	Specification
Media source	1 Roll Deck (3" / 2" core roll*) Manual Feeder (single cut sheet) Paper Tray (multiple cut sheet, option)
Media	(Recommended Roll Media) - US model: Bond : 64g/m ² to 80g/m ² , US Bond (20# Bond) Vellum : US Vellum (20# Vellum) Film : 4MIL (4Mil-2 Xero Film) - Europe/Asia model: Plain Paper : 64g/m ² to 80g/m ² , Diamond (80g/m ²) Tracing Paper : Gateway (73g/m ²) Film : NSF 4 MIL - 2" roll core* : Universal Bond Paper (Cut sheet) Plain Paper / Bond
Storage of consumables	(Toner cartridge) Store the cartridge within the temperature range from 0 to 40 degrees Centigrade and within the humidity range from 10 to 85% RH.

* Need the optional flange (2 inches).

-The above specifications are subject to change without notice.

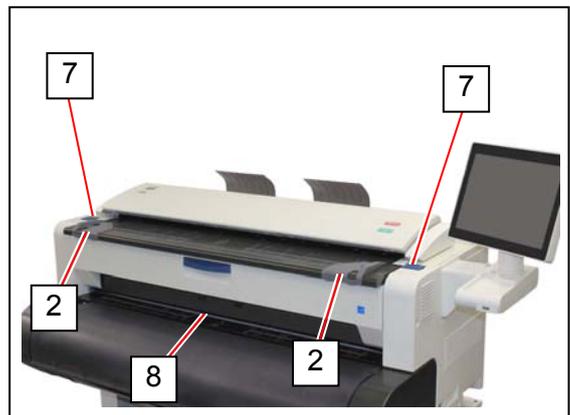
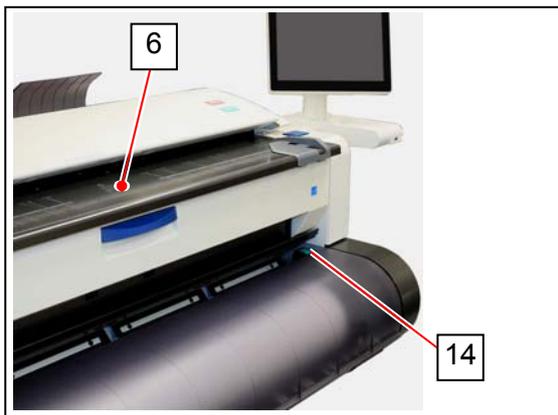
1. 4. 3 Scanner part

Subject	Specification
Scanning method	Contact Image Sensor (CIS) (5 pieces of A4 sized CIS)
Light source	LED (R/G/B)
Setting of original	Face up
Starting point of scan	Center
Scan width	Max: 914.4mm / 36" Min : 210mm
Scan length	Max: 6,000mm / 19.7ft (Including the margin area) (If the print is longer than 6,000mm, its image quality or the reliability of paper feeding is not guaranteed.) Min : 210mm / 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 <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>⚠ NOTE</p> <p>Image quality for an original with 0.25mm or thicker is guaranteed only in a standard size even the scanner physically accepts it.</p> </div>
Scanning speed	Monochrome : 65mm/s (mono 600dpi max) Grayscale : 65mm/s Color : 22mm/s The actual speed may vary by the scan software.

-The above specifications are subject to change without notice.

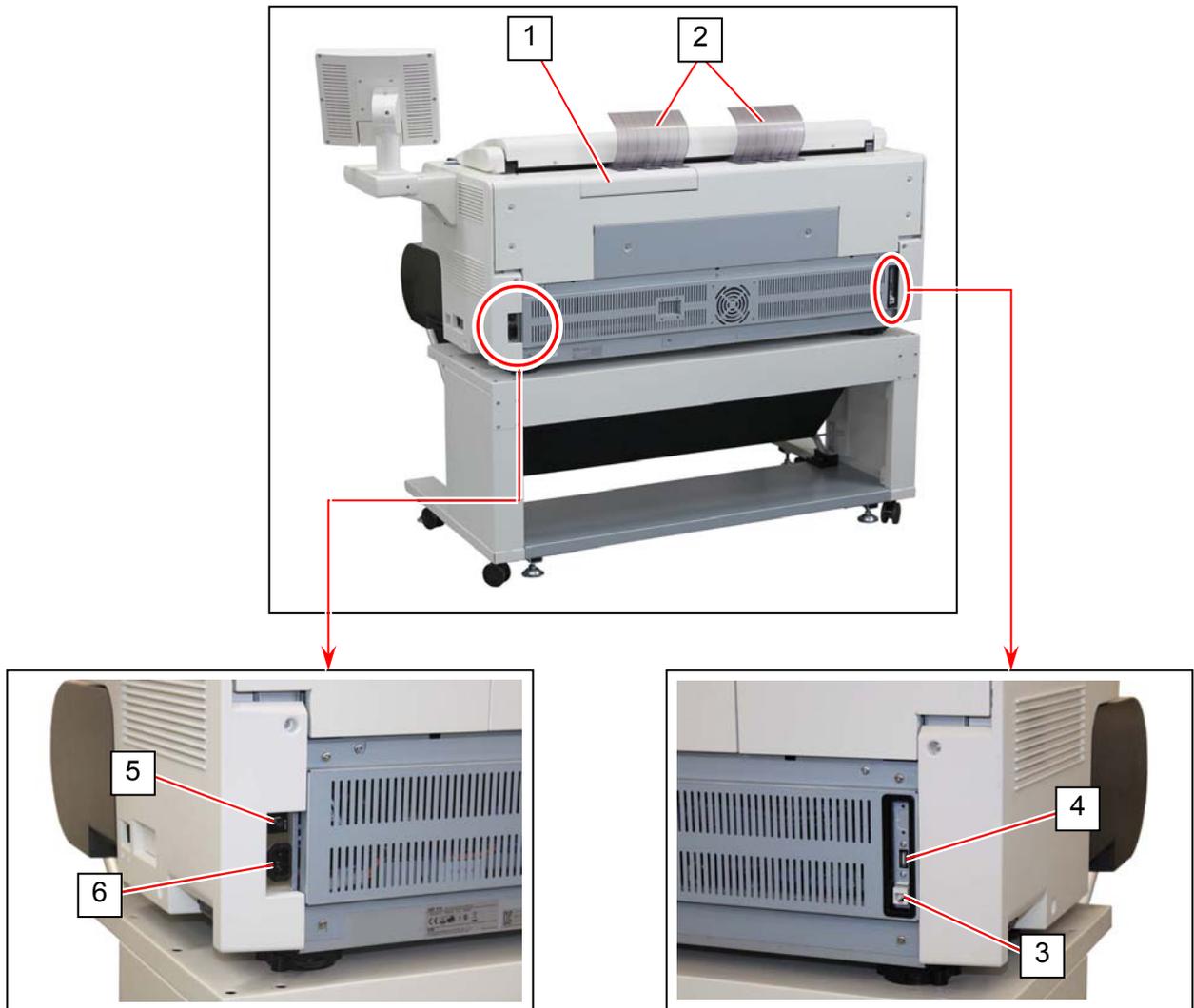
1.5 Appearance

1.5.1 Front view



No.	Name	Function
1	Main Switch	You can turn on/off the KIP 770.
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 operation are available. PLEASE DO NOT push the LCD area too strong.
4	USB port	Your USB flash memory storage can be installed here. 5VDC max.
5	Scanner Unit	Read the original with this unit when you make scan or copy.
6	Original Table	Place the original here and then feed it into the Scanner Unit when you make scan or copy.
7	Engine Unit Open Lever	Push down these blue levers when you open the Engine Unit.
8	Manual Feeder	Feed a cut sheet paper from the Manual Feeder. Open here to access Initial Cut Button.
9	Roll Deck Cover	Lift up to open the Roll Deck. A roll media can be loaded in the Roll Deck.
10	Print Basket	Receives ejected printed.
11	Scan Abort Button	While scanning: emergency stop At Standby position: eject
12	Start Button	Starts scanning if the controlling software requires user intervention.
13	Fuser Cover	Can access a mis-feed print inside the Fuser Unit.
14	Initial Cut Button	Push this button to trim the leading edge of the loaded roll media.

1. 5. 2 Rear view



No.	Name	Function
1	Toner Cover	Open here to access toner supply system.
2	Original Guide	These trays catch the original ejected from the Scanner Unit.
3	LAN Port	Connect the LAN Cable to connect the KIP 770 to the network. (Do not connect a telephone line)
4	USB Port	Service Use, 5VDC max.
5	Breaker	It is possible to shut off supplying the AC power.
6	Inlet Socket	Connect the Power Cord here.

1. 6 Specifications for the Scan Original

A scan original must satisfy the following specifications.

Thickness	0.05mm to 1.6mm *1
Width	210mm to 914.4mm
Length	210mm to 6000mm *2

*1. Image quality for an original with 0.25mm or thicker is guaranteed only in a standard size even the scanner physically accepts it.

*2. Image quality for an original over 6,000mm in length is not guaranteed.

1. 6. 1 Original Standards

- (1) The width of original must range from 8.5" to 36" (210mm to 914.4mm).
- (2) The length of original must range 8.5" (210mm) to 25,000mm
- (3) The thickness of original must range from 0.05mm to 0.25mm.
- (4) The shape of original must be square, and it must be standard sized.
- (5) The type of original must belong to any of the followings.

Plain paper

Coated paper (High or middle class plain paper is coated with the paint.)

Tracing paper

Pansy Trace Paper (Both sides of the film is sandwiched between Tracing paper.)

Film

Newspaper

Cardboard paper

1. 6. 2 Special Documents

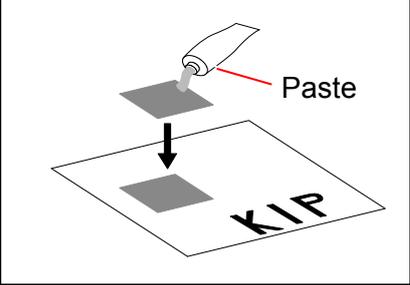
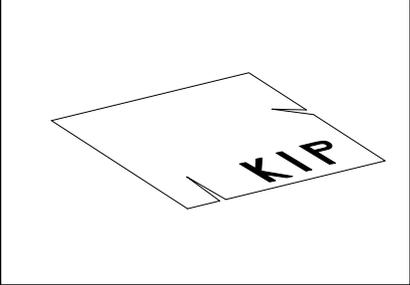
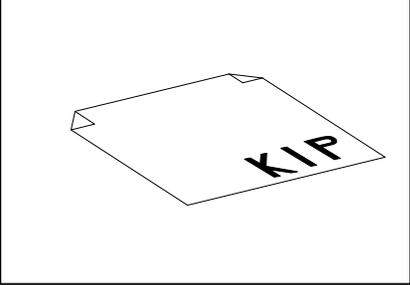
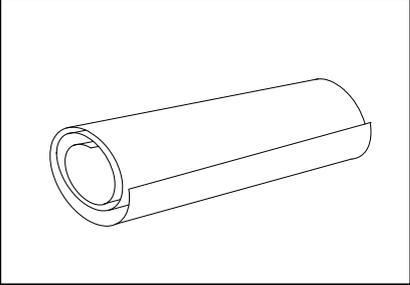
The following kinds of originals are "special". It is possible to scan them, **but the image quality and feed reliability are not guaranteed.**

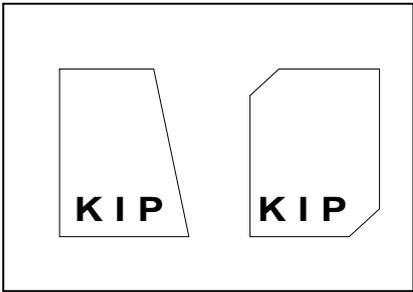
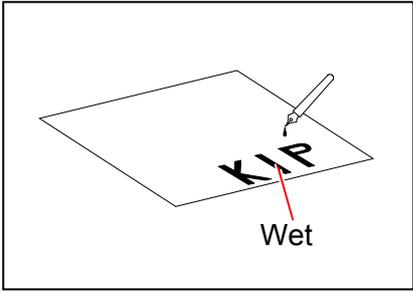
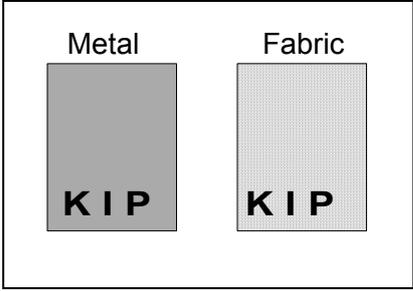
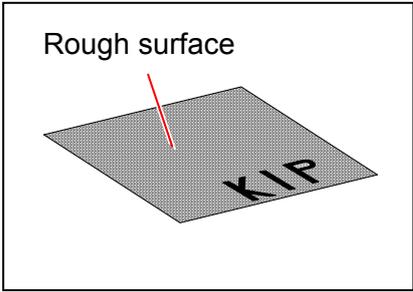
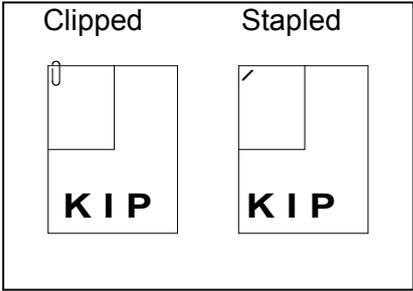
- (1) The type of original is acceptable, but the thickness and type may not be:
 - Booklets
 - Original with a Hanger
 - Cut and Pasted originals
- (2) These original may not damage the scanner, but these types are NOT recommended:
following ones.
 - Cloth
 - Aluminium Kent Paper

1. 6. 3 “Do Not Scan” Originals

It is impossible to use the following types of originals because they are likely to damage the scanner.

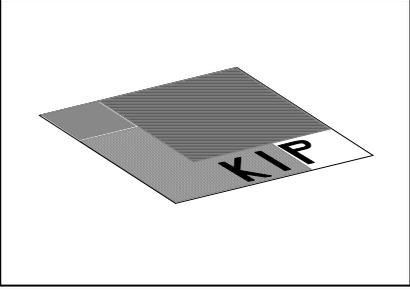
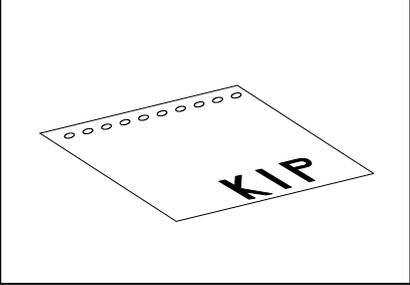
Do not scan the following kinds of originals. The original or the scanner may damage.

Sticked with paste	
Torn	
Folded (Leading edge)	
Excessively curled (a diameter of 80 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.

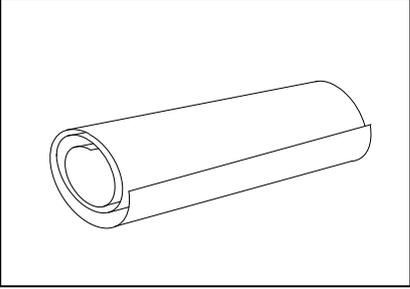
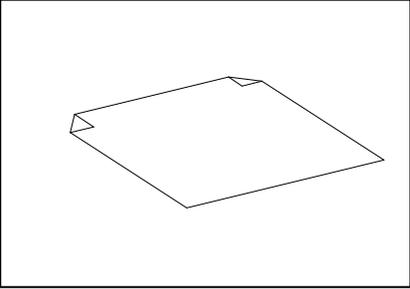
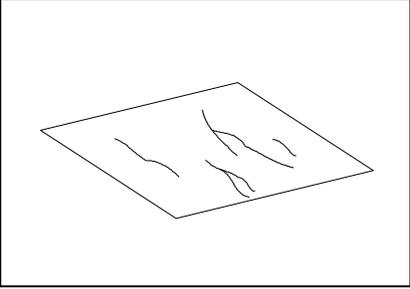
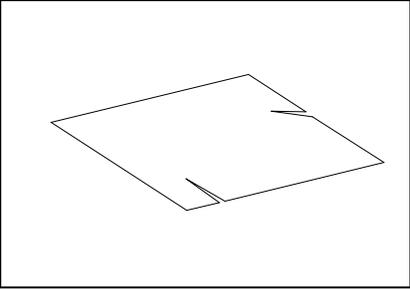
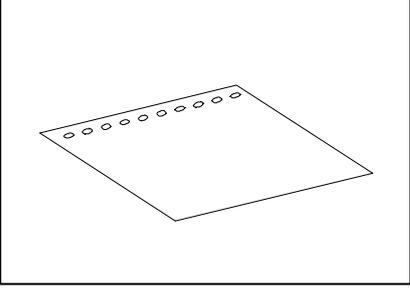
However, the image quality and feed reliability are not guaranteed.

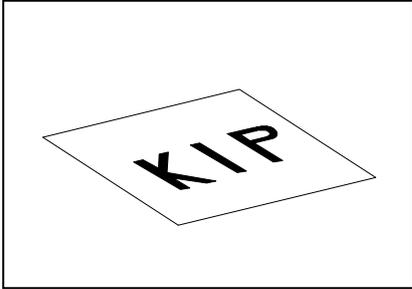
Patched	
Punched	

1.7 Specifications for the Printing Paper

1.7.1 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 aluminum 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 cause paper mis-fed, poor print image or creasing if you use a paper that does not satisfy the specifications.
- (4) Do not use a paper of which surface is very special, such as thermal paper, art paper, aluminum foil, carbon paper or conductive paper.
- (5) Vellum exposed to air over a long period tends to cause a defective printing.
It is recommended to remove one round on the surface of the vellum roll from the beginning.
- (6) Remove fully any adhesive from the roll that may remain due to tape placed by the media supplier.
- (7) 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.
- (8) It is recommended to trim the leading edge by using Initial Cut Key on the User Interface (UI) before making a long print.
For trimming the leading edge, see [2.4 Initial Cut].

1. 7. 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. 7. 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 an 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”, “crease of paper” and other problems occurs when you print with plain paper and tracing paper.	1. Use a dehumidifier or such equipment. 2. Remove the paper from the machine right after the completion of print, and keep it in a polyethylene bag.

⚠ NOTE

- (1) The built-in “Dehumidify Heater” is an option.
Using a dehumidifier in high humidity environment (65% or higher) is recommended.
Refer to [2.10 Dehumidifying Roll Media].
- (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;



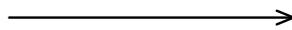
Crease of paper



Normal Print



If the media is humidified;



Void of image



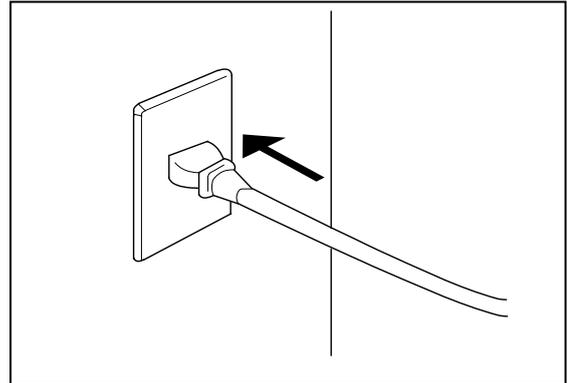
Chapter 2

Basic Operation

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2.3	Replacing Roll Media	2- 5
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2. 1 Turning on KIP 770

1. Ensure that the KIP 770 is plugged into a dedicated wall outlet.



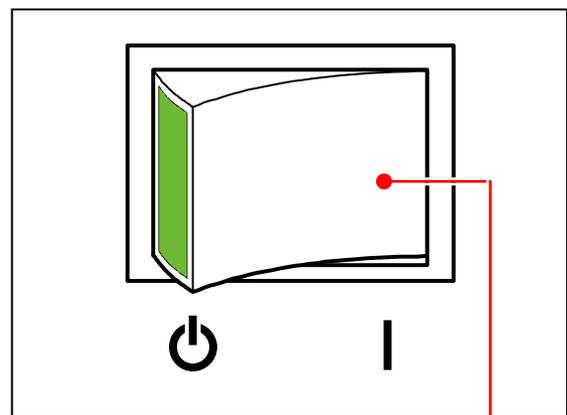
⚠ WARNING

- (1) Do not handle the Power Plug with wet hands, or you may receive an electrical shock.
- (2) Make sure to earth the machine for safety.
- (3) Do not plug the printer into a multi-wiring 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 the 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. Press “ | ” side the Power Switch on the right side of the printer to turn on the KIP 770.

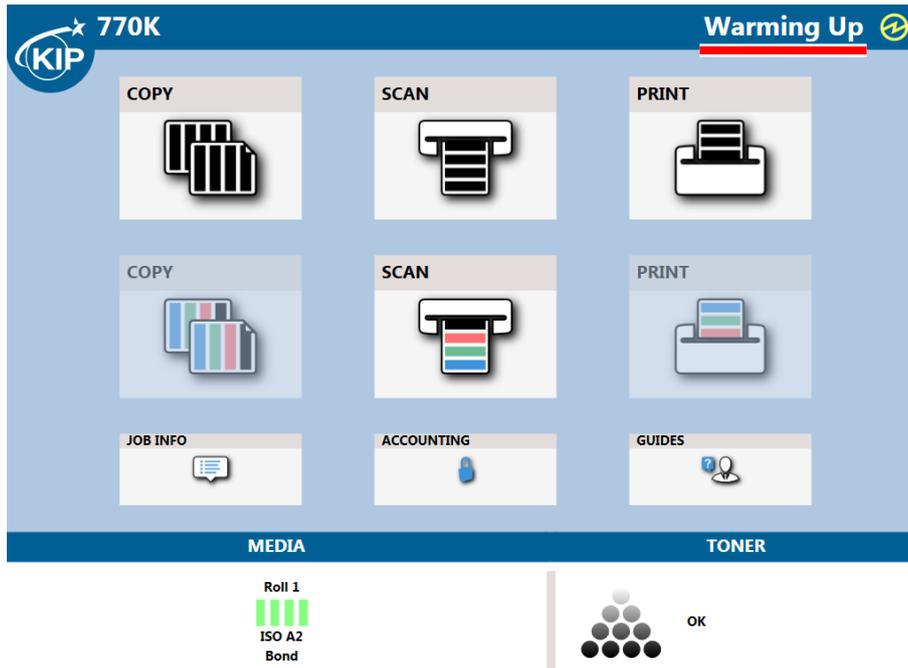


Power Switch



Press “ | ” side.

3. The User Interface (UI) starts operating, and displays the following Screen in one minute. "Warming Up" is displayed in the status indication while warming up.



The UI screen may vary depending on your system configuration.
(Shown with available options)

NOTE

It is not possible to print while displaying "Warming Up" in the status indication.

4. "Ready" is displayed in the status indication when KIP 770 is available to print.

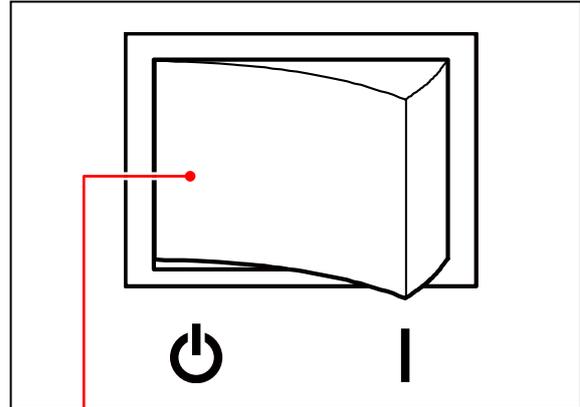


2. 2 Turning off KIP 770

1. There is a Power Switch on the right side of KIP 770.
Press its “⏻” side to turn off the KIP 770.



Power Switch



Press “⏻” side.

CAUTION

The KIP 770 print engine and UI appear to be shut down when you turn off KIP 770. However, the controller PC embedded inside the KIP 770 is still operating and will shutdown in approximately two minutes after Power Switch operation.

Do not unplug the KIP 770 before the controller PC completes its shutdown. Doing so may damage data or the device.

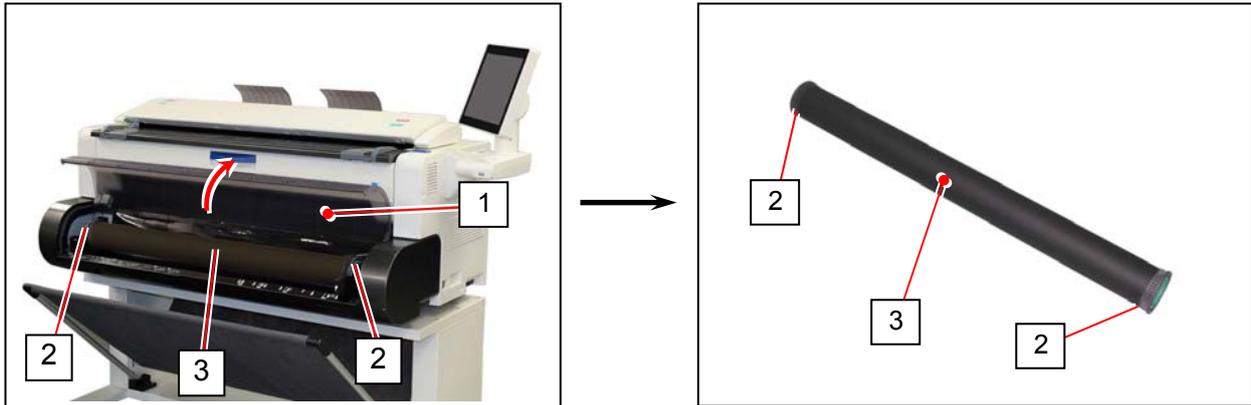
2.3 Replacing Roll Media

When the printer is running out of a roll media, the UI Screen will display “Out of Paper” sign. Follow the later procedure (or as noted in the UI’s User Guide) to load a roll media.

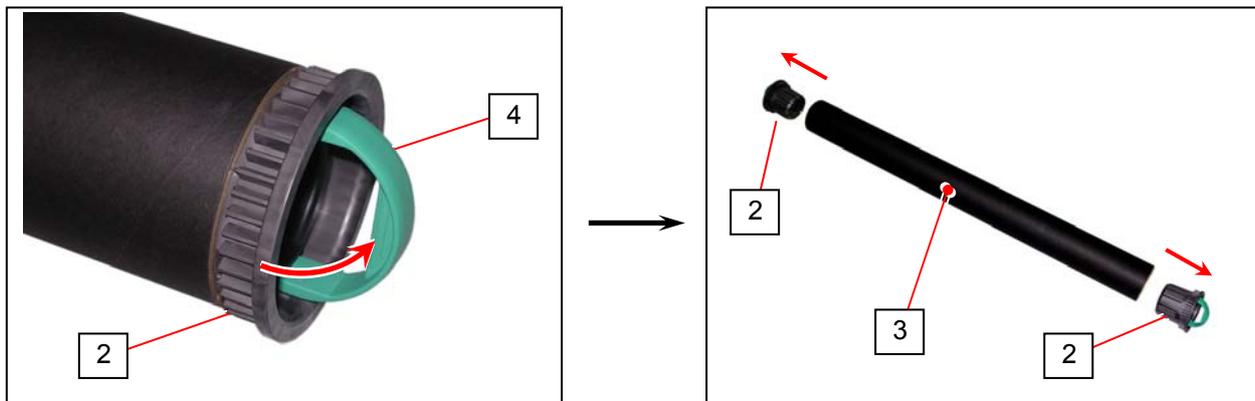
NOTE

A media mis-feed tends to occur just before out of a roll media.

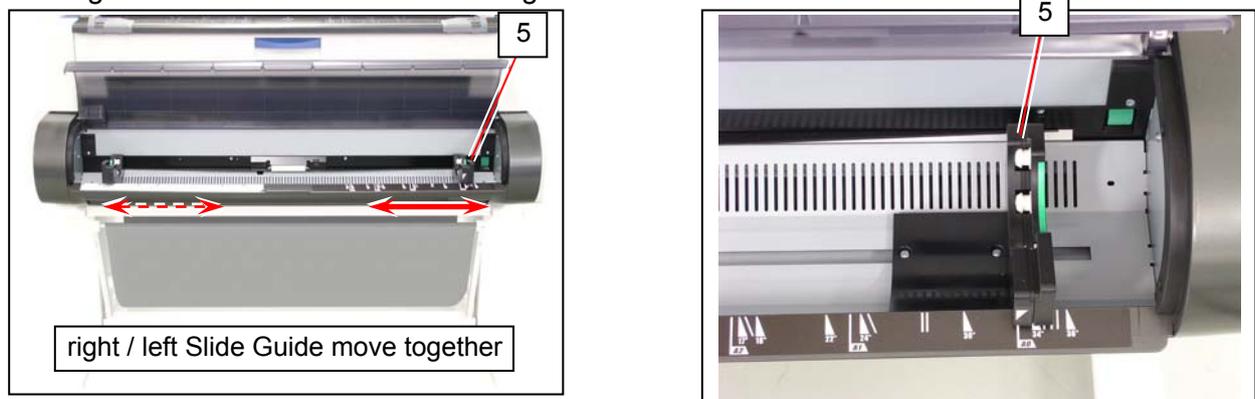
1. Open Roll Deck Cover (1).
Holding both Flanges (2), lift and remove a roll media or an empty roll core (3).



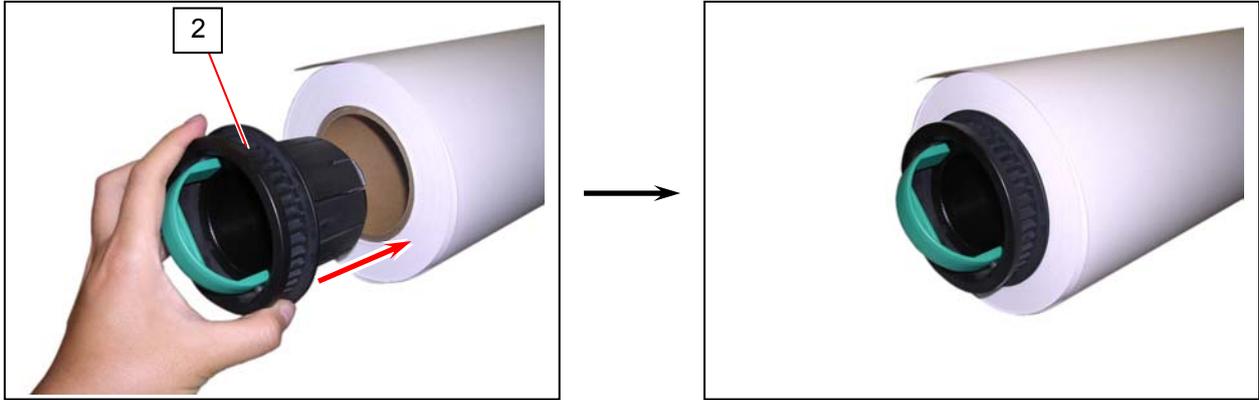
2. Raise the green lever (4) on Flange (2). Remove both Flanges (2) from the roll core (3).



3. Move the right Slide Guide (5) to match your roll media’s width.
The right and left Slide Guides move together.



4. Insert each Flange (2) into both ends of the roll media core to be installed.



! NOTE

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



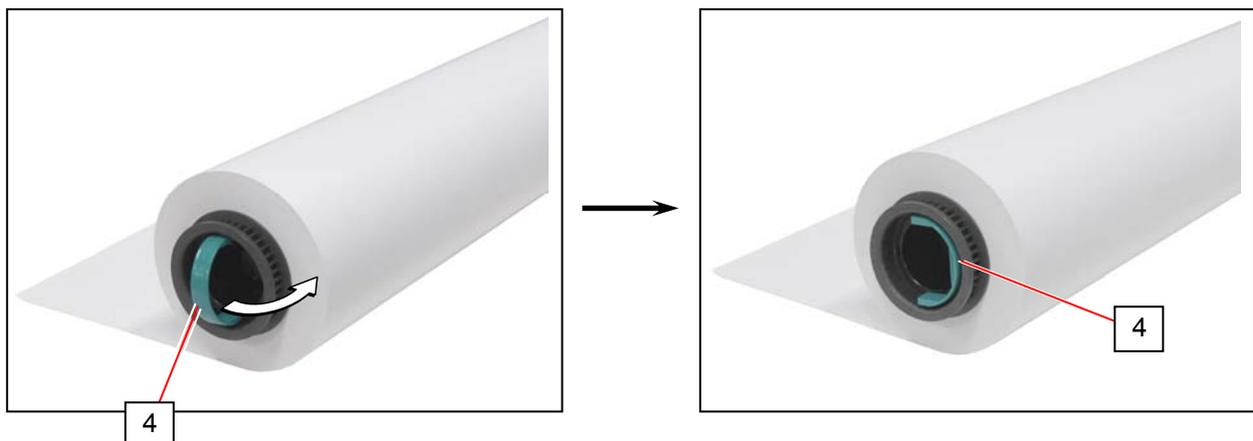
Correct: Fully inserted



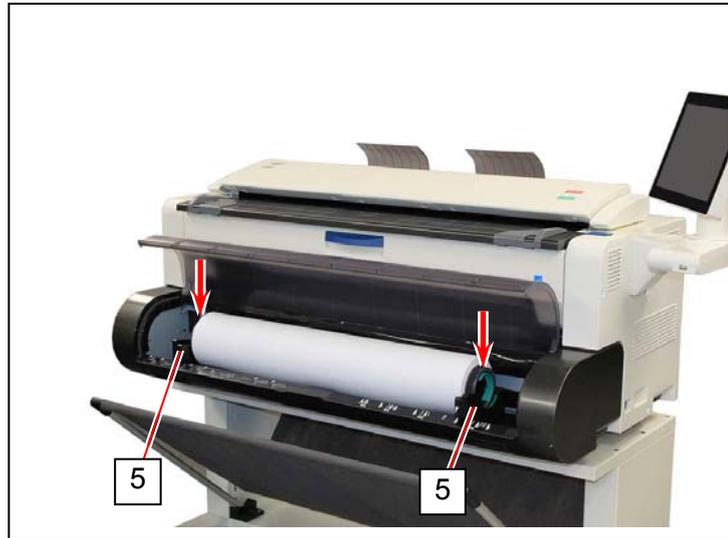
Wrong: not touching roll side

(2) Flange has Stoppers with sharp edge. Be sure not to touch them.

5. Push the green lever (4) down in either way. Position them flat against Flange to secure the roll media.

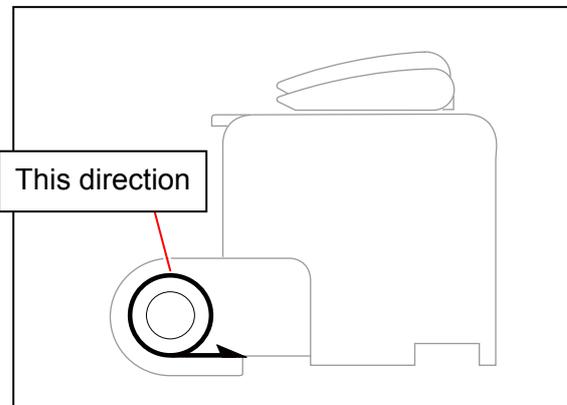


6. Lift the roll media by holding both Flanges. Lower Flanges onto Slide Guides (5) in Roll Deck.

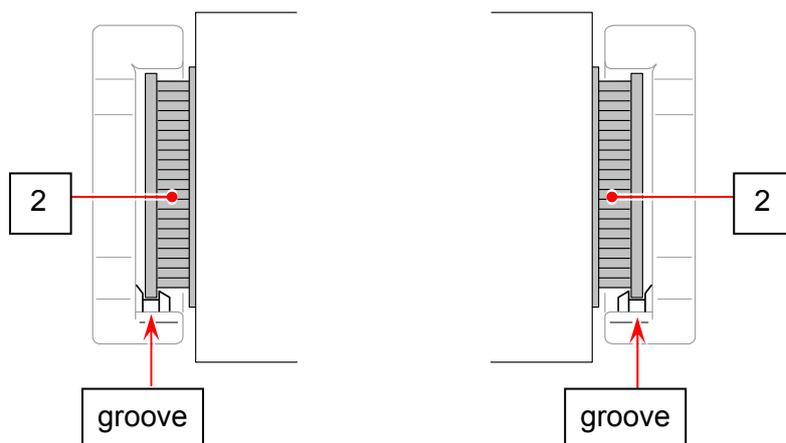


! NOTE

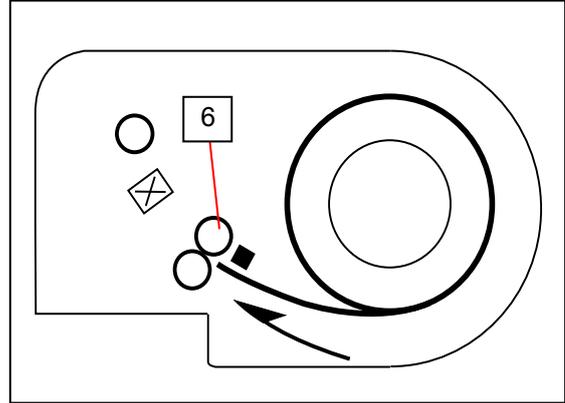
(1) Be careful of the winding direction of the roll media.



(2) The outside rim of Flange (2) should fit into the groove on the Slide Guide. Otherwise the roll media may fall in Roll Deck or result in an incorrect media feeding.



7. Rotate the roll media in the arrow direction and insert the leading edge of the roll media to the media path until it touches the feeding rollers (6). After that, the leading edge will automatically go into the roll media's wait position. This is called "Auto Media Loading".



Reference

Auto Media Loading becomes available while the printer is ready.

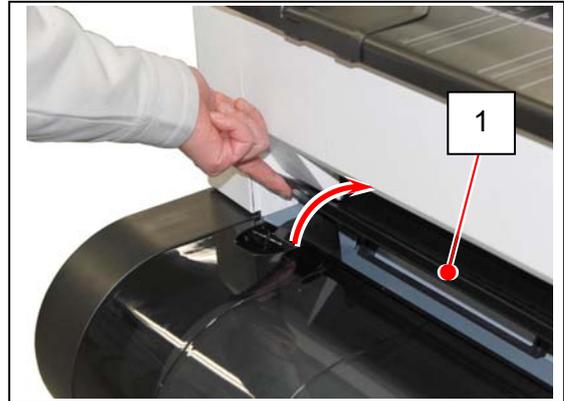
8. Trim the leading edge of the roll media with "Initial Cut" function if necessary. For Initial Cut, see the next page on [2.4 Initial Cut].

2.4 Initial Cut

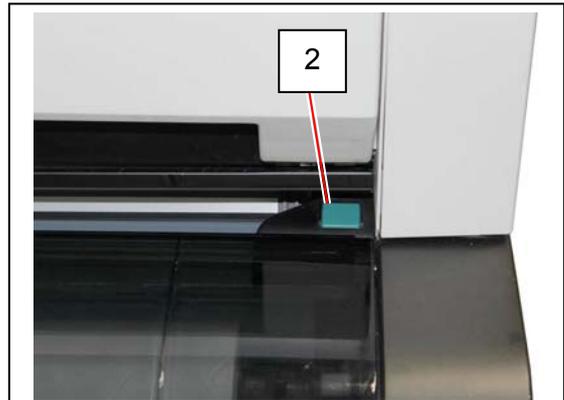
Reference

- (1) Initial Cut is a function to trim the roll media with its leading edge cut off.
- (2) Initial Cut becomes available while the printer is ready.

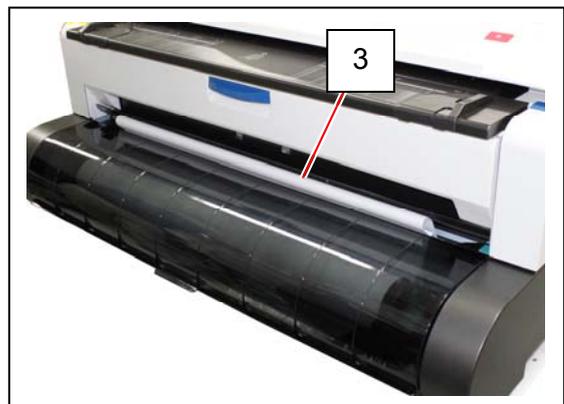
1. Open the Manual Feeder Table (1).



2. Press the green button (2) on the right.



3. The leading edge of the roll media is automatically transported and cut off.
Remove the portion of the media (3) and close the Manual Feeder Table (1).



2. 5 Toner Supply

! WARNING

There is combustible powder in the toner cartridge.
Do not burn up the used toner cartridge.

Reference

When the toner is empty, the UI Screen will display “Toner Empty” sign.
Follow the later procedure (or as noted in the UI’s User Guide) to Supply the Toner with a new one (genuine).

When the UI screen shows “Adding Toner”, follow the instruction to install a genuine Toner Cartridge.

1. Open the Toner Hatch (1) on the rear top.
You do not have to remove the Original Guide.



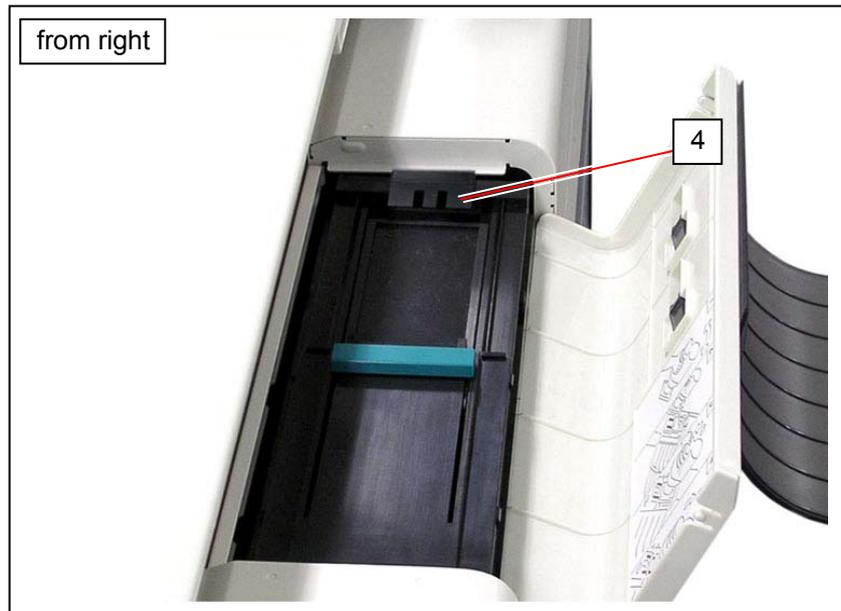
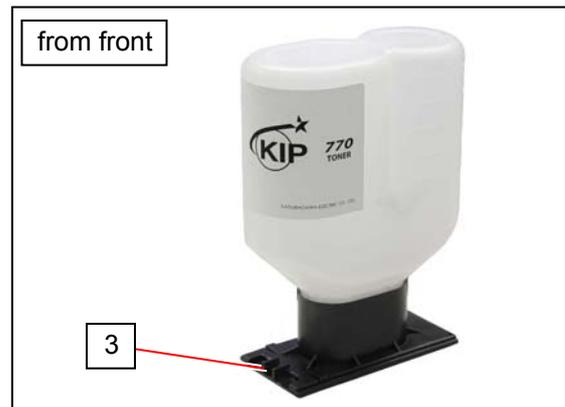
2. Shake the Toner Bottle (2) several times to loosen the toner.



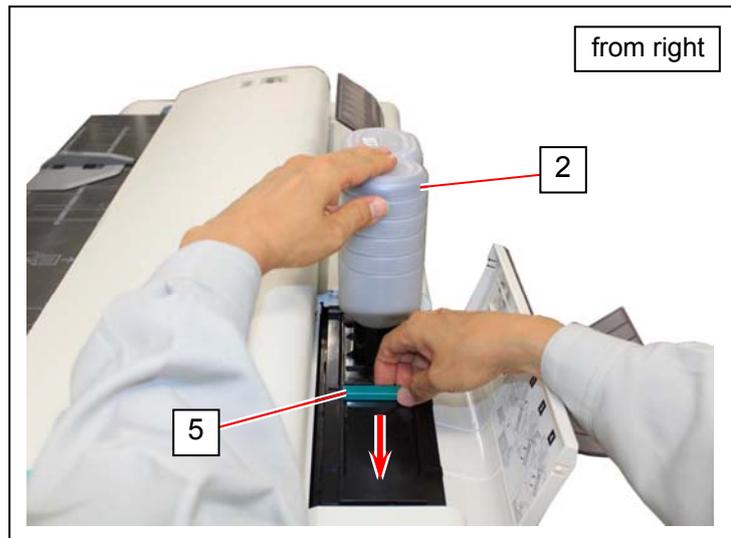
! NOTE

After you shake the Toner Bottle well, proceed the later step 3 and 4 as soon as possible.
Having a pause after step 2 may reduce smoothness of the toner. This would disturb a smooth toner supply from the Toner Bottle to the printer.

3. Put the dent area (3) under the holder (4) to firmly seat the bottom plate of the Toner Bottle (2) to the toner supply position.



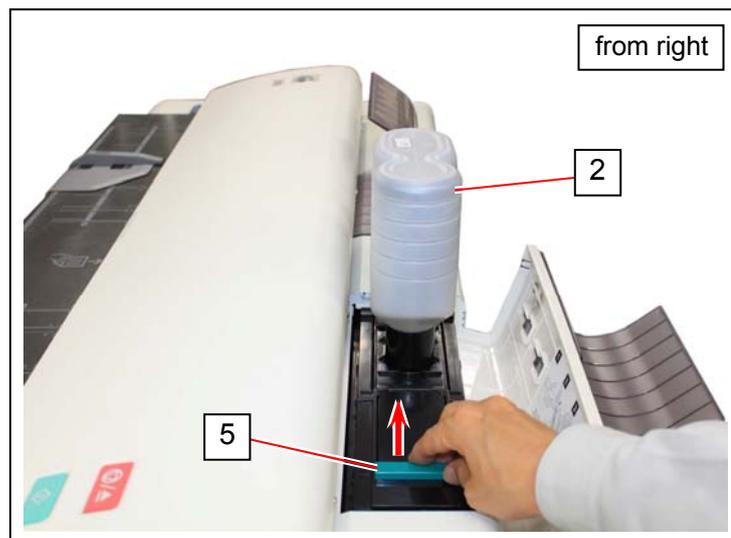
4. With pressing down the Toner Bottle (2), slide the green lever (5) to the arrow direction until it stops. When it stops, wait 10 seconds as it is.



! NOTE

Gently press down the Toner Bottle. Pressing too much makes the lever (5) much heavier.

5. Slide the green lever (5) to the original position. Remove the Toner Bottle.



! NOTE

It is impossible to remove the Toner Bottle unless the lever (5) completely moves to the original position.
Do not attempt to remove the Toner Bottle by force if the lever is not at the original position.
Doing so may damage toner supply system.

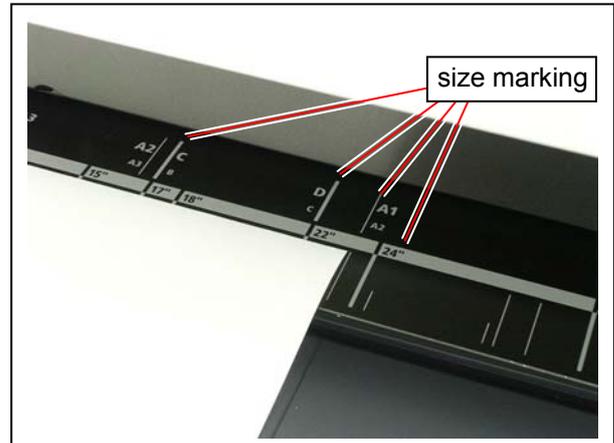
6. Close the Toner Hatch (1).



2. 6 Cut Sheet Media

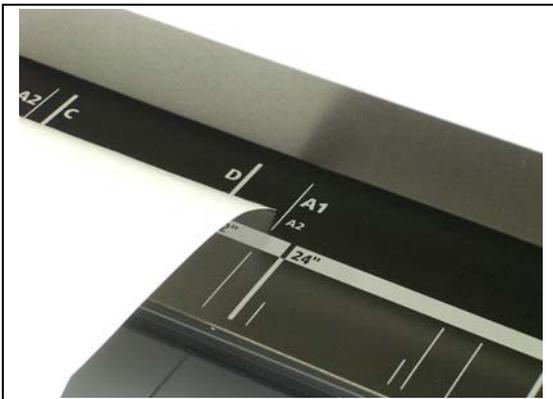
There are several size markings on the table of Bypass Feeder which indicate possible feed positions.

Place the cut sheet on the table between its concerning size markings then insert it into the Bypass Feeder. When the leading edge touches the feeding roller, the printer automatically carries and sets the paper 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



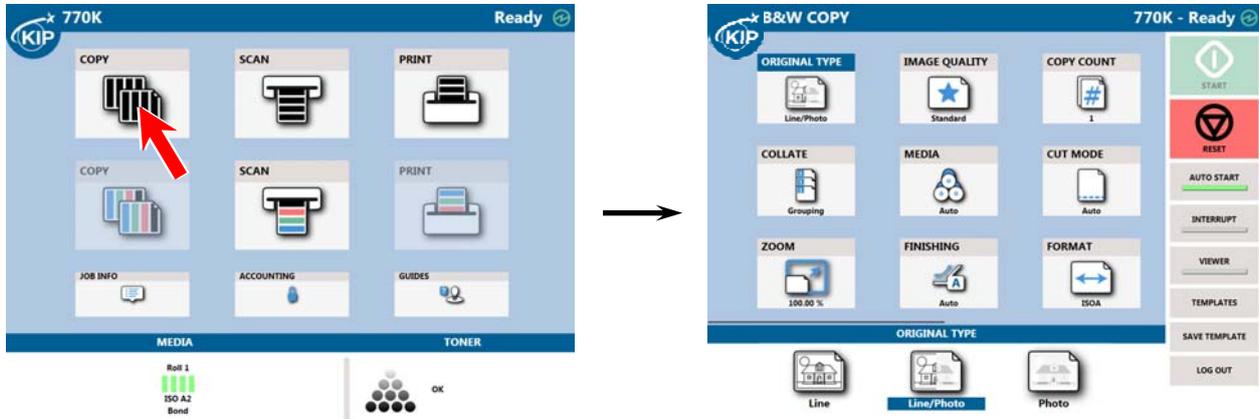
Wrong: curl up

(2) Setting a cut sheet to the Bypass Feeder while the printer is processing a print job cause a paper jam.

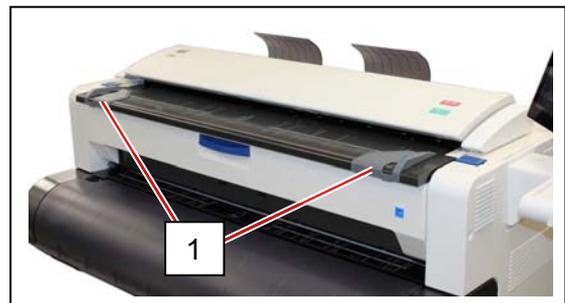
2.7 Copying

Please refer to the detailed procedure for making a copy, which is included in "GUIDES" in UI Home screen as well.

1. Press [COPY] in UI Home screen.



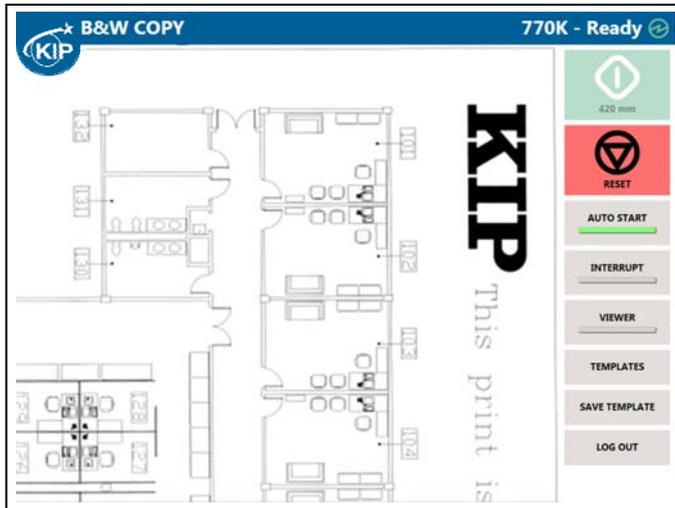
2. There are several size markings on Original Table which indicate possible feed positions. Line up Original Guides (1) with the proper markings according to the original width.



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

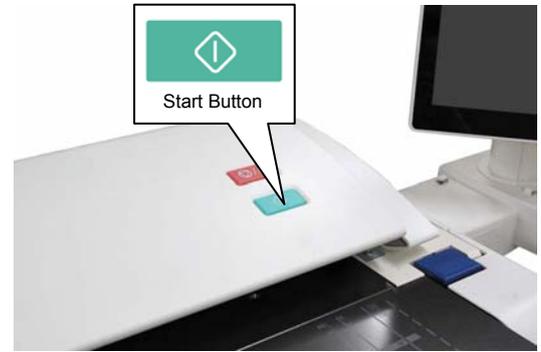


4. The KIP 770 will start the copy process.



Reference

Pressing START button may be required to start the scan according to the scanner's controller software. For further details of "Auto Start", see the software's document.

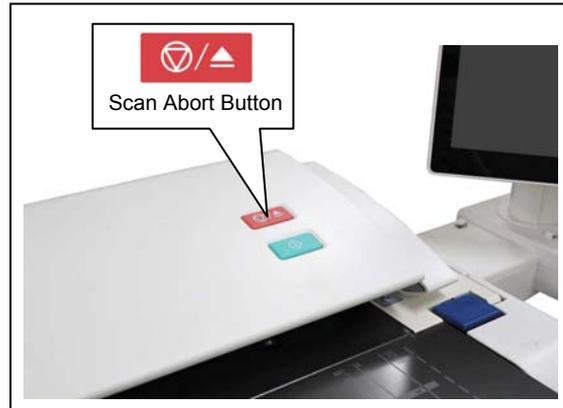


NOTE

The scanner unit does not accept originals automatically during Sleep Mode. Tap on the UI screen and then insert an original.

2. 8 Stop of Scan or Copy

1. If necessary, press the Scan Abort Button on the Scanner Unit to immediately stop the original while making a copy or scan.



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

NOTE

Do not pull back or hold down the original on Original Table as an attempt to stop feeding it through Scanner Unit.

2.9 Canceling Sleep Mode

The KIP 770 has two Sleep Modes to reduce the power consumption. The KIP 770 will enter Sleep Mode after a certain period of inactivity.

In the default setting;

- Warm Sleep Mode will start after a 15 minute of inactivity in order to reduce the power supply for Fuser Unit.
- Cold Sleep Mode will start after a 60 minute of inactivity to stop the power supply for Fuser Unit and some other components.

Sleep Mode is canceled and the machine gets ready when;

- the machine receives a print job through the network.
- you tap on the UI screen then an original is inserted the scanner unit.



NOTE

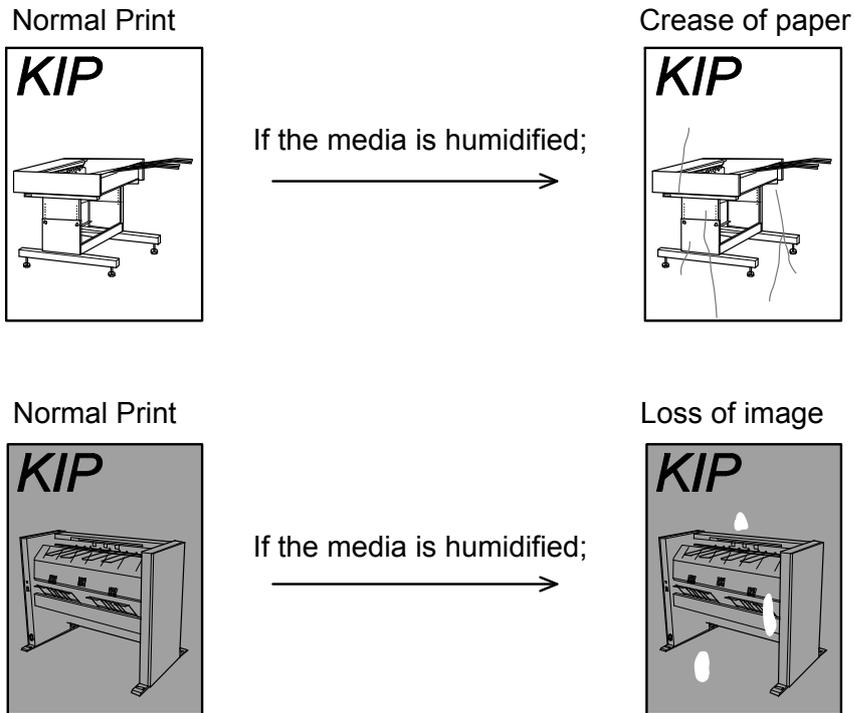
(1) It may take time for the machine to get ready.

(2) Tapping on the UI screen can cancel the screensaver but the KIP 770 needs to recover temperature on Fuser Unit.
It may need another waiting time to start warming up for printing.

(3) Recommended Default Delay Times: 60min

2. 10 Dehumidifying Roll Media (Option)

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

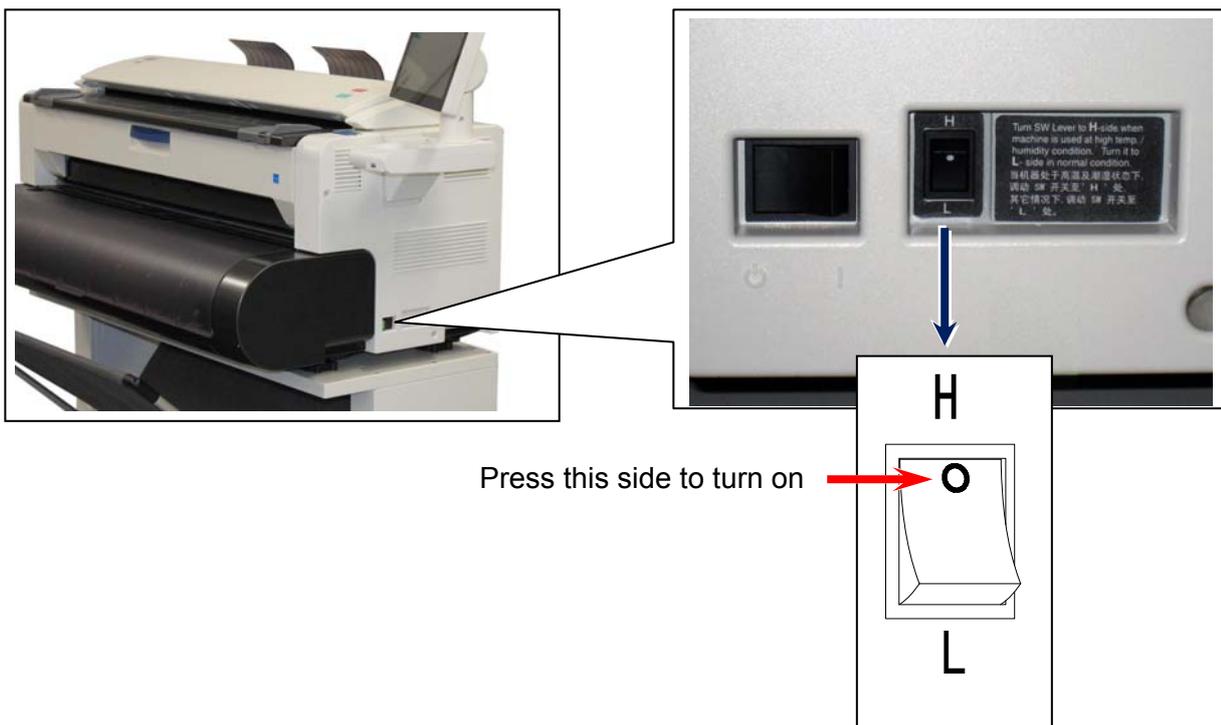


Turn on the Dehumidify Heater if the room air has too much humidity (65% or higher) to prevent the above kinds of print defect.

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

The KIP 770 has a built-in Dehumidify Heater (option).

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.)



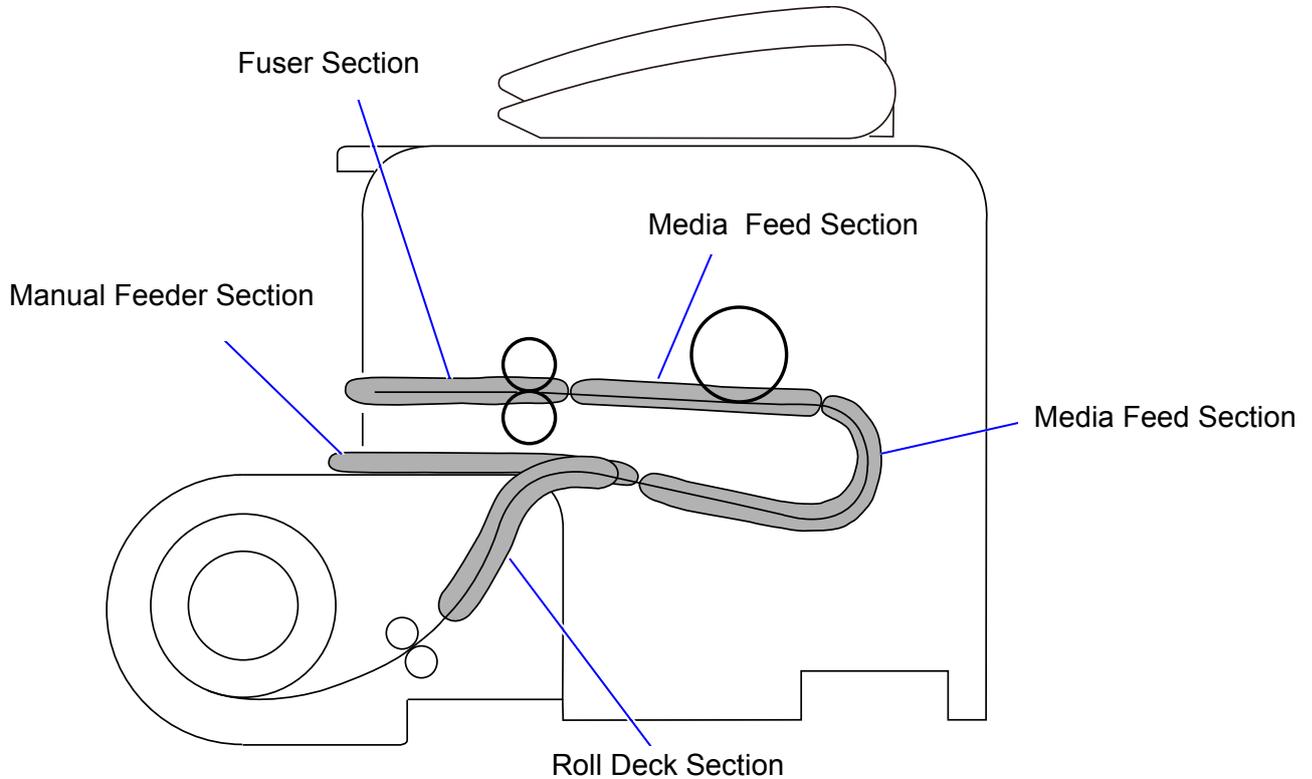
Chapter 3

Error Correction

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3.1.2 Manual Feeder Section Jam (Mid Feed Mis-feed)	3- 5
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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 " xxxx Mis-feed " is shown below.

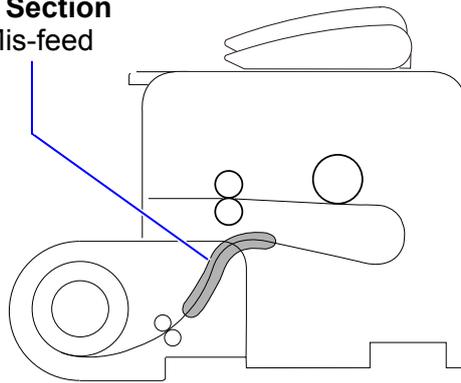


NOTE

- (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 Mis-feed)

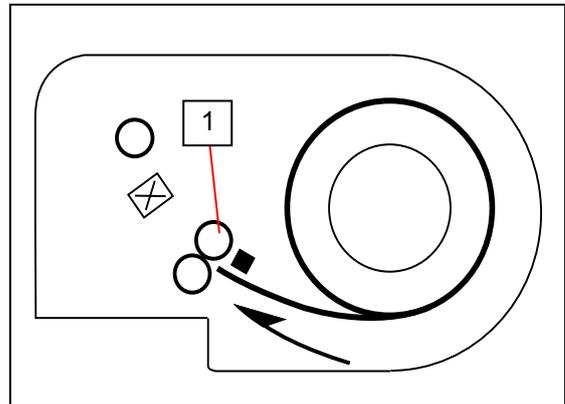
Roll Deck Section
- Deck 1 Mis-feed



1. Open the Roll Deck Cover.
Rewind the roll onto the media core.



2. Rotate the roll media in the arrow direction and insert the leading edge of the roll media to the media path until it touches the feeding rollers (1).
After that, the leading edge will automatically go into the roll media's wait position.

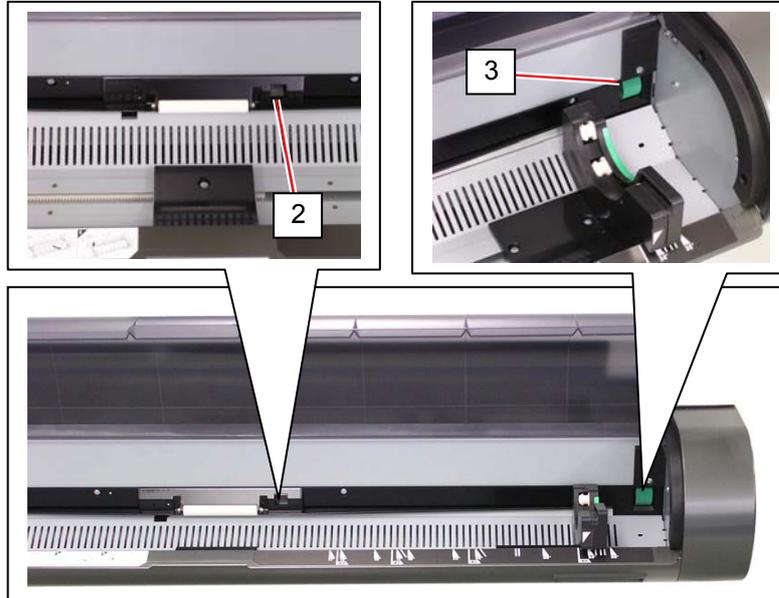


3. Close the Roll Deck Cover.

Reference

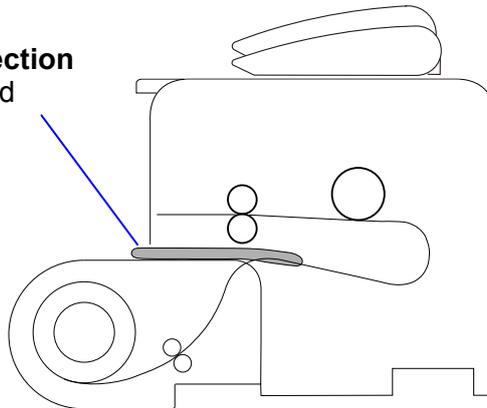
If your roll media's end is not fixed to the core (by glue or a tape), a small portion of the media may remain in the media path of the Roll Deck at a roll empty. The printer does not show any mis-feed error code against the portion.

So please check for the portion in the media path through the square window (2) in the middle of the Roll Deck. If you can see a portion, rotate the green roller (3) on the right to the arrow direction to remove it.



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

Manual Feeder Section
- Mid Feed Mis-feed



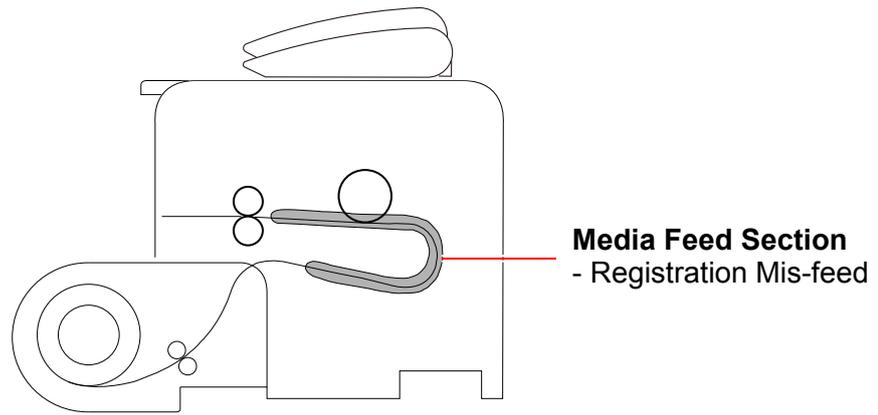
1. Pull out the mis-feed cut sheet from the Manual Feeder.



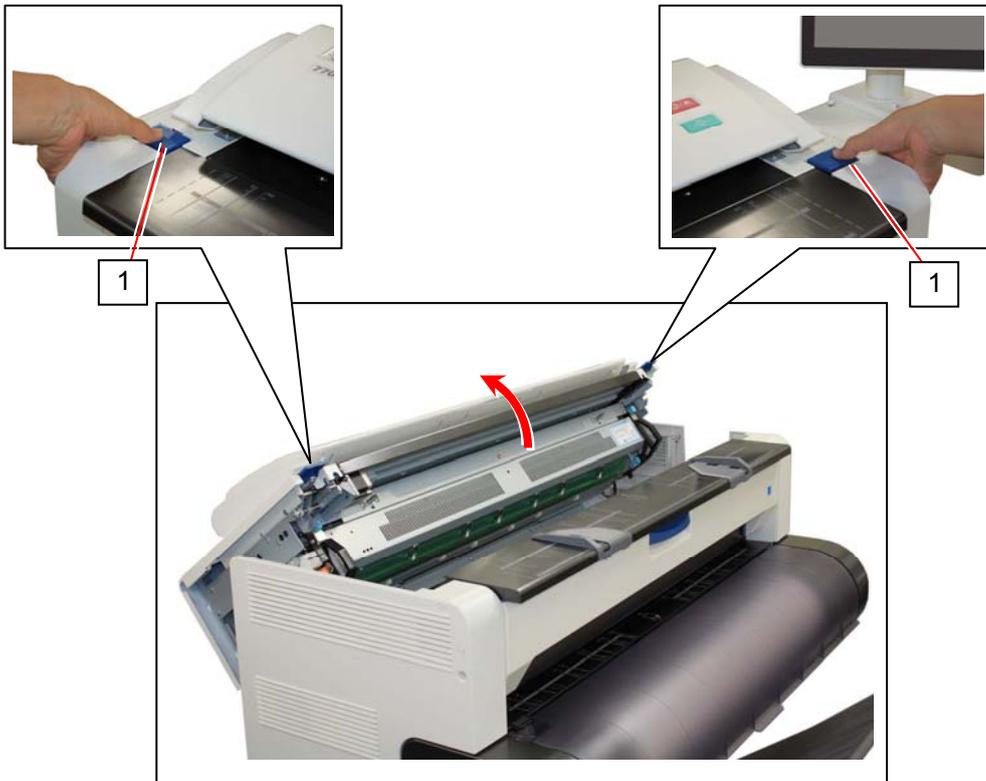
! NOTE

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)



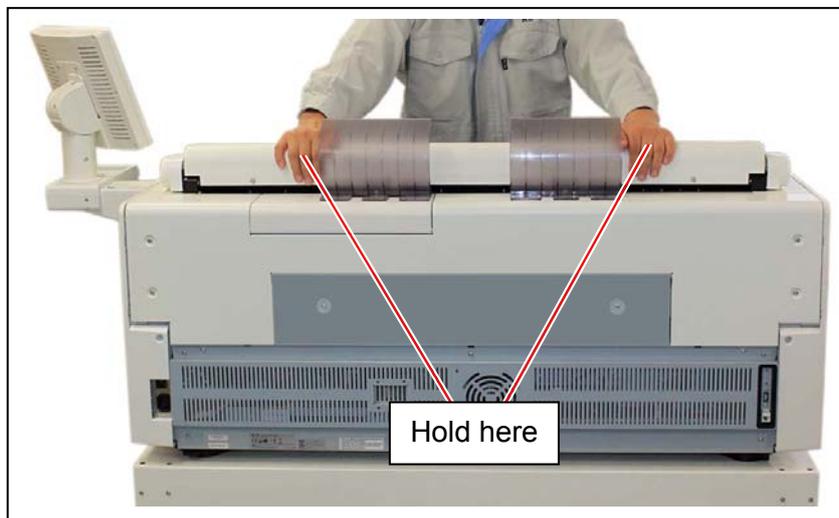
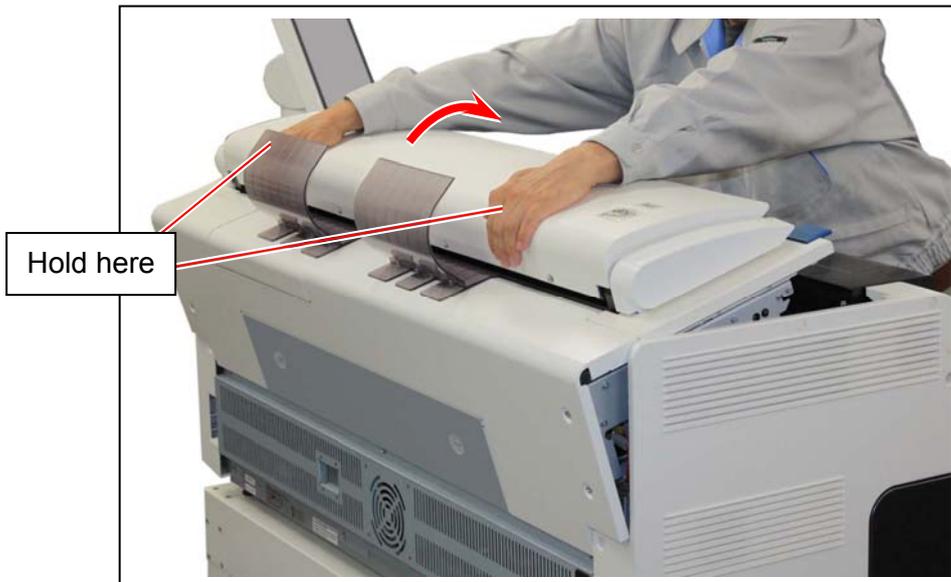
1. Press down the blue levers (1) on both sides to unlock and open the Upper Unit.



2. Remove the mis-feed media.

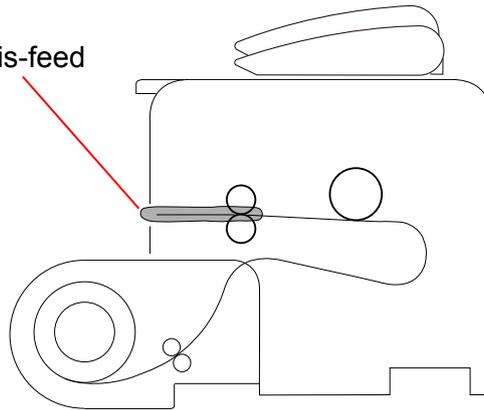


- Put your hands on the rear rim of the scanner unit just as you hold the Upper Unit. Push the entire unit down to the arrow direction.

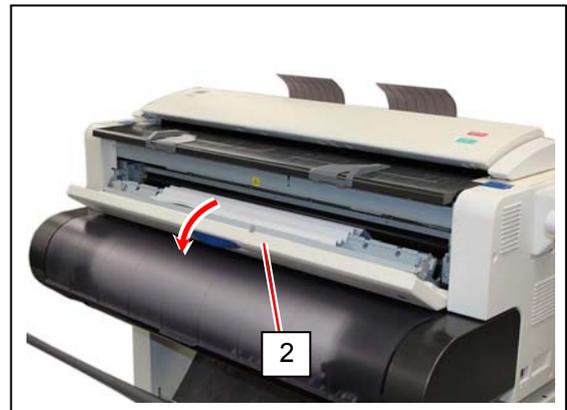


3. 1. 4 Fuser Section Jam (Separation Mis-feed)

Fuser Section
- Separation Mis-feed



1. Hold the blue handle (1) and open the Fuser Cover (2).



2. If it is possible, pull and remove the mis-feed media.

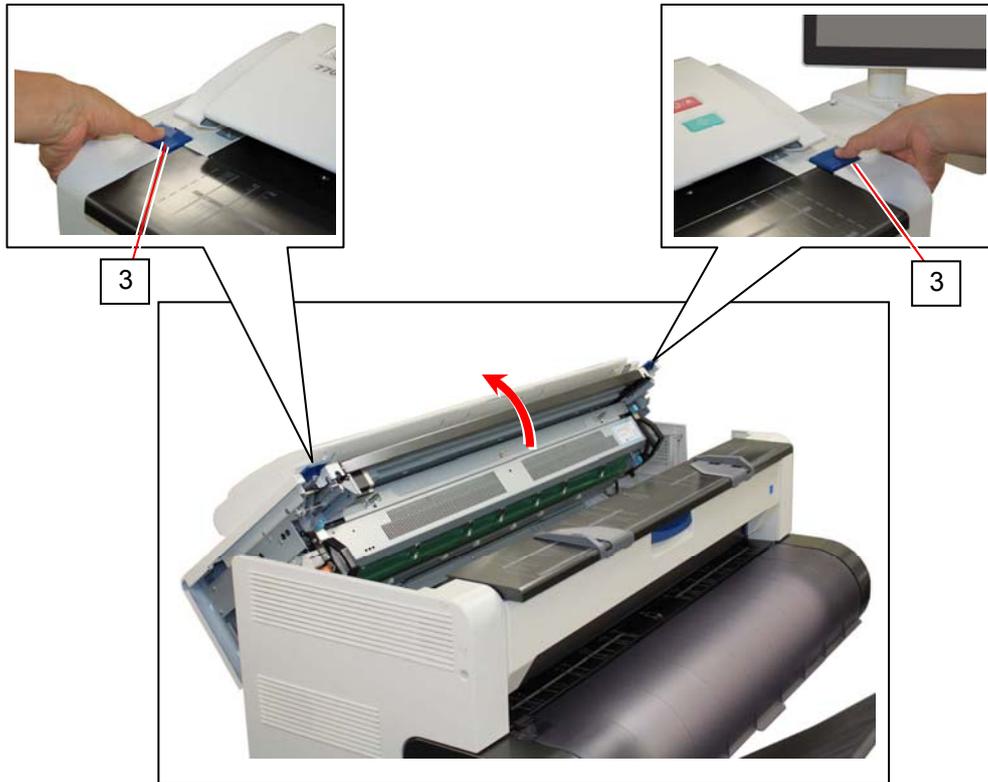
If little amount of the leading edge area is coming to the Fuser and you cannot pull it out, or if the trailing edge remains deep to be caught in the printer, do not pull it by force. Leave it there and go to the next step.



! 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.

3. Press down the blue levers (3) on both sides to unlock and open the Upper Unit.

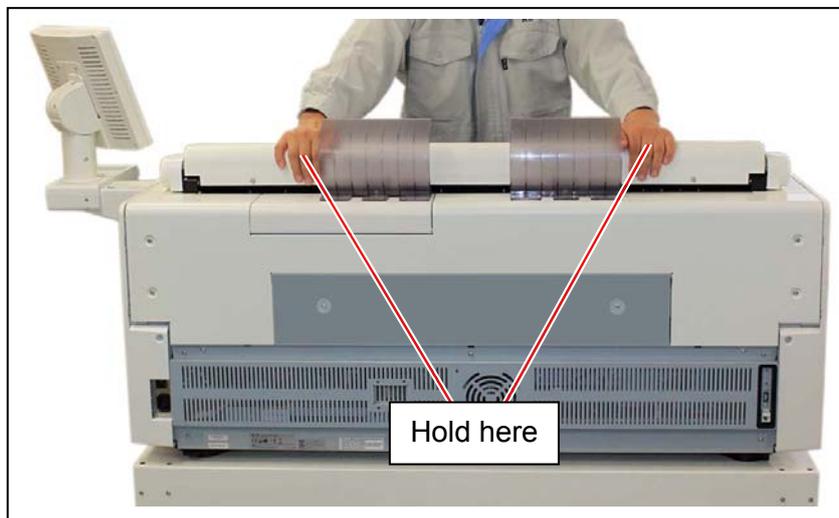
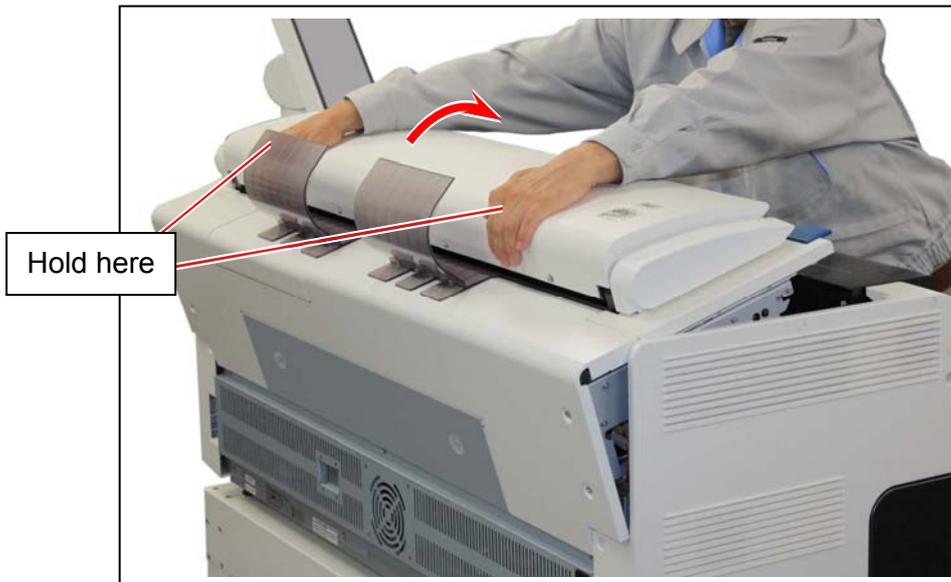


4. Remove the mis-feed media.



5. Close the Exit Door.

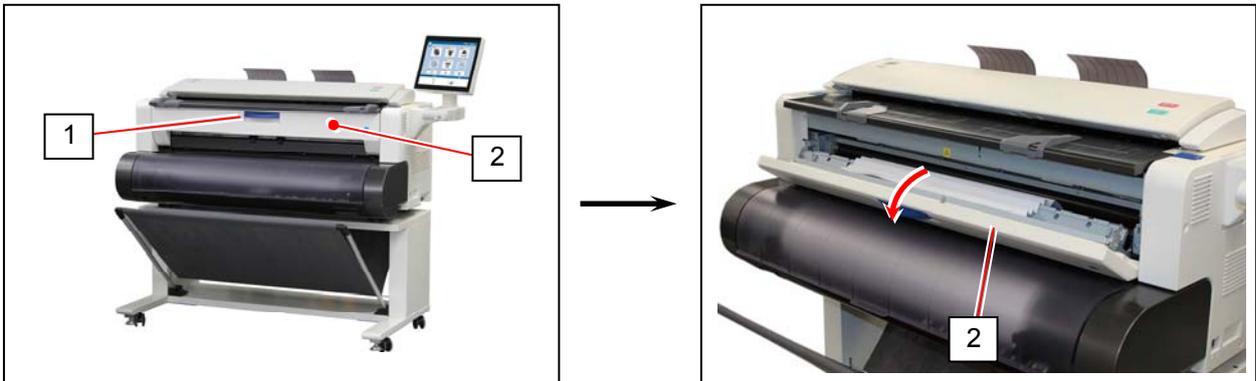
6. Put your hands on the rear rim of the scanner unit just as you hold the Upper Unit. Push the entire unit down to the arrow direction.



3. 1. 5 Door Open while printing

When opening the Fuser Cover, the Manual Feeder Table or the Upper Unit while printing, the printer stops feeding the media and the media is stuck in the machine. Please remove the stuck media by the followings.

1. Hold the blue handle (1) and open the Fuser Cover (2).



2. If it is possible, pull and remove the mis-feed media.

If little amount of the leading edge area is coming to the Fuser and you cannot pull it out, or if the trailing edge remains deep to be caught in the printer, do not pull it by force. Leave it there and go to the next step.



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.

3. Press down the blue levers (3) on both sides to unlock and open the Upper Unit.

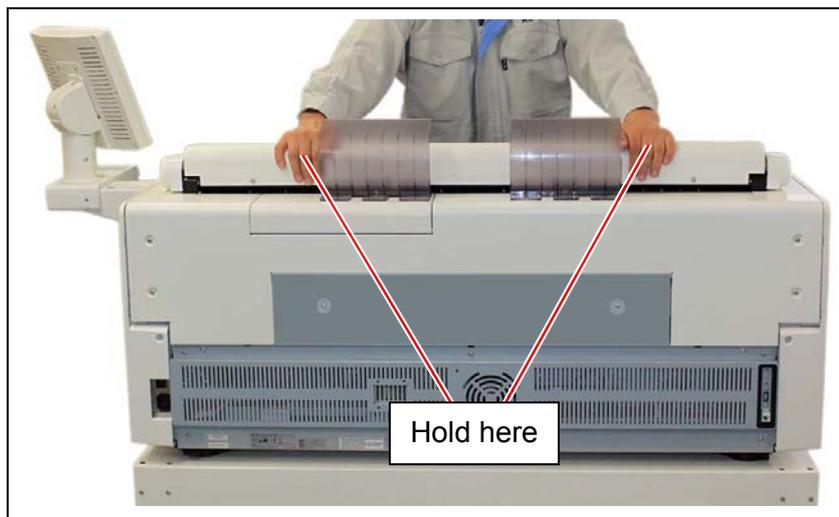
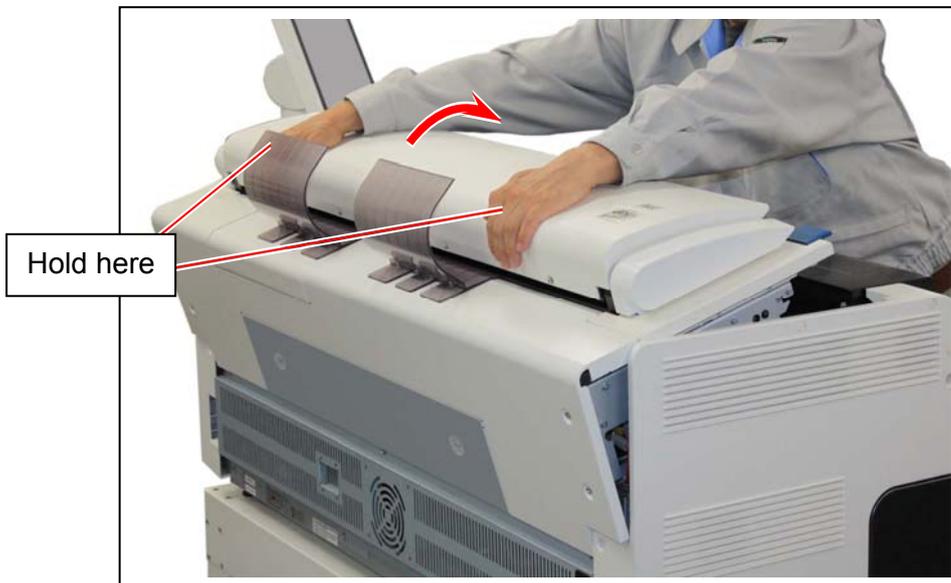


4. Remove the mis-feed media.
If the mis-feed media does not exist, go to the next step.



5. Close the Exit Door.

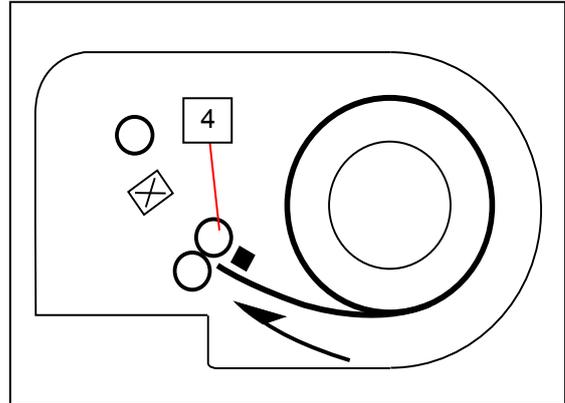
6. Put your hands on the rear rim of the scanner unit just as you hold the Upper Unit.
Push the entire unit down to the arrow direction.



7. Open the Roll Deck Cover.
Rewind the roll onto the media core.



8. Rotate the roll media in the arrow direction and insert the leading edge of the roll media to the media path until it touches the feeding rollers (4).
After that, the leading edge will automatically go into the roll media's wait position.

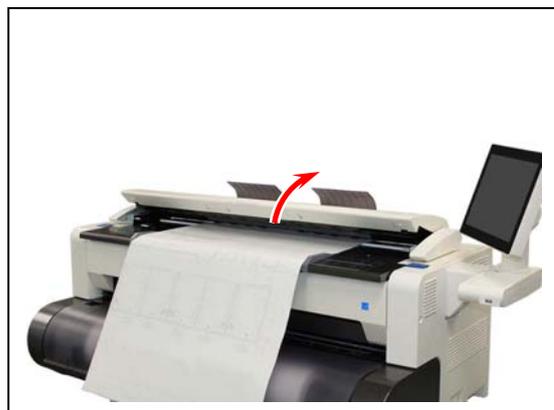
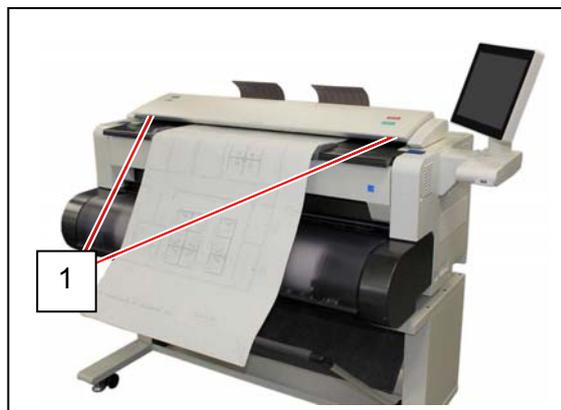


9. Close the Roll Deck Cover.

3. 1. 6 Original Jam

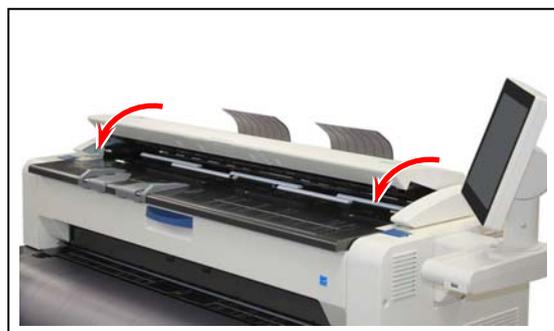
If an original is mis-fed while scanning, the UI screen shows “Original Jam”. Follow the instruction below to remove the mis-fed original.

1. Lift up both sides (1) of the Scanner Unit



2. Remove a mis-fed original.

3. Gently press the Scanner Unit down and firmly close it.



NOTE

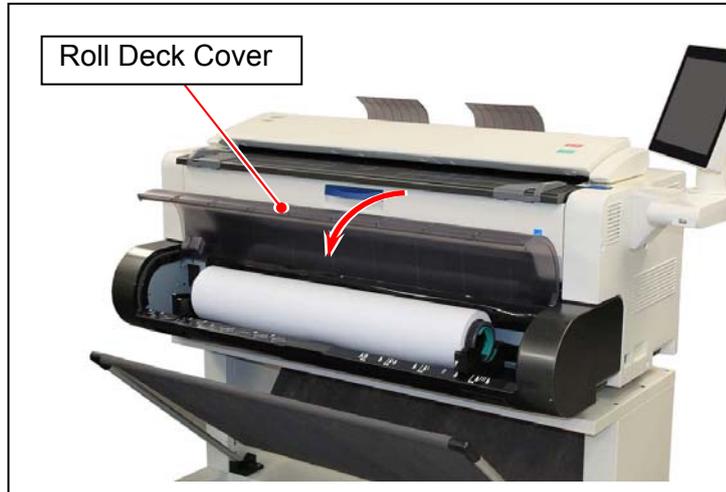
Press down the Scanner Unit on both sides to close it.
Do not close it by pressing only one side down.

3. 2 Door Open

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

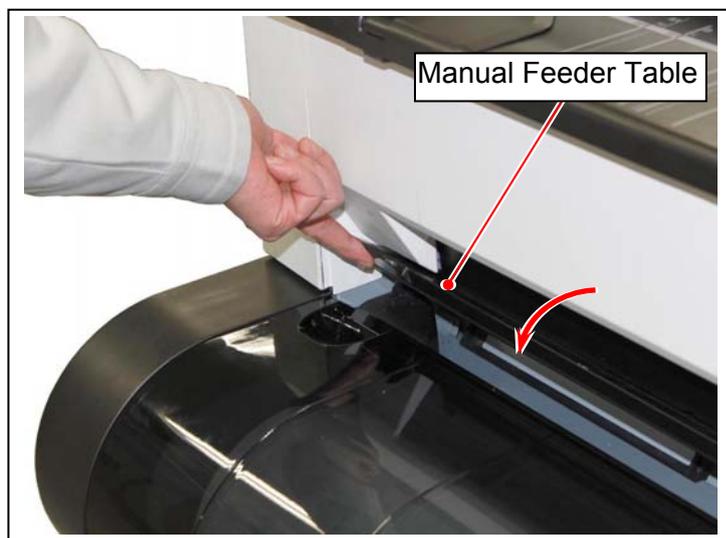
3. 2. 1 Roll Deck Cover (Deck 1 Open)

Close the Roll Deck Cover securely to clear "Deck 1 Open".



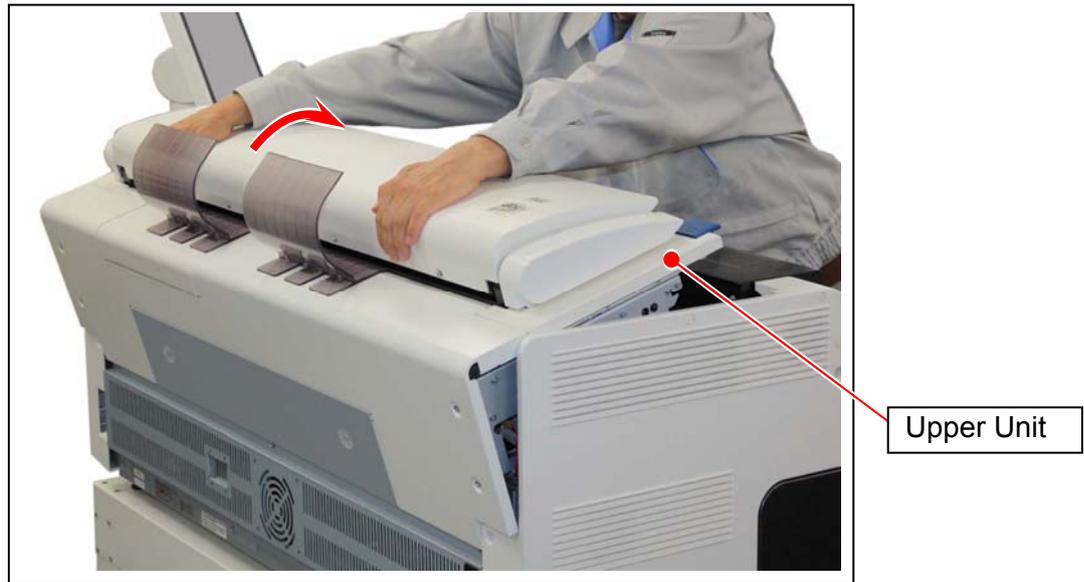
3. 2. 2 Manual Feeder Table (By-Pass Open)

Close the Manual Feeder Table securely to clear "By-Pass Open".



3. 2. 3 Upper Unit (Front Cover Open)

Holding the rear side of the Scanner Cover, close the Upper Unit securely to clear "Front Cover Open".

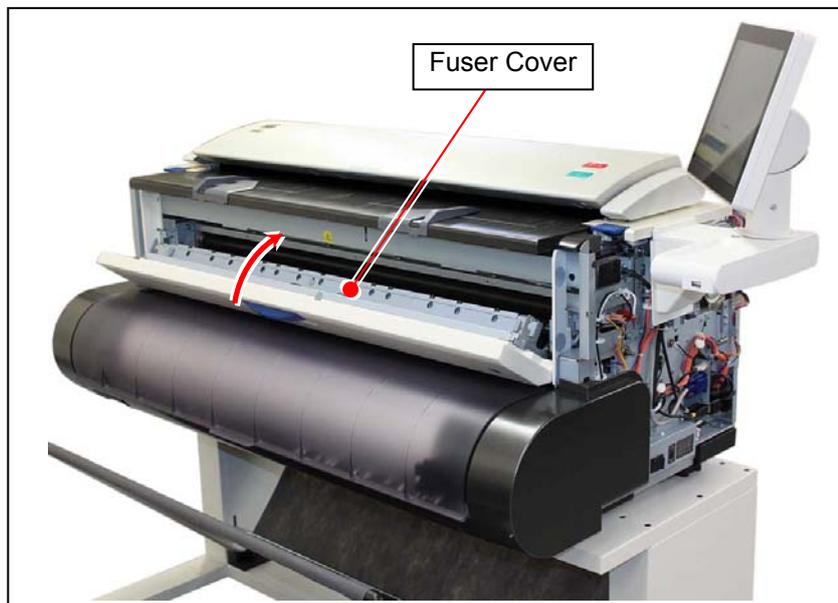


NOTE

There is an interlock switch of the Upper Unit on both sides.
In case that "Door Open" is still displayed even when each door is closed securely, either interlock switch may be opened.
For this case, open the Upper Unit once, and then close it securely.

3. 2. 4 Fuser Cover (Fuser Cover Open)

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



3. 2. 5 Scanner Unit (Scanner feeder open)

The UI screen shows “Scanner feeder open” if the Scanner Unit is open. (not closed properly)
For closing the Scanner Unit, see [3.1.6 Original Jam].



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 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 Toner Supply].

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.

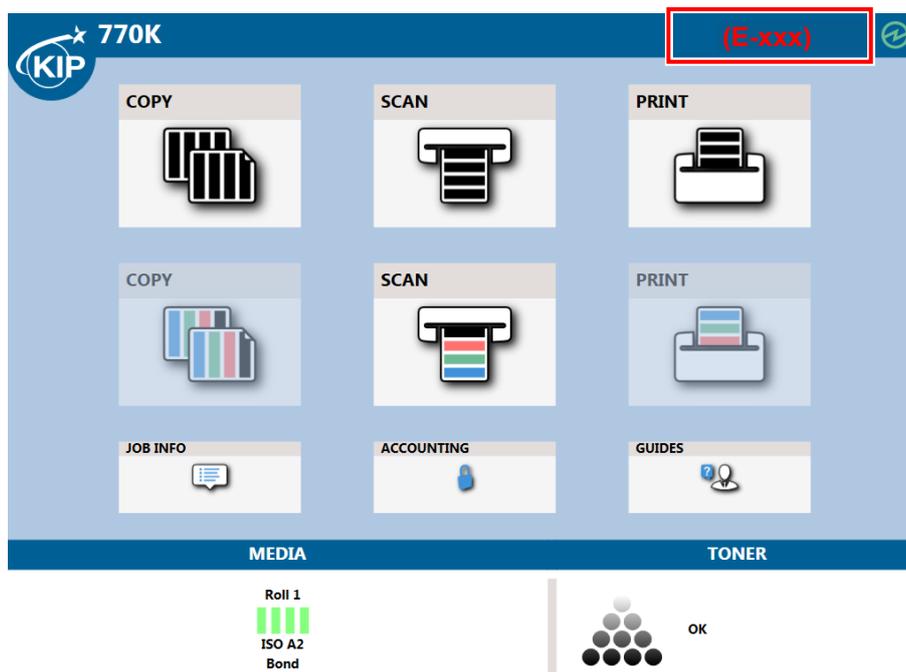
Call the service staff immediately as these problems can be fixed by a well trained technician only.

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.

Service Call Error

- Sensor Error
- Motor Error (Main Motor, Paper Tray Motor)
- Cutter Error
- Developer Error
- Fusing Temperature Error
- Fuse Error
- Counter Error
- Output Error (Image Corona, Separation Corona, Transfer Corona)
- High Voltage Power Supply Error
- Density Sensor Error
- Eraser Lamp Error

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



Chapter 4

Maintenance

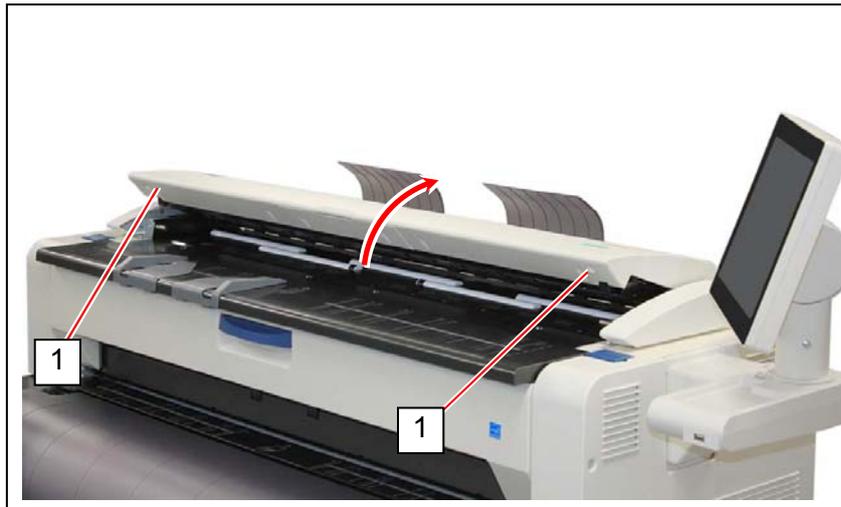
4.1	Scanner Unit	page
4.1.1	Scan Glass, Feed Roller, Guide Plate	4-2
4.1.2	Sensor	5
4.2	Touch Screen	4-7

4. 1 Scanner Unit

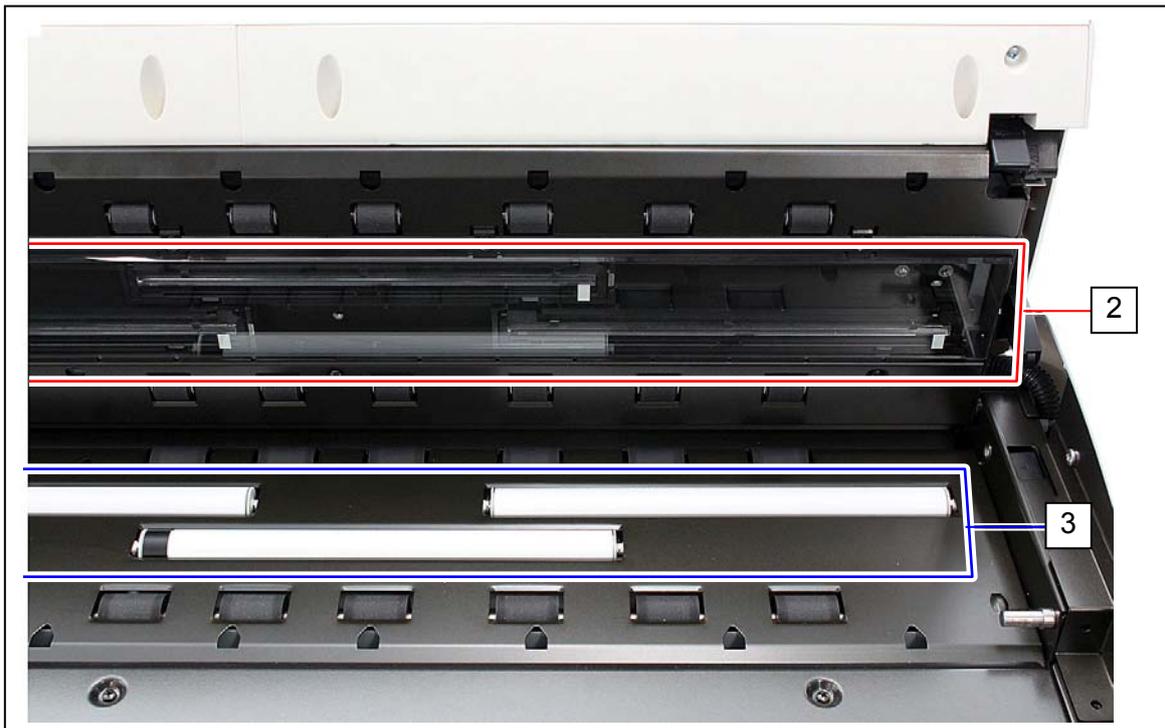
4. 1. 1 Scan Glass, Feed Roller, Guide Plate

It is recommended to clean each Scan Glass, Feeding Rollers and Guide Plates as the scan/copy image may become defective if these parts are dirty.

1. Turn off KIP 770.
2. Lift up both sides (1) of the Scanner Unit.



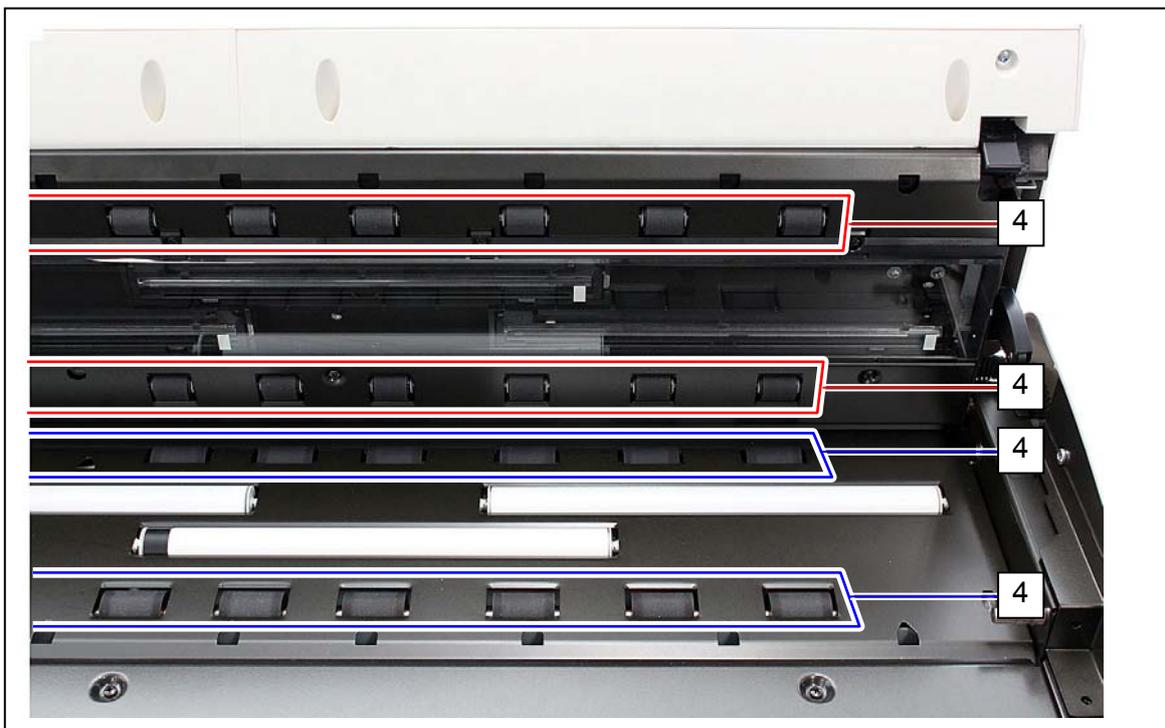
3. Gently wipe the Scan Glass (2) and Feed Rollers (white) (3) with a soft cloth. Equal mixture of water and neutral detergent can be used.



⚠ NOTE

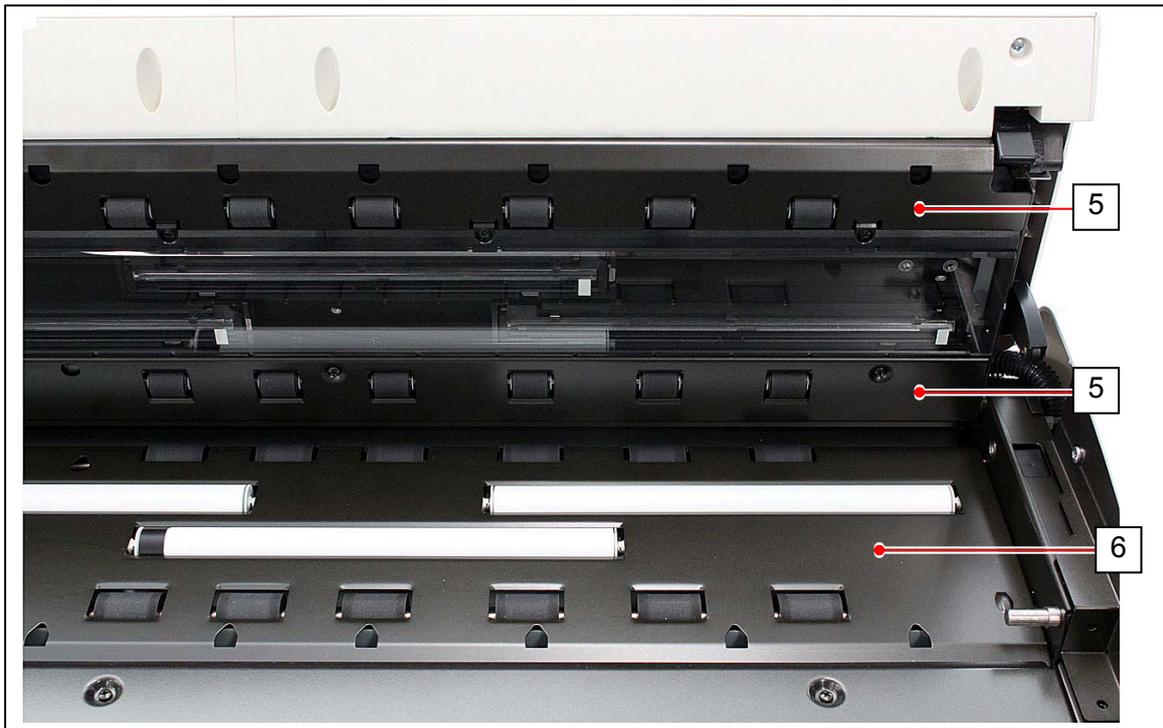
Do not use organic solvent, glass cleaner and anti-static spray for the cleaning.

4. Wipe the Feed Rollers (rubber) (4) with a dry cloth.

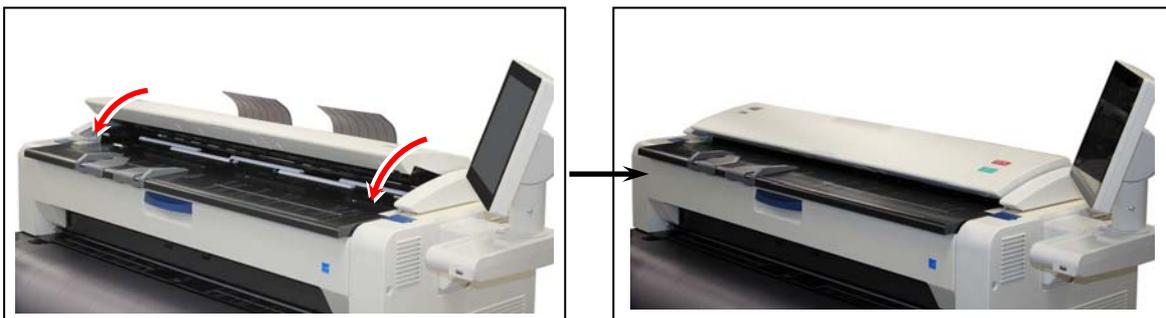


5. Wipe dry the Feeding Rollers.

6. Wipe the Upper Guide Plate (5) and the Lower Guide Plate (6) with a dry cloth.



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



! **NOTE**

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

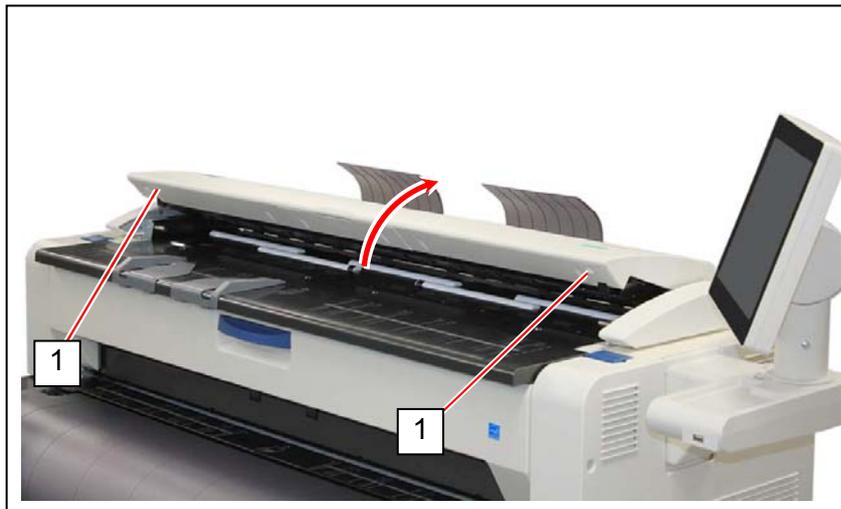
4. 1. 2 Sensor

If Sensors are dirty, the original may be detected incorrectly.
Perform cleaning or as needed.

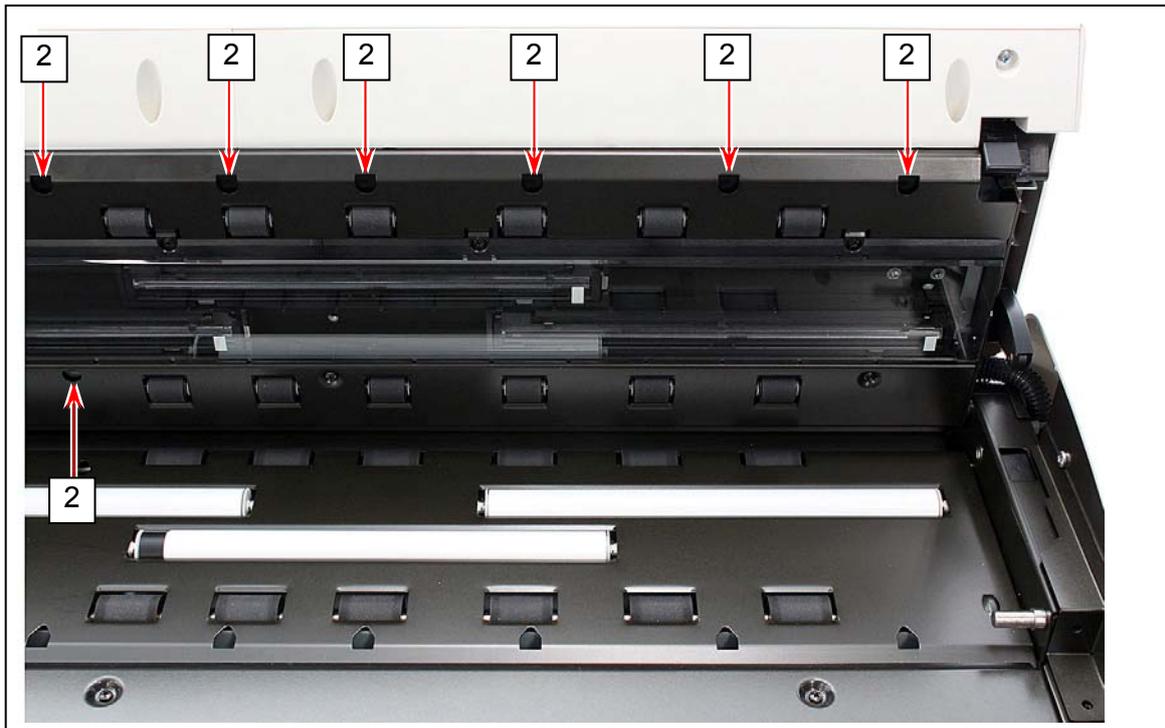
! NOTE

For ease of visual check, this document shows the Upper Unit fully open (not actual wide).

1. Turn off KIP 770.
2. Lift up both sides (1) of the Scanner Unit.



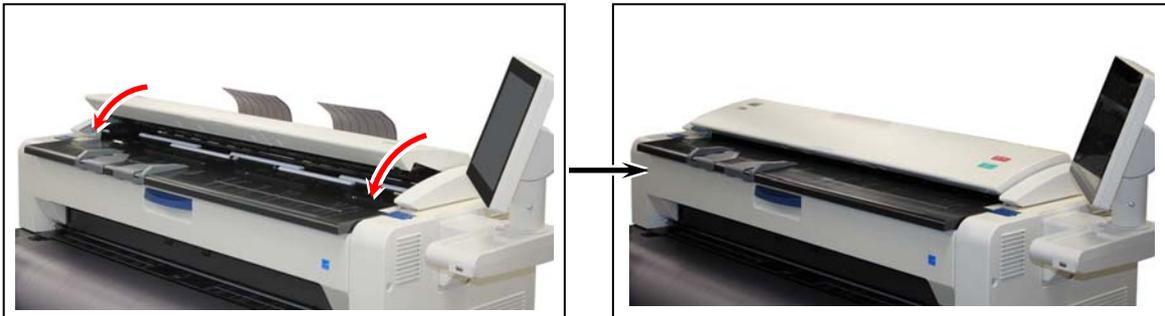
3. Gently wipe Sensors (2) with a dry cotton bud.



! NOTE

Do not use water, organic solvent, glass cleaner or antistatic spray for cleaning.

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



! NOTE

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

4.2 Touch Screen

1. Wipe the Touch Screen with a dry cloth.



! NOTE

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

Multi-Function Printer KIP 770 Hardware Operation Guide

Version A.1 (Issued on April 13, 2015)

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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