Thank you for purchasing the KIP 800 Series.

This Hardware Operation Guide contains functional and operational explanations for the KIP 800 Series. 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 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 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 800 Series is an ENERGY STAR qualified multifunction device.

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.

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 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.
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:
   220 to 240V plus 6% or minus 10%, 50/60Hz, 20A 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.
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.
POWERCORD 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:**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Standard</th>
<th>Rating</th>
<th>Usually found in</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC60320:C19</td>
<td>20A 250V (UL)</td>
<td>16A 250V (IEC)</td>
<td></td>
</tr>
</tbody>
</table>

**Plug Type: Model Rating 220-240V**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Standard</th>
<th>Rating</th>
<th>Usually found in</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEMA6-20</td>
<td>20A 250V</td>
<td></td>
<td>North America (UL Listed)</td>
</tr>
<tr>
<td>CEE7/7</td>
<td>16A 250V</td>
<td></td>
<td>European countries</td>
</tr>
<tr>
<td>KS C 8305</td>
<td>16A 250V</td>
<td></td>
<td>Korea</td>
</tr>
<tr>
<td>AS/NZS 3112</td>
<td>16A 250V</td>
<td></td>
<td>Australia New Zealand</td>
</tr>
<tr>
<td>GB1002</td>
<td>16A 250V</td>
<td></td>
<td>China</td>
</tr>
<tr>
<td>IRAM 2073</td>
<td>16A 250V</td>
<td></td>
<td>Argentina</td>
</tr>
</tbody>
</table>

**Cord Type**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Rating</th>
<th>Usually found in</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJT 3X12AWG Long &lt;4.5m</td>
<td>20A 250V</td>
<td>North America (UL Listed)</td>
</tr>
<tr>
<td>HO5VV-F 3X1.5mm²</td>
<td>16A 250V</td>
<td>European countries Argentina</td>
</tr>
<tr>
<td>RVV 3X1.5mm²</td>
<td>16A 250V</td>
<td>China</td>
</tr>
</tbody>
</table>
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.
   220V - 240V plus 8% or minus 10%, 50/60Hz, 20A 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.
   When you open the Upper Unit to remove a mis-feed, do not expose the Photoconductive Drum to strong (intense) light as this will damage the Drum.

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

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.

---

Image: Diagram of KIP 800 Series Hardware with dimensions:
- Rear: 650 mm
- Left: 1,200 mm
- Front: 1,500 mm
- Right: 2,040 mm (When connecting optional Auto Stacker)
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 800 Series is an Electro Photographic full color and B&W LED printer / MFP.

2. Selection from 3 models are available according to the requirement.
   - KIP 850 : 2 rolls digital printer model
   - KIP 860 : 2 rolls MFP model (Single footprint)
   - KIP 870 : 4 rolls digital printer model
   - KIP 880 : 4 rolls MFP model (Dual footprint)

3. 600dpi LED print head as well as advanced KIP System K 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. This removes the absence of the media in color registration step to provide a highly stabilized color image quality.

5. Speeds up to 8 D or 3.9 A0 prints/minute (at 80mm/sec) in either color or B&W mode.

6. Use of dry CMYK toner allows for printing color images directly onto a wide variety of media. Prints are instantly ready for use with a high durability against UV and water.

7. Easy access to USB port allows for “quick prints” using the simply but comprehensive touch panel

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 Folders
## 1. 4 Specifications

### 1.4.1 Printer part

<table>
<thead>
<tr>
<th>Subject</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>KIP 800 Series</td>
</tr>
<tr>
<td></td>
<td>- KIP 850 : 2 rolls digital color and B&amp;W printer</td>
</tr>
<tr>
<td></td>
<td>- KIP 860 : 2 rolls digital color and B&amp;W MFP (single footprint)</td>
</tr>
<tr>
<td></td>
<td>- KIP 870 : 4 rolls digital color and B&amp;W printer</td>
</tr>
<tr>
<td></td>
<td>- KIP 880 : 4 rolls digital color and B&amp;W MFP (dual footprint)</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Console type full color printer</td>
</tr>
<tr>
<td><strong>Printing method</strong></td>
<td>LED Array Electro Photography</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>CMYK</td>
</tr>
<tr>
<td><strong>Photoconductor</strong></td>
<td>Organic Photoconductive Drums</td>
</tr>
<tr>
<td><strong>Print speed</strong></td>
<td>80mm/sec. (4 A0/E min or 8 A1/D min.) : Color and monochrome</td>
</tr>
<tr>
<td></td>
<td>50mm/sec. for heavy medias</td>
</tr>
<tr>
<td><strong>Exposure method</strong></td>
<td>Multi-Level (9 levels) LED Print Head</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>600dpi x 2400dpi</td>
</tr>
<tr>
<td><strong>Print width</strong></td>
<td>Maximum: 914mm (36 inches) Minimum: 279.4mm (11 inches)</td>
</tr>
<tr>
<td><strong>Print length</strong></td>
<td>Maximum: 6x standard portrait 6000mm in case of A0/36”</td>
</tr>
<tr>
<td></td>
<td>5x standard portrait</td>
</tr>
<tr>
<td></td>
<td>Minimum: 210mm (8.5 inches)</td>
</tr>
<tr>
<td><strong>Warm up time</strong></td>
<td>Shorter than 6 minutes (at 23 degrees centigrade, 60% RH and 230V)</td>
</tr>
<tr>
<td><strong>First print time</strong></td>
<td>Shorter than 35 seconds (A1 landscape) (receiving of data through the completion of ejection from back exit)</td>
</tr>
<tr>
<td><strong>Fusing method</strong></td>
<td>Dual roller, pressure</td>
</tr>
<tr>
<td><strong>Development</strong></td>
<td>Contact type mono component non-magnetic development system</td>
</tr>
<tr>
<td><strong>Drum charging</strong></td>
<td>Corona</td>
</tr>
<tr>
<td><strong>Primary &amp; Secondary Transfer</strong></td>
<td>Transfer rollers</td>
</tr>
<tr>
<td><strong>Separation</strong></td>
<td>Electrostatic separation (AC)</td>
</tr>
<tr>
<td><strong>Media feeding method</strong></td>
<td>Automatic (4 or 2 rolls) and manual bypass</td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>220 to 240V (+6% to -10%), 20A and 50/60Hz</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>Ethernet 10BASE-T, 100 BASE –TX, 1000 BASE-T USB 2.0</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>230V, 50/60Hz</td>
</tr>
<tr>
<td><strong>Acoustic noise</strong></td>
<td>Less than 65db (Printing)</td>
</tr>
<tr>
<td></td>
<td>NOTE: Impact noise is excluded. Less than 60db (Ready)</td>
</tr>
<tr>
<td></td>
<td>NOTE: The maximum sound pressure level according to EN ISO 7779 is 70 dB or less.</td>
</tr>
</tbody>
</table>

1-5 Chapter 1 Before Use
### Subject | Specification
--- | ---
**Dimensions** | KIP 870: 1,500 mm (W) x 1,080 mm (D) x 1,220 mm (H)  
KIP 860: 1,500 mm (W) x 1,080 mm (D) x 1,155 mm (H)  
KIP 850: 1,500 mm (W) x 1,080 mm (D) x 1,015 mm (H)  
KIP 880: Please see separate spec document as this can vary by user preference and KIP scanner model connected  
NOTE: Touch panel and upper trays are not included.

**Weight** | KIP 870  About 530 kg (1168 lb.)  
KIP 860  About 510 kg (1124 lb.)  
KIP 850  About 485 kg (1069 lb.)  
KIP 880  Please see separate spec document as this can vary by scanner model connected

**Media** | Bond/Plain paper  
- 70 to 90 g/m² (Color and monochrome : 80mm /sec.)  
- 90 to 160g/m² (Heavy media is used : 50mm / sec.)  
Film  
- g/m²  
Gloss  
- g/m²  

**PLEASE SEE THE KIP 800 MEDIA GUIDE FOR DETAILS**

**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 options** | - Online Auto Stacker  
- Online Folders

⚠️ **NOTE**

These specifications may be changed without notice.
### 1.4.2 Scanner (KIP 860)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanning method</td>
<td>Contact Image Sensor (CIS) (5 pieces of A4 sized CIS)</td>
</tr>
<tr>
<td>Light source</td>
<td>LED (R/G/B)</td>
</tr>
</tbody>
</table>
| Scanning speed (600 dpi, normal quality) (max) | Monochrome: 65 mm/s  
|                                 | Grayscale: 65 mm/s  
|                                 | Color: 22 mm/s                                      |
| NOTE: speed can vary dependent on scan software. |                                   |
| Setting of original             | Face up                                           |
| Starting point of scan          | Center                                            |
| Scan width                      | Max: 914.4 mm / 36”  
|                                 | Min: 210 mm                                       |
| Scan length                     | Max: 6 m / 19.7 ft (Including the margin area)  
|                                 | Min: 210 mm / 8.5” (Including the margin area)   |
| NOTE:                          | If the print is longer than 6m, its image quality or the reliability of paper feeding is not guaranteed. |
| Optical resolution              | 600 dpi                                           |
| Digital resolution              | 200 / 300 / 400 / 600 dpi                         |
| Original transportation         | Single sheet by device transportation             |
| Transportable original thickness | Max: 1.60 mm                                     
|                                 | Min: 0.05 mm                                      |
| NOTE:                          | Suggest to change “It does not guarantee both scan/copy image quality and original feeding reliability in case the original is non-standard size one of which thickness is 0.25mm or thicker. |

⚠️ **NOTE**

The above specifications are subject to change without notice.
1.5 Appearance

1.5.1 Front view

<table>
<thead>
<tr>
<th>Name of Part</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Print Tray</td>
<td>These trays catch ejected prints.</td>
</tr>
<tr>
<td>2 Scanner Unit</td>
<td>Read the original with this unit when you make scan or copy. (KIP 860 only)</td>
</tr>
<tr>
<td>3 Scan Abort Button</td>
<td>While scanning: emergency stop At Standby position: eject</td>
</tr>
<tr>
<td>4 Start Button</td>
<td>Starts scanning if the controlling software requires user intervention.</td>
</tr>
<tr>
<td>5 User Interface</td>
<td>This is a Touch Screen, and many kinds of user operation are available. PLEASE DO NOT push the LCD area too strong.</td>
</tr>
<tr>
<td>6 Bypass Feeder</td>
<td>Feed a cut sheet paper from the Bypass Feeder.</td>
</tr>
<tr>
<td>7 Roll Deck</td>
<td>Roll media can be loaded here.</td>
</tr>
<tr>
<td>8 Status Indicator</td>
<td>LED indicator indicates the following printer status.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color</th>
<th>Condition</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>
1. 5. 2 Left side view

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

<table>
<thead>
<tr>
<th>Name of Part</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 USB Port</td>
<td>Your USB flash memory storage can be installed here. 5VDC max.</td>
</tr>
<tr>
<td>2 Power Switch</td>
<td>Turns on/off the Printer.</td>
</tr>
</tbody>
</table>
1.5.4 Rear view

<table>
<thead>
<tr>
<th>Name of Part</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuser Knob</td>
<td>Rotate this knob when removing the misfed paper in the Fuser Unit.</td>
</tr>
<tr>
<td>Upper Exit Unit</td>
<td>It ejects prints upward or backward.</td>
</tr>
<tr>
<td>Fuser Cover</td>
<td>Prints come from the opening on this. Open the Fuser Cover when you remove the paper misfed inside the Fuser Unit.</td>
</tr>
<tr>
<td>Breaker</td>
<td>It is possible to shut off supplying the AC power.</td>
</tr>
<tr>
<td>Stacker Port</td>
<td>For a dedicated Auto Stacker for the Printer (DC24V 2A)</td>
</tr>
<tr>
<td>Inlet Socket</td>
<td>Connect the Power Cord here.</td>
</tr>
</tbody>
</table>
# 1.6 Specifications for Print Media

## 1.6.1 Papers not available to use

Do not use the following kinds of printing paper. Doing so may damage the print engine.

<table>
<thead>
<tr>
<th>Excessively curled (a diameter of 50 mm or less)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folded</td>
</tr>
<tr>
<td>Creased</td>
</tr>
<tr>
<td>Torn</td>
</tr>
<tr>
<td>Punched</td>
</tr>
</tbody>
</table>
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, aluminum 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 paper in 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.

<table>
<thead>
<tr>
<th>Humidity(%)</th>
<th>Possible problem</th>
<th>Necessary treatment</th>
</tr>
</thead>
</table>
| 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%         | “Void of image” occurs when you print with plain paper and tracing paper.         | Remove the paper from the machine after everyday use, and keep it in a polyethylene bag. |
| Low         | “Void of image”, “crease of paper” and other problems 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. |

Remove the paper from the machine right after the completion of print, and keep it in a polyethylene bag.
1. 7 Specifications for Scan Original (KIP 860 only)

A scan original must satisfy the following specifications.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>0.05 mm to 1.60 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>210 mm to 914.4 mm</td>
</tr>
<tr>
<td>Length</td>
<td>210 mm to 6,000 mm</td>
</tr>
</tbody>
</table>

NOTE:
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.

1.7.1 Original Standards

1. The width of original must range from 8.5" to 36" (210 mm to 914.4 mm).
2. The length of original must range 8.5" (210 mm) to 6,000 mm.
3. The thickness of original must range from 0.05 mm to 0.25 mm.
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

1.7.2 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
   - Aluminum Kent Paper
1.7.3 “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 original, because you may damage the original or scanner itself!

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sticked with paste</td>
<td><img src="image" alt="Sticked with paste" /></td>
</tr>
<tr>
<td>Torn</td>
<td><img src="image" alt="Torn" /></td>
</tr>
<tr>
<td>Folded (Leading edge)</td>
<td>![Folded (Leading edge)]</td>
</tr>
<tr>
<td>So much curled</td>
<td><img src="image" alt="So much curled" /></td>
</tr>
<tr>
<td></td>
<td>(Diameter is smaller than 50 mm.)</td>
</tr>
<tr>
<td>Not square</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Wet Image</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>Made of metal or fabric</td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>Rough surface (Carbon paper for example)</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>Clipped or stapled</td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
</tbody>
</table>
The following kinds of originals can be read with using a carrier sheet. However, the image quality and feed reliability are not guaranteed.

<table>
<thead>
<tr>
<th>Patched</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Punched</th>
<th><img src="image" alt="Diagram" /></th>
</tr>
</thead>
</table>
# Chapter 2

## Basic Operations

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<th>Section</th>
<th>Page</th>
</tr>
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<td>2-2</td>
</tr>
<tr>
<td>2. 2 Turning off the Printer</td>
<td>2-4</td>
</tr>
<tr>
<td>2. 3 Replacing the Roll Media</td>
<td>2-6</td>
</tr>
<tr>
<td>2. 4 Placing Cut Sheet Media</td>
<td>2-12</td>
</tr>
<tr>
<td>2. 5 Replacing the Toner Cartridge</td>
<td>2-13</td>
</tr>
<tr>
<td>2. 6 Replacing the Waste Toner Box</td>
<td>2-16</td>
</tr>
<tr>
<td>2. 7 Copying (for KIP 860)</td>
<td>2-20</td>
</tr>
<tr>
<td>2. 8 Stop of Scan or Copy (for KIP 860)</td>
<td>2-23</td>
</tr>
</tbody>
</table>
2. 1 Turning on the Printer

1. Plug the Printer to an exclusive wall outlet.

**NOTE**

Please confirm the outlet satisfies the following condition before plugging the Printer into.

220-240V (+6% to -10%), 20A, and 50/60Hz

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

3. The Status Indicator above the Power Switch flashes green while warming up.

**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 6 minutes after turning on. The status Indicator stops blinking and lights green when ready. Make a copy or print from outer devices.
2. 2 Turning off the Printer

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

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

Status Indicator (blinking)

⚠️ NOTE

The controller unit starts shutdown process after turning off the Printer, and it will take about 2 minutes until complete shut down. Do not unplug the Printer from the outlet for about 2 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).

![Image 1](image1)

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

![Image 2](image2)

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.)

![Image 3](image3)
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**

Correct: Leading edge is on bottom side

**Incorrect**

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.

**OK**

Correct: Flange is correctly aligned

**NG**

Incorrect: Flange is incorrectly aligned
7. Insert the leading edge into a slit under the Guide Plate (9) until it touches the feeding roller (10).
8. Rotate the small green 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.

**NOTE**

Incorrect settings lead to unwanted print results (fusing defect, improper image quality).
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.

(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.

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.

Direct the pointed tip (4) upside when inserting the cartridge into the machine.
6. Rotate the Toner Cartridge (3) in the arrow direction until it stops.

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).
2.7 **Copying** (for KIP 860)

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


   ![UI Home Screen](image)

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

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.

   ![Original Table](image)

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.

   ![Scan Unit](image)
4. The KIP 860 will start the copy process.

![KIP 860 interface](image)

**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.

![Start Button](image)

---

⚠️ **NOTE**

The scanner unit does not accept originals automatically during Sleep Mode. Tap on the UI screen and then insert an original.
The KIP 800 Series has 2 print delivery system, the print tray / rear stacking equipment.

![Image of printer](image)

**NOTE**

For the front stacking, gently lift up the prints on the print tray to the arrow direction to avoid rubbing the print surface. A large number of prints should be removed in several sheets.

<table>
<thead>
<tr>
<th>OK</th>
<th>NG</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Correct: Gently lift up and remove" /></td>
<td><img src="image" alt="Wrong: Do not pull downward" /></td>
</tr>
</tbody>
</table>

For the front stacking, the printer will inform you of “Upper Bin Full” on exceeding capacity of stacking. If the UI screen shows “Upper Bin Full”, remove all the prints on the print tray.

For further information of switching front / back delivery, see KIP Multi-Touch User Guide.
2. 8 Stop of Scan or Copy (for KIP 860)

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.
### Chapter 3
#### Error Correction

#### 3.1 Mis-feed Error
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- Manual Feeder Section Jam (Registration Mis-feed) ........................................ 3-5
- Media Feed Section Jam (Registration Mis-feed, Separation Mis-feed) .......... 3-6
- Fuser Section Jam (Fuser Mis-feed) ................................................................. 3-8
- Upper Exit Part Jam (Exit Part Mis-feed) ......................................................... 3-11
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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**

Be careful not to get paper cuts on your hand.
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.

3. 1. 2  Manual Feeder Section Jam  
(Registration 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 being inserted.
An extremely creased cut sheet may cause mis-feed again.
3. 1. 3  Media Feed Section Jam
(Registration Mis-feed, Separation Mis-feed)

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  Fuser Section Jam
(Fuser Mis-feed)

1. Open the Fuser Cover (1).
2. Holding the knob (2) on both sides, lift up the Separation Finger Assy (3) until the hook (4) catches the shaft (5).
3. Rotate the Fuser Knob (6) to the arrow direction to feed the media to the exit direction, and then remove it.

![Image 1](image1.png)

![Image 2](image2.png)

**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. Pull up the knob (7) on the both sides to put back the Separation Finger Assy to the original position.

![Image 3](image3.png)

![Image 4](image4.png)
3. 1. 5 Upper Exit Part Jam (Exit Part Mis-feed)

1. Remove the Exit Tray 2 (1).

2. Open the Upper Exit Unit (2) and then remove mis-feed paper (3).
3. 1. 6  **Original Jam** *(for KIP 860)*

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

![Image showing Scanner Unit open](image)

2. Remove a mis-feed original.

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

![Image showing Scanner Unit closed](image)

**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 (Deck 1 Open, Deck 2 Open)

Close the Roll Deck securely to clear "Deck 1 Open" or "Deck 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. 2. 4  Upper Exit Unit (Paper Exit Door Open)

Close the Upper Exit Unit securely to clear "Paper Exit Door 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.
Chapter 4

Maintenance

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. 1</td>
<td><strong>Scanner Unit (KIP 860 only)</strong></td>
<td>4-02</td>
</tr>
<tr>
<td>4. 1. 1</td>
<td>Scan Glass, Feed Roller, Guide Plate</td>
<td>4-02</td>
</tr>
<tr>
<td>4. 1. 2</td>
<td>Sensor</td>
<td>4-05</td>
</tr>
<tr>
<td>4. 2</td>
<td><strong>Touch Screen</strong></td>
<td>4-07</td>
</tr>
</tbody>
</table>
4.1 **Scanner Unit** (KIP 860 only)

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.

⚠️ **NOTE**

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

1. Turn off the Printer.

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.

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

5. Wipe dry the Feeding Rollers.

![Image of machine showing parts labeled 2, 3, and 4.]

**NOTE**

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

2. Lift up both sides (1) of the Scanner Unit.
3. Gently wipe Sensors (2) with a dry cotton bud.

![Image of Sensors being wiped]

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

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

![Image of Scanner Unit being closed]

**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.

![Image of a hand wiping a touch screen](image)

⚠️ NOTE

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