Thank you for purchasing the KIP 7770.

This Hardware Operation Guide contains functional and operational explanations for the KIP 7770. 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.
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 equipment 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.

KIP 7770 is an ENERGY STAR qualified equipment.

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.

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**

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.

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

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

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

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

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

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

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

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

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

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

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

**WARNING**

Select a power plug which meets the following criteria:
- The plug has a voltage and current rating appropriate for the product’s rating marked on its name plate.
- The plug meets regulatory requirements for the area.
- The plug is provided with a grounding pin or terminal.

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

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

<table>
<thead>
<tr>
<th>Plug Type: Model Rating 220-240V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>NEMA6-20</td>
</tr>
<tr>
<td>CEE7/7</td>
</tr>
<tr>
<td>KS C 8305</td>
</tr>
<tr>
<td>AS/NZS 3112</td>
</tr>
<tr>
<td>GB1002</td>
</tr>
<tr>
<td>IRAM 2073</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cord Type</th>
<th>Standard</th>
<th>Rating</th>
<th>Usually found in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Rating</td>
<td>Usually found in</td>
<td></td>
</tr>
<tr>
<td>SJT 3X12AWG Long &lt;4.5m</td>
<td>20A 250V</td>
<td>North America (UL Listed)</td>
<td></td>
</tr>
<tr>
<td>HO5VV-F 3X1.5mm²</td>
<td>16A 250V</td>
<td>European countries Argentina</td>
<td></td>
</tr>
<tr>
<td>RVV 3X1.5mm²</td>
<td>16A 250V</td>
<td>China</td>
<td></td>
</tr>
</tbody>
</table>
Chapter 1
Before Use

1. 1 Installation Requirements .................................................. 1- 2
1. 2 Originals Prohibited from Duplication .................................. 1- 3
1. 3 Features ........................................................................... 1- 4
1. 4 Specifications ...................................................................... 1- 5
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   1. 7. 3 Maintaining Media ..................................................... 1-12
   1. 7. 4 Environmental Condition - Correction ........................ 1-13
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 6% 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 32 degrees Centigrade, with the humidity between 15% to 85% RH. (NON-CONDENSING)
Keep the printer away from water sources, boilers, humidifiers or refrigerators.

Keep ample room around the equipment to ensure comfortable operation. (Refer to the following figure.)
The equipment must be leveled and the floor strength must be ample to sustain the weight of the equipment.
1.2 Originals Prohibited from Duplication

It is not necessarily allowed to copy every kind of original. You may be punished by the law if only you possess the copy of some kind of original. We recommend you to consider enough before you copy such original.

[Originals prohibited from copying by the law]

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

[Special items to be cared]

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

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

[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.
KIP 7770 Digital Printer can make a print in a speed of 120mm per second. The maximum print size is 36 inches (914mm) wide, and the minimum one is 8.5 inches (210mm) for cut sheet media, and 11 inches (294mm) for roll media.

The print image is more stabilized than before since we adopt a minute toner for mono-component development.

Density Compensation Process provides consistent image density in various environments.

The KIP HDP Plus imaging system produces high definition lines, distinctive greyscale and consistent blacks.

Flange type loading mechanism eases operator's media loading work.

When connected with an image scanner such as KIP2300 or KIP720, KIP7770 functions as multifunction printer.

Easy access to USB port allows users to provide efficient productivity by using “File to Print” / “Scan to USB” (option).

The following stacking options are available.
Auto Stacker : About 200 prints (Bond/PPC) can be stacked.
High Capacity Print Tray : About 100 prints (Bond/PPC) can be stacked.
Front Stacking Print Tray : In addition to the conventional rear ejection, this allows for front stacking. An operator can choose either way according to the necessity.

The KIP 7770 adopts 12.1 inch screen for the UI, wider than 10.4 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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>KIP 7770</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>Console</td>
</tr>
<tr>
<td><strong>Printing method</strong></td>
<td>Electro photography</td>
</tr>
<tr>
<td><strong>Photoconductor</strong></td>
<td>Organic Photoconductive Drum</td>
</tr>
<tr>
<td><strong>Print speed</strong></td>
<td>120mm per second</td>
</tr>
<tr>
<td></td>
<td>(Inch)  E: 5 sheets/min, D Landscape: 9 sheets/min</td>
</tr>
<tr>
<td></td>
<td>(Metric) A0: 5 sheets/min, A1 Landscape: 9 sheets/min</td>
</tr>
<tr>
<td><strong>Print head</strong></td>
<td>LED</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>600dpi x 2400dpi</td>
</tr>
<tr>
<td><strong>Print width</strong></td>
<td>Maximum: 36&quot; (914mm), Roll: 11&quot; / 297mm, Cut sheet (Portrait): 8.5&quot; / 210mm</td>
</tr>
<tr>
<td><strong>Print length</strong></td>
<td>Maximum: 6,000mm (bond, 36&quot; / A0 wide only), or “5 x Standard length” (bond)</td>
</tr>
<tr>
<td></td>
<td>“2 x Standard length” (vellum), “1 x Standard length” (film)</td>
</tr>
<tr>
<td></td>
<td>(Option) 64,000mm</td>
</tr>
<tr>
<td></td>
<td>Minimum: 8.5” (210mm)</td>
</tr>
<tr>
<td><strong>NOTE:</strong></td>
<td>If the print is longer than the maximum listed above, its image quality or</td>
</tr>
<tr>
<td></td>
<td>the reliability of paper feeding is not guaranteed.</td>
</tr>
<tr>
<td><strong>Warm up time</strong></td>
<td>Less than 2 minutes (23 degrees Centigrade, 60% RH and the rated voltage /</td>
</tr>
<tr>
<td></td>
<td>Bond)</td>
</tr>
<tr>
<td><strong>First print time</strong></td>
<td>21 seconds (E / A0 from Roll 1)</td>
</tr>
<tr>
<td><strong>Fusing method</strong></td>
<td>Roll Fuser</td>
</tr>
<tr>
<td><strong>Development method</strong></td>
<td>Dry type with non-magnetic mono-component toner</td>
</tr>
<tr>
<td><strong>Exposure method</strong></td>
<td>LED</td>
</tr>
<tr>
<td><strong>Charging method</strong></td>
<td>Corona</td>
</tr>
<tr>
<td><strong>Transfer method</strong></td>
<td>Corona</td>
</tr>
<tr>
<td><strong>Separation method</strong></td>
<td>Corona</td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>220V - 240V plus 6% or minus 10%, 50/60Hz, 13A</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Maximum: 3120W or less</td>
</tr>
<tr>
<td></td>
<td>Stand by: 1100W (Average)</td>
</tr>
<tr>
<td></td>
<td>Printing: 2100W (Average)</td>
</tr>
<tr>
<td></td>
<td>Cold Sleep: Conformity to International Energy Star Program</td>
</tr>
<tr>
<td></td>
<td>230V, 50/60Hz and Dehumidify Heater is ON</td>
</tr>
<tr>
<td><strong>Acoustic noise</strong></td>
<td>less than 65db (Printing)</td>
</tr>
<tr>
<td></td>
<td>less than 55db (Standby)</td>
</tr>
<tr>
<td><strong>Ozone</strong></td>
<td>less than 0.05ppm (Average)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>1370mm (Width) x 725mm (Depth) x 950mm (Height) (w/o UI)</td>
</tr>
<tr>
<td></td>
<td>1702mm (Width) x 725mm (Depth) x 1377mm (Height, max) (w/ UI)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 333kg (2 Roll type)</td>
</tr>
<tr>
<td></td>
<td>Approx. 375kg (4 Roll type)</td>
</tr>
<tr>
<td><strong>Media</strong></td>
<td>(Recommended Media)</td>
</tr>
<tr>
<td></td>
<td>US model:</td>
</tr>
<tr>
<td></td>
<td>Plain Paper 64g/m² to 80g/m², US Bond (PB-20)</td>
</tr>
<tr>
<td></td>
<td>Tracing Paper US Vellum (XY-20)</td>
</tr>
<tr>
<td></td>
<td>Film 4MIL (PF-4DME)</td>
</tr>
<tr>
<td></td>
<td>Europe/Asia model:</td>
</tr>
<tr>
<td></td>
<td>Plain Paper 64g/m² to 80g/m², Diamond Plain Paper (80g/m²)</td>
</tr>
<tr>
<td></td>
<td>Tracing Paper Gateway Tracing Paper (73g/m²)</td>
</tr>
<tr>
<td></td>
<td>Film NSF4MIL Film</td>
</tr>
</tbody>
</table>

(continued on the next page)
<table>
<thead>
<tr>
<th>Subject</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental condition for usage</td>
<td>Temperature: 10 to 32 degrees Centigrade</td>
</tr>
<tr>
<td></td>
<td>Humidity: 15 to 85% RH</td>
</tr>
<tr>
<td>Interface</td>
<td>Ethernet (10 BASE-T, 100 BASE-TX, 1000 Base-T)</td>
</tr>
<tr>
<td></td>
<td>Serial port (RS232-C)</td>
</tr>
<tr>
<td></td>
<td>USB 2.0</td>
</tr>
<tr>
<td>Storage of consumables</td>
<td>(Media)</td>
</tr>
<tr>
<td></td>
<td>Wrap the media surely to shut out the humidity.</td>
</tr>
<tr>
<td></td>
<td>(Toner cartridge)</td>
</tr>
<tr>
<td></td>
<td>Keep the toner cartridge away from the direct sunlight, and store it in the</td>
</tr>
<tr>
<td></td>
<td>condition of 0 to 35 degrees Centigrade and 10 to 85% RH.</td>
</tr>
</tbody>
</table>

⚠️ **NOTE**

The above specifications are subject to change without notice.
## 1. 5 Appearance

### 1. 5. 1 Front

<table>
<thead>
<tr>
<th>Name of part</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 User Interface (UI)</td>
<td>This is a Touch Screen, and many user operations are available. <strong>PLEASE DO NOT</strong> push the LCD area too strong.</td>
</tr>
<tr>
<td>2 Top Cover</td>
<td>Open here to clear the mis-feed paper.</td>
</tr>
<tr>
<td>3 Manual Table</td>
<td>Open here to insert a cut sheet or to pull the Upper Frame Unit.</td>
</tr>
<tr>
<td>4 Roll Decks</td>
<td>Each Roll Deck drawer holds 2 rolls of print media.</td>
</tr>
<tr>
<td>5 Power Switch</td>
<td>You can turn on/off.</td>
</tr>
</tbody>
</table>
## Name of part | Function
--- | ---
1 Paper Exit Door | Open the Paper Exit Door when you remove the mis-fed media.
2 Dehumidify Heater Switch | Press “H” to turn on the Dehumidify Heater, and press “L” to turn it off.
3 Inlet Socket | Connect the power cord here.
4 Breaker | It is possible to shut off supplying the AC power.
5 USB connector (USB2.0) | Connect the cable to this terminal for a KIP Scanner (option). (max.5Vdc)
6 COM Port | Connect the cable from a finishing device (option). (D-Sub Connector 9 pins: max.12Vdc (Small))
7 LAN Port | Connect the LAN Cable to connect the KIP 7770 to the network. (Do not connect a telephone line.)
1.6 Optional Configurations

You can combine the KIP 7770 Printer with optional outer devices.

**KIP 7770 + KIP Scanner**

**KIP 7770 on network**

Please contact your dealer for further information of integrating KIP 7770 to your network and other devices.
1. 7 Specifications for Printing Media

1. 7. 1 Available Print Size

Available print size is as follows.

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>11”/ 297mm (Roll)</td>
<td>36” / 914mm</td>
</tr>
<tr>
<td></td>
<td>8.5”/ 210mm (Cut Sheet)</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>8.5”/ 210mm</td>
<td>6m</td>
</tr>
</tbody>
</table>

⚠️ NOTE

It is possible to print longer than 6 meters as an option.

**Call your service personnel if you would like to print over 6 meters as the user can not change this setting in the printer.**

**If you print longer than 6 meters, the image quality or the reliability of media feeding is not guaranteed.**
## 1. 7. 2 Media not to be used

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

<table>
<thead>
<tr>
<th>Condition</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessively curled</td>
<td>![Excessively curled]</td>
</tr>
<tr>
<td>Folded</td>
<td>![Folded]</td>
</tr>
<tr>
<td>Creased</td>
<td>![Creased]</td>
</tr>
<tr>
<td>Torn</td>
<td>![Torn]</td>
</tr>
<tr>
<td>Punched</td>
<td>![Punched]</td>
</tr>
</tbody>
</table>
### Maintaining Media

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, do not damage the media.
4. If you will keep paper which you has already been unpacked, put it into the plastic bag to avoid humidity in the media.

---

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-printed</td>
</tr>
<tr>
<td>Extremely slippery</td>
</tr>
<tr>
<td>Extremely sticky</td>
</tr>
<tr>
<td>Extremely thin and soft</td>
</tr>
<tr>
<td>OHP Film</td>
</tr>
</tbody>
</table>
1. 7. 4 Environmental Condition - Correction

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>
<tbody>
<tr>
<td>Low</td>
<td>“Void of image”, “crease of paper” and other problems occurs when you print with plain paper and vellum.</td>
<td>1. Install the humidifier in the room, and humidify the room air. 2. Remove the media from the machine right after the completion of print, and keep it in a plastic bag.</td>
</tr>
<tr>
<td>40%</td>
<td>“Void of image” occurs when you print with vellum.</td>
<td>If you will not make print soon, remove the vellum from the machine and keep it in a plastic bag.</td>
</tr>
<tr>
<td>70%</td>
<td>“Void of image” occurs when you print with plain paper and vellum.</td>
<td>Remove the paper from the machine after everyday use, and keep it in a plastic bag.</td>
</tr>
<tr>
<td>High</td>
<td>“Void of image”, “crease of paper” and other problems occurs when you print with plain paper and vellum.</td>
<td>1. Turn on the Dehumidify Heater. 2. Remove the media from the machine right after the completion of print, and keep it in a plastic bag.</td>
</tr>
</tbody>
</table>

**NOTE**

(1) KIP 7770 is equipped with the Dehumidify Heater. Using it in high humidity environment (65% or higher) is recommended. Refer to [2.7 Dehumidifying Roll Media].

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

(3) Re-appearance of image (solid black image especially) may occur if you print with a humidified film.

When film is installed under the high humidity environment (higher than 60%RH), we also recommend that you turn on the Dehumidify Heater.
## Chapter 2

### Basic Operations

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2. 1 Turning on KIP 7770

1. Plug the power cord for KIP 7770 into a dedicated wall outlet.

![Power Cord Plugged into Outlet]

**WARNING**

(1) Do not handle the Power Plug with wet hands, or you may receive an electrical shock.

(2) Ground the printer for safety.

(3) Do not plug the printer into a multi-wiring connector in which other devices are plugged into. It may overheat the outlet and may result in a fire.

(4) The **OUTLET** must satisfy the following rated power condition.  
220V to 240V plus 6% or minus 10%, 50/60Hz, 20A or higher

2. There is Power Switch on the right-front of the printer.  
Press " I " side to turn on the printer.

![Power Switch]

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

![Warming Up Image]

**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 7770 is available to print.

![Ready Image]
2. 2  Turning off KIP 7770

1. Press “○” side on the Power Switch to turn off the printer.

⚠️ CAUTION

(1) KIP 7770 and the UI look to be shut down when you turn off KIP 7770. However, the embedded controller is still operating in approximately 2 minutes after Power Switch operation for the controller’s shutdown.

Do not unplug the KIP 7770 before the controller’s shutdown. Doing so may damage data or the device.

(2) If you use Dehumidify Heater for Roll Decks, the printer should be plugged while the printer is OFF. Refer to [2.7  Dehumidifying Roll Media].
2. 3  Replacing Roll Media

(1) When the printer is running out of a roll media, the UI Screen will display “Roll Replacement” sign.

Follow the later procedure (or as noted in the UI’s User Guide) to load a new roll media. Please refer to your Touch Screen Operator’s Guide for the UI screen.

(2) It is recommended that a tracing paper / vellum roll is loaded to Roll Deck 3 or 4 for 4 Roll type, Roll Deck 1 for 2 Roll type.

(3) This section describes how to install a roll media to Roll Deck 1. The same procedure is applied to Roll Deck 2 / 3 / 4, unless otherwise noted.
1. Open Roll Deck (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. Hold the shown part of the right Slide Guide (5). Move it to match your roll media’s width.
   The right and left Side Guides will automatically 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 (6) with sharp edge. Be sure not to touch them.
5. Push both the levers (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).

(Continued on the next page)
NOTE

(1) Note the rewinding direction.

Correct: Edge comes from bottom
Wrong: Edge comes from top

(2) The outside rim (7) of Flange should meet the black triangle (8) marked on Slide Guide. Otherwise the roll media may fall in Roll Deck or result in an incorrect media feeding.
7. Insert the leading edge under Guide Plate (9) until it touches the feeding roller (10).
8. Rotate the green knob (11) to the arrow direction (away from front) so that the feeding rollers catch the leading edge.

9. Push Roll Deck (1) to firmly close it.

**NOTE**

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

(2) Be sure not to catch your finger in between Roll Deck drawers.
10. When you close Roll Deck, “Define Roll” screen will appear on the UI screen. Choose the correct width and type, and press “Initial Cut” button (with scissors icon) for the corresponding Roll Deck.
# 2. 4 Replacing Toner Cartridge

## 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 replace the Toner Cartridge with a new one (genuine).

## NOTE

1. Open the Manual Table.

2. Pull out the Upper Frame Unit to your side (front) with holding both handles.
3. Push the Joint rightward to release the Toner Cartridge.
(The joint will be latched on the right.)

![Joint]

**NOTE**
Slide the Joint until it clicks to unlock the toner cartridge.
Not doing so may damage the toner supply system.

4. Press and hold the green lever. Rotate Toner Cartridge body (*not the Cap of Cartridge*) to the arrow direction in order to close the toner supply opening.

   Approximately 2 rotations will be enough to close the opening, but rotate Toner Cartridge until it stops completely.

![Rotation]

5. Keep pressing the green lever. Lift up Toner Cartridge and remove it.

![Lift up]

**NOTE**
If your hand or your clothing is soiled by toner, dust the toner.
If it is unable to dust it, wash the clothing with the cold water.
(Do not use the hot water at this time because the toner will soak into fiber.)
6. Peel off the wrap on the toner supply hole of Toner Cartridge. Shake a new Toner Cartridge several times right and left to make the toner smooth.

7. Press the green lever down until it clicks. Insert the far left pin on Toner Cartridge into the slot firmly. (Please direct the opening on Toner Cartridge downward at this time.)

**NOTE**

Please confirm that the green lever firmly locks the Toner Cartridge at the correct position. (It must be at a level position.)

**OK**
Correct: Green Lever in position

**NG**
Wrong: Toner Cartridge not locked
8. Slightly pull Toner Cartridge rightward and insert the swelling tab in the arrowed slot.

9. Rotate Toner Cartridge to the arrow direction in 180 degrees or more.
(The new Toner Cartridge is closed firmly so as not to lose the toner during the transportation)

**NOTE**

Even if the Joint is not fit to the Toner Cartridge, when you turn on the printer, it is automatically fit properly.

2.5 Placing Cut Sheet Media

1. Open Manual Table.

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. 6 Canceling Sleep Mode

The KIP 7770 has two Sleep Modes to reduce the power consumption. The KIP 7770 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.
- an original is inserted into a KIP Scanner (option).
- you tap on the UI screen.

⚠️ NOTE

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

(2) Tapping on the UI screen can cancel the screensaver but cannot recover temperature on Fuser Unit. It may need another waiting time to start warming up for printing.
2.7 Dehumidifying Roll Media

If the roll paper is extremely humid, it may cause poor prints. You will experience most likely “creasing” and “voids”.

- **Normal Print**
- **Creasing**
  - If the media is humidified;

- **Normal Print**
- **Voids**
  - If the media is humidified;

**NOTE**

Re-appearance of image (especially solid black image) may occur if you print with a humidified film.

When film is installed under the high humidity environment (higher than 60%RH), we also recommend that you turn on the Dehumidify Heater.

- **Normal print**
- **Re-appeared 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.
"Dehumidify Heater Switch" is located on the left-rear side of the machine.
Press “H” to turn on the Dehumidify Heater.

NOTE

(1) There are several dehumidifying settings which can be set by service personnel. When these settings are determined, the dehumidifier functions. With any setting, the printer must be plugged in and the switch noted above must be in the “H” position.
Call your service personnel if you would like to change the switch setting.
Note that the user can not change the setting.

(2) To achieve the best image quality, we recommend that you use media that is unpacked from the manufacture right before installing it into the printer. If media is unpacked long before installation, poor image quality may occur.
Chapter 2   Basic Operations 2-21

2. 8     Stacking Prints on High Capacity Print Tray (option)

High Capacity Print Tray has the ability to stack about 100 sheets of ejected prints behind the printer.

“High Capacity Print Tray” Stack Capacity:

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Number of sheets (approx.)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plain Paper</td>
<td>100 sheets</td>
<td>The correct stack capacity of these number of sheets can be achieved when all pages are;</td>
</tr>
<tr>
<td>Bond</td>
<td></td>
<td>- in any 1 standard size</td>
</tr>
<tr>
<td>Tracing Paper</td>
<td>10 sheets</td>
<td>- included in 1 print job and printed without any interruption.</td>
</tr>
<tr>
<td>Vellum</td>
<td>1 sheets</td>
<td></td>
</tr>
<tr>
<td>Film</td>
<td>1 sheets</td>
<td></td>
</tr>
</tbody>
</table>

For larger print sizes (D/A1 portrait, E/A0), please use the extension tray. Insert the extension tray’s hooking part on the base tray.

1. Flip up the extension tray.
2. With holding the extension tray, slide it completely to the arrow direction.

3. Lower the extension tray and insert the hooks on the base tray.

For use of thin vellum / tracing paper and film in D/A1 portrait or E/A0, press the lever down. In most sizes / types, the lever should remain up.

**NOTE**
This equipment is exclusive use of stacking ejected prints from the printer.

Please contact your local dealer for other outer devices (Scanner, Auto Stacker, Folder, etc). See the device’s documents if you use one. That might include additional information for usage / notice of the printer.
Chapter 3
Error Correction

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"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, 2, 3, 4 Mis-feed)

1. Open the Roll Deck 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
(By-Pass Mis-feed, Registration Mis-feed)

Manual Feeder Section
- By-Pass Mis-feed
- Registration Mis-feed

1. Pull out the Mis-feed paper from the Manual Feeder, and if the leading edge of the paper is torn or folded, replace it with a new one.
3. 1. 3 Media Feed Section Jam
(Mid Feed Mis-feed, Registration Mis-feed, Separation Mis-feed)

1. Open the Manual Table.

1. Open the Manual Table.
2. Pull out the Upper Frame Unit to your side (front) with holding both handles.

3. Pull up both knobs, and then push the Top Cover to rear side.
4. Remove the mis-fed paper.

5. Close Top Cover.

6. Close Upper Frame Unit and Manual Table.
3.1.4 Fuser Section Jam
(Exit Top Mis-feed, Exit Back Mis-feed)

1. It is necessary for a printer with High Capacity Print Tray (option) to move it aside to "release position".
   First remove stacked prints from the tray.
   If your system does not have High Capacity Print Tray, go to step 4.
2. Flip up the Lock Lever on the top of the Support Rod. Slide the Lock Slide down to release the tray.

**NOTE**  
Please note that the tray may slightly bounce at the time of release.
3. With holding the thick wire(s) on the overlapping area of the tray, lift up the entire tray. Insert the hooks into the holes on the tray rest. (release position)

**NOTE**

(1) Do not hold a thin wire to carry the entire tray.
(2) You cannot open Exit Cover until you move the tray from “operation position” to “release position”.
(3) Do not place any heavy object on the tray with mounted at “release position”.
4. Open Exit Cover.

![Image of Exit Cover](exit_cover.png)

**WARNING**

There are extremely hot parts inside the Heater Unit. Do not touch any parts in the Heater 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.

5. If it is possible to access the mis-fed paper, pull it out backward gently. Be careful not to tear the mis-fed paper.

If it is possible to access it, close Exit Cover. High Capacity Print Tray requires relocation. See step 12.

If it is not possible, go to the next step.

6. Open the Manual Table.

![Image of Manual Table](manual_table.png)
7. Pull out the Upper Frame Unit to your side (front) with holding both handles.

8. Pull up both knobs, and then push the Top Cover to rear side.
9. Remove the mis-fed paper.

10. Close Top Cover.

11. Close Upper Frame Unit and Manual Table.

For the printer with High Capacity Print Tray, go to step 12 on the next page for its relocation.
12. Hold the thick wire parts of the tray and insert the hook parts at the “lock position” on the top face of the printer's rear beam.

**NOTE**

(1) Do not hold a thin wire to carry the entire tray.

(2) Ejected prints will be stacked incorrectly on Print Tray until you move it from “release position” to “operation position”.

⚠️ **NOTE**

(1) Do not hold a thin wire to carry the entire tray.

(2) Ejected prints will be stacked incorrectly on Print Tray until you move it from “release position” to “operation position”.
13. Lift the Support Rod to the printer. Fully slide the Lock Slide upward. Slightly push the tray down to catch its bottom hooking part on the top of the Support Rod.

14. Fully press the Lock Lever down to lock the tray.

**NOTE**

To fit the Lock Lever in position, fully slide the Lock Slide upward.
3. 1. 5 Outer Device

The printing paper is mis-fed in the optional device such as Auto Stacker or Folder. Remove the mis-fed paper making reference to the User’s Manual of concerning device.
3. 2 Door Open

When any deck/cover is open (not closed firmly), the UI Screen will display “Deck Open” or any other prompt screen. Close the concerning deck/cover as it is impossible to print, if this error exists.

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

“Deck Open” will appear on the UI screen when Upper / Lower Roll Deck is open. Completely push the concerning Roll Deck toward the printer to firmly close it.

**NOTE**

The above screen will be indicated if the Roll Deck is not locked correctly, although it may look closed. Open and close the Roll Deck again, pushing until locked. Ensure both sides of the roll deck are in their correct position.

Correct: firmly closed  
Wrong: not closed completely
3. 2. 2 Upper Frame Unit / Top Cover (Front Cover Open)

If either Upper Frame Unit or Top Cover is open, the UI screen shows “Door Open”. Check if the Upper Frame Unit and the Top Cover are closed firmly.

Correct: Both Top Cover / Upper Frame Unit closed firmly

Wrong: Top Cover open    Wrong: Upper Frame Unit open

Push backward

Push forward
3. 2. 3 Paper Exit Door (Paper Exit Door Open)

If Paper Exit Door is open, the UI screen shows “Paper Exit Door Open”. Check if Paper Exit Door is closed firmly.
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 cartridge replacement procedure, refer to [2.4   Replacing Toner Cartridge].
3.4 Service Call Errors

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

- Fusing Temperature Error
- Motor Error
- Developer Error
- Counter Error
- Cutter Error
- Toner Density Error
- High Voltage Power Supply Error
- Outer Device Error
- Wire Cleaning Error

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