



Dell 2130cn **Service Manual**

22 April 2010

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Version record

Refer to the portion indicated by change bar in each section.

Also refer to the reasons in table below.

| Version Issu | e date | Note |
|-----------------|----------------|---|
| 1 st | March 19, 2010 | 1 st issued |
| 1.1st | April 30, 2010 | 1.1st version issued Introduction - The content was reviewed. Chapter 1:Troubleshooting - The content was reviewed. Chapter 2:Operation of Diagnostic - The content was reviewed. Chapter 3:RRP - The content was reviewed. Chapter 4:Plug/Jack Connector Locations - The illustration was changed. Chapter 6:Principles of Operation - The content was reviewed. Chapter 8:Printer Specifications - The content was reviewed. |
| 1.2st | May 19, 2010 | 1.2st version issued Introduction - The content of "4.5.2 Caution label for toner cartridges" was updated. Chapter 5 : Parts List - Correction according to change of spare parts. |
| 2nd | June 16, 2010 | 2nd version issued Chapter 1:Troubleshooting - The check result of development was reflected. Chapter 3:RRP - The error in writing was corrected. Chapter 4: Plug/Jack Connector Locations - The error in writing was corrected. Chapter 5: Parts List - The error in writing was corrected. Chapter 6:Principles of Operation - The content was reviewed. Chapter 7: Wiring Diagrams and Signal Information CONTENTS - The content was reviewed. Chapter 8: Printer Specifications - The content was reviewed. |

Cautions

Operation contents of this document may be subject to modification without notice.

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1. About this manual

This manual is a standard service manual of Q&E containing information of this laser printer (standard specifications).

2. Marks giving caution

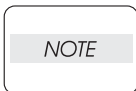
Maintenance operations requiring special cautions or additional information regarding descriptions in this manual are presented as "Warning," "Caution," or "Note," depending on their nature.



If instructions are not observed, death or serious injury may result.



If instructions are not observed, injuries to workers or physical damage to assets (including this laser printer) may result.



Essentials for procedures, steps, rules, and others.

Reference *Incidental information to descriptions.*

3. Related documents

- Instruction manuals (standard manuals)

Describe the operation and handling of this laser printer.

- Performance specifications

Describe in detail various specifications of this laser printer.

(In the event of a discrepancy between this manual and the performance specifications, the performance specifications take precedence.)

- Spare parts list

Information on maintenance parts (spare parts) for this laser printer.

4. Safety

To prevent possible accidents during maintenance operation, you should observe strictly the "Warning" and "Caution" information in this manual.

Avoid dangerous operations and operations out of the scope of this manual.

Various processes not covered by this manual may be required in actual operations, and should be performed carefully, always giving attention to safety.

4.1 Power source

Keep the power plug disconnected during the maintenance operation to prevent electric shock, burns and other damages.

If the power supply should be kept connected to measure voltage or for other similar reasons, take sufficient care to prevent electric shock, by following the procedures in this manual.



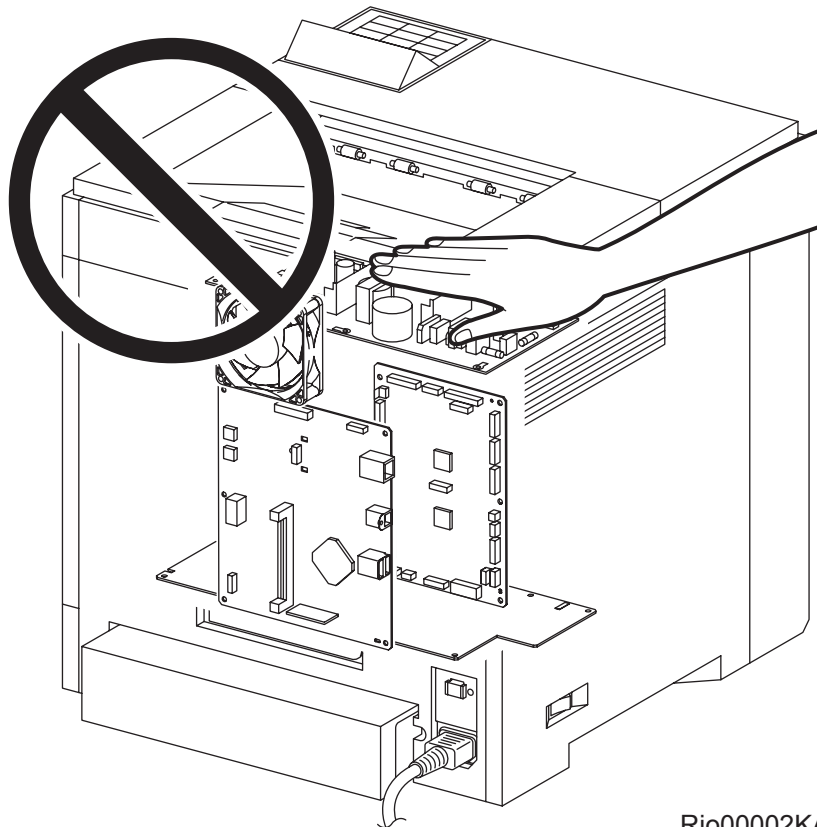
While the printer is on, never touch live parts if not required.



Power is supplied to the power switch / inlet even while the printer is off. Never touch its live components.



Do not touch live parts unless otherwise specified.



Rio00002KA

4.2 Driving units

When servicing gears or other driving units, be sure to turn off the power switch and unplug the power cord. Drive them manually when required.



Do not do the print work removing the cover of the printer to confirm the operation of driving part.

4.3 High-temperature units

When servicing high-temperature units (securing unit, etc.), be sure to turn them off to prevent burns, injuries and other troubles. Remove the power plug and start service processes after they have cooled down sufficiently.

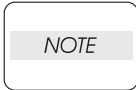


Because high-temperature units are still hot after they complete an operation, wait at least 40 minutes before starting maintenance service.

4.4 Laser beams



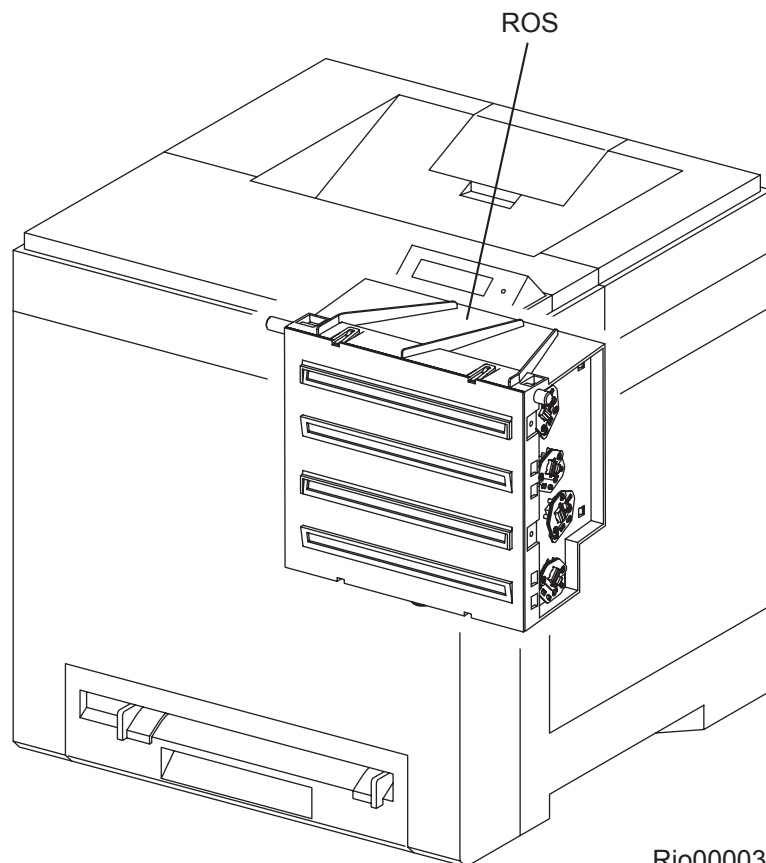
- *If your eyes are exposed to laser beams, you may lose your eyesight.*
- *Never open the cover if the warning label for laser beams is attached there.*
- *Before disassembling and reassembling this laser printer, be sure to turn it OFF.*
- *When servicing this laser printer while it is running, be sure to follow the procedures specified in this manual.*
- *You should be well aware that the laser beams are capable of injuring you and other people near the printer.*



Laser beams have features as follows:

- Frequencies are smaller in width than other beams (sun and electric bulbs) and phases are uniform so that high monochromatic and convergence performance can be obtained and thin beams of light can reach places at a long distance.
- Being highly converged, the laser beams exert a heating action that may be harmful to human body.

Reference: *The laser beams of this laser printer are invisible rays.*

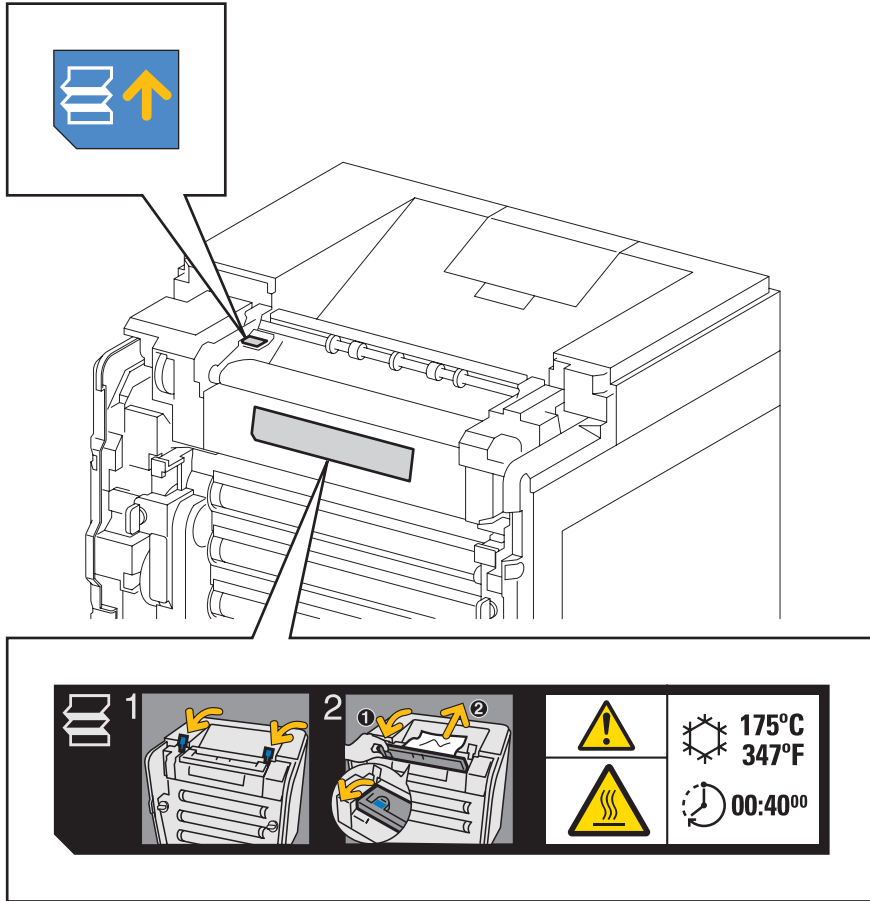


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4.5 Warning/caution labels

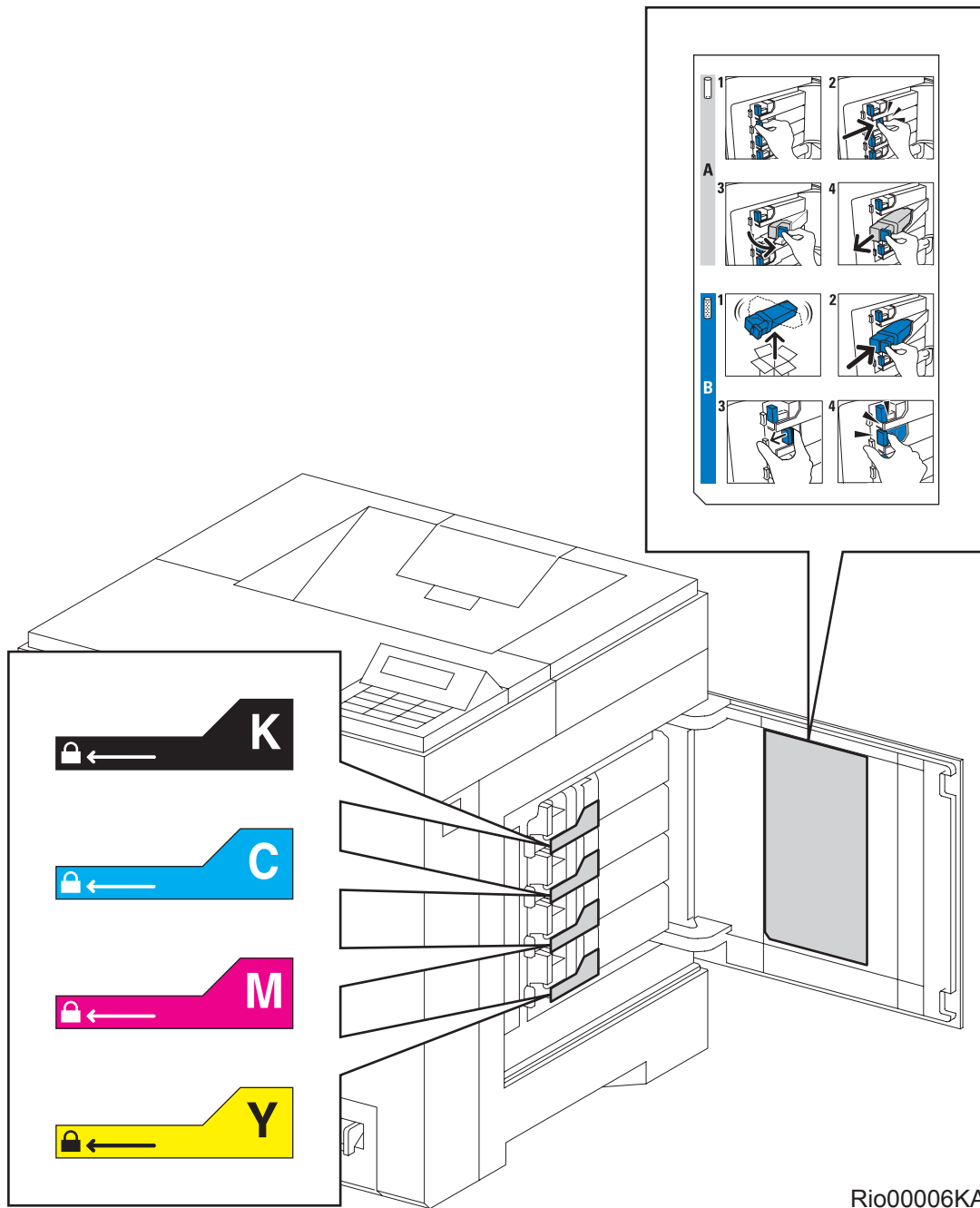
Warning labels and caution labels are attached to this laser printer to prevent accidents. Check those labels for peeling or stains when servicing the printer.

4.5.1 Caution label for high-temperature units



Rio00004KA

4.5.2 Caution label for toner cartridges



Rio00006KA

K

Dell™ 1320c Starter Black Cartridge WM055
 Black Toner Cartridge / Cartouche de toner noir / Cartuccia del toner color Nero
 Tonerkassette schwarz / Cartuchos de toner negro

Order Supplies at : www.dell.com/supplies
Dell is a trademark of Dell Inc. For warranty questions, see the limited warranty statements included with your printer documentation.

* 0 0 0 0 1 1 0 *

C

Dell™ 1320c Starter Cyan Cartridge PN029
 Cyan Toner Cartridge / Cartouche de toner cyan / Cartuccia del toner color Ciano
 Tonerkassette cyan / Cartuchos de toner cian

Order Supplies at : www.dell.com/supplies
Dell is a trademark of Dell Inc. For warranty questions, see the limited warranty statements included with your printer documentation.

* 0 0 0 0 1 1 1 *

M

Dell™ 1320c Starter Magenta Cartridge KN619
 Magenta Toner Cartridge / Cartouche de toner magenta / Cartuccia del toner color Magenta / Tonerkassette magenta / Cartuchos de toner magenta

Order Supplies at : www.dell.com/supplies
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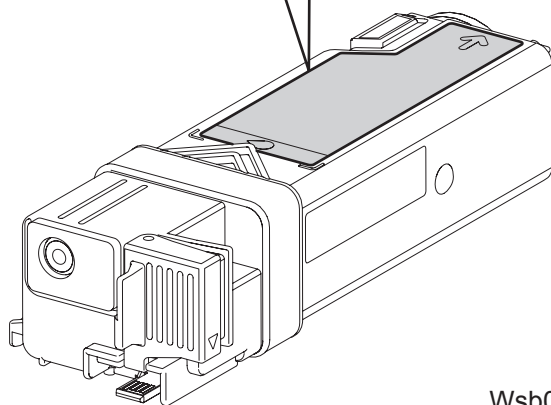
* 0 0 0 0 1 1 2 *

Y

Dell™ 1320c Starter Yellow Cartridge PN030
 Yellow Toner Cartridge / Cartouche de toner jaune / Cartuccia del toner color Giallo
 Tonerkassette gelb / Cartuchos de toner amarillo

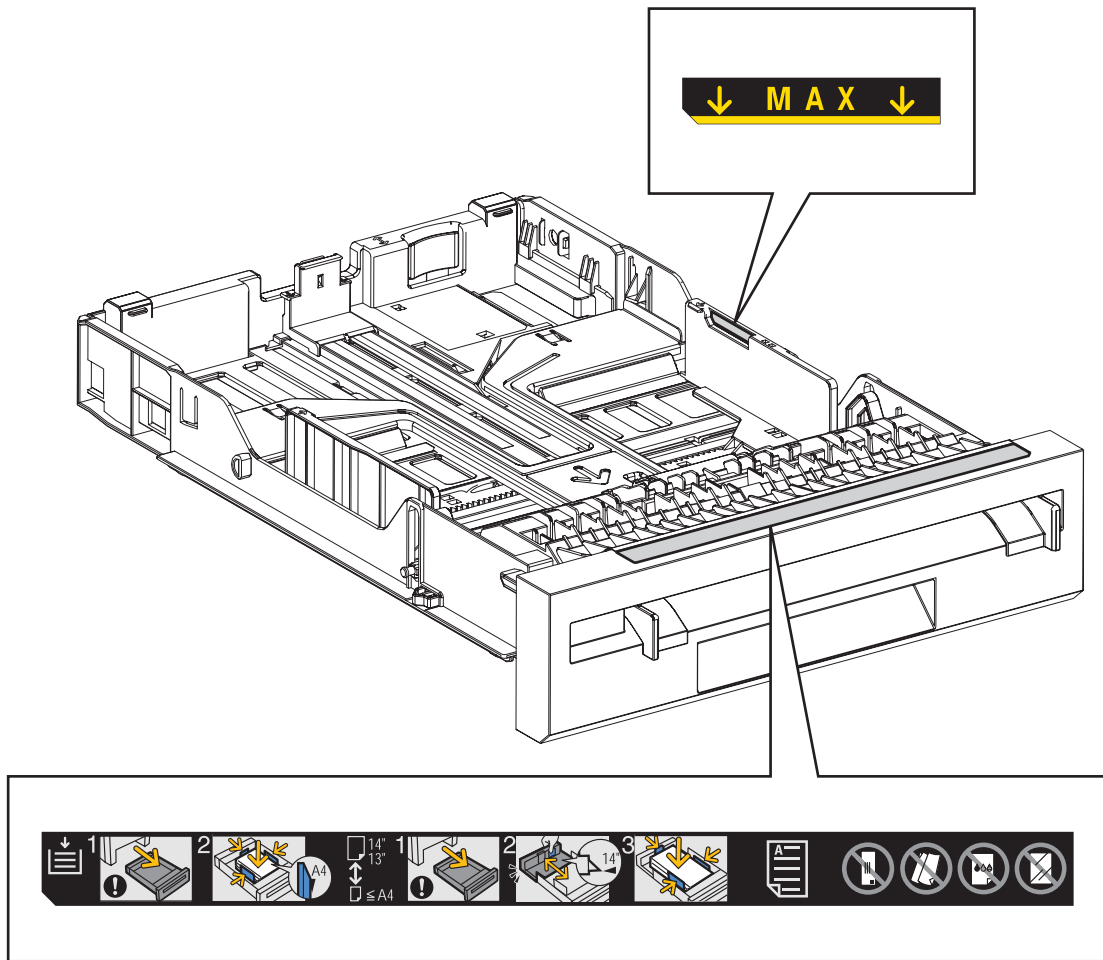
Order Supplies at : www.dell.com/supplies
Dell is a trademark of Dell Inc. For warranty questions, see the limited warranty statements included with your printer documentation.

* 0 0 0 0 1 1 3 *



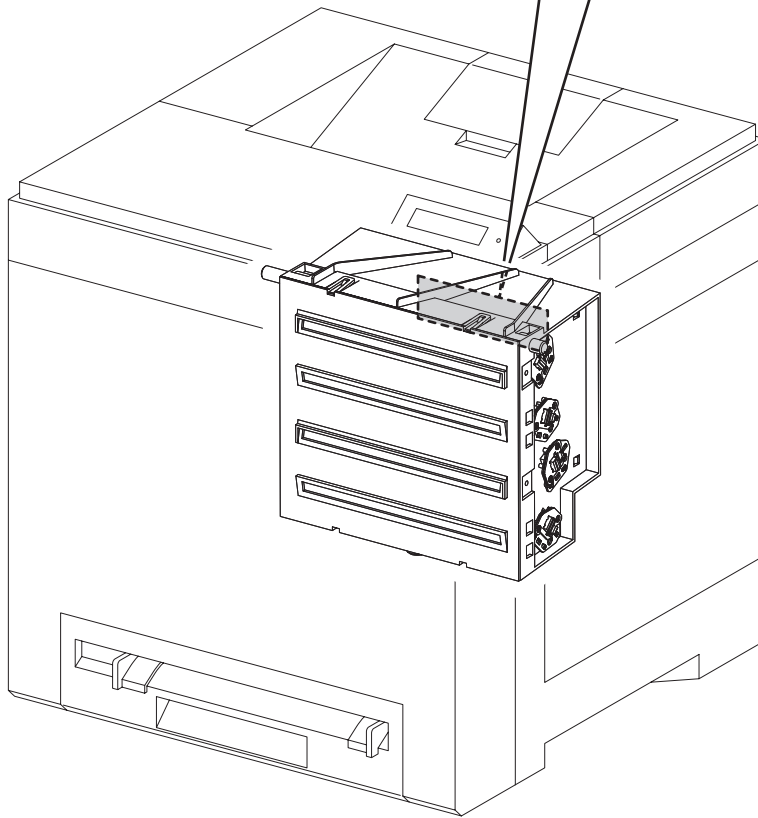
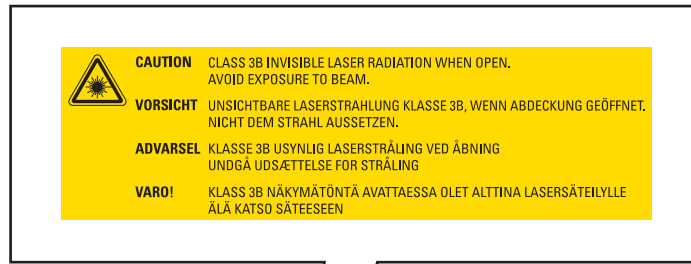
Wsb00007KA

4.5.3 Caution label for SSI and tray



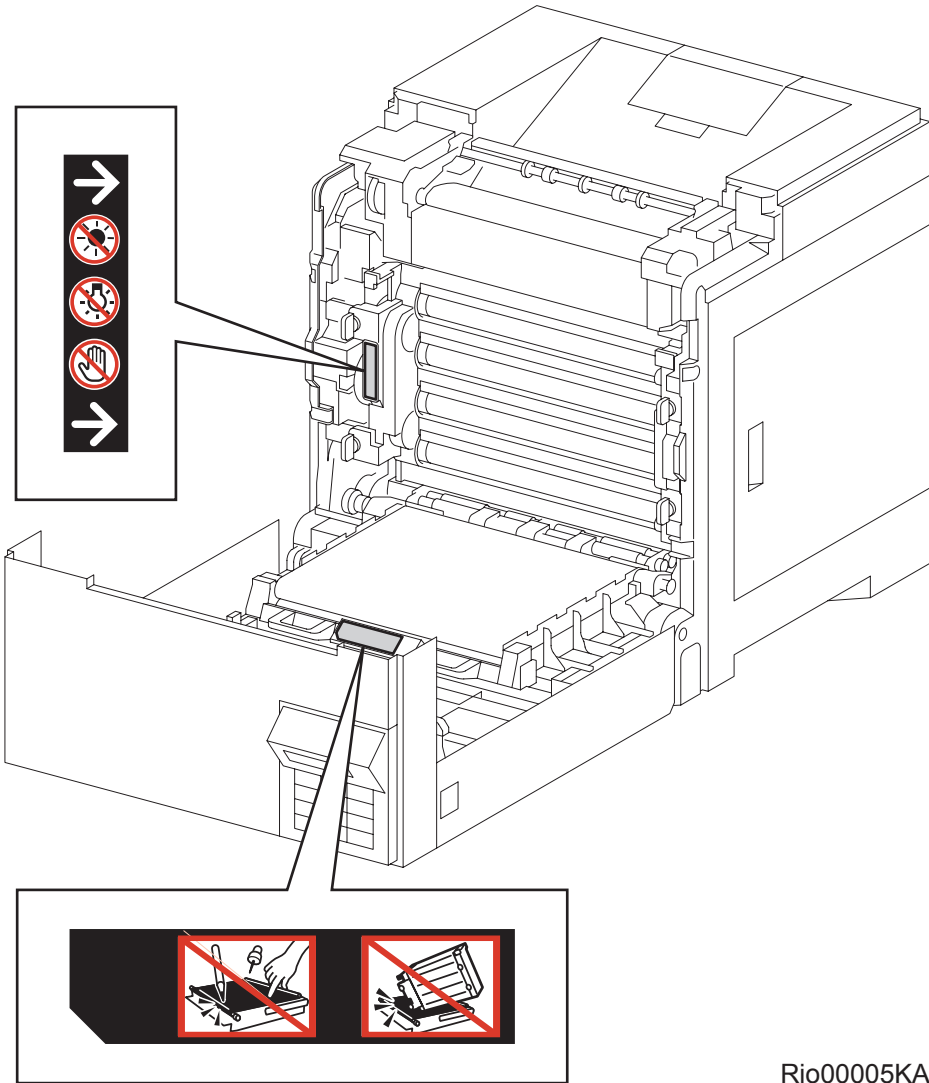
Rio00008KA

4.5.4 Caution label for ROS

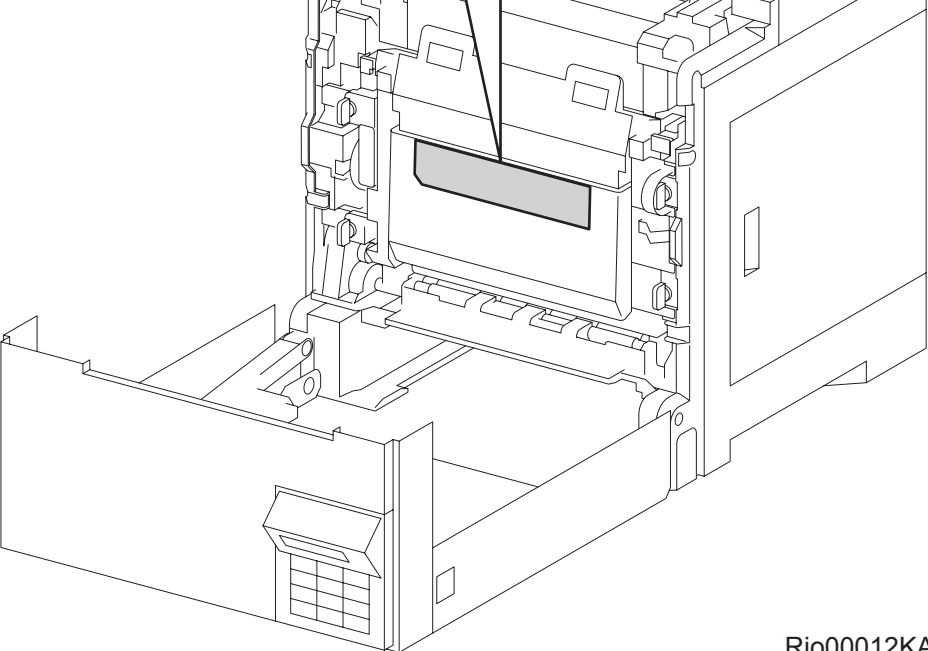
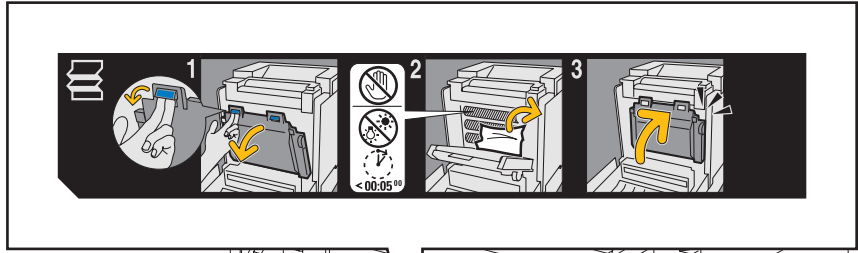


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4.5.5 Caution label for transfer belt and PHD unit

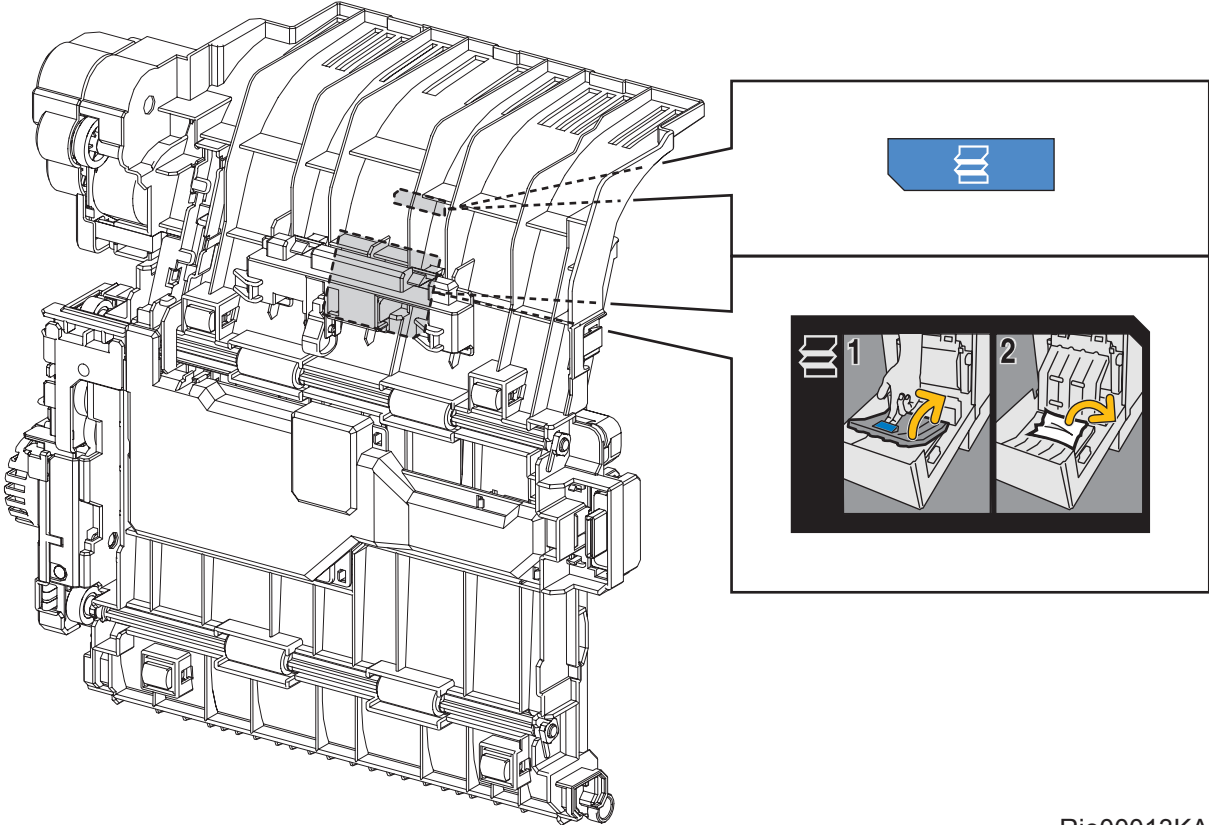


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4.5.6 Caution label for duplex



Rio00013KA

Blank Page

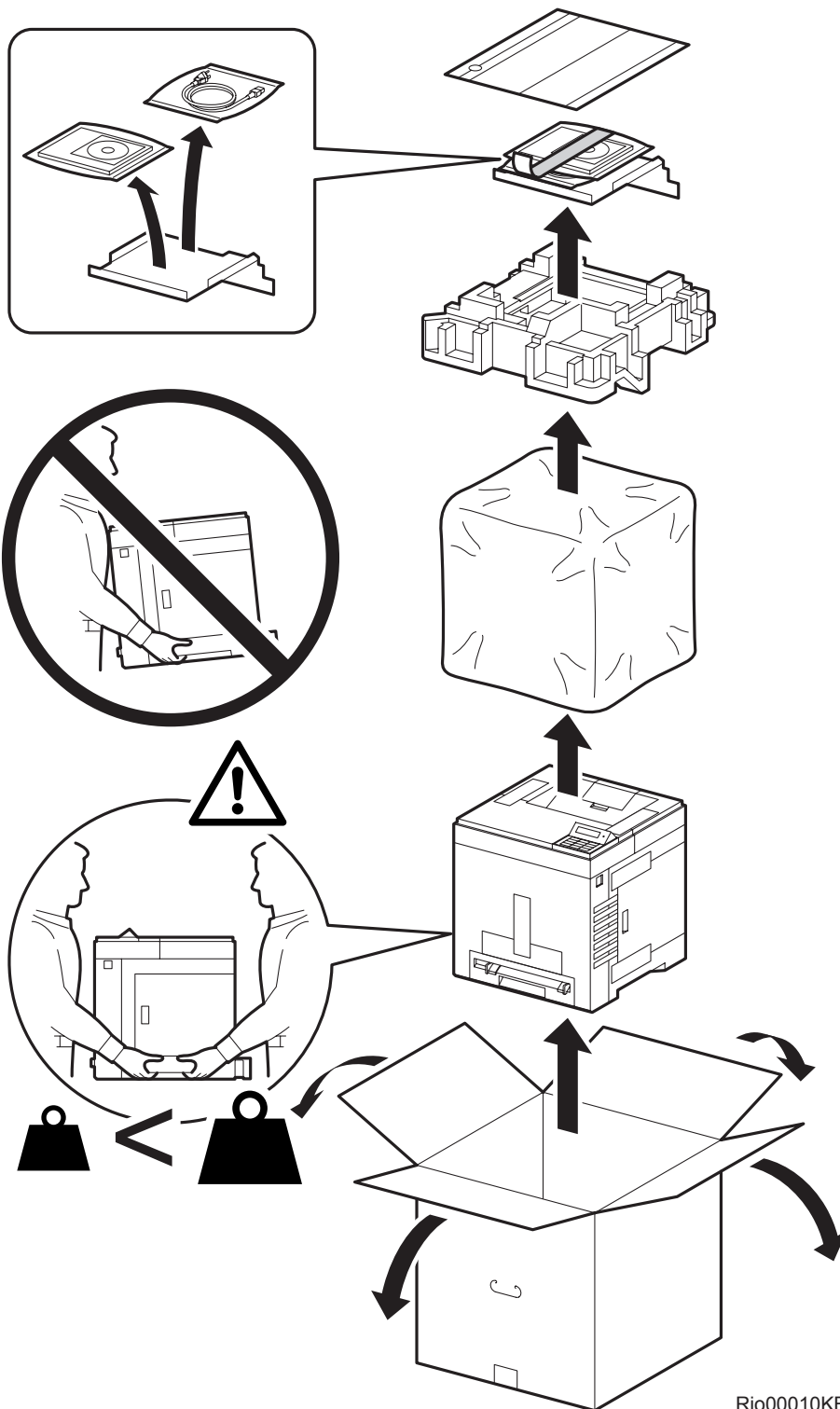
Unpacking the Printer



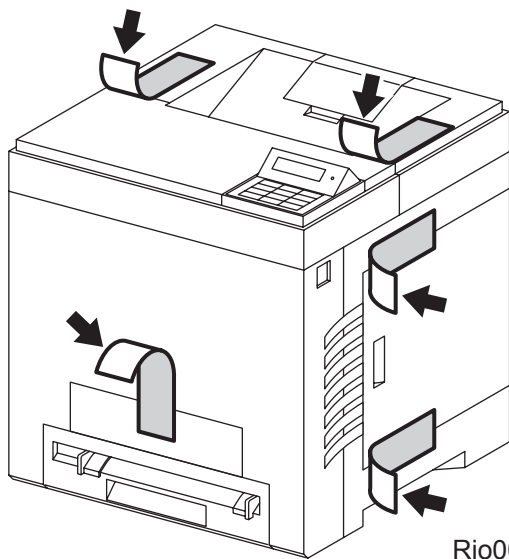
Take extreme care to avoid personal injuries.

Check the printer for evidence of any damages.

Peel all tapes off the printer.



Rio00010KB



Rio00011KB

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