USER MANUAL

TK306

CUSTOM®

CUSTOM S.P.A.

Via Berettine 2/B
43010 Fontevivo (PARMA) - Italy
Tel. : +39 0521-680111
Fax : +39 0521-610701
http: www.custom.biz

SAFETY/INSTALLATION INSTRUCTIONS

This product has been carefully designed to give years of safe, reliable performance. As with all electrical products, however, here are a few basic precautions that should be taken to avoid injury or damage:

- Ensure this and all other documentation are read carefully and retained for future reference.
- Ensure all warning and instruction labels on the product are read, understood and followed in order to prevent any risk of personal injury.
- This product may be heavy. Please check the weight of the product and take all necessary precautions to prevent the risk of personal injury.
- The product must be placed on a flat solid surface strong enough to support its weight to prevent any risk of personal injury.
- Ensure that there is adequate ventilation all around the product and do not obstruct ventilation grilles in order to prevent overheating and any risk of fire.
- This product may emit a small amount of Ozone during its initial use phase. Ensure it is operated in a well ventilated area to prevent any Ozone build up occurring.
- It is recommended that all printing devices are used in well ventilated rooms, to prevent any possible odour build up.
- Keep the product away from direct heat sources such as radiators and out of direct sunlight to prevent any risk of overheating.
- The power supply required for this product is 220-240 VAC, 50/60 Hz (for any DC powered product, the figures are 9.6-31.2VDC, 4-1.8A). Refer to your product's rating label for full power rating details. Ensure that you have a suitable power supply before connecting the product. If in doubt, contact your dealer or check with your local power provider.
- The operation of using UPS (uninterruptible power source) or inverters is not guaranteed. Do not use uninterruptible power source or inverters. Doing so may cause fire.
- Ensure both the product and mains power switches are in the OFF position before connecting the AC power cable.
- Do not connect or disconnect the power plug with a wet hand as this may cause electric shock.
- Always hold the power plug to connect/disconnect the power cable to/from the mains socket. Unplugging by pulling on the cable can cause fraying and may lead to fire or electric shock.
- This product has an earthed plug as a safety feature and will only connect to an earthed socket. Do not attempt to defeat the earthing or there is a risk of fire or shock.
- If using an extension cable or power strip ensure that the total current rating (amperes) of all connected equipment is less than the maximum rating of the extension cable, power strip or wall outlet. If the product is already supplied with a fitted power strip, then no additional power strip or extension cable should be used to connect to the mains wall outlet. Otherwise, fire or shock may occur.
- Ensure the power cable is routed so as not to be damaged or cause a trip hazard. If the cable becomes frayed or damaged replace it immediately to prevent any risk of shock.
- Do not twist, constrict or knot the power cable as this can cause overheating, which may lead to fire or electric shock.
- Ensure the power socket to which the product is connected is easily accessible at all times and not obstructed.
- Use only the power cable supplied with this product. Using a power cable not intended for this product may lead to fire or electric shock or damage the product.
- To avoid risk of fire and electric shock, do not use the power cable supplied with this product for any other electrical equipment.
- Only connect the power cable and any other cables supplied as directed in the User Guide; failure to do so may result in damage, shock or fire.
- The preface page of the User's Guide lists the cable lengths used during EMC testing of the product. If these cable lengths are exceeded, then EMC interference may occur.
- Any ferrite cores supplied with any product MUST be fitted as per the supplied instructions in order to ensure compliance to EMC requirements and prevent the risk of interference occurring.
- It is recommended that the product is switched off prior to opening covers; otherwise there is a risk of electric shock.
- When the product access cover is open, do not touch the fuser unit or print head as you may receive burns. Allow it to cool before touching. Observe warning signs!
- If the product casing gets extremely hot or if smoke, unusual odour or abnormal noises are emitted from the product, there is a risk of fire.Switch off and unplug the mains connector and contact your dealer.
- If the product has been knocked over or damaged, there is a risk of electric shock, fire and/or injury. Switch off and unplug the mains connector and contact your dealer.
- If any liquid (for example water) is allowed to enter the product, there is a risk of fire. Switch off and unplug the mains connector and contact your dealer.
- Do not place containers, cups etc.containing liquid on the product as spillage and potentially electric shock, fire and/or injuries may occur.
- If any foreign objects (for example clips) are allowed to enter the product, there is a risk of electric shock, fire and/or injury. Switch off and unplug the mains connector before removing the object.
- Do not introduce foreign objects into the ventilation holes or operate this product with any covers open or doors removed as electric shock, fire and/or injuries may occur.
- Do not use any flammable spray near the product as the product contains high temperature parts that may cause a fire.
- Switch the product off before cleaning to prevent any risk of personal injury. Clean using a damp cloth. Do not use liquid or aerosol cleaners.
- Ensure loose clothing and hair is kept clear of moving parts when the product is in operation to prevent possible risk of personal injury.
- Do not carry out any operations on the product that are not specified in the User's Guide. This may result in electric shock, fire and/or injury.
- Never try to modify the product in any way. This could result in a risk of shock, fire and/or injury.
- Do not touch the battery, if one is fitted to the product. There is a risk of harmful reaction and extensive damage if the battery is replaced by an incorrect type. The product battery should not require replacement during the life of the product and should be disposed of in line with the requirements of the Batteries and WEEE directives. Battery Directive: Directive 2008/12/EC of the European Parliament and of the Council. WEEE Directive: Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC and 2003/108/EC.
- Any batteries contained in this product are designed to last the life of a product. At the end of the product's life they should be disposed of responsibly as part of the WEEE of which they form a part and in accordance with the provisions of the Batteries directive 2006/66 and the WEEE directive 2002/96.
- Do not throw toner cartridges or image drum cartridges into a fire as you may receive burns from a dust explosion.
- Before installing additional memory, hard disk drive or any other internally fitted option, ensure that the product is switched off and unplugged.
- After installation ensure any covers removed or doors opened are replaced or closed and secured to prevent any risk of fire or shock.
- The acoustic noise of this product is less than 70 dB (A) as measured in accordance with EN ISO 7779.
- The operating condition range for your product is: 10 to 32°C and 20 to 80% RH. Operation of the product out with this range could result in damage to the product.
- If a scanner, finisher etc. is fitted, exercise care when moving these items so as to avoid risk of entrapment or personal injury.
- If mounting the product on a cabinet, only use an CUSTOM S.p.A. cabinet designed specifically for that product, to prevent any risk of personal injury or damage to the product. Consult your dealer for details.
- Only cabinets specifically designed for this product and endorsed by CUSTOM S.p.A. should be used, and always ensure that any stability features and locking devices are correctly fitted and used as per supplied instructions.
- If the product is installed on a cabinet or high capacity feeder, ensure wheel locks are applied once placed in final position for use, to prevent risk of movement or personal injury.

EMERGENCY FIRST AID

- Take care with toner powder. If swallowed give small amounts of cold water and seek medical attention. DO NOT attempt to induce vomiting.
- Take care with toner powder. If inhaled, move the person to an open area for fresh air. Seek medical attention.
- Take care with toner powder. If it gets into the eyes, flush with large amounts of water for at least 15 minutes keeping eyelids open. Seek medical attention.
- Take care with toner powder. Spillages should be treated with cold water and soap to help reduce risk of staining skin or clothing.

CERTIFICATIONS (ONLY FOR THE EUROPEAN MARKET)

CE

The device is in conformity with the essential Electromagnetic Compatibility and Electric Safety requirements laid down in Directives 2014/30/EU and 2014/35/EU inasmuch as it was designed in conformity with the provisions laid down in the following Standards:

- EN 55032 *(Limits and methods of measurements of radio disturbance characteristics of Information Technology Equipment)*
- EN 55024 *(Information Technology Equipment – Immunity characteristics – Limits and methods of measurement)*
- EN 60950-1 *(Safety of information equipment including electrical business equipment)*

The Declaration of Conformity and other available certifications can be downloaded from the site www.custom4u.it.

GUIDELINES FOR DISPOSAL

The crossed-out rubbish bin logo means that used electrical and electronic products shall NOT be mixed with unsorted municipal waste. For more detailed information about recycling of this product, refer to the instructions of your country for the disposal of these products.

- Do not dispose of this equipment as miscellaneous solid municipal waste, but arrange to have it collected separately.
- The re-use or correct recycling of the electronic and electrical equipment (EEE) is important in order to protect the environment and the wellbeing of humans.
- In accordance with European Directive WEEE 2002/96/EC, special collection points are available to which to deliver waste electrical and electronic equipment and the equipment can also be handed over to a distributor at the moment of purchasing a new equivalent type.
- The public administration and producers of electrical and electronic equipment are involved in facilitating the processes of the re-use and recovery of waste electrical and electronic equipment through the organisation of collection activities and the use of appropriate planning arrangements.
- Unauthorised disposal of waste electrical and electronic equipment is punishable by law with the appropriate penalties.

RESOURCES AND TECHNICAL SUPPORT

To get support or to download the user manual, visit the website www.custom4u.it.

CUSTOM 4U

TABLE OF CONTENTS

1 INTRODUCTION 11

2 IDENTIFICATION OF THE MODELS 13

3 DESCRIPTION 15

3.1 Box contents 15
3.2 Device components: external views 16
3.3 Device components: connectors view 17
3.4 Device components: panel view 18
3.5 Device components: internal views 19
3.6 Device label 20
3.7 Key functions 21
3.8 Status messages 22
3.9 Messages on display 23

4 INSTALLATION 29

4.1 Installation space 29
4.2 Connecting a LAN cable 30
4.3 Connecting a USB cable 32
4.4 Driver and SDK 34
4.5 Moving the device 35
4.6 Transporting the device 36

5 DEVICE OPERATION 37

5.1 Operation flow 37
5.2 Opening device cover 38
5.3 Installing the cartridge 39
5.4 Replacing the toner cartridge 43
5.5 Checking the paper sensors position 45
5.6 Adjusting the paper sensors position 48
5.7 Attaching the guide ribs 51
5.8 Switch the device on 53
5.9 Switch the device off 54
5.10 Loading the paper 55

6 PANEL OPERATION 59
6.1 Display description 59
6.2 Entering and viewing the menu 60
6.3 Entering characters 62
6.4 Printing a demonstration page 63
6.5 Printing and checking a report 64
6.6 Checking the operation panel 65
6.7 Feeding the paper 66
6.8 Sensor calibration 67

7 CONFIGURATION BY KEYS 69
7.1 Menu List 69
7.2 Registering paper information 86
7.3 Setting the power save mode transition time 91
7.4 Setting the sleep mode transition time 93
7.5 Setting the auto power off time 95
7.6 Initializing the flash memory 97
7.7 Initializing the network settings 100
7.8 Initializing the device settings 102
7.9 Changing the administrator password 104
7.10 Correcting the color density 106
7.11 Adjusting the color balance 107
7.12 Correcting the color shift 109
7.13 Setting the volume for the paper empty buzzer 110
7.14 Setting the volume for the printing complete buzzer 112

8 CONFIGURATION BY SOFTWARE 115
8.1 Registering the device 119
8.2 Starting the Configuration Tool 119
8.3 Checking the status of the device 120
8.4 Changing the menu settings 120
8.5 Copying settings (cloning) 122
8.6 Configuring the network 122
8.7 Registering forms 123
8.8 Registering a demonstration page 124
8.9 Checking the free memory space 125
8.10 Removing the device 125

9 PRINTER DRIVER 127
9.1 Printer driver [Setup] tab functions 127
9.2 Printer driver [Color] tab functions 128
9.3 Printer driver [Overlays] tab functions 129
9.4 Printer driver [Extend] tab functions 130
9.5 Registering paper information to the printer driver 131
9.6 Sensor calibration 132
9.7 Printing from a computer 133
9.8 Registering favorites 133

9.9 Specifying the print orientation . . . 134
9.10 Rotating the print result 180 degrees . . . 134
9.11 Specifying the number of prints. . . . 135
9.12 Printing from the last page . . . 135
9.13 Cutting every specified number of pages . . . 136
9.14 Changing the print quality . . . 136
9.15 Printing with the photo mode . . . 137
9.16 Correcting barcodes for printing . . . 137
9.17 Changing color settings . . . 138
9.18 Reducing toner consumption when printing . . . 138
9.19 Overlaying text or logos when printing . . . 139
9.20 Registering print documents as new forms. . . . 139
9.21 Saving the documents to print as files in the form format . . . 140
9.22 Printing hidden text . . . 140
9.23 Printing with a specified font . . . 141
9.24 Adjusting the rendering position . . . 141
9.25 Reducing the size of the spool files (disablign EMF) . . . 142
9.26 Keeping the page layout when resizing a document . . . 142
9.27 Correcting faintness in thin lines and small text . . . 143
9.28 Executing drum cleaning before printing . . . 143
9.29 Skipping blank pages . . . 144
9.30 Canceling printing . . . 144

10 MAINTENANCE . . . 145
10.1 Paper jammed on the transfer belt . . . 145
10.2 Paper jammed in the fuser unit . . . 148
10.3 Paper jammed near the autocutter . . . 152
10.4 Cleaning the LED head. . . . 154
10.5 Cleaning the feed rollers . . . 156
10.6 Cleaning the paper feed rollers. . . . 159
10.7 Cleaning the lightproof film . . . 160
10.8 Cleaning the chassis. . . . 161

11 TROUBLESHOOTING . . . 163
11.1 White streaks appear in the vertical direction . . . 163
11.2 Horizontal white periodically appear in the paper feed direction. . . . 164
11.3 The printing is faint in the vertical direction . . . 164
11.4 Printing is light. . . . 165
11.5 White dots and lines appear . . . 165
11.6 Condensation occurs in the printed paper . . . 166
11.7 Streaks appear in the vertical direction . . . 166
11.8 Dots and horizontal streaks periodically appear in the paper feed direction. . . . 167
11.9 White background areas are faintly dirty. . . . 167
11.10 Bleeding occurs around text . . . 168
11.11 Toner comes off when rubbed . . . 168
11.12 Gloss is uneven. . . . 169
11.13 Black dots or white dots appear . . . 169
11.14 Dirt is printed . . . 170

11.15 The entire page is printed in black 170
11.16 Nothing is printed 170
11.17 Parts of the image are missing 171
11.18 The area around the image is dirty 171
11.19 The colors of the image are unexpected 172
11.20 The black of CMY 100% is light 172
11.21 The precision of the barcode reading is low 173
11.22 USB connection problems 174
11.23 Printer driver and utilities problems 174
11.24 The device does not operate 175
11.25 Nothing is displayed on the screen when the power is turned on 175
11.26 Printing does not start 176
11.27 Print data is not sent 177
11.28 An abnormal smell is emitted 177
11.29 A resonant sound is emitted 178
11.30 Printing stops before it is complete 178
11.31 Memory runs out 179
11.32 Printing is slow 179
11.33 The power turns off automatically 180
11.34 Paper jam frequently occurs 180
11.35 The device does not recover when the paper jam is removed 181
11.36 The paper curls or wrinkles 181
11.37 Paper gets stuck in the roller of the fuser 182
11.38 Paper sticks to the belt unit 182
11.39 Paper corner are folded 183

12 WEB PAGE 185
12.1 Starting the Web Page 188
12.2 Logging in as the administrator 188
12.3 Encrypting Communication (SSL/TLS) 189
12.4 Using IPP 191
12.5 Encrypting Communication (IPSec) 192
12.6 Using the IP Address Access Control Function (IP Filter) 194
12.7 Using the MAC Address Access Control Function 194
12.8 E-Mail Alert 195
12.9 Using SNMPv 196
12.10 Using IEEE802.1X (Wired LAN) 196

13 SPECIFICATIONS 199
13.1 Hardware specifications 199
13.2 Paper specification 202
13.3 List of included fonts 208

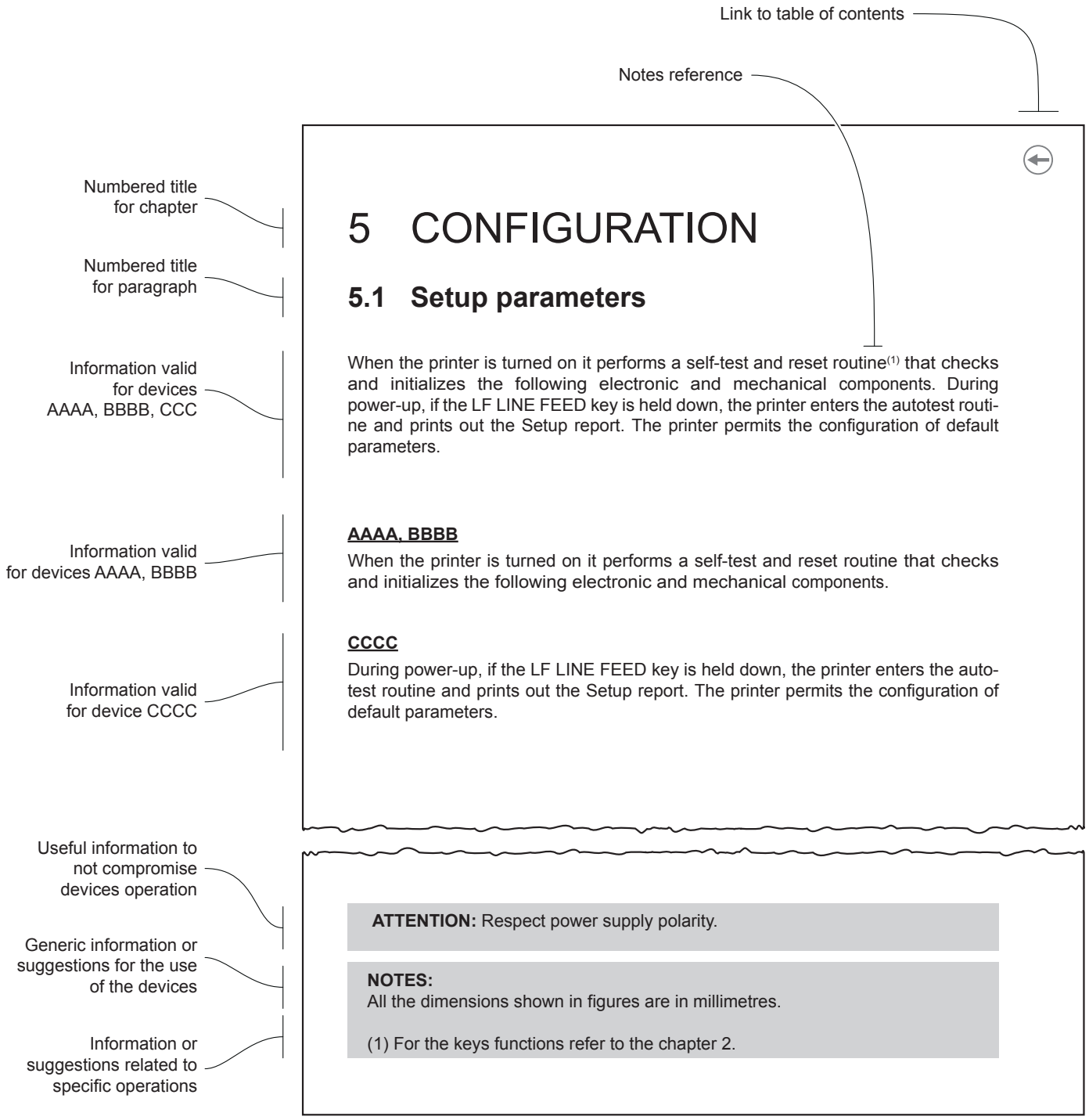
14 CONSUMABLES 209

15 ACCESSORIES 211

16 TECHNICAL SERVICE 213

1 INTRODUCTION

This document is divided into sections and chapters. Each chapter can be reached by the index at the beginning of this document. The index can be reached by the button on each page as shown in the diagram below.



2 IDENTIFICATION OF THE MODELS

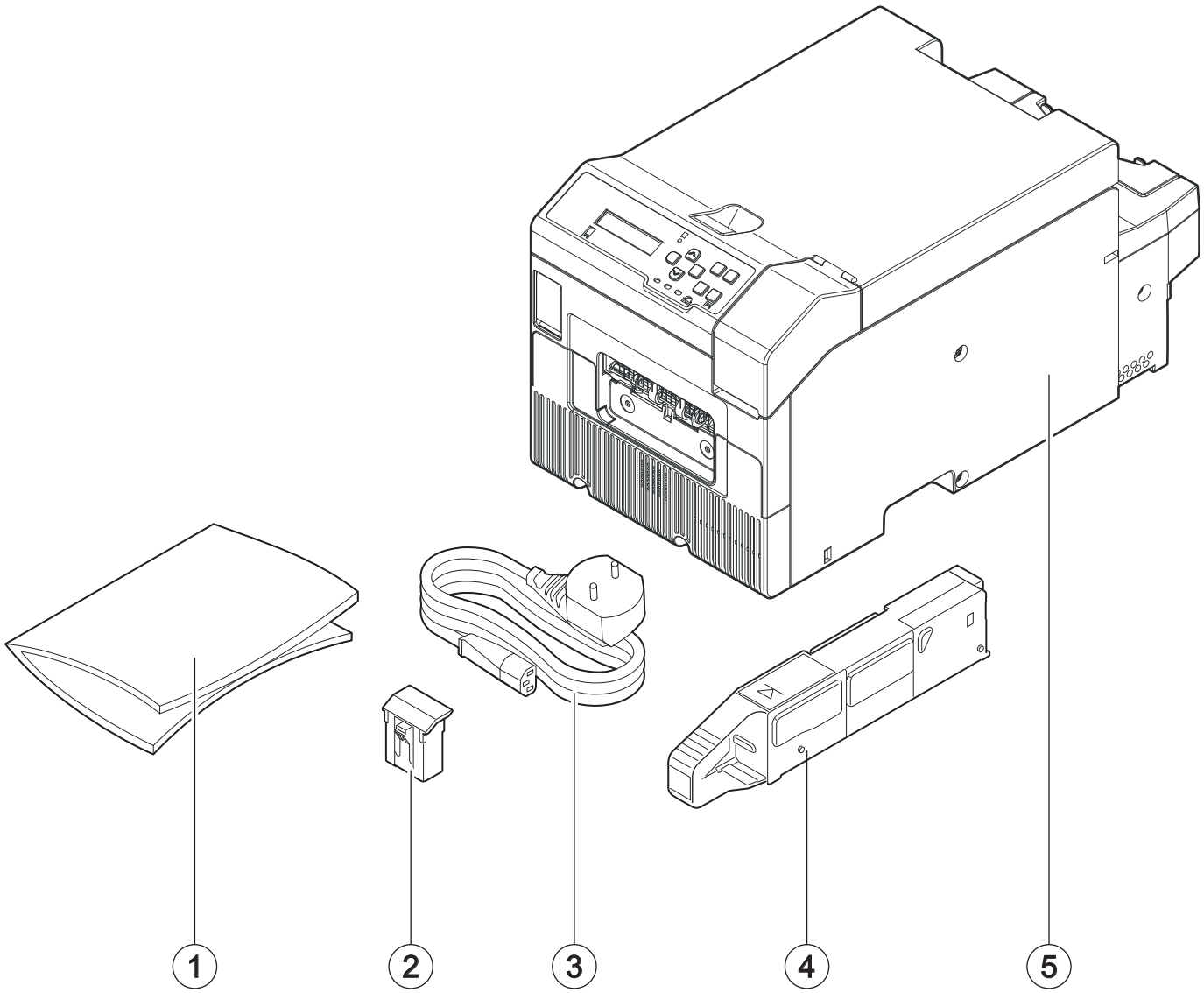
NOMENCLATURE	DESCRIPTION
TK306 120V	TK306 base configuration 120 V
TK306 230V	TK306 base configuration 230 V

3 DESCRIPTION

3.1 Box contents

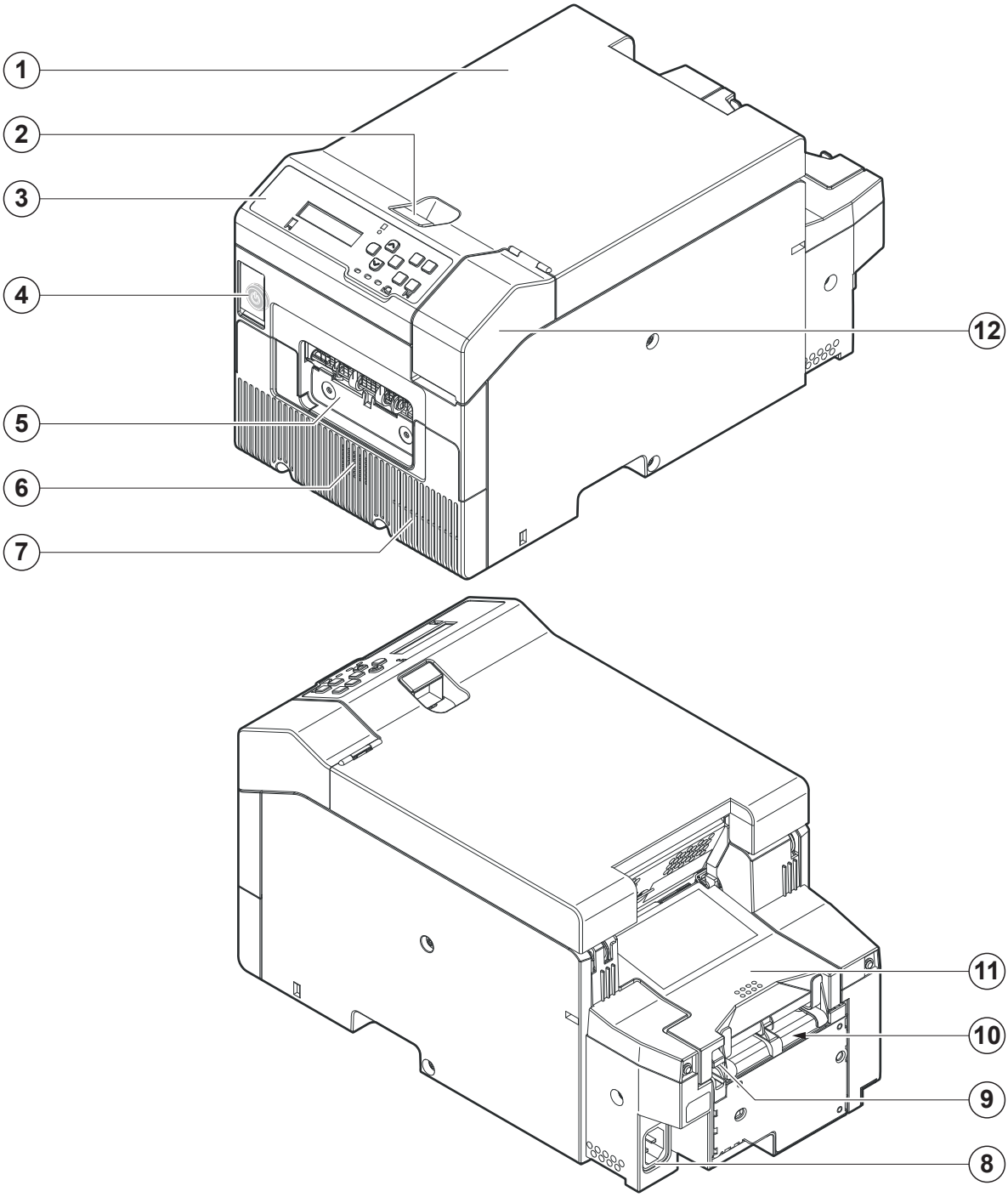
Remove the device from its carton being careful not to damage the packing material so that it may be re-used if the device is to be transported in the future.
Make sure that all the components illustrated below are present and that there are no signs of damage. If there are, contact customer service.

1. Documentation (short guide)
2. Guide rib (x 4)
3. Power cord
4. Toner cartridge
5. Device



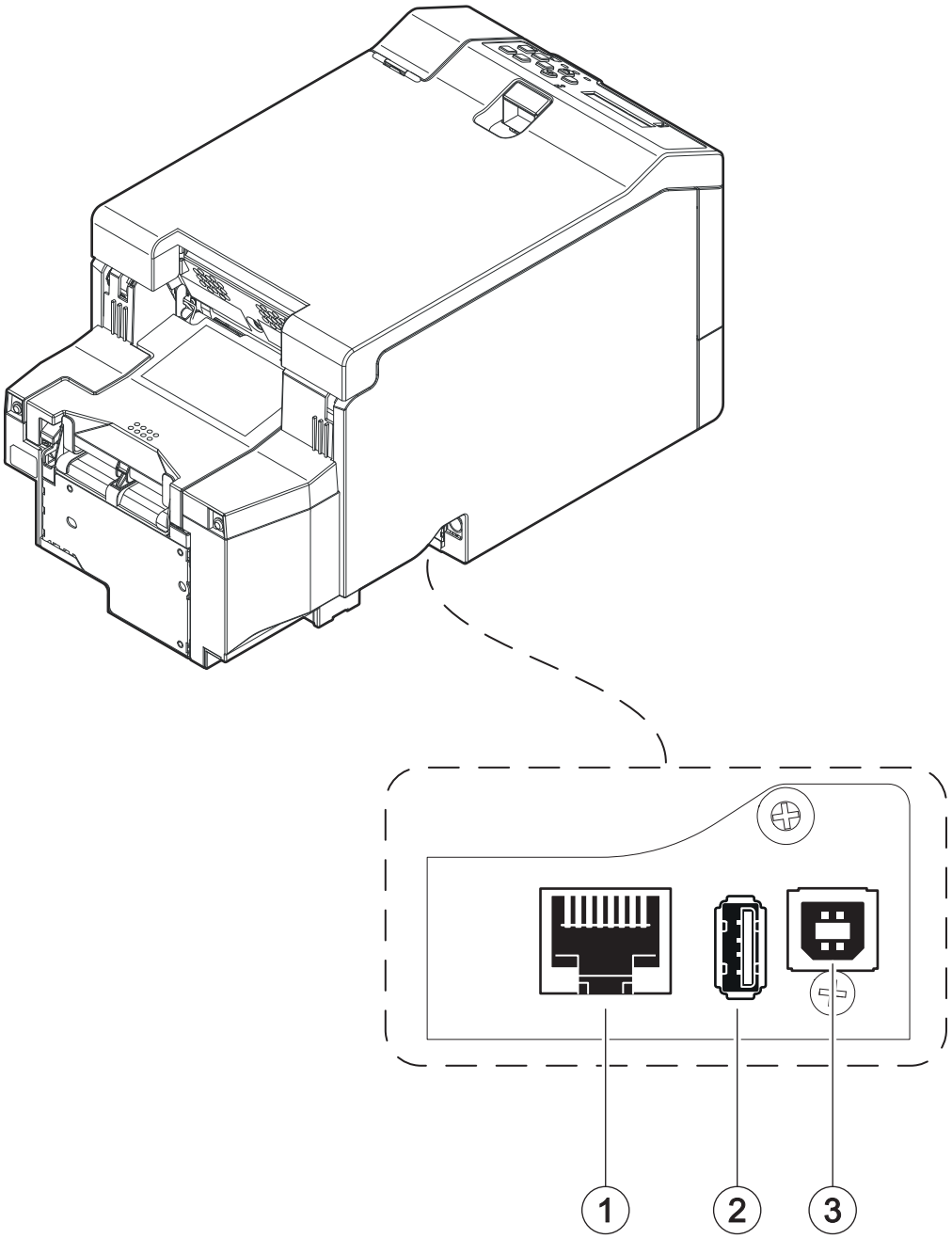
3.2 Device components: external views

1. Top cover
2. Top cover lever
3. LCD panel (see paragraph 3.4)
4. Power ON/OFF switch
5. Paper outlet
6. Buzzer
7. Air outlet
8. AC inlet
9. Feeder cover lever
10. Paper inlet
11. Feeder cover
12. Toner cartridge compartment cover



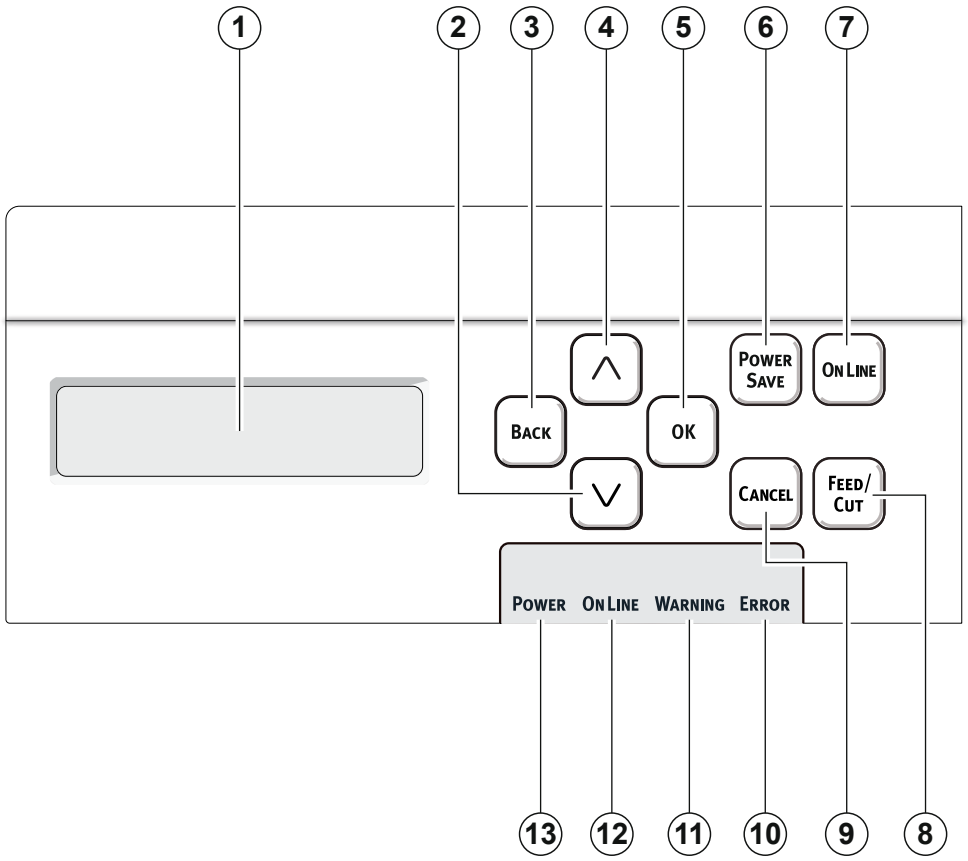
3.3 Device components: connectors view

1. Ethernet (LAN)
2. Host devices
3. USB



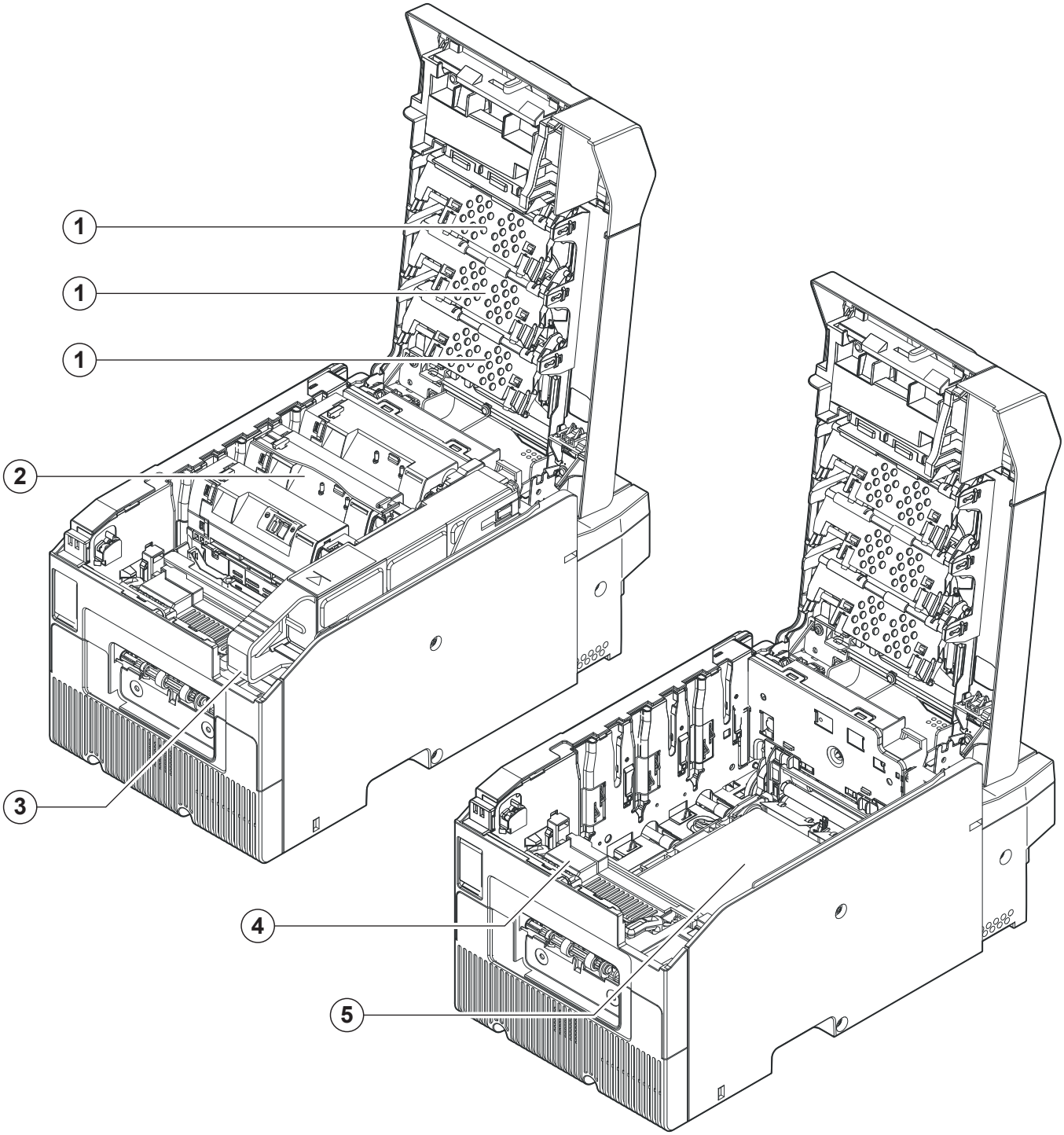
3.4 Device components: panel view

1. LCD
2. DOWN button
3. BACK button
4. UP button
5. OK button
6. POWER SAVE button
7. ON LINE button
8. FEED/CUT button
9. CANCEL button
10. Error status LED
11. Warning status LED
12. OnLine status LED
13. Power status LED



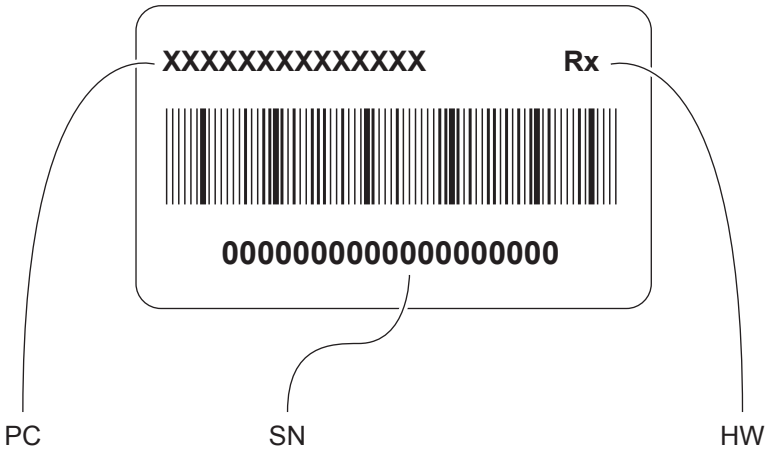
3.5 Device components: internal views

1. LED heads
2. Image drum unit
3. Toner cartridge
4. Fuser unit
5. Transfer belt unit



3.6 Device label

PC = Product code (14 digits)
SN = Serial number
HW = Hardware release



3.7 Key functions

The following table shows the functions programmed on the keyboard.

KEY	FUNCTION
	Enters the Menu mode. Returns to the previous item when the device is in the Menu mode. Press and hold it for one second or more to skip forward.
	Enters the Menu mode. Proceeds to the next item when the device is in the Menu mode. Press and hold it for one second or more to skip forward.
	Returns to the previous screen.
	Confirms the selected item or confirms the set value.
	Enters the Power Save mode or cancels the Power Save mode. Lights blue when the device is in the Power Save mode.
	Stops an operation or cancels a setting.
	Switches the device online/offline.
	Cuts, ejects and feeds the paper.

3.8 Status messages

The status LEDs indicates hardware status of device. Given in the table below are the various LED signals and the corresponding device status.

STATUS LED		DESCRIPTION
-	OFF	DEVICE OFF
POWER (BLUE)	ON	DEVICE ON
		DEVICE IN SLEEP MODE
ONLINE (BLUE)	ON	DEVICE IS ONLINE (WHEN PRINTING CAN BE PERFORMED)
WARNING (YELLOW)	ON	ERROR HAS OCCURED. PRINTING IS POSSIBLE
ERROR (RED)		ERROR HAS OCCURED PRINTING IS NOT POSSIBLE

3.9 Messages on display

The display indicates the hardware status of device and the menu items.
Given in table below are the various display messages and the corresponding device status.

□: Means that an arbitrary message is displayed on the top.
[CODE]: Displays an arbitrary numeric value.
[INFO]: Displays an arbitrary message.
[FS_ERROR]: Displays an arbitrary numeric value.
[ERRERROR]: Displays an arbitrary numeric value.
[SUBCODE]: Displays an arbitrary numeric value.
[COVER]: Indicates the top cover or feeder cover.

MESSAGE	DESCRIPTION
PLEASE WAIT	Wait until the device becomes ready to print.
INITIALIZING	The device is initializing. Wait until the device becomes ready to print.
MENU RESETTING	The menu items are being reset. Wait until the device becomes ready to print.
WAIT A MOMENT NETWORK INITIAL	The network settings are being initialized. Wait until the device becomes ready to print.
DETECTED AN ABNORMALITY OF INTERNAL DATABASE	An error occurred in the internal database of the device. Press OK to delete the data. The device then restarts.
PU FLASH ERROR	The device cannot start. Contact your dealer.
READY TO PRINT	Printing can be performed.
OFFLINE	The device is offline. Press ONLINE to turn the device online.
FILE ACCESSING	The internal file system of the device is being accessed. Wait until the device becomes ready to print.
DATA ARRIVE	Data is being received.
PROCESSING	Data is being processed.
DATA	Unprinted data remains in the device.
PRINTING	The device is printing.
PRINT DEMO PAGE	A demonstration page is being printed.
PRINT CONFIGURATION	The settings of the device are being printed.
PRINT FILE LIST	The list of files stored in the internal file system of the device is being printed.
PRINT ERROR LOG	An error log is being printed.
□ COPY kkk/lll	A copy is being printed. “kkk” indicates the number of pages being printed and “lll” indicates the total number of pages.
CANCELING JOB	Printing is being canceled.

CANCELING JOB (JAM)	The print data is being deleted because a paper jam occurred.
□ ADJUSTING TEMP.	The temperature of the fuser unit is being adjusted.
□ OPTIMIZING TEMP	The internal temperature of the device is being adjusted.
□ SLEEP MODE	The device is in the Sleep mode.
CHANGING LANGUAGE PLEASE WAIT	The language displayed on the operation panel is being changed. Wait until the device becomes ready to print.
LANGUAGE CHANGE FAILED ERROR NUM: [CODE]	Failed to change the language displayed on the operation panel. Turn the device off and then on again.
□ ADJUSTING COLOR	Automatic color shift correction is being performed.
□ ADJUSTING DENSITY	Automatic density correction is being performed.
PLEASE WAIT EXECUTING MAINTENANCE	The device is executing maintenance. Wait until the device becomes ready to print.
FEEDING	Paper is being fed.
□ USB MEMORY CONNECTING	USB memory is connecting to the device.
PLEASE LOAD PAPER SENSOR CALIBRATING	The paper sensors are being adjusted.
□ TAKE LABEL	Paper is waiting to be pulled out from the device. Pull out the paper.
□ ORDER TONER	Toner is low. Prepare a new toner cartridge.
□ TONER NOT RECOMMENDED	The toner cartridge is not recommended for the device.
PRESS OK BUTTON ERROR PDL	An error has occurred in the device. Press OK to clear the error.
□ ORDER IMAGE DRUM	The image drum is reaching the end of its lifetime. Prepare a new image drum.
□ ORDER FUSER UNIT	The fuser unit is reaching the end of its lifetime. Prepare a new fuser unit.
□ ORDER BELT UNIT	The transfer belt is reaching the end of its lifetime. Prepare a new transfer belt.
□ FUSER UNIT LIFE	The fuser unit has reached the end of its lifetime, and printing will stop soon. Prepare a new fuser unit.

□ BELT UNIT LIFE	The transfer belt has reached the end of its lifetime, and printing will stop soon. Prepare a new transfer belt.
□ TONER EMPTY	The toner cartridge is empty, and printing will stop soon. Prepare a new toner cartridge.
□ REPLACE TONER	The toner cartridge is empty. Replace the toner cartridge with a new one.
□ TONER NOT INSTALLED	A toner cartridge is not installed in the device. Set the toner cartridge in the device.
□ IMAGE DRUM NOT RECOMMENDED	A suitable image drum is not installed in the device.
□ IMAGE DRUM LIFE	The image drum has reached the end of its lifetime, and printing will stop soon. Prepare a new image drum.
□ FILE SYSTEM IS FULL	The internal file system of the device is full.
□ FILE IS WRITE PROTECTED	The device is trying to write to a file in the internal file system of the device that does not allow writing.
PLEASE DETACH IT USB HUB UNSUPPORTED	The device is connected to an unsupported USB hub. Remove the hub.
PLEASE DETACH IT UNSUPPORTED USB DEVICE DETECTED	The device is connected to an unsupported USB device. Remove the USB device.
PLEASE DETACH IT UNRECOGNIZED USB DEVICE	The USB device connected to the device was not recognized correctly. Remove the USB device.
□ SNTP SERVER COMMUNICATION ERROR	Failed to retrieve the time from the SNTP server. Check the network settings.
□ FILE OPERATION FAILED [FS_ERR]	An error occurred in the internal file system of the device. Operations that do not use the file system can be performed. The error is cleared when the following print data is received.
PRESS OK BUTTON INVALID DATA	Invalid data was received. Press OK to clear the error.
CHANGE IPV4 ADDRESS IPV4 ADDRESS IS CONFLICTED	The IPv4 address is the same as another device. Check the IPv4 address.
PAPER DETECTION ERROR [ERRCODE]:ERROR [SUBCODE]	The paper sensor could not detect the paper correctly. Check the position, cleanliness, and settings of the paper sensor. The meaning of “Subcode” is indicated below. 0 to 6: An error has occurred in the bottom sensor. 11 to 15: An error has occurred in the top sensor. 21 to 26: An error has occurred in the translucent sensor.
CHANGE [MEDIA_SIZE] [MEDIA_TYPE] PRESS OK BUTTON	The paper type of the paper loaded in the device does not match the print data. Load the correct paper to the device. Press OK when loading of the paper is complete.

RESTART PRINT? OK OR FEED/CUT	Press OK to resume printing immediately. Press FEED/CUT to resume printing after cutting the paper at the proscribed position. Press CANCEL to return to the standby screen without printing.
REDUCE PRINT DATA [ERRCODE]:MEMORY OVERFLOW	The print data is too complex. Attach extra memory or reduce the size of the print data. This error is automatically cleared after approximately 15 seconds.
NETWORK CONFIG WRITING	Network related settings are being configured.
WAIT A MOMENT NETWORK INITIAL	Network related settings are being initialized.
DOWNLOAD MESSAGE PROCESSING	Message data for updating is being processed.
DOWNLOAD MESSAGE WRITING	Message data for updating is being written.
DOWNLOAD MESSAGE SUCCESS	Writing of message data for updating succeeded. The device then restarts.
DOWNLOAD MESSAGE FAILED<%MSG_ERR%>	Writing of message data for updating failed.
PRESS OK BUTTON FOR RESTORATION [ERRCODE]:RECEIVING DATA TIME-OUT	A timeout has occurred while receiving data. This error is automatically cleared after approximately 15 seconds.
PLEASE TRY AGAIN [ERRCODE]:FW UPDATE ERROR.IF NETWORK DOESN'T WORK,PLEASE TRY FW UPDATE OVER USB	Failed to update the firmware. Execute the firmware update again.
LOAD [MEDIA_SIZE] 490 :FEEDER EMPTY	The paper has run out. Load paper to the device.
REPLACE TONER 412:TONER EMPTY	The toner has run out. Replace the toner cartridge with a new one.
TONER NOT RECOMMENDED 556:ERROR	Replace the toner cartridge with a recommended one.
INSTALL TONER [ERRCODE]:TONER MISSING	A toner cartridge is not installed in the device. Set the toner cartridge in the device.
IMAGE DRUM NOT RECOMMENDED 692, 702, 706, 686:ERROR	Replace the image drum with a recommended one.
OPEN TOP COVER [ERRCODE]:PAPER SIZE ERROR	Paper of an inappropriate size has been fed. Check whether the loaded paper size is correct or whether multiple sheets of paper have been fed. Then open and close the top cover.
CHECK FEEDER 390:PAPER JAM	In case of paper jam occurred while supplying paper, remove the paper jam. In case of wrong positioning of the paper sensors, change the position of the top sensor and bottom sensor according to the cut type setting (see paragraph 5.5). Be sure bottom sensor, that detects the paper presence, is positioned within the paper width.

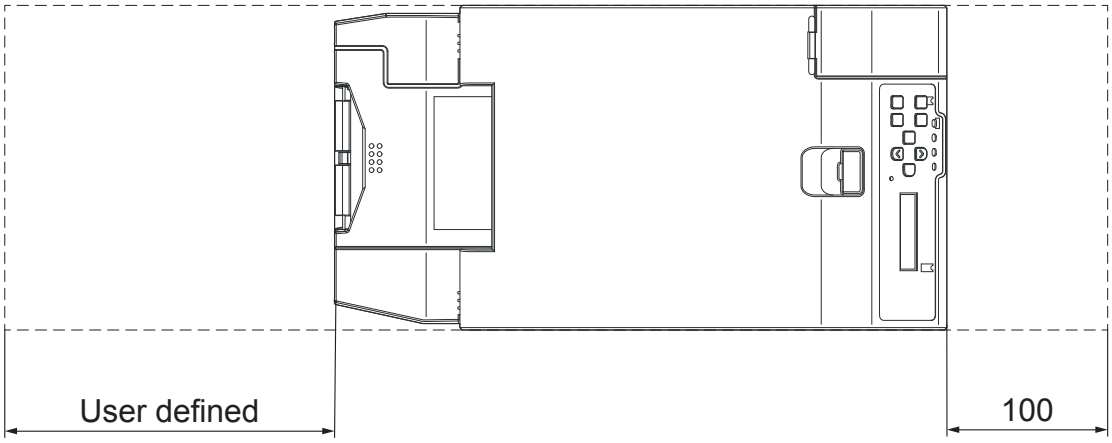
OPEN TOP COVER [ERRCODE]:PAPER JAM	A paper jam occurred while feeding paper. Remove the paper jam. ERRCODE 380 : Feed ERRCODE 381 : Transport ERRCODE 382 : Exit ERRCODE 389 : Printing Page Lost
CHECK CUTTER UNIT [ERRCODE]-02:ERROR	An error has occurred in the cutter unit. Check the cutter unit.
MARK NOT FOUND [ERRCODE]-06:ERROR	The paper mark could not be found. Check the position of the paper sensor.
REPLACE IMAGE DRUM [ERRCODE]:IMAGE DRUM LIFE	The image drum unit has reached the end of its lifetime. Replace the image drum with a new one.
REPLACE FUSER UNIT [ERRCODE]:FUSER UNIT LIFE	The fuser unit has reached the end of its lifetime. Replace the fuser unit with a new one.
REPLACE BELT UNIT [ERRCODE]:BELT UNIT LIFE	The transfer belt has reached the end of its lifetime. Replace the transfer belt with a new one.
CHECK IMAGE DRUM AND TONER CARTRIDGE 546:TONER CARTRIDGE MISSING	An error has occurred in the toner cartridge. Remove the toner cartridge, and set it again.
IMAGE DRUM MISSING 342:ERROR	The image drum is not set correctly. Set the image drum again.
CHECK FUSER UNIT [ERRCODE]:FUSER UNIT MISSING	The fuser unit is not set correctly. Set the fuser unit again.
CLOSE [COVER] [ERRCODE]:[COVER] OPEN	The displayed cover is open. Close the cover. ERRCODE 310: Top cover ERRCODE 589: Feeder cover
CLOSE TONER REPLACEMENT COVER 586:TONER COVER OPEN	The toner replacement cover is open. Close the toner replacement cover.
WAIT A MOMENT REBOOTING <%CODE%>	The device is restarting. Wait until the device restarts.
SHUTTING DOWN. PLEASE WAIT TURN OFF AUTOMATICALLY	The device is shutting down. Wait until the power turns off.
TURN OFF POWER SHUTDOWN COMPLETED	The shutdown process of the device is complete. Turn the device off.
POWER OFF/ON [ERRCODE]:ERROR	A critical error has occurred in the device. Turn the device off and then on again. If the device does not recover, contact your dealer.

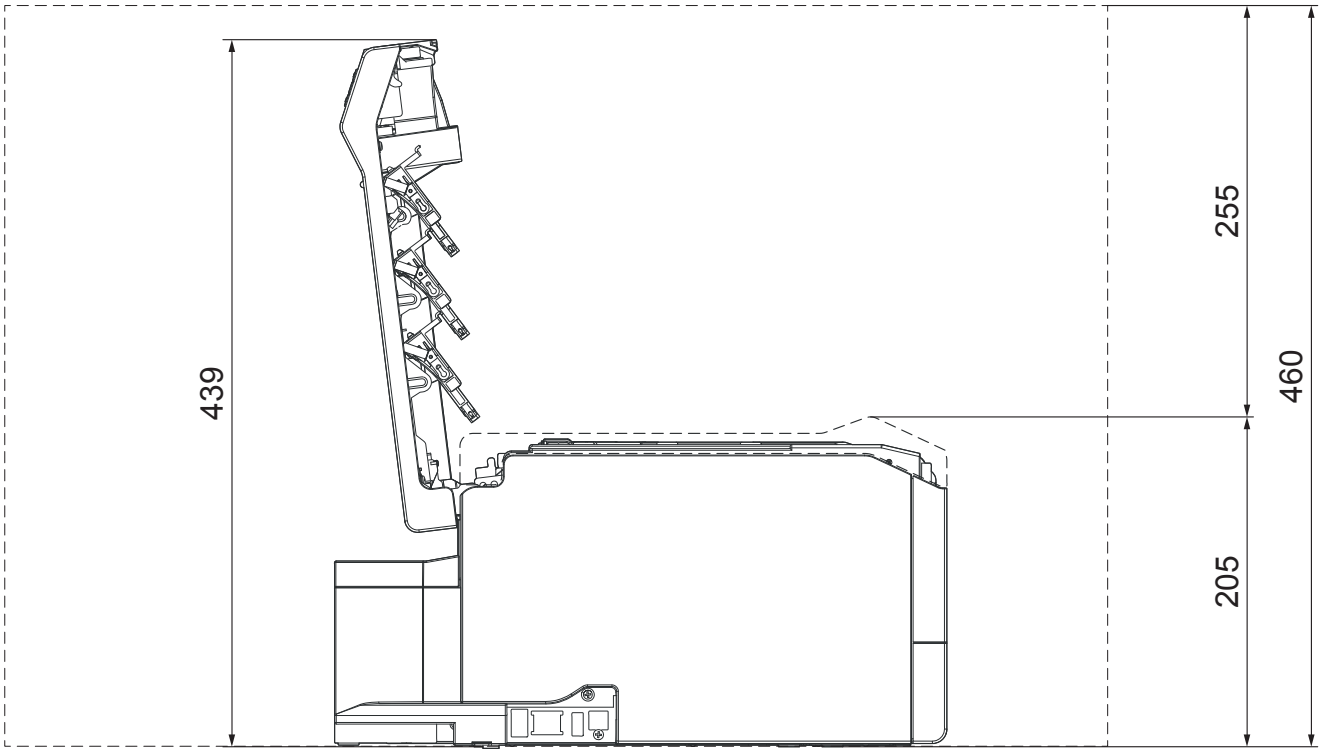
4 INSTALLATION

4.1 Installation space

Install the device on a flat surface that is wide enough to accommodate the legs of the device.
As shown in the following figures, allow enough space around the device.

All the dimensions shown in following figures are in millimetres.



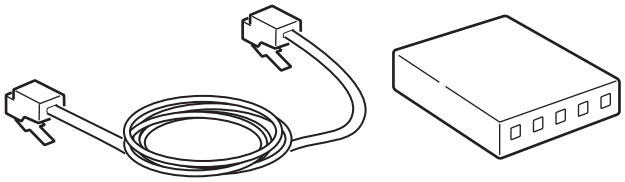


4.2 Connecting a LAN cable

A LAN cable can be used to connect the device to a computer via a wired network.
Before installing the printer driver (see paragraph 4.4), connect the printer to the network using a LAN cable.

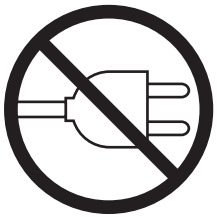
Proceed as follows:

1



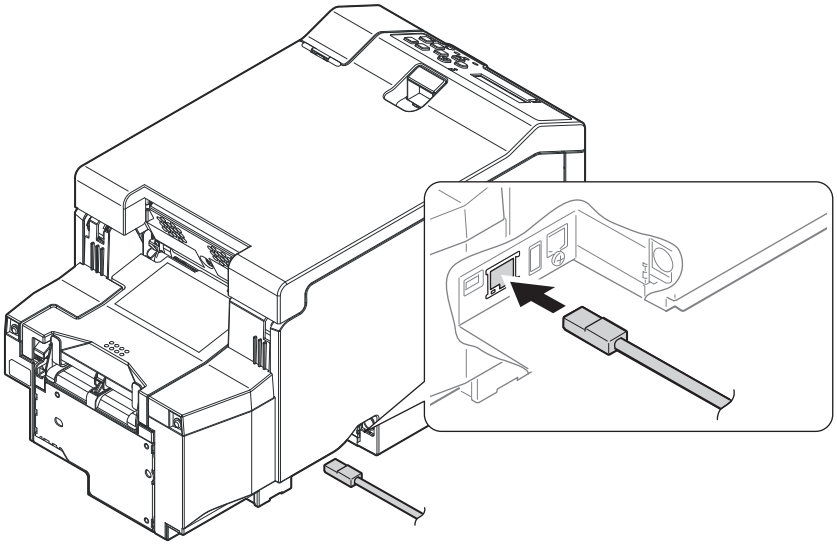
Prepare a LAN cable and hub.

2



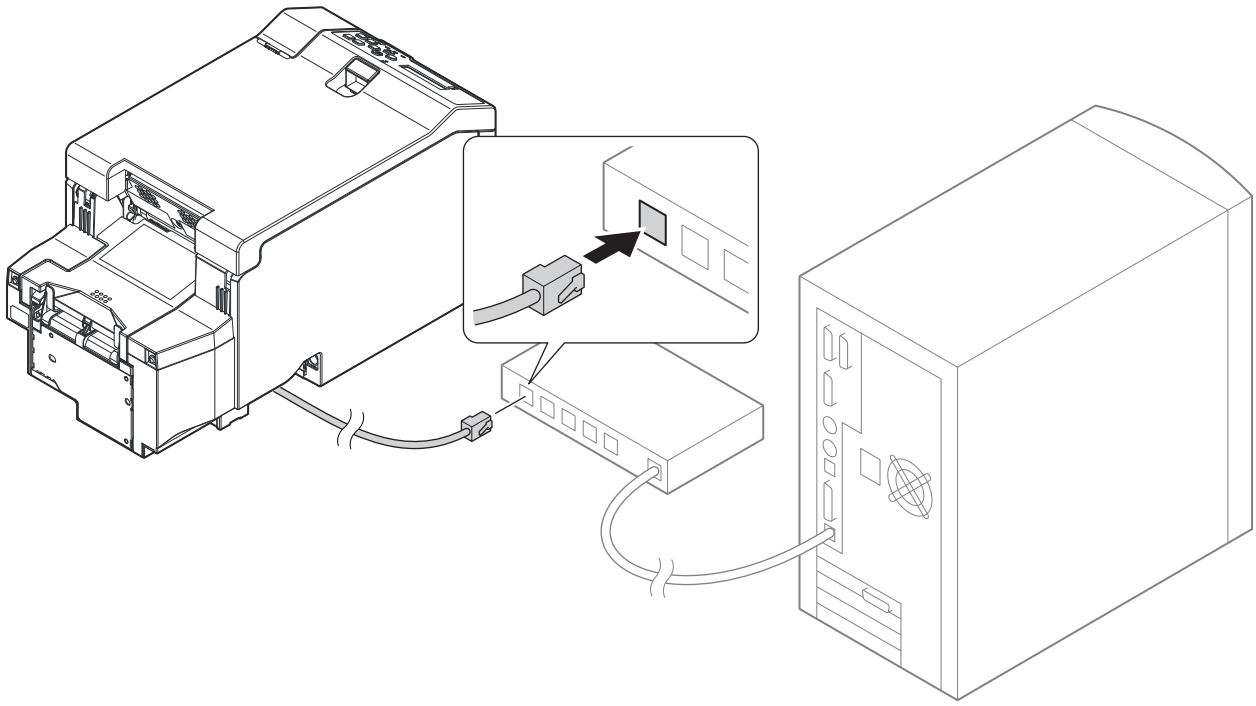
Make sure that the machine and the computer are turned off.

3



Insert the LAN cable into the network interface connector of the device.

4



Insert the other end of the LAN cable into the hub and
insert the LAN cable into the network interface connector of the computer.

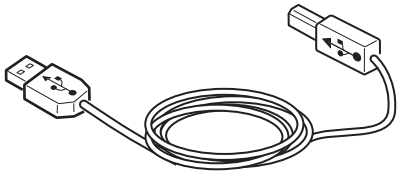
4.3 Connecting a USB cable

Make sure not insert the USB cable into the network interface connector. Doing so may cause a malfunction.

For Windows, do not insert the other end of the USB cable into the computer until an instruction appears on the screen during the printer driver installation.

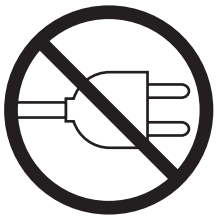
To connect an USB cable to the device, proceed as follows:

1



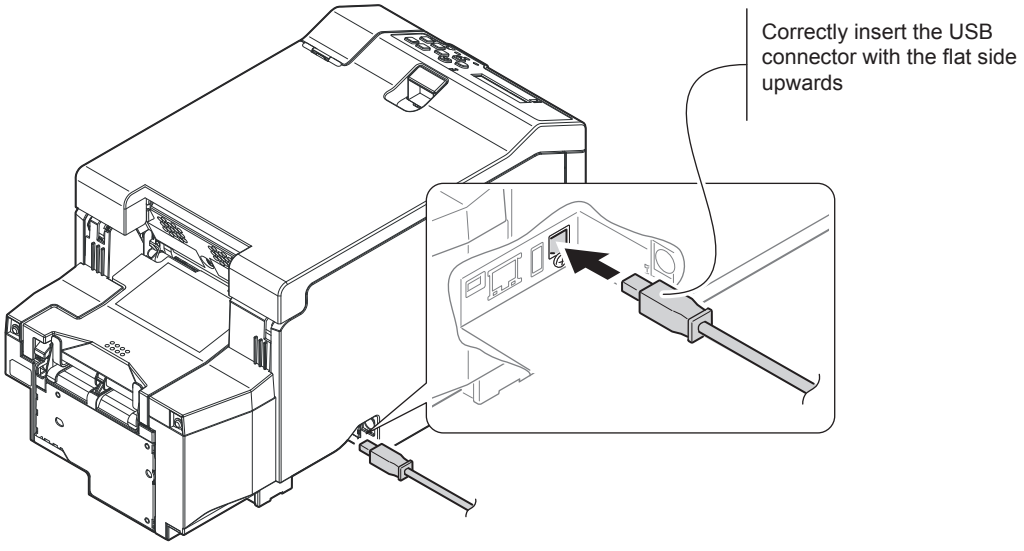
Prepare an A-B type USB cable.

2



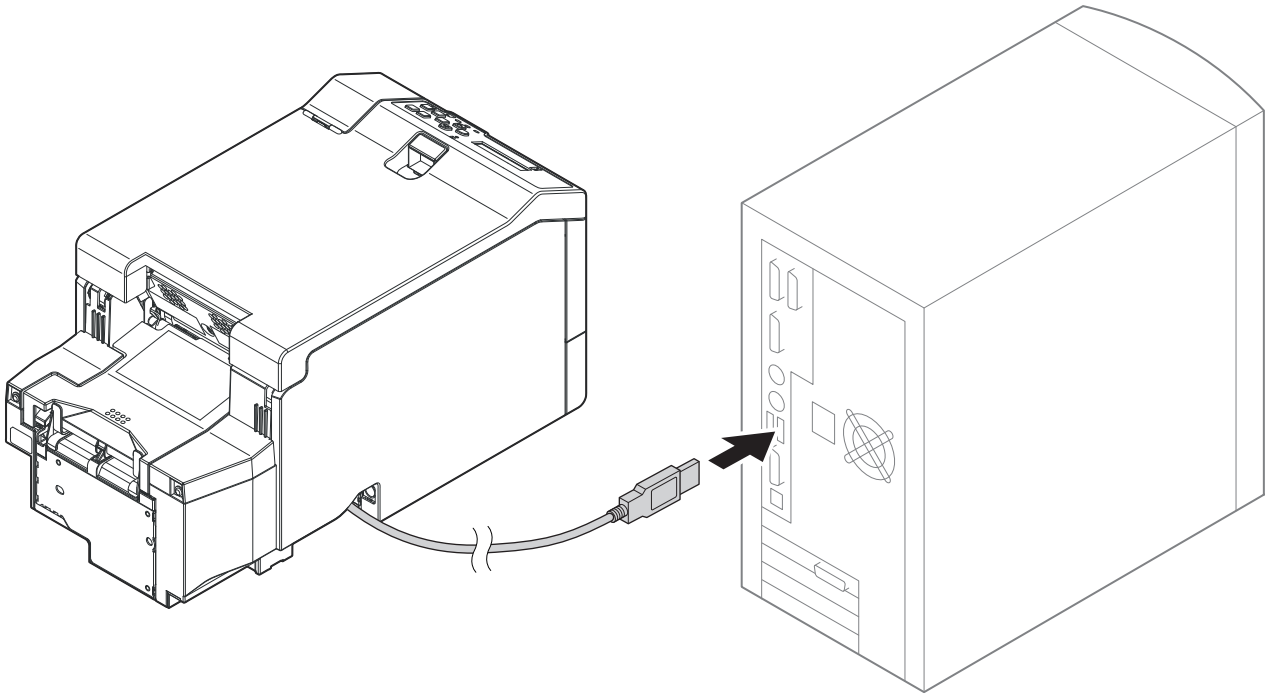
Make sure that the machine and the computer are turned off.

3



Insert the B end of the USB cable into the USB interface connector of the machine.

4



Insert the A end of the USB cable into the USB interface connector of the computer.

4.4 Driver and SDK

The drivers for the following operating system are available in the website www.custom4u.it.

OPERATING SYSTEM	DESCRIPTION	INSTALLATION PROCEDURE
Windows	Driver for Windows 7 (32/64 bit) Driver for Windows 10 (32/64 bit)	From the START menu, press Run and type-in the path where the SW was saved on your PC, then click OK. Follow the instructions that appear on the screen to install the driver.

4.5 Moving the device

Use the cover toner that came with the device when the product was purchased.
To move the device, proceed as follows:

- Turn off the device (see paragraph 5.9).
- Unplug all the cables.
- Remove the loaded paper.
- Remove the toner cartridge (see paragraph 5.4).
- Insert to the device the cover toner that was stored to replace the removed toner cartridge (see paragraph 5.3).
- Lift up the device and move it to destination.

ATTENTION: Keep the device in a stable position. Avoid rotating or turning upside down the device during transport.

4.6 Transporting the device

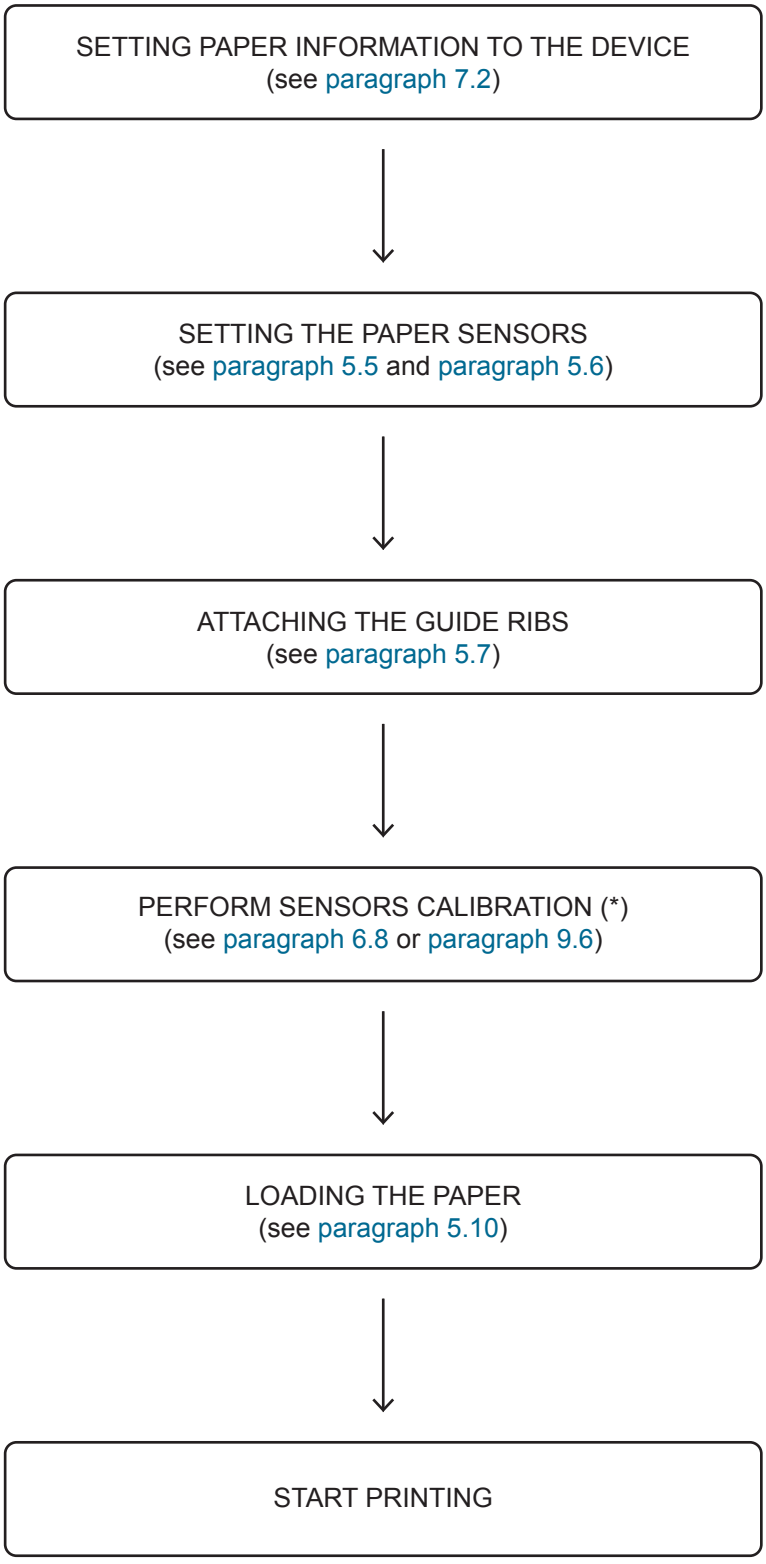
Use the packaging, cushioning material and cover toner that came with the device when the product was purchased. Proceed as follows:

- Turn off the device (see paragraph 5.9).
- Unplug all the cables.
- Remove the loaded paper.
- Remove the toner cartridge (see paragraph 5.4).
- Insert to the device the cover toner that was stored to replace the removed toner cartridge (see paragraph 5.3).
- Insert the device into the packaging.
- Attach the cushioning material.

ATTENTION: Keep the device in a stable position. Avoid rotating or turning upside down the device during transport.

5 DEVICE OPERATION

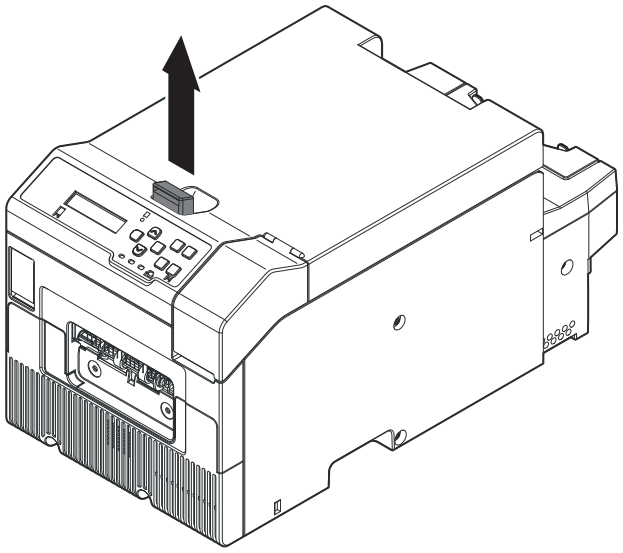
5.1 Operation flow



NOTE (*): The calibration must be performed at each change of paper type.

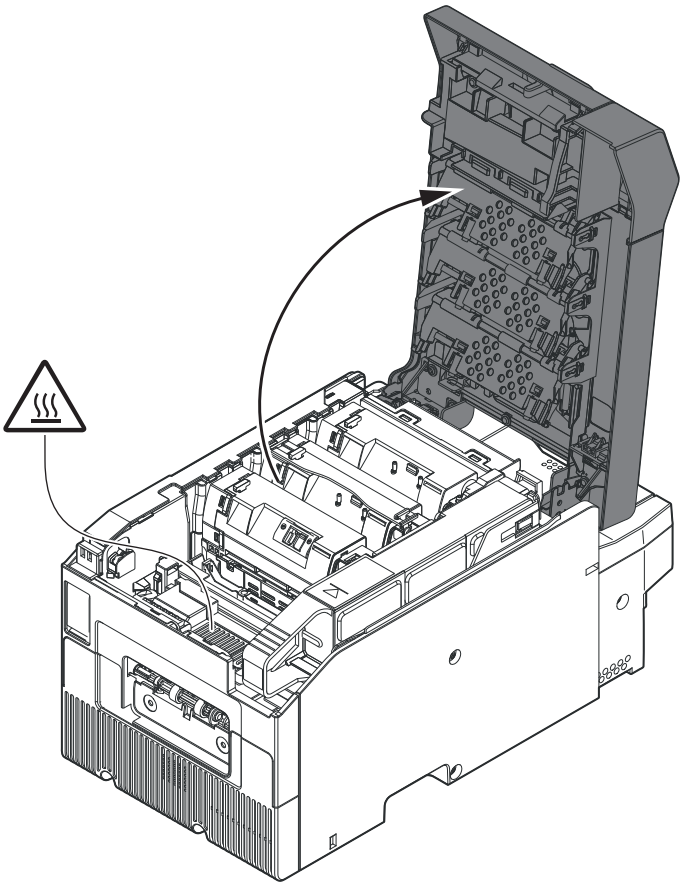
5.2 Opening device cover

1



Lift the opening lever in the direction shown in figure.

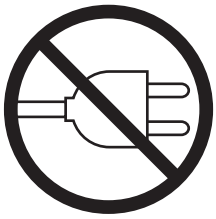
2



Open the top cover.

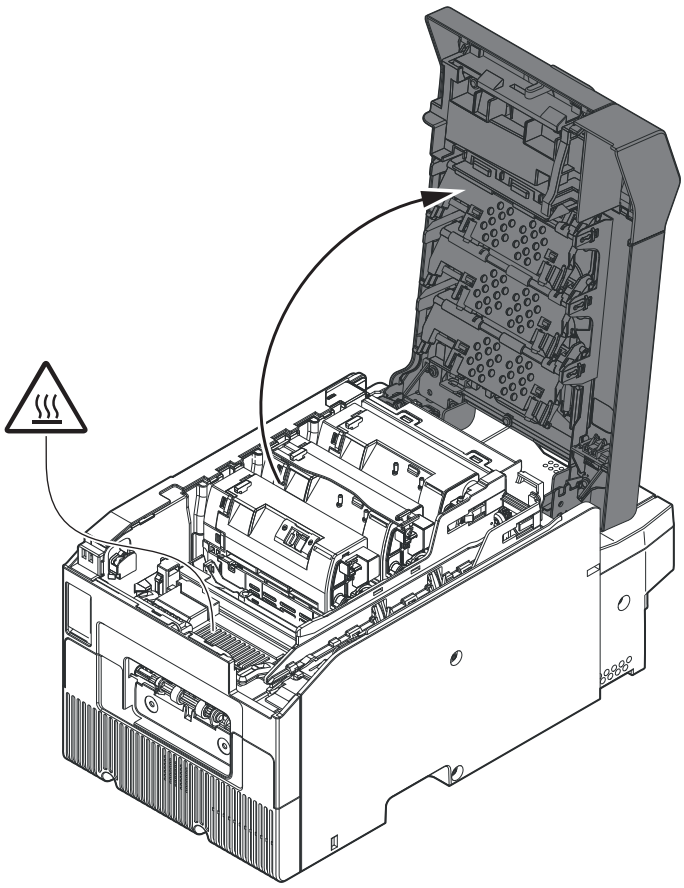
5.3 Installing the cartridge

1



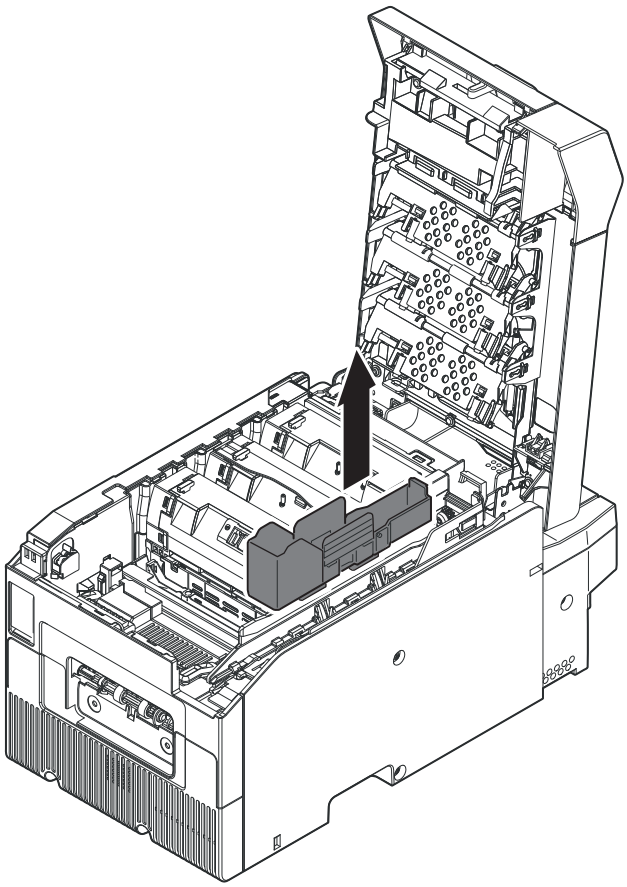
Disconnect the power supply cable
(see paragraph 5.9).

2



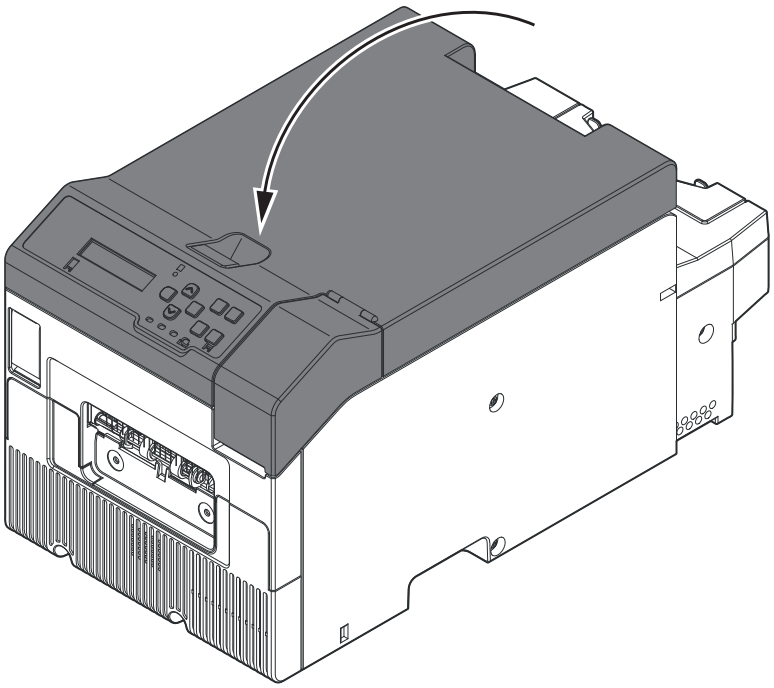
Open the device top cover
(see paragraph 5.2).

3



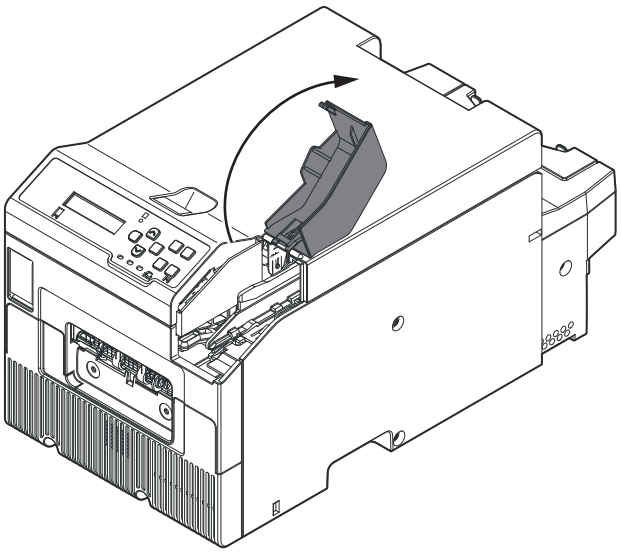
Remove the cover toner.

4



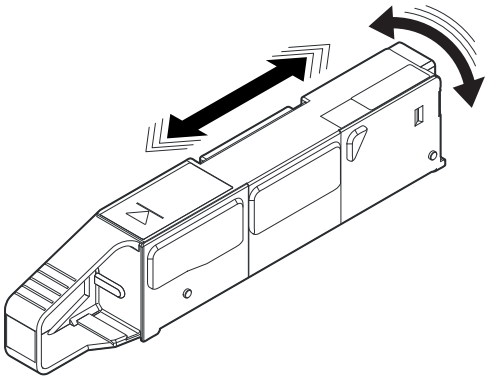
Close the top cover.

5



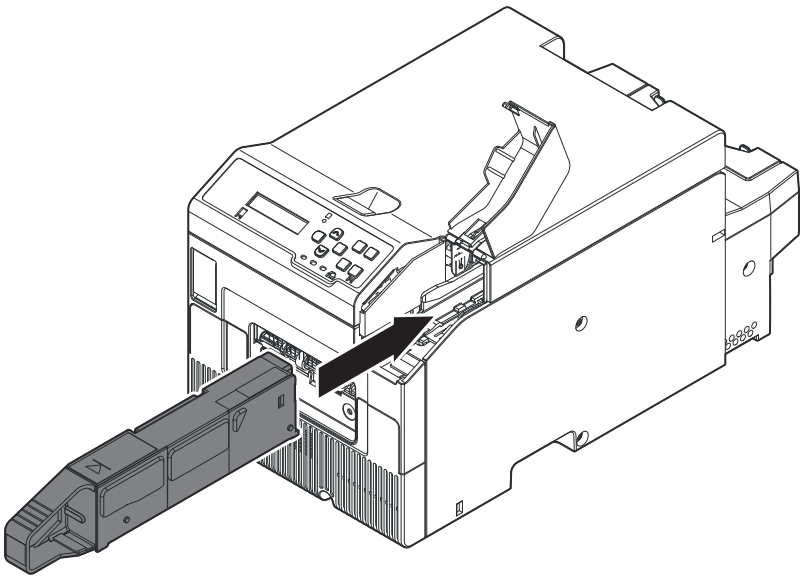
Open the cover for the toner cartridge compartment.

6



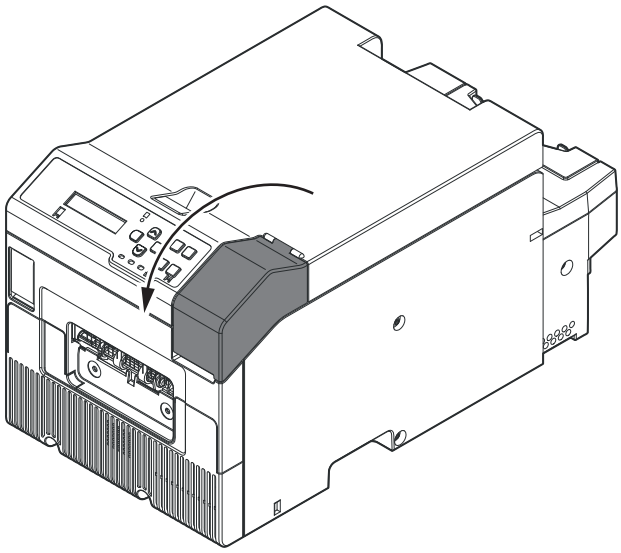
Take out the toner cartridge from the packaging bag, and shake it several times vertically and horizontally.

7



Insert the toner cartridge.

8



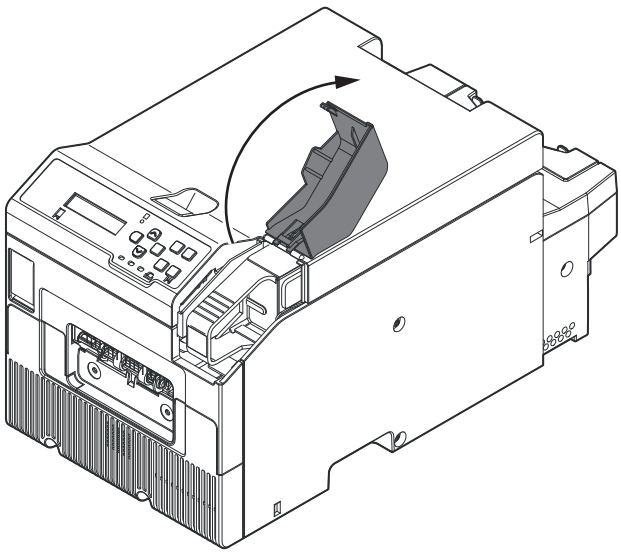
Close the cover for the toner cartridge compartment.

5.4 Replacing the toner cartridge

When “Order toner” is displayed on the screen of the operation panel, prepare a replacement cartridge.
When “Replace toner” is displayed and printing is stopped, replace the toner cartridge.
The print quality deteriorates after one year or more passes since you open the toner cartridge. In this case, prepare a new toner cartridge for replacement.
If you replace the toner cartridge while it is being used, the amount of toner used will not be counted accurately.

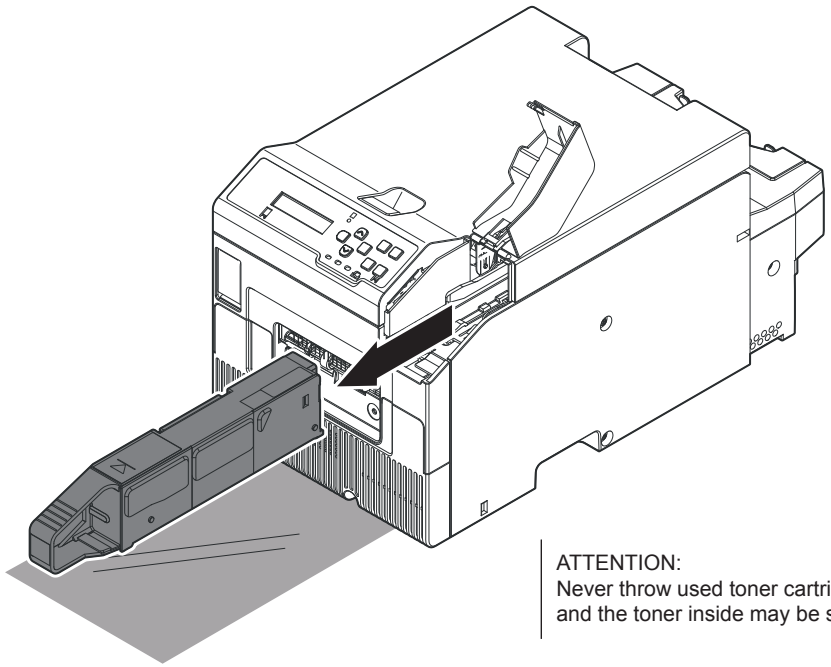
Proceed as follows.

1



Open the cover for the toner cartridge compartment.

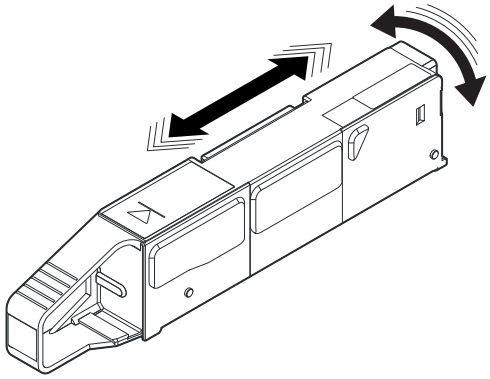
2



ATTENTION:
Never throw used toner cartridges into a fire. They may explode, and the toner inside may be scattered and cause burns.

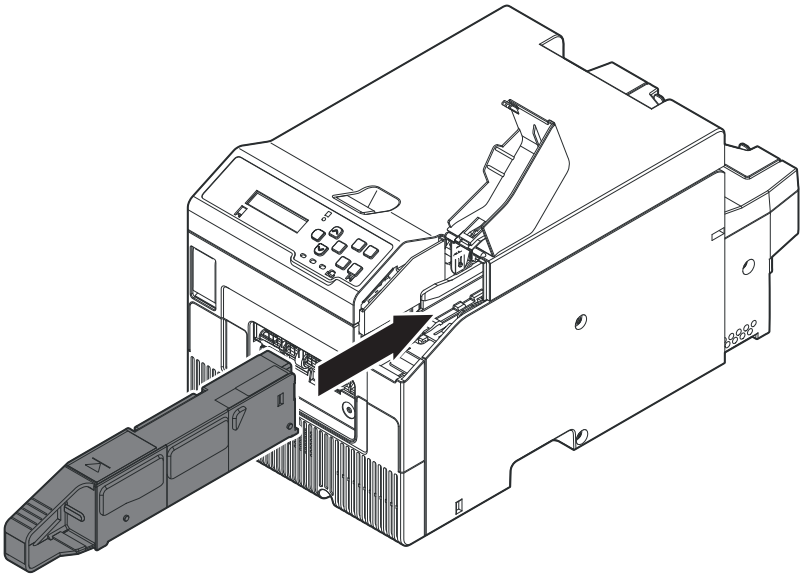
Pull out the toner cartridge.
Place paper under the removed toner cartridge, as toner may leak from the bottom.

3



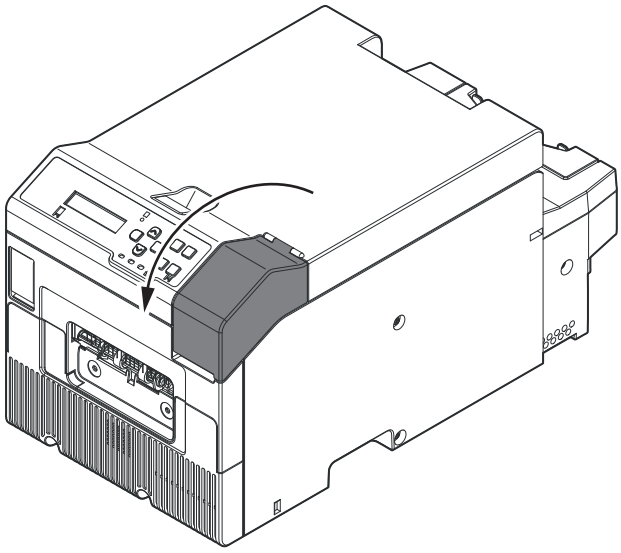
Take out the new toner cartridge from the packaging bag, and shake it several times vertically and horizontally.

4



Insert the toner cartridge.

5



Close the cover for the toner cartridge compartment.

5.5 Checking the paper sensors position

The position for setting the paper sensors differs according to the paper to use.
You must configure the parameters “Paper form”, “Cut type” and “Gap length” (see paragraph 7.1) during the printer driver or operation panel configuration procedure (see paragraph 7.2) and set the correct value of this parameters as described in the following table.

The setting of printer driver is prioritized.

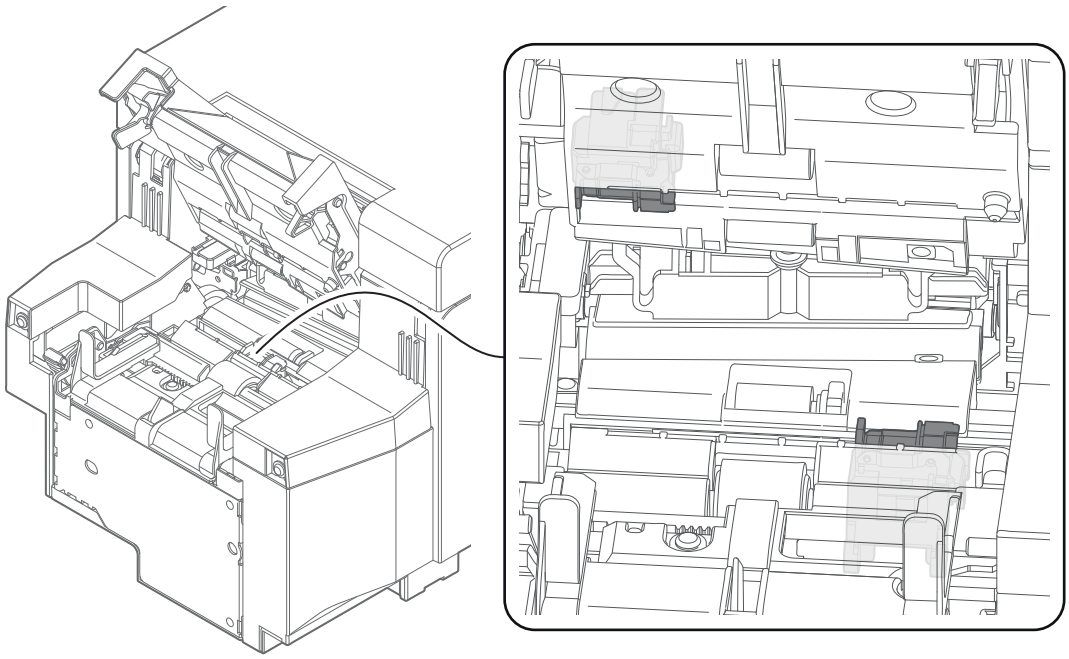
SUPPORTED PAPER TYPE	PAPER FORM	CUT TYPE	GAP LENGTH
Paper with black mark on the top	CONTINUOUS PAPER	B/M (FRONT)	-
Paper with black mark on the bottom	CONTINUOUS PAPER	B/M (BACK)	-
Paper with holes	CONTINUOUS PAPER	SIDE HOLE CENTER HOLE	-
Paper with labels	CONTINUOUS PAPER	GAP	from 3 mm to 13 mm
Paper without marks	CONTINUOUS PAPER	LENGTH	-
Cut sheet	CUT PAPER	-	-

The following paragraphs show how to correctly set the sensors position in order to assure the alignment.
To adjust the paper sensors position see paragraph 5.6.

If paper jams or paper mark detection errors occur frequently, follow the procedure below to perform sensor calibration (see paragraph 6.8 or paragraph 9.6).

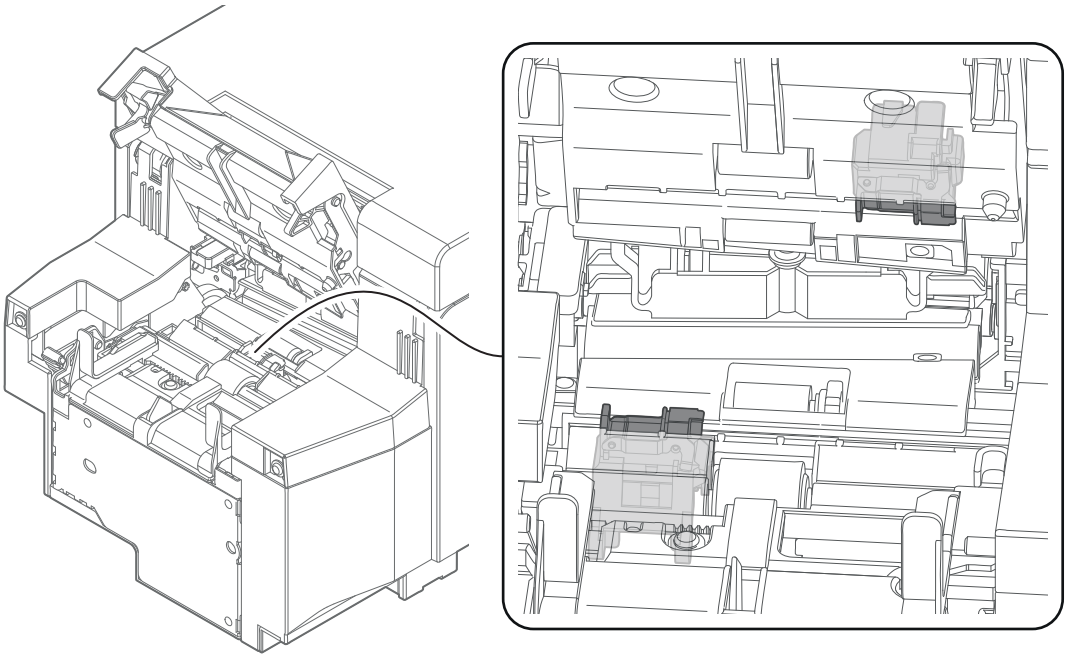
Paper with black mark on the front

Top sensor: Position of black mark
Bottom sensor: Position that does not overlap with the top sensor. Be sure bottom sensor, that detects the paper presence, is positioned within the paper width.



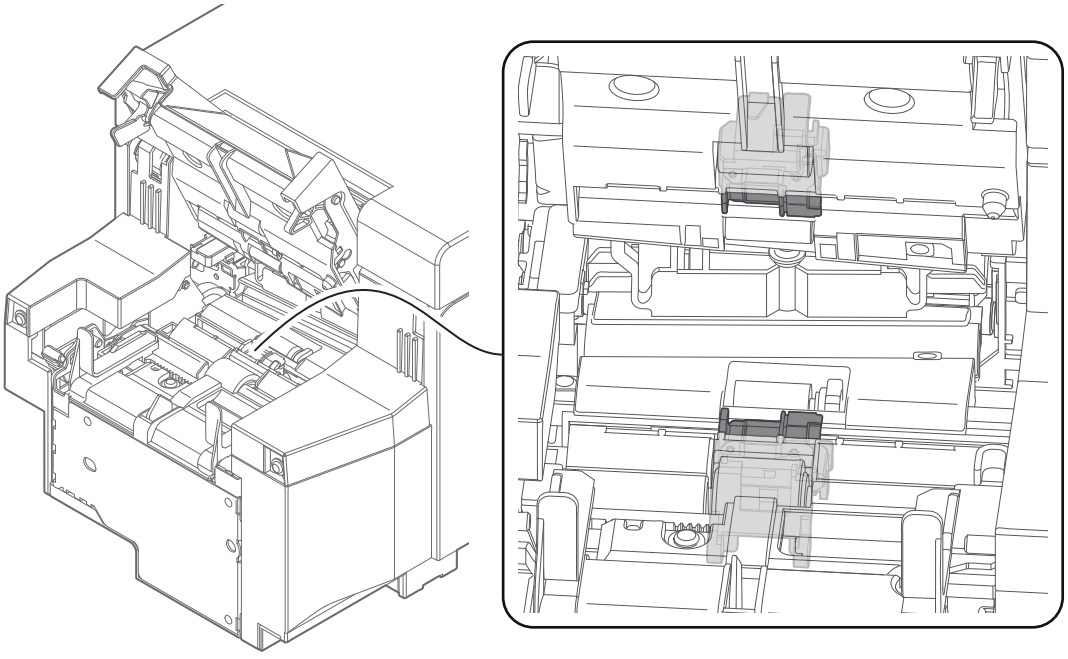
Paper with black mark on the back

Top sensor: Position that does not overlap with the bottom sensor
Bottom sensor: Position of black mark. Be sure bottom sensor, that detects the paper presence, is positioned within the paper width.



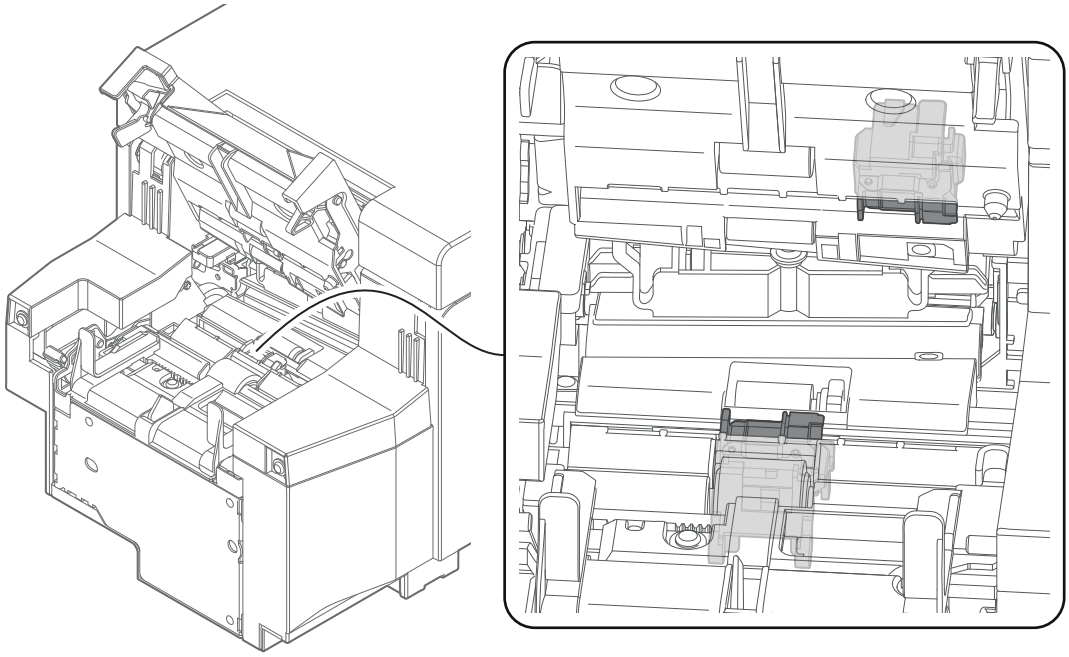
Paper with holes or labels

Top sensor: Position of hole
Bottom sensor: Position of hole. Be sure bottom sensor, that detects the paper presence, is positioned within the paper width.
Make sure sensors facing each other.



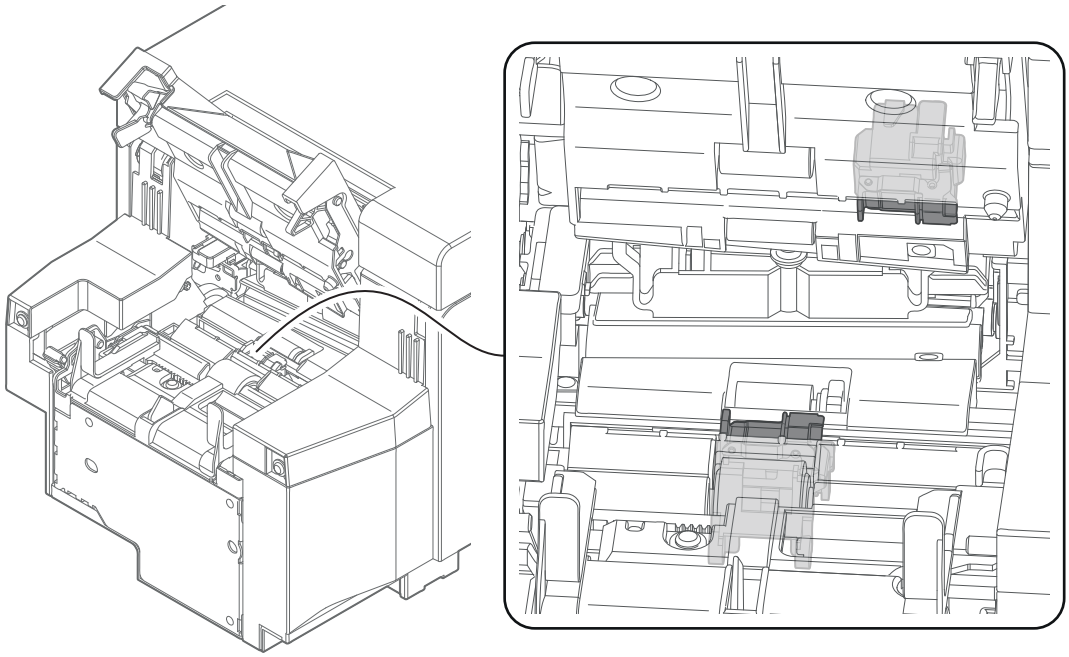
Paper without marks

Top sensor: Position that does not overlap with the bottom sensor
Bottom sensor: Center. Be sure bottom sensor, that detects the paper presence, is positioned within the paper width.



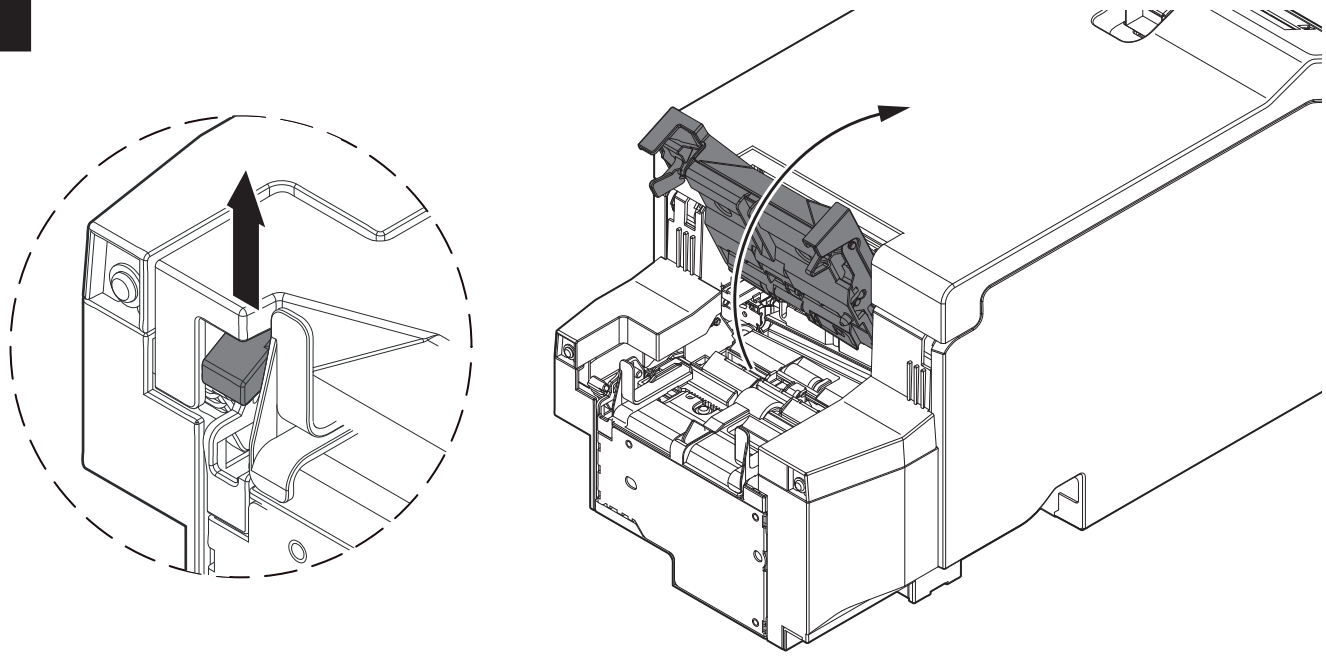
Cut sheet

Top sensor: Position that does not overlap with the bottom sensor
Bottom sensor: Center. Be sure bottom sensor, that detects the paper presence, is positioned within the paper width.



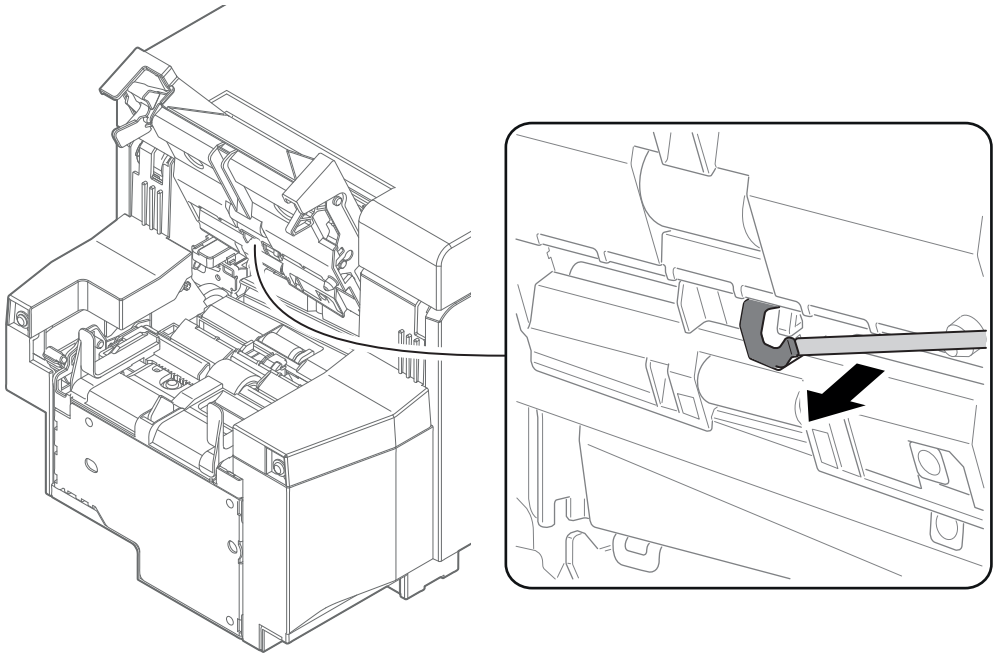
5.6 Adjusting the paper sensors position

1



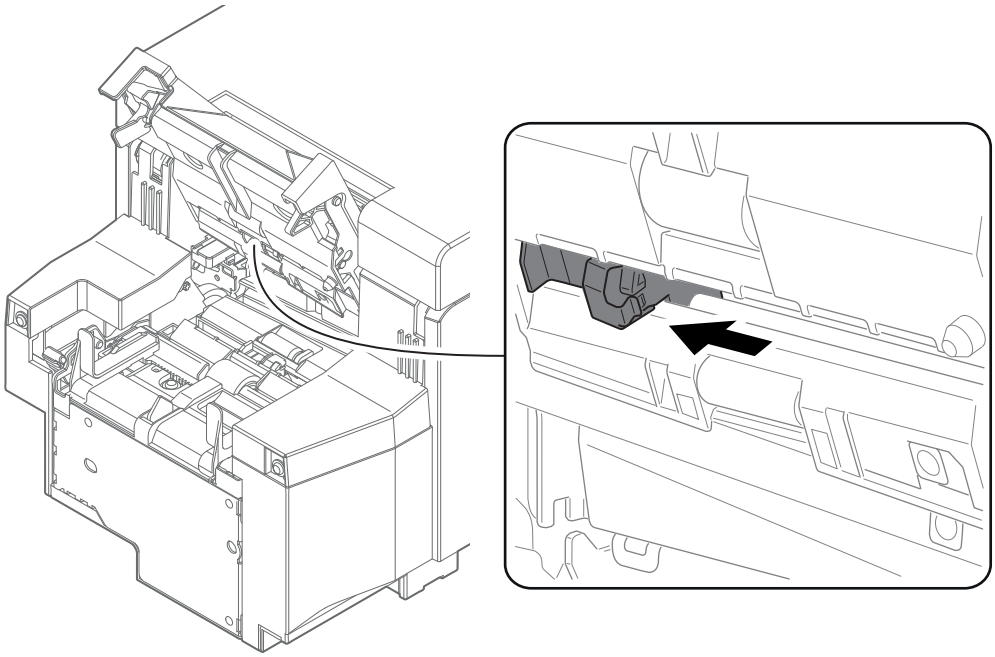
Insert your finger below the gray lever on the left, and lift it up to open the feeder cover.

2



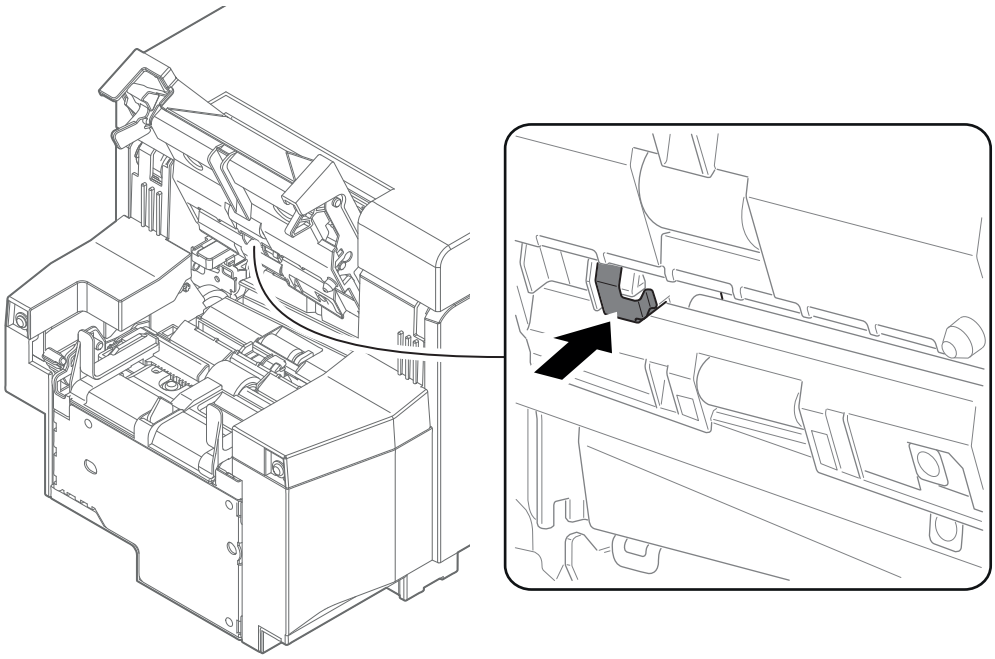
Insert a stick-shaped thing with a pointing tip (such as a ball-point pen) into the back of the metal part of the upper sensor on the back of the feeder cover, and pull it out to unlock it.

3



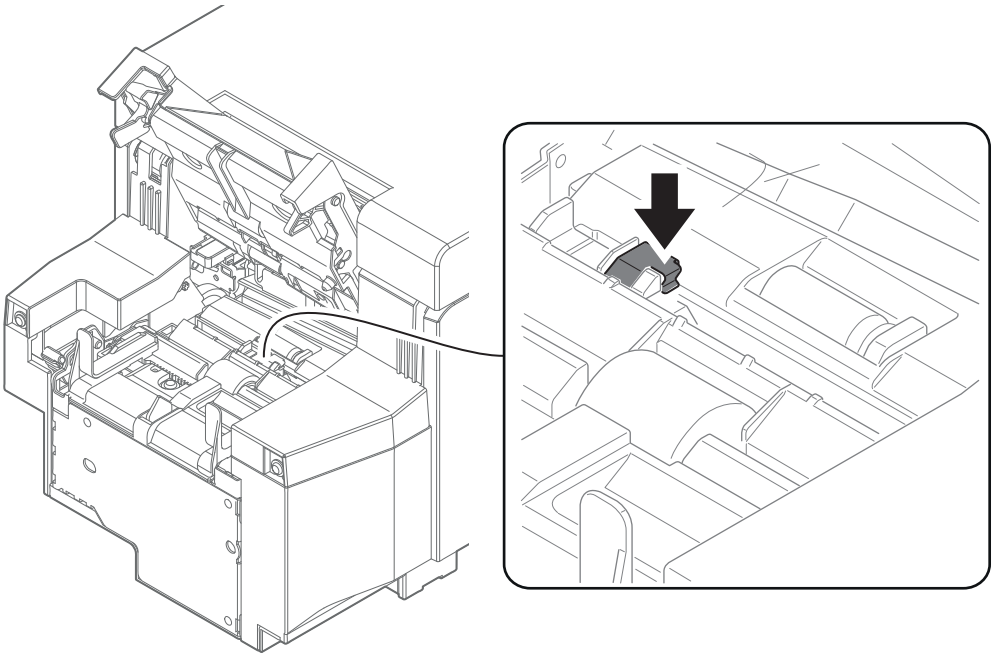
Hold the both ends of the upper sensor and move it to the correct position.

4



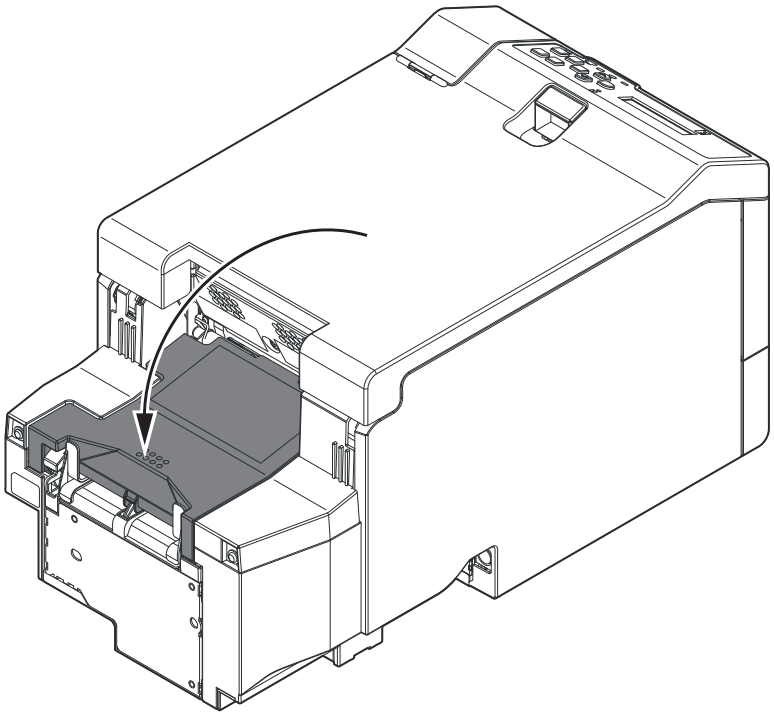
Push in the metal part of the upper sensor to fix the sensor.

5



Repeat the operation for the bottom sensor.

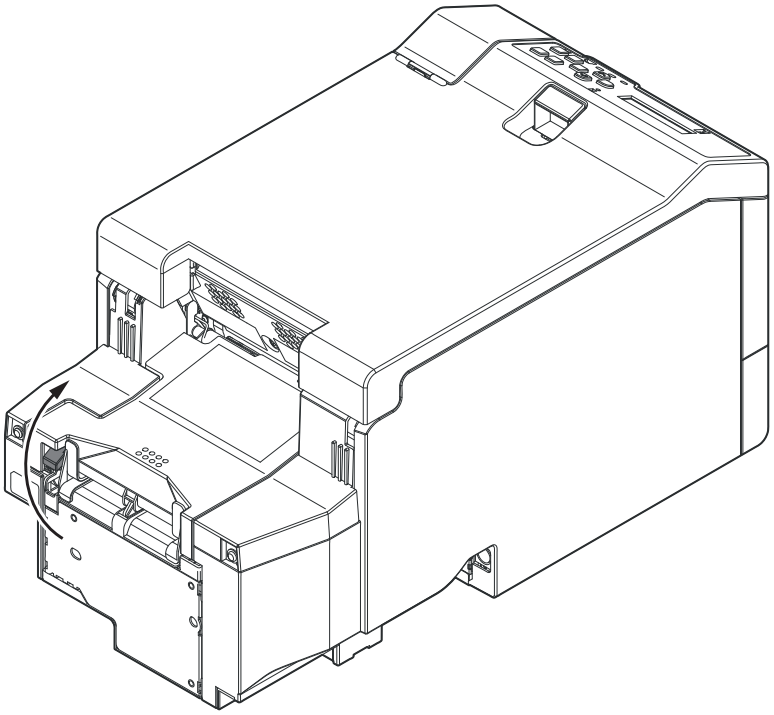
6



Close the feeder cover.

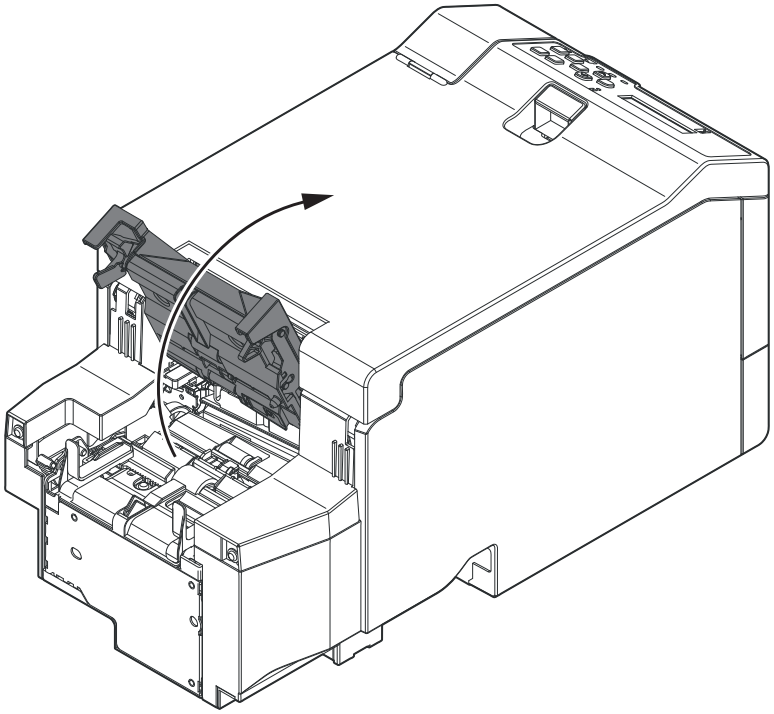
5.7 Attaching the guide ribs

1



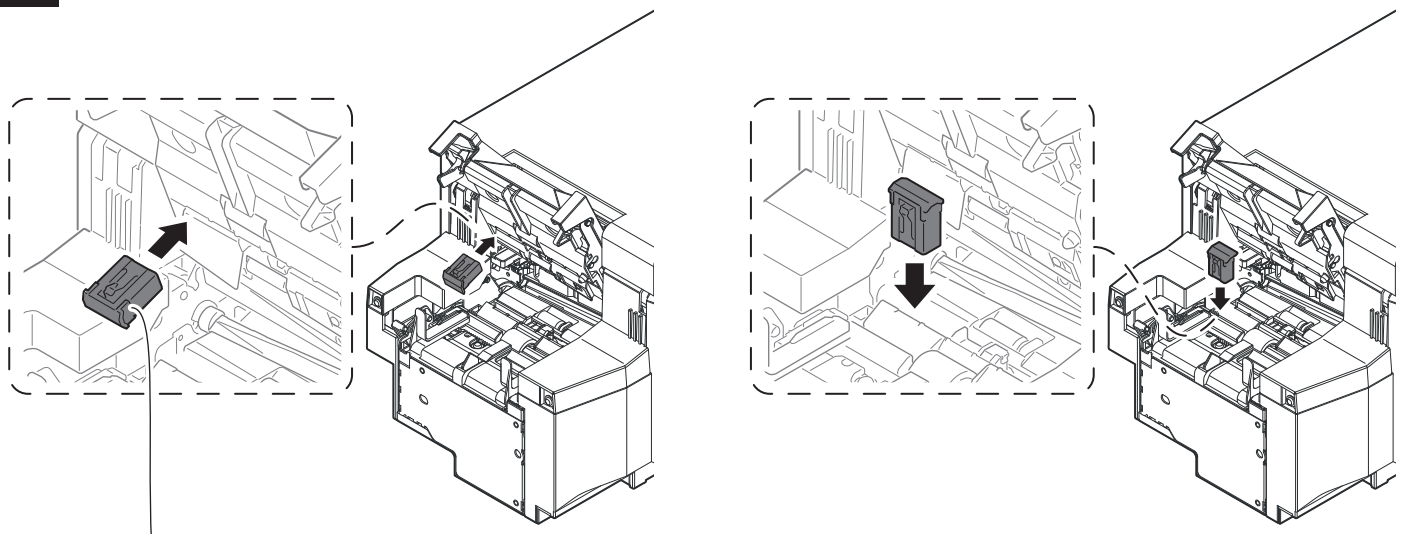
Insert your finger below the gray lever on the left and lift it up.

2



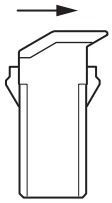
Open the feeder cover.

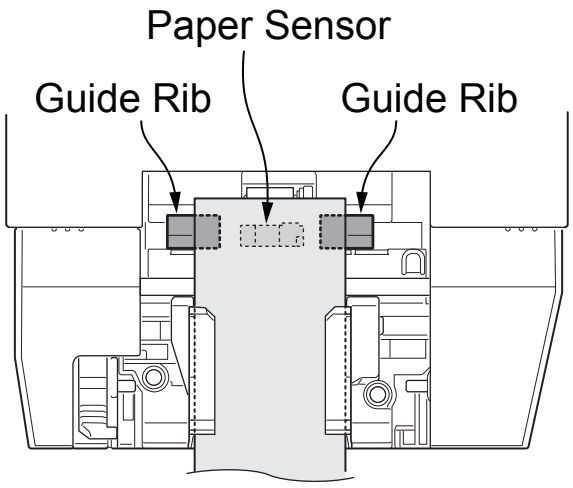
3



ASSEMBLY NOTE
Take care of the orientation
of the guide rib

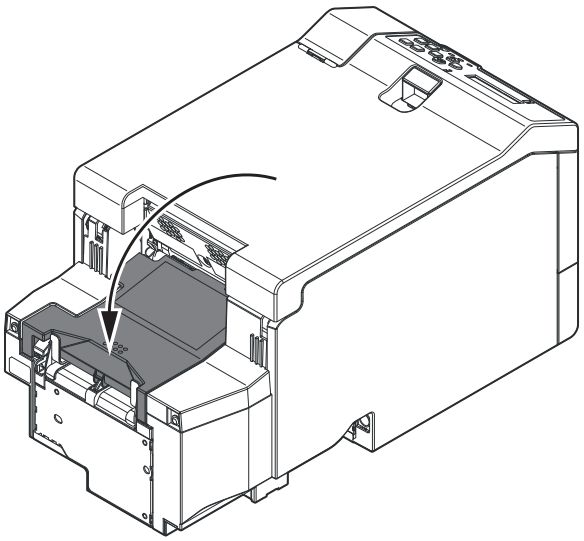
Feed Direction





Attach the guide rib to the position where the paper edge
will be retained of the groove where the paper sensors move.

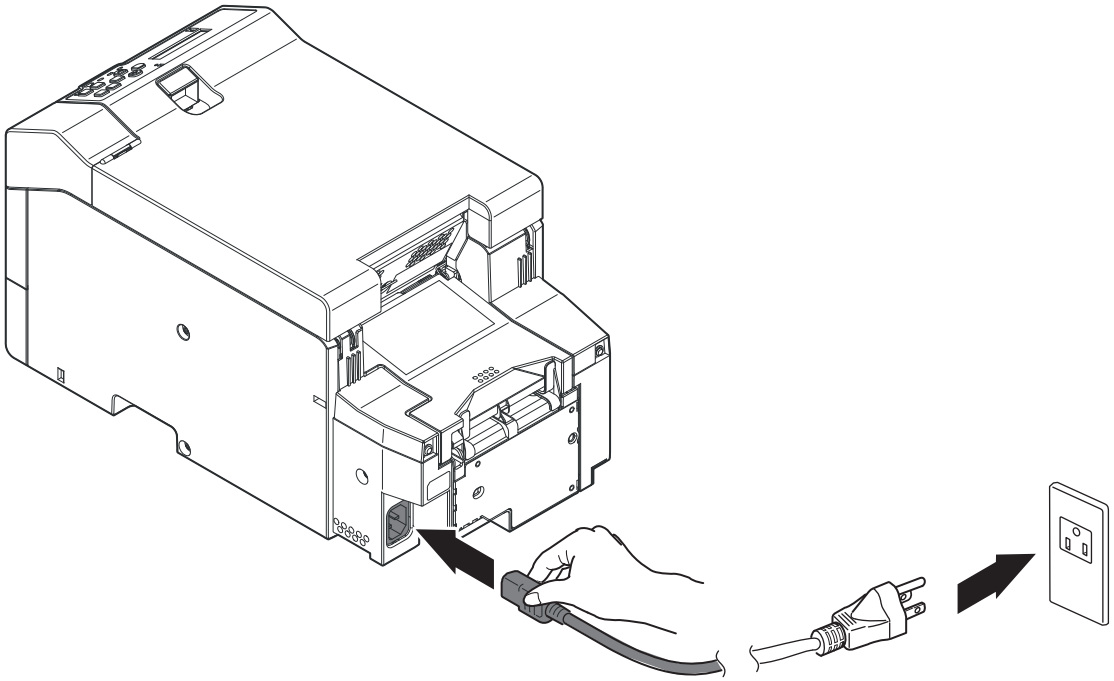
4



Close the feeder cover.

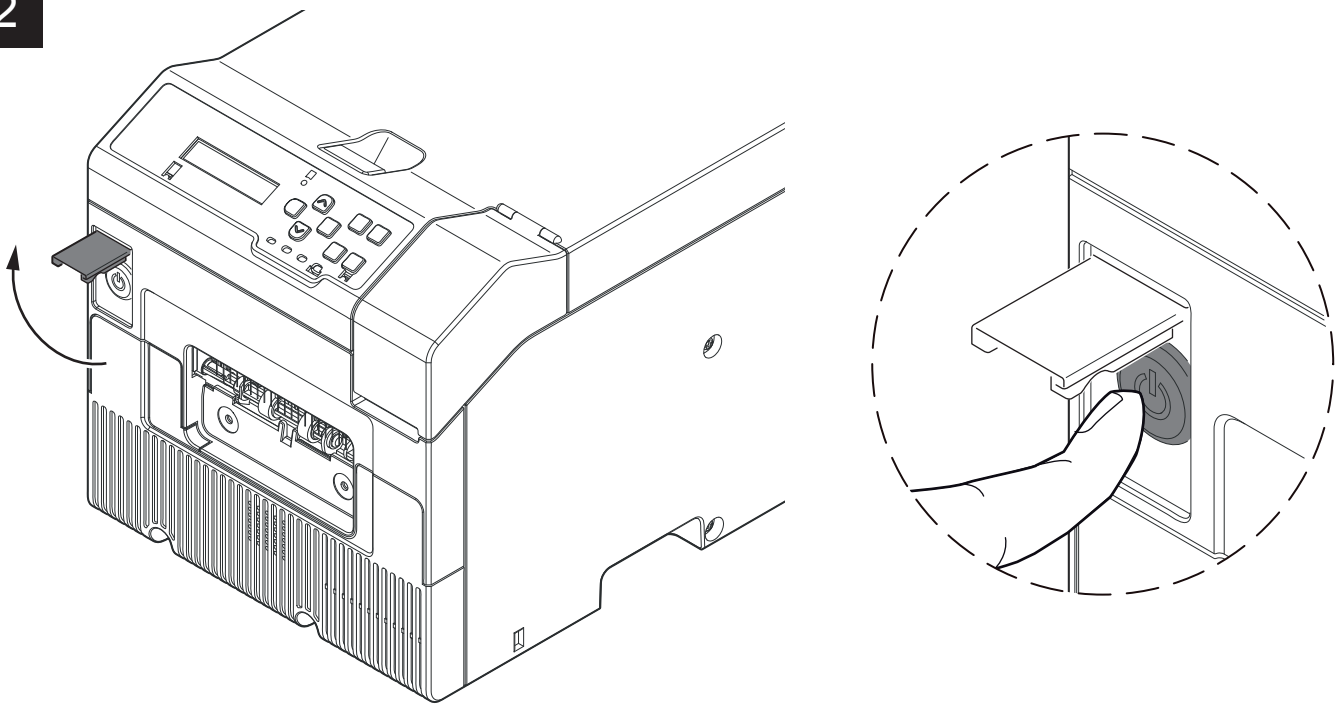
5.8 Switch the device on

1



Connect the power adapter to the device and the mains outlet.
Use the type of electrical power supply indicated on the label.

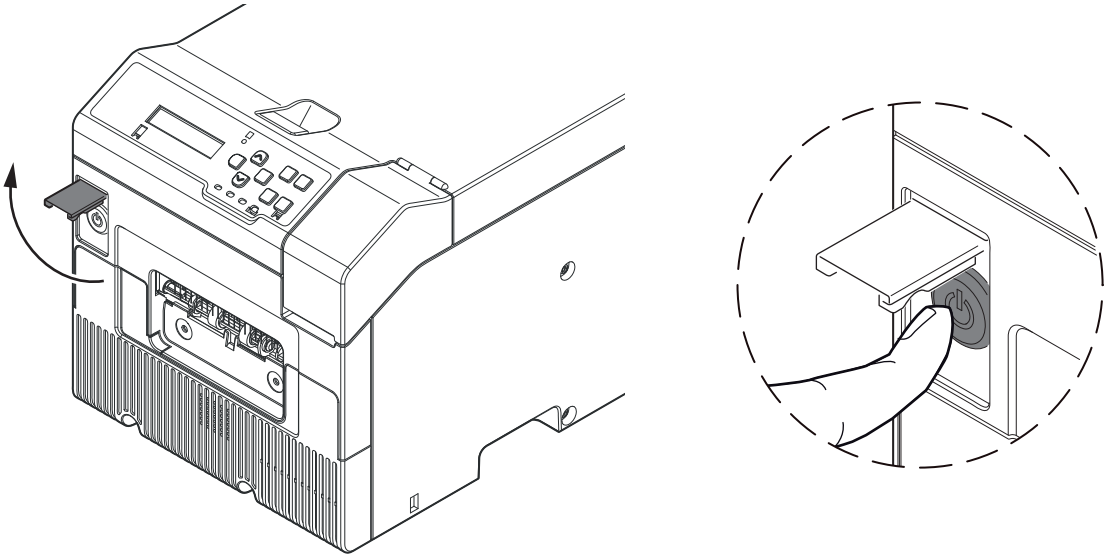
2



Open the cover on the front left of the machine and
press and hold the power switch for approximately one second.

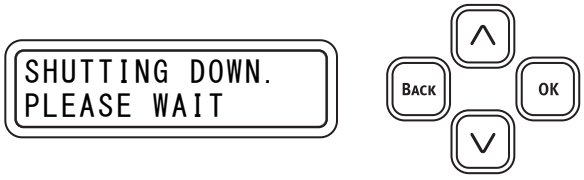
5.9 Switch the device off

1



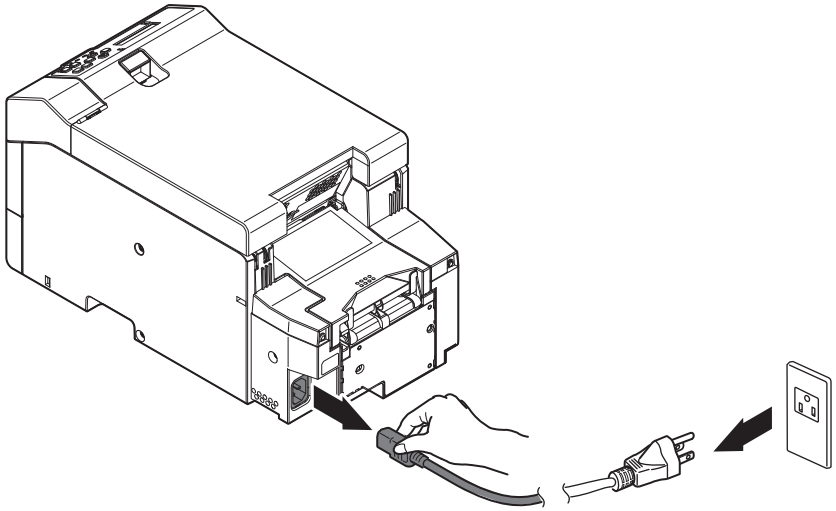
Open the cover on the front left of the machine and
press and hold the power switch for approximately one second.

2



Wait until “Shutting down. Please wait / Turn off automatically” is displayed
on the operation panel and the operation panel turns off.

3



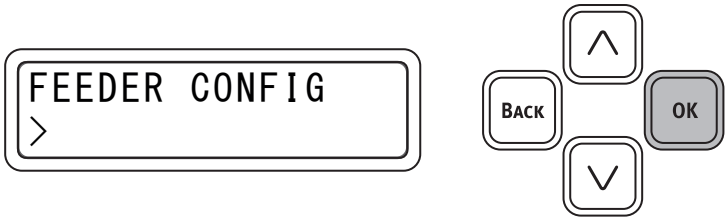
Remove the power plug from the outlet and
remove the power cable from the power connector on the rear of the machine.

NOTE: When you want to shutdown the device forcefully, press and hold the power switch for more than 5 seconds.

5.10 Loading the paper

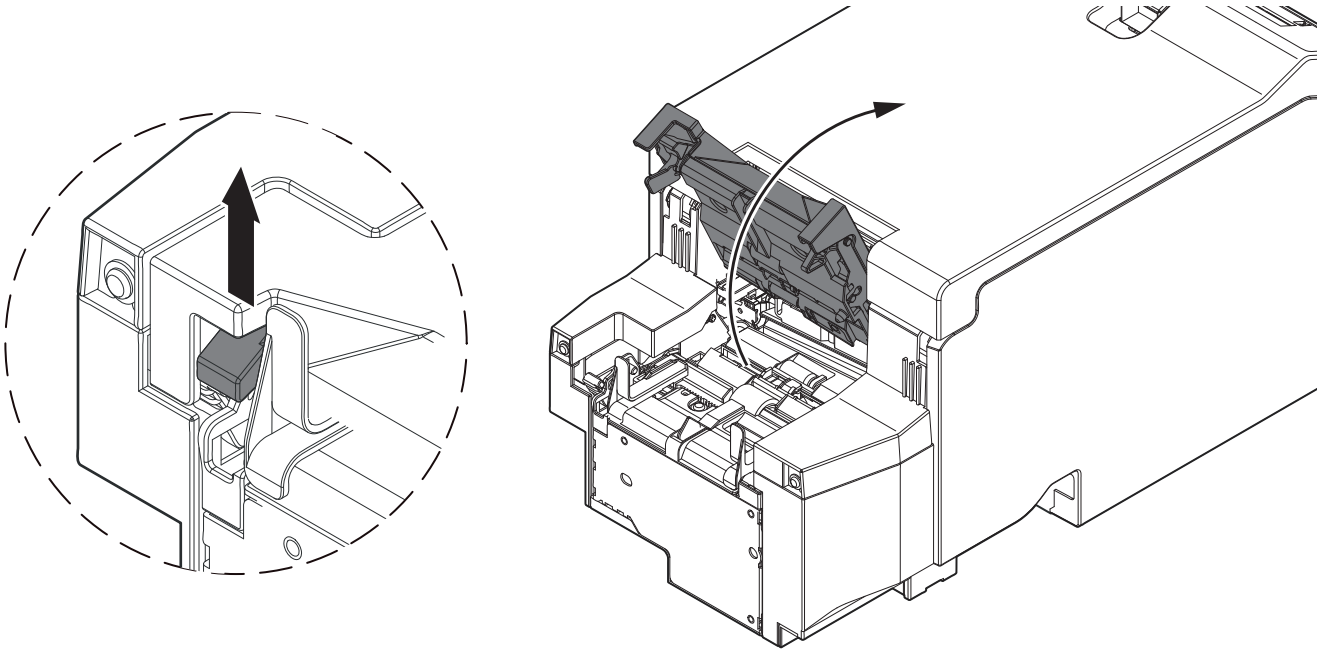
To change the paper roll proceed as follows. At every paper change, check inside the device to locate and remove any scraps of paper.

1



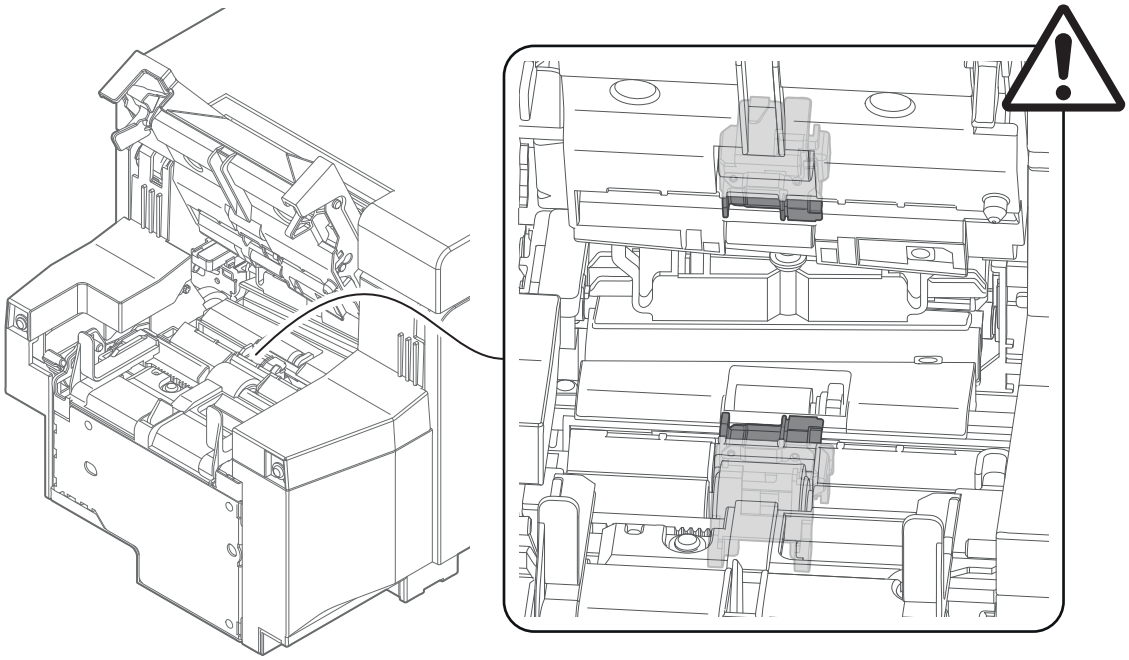
Check or set the correct paper feeder configuration (see paragraph 7.2).

2



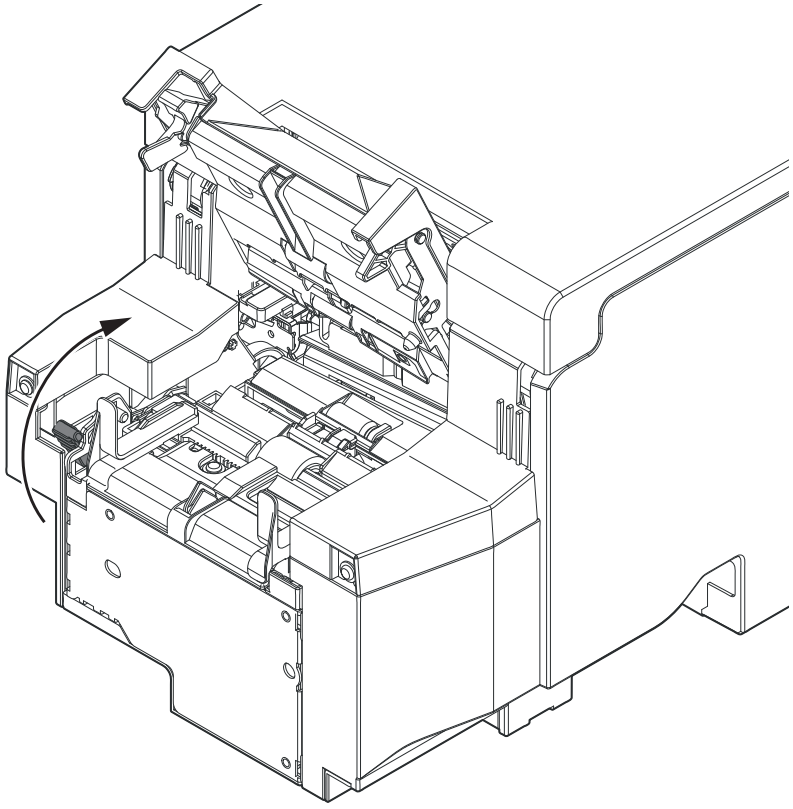
Insert your finger below the gray lever on the left, and lift it up to open the feeder cover.

3



According to the set feeder configuration, set the upper and lower paper sensors in the appropriate positions (see paragraph 5.5 and paragraph 5.6).

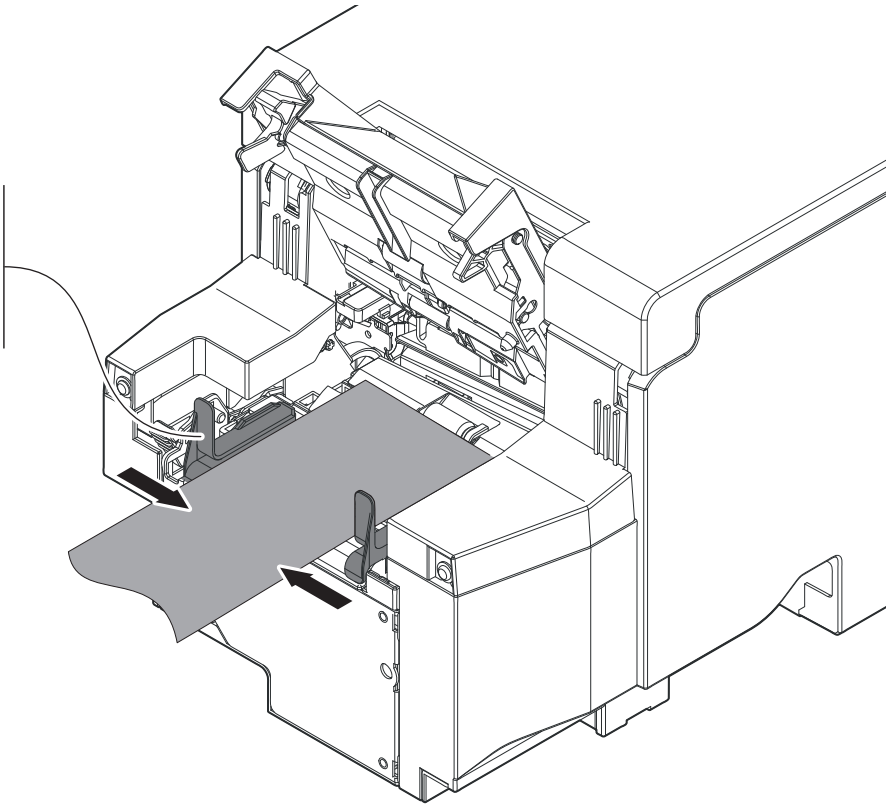
4



Turn up the paper guide lever on the left side on the front of the machine to unlock it.

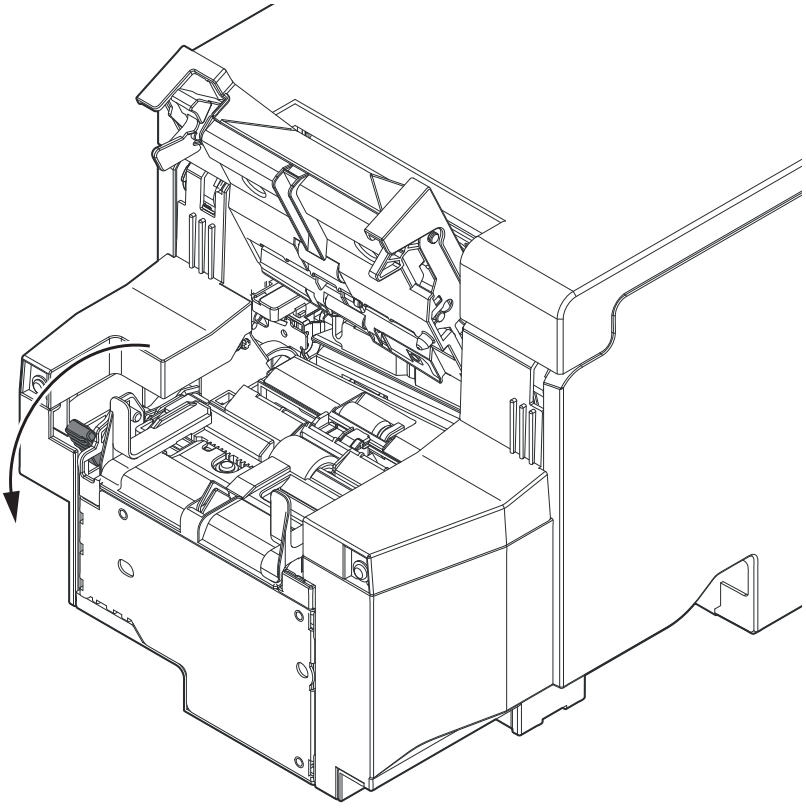
5

ASSEMBLY NOTE
Adjust the paper guide so that there is no gap between it and the paper.



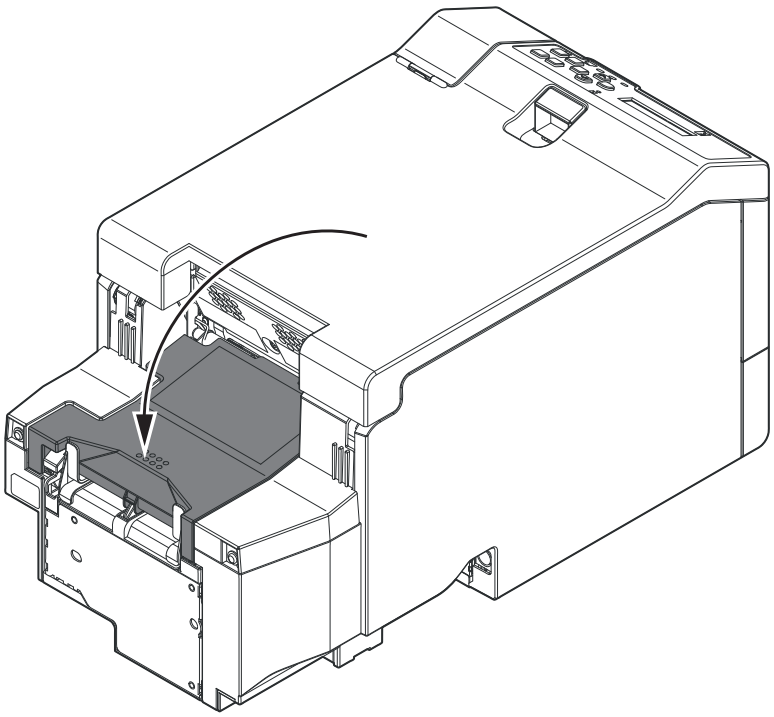
Align the paper guide with the paper width.

6



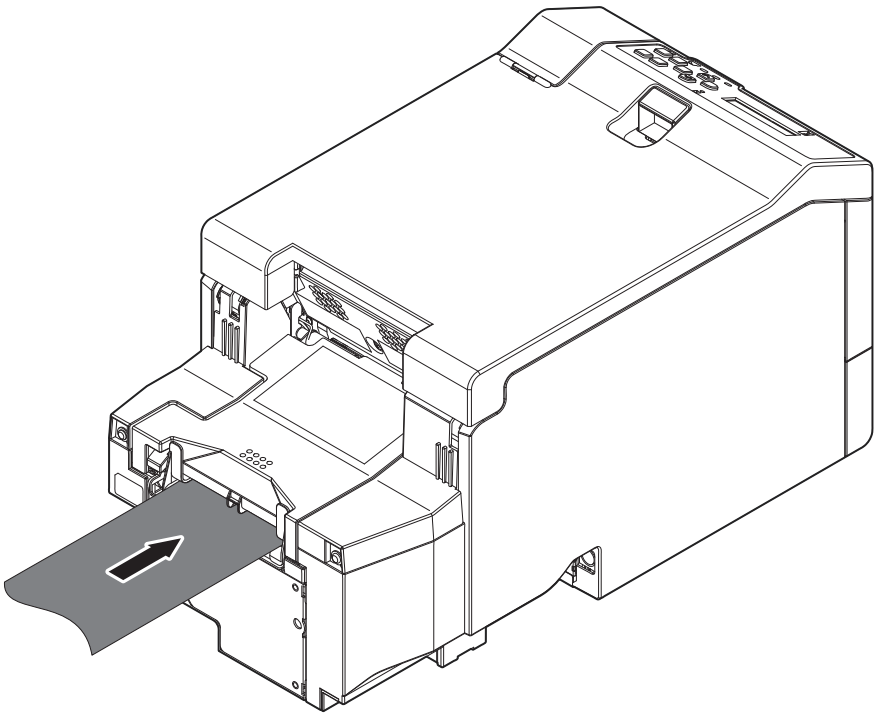
Turn down the paper guide lever toward you to lock it.

7



Remove the paper temporarily and close the feeder cover.

8

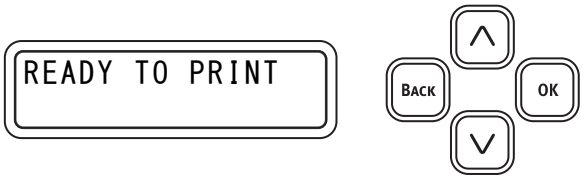


Insert the paper into the inlet until it stops.
The paper is automatically loaded.

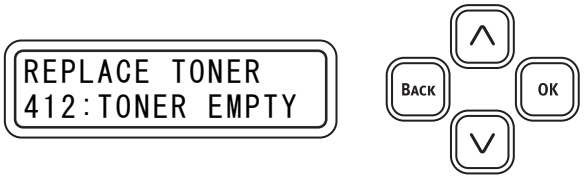
6 PANEL OPERATION

6.1 Display description

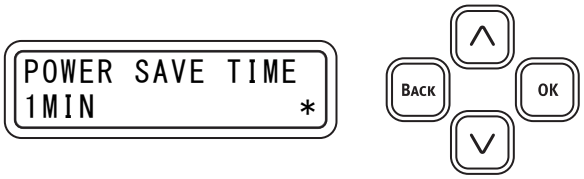
The display indicates the status of the device and the menu items, etc.
When the device can perform printing, the message “Ready to print” is displayed on the top of the screen.



When an error has occured in the device, the upper row displays the solution while the lower row displays the error code and the error type.



When the device is in the menu mode, the upper row displays the category or the item while the lower row displays the setting when an item is displayed on the top.

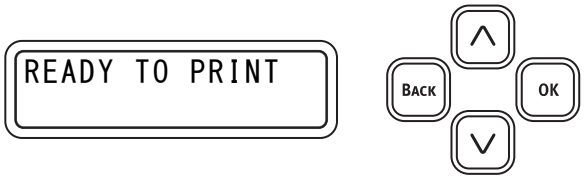


The menu depth (level) is also displayed with “>”.
When “>” or “>>” is displayed, there are items in a lower level.
For details on menu item, see paragraph 7.1.

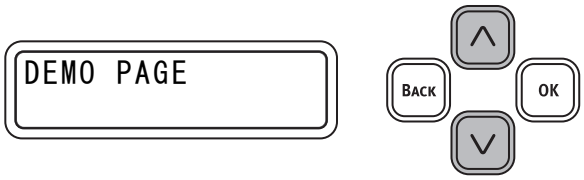
6.2 Entering and viewing the menu

To enter and view the different menu items, proceed as follows:

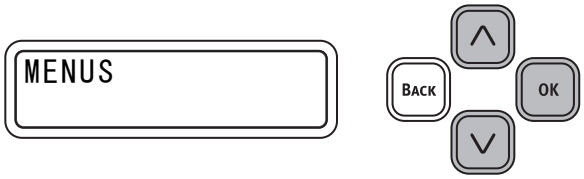
- Confirm that “Ready to print” is displayed on the device.



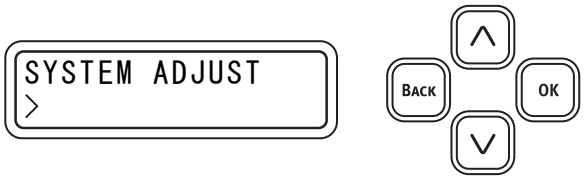
- Press ∧ or ∨ to enter the Menu mode and display the menu categories.



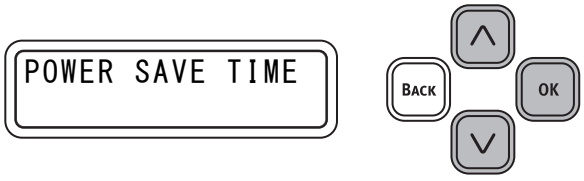
- Press ∧ or ∨ several times to display the category you want to set, and press OK.



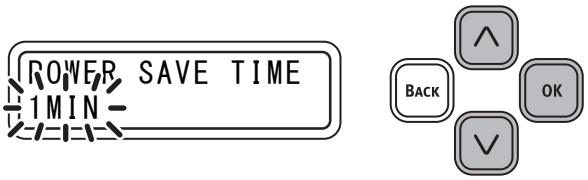
- Display the lower menu categories. The “>” indicating the menu depth is displayed on the bottom of the screen while “>>” is displayed on the bottom of the screen if there are more lower menu categories.



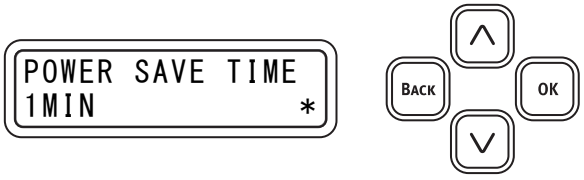
- Press ∧ or ∨ several times to display the category you want to set, and press OK.



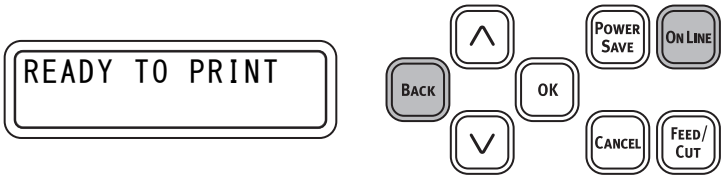
- When an item is displayed on the top and a setting is displayed on the bottom, press OK to make the setting flash and become changeable. Press ∧ or ∨ several times to display the value you want to set, and press OK.



- "*" is displayed on the right edge of the setting.



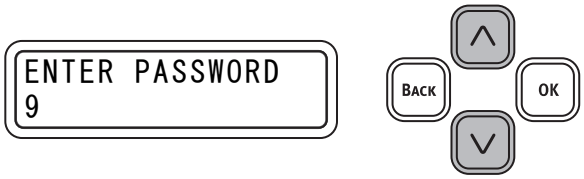
- To end the Menu mode, press ONLINE, or press BACK until "Ready to print" is displayed.



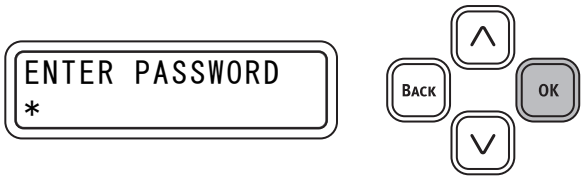
6.3 Entering characters

To enter characters, proceed as follows:

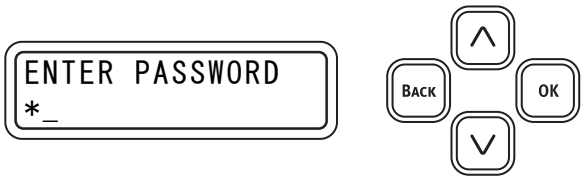
- When the screen for entering the password, etc. is displayed, press ∧ or ∨ to select the character to enter. Press ∧ to display characters starting with lower case letters. The characters are displayed in the following order: lower case letters > symbols > upper case letters > numbers (0 to 9).
  Press ∨ to display the characters in reverse order.



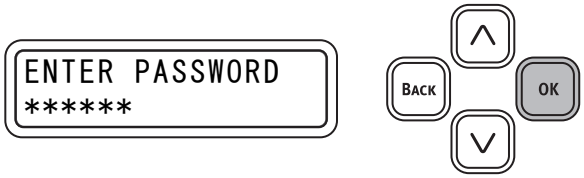
- Press OK to confirm the selected character.



- The cursor moves to the next digit.



- Perform the same operation to enter the rest of the characters, and press OK when all the characters have been entered.

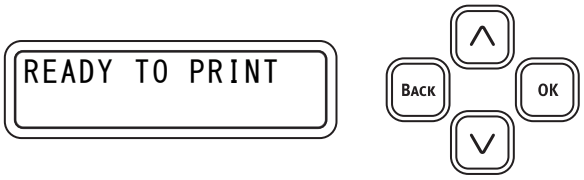


6.4 Printing a demonstration page

For printing a demonstration page, use cut sheet or roll paper without a mark. The operation is not guaranteed for other paper.
When printing on cut sheet prepare paper that is 74 mm wide and 210 mm long. You can print on A4 or letter paper that has been cut to a quarter of its long side.
Print after setting Menus > Feeder Config > Paper Form > Cut Paper (see paragraph 7.1).
When printing on roll paper prepare without a mark that is 74 mm to 86 mm wide.
Print after setting Menus > Feeder Config > Paper Form > Continuous Paper and Menus > Feeder Config > Cut Type > Length (see paragraph 7.1).

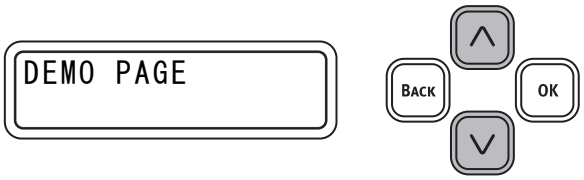
Proceed as follows:

- Confirm that “Ready to print” is displayed on the device.

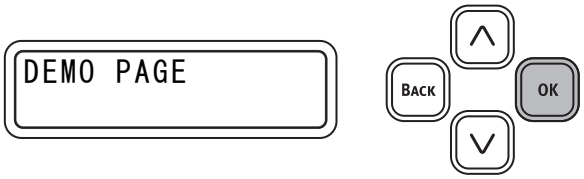


- Load the paper (see paragraph 5.10).

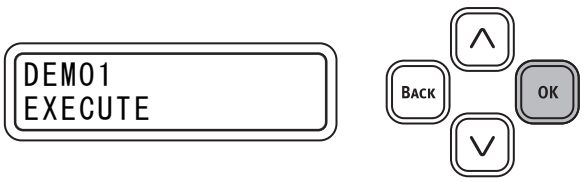
- Press ∧ or ∨ to display “Demo page”.



- Press OK.



- Press OK when “Demo1 / Execute” is displayed.

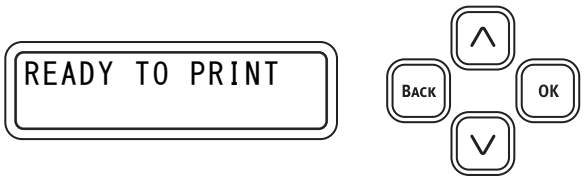


6.5 Printing and checking a report

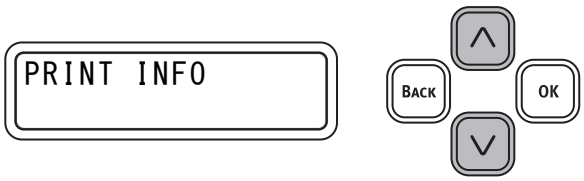
To print and check the value set in the device, use cut sheet or roll paper without a mark. The operation is not guaranteed for other paper.
When printing on cut sheet prepare paper that is 74 mm wide and 210 mm long. You can print on A4 or letter paper that has been cut to a quarter of its long side.
Print after setting Menus > Feeder Config > Paper Form > Cut Paper (see paragraph 7.1).
When printing on roll paper prepare without a mark that is 74 mm to 86 mm wide.
Print after setting Menus > Feeder Config > Paper Form > Continuous Paper and Menus > Feeder Config > Cut Type > Length (see paragraph 7.1).

Proceed as follows:

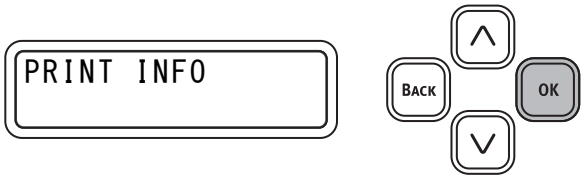
- Confirm that “Ready to print” is displayed on the device.



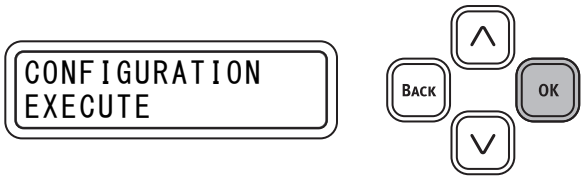
- Press ∧ or ∨ to display “Print info”.



- Press OK.



- Press OK when “Configuration / Execute” is displayed.



- Load the paper displayed on the screen in the device.

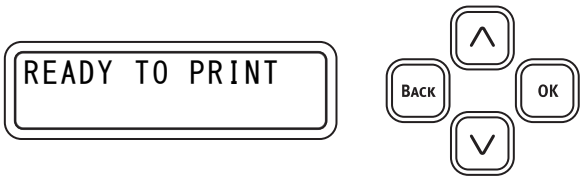
- Press OK.

6.6 Checking the operation panel

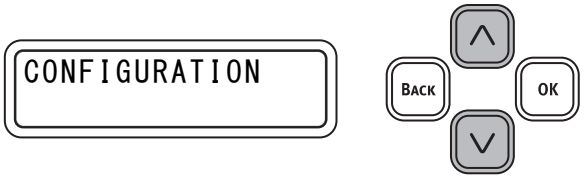
You can check the print count, remaining consumables, network settings, and device information on the operation panel.

Proceed as follows:

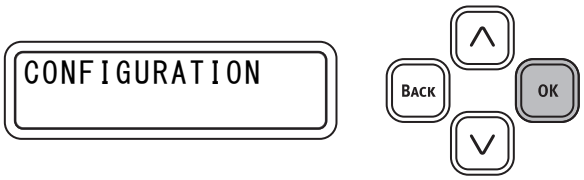
- Confirm that “Ready to print” is displayed on the device.



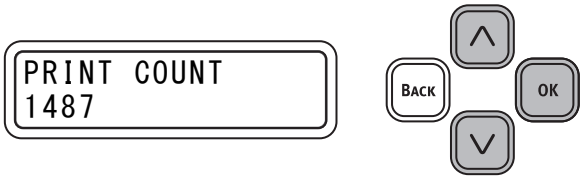
- Press ∧ or ∨ to display “Configuration”.



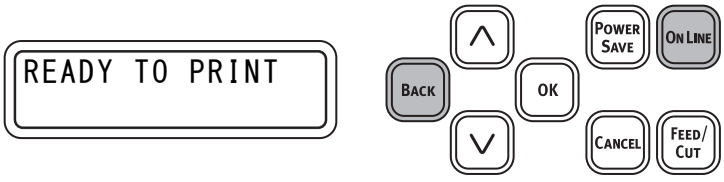
- Press OK to display the print count.



- To also check the remaining consumables, network settings, or device information, press ∧ or ∨ to display the item you want to check, and press OK.



- Press ∧ or ∨ to check each value.
- When you have finished checking, press ONLINE, or press BACK until “Ready to print” is displayed.



6.7 Feeding the paper

Feeding is performed for the paper set in the device according to the device settings.

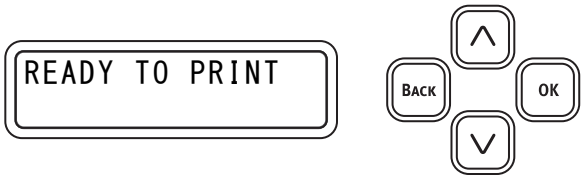
Execute feeding in the following cases:
- when paper is set in the device again because it had run out, etc.
- when paper was cut at the appropriate position because of a paper jam, etc.
- when the cut position setting is changed.

Printing may not be able to be performed correctly unless feeding is performed.

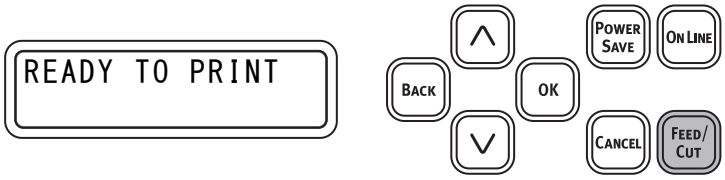
To feed paper, proceed as follows:

- Confirm that paper is loaded in the device (see paragraph 5.10).

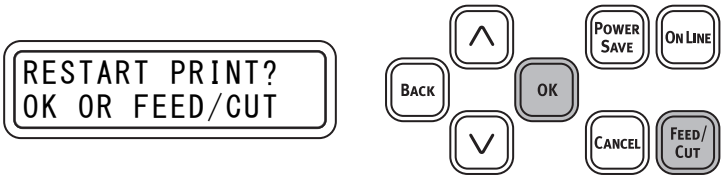
- Confirm that “Ready to print” is displayed on the device.



- Press FEED/CUT.



When a paper jam (see chapter 10) occurs during printing, the paper may be removed from the device in order to clear the paper jam.
When paper is set in the device again after clearing a paper jam, a screen similar to the following is displayed.
Press FEED/CUT while this screen is displayed to execute paper feeding.

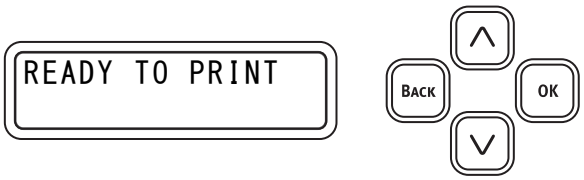


6.8 Sensor calibration

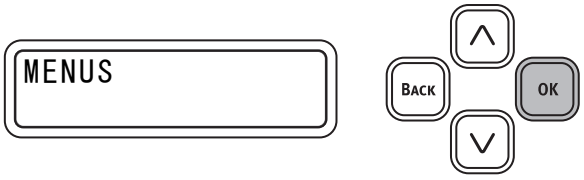
If paper jams or paper mark detection errors occur frequently, follow the procedure below to perform sensor calibration.

Proceed as follows:

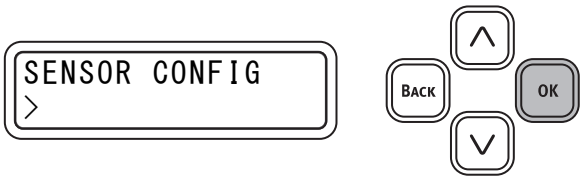
- Confirm that “Ready to print” is displayed on the device.



- Press ∧ or ∨ several times to display “Menus” and press OK.

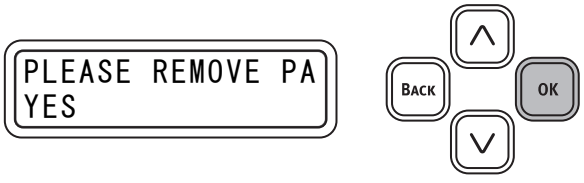


- Press ∧ or ∨ several times to display “Sensor config” and press OK.



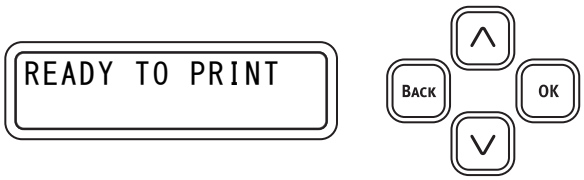
- Press OK when “Sensor calibration / Execute calibration” is displayed.

- When “Please remove paper” is displayed, remove paper from the device and press OK.



- Load the paper in the device when “Please load paper” is displayed.

- The procedure is complete when “Ready to print” is displayed.



7 CONFIGURATION BY KEYS

7.1 Menu List

The device allows the configuration of the parameters listed in the following table.
The parameters marked with the symbol [D] are the default values.

DEMO PAGE	
DEMO 1	Prints a demonstration page.
CONFIGURATION	
PRINT COUNT	Displays the print count: nnnnn
SUPPLIES LIFE	
DRUM UNIT LIFE	Displays the remaining life of the image drum unit: REMAINING nnn%
BELT LIFE	Displays the remaining life of the transfer belt: REMAINING nnn%
FUSER LIFE	Displays the remaining life of the fuser unit: REMAINING nnn%
TONER (n.nK)	Displays the remaining life of the toner cartridge: REMAINING nnn%
NETWORK	
PRINTER NAME	Displays the device name: **********
SHORT NAME	Displays the short name: **********
IPV4 ADDRESS	Displays the IPv4 address: xxx.xxx.xxx.xxx

SUBNET MASK	Displays the subnet mask: xxx.xxx.xxx.xxx
GATEWAY ADDRESS	Displays the gateway address: xxx.xxx.xxx.xxx
MAC ADDRESS	Displays the MAC address: xxx.xxx.xxx.xxx
NETWORK VERSION	Displays the version of the network firmware of the device: xx.xx
WEB VERSION	Displays the version of the web page of the device: xx.xx
IPV6 LOCAL	Displays the IPv6 address: xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx
IPV6 STATELESS	Displays the IPv6 address (stateless): xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx
IPV6 STATEFUL	Displays the IPv6 address (stateful): xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx
SYSTEM	
SERIAL NUMBER	Displays the serial number of the printer: xxxxxxxxxxxxxxxxxxxxxxxxx
ASSET NUMBER	Displays the asset number of the printer: xxxxxxxxxxxxxxxxxxxxxxxxx
LOT NUMBER	Displays the lot number of the device: xxxxxxxxxxxxxxxxxxxxxxxxx
FW VERSION	Displays the firmware version: xxx.xx_x_x

CU VERSION	Displays the firmware version of the control unit: xx.xx
PU VERSION	Displays the firmware version of the print unit: xx.xx.xx
RAM	Displays the size of the RAM in the device: xxMB
FLASH MEMORY	Displays the size of the flash memory in the device: xxMB [Fxx]
PRINT INFO	
CONFIGURATION	Prints information about the printer configuration.
PRINT FILE LIST	Prints a file list.
PRINT ERROR LOG	Prints an error log.
MENUS	
FEEDER CONFIG	
PAPER FORM	Sets the paper format: CONTINUOUS PAPER [D] PAPER CUT
X DIMENSION	Sets the paper width: from 25 mm to 86 mm (74.0 mm [D)]
Y DIMENSION	Sets the paper length: from 53 mm to 551 mm (210.0 mm [D)]
MEDIATYPE	Sets the paper type: PLAIN [D] USERTYPE1 (*) USERTYPE2 (*) USERTYPE3 (*) USERTYPE4 (*) USERTYPE5 (*)
	NOTE: (*) USERTYPE1 to 5 are displayed if they are registered.

MEDIAWEIGHT	Sets the paper weight: LIGHT MEDIUM LIGHT MEDIUM [D] MEDIUM HEAVY HEAVY ULTRA HEAVY1 ULTRA HEAVY2
CUT TYPE	Sets the type of mark used for cutting the paper: B/M(FRONT) B/M(BACK) SIDE HOLE CENTER HOLE [D] NOTCH GAP LENGTH
GAP LENGTH	It is not necessary to change this when printing on plain paper: from 3 mm to 13 mm (3.0 mm [D)]
CUT POSITION SET	Sets the position to cut paper with a black mark or with a hole: from -6.5 mm to 6.5 mm (0.0 mm [D)]
SENSOR CONFIG	
SENSOR CALIBRATION	Adjust the paper sensors.
SYSTEM ADJUST	
POW SAVE TIME	Sets the time, expressed in minutes, until the device enters the Power Save mode: 0 1 2 3 4 5 10 15 30 60 [D]
SLEEP TIME	Sets the time, expressed in minutes, until the device enters the Sleep mode from the Power Save mode: 0 1 2 3 4 5 10 15 30 60 [D]
AUTO PW OFF TIME	Sets the time, expressed in hours, until the power is automatically turned off: 1 [D] 2 3 4 8 12 18 24
CLRABLE WARNING	Sets the timing for erasing warning errors that the device can recover from: OK BUTTON JOB END [D]

AUTO CONTINUE	Sets the whether to automatically recover the printer when a memory overflow is displayed. The waiting time until recovery is 15 seconds: ON OFF [D]
MANUAL TIMEOUT	Sets the time until paper is loaded. Printing cannot be performed unless paper is loaded within this time: OFF 30 SEC 60 SEC [D]
TIMEOUT INJOB	Sets the time, expressed in seconds, until forced printing is performed when print data stops being received: OFF 5 10 20 30 40 [D] 50 60 90 120 150 180 210 240 270 300
TIMEOUT LOCAL	Sets the time, expressed in seconds, that the ports are left open when an operation finishes (excluding the network ports): from 0 s to 300 s (40 s [D)]
TIMEOUT NET	Sets the time, expressed in seconds, that the network ports are left open when an operation finishes: from 0 s to 300 s (90 s [D)]
JAM RECOVERY	Sets whether to print the page where a paper jam occured again. When this is set to OFF, the remaining pages are not printed, including the page where the paper jam occurred: ON [D] OFF
ERROR REPORT	Sets whether to print an error report when an error occurs in the printer: ON [D] OFF
HEX DUMP	Prints the received data in the hexadecimal dump format. When the power of the printer is turned off, the printer returns to the regular print mode.
PRINT ADJUST	
POSITION ADJUST	
X ADJUST	Corrects the position of the entire print image in the direction perpendicular to the feed direction of the paper. Set in increments of 0.25 mm: from -2.00 mm to 2.00 mm (0.0 mm [D)]

Y ADJUST	Corrects the position of the entire print image in the feed direction of the paper. Set in increments of 0.25 mm: from -2.00 mm to 2.00 mm (0.0 mm [D])
PAPER COLOR SET	Performs fine adjustment when faint white dots or other visual problems occur in the print results. Lower the setting when there are faint white dots occur and raise the setting when high density areas become lighter: 0 +1 +2 -2 [D] -1
SMR SETTING	
YELLOW	Corrects uneven printing due to differences in the print density/print frequency or temperature/humidity. Change the yellow setting when the image is uneven: 0 [D] +1 +2 +3 -3 -2 -1
MAGENTA	Corrects uneven printing due to differences in the print density/print frequency or temperature/humidity. Change the magenta setting when the image is uneven: 0 [D] +1 +2 +3 -3 -2 -1
CYAN	Corrects uneven printing due to differences in the print density/print frequency or temperature/humidity. Change the cyan setting when the image is uneven: 0 [D] +1 +2 +3 -3 -2 -1
BG SETTING	Corrects uneven printing due to differences in the print density/print frequency or temperature/humidity. Change this value when the background is dense: 0 [D] +1 +2 +3 -3 -2 -1
DRUM CLEANING	Set ON to reduce white horizontal streaks that appear in the print results. The lifetime of the image drum is shorter when this is set to ON: ON OFF [D]
HIGH HUM. MODE	Set ON when the printed paper curls greatly: ON [D] OFF
NARROW PAPER SPEED	Sets the print speed of narrow paper: NORMAL [D] = the print speed is not switched when printing on narrow paper. If temperature adjustment occurs, the device operates at low speed until printing stops. MODE1 = The print speed is switched to low speed when printing on narrow paper.

ADMIN SETUP	
PASSWORD	Enter the password for the administrator menu. The default password is 999999. ******
NETWORK SETUP	
WIRED	Sets whether to enable or disable wired LAN: ENABLE [D] DISABLE
TCP/IP	Sets whether to enable or disable the TCP/IP protocol: ENABLE [D] DISABLE
NETBIOS OVER TCP	Sets whether to enable or disable the TCP/IP protocol: ENABLE [D] DISABLE
IP ADDRESS SET	Sets the method for setting the IP address: AUTO [D] MANUAL
IPV4 ADDRESS	Sets the IP address: With a cable attached = 169.254.XXX.XXX Without a cable attached = 192.168.100.100
SUBNET MASK	Sets the subnet mask: xxx.xxx.xxx.xxx
GATEWAY ADDRESS	Sets the gateway address (default gateway): xxx.xxx.xxx.xxx 0.0.0.0 means that there is no router.
DHCPV6	Sets whether to enable or disable DHCPv6: ENABLE DISABLE [D]
WEB	Sets whether to enable or disable WEB: ENABLE [D] DISABLE

TELNET	Sets whether to enable or disable TELNET: ENABLE DISABLE [D]
FTP	Sets whether to enable or disable FTP: ENABLE DISABLE [D]
IPSEC	Disables IPSec.
SNMP	Sets whether to enable or disable SNMP: ENABLE [D] DISABLE
NETWORK SCALE	NORMAL [D] = operates efficiently even when connected to a hub with the spanning tree function. However, the printer startup time may become longer when connected to a small LAN with two or three computers. SMALL = supports a small LAN with two or three computers up to a large LAN. May not operate efficiently when connected to a hub with the spanning tree function.
HUB LINK SETTING	Sets the metod for connecting to hubs: AUTO [D] = automatically selects a connection method and tries connecting to all hubs. 100BASE-TX FULL 100BASE-TX HALF 10BASE-T FULL 10BASE-T HALF
FACTORY DEFAULTS	Restore the default network settings.
USB SETUP	
USB	Sets whether to enable or disable the USB interface: ENABLE [D] DISABLE
SPEED	Sets the maximum transfer speed for the USB interface: 480 Mbps [D] 12 Mbps
SOFT RESET	Sets whether to enable or disable the Soft Reset command: ENABLE DISABLE [D]

SERIAL NUMBER	Sets whether to enable or disable the USB serial number. The USB serial number is used to identify USB devices connected to a computer: ENABLE [D] DISABLE
CONNECTED HOST	NORMAL [D] SPECIFIC = enables printing from a specific computer connected via USB.
PRINT SETUP	
COPIES	Sets the number of copies. The number of copies setting is disabled when printing information related to the device: from 1 to 999 (1 [D)]
MEDIA CHECK	Sets whether to check whether the paper size of the print data matches the paper size set in the device: ENABLE = detects a paper size error when the paper length is 17.5 mm or more shorter than the actual paper. DISABLE [D] = does not detect a paper size error.
EDGE TO EDGE	Sets whether to expand the print area: ON [D] = sets the margin (unprintable area) to approximately 2 mm. OFF = sets the margin to approximately 4.2 mm.
RESOLUTION	Sets the resolution for printing: 600 dpi [D] 1200 dpi
TONER SAVE	Sets the amount of toner to save. When set to OFF, toner is not saved: OFF [D] LOW MIDDLE HIGH
ORIENTATION	Sets the print orientation: PORTRAIT [D] LANDSCAPE
EDIT SIZE	Sets the area to print when the paper size is not specified in the print data: FEEDER SIZE = uses the value set in Menus > Feeder Config > X Dimension / Y Dimension. CUSTOM [D] = uses the value set in the following X Dimension / Y Dimension.

X DIMENSION	Sets the default paper width for custom paper. The paper width is the length perpendicular to the paper feed direction: from 25 mm to 86 mm (50.0 mm [D)]
Y DIMENSION	Sets the default paper width for custom paper. The paper length is the length in the same direction as the paper feed direction: from 53 mm to 551 mm (53.0 mm [D)]
BARCODE ADJUST	Adjusts the line width of barcodes: OFF [D] ON1 = makes barcodes one dot thinner than the standard line width. ON2 = makes barcodes two dots thinner than the standard line width.
PRESENTER MODE	Configures paper output: OFF = outputs paper with the regular output method. MODE1 = retains the paper with the Presenter Unit and prints the next page when the paper is pulled out. MODE2 = retains the paper with the Presenter Unit and prints the next page when print data exists. This parameter is displayed when “Presenter unit” is set to “Enable”.
COLOR MENU	
CMY100% DENSITY	Selects whether to use halftones when outputting in 100% C, M or Y: ENABLE [D] DISABLE
PCL SETUP	
FONT SOURCE	Sets the location of the PCL fonts: RESIDENT [D] DOWNLOADED DOWNLOADED is displayed when software fonts have been downloaded to RAM permanently.
FONT NO.	Sets the PCL font number: from I0 to I30 (I30 [D], see paragraph 13.3)
FONT PITCH	Sets the width of the PCL default font. Set in characters per inch (fixed pitch scalable font by default): from 0.44 cpi to 99.99 cpi

FONT HEIGHT	Sets the height of the PCL default font. The value is displayed in increments of 0.25 point: from 4.00 point to 999.75 point
SYMBOL SET	Sets the PCL symbol set
WHITE PAGE SKIP	Selects whether to print blank pages: ON = do not print blank pages OFF [D] =print blank pages
CR FUNCTION	Sets the operation to take when a CR code is received: CR [D] = return CR+LF = return and line feed
LF FUNCTION	Sets the operation to take when an LF code is received: LF [D] = line feed LF+CR = line feed and return
PRINT MARGIN	Sets the unprintable area of the paper: NORMAL [D] 1/5 INCH 1/6 INCH 1/12.5 INCH
PEN WIDTH ADJUST	Sets whether to enhance thin lines so they look thicker: ON [D] OFF
PANEL SETUP	
NEARLIFE STATUS	Sets whether to display a message when a near life warning has occurred: ENABLE [D] = display a near life warning. DISABLE = do not display a near life warning.
NEARLIFE LED	Sets whether to light up the LED when a near life warning has occurred: ENABLE [D] = light up the LED. DISABLE = do not light up the LED. For the image drum, lights up when “Panel setup” > “Nearlife status” is set to “Enable”.

BUZZER SETUP

ERROR VOLUME

Sets the buzzer volume when an error has occurred in the device:

OFF [D]
LOW
HIGH

PRINT COMPLETION VOLUME

Sets the buzzer volume when printing is completed:

OFF [D]
LOW
HIGH

PRINT COMPLETION BUZZER

Sets the timing for sounding the buzzer when printing is completed:

PAGE END
JOB END [D]

This item is displayed when “Print completion volume” is set to “Low” or “High”.

POWER SETUP

AUTO PW OFF

Set the Auto Power Off operation:

ENABLE =	the device enters the Auto Power Off mode even when connected via a LAN cable.
AUTO CONFIG =	the device does not enter the Auto Power Off mode when connected via a LAN cable. The device enters the OFF mode when connected via USB.
DISABLE [D] =	the power does not automatically turn off.

FEEDER SETUP

UNIT OF MEASURE

Specifies the unit for custom paper sizes:

INCH
MILLIMETER [D]

OTHERS SETUP

RAM SETUP

RECEIVE BUF SIZE

Sets the reception buffer size, expressed in MB, to secure for the local interface. Normally, “Auto” is used. When memory overflow errors occur, lowering this setting may improve the problem. The setting can also be raised to shorten the release time on the computer side:

AUTO [D]	0.5	1	2
4	8	16	32

FLASH SETUP	
FLASH INITIALIZE	Initializes the flash memory. The downloaded demo data, etc. displayed in the file list is deleted.
STORAGE SETUP	
ENABLE INITIAL	Prevents setting changes resulting from initialization of the flash memory: NO [D] YES
LANGUAGE SETUP	
LANGUAGE SELECT	Selects the language displayed on the LCD. However, device information such as reports is printed in English. CATALAN CZECH DANISH DUTCH ENGLISH [D] FINNISH FRENCH GERMAN HUNGARIAN ITALIAN JAPANESE NORWEGIAN POLISH PORTUGUESE PORTUGUESE (BRAZIL) SPANISH SWEDISH TURKISH
LANGUAGE INITIALIZE	Initializes the downloaded user language message file.
JOB CANCEL SETUP	
CANCEL KEY BEHAVIOR	Sets the operation performed when the job cancel button is pressed: SHORT [D] = execute job cancellation with a short press (2 seconds or less). LONG = execute job cancellation with a long press (2 to 5 seconds). OFF = ignore presses of the job cancel button. In other words, disable job cancellation by pressing the job cancel button.
INQUIRY DISPLAY	Sets whether to display the query screen when job cancellation is executed: ON [D] = display the query screen. OFF = execute job cancellation without displaying the query screen.

FOCUS POSITION	Sets whether to place the focus on “Yes” or “No” on the query screen for job cancellation: YES [D] =place the focus on “Yes”. NO = place the focus on “No”.
DISPLAY TIMEOUT	Sets the timeout value for the query screen when job cancellation is executed. When a timeout occurs, printing is executed with the cancellation operation disabled: 60 120 180 [D] 240 300
NEARLIFE SETUP	
DRUM NEARLIFE	Sets the timing for displaying the near life warning for the image drum unit. Displays the near life warning for the image drum unit in front of the selected value for the image drum unit lifetime: 500 1000 1500 2000 2500 [D] 3000 3500 4000 4500 5000
FUSER NEARLIFE	Sets the timing for displaying the near life warning for the fuser. Displays the near life warning for the fuser in front of the selected value for the fuser lifetime: 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 [D]
BELT NEARLIFE	Sets the timing for displaying the near life warning for the transfer belt. Displays the near life warning for the transfer belt in front of the selected value for the transfer belt lifetime: 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 [D]
ERASE PRIVACY DATA	The following data set in the device is erased: - Administrator password, values set for menus - Data registered in the device
PRESENTER UNIT	Sets whether to enable or disable the Presenter Unit: ENABLE = attached DISABLE [D] = not attached Match this setting with the status of the Presenter Unit. Paper jams will occur if the setting does not match.
SETTINGS	
MENU RESET	Restores the default menu settings of the device.
SAVE MENU	Saves the current menu settings. The menu is overwritten with that saved at the time of last execution.

RESTORE MENU	Changes the menu to the saved menu settings. This item is displayed when “Save menu” has been executed to save the menu settings. Disabled when executed when the device has print data.
CHANGE PASSWORD	
NEW PASSWORD	Sets the new password for entering “Admin setup” and “Boot menu”. The password is set using 6 to 12 numbers or lower case letters. **********
VERIFY PASSWORD	Enter the new password set in “New password” again for confirmation purposes. The password is set using 6 to 12 numbers or lower case letters. **********
CALIBRATION	
DENSITY CONTROL	Sets whether to automatically perform density correction: FULL = automatically perform density correction QUICK [D] = automatically perform density correct when the printer deems it necessary MANUAL = do not automatically perform density correction
ADJUST DENSITY	Executes density correction. Execute it when the device is in standby.
COLOR TUNING	Prints a color tuning pattern.
CYAN TUNING	
CYAN HIGHLIGHT	Adjusts the cyan highlights (light areas). Positive values are darker and negative values are lighter: 0 +1 +2 +3 [D] -3 -2 -1
CYAN MID-TONE	Adjusts the cyan intermediate areas. Positive values are darker and negative values are lighter: 0 +1 +2 +3 [D] -3 -2 -1
CYAN DARK	Adjusts the cyan dark areas. Positive values are darker and negative values are lighter: 0 +1 +2 +3 [D] -3 -2 -1

MAGENTA TUNING

MAGENTA HIGHLIGHT Adjusts the magenta highlights (light areas). Positive values are darker and negative values are lighter:

0 +1 +2 +3 [D]
-3 -2 -1

MAGENTA MID-TONE Adjusts the magenta intermediate areas. Positive values are darker and negative values are lighter:

0 +1 +2 +3 [D]
-3 -2 -1

MAGENTA DARK Adjusts the magenta dark areas. Positive values are darker and negative values are lighter:

0 +1 +2 +3 [D]
-3 -2 -1

YELLOW TUNING

YELLOW HIGHLIGHT Adjusts the yellow highlights (light areas). Positive values are darker and negative values are lighter:

0 +1 +2 +3 [D]
-3 -2 -1

YELLOW MID-TONE Adjusts the yellow intermediate areas. Positive values are darker and negative values are lighter:

0 +1 +2 +3 [D]
-3 -2 -1

YELLOW DARK Adjusts the yellow dark areas. Positive values are darker and negative values are lighter:

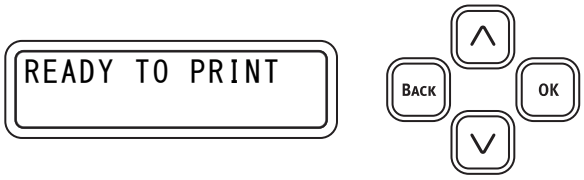
0 +1 +2 +3 [D]
-3 -2 -1

COLOR DENSITY	
CYAN DENSITY	Adjusts the cyan density. Positive values are darker and negative values are lighter. This setting is enabled when printing after density correction is executed: 0 +1 +2 +3 [D] -3 -2 -1
MAGENTA DENSITY	Adjusts the magenta density. Positive values are darker and negative values are lighter. This setting is enabled when printing after density correction is executed: 0 +1 +2 +3 [D] -3 -2 -1
YELLOW DENSITY	Adjusts the yellow density. Positive values are darker and negative values are lighter. This setting is enabled when printing after density correction is executed: 0 +1 +2 +3 [D] -3 -2 -1
ADJUST REGISTRATION	When this menu is selected, the device executes automatic color shift correction. Execute this when device is idle.

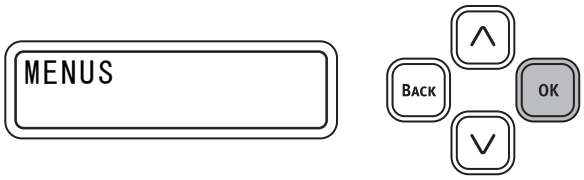
7.2 Registering paper information

To register the information for the paper to use to the device, proceed as follows:

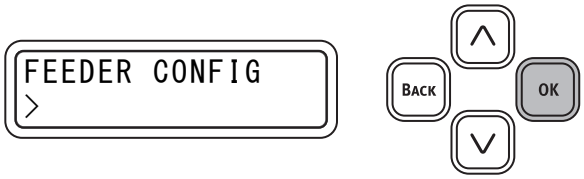
- Confirm that “Ready to print” is displayed on the device.



- Press ∧ or ∨ several times to display “Menus” and press OK.

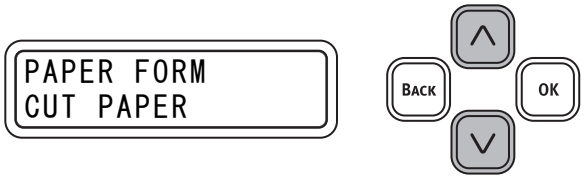


- Press ∧ or ∨ several times to display “Feeder config” and press OK.

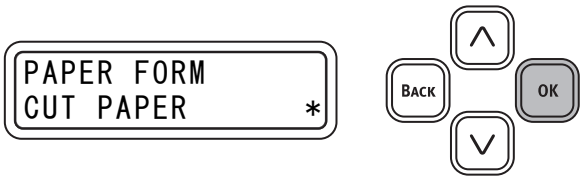


- Press ∧ or ∨ several times to display “Paper form” and press OK.

- With the setting flashing, press ∧ or ∨ to display the value you want to set.
  For roll paper or continuous paper folded along a perforation, set “Continuous paper”.
  For paper cut into rectangles, set “Cut paper”.

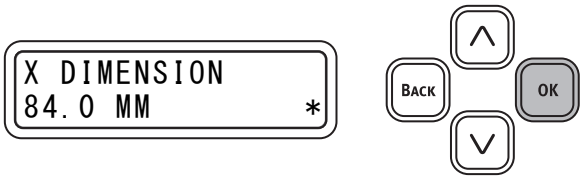


- Press OK.

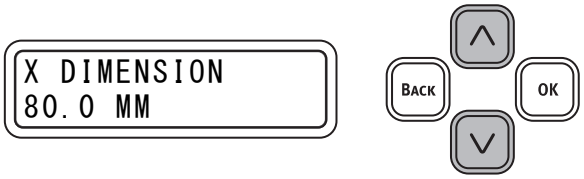


- Confirm that “*” is displayed to the right of the value you want to set.

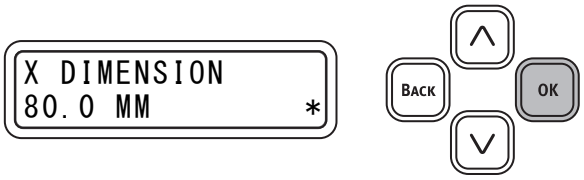
- Press ∨ once to display “X Dimension” and press OK.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.
  You can set 25.0 mm to 86.0 mm (1.00 inches to 3.40 inches) for the width.

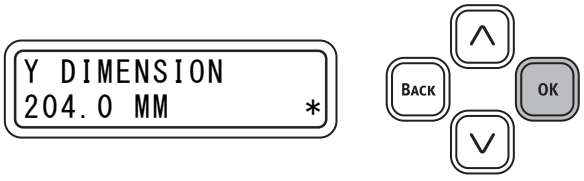


- Press OK.

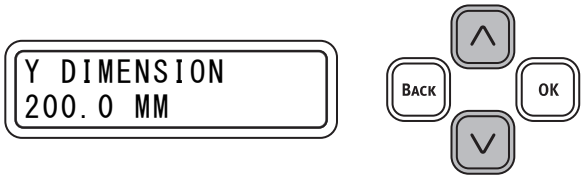


- Confirm that “*” is displayed to the right of the value you want to set.

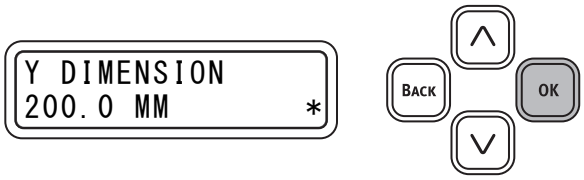
- Press ∨ once to display “Y Dimension” and press OK.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.
  You can set 3.0 mm to 551 mm (2.10 inches to 21.70 inches) for the length.

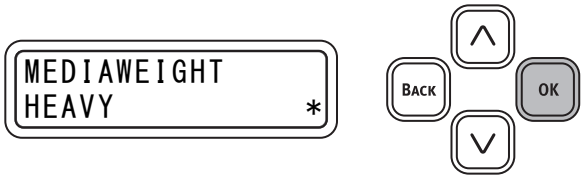


- Press OK.

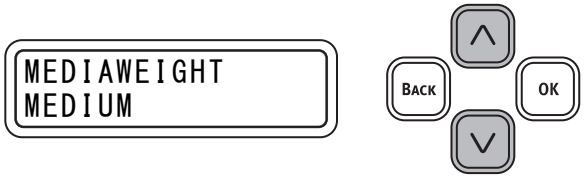


- Confirm that "*" is displayed to the right of the value you want to set.

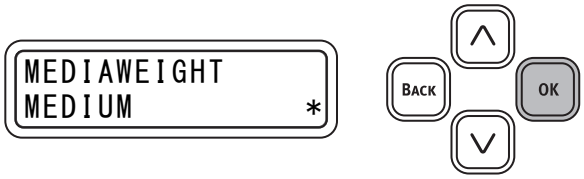
- Press ∨ twice to display "Mediaweight" and press OK.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.
  Set the weight of the paper to use. You can set LIGHT, MEDIUM LIGHT, MEDIUM, MEDIUM HEAVY, HEAVY, ULTRA HEAVY1, ULTRA HEAVY2.

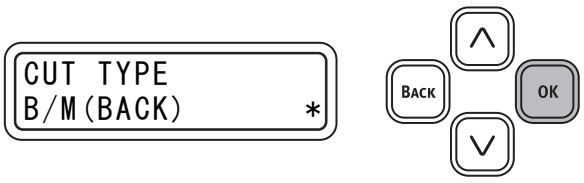


- Press OK.

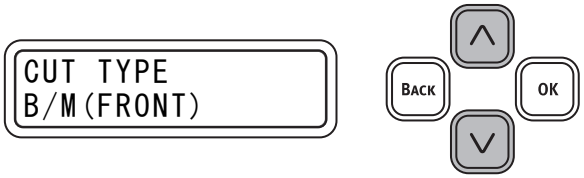


- Confirm that "*" is displayed to the right of the value you want to set.

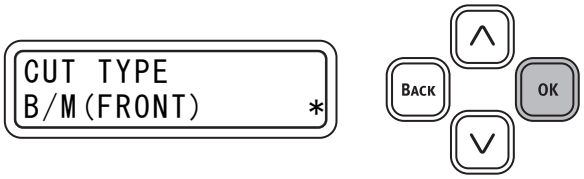
- Press ∨ once to display “Cut type” and press OK.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.
  Set the type of mark used for cutting the paper. Set it according to the paper to use.
  When the paper has a black mark on the surface that is printed on: B/M(FRONT)
  When the paper has a black mark on the surface that is not printed on: B/M(BACK)
  For paper with a hole in the center: CENTER HOLE
  For paper without a hole in the center: SIDE HOLE
  For paper without a mark: LENGTH



- Press OK.



- Confirm that “*” is displayed to the right of the value you want to set.

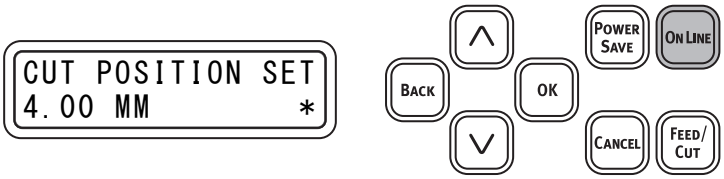
- Press ∨ twice to display “Cut position set” and press OK.

- With the setting flashing, press ∧ or ∨ to display the value you want to set.
  This setting specifies the cut position of paper with a black mark or hole. When set to 0 mm, the paper is cut at the center of the black mark or hole. Generally, set 0 mm when using paper with hole.
  The values that can be set are:
  Paper with a black mark: -6.5 mm (-0.25 inches) to the paper length
  Paper with a hole: -6.5 mm to 6.5 mm (-0.25 inches to 0.25 inches)

- Press OK.

- Confirm that "*" is displayed to the right of the value you want to set.

- Press ONLINE to return to the "Ready to print" standby status.



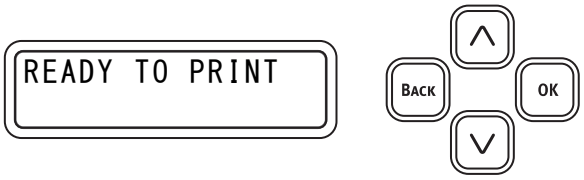
7.3 Setting the power save mode transition time

The device enters the Power Save mode when it has not been used for a certain period of time. 0 minutes is set by default.

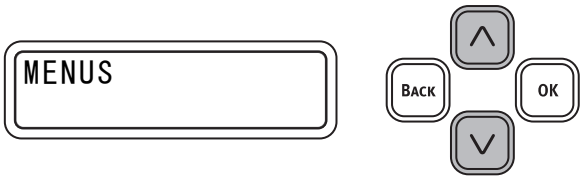
When paper is jammed into the presenter unit, the device does not enter the Power Save mode.

Proceed as follows:

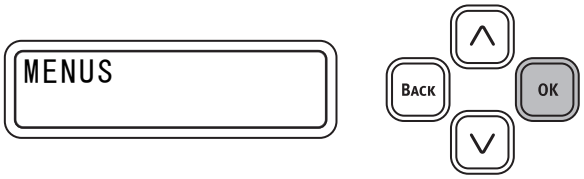
- Confirm that “Ready to print” is displayed on the device.



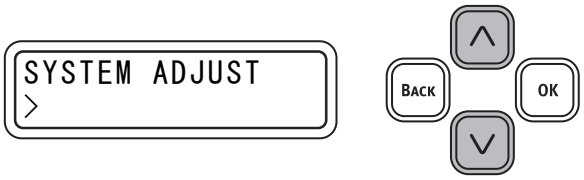
- Press ∧ or ∨ several times to display “Menus”.



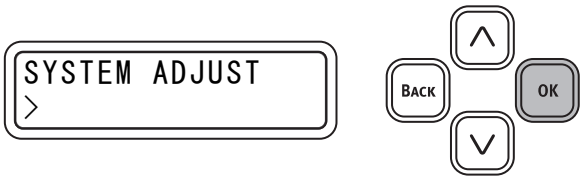
- Press OK.



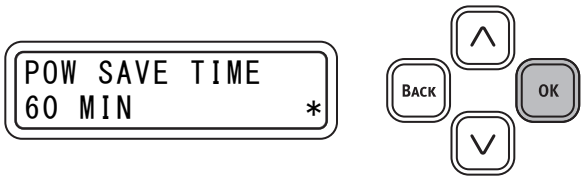
- Press ∧ or ∨ several times to display “System adjust”.



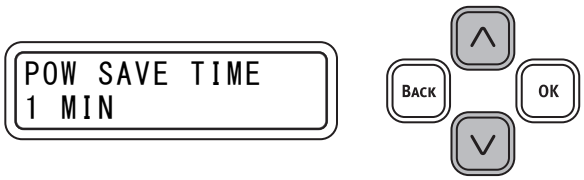
- Press OK.



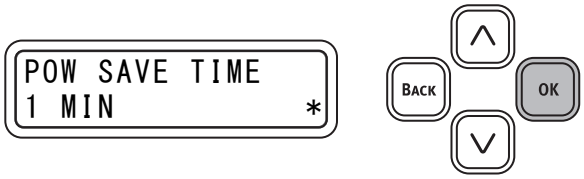
- Press OK when “Pow save time” is displayed.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.

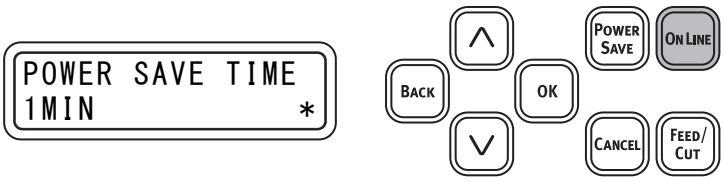


- Press OK.



- Confirm that “*” is displayed to the right of the value you want to set.

- Press ONLINE to return to the “Ready to print” standby status.



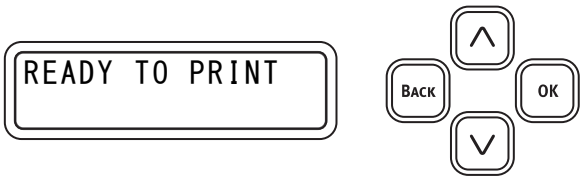
7.4 Setting the sleep mode transition time

If the device is not used for a certain period of time after it enter the Power Save mode, the device enters the Sleep Mode. 15 minutes is set to default.

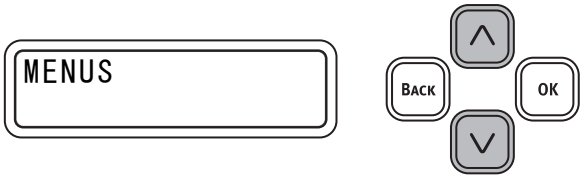
When an error has occurred in the device, it does not enter the Sleep Mode.

Proceed as follows:

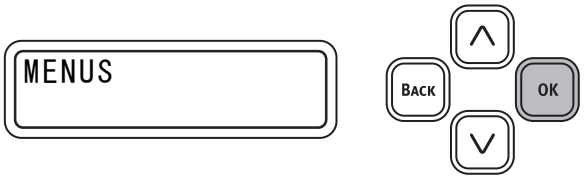
- Confirm that “Ready to print” is displayed on the device.



- Press ∧ or ∨ several times to display “Menus”.

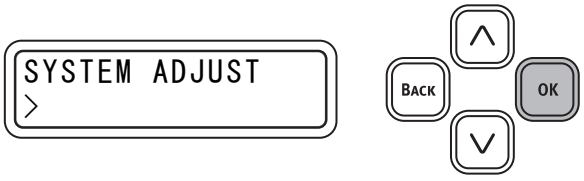


- Press OK.

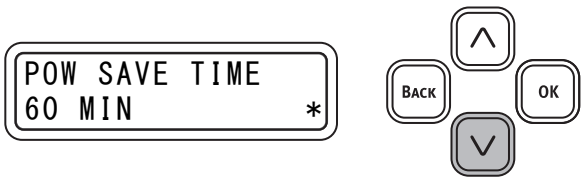


- Press ∧ or ∨ several times to display “System adjust”.

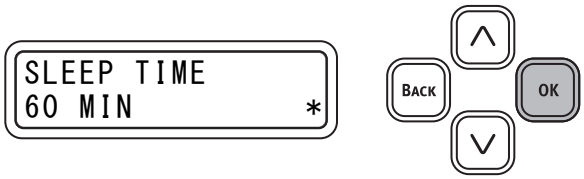
- Press OK.



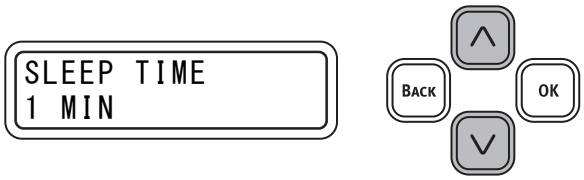
- When “Pow save time” is displayed, press ∨ once to display “Sleep time”:



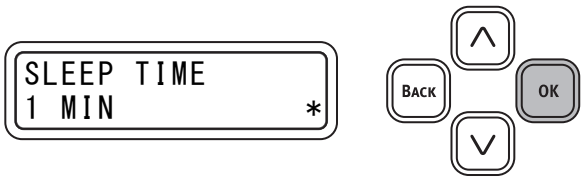
- Press OK when “Sleep time” is displayed.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.

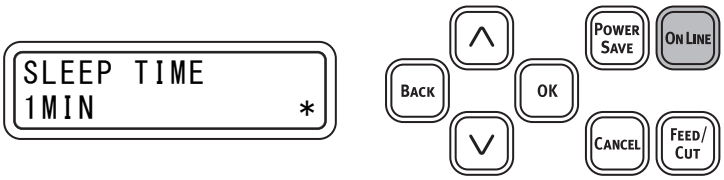


- Press OK.



- Confirm that “*” is displayed to the right of the value you want to set.

- Press ONLINE to return to the “Ready to print” standby status.

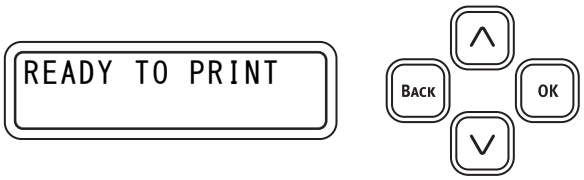


7.5 Setting the auto power off time

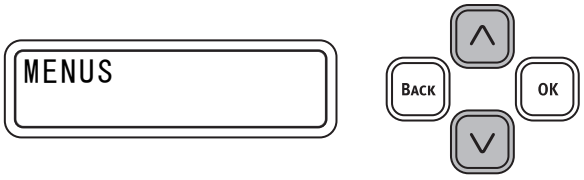
If the device is not used for a certain period of time, it automatically turns off. 4 hours is set by default.

Proceed as follows:

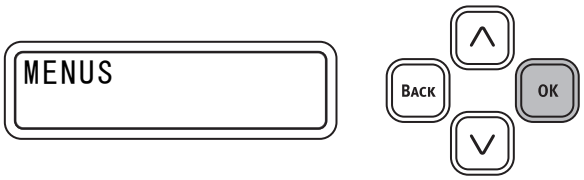
- Confirm that “Ready to print” is displayed on the device.



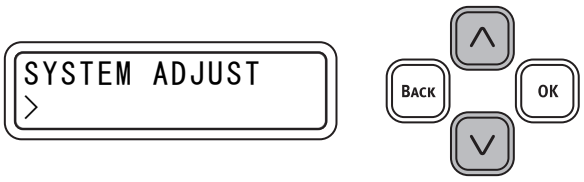
- Press ∧ or ∨ several times to display “Menus”.



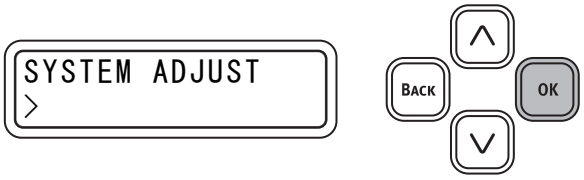
- Press OK.



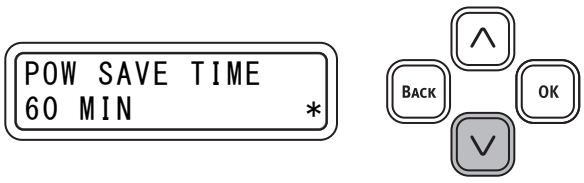
- Press ∧ or ∨ several times to display “System adjust”.



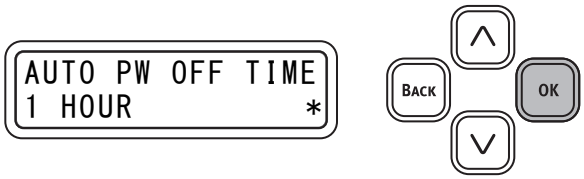
- Press OK.



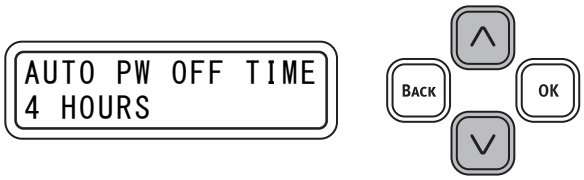
- When “Pow save time” is displayed, press ∨ once to display “Auto pw off time”:



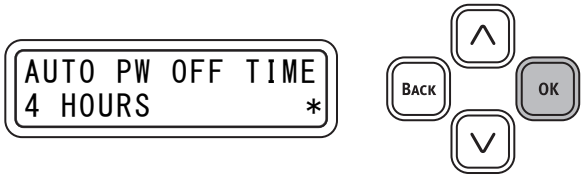
- Press OK when “Auto pw off time” is displayed.



- With the setting flashing, press ∧ or ∨ to display the value you want to set.

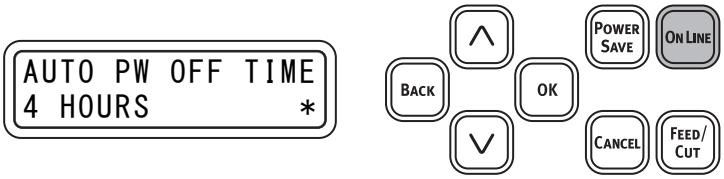


- Press OK.



- Confirm that “*” is displayed to the right of the value you want to set.

- Press ONLINE to return to the “Ready to print” standby status.

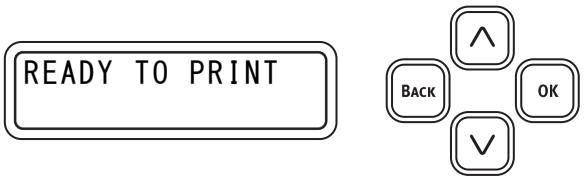


7.6 Initializing the flash memory

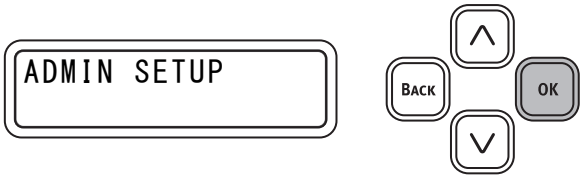
When you initialize the flash memory the following data is deleted:
- form data
- download demo print data
- saved menu settings

To initialize the flash memory, proceed as follows:

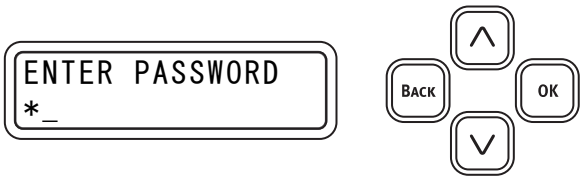
- Confirm that “Ready to print” is displayed on the device.



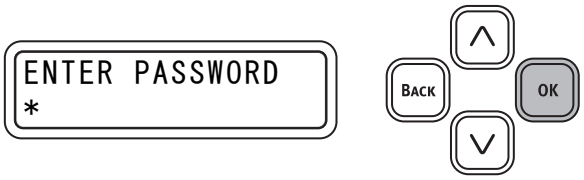
- Press ∧ or ∨ several times to display “Admin setup” and press OK.



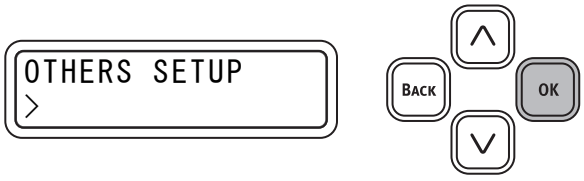
- When “Enter password” is displayed, enter the password (paragraph 6.3):



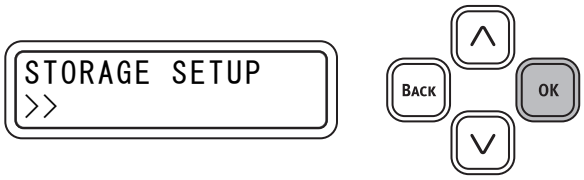
- When the password has been entered, press OK:



- Press ∧ or ∨ several times to display “Others setup”, and press OK.



- Press ∧ or ∨ several times to display “Storage setup”, and press OK.

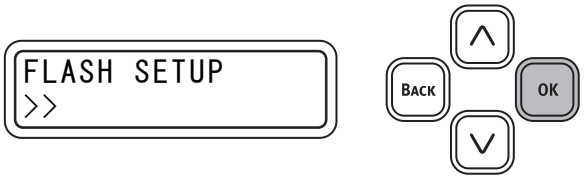


- “Enable initial” is displayed. Press OK.

- Press ∨ to display “Yes” on the bottom, and press OK (the flashing stops and “YES *” is displayed).

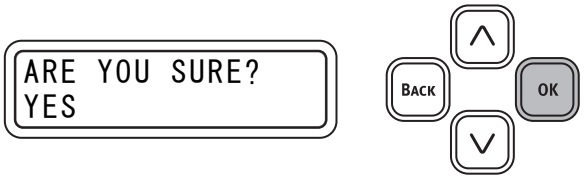
- Press BACK once to display “Storage setup”.

- Press ∧ once to display “Flash setup”, and press OK.



- Press OK when “Flash initialize / Execute” is displayed.

- When the confirmation message is displayed, press ∧ or ∨ to display “Yes” or “No” and press OK.
  If you selected “No”, the device returns to the previous screen. If you selected “Yes”, a confirmation message is displayed again.
  If you selected “No”, the previous screen is displayed again, but since the device remembers that it needs to initialize the flash memory, the flash memory is initialized the next time that the power is turned on. If you selected “Yes”, the device automatically restarts and the flash memory is initialized.

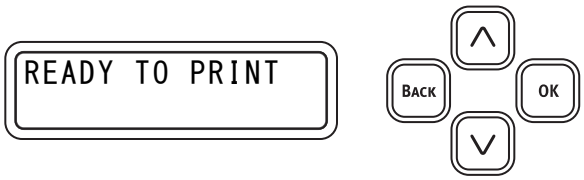


7.7 Initializing the network settings

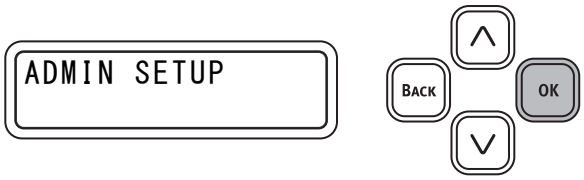
The default network settings can be restored.

To initialize the network settings, proceed as follows:

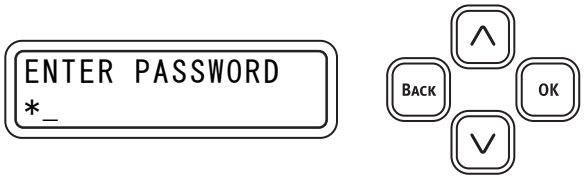
- Confirm that “Ready to print” is displayed on the device.



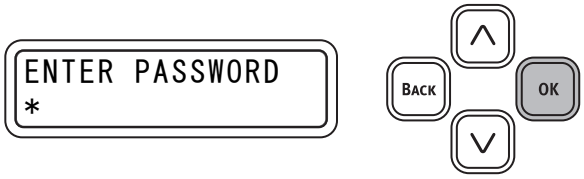
- Press ∧ or ∨ several times to display “Admin setup” and press OK.



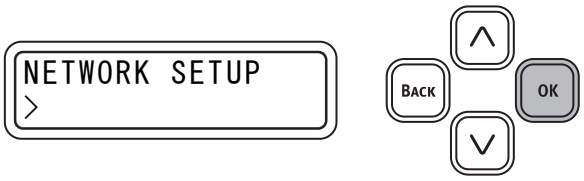
- When “Enter password” is displayed, enter the password (paragraph 6.3):



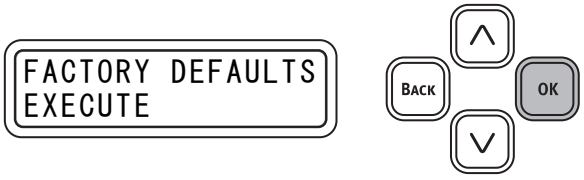
- When the password has been entered, press OK:



- Press OK when “Network setup” is displayed.



- Press ∧ or ∨ several times to display “Factory defaults / Execute”, and press OK.

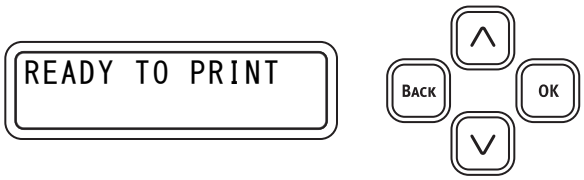


7.8 Initializing the device settings

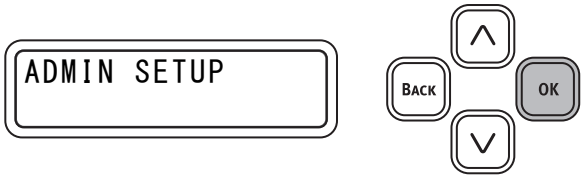
The default settings of the device can be restored. When this operation is performed, the device automatically restarts.

To initialize the device settings, proceed as follows:

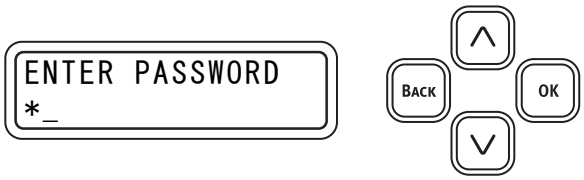
- Confirm that “Ready to print” is displayed on the device.



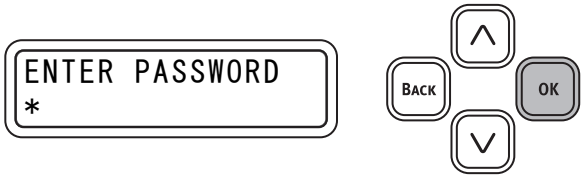
- Press ∧ or ∨ several times to display “Admin setup” and press OK.



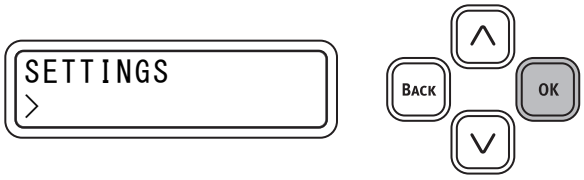
- When “Enter password” is displayed, enter the password (paragraph 6.3):



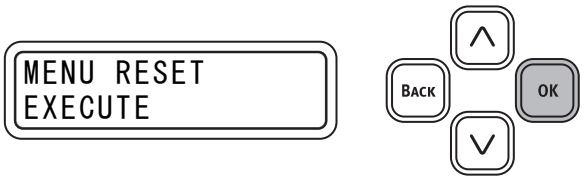
- When the password has been entered, press OK:



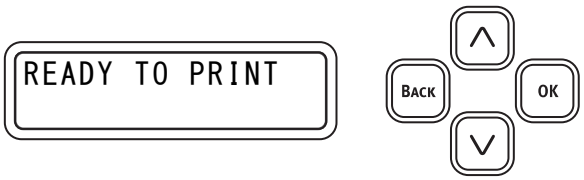
- Press ∧ or ∨ several times to display “Settings” and press OK.



- Press OK when “Menu reset / Execute” is displayed.



- Wait until “Ready to print” is displayed on the screen after the device restart.

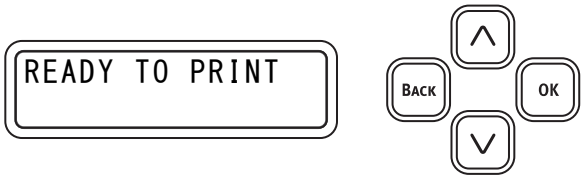


7.9 Changing the administrator password

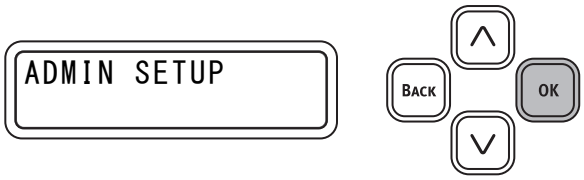
It is recommended that the default password is changed for increased security.
Set 6 to 12 digits for the password. Numbers and lower case letters can be used for the password.

To change the administrator password, proceed as follows:

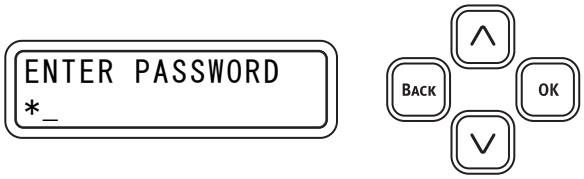
- Confirm that “Ready to print” is displayed on the device.



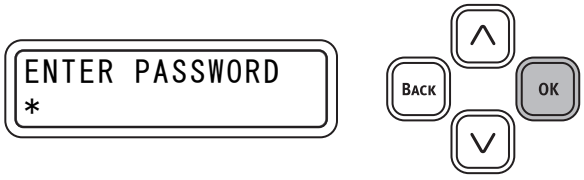
- Press ∧ or ∨ several times to display “Admin setup” and press OK.



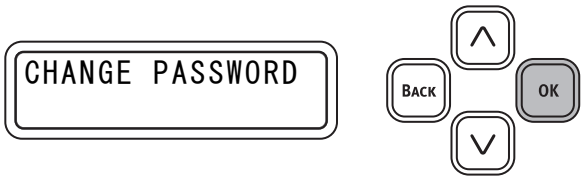
- When “Enter password” is displayed, enter the password (paragraph 6.3):



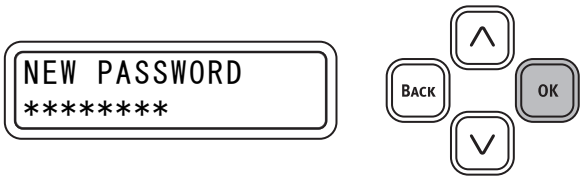
- When the password has been entered, press OK:



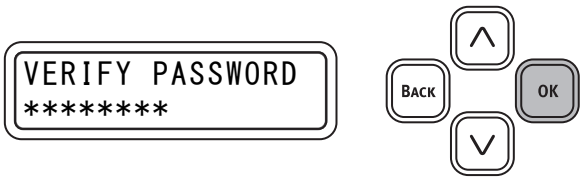
- Press ∧ once to display “Change password” and press OK.



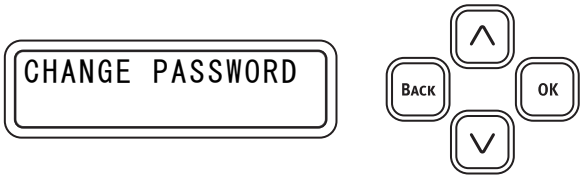
- When “New password” is displayed, enter the new password and press OK:



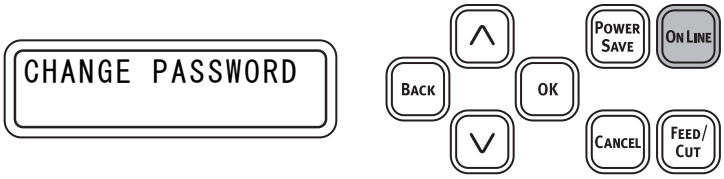
- When the confirmation screen is displayed, enter the same password and press OK:



- The password change is complete when “Change password” is displayed.



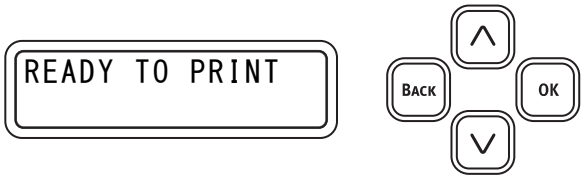
- Press ONLINE to return to the “Ready to print” standby status.



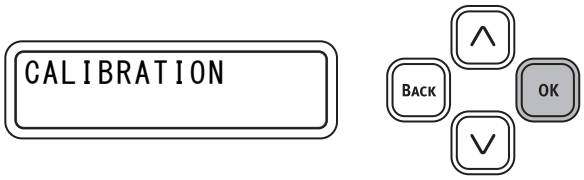
7.10 Correcting the color density

To correct the color density, proceed as follows:

- Confirm that “Ready to print” is displayed on the device.

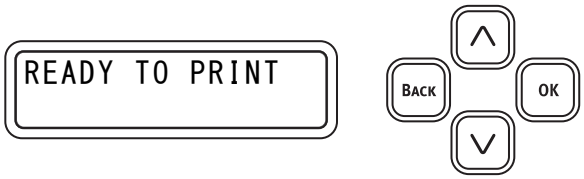


- Press ∧ or ∨ several times to display “Calibration” and press OK.



- Press ∨ once to display “Adjust density / Execute” and press OK.

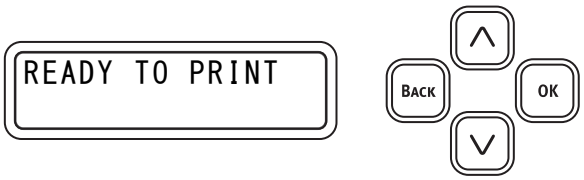
- The procedure is complete when “Ready to print” is displayed on the device.



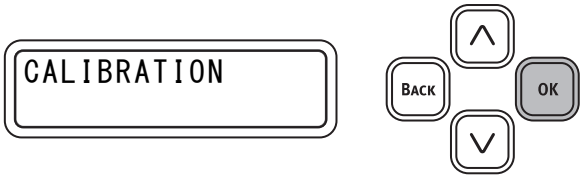
7.11 Adjusting the color balance

You can adjust the cyan, magenta, and yellow highlights (light areas), intermediate areas, and dark areas. This section describes the procedure for adjusting cyan. If you want to adjust other colors, perform the same operation for those colors.

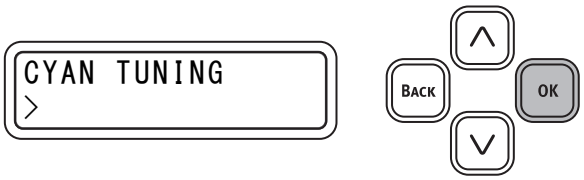
- Confirm that “Ready to print” is displayed on the device.



- Press ∧ or ∨ several times to display “Calibration” and press OK.



- Press ∧ or ∨ several times to display “Cyan tuning” and press OK.



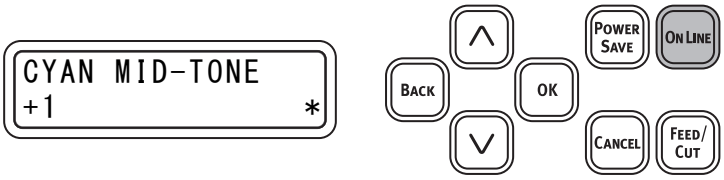
- Press ∧ or ∨ several times to display “Cyan highlight”, “Cyan mid-tone”and “Cyan dark” and press OK.

- Press ∧ or ∨ to display the value tou want to set and press OK. Positive values are darker and negative values are lighter

- Press ∧ or ∨ to display the value tou want to set and press OK. Positive values are darker and negative values are lighter.

- Confirm that “*” is display to the right of the value you want to set.

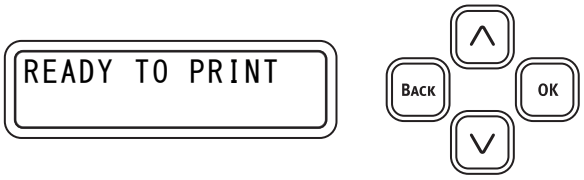
- Press ONLINE to return to the “Ready to print” standby status.



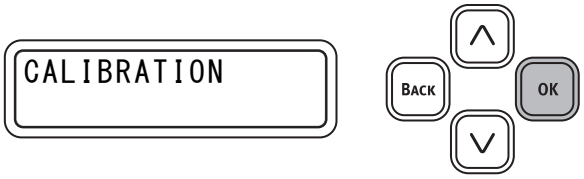
7.12 Correcting the color shift

To correct the color shift, proceed as follows:

- Confirm that “Ready to print” is displayed on the device.

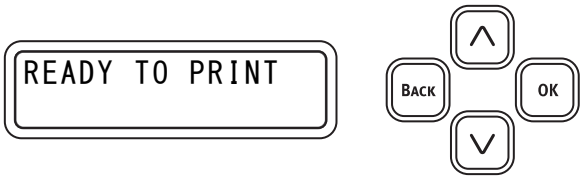


- Press ∧ or ∨ several times to display “Calibration” and press OK.



- Press ∧ or ∨ several times to display “Adjust registration / Execute” and press OK.

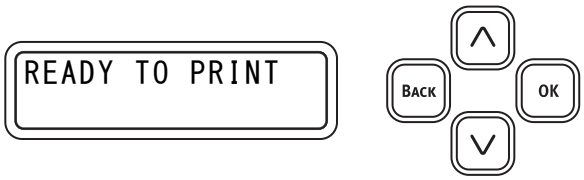
- The procedure is complete when “Ready to print” is displayed on the device.



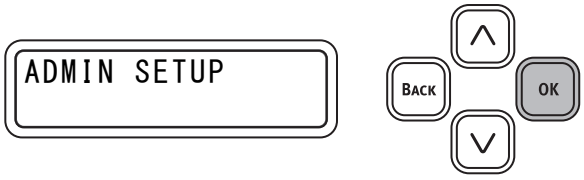
7.13 Setting the volume for the paper empty buzzer

A buzzer notifies the user when paper has run out.
By default, the device is set to sound the buzzer when the paper has run out.
To adjust the volume, proceed as follows:

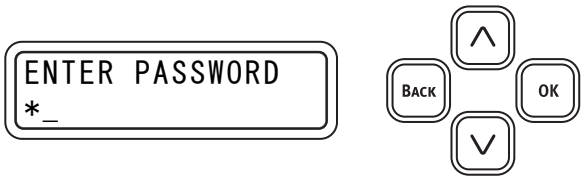
- Confirm that “Ready to print” is displayed on the device.



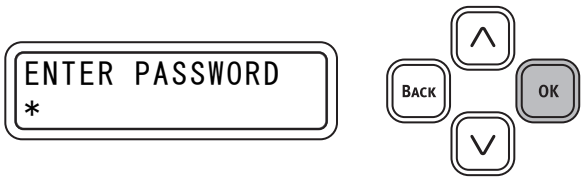
- Press ∧ or ∨ several times to display “Admin setup” and press OK.



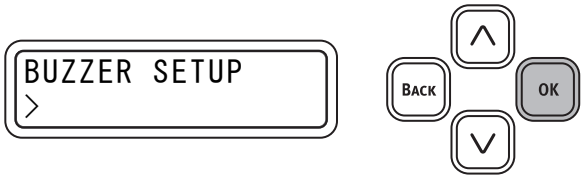
- When “Enter password” is displayed, enter the password (paragraph 6.3):



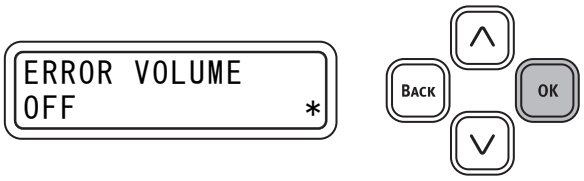
- When the password has been entered, press OK:



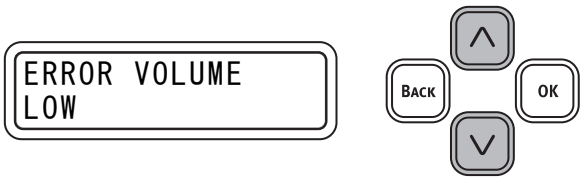
- Press ∧ or ∨ several times to display “Buzzer setup” and press OK.



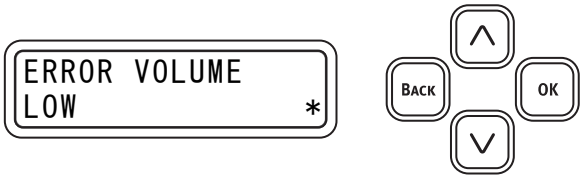
- Press OK when “Error volume” is displayed.



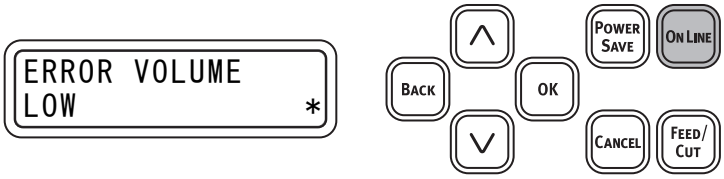
- Press ∧ or ∨ to display the value tou want to set and press OK.



- Confirm that “*” is display to the right of the value you want to set.



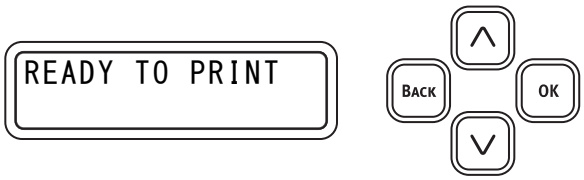
- Press ONLINE to return to the “Ready to print” standby status.



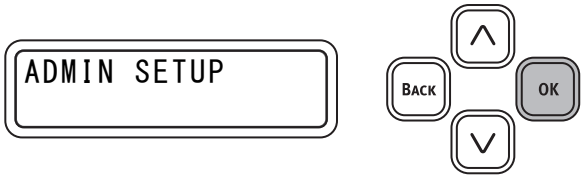
7.14 Setting the volume for the printing complete buzzer

A buzzer notifies the user when printing has finished.
By default, the buzzer for complete printing is set to off.
Proceed as follows:

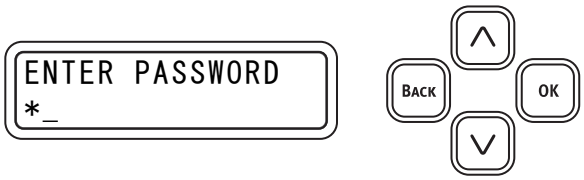
- Confirm that “Ready to print” is displayed on the device.



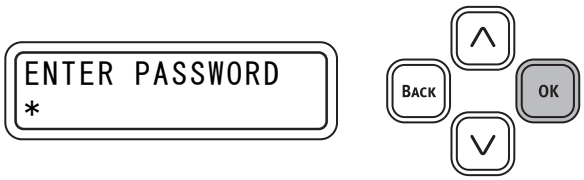
- Press ∧ or ∨ several times to display “Admin setup” and press OK.



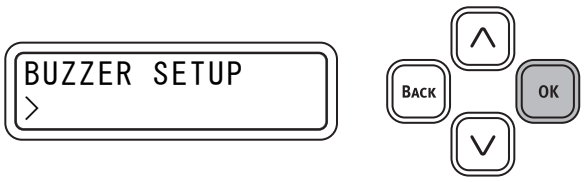
- When “Enter password” is displayed, enter the password (paragraph 6.3):



- When the password has been entered, press OK:



- Press ∧ or ∨ several times to display “Buzzer setup” and press OK.

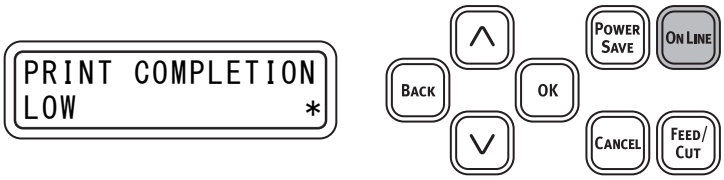


- Press ∧ or ∨ several times to display “Print completion volume” and press OK.

- Press ∧ or ∨ to display the value tou want to set and press OK.

- Confirm that “*” is display to the right of the value you want to set.

- Press ONLINE to return to the “Ready to print” standby status.

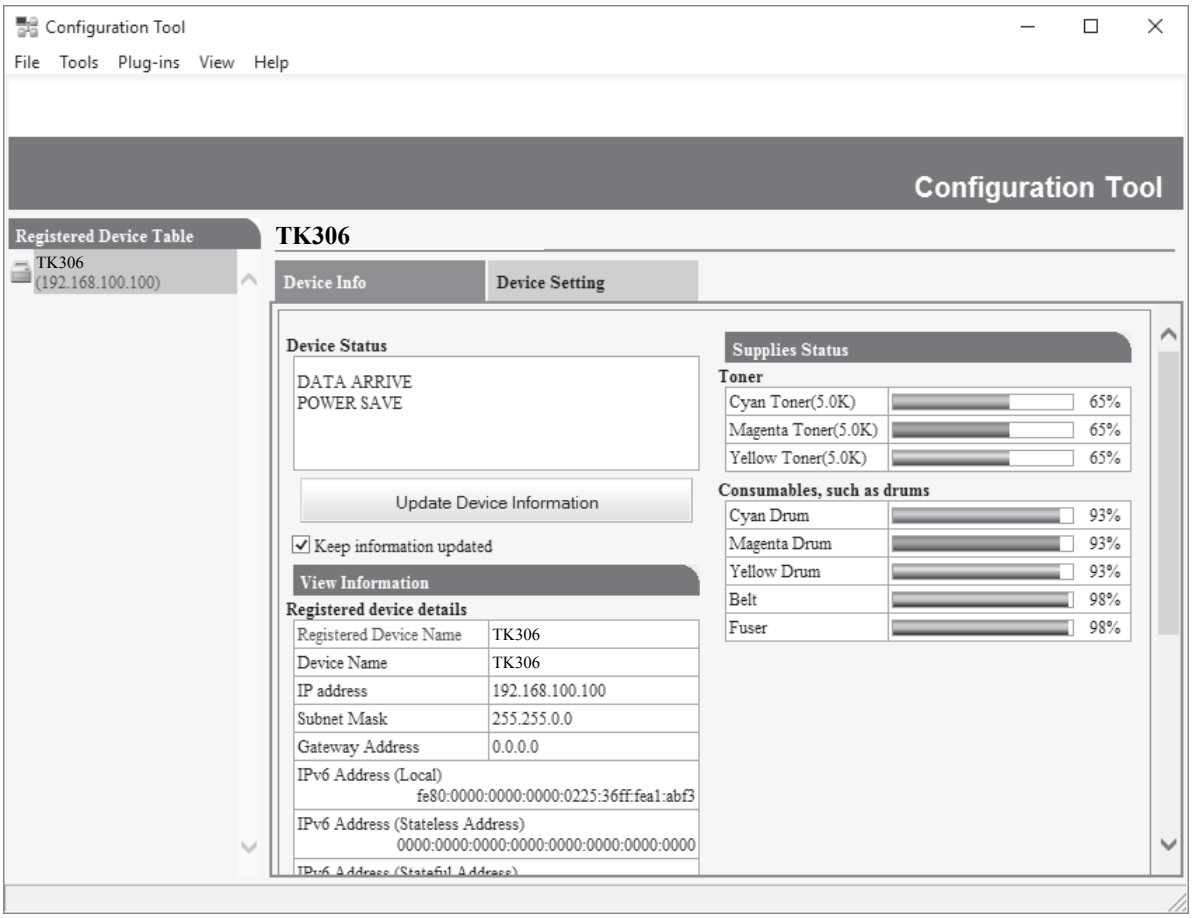


8 CONFIGURATION BY SOFTWARE

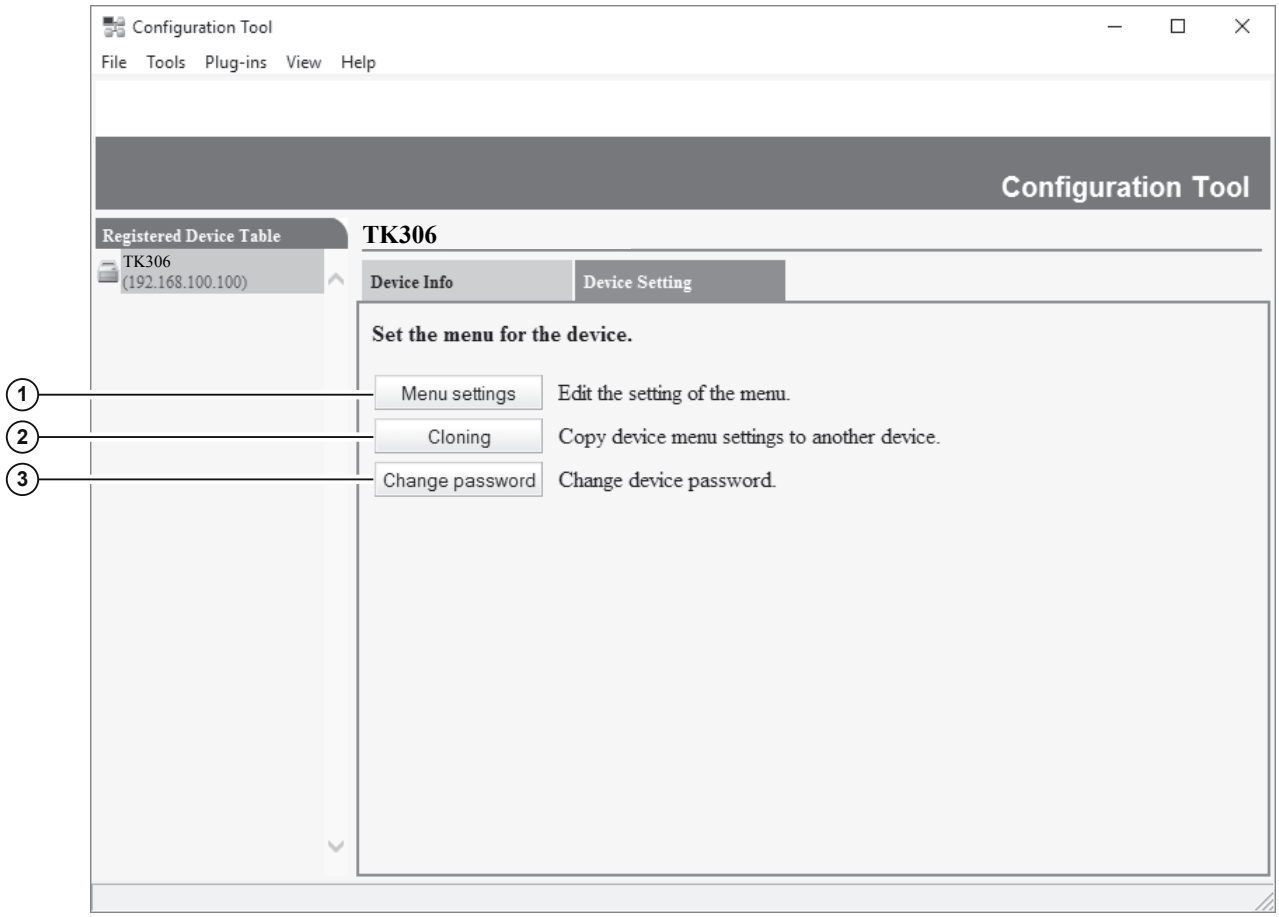
The setup parameters can be set by using the Configuration Tool software available in the website www.custom4u.it.
The Configuration Tool changes the menu settings of the device, performs cloning, and sets the network of the device.
It also enables form data to be registered and deleted, and stored jobs to be managed.

The Configuration Tool is divided into four tabs listed below.

The “Device Info” Tab displays information related to the device

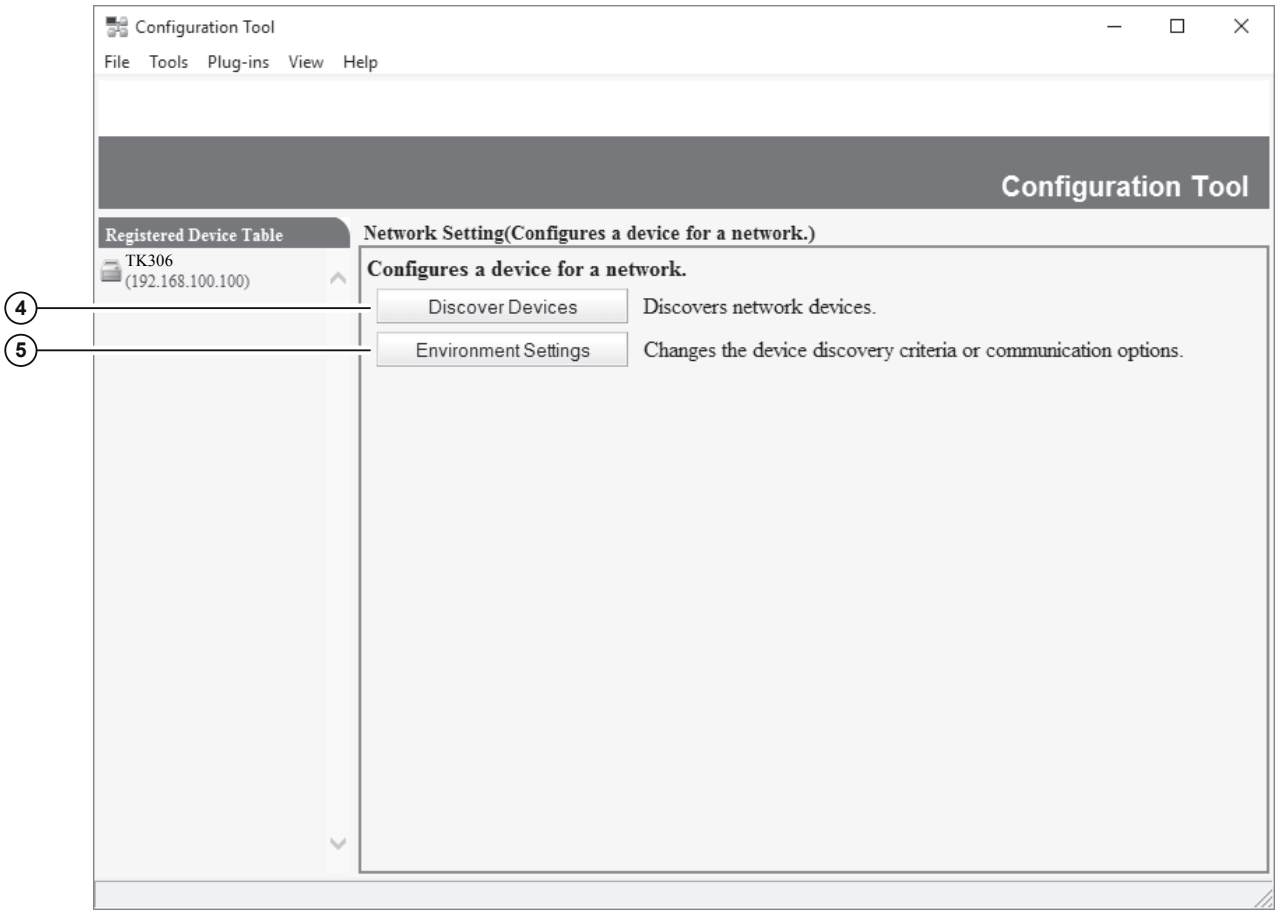


The “Device Setting” Tab configures and copies the menus of the device.



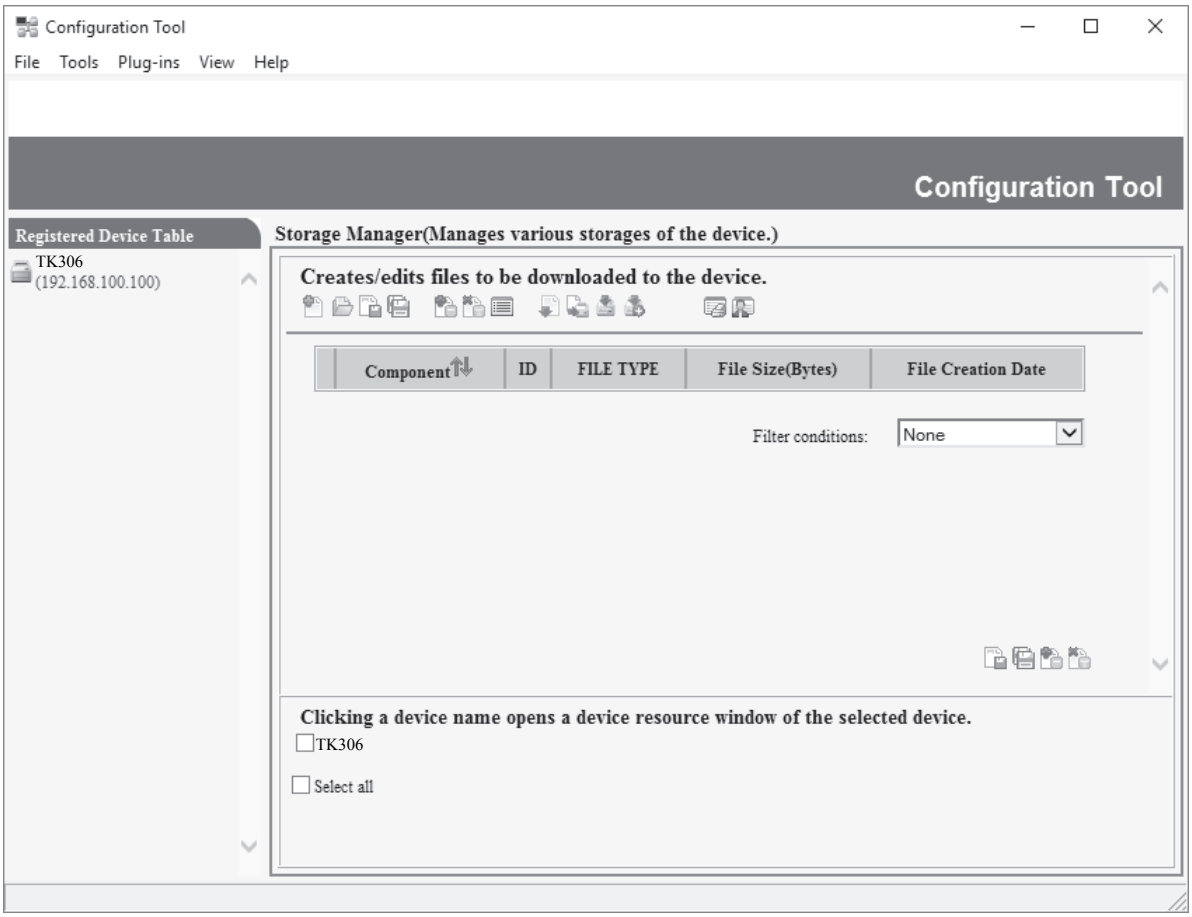
NO.	ITEM	DESCRIPTION
1	Menu settings	Changes the settings of the menu items of the device.
2	Cloning	Copies the settings of the menu items of the device to another device.
3	Change password	Changes the administrator password of the device.

The “Network Setting” Plug-in configures the network.



NO.	ITEM	DESCRIPTION
4	Discover Devices	Discovers network devices.
5	Environment Settings	Changes the device detection standard and communication options.

The “Storage Manager” Plug-in registers and edits the files to download to the device.



8.1 Registering the device

When installing the device to the first time, register it to the Configuration Tool. Proceed as follows:

- Click START and select “General” > “Configuration Tool”.
- Select “Register device” from the “Tools” menu.
- When the devices that can be registered are displayed, select the device and click REGISTER.
- Click YES on the confirmation screen.

8.2 Starting the Configuration Tool

To start the Configuration Tool proceed as follows:

- Click START and select “General” > “Configuration Tool”.
- Select this device from “Registered Device Table”.

8.3 Checking the status of the device

To check the status and information of the device proceed as follows:

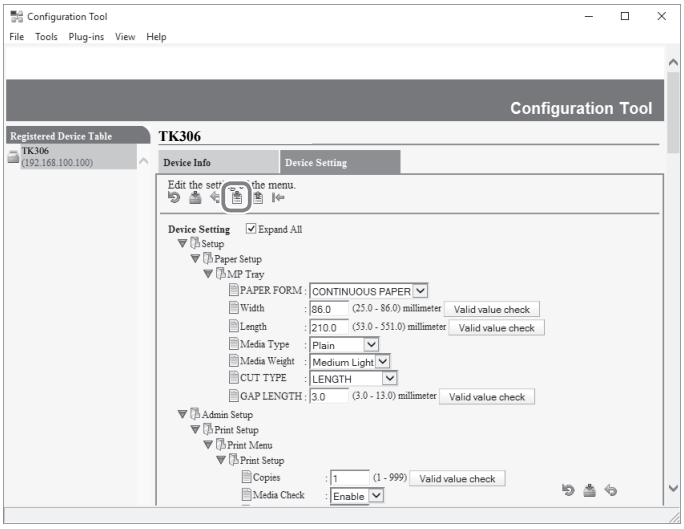
- Click START and select “General” > “Configuration Tool”.
- Select this device from “Registered Device Table”.
- Select the “Device info” tab.

8.4 Changing the menu settings

It is possible to change the menu settings of the device or copy the settings to another device. Proceed as follows.

Savings the setting to a file

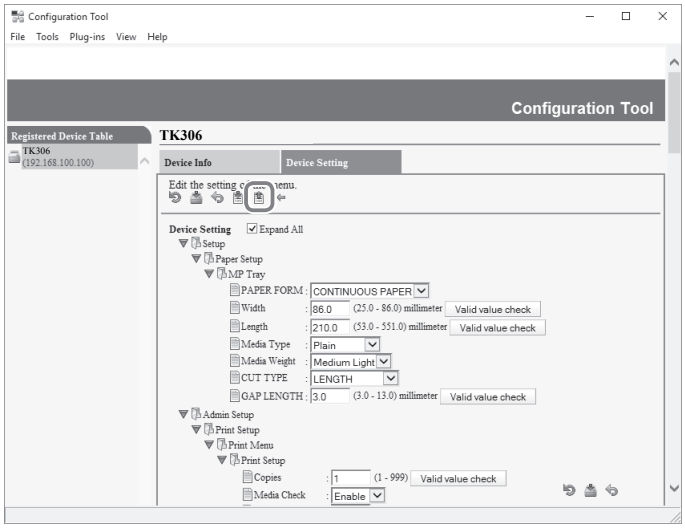
- Click START and select “General” > “Configuration Tool”.
- Select this device from “Registered Device Table”.
- Select the “Device setting” tab.
- Click MENU SETTINGS.
- Click BACKUP SETTINGS.



- Enter the file name, select the folder to save the file and click SAVE.

Restore the settings from a file

- Click START and select “General” > “Configuration Tool”.
- Select this device from “Registered Device Table”.
- Select the “Device setting” tab.
- Click MENU SETTINGS.
- Click RESTORE SETTINGS.



- Check the displayed message and click YES.
- Select the file to restore and click OPEN.
- Click SAVE TO DEVICE.

Changing the administrator password

- Click START and select “General” > “Configuration Tool”.
- Select this device from “Registered Device Table”.
- Select the “Device setting” tab.
- Click CHANGE PASSWORD.
- Enter the current password and new password then click OK.

8.5 Copying settings (cloning)

Menu settings can be copied to another device. Proceed as follows:

- Click START and select “General” > “Configuration Tool”.
- Select this device from “Registered Device Table”.
- Select the “Device settings” tab.
- Click CLONING.
- Enter the administrator password and click OK.
- Select the destination device and the cloning settings.
- Click EXECUTE.
- Enter the administrator password of the destination device and click OK.

8.6 Configuring the network

To configure the network, proceed as follows.

Searching for the device on a network

- Click START and select “General” > “Configuration Tool”.
- Select “Network setting” in the “Plug-in” menu.
- Select “Discover devices”.

Specifying the search condition

- Click START and select “General” > “Configuration Tool”.
- Select “Network setting” in the “Plug-in” menu.
- Select “Environment settings”.
- Configure the search conditions as required and click OK.

Changing the IP Address

- Click START and select “General” > “Configuration Tool”.
- Select “Network setting” in the “Plug-in” menu.
- Select “Discover devices”.
- Select the device from the list of devices.
- Click DEVICE SETTINGS.
- Change the settings as required.
- Click SETUP.
- Enter the administrator password and then click OK.
- Click OK and restart the device.

8.7 Registering forms

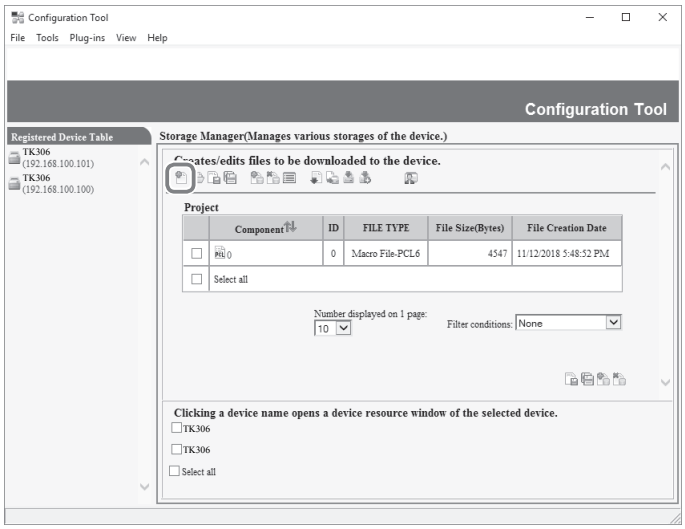
Forms for logos, etc. can be registered in the device for performing overlay printing (see paragraph 9.19). Proceed as follows.

Creating forms

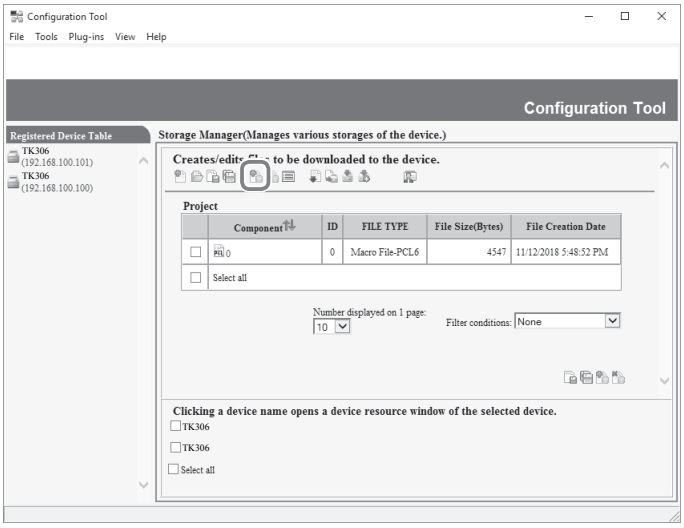
- Click START and select “Devices and printers”.
- Right-click the icon of the device and select the required printer driver in “Printer properties”.
- Select the “Ports” tab, select “FILE:” in “Port” and select “Apply”.
- Create the forms to register to the device.
- Print.
- Enter the file name to save.
- Select the original port in “Port” on the “Ports” tab and select OK.

Registering forms using the Configurator Tool

- Click START and select “General” > “Configuration Tool”.
- Select “Storage Manager” in the “Plug-in” menu.
- Click NEW PROJECT.



- Click ADD FILE and select the form file you created.



- Click the form file.
- Enter the form ID in “ID” and click OK. Pay attention not change “Target volume” or “Path”.
- Select the device in the window on the bottom of the Storage Manager plug-in screen. If the device is not registered in the Configuration Tool see paragraph 8.1.
- Click SEND PROJECT FILES TO PRINTER.
- Delete items registered to printer in the device before performing registration. Select the form and click OK.
- Enter the administrator password and click OK.
- Confirm the setting results and click BACK.

8.8 Registering a demonstration page

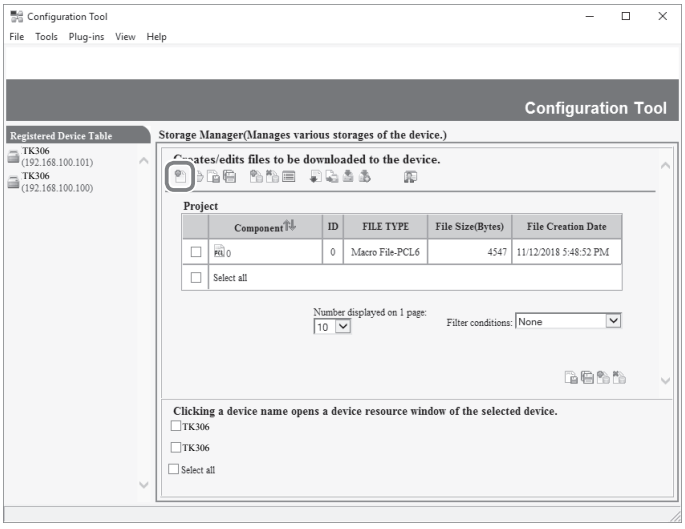
Proceed as follows:

Creating a demonstration page

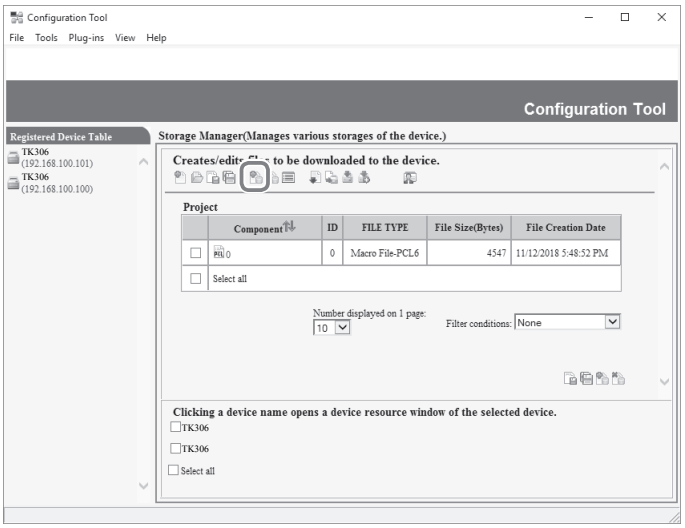
- Click START and select “Devices and printers”.
- Right-click the icon of the device and select the required printer driver in “Printer properties”.
- Select the “Ports” tab, select “FILE:” in “Port” and select “Apply”.
- Create the forms to register to the device.
- Print.
- Enter the file name to save.
- Select the original port in “Port” on the “Ports” tab and select OK.
- Select the created file and change the extension to .DMO.

Registering a demonstration page

- Click START and select “General” > “Configuration Tool”.
- Select “Storage Manager” in the “Plug-in” menu.
- Click NEW PROJECT.



- Click ADD FILE and select the form file you created. Select “Demo Page file (*.DMO)” on the bottom right of the screen to select the created demo page file.



- Click the demo page file.
- Enter a component name for the demo page in “Component” and click OK.
- Select the device in the window on the bottom of the Storage Manager plug-in screen. If the device is not registered in the Configuration Tool see paragraph 8.1.
- Click SEND PROJECT FILES TO PRINTER.
- Delete items registered to printer in the device before performing registration. Select the form and click OK.
- Enter the administrator password and click OK.
- Confirm the setting results and click BACK.

8.9 Checking the free memory space

To check the free memory or hard disk space proceed as follows:

- Click START and select “General” > “Configuration Tool”.
- Select “Storage manager” in the plug-in menu.
- Click the device name in the device selection area on the bottom of the Storage manager plug-in screen.

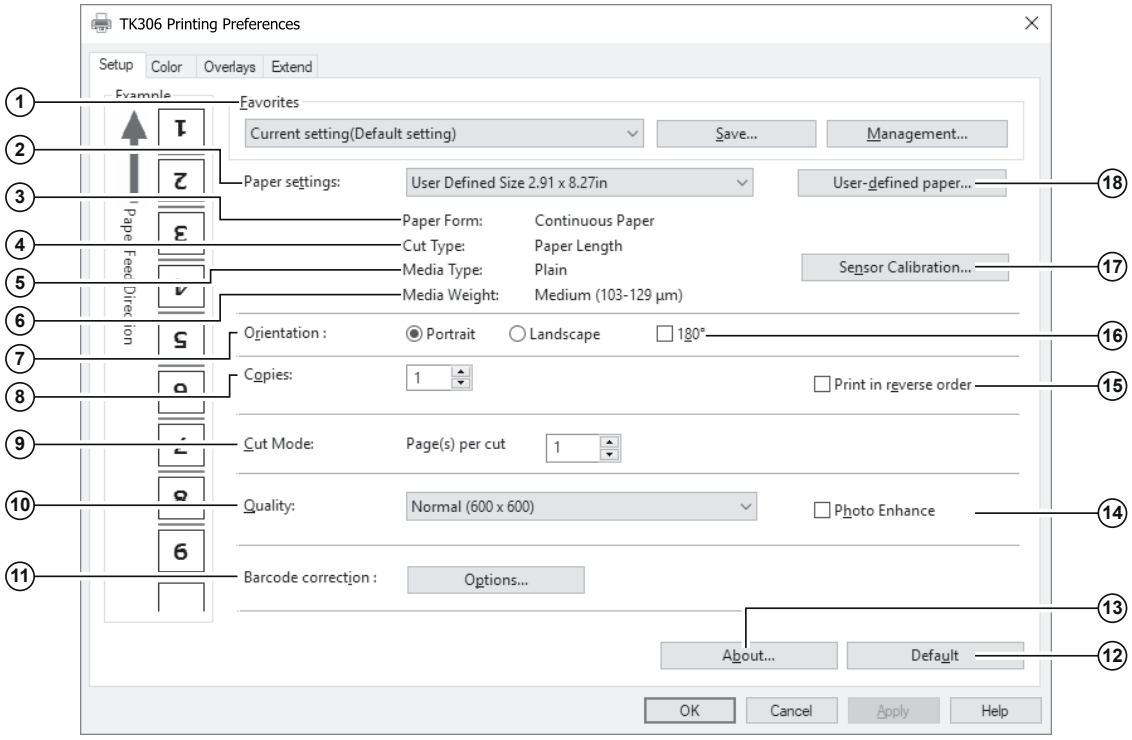
8.10 Removing the device

To cancel the registration of the device proceed as follows:

- Click START and select “General” > “Configuration Tool”.
- Right-click the device in “Registered device table”.
- Select “Remove device”.
- Click YES on the confirmation screen.

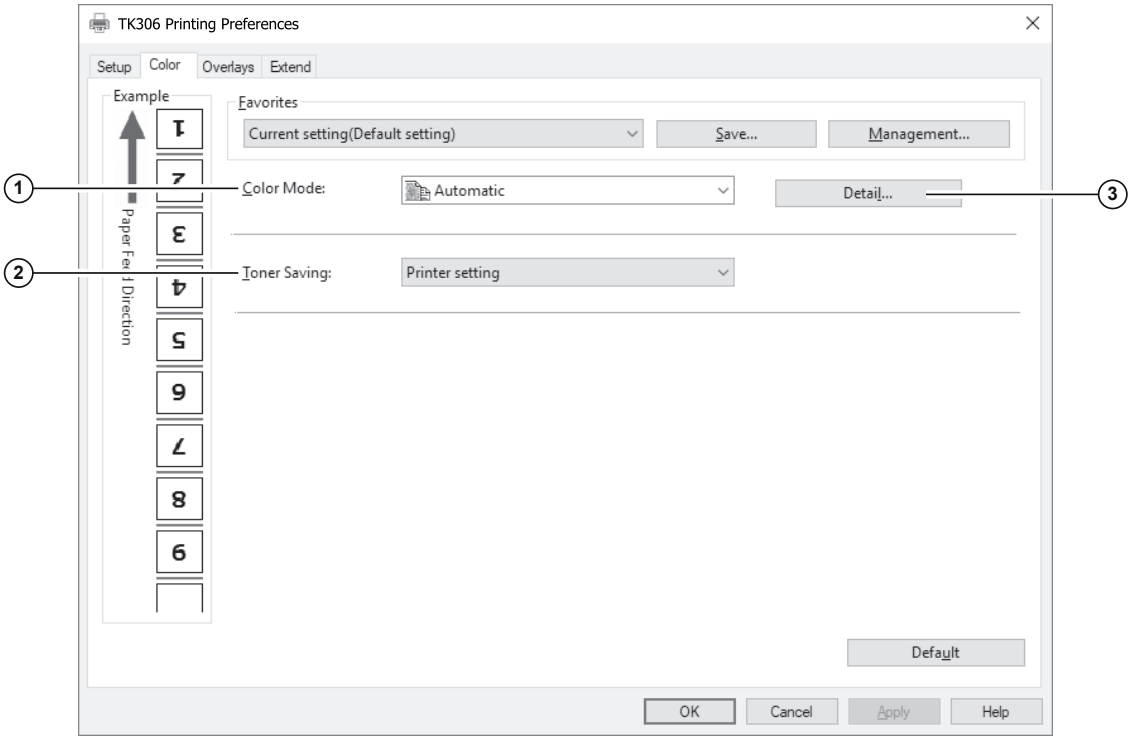
9 PRINTER DRIVER

9.1 Printer driver [Setup] tab functions



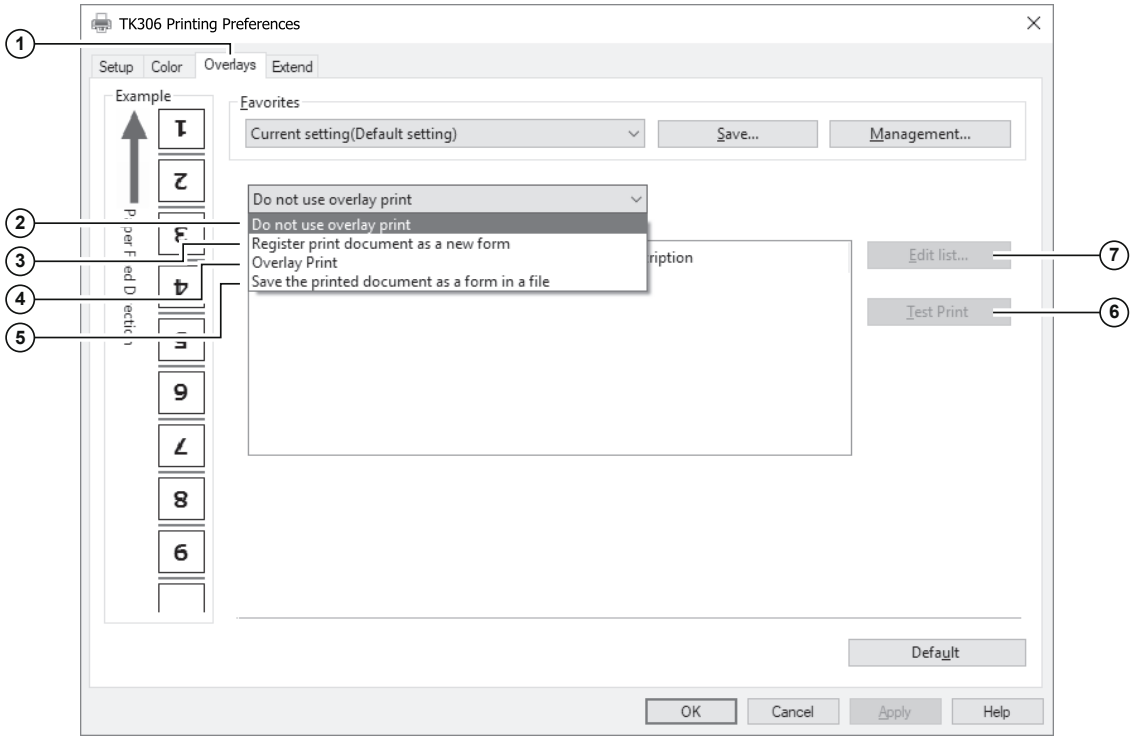
NO.	ITEM	DESCRIPTION
1	Favorites	Enables the printer driver settings to be saved to a file.
2	Paper settings	Sets the paper to print on.
3	Paper form	Displays the paper format set for the user-defined paper.
4	Cut type	Displays the cut type set for the user-defined paper.
5	Media type	Displays the paper type set for the user-defined paper.
6	Media weight	Displays the paper weight set for the user-defined paper.
7	Orientation	Sets the orientation for printing on the paper.
8	Copies	Enter the number of copies to print at once.
9	Cut mode	Cuts every specified number of pages.
10	Quality	Sets the resolution for printing.
11	Barcode correction	Configures settings for improving the accuracy of reading barcodes.
12	Default	Restores the default settings of this tab.
13	About	Displays the version information of the printer driver.
14	Photo Enhance	Prints the image data for photos, etc. in detail.
15	Print in reverse order	Prints from the last page of the document.
16	180 turn	Prints with the orientation rotated 180 degrees.
17	Sensor calibration	Adjusts the sensors used for detecting paper and marks.
18	User-defined paper	Adds, changes, and deletes paper.

9.2 Printer driver [Color] tab functions



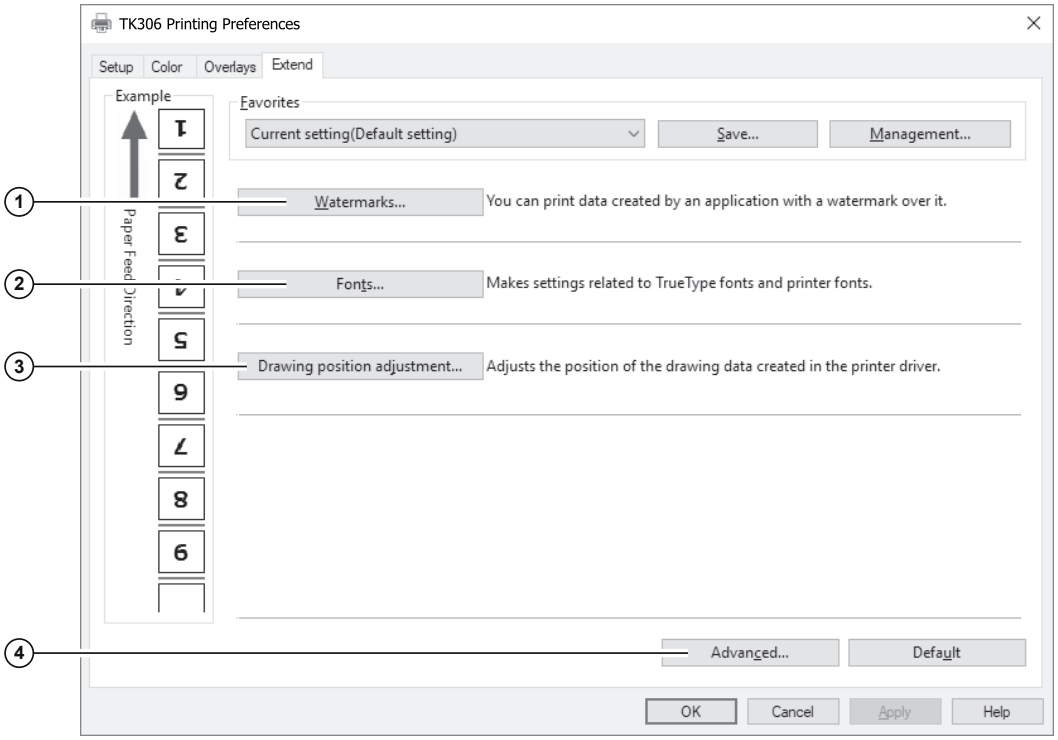
NO.	ITEM	DESCRIPTION
1	Color mode	Displays the color mode set with the DETAIL button.
2	Toner saving	Configures settings related to saving toner when printing.
3	Detail	Configures settings related to color printing.

9.3 Printer driver [Overlays] tab functions



NO.	ITEM	DESCRIPTION
1	Overlay	Selects whether to print the document with a form overlaid, register the document as a new form, or save the document to a file as a form.
2	Do not use overlay print	Prints documents without overlaying a form.
3	Register print document as a new form	Registers the document to print to the printer as a new form.
4	Overlay print	Overlays the selected form or group to the document to print.
5	Saving the printed document as a form in a file	Saves the document to print as a file in the form format.
6	Test print	Prints the selected form only.
7	Edit list	Sets the list of overlays that can be selected for overlay printing.

9.4 Printer driver [Extend] tab functions

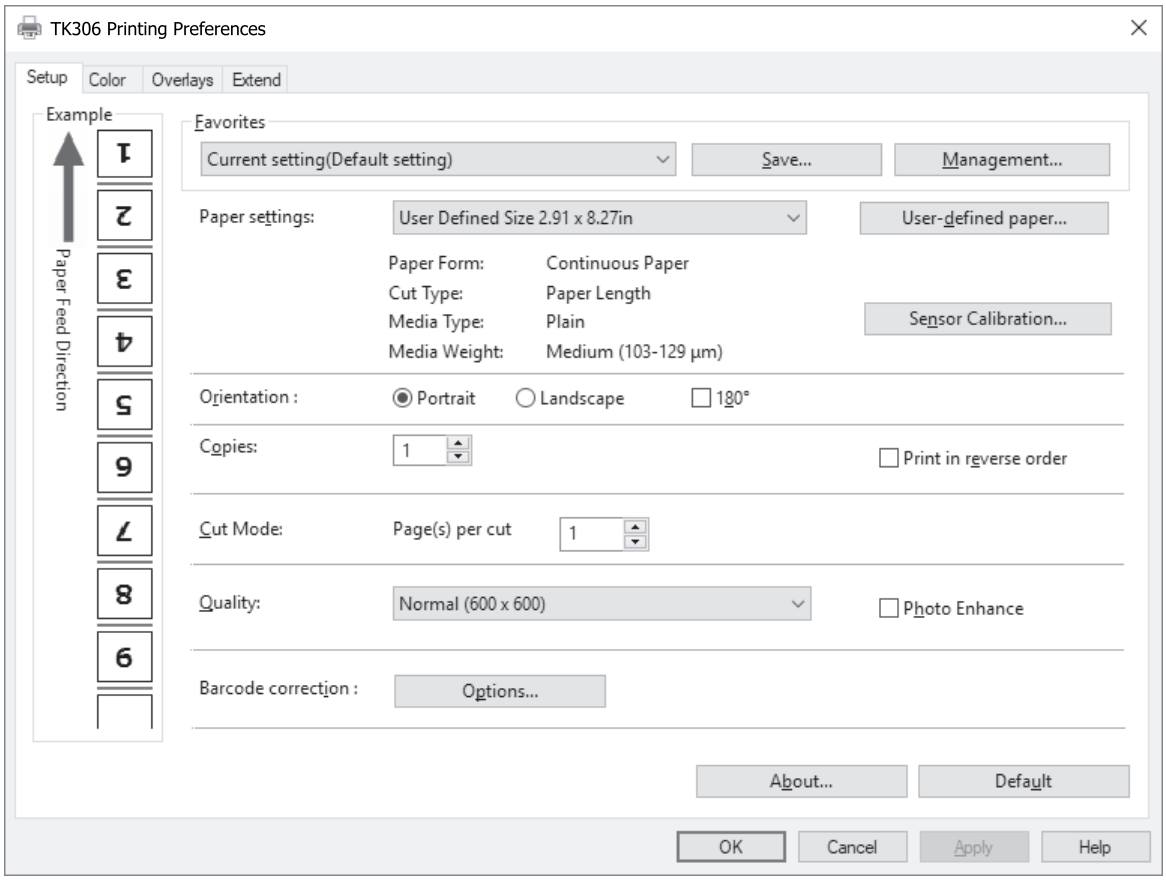


NO.	ITEM	DESCRIPTION
1	Watermarks	You can print data created by an application with a watermark over it.
2	Fonts	Configures settings related to TrueType fonts and printer fonts.
3	Drawing position adjustment	Adjusts the position of the drawing data created by the printer driver.
4	Advanced	When the desired print results are not obtained, this may enable them to be produced, depending on the symptom.

9.5 Registering paper information to the printer driver

To register the information for the paper to use, proceed as follows:

- Click START and select “Control Panel” in “Windows System”.
- Click VIEW DEVICES AND PRINTERS.
- Right click the “TK306” icon and select “Printing Preferences”.
- Click USER-DEFINED PAPER on the “Setup” tab.



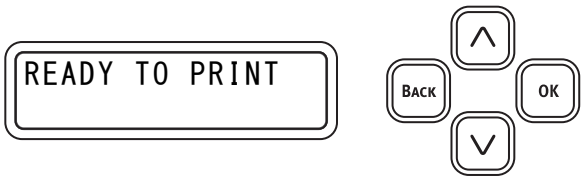
- Enter the information for the paper register:
  - Select “New Paper” from “Registered User-defined paper”.
  - Enter the paper name in “Paper Name”.
  - Select the paper format.
  - Select the cut type.
  - Select the paper type.
  - Select the paper weight.
  - Enter the paper size information.
- Click ADD when all the information has been entered.

9.6 Sensor calibration

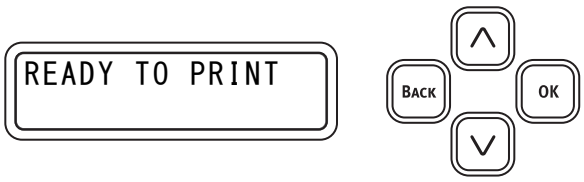
If paper jam or paper mark detection occurs frequently perform the sensor calibration procedure.
Sensor calibration cannot be performed from the printer driver while the device has print data or while “Please load paper” is displayed on the device screen.
An execution error occurs unless paper is loaded within one minute of “Please load paper” being displayed. The execution error can be cleared by opening and closing the device cover.
Remove the paper in the device when “Please remove paper” is displayed on the screen. Failing to do so will cause a paper detection error. The paper detection error can be cleared by opening and closing the device cover.
When you change the paper to use, it this recommended to execute the sensor calibration.

To perform sensor calibration, proceed as follows:

- Confirm that “Ready to print” is displayed on the device.



- Click START and select “Control Panel” in “Windows System”.
- Click VIEW DEVICES AND PRINTERS.
- Right click the “TK306” icon and select “Printing Preferences”.
- Click SENSOR CALIBRATION on the “Setup” tab.
- Remove the paper from the device when “Would you like to execute sensor calibration” is displayed.
- Click EXECUTE on the printer driver screen of the computer.
- Load the paper in the device when “Please load paper” is displayed on the screen of the device.
- The procedure is completed when “Ready to print” is displayed on the device.



9.7 Printing from a computer

To print from a computer, proceed as follows:

- Load the paper (see paragraph 5.10).
- Open the file to print.
- Select “Print” from the “File” menu.
- Select “TK306” as the printer and click PREFERENCES.
- Select the paper to use in “Paper Settings” on the “Setup” tab. If the paper to use does not exists, click USER-DEFINED PAPER and register the paper. For details, see paragraph 9.5.
- Select the items to set in each tab and click OK.
- Click PRINT.

9.8 Registering favorites

Registering frequently used settings to favorites with a name eliminates the need for changing the settings each time printing is performed. Select the registered name when printing.

To register favorites, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Change the items on each tab to the values you want to set and click REGISTER.
- Enter the setting name in “Setting name” and click OK.
- Click OK to close the print settings dialog.

9.9 Specifying the print orientation

To change the print orientation, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select the desired print operation in “Orientation” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.10 Rotating the print result 180 degrees

Is possible to change the settings of the printer driver to rotate the print result by 180 degrees without changing the file to print.
To rotate the print result, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select “180°” in “Orientation” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.11 Specifying the number of prints

Are available values from 1 to 999. Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Enter the number of prints in “Copies” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.12 Printing from the last page

The document will be in page order if the print results are stacked with the printed surface facing up. Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select “Print in reverse order” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.13 Cutting every specified number of pages

You can cut the paper every specified number of pages when “Gap” is selected in “Cut type”.
Specify the position to cut the paper when using continuous paper.

When “Hole” is selected in “Cut type”, “Cut by page” is always set to 1 and the device always cut the each page.

You cannot specify a number of pages that exceeds a total of 551 mm in paper length.

Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Enter the number of pages to cut the paper at in “Page(s) per cut” in “Cut mode” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.14 Changing the print quality

To change the print quality, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select a value of your choice in “Quality” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.15 Printing with the photo mode

To print the image data of photos, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select “Photo Enhance” on the “Setup” tab.
- Click OK.
- Click PRINT.

9.16 Correcting barcodes for printing

To improve the accuracy of reading barcodes, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click PREFERENCES in “Barcode correction” on the “Setup” tab.
- Select a value in “Bar width adjustment”.
- Select “Replace mono barcode with cyan” as necessary.
- Click OK.
- Click PRINT.

NOTE: Black or grey parts may be replaced by cyan when printing images or figures other than barcodes. If selected, colors may overlap or unintended colors may be printed when printing in color.
May become disabled when greyscale is set from the application.

9.17 Changing color settings

To adjust color printing, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select a value of your choice in “Color mode” on the “Color settings” tab.
- Click OK.
- Click PRINT.

9.18 Reducing toner consumption when printing

To reduce toner consumption when performing test prints, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select a value of your choice in “Toner Saving” on the “Color settings” tab.
- Click OK.
- Click PRINT.

9.19 Overlaying text or logos when printing

You can print on forms registered to the device on advance. Proceed as follows:

- Register the forms to the device. For details see paragraph 9.21.
- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select the “Overlays” tab.
- Select “Overlay print” from the pull-down menu and select the form to use for overlay printing from the drop-down list (*).
- Click OK.
- Configure the settings as required and click OK.
- Click PRINT on the “Print” screen.

NOTE
(*): When adding a form registered in the Configuration Tool or overlaying multiple form as a group, click EDIT LIST to add them to the list.
To add a form registered in the Configuration Tool: Click ADD A REGISTERED FORM, enter the form name in “Form name” and the form ID registered in the Storage Manager plug-in of the Configuration Tool in “ID”, select the pages to apply that form to in “Print on Pages”, and click OK.

9.20 Registering print documents as new forms

Before performing overlay printing, perform the procedure to register the forms. Proceed as follows:

- Create the forms to register to the printer in an application.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select “Register print document as a new form” from the pull-down on the “Overlays” tab.
- Click OK.
- Configure the settings as required and click OK.
- Click PRINT on the “Print” screen.
- Enter the “Form Name” and “ID” to register the printer in “New Form”.
- Select the page to apply the overlay to in “Print on Pages” as the registration information to the printer driver. To specify the pages to apply, select “Custom”and enter the pages to apply in “Custom pages”.
- Click OK.

9.21 Saving the documents to print as files in the form format

You can save the documents to print as files in the form format. Proceed as follows:

- Create the forms to register to the printer in an application.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select “Save the printed document as a form in a file” from the pull-down menu on the “Overlays” tab.
- Click USE and select the destination.
- Click OK.
- Configure the settings as required and click OK.
- Click PRINT on the “Print” screen.
- In “Save the form with a name” enter “ID” and click OK.
- Click OK.

9.22 Printing hidden text

You can overlay user-defined text over files to print. Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click WATERMARK on the “Extend” tab.
- Click NEW.
- Enter the characters to print in “Text” on the “Watermark” screen.
- Configure “Font”, “Size” and the other settings as required and click OK.
- Confirm that the watermark to print is selected and click OK.
- Configure the settings as required and click OK.
- Click PRINT on the “Print” screen.

9.23 Printing with a specified font

To print in a specified font in a computer or the device, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Select the “Extend” tab.
- Click FONT.
- Select the print method in “True Type Font Output Type”.
- Click OK.
- Configure the settings as required and click OK.
- Click PRINT on the “Print” screen.

9.24 Adjusting the rendering position

To adjust the position of the render data, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click ADJUSTMENT on the “Extend” tab.
- Enter the vertical (Y) and horizontal (X) values on the “Adjustment” screen and click OK.
- Click OK.
- Click PRINT on the “Print” screen.

9.25 Reducing the size of the spool files (disablign EMF)

The following procedure may be effective for reducing the time until processing is returned the application after printing starts.

Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click ADVANCED on the “Extend” tab.
- On the “Advanced” screen, click REDUCE SIZE OF SPOOL FILE and select “ON” from the “Settings” drop-down box.
- Click OK.
- Click OK.
- Click PRINT on the “Print” screen.

9.26 Keeping the page layout when resizing a document

The following procedure may be effective for maintaining the page layout when printing with a zoom ratio.

Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click ADVANCED on the “Extend” tab.
- On the“Advanced” screen, click KEEP PAGE LAYOUT WHEN RESIZING DOCUMENT and select “ON” from the “Settings” drop-down box.
- Click OK.
- Click OK.
- Click PRINT on the “Print” screen.

9.27 Correcting faintness in thin lines and small text

To improve faintness in thin lines and small text, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click ADVANCED on the “Extend” tab.
- On the“Advanced” screen, click ADJUST ULTRA FINE LINES and select “ON” from the “Settings” drop-down box.
- Click OK.
- Click OK.
- Click PRINT on the “Print” screen.

9.28 Executing drum cleaning before printing

To execute drum cleaning before printing, proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click ADVANCED on the “Extend” tab.
- On the “Advanced” screen, click RUN MAINTENANCE CYCLE BEFORE PRINTING and select “ON” from the “Settings” drop-down box.
- Click OK.
- Click OK.
- Click PRINT on the “Print” screen.

9.29 Skipping blank pages

You can skip the printing of blank pages to save paper. Proceed as follows:

- Open the file to print.
- Select “Print” from the “File” menu.
- Click PREFERENCES.
- Click ADVANCED on the “Extend” tab.
- On the “Advanced” screen, click SKIP WHITE PAGES and select “ON” from the “Settings” drop-down box.
- Click OK.
- Click OK.
- Click PRINT on the “Print” screen.

9.30 Canceling printing

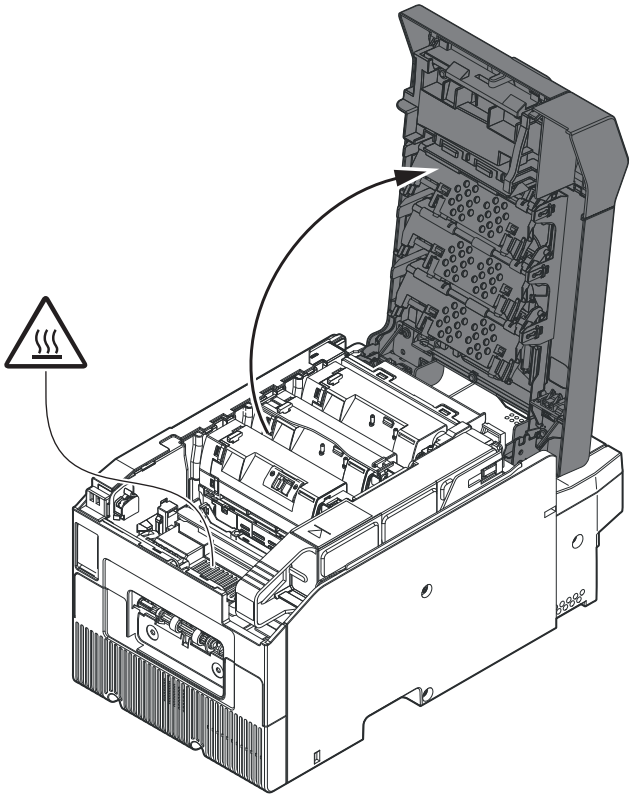
You can cancel printing from a computer when a large amount of data has been accidentally sent to the printer. Proceed as follows:

- Click DEVICES AND PRINTERS.
- Right-click the icon for the printer and select “See print jobs”.
- Select the file name to cancel printing for.
- Press DELETE key on the keyboard.
- Check the display of the control panel.
- Printing can be canceled pressing CANCEL from the operation panel of the device when “Processing” or “Data” is displayed.

10 MAINTENANCE

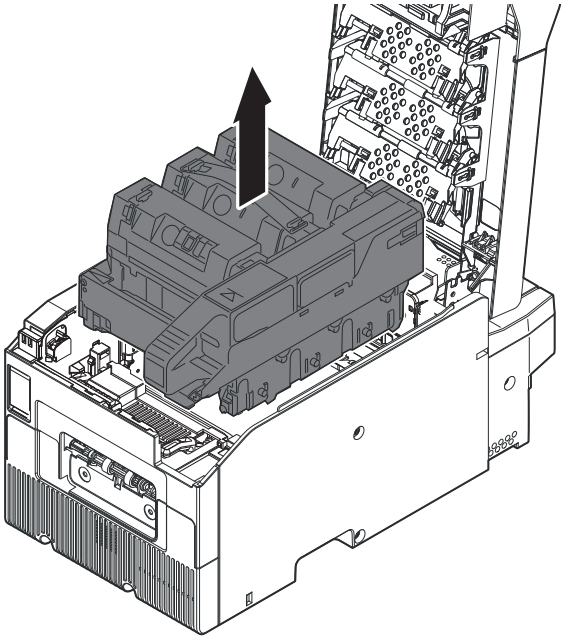
10.1 Paper jammed on the transfer belt

1



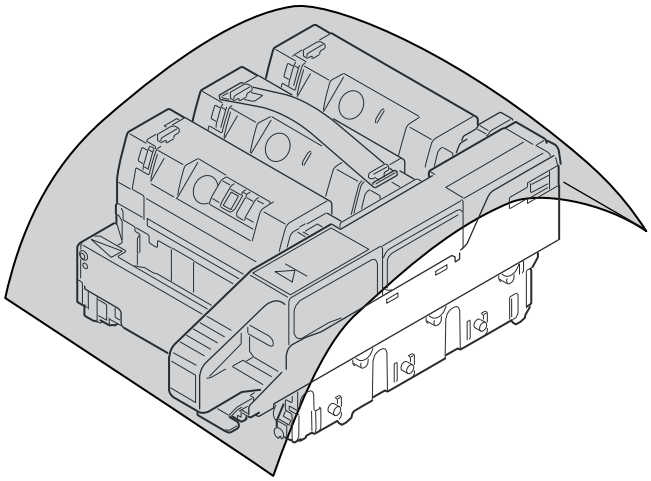
Open the device top cover
(see paragraph 5.2).

2



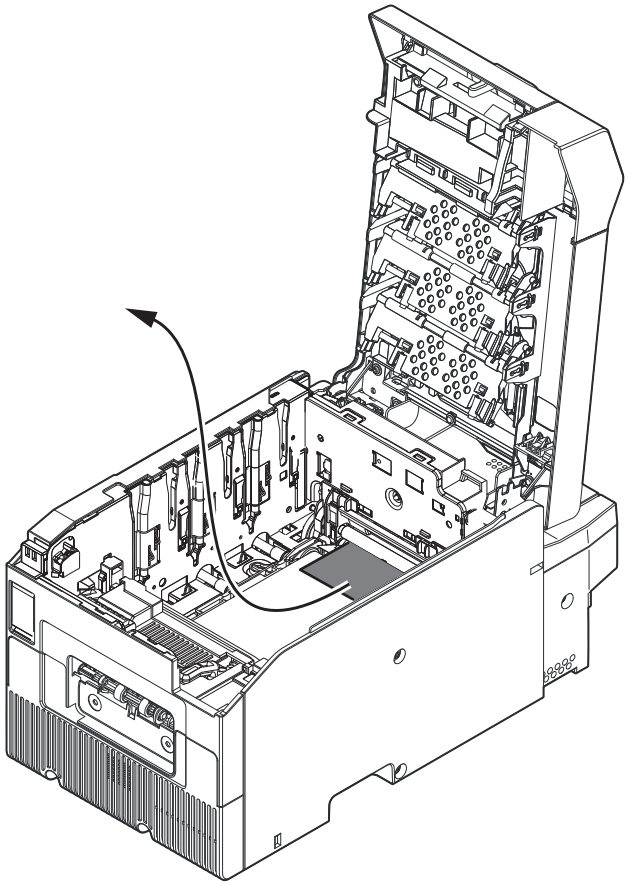
Hold the blue handle and pull out the image drum unit vertically.
Pull it out after opening the top cover fully.

3



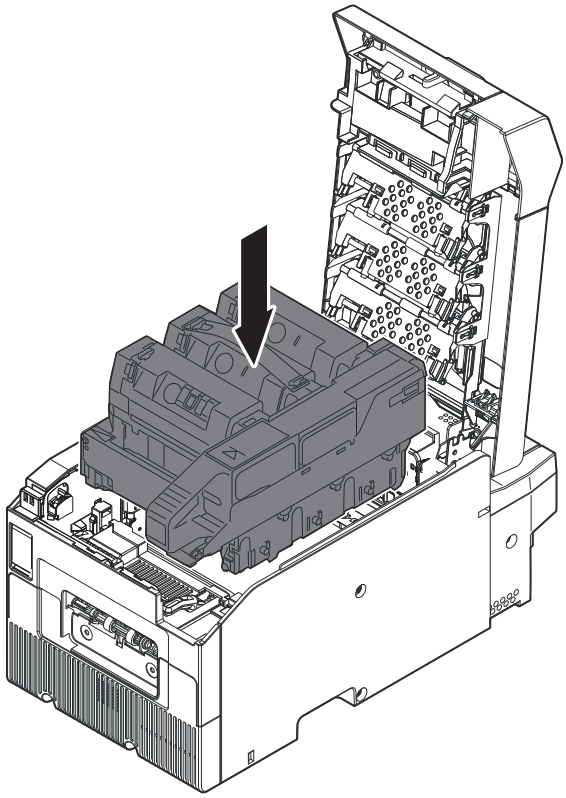
Place the image drum unit you took out on a flat surface and cover it with black paper so that the image drums are not exposed to light.

4



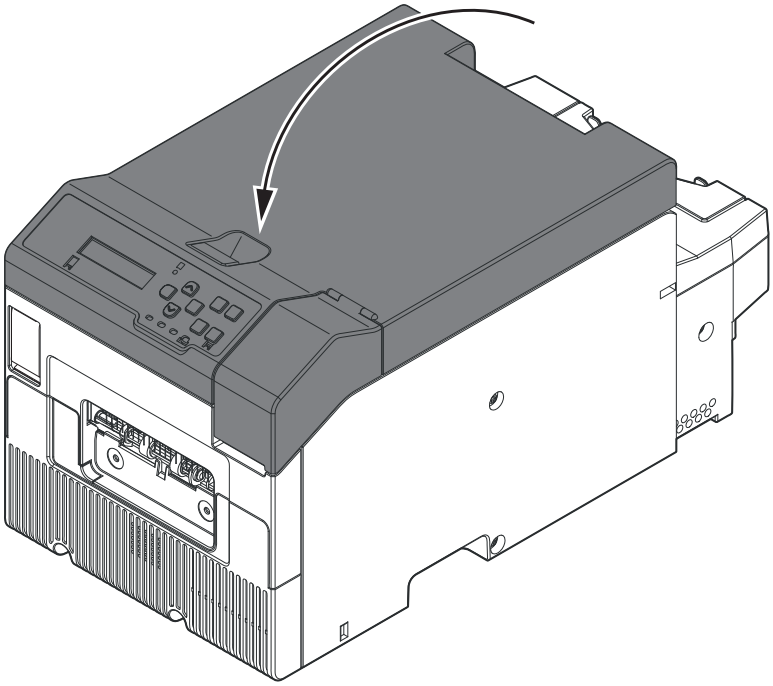
If the tip of the paper is visible, gently pull it out to the front.

5



Return the image drum unit to its original position in the machine.

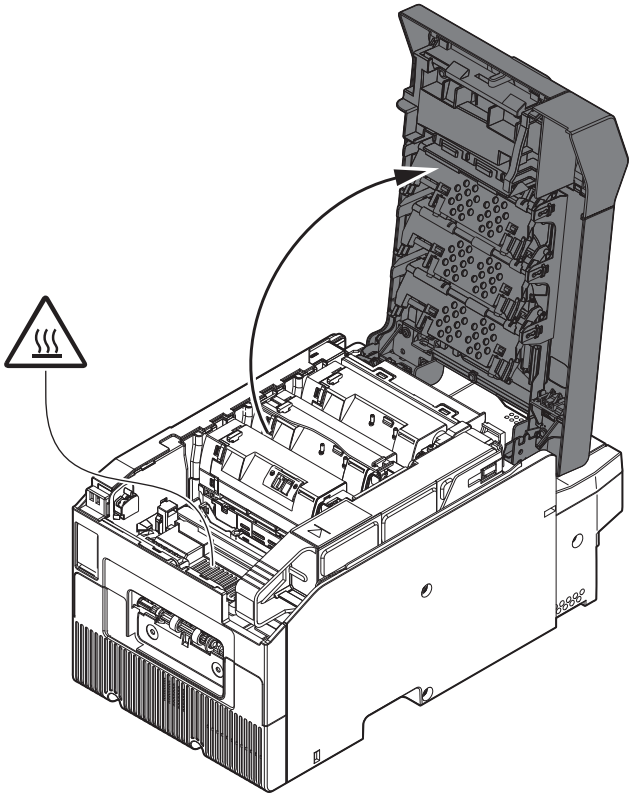
6



Close the top cover.

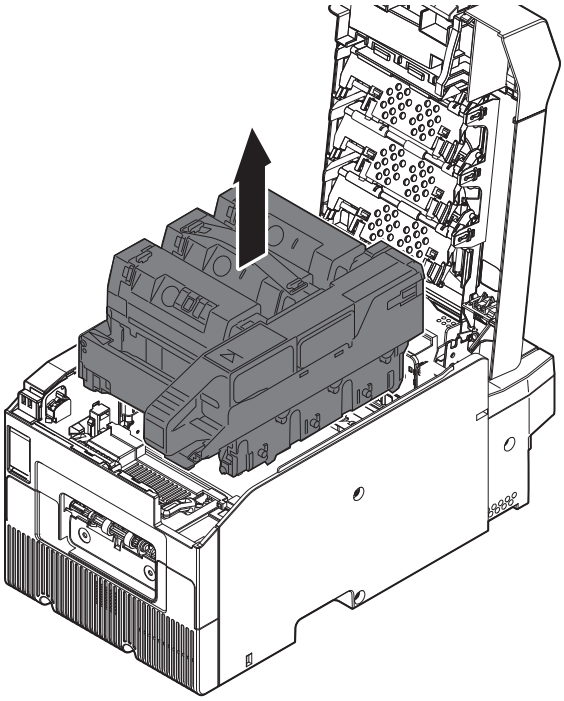
10.2 Paper jammed in the fuser unit

1



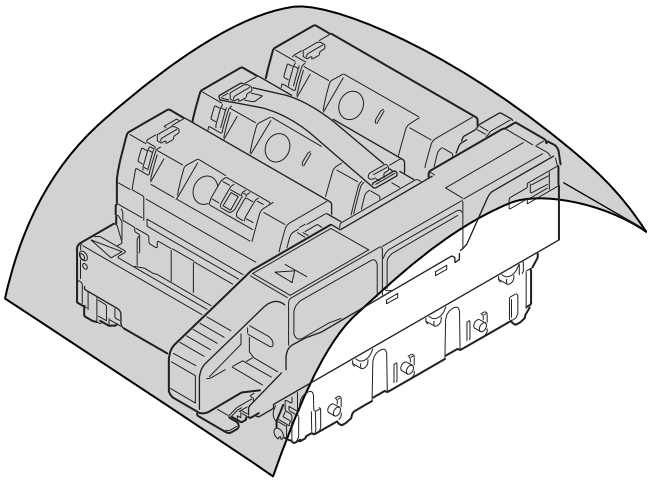
Open the device top cover
(see paragraph 5.2).

2



Hold the blue handle and pull out the image drum unit vertically.
Pull it out after opening the top cover fully.

3



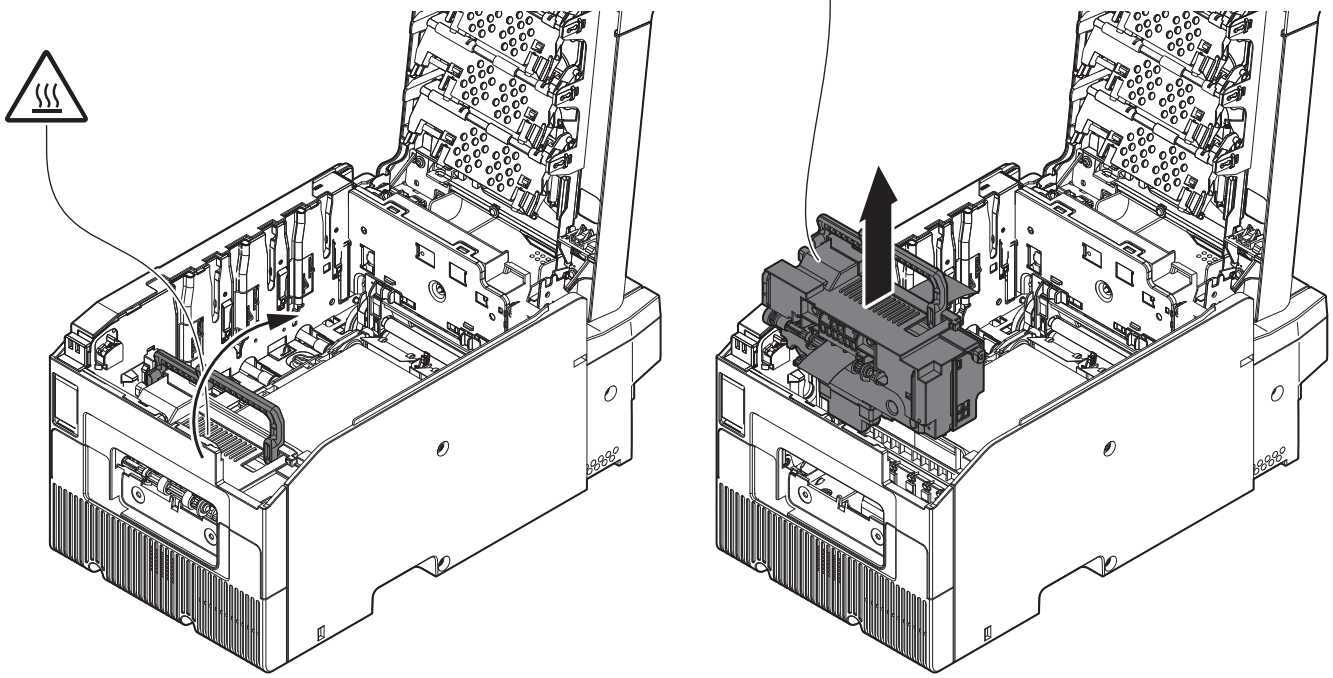
ATTENTION:
Do not expose the image drum to direct sunlight or strong light (approximately 1,500 lux or more). When leaving the image drum under room lighting for five minutes or more or leaving the top cover open, cover it with a black cloth or paper to prevent it from being exposed to light.

Place the image drum unit you took out on a flat surface and cover it with black paper so that the image drums are not exposed to light.

4

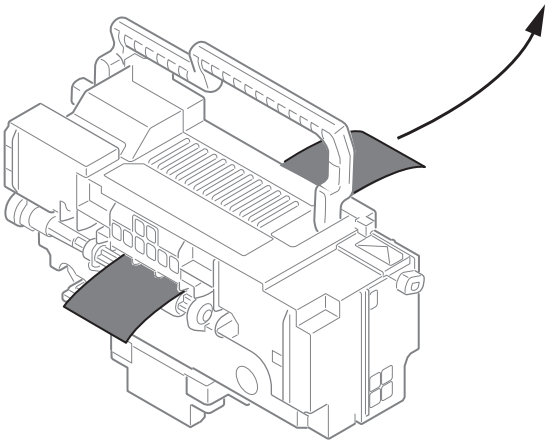
⚠ CAUTION

Since the fuser unit gets hot, carry out the operation carefully, and make sure to hold it by the handle when lifting it up. When it is hot, do not attempt to carry out the operations. Wait until it is cooled down and then carry out the operations.



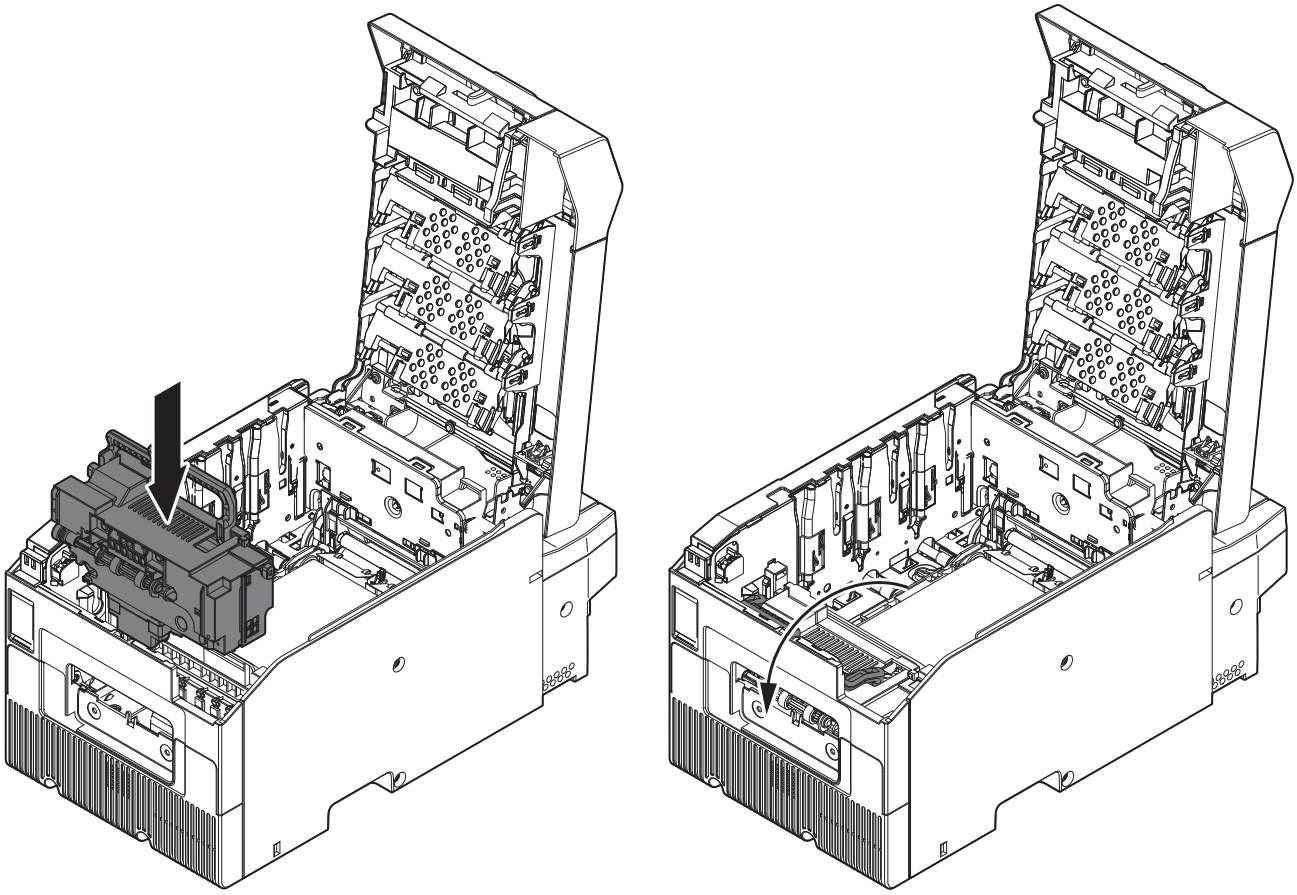
Take out the fuser unit.

5



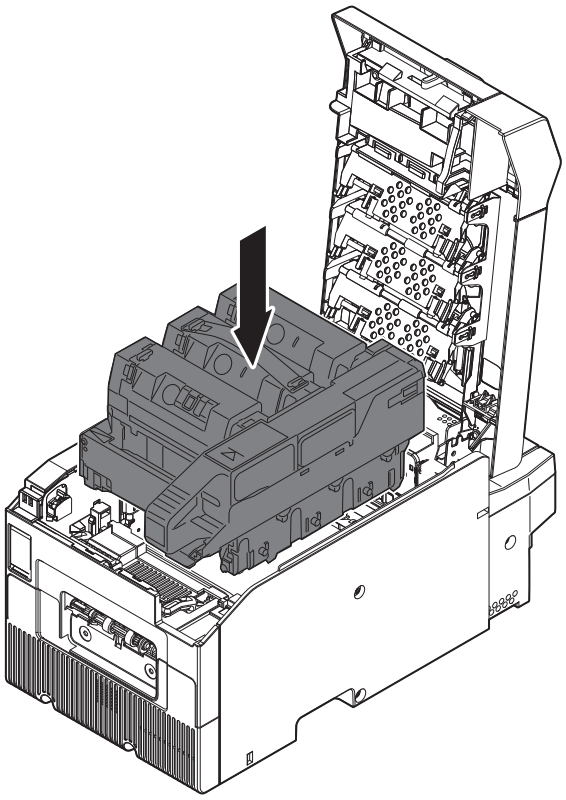
Gently pull the paper out to the back of the fuser unit
(the opposite direction from the paper feed direction).

6



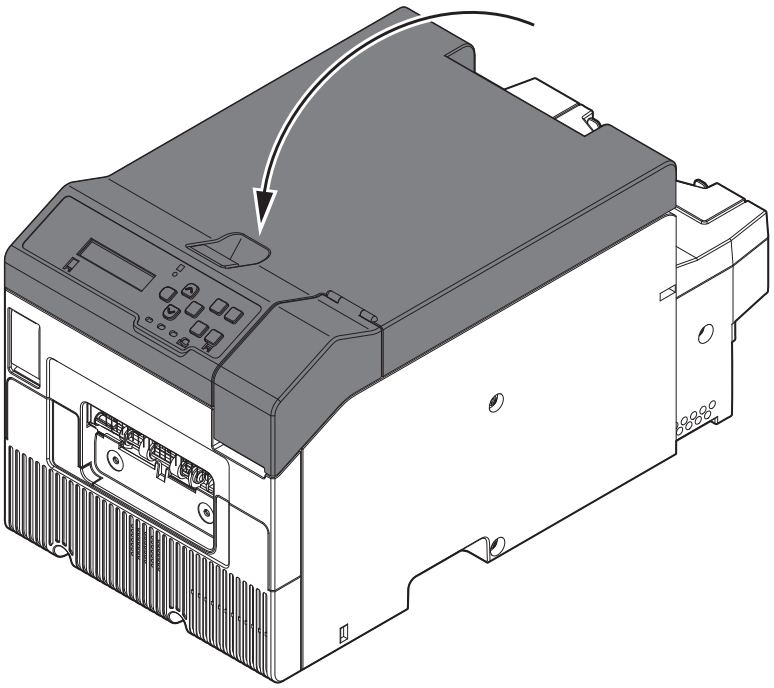
Return the fuser unit to its original position in the machine. Set it into the machine.

7



Return the image drum unit to its original position in the machine.

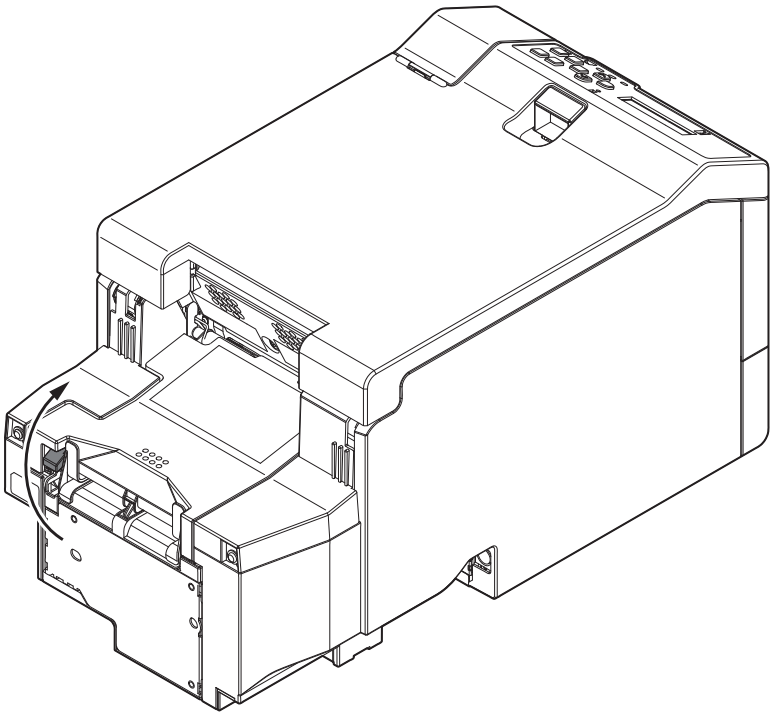
8



Close the top cover.

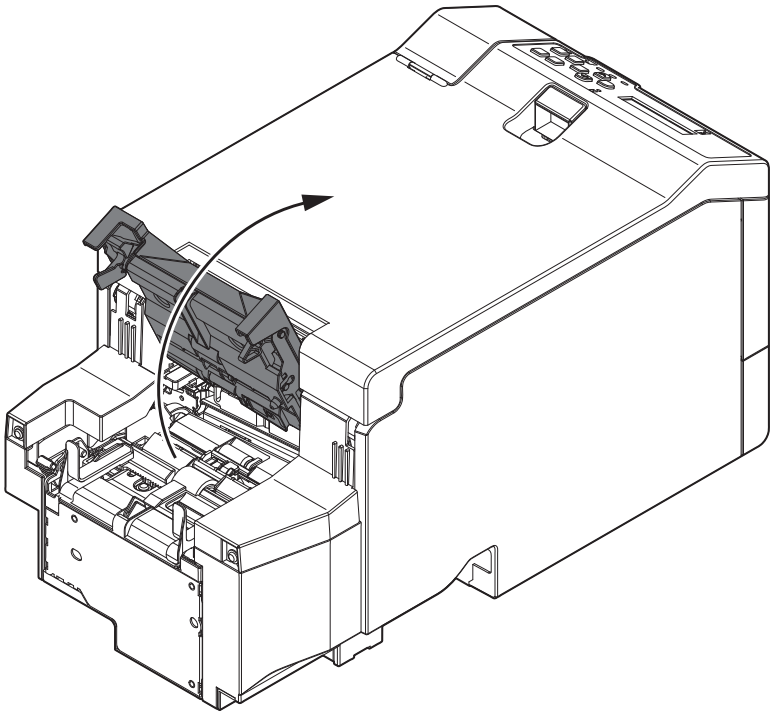
10.3 Paper jammed near the autocutter

1



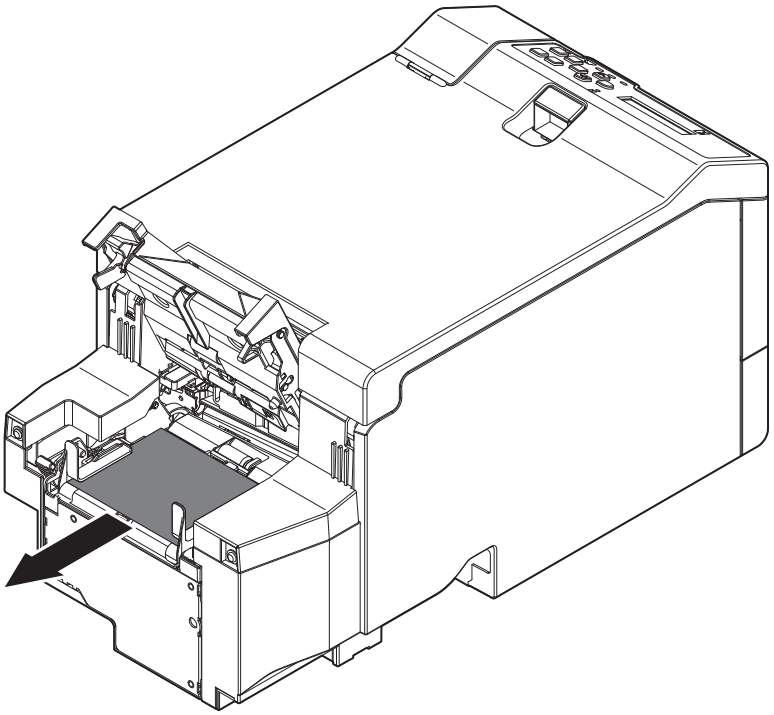
Insert your finger below the gray lever on the left and lift it up.

2



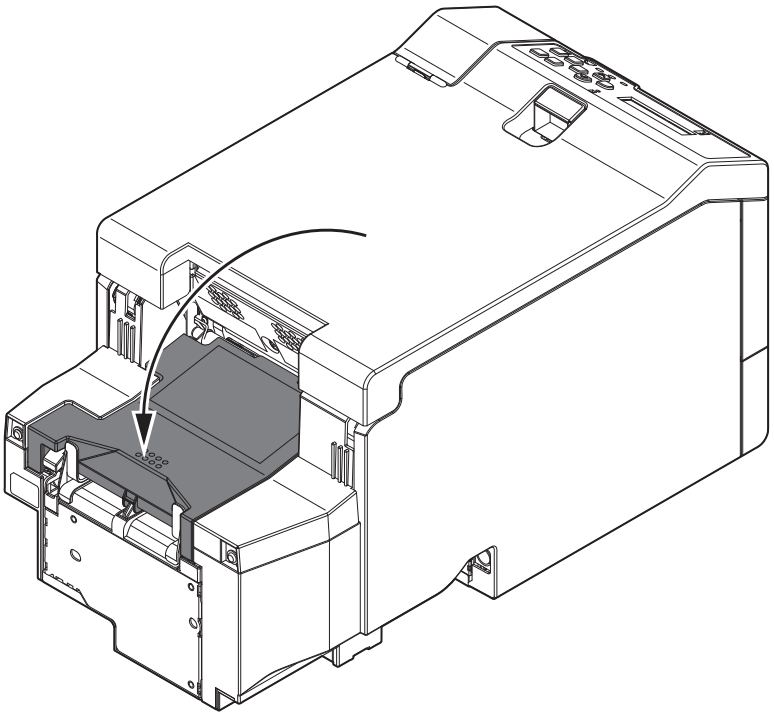
Open the feeder cover.

3



Gently pull out the jammed paper.

4

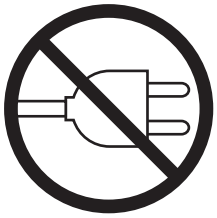


Close the feeder cover until it clicks.

10.4 Cleaning the LED head

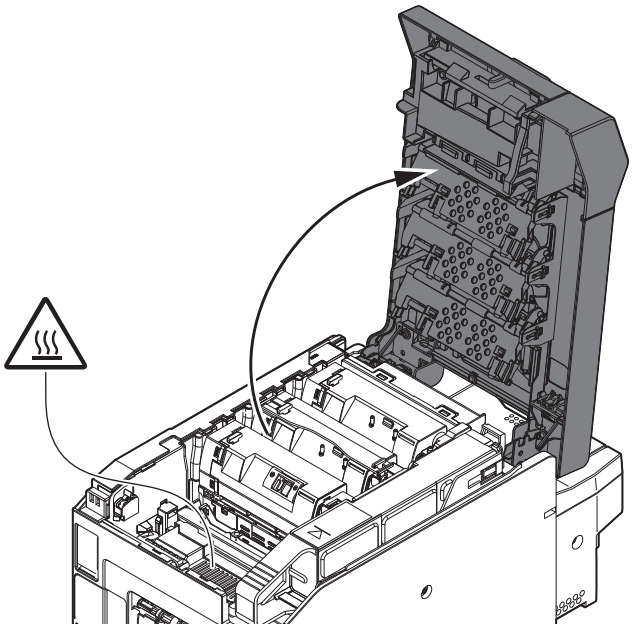
Clean the LED head if white lines or black lines appear, images are faded, or the periphery of letters are smudged in the printouts.

1



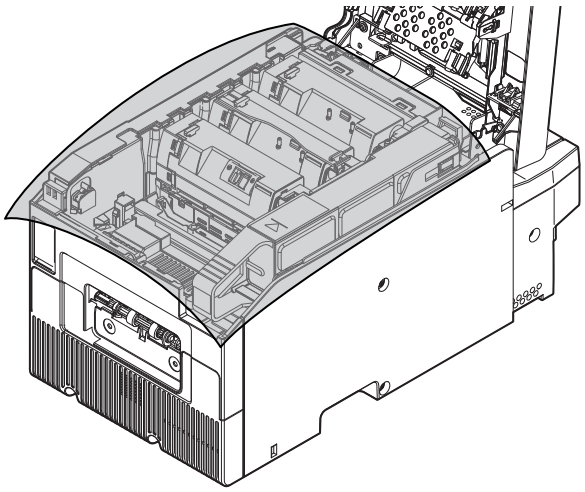
Turn the device off (see paragraph 5.9).

2



Open the device top cover
(see paragraph 5.2).

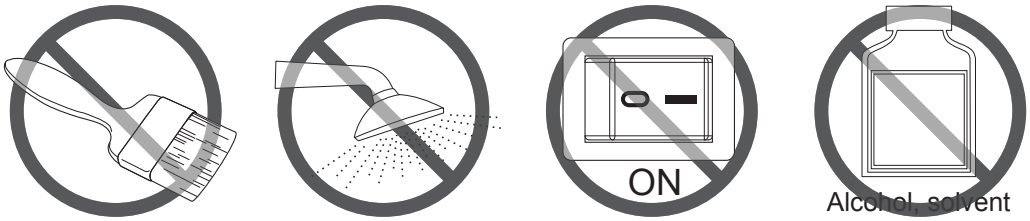
3



ATTENTION:
Do not expose the image drum to direct sunlight or strong light (approximately 1,500 lux or more). When leaving the image drum under room lighting for five minutes or more or leaving the top cover open, cover it with a black cloth or paper to prevent it from being exposed to light.

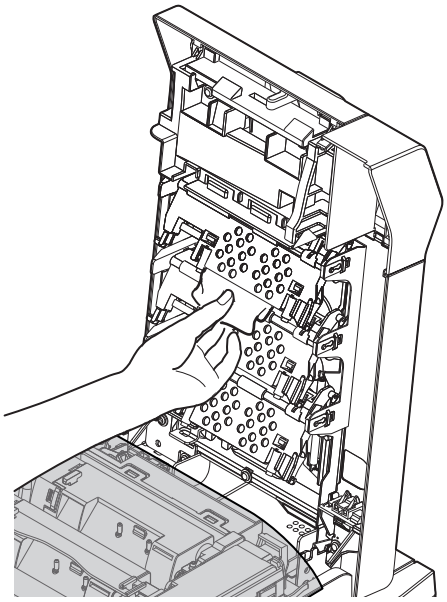
Cover the image drum unit with black paper, etc. so that it is not exposed to light.

4



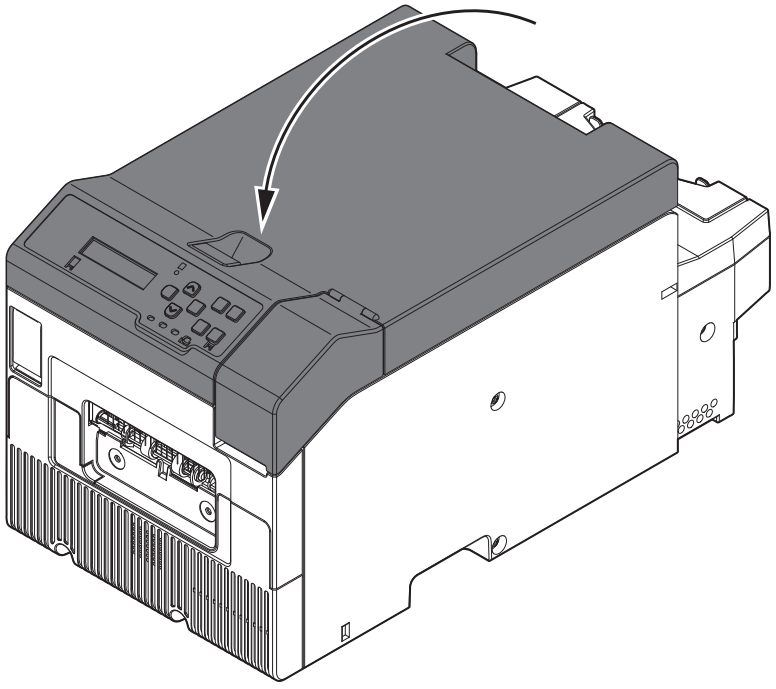
Do not use alcohol, solvents, or hard brushes.
Do not let water or other liquids get inside the machine.

5



Wipe the three lenses of the LED heads with a soft tissue lightly.

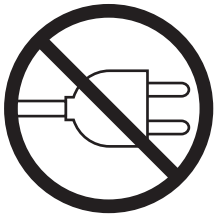
6



Remove the black paper, etc. on the image drum unit, and close the top cover.

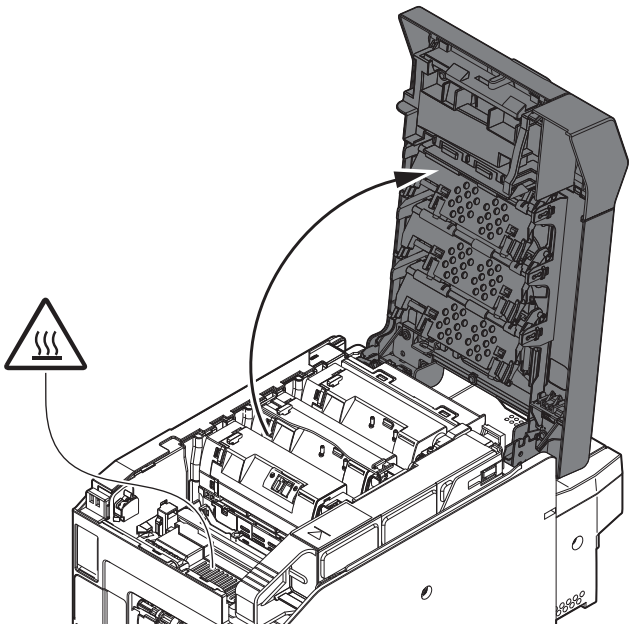
10.5 Cleaning the feed rollers

1



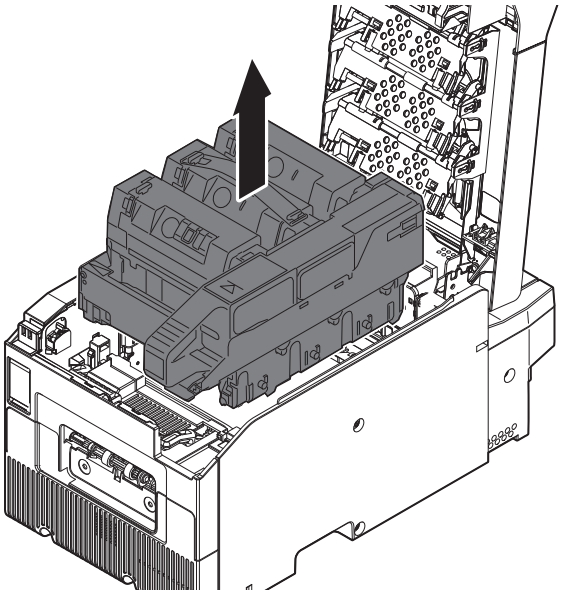
Turn the device off (see paragraph 5.9).

2



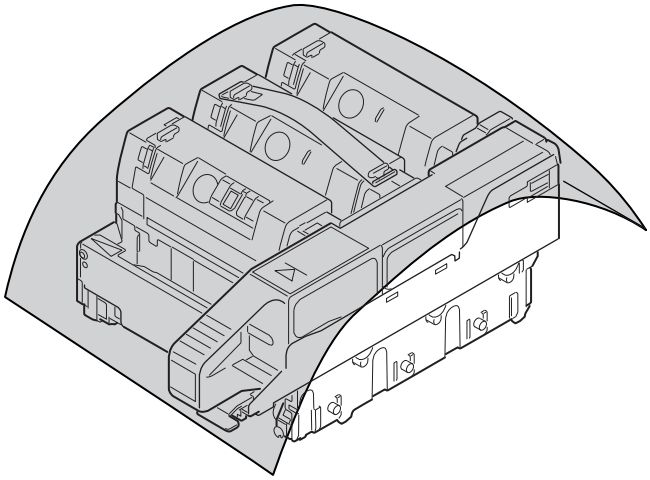
Open the device top cover
(see paragraph 5.2).

3



Hold the blue handle and pull out the image drum unit vertically.
Pull it out after opening the top cover fully.

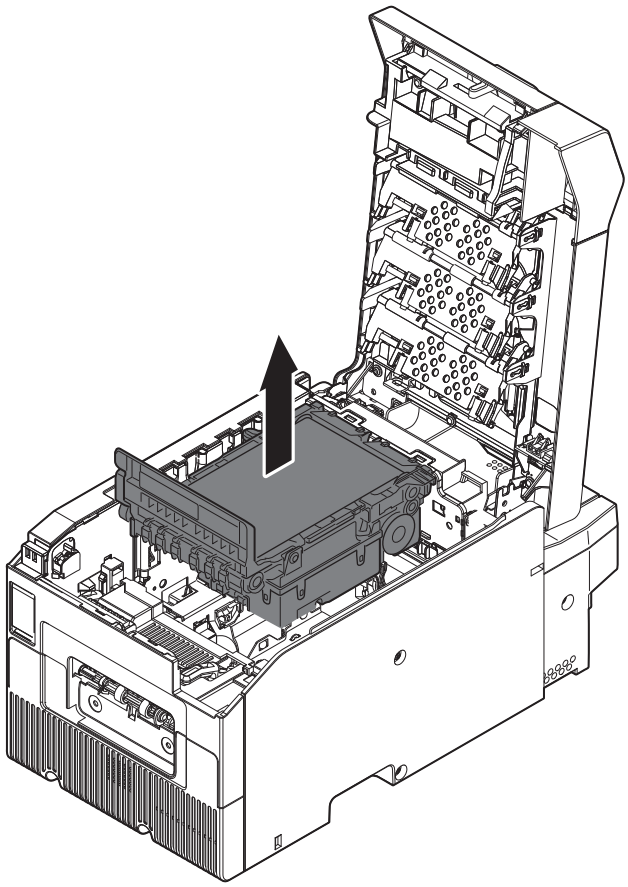
4



ATTENTION:
Do not expose the image drum to direct sunlight or strong light (approximately 1,500 lux or more). When leaving the image drum under room lighting for five minutes or more or leaving the top cover open, cover it with a black cloth or paper to prevent it from being exposed to light.

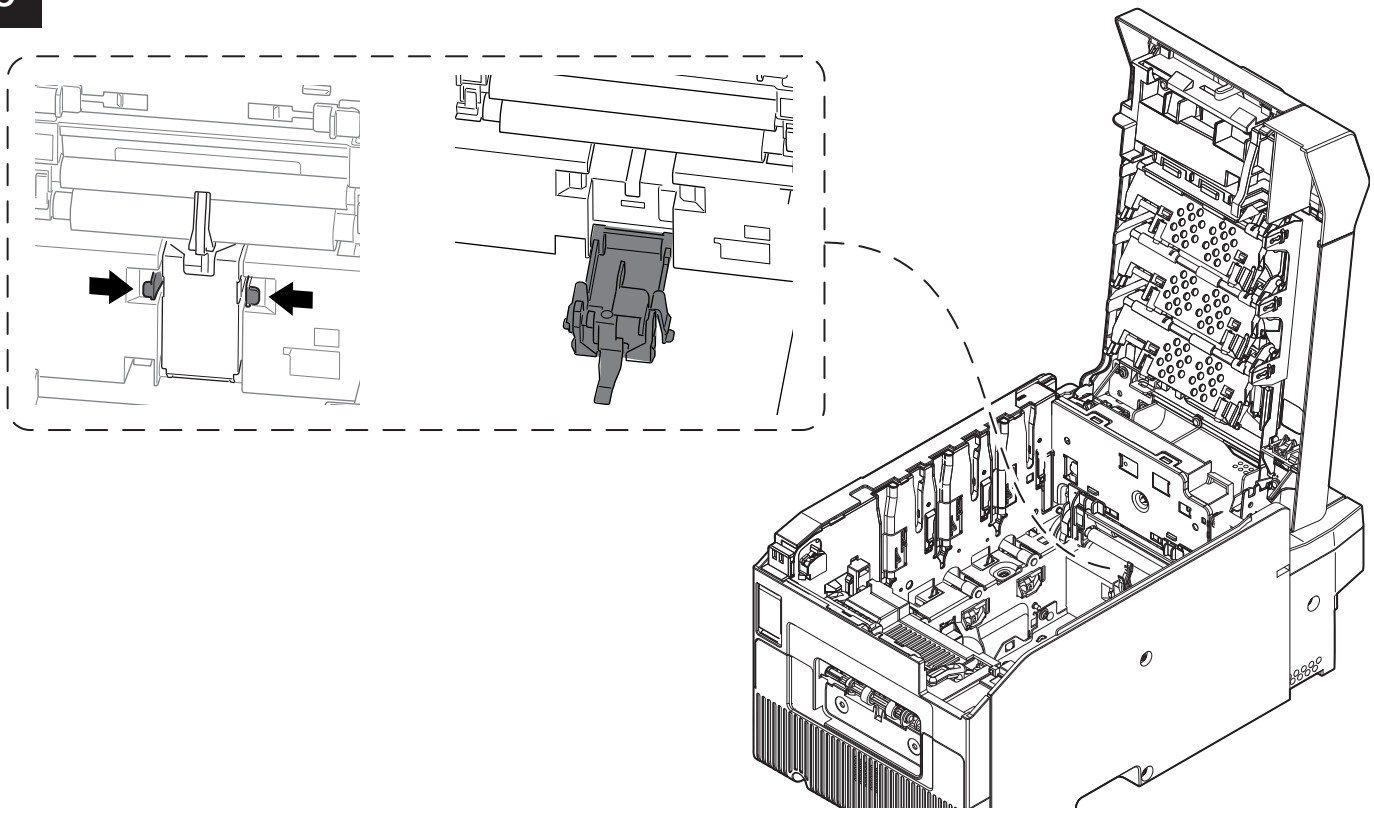
Place the image drum unit you took out on a flat surface and cover it with black paper so that the image drums are not exposed to light.

5



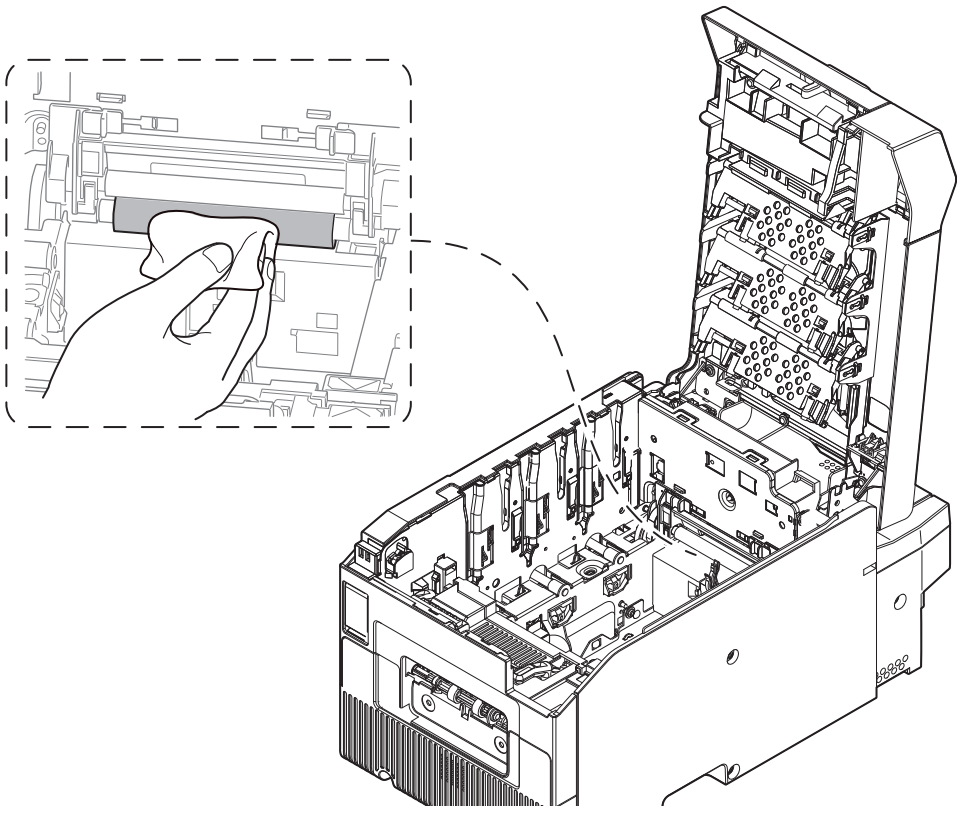
Hold the black handle of the transfer belt unit and pull it out vertically.

6



Insert your fingers in the both ends of the recess in the center bottom of the back of the machine interior and turn down the sensor lever towards yourself.

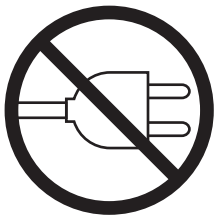
7



Wipe the feed roller with a soft cloth that has been moistened with water and then squeezed well.

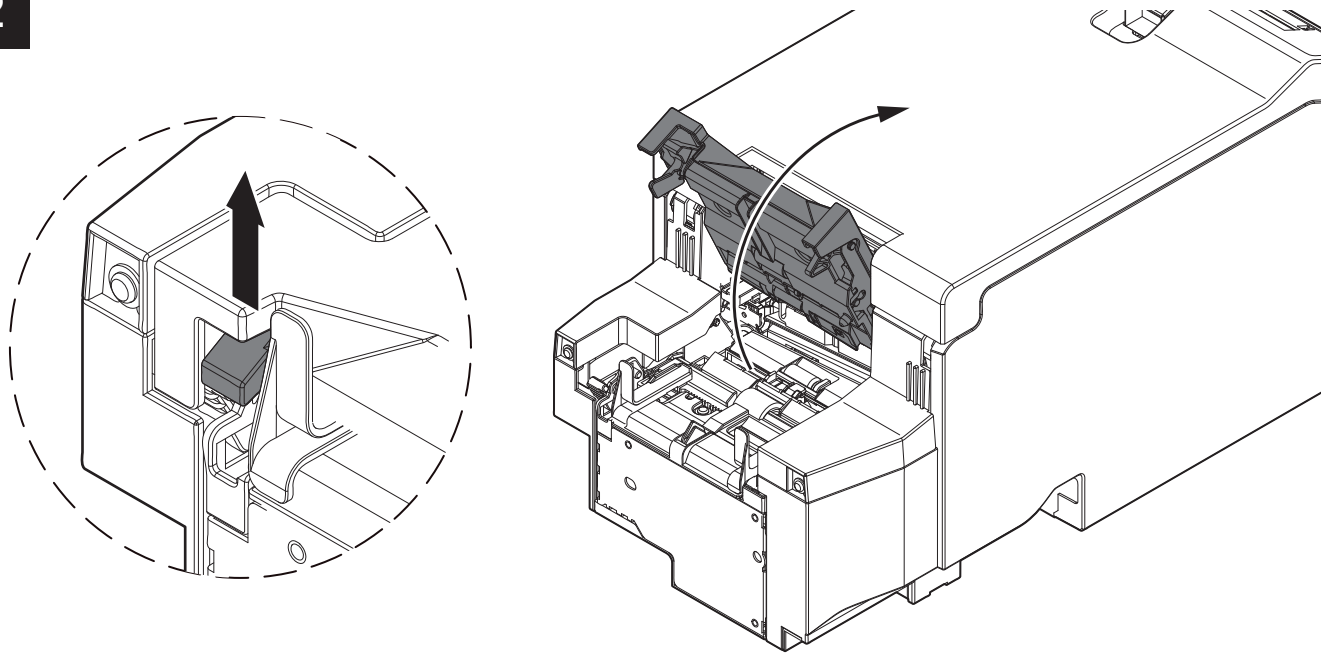
10.6 Cleaning the paper feed rollers

1



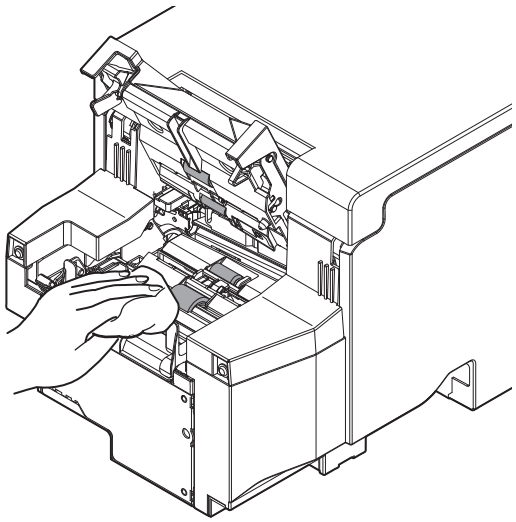
Turn the device off (see paragraph 5.9).

2



Insert your finger below the gray lever on the left, and lift it up to open the feeder cover.

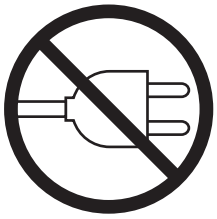
3



Wipe the paper feed roller with a soft cloth that has been moistened with water and then squeezed well.

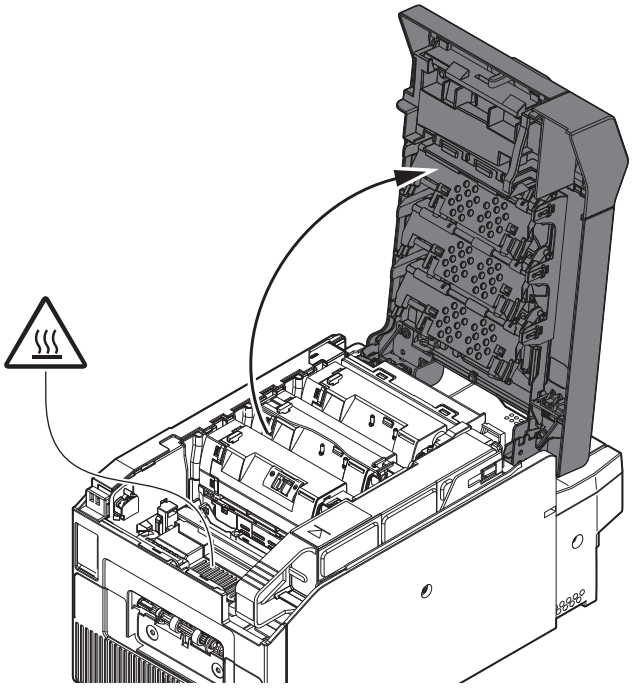
10.7 Cleaning the lightproof film

1



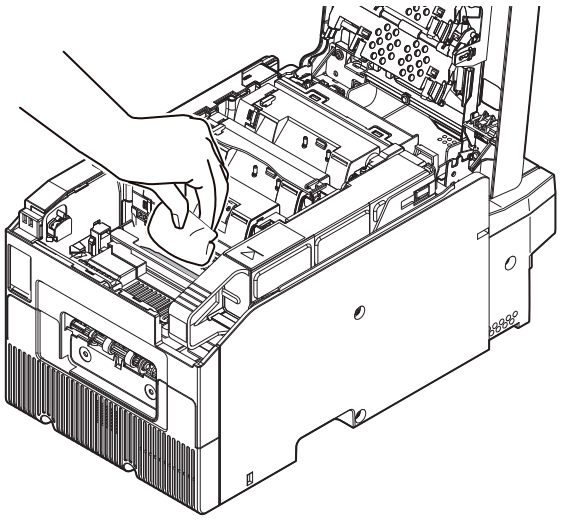
Turn the device off (see paragraph 5.9).

2



Open the device top cover
(see paragraph 5.2).

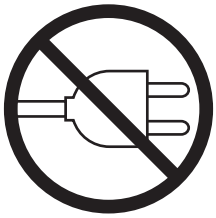
3



Wipe the lightproof film with a soft tissue paper lightly.

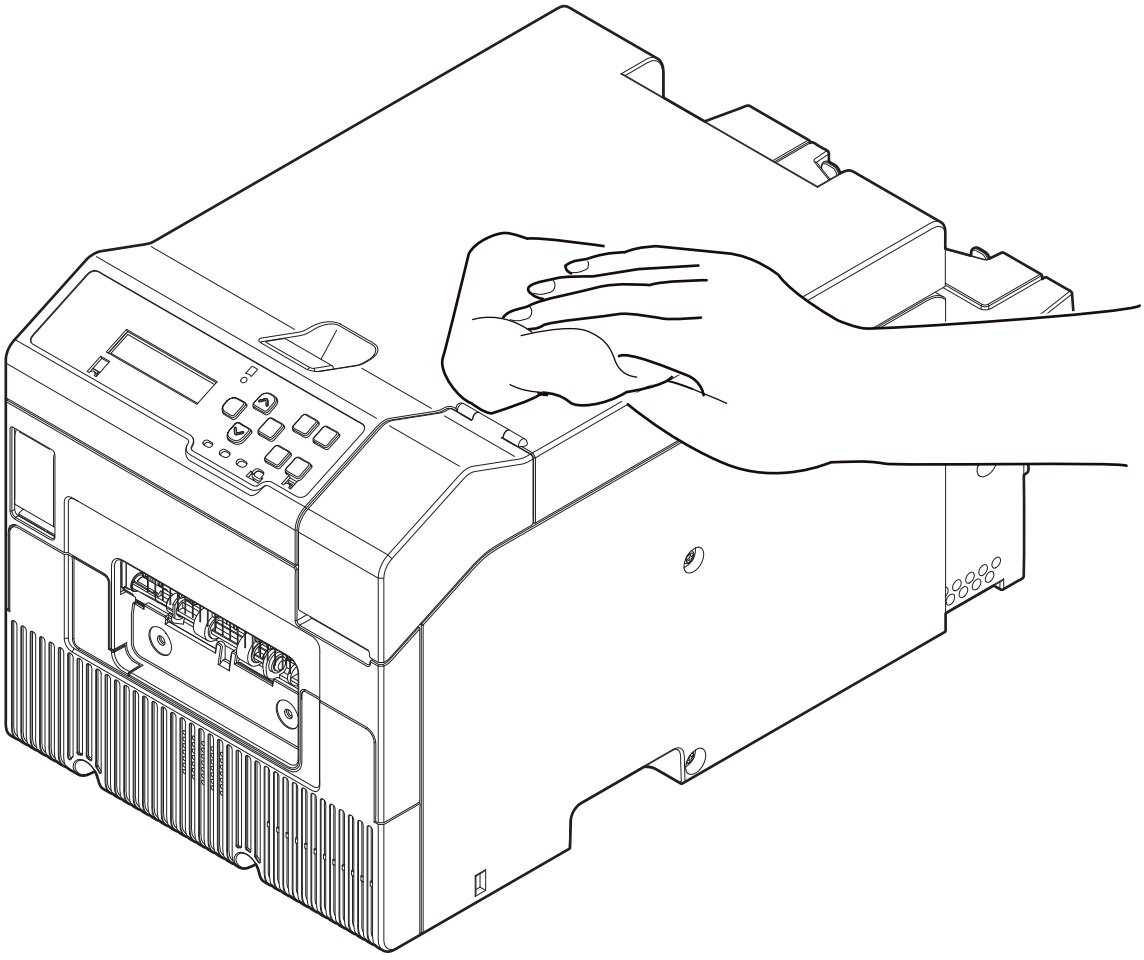
10.8 Cleaning the chassis

1



Turn the device off (see paragraph 5.9).

2



Clean the device with a soft cloth moistened with water or neutral detergent.

11 TROUBLESHOOTING

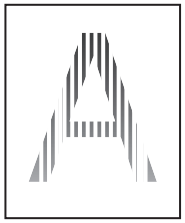
11.1 White streaks appear in the vertical direction

CAUSE	REMEDY
The LED head is dirty.	Wipe the LED head clean with a soft tissue (see paragraph 10.4).
Toner is low.	If “Replace toner” or “Toner empty” is displayed, replace the toner cartridge (see paragraph 5.4).
The lightproof film of the image drum is dirty.	Wipe the lightproof film clean with a soft tissue.
The image drum is not set correctly.	Set the image drum correctly.
Foreign material is stuck in the image drum.	Replace the image drum.

11.2 Horizontal white periodically appear in the paper feed direction

CAUSE	REMEDY
The image drum is not set correctly.	Set the image drum correctly.
The image drum is dirty.	Enable drum cleaning (see paragraph 7.1). The lifetime of the image drum is shorter when this is set to ON.
The image drum is dirty.	Replace the image drum.

11.3 The printing is faint in the vertical direction

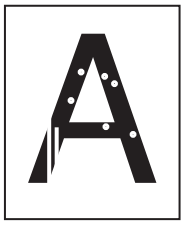


CAUSE	REMEDY
The LED head is dirty.	Wipe the LED head clean with a soft tissue (see paragraph 10.4).
Toner is low.	If “Replace toner” or “Toner empty” is displayed, replace the toner cartridge (see paragraph 5.4).

11.4 Printing is light

CAUSE	REMEDY
Toner is low.	If “Replace toner” or “Toner empty” is displayed, replace the toner cartridge (see paragraph 5.4).
The paper contains humidity.	Use paper that is stored in an environment with suitable temperature and humidity.
The paper is not suitable. The paper weight setting is not suitable.	Set Menus > Feeder config > Mediaweight to a suitable value on the operation panel or set Mediaweight to a heavier value.
The toner save mode is enabled	Set Admin menu > Print setup > Toner save to “Off” in the menu (see paragraph 9.18).

11.5 White dots and lines appear

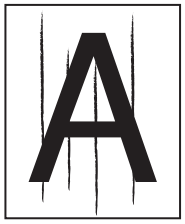


CAUSE	REMEDY
The paper contains humidity or is dry.	Use paper that is stored in an environment with suitable temperature and humidity.

11.6 Condensation occurs in the printed paper

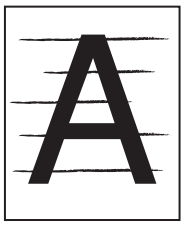
CAUSE	REMEDY
The paper contains humidity.	Use paper that is stored in an environment with suitable temperature and humidity.
The device is used in a location with high humidity or rapid changes in temperature and humidity.	Use the device in an environment with suitable temperature and humidity.

11.7 Streaks appear in the vertical direction



CAUSE	REMEDY
Toner is low.	If “Replace toner” or “Toner empty” is displayed, replace the toner cartridge (see paragraph 5.4).
The image drum is damaged.	Replace the image drum.

11.8 Dots and horizontal streaks periodically appear in the paper feed direction



CAUSE	REMEDY
If the period is approximately 63 mm, the glossy cylinder of the image drum is damaged or dirty.	Gently wipe it with a soft tissue. Replace the image drum if it is damaged.
If the period is approximately 26 mm, foreign material is attached to the electrostatic roller in the image drum.	Open and close the top cover or feeder cover, and perform printing again.
The image drum has been exposed to light.	Return the image drum to the inside of the device and do not use the device for several hours. If this does not solve the problem, replace the image drum.

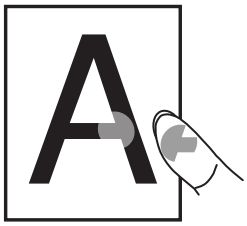
11.9 White background areas are faintly dirty

CAUSE	REMEDY
The paper has an electrostatic charge.	Use paper that is stored in an environment with suitable temperature and humidity.
Heavy paper is being used.	Use lighter paper.
Toner is low.	If “Replace toner” or “Toner empty” is displayed, replace the toner cartridge (see paragraph 5.4).

11.10 Bleeding occurs around text

CAUSE	REMEDY
The LED head is dirty.	Wipe the LED head clean with a soft tissue (see paragraph 10.4).
The paper contains humidity.	Replace the paper with new paper.

11.11 Toner comes off when rubbed

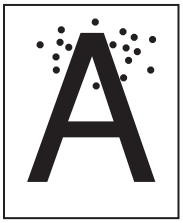


CAUSE	REMEDY
The paper weight setting is not suitable.	Set Menus > Feeder config > Mediaweight to a suitable value on the operation panel or set Mediaweight to a heavier value.

11.12 Gloss is uneven

CAUSE	REMEDY
The paper weight setting is not suitable.	Set Menus > Feeder config > Mediaweight to a suitable value on the operation panel or set Mediaweight to a heavier value.

11.13 Black dots or white dots appear



CAUSE	REMEDY
If the period is approximately 63 mm, the glossy cylinder of the image drum is damaged or dirty.	Gently wipe the image drum with a soft tissue. Replace the image drum if it is damaged.

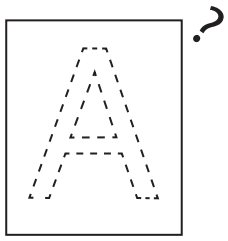
11.14 Dirt is printed

CAUSE	REMEDY
The paper contains humidity.	Replace the paper with new paper.

11.15 The entire page is printed in black

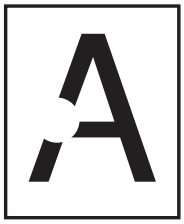
CAUSE	REMEDY
The device may have failed.	Contact your dealer.

11.16 Nothing is printed



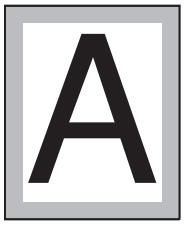
CAUSE	REMEDY
The device may have failed.	Contact your dealer.

11.17 Parts of the image are missing



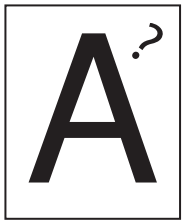
CAUSE	REMEDY
The paper contains humidity.	Replace the paper with new paper.

11.18 The area around the image is dirty



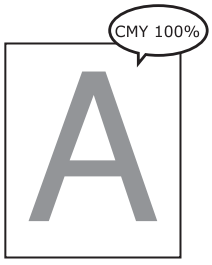
CAUSE	REMEDY
The image is not reduced to a ratio that matches the paper size.	Reduce the image to a ratio that matches the paper size.

11.19 The colors of the image are unexpected



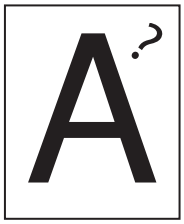
CAUSE	REMEDY
Toner is low.	If “Replace toner” or “Toner empty” is displayed, replace the toner cartridge (see paragraph 5.4).
The toner adjustment was changed.	The toner adjustment was changed. Perform color matching from the printer driver (see paragraph 9.17).
The color balance has not been adjusted.	Select “Calibration” in the menu, and execute “Adjust density” or “Cyan tuning”, “Magenta tuning” or “Yellow tuning” (see paragraph 7.10 or paragraph 7.11).
Color shift has not been adjusted.	Open and close the top cover or execute Calibration > Adjust registration on the menu.
“Replace mono barcode with cyan” is enabled.	From the “Setup” tab, go to Barcode correction > Options and deselect “Replace mono barcode with cyan” (see paragraph 9.16).

11.20 The black of CMY 100% is light



CAUSE	REMEDY
“CMY100% density” is set to “Enable”.	Set Admin menu > Color menu > CMY100% density to “Enable” on the menu.

11.21 The precision of the barcode reading is low



CAUSE	REMEDY
The color of barcodes/two-dimensional barcodes is light.	Disable the toner save function if it is enabled (see paragraph 9.18). If the remaining toner is low, replace the toner cartridge (see paragraph 5.4).
Barcodes/two-dimensional barcodes are printed in a color that is difficult to scan.	Create barcodes/two-dimensional barcodes in cyan (RGB 0,255,255), and set the color setting of the printer driver to “Automatic” for printing (see paragraph 9.16).
Small barcodes/two-dimensional barcodes are printed in black.	If the size of the barcodes/two-dimensional barcodes to print can be changed, increase the size for printing. If the color can be set for barcodes/two-dimensional barcodes in the application, set the color to cyan (RGB 0,255,255), and set the color setting of the printer driver to “Automatic” and perform printing (see paragraph 9.16). If the color of barcodes/two-dimensional barcodes is fixed to black, select “Replace mono barcode with cyan” in “Barcode Correction” and perform printing (see paragraph 9.16).
Bars are thick.	Disable “Adjust ultra fine lines” in “Advanced” in the printer driver. If the bar width can be adjusted in the application, set a bar width that is narrower than the width of the space, and perform printing. If the bar width cannot be adjusted in the application, set a narrower bar width in “Bar Width Adjustment” in “Barcode Correction” and perform printing (see paragraph 9.16). If the bar width cannot be adjusted in the application and the printer driver is not used, set a narrower bar width in Admin setup > Print setup > Barcode adjust in the panel settings of the device and perform printing (see paragraph 9.16).

11.22 USB connection problems

SYMPTOM	CAUSE/SOLUTION
An icon for the device is not created in “Devices and Printers”.	The printer driver is not installed correctly. Correctly reinstall the printer driver (see paragraph 4.4).
An error message such as “Failed to install the printer driver” is displayed.	Use plug-and-play. Follow the procedure indicated below: • Make sure that the device and the computer are turned off. • Connect a USB cable. • Turn on the device. • Turn on the computer. • When “Found New Hardware Wizard” is displayed, follow the instructions on the screen to execute setup.

11.23 Printer driver and utilities problems

SYMPTOM	CAUSE/SOLUTION
The “User Account Control” screen is displayed.	The “User Account Control” screen may be displayed when starting the installer or a utility. Click YES or CONTINUE to execute the installer or utility as an administrator. If you click NO the installer or utility is not started.
The “Program Compatibility Assistant” screen is displayed.	If the “Program Compatibility Assistant” dialog box is displayed after installation is complete (including when the installation is stopped before it is complete), make sure to click THIS PROGRAM INSTALLED.

11.24 The device does not operate

CAUSE	REMEDY
The power cord is not inserted properly.	Insert the power cord fully.
This device is not turned on.	Turn the device on (see paragraph 5.8).

11.25 Nothing is displayed on the screen when the power is turned on

CAUSE	REMEDY
The power cord is disconnected.	Insert the power cord fully.
A power failure has occurred.	Check whether power is supplied to the outlet.

11.26 Printing does not start

CAUSE	REMEDY
An error is displayed.	Check the error code and follow the on-screen instructions (see paragraph 3.9).
The LAN cable/USB cable is not inserted.	Insert the LAN cable/USB cable fully (see paragraph 4.2 or paragraph 4.3).
There is a problem with the LAN cable/ USB cable.	Use another LAN cable/USB cable.
The LAN cable/USB cable does not match the required standard.	Use a cable that conforms to the USB 2.0 standard. Use a cable that conforms to the Ethernet 10BASE-T/100BASE-TX standard.
There may be a problem with the print function.	Execute “Print Info” > “Configuration” on the operation panel to print the settings, and check the print performance (see paragraph 6.5).
The communication protocol is disabled.	Select “Admin Setup” > “Network Setup” in the menu, and enable the communication protocol that is used.
The printer driver is not selected.	Set the printer driver as the default printer.
The output port of the printer driver is incorrect.	Specify the output port where the LAN cable/USB cable is connected.
The device is warming up to recover from the Power Save mode or Sleep mode.	Lengthen the time until the device enters the Power Save mode or Sleep mode. Select “Menus” > “System Adjust” > “Pow Save Time” or “Sleep Time” on the operation panel, and set an appropriate time.
The image drum cleaning operation may be executing.	Wait until the device finishes.
The temperature of the fuser is being adjusted.	Wait until the device finishes.
Data is being processed from another interface.	Wait until the printing process is complete.

11.27 Print data is not sent

CAUSE	REMEDY
The LAN cable/USB cable is damaged.	Connect a new cable.
The computer has timed out.	Set a longer timeout period.

11.28 An abnormal smell is emitted

CAUSE	REMEDY
The device is not level.	Install the device in a flat and stable location.
Paper waste or foreign material is inside the device.	Inspect the inside the device and remove the material.

11.29 A resonant sound is emitted

CAUSE	REMEDY
Printing is being performed on heavy paper, etc. when the internal temperature of the device has risen.	This is not a problem with the device. Keep using the device as it is.

11.30 Printing stops before it is complete

CAUSE	REMEDY
Temperature adjustment is being performed because the internal temperature of the device has risen due to continuous printing over a long period, etc.	Wait until the device finishes. Printing will automatically resume when the temperature of the device is suitable.
The temperature of the fuser is being adjusted.	Wait until the device finishes.

11.31 Memory runs out

CAUSE	REMEDY
The print data is complex.	Use simpler print data.

11.32 Printing is slow

CAUSE	REMEDY
Printing is also being processed on the computer.	Use a computer with a faster processing speed.
Select “Fine / Detail (1200 x 1200 dpi)” in “Quality” on the “Setup” tab of the printer driver.	Select “Normal (600 x 600 dpi)” or “Draft (600 x 600 dpi)” in “Quality” on the “Setup” tab of the printer driver.
The print data is complex.	Use simpler print data.

11.33 The power turns off automatically

CAUSE	REMEDY
If the device is not used for a certain period of time (4 hours by default), it automatically turns off.	To prevent the power from turning off, set “Admin setup” > “Power setup” > “[Auto Pw Off” to “Disable” on the operation panel.

11.34 Paper jam frequently occurs

CAUSE	REMEDY
The device is not level.	Install the device in a flat and stable location.
The paper is too light or too heavy.	The paper is too light or too heavy. Use paper that is suitable for the device.
The paper contains humidity or has an electrostatic charge.	Use paper that is stored in an environment with suitable temperature and humidity.
The paper is wrinkled or warped.	Use paper that is suitable for the device. If the paper is warped, fix it.
The paper is not loaded straight.	Align the paper guide with the paper.

11.35 The device does not recover when the paper jam is removed

CAUSE	REMEDY
The device may not recover unless the top cover or feeder cover is opened and closed.	Open and close the top cover or feeder cover.
The combination of the cut type setting and paper sensor position of the device does not match.	Change the position of the top sensor and bottom sensor so that they do not overlap if their positions were matching. Change the position of the top sensor and bottom sensor so that they match if they were not overlapping.

11.36 The paper curls or wrinkles

CAUSE	REMEDY
The paper contains humidity or has an electrostatic charge.	Use paper that is stored in an environment with suitable temperature and humidity.
Light paper is being used.	Set “Menus” > “Feeder Config” > “Mediaweight” to a lighter value on the operation panel.

11.37 Paper gets stuck in the roller of the fuser

CAUSE	REMEDY
The paper weight setting is not suitable.	Set “Menus” > “Feeder Config” > “Mediaweight” to a suitable value on the operation panel or set “Mediaweight” to a heavier value.
Light paper is being used.	Use heavier paper.
There is an area near the tip of the paper that is almost completely printed.	Try adding a margin to the paper tip.

11.38 Paper sticks to the belt unit

CAUSE	REMEDY
Light paper or weak paper is being used.	Use heavier paper.

11.39 Paper corner are folded

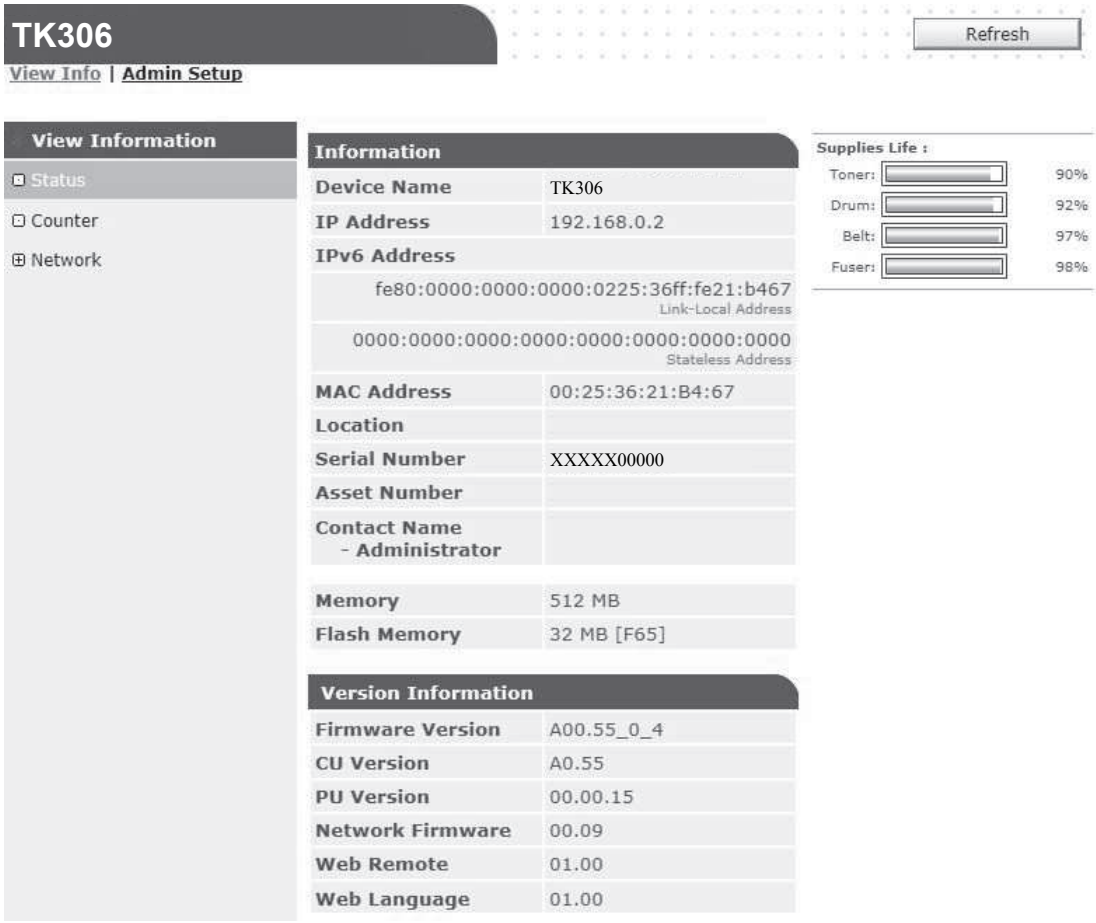
CAUSE	REMEDY
The paper is curled.	The paper is curled. Use paper that is stored in an environment with suitable temperature and humidity.

12 WEB PAGE

The Web Page configures the network settings of the device.
Connect the device to the Internet (see paragraph 4.2) and start installing.

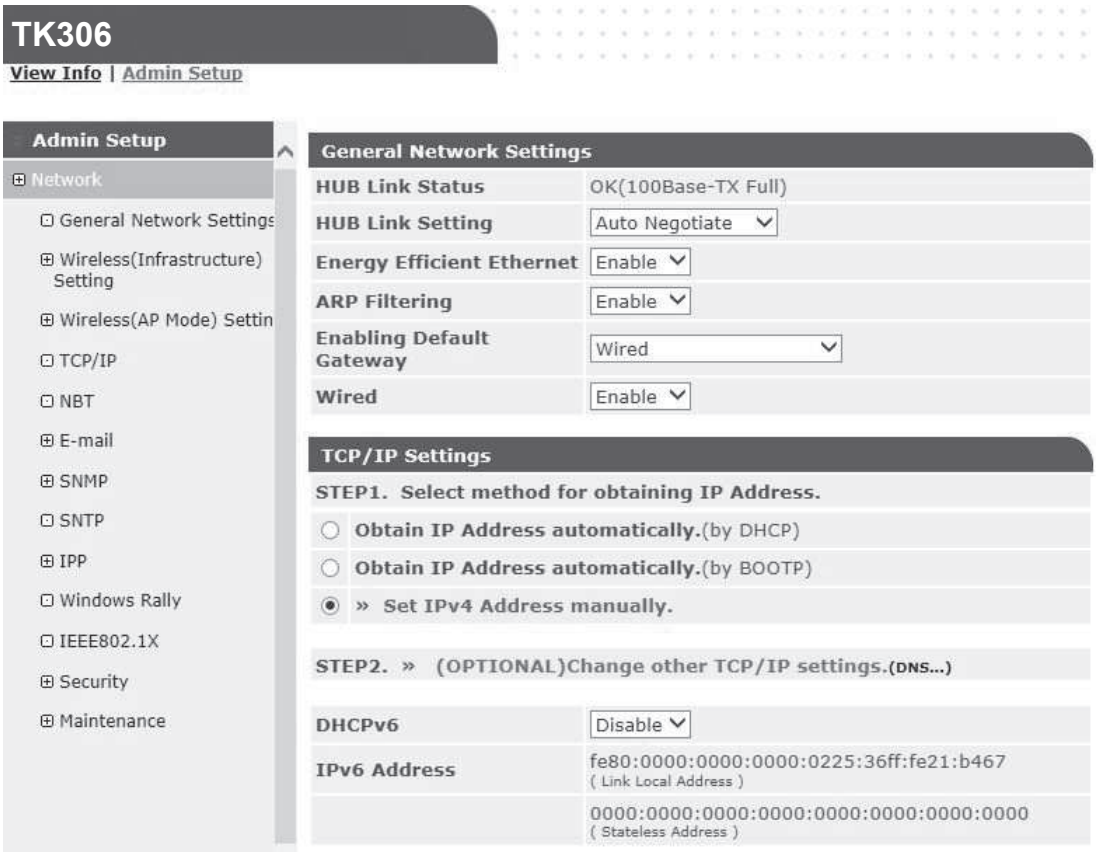
The Web Page is divided into two tabs listed below.

The “View Info” Tab displays the most important information about the device such as the status of the device, the warnings and the information on the network settings.



ITEM	DESCRIPTION
Status	Displays the current status of the machine. Displays warnings and errors that have occurred in the machine. Also enables you to check the operation status of the network services, a list of the machine information and the IP address set in the machine.
Counter	Displays the print count.
Network	Enables you to check information on the network settings, such as the general information, TCP/IP status and maintenance information.

The “Admin Setup” Tab is displayed when you are logged in to the machine as an administrator and displays the network configuration.



ITEM		DESCRIPTION
General Network Settings		Configures the network connection method.
TCP/IP		Configures information regarding TCP/IP.
NBT		Configures information regarding NetBIOS over TCP.
E-mail		Configures e-mail notifications for errors that have occurred in the machine, etc
SNMP	Setting	Configures SNMP.
	Trap	Configures SNMP Trap.
SNTP		Configures SNTP.
IPP		Configures information regarding IPP printing.
Windows Rally		Configures information regarding Windows Rally.
IEEE802.1X		Configures information regarding IEEE802.1X/EAP.

Security	Protocol ON/OFF	Disables network protocol and network services that are not used.
	IP Filtering	Restricts access via TCP/IP. Also supports access from outside the company. However, this function requires knowledge regarding IP addresses. Incorrect settings may lead to serious trouble, such as becoming unable to access the machine from the network.
	MAC Address Filtering	Restricts access by MAC address. Also supports access from outside the company. However, this function requires knowledge regarding MAC addresses. Incorrect settings may lead to serious trouble, such as becoming unable to access the machine from the network.
	Encryption (SSL/TLS)	Enables communication between the computer (client) and the machine to be encrypted.
	IPSec	Enables communication between the computer (client) and the machine to be encrypted and modification to be prevented.
	Web Page Authentication Method	Configures the Web Page authentication method.
Maintenance	Restart/Initialize	Restarts or initializes the network. When the network is restarted, the Web page is not displayed from a Web browser until the restart process is complete. When the network is initialized, information that has been set manually is lost because the IP address is initialized. The Web page also cannot be displayed.
	Network Scale	This setting enables the machine to operate on the network more efficiently. When using a hub with the spanning tree function, this setting is effective if the machine is connected to a computer via a cross cable.

12.1 Starting the Web Page

Set the security of your browser to the medium level or enable cookies.
You must log in as the administrator to change the settings of the machine via the Web page.

Proceed as follows:

- Start the Web browser.
- Enter the URL (“http:///(IP address of the machine)”) in the address bar, and press the ENTER key. For information on checking the IP address of the machine, see paragraph 6.5.

ATTENTION:
When including a one digit or two digit number in the IP address, do not enter zeros before the number. Doing so may prevent communication from being performed correctly.

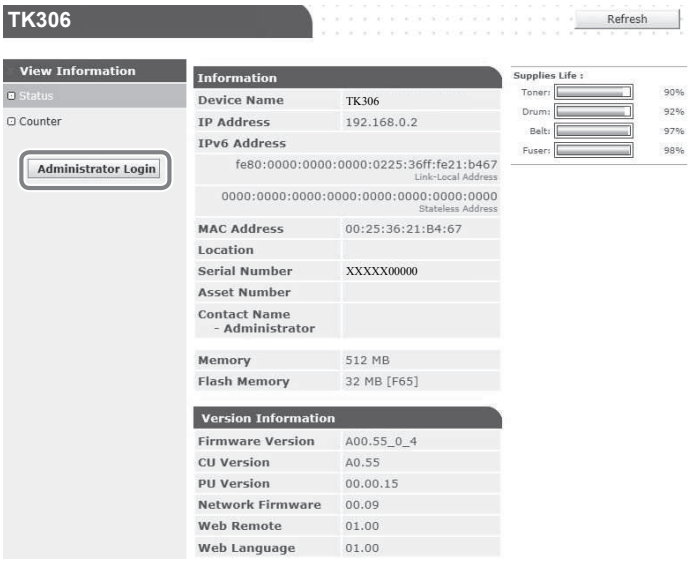
- Correct: http://192.168.0.2/
- Incorrect: http://192.168.000.002/.

12.2 Logging in as the administrator

You must log in as the administrator to change the settings of the machine via the Web page.

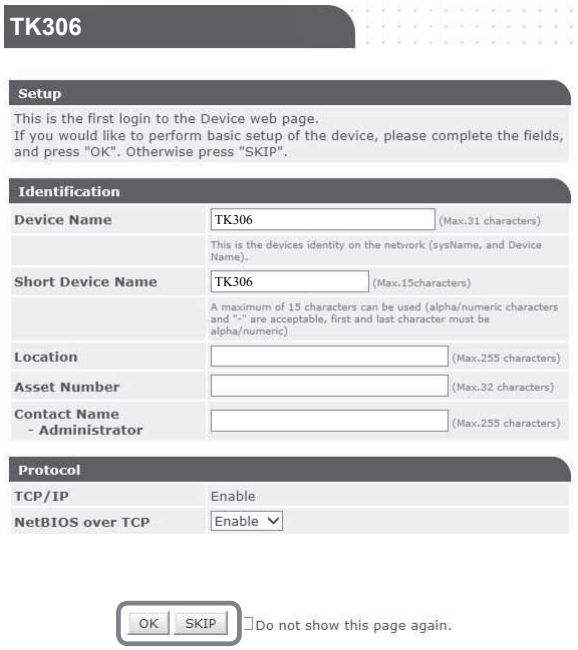
Proceed as follows:

- Click ADMIN LOGIN.

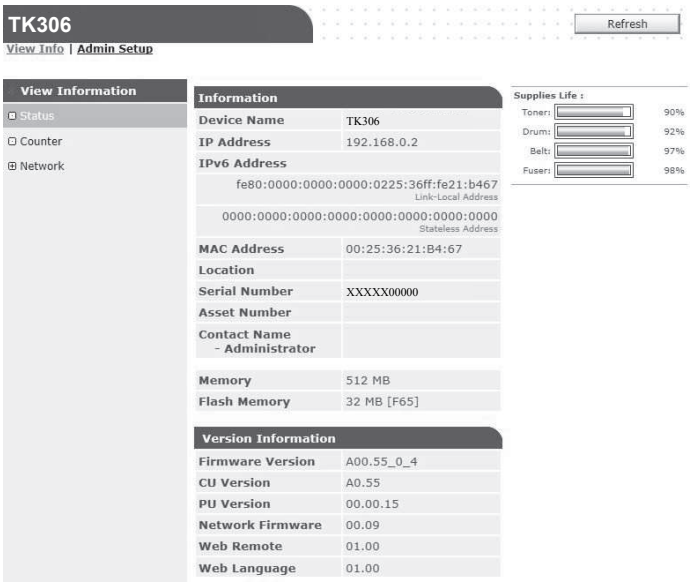


- Enter “admin” in “User Name” and the current password in “Password” and click OK. The password is the same as the administrator password for the operation panel.

- Set the printer information that can be checked on the network, and click OK or SKIP. Settings can be omitted by clicking SKIP. Select “Do not show this page again” and click OK or SKIP to prevent this from being displayed again.



- The following screen is displayed:



12.3 Encrypting Communication (SSL/TLS)

You can encrypt the communication between the computer and the device. Communication is encrypted via SSL/TLS in the following cases. A certificate is installed in the device by default, which enables communication using HTTPS to be performed.

Creating a Certificate

A certificate can be used when sending data to the device on the network. This section describes how to create a certificate using the Web Page.
The following two types of certificates can be created:
- Self-signed certificate: a certificate issued by the device.
- CA certificate: a certificate issued and signed by an external certificate authority for the CSR (Certificate Signature Request) created by the device.

ATTENTION:
Confirm that the previously installed certificate has been deleted before creating a new certificate.
If an IP address was set in the “Common Name” of the certificate, the certificate is disabled if the IP address of the device is changed after creating the certificate. Create the certificate again.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “SSL/TLS”.
- Follow the on-screen instructions to configure the detailed settings.
- Confirm the settings and click OK.
- Follow the on-screen instructions to send the CSR to the certificate authority.
- Click OK.
- Follow the on-screen instructions to install the certificate from the certificate authority.
- Click SUBMIT.
- Click OK.

Importing a Certificate and Private Key

This section describes how to import a certificate and private key using the Web Page.
A certificate and private key that have been issued can be imported in order to use a certificate issued by an external certificate authority.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “SSL/TLS”.
- Select “Using Certificate and Private Key after imported” and import the certificate.

Enabling Encryption

Encryption can be enabled after creating a certificate. This section describes how to enable encryption using the Web Page.
When encryption is enabled, the communication is immediately encrypted after the setting is changed from the Web Page.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “SSL/TLS”.
- Select “Enabled” for the protocol to encrypt.
- Click SUBMIT.

Exporting a Certificate

This section describes how to export a certificate using the Web Page.
The computer may request the certificate of the device, depending on the function performing communication via SSL/TLS.
In order to enable the computer to request the certificate of the device, import the certificate of the device that has been exported to the certificate store of the computer.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “SSL/TLS”.
- Select “Export Certificate” to export the certificate. The certificate is exported in the PEM format.

12.4 Using IPP

The device can be added to a computer as an IPP device.

When IPP printing is enabled, data can be sent to the device via Internet.

To add the device as an IPP printer, proceed as follows:

- Click START and select “Devices and Printers” > “Add a Printer”.
- Select “Add a network, wireless or Bluetooth printer” in the “Add a Printer” wizard.
- Select “The printer is not in the list” in the list of available printers.
- Select “Select the shared printer by name”.
- Enter “http://(the IP address of this device)/ipp” or “http://(the IP address of this device)/ipp/lp” and click NEXT.
- Click HAVE DISK.
- Click BROWSE.
- Specify the folder where the printer drivers are contained.
- Enter the following value in “Copy manufacturer’s files from” and click USE.
- Select the INF file and click OPEN.
- Click OK.
- Select the model and click OK.
- Click NEXT.
- Click COMPLETE.
- When installation is complete print a test page.

12.5 Encrypting Communication (IPSec)

You can encrypt the communication between the device and the computer.
The communication is encrypted with IPSec. When IPSec is enabled, all application use IPSec for encryption.
50 hosts can be specified with an IP address. Access to the device from unregistered hosts is refused. Access to unregistered hosts is also disabled. Configure the computer after configuring the device.

Configuring the device

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “SSL/TLS”.
- Follow the on-screen instructions to configure the detailed settings.
- Click SUBMIT.

The new setting is enabled after the network function of the device is restarted.
If IPSec cannot be set up because the specified parameter is incorrect, the Web Page cannot be accessed. In this case, disable IPSEC from the operation panel of the device or initalize the network settings.

Configuring the computer: creating an IP Security Policy

Proceed as follows:

- Click START and select “Control Panel” > “System and Security” > “Administrative Tools”.
- Double-click LOYAL SECURITY POLICY.
- Click IP SECURITY POLICIES ON LOCAL COMPUTER in the “Local Security Policy” window.
- Select “Create IP Security Policy” in the “Action” menu.
- Click NEXT in “IP Security Policy Wizard”.
- Enter “Name” and “Description” and click NEXT.
- Deselect “Activate the default response rule” and click NEXT.
- Select “Edit Properties” and click COMPLETE.

Configuring the computer: setting Key Exchange

Proceed as follows:

- Select the “General” tab in the IP security policy properties window.
- Click SETUP.
- Enter a value in minutes in “Authenticate and generate a new key after every” in the “Key Exchange Settings” window.
- Click METHODS.
- Click ADD in the “Key Exchange Security Methods” window.
- Specify “Integrity Algorithm”, “Encryption Algorithm” and “Diffie-Hellman group”.
- Click OK.
- Click OK in the “Key Exchange Security Methods” window.
- Click OK in the “Key Exchange Settings” window.

Configuring the computer: setting the IP Filter

Proceed as follows:

- Select the “Rules” tab in the IP security policy properties window.
- Click ADD.
- Click NEXT in “Security Rules Wizard”.
- On the “Tunnel Endpoint” screen, select “This rule does not specify a tunnel” and click NEXT.
- On the “Network Type” screen, select “All Network Connections” and click NEXT.

- Click ADD on the “IP Filter List” screen.
- Click ADD in the “IP Filter List” window.
- Click NEXT in “IP Filter Wizard”.
- Click NEXT on the “IP Filter Description and Mirrored property” screen.
- Click NEXT on the “IP Traffic Source” screen.
- Click NEXT on the “IP Traffic Destination” screen.
- Click NEXT on the “IP Protocol Type” screen.
- Click COMPLETE.

Configuring the computer: setting the Filter Operations

Proceed as follows:

- Click OK in the “IP Filter List” window.
- In “Security Rules Wizard” select the new IP filter in the list and click NEXT.
- Click ADD on the “Filter Action” screen.
- Click NEXT in “Filter Action Wizard”.
- On the “Filter Action Name” screen, enter “Name” and “Description” and click NEXT.
- On the “Filter Action General Options” screen, select “Negotiate Security” and click NEXT.
- On the “Communicating with computers that do not support IPSec” screen, select “Do not allow unsecured communication” and click NEXT.
- On the “IP Traffic Security” screen, select “Custom” and click SETUP.
- Configure the settings in the “Custom Security Method Settings” window and click OK.
- Click NEXT on the “IP Traffic Security” screen.
- Select “Edit Properties” and click COMPLETE.

Configuring the computer: assigning an IP Security Policy

Proceed as follows:

- To enable key PFS, select “Use session key perfect forward secrecy (PFS)” in the “Filter Action Properties” window.
- To perform IPSec communication with an IPv6 global address, select “Accept unsecured communication but always respond using IPSec”.
- Click OK.
- Select the new filter operation and click NEXT.
- On the “Authentication Method” screen, select the authentication method and click NEXT.
- Click COMPLETE.
- Click OK in the “IP Securiy policy properties” window.
- Select the new IP security policy in the “Local Security Policy” window.
- Select “Assign” in the “Action” menu.
- Confirm that “Yes” is displayed for the “poly Assigned” of the new IP security policy.
- Click X in the “Local Security Policy” window.

12.6 Using the IP Address Access Control Function (IP Filter)

IP Addresses can be used to control access to the device. You can configure whether to allow printing or setting from the specified IP address. IP filtering is disabled by default.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “IP Filtering”.
- Follow the on-screen instructions to configure the detailed settings.
- Click SUBMIT.

12.7 Using the MAC Address Access Control Function

MAC Addresses can be used to restrict access to the device. You can allow or refuse access from specified MAC addresses.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “Security” > “MAC Address Filtering”.
- Follow the on-screen instructions to configure the detailed settings.
- Click SUBMIT.

12.8 E-Mail Alert

A mail server needs to be configured in advance in order to use this function.

Sending Error Notifications via E-mail

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “E-mail” > “Alert Settings”.
- Enter the e-mail address to notify in “Failure Notification Settings”.
- Click SETUP for the entered e-mail address or click COPY to apply the notification conditions to another address.
- Select “Upon occurrence of an event” in “Failure Notification Method” and click TO STEP 2.
- Follow the on-screen instructions to configure the detailed settings. Select an error or warning to send notification for to display the window for specifying the time difference between when the error occurs and when the notification is sent.
- Click OK.
- Click VIEW A SUMMARY OF CURRENT CONFIGURATION, confirm the current settings and click X to close the window. You can also check the current settings for a maximum of two addresses in the main window. Select the address to check from the list box.
- Click SUBMIT.

Periodically sending error notifications via E-mail

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “E-mail” > “Alert Settings”.
- Enter the e-mail address to notify in “Failure Notification Settings”.
- Click SETUP for the entered e-mail address or click COPY to apply the notification conditions to another address.
- Select “Periodically” in “Failure Notification Method” and click TO STEP 2.
- Follow the on-screen instructions to configure the detailed settings.
- Click OK.
- Click VIEW A SUMMARY OF CURRENT CONFIGURATION, confirm the current settings and click X to close the window. You can also check the current settings for a maximum of two addresses in the main window. Select the address to check from the list box.
- Click SUBMIT.

12.9 Using SNMPv

Using an SNMP manager that supports SNMPv3 enables the management of the device to be encrypted via SNMP.

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “SNMP” > “Setup”.
- Follow the on-screen instructions to configure the detailed settings.
- Click SUBMIT.

12.10 Using IEEE802.1X (Wired LAN)

The device supports IEEE802.1X authentication. IEEE802.1X authentication is performed after enabling it on the Web page and connecting to the authentication switch.

Using EAP-TLS

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “IEEE802.1X”.
- Select “Enabled” for “IEEE802.1X”.
- Select “EAP-TLS” in “EAP Type”.
- Enter the user name in “EAP User”.
- Select “Do not use SSL/TLS Certificate for EAP authentication” and click IMPORT.
- Enter the file name of the certificate.
- Enter the certificate password and click OK.
- Select “Authenticate Server” and click IMPORT.
- Enter the file name of the CA certificate and click OK. Specify the certificate of the certificate authority (CA) used for the RADIUS server authentication. PEM, DER and KCS#7 can be imported.
- Click SUBMIT.
- Turn off the device when it becomes online.
- Remove the LAN cable from the device.

Using PEAP

Proceed as follows:

- Open the Web Page of this device (see paragraph 12.1).
- Log in as the administrator (see paragraph 12.2).
- Select “Admin Setup”.
- Select “Network” > “IEEE802.1X”.
- Select “Enabled” for “IEEE802.1X”.
- Select “PEAP” in “EAP Type”.
- Enter the user name in “EAP User”.
- Enter the password in “EAP Password”.
- Select “Authenticate Server” and click IMPORT.
- Enter the file name of the CA certificate and click OK. Specify the certificate of the certificate authority (CA) used for the RADIUS server authentication. PEM, DER and KCS#7 can be imported.
- Click SUBMIT.
- Turn off the device when it becomes online.
- Remove the LAN cable from the device.

Connecting the device to an authentication switch

Proceed as follows:

- Make sure that the device is turned off.
- Connect a LAN cable to the network interface connector of the device.
- Insert the other end of the LAN cable into the authentication port of the authentication switch.
- Turn on the device.
- Set the IP address, etc of the device.

13 SPECIFICATIONS

13.1 Hardware specifications

GENERAL	
CPU	ARM Cortex A9 (533 MHz)
Display	16 characters x 2 lines
Printing driver	Windows 7 (32/64 bit) Windows 8 (32/64 bit) Windows 8.1 (32/64 bit) Windows 10 (32/64 bit)
Dimensions (W x D x H)	198 mm x 380 mm x 205 mm
Weight	Approx. 9.5 kg
INTERFACES	
USB port	480 Mbit/s (USB 2.0)
Ethernet port	10 Mbit/s, 100 Mbit/s
MEMORIES	
RAM memory	DDR3 16 bit 512 MB
ROM memory	64 MB
Flash memory	32 MB
PRINTER	
Resolution	1200 x 1200 dpi
Printing method	LED color
Color	Yellow, Magenta, Cyan
Page-description language	PCL5c, PCL6 (PCLXL)
Media type	Plain, user type 1-5

Warm-up time	18 s
Life (1)	
Toner cartridge	enables printing of approx. 5.000 pages (2)
Image drum life	enables printing of approx. 4 km (3)
Fuser unit	enables printing of approx. 125.000 pages (3)
Transfer belt unit	enables printing of approx. 125.000 pages (3)
Paper feed rollers	enables printing of approx. 60 km
Autocutter	1M cuts (based on paper thickness < 200 µm)
Resident fonts	bitmap: 4 fonts scalabel: 27 fonts (see paragraph 13.3)
Printing speed (1)	max. 152.4 mm/s
PAPER	
Paper type	Continuous plain paper or cut sheet
Paper weight	see paragraph 13.2
Paper width	from 25 mm to 86 mm
Paper length	from 53 mm to 551 mm
DEVICES ELECTRICAL SPECIFICATIONS	
Power supply	
TK306 120V	from 110 Vac to 127 Vac ± 10%
TK306 230V	from 220 Vac to 240 Vac ± 10%
Power consumption	
Peak	650 W
Typical operation	average approx. 250 W

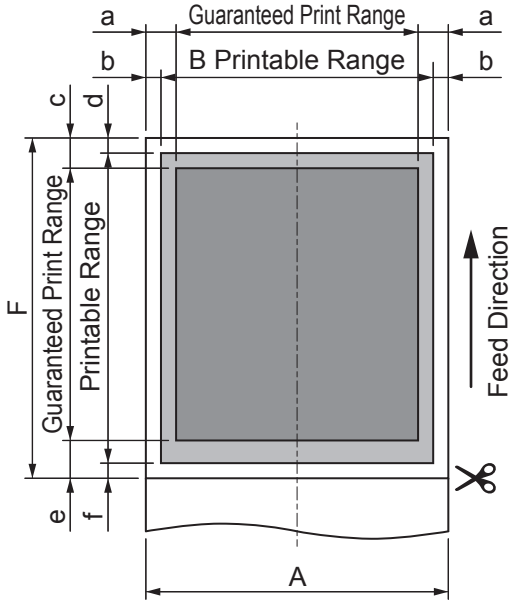
Idle	average approx. 10 W
Power save mode	average approx. 5 W
Sleep mode	average approx. 1 W
Auto power off mode (4)	≤ 0.5 W
ENVIRONMENTAL CONDITIONS	
Operating temperature	
Operating	from 10 °C to +32 °C
Idle	from 0 °C to +43 °C
Relative humidity (RH)	
Operating	from 20% to 80% (w/o condensation)
Idle	from 10% to 90% (w/o condensation)
Storage temperature	from -10 °C to +43 °C
Storage relative humidity (RH)	from 10% to 90% (w/o condensation)
Condition for the guarantee of print quality	
Operation range	Temperature 10 °C, humidity from 20% RH to 80% RH Temperature 32 °C, humidity from 20% RH to 60% RH Humidity 20% RH, temperature from from 10 °C to +32 °C Humidity 80% RH, temperature from from 10 °C to +27 °C
Full-color print quality assured range	Temperature from 17 °C to 27 °C, humidity from 50% RH to 70% RH

NOTES:
(1) : Respecting the regular schedule of cleaning for the device components.
(2) : Considering to print for each color component CMY a square with 22.5 mm side per ticket.
(3) : Considering average length of document 125 mm.
(4) : Default setting. May differ according to the device settings.

13.2 Paper specification

All the dimensions shown in following figures are in millimetres.

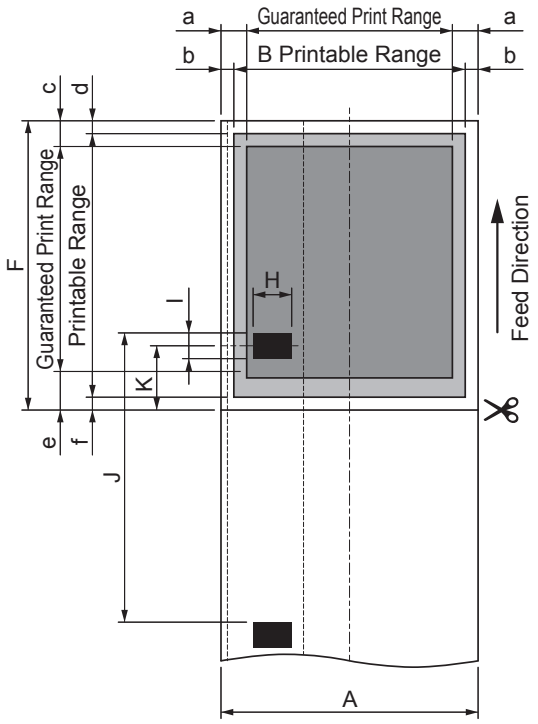
Continuous paper without mark



where:

Paper weight		from 0.080 mm to 0.250 mm
Paper width	A	from 25 mm to 86 mm
Cut length	F	from 53 mm to 551 mm
Side margin	a	4.2 mm
	b	2 mm
Top margin	c	4.2 mm
	d	2 mm
Bottom margin	e	6.3 mm
	f	2 mm
Paper format setting		CONTINUOUS PAPER
Cut type setting		LENGTH
Usage conditions		
Guaranteed print range		
Printable range	B	Maximum 80 mm

Continuous paper with black mark

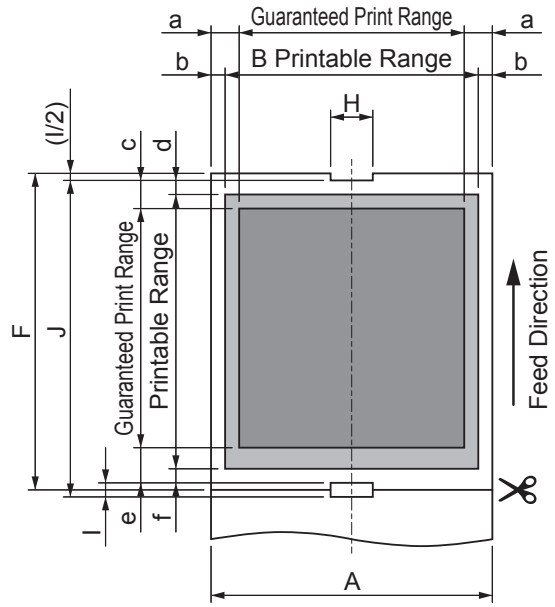


where:

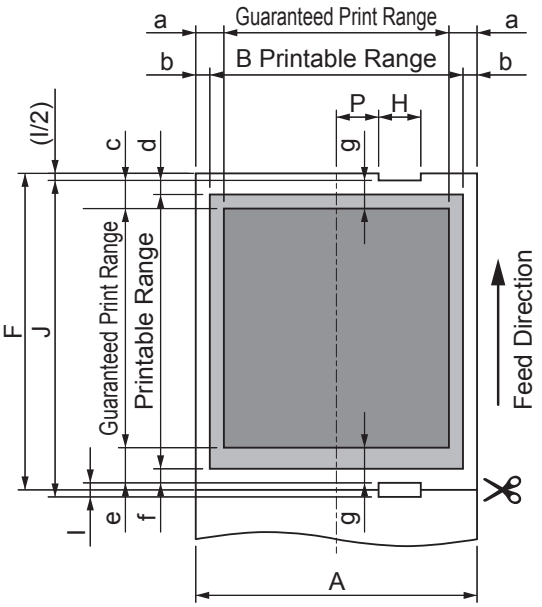
Paper weight		from 0.080 mm to 0.250 mm
Paper width	A	from 25 mm to 86 mm
Cut length	F	from 53 mm to 551 mm
Side margin	a	4.2 mm
	b	2 mm
Top margin	c	4.2 mm
	d	2 mm
Bottom margin	e	6.3 mm
	f	2 mm
Blackmark width	H	9 mm or more
Blackmark length	I	from 2.5 mm to 13 mm
Blackmarks pitch	J	from 53 mm to 551 mm
Cut position	K	from-6.5 mm to length of Black Marks Pitch (J)
Unprintable range for pre-printing		In order to prevent misdetection of the black mark, do not print around the mark.
Paper format setting		CONTINUOUS PAPER
Cut type setting		When the black mark is on the front: B/M(FRONT) When the black mark is on the back: B/M(BACK)
Usage conditions		Use black marks printed in carbon.
Guaranteed print range		
Printable range	B	Maximum 80 mm

Continuous paper with hole

With holes in the paper center



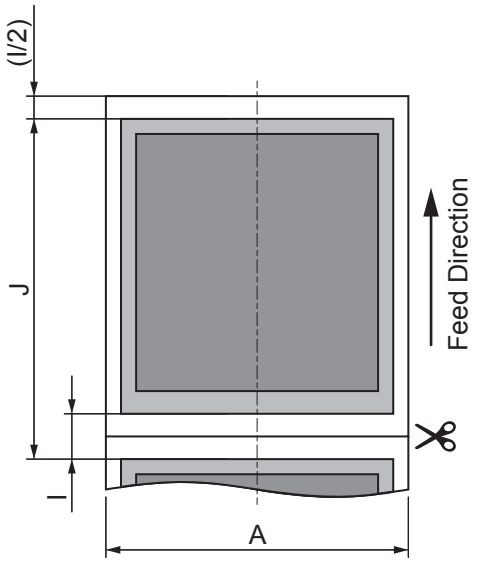
Without holes in the paper center

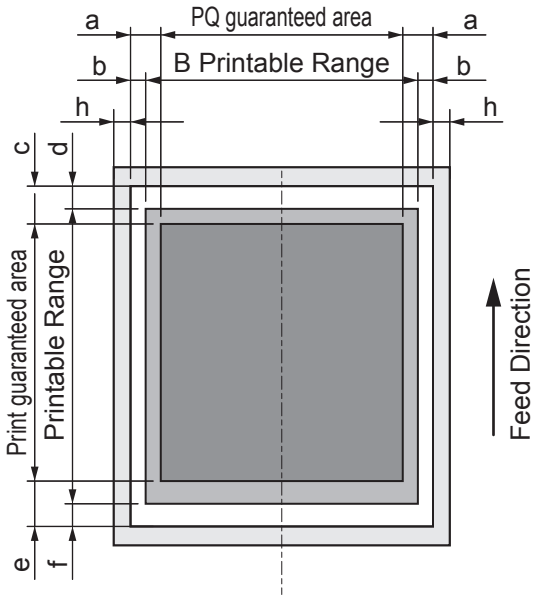


where:

Paper weight		from 0.080 mm to 0.250 mm
Paper width	A	from 36 mm to 86 mm
Cut length	F	from 53 mm to 551 mm
Side margin	a	4.2 mm
	b	2 mm
Top margin	c	4.2 mm
	d	2 mm
Bottom margin	e	6.3 mm
	f	2 mm
Hole margin	g	2 mm or more
Hole width	H	7 mm or more
Hole length	l	With holes in the paper center: 1.6 mm to 5 mm Without holes in the paper center: 1.6 mm to 13 mm
Hole pitch	J	from 53 mm to 551 mm
Paper center separation distance Right side	P(R)	from 3.5 mm to 36 mm
Paper center separation distance Left side	P(L)	from 3.5 mm to 29 mm
Paper format setting		CONTINUOUS PAPER
Cut type setting		With holes in the paper center: CENTER HOLE Without holes in the paper center: SIDE HOLE
Usage conditions		When there is a hole in the center of the paper, set “Bottom margin” to a value equal or above the size of the hole. When there is not a hole in the center of the paper, set “Top margin” and “Bottom margin” to a value equal or above half the size of the hole.
Guaranteed print range		
Printable range	B	Maximum 80 mm

Continuous paper with labels

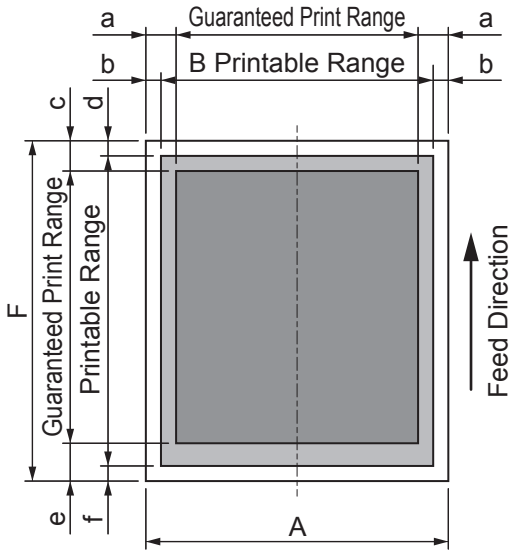




where:

Paper thickness		from 130 µm to 150 µm (paper from 70 µm to 80 µm, liner from 65 µm to 70 µm)
Glue type		Acrylic
Paper width	A	from 25 mm to 86 mm
GAP length	l	from 3 mm to 13 mm
Label pitch	J	from 53 mm to 551 mm
Side margin	a	4.2 mm
	b	2 mm
Top margin	c	4.2 mm
	d	2 mm
Bottom margin	e	6.3 mm
	f	2 mm
Liner width	h	2 mm
Paper format setting		CONTINUOUS PAPER
Cut type setting		GAP
Printable range	B	Maximum 80 mm

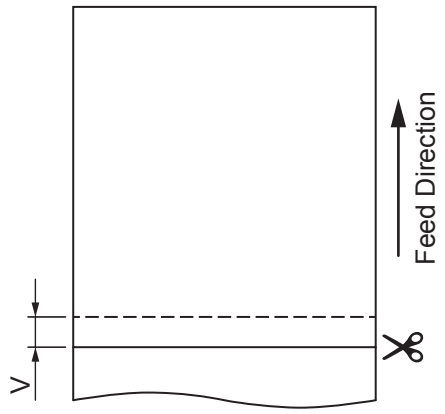
Cut sheet



where:

Paper weight		from 0.060 mm to 0.250 mm
Paper width	A	from 25 mm to 86 mm
Cut length	F	from 53 mm to 551 mm
Side margin	a	4.2 mm
	b	2 mm
Top margin	c	4.2 mm
	d	2 mm
Bottom margin	e	6.3 mm
	f	2 mm
Paper format setting		CUT PAPER
Cut type setting		
Usage conditions		
Guaranteed print range		
Printable range	B	Maximum 80 mm

Paper with perforation



where:

Paper weight		from 0.060 mm to 0.250 mm
Cut position	V	1.5 mm or more

NOTE: When cutting paper with perforation, cut the paper at a position at least 1.5 mm away from the perforation.

Roll paper

Outer wind diameter	203.2 mm or less
Wind core inner diameter	50.8 mm
Wind core outer diameter	Not specified
Printed surface	Outer surface only

13.3 List of included fonts

The following is the full list of coding tables included on the device.

No.	Font Name List	Description
I0	Courier	Scalable Fonts
I1	Courier Bold	
I2	Courier Italic	
I3	Courier Bold Italic	
I4	CG Times	
I5	CG Times Bold	
I6	CG Times Italic	
I7	CG Times Bold Italic	
I8	Univers Medium	
I9	Univers Bold	
I10	Univers Medium Italic	
I11	Univers Bold Italic	
I12	Letter Gothic	
I13	Letter Gothic Bold	
I14	Letter Gothic Italic	
I15	Letter Gothic Bold Italic	
I16	Arial	
I17	Arial Bold	
I18	Arial Italic	
I19	Arial Bold Italic	
I20	Times New	
I21	Times New Bold	
I22	Times New Italic	
I23	Times New Bold Italic	
I24	Symbol	
I25	Wingdings	
I26	OCRB Subset2	
I27	Line Printer	Bitmap Fonts
I28	OCR-A	
I29	OCR-B	
I30	USPS POSTNET Bar Code	

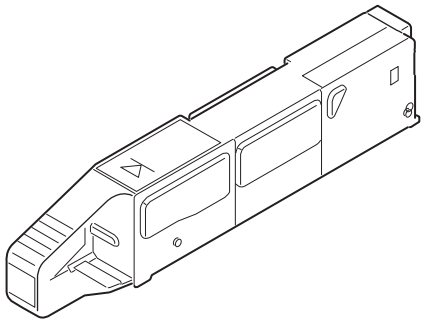
14 CONSUMABLES

The following table shows the list of available consumables for device.

4B000000031600

TONER CARTRIDGE

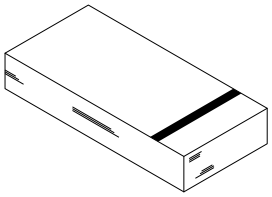
Approx. 5000 pages



67800000000002

FAN-FOLD

weight = 170 g/m^2

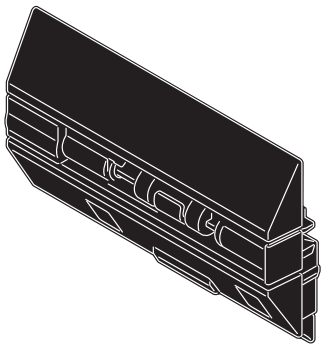


15 ACCESSORIES

The following table shows the list of available accessories for device.

976MG010000001

PRESENTER



16 TECHNICAL SERVICE

In case of failure, contact the technical service accessing the website www.custom4u.it and using the support tools on the homepage. It is advisable to keep the identification data of the product at hand.

The product code, the serial number and the hardware release number can be found on the product label (see paragraph 3.6).

Code : 0576200M000101 Rev.1.00

CUSTOM S.p.A.
World Headquarters
Via Berettine, 2/B - 43010 Fontevivo, Parma ITALY
Tel. +39 0521 680111 - Fax +39 0521 610701
info@custom.biz - www.custom.biz

All rights reserved