

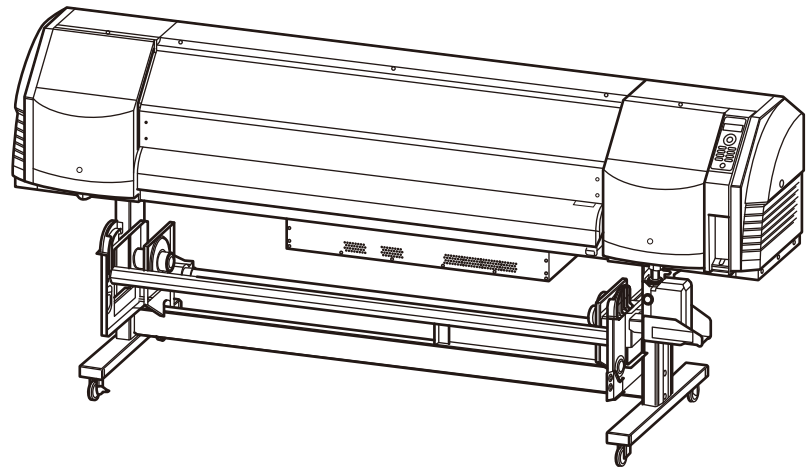
# OKI

## User's Guide

---

Solvent Ink Color Inkjet Printer

# IP-5630/5530



Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix

Copyright© 2016 OKI Data Corporation.

All rights reserved

The contents of this manual may be changed without prior notice.

OKI Data Corporation. reserves the right to make changes without notice to the specifications and materials contained herein and shall not be responsible for any damage (including consequential) caused by reliance on the materials presented, including but not limited to typographical, arithmetic, or listing errors.

Please address any questions, comments, and suggestions to the regional office on:

<https://www.oki.com/printing/>

This guide acknowledges the following trademarks:

All other trademarks are the properties of their respective companies.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



The CE mark, that shows that the products sold in the EU are conformed to the requirements of EC directive, is statutorily required to be affixed to the products.

In each directive, the scope of directive to be applied to equipment is explicitly defined. Our company's product IP-5630/5530 conforms the EMC directive, low voltage directive and RoHS Directive.

Inquiry of CE mark:

**OKI Europe Ltd.**

Blays House, Wick Road, Egham, Surrey, TW20 0HJ, UK

Tel: +44 (0)20 8219 2190

Fax: +44 (0) 20 8219-2199

**OKI Data Corporation**

4-11-22, Shibaura, Minato-ku, Tokyo 108-8551, Japan

Phone: +81-3-5445-6111

Fax: +81-3-5445-6178



# Introduction

---

Your printer is the IP-5630/5530 Color Inkjet Printer (hereafter simply called the printer.)

The IP-5630 and IP-5530 printer models are color inkjet printers using solvent ink and equipped with USB 2.0 interface. They support media up to 64 inches in width and 54 inches in width respectively.

This guide provides explanations for the IP-5630 model. Even if some models may not be available in some regions, the explanations apply to all models unless otherwise specified. Information for a specific model is given when necessary.

This guide, the **IP-5630/5530 Solvent Ink Color Inkjet Printer User's Guide**, describes the features and functions of the printer and the procedures, such as printing, required to use the printer. In addition, troubleshooting is also included. Read the sections related to the information you are looking for.

The following items should be read before using the printer to ensure correct and safe operations.

- **Safety precautions**
- **Components delivered with this product**
- **Manual legend (Notational rules)**
- **Operating conditions**

Keep this guide in an easily accessible location to use it as a reference when needed.

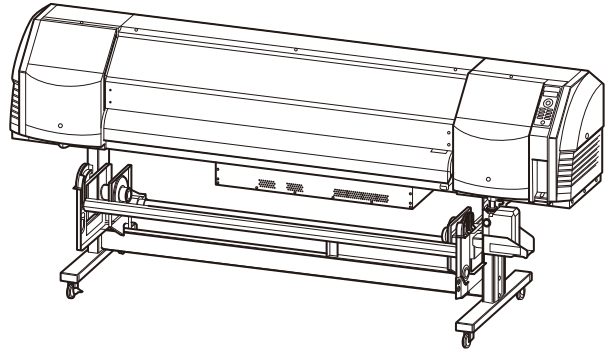
# To maintain an excellent print quality

Be sure to pay attention to the following three points to maintain an excellent print quality and use the printer over a long time.

(1) Load the media correctly

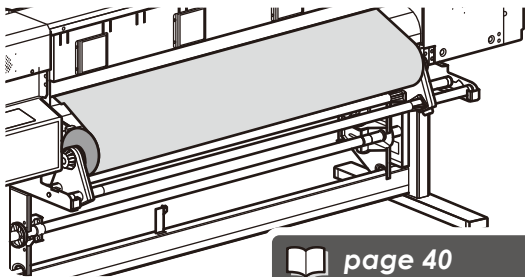
(2) Adjust the media advance adjustment value and the bidirectional print value properly

(3) Perform the necessary maintenance operations



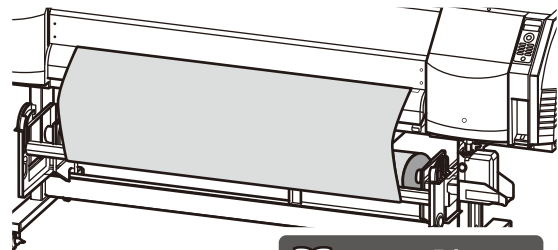
## 1. Load the media correctly

Load the media on the feed unit.



 page 40

Set the media on the take-up reel (TUR) unit.

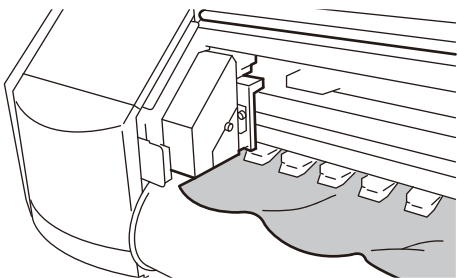


 page 54

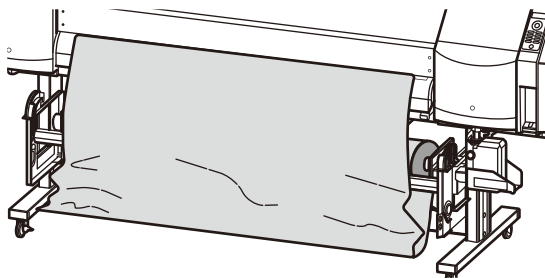
## ***If the media is not set correctly...***

The media may skew or contact the print heads, which will decrease the print quality.

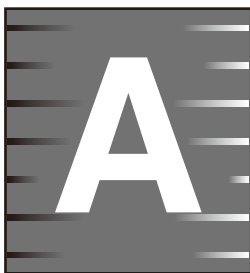
**Media jam caused by skewed media**



**Incorrect winding**



### **<Examples>**

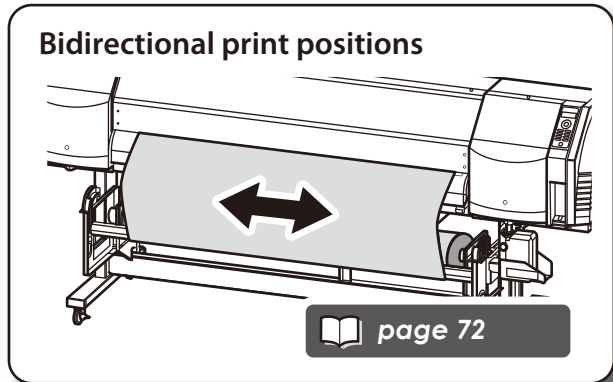
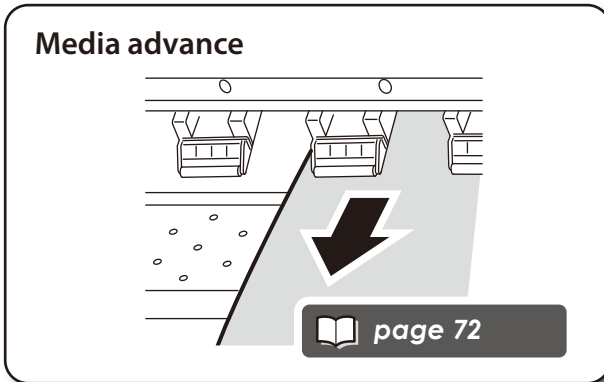


Colors on the right and left differ due to skewed media.



The printout is not clean due to media contacting the print heads.

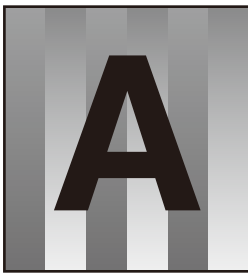
## 2. Adjust the media advance adjustment value and the bidirectional print value properly



**If these adjustment operations are not performed when using a new media...**

The ink may not be output to the right position and the print quality may decrease.

<Examples>

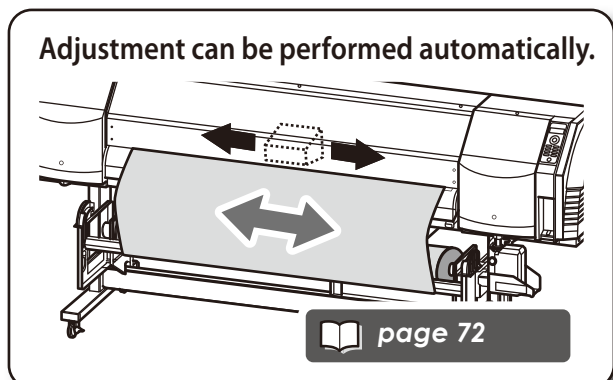


Banding (white or black bands) may appear if media advance adjustment is not performed correctly.



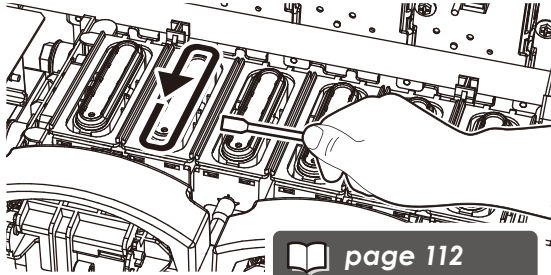
Grains may become visible and the image may appear blurred if the bidirectional print positions are not adjusted.

**The printer has been designed to facilitate adjustment.**



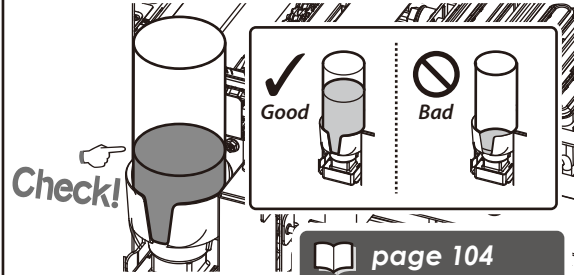
### 3. Perform the necessary maintenance operations

Clean the capping unit.



page 112

Check the wiper cleaning liquid.

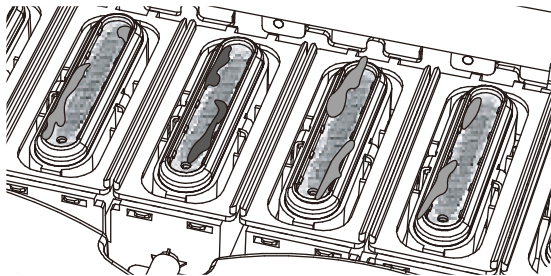


page 104

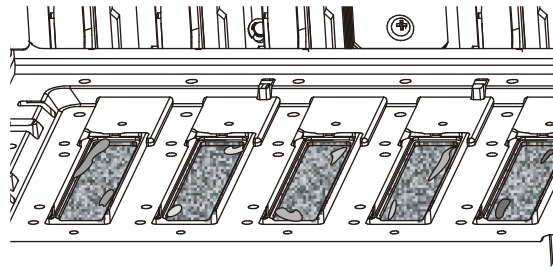
**If the printer is used when not clean...**

The print quality may not only decrease but the printer may also malfunction.

The capping unit is dirty.



The print heads are dirty.



**Use CP\_Manager...**

to make maintenance operations easier.

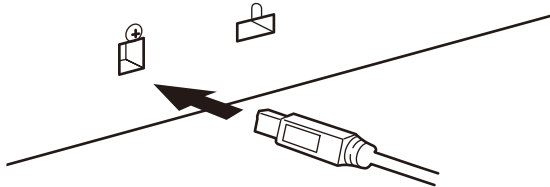
Maintenance status and periods can be grasped at a glance.



page 37

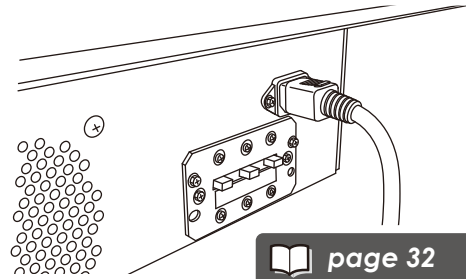
# Starting out...

Connect to a computer.



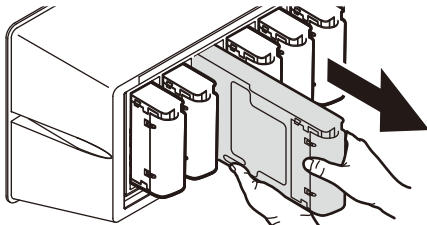
 page 35

Turn on the power.



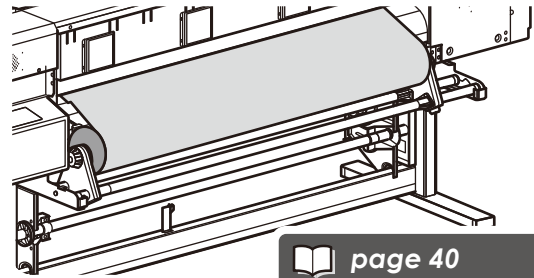
 page 32

Replace the ink cartridge (CIS).



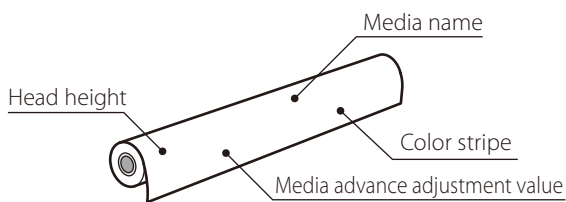
 page 201

Load the roll media.



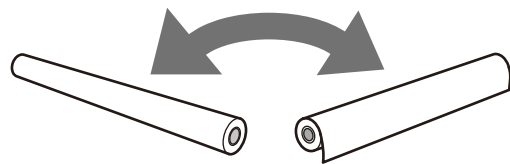
 page 40

Register the media.



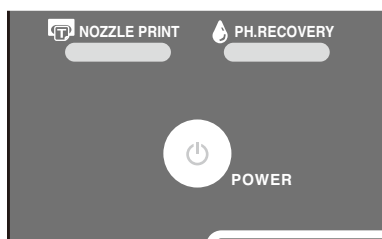
 page 44

Replace the media.



 page 53

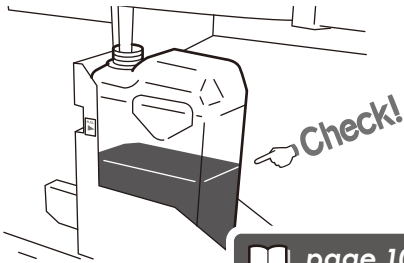
Turn off the power.



 page 34

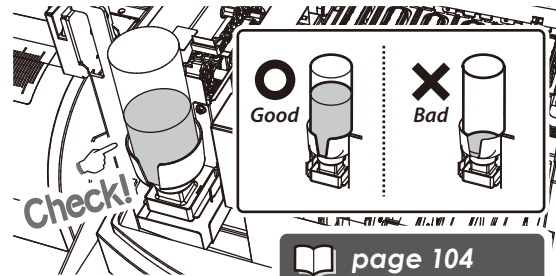
# Regular Inspection (Maintenance)

Check the Waste ink bottle.



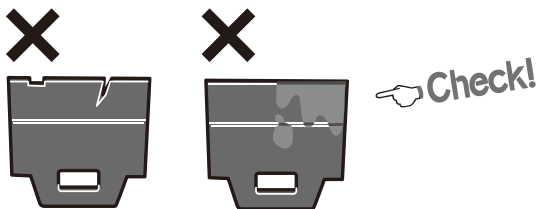
page 102

Check the wiper cleaning liquid.



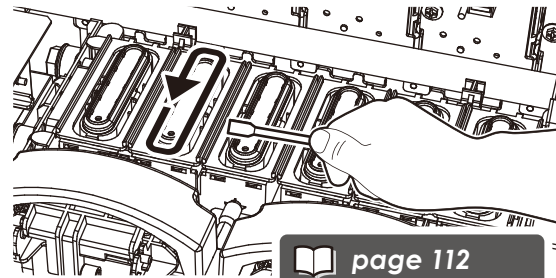
page 104

Check stains on the wiper blade.



page 106

Clean the capping unit.



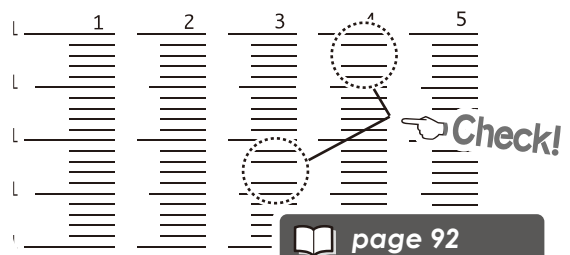
page 112

Perform a NORMAL print head cleaning.

#PH RECOVERY  
>NORMAL

page 115

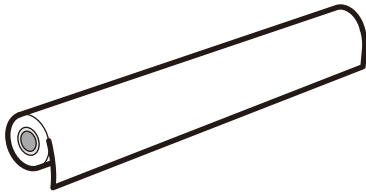
Perform a NOZZLE PRINT pattern.



page 92

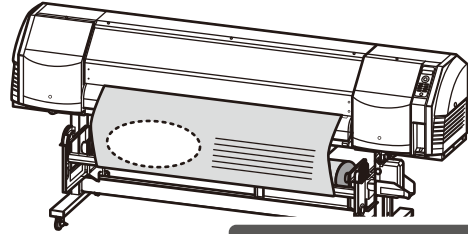
# When you want to...

Print on a thick media.



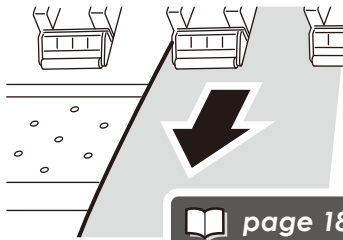
 page 165

Print on the margin of the media.



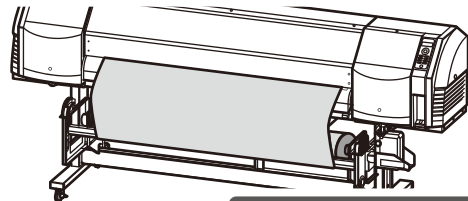
 page 179

Change the media advance adjustment value during printing.



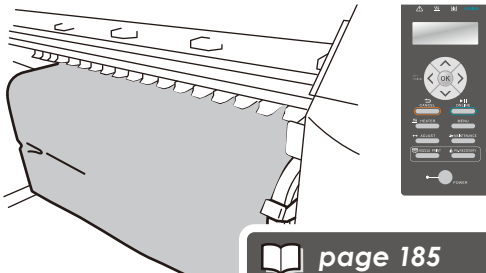
 page 189

Change the heater temperature during printing.



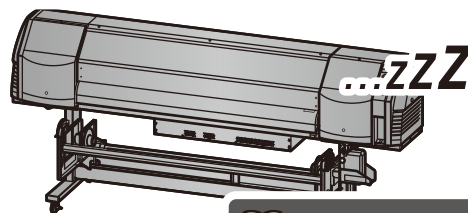
 page 194

Remove media wrinkles during printing



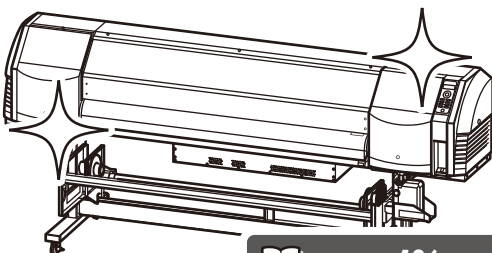
 page 185

(During holidays and so on)  
Switch off the printer for a long period of time.



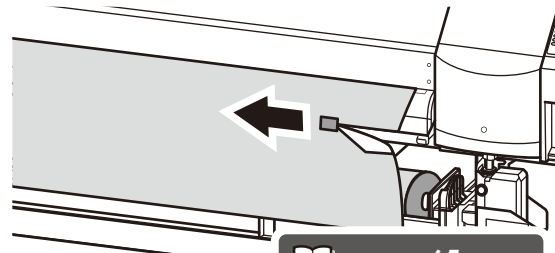
 page 136

Clean the printer.



 page 126

Cut the media (when an option is installed)



 page 65



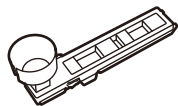
# Replacement and troubleshooting

Replace consumables.



Wiper cleaning liquid

page 104



Wiper sponge

page 111



Waste ink bottle

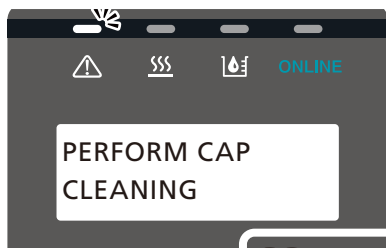
page 102



Wiper blade

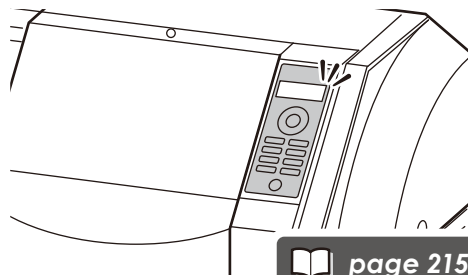
page 106

A warning message is displayed.



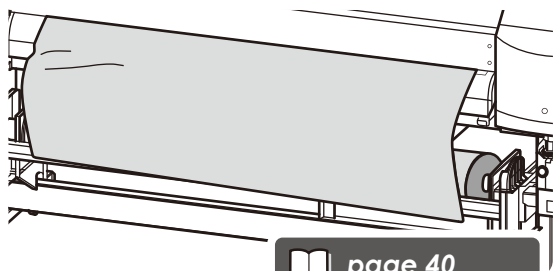
page 224

An error message is displayed.



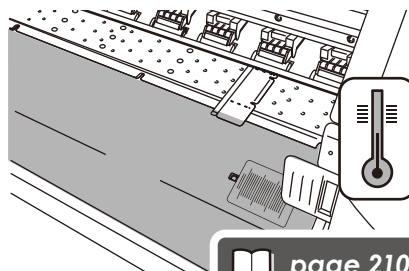
page 215

The media is not straight.



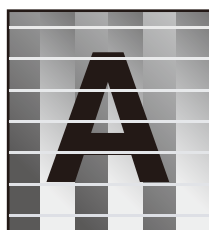
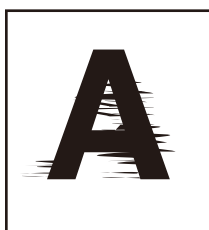
page 40

The heater does not warm up.



page 210

Smears or stripes appear on the print.



page 233

# Table of Contents

Introduction .....	3
Table of Contents .....	12
Safety precautions.....	14
Symbol on the printer .....	14
Manual legend (Notational rules) .....	19
Components delivered with the printer ....	20
Operating conditions .....	21
Installation and maintenance space .....	21
Environmental conditions .....	22
FFTSS Library, Employed by the Software Installed on the Printer .....	23

## Before printing

Appearance / Main components and their functions .....	26
Printer front (take-up side) .....	26
Printer rear (supply side) .....	27
Printer interior .....	28
Operation panel .....	29
LCD messages.....	30
Printer heater unit .....	31
To turn the printer on and off.....	32
Power-on procedure .....	32
Power-off procedure .....	34
To connect the USB cable .....	35
Online and offline .....	36
Online .....	36
Offline .....	36
CP_Manager.....	37
Supported media.....	38
Vinyl .....	38
Banner .....	38
Mesh banner (with liner) .....	38
Backlit banner (FF) .....	38
Solvent printing coated paper .....	38

## Loading the media

Loading the media on the printer .....	40
Procedure to load roll media .....	40
Procedure to monitor remaining media .....	47
Procedure to load transparent media and media with a black reverse side.....	48
Replacing the media when the end of the roll is reached 53	
Replacing the media after a media jam .....	53
Setting the media remaining length .....	53
Setting the media on the take-up reel..	54
Winding the media.....	54
Tension take-up / Loose take-up setting.....	58
Take-up switch setting.....	60
Using a 2 inch core.....	60

Adjustment of the take-up reel unit.....	62
Adjustment during operation.....	62
Removing the media .....	63
Procedure to print the amount of remaining media.....	63
Procedure to remove the roll media (feed side) .....	64
Cutting the media.....	65
Procedure to feed the media up to the cut position after printing .....	66
Procedure to backfeed the media to the print position after cutting .....	67
Unwind the media from the TUR unit .....	68
Procedure to unwind the media from the TUR unit.....	68

## Adjustment

Before making adjustment .....	72
Cautions regarding automatic print adjustment .....	73
When automatic print adjustment cannot be performed ..	73
Adjustment methods .....	75
Adjusting media feeding: Media advance adjustment ..	75
Correcting ink output position: Bidirectional adjustment ..	80
Correcting ink output position: Detailed bidirectional adjustment.....	85

## Maintenance

Daily maintenance.....	90
Routine maintenance.....	91
A Media installation .....	91
B Nozzle print .....	92
Print the <b>NOZZLE PRINT</b> pattern .....	92
Configure nozzle map .....	93
Cautions regarding automatic configuration .....	94
When an error occurs with automatic configuration..	100
C Waste ink bottle check and replacement .	102
D Wiper cleaning liquid check and supply ..	104
E Wiper blade cleanliness check and replacement .....	106
Wiper blades check.....	106
Wiper blades replacement.....	108
Weekly maintenance.....	112
F Cap cleaning (capping unit cleaning, cleaning) .....	112
Performing wiper blades check, capping unit cleaning and cleaning at the same time.....	112
Performing cleaning independently .....	115
G Pressure roller cleaning .....	116
Maintenance when a message is displayed ..	117
H Wiper sponge replacement .....	117
I Sheet mount cleaning .....	120

Preparing the sheet mount cleaning .....	120
Performing sheet mount cleaning .....	121

## Maintenance when the printer is dirty ... 126

### J Printer cleaning ..... 126

Head guard cleaning .....	126
Media edge guard cleaning .....	128
Front cover cleaning .....	129
Paper guide cleaning .....	129
Platen cleaning .....	130

### K Cleaning around the ionizers and the sensors for automatic print adjustment.... 131

## After the operation of the day..... 134

## Advanced operations

### When not using the printer for more than 2 weeks..... 136

Service cleaning .....	137
Head wash.....	139
Priming the ink system after head wash.....	142

### Check the printer information..... 144

Check the remaining ink level .....	144
Export printer information .....	146
Check remaining media length .....	147
Check the USB connection status .....	149
Check the firmware version on the printer .....	150
Check the print length .....	151

### Handle the media ..... 153

Create a new media preset .....	153
Minimize the right and left margins .....	156
Prevent the media from sticking and wrinkling .....	159
Prevent the media from lifting up .....	163
Print on a thick media .....	165
Suspend printing when media wrinkles are detected...170	
Prevent the ink from spreading over the printout (when an option is installed) .....	172
Change the automatic cleaning timing .....	174
Copy a media preset .....	176
Change the type of the preset media without reloading the media .....	177
Feed or rewind media .....	178
Move the print start position .....	179
Exit origin setting mode .....	180
Adjust the head margin before printing .....	181
Fix the print position (margin size).....	182
Remove some media wrinkles during printing .....	185

### How to use the lifter..... 186

### To change the printer's basic settings .... 187

Turn the warning beep off .....	187
---------------------------------	-----

### Controlling the media advance adjustment value ..... 189

Change the media advance adjustment value during printing .....	189
---	-----

### Print conditions..... 190

Print modes .....	190
-------------------	-----

Set the carriage speed .....	191
Print speed .....	192

## Adjust the heaters temperatures ..... 194

Procedure to set the heaters temperatures .....	194
Display the heater control menu .....	195
Button operations in the heater control menu .....	195
Exit the heater control menu display .....	196
Set the heater preset temperature .....	196
Set the print end heating time.....	198
Select the standby time .....	199

## Out of ink while printing .....200

Install an ink cartridge.....	201
Replace an ink cartridge.....	202
Ink cartridge installation procedure.....	205

## Troubleshooting

### Check the problem ..... 210

### How to clear media jams .....213

### When an error message is displayed.....215

### The media has skewed..... 223

### Warning messages..... 224

### Clear missing dots (nozzle clogging) ..... 226

Strong cleaning .....	226
Fill the cap with ink .....	227
Fill the cap with wiper cleaning liquid .....	228

### Media wrinkles have been detected ..... 231

### Solve print quality issues..... 233

The print is pale. ....	233
The printout is blurred or grains appear. ....	233
Missing dots are found at the beginning of printing. ..	233
The media is curled or wrinkled. ....	234
White stripes appear on the print. ....	235
Black stripes appear on the print. ....	237
The printout is not clean. ....	239
Contours of objects are blurred. ....	241
Vertical banding appears at the printout edges. ....	243
Different bands appear on the printout right and left sides. ....	244
Vertical bands appear on the printout.....	245

## Menu tree

## Appendix

### Basic specifications..... 259

### Consumables ..... 260

### Options ..... 263



### Distributors ..... 264

Contact Us.....	264
-----------------	-----

# Safety precautions

---

The following symbols are used in the guide to ensure the printer's proper operation and to prevent the printer from being damaged. Follow the instructions marked with these symbols:

 <b>WARNING</b>	<b>Failure to follow the guidelines marked with this symbol could result in serious personal injury or death.</b>
 <b>CAUTION</b>	<b>Failure to follow the guidelines marked with this symbol could result in minor personal injury or damage to the product.</b>

## *Example of symbols:*



This symbol ( Triangle ) denotes items that require special care while executing a certain procedure or operation.



This symbol ( Crossed circle ) denotes items that are forbidden.



This symbol ( Plain circle ) denotes items you should follow to prevent accidents or injury.

This equipment is not suitable for use in locations where children are likely to be present.

# Symbol on the printer

---



This symbol denotes locations that may become very hot and that should not be touched.



## WARNING

Be sure to read warnings below before use.



Use the power supply voltage specified on the nameplate. Avoid overloading the electrical outlet used for the printer with multiple devices.



Make sure that the printer is well grounded. Failure to ground the printer may result in electrical shock, fire, and increased susceptibility to electromagnetic interference.



Always hold the power cord by the plug when connecting to and disconnecting from the power outlet. Never pull on the cord directly. Doing so may damage the cord and create a risk of fire and electric shock.



Do not use a conversion plug.



Do not disassemble or repair the printer yourself. Do not reinstall the printer in a new location. In such cases, call your service representative.



Do not damage, break, process, or heat the power cable. If it is damaged, replace it with a new one. Using a damaged power cable may cause fire or electric shock.



Never use the printer in a place of extreme humidity or any place where it can possibly be splashed by any liquid. If any liquid enters inside the printer, it could lead to fire, electric shock, or a breakdown.



Do not allow metal or liquids to touch the internal parts of the printer. This may cause fire, electric shock, or other serious hazards.



Do not disconnect or connect the power cord with wet hands. Doing so may lead to electric shock.



Ink used in the ink cartridges is combustible. Do not use or store ink cartridges near open flames, sparks, or other sources of ignition.



Turn off the printer, unplug the power cord from the power outlet, and contact your service representative in any of the following cases. Using the printer continuously in an abnormal state may result in an accident or fire.

- Smoke, strange noise or smell is generated from the printer or the printer is overheated.
- There is smoke or an unusual smell coming from the printer.
- The printer is making an unusual noise during normal operation.
- A piece of metal or a liquid (not part of cleaning and maintenance routines) has touched internal parts of the printer.
- An error requiring service by a service representative occurs.



Avoid contact between skin, eyes, and clothing and the printer's following consumables: ink, storage liquid, cleaning liquid, cap cleaning liquid, wiper cleaning liquid, and waste ink.

- In case of contact, immediately wash your skin with soap and water.
- Use an approved eye wash station if ink splashed into your eyes and consult a doctor if necessary. If an approved eye wash station is unavailable, rinse your eyes with cold water and consult a doctor. Remove clothing soaked with ink to avoid contact with your skin.

Do not swallow ink. If swallowed, do not induce vomiting but seek immediate medical attention.



Do not place the printer on an unstable table or at a slant place. If it falls, it may lead to injury.



Do not touch heater surfaces in the media path. This may cause burns.



Keep ink cartridges and waste ink bottles out of the reach of children.



## CAUTION

Be sure to read warnings below before use.



Operate the printer carefully near the printer's movable parts, so that your hands or your clothes are not caught in the printer.



Install and operate the printer in a well-ventilated area. Otherwise the operator may feel sickish. In such a case, take a rest in a well-ventilated place.



Media rolls are heavy. Handle them with care using a dolly or other tools to prevent them from falling. Dropping a media roll could cause personal injury or damage to the printer.

It is recommended to carry media rolls with a dolly.



Be careful not to let ink come into contact with your skin or clothes. If ink touches your skin, immediately wash it off with soap and water.



## CAUTION

- ◆ Make sure the media rolls are secured when stored. They are heavy and may cause injury if they roll or fall.

To ensure safe operation of the Printer, pay attention to all the warnings and cautions contained throughout this manual.


## Power supply

1. Install the printer near the socket. To be able to pull out the power plug in an emergency, the power socket must be reached easily.
2. Do not share the power supply with noise generating devices such as a motor.
3. Use the power supply voltage specified on the nameplate.
4. Monthly turn off the printer and check the following:
  - The power plug is securely inserted into the socket.
  - No dust is accumulated between the plug terminals and the socket. When dust is found, clean the area with a dry cloth.

## Printer

1. Do not place anything on the top of the printer. Do not rest your elbows on the printer.
2. Do not apply shock or stress to the printer.
3. During the print operation, do not open the front cover, nor set the pressure roller lever to the open (top) position. Otherwise the printer operation will end.
4. Do not clean the cover's surface with benzene or paint thinner. This may damage the printer's paint. Clean the cover's smear with a soft cloth. If the cover is considerably smeared, wipe it off with a cloth moistened with water-diluted neutral detergent. If it is not cleaned, the printer's surface paint may be damaged.
5. Always use the OKI Data specified attachments and options. The other products may degrade the image quality, damage the printer, and make maintenance impossible.

## Regular inspection and maintenance

Due to solvent ink characteristics, inspection and maintenance need to be performed periodically. (For details on maintenance, see the Maintenance section starting on  **page 89**.)

1. Perform the start maintenance every day before starting using the printer.
2. Pay particularly attention to the items below.
  - Supply wiper cleaning liquid when the bottle is empty.
  - Print heads are highly-precise parts. Do not wipe the nozzle surface directly.
3. If you stop using the printer for more than 2 weeks, perform the service cleaning.
4. If, after the service cleaning, you have left the printer for a long time and you start printing with the printer again, be sure to perform the head cleaning operation and to prime the ink system.
5. The printer performs periodically automatic maintenance operations. Keep the printer always to allow it to perform these maintenance operations.

## Consumables

1. OKI Data ink cartridges should be installed before the **Install By** date printed on the pack. Other non-genuine ink cartridges may damage the printer. In this case, printer repair fees will be borne by you.
2. To guarantee print quality, expiration dates are indicated for ink cartridges, cleaning liquid cartridge sets, and storage liquid cartridge sets. Use these consumables before their expiration date.
3. Put used ink cartridges into a plastic bag and dispose of them as industrial waste. Observe local regulations for disposal of consumables.
4. Unpack the OKI Data ink cartridges only to install them. Do not store OKI Data ink cartridges in direct sunlight. Store the OKI Data ink cartridges in a cool, dry place. This prevents deterioration of the ink during storage.
5. Do not disassemble the ink cartridges. They are intended for single use only.
6. Do not drop the ink cartridges. Avoid shock to them. The drop or shock may cause an ink leakage.

### Supported media

The Printer supports solvent inkjet media of the types below. Note that print conditions may change depending on environmental conditions and the media production batch. So you are recommended to test the print with the media beforehand.

For details, contact your service representative.

- Vinyl
- Banner
- Mesh banner (with liner)
- Backlit banner (FF)
- Solvent printing coated paper

### Precautions when storing media

- When storing media, packed or unpacked, avoid direct sunlight and humidity. To avoid dust put the media into a box or a bag, and keep it in a cool and dark place.
- Avoid rapid temperature change to prevent condensation.
- Do not store media upright. A media stored upright may be deformed, move on the roll due to its weight, or may its edges may be damaged.
- Do not pile up roll media.
- Make sure the media rolls are secured when stored. They are heavy and may cause injury if they roll or fall.

### Precautions when disposing of media

- Dispose of media or printout in compliance with all local, state, and federal regulations.

### Precautions when using media

- Do not subject unpacked media to temperature and humidity variations. Before loading the media on the printer, leave the media in the operating environment for three hours or more. Note that ambient humidity variations caused by turning on or off the air conditioner may affect the media.
- The media may curl at low temperature, and wrinkle at high temperature. Keep the temperature around 23°C and the humidity around 50% when you use the media.
- Do not use a media when a part of it is scratched, wrinkled, curled, or that is covered with foreign matters. Never use a damaged media, as the right and left edges of the media are especially critical to feed media on the printer. Also, do not drop the media and avoid water stains, which may degrade the image quality and cause the printer to malfunction.
- Do not touch the printed part of the media. Always hold the media by the margin. The image quality may be degraded by human sebum and sweat.
- If the media is wound in the shape of a cone, correct the winding before loading and using the media.

### Precautions when handling printouts

- Do not touch the printed surface of the media before the ink dries, or especially 24 hours after printing. Handle the printout by the margins.
- Do not scratch the printout to avoid lost or transfer of colors. To avoid color transfer, do not stack printed media on one another with their printed surface facing in contact.
- Do not put printed media on a printout from a copier or laser printer. The printouts' ink or toner may make the two printouts to stick together.
- Note that ink on a printed surface may come off if the surface is rubbed hard or scratched.
- The printed image may bleed or disappear if scratched or left while being wet.

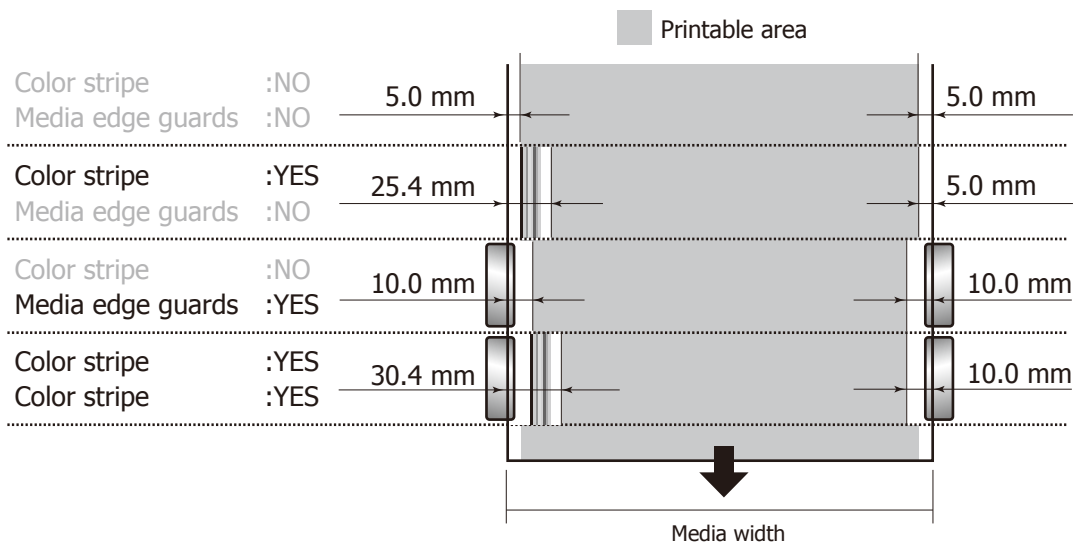
## Other precautions

- Media loses its color and quality with age. Check the media condition and select the media in the best condition.
- Cut the media carefully, as paper dust may make irregular surfaces.
- When adhesive-backed media is applied, some adhesive agent may be left on the platen, which may cause a media jam. So clean the agent completely with a soft cloth moistened with the neutral detergent.

## Available area on media

The available area on media in the scanning direction depends on the media width, the media edge guards application, and the presence of the color stripe. With the media edge guards and color stripe applied, the available area decreases by 34.9 mm on the right and 10.0 mm on the left.

Without mesh printing kit nor wide type media edge guards for platen sheet





# Manual legend (Notational rules) —

The notational rules used for explanation in this guide are as follows:

## Marks

### **WARNING**

◆ Boxes marked with a **WARNING** describe points of caution to avoid serious personal injury.

### **CAUTION**

◆ Boxes marked with a **CAUTION** describe points of caution to avoid injury to yourself or damage to the printer.

### **TIP:**

◆ This mark indicates useful information, additional items and important operations.

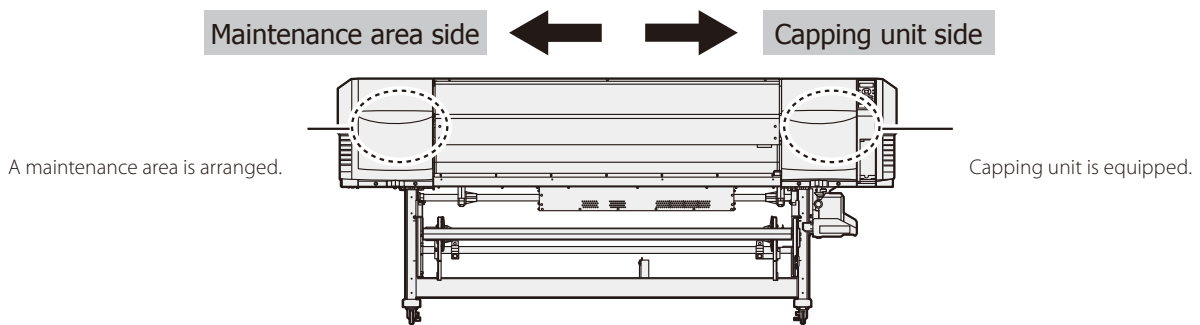


This mark is followed by a reference section or page number.

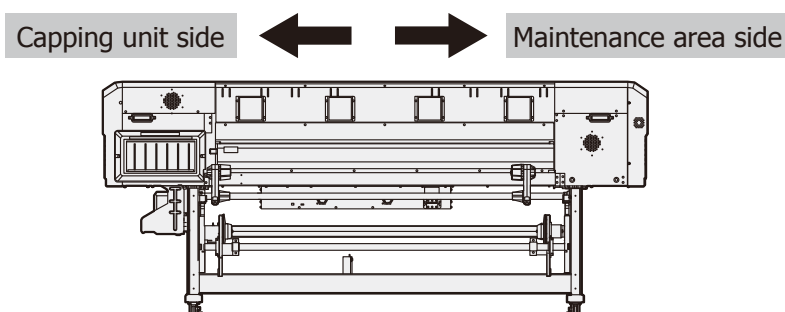
## Capping unit side and maintenance area side

To identify the printer's right and left, this guide mentions the capping unit side and maintenance area side as follows.

### Viewed from the printer's front (media take-up side)



### Viewed from the printer's rear (media supply side)



# Components delivered with the printer

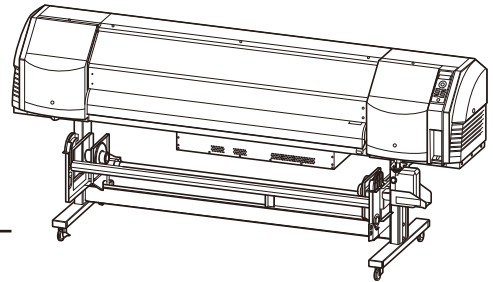
---

Various components, including optional parts, are delivered with the printer. They must be attached to the printer during its installation. Check that all the components below are delivered.

If any item is missing or damaged, contact the dealer from whom you purchased the printer or a service representative.

## Printer

- <1 unit>
- with USB interface
- with the feed unit and take-up reel unit

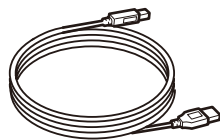


## Items packed with printer

---



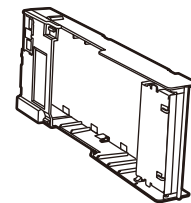
**Power cord**  
<1 piece>



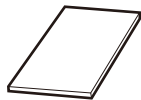
**USB 2.0 cable**  
<1 piece>



**Waste ink bottle**  
IP5-299  
<1 bottle>



**Cartridge holder**  
IP5-320  
<6 pieces>



**Quick reference guide**  
<1 volume>



**CD-ROM**  
- CP Manager  
- User's Guide  
- Quick Reference Guide  
<1 volume>



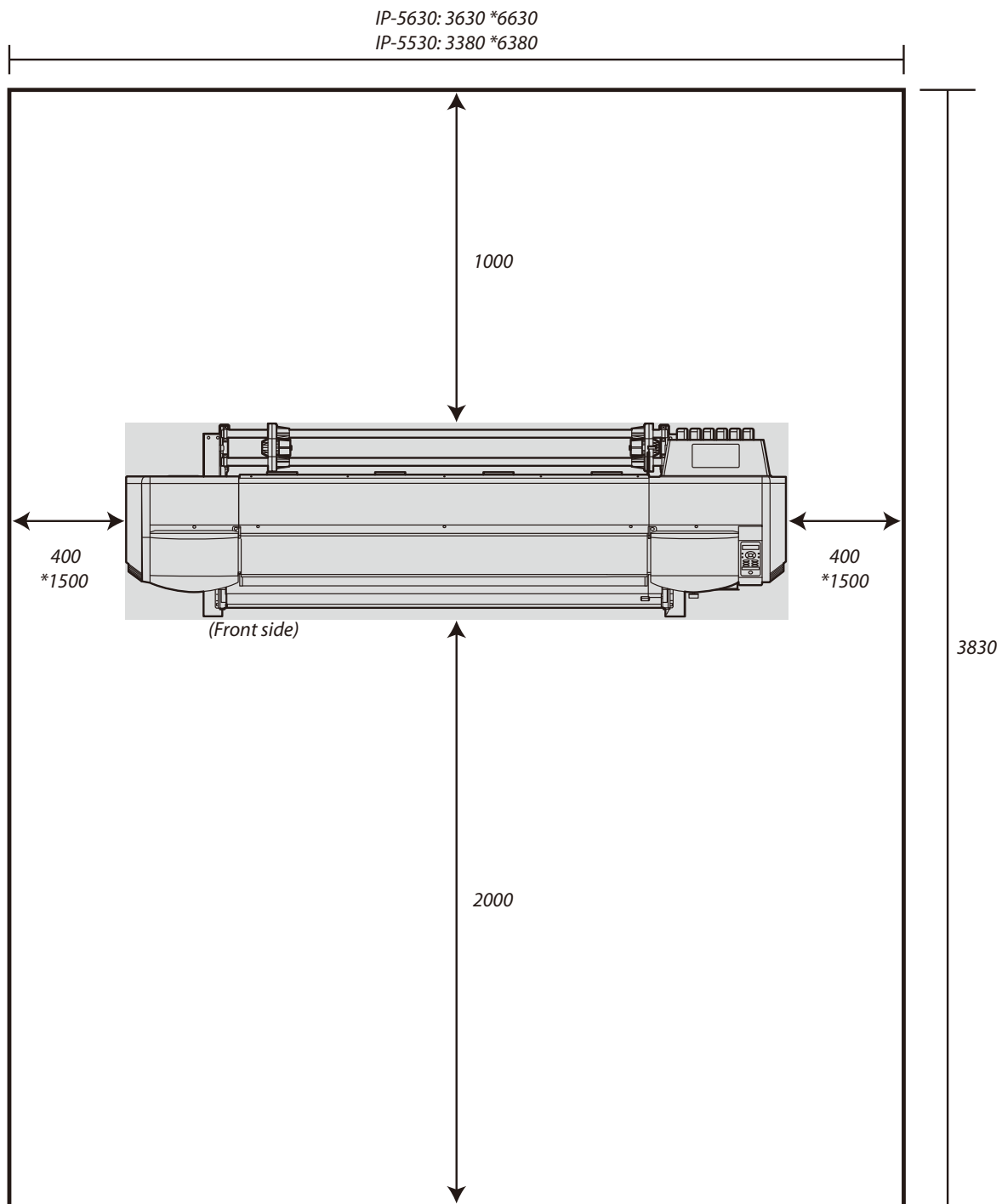
**PS-RIP**  
<1 volume>

# Operating conditions

## Installation and maintenance space

Adequate space is required around the printer for replacement of consumables and parts, print processing, and ventilation during normal operation and maintenance.

Secure the space shown in the figure below.



Secure 2200 mm in the horizontal direction.

\* : Maintenance space

(Unit: mm)

## Environmental conditions

### Operating temperature and humidity levels

Use the printer within the temperature and humidity levels shown below.

**Temperature: 15°C to 30°C (60°F to 80°F)**

**Humidity: 30% to 70%**

- To obtain better print quality, use the printer within a temperature range of 20 to 25°C (68 to 77°F).
- To ensure a stable and good print quality, the printer slows down the print speed when the head temperature exceeds 40°C (104°F).

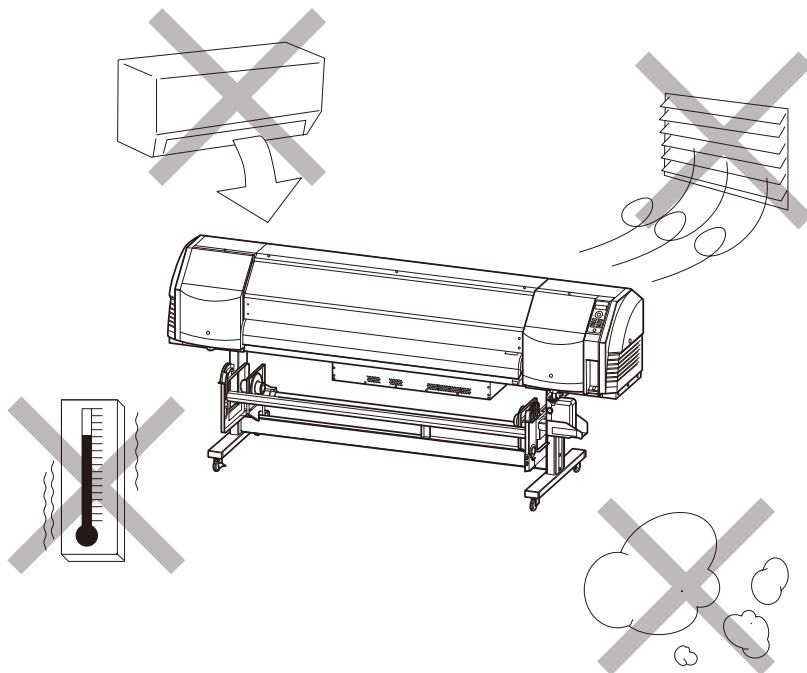
### NOTE

- ◆ If the Printer is not used within the operating temperature and humidity ranges, the print process may stop or the print quality may be degraded.

### Places where the printer should not be installed

Do not install the printer in the following places.

- Places near a fire
- Places exposed to direct sunlight
- Places subject to vibration
- Places with excessive dust
- Places subject to extreme changes in temperature or humidity
- Places near an air conditioner or a heater
- Places where the printer may get wet
- Places exposed to direct exhaust air from an air vent
- Places near a diazo copier that may generate ammonia gas
- Places with poor ventilation
- Unstable places



# FFTSS Library, Employed by the Software Installed on the Printer —

The software of the controller integrated in the printer (hereinafter called as Software) employs the FFTSS Library developed by Dr. Akira Nukada.

The FFTSS Library is a part of the research achievement of the project,

The Innovation of Simulation Technology and the Construction of Foundations for Its Practical Use in the research area,

Development of Software Infrastructure for Large Scale Scientific Simulation

promoted by the Strategic Basic Research Programs(CREST) of Japan Science and Technology Agency.

The Software including the FFTSS is supported by OKI Data Corporation, and the FFTSS library's developers and its related organizations do not undertake any responsibility and obligations on the Software.





# *Before printing*

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

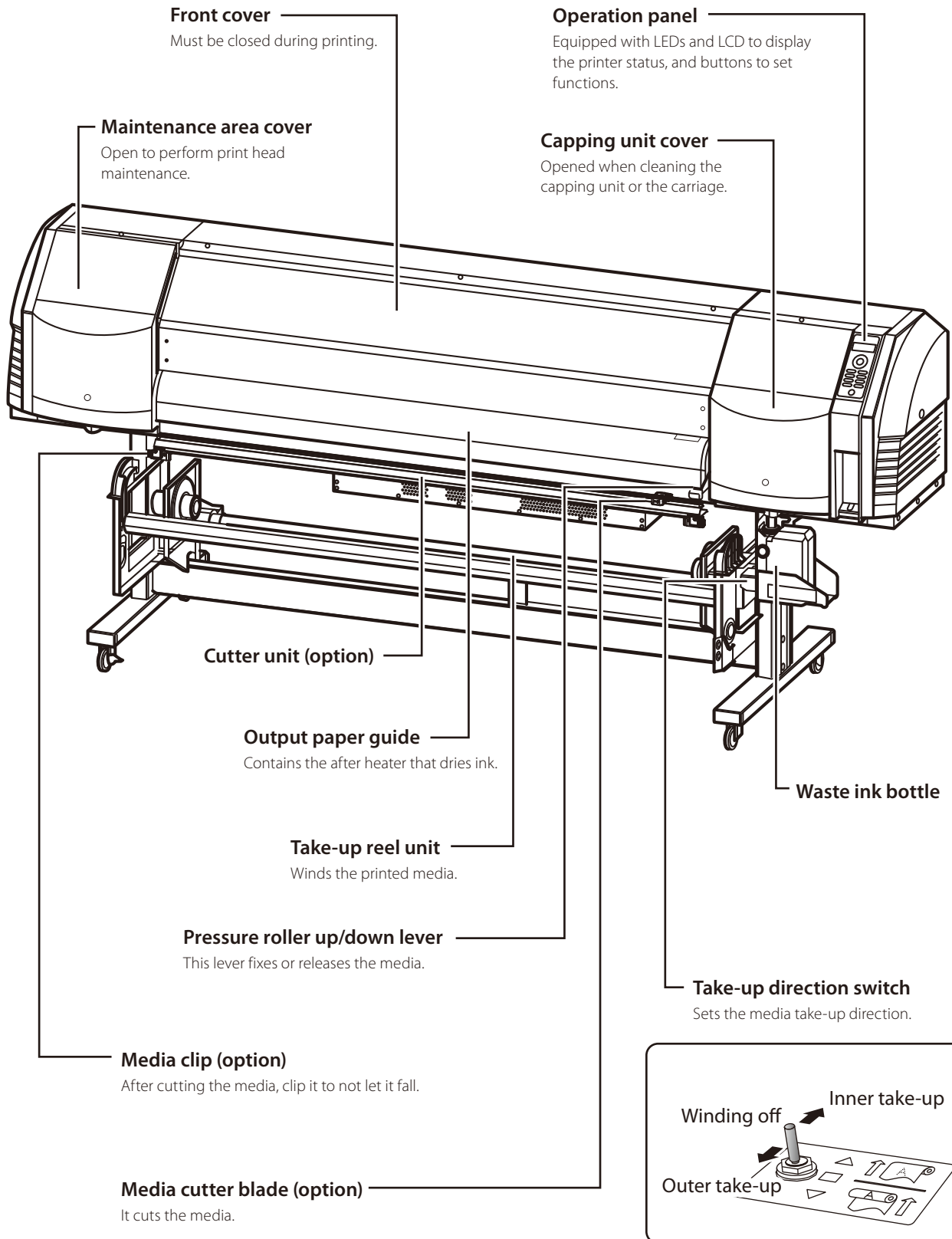
Troubleshooting

Menu tree

Appendix

# Appearance / Main components

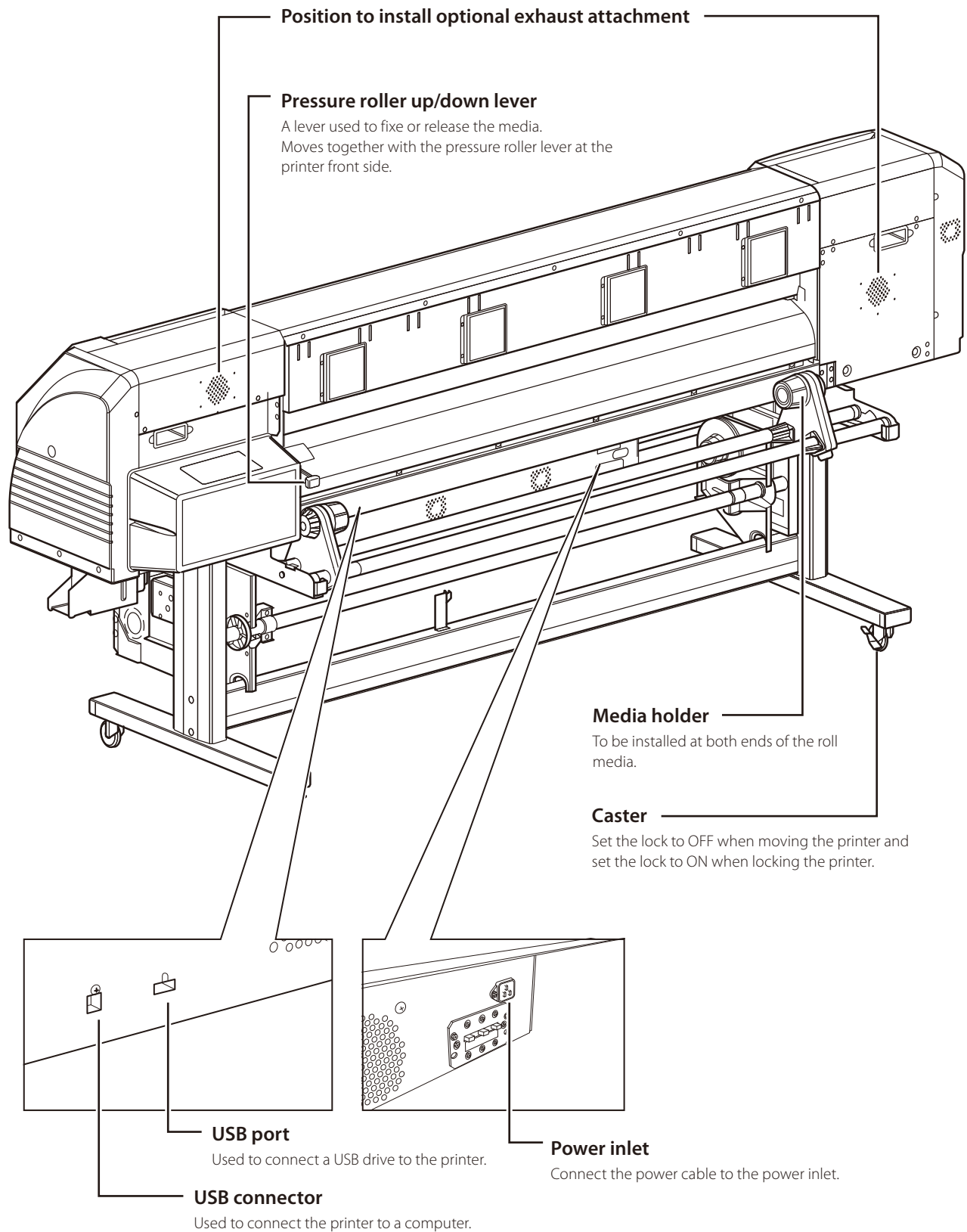
## Printer front (take-up side)





# and their functions

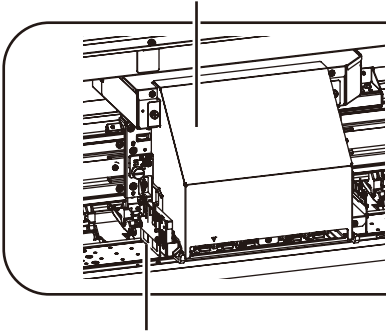
## Printer rear (supply side)



## Printer interior

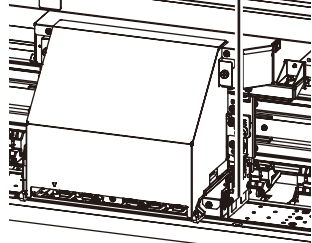
### Carriage

Houses the print heads inside, and prints image while moving over the media.



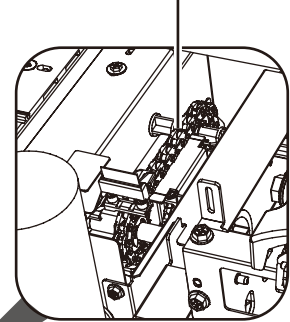
### Sensors for automatic print adjustment

Optical sensors used for automatic print adjustment.



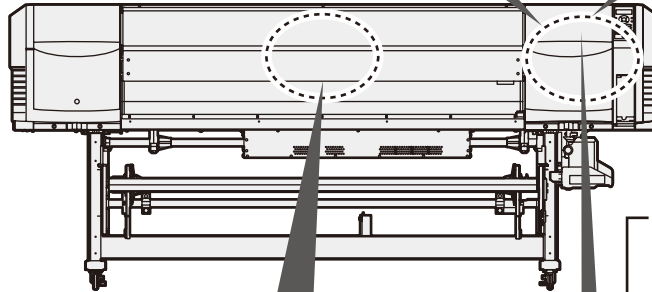
### Wiping unit

Removes foreign substances on the print head's nozzle surface.



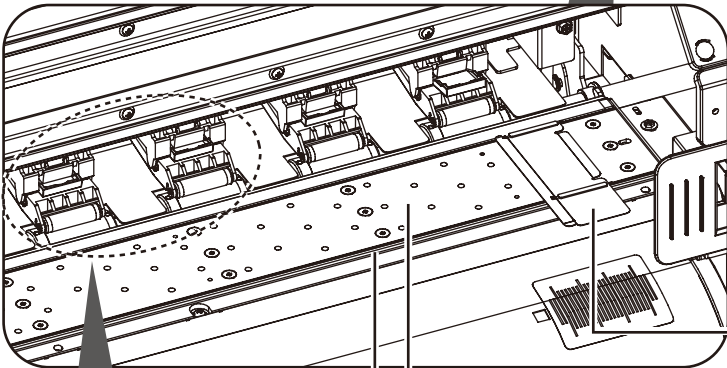
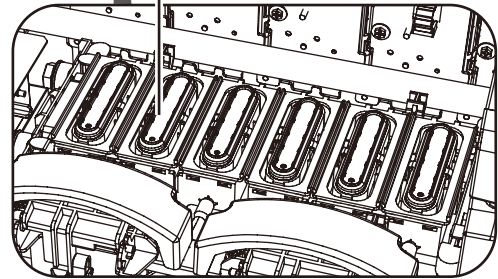
### Ionizer (option)

Removes static electricity from the media and reduces print defects caused by ink mist.



### Capping unit

Prevents the print head's nozzles from drying.



### Media edge guards

Prevent print heads from being damaged by deformed the media edges.

### Platen

Transports the media. The platen includes the suction fans and the printhead to dry the ink.

### Cutter groove

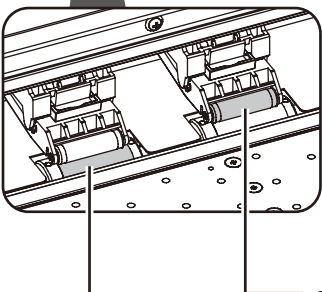
The cutter blade is inserted into this groove when cutting the media so that it is cut straight.

### Pressure roller

When lowering the pressure roller up/down lever, it pinches the media.

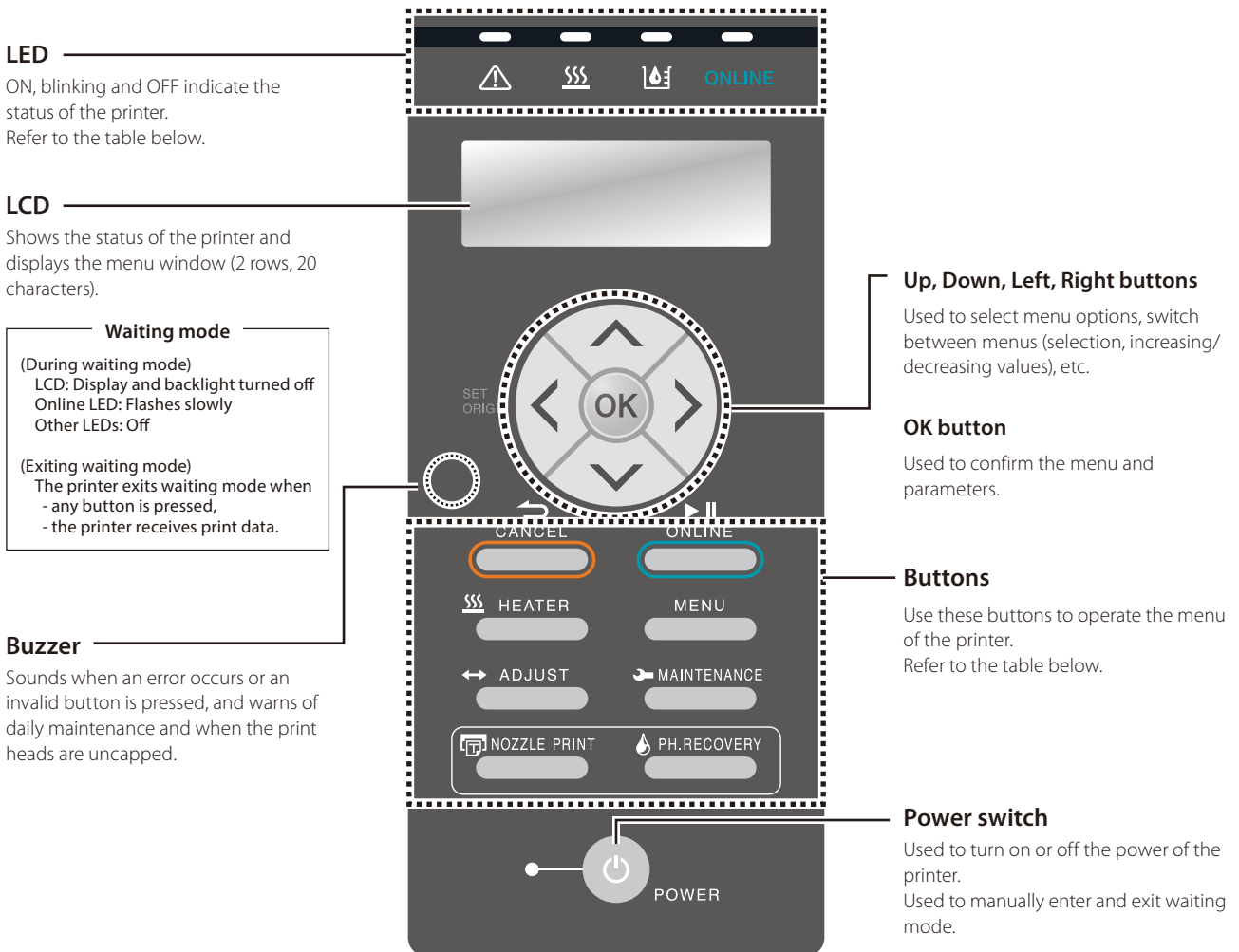
### Grit roller






The grit roller advances or rewinds the media.











## Operation panel

The buttons, LEDs and LCD are placed on the printer's operation panel as shown below. In addition, the operation panel is also equipped with a buzzer to draw attention in case an error occurs or an invalid button is pressed. The printer enters waiting mode if it is not used for a given length of time.



LED	
 Error LED (Orange)	Indicates whether an error has occurred. ON: An error has occurred. Blink: Warning state. OFF: Normal (no error)
 Media heater LED (Green)	Indicates the status of the media heater. - ON: The set temperature has been reached - Blink: Currently heating - OFF: Media heater is off
 Ink LED (Green)	Indicates whether ink is remaining. ON: Ink for all colors is present. Blink: Ink near-end (The level of any color is low.) OFF: No ink.
 ONLINE LED (Green)	Indicates the online, offline, data reception, and pause status. - ON: Online - Blink (slowly): In pause - Blink (fast): Data reception - OFF: Offline
 Power LED (Green)	Indicates whether the printer is turned on or off. - ON: The printer is turned on. (The LED is lit also when the printer is in waiting mode.) - OFF: The printer is turned off.

Buttons	
 CANCEL	Cancels entered parameters or returns back to the upper menu.
 ONLINE	Switches between online and offline states, and puts the printer in pause or resumes printing.
 HEATER	Enters heater control menu.
 MENU	Used to display information about the printer and change printer settings.
 ADJUST	Used to enter the adjustment menu.
 MAINTENANCE	Used to enter the maintenance menu.
 NOZZLE PRINT	Used to perform a nozzle print.
 PH.RECOVERY	Used to enter the cleaning menu.

## LCD messages

This LCD installed on the printer operation panel can display two rows of 20 characters.  
Examples of messages displayed on the LCD are shown below.

### Menu display

The level of the menu is indicated by the number of > marks displayed at the left of the upper row on the LCD.

Top menu:

Top menus are displayed when the **MENU** button, the **ADJUST** button or other menu buttons are pressed. No > marks are displayed for top menus.

<Display example>



Level 1 to level 4 menus:

A > mark is added each time a lower menu is selected starting from a top menu.

<Display examples>



### Menu and parameter selection display

A ↑ mark is indicated at the left of the lower row on the LCD when menus or parameters can be selected in the current menu using the Up and Down buttons.

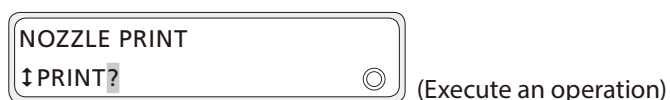
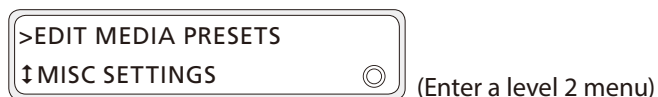
<Display examples>



### OK button input display

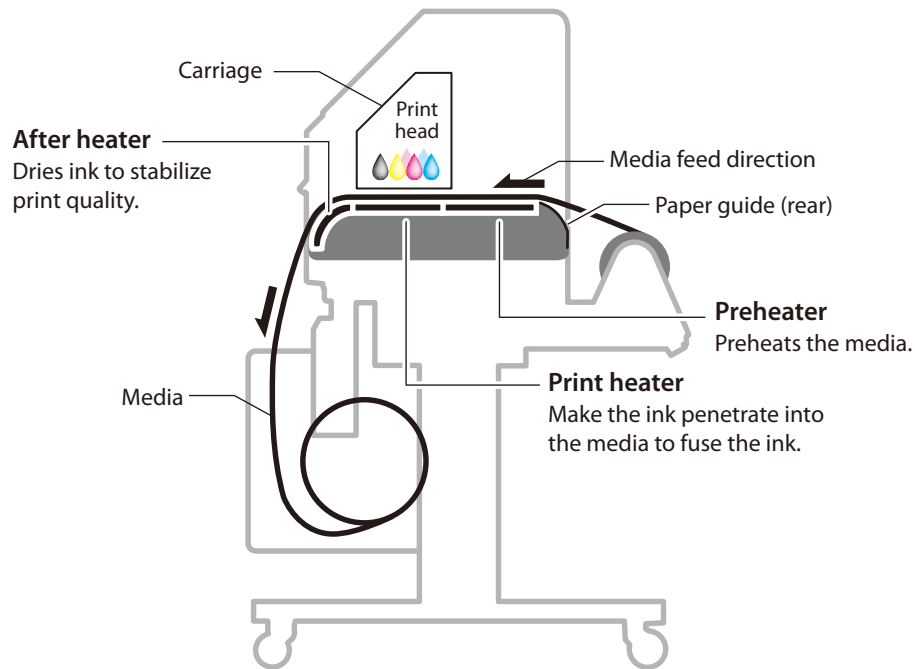
A ○ mark is indicated at the right of the lower row on the LCD when you can enter a menu or execute an operation in the current menu by pressing the OK button.

<Display examples>



## Printer heater unit

The printer is equipped with three heaters for ink fusing and image quality stabilization.



\* These three heaters are controlled independently.

The temperature of the heaters can be controlled from the operation panel, the RIP software and CP\_Manager.

### **WARNING**

◆ Do not touch these heaters to avoid burn as they become hot.

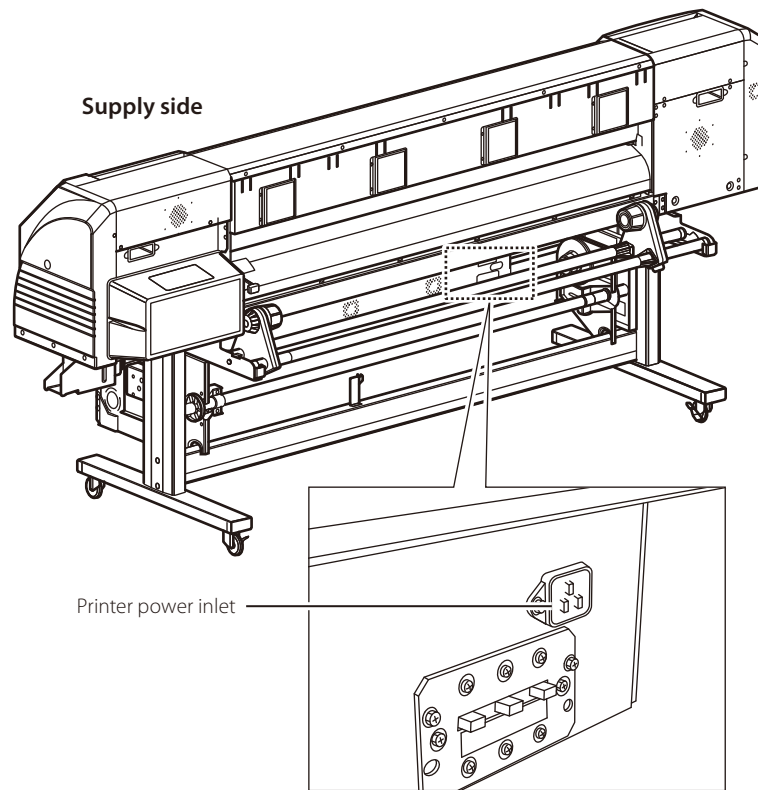
 **Hot parts.**  
**Do not touch.**

# To turn the printer on and off

## CAUTION

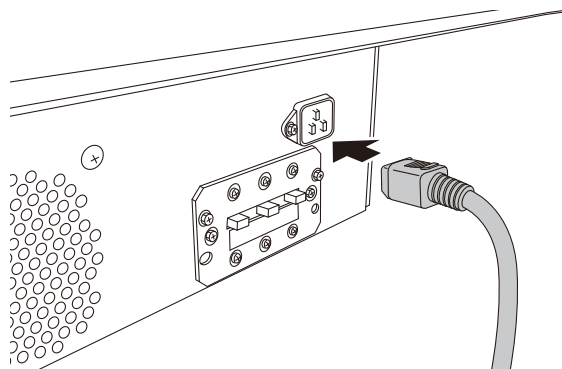
- ◆ Do not use any power cable other than the one supplied with the printer.

Use the power switch on the operation panel to turn the printer on and off.



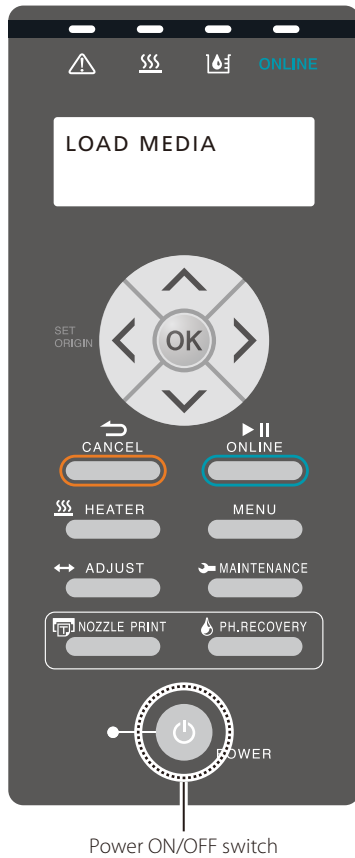
## Power-on procedure

1



Plug one end of the supplied power cable into the printer power inlet and the opposite end into a power outlet.

# 3



## Press the power switch on the operation panel.

The printer executes a self-diagnostic test and displays the message to the left on the operation panel.



### If an error message appears...

- ◇ To recover the error, refer to **When an error message is displayed.**
- ◇ If the LEDs on the operation panel do not turn on after turning on both the power switches at the rear of the printer and on the operation panel, there is a problem with the power supply.

## CAUTION

- ◆ Except for emergency, turn off the power while the message **PRINTER READY** is displayed. If the power is turned off when the printer is displaying **INITIALIZING...** or **CLEANING**, the ink may dribble, the print head may be damaged, or saved parameters may be lost.

## Power-off procedure

1

SHUTTING DOWN...  
PLEASE WAIT

**To turn off the power of the printer, keep the power switch on the operation panel pressed for 2 seconds.**

The message shown above is displayed on the LCD to indicate that the shutdown process is being executed. The power turns off after the shutdown procedure is finished.

However, maintenance operations are automatically performed to maintain the printer in good condition. Therefore, always keep the power of the printer on.

If you need to temporarily turn the printer off in case of emergency, for cleaning, or other reasons, use one of the following methods to turn it off.

<b>Method 1:</b> <b>Keep the power switch pressed for 2 seconds.</b>	Usually, use this method to turn the printer off. During shutdown, the fill cap operation (state where the cap is filled with ink) is performed to keep the print heads in good condition.
<b>Method 2:</b> <b>Keep the power switch pressed for 2 seconds while holding the CANCEL button.</b>	This method can be used to turn the printer off only for a short time (less than 1 hour). With this method, the fill cap operation is skipped and the printer is turned off.

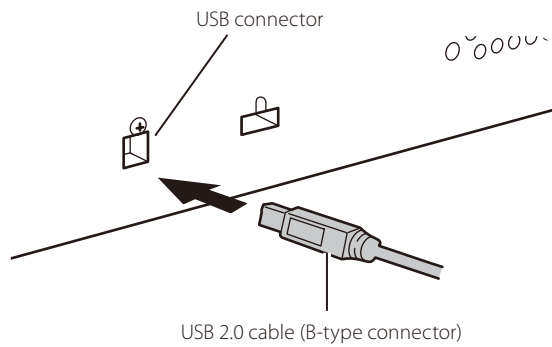
### Notes

- ◆ After turning the power off, wait at least 5 seconds before turning it back on.
- ◆ To keep the print heads in good condition, the printer perform automatically and periodically the fill cap operation while in standby mode. It is recommended to keep on the power switch on the operation panel during this operation.



# To connect the USB cable

1



Connect the printer's USB 2.0 cable to the USB connector at the center of the printer rear.



## Important!

- ◇ Use the supplied USB 2.0 cable.
- ◇ For the USB connection and related systems, use hubs and cables supporting USB 2.0. Note that normal operation cannot be guaranteed if the hubs, cables, and the other related devices are not USB-compliant.
- ◇ Use a cable of 5 m or shorter. If the connection length exceeds 5 m, use hubs to extend the connection. The hub quantity must be five or less in total. Note that normal operation cannot be guaranteed if the cable exceeds 5 m, or if the cable connection exceeds 5 m without hubs.

# Online and offline

The printer operates in both online and offline states.

When the printer is in online:

- The printer prints the data sent from the computer's Raster Image Process (RIP) software.

When the printer is in offline:

- The menu is operated with the operation panel buttons.

The Online button switches between online and offline states.

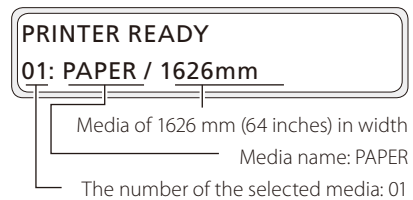
When the **MENU**, **ADJUST**, **MAINTENANCE**, **NOZZLE PRINT**, or **PH.RECOVERY** button is pressed in online state, the printer switched to offline to make menu operations possible.

## Online



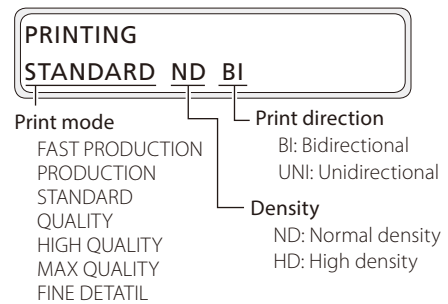
When the **ONLINE** LED is on, the printer is online.

### Online state (idle mode) display



When the **ONLINE** LED blinks, the printer is printing.

### Online state (print mode) display



## Offline



When the **ONLINE** LED is off, the printer is offline.

The message displayed on the panel when the printer switches to offline differs depending on the button that has been pressed.

When the **ONLINE** button is pressed:



When the **ADJUST** button is pressed:



When the **PH.RECOVERY** button is pressed:



### When an operator call error is displayed...

- ◇ When an operator call error (page 219) is displayed, the printer may not operate even if the **CANCEL** button is pressed.

# CP\_Manager

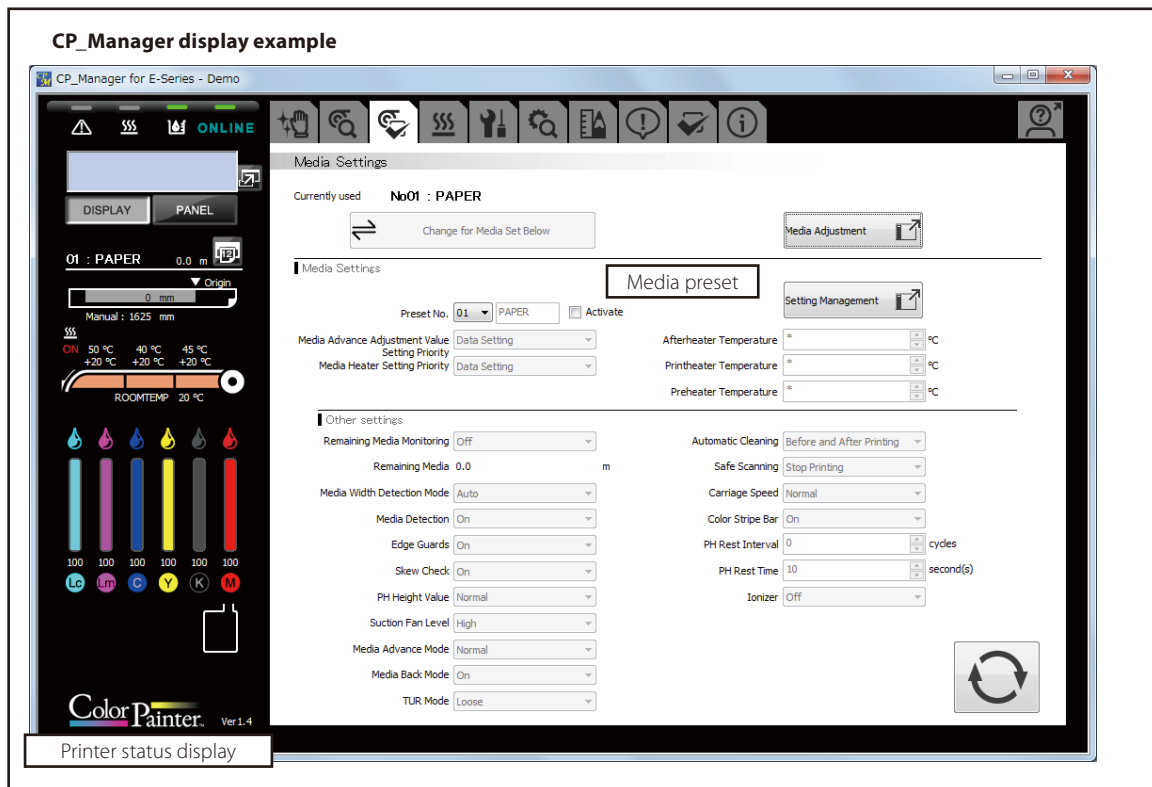
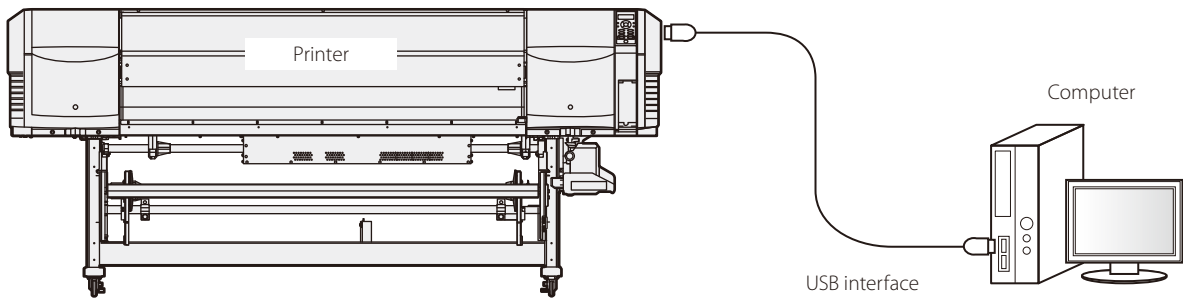
The Printer supports the CP\_Manager software which provides a general view of the printer status. The following operations can be performed with CP\_Manager™.

## Panel operations

- Display the printer status
- Create media preset, input adjustment values
- Execute nozzle print, adjustment patterns print
- Maintenance time notice, maintenance operation

## Additional functions

- Display operation guidance
- Display the instruction manual (PDF)



Install CP\_Manager™ using the CD-ROM supplied with the printer.

# Supported media

## Vinyl

Vinyl is media with PVC-material surface. As generally vinyl is adhesive-backed, by removing the release paper on the back you can stick the media easily. Depending on its gloss grade, the vinyl is classified into three categories: glossy vinyl (with high gloss), matte vinyl (with no gloss), and semi-glossy vinyl (with medium gloss).

When the media is applied on some prints, a gray adhesive-backed vinyl is effective to avoid the prints seen through the top media.

For backlit purpose application, the PVC material surface is sometimes transparent or translucent.

## Banner

Banner is polyester fiber cloth media with both sides coated with synthetic plastic film such as PVC. As the banner is water- and tear-resistant, it is used for tent canvas, construction wrap sheets, and inkjet-printed banner advertisements.

Depending on its gloss grade, the banner is classified into three categories: glossy banner (with high gloss), matte banner (with no gloss), and semi-glossy banner (with medium gloss).

## Mesh banner (with liner)

Mesh banner is perforated banner media reinforced with mesh grid. As its open structure allows wind to permeate, the mesh banner is wind- and tear-resistant, and withstands heavy wind.

Depending on whether liner (ink absorbing back sheet) is present, the mesh banner is classified into two categories: backed and unbacked.

## Backlit banner (FF)

Backlit banner flexible face (FF) is translucent, that is, semi-transparent banner media. Thanks to that, it is used for backlit signs inside light boxes.

Compared with an acrylic sign, the backlit banner is lightweight and easy to handle, wind- and tear-resistant, and highly safe. It can withstand strong wind pressure.

## Solvent printing coated paper

Solvent printing coated paper is a type of paper media with a coated printing surface that facilitates solvent ink adhesion and renders vivid colors.

Its thickness depends on the product type. When the media is applied on some prints, a blue back type is effective to avoid the prints seen through the top media.

# *Loading the media*



Before printing

**Loading the media**

Adjustment

Maintenance

Advanced operations

Troubleshooting

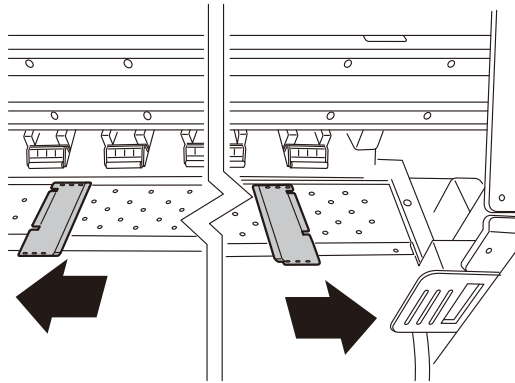
Menu tree

Appendix

# Loading the media on the printer

## Procedure to load roll media

1

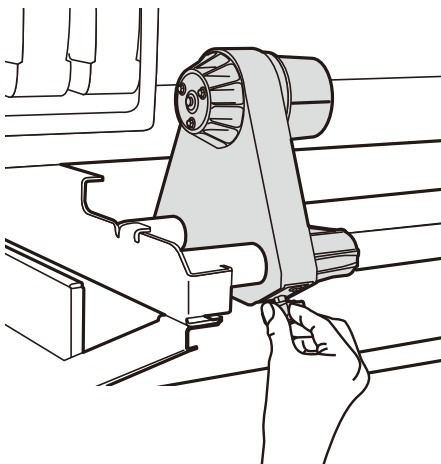


Open the front cover and slide the media edge guards to each end of the platen. Then, close the front cover.

### ! Notes

- ◆ Move the media edge guards to both ends so they cannot enter under the media.
- ◆ After completing the media replacement work, set the media guards. After completing the media replacement work, set the media guards (see Step 12 on [page 44](#)).
- ◆ When using media with adhesive applied to the core at the end of the roll, this adhesive may stick to the paper guide or the platen. In this case, always clean up the adhesive before using the media.

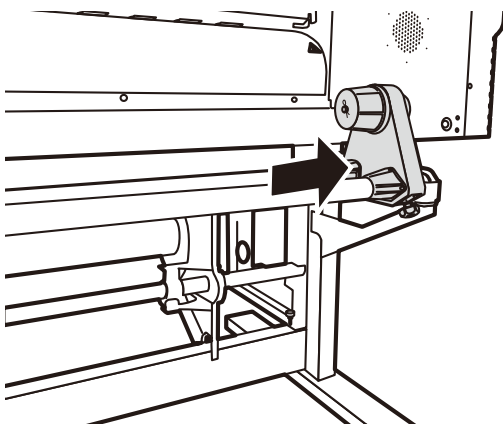
2



Put the left side media holder in position and fix it temporarily by turning the screw.



3

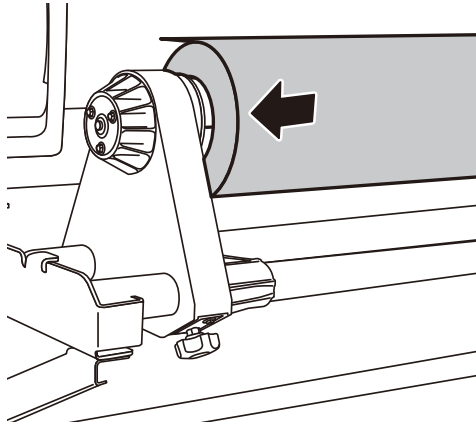


Move the right side media holder to the right end.

### ! Note

- ◆ When using media with adhesive applied to the core at the end of the roll, this adhesive may stick to the paper guide or the platen. In this case, always clean up the adhesive.

# 4



Set the roll media to the media holder fixed on the left side.

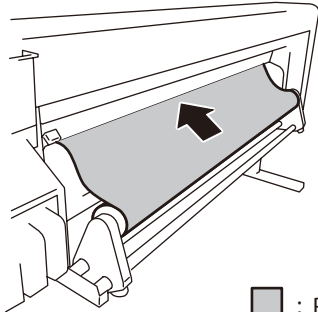
### Notes

- ◆ When inserting the roll media in the media holder, be careful not to cause the media to shift on the roll or damage the end surface of roll media.
- ◆ Make sure that the core is securely fixed to the roll holder by inserting it completely.

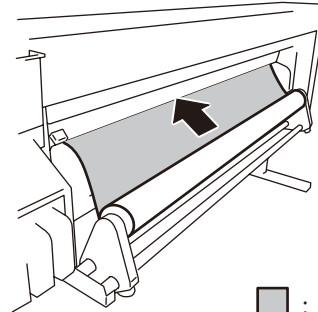


### Media setting direction

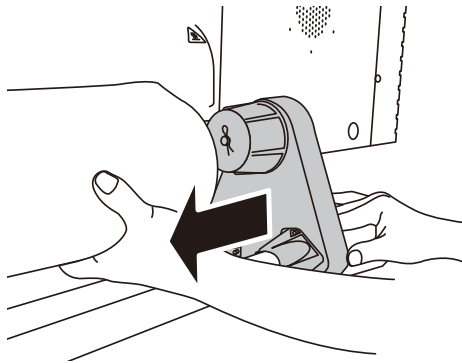
<In case of roll media with print side outside>



<In case of roll media with print side inside>

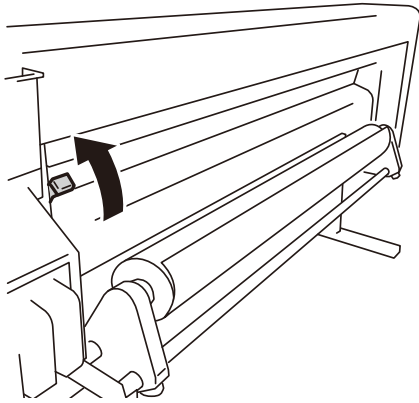


# 5



Set the roll media to the right side media holder.

6



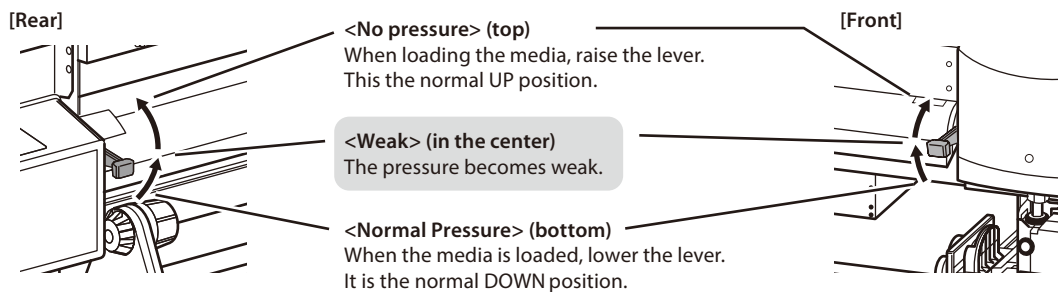
Raise the pressure roller up / down lever.

### ! Note

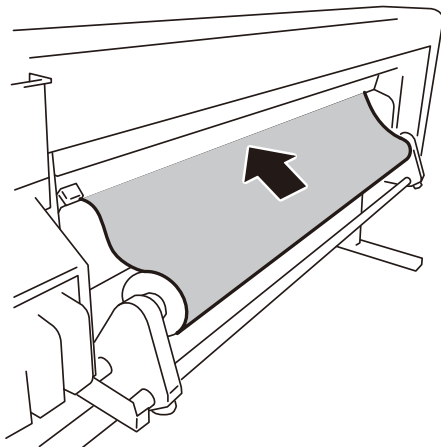
- ◆ There are three selectable positions (up, middle and down) on the pressure roller up / down lever. To raise (release) the pressure roller here, raise the pressure roller up / down lever to the top position.

### ! Note

- ◆ Switch over the pressure between the pressure roller and the grit roller used for media feeding to match different media. The bottom position is normally used. When skew occurs in the media and the media cannot be fed or when using a media with weak elasticity such as a thin cloth, switch to [weak], the center position. The pressure force is switched using the pressure roller up / down lever. (See figure below.)



7



**Feed the media between the pressure roller and grit roller and advance the media until the leading edge of the media comes out of the front cover.**

Advance the media until the leading edge of the media comes out at a distance of 200 mm.

When the leading edge of the media comes out of the front cover, a confirmation beep sounds.

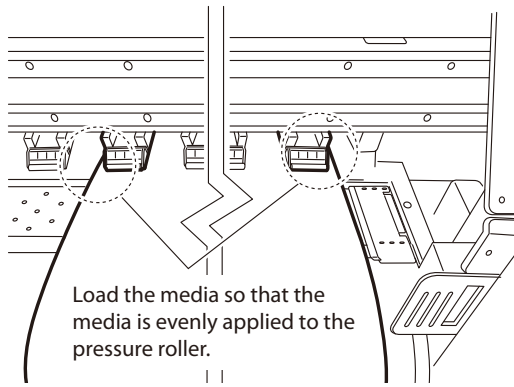


### ! Notes

- ◆ Depending on the environment, the media may stick to the paper guide and may be hard to advance. In this case, advance the media while raising it from the paper guide by holding both edges with hands.
- ◆ If the leading edge of a media is curled up or curled down, the media may be caught in the printer or may not be properly set. If the media is curled too much, do not use it.
- ◆ Be careful that the leading edge of the media does not touch the front cover. If the roll media tends to roll, stretch it to eliminate the rolling before loading.
- ◆ Check that the media edge guard does not enter under the media.



# 8

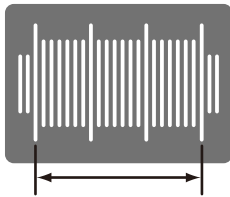


Load the media so that the media is evenly applied to the pressure roller.

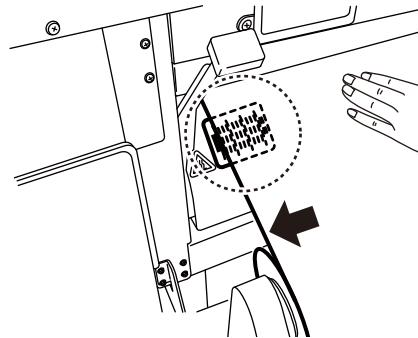
Move the media holders so that the both edges of the media are equally distributed on the pressure roller.



◇ Noting the relationship between the label gradation (indication line) and the media width will let you easily adjust the position next time you will set the media.



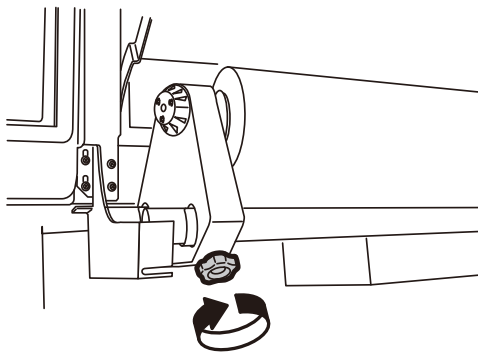
Set so that the end surface of the media comes within this range.



## ! Note

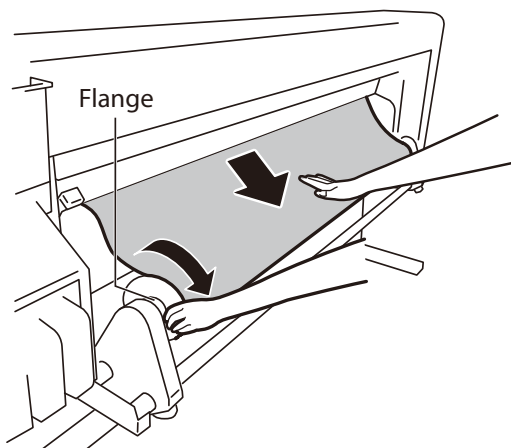
- ◆ If you shift the media only, skewing will occur. Adjust the load position by moving the media and the media holders together.

# 9



Secure the positions of the right and left media holders by turning the screws.

# 10

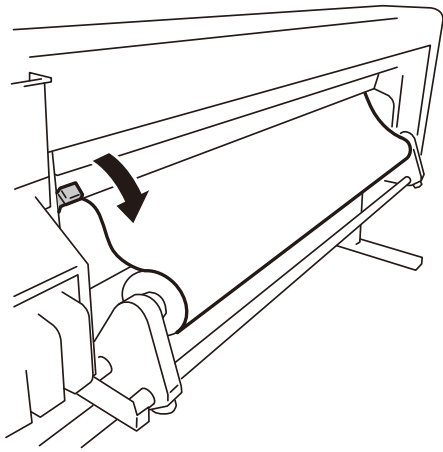


Hold the center of media with your hand and turn back the flange to eliminate the slack.

## ! Note

- ◆ Do not forcibly align the edge of media to the indication line. Set the media straight with regard to the roll.

11



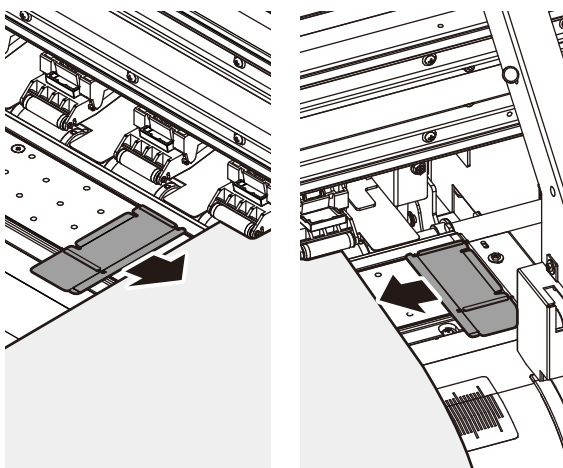
**Lower the pressure roller up / down lever.**

After this, follow the instructions on LCD screen.

**! Note**

- ◆ To lower (press) the pressure roller, lower the pressure roller up/down lever to the lowest position (see the Note of Step 6 on page 42).

12

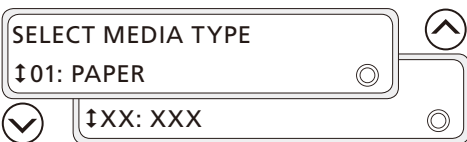


**Open the front cover and align the media edge guards over the both ends of the media. Then, close the front cover.**

Check that the media edge guards do not go under the media and that thick media is not stuck between them.

After visually confirming that the media edge guards are properly set, press the **OK** button.

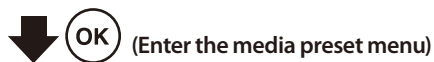
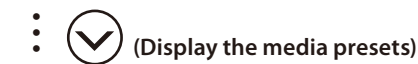
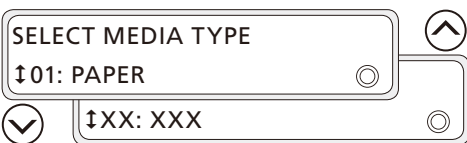
13



**Select the media type.**

Select a registered media type using the **Up** and **Down** buttons, then press the **OK** button.

14



**To create a new media preset**

At the end of the media preset list, **CREATE NEW PRESET** is displayed.

Press the **OK** button to enter the media registration menu.

The procedure to create a preset is the same as in the MEDIA REG menu.

Press the **CANCEL** button to cancel the entered parameters.

# 15

ENTER REMAIN MEDIA  
↑01: XXX.X→YYYY.Ym

## Set the amount of remaining media.

Set the amount of remaining media and press the **OK** button.



### To register the amount of remaining media

The menu used to set the amount of remaining media is displayed only when **ON** is set for **REMAIN MEDIA MONIT** in the media preset menu.

See **Procedure to monitor remaining media** on **page 47** for details on how to configure remaining media monitoring.

# 16

CHECKING MD EDGES  
PLEASE WAIT

## The media loading operation starts automatically.

- When the operation completes successfully, the printer returns to the online or offline state.
- If the operation fails, an error message is displayed.

In this case, perform the procedure again starting from step **1**.

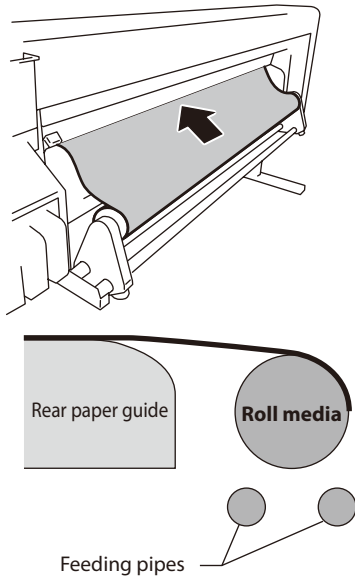
### Notes

- ◆ After loading the media, check that it does not enter the space of the media cutter blade (option), it is not caught by the media clip (option), there is no gap between the media and the platen, and the media is not wrinkled.
- ◆ With tarpaulin and other high basis weight media, limit the media slack on the media roll side to 15 cm. The weight of the loose media may unwind the roll media.
- ◆ When rewinding more than 30 cm of the media, do not rewind it at once but execute the operation slowly while eliminating the slack by rotating the media by hand.

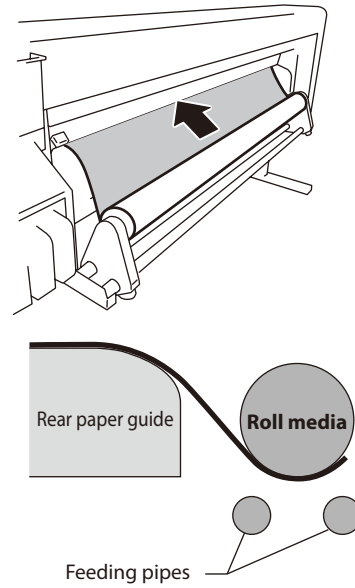
### <Correct installation>

Make sure that the media is stretched tight as shown in the figure below.

<In case of roll media with print side outside>



<In case of roll media with print side inside>

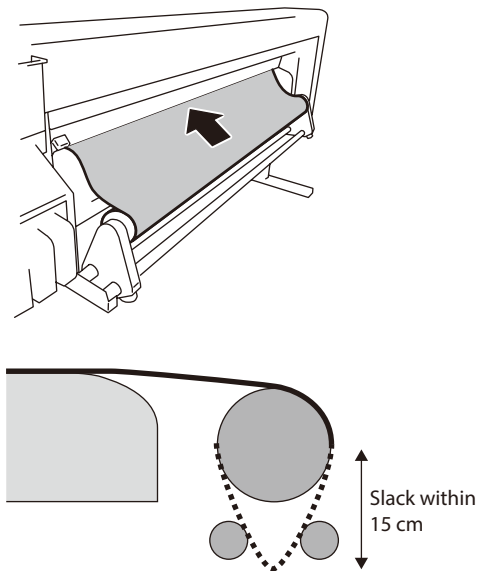


### <Incorrect installation>

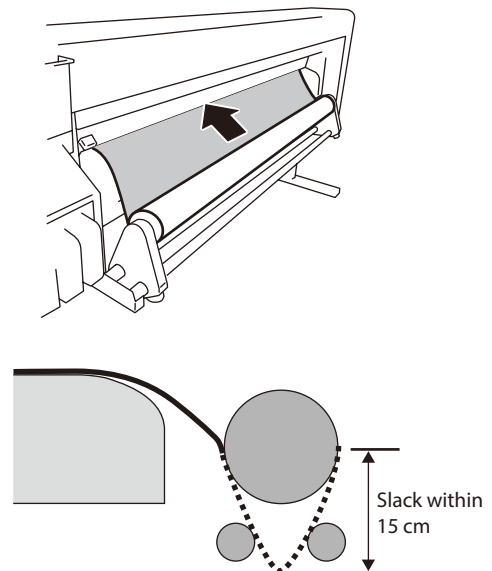
Eliminate the slack so that the media does not become like in the two examples below. The figures on the upper parts are perspective views of the printer rear side. The figures on the lower parts are sectional views of the paper feed mechanism. The slack is in gray in the perspective views and in dashed line in the sectional views.

Example 1

<In case of roll media with print side outside>

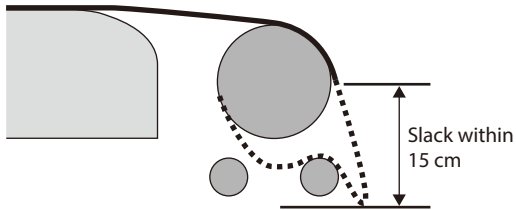
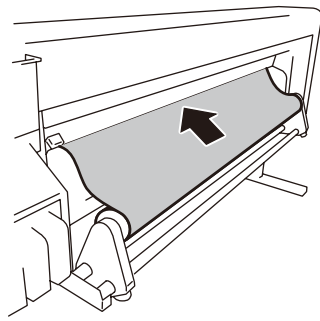


<In case of roll media with print side inside>

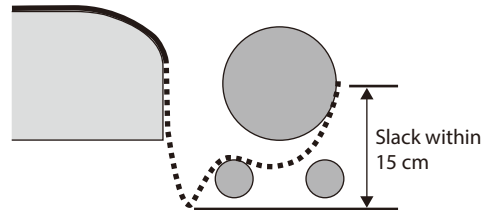
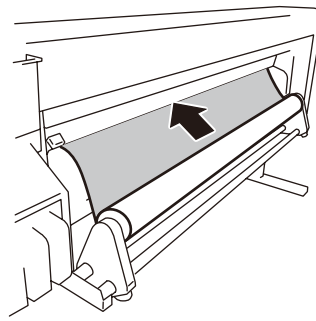


## Example 2

<In case of roll media with print side outside>

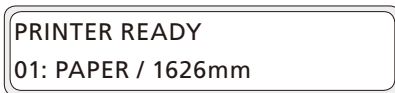


<In case of roll media with print side inside>



### Procedure to monitor remaining media

1



MENU

2



3



4



5



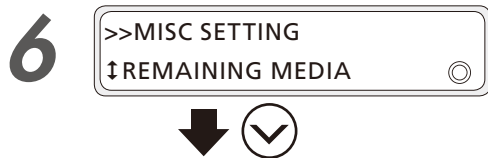
Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

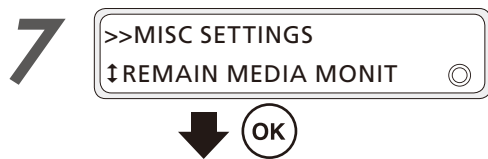
Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.



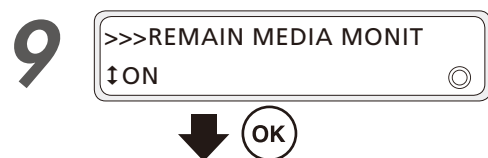
Press the **Down** button to select **REMAIN MEDIA MONIT.**



Press the **OK** button.



Press the **Down** button once.



Press the **OK** button.



- ◇ Set **ON** for **REMAIN MEDIA MONIT** in one of the following cases:
  - You want to enter the amount of remaining media when loading the media.
  - You want to print the amount of remaining media with this function.

### Procedure to load transparent media and media with a black reverse side

Configure the settings as follows when loading transparent media and media with a black reverse side.

#### **Note**

- ◆ Media end of transparent media or media with black reverse side cannot be detected. It is therefore recommended to use media whose end is stuck to the roll with glue.



Press the **MENU** button.



Press the **Down** button to select **EDIT MEDIA PRESETS.**

3

MENU  
↓ EDIT MEDIA PRESETS



Press the **OK** button.

4

>EDIT MEDIA PRESETS  
↓ SELECT PRESET NO.



Press the **Down** button to select **MISC SETTINGS**.

5

>EDIT MEDIA PRESETS  
↓ MISC SETTINGS



Press the **OK** button.

6

>>MISC SETTINGS  
↓ REMAINING MEDIA



Press the **Down** button to select **DETECT MEDIA**.

7

>>MISC SETTINGS  
↓ DETECT MEDIA



Press the **OK** button.

8

>>>DETECT MEDIA  
↓ ON



Press the **Down** button once.

9

>>>DETECT MEDIA  
↓ OFF



Press the **OK** button.

10

>>>DETECT MEDIA  
↓ OFF



- ◇ For media with a black reverse side, continue the procedure as described in Procedure to load roll media on [page 40](#).
- ◇ For transparent media, continue the procedure as described below.

11

>>>DETECT MEDIA  
↓ OFF



Press the **CANCEL** button to exit the **DETECT MEDIA** menu.

12



Press the **Up** button to select **DETECT MEDIA WIDTH**.

13



Press the **OK** button.

14



Press the **Down** button once.

15



Press the **OK** button.

16

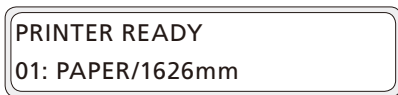


Press the **CANCEL** button to exit the **DETECT MEDIA WIDTH** menu.

17



Press the **ONLINE** button.

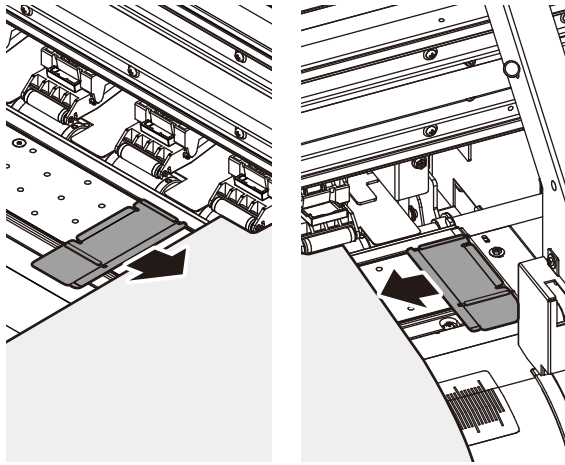


◇ To load transparent media, continue the procedure as described in Procedure to load roll media on **page 40**. But follow the procedure below for the panel operations after the media has been loaded instead of that described from the step 12 on **page 44**.



# 18

EDGE GUARDS POSITION  
OK?



Open the front cover and place both edge guards on the media edges. Place the media edges in the notches on the edge guards. Then close the front cover.

Check that the edge guards do not go under the media, or that the media advance smoothly in case of particularly thick media.

Check visually that the media edge guards are correctly placed then press the **OK** button.

Before printing

Loading the media

# 19

SELECT MEDIA TYPE  
↑01: PAPER  
↓XX: XXX



Select the media type.

Select a registered media type using the **Up** and **Down** buttons, then press the **OK** button.

Adjustment

Maintenance

# 20

SELECT MEDIA TYPE  
↑07: TRANSPARENT



**TRANSPARENT:** It is recommended to register a preset for transparent media in advance.

Advanced operations

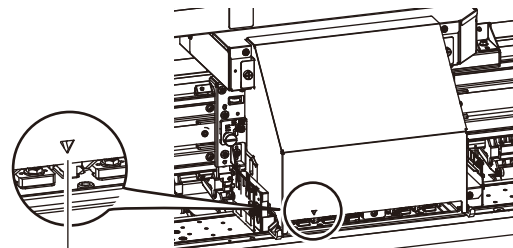
Troubleshooting

# 21

MOVE CARR. TO MEDIA  
R EDGE WITH R/L KEYS



Press the **Left** or **Right** button to move the carriage to the right edge of the media. Align the **▽** mark at the bottom left on the front of the carriage cover with the media right edge.



Move the carriage so that this mark is aligned with the right edge of the media.

Menu tree

Appendix

# 22

MOVE CARR. TO MEDIA  
R EDGE WITH R/L KEYS



Press the **OK** button when the carriage is aligned with the media right edge.

23

SET MEDIA RIGHT EDGE  
OK?



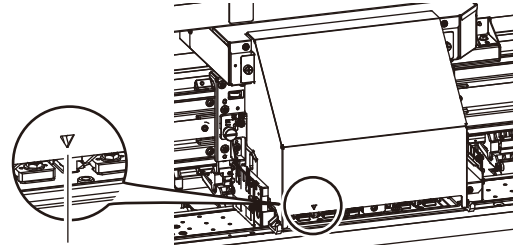
Press the **OK** button to set the media right edge position.

24

MOVE CARR. TO MEDIA  
L EDGE WITH R/L KEY



Press the **Left** or **Right** button to move the carriage to the left edge of the media. Align the  $\nabla$  mark at the bottom left on the front of the carriage cover with the media left edge.



Move the carriage so that this mark is aligned with the left edge of the media.

25

MOVE CARR. TO MEDIA  
L EDGE WITH R/L KEY



Press the **OK** button when the carriage is aligned with the media left edge.

26

SET MEDIA LEFT EDGE  
OK?



Press the **OK** button to set the media left edge position.

27

CHECKING MD EDGES  
PLEASE WAIT



The carriage returns to its previous position and the printer is ready to print (online state).

PRINTER READY  
07: TRANSPARENT/1626mm

### Notes

- ◆ **DETECT MEDIA** and **DETECT MEDIA WIDTH** settings change with the media preset. When using transparent media or media with black reserve side, it is recommended to use a media preset dedicated to these types of media.
- ◆ If you use only one media preset and transparent media and media with black reverse side, change the **DETECT MEDIA** and **DETECT MEDIA WIDTH** settings to use these types of media, and then return the settings to their previous values when using conventional media.

## Replacing the media when the end of the roll is reached

When there is no more media on the roll, the printer detects it automatically and displays a message. However, note that with some media types, the printer may not be able to automatically detect the end of the roll. If printing continues when there is no more media, the printer may get dirty or malfunction. Be sure to check visually the remaining length of media.

1

LIFT THE LEVER AND  
LOAD THE MEDIA

A message is displayed on the LCD screen.

2

Replace the media following the Procedure to remove the roll media and the Procedure to load the roll media.

## Replacing the media after a media jam

Refer to [How to clear a media jam](#) on [page 213](#).

## Setting the media remaining length

1

PRINTER READY  
01: PAPER/1626mm

Press the **MENU** button.



2

MENU  
↓ INFORMATION

Press the **Down** button to select **SET REMAINING MEDIA**.



3

MENU  
↓ SET REMAINING MEDIA

Press the **OK** button.



4

>SET REMAINING MEDIA  
↓ 01:000 → 050m

Set the remaining media length and press the **OK** button.



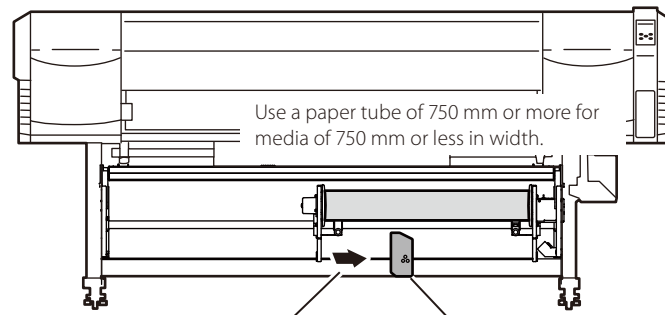
>SET REMAINING MEDIA  
↓ 01:050 → 050m

# Setting the media on the take-up reel unit

## Length limit of the paper tube for winding

Use a paper tube of more than 750 mm (30 inches) in length for winding.

(Example: Use a paper tube of 36 inches (914.4 mm) when rewinding a media of 24 inches (609.6 mm) in width.

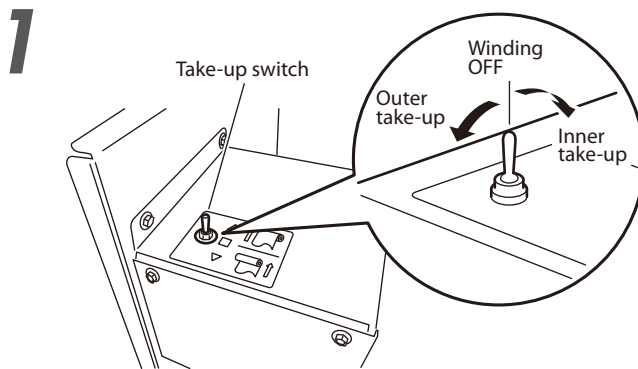


When moving the unit, pay attention not to hit the sensor plate.

## Inner take-up cannot be used in loose mode.

Use inner take-up or outer take-up in tension mode.

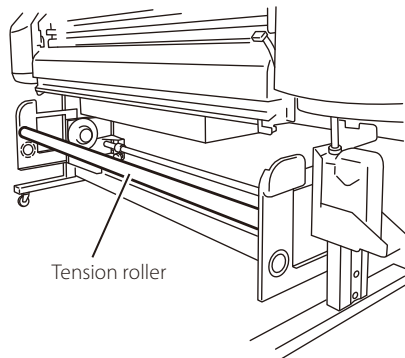
## Winding the media



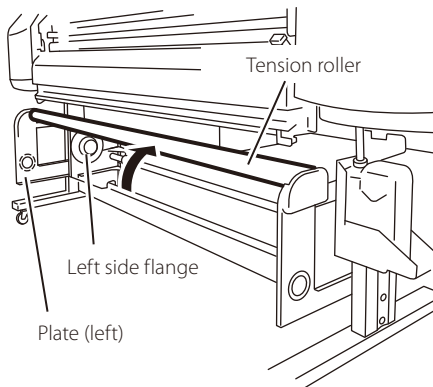
## Set the take-up switch to OFF.

Set the switch to the proper mode based on the figure left.

# 2

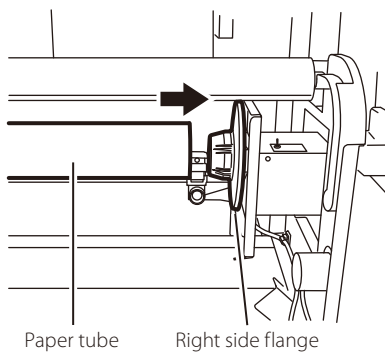


<Tension roller fixed position>



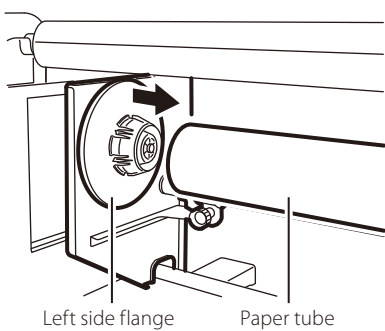
<Tension roller top position>

# 3



Paper tube Right side flange

# 4



Left side flange Paper tube

Move the tension roller in the top position.

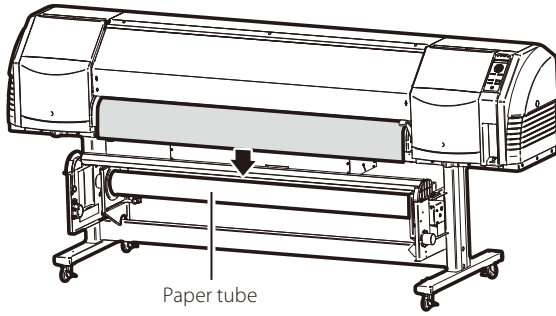
Insert the paper tube in the right side flange (fixed side).

### Note

- ◆ It is normally not necessary to move the position of the right side flange, it is used in the fixed position. However, when aligning with the roller media installation position to the printer, adjust the position of the right side flange.

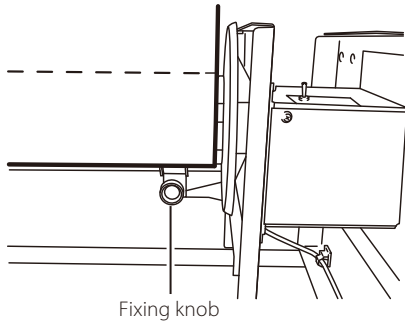
Slide the left side flange (movable side) to insert it in the paper tube.

5



After setting the media, feed the media until its leading edge reaches the paper tube.

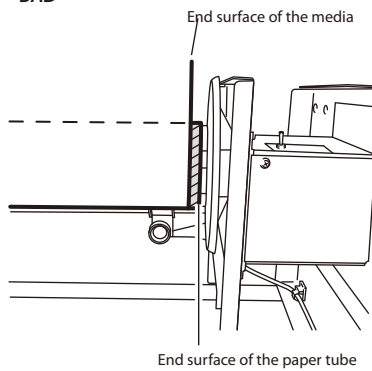
6



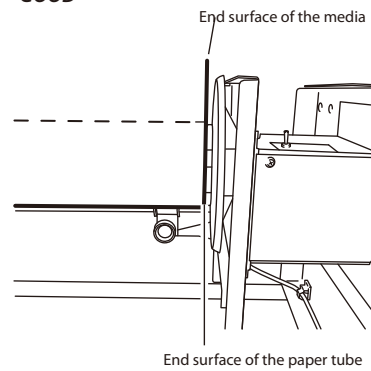
After the media has reached the paper tube, loosen the fixing knob of the right flange and move the flange to align the end surface of the media with the end surface of the paper tube.



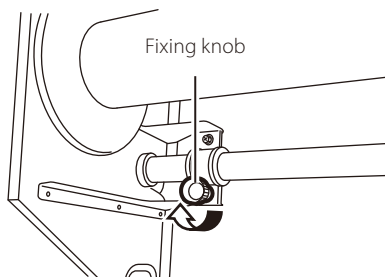
The end surface of the media is not aligned with the end surface of the paper tube: The adjustment is necessary.



The end surface of the media is aligned with the end surface of the paper tube : Normal

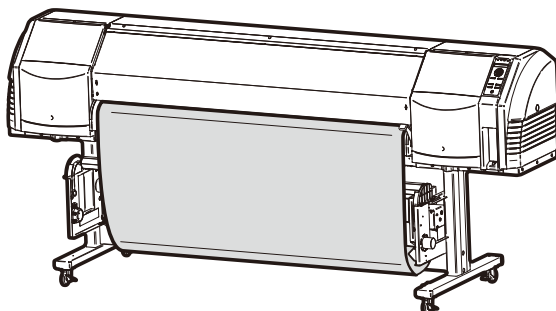


7



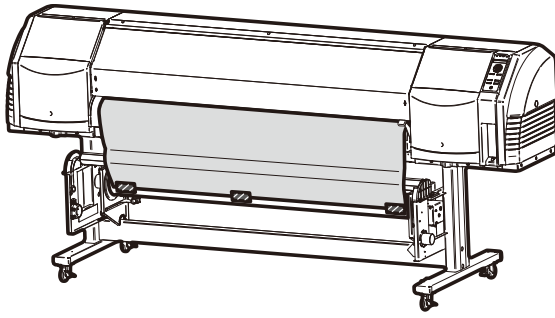
When the end surface of the media is aligned, tighten the right and left fixing knobs.

8

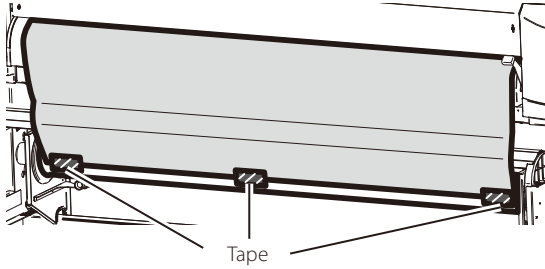


Feed more media to make a slack.

9



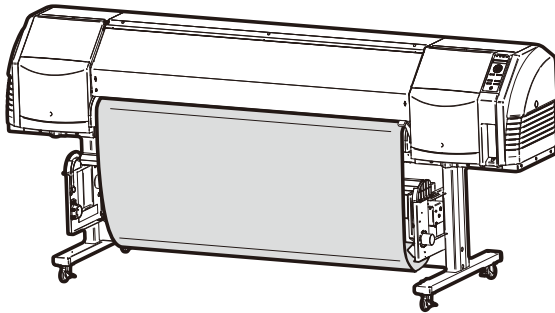
When the media has reached the paper tube, attach it to the paper tube using tape while keeping it stretched.



**! Notes**

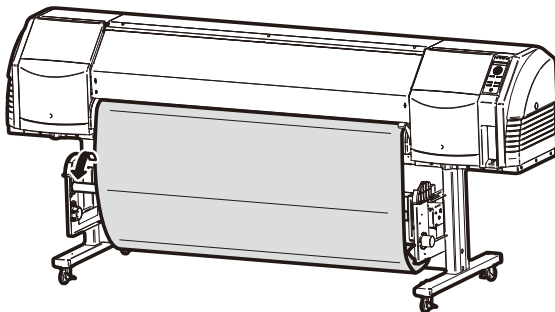
- ◆ Attach tape to three positions, to the center and to both ends.
- ◆ Pay attention when attaching the media as the media may skew if it is not straight to the tube.

10



Feed more media to make a slack.

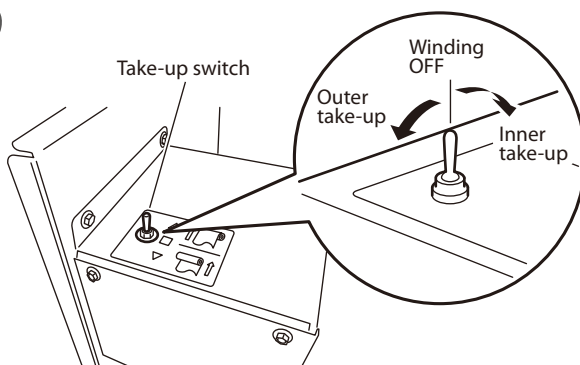
11



Return the tension roller from the top position.



12



**Set the take-up switch.**

Inner and outer can be chosen for the take-up direction. Set the switch to the proper mode based of the figure light.

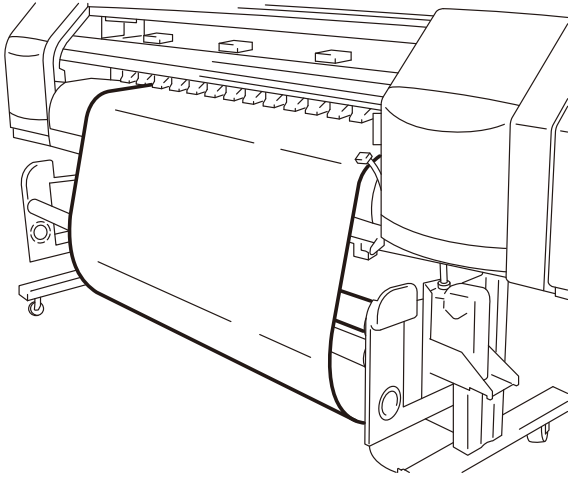
## Tension take-up / Loose take-up setting

With the take-up reel, either tension or the loose configuration can be selected.

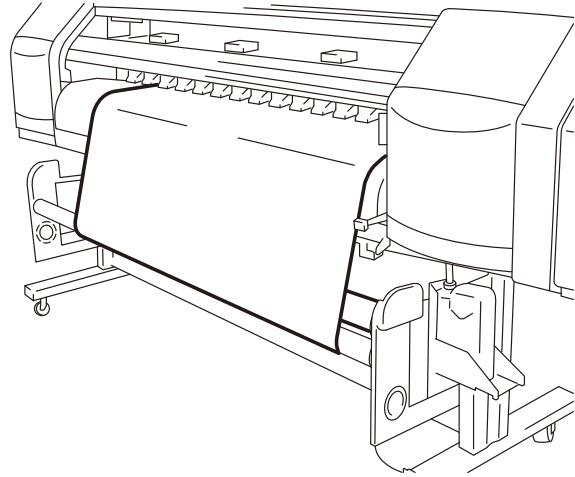
In normal use (vinyl chloride with adhesive), the loose method is preferred.

With tarpaulin and other media that does not slide well, use the tension configuration if take-up shifts occur.

### Loose take-up configuration



### Tension take-up configuration



### Tension take-up configuration / Loose take-up configuration setting procedure

In **TUR MODE** of **MEDIA REG MENU**, set the tension configuration.



Press the **MENU** button.



Press the **Down** button to select **EDIT MEDIA PRESETS**.



Press the **OK** button.



Press the **Down** button to select **MISC SETTINGS**.

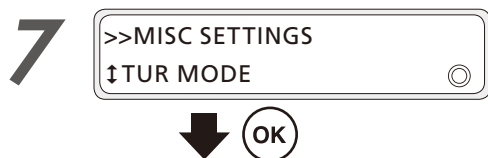




Press the **OK** button.



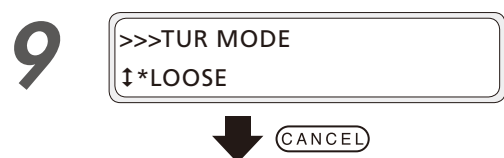
Press the **Down** button to select **TUR MODE**.



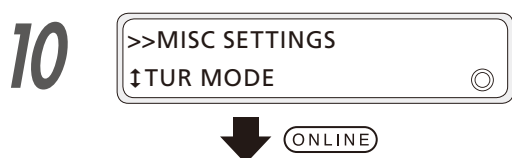
Press the **OK** button.



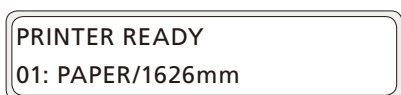
Select **LOOSE** or **TENSION** using the **Up** and **Down** buttons, and then press the **OK** button.



Press the **CANCEL** button to exit the **TUR MODE** menu.

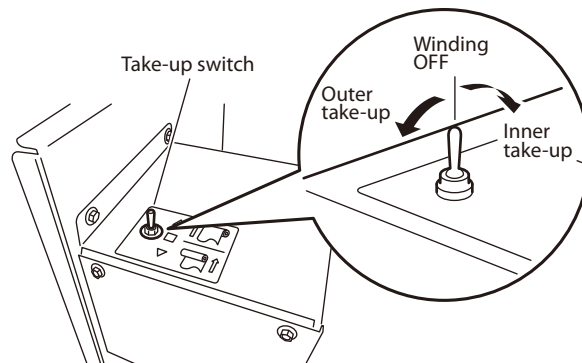


Press the **ONLINE** button.



## Take-up switch setting

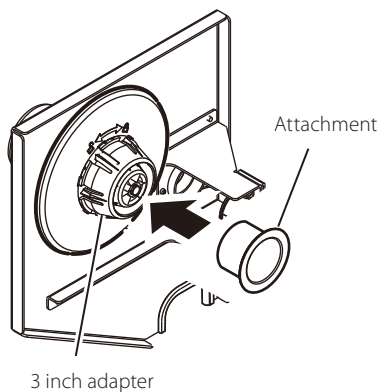
For the take-up direction, the outer take-up (print side out) or inner take-up (print side in) can be selected. When take-up is not used, set the take-up switch to **OFF**. Set the switch to the proper mode based of the figure below.



## Using a 2 inch core

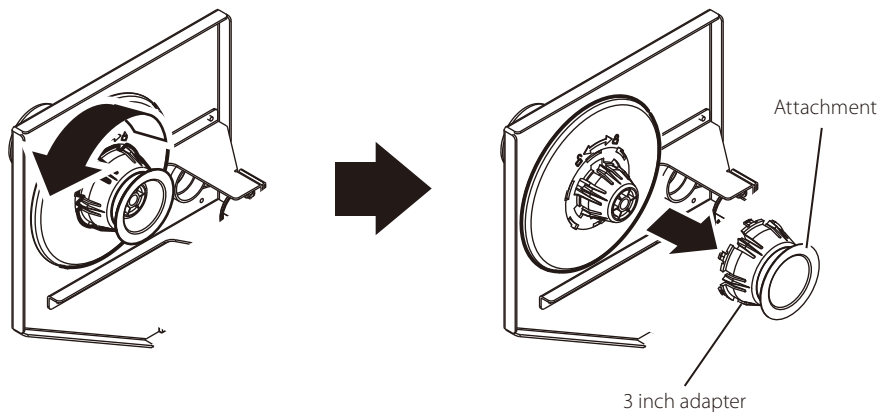
With this unit, by removing the 3inch adapter, a 2inch paper tube can be used. To remove the 3 inch adapter, the supplied attachment is needed. The removal procedure of the 3inch adapter is explained below.

1

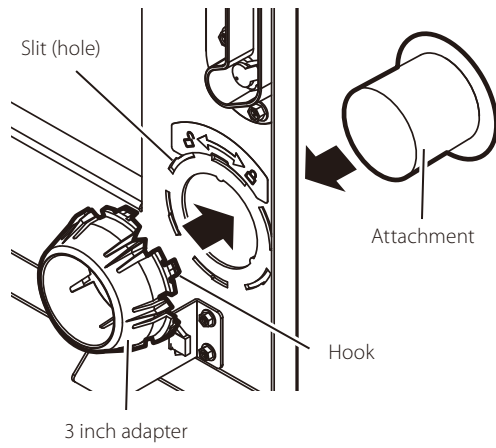


Insert the attachment in the hole in the center of 3 inch adapter.

2



Turn counterclockwise (↺ in the arrow direction) the 3 inch adapter and pull it out together with the attachment.



- ◇ Install the removed attachment into the left and right plates to keep them for later use.(See the figure at the right hand side.)
- ◇ Insert the 3 inch adapter in the slits (holes) of the left and right plates and turn clockwise (🔒 in the arrow direction).
- ◇ When installing the 3 inch adapter to the flange again, push the hook (projection) of the 3 inch adapter in the slits (holes) of the flange. Turn the adapter clockwise (🔒 in the arrow direction).The attachment is not necessary to install the 3 inch adapter.

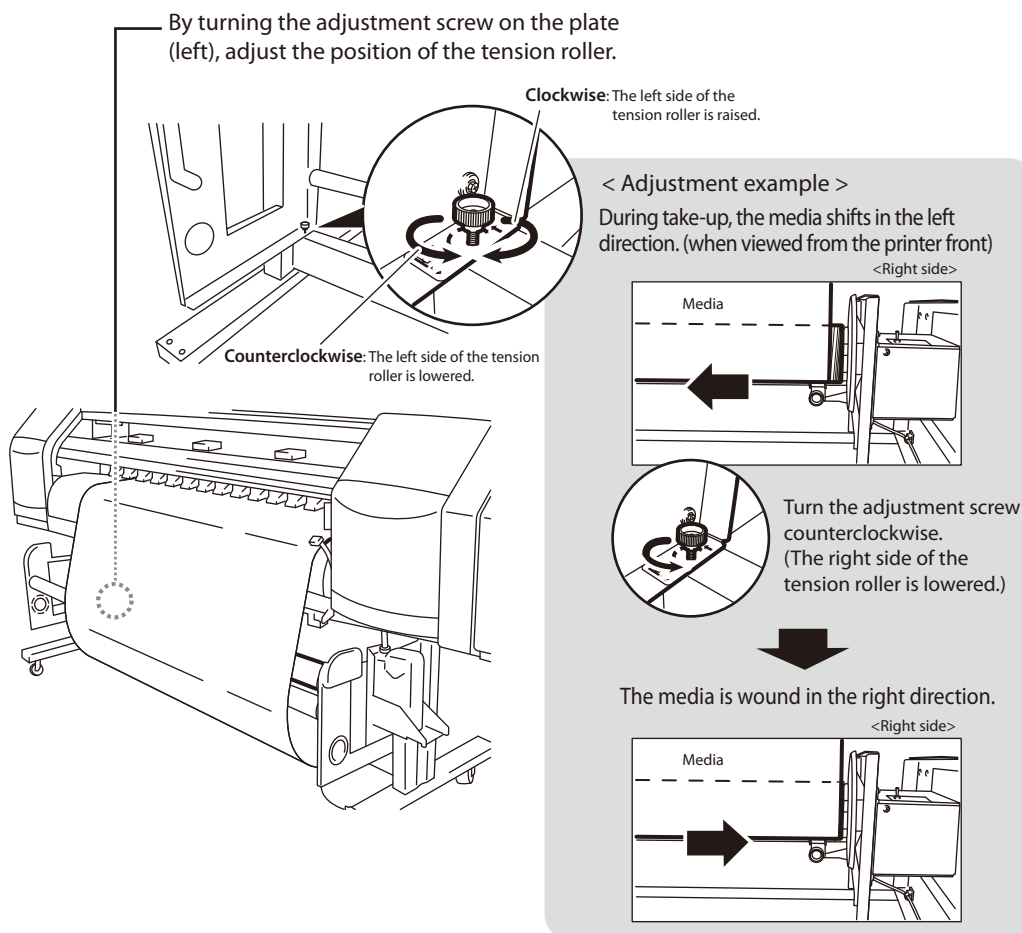
# Adjustment of the take-up reel unit

As the state of roll media during operation always changes depending on the state of roll media finishing (winding shift) and the environment during printing (such as temperature and humidity), wind the roll media while adjusting.

## Adjustment during operation

If the adjustment is left in the initial adjustment state, depending on this state of media, winding problems such as winding shifts may occur.

In this case, solve the problem by turning the adjustment screw on the plate (left).



### Note

- ◆ Adjustment may be needed several times during a long print, depending on the condition of the media.

When moving the roll media position on the printer, the plate (right) needs to be positioned to meet the media.

# Removing the media

## Procedure to print the amount of remaining media

The amount of remaining media can be printed on the media before removing the media.



◇ Printing the amount of remaining media before removing it allows you to refer to it to enter the exact amount of remaining media the next time you install the same media.

1



Press the **MENU** button.

2



Press the **Down** button to select **PRINT REMAIN MEDIA**.

3



Press the **OK** button.

4



Press the **OK** button to start the operation.

To cancel the operation, press the **CANCEL** button.

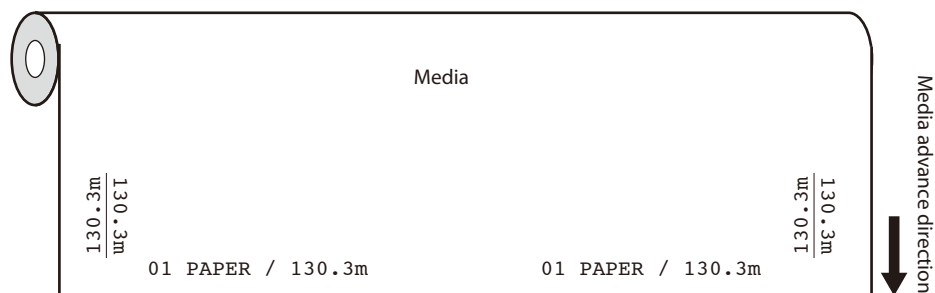
5



The amount of remaining media is printed.

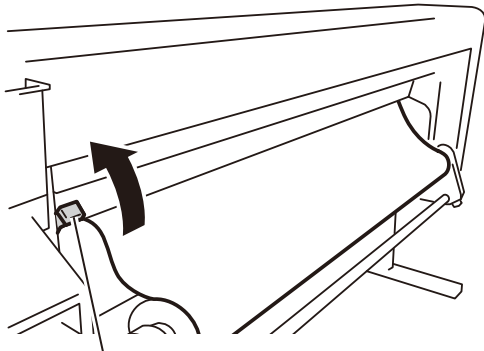


◇ The amount of remaining media is printed in several locations as shown in the figure below.



## Procedure to remove the roll media (feed side)

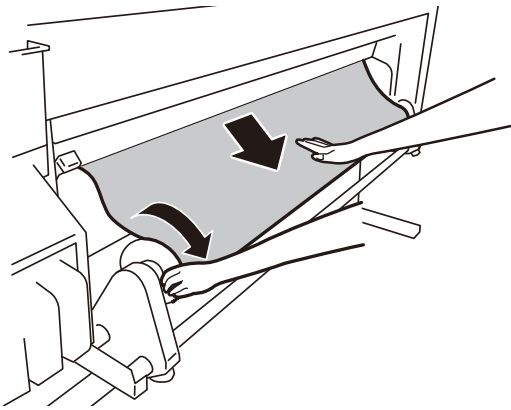
1



Pressure roller up / down lever

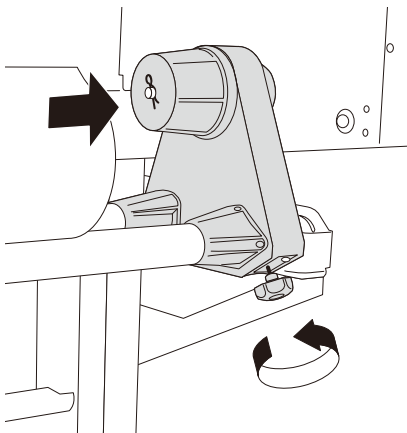
Raise the pressure roller up / down lever.

2



Rewind the flange to roll back the media.

3

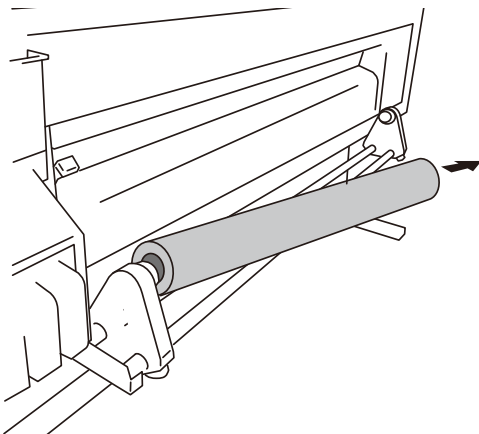


Loosen the screw of the media holder to the right, and while moving this media holder slightly to the right, remove the roll media from the media holder.

### Note

- ◆ When removing the roll media from the media holder, be careful not to let it fall as it may lead to personal injuries.

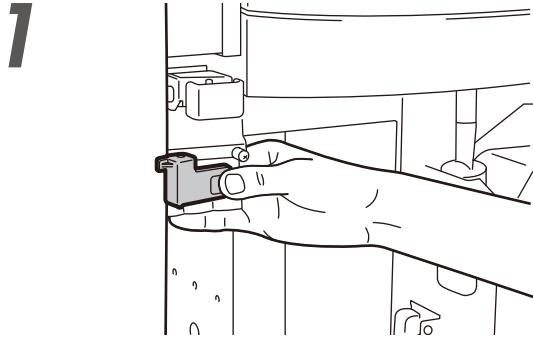
4



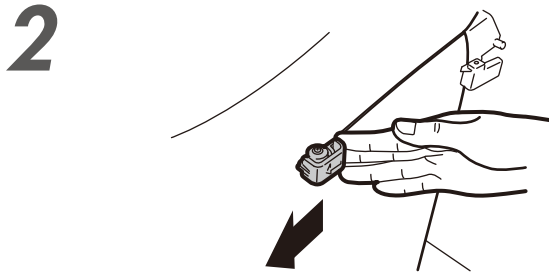
Pull the roll media out of the left media holder and remove the roll media.

# Cutting the media

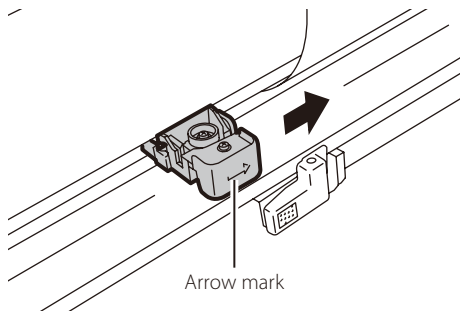
This section describes the cutting procedure using the optional cutter unit (64) (cutter unit (54) for the IP-5530)



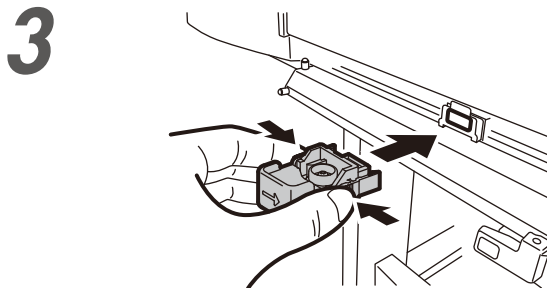
Clip both ends of the media with the media clip.



Move the media cutter blade and cut the media.



◆ The arrow mark (→) is engraved on the media cutter blade.  
The media cutter blade can only cut in the direction of the arrow mark (→). If the arrow mark (→) is not oriented in the cutting direction, change the orientation with the procedure below.



**1** Hold the side of the media cutter blade and pull it out while releasing the hooks.

**2** Invert the media cutter blade so that the left side comes to the right side and then install it.

## Note

- ◆ If the media cutter gets stuck while cutting, return the cutter blade to the side, remove curls and other causes of the problem, and cut the media by slowly moving the media cutter blade. Do not forcibly cut a media. Doing so may damage the blade and cutting performance may be degraded.
- ◆ If you drop the media cutter blade, the blade may be damaged, resulting in poor cutting performance. Handle it with care.
- ◆ The media cutter blade may not be able to cut thicker media. In this case, use a pair of scissors. Forcibly cutting thicker media may damage the media cutter blade and degrade cutting performance.

## Procedure to feed the media up to the cut position after printing

Follow the procedure below to cut the media at the end of the print out after printing.

**1**  PRINTER READY  
01: PAPER/1626mm



Press the **Down** button.

**2**  FEEDING MEDIA...  
STOP AT CUT POS >



After the operation panel display has changed to the screen shown on the left, keep the **Down** button pressed and press **Right** button.

**3**  FEEDING MEDIA... 

After the operation panel display has changed to the screen shown on the left, release both the **Down** and **Right** buttons.


The media is fed automatically up to the cut position even if you release the buttons.



(Automatic feeding ends or is canceled.)




- ◇ Press the **OK** button or the **CANCEL** button to cancel automatic feeding of the media.
- ◇ Even after canceling automatic feeding of the media, you can perform steps **1** and **2** again to automatically feed the media up to cut position.

**4**  PRINTER READY  
01: PAPER/1626mm



- ◇ Use the **Down** and **Up** buttons if you want to fine adjust the cut position.

**5** (Cut the media.)

Cut the media following the procedure in Cutting the media on  **page 65**.

### Note

- ◆ The automatic feeding function is disabled in the following cases.
  - No media is installed.
  - No printing has been performed after installing the media.
  - The end of the printout is located after the cut position.



## Procedure to backfeed the media to the print position after cutting

**1** PRINTER READY  
01: PAPER/1626mm



Press the **Up** button.

**2** BACKFEEDING MEDIA...  
STOP AT PRINT POS >



After the operation panel display has changed to the screen shown on the left, keep the **Up** button pressed and press **Right** button.

**3** BACKFEEDING MEDIA... 

After the operation panel display has changed to the screen shown on the left, release both the **Up** and **Right** buttons.

The media is backfed automatically to the print position even if you release the buttons.



(Automatic backfeeding ends or is canceled.)

**4** PRINTER READY  
01: PAPER/1626mm



- ◇ Press the **OK** button or the **CANCEL** button to cancel automatic backfeeding of the media.
- ◇ Even after canceling automatic backfeeding of the media, you can perform steps **1** and **2** again to automatically backfeed the media to print position.

- ◇ Use the **Down** and **Up** buttons if you want to fine adjust the printing position.

### Note

- ◆ The automatic backfeeding function is disabled in the following cases.
  - No media is installed.
  - No printing has been performed after installing the media.
  - The end of the printout is located after the print position.

# Unwind the media from the TUR unit

## Procedure to unwind the media from the TUR unit

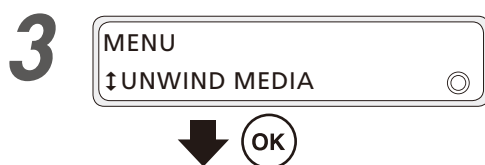
Follow the procedure below to unwind the media wound on the TUR unit.



Press the **MENU** button.



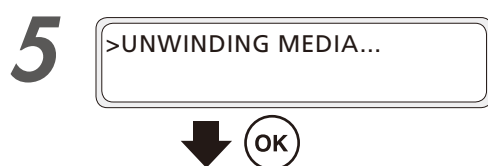
Press the **Down** button to select **UNWIND MEDIA**.



Press the **OK** button.



Press the **OK** button.



**The TUR unit starts unwinding the media.**

Press the **OK** button again to stop the unwinding of the media.



- ◇ The unwinding also stops if you press the **CANCEL** button to exit the **UNWIND MEDIA** menu.
- ◇ Set the take-up direction switch to off then to the desired direction to unwind the media several times.





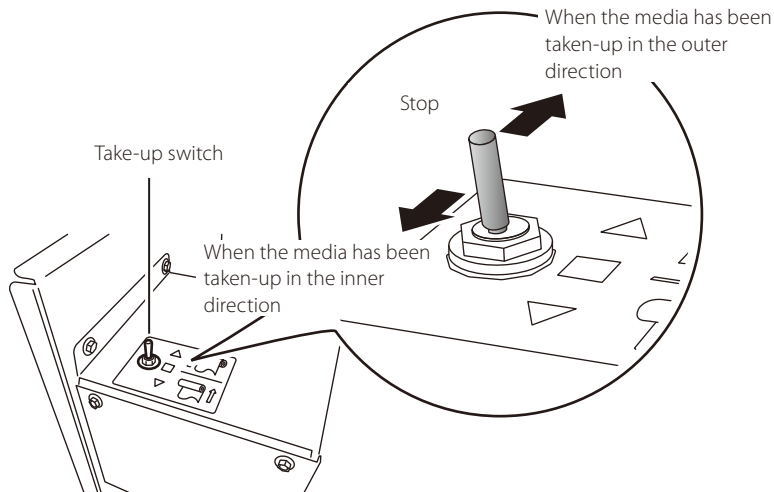
## About the unwinding direction

- ◇ The unwinding direction depends on the take-up direction switch setting.  
You must set the switch to a different position if the media has been taken up in the inner or the outer take-up direction. Refer to the figure below when setting the switch.



## About the duration of the unwinding operation

- ◇ The unwinding operation stops automatically after a certain length of time. To continue unwinding the media, return temporarily the take-up direction switch to the off position, and then set it again to the adequate unwinding direction.





Before printing

Loading the media

**Adjustment**

Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix

# *Adjustment*



# Before making adjustment

Make adjustments to maximize the print quality.

## Notes

- ◆ Before starting the adjustment, turn on the force heating function on the printer for 30 minutes or more.
- ◆ Correct adjustment is not possible if the printer is not sufficiently warmed.
- ◆ Always make print adjustment after installing a new media or changing the print mode.

Two types of adjustment are available: **Media advance adjustment** and **bidirectional adjustment**.

You can select **automatic print adjustment** and **manual print adjustment** for each type.

### Media advance adjustment

Adjust the media feeding

### Bidirectional adjustment

Adjust the ink output position during bidirectional printing

#### Automatic print adjustment

 **page 75**

 **page 80**

#### Manual print adjustment

 **page 77**

 **page 82**

Two modes are available to adjust print: automatic print adjustment and manual print adjustment.

With automatic print adjustment, the printer prints an adjustment pattern, checks the result with sensors, and sets an adjustment value automatically.

With manual print adjustment, the printer prints an adjustment pattern, then the user selects visually an adjustment value and set the value on the printer.

Detailed settings can be configured for bidirectional adjustment to adjust bidirectional print positions more precisely.



## How to differentiate between automatic and manual print adjustment

- ◇ Automatic print adjustment is recommended for the following users.
  - Users who do not have much experience with the printer
  - Users who find manual print adjustment difficult
  - Users who want finish adjustment quickly

\* Automatic print adjustment may not be available depending on the media type. If automatic print adjustment does not improve the print quality, use manual print adjustment.
- ◇ Manual print adjustment is recommended for the following users.
  - Users who needs the best print quality

## Cautions regarding automatic print adjustment

### Notes

- ◆ The printer cannot set a correct media advance adjustment value through automatic print adjustment in the following cases. In such cases, improve the conditions or perform manual print adjustment.  
The automatic print adjustment determines mechanically the media advance adjustment value, so absolute precision of the setting cannot be guaranteed.
- The media used makes the check via sensors impossible.  
(Some media types, even conventional ones, may not be supported by automatic print adjustment.)  
<Examples>
  - Transparent or colored media
  - Media with a rough surface
  - Media with an extremely high or low degree of reflection
  - Media on which the pattern cannot be printed properly, such as when the ink tends to bleed
- The media surface is soiled with dust, ink, finger marks, etc.
- A gap tends to form between the platen and the media
- Lots of nozzles are clogged
- The media heater temperatures are not suitable
- The environmental luminosity is too strong
- ◆ With automatic print adjustment, the printed pattern is read automatically to determine the media advance adjustment value. However, discrepancies may appear in the printed pattern between media lots or if the media is old. Therefore, the detection results may be incorrect even when using the same media.  
In such cases, use manual print adjustment.


## When automatic print adjustment cannot be performed

Automatic adjustment is not possible if one of the following messages appears when automatic print adjustment is performed.

In such a case, perform manual adjustment or check the items and perform the measures described below.

MANUALLY ADJUST 1  
ADV VAL/PRINT POS 

**Meaning** The amount of light received by the sensors did not reach the reference level.

Items to be checked	Corrective measures
Check that the sensors for automatic print adjustment are not covered with ink mist.	Clean the sensors for automatic print adjustment. (See Cleaning around the ionizers and the sensors for automatic print adjustment on  page 131.)
Check that the media is clean.	Feed the media until you reach a clean section.
Check that the media is not wrinkled.	Reinstall the media or feed the media until you reach a section without wrinkles.
Check that you are not using a media type with a light reflection rate too low.	Automatic print adjustment may not be possible with some media types. In such a case, use manual print adjustment.

MANUALLY ADJUST 2  
ADV VAL/PRINT POS 

**Meaning** The amount of light received by the sensors exceeds the reference level.

Items to be checked	Corrective measures
Check that the media is not wrinkled.	Reinstall the media or feed the media until you reach a section without wrinkles.
Check that no external light reaches the sensors.	Block the external light or change the printer installation location.
Check that you are not using a media type with a light reflection rate too high.	Automatic print adjustment may not be possible with some media types. In such a case, use manual print adjustment.

**Meaning** The adjustment values cannot be determined correctly.

Items to be checked	Corrective measures
Check that the media is not wrinkled.	Reinstall the media or feed the media until you reach a section without wrinkles.
Check that no nozzles are clogged.	Perform a print head cleaning.
Check that the media heater temperature is correct.	Change the media heater temperature so that the ink does not spread too much.
Check that you are not using a media type on which the pattern does not form correctly and from which the pattern cannot be read properly.	Automatic print adjustment may not be possible with some media types. In such a case, use manual print adjustment.



# Adjustment methods

## Adjusting media feeding: Media advance adjustment

The media feeding operation can be adjusted depending on media characteristics, such as thickness, rigidity, and smoothness of the surface.

To maintain a high print quality, perform media advance adjustment and set the most suitable media advance adjustment value.



### What is the timing to perform media advance adjustment?

- ◇ When one of the following changes has been made
  - The media has been changed
  - The position of the pressure roller lever has been changed
  - The TUR unit usage setting or TUR mode (loose or tension) has been changed
  - The media advance mode has been changed
  - The suction fan setting (off, low, medium, high) has been changed
- ◇ When the media advance adjustment value is incorrect.  
When the media advance adjustment value is incorrect, banding (horizontal bands) appears periodically on the printout.

### Automatic print adjustment

See **Cautions regarding automatic print adjustment** (📖 page 73)

#### <Workflow>



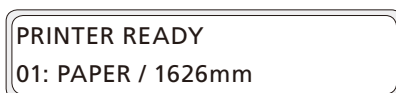
#### <Procedure>

1

#### Load the media.

Load the media in the same conditions as normal printing.

2



Press the **ADJUST** button.

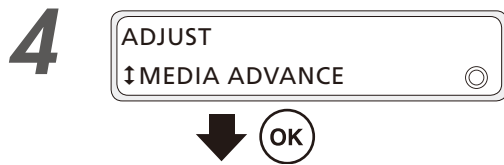


3

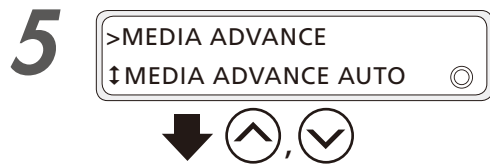


Press the **Up** and **Down** buttons to select **MEDIA ADVANCE**.

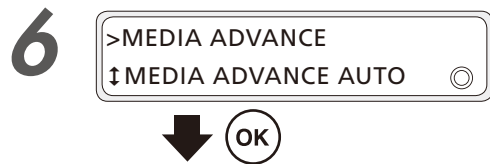




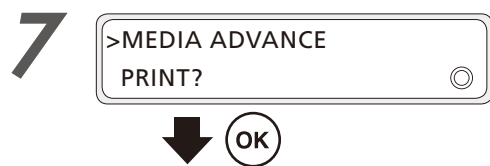
Press the **OK** button.



Press the **Up** and **Down** buttons to select **MEDIA ADVANCE AUTO**.



Press the **OK** button.

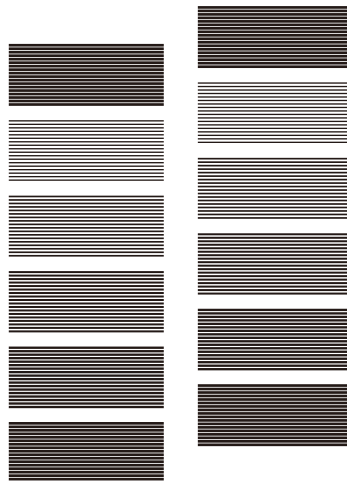


Press the **OK** button to execute media advance adjustment.



The printer prints the media advance adjustment pattern and check the result with its sensors.  
After the results have been checked, the printer automatically set the media advance adjustment value. The procedure is complete.

During this procedure, the printer prints and checks patterns similar to those shown below.



**8** If the print quality has not been improved, perform manual print adjustment.

## Manual print adjustment

Through manual adjustment, you can choose between 1 pattern or 3 patterns to be printed.

With 1 pattern, the printer prints the media advance adjustment pattern with the set adjustment value.

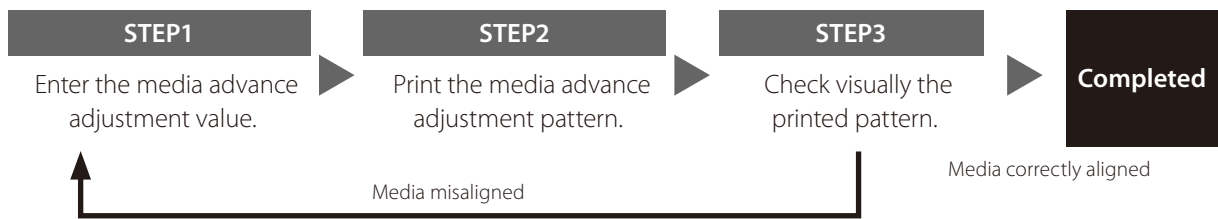
With 3 patterns, the printer prints three media advance adjustment patterns, one with the set adjustment value, one with the set adjustment value +0.2%, and one with the set adjustment value -0.2%.



### TIP:

- ◇ It is recommended to use 3 patterns if you have no idea of a suitable for media advance adjustment.

### <Workflow>



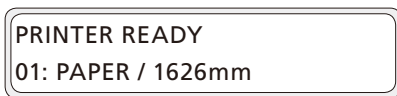
### <Procedure>

1

#### Load the media.

Load the media in the same conditions as normal printing.

2



#### Press the **ADJUST** button.

3



#### Press the **Up** and **Down** buttons to select **MEDIA ADVANCE**.

4



#### Press the **OK** button.

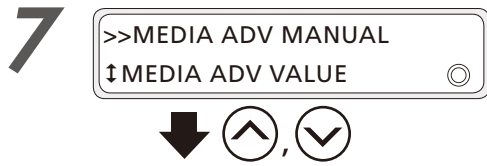
5



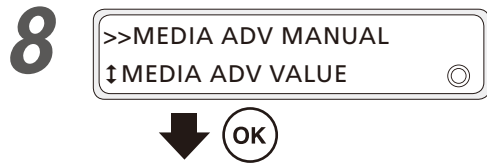
#### Press the **Up** and **Down** buttons to select **MEDIA ADV MANUAL**.



Press the **OK** button.



Press the **Up** and **Down** buttons to select **MEDIA ADV VALUE**.



Press the **OK** button.



Press the **Right** and **Left** buttons to select the digit, and press the **Up** and **Down** buttons to select a value for media adjustment.

\*: Registration mark (A registration mark \* is displayed if the media preset is registered)

XXX.XX: Media advance adjustment value currently set

YYY.YY: Entered media advance adjustment value  
(Setting range 97.00 to 106.00%)



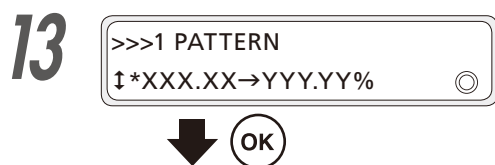
Press the **OK** button to confirm the entered value, and press the **CANCEL** button to exit **MEDIA ADV VALUE**.



Press the **Up** and **Down** buttons to select an option between **1 PATTERN** and **3 PATTERNS**.



Press the **OK** button.



Press the **OK** button.

14



Press the **OK** to print the media advance adjustment pattern.

15



The print starts.

16

**Check the printed pattern visually.**

When adjustment value is correct, the adjustment procedure is complete.

If the adjustment value is not suitable, perform the adjustment procedure again from step 9 through 17.



**Check the media advance adjustment pattern**

	<p>When the media advance adjustment value is too low.</p>
	<p>When the media advance adjustment value is correct.</p>
	<p>When the media advance adjustment value is too high.</p>



**Notes**

- ◆ If the correct media advance adjustment value differs between the media right and left sides, set the average value.
- ◆ If the correct media advance adjustment value differs between the media right and left sides, it may be caused by a skewed media.  
Check that the media has not skewed.

## Correcting ink output position: Bidirectional adjustment

During bidirectional printing, a slight difference may appear in the ink output position between the first scanning direction and the second scanning direction.

To maintain a high print quality, perform bidirectional adjustment and set the most suitable bidirectional adjustment value.



### What is the timing to perform bidirectional adjustment?

- ◇ When one of the following changes has been made
  - The media has been changed
  - The print mode has been changed
  - The carriage speed (normal, slow) has been changed
  - The height of the print heads has been changed
- ◇ When the bidirectional adjustment value is incorrect.  
When the bidirectional adjustment value is incorrect, grains may appear on the printout or the printout may be blurred.

## Automatic print adjustment

See **Cautions regarding automatic print adjustment** (📖 page 73)

### <Workflow>

Execute automatic print adjustment



**Completed**

↓ If the print quality has not been improved

Perform manual print adjustment (📖 page 82)

### <Procedure>

1

#### Load the media

Load the media in the same conditions as normal printing.

2



ADJUST

3



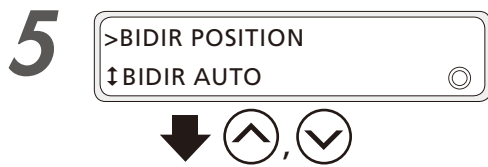
Press the **Up** and **Down** buttons to select **BIDIR POSITION**.

4



OK

Press the **OK** button.



Press the **Up** and **Down** buttons to select **BIDIR AUTO**.



Press the **OK** button.



Press the **Up** and **Down** buttons to select **CARRIAGE SPD NORM** or **CARRIAGE SPD SLOW**.

Bidirectional adjustment patterns corresponding to the print modes



Press the **OK** button.



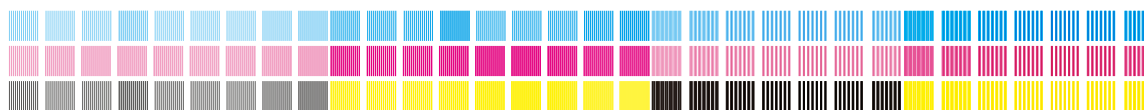
Press the **OK** button to execute the bidirectional adjustment.



The printer prints the bidirectional adjustment pattern and check the result with its sensors.

After the printing and reading operations have been completed, the bidirectional adjustment value is set for all print modes, which completes the adjustment procedure.

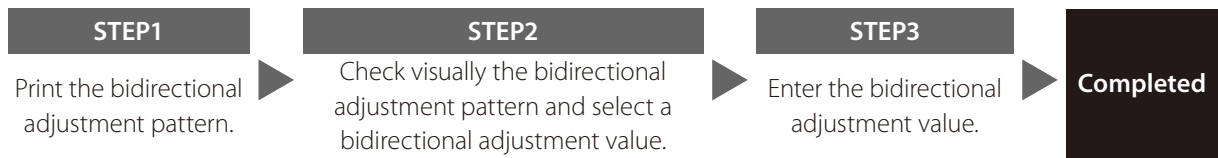
During this procedure, the printer prints and checks a pattern similar to the one shown below.



**10** If the print quality has not been improved, perform manual print adjustment.

## Manual print adjustment

### <Workflow>



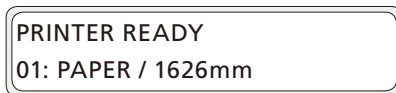
### <Procedure>

1

#### Load the media.

Load the media in the same conditions as normal printing.

2



#### Press the **ADJUST** button.

3



#### Press the **Up** and **Down** buttons to select **BIDIR POSITION**.

4



#### Press the **OK** button.

5



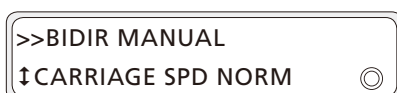
#### Press the **Up** and **Down** buttons to select **BIDIR MANUAL**.

6



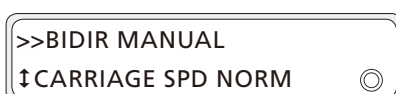
#### Press the **OK** button.

7



#### Press the **Up** and **Down** buttons to select **CARRIAGE SPD NORM** or **CARRIAGE SPD SLOW**.

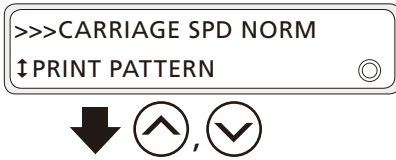
8



#### Press the **OK** button.

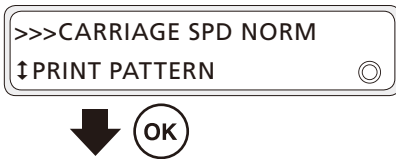


9



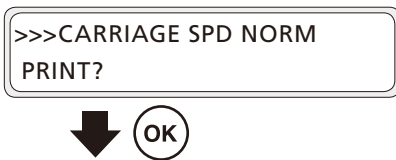
Press the **Up** and **Down** buttons to **PRINT PATTERN**.

10



Press the **OK** button.

11



Press the **OK** button to print the bidirectional adjustment pattern.



The print starts.

12

**Check visually the bidirectional adjustment pattern and select a bidirectional adjustment value.**

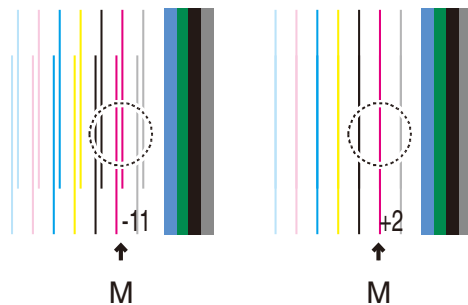
Select a value for both the right and left of each print head.



### How to check a bidirectional adjustment pattern

Enter the value indicated in the case where both lines are the closest for each print head.

For example to set the left adjustment value for the M print head, enter +2 as in the pattern to the right the lines are separated for -11 but they form only one line for +2.



13



Press the **Up** and **Down** buttons to select right or left adjustment and the color of the print head.

This example explains how to set a bidirectional adjustment value of **+2** for the left adjustment of the M print head.

# 14



M: Print head color  
 L: Adjustment value right or left  
 ±XX: Current adjustment value



Press the **OK** button.

# 15

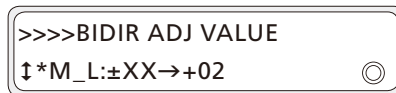


\*: Registration mark (A registration mark \* is displayed if the media preset is registered)  
 XXX.XX: Current adjustment value  
 YYY.YY: Adjustment value after change (setting range -15 to +15)



Press the **Right** and **Left** buttons to select the digit, and press the **Up** and **Down** buttons to select a value for bidirectional adjustment.

# 16



Press the **OK** button to set the bidirectional adjustment value, or press the **CANCEL** button to exit **BIDIR ADJ VALUE**.

# 17

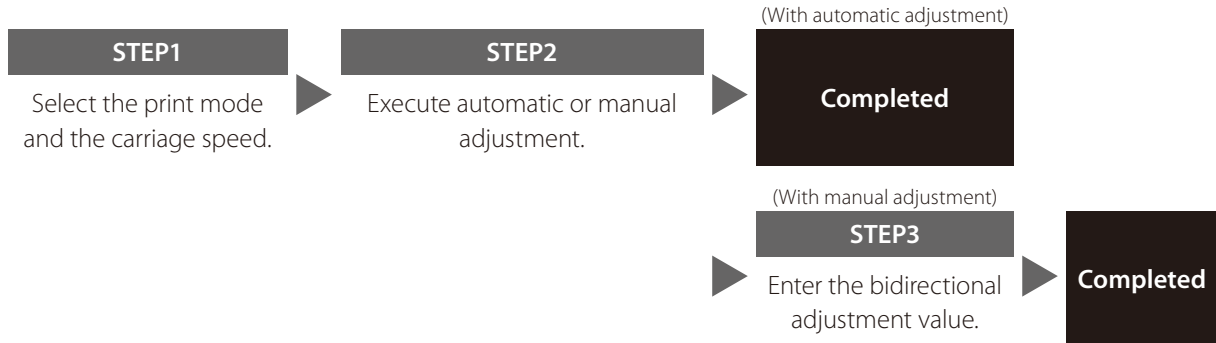


Set the bidirectional adjustment values of the other side and the other print heads following the same procedure. When bidirectional adjustment values have been set for both sides of all print heads, the adjustment procedure is complete.

## Correcting ink output position: Detailed bidirectional adjustment

If the ink output position is still misaligned between the first scanning direction and the second scanning direction after performing the adjustment described from page 78 to page 82, you can perform more detailed adjustment.

### <Workflow>



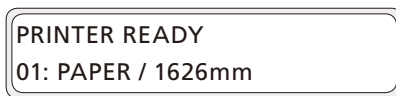
### <Procedure>

1

#### Load the media

Load the media in the same conditions as normal printing.

2



Press the **ADJUST** button.

3



Press the **Up** and **Down** buttons to select **BIDIR ADJ DETAILED**.

4



Press the **OK** button.

5

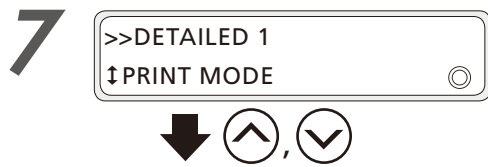


Press the **Up** and **Down** buttons to select **DETAILED 1**.

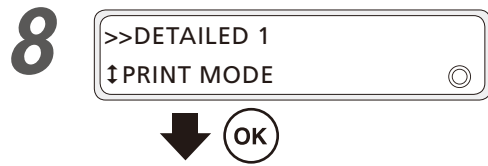
6



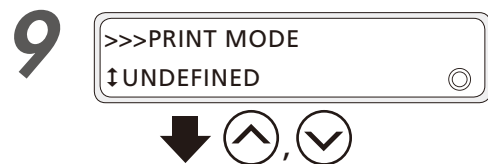
Press the **OK** button.



Press the **Up** and **Down** buttons to select **PRINT MODE**.



Press the **OK** button.



Press the **Up** and **Down** buttons to select the print mode you want to adjust.

**3:HIGH QUALITY** is selected in the example on the left.



Press the **OK** button.



Press the **CANCEL** button.



Press the **Up** and **Down** buttons to select **CARRIAGE SPEED**.



Press the **OK** button.



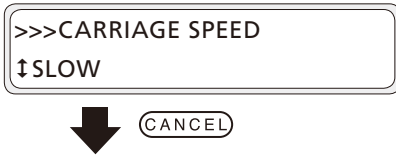
Press the **Up** and **Down** buttons to select the carriage speed you want to adjust.

**SLOW** is selected in the example on the left.



Press the **OK** button.

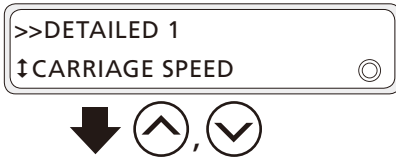
16



Press the **CANCEL** button.

The following describes the procedure with automatic adjustment.

17



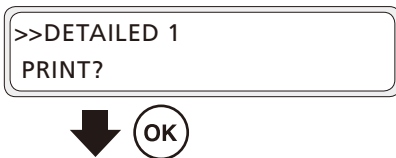
Press the **Up** and **Down** buttons to select **AUTO BIDIR ADJUST**.

18



Press the **OK** button.

19



Press the **OK** button to print the bidirectional adjustment pattern.

20

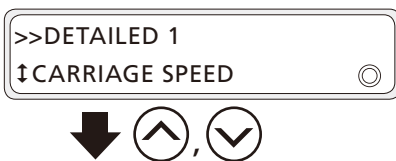


The printer prints the bidirectional adjustment pattern and check the result with its sensors.

After printing and reading of the pattern is complete, the bidirectional adjustment value with the specified print conditions is set. The procedure is complete.

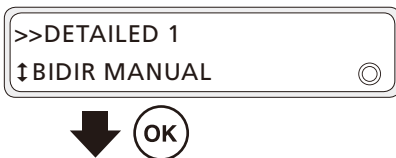
The following describes the procedure with manual adjustment.

17



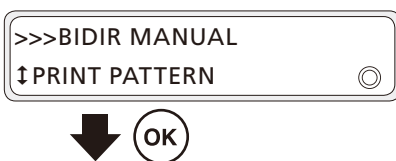
Press the **Up** and **Down** buttons to select **BIDIR MANUAL**.

18



Press the **OK** button.

19



Press the **OK** button.

20

>>>BIDIR MANUAL  
PRINT?



Press the **OK** button to print the bidirectional adjustment pattern.

21

>>>BIDIR MANUAL  
EXECUTING...

The print starts.

22

**Check visually the bidirectional adjustment pattern and select a bidirectional print value.**

Select a value for both the right and left of each print head.

See **page 83** for how to check a bidirectional adjustment pattern.

23

>>>BIDIR MANUAL  
↑PRINT PATTERN



**Press the Up and Down buttons to select right or left adjustment and the color of the print head.**

This example explains how to set a bidirectional adjustment value of **+2** for the left adjustment of the M print head.

24

>>>BIDIR MANUAL  
↑\*M\_L:±XX

M: Print head color  
L: Adjustment value right or left  
±XX: Current adjustment value



**Press the OK button.**

25

>>>>BIDIR ADJUST  
↑\*M\_L:±XX→±YY

\*: Registration mark (A registration mark \* is displayed if the media preset is registered)  
XXX.XX: Current adjustment value  
YYY.YY: Adjustment value after change (setting range -15 to +15)



**Press the Right and Left buttons to select the digit, and press the Up and Down buttons to select a value for bidirectional adjustment.**

26

>>>>BIDIR ADJUST  
↑\*M\_L:±XX→+02



**Press the OK button to set the bidirectional adjustment value, or press the CANCEL button to exit BIDIR ADJUST.**

27

>>>BIDIR MANUAL  
↑\*M\_L:±XX

**Set the bidirectional adjustment values of the other side and the other print heads following the same procedure. When bidirectional adjustment values have been set for both sides of all print heads, the adjustment procedure is complete.**

Before printing

Loading the media

Adjustment

**Maintenance**

Advanced operations

Troubleshooting

Menu tree

Appendix



# *Maintenance*

# Daily maintenance

Perform daily maintenance to maintain the printer in good condition and maximize the print quality.

Pay particularly attention to the following three items.

- Clean the capping unit (start maintenance) every day.
- Check the level of the wiper cleaning liquid every day. Supply liquid if the level is low.
- Print heads are highly-precise parts. Do not wipe the nozzle surfaces directly.

Daily maintenance can be executed from the operation panel.

The daily maintenance items are listed below.



Replacement period of consumable.

Item		Quantity	Replacement period(Warning message appear)
IP6-251	Wiper cleaning liquid set A (200ml)	3 bottles	1 bottle per 1 month
IP5-282	Wiper sponge	1 piece	Around 6 month
IP5-281	Wiper blade		
	Rubber blade	2 pieces	Around 12 month
	Sponge blade	1 piece	



... Check



... Replace



... Remove



... Set



... Clean



... Panel operation

No.	Item	Daily	Weekly	When a message is displayed	When it is noticeably dirty	Consumables
A	Media installation ( <a href="#">page 91</a> )					
B	Nozzle print ( <a href="#">page 92</a> )					
C	Waste ink bottle check and replacement ( <a href="#">page 102</a> )					IP5-299 Waste ink bottle
D	Wiper cleaning liquid check and supply ( <a href="#">page 104</a> )					IP6-251 Wiper cleaning liquid set A *1
E	Wiper blade cleanliness check and replacement ( <a href="#">page 106</a> )					IP5-281 Wiper blade *1
F	Cap cleaning ( <a href="#">page 112</a> )					IP5-279 Cap cleaning liquid A *1 IP7-264 Cleaning swab (Thick) *1
		Capping unit cleaning				
G	Pressure roller cleaning ( <a href="#">page 116</a> )					
H	Wiper sponge replacement ( <a href="#">page 117</a> )					IP5-282 Wiper sponge
I	Sheet mount cleaning ( <a href="#">page 120</a> ) (This operation must be performed approximately once per month)					IP5-283 Sheet mount cleaning kit A
J	Printer cleaning (This operation must be performed approximately once per week)	Media edge guard cleaning ( <a href="#">page 128</a> )				IP6-147 Cleaning swab *1 IP5-279 Cap cleaning liquid A *1
		Head guard cleaning ( <a href="#">page 126</a> )				
		Platen cleaning ( <a href="#">page 130</a> )				
		Paper guide cleaning ( <a href="#">page 129</a> )				
		Front cover cleaning ( <a href="#">page 129</a> )				
K	Cleaning around the ionizers and the sensors for automatic print adjustment ( <a href="#">page 131</a> ) (This operation must be performed approximately once per year)					IP6-147 Cleaning swab *1

\*1 Also included in the IP5-280 daily maintenance kit A.



# Routine maintenance

## A Media installation

1

CHECK MEDIA  
FOR WRINKLES

Check that the media is not wrinkled.

If it is wrinkled, either set the media again or feed it up to an area without wrinkles.

\* Printing on wrinkled media may damage the nozzle surfaces.

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix

## B Nozzle print

### Print the NOZZLE PRINT pattern

Nozzle print is used to check that no nozzle (opening to eject ink) on the print heads is clogged. Perform a nozzle print following the timing below.

- Every day before the first print.
- When the carriage has been separated from the capping unit for a long time, for example after cleaning the capping unit.

**1** PRINTER READY  
01: PAPER / 1626mm



Press the **NOZZLEPRINT** button.

**2** NOZZLE PRINT  
↓ PRINT? 



Press the **OK** button to start the operation.

To cancel the operation, press the **CANCEL** button.

**3** NOZZLE PRINT  
↓ EXECUTING

The nozzle print pattern prints.

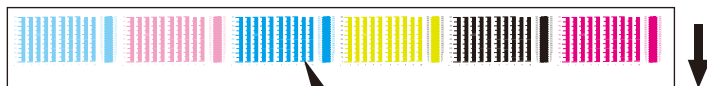
### **4** Check for missing dots and incorrect print.


A pattern such as the figure shown on the right is printed.

Check that no line is missing and that the ink ejection direction is straight.

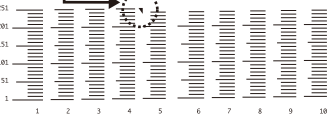
Perform a normal cleaning (**PH RECOVERY**) if a line is missing or the ink ejection direction is not straight.


If the same problems still appear after performing normal cleaning several times, configure nozzle map with the procedure below.




**GOOD**  **No line is missing and the printout is correct**


Mark for the last nozzle (nozzle 254)  
Check that nozzle print is complete up to the right of this mark.



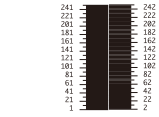
**BAD**  **Missing lines are found**


Example when lines for nozzles 24 and 133 are missing in the printout.



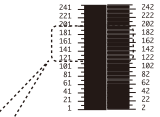
**GOOD**  **Ink is ejected straight and the printout is correct**

If the spaces between the lines are even, the ink is ejected straight.




**BAD**  **Ink is not ejected straight**

If there are uneven spaces between lines, the ink may not be ejected straight.



181  
161  
141  
121



The line printed by the nozzle 159 (indicated with the arrow) is bent to the nozzle 161.  
⇒ Example when the nozzle 159 does not eject ink straight.

## Configure nozzle map

When lines are missing on the nozzle print pattern or the ink is not ejected straight, that means that a nozzle is clogged. Nozzle map can be configured to set a nozzle that will be used instead of the clogged nozzle. With this function, good print quality can be maintained without reducing the print speed.

Up to 10 nozzles can be set with nozzle map for each print head.

Nozzle map can be configured manually or automatically.

\* Only nozzles that are completely clogged are detected with automatic configuration. Nozzle map must be configured manually in the following cases.

- The nozzle is partially clogged.
- The nozzle does not eject ink straight.

\* Use media of more than 762 mm (30 inches) with automatic configuration.

**Manual configuration**       **page 94**

**Automatic configuration**       **page 95**



### *How to choose between manual and automatic configuration*

---

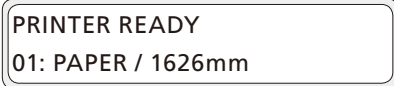
- ◇ Configure nozzle map manually in the following cases.
  - The media used is less than 762 mm (30 inches).
  - A nozzle is partially clogged.
  - A nozzle does not eject ink straight.
  - You want to set the nozzles more precisely.
  - You want to quickly complete configuration.
  - You are used to manual configuration.
- ◇ Configure nozzle map automatically in the following cases.
  - There are no partially clogged nozzles.
  - All nozzles eject ink straight.
  - You do not want to set the nozzles manually.
  - You are not used to manual configuration.

## Cautions regarding automatic configuration

### Notes

- ◆ Automatic configuration sets nozzle map mechanically, so absolute precision of the setting cannot be guaranteed.
- ◆ The printer cannot configure correctly nozzle map in the following cases. In such cases, improve the conditions or perform manual configuration.
  - The media used makes the check via sensors impossible.  
(Some media types, even conventional ones, may not be supported by automatic configuration.)
  - <Examples>
    - Transparent media
    - Media with a rough surface
    - Media with an extremely high or low degree of reflection
    - Media on which the pattern cannot be printed properly, such as when the ink tends to bleed
    - Media where density differences do not appear on the printed pattern.
    - Media that does not advance smoothly
    - Media that wrinkles easily
  - The media surface is soiled with dust, ink, finger marks, etc.
  - A gap tends to form between the platen and the media
  - Lots of nozzles are clogged
  - The media heater temperatures are not suitable
  - The environmental luminosity is too strong
  - The bidirectional or media advance adjustment value is not set correctly
- ◆ With automatic configuration, the printed pattern is read automatically. However, discrepancies may appear in the printed pattern between media lots or if the media is old. Therefore, the detection results may be incorrect even when using the same media.  
In such cases, use manual print adjustment.
- ◆ Depending on the environment temperature and humidity, nozzles may clog after automatic configuration, even if it happens rarely.  
In such a case, first perform cleaning to recover the nozzles, and then perform manual configuration.

## Manual configuration

1 



2 



3 



4 



**Press the ADJUST button.**

You can set up to 10 nozzle map parameters for each print head.

**Press the Up and Down buttons to select SET NOZZLE MAP.**

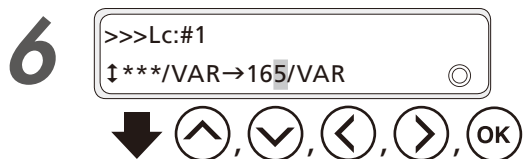
**Press the OK button.**

**Press the Up and Down buttons to select the color to be set and press the OK button.**

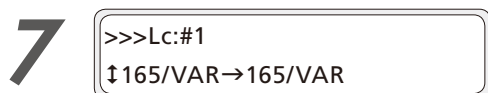
This example explains how to set a nozzle number 165 for the nozzle map 1 of Lc head.



Press the **OK** button.



Press the **Up, Down, Left, Right** buttons to set the nozzle map or nozzle number, and then press the **OK** button.



The setting is complete.

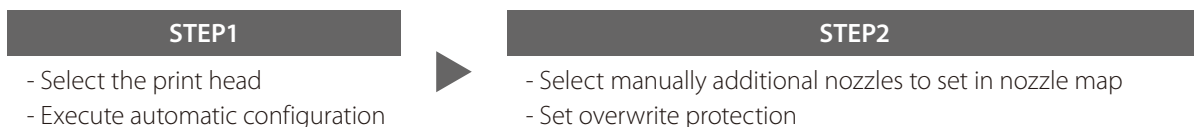


**To check the numbers of the nozzles with nozzle map**

- ◇ The numbers of the nozzles for which nozzle map has been set are indicated on the nozzle print pattern printout.

## Automatic configuration

### < Operation flow >



Proceed to **STEP 2** as needed.

- See **Cautions regarding automatic configuration** (📖 page 94)
- Use media that is 762 mm (30 inches) or larger.
- Only nozzles that are completely clogged are detected with automatic configuration. Nozzles that are partially clogged or that do not eject ink straight must be added manually.
- Overwrite protection can be configured to skip the manual addition of partially clogged nozzles or nozzles that do not eject ink straight from the next time.

### <STEP 1>



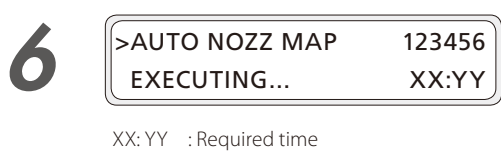
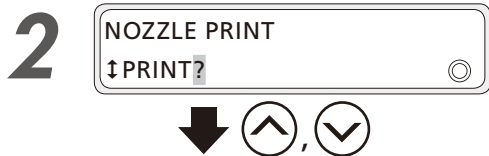
**Before automatically configure nozzle map!**

- ◇ If the bidirectional or media advance adjustment value is not set correctly, media may be detected incorrectly depending on the media used.
- ◇ It is recommended to perform bidirectional adjustment and media advance adjustment before configuring nozzle map automatically. Use the following settings to perform these adjustments.
  - Bidirectional adjustment: 1: DRA,FAST PR,PRO
  - Media advance adjustment: FAST PRODUCTION



Press the **NOZZLEPRINT** button.

You can set up to 10 nozzle map parameters for each print head.



Press the **Up** or **Down** button to select **AUTO NOZZ MAP**.

Press the **OK** button.

Press the **Right** or **Left** button to select the cursor, and press the **Up** or **Down** button to select a print head number.

Automatic nozzle mapping is applied to the print heads whose numbers are displayed.

The correspondence between the print head numbers and the ink colors is shown in the table below.

1	2	3	4	5	6
Lc	Lm	C	Y	K	M

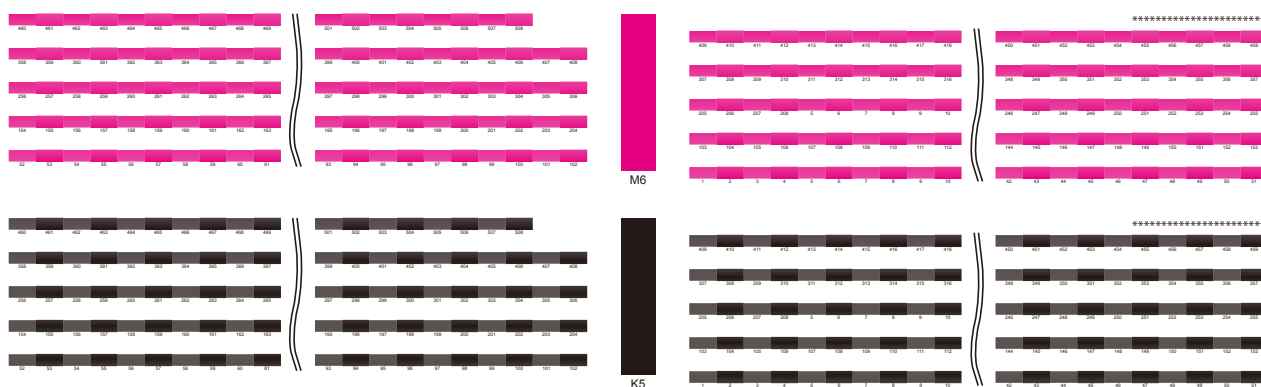
Press the **OK** button.



### How long does it takes?

- ◇ The time needed to print the pattern varies depending on the number and type of the selected colors. It takes approximately 2 minutes and 30 seconds per color.

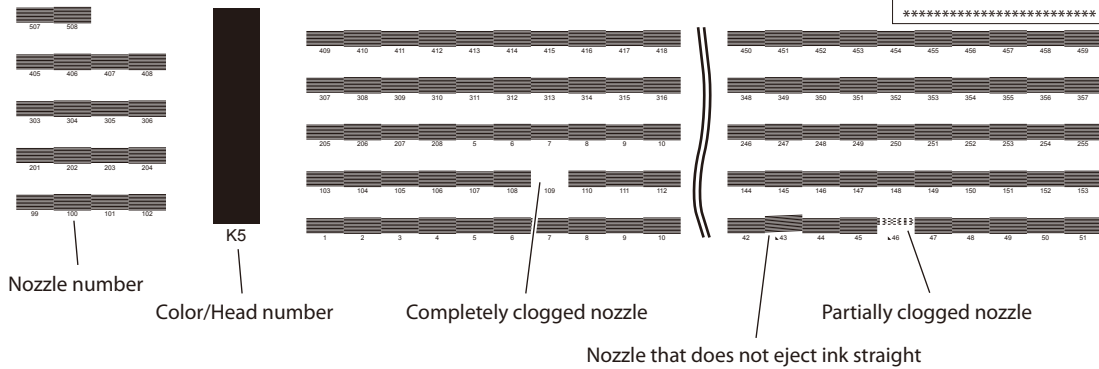
The following pattern is printed and the printer reads the printout.



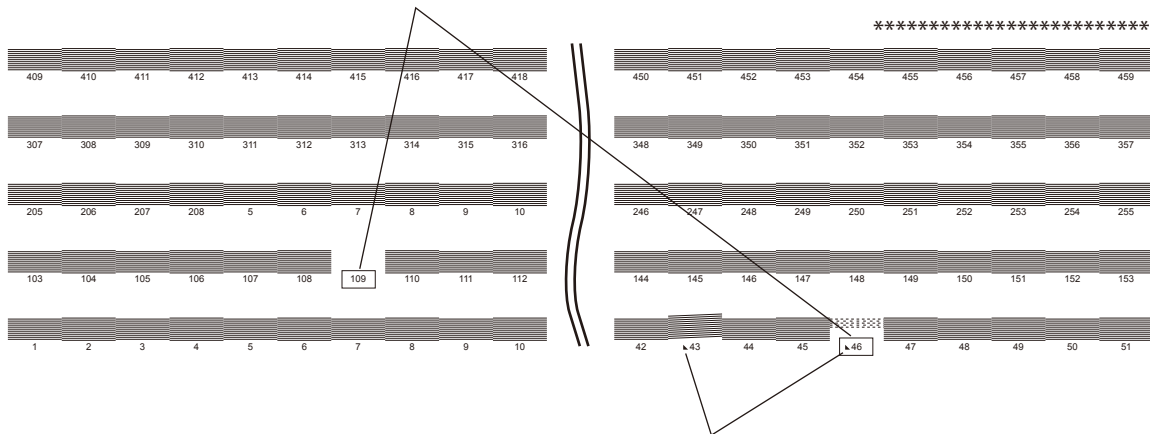
Error message

See [When an error occurs with automatic configuration](#) on [page 100](#) for details.

Completed successfully is printed when the configuration ends normally.



These nozzle numbers are detected as defective



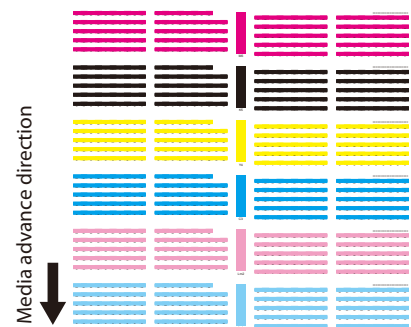
Numbers of the nozzle for which overwrite protection has been set.

See [< STEP2 >](#) on [page 98](#) for details.

Layout with all colors selected  
Media width of 1371 mm (54 inches)  
or larger



Layout with all colors selected  
Media width of less than 1371 mm  
(54 inches)



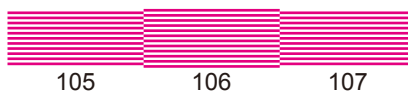
### Completely clogged nozzle

Will be substituted.



### Normal nozzle

Will not be substituted.



### Partially clogged nozzle

Will be substituted or not depending on its condition.



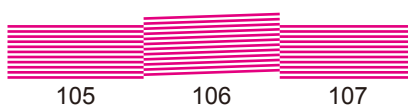
→ Go to STEP 2



→ Go to STEP 2


### Nozzle that does not eject ink straight

Will not be substituted.



→ Go to STEP 2

#### <STEP 2>

If there are defective nozzles that have not been set, add them manually as shown in manual configuration on  **page 94**.

In case there are nozzles that are always defective, you can set overwrite protection when selecting the nozzles to always substitute them with other nozzles regardless of the detection results of automatic configuration.

#### Overwrite protection setting

VAR: Not overwrite protected

FIX: Overwrite protected



- ◇ The numbers of defective nozzles are easier to find while looking at the print result of automatic nozzle map when setting the nozzles.

1



ADJUST

2



#### Press the **ADJUST** button.

You can set up to 10 nozzle map parameters for each print head.

#### Press the **Up** and **Down** buttons to select **SET NOZZLE MAP**.



3 ADJUST  
↓ SET NOZZLE MAP



4 >SET NOZZLE MAP  
↓ Lc



5 >>SET NOZZLE MAP Lc  
↓ #1:\*/VAR



6 >>>Lc:#1  
↓ \*/VAR→165/FIX



7 >>>Lc:#1  
↓ 165/FIX→165/FIX

Press the **OK** button.

Press the **Up** and **Down** buttons to select the color to be set and press the **OK** button.

This shows an example of setting nozzle 165 of print head Lc in nozzle map 1 with the overwrite protection set.

Press the **OK** button.

Press the **Up**, **Down**, **Left**, **Right** buttons to set the nozzle map, nozzle number and overwrite protection (**VAR/FIX**), and then press the **OK** button.

The setting is complete.



**To check the numbers of the nozzles with nozzle map**

- ◇ The numbers of the nozzles for which nozzle map has been set are indicated on the nozzle print pattern printout.
- ◇ Nozzle numbers with overwrite protection are identified with the **▴** mark.

## When an error occurs with automatic configuration

If one of the following errors occurs when executing automatic configuration, try manual configuration or perform the checks and the actions explained below.

### INSTALL WIDER MEDIA



\* Automatic configuration is not performed. Nozzle map settings from before the execution are maintained.

**Meaning** Media of less than 762 mm (30 inches) is used.

Items to be checked	Corrective measures
Check that the media is not less than 762 mm (30 inches).	Use media of 762 mm (30 inches) or larger with automatic configuration. Otherwise use manual configuration.

### MANUALLY CONFIGURE

1

### NOZZLE MAPPING



\* Automatic configuration is not performed. Nozzle map settings from before the execution are maintained.

**Meaning** The amount of light received by the sensors did not reach the reference level.

Items to be checked	Corrective measures
Check that the sensors for automatic print adjustment are not covered with ink mist.	Clean the sensors for automatic print adjustment. (See Cleaning around the ionizers and the sensors for automatic print adjustment on <a href="#">page 131</a> .)
Check that the media is clean.	Feed the media until you reach a clean section.
Check that the media is not wrinkled.	Reinstall the media or feed the media until you reach a section without wrinkles.
Check that you are not using a media type with a light reflection rate too low.	Automatic print adjustment may not be possible with some media types. In such a case, use manual print adjustment.

### MANUALLY CONFIGURE

2

### NOZZLE MAPPING

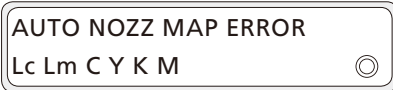


\* Automatic configuration is not performed. Nozzle map settings from before the execution are maintained.

**Meaning** The amount of light received by the sensors exceeds the reference level.

Items to be checked	Corrective measures
Check that the media is not wrinkled.	Reinstall the media or feed the media until you reach a section without wrinkles.
Check that no external light reaches the sensors.	Block the external light or change the printer installation location.
Check that you are not using a media type with a light reflection rate too high.	Automatic print adjustment may not be possible with some media types. In such a case, use manual print adjustment.

(Panel display)



The lower line shows the color with which the automatic nozzle map error occurs.  
The error message is also printed on the result of automatic nozzle map.

(Print result of automatic nozzle map error)

XXX: ERROR 1 MANUALLY CONFIGURE

XXX: ERROR 2 MANUALLY CONFIGURE

\* XXX indicates the head color and number (e.g. Lm2, Y4).

\* The print result does not show the color for which the error occurred. Nozzle map settings from before the execution are maintained.

Colors for which no error has occurred are shown in the print result.

<b>Meaning</b>	Detection was not performed correctly.
----------------	--

Items to be checked	Corrective measures
Check that the media is not skewed or wrinkled and that there are no other media transfer problems.	Install the media again or advance it until there are no wrinkles or dirt. Some media types are not supported by automatic configuration. In such cases, use manual configuration.
Check that the pattern is not dirty or damaged.	You may also change the media and use automatic configuration.
Check that there is no problem with the print head (too many missing dots, etc.).	Perform PH. Recovery. See <b>Clear missing dots (nozzle clogging)</b> on <a href="#">page 226</a> .

XXX: ERROR 3 PERFORM CLEANING

\* XXX indicates the head color and number (e.g. Lm2, Y4).

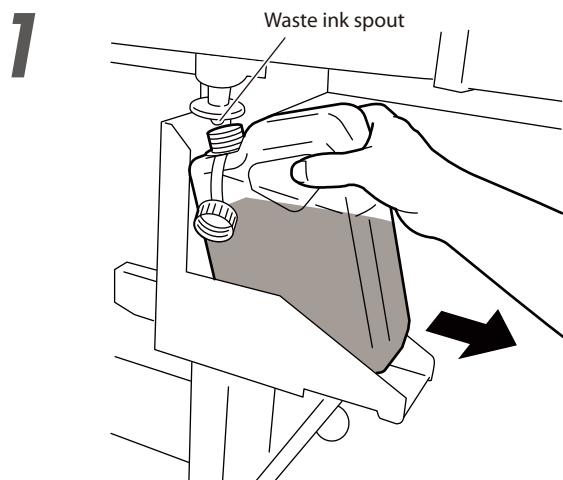
\* The print result does not show the color for which the error occurred. Nozzle map settings from before the execution are maintained.

Colors for which no error has occurred are shown in the print result.

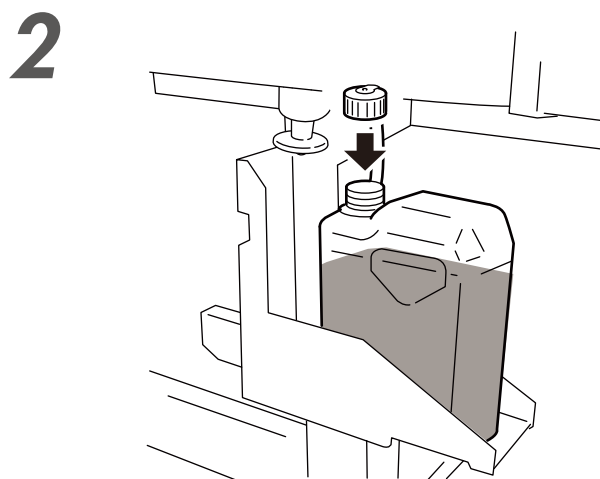
<b>Meaning</b>	The total of the number of clogged nozzles and the number of overwrite protected nozzles exceeds the limit of 10.
----------------	---

Items to be checked	Corrective measures
Check that the total of the number of clogged nozzles and the number of overwrite protected nozzles does not exceed 10.	Perform PH. Recovery. Remove the settings of unnecessary overwrite protected nozzles. See < STEP2 > on <a href="#">page 98</a> . See <b>Clear missing dots (nozzle clogging)</b> on <a href="#">page 226</a> .

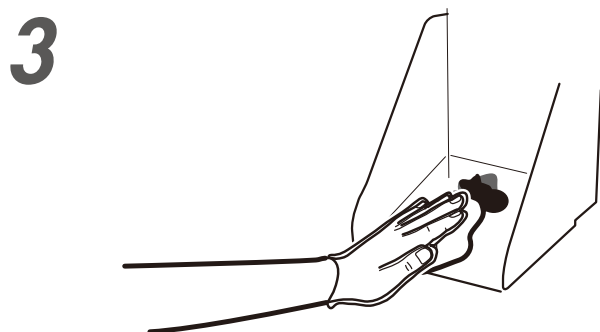
## C Waste ink bottle check and replacement



Remove the bottle from the waste ink spout (tube) by slightly tilting the full waste ink bottle.

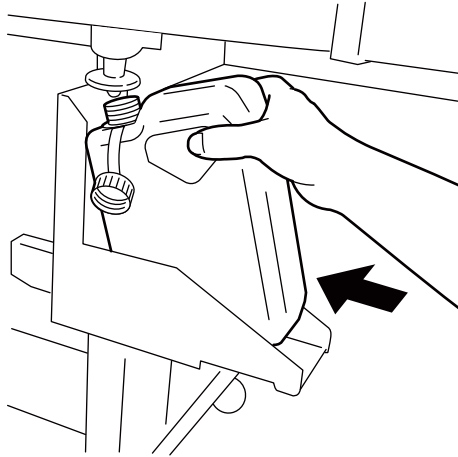


Put the cap on the bottle and remove the bottle.



Wipe off any ink stains around the waste ink bottle.

4



Install a new (empty) waste ink bottle.

5

#BOTTLE EMPTY?  
\*NO



#BOTTLE EMPTY?  
\*YES

The following message is displayed to reset (clear) the waste ink counter.

**Note**

- ◆ The printer automatically calculates waste ink with a counter and displays the message prompting replacement of the waste ink bottle when the waste ink bottle is full. As there is no sensor for the waste ink level, this calculation is just an estimate. Therefore, if the waste ink counter is reset (set to \*YES) and the bottle is not empty, the waste ink may overflow.)

6

#BOTTLE EMPTY?  
↑YES



Select **BOTTLE EMPTY? \* YES** and press **OK** button.

## D Wiper cleaning liquid check and supply

Supply wiper cleaning liquid with the procedure below in the following cases.

- When a printer message prompts you to do so.
- When you notice that the liquid level is low during a daily inspection. Generally, wiper cleaning liquid should be supplied approximately once per month.

**1** PRINTER READY  
01: PAPER / 1626mm



Press the **MAINTENANCE** button.

**2** MAINTENANCE  
↓ START MAINTENANCE



Press the **Down** button to select **WIPER MAINTENANCE**.

**3** MAINTENANCE  
↓ WIPER MAINTENANCE



Press the **OK** button.

**4** >WIPER MAINTENANCE  
↓ REPLACE LIQUID



Press the **Down** button to select **REPLACE LIQUID**, and then press the **OK** button.

**5** >>REPLACE LIQUID  
↓ OK?



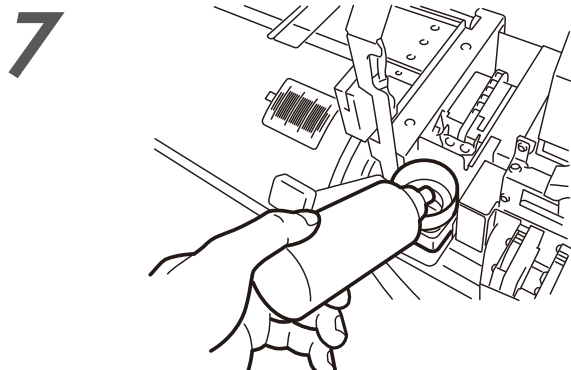
Press the **OK** button to start the operation.

To cancel the operation, press the **CANCEL** button.

**6** OPEN COVERS, REPLACE  
WIPER CLEANING LIQUID



Open the front cover, and then the capping unit cover.

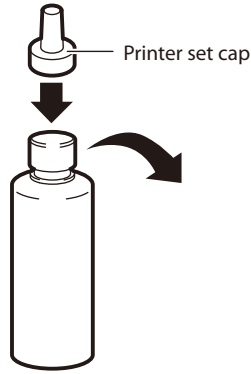


Raise the old wiper cleaning liquid bottle a little and pull out the bottle after making sure that all the liquid has flowed into the printer.

### **Note**

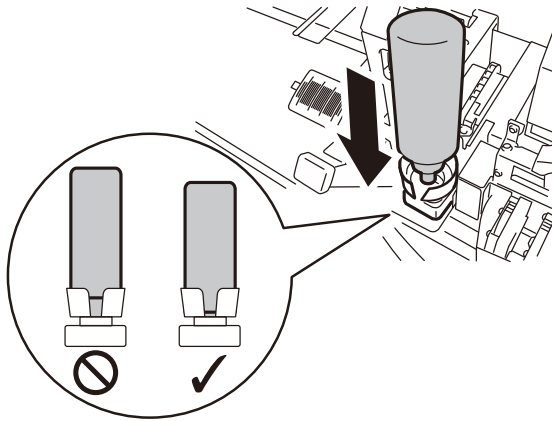
- ◆ Visually check that the waste ink bottle is not full before removing it.

8



Replace the cap of the new wiper cleaning liquid bottle with the printer dedicated cap.

9



Set the wiper cleaning liquid bottle in the printer and push in the stopper of the printer cap by pressing the top of it.

10

AFTER REPLACING WCL  
CLOSE COVERS

Close the capping unit cover and the front cover.

11

REPLACED WCL?  
↓NO

Press the **Down** button to select **YES**.



12

REPLACED WCL?  
↓YES

Press the **OK** button.




13

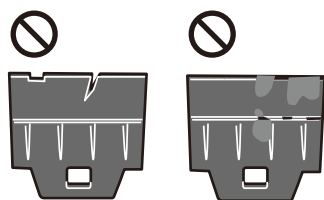
>WIPER MAINTENANCE  
↓REPLACE LIQUID

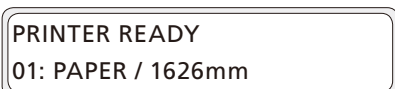
## E Wiper blade cleanliness check and replacement

### Wiper blades check

Check that the wiper blades are not damaged or dirty during the daily inspection.

If one of the wiper blades is as shown below, replace it following the **F Wiper blade cleanliness check and replacement** procedure on  **page 106**.



**1** 



Press the **MAINTENANCE** button.

**2** 



Press the **Down** button to select **WIPER MAINTENANCE**.

**3** 



Press the **OK** button.

**4** 



Press the **Up** and **Down** buttons to select **WIPER BLADE CHECK**, and then press the **OK** button.

**5** 



Press the **OK** button to start the operation.

To cancel the operation, press the **CANCEL** button.

**6** 



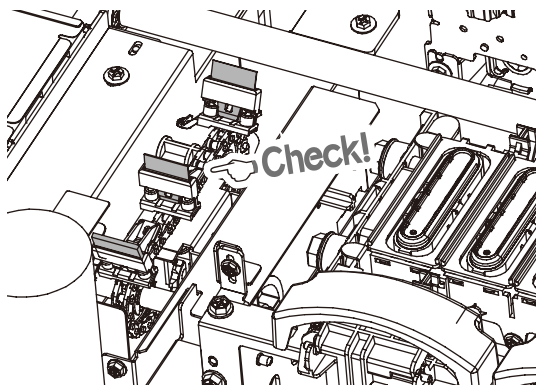


7

OPEN THE COVERS AND CHECK WIPER BLADE



8



9

AFTER CHECKING WIPER BLADE, CLOSE COVERS



WIPER IS MOVING... PLEASE WAIT



The part stops moving.

>WIPER MAINTENANCE  
↓WIPER BLADE CHECK

Open the front cover, and then the capping unit cover.

If a wiper blade is dirty or damaged, perform **WIPER BLADE CHECK** at the end of the cap cleaning operation to replace the wiper blade.

Close the capping unit cover and the front cover.

Press the **Down** button to select **YES**.

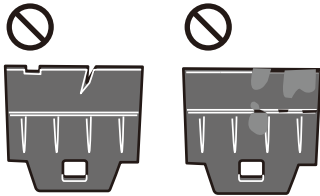
## Wiper blades replacement

Replace the wiper blade in the following cases.

- When a printer message prompts you to do so.
- When you notice that the blade is not clean or damaged during a daily inspection.

Follow the procedure below to replace the wiper blade.

Wiper blade replacement is performed in two steps: first replace the sponge blade, and then replace the two rubber blades.



**1** PRINTER READY  
01: PAPER / 1626mm



Press the **MAINTENANCE** button.

**2** MAINTENANCE  
↓ START MAINTENANCE



Press the **Down** button to select **WIPER MAINTENANCE**.

**3** MAINTENANCE  
↓ WIPER MAINTENANCE



Press the **OK** button.

**4** >WIPER MAINTENANCE  
↓ REPLACE BLADE



Press the **Up** and **Down** buttons to select **REPLACE BLADE**, and then press the **OK** button.

**5** >>REPLACE BLADE  
OK?



Press the **OK** button to start the operation.

To cancel the operation, press the **CANCEL** button.

**6** CARRIAGE IS MOVING  
PLEASE WAIT

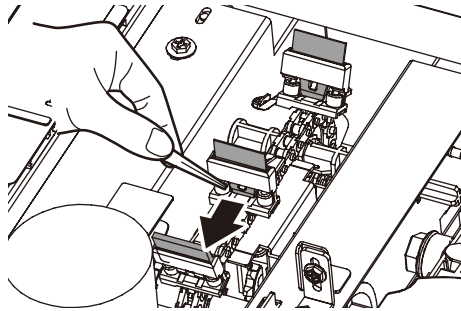


7

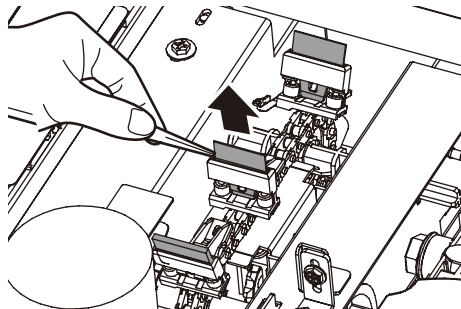
OPEN THE COVERS AND  
REPLACE SPONGE BLADE



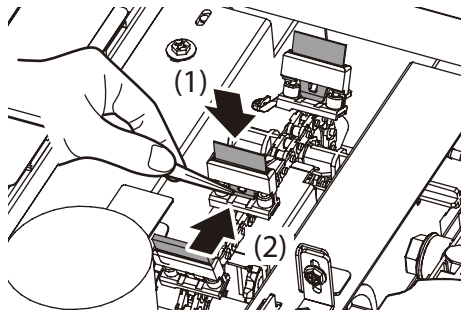
8



9



10



Open the front cover, and then the capping unit cover.

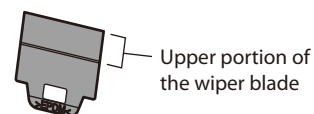
Pinch the lower edge of the wiper blade with a pair of tweezers and pull out the plastic protrusion.

Lift upward to remove the wiper blade.

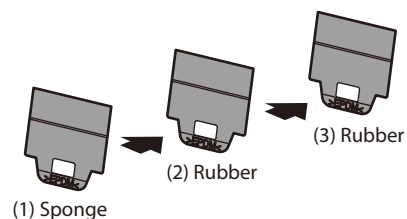
Pinch the rubber portion of a new wiper blade with the pair of tweezers and insert the wiper blade straight from the top. Install it so that the plastic protrusion fits into the hole of the rubber portion.

### CAUTION

- ◆ The front and back of the wiper blade are the same.
- ◆ As the upper portion of the wiper blade touches directly the print head, do not touch it with your hands or pinch it with the tweezers when handling.

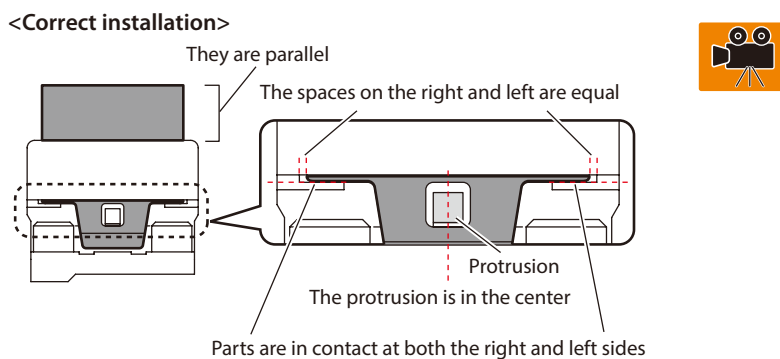


- ◆ Replace the sponge blade, and then the two rubber blades.  
From the front, the sponge blade comes first, then the first rubber blade, and finally the second rubber blade. If you make a mistake in the order, cleaning will not be performed effectively and the print heads will malfunction.



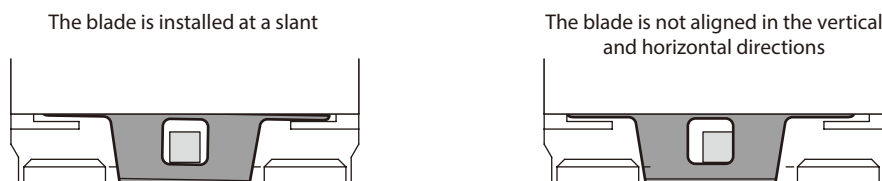
## ! Notes

- ◆ If the rubber blades are not installed correctly, the print head cleaning will not be effective. As a result not only the print quality will decrease, but this may also lead to a malfunction.  
Refer to the example below to install the blades correctly.



- ◆ The cleaning will not be effective if the blades are mistakenly installed as shown below.  
Refer to the example above to correct the position.

<Incorrect installation>



11

AFTER REPLAC. SPONGE  
BLADE, CLOSE COVERS



WIPER IS MOVING...  
PLEASE WAIT



The part stops moving.

Close the capping unit cover and the front cover.

12

OPEN THE COVERS AND  
REPLACE RUBBER BLADE



AFTER REPLAC. RUBBER  
BLADE, CLOSE COVERS



Open the front cover, and then the capping unit cover.

Replace the rubber blades following the procedure from step 8 to step 10 above.

Close the capping unit cover and the front cover.

CARRIAGE IS MOVING  
PLEASE WAIT

↓ Carriage stops moving.

13

REPLACED WIPER BLADE?  
↓ NO

↓

Press the **Down** button to select **YES**.

14

REPLACED WIPER BLADE?  
↓ YES

↓  **OK**

Press the **OK** button.

15

>WIPER MAINTENANCE  
↓ REPLACE BLADE

# Weekly maintenance

## F Cap cleaning (capping unit cleaning, cleaning)

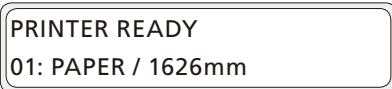
Select START MAINTENANCE on the panel and follow the instructions to perform both capping unit cleaning and cleaning at the same time. You may also perform cleaning independently in this manner.

### Performing wiper blades check, capping unit cleaning and cleaning at the same time

#### CAUTION

To prevent the ink from drying inside the print head's nozzles:

- Do not leave the printer with the carriage detached from the capping unit.
- Complete the capping unit cleaning operation and cap the print heads within 5 minutes.

1 



Press the **MAINTENANCE** button.

2 




Press the **OK** button.

3 



Press the **OK** button to start the operation.

To cancel the operation, press the **CANCEL** button.

4 




After the wiping of the print heads finishes, the carriage moves to the maintenance area.



#### **The printer issues a warning beep.**

- ◇ When the carriage moves, the printer issues a warning beep.

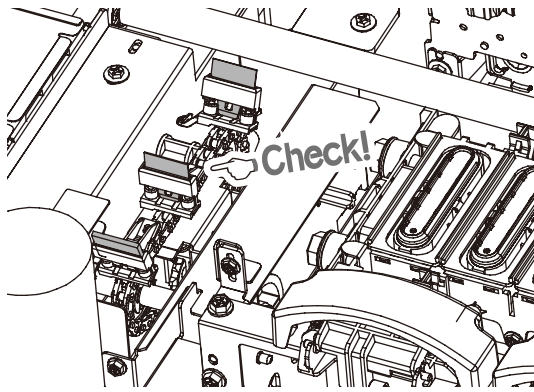
To disable the warning beep, see the  page 187.

5 



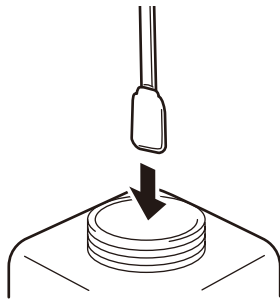
After the carriage has moved to the maintenance area, open the front cover, and then the capping unit cover.

6



If you notice dirt or damage on the wiper blades, execute **REPLACE BLADE** to replace them after the start maintenance has finished.

7



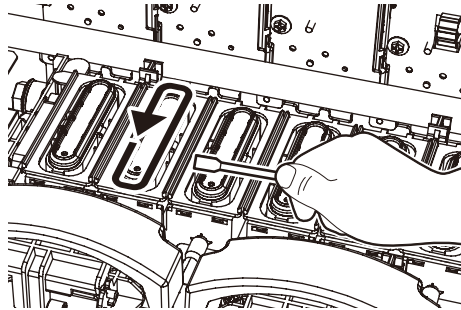
Soak the cleaning swab (thick) in the cap cleaning liquid.



#### TIP

- ◇ To keep the cap cleaning liquid clean, do not soak the cleaning swab (thick) in the cap cleaning liquid bottle again after you have cleaned the caps with it.
- ◇ You can clean the entire capping unit with one cleaning swab (thick) soaked once in cap cleaning liquid.

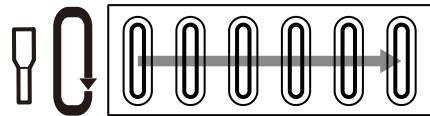
8



Clean the top surface of the caps by using the cleaning swab (thick).

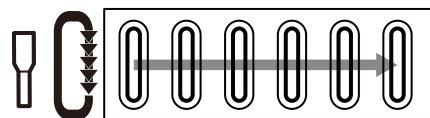


- (1) First, pass the cleaning swab (thick) over the entire circumference of each cap top surface to impregnate the dirt on the surface with cap cleaning liquid. Pass the cleaning swab (thick) starting from the leftmost cap and continue to the rightmost cap in order.



- (2) Next, clean all the dirt by passing the cleaning swab (thick) 5 times over the circumference of each cap top surface.

Start from the leftmost cap and continue to the rightmost cap in order.



### CAUTION

- ◆ Be careful so that the cap cleaning liquid does not adhere to any part other than the caps.
- ◆ The cleaning swab (thick) is intended for a single use only. Use a new cleaning swab (thick) for each cleaning.
- ◆ If the caps are not completely clean after one cleaning operation, use a new cleaning swab (thick) and clean the caps again.
- ◆ With the 6 color specification printer, the rightmost cap does not need to be cleaned.

**9** CLEAN CAPS, CHECK  
WIPER & CLOSE COVERS

**10** CAP CLEANING COMPLETES  
OK?



**11** START PH RECOVERY?  
OK/CANCEL



**12** START PH RECOVERY  
BOTTLE IS EMPTY?



**13** 2ND WIPING OPERATION  
PLEASE WAIT



**14** PH RECOVERING  
REQUIRED TIME Y:YY

Y:YY : Required time

**The cleaning is complete.**

**15** PERFORM NOZZLE PRINT



MAINTENANCE  
↑START MAINTENANCE

**Close the capping unit cover and the front cover.**

The carriage returns automatically to the home position.

**Press the OK button.**

**Press the OK button.**

Press the **CANCEL** button to skip the cleaning.

**Press the OK button.**

This message is not displayed if you pressed the **CANCEL** button in step **11**.

After the wiping operation has finished, the carriage moves to the home position.

**Cleaning starts automatically after the second wiping operation has finished.**



- ◇ Strong cleaning is automatically performed if a given length of media has been printed since the last cleaning operation.
- ◇ A check of the safe scanning sensors may be performed during cleaning. In such a case, the following message is displayed on the panel.

CHECKING SAFE SCAN  
FUNCTION. PLS WAIT.

**Press the OK button.**





## Missing dots are still found even after the cap cleaning...

- ◇ If you still see missing dots even after the cap cleaning above, check the caps visually and remove foreign matters and ink stains from them with a cleaning swab dampened with cap cleaning liquid.

### Performing cleaning independently

1

PRINTER READY  
01: PAPER / 1626mm



PH.RECOVERY

2

PH. RECOVERY  
↓NORMAL



OK

3

>NORMAL XXXXXXXX  
BOTTLE IS EMPTY?



OK

4

PH RECOVERING  
REQUIRED TIME Y:YY

Y:YY: Required time



The cleaning is complete.

PRINTER READY  
01: PAPER / 1626mm

### Press the PH.RECOVERY button.

You can perform PH recovery in the following situations.

- When the printer is idle online
- When the printer is offline
- During printing
- When the printer is in pause

### Press the OK button.



- ◇ NORMAL (cleaning) is not displayed if a given length of media has been printed since the last cleaning operation.

In this case, execute STRONG (strong cleaning).

(See **Strong cleaning** on [page 226](#).)

- ◇ A check of the safe scanning sensors may be performed during cleaning. In such a case, the following message is displayed on the panel.

CHECKING SAFE SCAN  
FUNCTION. PLS WAIT.

### Press the OK button.

An error occurs if the waste ink bottle is full. Follow the instructions to replace the waste ink bottle.

[page 102 Waste ink bottle check and replacement](#)

### Start the print head cleaning.

Print head cleaning takes several minutes.

When the cleaning starts, the required time is displayed and the time is counted down every 10 seconds.

Online idle: Switches to online state

Offline: Stays offline

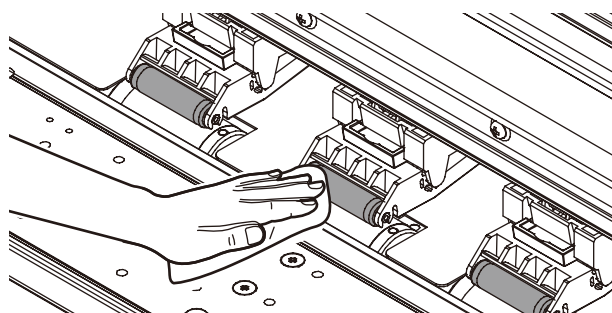
Printing: Resume printing

In pause: Stays in pause

## G Pressure roller cleaning

If ink or other substances are on the pressure roller, they may soil the media printed surface.

In such cases, wipe off any substances using a soft cloth moistened with water or water-diluted neutral detergent.



### Notes

- ◆ Always turn the printer off before cleaning or doing other maintenance operation on the printer.
- ◆ Pay attention not to put some dust or particles onto the pressure roller by touching the grit rollers with the cloth.

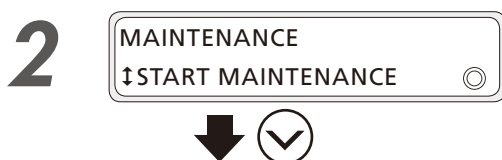
# Maintenance when a message is displayed

## H Wiper sponge replacement

Replace the wiper sponge with the procedure below when a printer message prompts you to do so. Generally, the wiper sponge should be replaced approximately once every six month.



Press the **MAINTENANCE** button.



Press the **DOWN** button to select **WIPER MAINTENANCE**.



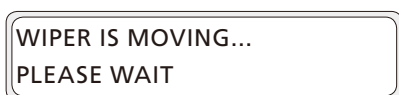
Press the **OK** button.



Press the **Down** button to select **REPLACE SPONGE**, and then press the **OK** button.

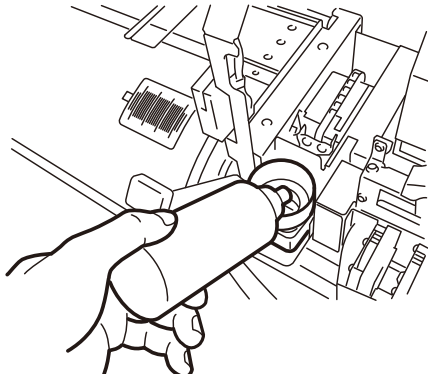


Press the **OK** button to start the operation.  
To cancel the operation, press the **CANCEL** button.



Open the front cover, and then the capping unit cover.

7

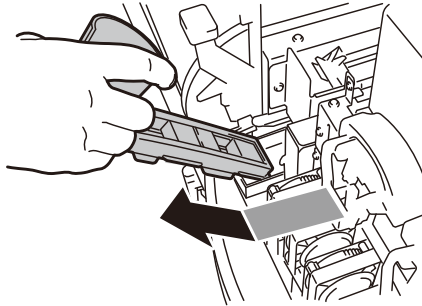


Raise the wiper cleaning liquid bottle a little and pull out the bottle after making sure that all the liquid has flowed into the printer.

**! Note**

- ◆ Visually check that the waste ink bottle is not full before removing it.

8



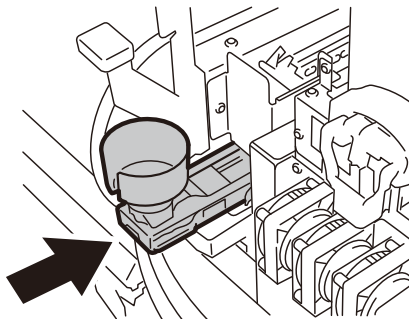
Lift the wiper sponge little by little while pulling it toward you. After confirming that the liquid in the wiper sponge has completely flowed in the printer, remove the wiper sponge.



**! Note**

- ◆ Just after the old wiper cleaning liquid has flowed in the printer, liquid may overflow from the wiper sponge. Therefore, wait at least one minute before pulling the wiper sponge to prevent the liquid from overflowing from the wiper sponge.

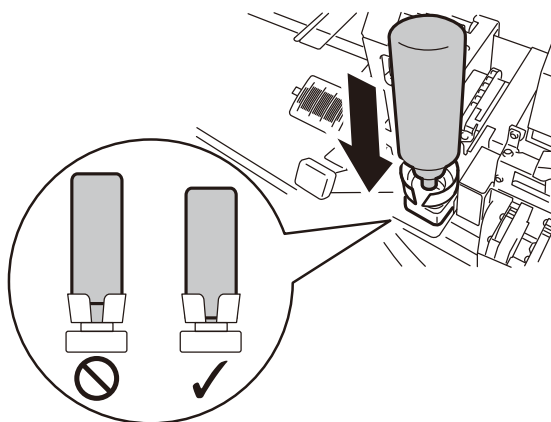
9



**Install a new wiper sponge.**

Insert it as far as it goes until it clicks.

10



**Install a new wiper cleaning liquid bottle.**

( page 104 Wiper cleaning liquid check and supply)

11

AFTER REPLACING WIPER SPONGE, CLOSE COVERS



CARRIAGE IS MOVING  
PLEASE WAIT



Carriage stops moving.

Close the capping unit cover and the front over.

12

REPLACED SPONGE?  
↓ NO



Press the **Down** button to select **YES**.

13

REPLACED SPONGE?  
↓ YES



Press the **OK** button.

14

>WIPER MAINTENANCE  
↓ REPLACE SPONGE

You may also be prompted by a printer message to replace one of the following consumables.

- Waste ink bottle
- Wiper cleaning liquid bottle
- Wiper blade

See Routine maintenance for the replacement procedures for these consumables.

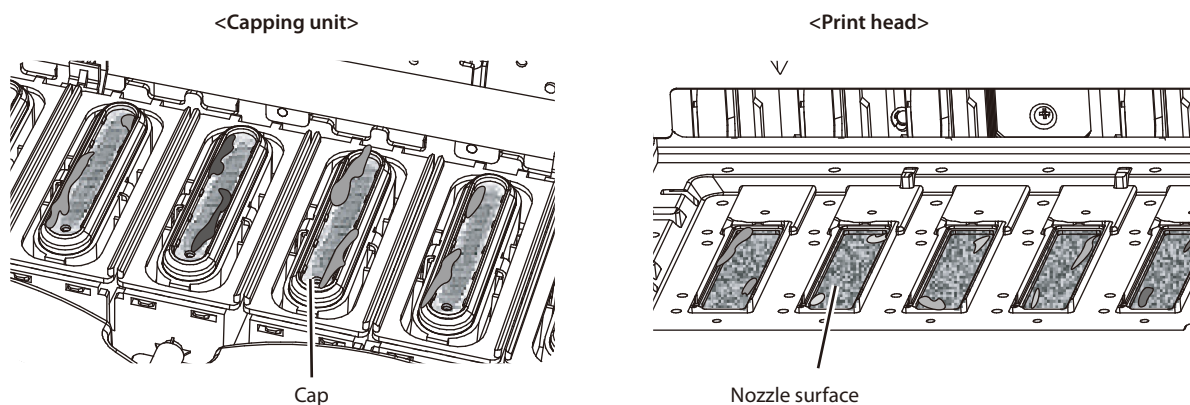
## I Sheet mount cleaning

Perform sheet mount cleaning using a head cleaning sheet when the printer displays a message prompting you to do so. Generally, sheet mount cleaning should be performed approximately once per month.



### How long does it take?

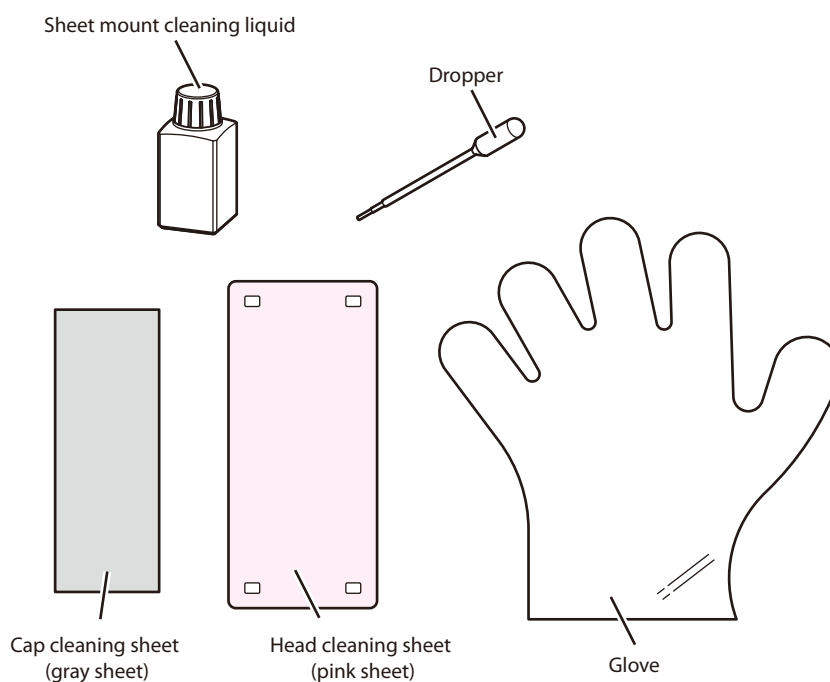
- ◇ The required time for sheet mount cleaning is approximately 1 hour.



### Note

- ◆ Do not rub the print heads with a cleaning swab. This may cause the printer to malfunction.

## Preparing the sheet mount cleaning



- ◇ It is recommended to remove the media before executing sheet mount cleaning.

## Performing sheet mount cleaning

Perform the operation following the instructions below.

**1** PRINTER READY  
01: PAPER / 1626mm



**2** MAINTENANCE  
↓ START MAINTENANCE



**3** MAINTENANCE  
↓ PH MAINTENANCE



**4** > PH MAINTENANCE  
↓ SHEET MOUNT CLNG



**5** >> SHEET MOUNT CLNG  
OK?



CARRIAGE IS MOVING  
PLEASE WAIT



**6** OPEN COVERS



Press the **MAINTENANCE** button.

Press the **Down** button to select **PH MAINTENANCE**.

Press the **OK** button.

Press the **Down** button to select **SHEET MOUNT CLNG**, and then press the **OK** button.

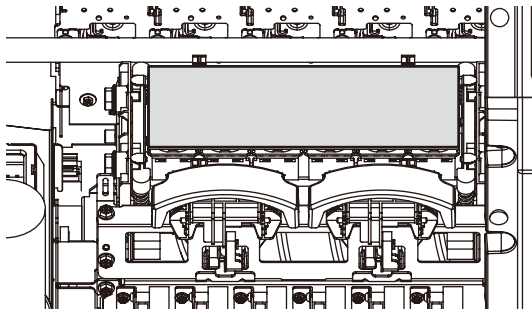
Press the **OK** button.

The carriage moves to the maintenance position.

Open the front cover, and then the capping unit cover.

# 7

## INSTALL GRAY SHEET



Place the gray sheet (cap cleaning sheet) to cover all six caps.

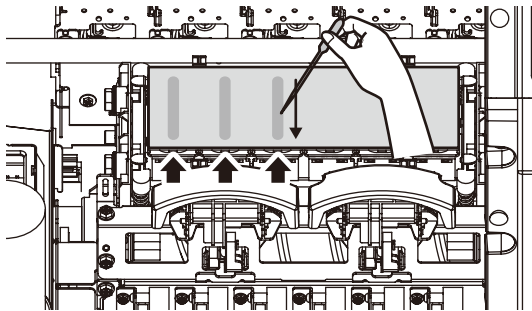
### Note

- ◆ Do not place the sheet onto the 4 rollers indicated by the arrows in the figure on the left. Otherwise this may decrease the cleaning effectiveness.

Press the **OK** button.

# 8

## DRIP CLEANING LIQUID ON GRAY SHEET



Apply 1 ml of liquid as shown with the arrow in the figure, and repeat the operation for each color.



Draw 1 ml of sheet mount cleaning liquid with the dropper (use the gradations), and apply 1 ml to the gray sheet (cap cleaning sheet) for each color.

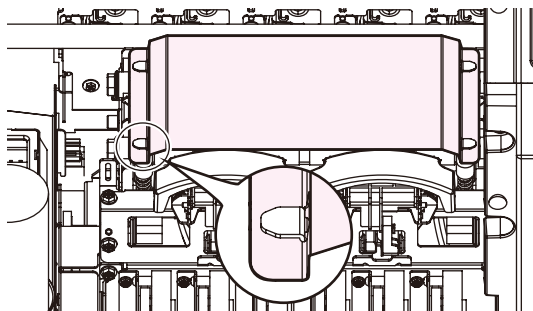
The liquid must be applied perpendicularly from the location of the tube of each color (shown with the arrows) to form parallel lines.

Press the **OK** button.



# 9

INSTALL PINK SHEET



Place the pink sheet (head cleaning sheet) over the gray sheet and attach the hooks.

### Note

- ◆ Securely attach the four hooks. Otherwise the sheet may detach when entering into contact with the print heads, which decreases the effectiveness of the cleaning. The four hooks are placed at the four corners of the capping unit as shown in the figure to the left.



# 10

CLOSE COVERS



CARRIAGE IS MOVING  
PLEASE WAIT

Carriage stops moving.

Press the **OK** button.

Close the capping unit cover and the front cover.

The carriage moves to the home position.

### Note

- ◆ If the current procedure is interrupted by an error before the step 10, start sheet mount cleaning again from step 1.

11

CLEANING...  
REQUIRED TIME      XX:XX

↓ The sheet mount cleaning is complete.

 **Note**

- ◆ The required time for sheet mount cleaning is approximately 1 hour. When sheet mount cleaning has finished, follow the panel messages to remove the cleaning sheet without delay.



**To interrupt the sheet mount cleaning**

Press the **CANCEL** button.

CANCEL SHEET MOUNT  
CLEANING?



Go to **12**.

12

CLEANING COMPLETE  
PRESS OK BUTTON



CARRIAGE IS MOVING  
PLEASE WAIT

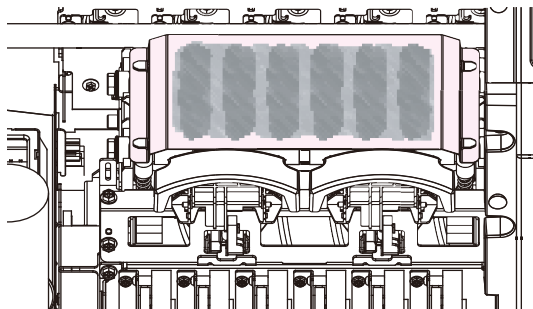
↓ Carriage stops moving.

Press the **OK** button.

The carriage moves to the maintenance position.

13

OPEN COVERS



Open the front cover, and then the capping unit cover.



14

REMOVE PINK SHEET



Remove the pink sheet (head cleaning sheet) and press the **OK** button.

15

REMOVE GRAY SHEET



Remove the gray sheet (cap cleaning sheet) and press the OK button.

16

CLOSE COVERS



Close the capping unit cover and the front cover.

CARRIAGE IS MOVING  
PLEASE WAIT

Downward arrow Carriage stops moving.

The carriage moves to the home position.

START CLEANING  
BOTTLE IS EMPTY?



Press the OK button.

Check visually that the waste ink bottle is not full.

PH RECOVERING  
REQUIRED TIME XX:XX



(The cleaning starts.)

>PH MAINTENANCE  
↓SHEET MOUNT CLNG

Sheet mount cleaning is complete.

**Note**

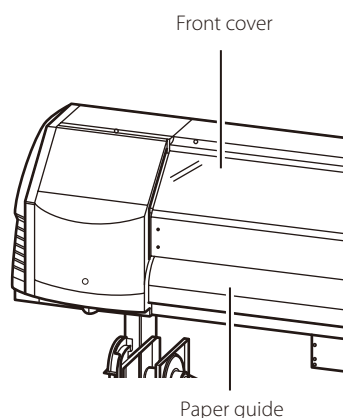
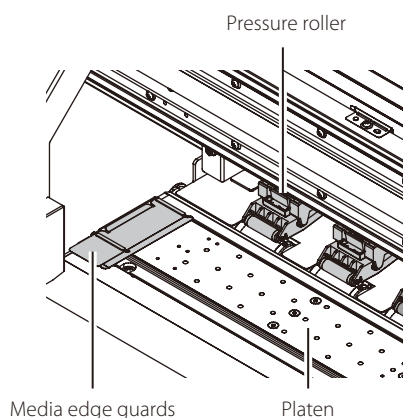
◆ If the current procedure is interrupted by an error before you remove the pink sheet and the gray sheet, follow the procedure below to remove the sheets.

1. Move the carriage to the maintenance area. (See Head guard cleaning on page 126.)
2. Open the front cover, and then the capping unit cover.
3. Remove the pink sheet and the gray sheet that remained on the caps.
4. Close the capping unit cover, and then the front cover.
5. Move the carriage to the home position.
6. Perform a strong cleaning. (See Strong cleaning on page 226.)

# Maintenance when the printer is dirty

## J Printer cleaning

Clean the printer when the dirt becomes noticeable. Clean the printer approximately once per week.



### Head guard cleaning

1  
PRINTER READY  
01: PAPER / 1626mm



Press the **MAINTENANCE** button.

2  
MAINTENANCE  
↓ START MAINTENANCE



Press the **Down** button to select **PH MAINTENANCE**.

3  
MAINTENANCE  
↓ PH MAINTENANCE



Press the **OK** button.

4  
>PH MAINTENANCE  
↓ SET PH FOR CHECK



Press the **Down** button to select **SET PH FOR CHECK**, and then press the **OK** button.

5

>>SET PH FOR CHECK  
OK?



Press the **OK** button.

6

CARRIAGE IS MOVING  
PLEASE WAIT

Carriage stops moving.

The carriage moves to the maintenance area.



**The printer issues a warning beep.**

- ◇ When the carriage moves, the printer issues a warning beep.  
To disable the warning beep, see the [page 187](#).

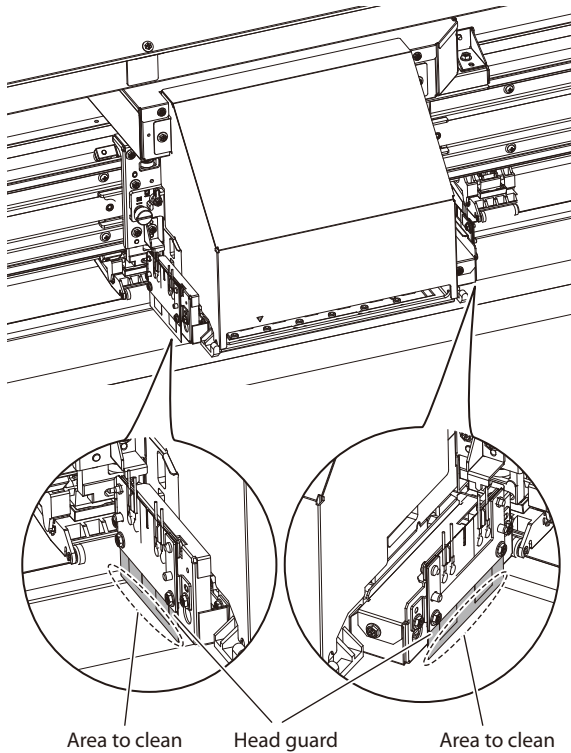
7

OPEN COVERS AND  
CHECK PRINT HEADS



Open the front cover, and then the maintenance area cover.

8



Dip the cleaning swab in the cap cleaning liquid and remove the dirt on the right and left head guards of the carriage. Visually check the result and leave it for few minutes.

**Note**

- ◇ Do not dip a cleaning roller swab once used in the cap cleaning liquid bottle. The cap cleaning liquid will get dirty.

9

After wiping the head guards with a soft cloth, close the maintenance area cover and the front cover.

**Note**

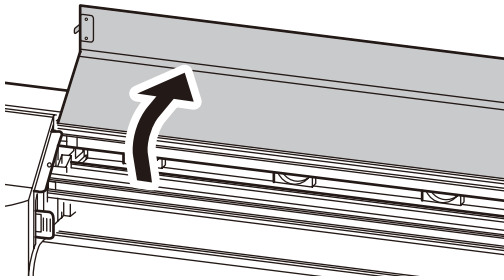
- ◇ Do not expose the print heads for an unnecessarily long time when taking them out of the capping unit. The print heads may dry and cause malfunction.

## Media edge guard cleaning

1

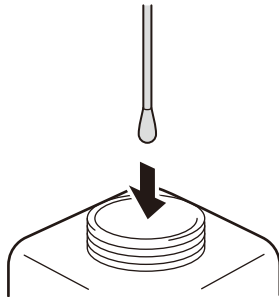
If a media is installed, remove it.

2



Open the front cover.

3



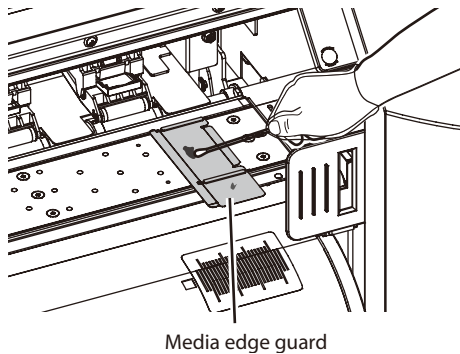
Soak a cleaning swab in the cap cleaning liquid.



### TIP

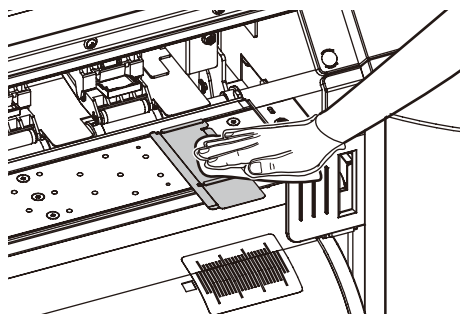
- ◇ To keep the cap cleaning liquid clean, do not soak the cleaning swab in the cap cleaning liquid bottle again after you have cleaned the edge guards with it.
- ◇ The cleaning swab is intended for a single use only. Use a new cleaning swab for each cleaning.

4



Apply the cap cleaning liquid to the stains of the media edge guard.

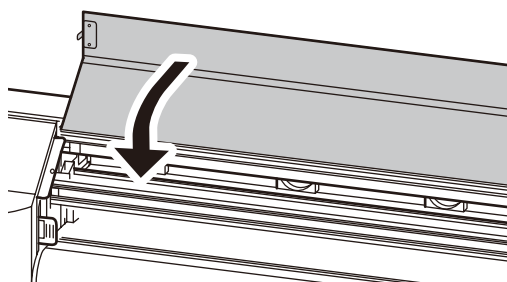
5



Clean the stains with a soft and clean cloth.

# 6

Close the front cover.



Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

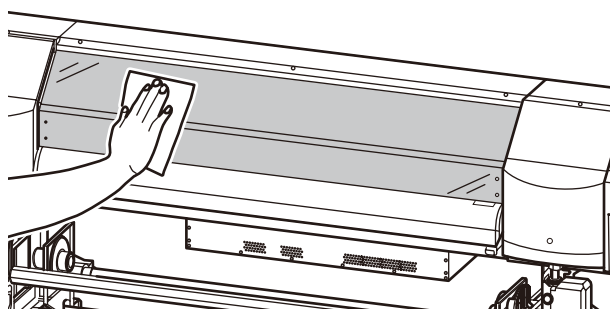
Troubleshooting

Menu tree

Appendix

## Front cover cleaning

If the printer exterior is smeared, moisten a soft cloth with water or water-diluted neutral detergent, wring it, and clean the exterior.

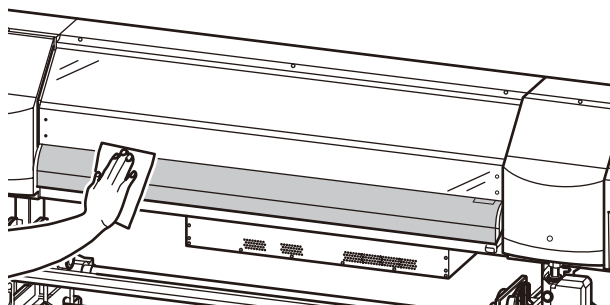


### Notes

- ◆ Always turn the printer off before cleaning or doing other maintenance operation on the printer.
- ◆ Never use volatile solvent such as thinner and benzene. The coating may come off or discolor.

## Paper guide cleaning

In case of dust or paper dust, clean the printer with a vacuum cleaner. If lots of ink or other substance adhere to the printer, clean it with soft cloth moistened with a neutral detergent.



### Notes

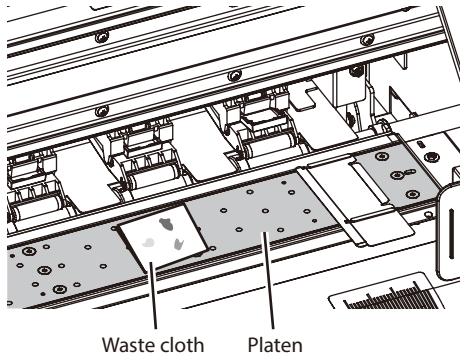
- ◆ Always turn the printer off before cleaning or doing other maintenance operation on the printer.
- ◆ Do not blow paper dust away. The printer may malfunction if paper dust or dust enters inside. This may also degrade the print quality.
- ◆ If the end of the media used is glued to the paper tube, the glue may adhere to the paper guide or the platen. In such cases, be sure to remove all adhered glue.

## Platen cleaning

Use the following procedure to clean the platen if

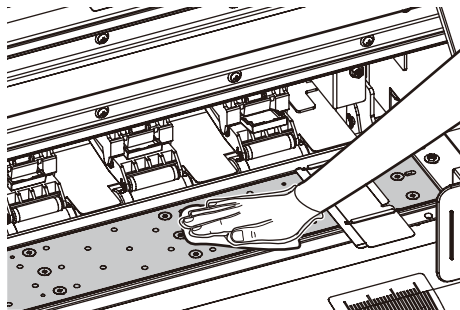
- vinyl chloride adhesive gets on the platen
- ink drops on the platen (the procedure to clean ink stains is explained)

1



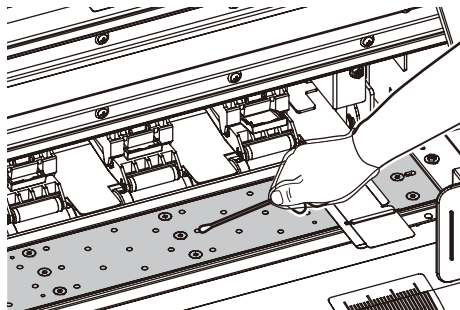
Open the front cover and soak up the ink on the platen with a piece of waste cloth.

2



Wipe the ink stains off the platen with a soft cloth moistened with a neutral detergent.

3



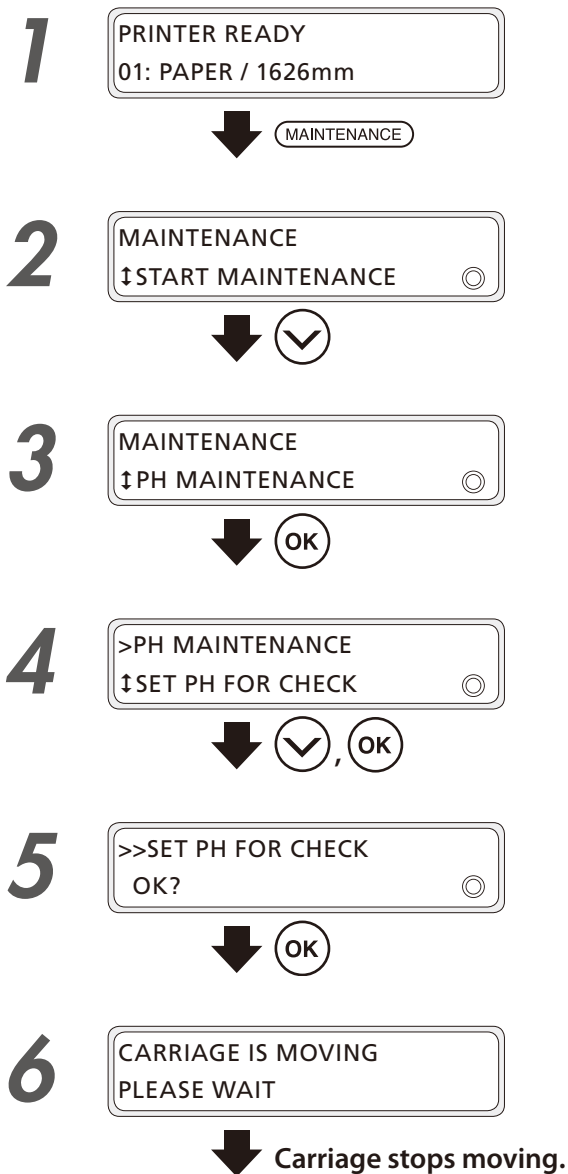
If the ink penetrates into the vacuum hole on the platen, wipe out the ink stuck in the hole with a commercially available cotton swab\*. Then, moisten the cotton swab with neutral detergent and wipe out once more.

\* Use a cotton swab with a tip of 3 mm diameter.



## K Cleaning around the ionizers and the sensors for automatic print adjustment

Ink may adhere to the area around the ionizers and to the sensors for automatic print adjustment due to the effect of the ions generated by the ionizers. Periodic cleaning is required because this may cause a loss of precision of the automatic print adjustment function and ink particles to fall onto the printout. The amount of ink that adheres to these areas varies depending on the print data and the ionizer usage, but it is recommended to clean the area approximately once per year.



Press the **MAINTENANCE** button.

Press the **Down** button to select **PH MAINTENANCE**.

Press the **OK** button.

Press the **Down** button to select **SET PH FOR CHECK**, and then press the **OK** button.

Press the **OK** button.

The carriage moves to the maintenance area.



### **The printer issues a warning beep.**

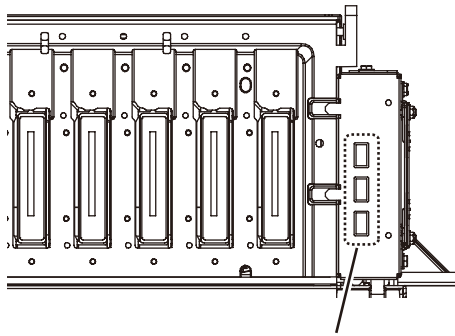
- ◇ When the carriage moves, the printer issues a warning beep.  
To disable the warning beep, see the **page 187**.

7

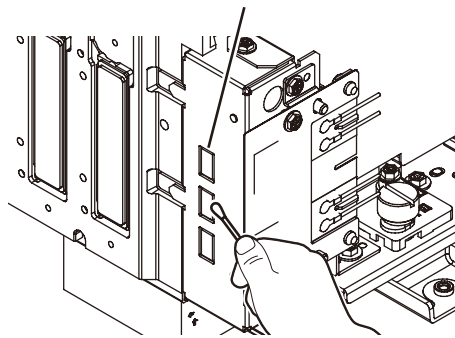
OPEN COVERS AND  
CHECK PRINT HEADS



8



Sensors for automatic print adjustment



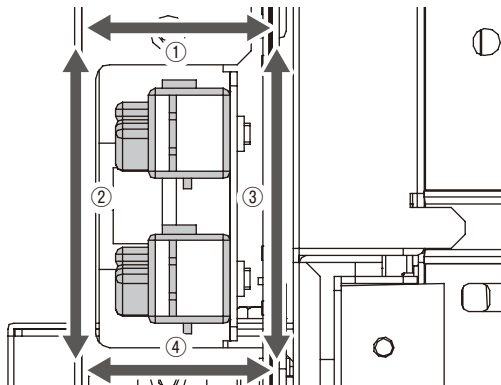
Open the front cover, and then the maintenance area cover.

Clean the surface of the sensors for automatic print adjustment with a cleaning swab. Three holes are aligned on the bottom plate at the carriage left side. There is a sensor inside each hole. Clean them by softly wiping their surface with a cleaning swab to remove the ink.

**! Note**

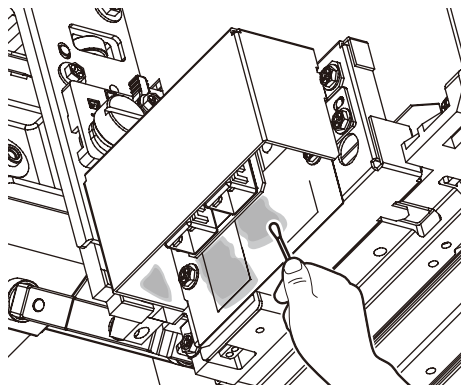
- ◆ Do not put any substances onto the cleaning swab as it may cause the sensors to malfunction.

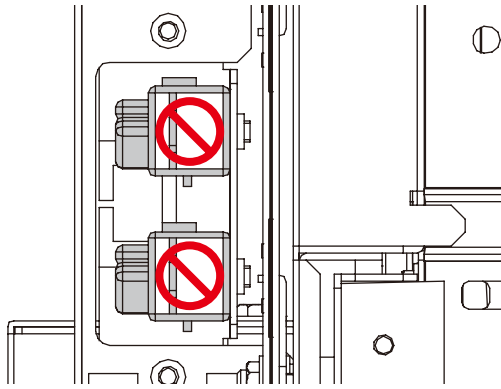
9



Clean the areas around the ionizer nozzles with a cleaning swab. The ink adheres principally onto four areas ((1) to (4) in the figure) inside the ionizers cover plate at the bottom of the carriage.

Wipe off any ink from these areas with a cleaning swab.





### Note

- ◆ Do not touch the inside of the ionizer module (blue part) with the cleaning swab. The electrode that generates ions is made of a thin wire and can be broken easily if touched. If broken, the ionizers will not generate ions anymore.

**10**

CHECK PRINT HEADS  
THEN CLOSE COVERS




**11**

CARRIAGE IS MOVING  
PLEASE WAIT



Carriage stops moving.

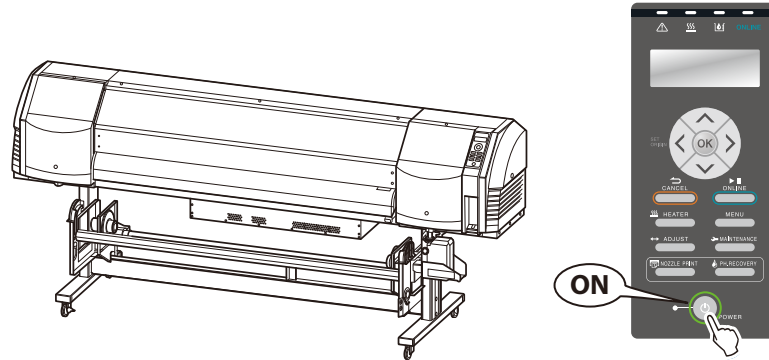
>PH MAINTENANCE  
↓SET PH FOR CHECK 

Close the maintenance area cover and the front cover.

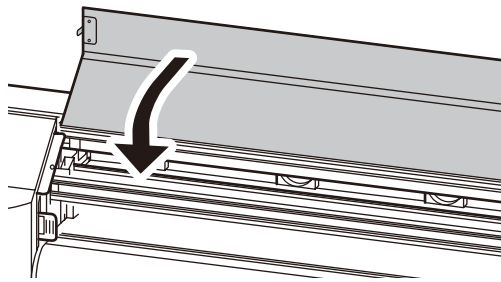
# After the operation of the day

The printer has an internal clock which allows it to wash the print heads automatically, flushing some ink through the print heads, which keeps the print heads in good condition. To ensure the printer's automatic maintenance operation, after the operations of the day keep the printer in the conditions below.

## 1. Keep the printer turned on.



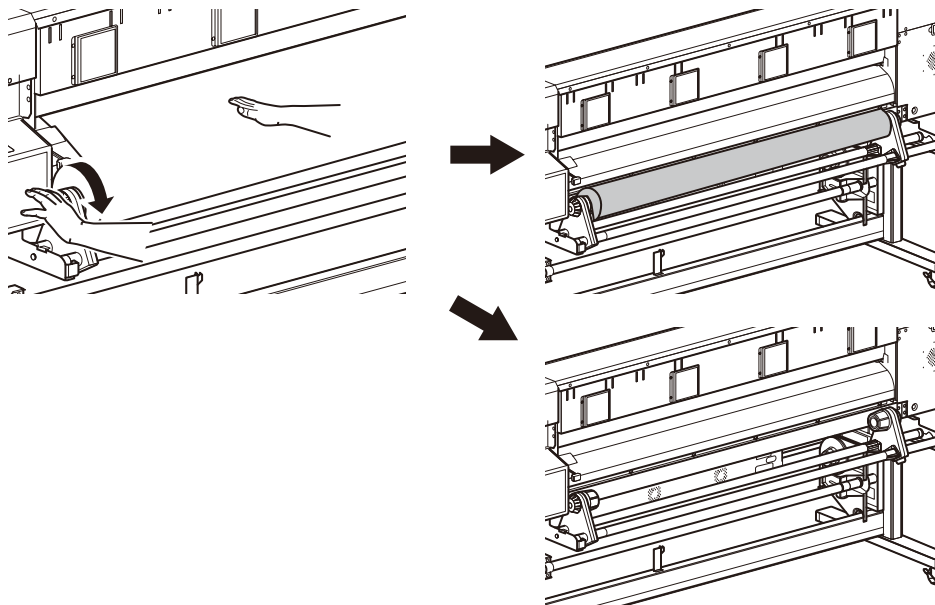
## 2. Keep the front cover closed.



## 3. Take up the media on the TUR unit, or remove the media from the printer.

If you keep the media loaded on the printer for a long time, the media may wrinkle on the platen or a gripping trace may be left on the media. To keep the media in good condition, the operation below is recommended.

Especially after printing on vinyl media, be sure to remove it from the printer. Note that vinyl media wrinkles easily.





# *Advanced operations*

Before printing

Loading the media

Adjustment

Maintenance

**Advanced operations**

Troubleshooting

Menu tree

Appendix

# When not using the printer for more than 2 weeks

Always set the printer power to on to perform the fill cap operation.



## What is fill cap?

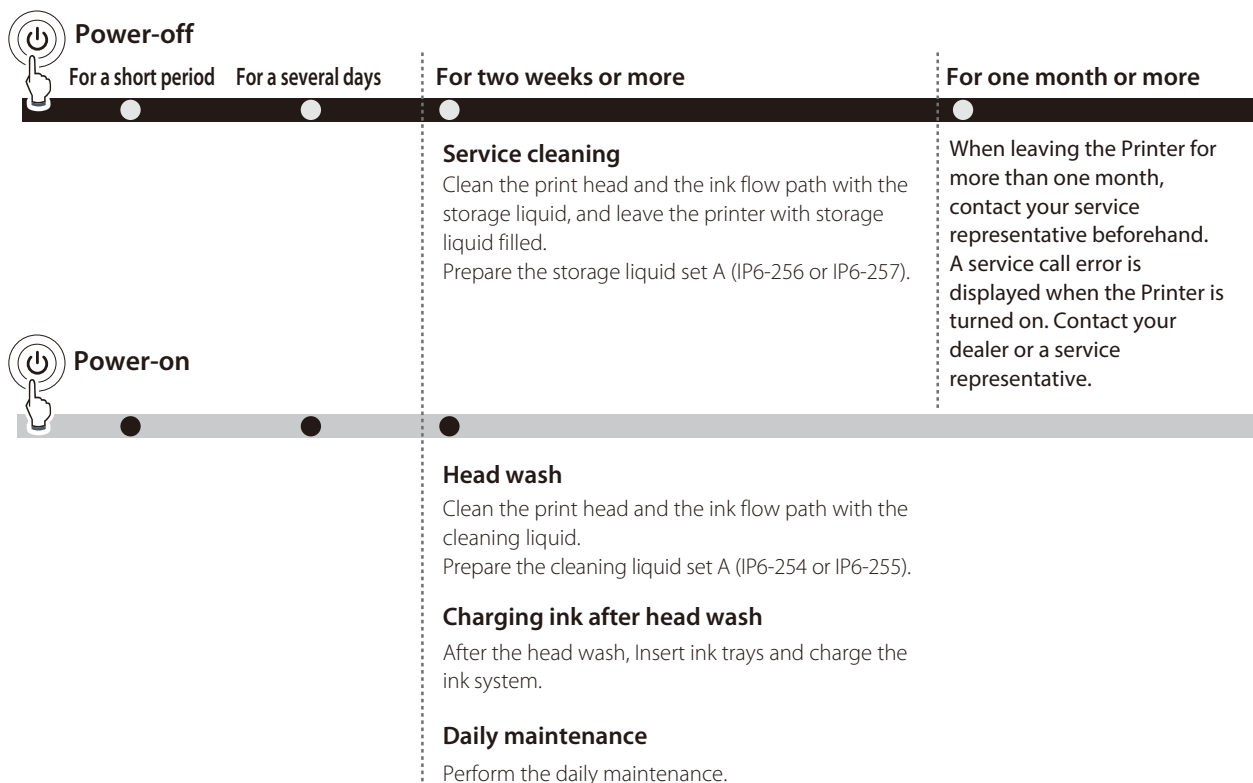
- ◇ This function fills the caps with ink to soak the print heads (nozzle surface) in order to prevent clogged nozzles due to ink drying.  
Use this function also when several cleaning operations could not clear the clogged nozzles.

The printer automatically performs the fill cap operation, which keeps the print heads in good condition, when 72 hours has elapsed after it entered the standby state (then once every 3 days).

It is therefore recommended to always keep the printer turned on.

If the printer stays turned on and is not used for 2 weeks or longer, you will have to perform the wash operation, fill the ink system, and execute daily maintenance following the procedure below.

If you have to leave the printer turned off for a long time, follow the instructions below to perform service cleaning before turning the printer off.



## CAUTION

- ◆ To protect the print heads, do not leave the printer for more than one month with no ink in the system.
- ◆ During the service cleaning or head wash, do not open or close the front cover or the pressure roller lever. Otherwise, the printer may restart its initial operation from the beginning, and waste the ink and cleaning liquid.

## Service cleaning

1 PRINTER READY  
01: PAPER / 1626mm



2 MAINTENANCE  
↓ START MAINTENANCE



3 MAINTENANCE  
↓ PH MAINTENANCE



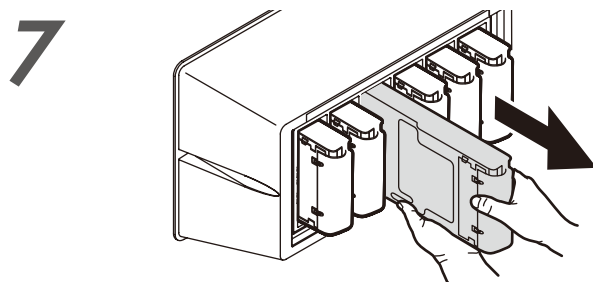
4 >PH MAINTENANCE  
↓ SHEET MOUNT CLNG



5 >PH MAINTENANCE  
↓ CLEAN FOR STORAGE



6 >>CLEAN FOR STORAGE  
BOTTLE IS EMPTY?



Press the **MAINTENANCE** button.

Press the **Down** button to select **PH MAINTENANCE**.

Press the **OK** button.

Press the **Down** button to select **CLEAN FOR STORAGE**.

Press the **OK** button.

Confirm that the waste ink bottle is empty and press the **OK** button.

REMOVE Lc INK  
CARTRIDGE

**Remove the ink cartridges.**

Remove all the ink cartridges.

8

START DRAINING  
BOTTLE IS EMPTY?

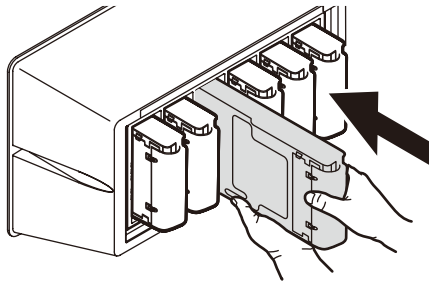


DRAINING  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)



9



SET STORAGE LIQUID  
CARTRIDGE IN SLOT Lc

Insert the storage liquid cartridges in all the slots.

(All the storage liquid cartridges must be inserted.)

10

START SL CHARGING  
BOTTLE IS EMPTY?



CHARGING SL  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)



Confirm that the waste ink bottle is empty and press the OK button.

11

>PH MAINTENANCE  
↓CLEAN FOR STORAGE

Repeat steps 7 to 10.



## Head wash



◇ Set the cleaning liquid cartridges to the optional ink trays in advance to facilitate the procedure.

1

PRINTER READY  
01: PAPER / 1626mm



MAINTENANCE

Press the **MAINTENANCE** button.

2

MAINTENANCE  
↓ START MAINTENANCE



Press the **Down** button to select **PH MAINTENANCE**.

3

MAINTENANCE  
↓ PH MAINTENANCE



Press the **OK** button.

4

>PH MAINTENANCE  
↓ SHEET MOUNT CLNG



Press the **Down** button to select **CLEAN PH & INK SYS**.

5

>PH MAINTENANCE  
↓ CLEAN PH & INK SYS



Press the **OK** button.

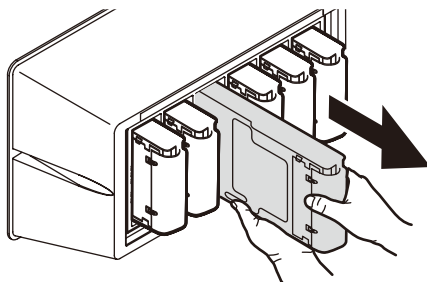
6

>>CLEAN PH & INK SYS  
BOTTLE IS EMPTY?



Confirm that the waste ink bottle is empty and press the **OK** button.

7



REMOVE STORAGE LQD  
CRTG FROM SLOT Lc

Remove all the storage liquid cartridges.

8

START DRAINING  
BOTTLE IS EMPTY?



Confirm that the waste ink bottle is empty and press the OK button.

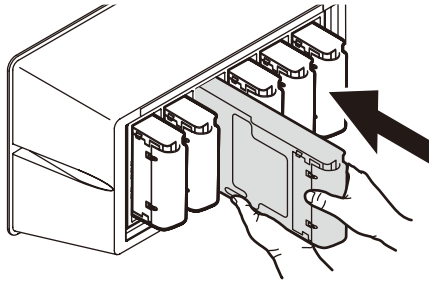
Draining starts.

DRAINING  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)



9



SET CLEANING LIQUID  
CARTRIDGE IN SLOT Lc

Insert the cleaning liquid cartridges in all the slots.

(All the cleaning liquid cartridges must be inserted.)

10

START CL CHARGING  
BOTTLE IS EMPTY?



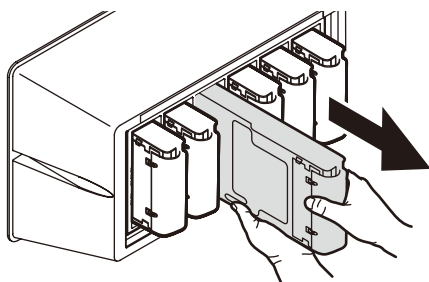
Confirm that the waste ink bottle is empty and press the OK button.

CHARGING CL  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)




11



REMOVE CLEANING LQD  
CRTG FROM SLOT Lc

Remove all the ink cartridges, with cleaning liquid cartridges set on them.

12

START DRAINING  
BOTTLE IS EMPTY? 



DRAINING  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)



13

SET Lc INK CARTRIDGE

Confirm that the waste ink bottle is empty and press the OK button.

Draining starts.

Repeat steps 9 to 12.

## Priming the ink system after head wash

1 PRINTER READY  
01: PAPER / 1626mm



Press the **MAINTENANCE** button.

2 MAINTENANCE  
↓ START MAINTENANCE



Press the **Down** button to select **PH MAINTENANCE**.

3 MAINTENANCE  
↓ PH MAINTENANCE



Press the **OK** button.

4 >PH MAINTENANCE  
↓ SHEET MOUNT CLNG



Press the **Down** button to select **PRIME INK SYSTEM**.

5 >PH MAINTENANCE  
↓ PRIME INK SYSTEM

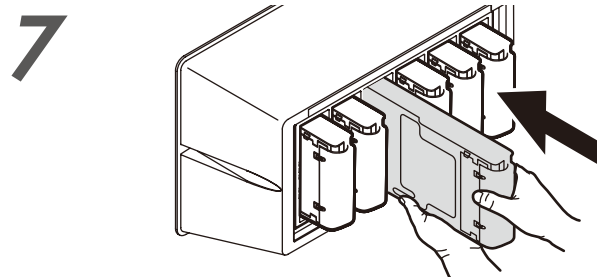


Press the **OK** button.

6 >>PRIME INK SYSTEM  
BOTTLE IS EMPTY?



Confirm that the waste ink bottle is empty and press the **OK** button.



SET Lc INK CARTRIDGE

Insert all the ink cartridges.

8

START INK CHARGING  
BOTTLE IS EMPTY? 



CHARGING INK  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)



9


START CLEANING  
BOTTLE IS EMPTY? 



PH RECOVERING  
REQUIRED TIME Y:YY

Y:YY : Required time (min:sec, decrease every 10 seconds)



>PH MAINTENANCE  
↓PRIME INK SYSTEM 

Confirm that the waste ink bottle is empty and press the OK button.

Press the OK button.

Normal cleaning starts.

The panel display returns to the previous screen after the cleaning has finished.

# Check the printer information



- ◇ Press the MENU button during printing to check the printer information. Then press the ONLINE button to return to the normal panel display.

## Check the remaining ink level

### During printing

1 PRINTING...  
STANDARD ND BI



Press the **MENU** button.

2 MENU  
↓ WARNING INFO



Press the **Down** button to select **INK INFORMATION**.

3 MENU  
↓ INK INFORMATION



Press the **OK** button.

4 > INK INFORMATION  
↓ REMAINING INK



Press the **OK** button.

5 >> REMAINING INK  
↓ CC XXX%

CC: ink color  
XXX%: Remaining ink

When the remaining ink (total ink - used ink) falls under 10%, LOW is displayed.

Press the **Up** and **Down** buttons to select the color whose ink you want to check.

## Not during printing

**1** PRINTER READY  
01: PAPER / 1626mm



**2** MENU  
↓ INFORMATION



**3** >INFORMATION  
↓ WARNING INFO



**4** >INFORMATION  
↓ INK INFORMATION



**5** >>INK INFORMATION  
↓ REMAINING INK



**6** >>>REMAINING INK  
↓ CC XXX%

CC: ink color  
XXX%: Remaining ink

Press the **MENU** button.

Press the **OK** button.

Press the **Down** button to select **INK INFORMATION**.

Press the **OK** button.

Press the **OK** button.

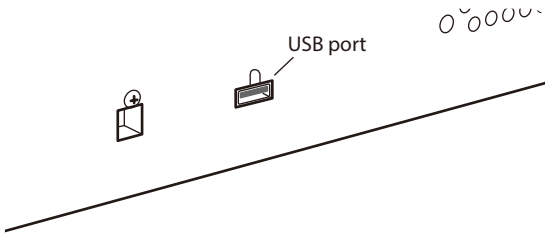
When the remaining ink (total ink - used ink) falls under 10%, LOW is displayed.

Press the **Up** and **Down** buttons to select the color whose ink you want to check.

## Export printer information

Menu information can be exported in the PDF format to the USB drive.

1



**Insert a USB drive in the USB port.**

The FAT32 format is recommended for the USB drive.

2



MAINTENANCE

**Press the MAINTENANCE button.**

3



**Press the Down button to select EXPORT DATA TO USB.**

4



**Press the OK button.**

5



**Press the OK button.**





6



**EXPORT COMPLETED** is displayed when the export finishes successfully.

Press the **OK** button.

If the export failed, an error message is displayed.



XX is an error code.  
01: Insufficient space on the USB drive  
02: The USB drive is write-protected.

After the export has finished, the panel display returns to the previous screen.

7



### Check remaining media length

#### During printing

1



Press the **MENU** button.

2



Press the **Down** button to select **REMAINING MEDIA**.

3



Press the **OK** button.

4



Displayed in the unit set in the length unit menu.  
XX: Preset number  
NNNNNN: Media name  
YYYY: Remaining length

## Not during printing

**1** PRINTER READY  
01: PAPER / 1626mm



**2** MENU  
↓WARNING INFO



**3** >INFORMATION  
↓INK INFORMATION



**4** >INFORMATION  
↓REMAINING MEDIA



**5** >REMAINING MEDIA  
YYY.Ym

Displayed in the unit set in the length unit menu.  
YYY.Y: Remaining length

Press the **MENU** button.

Press the **Down** button to select **INFORMATION**, and then press the **OK** button.

Press the **Down** button to select **REMAINING MEDIA**.

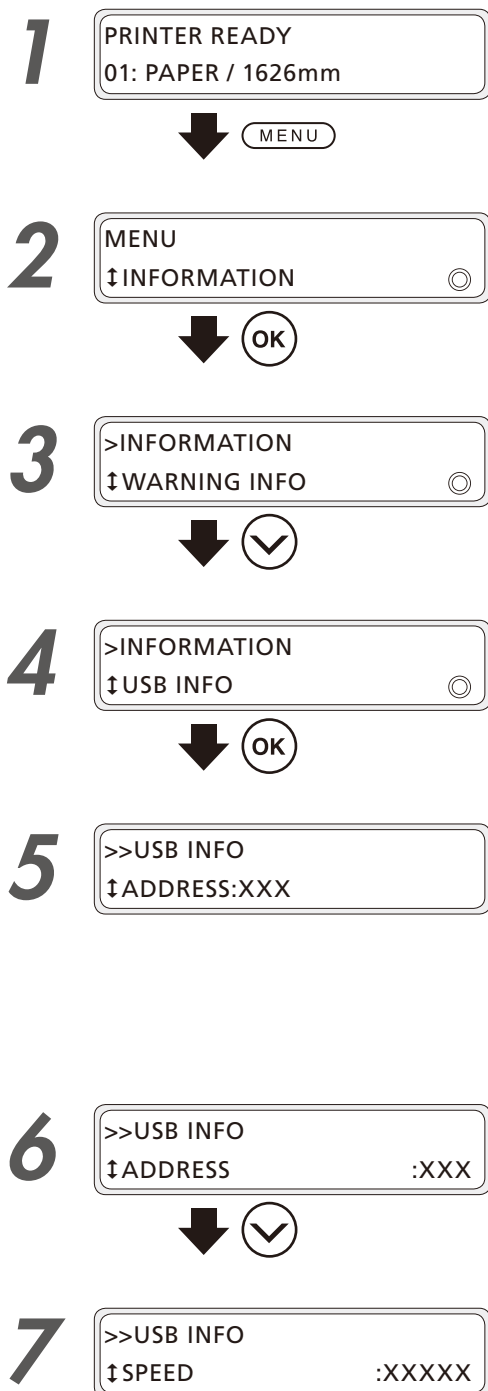
Press the **OK** button.

## Check the USB connection status

### During printing

The USB connection status cannot be checked during printing.  
Check the connection when the printer is not printing.

### Not during printing



Press the **MENU** button.

Press the **Down** button to select **INFORMATION**, and then press the **OK** button.

Press the **Down** button to select **USB INFO**.

Press the **OK** button.

The panel displays the USB address.

If the address is different from **000**, the address is valid.

### Note

- ◆ If the panel displays the USB address as **000**, connect the USB cable connection once again.

Press the **Down** button to select **SPEED**.

The printer checks the connection speed.

The panel displays the USB connection speed.

The panel should display **HS**.

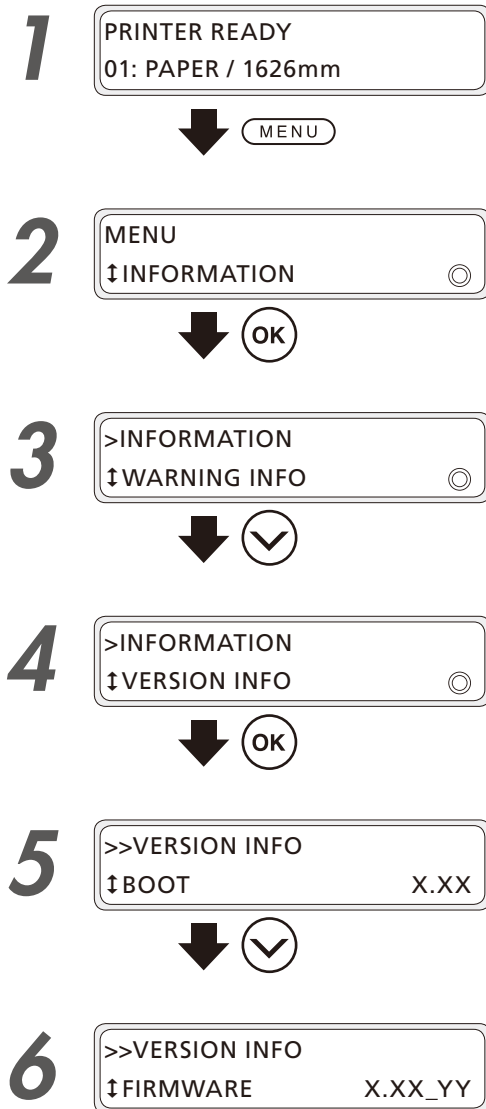
If the panel displays **FS**, the print process will be slower.

## Check the firmware version on the printer

### During printing

The firmware version cannot be checked during printing.  
Check the version when the printer is not printing.

### Not during printing



Press the **MENU** button.

Press the **Down** button to select **INFORMATION**, and then press the **OK** button.

Press the **Down** button to select **VERSION INFO**.

Press the **OK** button.

Press the **Down** button to select **FIRMWARE**.

The panel displays the printer's firmware version.

## Check the print length

### During printing

1 PRINTING...  
STANDARD ND BI



2 MENU  
↓WARNING INFO



3 MENU  
↓TOTAL PRINT LENGTH



4 >TOTAL PRINT LENGTH  
YYYYYm

Displayed in the unit set in the length unit menu.

Press the **MENU** button.

Press the **Down** button to select **TOTAL PRINT LENGTH**.

Press the **OK** button.

### Not during printing

1 PRINTER READY  
01: PAPER / 1626mm



2 MENU  
↓INFORMATION



3 >INFORMATION  
↓WARNING INFO



Press the **MENU** button.

Press the **Down** button to select **INFORMATION**, and then press the **OK** button.

Press the **Down** button to select **TOTAL PRINT LENGTH**.

4



Press the **OK** button.

5



Displayed in the unit set in the length unit menu.

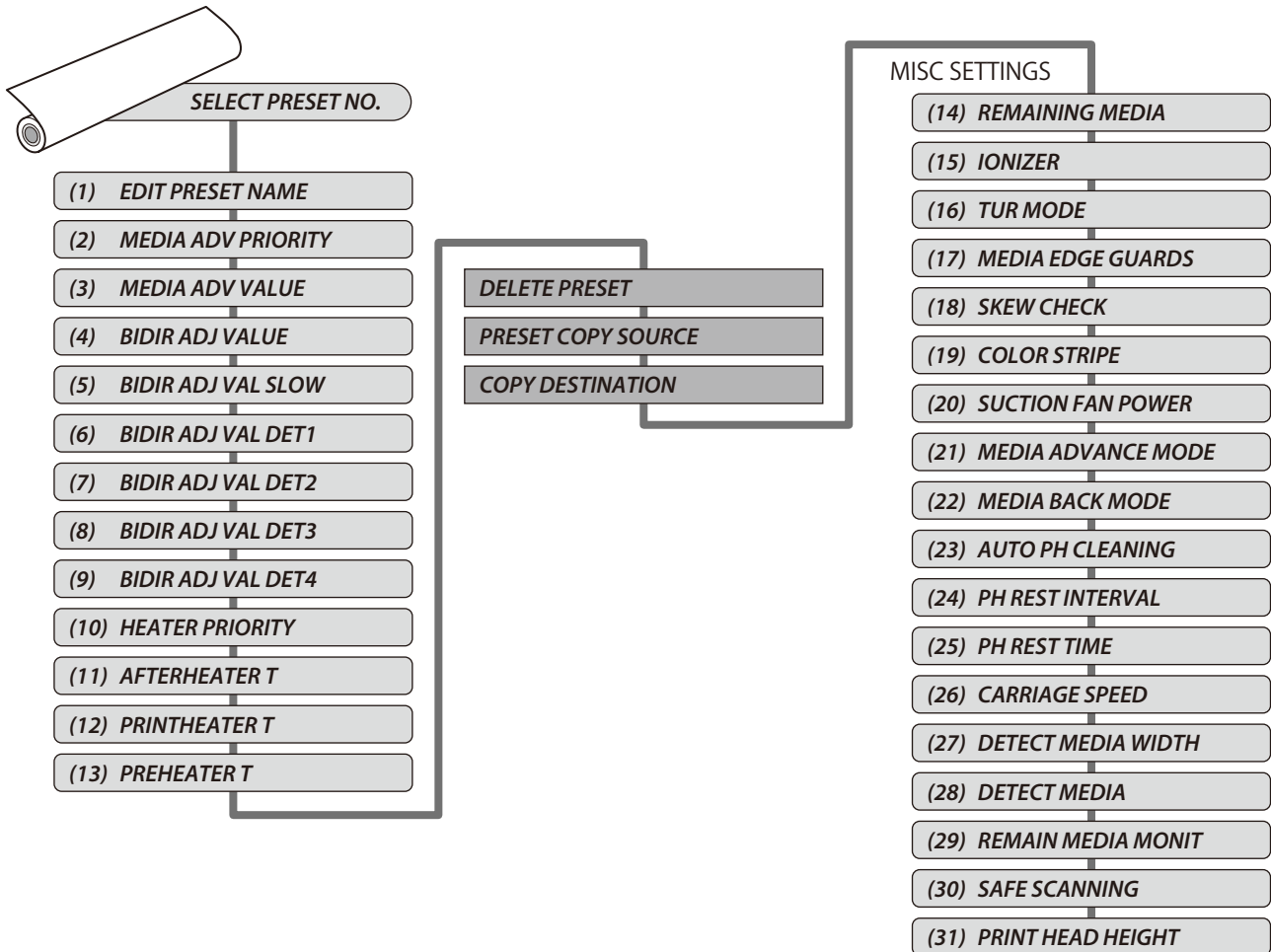
# Handle the media

## Create a new media preset

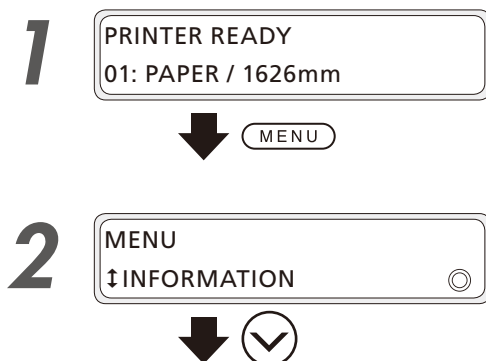
You can register 20 media presets in the printer (No.01 to 20).

The parameters in the preset menu are in the order shown below. You can select the number of the preset to edit with **SELECT PRESET NO.**

You can save the setting values for the 27 parameters ((1) to (27) below) for each media.

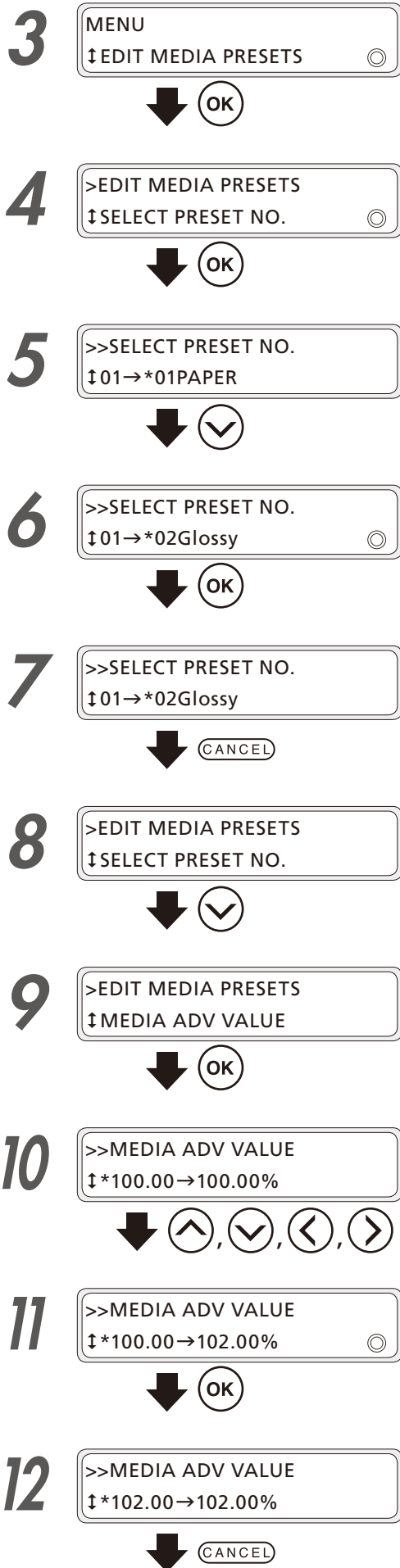


This example explains how to enter a media advance adjustment value for the media preset number 02.



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS.**



Press the **OK** button.

Press the **OK** button.

Press the **Down** button.

Press the **OK** button.

The paper type of the preset changes from 01PAPER to 02Glossy.

Press the **CANCEL** button to exit the **SELECT PRESET NO.** menu.

Press the **Down** button to select **MEDIA ADV VALUE**.

Press the **OK** button.

Press the **Left** and **Right** buttons to select a digit, and press the **Up** and **Down** buttons to set a value.

Enter the media advance adjustment value and press the **OK** button.

Press the **CANCEL** button to exit the **MEDIA ADV VALUE** menu.



>EDIT MEDIA PRESETS  
 †MEDIA ADV VALUE



ONLINE

PRINTER READY  
 01: PAPER / 1626mm

Press the **ONLINE** button.

### Preset media default values

Up to 20 presets (No. 01 to 20) of media can be registered. Media presets can also be deleted or changed. However, preset No. 01 (PAPER) and the media initially set in the printer cannot be deleted.

For the media preset 01 to 05, the initial values are listed below.

Preset No.	01	02	03	04	05
EDIT PRESET NAME	Paper	Glossy	Matte	Banner	BLT_B
MEDIA ADV PRIORITY	DATA SETTING	DATA SETTING	DATA SETTING	DATA SETTING	DATA SETTING
MEDIA ADV VALUE	100.00%	100.00%	100.00%	100.00%	100.00%
BIDIR ADJ VALUE	00	00	00	00	00
BIDIR ADJ VAL SLOW	00	00	00	00	00
BIDIR ADJ VAL DET1	00	00	00	00	00
BIDIR ADJ VAL DET2	00	00	00	00	00
BIDIR ADJ VAL DET3	00	00	00	00	00
BIDIR ADJ VAL DET4	00	00	00	00	00
HEATER PRIORITY	DATA SETTING	DATA SETTING	DATA SETTING	DATA SETTING	DATA SETTING
AFTERHEATER T	** °C	50°C	50°C	50°C	50°C
PRINTHEATER T	** °C	40°C	40°C	40°C	40°C
PREHEATER T	** °C	45°C	45°C	45°C	45°C
MISC SETTINGS					
REMAINING MEDIA	0m	0m	0m	0m	0m
IONIZER	OFF	OFF	OFF	OFF	OFF
TUR MODE	LOOSE	LOOSE	LOOSE	TENSION	TENSION
MEDIA EDGE GUARDS	ON	ON	ON	ON	ON
SKEW CHECK	ON	ON	ON	ON	ON
COLOR STRIPE	OFF	OFF	OFF	OFF	OFF
SUCTION FAN POWER	MEDIUM	MEDIUM	MEDIUM	LOW	LOW
MEDIA ADVANCE MODE	FORWARD ONLY	FORWARD ONLY	FORWARD ONLY	FORWARD ONLY	FORWARD ONLY
MEDIA BACK MODE	ON	ON	ON	ON	ON
AUTO PH CLEANING	BEFORE&AFTER PRINT	BEFORE&AFTER PRINT	BEFORE&AFTER PRINT	BEFORE&AFTER PRINT	BEFORE&AFTER PRINT
PH REST INTERVAL	0 CYCLES	0 CYCLES	0 CYCLES	0 CYCLES	0 CYCLES
PH REST TIME	1 SECONDS	1 SECONDS	1 SECONDS	1 SECONDS	1 SECONDS
CARRIAGE SPEED	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
DETECT MEDIA WIDTH	AUTO	AUTO	AUTO	AUTO	AUTO
DETECT MEDIA	ON	ON	ON	ON	ON
REMAIN MEDIA MONIT	OFF	OFF	OFF	OFF	OFF
SAFE SCANNING	STOP PRINTING	STOP PRINTING	STOP PRINTING	STOP PRINTING	STOP PRINTING
PRINT HEAD HEIGHT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL

\*Modify the media advance adjustment value and the bidirectional adjustment values to fit the media you are using.

## Minimize the right and left margins

### Deactivate the media edge guards

1 PRINTER READY  
01: PAPER / 1626mm



2 MENU  
↓ INFORMATION



3 MENU  
↓ EDIT MEDIA PRESETS



4 >EDIT MEDIA PRESETS  
↓ SELECT PRESET NO.



5 >EDIT MEDIA PRESETS  
↓ MISC SETTINGS



6 >>MISC SETTINGS  
↓ REMAINING MEDIA



7 >>MISC SETTINGS  
↓ MEDIA EDGE GUARDS



8 >>>MEDIA EDGE GUARDS  
↓ ON



9 >>>MEDIA EDGE GUARDS  
↓ OFF



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.

Press the **Down** button to select **MEDIA EDGE GUARDS**.

Press the **OK** button.

Press the **Down** button once.

Press the **OK** button.

10 >>>MEDIA EDGE GUARDS  
↑OFF



11 >>MISC SETTINGS  
↑MEDIA EDGE GUARDS



PRINTER READY  
01: PAPER / 1626mm

Press the **CANCEL** button to exit the **MEDIA EDGE GUARDS** menu.

Press the **ONLINE** button.

### Activate the color stripe

1 PRINTER READY  
01: PAPER / 1626mm



2 MENU  
↑INFORMATION



3 MENU  
↑EDIT MEDIA PRESETS



4 >EDIT MEDIA PRESETS  
↑SELECT PRESET NO.



5 >EDIT MEDIA PRESETS  
↑MISC SETTINGS



6 >>MISC SETTINGS  
↑REMAINING MEDIA



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.

Press the **Down** button to select **COLOR STRIPE**.



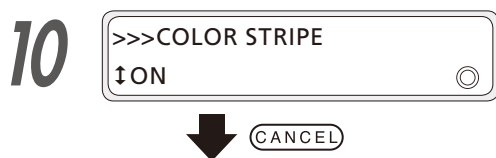
Press the **OK** button.



Press the **Down** button once.



Press the **OK** button.



Press the **CANCEL** button to exit the **COLOR STRIPE** menu.



Press the **ONLINE** button.

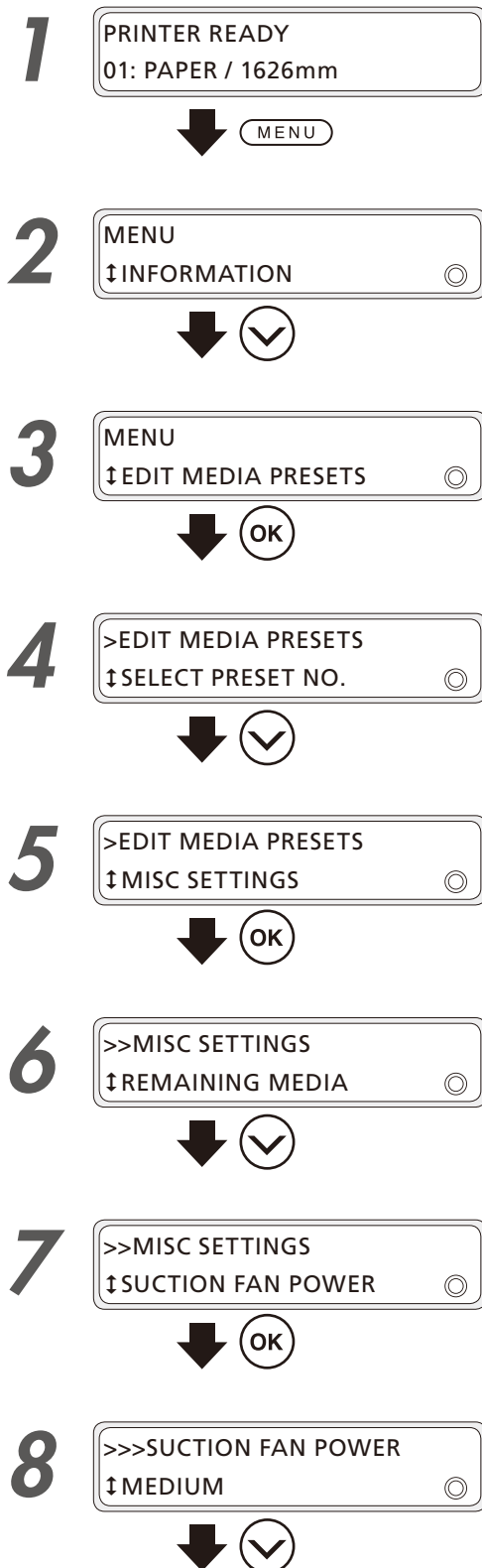


## Prevent the media from sticking and wrinkling

### Decrease the platen suction fan power

The vacuum pressure applied to the media in the printing zone helps to hold the media down on the platen to keep the distance from media to print heads constant.

When the media sticks to the platen, set the vacuum pressure to LOW. The LOW vacuum pressure is also effective when your media is very flexible and wrinkles easily.



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.

Press the **Down** button to select **SUCTION FAN POWER**.

Press the **OK** button.

Press the **Down** button once.

9

>>>SUCTION FAN POWER  
↑LOW



Press the **OK** button.

10

>>>SUCTION FAN POWER  
↑LOW



Press the **CANCEL** button to exit the  
SUCTION FAN POWER menu.

11

>>MISC SETTINGS  
↑SUCTION FAN POWER



Press the **ONLINE** button.

PRINTER READY  
01: PAPER / 1626mm



## Change the media advance mode

Some types of media may tend to adhere to the platen or the paper guide, making it difficult for the media to advance smoothly.

In such cases, change the media advance mode.







The operation required to advance the media smoothly depends on the level of adhesion.

Change the advance mode in accordance with the media being used.

<b>FORWARD ONLY</b>	Advance the media normally.
<b>BACK &amp; FWD LOW</b>	An operation to separate the media from the platen is performed when printing starts and after a pause. Always make the following setting when using this mode. - Set TUR MODE to LOOSE. (See <b>Tension and loose mode setting procedure</b> on  <b>page 58</b> .)
<b>BACK &amp; FWD HIGH</b>	In addition to the operation executed with BACK & FWD LOW, the operation to separate the media from the platen is performed during each scan. Always make the following setting when using this mode. - Set TUR MODE to LOOSE. (See <b>Tension and loose mode setting procedure</b> on  <b>page 58</b> .)
<b>FWD LESS WRINKLES</b>	In this mode, the media is fed 55 cm before the printing starts if 5 minutes or more has passed since the previous printing finishes. The other operations are the same as in normal mode. This mode is used to remove the wrinkles that may appear when using solvent printing coated paper.



◇ The printing speed is slower than normal in the **BACK & FWD LOW** and **BACK & FWD HIGH MAX** modes.

TUR MODE	LOOSE	TENSION
SUCTION FAN POWER	HIGH (recommended)	HIGH (recommended)
MEDIA ADVANCE MODE	FORWARD ONLY BACK & FWD LOW BACK & FWD HIGH FWD LESS WRINKLES	FORWARD ONLY FWD LESS WRINKLES
Target media	Vinyl and coated paper	Banner
Inner take-up 	 Cannot be used	 Can be used
Outer take-up 	 Can be used	 Can be used

**1** PRINTER READY  
01: PAPER / 1626mm



Press the **MENU** button.

**2** MENU  
↓ INFORMATION



Press the **Down** button to select **EDIT MEDIA PRESETS**.

**3** MENU  
↓ EDIT MEDIA PRESETS



Press the **OK** button.

**4** >EDIT MEDIA PRESETS  
↓ SELECT PRESET NO.



Press the **Down** button to select **MISC SETTINGS**.

**5** >EDIT MEDIA PRESETS  
↓ MISC SETTINGS



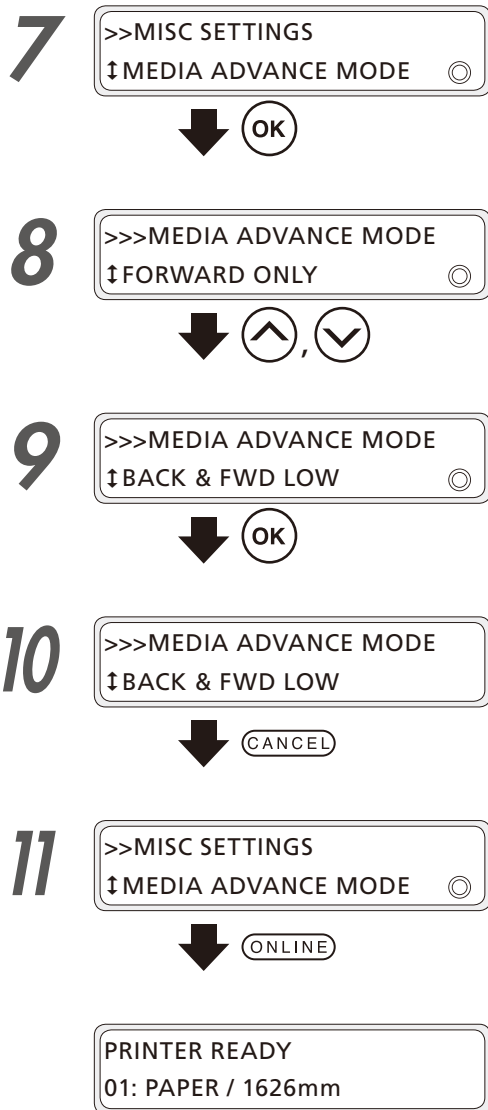
Press the **OK** button.

**6** >>MISC SETTINGS  
↓ REMAINING MEDIA



Press the **Down** button to select **MEDIA ADVANCE MODE**.





Press the **OK** button.

Press the **Up** and **Down** buttons to select an advance mode.

Press the **OK** button.

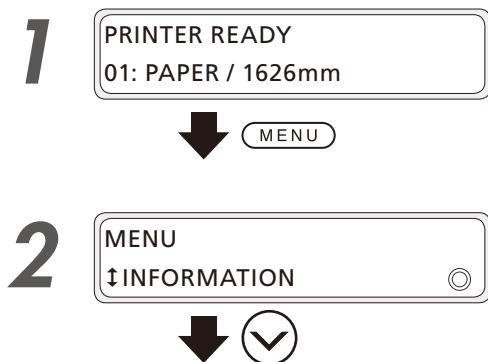
Press the **CANCEL** button to exit the **MEDIA ADVANCE MODE** menu.

Press the **ONLINE** button.

### Prevent the media from lifting up

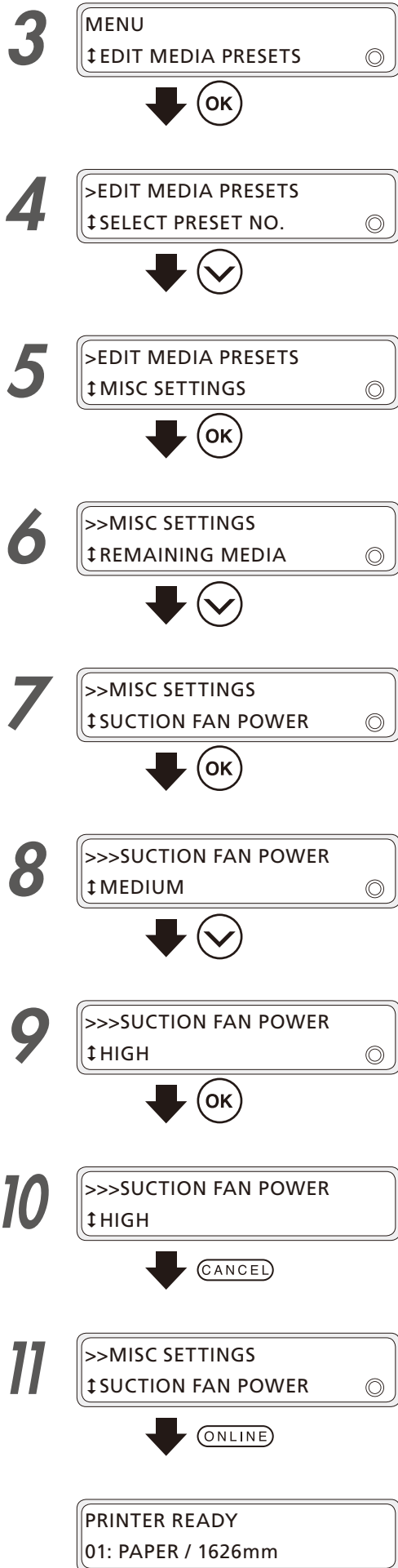
The vacuum pressure applied to the media in the printing zone helps to hold the media down on the platen to keep the distance from media to print heads constant.

When a gap tends to form between the media and the platen, set the vacuum pressure to HIGH.



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.



Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.

Press the **Down** button to select **SUCTION FAN POWER**.

Press the **OK** button.

Press the **Up** and **Down** buttons to select **HIGH**.

Press the **OK** button.

Press the **CANCEL** button to exit the **SUCTION FAN POWER** menu.

Press the **ONLINE** button.

## Print on a thick media

### Change the height of the print heads

Be sure to adjust the height of the print heads when printing on thick media to prevent the print heads from contacting the media.

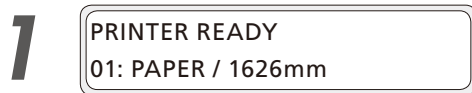
The height of the print heads must be changed depending on the thickness of the media.

Change the print head height depending on the media used with the head up/down mechanism.

Use the following procedure to change the height of the print heads.

- (1) Set the height of the print heads to **HIGH** in the **EDIT MEDIA PRESETS** menu.
- (2) Execute **CHANGE PH HEIGHT** in the **PH MAINTENANCE** menu.

#### (1) Change the print heads height setting



Press the **MENU** button.



Press the **Down** button to select **EDIT MEDIA PRESETS**.



Press the **OK** button.



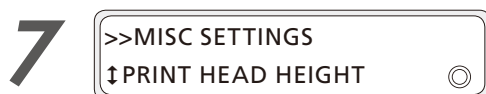
Press the **Down** button to select **MISC SETTINGS**.



Press the **OK** button.



Press the **Down** button to select **PRINT HEAD HEIGHT**.



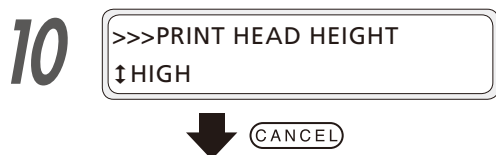
Press the **OK** button.



Press the **Down** button once.



Press the **OK** button.



Press the **CANCEL** button.

The printer exits the setting screen for print head height.



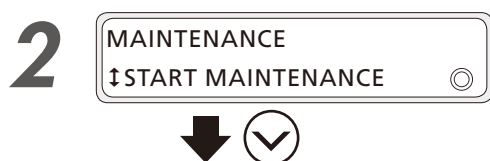
Press the **ONLINE** button.



## (2) Change the height of the print heads



Press the **MAINTENANCE** button.



Press the **Down** button to select **PH MAINTENANCE**.



Press the **OK** button.



Press the **Down** button to select **CHANGE PH HEIGHT**.

5

>PH MAINTENANCE  
↓CHANGE PH HEIGHT



Press the OK button.

6

>>CHANGE PH HEIGHT  
↓OK?



Press the OK button.

CARRIAGE IS MOVING  
PLEASE WAIT

↓ Carriage stops moving.

7

(When the media is installed)  
- The height of the print heads is set to **NORMAL** in the media preset menu.

OPEN COVER AND SET  
PH HEIGHT TO NORMAL

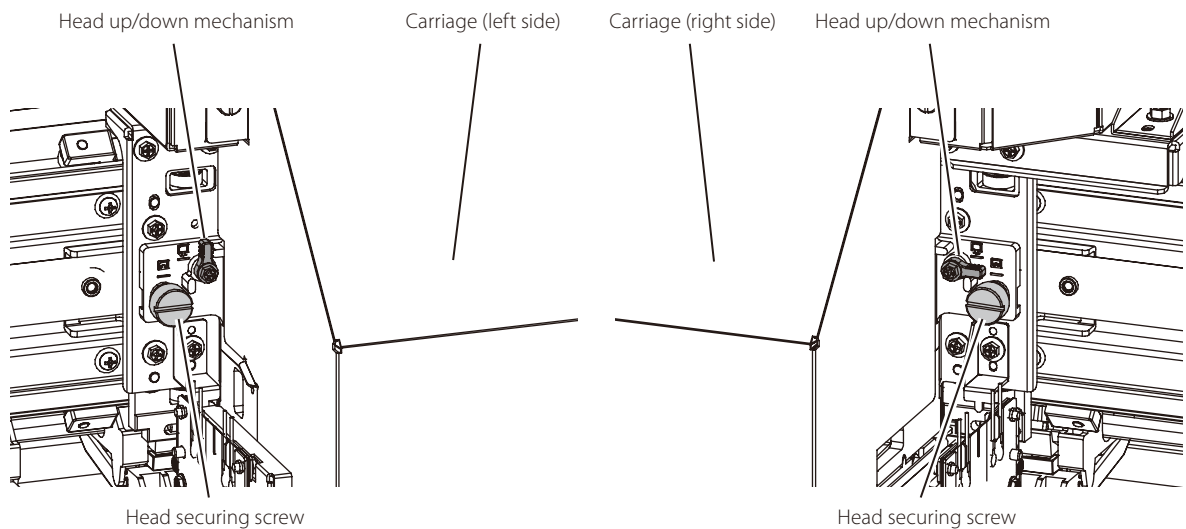
- The height of the print heads is set to **HIGH** in the media preset menu.

OPEN COVER AND SET  
PH HEIGHT TO HIGH

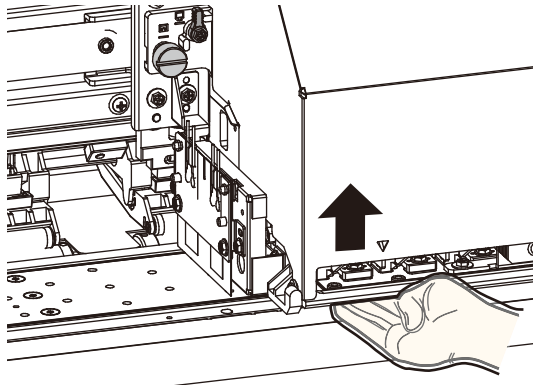
(When no media is installed)

OPEN COVER AND  
CHANGE PH HEIGHT

Open the front cover and the maintenance area cover and loosen the two head securing screws.



8



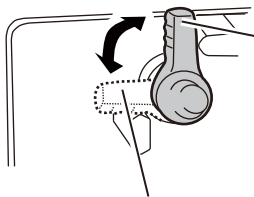
While raising the front of the carriage, change the position of the left head up/down mechanism.



**TIP**

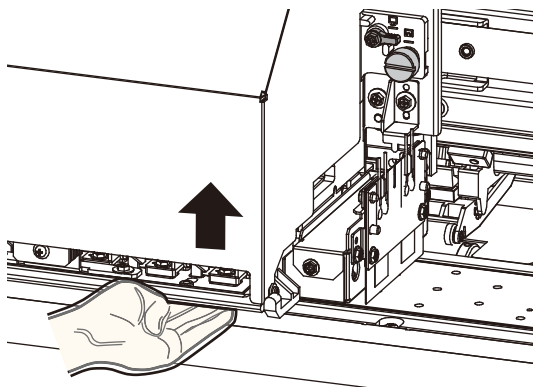
◇ We recommend wearing glove during this operation to keep your hands clean.

Head up/down mechanism positions



Normally the mechanism is set to the up position.  
(For thin or normal thickness media)

The carriage moves to a higher position when the mechanism is set to the left.  
(For thick media)



Next, while raising the front of the carriage, change the position of the right head up/down mechanism.



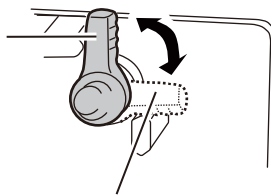
**TIP**

◇ The carriage position is 0.5 mm higher when both the right and left head up/down mechanisms are set to the horizontal position.

Generally, Normal is used for glossy and matte vinyl chloride media, and High is used for tarpaulin and FF media. If the media thickness exceeds 0.5 mm, High should be used regardless of the media type. Use also High even with thin media if it is severely wrinkled or contains irregularities that may touch the print head.

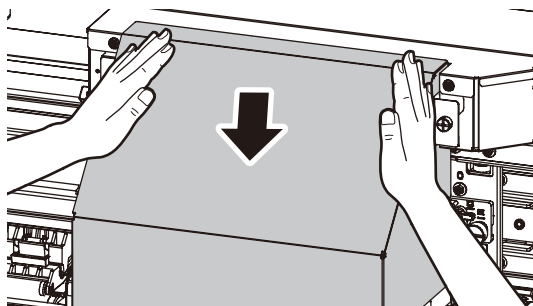
Head up/down mechanism positions

Normally the mechanism is set to the up position.  
(For thin or normal thickness media)



The carriage moves to a higher position when the mechanism is set to the right.  
(For thick media)

9



After changing the position of the head up/down mechanism, push lightly the carriage downward with your hands.



**Note**

◆ This operation is required to make sure the height of print heads has been changed correctly.

# 10

## 11

AFTER CHANGING PH HEIGHT, CLOSE COVER



CARRIAGE IS MOVING  
PLEASE WAIT



Carriage stops moving.

## 12

ENTER PH HEIGHT  
↓NORMAL



## 13

ENTER PH HEIGHT  
↓HIGH



## 14

PH HEIGHT:HIGH  
OK?



## 15

>PH MAINTENANCE  
↓ADJUST PH HEIGHT

Tighten the two securing screws.

### Note

- ◆ Securely tighten the head securing screws using a flathead screwdriver.  
If the head securing screws become loose, the print heads may incline to the right or left, which may affect the print quality.

Close the maintenance area cover and the front cover.

### Notes

- ◆ Do not move the head up/down mechanism with the head securing screws tightened. The head up/down mechanism may break.
- ◆ After changing the print head height, bidirectional printing may be slightly misaligned. In this case, adjust bidirectional print positions with **BIDIR POSITION** in the **ADJUST** menu.
- ◆ As the gap between the side plate of the printer and the carriage is narrow, if it is hard to reach the head up/down mechanism and the head securing screws, move the carriage to the right (or the left) manually.
- ◆ Confirm that the right and left head securing screws are tightened. If the carriage moves with the head securing screws loosened, they may strike the media or edge guards, causing poor image quality and damage to the printer.
- ◆ Always operate the two head up/down mechanisms at the same time and make sure that they are set to the same position.
- ◆ During adjustment of the head height, a warning beep will be issued.

## Suspend printing when media wrinkles are detected

To prevent the printouts to be soiled due to the print heads touching the media, this function can suspend printing when contact between the print heads and the media is detected. Select the mode according to the characteristics of the media used.

<b>STOP PRINTING</b> (default setting)	Printing is stopped immediately if a contact between the print heads and the media is detected. The printing interruption is notified by a warning sound and a message displayed on the panel. Printing cannot be resumed after it has been stopped, so it is required to perform printing again after reloading the media.
<b>SUSPEND PRINTING</b>	Printing is suspended temporarily and the print heads are capped if a contact between the print heads and the media is detected. The printing temporary suspension is notified by a warning sound and a message displayed on the panel. Printing can be resumed after checking the media conditions and removing the wrinkles, if any.
<b>SUSPEND&amp;WARNING</b>	Printing is suspended temporarily and the print heads are capped if five contacts between the media and the print heads are detected consecutively. Any contact detected between the media and the print heads is notified by a warning sound and a message displayed on the panel. Printing suspension is also notified by a warning sound and a message displayed on the panel. Printing can be resumed after checking the media conditions and removing the wrinkles, if any.
<b>WARNING ONLY</b>	Printing continues even when contacts between the media and the print heads are detected. However, any contact detected between the media and the print heads is notified by a warning sound and a message displayed on the panel. The warning sound stops and the panel message disappears when contact is not detected anymore. Printing can be suspended manually and resumed after all wrinkles have been removed.

### Notes

Pay attention to the following when Safe Scanning is set to **STOP PRINTING**.

- ◆ When the printing has been stopped, load the media again without delay to prevent the print heads from drying.

Pay attention to the following when Safe Scanning is set to **WARNING ONLY**.

- ◆ The print heads may be damaged if printing is performed during a long time while the warning indicating that the print heads contact the media is emitted.

Pay attention to the following when Safe Scanning is set to **SUSPEND PRINTING** or **SUSPEND&WARNING**.

- ◆ Make sure that all the wrinkles have been removed when resuming the printing after it has been suspended.
- ◆ If missing dots appear on the printout after resuming the printing, pause printing and perform PH Recovery.

1

PRINTER READY  
01: PAPER / 1626mm



MENU

Press the **MENU** button.





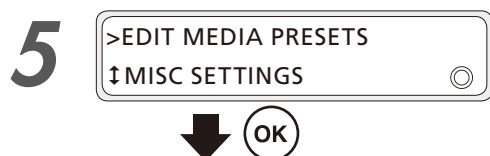
Press the **Down** button to select **EDIT MEDIA PRESETS**.



Press the **OK** button.



Press the **Down** button to select **MISC SETTINGS**.



Press the **OK** button.



Press the **Down** button to select **SAFE SCANNING**.



Press the **OK** button.



Press the **UP** button once.



Press the **OK** button.

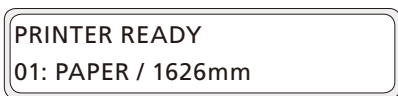


Press the **CANCEL** button to exit the **SAFE SCANNING** menu.

11



ONLINE



Press the **ONLINE** button.

The printer exits the safe scanning setting screen.

### Prevent the ink from spreading over the printout (when an option is installed)



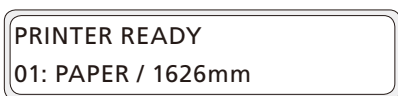
- ◇ Turning the ionizer on may solve the problem in the following situations.
  - Ink dribbles on the media when using a type of media that easily generates static electricity.
  - The printout is blurred or ink sprayed over white portions of the media due to the media being charged with static electricity.

If the ink tends to spread over the printout, set the ionizer to ON.

Generally do not let the ionizer setting to ON but change the setting depending on the characteristics of the media.

After setting the ionizer to ON, the blue LED for automatic print adjustment lights up during printing.

1



MENU

Press the **MENU** button.

2



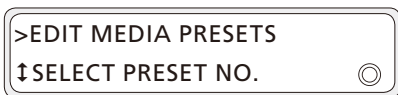
Press the **Down** button to select **EDIT MEDIA PRESETS**.

3



Press the **OK** button.

4

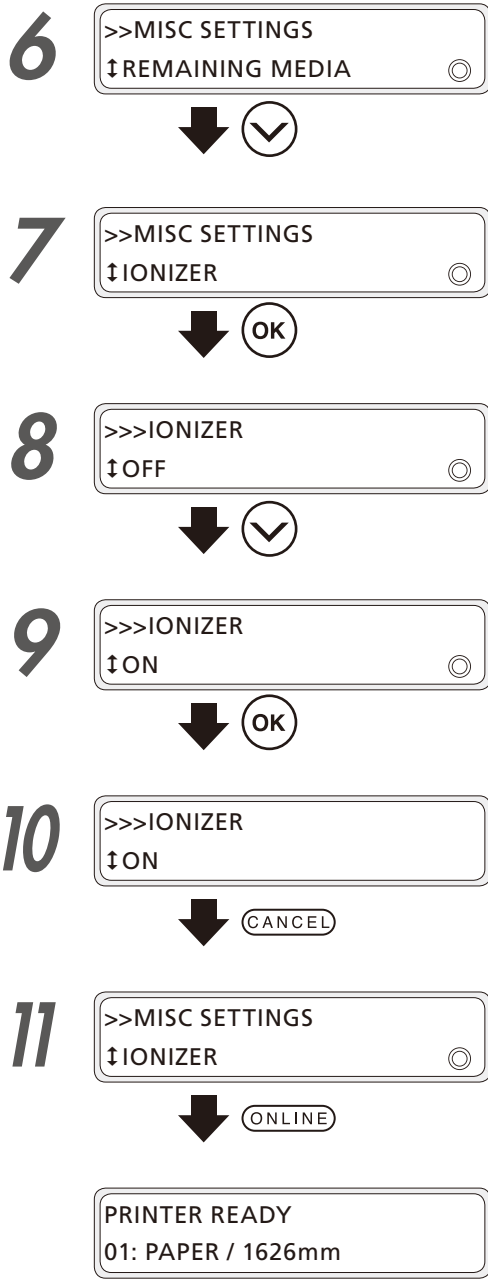


Press the **Down** button to select **MISC SETTINGS**.

5



Press the **OK** button.



Press the **Down** button to select **IONIZER**.

Press the **OK** button.

Press the **Up** and **Down** buttons to select **ON**.

Press the **OK** button.

Press the **CANCEL** button to exit the **IONIZER** menu.

Press the **ONLINE** button.

## Change the automatic cleaning timing

To ensure the print heads' good condition, the printer performs the automatic cleaning. The cleaning mode can be specified for each media preset. Select the cleaning mode depending on the media characteristics.

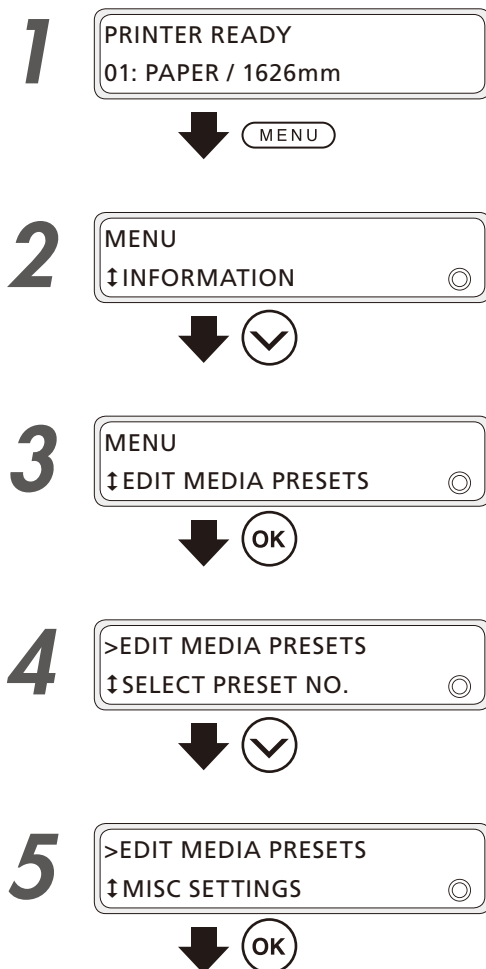
<b>BEFORE&amp;AFTER PRINT</b>	Based on the previous printing operations, the printer performs the automatic cleaning when starting or when completing the print operation.
<b>BEFORE&amp;DURING PRNT</b>	Based on the previous printing operations, the printer performs the automatic cleaning when starting the print operation or during printing. After cleaning, the printer resumes printing if it was interrupted.
<b>OFF</b>	Automatic cleaning is not performed. Set this mode in the following case. - When printing continuously several data files on media with which differences between printouts will be noticeable if automatic cleaning is performed between two files. If automatic cleaning is set to OFF, determine suitable timing to execute cleaning manually.

### CAUTION

Pay attention to the following when automatic cleaning is set to OFF.

- ◆ Missing dots may appear if the cleaning operation has not been performed for a long time.
- ◆ Manually perform cleaning when the PH RECOVERY RECOMMENDED message is displayed on the panel to prevent the missing dots problem.

The following procedure explains how to set BEFORE&DURING PRNT for automatic cleaning in the media preset No.2.



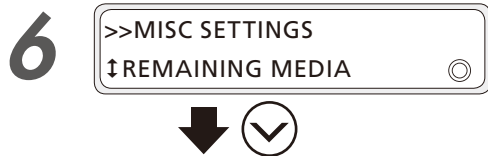
Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.



Press the **Down** button to select **AUTO PH CLEANING**.



Press the **OK** button.



Press the **Up** and **Down** buttons to select **BEFORE&DURING PRNT**.



Press the **OK** button.



Press the **CANCEL** button to exit the **AUTO PH CLEANING** menu.



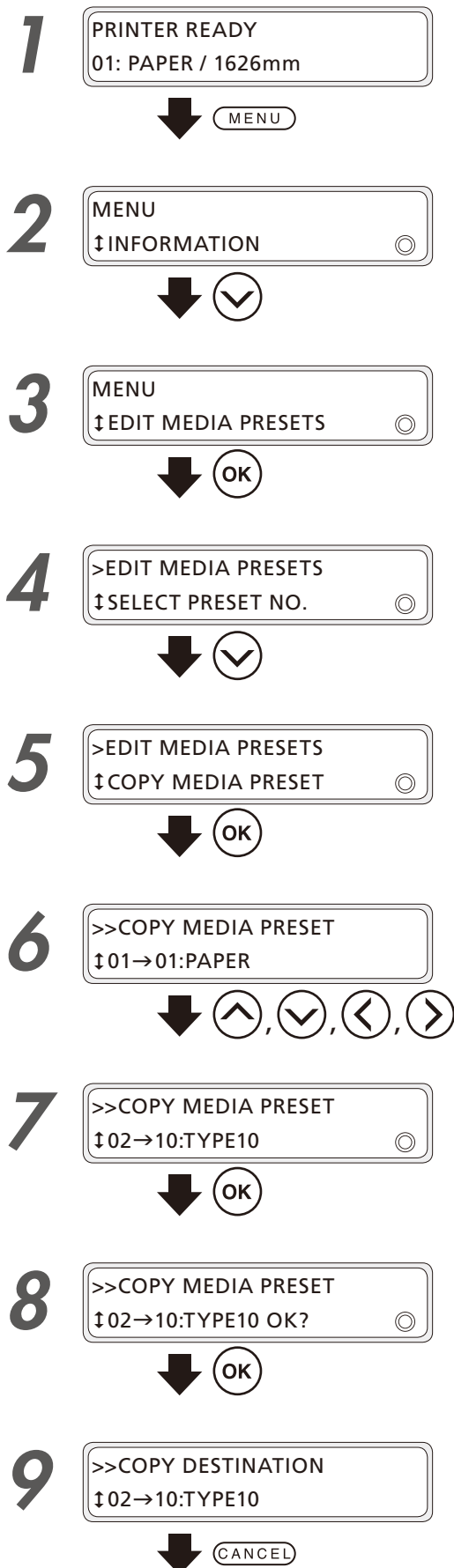
Press the **ONLINE** button.



- Before printing
- Loading the media
- Adjustment
- Maintenance
- Advanced operations
- Troubleshooting
- Menu tree
- Appendix

## Copy a media preset

The following procedure explains how to copy the parameters registered in media preset No. 2 to media preset No. 10.



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

Press the **OK** button.

Press the **Down** button to select **COPY MEDIA PRESET**.

Press the **OK** button.

Press the **Up, Down, Right, and Left** buttons to select a copy source.

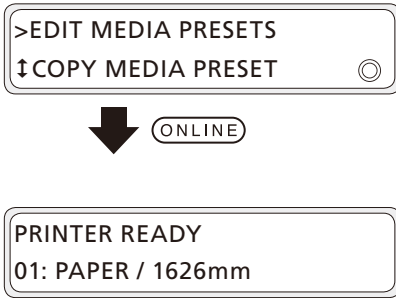
Select the copy source and the copy destination number.

Press the **OK** button.

Press the **OK** button.

Press the **CANCEL** button to exit the **COPY DESTINATION** menu.

10



Press the **ONLINE** button.

### Change the type of the preset media without reloading the media

The following procedure explains how to change from Paper media type in preset No. 1 to Glossy media type in preset No. 2.



The media type parameter (02:Glossy here) is called automatically when starting printing, together with the 24 parameters set for each media preset.

1



Press the **MENU** button.

2



Press the **Down** button to select **CHANGE PRESET**.

3



Press the **OK** button.

4

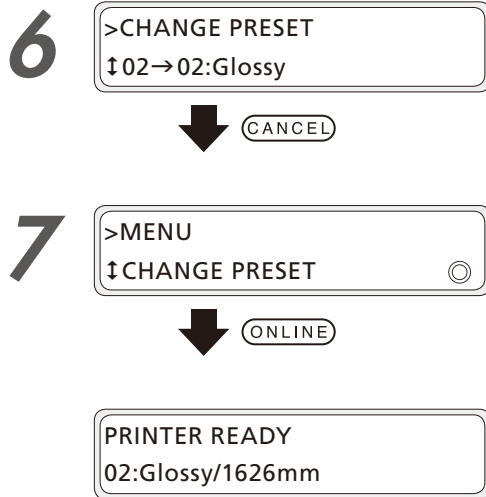


Press the **Up** and **Down** buttons to select the media preset number to set.

5



Press the **OK** button.

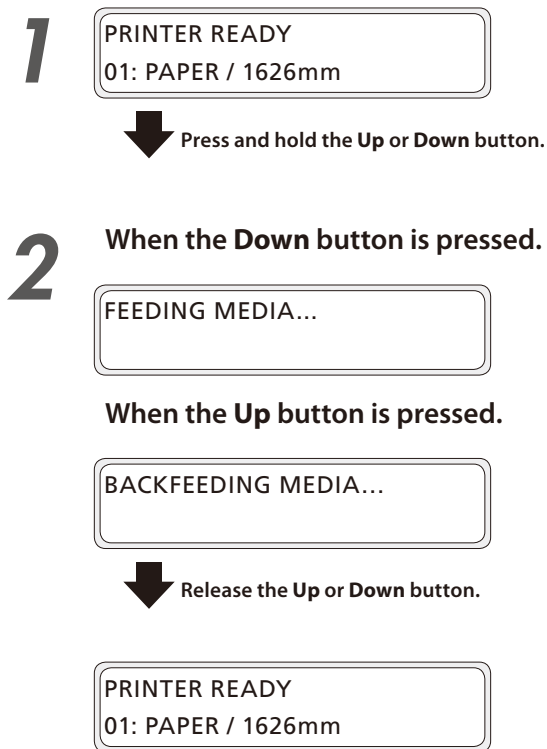


Press the **CANCEL** button to exit the **CHANGE PRESET** menu.

Press the **ONLINE** button.

## Feed or rewind media

Feeding and rewinding operations can be executed in the online state (idle mode).



Press and hold the **Up** or **Down** button.

To feed media, press the **Down** button.

To rewind media, press the **Up** button.

Release the **Up** or **Down** button.

The printer stops feeding or rewinding media, and the display returns to online state.



## Move the print start position

Move the print start position (origin), to start printing on your preferred position.

After printing, rewind the roll, and with this function you can print an image in the blank area.

### CAUTION

- ◆ Complete this operation as quickly as possible. Otherwise the print heads may dry, which may cause ink ejection failure. In such a case perform a cleaning.

**1** BACKFEEDING MEDIA...



**2** PRINTER READY  
01: PAPER / 1626mm



**3** START ORIGIN SETTING  
OK? 




**4** ORIGIN SETTING  
CARRIAGE IS MOVING



**5** SET ORIGIN  
OK? 



### Rewind the media.

See **Feed or rewind media** on  **page 178**.

### CAUTION

- ◆ Rewind the media after the printout has completely dried. If the media is rewound while the printout is not sufficiently dry, the printout may be damaged.

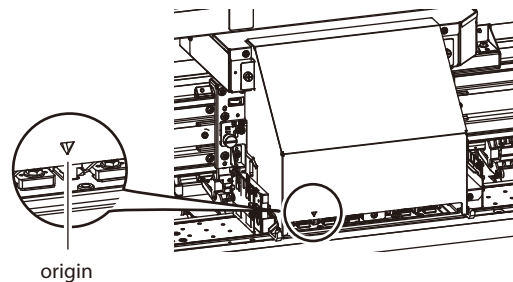
### Press the **Left** button.

### Press the **OK** button.

The carriage moves and the origin setting function is activated.

### Move the carriage with the **Left** or **Right** button to the position to be set as the origin.

Align the  mark at the bottom left of the carriage cover's front panel with the origin of the next printout.



6

SET ORIGIN  
\*OK?



Carriage stops moving.

7


SET ORIGIN  
OK? 






SETTING ORIGIN...  
PLEASE WAIT



PRINTER READY  
01: PAPER / 1626mm 

**Press the OK button to set the origin.**


The carriage returns, and the printer enters online state and becomes ready to print.

During origin setting mode, a  symbol is displayed next to the media width value.

### Exit origin setting mode

To cancel an origin that has been set, reinstall the media, or exit the origin setting mode following the procedure below.

1

PRINTER READY  
01: PAPER / 1626mm 





**Press the Left button when the printer is online in origin setting mode.**

2

CANCEL ORIGIN  
OK? 





**Press the OK button to exit origin setting mode.**

3

PRINTER READY  
01: PAPER / 1626mm

The  symbol disappears.

## Adjust the head margin before printing

Advance or rewind the media during the preheating time before printing to adjust the margin to the previous printout.



Once printing (scan) has started, this function cannot be used until the job has finished.

1

PREHEATING...  
STANDARD ND UNI



ONLINE

Press the **ONLINE** button during the preheating time before printing.

2

PRINTER IN PAUSE  
01: PAPER / 1626mm



...

The printer enters pause mode. Keep the **Down** button pressed.

3

FEEDING MEDIA...



Release the **Down** button.

Release the **Down** button to stop feeding the media.

4

PRINTER IN PAUSE  
01: PAPER / 1626mm



ONLINE

Press the **ONLINE** button to resume printing.

5

PREHEATING...  
STANDARD ND UNI



Press the **Up** button to rewind the media.

## Fix the print position (margin size)

To secure the print position (margin size) from the media edges, even if the media has skewed, change the SKEW CHECK setting from ON to ON, FIXED MARGIN.

1 PRINTER READY  
01: PAPER / 1626mm



Press the **MENU** button.

2 MENU  
↓ INFORMATION



Press the **Down** button to select **EDIT MEDIA PRESETS**.

3 MENU  
↓ EDIT MEDIA PRESETS



Press the **OK** button.

4 >EDIT MEDIA PRESETS  
↓ SELECT PRESET NO.



Press the **Down** button to select **MISC SETTINGS**.

5 >EDIT MEDIA PRESETS  
↓ MISC SETTINGS



Press the **OK** button.

6 >>MISC SETTINGS  
↓ REMAINING MEDIA



Press the **Down** button to select **SKEW CHECK**.

7 >>MISC SETTINGS  
↓ SKEW CHECK



Press the **OK** button.

8 >>>SKEW CHECK  
↓ \*ON



Press the **Up** and **Down** buttons to select **BEFORE&DURING PRNT**.



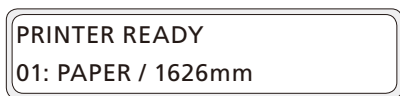
Press the **OK** button.



Press the **CANCEL** button to exit the **SKEW CHECK** menu.



Press the **ONLINE** button.



## Difference in the print position (margin size) between the SKEW CHECK ON and ON, FIXED MARGIN settings.

Depending of the media used, even if it is installed straight, it may become skewed because it has shifted on the roll or when being fed into the printer.

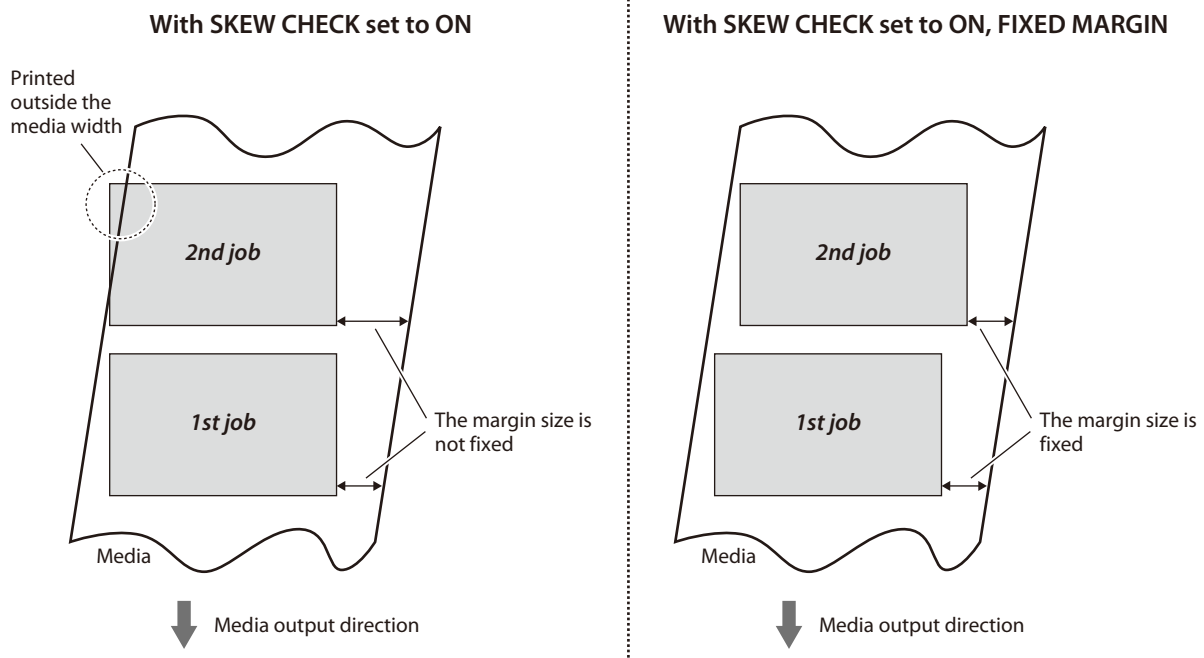
Usually the image is not printed outside the media width, but this may happen when the image width is almost the same as the media width (with **SKEW CHECK** set to **ON**).

To prevent that, the media edges are detected before the print starts and a margin of a certain size is secured (with **SKEW CHECK** set to **ON, FIXED MARGIN**).

This function is called **fixed margin**.

### Note

- ◆ With the fixed margin mode, a margin of a certain size is secured, but on the other hand printed images with the same size but of a different job may not be aligned when printed consecutively.



- ◇ With the skew check function, an error is displayed when the media has greatly skewed from a reference position. The judgment criteria are the same for the **ON** and the **ON, FIXED MARGIN** settings.

## Remove some media wrinkles during printing

If the media wrinkles during printing (online mode), put the printer in pause mode to be able to release the grip.

### CAUTION

- ◆ Some wrinkles can be removed by releasing the the pressure roller (lifting the lever) but this may also decrease the print quality as the media may slip.

**1** PRINTING...  
STANDARD ND UNI



ONLINE

Press the **ONLINE** button during the preheating time before printing.

**2** PRINTER IN PAUSE  
01: PAPER / 1626mm



Lift the pressure roller up/down lever.

After entering pause mode, lift the pressure roller up/down lever.



When lifting the lever, place your hand on the media to prevent it from slipping.

**3** LOWER THE LEVER



Lower the pressure roller up/down lever.

Lower the pressure roller up/down lever and the panel returns to the pause mode display.

**4** PRINTER IN PAUSE  
01: PAPER / 1626mm



ONLINE

Press the **ONLINE** button to resume printing.

**5** PRINTING...  
STANDARD ND UNI

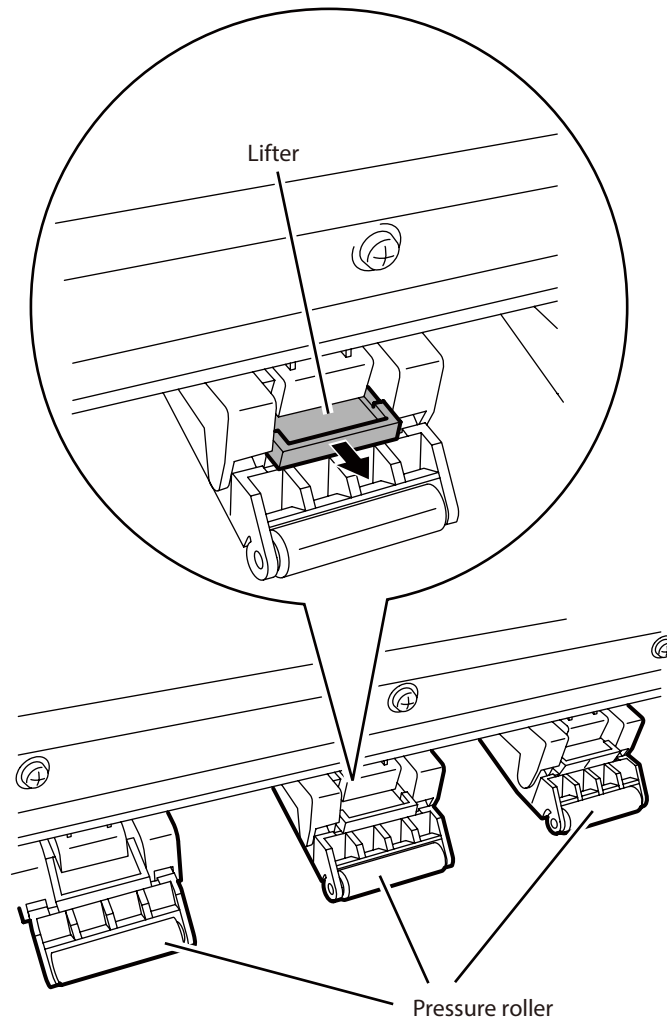
# How to use the lifter

Unless the media is under the entire pressure roller, wrinkles and skews may occur.

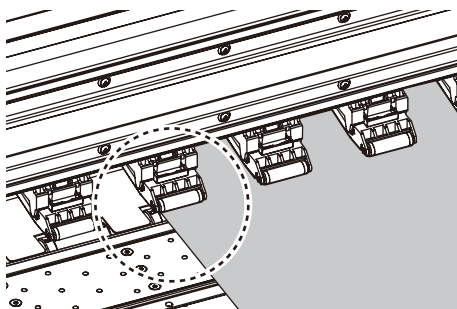
In such case, pull toward you the lifter at the upper side of pressure roller to release the pressure force of pressure roller.

## Notes

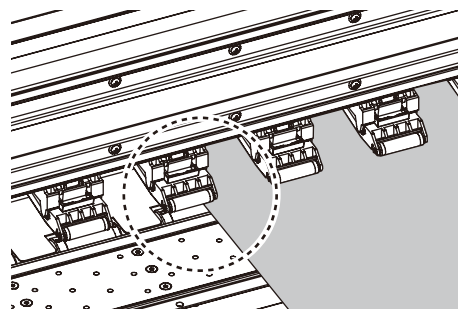
- ◆ Wrinkles may be eliminated in all medias.



Example of when it is not necessary to pull the lifter toward you (The pressure of pressure roller is needed.)



Example of when pulling the lifter toward you (Releasing the pressure force of pressure roller is needed.)





# To change the printer's basic settings

## Turn the warning beep off

Normally, the printer emits a warning beep when an error occurs. However, the warning beep can be turned off for the three following cases.

- When the print heads are not covered by the caps (during daily maintenance operations, print head height adjustment, or when a media jam occurs)
- When a media take-up error occurs
- When the ink runs out or ink cartridges are not installed
- When the front cover is open
- When media wrinkles are detected with safe scanning

1 PRINTER READY  
01: PAPER / 1626mm



Press the **MENU** button.

2 MENU  
↓ INFORMATION



Press the **Down** button to select **SETTING**.

3 MENU  
↓ SETTING



Press the **OK** button.

4 >SETTING  
↓ SYSTEM



Press the **OK** button.

5 >>SYSTEM  
↓ SUBSCRIPTION CODE

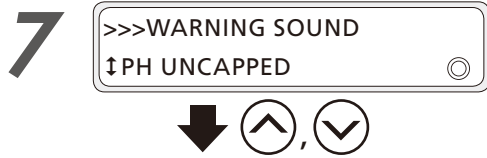


Press the **Down** button to select **WARNING SOUND**.

6 >>SYSTEM  
↓ WARNING SOUND



Press the **OK** button.



Press the **Up** and **Down** buttons to select the type of the warning sound to change.



Press the **OK** button.



Press the **Down** button to select **OFF**.



Press the **OK** button.



# Controlling the media advance adjustment value

## Change the media advance adjustment value during printing

**1** PRINTING...  
STANDARD ND BI

↓ ↑, ↓

Press the **Up** or **Down** button while **PRINTING...** is displayed.

**2** FINE ADJ VAL:099.80%  
↓099.80%

Adjustment value when printing starts

Increase or decrease the value by 0.01% with the Up and Down buttons.  
(Setting range: 97.00% to 106.00%)

Press the **Up** and **Down** buttons to modify the adjustment value.

The changed value is applied immediately after change.  
The adjustment value displayed when the print started does not change until the print finishes.

↓ ↑, ↓

**3** FINE ADJ VAL:099.80%  
↓099.96%

↓ three seconds

The changed value is registered as the adjustment value and will be applied for the next print.  
The panel display of the adjustment value during printing returns automatically to the previous screen if no buttons are pressed for three seconds.

PRINTING...  
STANDARD ND BI

# Print conditions

Twelve print modes are available on the printer, including different density levels for the same resolution. You can also select two speeds for the carriage in each of the 13 print modes. Select print conditions to achieve the productivity and quality that match the media and the application.

Generally use the printer in Standard print mode with Standard carriage speed. Use the other mode to prioritize productivity or quality.



## If you have changed the print mode...

- ◇ Depending on the media, the media advance adjustment value may change for each mode.
  - ◇ Determine the media advance adjustment value manually if banding or other problems appear on the printout.
- (📖 page 59)

## Print modes

Set the print mode for your desired resolution, number of passes, and density. The lower the resolution and number of passes, the higher the productivity. Increasing the resolution and number of passes the enhances the print quality reduces the visible grains.

Print mode	Resolution	Number of passes	Maximum density	Description
FAST PRODUCTION	360 dpi x 360 dpi x DDP	4	1	Mode that prioritizes productivity over quality.
PRODUCTION	360 dpi x 360 dpi x DDP	6	1	Mode that slightly prioritizes productivity compared to standard mode.
PRODUCTION / HIGH DENSITY	360 dpi x 360 dpi x DDP	6	1.5	The high-density mode that prioritizes productivity. The ink may takes time to dry as a large quantity of ink is used. Consequently do not use the TUR unit with this mode.
STANDARD	540 dpi x 360 dpi x DDP	6	1	This is the standard mode. Generally use this mode.
STANDARD / HIGH DENSITY	540 dpi x 360 dpi x DDP	6	2	Productivity is more prioritized in this mode than in high-density high quality mode. The ink may takes time to dry as a large quantity of ink is used. Consequently do not use the TUR unit with this mode.
QUALITY	540 dpi x 540 dpi x DDP	9	1.1	Mode that slightly prioritizes quality compared to standard mode.
QUALITY / HIGH DENSITY	540 dpi x 540 dpi x DDP	9	1.9	Productivity is slightly more prioritized in this mode than in high-density high quality mode. The ink may takes time to dry as a large quantity of ink is used. Consequently do not use the TUR unit with this mode.
HIGH QUALITY	720 dpi x 720 dpi	12	1	Mode with higher quality than standard mode.
HIGH QUALITY / HIGH DENSITY	720 dpi x 720 dpi	12	2	Generally use this mode to print in high density.
MAX QUALITY	900 dpi x 900 dpi	15	1.6	Mode with higher resolution than high quality mode.
MAX QUALITY / HIGH DENSITY	900 dpi x 900 dpi	15	3.1	Use this mode when ink does not dry well in high quality / high density mode.
FINE DETATIL	1080 dpi x 1080 dpi	18	2.2	Mode with the highest resolution.
FINE DETATIL HD	1080 dpi x 1080 dpi	18	4.5	Use this mode when ink does not dry well in high quality / high density mode.

\*DDP: Means Dynamic Dot Printing which is a technology used to print with dots of different sizes. Small dots are used to reduce the visible grains and large dots are used to increase the density.

## ! Notes

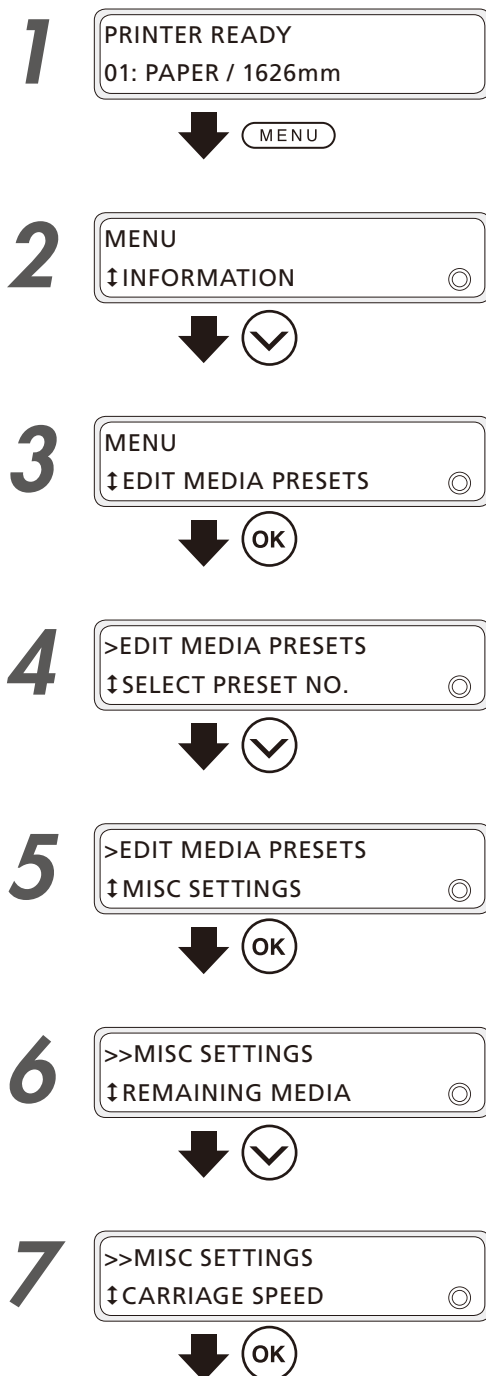
- ◆ The recommended modes are STANDARD to print in normal density and HIGH QUALITY / HIGH DENSITY to print in high density.  
Use the other modes according to your needs for productivity and quality.
- ◆ Printing in HIGH DENSITY uses large quantity of ink. Sometimes it may cause the ink to blur, ink drying problems, or take-up problems.  
In such cases, reduce the printing speed.

### Set the carriage speed

You can set the carriage to NORMAL or SLOW.

Normally, set the speed to NORMAL. Select SLOW to obtain a better resolution and a more precise print.

(The carriage speed cannot be changed from the RIP software. Use panel operations or CP\_Manager)



Press the **MENU** button.

Press the **Down** button to select **EDIT MEDIA PRESETS**.

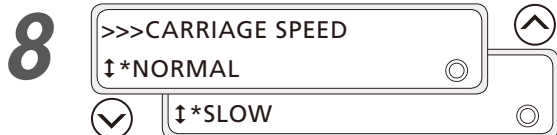
Press the **OK** button.

Press the **Down** button to select **MISC SETTINGS**.

Press the **OK** button.

Press the **Down** button to select **CARRIAGE SPEED**.

Press the **OK** button.



Press the **Up** and **Down** buttons to select **NORMAL** or **SLOW**.



Press the **OK** button.



SLOW is set in the example on the left.



## Print speed

The print speed depends on the print mode and the carriage speed. Print speeds are shown in the table below. The real print speed may be slower than the indicated values depending on factors such as the media width.

Print speeds of the IP-5630 \*1

Print mode	Carriage speed	
	NORMAL	SLOW
FAST PRODUCTION	22.9 m <sup>2</sup> /h	14.4 m <sup>2</sup> /h
PRODUCTION	15.0 m <sup>2</sup> /h	9.4 m <sup>2</sup> /h
PRODUCTION / HIGH DENSITY *2		
STANDARD	10.9 m <sup>2</sup> /h	6.5 m <sup>2</sup> /h
STANDARD / HIGH DENSITY *2		
QUALITY	7.2 m <sup>2</sup> /h	4.4 m <sup>2</sup> /h
QUALITY / HIGH DENSITY *2		
HIGH QUALITY	4.2 m <sup>2</sup> /h	2.5 m <sup>2</sup> /h
HIGH QUALITY / HIGH DENSITY		
MAX QUALITY	2.7 m <sup>2</sup> /h	1.6 m <sup>2</sup> /h
MAX QUALITY / HIGH DENSITY		
FINE DETATIL	1.9 m <sup>2</sup> /h	1.2 m <sup>2</sup> /h
FINE DETATIL HD		

\*1 The indicated speed values are when printing full width on a media of 1626 mm (64 inches) in width.

Print speeds of the IP-5530 \*2

Print mode	Carriage speed	
	NORMAL	SLOW
FAST PRODUCTION	21.3 m <sup>2</sup> /h	13.5 m <sup>2</sup> /h
PRODUCTION	14.1 m <sup>2</sup> /h	8.9 m <sup>2</sup> /h
PRODUCTION / HIGH DENSITY *2		
STANDARD	10.2 m <sup>2</sup> /h	6.2 m <sup>2</sup> /h
STANDARD / HIGH DENSITY *2		
QUALITY	6.8 m <sup>2</sup> /h	4.1 m <sup>2</sup> /h
QUALITY / HIGH DENSITY *2		
HIGH QUALITY	4.0 m <sup>2</sup> /h	2.3 m <sup>2</sup> /h
HIGH QUALITY / HIGH DENSITY		
MAX QUALITY	2.6 m <sup>2</sup> /h	1.6 m <sup>2</sup> /h
MAX QUALITY / HIGH DENSITY		
FINE DETATIL	1.8 m <sup>2</sup> /h	1.1 m <sup>2</sup> /h
FINE DETATIL HD		

\*2 The indicated speed values are when printing full width on a media of 1372 mm (54 inches) in width.

# Adjust the heaters temperatures

Each heater initial value is set in the media preset menu. These values are automatically set for the heaters temperatures.

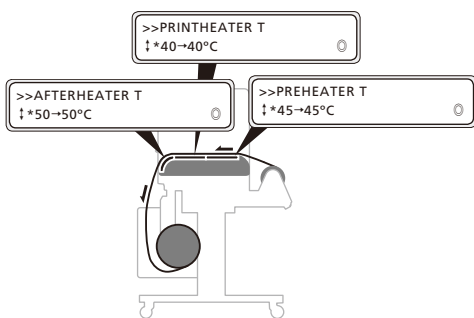
Therefore, normally the heater control menu is not required.

The heater control menu is used to:

- Complete the temperature fine adjustment during the print operation; or
- Confirm the current heater temperature

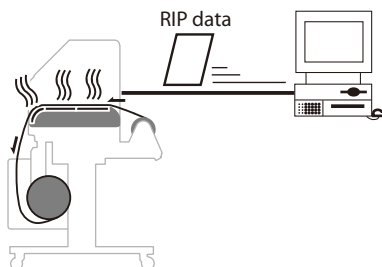
## Procedure to set the heaters temperatures

(1) The heaters are in standby at the initial temperature registered with the media used.



When a media type is selected after installing the media, initial temperature values of each heater for the selected media type are displayed on the menu.

(2) Heating starts after receiving the data from the RIP software.

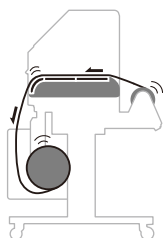


When the heaters temperatures are set with the print and job data from the RIP software, the temperatures on the heater control menu are overwritten by the temperatures from the RIP.



- ◇ To use the initial temperatures set on the operation panel rather than the temperature set with the RIP, set HEATER PRIORITY in the media preset menu to PANEL SETTING.

(3) When the heaters temperatures have almost reached the set temperatures, the print operation starts.

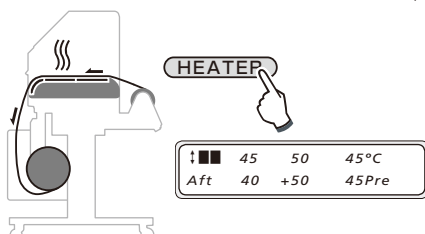


When the current temperatures of the afterheater, printhead, and preheater reach a temperature of 1°C lower than the set temperature, the printer starts printing.



- ◇ The heaters maximum set temperatures are as follows.  
Afterheater: 55°C  
Printhead: 55°C  
Preheater: 55°C
- ◇ Even after the print is completed, the temperatures changed during this procedure remain as the heaters setup temperatures, until the media is installed again or the printer is turned off.  
However, the heater temperature settings in the media preset menu are not changed.

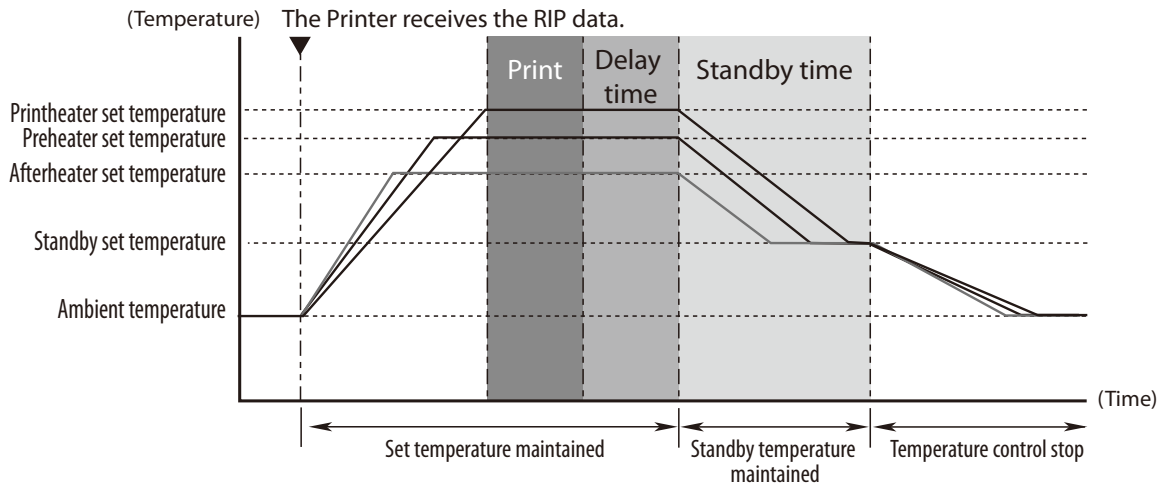
(4) Changing the heaters temperatures during the print operation.



During the print operation the heaters temperatures may be changed by specifying set temperatures in the heater control menu.



# The heater temperature control system for printing



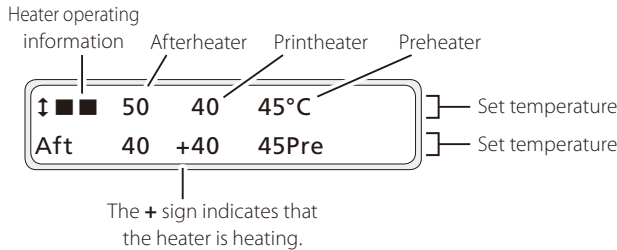
◇ The heaters are in standby at the temperatures below.

- Preheater: 35 °C
- Printheater: 35 °C
- Afterheater: 35 °C

However, the heaters temperatures above are lowered to the set temperatures if the set temperatures are lower than the standby temperatures.

## Display the heater control menu

Press the **HEATER** button to display the heater control menu.



## Heater operating information

- Force heating ON:



- Normal operation:



- Heater temporarily OFF:



## Button operations in the heater control menu

**<** and **>** buttons Change the digit (select the target of the operations)

**^** and **v** buttons Change the heater temperature or the heater operation.

**OK** button Set the afterheater, printhead, or preheater on and off individually.

## Exit the heater control menu display

Press the **HEATER** button while the heater control menu is displayed.

### When the heater control menu display ends automatically



HEATER DISPLAY ENDED

If no buttons are input for 30 seconds while the heater control menu is displayed, the message **HEATER DISPLAY ENDED** appears automatically for two seconds and then the heater control menu display ends. While this message is displayed, no button input is effective.

### Heater preset temperature for each media

The heater preset temperatures for each media type are listed below. Preset the heater temperature according to the media you use.

Media	Media type	Recommended heater temperature setting			Print mode
		Afterheater	Printheater	Preheater	
Glossy vinyl	Glossy	50 °C	40°C	45°C	STANDARD, bidirectional
Matte vinyl	Matte	50 °C	40°C	45°C	STANDARD, bidirectional
Banner	Banner	50 °C	40°C	45°C	STANDARD, bidirectional

We recommend setting the preheater, the printheater, and the afterheater temperatures to the following ranges.

Preheater: 50°C or lower

Printheater: 45°C or lower

Afterheater: 55°C or lower

### Notes

- ◆ When the printheater temperature is set very high, the ink fusion on the media is improved, however this may cause the media to wrinkles or the printout to be very matte. Adjust heater temperatures according to the media type and the environmental temperature.
- ◆ When the printheater temperature is too high, the printer may print at low speed to ensure stable print quality.
- ◆ Set the preheater/afterheater temperatures 5°C higher than the printheater temperature. Incorrect temperature balance between preheater/afterheater and printheater may cause the media to wrinkle.
- ◆ Setting the printheater temperature too high may lead to missing dots on the printout.

## Set the heater preset temperature

1



PRINTER READY  
02:Glossy/1626mm



MENU

Press the **MENU** button.

2



MENU  
↓ INFORMATION



Press the **Down** button to select **EDIT MEDIA PRESETS**.



Press the **OK** button.



Press the **Down** button to select **AFTERHEATER T**.

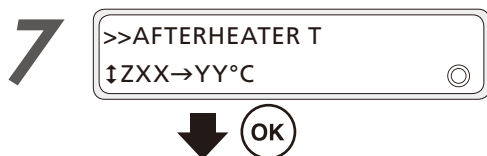


Press the **OK** button.



Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
 XX: Temperature currently set  
 YY: Temperature after the change

Enter the temperature.  
 Press the **Left** and **Right** buttons to select a digit, and press the **Up** and **Down** buttons to set a value.



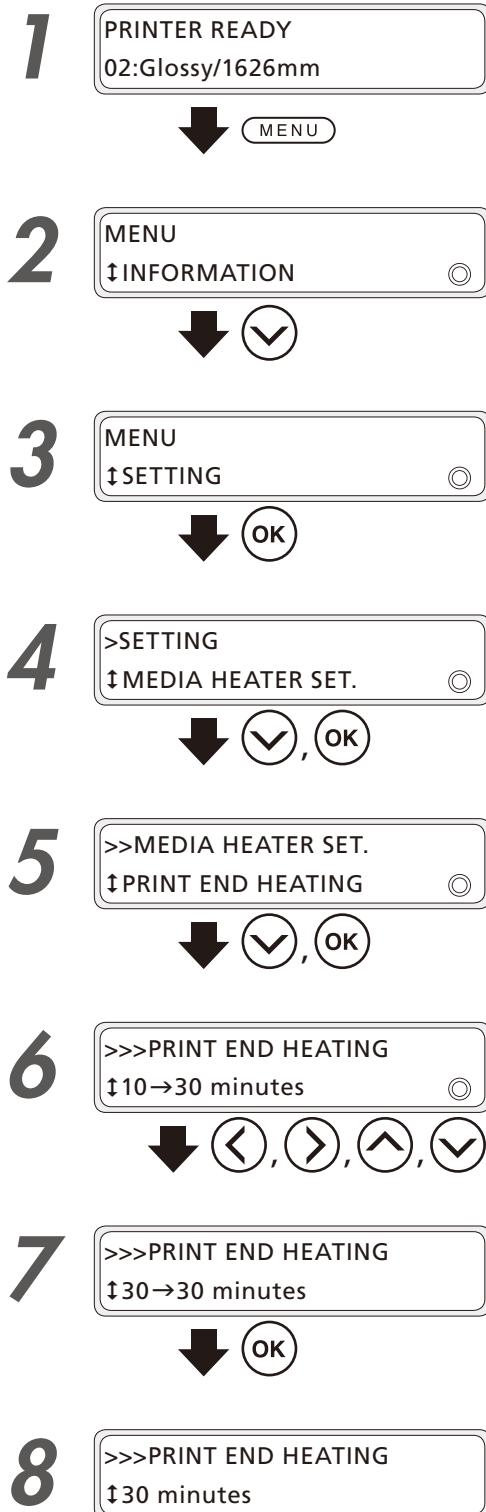
Press the **OK** button.



- Before printing
- Loading the media
- Adjustment
- Maintenance
- Advanced operations
- Troubleshooting
- Menu tree
- Appendix

## Set the print end heating time

Set the duration the heater maintains the set temperature after printing.



Press the **MENU** button.

Press the **Down** button to select **SETTING**.

Press the **OK** button.

Press the **Down** button to select **MEDIA HEATER SET.**, and then press the **OK** button.

Press the **Down** button to select **PRINT END HEATING**, and then press the **OK** button.

Press the **Right** and **Left** buttons to select the digit, and press the **Up** and **Down** buttons to select a value for the print end heating time.

Press the **OK** button.

## Select the standby time

Select the time to maintain the standby set temperature of the heater (including the time for transition to the standby set temperature) after printing.

1 PRINTER READY  
02:Glossy/1626mm



2 MENU  
↓INFORMATION



3 MENU  
↓SETTING



4 >SETTING  
↓MEDIA HEATER SET.



5 >>MEDIA HEATER SET.  
↓STANDBY TIME



6 >>>STANDBY TIME  
↓30 minutes



7 >>>STANDBY TIME  
↓60 minutes



8 >>>STANDBY TIME  
↓60 minutes

Press the **MENU** button.

Press the **Down** button to select **SETTING**.

Press the **OK** button.

Press the **Down** button to select **MEDIA HEATER SET.**, and then press the **OK** button.

Press the **Down** button to select **STANDBY TIME**, and then press the **OK** button.

Press the **Up** and **Down** buttons to set the standby time.

Press the **OK** button.

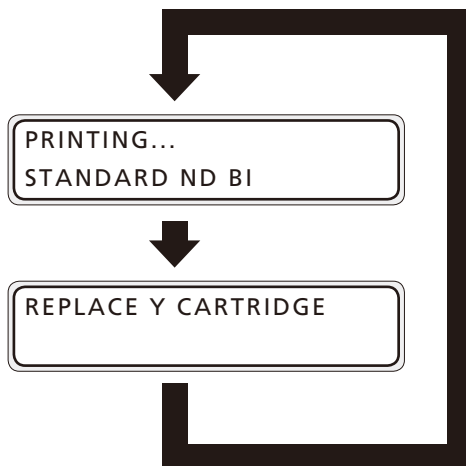
# Out of ink while printing

When the printer runs out of ink during online printing, printing is suspended and the printer enters pause mode. When an ink cartridge is empty, the **INK** LED goes off. You are advised to follow the message instructions.

1

**INK LED goes off.**

2



The message appears and a warning beep is emitted to prompt you to replace the ink cartridge.

3

**Replace the ink cartridge.**

See **Install and replace an ink cartridge** on **page 201**.

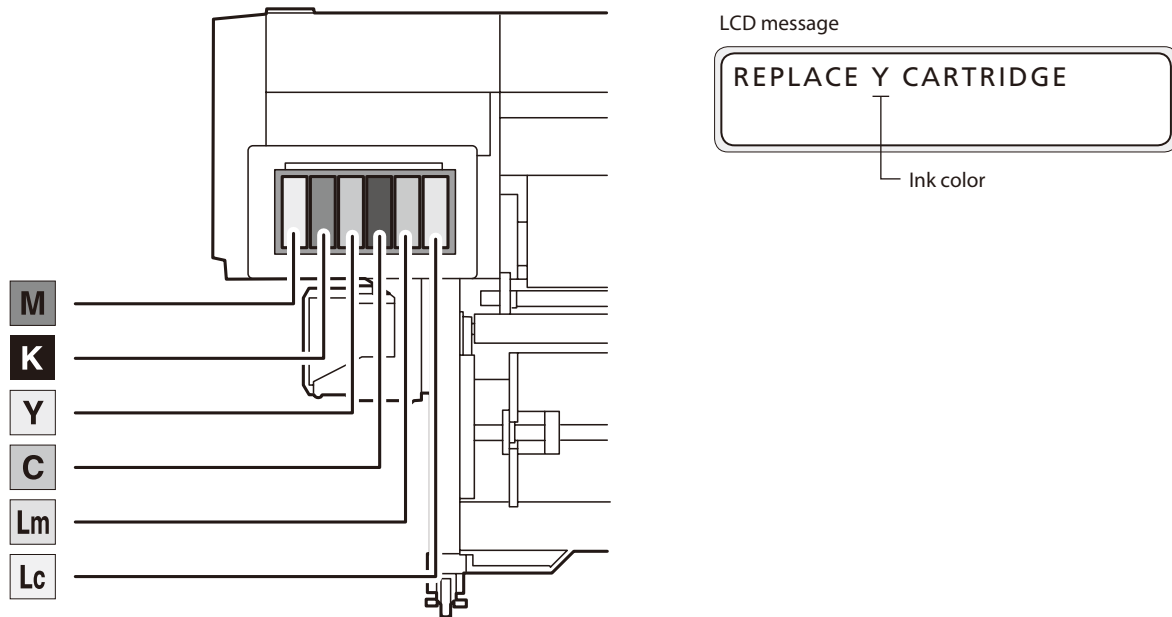


## ***The warning beep does not stop.***

- ◇ Perform one of the following action to stop the warning beep.
  - Replace the empty ink cartridge.
- ◇ Refer to page **page 187** if you want to stop the warning beep from being emitted when you print with no more ink left.

## Install an ink cartridge

The installation locations (slots) of ink cartridges are defined for each color. Be sure to insert the cartridges to the appropriate slots.



### CAUTION

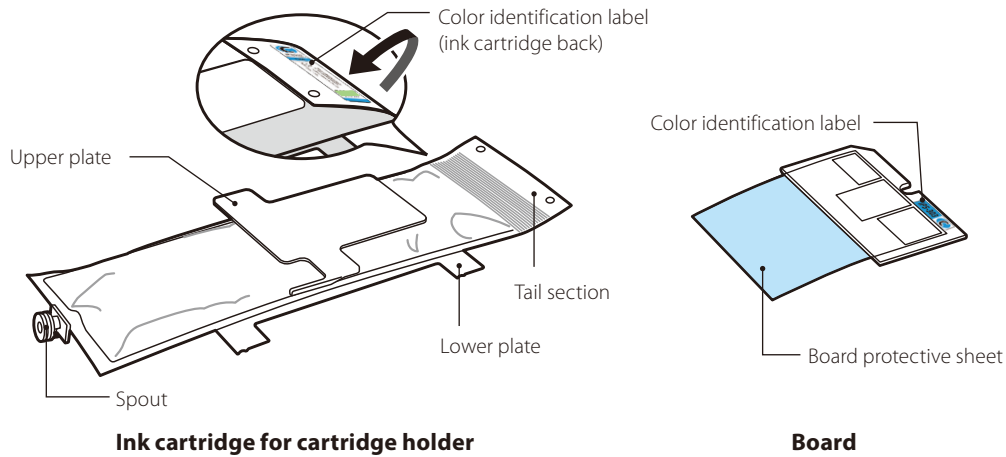
- ◆ Do not remove ink trays in the following cases. Otherwise, ink may spill in the printer depending on its state, which may damage the printer.
  - When the printer is not turned on due to power failure or other reason.
  - An error other than ink end has occurred.
- ◆ Do not touch the contact point on the ink cartridge's plate.

## Replace an ink cartridge

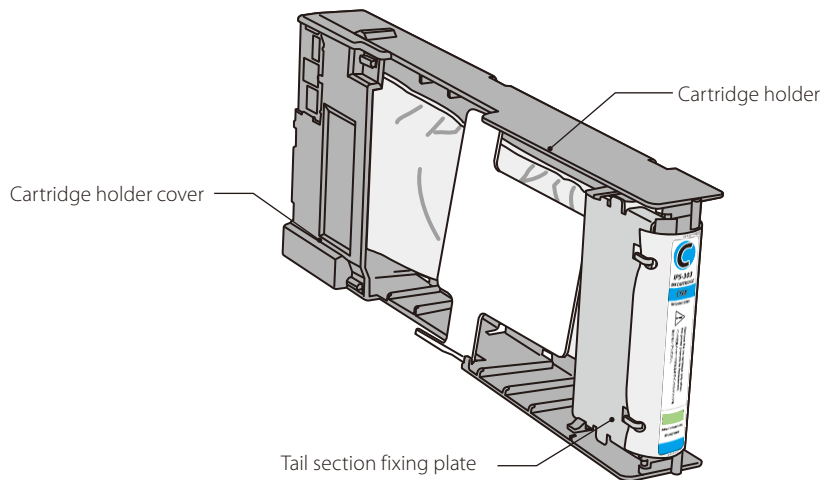
This section describes the reloadable cartridge replacement procedure.

### Consumables

For details about reloadable cartridge names and types, [page 260 Consumables](#).



### Cartridge assembly

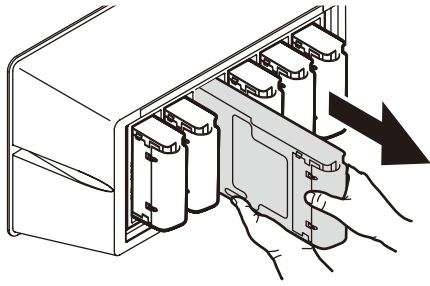


### ! Notes

- ◆ Check that the colors and types indicated on the ink cartridge tail section's color identification label and the board's color identification label are the same.
- ◆ Usually a small quantity of ink remains in the used ink cartridge removed from the cartridge holder. This is normal.
- ◆ Always replace the board together with the used ink cartridge.
- ◆ Once an ink cartridge has been set to a cartridge holder, do not remove it until the ink has been entirely used. If a cartridge that still contains ink is removed and inserted again, ink end may not be detected correctly.
- ◆ To temporarily put aside an ink cartridge that still contains ink, store it using the cartridge holder IP5-320 (sold separately) without removing it from the holder.

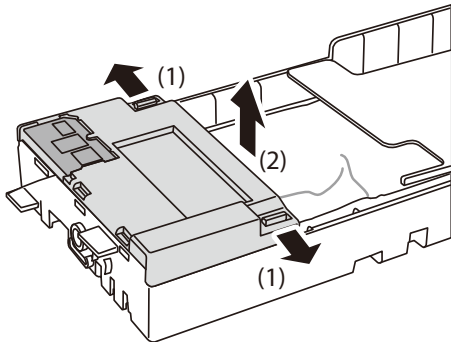


1



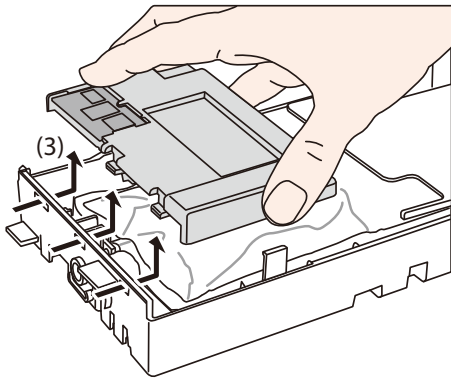
**Pull the used ink cartridge, together with the cartridge holder, out of the printer.**

2



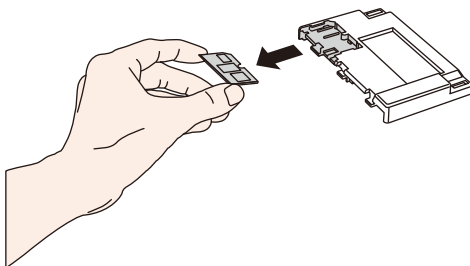
**Remove the cartridge holder cover.**

While keeping the two cover securing claws open by moving them to the outside (arrows (1) direction), pull the cartridge holder cover toward the top (arrow (2) direction).



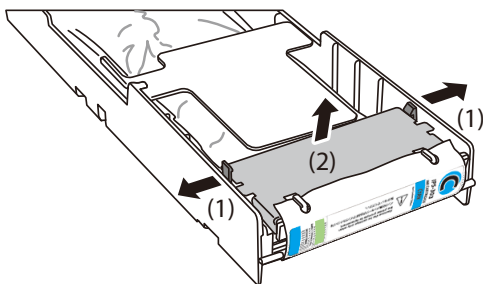
Remove the cartridge holder cover in the arrow (3) direction.

3



**Remove the board from the cartridge holder cover.**

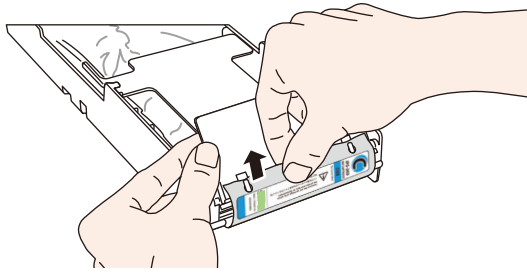
4



**Remove the tail section fixing plate.**

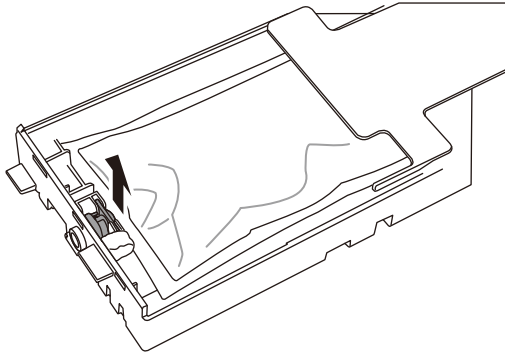
While keeping the two claws securing the plate open by moving them to the outside, pull the tail section fixing plate toward the top.

5



Remove the used ink cartridge tail section from the tail section fixing plate.

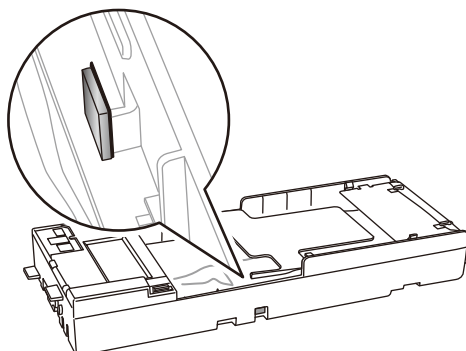
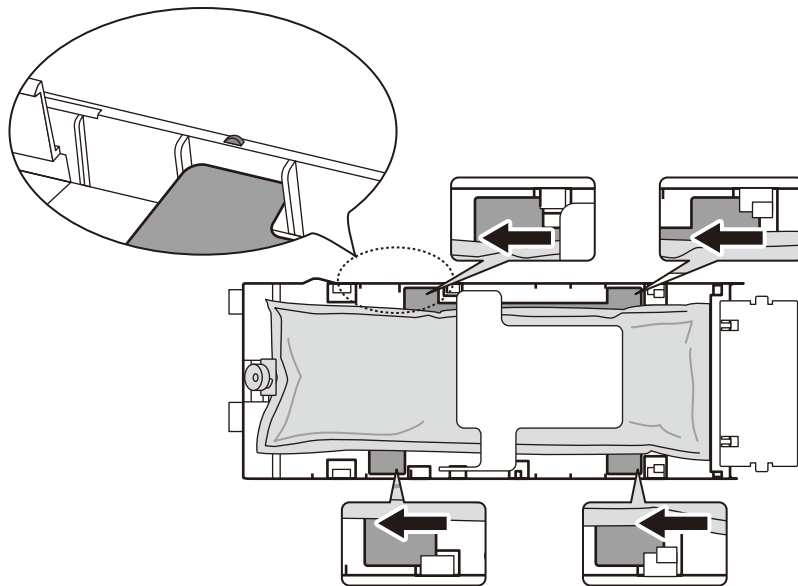
6



Remove the used ink cartridge spout from the cartridge holder.

7

Referring to the locations on the cartridge holder shown in the figure, slide the four protrusions of the ink cartridge lower plate in the arrow direction, and remove the ink cartridge from the cartridge holder.

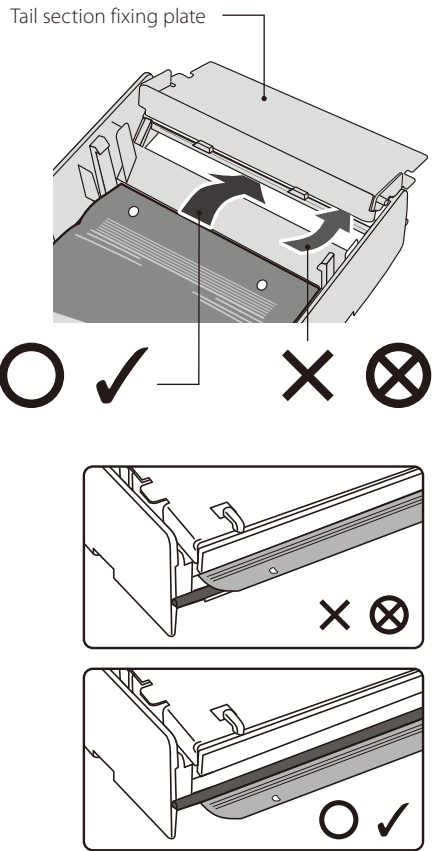


**! Note**

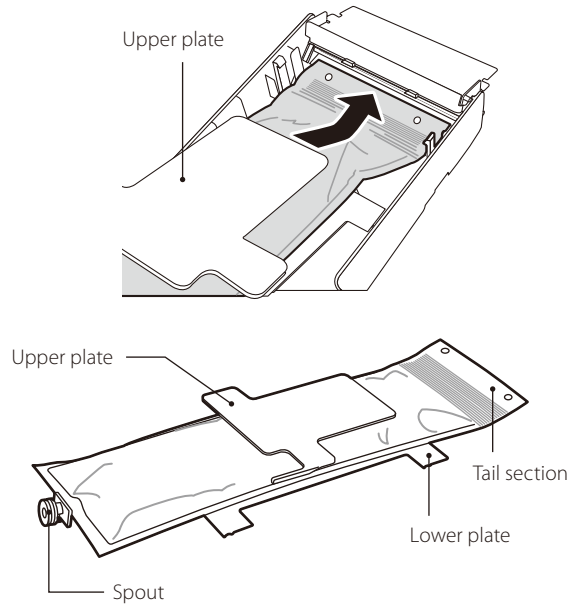
- ◆ Be careful not to take the silver plate off the cartridge holder when removing the used ink cartridge.

# Ink cartridge installation procedure

1

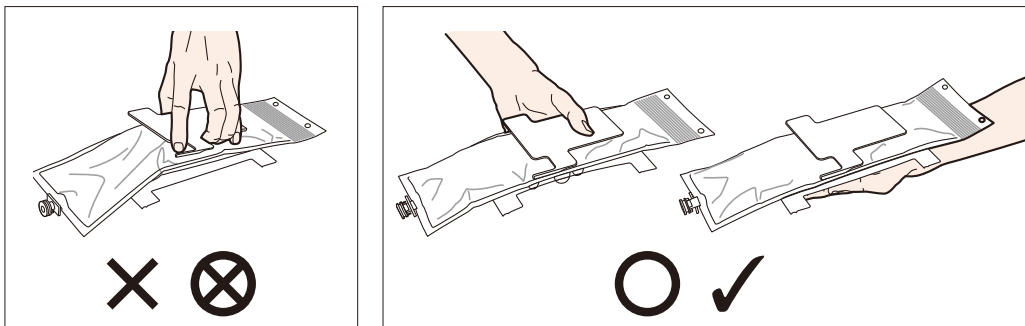


Make sure that the ink cartridge upper plate is face up, and insert the tail section in the hole shown in white in the figure to the right.



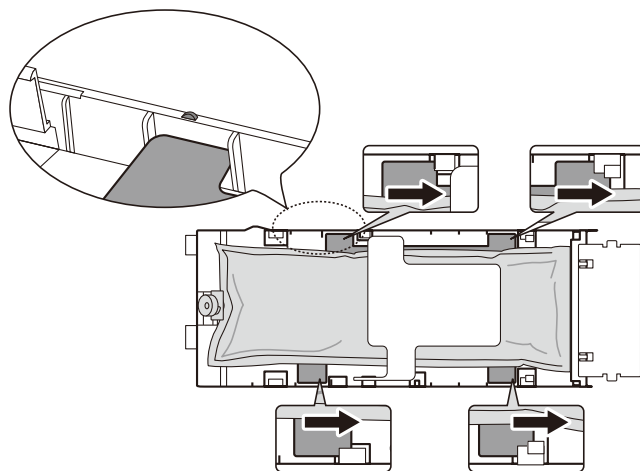
## ⚠ Note

- ◆ Do not hold the ink cartridge by the upper plate only, as it may be taken off. Hold the cartridge by both the upper and lower plates or from the bottom to insert it.



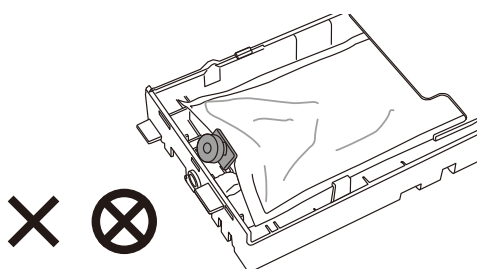
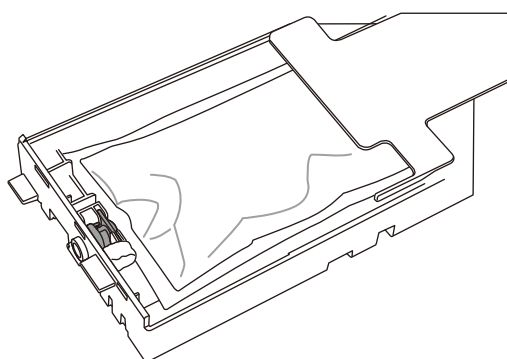
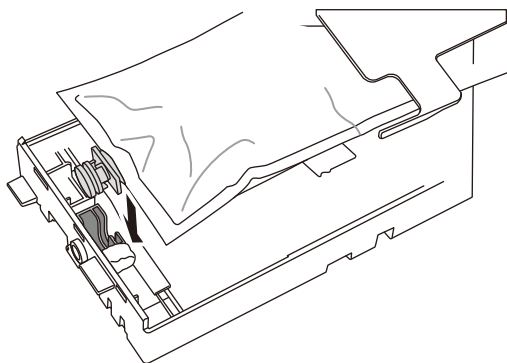
# 2

Referring to the locations on the cartridge holder shown in the figure, insert the four protrusions of the ink cartridge lower plate and slide them under the plate guide following the arrow direction.



# 3

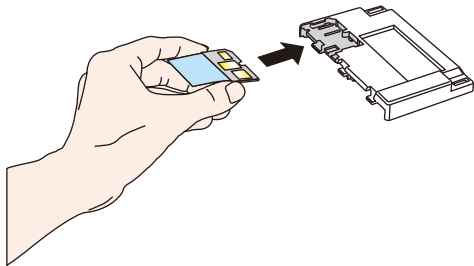
Insert the ink cartridge spout in the cartridge holder.



### Note

◆ Do not install the ink cartridge with the spout tilted.

4



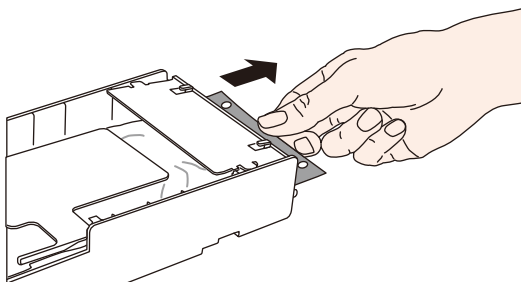
**Insert the board in the cartridge holder cover.**

With the golden surface of the board facing up, insert it so that the board shape matches the shape of the cartridge holder cover.

**! Note**

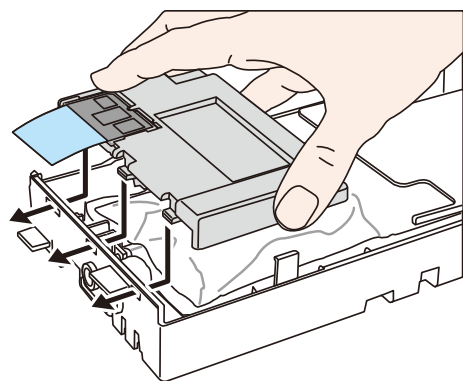
- ◆ Do not take the board protective sheet off until you install the reloadable cartridge to the printer. This sheet prevents contact failure.

5



**Pull softly the tail section of the ink cartridge.**

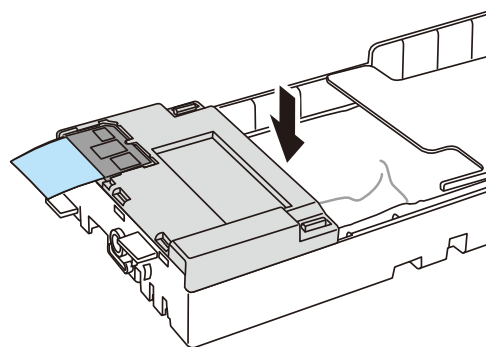
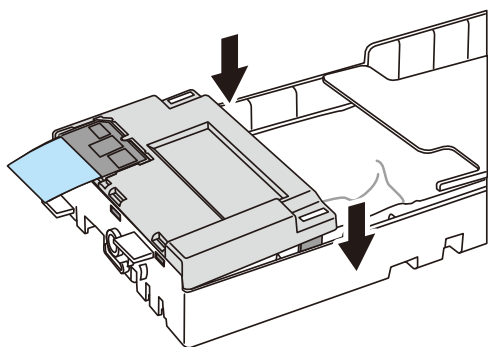
6



**Install the cartridge holder cover.**

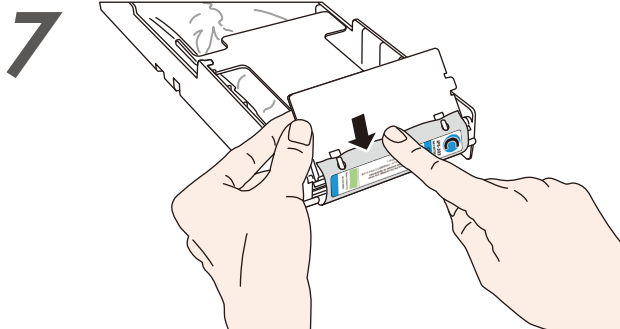
Insert the three protrusions of the cartridge holder cover in the cartridge holder holes.

Hook the cartridge holder cover to the claws to secure it.



**! Note**

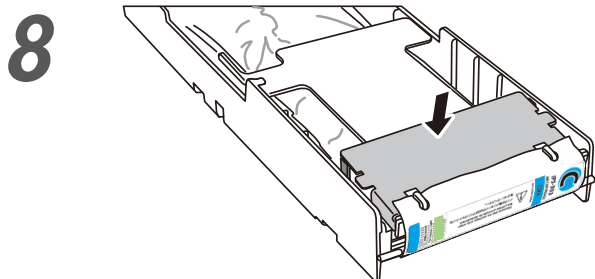
- ◆ Make sure that the board protective sheet does not get between the cartridge holder and the cartridge holder cover.



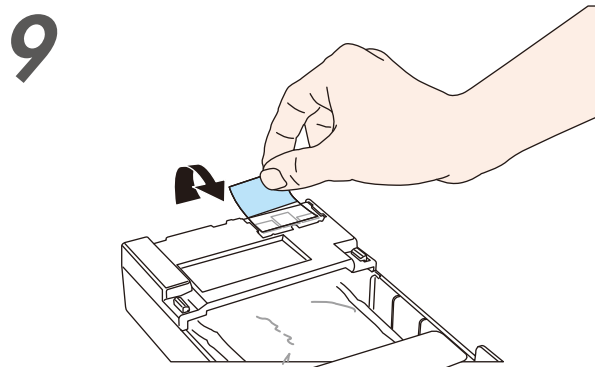
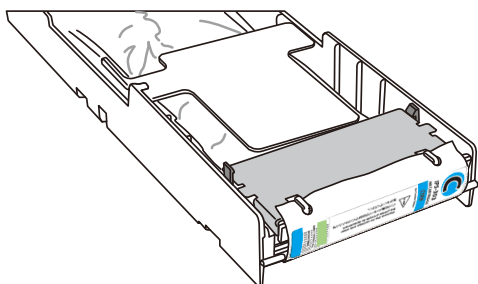
Insert the tail section fixing plate hooks into the ink cartridge tail section holes to attach it.

**! Note**

- ◆ Do not apply an excessive force as the ink cartridge holes may be deformed.



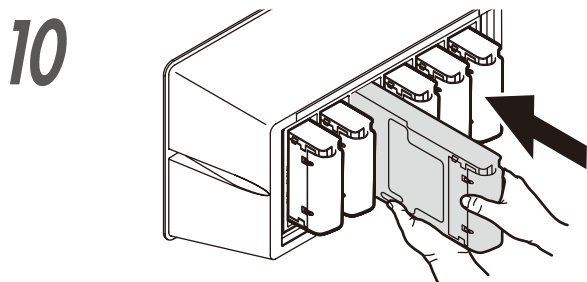
Hook the tail section fixing plate to the cartridge holder claws.



Remove the board protective sheet.

**! Note**

- ◆ Be sure to remove the board protective sheet. Installing the ink cartridge to the printer without removing the board protective sheet may cause a malfunction.



Insert the reloadable ink cartridge into the slot.

**! Notes**

- ◆ Check that the color on the ink cartridge tail section label and the color on the ink box label are the same.
- ◆ Do not push strongly the tail section fixing plate toward the inside.

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

**Troubleshooting**

Menu tree

Appendix



# *Troubleshooting*



# Check the problem

Before deciding that there is a serious problem with the printer, check the following items.


## Power does not turn on.

Items to be checked	Corrective measures
Power cable connection	Check that the power cable is correctly plugged into the power outlet.
Power supply to the outlet	Supply power to the power outlet.





## The paper guide is not heated even when the heater is turned on.

Items to be checked	Corrective measures
Printer status	The paper guide is heated during printing or when the heater is turned on with the heater control menu. Make sure that the paper guide is heated by printing the nozzle print pattern or set the heater to ON. See <b>Adjust the heaters temperatures</b> on  <b>page 194</b> .
Host computer RIP software setting	The heater temperature can also be set in the RIP software on the host computer. Check the host computer setting.
Heater control menu	Turn on the heaters (afterheater/printheater/preheater) again, and then print the nozzle print pattern or forcibly set the heater to ON to check that the paper guide is heated. See <b>Adjust the heaters temperatures</b> on  <b>page 194</b> .

## The printer does not start or operate correctly.

Items to be checked	Corrective measures
<b>ERROR</b> LED and message on the operation panel	See <b>When an error message is displayed</b> on  <b>page 215</b> .

## The printer cannot print.

Items to be checked	Corrective measures
USB cable connection	Connect the USB cable correctly. See <b>To connect the USB cable</b> on  <b>page 35</b> .
<b>ERROR</b> LED and message on the operation panel.	See <b>When an error message is displayed</b> on  <b>page 215</b> .
<b>ERROR</b> LED off	Print the nozzle adjustment pattern. See <b>Print the nozzle print pattern</b> on  <b>page 92</b> . (Confirm that the RIP software <b>Test pattern</b> is printed.)
Print head cleaning	Clean the print heads. See <b>Performing cleaning independently</b> on  <b>page 115</b> .








Although the printer is in the print mode, printing does not start with PREHEATING displayed on the operation panel.

Items to be checked	Corrective measures
Room temperature	Raise the room temperature. (Recommended temperature: 20 to 25°C)
Effect of air flow	If the air from an air conditioner or a fan is blowing against the paper guide, change the air flow direction, the orientation of the printer, or the location of the printer.


The transmitted data is not printed.

Items to be checked	Corrective measures
ONLINE LED (flashing?)	Check the communication conditions to the host computer.

Media jams occur frequently.

Items to be checked	Corrective measures
Media type	Check whether the media type setting matches the type of media installed.
Media installation	Install the media properly. See <b>Loading the media on the printer</b> on  <b>page 40</b> .
Obstructions in the carriage path preventing the carriage from moving well	Remove any obstructions. See <b>How to clear media jams</b> on  <b>page 213</b> .
Obstructions in the media path preventing the media from advancing well	Remove any obstructions. See <b>How to clear media jams</b> on  <b>page 213</b> .
Suction fan power	If the suction fan power is not proper, reduce the power. See <b>Prevent the media from sticking and wrinkling</b> on  <b>page 172</b> .
Heater temperature setting	If the heater temperature is not optimally set, lower the heater temperature. See <b>Adjust the heaters temperatures</b> on  <b>page 194</b> .

Print quality is poor.

See **Solve print quality issues** on  **page 184**.

Printout are blank sheets.

Items to be checked	Corrective measures
Print data	Check the current print data to confirm that you sent blank sheet data.

Cannot load the media

See **Procedure to load transparent media and media with a black reverse side** on  **page 48**.

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix

### Printing is slow. The carriage sometimes moves.

Items to be checked	Corrective measures
USB connection speed	<p>When the data transmission speed is slow, the printer waits for the data with the print heads capped.</p> <p>Check the USB's transmission speed. If the USB connection is full speed, the speed can be improved by changing the conditions of the connection to the computer as follows, so that the connection becomes high speed.</p> <ul style="list-style-type: none"> <li>- Reconnect the USB cable.</li> <li>- Connect the USB cable to the USB 2.0 port.</li> <li>- Reinstall the driver.</li> <li>- Change the USB cable to a cable supporting high speed transmissions.</li> <li>- If a hub is used, change the hub to a model supporting high speed transmissions.</li> </ul>

### Printing is slow. During print, print heads are capped frequently.

Items to be checked	Corrective measures
High-temperature environment	If the printer temperature is 40°C or more, the printer prints at a lower speed. Set the ambient temperature to 20 to 25°C (recommended temperature), and leave the printer for one hour or more before starting the print.
Computer specifications	Remove any additional devices connected via USB.
Computer specifications	Connect the printer to a computer satisfying the recommended operational environment for your RIP software. For the recommended operational environment, contact the manufacturer of your RIP software.
Computer other processing	Terminate other software applications, for example, anti-virus software.

### You cannot understand the current operation panel display language.

Items to be checked	Corrective measures
Language setting	Start with the printer turned off. On the operation panel, press the <b>MENU</b> button and hold it down. While holding the <b>MENU</b> button down, press the <b>POWER</b> switch and hold it down. Continue to hold down both buttons. Then the language selection menu appears on the operation panel display. Highlight your preferred language with the <b>Up</b> and <b>Down</b> buttons, then press the <b>OK</b> button.

### Clogged nozzles cannot be cleared.

Items to be checked	Corrective measures
Damaged media edges	<p>If the media is damaged with some sections coming out from the edge guards, it may contact the heads nozzle surfaces and cause nozzles to clog.</p> <p>Cut any damaged sections with a pair of scissors or a cutter before installing the media.</p>
Adhesive coming off the vinyl causing the media to rise	Feed the media to beyond the risen area.
Media wrinkling and rising	<p>Set the suction fan level to HIGH.</p> <p>Decrease the printhead temperature.</p>
Media adhering to the platen	<p>Set the suction fan level to LOW or OFF to make it advance again.</p> <p>Setting media advance mode to BACK &amp; FWD LOW may also prevent the media from adhering to the platen.</p>
Daily maintenance	Check that the daily maintenance has been executed and that it is performed periodically.

# How to clear media jams

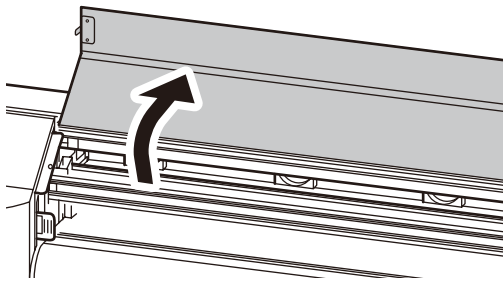
1

MEDIA JAM ERROR 1  
LIFT THE LEVER

The message to the left appears.

X: Media jam type	Meaning
1: Media jam 1	A jam on the carriage is preventing the printer from operating correctly.
2: Media jam 2	A media not supported is used. The media cannot be detected correctly.
3: Media jam 3	An obstruction in the carriage path, such as media wrinkles, prevents the printer from operating correctly.

2



Lift the pressure roller lever and open the front cover.

↓ When you lift the lever

OPEN COVERS AND  
REMOVE MEDIA

↓ When you open the cover

LIFT THE LEVER AND  
REMOVE MEDIA

3 Clear the media jam, make sure that no obstruction is left in the carriage path and the media feed path, and then close the front cover.

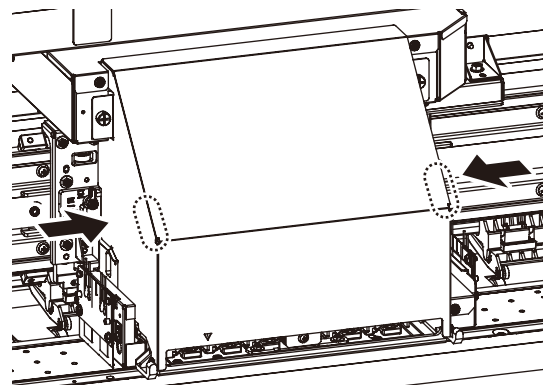
## ⚠ Note

- ◆ In case of roll media, rewind some of the media.

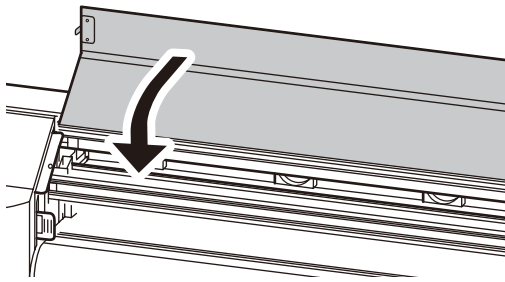


### To manually move the carriage...

- ◆ If the carriage must be moved manually, slide the carriage by softly pressing locations indicated with the arrows.



4



**Close the front cover.**

The carriage moves to the home position.

5

CARRIAGE IS MOVING  
PLEASE WAIT

**Load the media on the printer again.**

See To load media on the Printer on  **page 40**.

 **Note**

- 
- ◆ When the printer is jammed with media, the print heads may contact the media and cause print misses. In such cases, perform print head recovery.

# When an error message is displayed

When the **ERROR** LED lights up, check the message displayed on the operation panel.

Error messages shown below are classified into two groups.

Service call errors:

Errors that the operator (customer) cannot recover, such as hardware/software failures. Contact your service representative.

Operator call errors:

Errors that the operator (customer) can recover.

To recover the error, follow the advice described here.

## Service call errors



### Restart the printer.

- ◇ If a service call error occurs, restart the printer by turning it off and on as follows. Then the error may be recovered.
  - (1) Turn off the power switch on the operation panel.
  - (2) Remove the power cable from the power outlet, and then remove it from the power inlet at the rear of the printer.
  - (3) Hold the Printer for one minute or more.
  - (4) Connect each power cord above to its inlet, then connect the two cords to the socket.
  - (5) Turn on all three switches above.

### <System error>

SYSTEM ERROR nnnn  
RESTART PRINTER

nnnn: Error code

<b>Meaning</b>	An unrecoverable error occurred.
<b>Action</b>	Contact your service representative, and inform them of the displayed error code.



## If the system error 2320 is displayed

◇ Try the following procedure as it may recover the error.

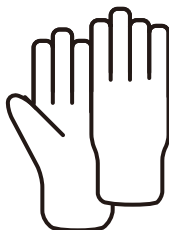
### Required items



1. Dropper



2. Sheet mount cleaning liquid



3. Gloves



4. Cleaning swab



### Note

- ◆ The items 1, 2, and 3 above are included in the sheet mount cleaning kit A (IP5-283).
- ◆ Do not discard the items 1 and 2 above after use, but use them again for sheet mount cleaning.

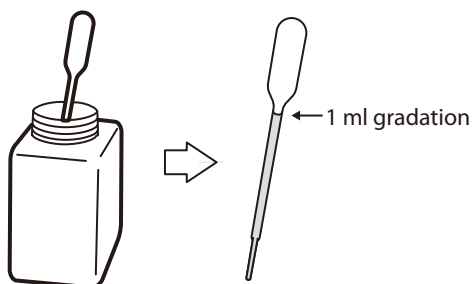
1

Turn the printer off.

2

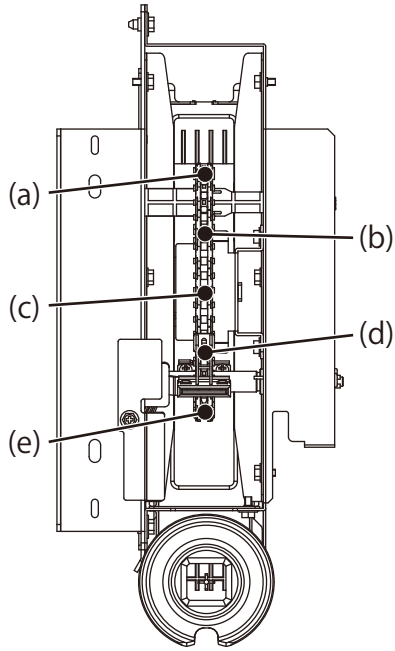
Open the front cover and then the capping unit cover.

3

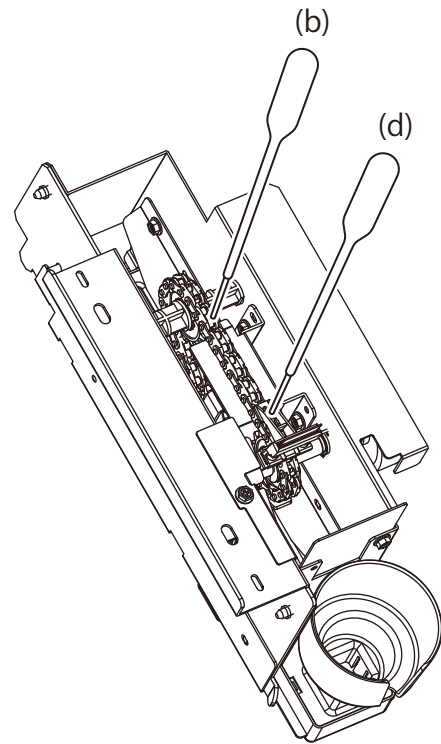
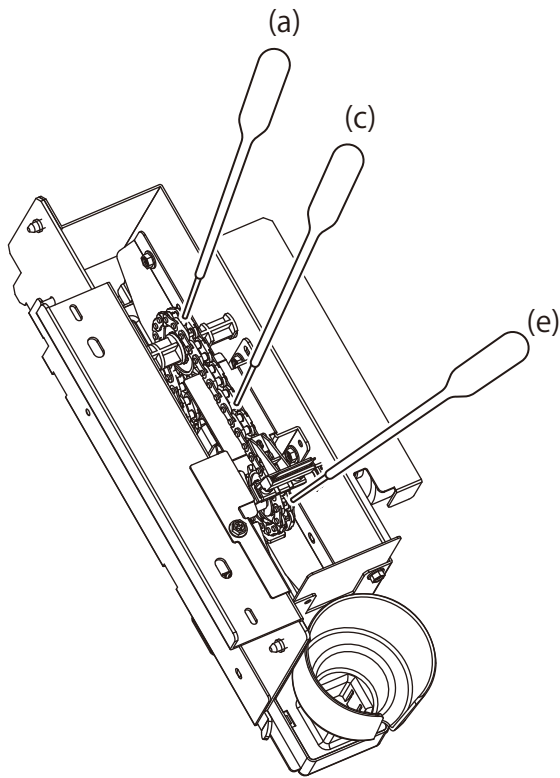


Draw 1 ml of sheet mount cleaning liquid using the dropper.

# 4



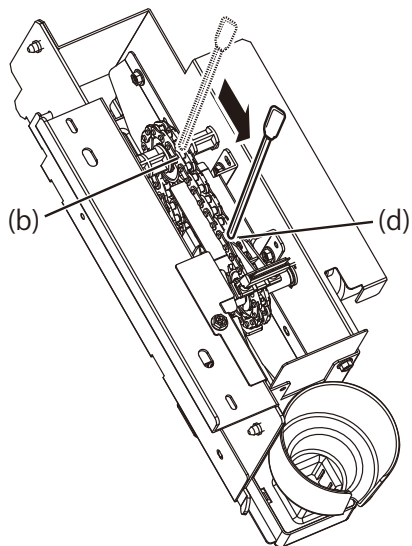
Below the chain shown in the figure, insert the dropper tip in the area (a) and inject the sheet mount cleaning liquid. In the same manner, inject 1 ml of sheet mount cleaning liquid to the areas (b), (c), (d), and (e) shown in the figure.



# 5

Wait 5 minutes.

6



Insert the cleaning swab handle in the area (b) shown in the figure of the chain on the left and move it in the direction of the arrow until it reaches the area (d).

7

Close the capping unit cover and then the front cover.

8

Turn the printer on.

The procedure is complete when the printer starts without the system error 2320.



## Operator call errors

The following errors can be recovered by the operator.

### <Ink errors>

CC INK MISSING  
INSTALL INK CRTG

CC: Ink color

<b>Meaning</b>	An ink cartridge is not installed.
<b>Action</b>	You are advised to follow the message instructions. If this message appears when a ink cartridge is installed for the specified color, the ink cartridge installation may not be correct. Check that it is installed properly.

CHECK CC CARTRIDGE

nn

nn: Ink error code CC: Ink color

<b>Meaning</b>	A problem occurred with an ink tray, or the ink cartridge was identified as non genuine.
<b>Action</b>	You are advised to follow the message instructions. Write down the displayed error code.

REPLACE CC CARTRIDGE

CC: Ink color

<b>Meaning</b>	The ink cartridge is empty.
<b>Action</b>	You are advised to follow the message instructions. See <b>Install and replace an ink cartridge</b> on <a href="#">page 201</a> .

INK COLOR ERROR  
CHECK CC CARTRIDGE

CC: Ink color

<b>Meaning</b>	The ink cartridge color is not correct.
<b>Action</b>	Install the correct ink cartridge.

INCORRECT CC INK TYPE  
OPEN INK BOX COVER

CC: Ink color

<b>Meaning</b>	The ink cartridge type is not correct.
<b>Action</b>	Install the correct ink cartridge.

### <Waste ink bottle errors>

INSTALL  
WASTE INK BOTTLE

<b>Meaning</b>	No waste ink bottle is installed.
<b>Action</b>	You are advised to follow the message instructions. See <b>Waste ink bottle check and replacement</b> on <a href="#">page 102</a> .

REPLACE  
WASTE INK BOTTLE

<b>Meaning</b>	The waste ink bottle is full.
<b>Action</b>	You are advised to follow the message instructions. See <b>Waste ink bottle check and replacement</b> on <a href="#">page 102</a> .

<Media jam errors>

MEDIA JAM ERROR 1  
LIFT THE LEVER

<b>Meaning</b>	An obstruction is left in the carriage path and the printer cannot drive the carriage normally.
<b>Action</b>	Lift the pressure roller lever and open the front cover. If the media jam (0) error occurs repeatedly although there is no media jam or no obstruction in the carriage path, contact your service representative. See <b>How to clear media jams</b> on <a href="#">page 213</a> .

MEDIA JAM ERROR 2  
LIFT THE LEVER

<b>Meaning</b>	A media not supported is used and the media cannot be detected correctly.
<b>Action</b>	Lift the pressure roller lever and open the front cover. Check also that the settings are correct. See <b>How to clear media jams</b> on <a href="#">page 213</a> .

MEDIA JAM ERROR 3  
LIFT THE LEVER

<b>Meaning</b>	An obstruction is left in the carriage path and the printer cannot drive the carriage normally.
<b>Action</b>	Lift the pressure roller lever and open the front cover. If the media jam (0) error occurs repeatedly although there is no media jam or no obstruction in the carriage path, contact your service representative. See <b>How to clear media jams</b> on <a href="#">page 213</a> .

<Media errors>

LIFT THE LEVER AND  
LOAD THE MEDIA

<b>Meaning</b>	No media is installed on the printer.
<b>Action</b>	When there is no media, install new media. If the flange is not attached correctly, attach it correctly. See <b>Load media on the Printer</b> on <a href="#">page 40</a> .

LOAD THE MEDIA

<b>Meaning</b>	The media cannot be detected.
<b>Action</b>	See <b>Load media on the Printer</b> on <a href="#">page 40</a> .

MEDIA WIDTH ERROR  
CHECK MEDIA WIDTH

<b>Meaning</b>	The width of the installed media is not correct (longer than 64 inches).
<b>Action</b>	Load media of the specified size. See <b>Load media on the Printer</b> on <a href="#">page 40</a> .

MEDIA HAS SKEWED  
ALIGN MEDIA

<b>Meaning</b>	The media has skewed.
<b>Action</b>	Reinstall the media correctly. Ink may have been discharged on the platen depending on the skew level. In that case, completely remove the ink from the platen. See <b>Load media on the Printer</b> on <a href="#">page 40</a> .

MEDIA SKEW. CONTINUE  
PRINT? OK/CANCEL

<b>Meaning</b>	Skewed media was detected during printing.
<b>Action</b>	Continue to print or stop printing.

REMOVE MEDIA WRINKLE  
PRINT? OK/CANCEL

<b>Meaning</b>	Media wrinkles have been detected during print.
<b>Action</b>	Remove the media wrinkles and continue printing, or stop printing. (See <b>Media wrinkles have been detected</b> on <a href="#">page 231</a> .)

<Print head error>

PH COOLING PROCESS  
PLEASE WAIT

<b>Meaning</b>	The printer operation was suspended, as the print heads temperature exceeded 40°C. The print heads temperature is always monitored by the printer to guarantee stable ink ejection.
<b>Action</b>	Secure an ambient temperature between 15 and 30°C to prevent the print heads temperature increase. You may also press the <b>CANCEL</b> button to suspend the printing.

PH TEMP IS TOO HIGH  
PRINT? OK/CANCEL 

<b>Meaning</b>	The print heads temperature exceeds the printer operating range.
<b>Action</b>	Secure an ambient temperature between 15 and 30°C to prevent an increase in the print heads temperature. Press the <b>OK</b> button to start the printing. You may also press the <b>CANCEL</b> button to suspend the printing.

PH COOLING PROCESS  
STANDARD ND BI

<b>Meaning</b>	The printer monitors the print heads temperature to make sure the ink is ejected in a stable manner. If the temperature exceeds 40°C, a protection mechanism is triggered and the printing is suspended.
<b>Action</b>	Secure an ambient temperature between 15 and 30°C to prevent an increase in the print heads temperature. The printing resumes automatically after the print heads temperature has decreased.

<Communication errors>

NO DATA RECEIVED  
CHECK CONNECTION

<b>Meaning</b>	During the print data transfer, a USB connection failure or cable disconnection was detected.
<b>Action</b>	Check the USB cable connection.

DATA COMMUNICATION  
WAS INTERRUPTED

<b>Meaning</b>	Though a timeout occurs during the print data transfer, its cause is not a printer failure.
<b>Action</b>	Check the USB cable connection.

<Other errors>


CLOSE COVERS

<b>Meaning</b>	The front cover is open.
<b>Action</b>	You are advised to follow the message instructions.

PRIME INK SYSTEM

<b>Meaning</b>	Cleaning or printing was started before priming the ink system.
<b>Action</b>	Prime the ink system before starting cleaning or printing.

MANUALLY ADJUST n  
ADV VAL/PRINT POS 

<b>Meaning</b>	Automatic print adjustment could not be performed.
<b>Action</b>	You are advised to follow the message instructions. (See <b>When automatic print adjustment cannot be performed</b> on  <b>page 73</b> .)

n: Error code

Before printing

Loading the media

Adjustment

Maintenance


Advanced operations

Troubleshooting

Menu tree


Appendix

INSTALL WIDER MEDIA 


<b>Meaning</b>	Media of less than 762 mm (30 inches) in width was installed when automatic nozzle map was performed.
<b>Action</b>	Use media of 762 mm (30 inches) or larger when performing automatic nozzle map. (See <b>When an error occurs with automatic configuration</b> on  <b>page 100</b> .)

MANUALLY CONFIGURE NOZZLE MAPPING n 

n: Error code

<b>Meaning</b>	Automatic nozzle map could not be performed.
<b>Action</b>	You are advised to follow the message instructions. (See <b>When an error occurs with automatic configuration</b> on  <b>page 100</b> .)

AUTO NOZZ MAP ERROR  
Lc Lm C Y K M 

<b>Meaning</b>	An error occurred during automatic nozzle map.
<b>Action</b>	You are advised to follow the message instructions printed on the error print result of automatic nozzle map. (See <b>When an error occurs with automatic configuration</b> on  <b>page 100</b> .)

PLEASE WARM THE ROOM AND WAIT FOR A WHILE

<b>Meaning</b>	The ambient temperature is below the printer operating range.
<b>Action</b>	Operate the printer within the operating temperature range (15 to 30°C). You may also press the <b>CANCEL</b> button to suspend the printing.

ROOM TEMP TOO HIGH PRINT? OK/CANCEL

<b>Meaning</b>	The ambient temperature exceeds the printer operating range.
<b>Action</b>	Operate the printer within the operating temperature range (15 to 30°C). Press the <b>OK</b> button to start the printing. You may also press the <b>CANCEL</b> button to suspend the printing.

DECREASE ROOM TEMP STANDARD ND BI

<b>Meaning</b>	The ambient temperature exceeds the printer operating range.
<b>Action</b>	Operate the printer within the operating temperature range (15 to 30°C). The printing resumes automatically after the ambient temperature has decreased.

DECREASE ROOM TEMP

<b>Meaning</b>	The temperature of the room where the printer is installed is too low.
<b>Action</b>	Increase the room temperature to 5°C or above.


PLEASE WARM THE ROOM

<b>Meaning</b>	The temperature of the room where the printer is installed is too high.
<b>Action</b>	Cool the room to 35°C or lower.


AN ERROR OCCURRED PLEASE WAIT

<b>Meaning</b>	An error was detected during printing.
<b>Action</b>	Wait until the error message is displayed. If no error messages are displayed after five minutes, restart the printer.

(when an option is installed)

IONIZER ERROR CONTACT YOUR DEALER nn 

nn: Error code

<b>Meaning</b>	A problem has been detected with the ionizer.
<b>Action</b>	Contact your dealer or a service representative to replace the ionizer. Disable the use of the ionizer in the settings to be able to continue to print. (See <b>Prevent the ink from spreading over the printout (when an option is installed)</b> on  <b>page 172</b> .)

# The media has skewed.

When the media skew check setting is on, the printer checks for skewed media after printing a certain length of media. If the media has skewed more than a defined distance, the print pauses and a screen where you can select to continue or stop the print is displayed.

PRINTING...  
STANDARD ND BI

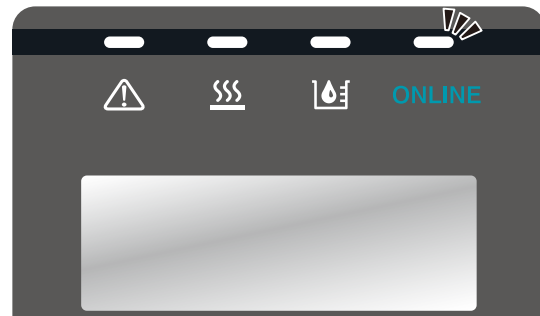


The printer checks for skewed media.

MEDIA SKEW. CONTINUE  
PRINT? OK/CANCEL

Skewed media was detected.

- The ONLINE LED flashes slowly.



Continue printing with the OK button.



PRINTING...  
STANDARD ND BI

Stop printing with the Cancel button.




LIFT THE LEVER  
ALIGN THE MEDIA



**CANCEL is recommended.**

If you select [OK] to continue the print, the rest of the suspended printing job is started. However, the media may be disengaged from the media edge guards, or the printer may be jammed with media. When the printout is lengthy, the skew may worsen, which may damage the printer.

# Warning messages

After printing, occasionally you may see one of the following messages appear on the operation panel with the **ERROR LED**  flashing. They are warning messages. In such cases, follow the instructions in the Action rows.

CHECK MEDIA  
FOR WRINKLES

<b>Meaning</b>	The media has not been fed for a long time (about 250 min). Check the media for wrinkles.
<b>Action</b>	Perform one of the following actions. (1) Release the pressure roller lever and remove the wrinkles. (2) Execute FEED MEDIA and BACK FEED MEDIA to remove the wrinkles. (3) If there are no wrinkles, press any button to remove the warning message.

CHANGE THE HEIGHT  
OF THE PRINT HEADS

<b>Meaning</b>	The print head height setting in the media setting of the media currently used does not match the actual height setting of the print heads.
<b>Action</b>	Perform one of the following actions. (1) Execute CHANGE PH HEIGHT to set the actual print heads height to the same height as the media setting. (2) Check the height set in the media setting. If this setting is not correct, set the print head height setting in the media setting to the actual height of the print heads.

ADJUST BIDIRECTIONAL  
PRINT POSITION

<b>Meaning</b>	Bidirectional print positions have not been adjusted.
<b>Action</b>	Adjust the bidirectional print positions.

ADJUST MEDIA  
ADVANCE VALUE

<b>Meaning</b>	Media advance adjustment value has not been adjusted.
<b>Action</b>	Adjust the media advance adjustment value.

PH RECOVERY  
RECOMMENDED

<b>Meaning</b>	It is recommended to perform cleaning (PH recovery) to prevent the missing dots problem.
<b>Action</b>	Perform cleaning (PH recovery).


PERFORM  
PH RECOVERY NOW

<b>Meaning</b>	Automatic cleaning will be performed when the next printing starts.
<b>Action</b>	Perform cleaning (PH recovery). Performing cleaning in advance prevents automatic cleaning when the next printing starts.

PERFORM  
SHEET MOUNT CLEANING

<b>Meaning</b>	Sheet mount cleaning has not been performed.
<b>Action</b>	Perform sheet mount cleaning.

WASTE INK BOTTLE IS  
ALMOST FULL

<b>Meaning</b>	The waste ink bottle is almost full.
<b>Action</b>	Prepare a new waste ink bottle. See <b>Waste ink bottle check and replacement</b> on  <b>page 102</b> .

CC INK IS  
RUNNING OUT

CC: Ink color

<b>Meaning</b>	CC ink is running out.
<b>Action</b>	Prepare a new ink cartridge. See <b>Install and replace an ink cartridge</b> on <b>page 201</b> .

INK END DETECTED  
CHECK CC CARTRIDGE

CC: Ink color

<b>Meaning</b>	Ink end has been detected regardless of ink still remaining in the cartridge.
<b>Action</b>	Check that the ink cartridge is correctly installed. See <b>Install and replace an ink cartridge</b> on <b>page 201</b> .

PERFORM CAP  
CLEANING

<b>Meaning</b>	The time has come to perform cap cleaning.
<b>Action</b>	Perform cap cleaning.

CHECK TUR UNIT

<b>Meaning</b>	A timeout occurs with a TUR unit process.
<b>Action</b>	Change the TUR unit switch configuration.

CHANGE THE HEIGHT  
OF THE PRINT HEADS

<b>Meaning</b>	The print head height setting of the media currently installed in the printer does not match the print head height setting of the printer.
<b>Action</b>	(1) Check that the print head height setting in the <b>EDIT MEDIA PRESETS</b> menu is correct. (2) Execute <b>CHANGE PH HEIGHT</b> in the <b>PH MAINTENANCE</b> menu to change the height of the print heads. See <b>Print on a thick media</b> on <b>page 165</b> .

The **INK LED** blinks:

<b>Meaning</b>	Ink is running out.
<b>Action</b>	Prepare a new ink cartridge. See <b>Install and replace an ink cartridge</b> on <b>page 201</b> .

<Life-limited parts warnings>

TO REPLACE            XXXXXX  
CONTACT YOUR DEALER

XXXXXX: Part number

<b>Meaning</b>	The lifespan of the displayed part has almost ended.
<b>Action</b>	Contact your dealer or a service representative to replace the part.

REPLACE WIPER BLADE

<b>Meaning</b>	The wiper blades need to be replaced.
<b>Action</b>	Replace the wiper blades.

REPLACE WIPER  
CLEANING LIQUID

<b>Meaning</b>	The wiper cleaning liquid is running out.
<b>Action</b>	Supply wiper cleaning liquid.

REPLACE WIPER SPONGE

<b>Meaning</b>	The wiper sponge needs to be replaced.
<b>Action</b>	Replace the wiper sponge.

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix

# Clear missing dots (nozzle clogging)

If the missing dots still appear after the daily maintenance and after setting NOZZLE MAP, perform the operation below.

## Strong cleaning

Perform the strong cleaning when missing dots still appear after the normal cleaning.



Perform the **NOZZLE PRINT**

## Fill the cap with ink

To clear the nozzle clogging, fill the cap with ink and moisten the print head nozzle surface with ink. After this operation, leave the printer for 1 to 2 hours.



Perform the **NOZZLE PRINT**


## Fill the cap with sheet mount cleaning liquid

In order to clear the nozzle clogging, fill the cap with sheet mount cleaning liquid to immerse the print heads (nozzle surface) in that liquid. After filling the cap, leave the printer one night (12 to 18 hours). Then perform the strong cleaning.



Perform the **NOZZLE PRINT**

## Perform sheet mount cleaning

Clean the print heads surfaces with sheet mount cleaning (  **page 120** ).

## Strong cleaning

1

PRINTER READY  
01: PAPER / 1626mm



PH.RECOVERY

2

PH RECOVERY  
↓NORMAL



3

PH RECOVERY  
↓STRONG



### Press the **PH.RECOVERY** button.

You can perform PH recovery in the following situations.

- When the printer is idle online
- When the printer is online
- During printing
- When the printer is in pause

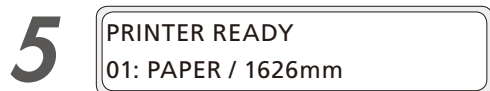
### Press the **Down** button to select **STRONG**.

### Press the **OK** button.

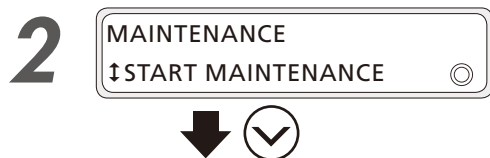




The time is counted down every ten seconds.



### Fill the cap with ink



### Press the OK button.

Check visually that the waste ink bottle is not full.

### Cleaning starts.

Print head cleaning takes several minutes.

When the cleaning starts, the required time is displayed and the time is counted down every 10 seconds.

### The cleaning is complete.

The printers return to its state before cleaning.

- Online idle and online: Switches to online state
- Printing: Resume printing
- In pause: Stays in pause

### Press the MAINTENANCE button.

### Press the Down button to select PH MAINTENANCE.

### Press the OK button.

### Press the Down button to select FILL CAP WITH INK.


### Press the OK button.

6 >>FILL CAP WITH INK  
BOTTLE IS EMPTY? 

↓ 

7 EXECUTING...  
PLEASE WAIT

↓ 

8 >PH MAINTENANCE  
↓FILL CAP WITH INK 

Press the **OK** button.


**Cap filling is complete.**  
**Leave the printer for 1 to 2 hours.**


After the printer has been left for 1 to 2 hours, perform the normal cleaning.


### Fill the cap with wiper cleaning liquid


1 PRINTER READY  
01: PAPER / 1626mm 


↓ 

2 MAINTENANCE  
↓START MAINTENANCE 

↓ 

3 MAINTENANCE  
↓PH MAINTENANCE 

↓ 

4 >PH MAINTENANCE  
↓SET CAP FOR CLNG 

↓  

5 >>SET CAP FOR CLNG  
OK? 

↓ 

CARRIAGE IS MOVING  
PLEASE WAIT

↓ Carriage stops moving.

Press the **MAINTENANCE** button.

Press the **Down** button to select **PH MAINTENANCE**.

Press the **OK** button.

Press the **Down** button to select **SET CAP FOR CLNG**, and then press the **OK** button.

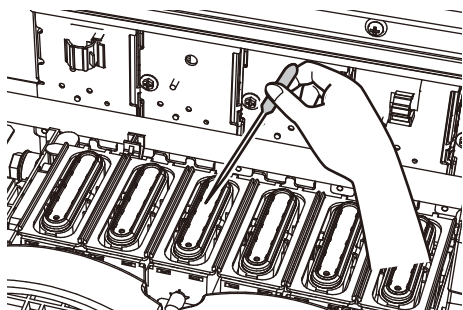
Press the **OK** button.

The carriage moves to the maintenance position.

6 OPEN COVERS



7 INSERT SHEET MOUNT CLNG LQD INTO CAPS



8 CLOSE COVERS



CARRIAGE IS MOVING  
PLEASE WAIT



**Note**

◆ If the current procedure is interrupted by an error before the step 8, start sheet mount cleaning again from step 1.

9 PRESS OK TO END OPER  
TIME ELAPSED XX:XX

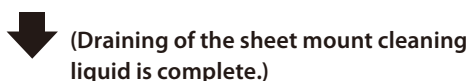


10 OK

11 END OPERATION AND  
DRAIN CLNG LIQUID?



12 CLNG LIQUID DRAINING  
PLEASE WAIT



Open the front cover, and then the capping unit cover.

Use the dropper to fill the cap of each color with sheet mount cleaning liquid.

Close the capping unit cover and the front cover.

The carriage moves to the home position.

**Note**

◆ The SET CAP FOR CLNG operation takes between 12 and 18 hours. After this time has elapsed, follow the panel message and quickly end the operation.

To end the SET CAP FOR CLNG operation, press the OK button.

Press the OK button.

13

START CLEANING  
BOTTLE IS EMPTY?



14

PH RECOVERING  
REQUIRED TIME      XX:XX



15

>PH MAINTENANCE  
↓SET CAP FOR CLNG      ©

**Press the OK button.**

Check visually that the waste ink bottle is not full.

(The strong cleaning starts.)

Fill the cap with wiper cleaning liquid is complete.

# Media wrinkles have been detected

Using the safe scanning system, the Printer detects the media wrinkles during printing. When media wrinkles have been detected, the Printer enters the pause mode and a message appears on the operation panel so that you can select to continue or stop the print.



## The Printer enters the pause mode when...

- ◇ The Printer enters the pause mode when safe scanning is set to **SUSPEND PRINTING** or **SUSPEND&WARNING**.

PRINTING...  
STANDARD ND BI



(When media wrinkles have been detected)

REMOVE MEDIA WRINKLE  
PRINT? OK/CANCEL

When media wrinkles have been detected

- The ONLINE LED flashes slowly.



(When printing continues)

When the Printer is in pause mode, the front cover can be opened and closed and the pressure roller up/down lever can be operated without canceling the job being printed.

When you want to continue the printing, first remove the media wrinkles before resuming the print.

(When printing is canceled)

Stop printing with the Cancel button.



LIFT THE LEVER AND  
LOAD THE MEDIA



## When you continue the printing...

- ◇ If you select **CONTINUE** to continue the print, the printing of the rest of the suspended job is resumed. However, it may happen that the media wrinkles become bigger and that a media jam occurs. When the printout is lengthy, the media wrinkles may also become bigger, which may damage the Printer. Therefore, it is recommended to stop printing.

Open the front cover



OPEN COVERS



Lift the pressure roller up/down lever.

LOWER THE LEVER



***When lifting the pressure roller up/down lever...***

- ◇ When you have lifted the pressure roller up/down lever, place your hand on the media to keep it in place during the operation.



Remove the media wrinkles.



Lower the pressure roller up/down lever.

OPEN COVERS



Close the front cover.

REMOVE MEDIA WRINKLE  
PRINT? OK/CANCEL

Press the OK button to resume the printing.



PRINTING...  
STANDARD ND BI

# Solve print quality issues

This section contains hints to enhance the print quality with the printer based on several symptoms.

Take appropriate actions according to the symptoms.

When several actions are described, they are arranged in order of effectiveness. Therefore, you are recommended to take the actions starting from the top and confirm the effect on the improvement. (Note that all the described actions are not always necessary to solve the problem.)

## The print is pale.

Cause	Solution
The density setting is not correct.	Set density to HIGH DENSITY if high density printing is required, such as when using backlit banner media.
The operating environment is outside the specification of the Printer.	Raise the ambient temperature to 15°C or more (20 to 25°C recommended) to warm the printer adequately.
Media is not selected properly on RIP.	Check the media selection on RIP.

## The printout is blurred or grains appear.

Cause	Solution
The bidirectional print position adjustment and media advance adjustment values are not correct.	(1) Perform bidirectional adjustment and media advance adjustment again. (2) If automatic adjustment has been performed, perform manual adjustment. (See <a href="#">page 72</a> for the procedures for (1) and (2).) (3) If the bidirectional adjustment value is not appropriate after performing bidirectional adjustment, execute detailed bidirectional adjustment. (See <a href="#">page 85</a> for the procedure for (3).)

## Missing dots are found at the beginning of printing.

Cause	Solution
Outside the operating temperature/humidity range	Use the printer within the operating temperature/humidity range. ( <a href="#">page 22</a> )
Obstructions in the nozzle surface	Check the platen, the media edge guards, the capping unit, the wiper blade, and the pressure roller, and remove any foreign matter. Lint or paper fibers coming from a damaged media may touch the print heads, which may cause missing dots. Replace the media with a media with no lint or paper fibers.
The media entered into contact with the nozzle surfaces.	Perform normal cleaning. If the problem persists, perform the action <a href="#">page 226</a> .
Cleaning did not finish normally.	Perform the daily maintenance. Clean the caps.

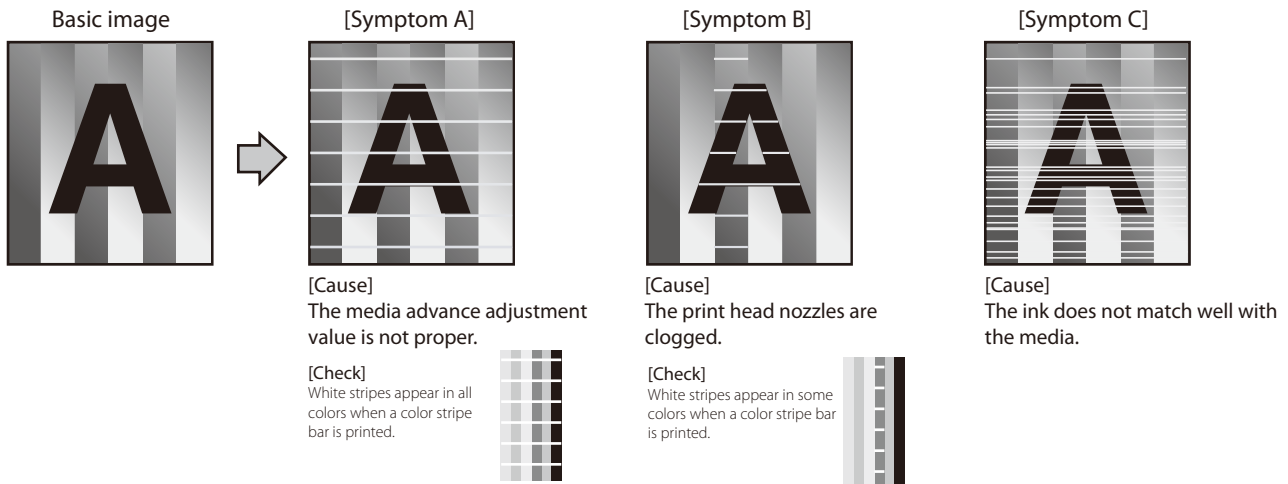
## The media is curled or wrinkled.

Cause	Solution
Outside the operating temperature/humidity range	<ol style="list-style-type: none"> <li>(1) Use the printer within the operating temperature/humidity range. * <b>Note that some media may wrinkles even within the operating temperature and humidity range.</b></li> <li>(2) Use proven media.</li> </ol>
The media storage conditions are not the same as the printer operating conditions.	<p>The difference between the media storage conditions and the printer operating conditions may cause the media to curl or wrinkle. To prevent this, after carrying the media from storage to the operation area, leave the media for while time in the new environment before printing.</p> <p>* <b>The time depends on the media type and the storage conditions.</b></p>
The media was not installed properly.	<p>Check that the media was installed properly in the conditions below.</p> <ul style="list-style-type: none"> <li>- <b>The installed media is installed parallel to the printer.</b></li> <li>- <b>The operation panel shows the media type correctly.</b></li> <li>- <b>The media winding mode is optimal for the installed media.</b></li> <li>- <b>Check that the leading of the media output from the printer is installed straight to the TUR unit paper tube.</b></li> </ul>
The media wrinkled because of the heater temperatures.	<ol style="list-style-type: none"> <li>(1) If the media wrinkles while the printer is warmed by the heaters, install the media only after the printer is warmed up by the heaters.</li> <li>(2) Change the heater temperature. Increase or decrease all three heaters by 5°C.*<sup>1</sup></li> <li>(3) Use proven media.</li> <li>(4) If the media is still wrinkle, feed the media until you reach a portion without wrinkles.</li> <li>(5) If the media wrinkles between each print job, change the media advance mode.</li> </ol>
The media is curled.	<ol style="list-style-type: none"> <li>(1) Do not use media curled in the vertical direction direction (vertical to the media).</li> <li>(2) Do not use media curled in the horizontal direction (from the right edge to left edge). The is so curled that the media edge guards and the suction fan cannot flat the media.</li> <li>(3) Use proven media.</li> </ol>
Set the suction fan parameter of the preset to LOW.	Set the suction fan parameter of the preset to a stronger setting.
Wrinkles caused by media advance	<ol style="list-style-type: none"> <li>(1) Remove the media and install it again.</li> <li>(2) Use proven media.</li> </ol>

\*<sup>1</sup> When the heaters temperatures are changed, adjust the media advance adjustment value again.



## White stripes appear on the print.



Cause	Solution
<b>[Symptom A]</b> The media advance adjustment value is not proper.	Adjust the media advance adjustment value. <ul style="list-style-type: none"> <li>* The media advance adjustment value differs depending on the winding mode, loose or tension.</li> <li>- Be sure to adjust the media advance adjustment value again after changing the winding mode (loose or tension).</li> <li>- Be sure to adjust the media advance adjustment value again after changing the pressure roller lever position.</li> <li>- Be sure to adjust the media advance adjustment value again after changing the suction fan setting of the media preset.</li> </ul>
<b>[Symptom A]</b> The media advance accuracy is poor, or is not stable.	(1) Check that the media was installed properly in the conditions below. <ul style="list-style-type: none"> <li>- The installed media is installed parallel to the printer.</li> <li>- The operation panel shows the media type correctly.</li> <li>- The media winding mode is optimal for the installed media.</li> <li>- If the media is curled or wrinkled, see the description on the problem, The media is curled or wrinkled.</li> </ul> (2) Adjust the pressure on the media with the pressure roller lever. *1 (3) Change the print mode to be slower. *1 *2 (4) Check that the media is correctly stretched between the paper roll and the pressure roller. * If the media is loose when performing the media advance adjustment, the value will be incorrect.
<b>[Symptom B]</b> Print head nozzles are clogged.	(1) Perform a nozzle print, and set nozzle map for the clogged nozzles. (  page 92 ) (2) Check for obstructions such as media lint or ink clot in the nozzle scanning path including the platen surface, and remove them. (3) If the media is curled or wrinkled, solve the problem by referring to the description on the problem, The media is curled or wrinkled. (4) Perform the daily maintenance. * Do not forget to clean the head guard and media edge guards. * Be sure to perform the print head cleaning. (5) Clean the print heads surfaces with print sheet mount cleaning (  page 120 ). - Printing with a color stripe bar is effective to prevent missing dots. (  page 157 )

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

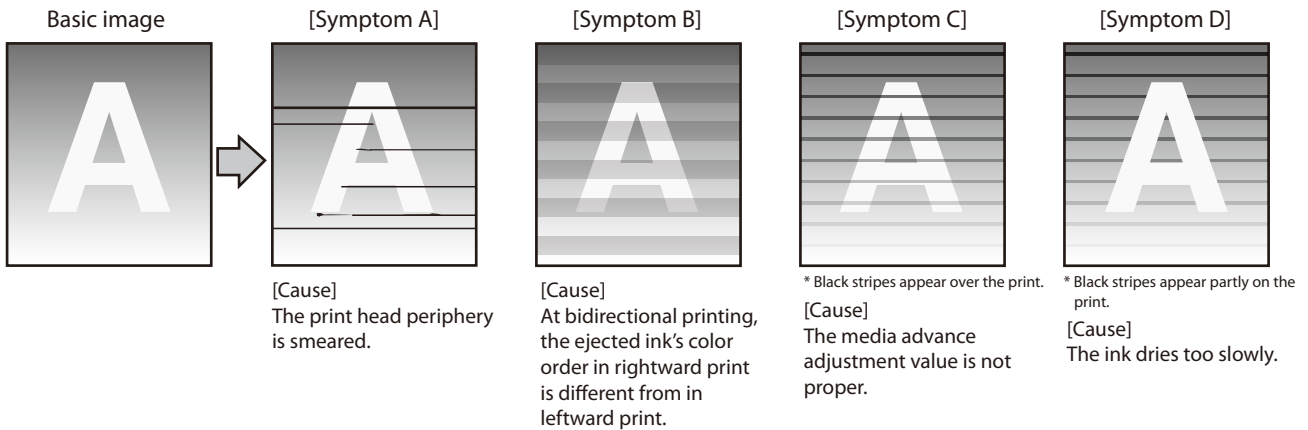
Appendix

<p><b>[Symptom B]</b> Print head nozzles inclination</p>	<p>(1) Print a nozzle print pattern, and set nozzle map for the inclined nozzles. (📖 <b>page 92</b>)</p> <p>(2) Printing with a color stripe bar is effective to prevent missing dots. (📖 <b>page 157</b>)</p>
<p><b>[Symptom C]</b> The ink does not match the media. (Media with low dot spread rate)</p>	<p>(1) Decrease the temperature of all three heaters by 5°C. *1</p> <p style="padding-left: 20px;">* Before starting the print, ensure that the heater temperatures have been decreased to the target temperature.</p> <p style="padding-left: 20px;">* With some media, the increasing the heater temperatures may be effective.</p> <p>(2) Change the print mode to be slower. *1 *2</p> <p>(3) Use proven media.</p> <p>(4) Print in high density.</p>

\*1 Adjust the media advance adjustment value again.

\*2 Note that the print speed differs depending on the mode selected.

## Black stripes appear on the print.



Cause	Solution
<p><b>[Symptom A]</b> The print heads periphery is smeared.</p>	<ol style="list-style-type: none"> <li>Check for obstructions such as media lint or ink clot in the nozzle scanning path including the platen surface, and remove them.</li> <li>If the media is curled or wrinkled, solve the problem by referring to the description on the problem, The media is curled or wrinkled.</li> <li>Perform the daily maintenance. <ul style="list-style-type: none"> <li>* Do not forget to clean the media edge guards.</li> <li>* Be sure to perform the print head cleaning.</li> </ul> </li> <li>Clean the print heads surfaces with print sheet mount cleaning (  page 120).</li> </ol>
<p><b>[Symptom B]</b> During bidirectional printing, the order of ejected ink colors in the rightward direction differs from that in the leftward direction.</p>	<ol style="list-style-type: none"> <li>Change the print mode to be slower. *1 *2 *3</li> <li>Print in unidirectional mode. *2</li> <li>Use proven media.</li> </ol>
<p><b>[Symptom C]</b> The media advance adjustment value is incorrect.</p>	<ol style="list-style-type: none"> <li>Adjust the media advance adjustment value.</li> <li>Check that the media is correctly stretched between the paper roll and the pressure roller. <ul style="list-style-type: none"> <li>* If the media is loose when performing the media advance adjustment, the value will be incorrect.</li> <li>- The adjustment value differs depending on the winding mode, tension or loose.</li> <li>- Be sure to adjust the media advance adjustment value again after changing the suction fan setting.</li> <li>- Be sure to adjust the media advance adjustment value again after changing the pressure roller lever position.</li> <li>- If the ionizer (option) is set to ON, set it to OFF.</li> <li>- If automatic adjustment has been performed, perform manual adjustment.</li> </ul> </li> </ol>
<p><b>[Symptom C]</b> The media advance accuracy is poor, or is not stable.</p>	<ol style="list-style-type: none"> <li>Check that the media was installed properly in the conditions below. <ul style="list-style-type: none"> <li>- The installed media is installed parallel to the printer.</li> <li>- The operation panel shows the media type correctly.</li> <li>- The media winding mode is optimal for the installed media.</li> <li>- If the media is curled or wrinkled, see the description on the problem, The media is curled or wrinkled.</li> </ul> </li> <li>Adjust the pressure on the media with the pressure roller lever. *1</li> <li>Change the print mode to be slower. *1 *2</li> <li>Change the suction fan power. *1</li> <li>If the ionizer (option) is set to ON, set it to OFF.</li> </ol>

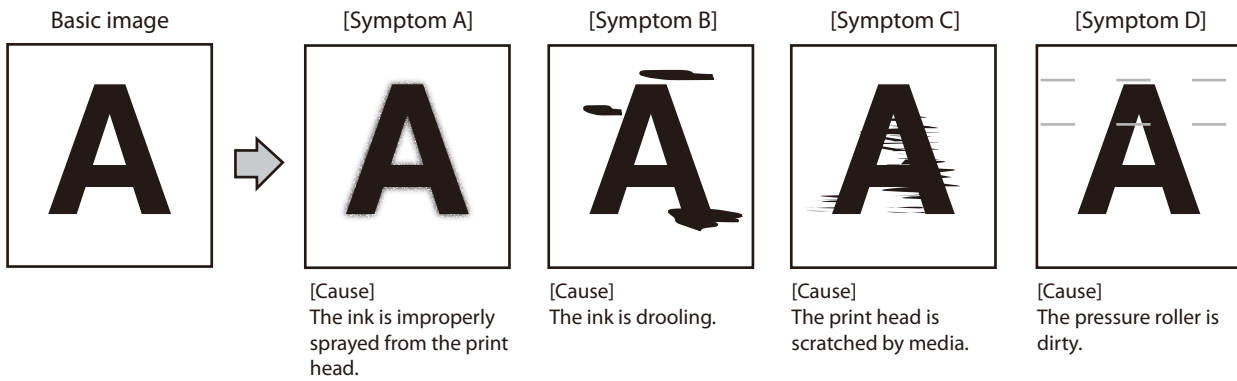
<p><b>[Symptom D]</b> The ink dries too slowly. (Mottling or bleeding occurs.)</p>	<p>(1) Increase the temperature of all three heaters by 5°C. *1 <b>* Before starting the print, ensure that the heater temperatures have been decreased to the target temperature.</b></p> <p>(2) Change to a more suitable print mode, or set the carriage speed to SLOW. *1 *2 *3</p> <p>(3) Print in unidirectional mode. *2</p> <p>(4) Use proven media.</p> <p>(5) With the RIP software, apply the profile with a low ink amount to be ejected. <b>* Note that the hue may change if the ejected ink amount decreases.</b></p>
--	--

\*1 Adjust the media advance adjustment value again.

\*2 Note that the print speed differs depending on the mode selected.

\*3 Be sure to adjust the bidirectional adjustment value again after changing the carriage speed.

## The printout is not clean.



Cause	Solution
<p><b>[Symptom A]</b> The ink is improperly ejected from the print heads.</p>	<ol style="list-style-type: none"> <li>(1) Use the printer within the operating temperature/humidity range.</li> <li>(2) Perform the daily maintenance. * Be sure to clean the head guard, media edge guards, carriage bottom surface, and the right and left sides of the top of the print heads.</li> <li>(3) Perform print head cleaning (STRONG).</li> <li>(4) Change to a more suitable print mode, or set the carriage speed to SLOW. *1 *2 *3</li> <li>(5) Clean the print heads surfaces with print sheet mount cleaning (  page 120).</li> <li>(6) If the print heads height setting is set to high, set it to normal. *4 * If problems occur with the media used when the print heads height setting is set to normal, set it to another option. (  page 165)</li> </ol>
<p><b>[Symptom B]</b> The ink dribbles.</p>	<ol style="list-style-type: none"> <li>(1) Use the printer within the operating temperature/humidity range.</li> <li>(2) Check for obstructions such as media lint or ink clot in the nozzle scanning path including the platen surface, and remove them.</li> <li>(3) If the media is curled or wrinkled, solve the problem by referring to the description on the problem, The media is curled or wrinkled.</li> <li>(4) Perform the daily maintenance. * Do not forget to clean the media edge guards. * Be sure to perform print head cleaning. * Be sure to clean the caps.</li> <li>(5) Clean the print heads surfaces with print sheet mount cleaning (  page 120).</li> <li>(6) With media that easily creates static electricity, the static electricity may cause the ink to dribble. With such media, set the ionizer (option) to ON. *1</li> <li>(7) With some banner media, light media edges may touches the print heads, which may cause the ink to dribble.</li> </ol>
<p><b>[Symptom C]</b> The print heads are scratched by the media.</p>	<ol style="list-style-type: none"> <li>(1) Check that the media was installed properly in the conditions below. <ul style="list-style-type: none"> <li>- The installed media is installed parallel to the printer.</li> <li>- The operation panel shows the media type correctly.</li> <li>- The media winding mode is optimal for the installed media.</li> <li>- If the media is curled or wrinkled, see the description on the problem, The media is curled or wrinkled.</li> </ul> </li> <li>(2) Check for obstructions such as media lint or ink clot in the nozzle scanning path including the platen surface, and remove them.</li> <li>(3) Perform the daily maintenance. * Do not forget to clean the media edge guards. * Be sure to perform print head cleaning.</li> <li>(4) Clean the print heads surfaces with print sheet mount cleaning (  page 120).</li> <li>(5) Set the suction fan parameter of the preset to a stronger setting. *1</li> <li>(6) If the ionizer (option) is set to ON, set it to OFF.</li> </ol>

---

**[Symptom D]**

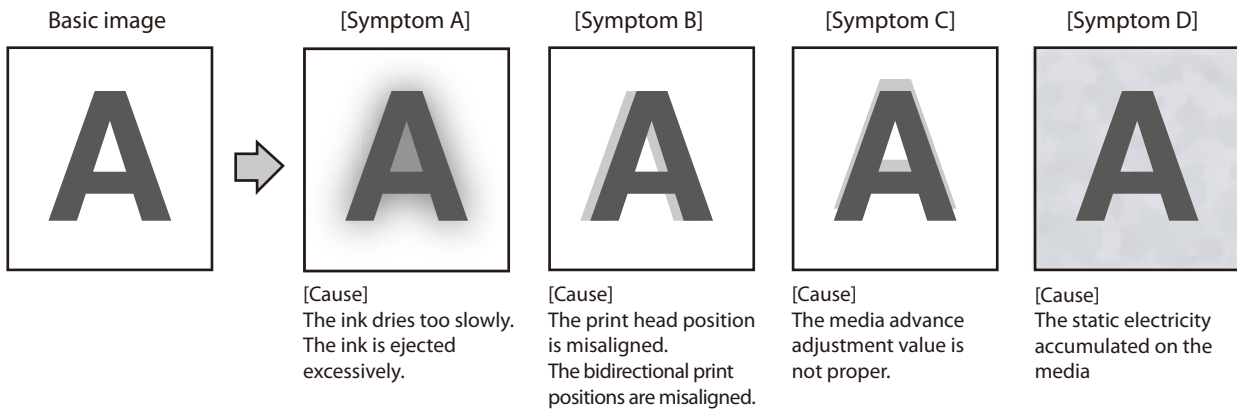
The pressure roller is dirty.

(1) Follow the procedure on  **page 116** to clean the pressure roller.

---

- \*1 Adjust the media advance adjustment value again.
- \*2 Note that the print speed differs depending on the mode selected.
- \*3 Be sure to adjust the bidirectional adjustment value again after changing the carriage speed.
- \*4 Adjust the bidirectional adjustment value again.

## Contours of objects are blurred.



Cause	Solution
<p><b>[Symptom A]</b> The ink dries too slowly. The ink is ejected excessively.</p>	<ol style="list-style-type: none"> <li>Decrease the temperature of all three heaters by 5°C. *1 * Before starting the print, ensure that the heater temperatures have been decreased to the target temperature.</li> <li>Change to a more suitable print mode, or set the carriage speed to SLOW. *1 *2 *3</li> <li>Print in unidirectional mode. *2</li> <li>If printing in high density, print in normal density.</li> <li>Use proven media.</li> <li>With the RIP software, apply the profile with a low ink amount to be ejected. * Note that the hue may change if the ejected ink amount decreases.</li> </ol>
<p><b>[Symptom B]</b> The print heads positions are misaligned. The bidirectional print positions are misaligned.</p>	<ol style="list-style-type: none"> <li>Adjust the print heads positions. (📖 page 75)</li> <li>Perform bidirectional adjustment. (📖 page 80)</li> <li>If bidirectional adjustment has been performed automatically, perform it again manually.</li> </ol>
<p><b>[Symptom C]</b> The media advance adjustment value is incorrect.</p>	<p>Correct the media advance adjustment value. If media advance adjustment has been performed automatically, perform it again manually.</p> <ul style="list-style-type: none"> <li>The adjustment value differs depending on the winding mode, tension or loose.</li> <li>Be sure to adjust the media advance adjustment value again after changing the suction fan power.</li> <li>Be sure to adjust the media advance adjustment value again after changing the pressure roller lever position.</li> <li>If the ionizer (option) is set to ON, set it to OFF.</li> <li>If automatic adjustment has been performed, perform manual adjustment.</li> </ul>
<p><b>[Symptom C]</b> The media advance accuracy is poor, or is not stable.</p>	<ol style="list-style-type: none"> <li>Check that the media was installed properly in the conditions below. <ul style="list-style-type: none"> <li>The installed media is installed parallel to the printer.</li> <li>The operation panel shows the media type correctly.</li> <li>The media winding mode is optimal for the installed media.</li> <li>If the media is curled or wrinkled, see the description on the problem, The media is curled or wrinkled.</li> </ul> </li> <li>Adjust the pressure on the media with the pressure roller lever. *1</li> <li>Change to a more suitable print mode, or set the carriage speed to SLOW. *1 *2 *3</li> <li>Check that the media is correctly stretched between the paper roll and the pressure roller. * If the media is loose when performing the media advance adjustment, the value will be incorrect.</li> <li>If the ionizer (option) is set to ON, set it to OFF.</li> </ol>

<b>[Symptom D]</b> Print defect caused by media static electricity / Ink sprayed over white portions of the media.	(1) Set the ionizer (option) to ON. *4 (2) Change to a more suitable print mode, or set the carriage speed to SLOW. *1 *2 *3 (3) Use proven media.
---	---

\*1 Adjust the media advance adjustment value again.

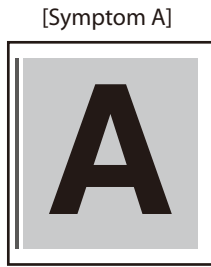
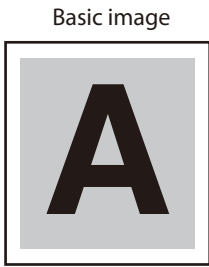
\*2 Note that the print speed differs depending on the mode selected.

\*3 Be sure to adjust the bidirectional adjustment value again after changing the carriage speed.

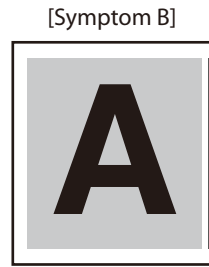
\*4 Set the ionizer to OFF with media where no print defects caused by static electricity occur.



**Vertical banding appears at the printout edges.**



[Cause]  
On the platen, the contacting point of the media left edge and the media edge guard is near the platen's vacuum hole.



[Cause]  
On the platen, the contacting point of the media right edge and the media edge guard is near the platen's vacuum hole.

Cause	Solution
<p><b>[Symptom A] [Symptom B]</b> When, on the platen, the contacting point between a media edge and the media edge guard is near a platen's vacuum hole, the printer may suck the ejected ink partially between the media and the media edge guard. As a result, vertical banding may appear.</p>	<p>Shift the media so that the contacting point between the media edge and the media edge guard on the platen does not come close to the vacuum hole.</p> <div style="text-align: center;"> <p>* Avoid the platen's vacuum hole for this area.</p> <p>The diagram shows a cross-section of the platen assembly. Labels include: Media, Media edge guard, Platen, and Vacuum hole. A double-headed arrow with an 'X' indicates the area to avoid. Three examples are shown below: 'An example of media position when a vertical banding appear' (media edge near vacuum hole), 'Example (1) of shifting the media position when a vertical banding appear' (media shifted left), and 'Example (2) of shifting the media position when a vertical banding appear' (media shifted right).</p> </div>

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

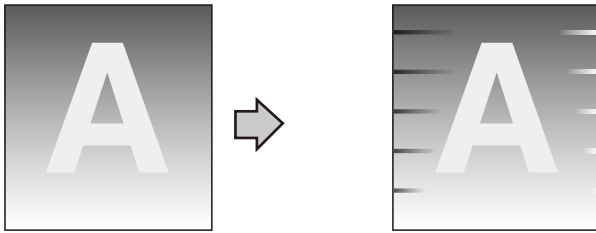
Troubleshooting

Menu tree


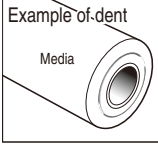
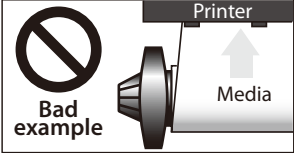
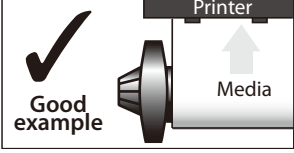
Appendix

## Different bands appear on the printout right and left sides.

Basic image



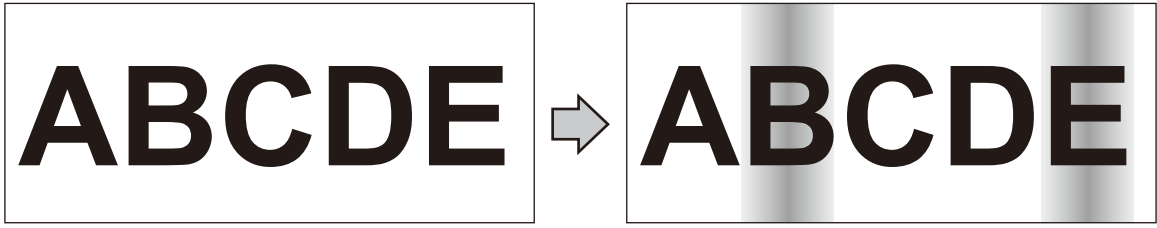
[Cause]  
The media is skewed.

Cause	Solution
<p>A skewed media is fed.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Example of skew Media</p> </div> <div style="text-align: center;">  <p>Example of dent Media</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>Bad example</p> </div> <div style="text-align: center;">  <p>Good example</p> </div> </div>	<ol style="list-style-type: none"> <li>(1) Check that the media condition is good. If the media roll is damaged or wound in the shape of a cone, replace the roll with a good one.</li> <li>(2) Check that the media was installed properly in the conditions below. <ul style="list-style-type: none"> <li>- The installed media is installed parallel to the printer.</li> <li>- The operation panel shows the media type correctly.</li> <li>- The media winding mode is optimal for the installed media.</li> <li>- If the media is curled or wrinkled, see the description on the problem, The media is curled or wrinkled.</li> </ul> </li> <li>(3) Check that the take up-side media shows no irregular winding. If an irregular winding is found, reinstall the media on the printer and onto the take-up reel unit.</li> <li>(4) Adjust the pressure on the media with the pressure roller lever. *1</li> <li>(5) Use proven media.</li> <li>(6) Check that the media holders on the supply side securely and firmly support the media.</li> <li>(7) Check that the media holders on the supply side are secured to the shaft with the screws.</li> </ol>

\*1 Adjust the media advance adjustment value again.

**Vertical bands appear on the printout.**

Basic image



- [Cause]
- The media advance adjustment value is not appropriate for the media used.
  - The media is curled or wrinkled.

Cause	Solution
The media advance adjustment value is not appropriate for the media used.	(1) Fine adjust the media advance adjustment value in the $\pm 0.3\%$ range. - If the action in (1) did not solve the problem, execute the following. (2) Change the print mode. *1 *2
The media is curled or wrinkled.	If the media is curled or wrinkled, refer to The media is curled or wrinkled and execute the appropriate actions.

\*1 Adjust the media advance adjustment value again.  
 \*2 Note that the print speed differs depending on the mode selected.

- Before printing
- Loading the media
- Adjustment
- Maintenance
- Advanced operations
- Troubleshooting
- Menu tree
- Appendix



Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

**Menu tree**

Appendix

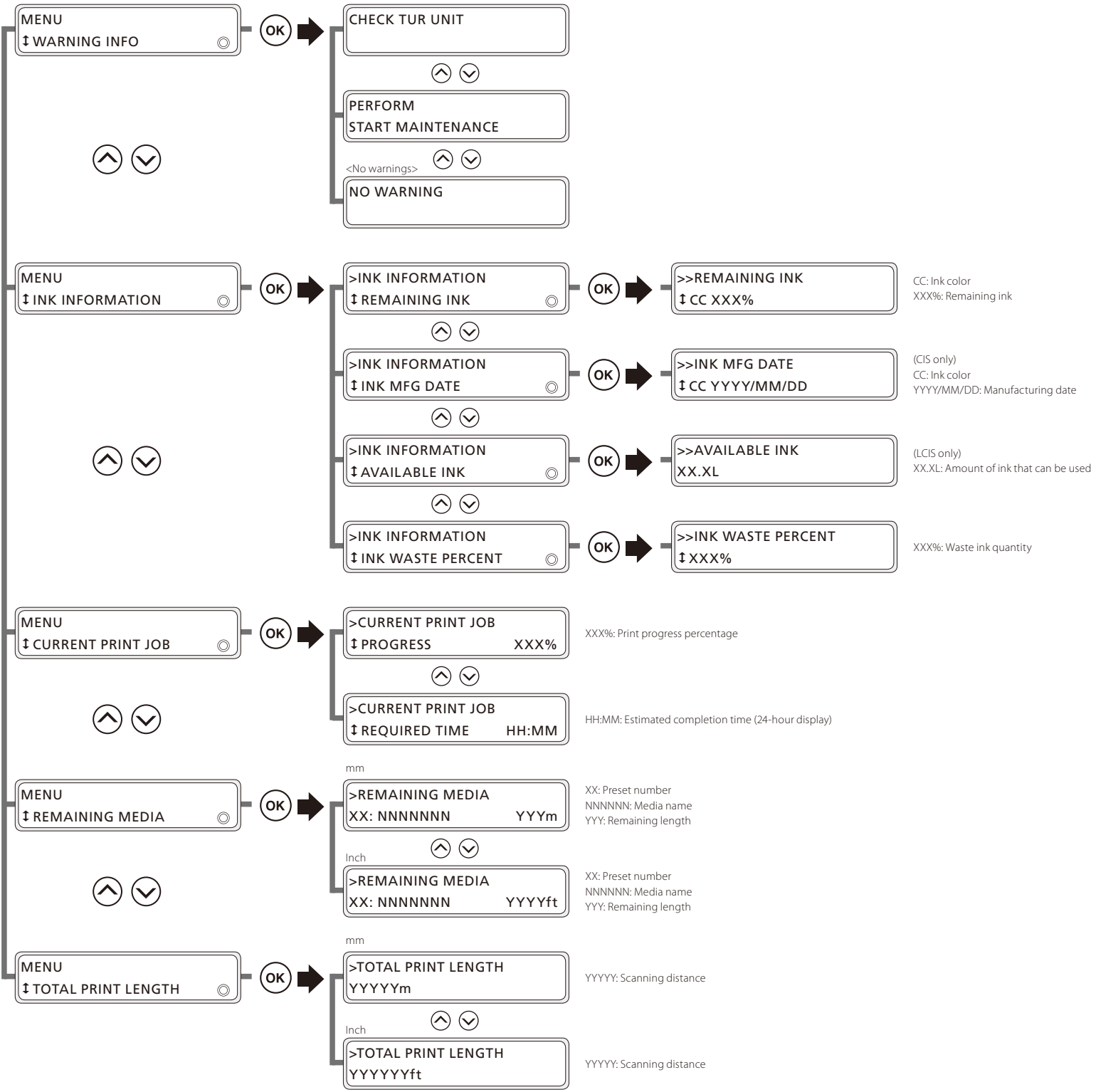
# Menu tree



MENU

PRINTING...  
STANDARD ND BI

MENU →  
(printing)



PRINTER READY  
01: PAPER / 1626mm

MENU →  
(not printing)

MENU  
↑ INFORMATION

OK →  
> INFORMATION  
↑ WARNING INFO

<Warning examples>  
CHECK MEDIA  
FOR WRINKLES

↑ ↓

PERFORM  
START MAINTENANCE

<No warnings>  
NO WARNING

>>> INK INFORMATION  
↑ REMAINING INK

>>> INK INFORMATION  
↑ INK MFG DATE

>>> INK INFORMATION  
↑ INK WASTE PERCENT

>>> INK INFORMATION  
↑ TOTAL USED INK

OK →  
>>> REMAINING INK  
↑ CC XXX%

CC: Ink color  
XXX%: Remaining ink

OK →  
>>> INK MFG DATE  
↑ CC YYYY/MM/DD

CC: Ink color  
YYYY/MM/DD: Manufacturing date

OK →  
>>> INK WASTE PERCENT  
↑ XXX%

XXX%: Waste ink quantity

OK →  
>>> TOTAL USED INK  
↑ CC 00000000

CC: Ink color

> INFORMATION  
↑ REMAINING MEDIA

mm  
> REMAINING MEDIA  
YYYm

YYY: Remaining length

Inch  
> REMAINING MEDIA  
YYYYft

YYY: Remaining length

> INFORMATION  
↑ TOTAL PRINT LENGTH

mm  
>> TOTAL PRINT LENGTH  
YYYYYm

YYYYY: Scanning distance

Inch  
>> TOTAL PRINT LENGTH  
YYYYYYft

YYYYYY: Scanning distance

> INFORMATION  
↑ MAINTENANCE INFO

>> MAINTENANCE INFO  
↑ MAINT EXECUT RATE

OK →  
>>> MAINT EXECUT RATE  
↑ XXX%

XXX points: Maintenance execution score

>> MAINTENANCE INFO  
↑ CLEANING DATE&TIME

OK →  
>>> CLEANING DATE&TIME  
↑ MM/DD hh:mm

MM/DD hh:mm: Cleaning execution date

> INFORMATION  
↑ VERSION INFO

>> VERSION INFO  
↑ BOOT X.XX

Displays boot version.

>> VERSION INFO  
↑ FIRMWARE X.XX\_YY

Displays firmware version.

A

A'

A''

Before printing

Loading the media

Adjustment

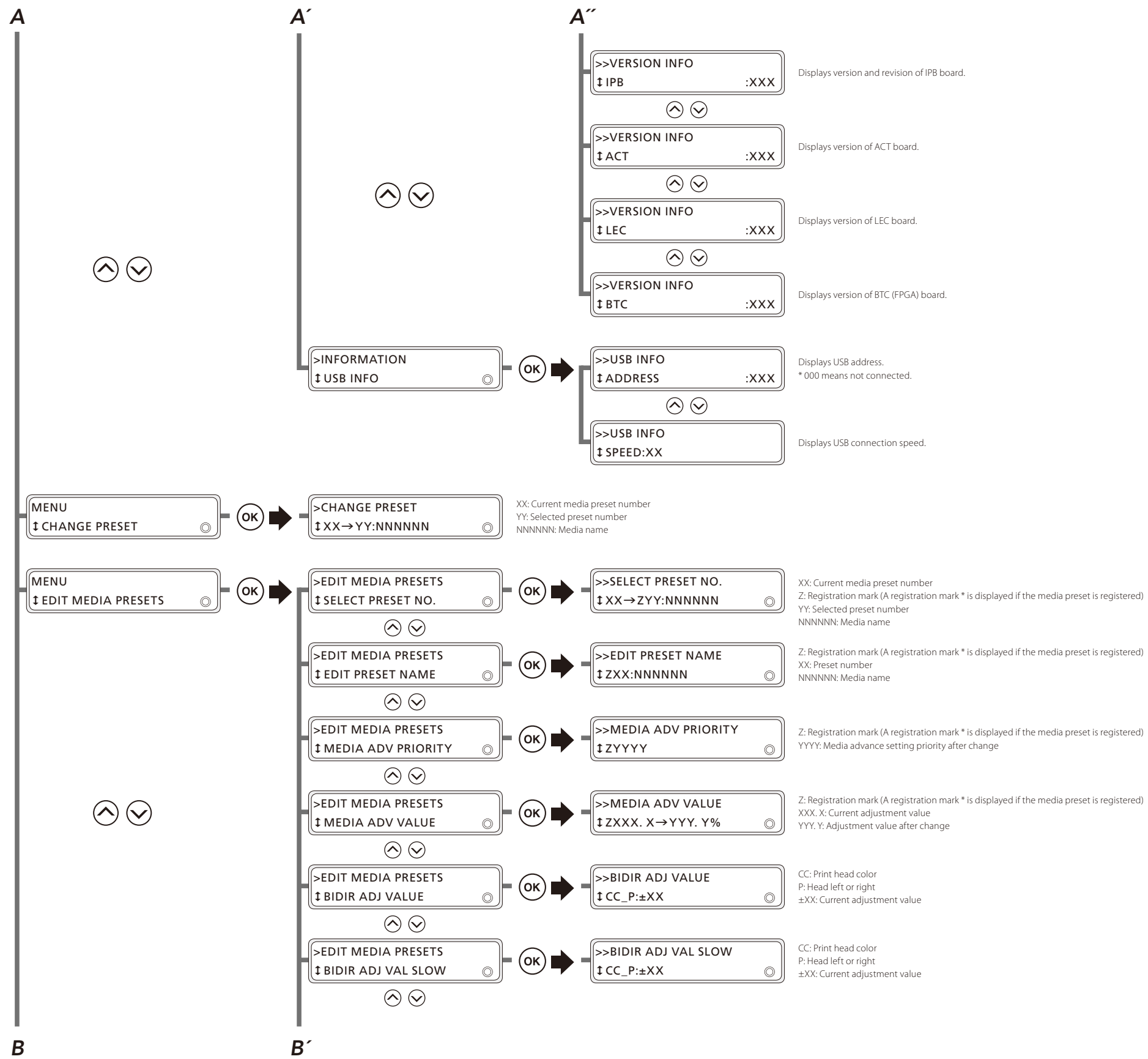
Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix





B

C



B'

C'

>EDIT MEDIA PRESETS  
↓ BIDIR ADJ VAL DET1



>>BIDIR ADJ VAL DET1  
↓ PRINT MODE:YYYYYYYY



>>PRINT MODE  
↓ ZYYYYYYYYY

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
YYYYYYYY: Current print mode setting  
UNDEFINED  
1:FAST PROD, PROD  
2:STRD, QUALITY  
3:HIG QUALITY  
4:MAX QUALITY  
5:FINE DETAIL



>>BIDIR ADJ VAL DET1  
↓ CARRIAGE SPEED:XXXXXXXX



>>CARRIAGE SPEED  
↓ ZXXXXXXXXX

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
XXXXXXXX: Current carriage speed setting  
NORMAL  
SLOW



>>BIDIR ADJ VAL DET1  
↓ CC\_P:±XX



CC: Print head color  
P: Head left or right  
±XX: Current adjustment value

>EDIT MEDIA PRESETS  
↓ BIDIR ADJ VAL DET2



>>BIDIR ADJ VAL DET2  
↓ PRINT MODE:YYYYYYYY



>>PRINT MODE  
↓ ZYYYYYYYYY

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
YYYYYYYY: Current print mode setting  
UNDEFINED  
1:FAST PROD, PROD  
2:STRD, QUALITY  
3:HIG QUALITY  
4:MAX QUALITY  
5:FINE DETAIL



>>BIDIR ADJ VAL DET2  
↓ CARRIAGE SPEED:XXXXXXXX



>>CARRIAGE SPEED  
↓ ZXXXXXXXXX

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
XXXXXXXX: Current carriage speed setting  
NORMAL  
SLOW



>>BIDIR ADJ VAL DET2  
↓ CC\_P:±XX



CC: Print head color  
P: Head left or right  
±XX: Current adjustment value

>EDIT MEDIA PRESETS  
↓ BIDIR ADJ VAL DET3



>>BIDIR ADJ VAL DET3  
↓ PRINT MODE:YYYYYYYY



>>PRINT MODE  
↓ ZYYYYYYYYY

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
YYYYYYYY: Current print mode setting  
UNDEFINED  
1:FAST PROD, PROD  
2:STRD, QUALITY  
3:HIG QUALITY  
4:MAX QUALITY  
5:FINE DETAIL



>>BIDIR ADJ VAL DET3  
↓ CARRIAGE SPEED:XXXXXXXX



>>CARRIAGE SPEED  
↓ ZXXXXXXXXX

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
XXXXXXXX: Current carriage speed setting  
NORMAL  
SLOW



>>BIDIR ADJ VAL DET3  
↓ CC\_P:±XX



CC: Print head color  
P: Head left or right  
±XX: Current adjustment value

>EDIT MEDIA PRESETS  
↓ BIDIR ADJ VAL DET4



>>BIDIR ADJ VAL DET4  
↓ PRINT MODE:YYYYYYYY



>>PRINT MODE  
↓ ZYYYYYYYYY

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
YYYYYYYY: Current print mode setting  
UNDEFINED  
1:FAST PROD, PROD  
2:STRD, QUALITY  
3:HIG QUALITY  
4:MAX QUALITY  
5:FINE DETAIL



>>BIDIR ADJ VAL DET4  
↓ CARRIAGE SPEED:XXXXXXXX



>>CARRIAGE SPEED  
↓ ZXXXXXXXXX

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
XXXXXXXX: Current carriage speed setting  
NORMAL  
SLOW



>>BIDIR ADJ VAL DET4  
↓ CC\_P:±XX



CC: Print head color  
P: Head left or right  
±XX: Current adjustment value

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

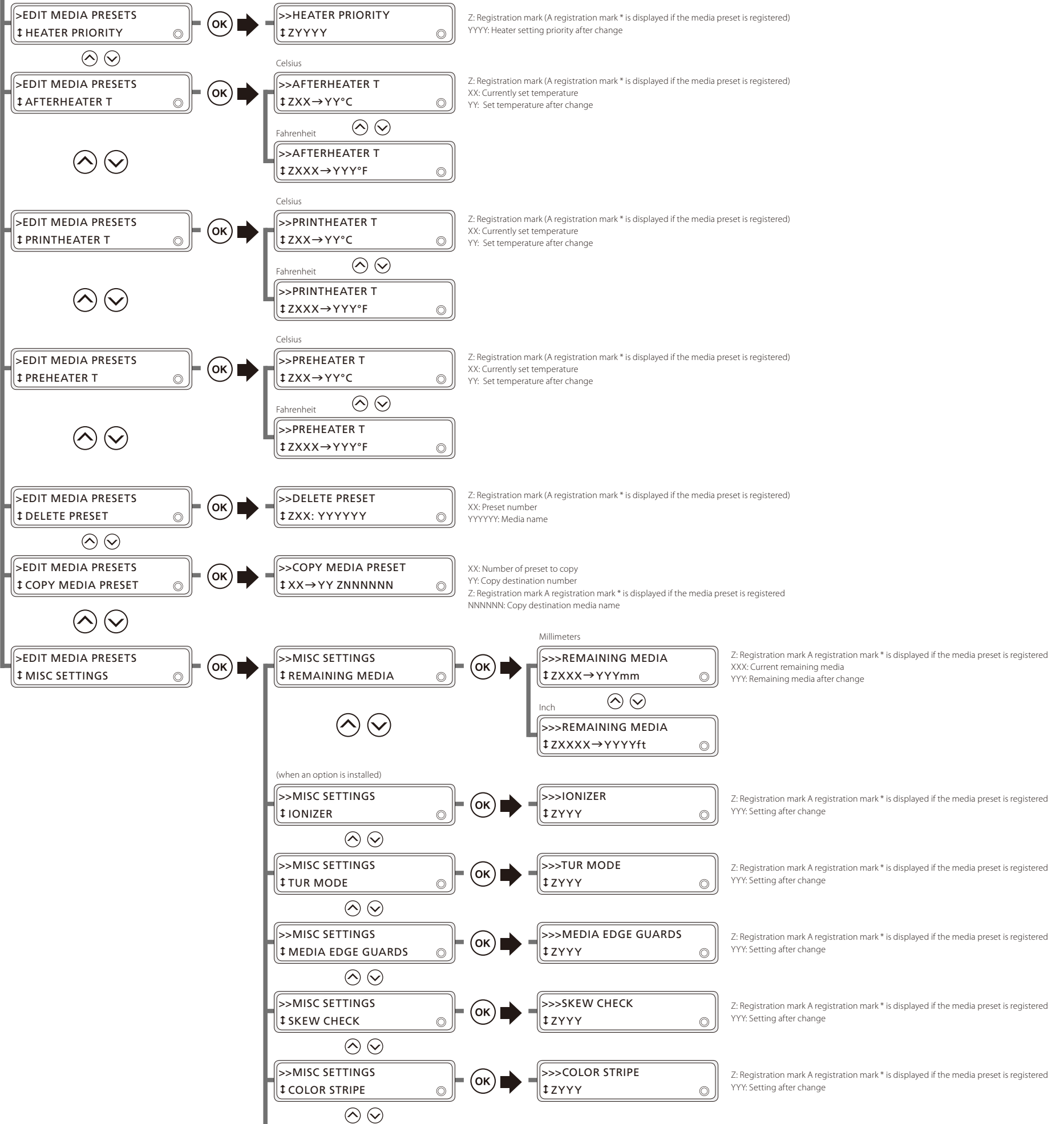
Appendix

C

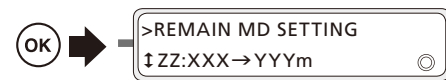
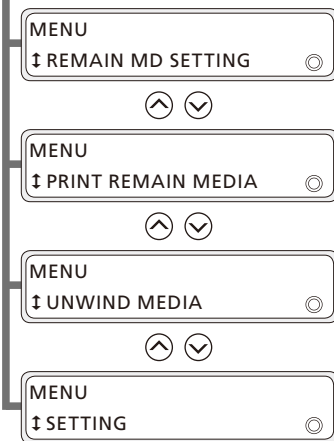
D

C'

D'



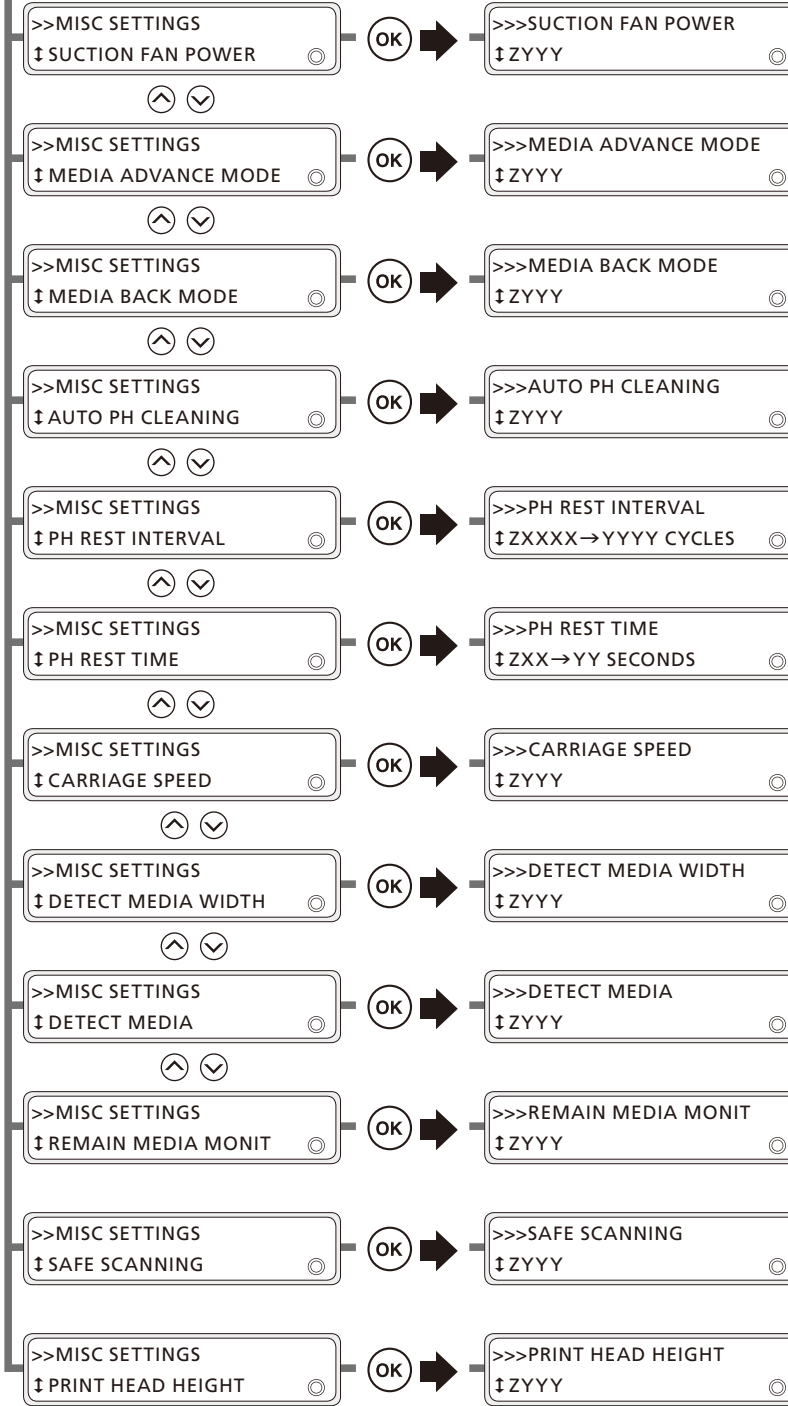
D



ZZ: Current media number  
 XXX: Current remaining media  
 YYY: Remaining media after change

E

D'



Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YYY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 XXX: Current setting  
 YYYY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 XXX: Current setting  
 YYYY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

Z: Registration mark A registration mark \* is displayed if the media preset is registered  
 YY: Setting after change

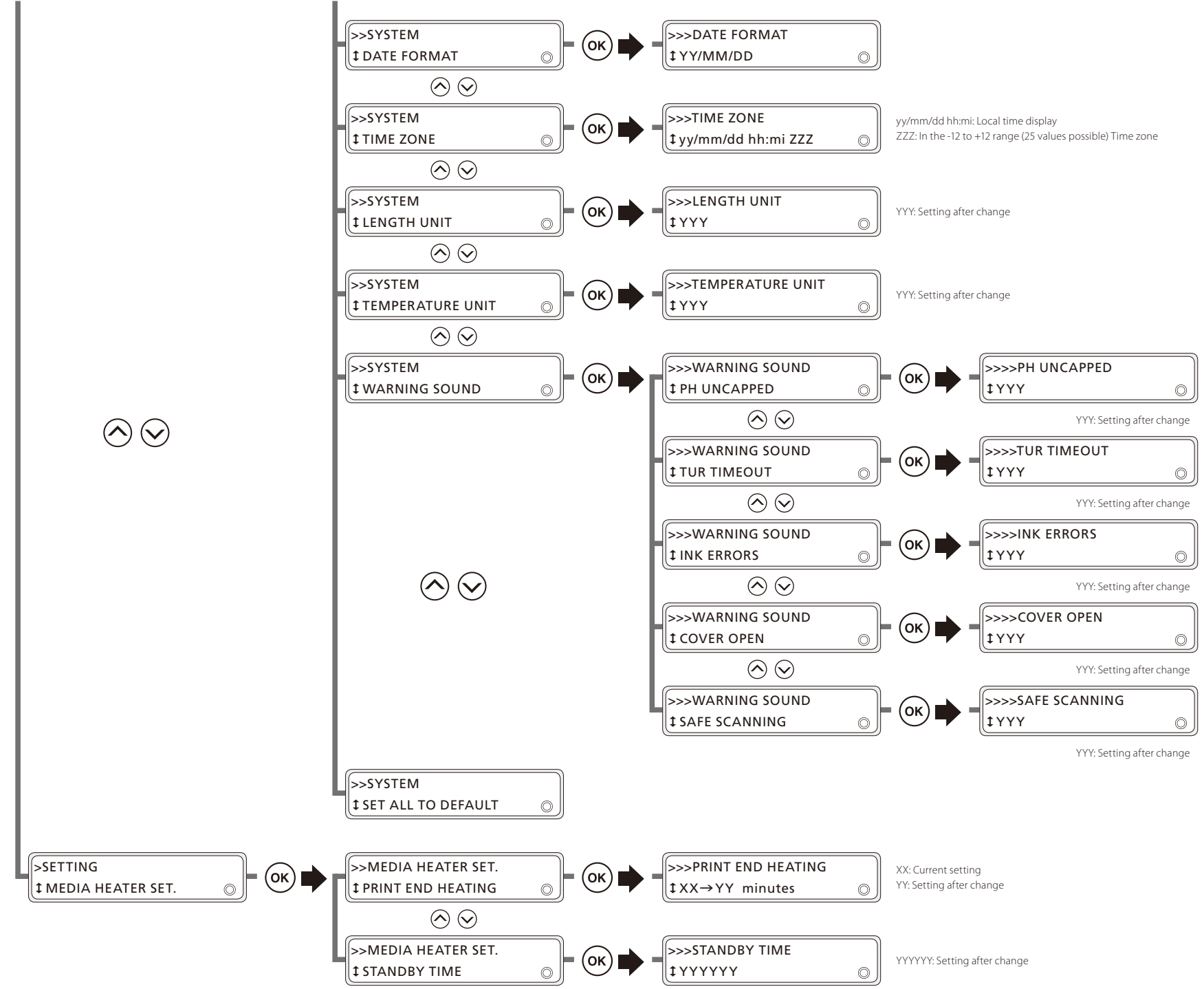
E'



YYYYYYYY: Language after change

E

E'



# ADJUST

PRINTER READY  
01: PAPER / 1626mm

ADJUST

ADJUST  
↓ MEDIA ADVANCE

OK

>MEDIA ADVANCE  
↓ MEDIA ADVANCE AUTO

⬆ ⬇

>MEDIA ADVANCE  
↓ MEDIA ADV MANUAL

OK

>>MEDIA ADV MANUAL  
↓ 1 PATTERN

⬆ ⬇

>>MEDIA ADV MANUAL  
↓ 3 PATTERNS

⬆ ⬇

>>MEDIA ADV MANUAL  
↓ FEED MEDIA

⬆ ⬇

>>MEDIA ADV MANUAL  
↓ BACK FEED MEDIA

>>MEDIA ADV MANUAL  
↓ MEDIA ADV VALUE

OK

>>> MEDIA ADV VALUE  
↓ ZXXX. XX→YYY. YY %

Z: Registration mark (A registration mark \* is displayed if the media preset is registered)  
XXX.XX: Current adjustment value  
YYY.YY: Adjustment value after change

⬆ ⬇

ADJUST  
↓ BIDIR POSITION

OK

>BIDIR POSITION  
↓ BIDIR AUTO

⬆ ⬇

>BIDIR POSITION  
↓ BIDIR MANUAL

OK

>>BIDIR AUTO  
↓ YYYYYYYYY

YYYYYYYY: Carriage speed  
CARRIAGE SPD NORM  
CARRIAGE SPD SLOW

>>BIDIR MANUAL  
↓ CARRIAGE SPD NORM

OK

>>>CARRIAGE SPD NORM  
↓ PRINT PATTERN

⬆ ⬇

>>>CARRIAGE SPD NORM  
↓ FEED MEDIA

⬆ ⬇

>>>CARRIAGE SPD NORM  
↓ BACK FEED MEDIA

⬆ ⬇

>>>CARRIAGE SPD NORM  
↓ CC\_P: ± XX

OK

>>>>BIDIR ADJ VALUE  
↓ ZCC\_P: XX→YY

CC: Print head color  
P: Head left or right  
XX: Current adjustment value

⬆ ⬇

⬆ ⬇

>>BIDIR MANUAL  
↓ CARRIAGE SPD SLOW

OK

>>>CARRIAGE SPD SLOW  
↓ PRINT PATTERN

⬆ ⬇

Same as CARRIAGE SPD NORMAL

F

Before printing

Loading the media

Adjustment

Maintenance

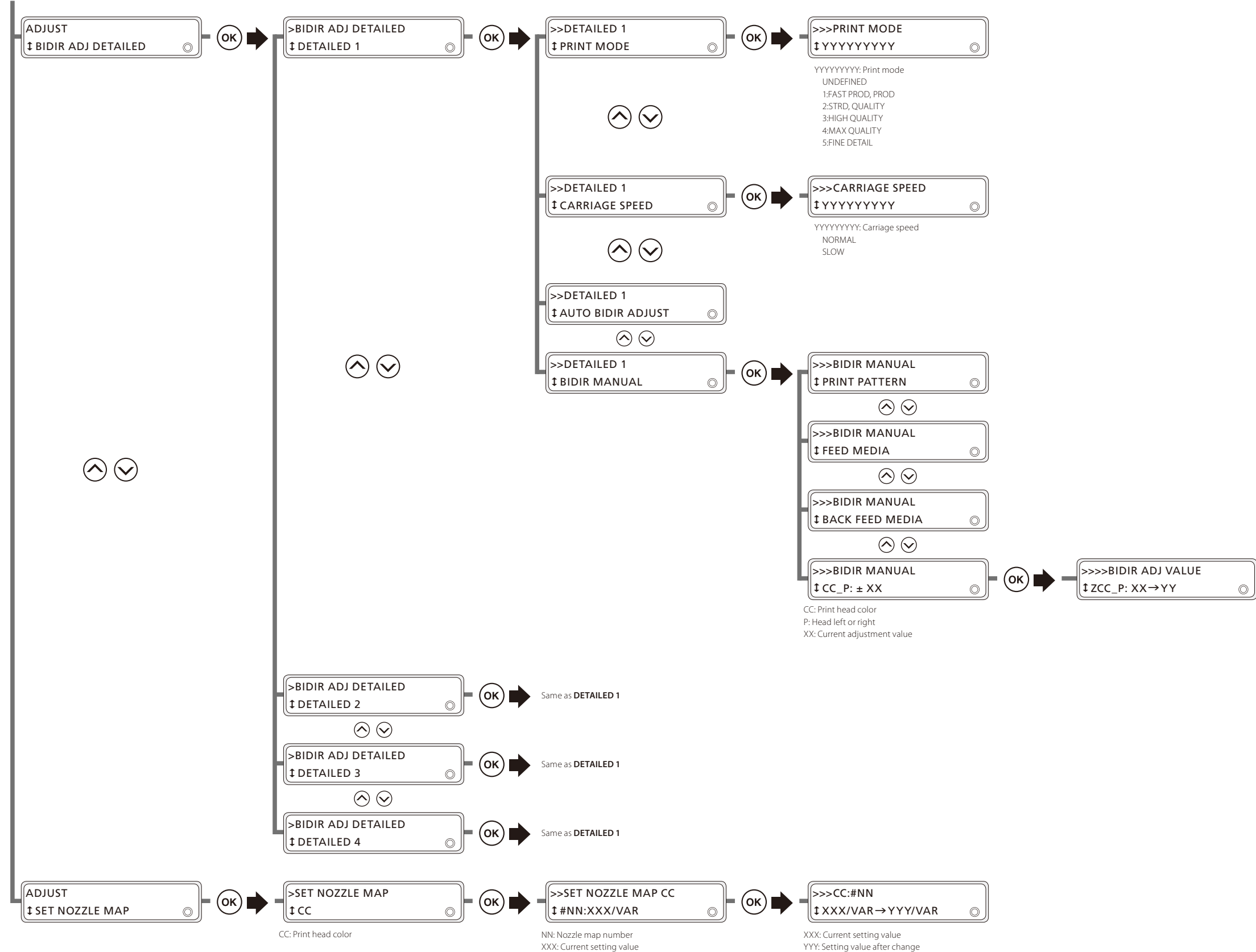
Advanced operations

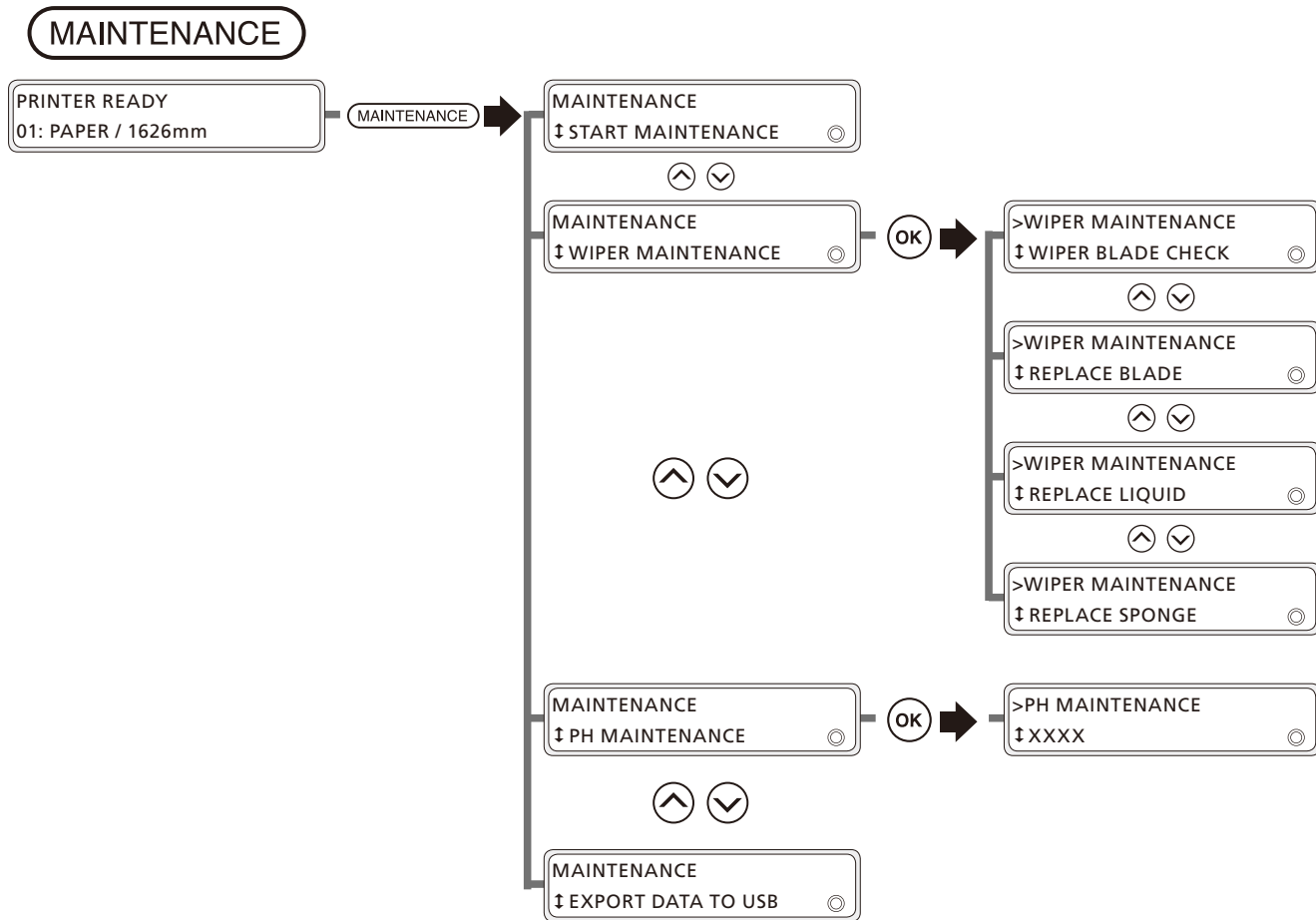
Troubleshooting

Menu tree

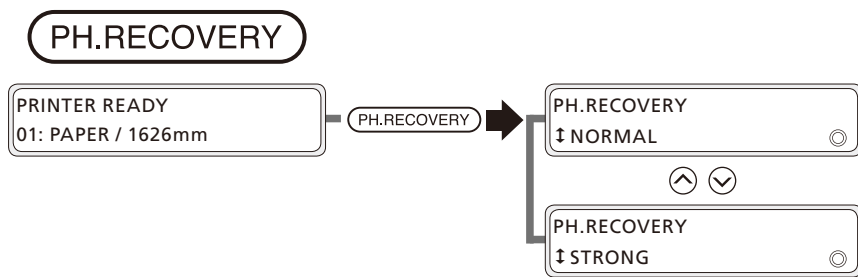
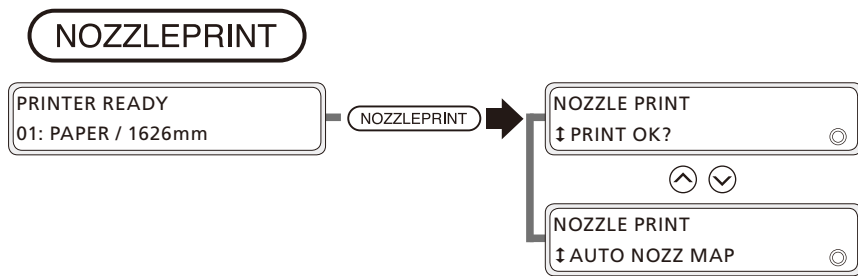
Appendix

F





XXXX: Maintenance type  
 SHEET MOUNT CLNING  
 CLEAN FOR STORAGE  
 CLEAN PH & INK SYS  
 PRIME INK SYSTEM  
 FILL CAP WITH INK  
 SET CAP FOR CLNG  
 CHANGE PH HEIGHT  
 SET PH FOR CHECK





# *Appendix*



# Basic specifications

Item	Specification / Function	
	IP-5630	IP-5530
Print method	Piezo-type color inkjet printing	
Resolution	(main scanning direction) x (subscanning direction) 360 dpi x 180 dpi x DDP, 360 dpi x 360 dpi x DDP, 540 dpi x 360 dpi x DDP, 540 dpi x 540 dpi x DDP, 720 dpi x 720 dpi, 900 dpi x 900 dpi, 1080 dpi x 1080 dpi	
Print speed	10.9 m <sup>2</sup> /h for 64-inch width at 6-pass bidirectional STANDARD mode	10.2 m <sup>2</sup> /h for 54-inch width at 6-pass bidirectional STANDARD mode
Media supply/take-up direction	Rear: Supply side, Front: Take-up side	
Media type	Vinyl/Banner/Backlit banner (FF)/Solvent printing coated paper	
Media width	Max. 64 inches (1626 mm)	Max. 54 inches (1372 mm)
Ink cartridge	Normal solvent ink (6 colors) (black, cyan, magenta, yellow, light cyan, light magenta) 500 ml for each color	
Interface	USB 2.0	
Noise	Standby: 50 dB (A) or less Operating: 60 dB (A) or less (continuous sound) excluding supply/take-up motor noise and ink filling noise	
Calorific power	4860 kJ/H	4140 kJ/H
Guaranteed print area	Area excluding top/bottom margins (5 mm) and right and left margins (5 mm) (When media edge guards are used, right and left margins are 10 mm.)	
Power supply voltage	AC120V 50Hz/60Hz 12A, AC220V-AC240V 50Hz/60Hz 6A	AC100 - 127V, 50Hz/60Hz 12A
Input power voltage range	AC110V-AC130V/AC200V-AC260V	AC90V-AC110V
Power consumption	1350 W or less	1150 W or less
External dimensions	2830 mm (W) x 830 mm (D) x 1255 mm (H) ± 10 mm	2576 mm (W) x 830 mm (D) x 1255 mm (H) ± 10 mm
Mass	228 kg ± 10 kg (excluding media and ink)	205 kg ± 10 kg (excluding media and ink)
Print guaranteed temperature/ humidity	20 to 25°C, 40 to 60% RH (no condensation)	
Operating temperature/humidity	15 to 30°C, 30 to 70% RH (no condensation)	
Storage temperature/humidity	5 to 35°C, 10 to 80% RH (no condensation)	
Installation space (W) x (D) x (H)	Min. 3630 x 3830 x 2200 mm	Min. 3380 x 3830 x 2200 mm
Maintenance space (W) x (D) x (H)	Min. 6630 x 3830 x 2200 mm	Min. 6380 x 3830 x 2200 mm

# Consumables

## Ink cartridge

One package contains one ink cartridge.

Type	Ink color	Quantity
IP5-221	Y (yellow)	500 ml
IP5-222	M (magenta)	500 ml
IP5-223	C (cyan)	500 ml
IP5-224	K (black)	500 ml
IP5-225	Lc (light cyan)	500 ml
IP5-226	Lm (light magenta)	500 ml

The type number may vary depending on the region. Contact your dealer for more information.

### WARNING

- ◆ The ink is combustible. Keep the ink away from open flames, sparks, or other sources of ignition.
- ◆ Do not swallow ink and avoid contact with the eyes to prevent breathing trouble or visual impairment. If ink gets into your eyes, wash it off with clean water and consult a doctor. If it is swallowed, do not try to induce vomiting, but consult a doctor.

### CAUTION

- ◆ Always use OKI Data specified ink cartridges. Failure to use the recommended ink cartridges may lead to a deterioration of the print quality or a printer malfunction. This may also invalidate your warranty.
- ◆ The ink validity period is 18 months from the date of production.
- ◆ Do not shake the ink cartridges before use.
- ◆ Set the ink cartridges in their cartridge holders and install cartridges in all the six slots. When removing a cartridge, always replace it with a new one.

## Waste ink bottle

Type	Content	Quantity
IP5-299	Waste ink bottle	1 piece

### WARNING

- ◆ The waste ink is combustible. Keep the waste ink bottle containing the waste ink away from open flames, sparks, or other sources of ignition.
- ◆ Do not swallow ink and avoid contact with the eyes to prevent breathing trouble or visual impairment. If ink gets into your eyes, wash it off with clean water and consult a doctor. If it is swallowed, do not try to induce vomiting, but consult a doctor.

### CAUTION

- ◆ A waste ink bottle must always be installed. When it is removed to dispose of waste ink, another empty waste ink bottle must be installed.

## Daily maintenance kit A

Type	Content	Quantity
IP5-280	Cap cleaning liquid A	100 ml
	Wiper cleaning liquid A	200 ml
	Cleaning swab	10 pieces
	Cleaning swab (Thick)	30 pieces
	Tweezers	1 pair
	Rubber blade	2 pieces
	Sponge blade	1 piece

## WARNING

- ◆ Do not swallow cleaning liquid and avoid contact with the eyes to prevent breathing trouble or visual impairment. If cleaning liquid gets into your eye, wash it off with clean water and consult a doctor. If it is swallowed, do not try to induce vomiting, but consult a doctor.

## Cap cleaning liquid A

Type	Content	Quantity
IP5-279	Cap cleaning liquid A (100 ml)	1 bottles

## Wiper cleaning liquid set A

Type	Content	Quantity
IP6-251	Wiper cleaning liquid A (200 ml)	3 bottles

## Cleaning swab

Type	Content	Quantity
IP6-147	Cleaning swab	300 pieces
	Bag	6 pieces

## Storage liquid set

Type	Content	Quantity
IP5-284	Storage liquid cartridge A	6 pieces

## CAUTION

- ◆ The expiration date of storage liquid cartridges A is 24 months after the date of production.
- ◆ Using storage liquid cartridges A whose expiration has passed may not only affect the print quality, but also cause the printer to malfunction.

## Cleaning liquid set

Type	Content	Quantity
IP5-285	Cleaning liquid cartridge A	6 pieces

## Wiper sponge

Type	Content	Quantity
IP5-282	Wiper sponge	1 pieces

## Wiper blade

Type	Content	Quantity
IP5-281	Rubber blade	2 pieces
	Sponge blade	1 piece

## Cleaning swab (Thick)

Type	Content	Quantity
IP7-264	Cleaning swab (Thick)	120 pieces

## Cartridge holder

Type	Content	Quantity
IP5-320	Cartridge holder	1 piece

## Glove set

Type	Content	Quantity
IP7-138	Gloves	100 pieces (50 pairs)

## Media cutter blade

Type	Content	Quantity
IP5-124	Media cutter blade	1 piece

## Sheet mount cleaning kit A

Type	Content	Quantity
IP5-283	Head cleaning sheet	12 sheets
	Cap cleaning sheet	12 sheets
	Sheet mount cleaning liquid A (100 ml)	2 piece
	Dropper	3 piece
	Gloves	24 pieces (12 pairs)

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

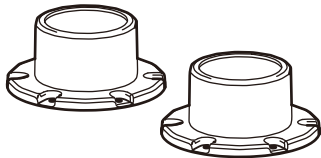
Menu tree

Appendix

# Options

## **Exhaust attachment (IP-265)**

An optional unit to attach an exhaust duct to the printer



## **Cutter unit (64) (IP5-262, for IP-5630 model)**

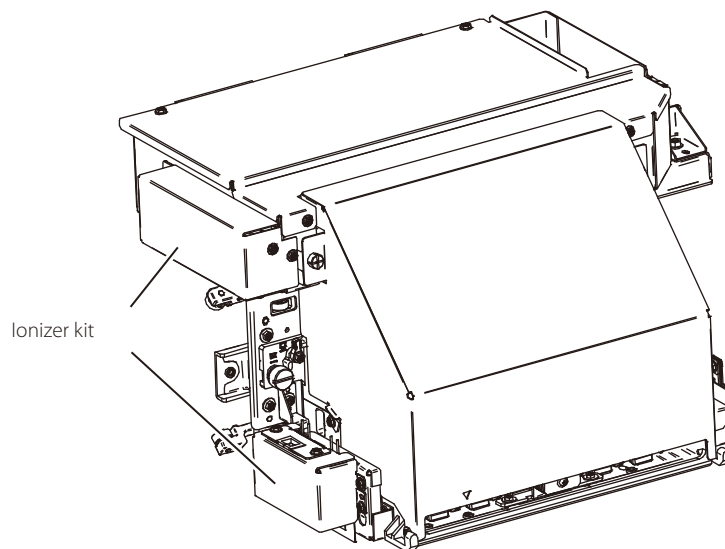
## **Cutter unit (54) (IP5-263, for IP-5530 model)**

This cutter unit is optional to cut the media.



## **Ionizer kit (IP5-254)**

An optional unit used to neutralize static electricity on the media and minimize quality problems caused by ink mist.



# Distributors

Contact the nearest service representative or your dealer for information about maintenance and repair services, and consumables.

## Contact Us

Italia	<a href="http://www.oki.com/it">www.oki.com/it</a>	Україна	<a href="http://www.oki.com/ua">www.oki.com/ua</a>
Français	<a href="http://www.oki.com/fr">www.oki.com/fr</a>	Türkiye'ye	<a href="http://www.oki.com/tr">www.oki.com/tr</a>
Deutschland	<a href="http://www.oki.com/de">www.oki.com/de</a>	Serbia	<a href="http://www.oki.com/rs">www.oki.com/rs</a>
United Kingdom	<a href="http://www.oki.com/uk">www.oki.com/uk</a>	Croatia	<a href="http://www.oki.com/hr">www.oki.com/hr</a>
Ireland	<a href="http://www.oki.com/ie">www.oki.com/ie</a>	Greece	<a href="http://www.oki.com/gr">www.oki.com/gr</a>
España	<a href="http://www.oki.com/es">www.oki.com/es</a>	Romania	<a href="http://www.oki.com/ro">www.oki.com/ro</a>
Portuguesa	<a href="http://www.oki.com/pt">www.oki.com/pt</a>	OKI Europe	<a href="http://www.oki.com/eu">www.oki.com/eu</a>
Sverige	<a href="http://www.oki.com/se">www.oki.com/se</a>	Singapore	<a href="http://www.oki.com/sg/">www.oki.com/sg/</a>
Danmark	<a href="http://www.oki.com/dk">www.oki.com/dk</a>	Malaysia	<a href="http://www.oki.com/my/">www.oki.com/my/</a>
Norge	<a href="http://www.oki.com/no">www.oki.com/no</a>	ประเทศไทย	<a href="http://www.oki.com/th/">www.oki.com/th/</a>
Suomi	<a href="http://www.oki.com/fi">www.oki.com/fi</a>	Australia	<a href="http://www.oki.com/au/">www.oki.com/au/</a>
Nederland	<a href="http://www.oki.com/nl">www.oki.com/nl</a>	New Zealand	<a href="http://www.oki.com/nz/">www.oki.com/nz/</a>
België/Belgique	<a href="http://www.oki.com/be">www.oki.com/be</a>	United States	<a href="http://www.oki.com/us/">www.oki.com/us/</a>
Österreich	<a href="http://www.oki.com/at">www.oki.com/at</a>	Canada	<a href="http://www.oki.com/ca/">www.oki.com/ca/</a>
Schweiz/Suisse/Svizzera	<a href="http://www.oki.com/ch">www.oki.com/ch</a>	Brasil	<a href="http://www.oki.com/br/printing/">www.oki.com/br/printing/</a>
Polska	<a href="http://www.oki.com/pl">www.oki.com/pl</a>	México	<a href="http://www.oki.com/mx/">www.oki.com/mx/</a>
Česká	<a href="http://www.oki.com/cz">www.oki.com/cz</a>	Argentina	<a href="http://www.oki.com/la/">www.oki.com/la/</a>
Slovenská	<a href="http://www.oki.com/sk">www.oki.com/sk</a>	Colombia	<a href="http://www.oki.com/la/">www.oki.com/la/</a>
Magyarország	<a href="http://www.oki.com/hu">www.oki.com/hu</a>	Other countries	<a href="http://www.oki.com/printing/">www.oki.com/printing/</a>
Россия	<a href="http://www.oki.com/ru">www.oki.com/ru</a>	China	<a href="http://www.oki.com/cn/printing/">www.oki.com/cn/printing/</a>

## Oki Data Corporation

4-11-22, Shibaura, Minato-ku, Tokyo  
108-8551, Japan

[www.oki.com/printing/](http://www.oki.com/printing/)

Before printing

Loading the media

Adjustment

Maintenance

Advanced operations

Troubleshooting

Menu tree

Appendix

