

Wide Format Solvent Inkjet Printer

IP-7900-20/21 IP-7700-20/21

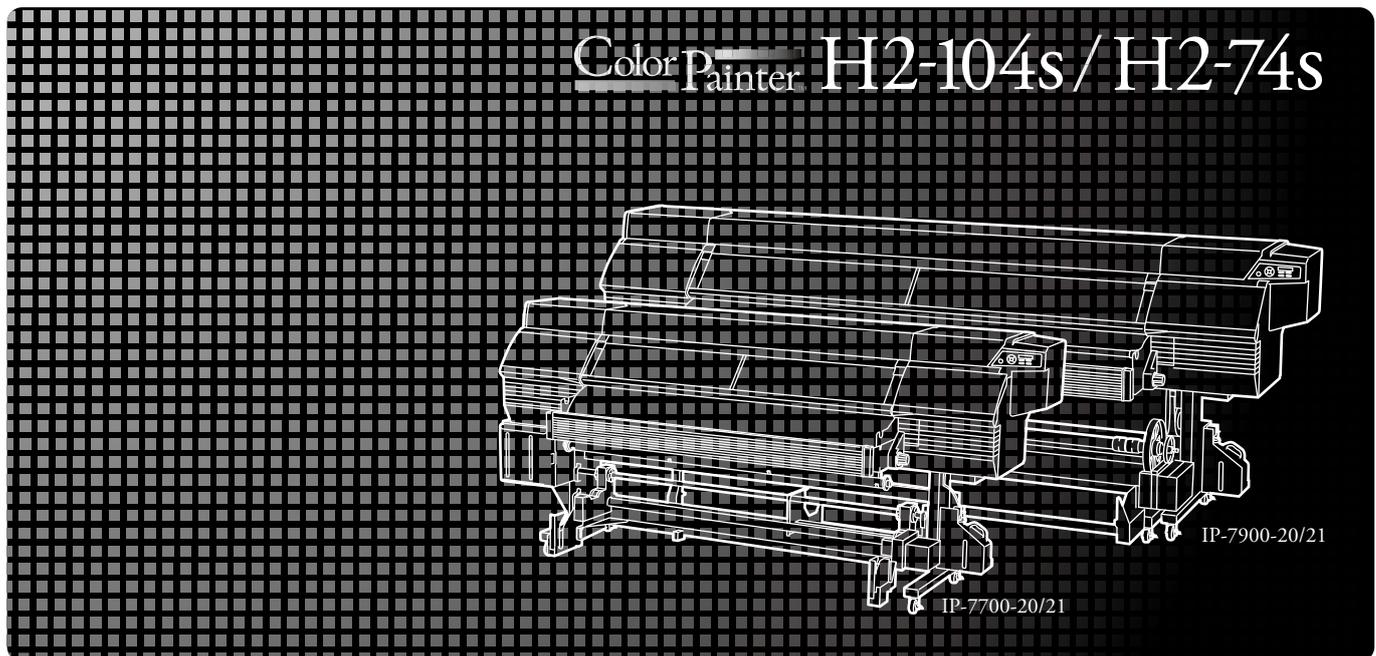
Basic Operation Guide

Read this User's Guide carefully before use of this printer and handle it properly.
After reading, keep it for later use.

U00125348503



Document number



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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 obliged 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-7700 and IP-7900 conform to the EMC directive, low voltage directive and RoHS Directive.

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Introduction

IP-7900-20/-21/IP-7700-20/-21 Wide Format Solvent Inkjet Printer (hereafter simply called the Printer.) is equipped with built-in USB interface that adopts solvent ink and supports media of up to 74-inch width.

The IP-7900-20/-21/IP-7700-20/-21 Wide Format Solvent Inkjet Printer Basic Operation Guide describes:

- The Printer's features and main components
- Information required for the operation
- Basic operations to turn the Printer on and off and to handle the media and ink system

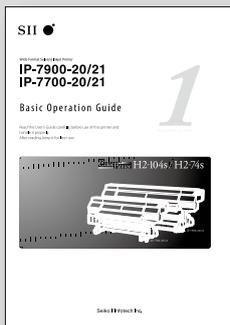
To operate the Printer safely and properly, before starting the operation be sure to read the following.

- **Safety precautions**
- **Delivery products**
- **Manual legend (notation rules)**

Keep this guide near the Printer so that you can quickly access it at any time.

Information described in this guide corresponds to operations with the Printer firmware version 3.50 or later and CP_Manager version 1.50 or later.

How do the two Guides work?



Basic Operation Guide

Read the Basic Operation Guide before your first Printer operation. This guide describes the basic handling and daily operation of media, printing, and maintenance.

To perform your first printing

 **page 26**

To print on other media

 **page 55**

To perform double-sided printing

 **page 62**

To perform the Printer's maintenance

 **page 66**

To replace the Printer's ink pack

 **page 116**

To replace the Printer's waste ink bottle

 **page 114**

To recover error messages

 **page 106**

To clear media jams

 **page 105**



Advanced Operation Guide

Read the Advanced Operation Guide so that you can operate the Printer effectively.

This Guide describes the Printer's fine setting and adjustment to maximize the Printer's performance.

To operate the Printer with fine settings

 **page 84**

To create a new media preset

 **page 26**

To clear banding, white lines, and bleeding

 **page 56**

To switch between 4-color and 8-color modes

 **page 71**

To turn the Printer off

 **page 8**

To print on cut-sheet media

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To change heater temperature while printing

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Safety precautions

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

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

Example of symbols :



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



This symbol (\otimes) denotes items that are forbidden.



This symbol (\bullet) denotes items you should follow to prevent accidents or injury.

General warning and cautions

General warnings



WARNING

Be sure to read warnings below before use.



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



Do not disassemble or repair the Printer by yourself. Do not reinstall the printer in a new location. Call your service representative.



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



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.



Always hold the power cord by the plug when connecting and disconnecting from the power outlet.
Never pull on the cord because this may damage it and create risk of fire and electric shock.



NEVER use the Printer in a place of extreme humidity or any place where it can possibly be splashed by any liquids. If any liquid gets into the Printer, it could lead to fire, electric shock, or a breakdown.



Do not use a conversion plug.



Do not allow metal or liquids to touch the internal parts of the Printer. Doing so 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.



Power 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) touches internal parts of the Printer.
- An error requiring service by a service representative occurs.



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



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.

- Immediately wash skin with soapy water.
- Use an approved eye wash station if ink is splashed into eyes and consult a doctor if necessary. If an approved eye wash station is unavailable, flush eyes with cold water and consult a doctor. Remove clothing soaked with ink from contact with skin.

Do not swallow ink. If swallowed, do not induce vomiting and 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 packs, subcartridges, and waste ink bottles out of the reach of children.

General cautions



CAUTION

Ensure to read cautions 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 and scrollers 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. Carrying with dolly is recommended.



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



NOTE

- 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.

Handling precautions

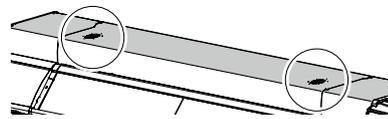
The precautions below are recommended to avoid damage to the Printer and its components.

Power supply

1. Install the Printer near the socket. To pull out the power plug in an emergency, the power socket must be reached easily.
2. Do not share the power supply with the 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 inserted into the socket securely.
 - No dust is accumulated between the plug terminals and 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. Especially be careful not to block the printer's exhaust outlet shown by the figure below.
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 control knob to "Open." Otherwise the printer operation is terminated.
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 smear may affect the Printer's surface painting.
5. Always use the OKI Data Infotech-specified attachments and options. The other products may degrade the image quality, damage the Printer, and disable the maintenance.
6. Never touch the print head nozzles. They can be easily damaged or clogged.



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 66](#).)

1. Perform the start maintenance every day before starting using the Printer.
2. Pay particularly attention to the items below.
 - Regularly replenish the wiper cleaning liquid and spittoon absorber liquid.
 - Once per month, clean the print heads using the head cleaning set (IP7-166).
 - Print heads are highly-precise parts. Do not wipe the nozzle surface directly.
3. If you leave the Printer off for more than 2 weeks, perform the service cleaning.
4. If, after the service cleaning, you leave the Printer for a long time and again you start the print operation with the Printer, be sure to perform the head wash and charge the ink system.

Consumables

1. OKI Data Infotech ink packs should be installed before the "Install By" date printed on the pack. The other ink may damage the Printer, and the Printer repair fee is borne by you.
2. In order to guarantee ink quality, ink expiration dates have been determined. Always use consumables before their expiration date, otherwise they may cause a malfunction.
3. Put used ink packs into a plastic bag and dispose of them as industrial waste. Observe local regulations for disposal of consumables.
4. Unpack the OKI Data Infotech ink pack package only when they are installed. Do not store OKI Data Infotech ink packs in direct sunlight. Store the OKI Data Infotech ink packs in a cool, dry place. This prevents deterioration of the ink during storage.
5. Do not disassemble the ink packs and subcartridges. They are intended for single use only.
6. Do not drop the ink packs and subcartridges. Avoid shock to them. The drop or shock may cause an ink leakage.

■ Supported media

The Printer supports the solvent inkjet media of the types below. Note that the print condition may change depending on the 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
- Backlit banner (FF)
- Solvent printing coated paper

■ Precautions on storing media

- ◇ At storing media, packed or unpacked, avoid direct sunlight and water stained. To avoid dust put the media into a box or a bag, and keep it in a cool and dark place.
- ◇ Avoid a rapid temperature change to prevent a dew condensation.
- ◇ Do not store media upright. The media stored upright may be deformed to be telescopic due to its weight, or may deform its edge.
- ◇ Do not pile up the roll media.
- ◇ Make sure the media rolls are secured when stored. They are heavy and may cause injury if they roll or fall.

■ Precautions on disposing of media

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

■ Precautions on using media

- ◇ Do not subject the unpacked media to the temperature and humidity change. Before loading the media on the Printer, leave the media in the operating environment for three hours or more. Note that the ambient humidity change may affect the media by turning on or off the air conditioner.
- ◇ The media may be curled in a lower temperature, and wrinkled in a higher temperature. Keep the temperature around 23°C and the humidity around 50% when you use the media.
- ◇ Do not use a part of media when the part is scratched, wrinkled, turned, or with obstructions. Never use the damaged media, as the right and left edges of the media are especially critical to feed media on the Printer. Besides, do not drop the media and avoid water stained, which may degrade the image quality, and cause the Printer's malfunction.
- ◇ Do not touch the printed image but the margin part. The image quality may be degraded by your insensible sebum and sweat.
- ◇ When the media is wound telescopically at loading on the Printer, correct the slippage before using.

■ Precautions on handling printouts

- ◇ Do not touch the printed surface of the media before the ink dries, or especially 24 hours after printed. Handle the printout by securing the margins.
- ◇ Do not scratch the printout to avoid the color lost or transferred. To avoid the printout's color transferred, do not put the printed media on the other printed media with their printed surface facing each other.
- ◇ Do not put the printed media on the printout from copier or laser printer. The printouts' ink or toner may stick the two printouts.
- ◇ Note that an ink on the printed surface may come off if the surface is rubbed hard or scratched.
- ◇ The printed image may bleed or be lost if the water-stained printout is scratched hard or left.

Other precautions

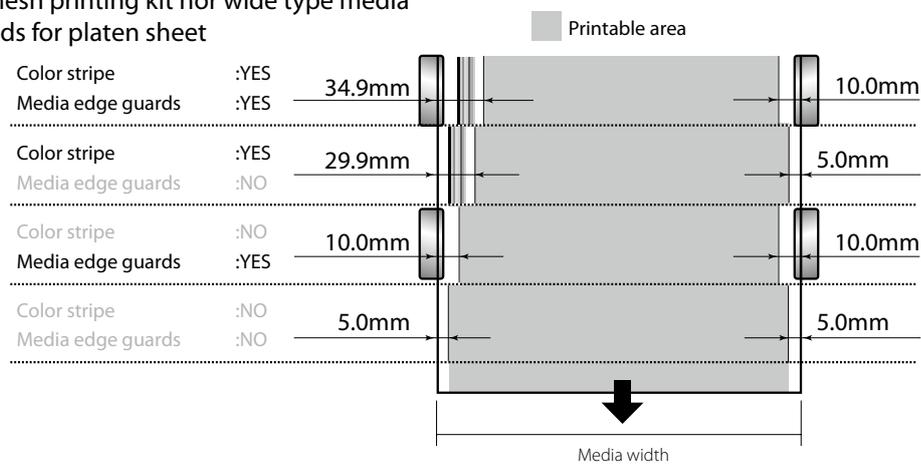
- ◇ Media loses its color and quality with age. Check the media condition and select the media with better condition.
- ◇ Cut the media carefully, as its paper dust may cause bubble surface at laminated.
- ◇ When adhesive-backed media is applied, some adhesive agent may be left on the platen, which may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

Available area on media

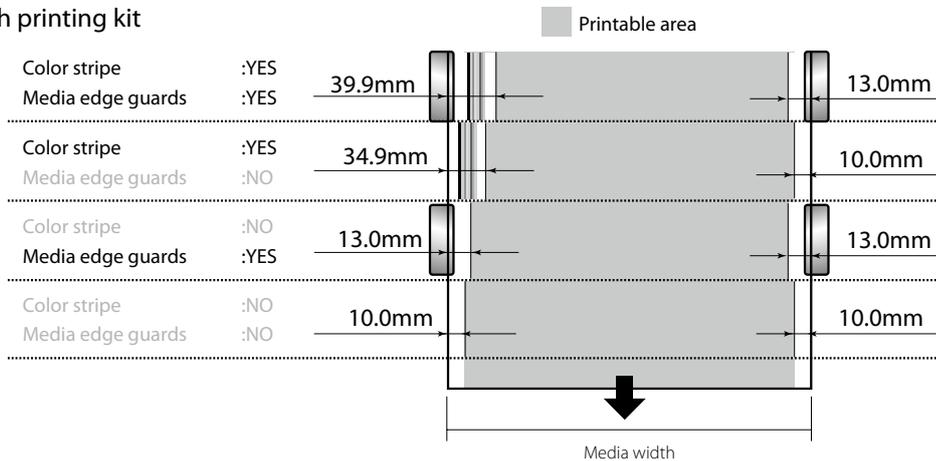
The available area on media in scanning direction depends on media width, media edge guards application, and stripe bar presence. With the media edge guards and stripe bar applied, your available area is decreased by 34.9mm in right and 10.0mm in left. The available are is decreased more when the optional product below is applied:

- Mesh printing kit; or
- Wide type media edge guards for platen sheet

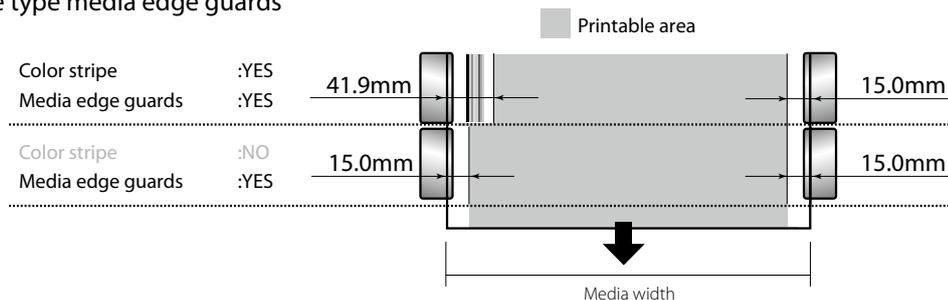
Without mesh printing kit nor wide type media edge guards for platen sheet



With mesh printing kit



With wide type media edge guards



Manual legend (Notational rules)

The notational rules such as marks, keys, LCD, and LEDs used for explanation in this guide are as follows:

Marks

WARNING

- Boxes marked with a "WARNING" describe points of caution for avoiding serious personal injury.

CAUTION

- Boxes marked with a "CAUTION" describe points of caution for avoiding injury to yourself or damage to the Printer.



TIP:

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

Reference mark

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

H2-104s
IP-7900

or

H2-104s **IP-7900**

: Operation specific to IP-7900-20/21

H2-74s
IP-7700

or

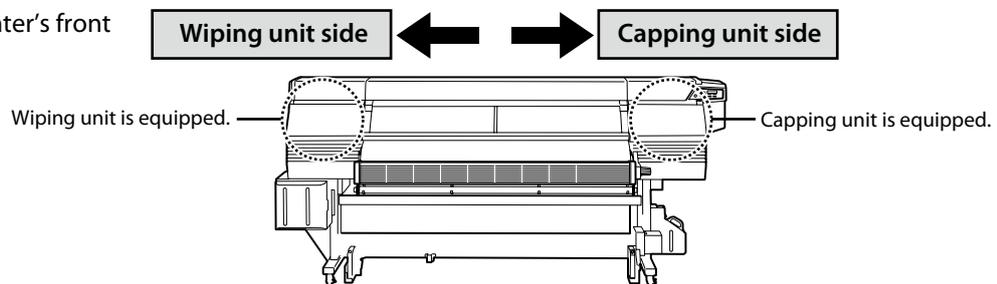
H2-74s **IP-7700**

: Operation specific to IP-7700-20/21

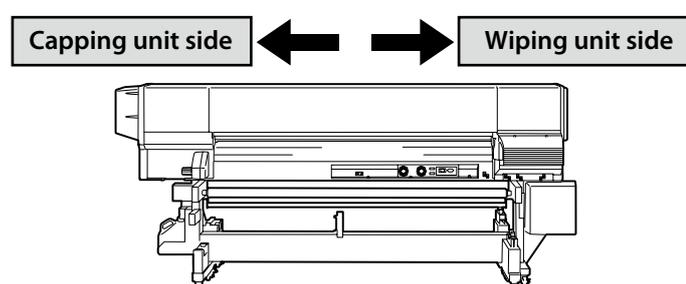
Capping unit side and wiping unit side

To identify the Printer's right and left, this guide mentions the capping unit side and wiping unit side as follows.

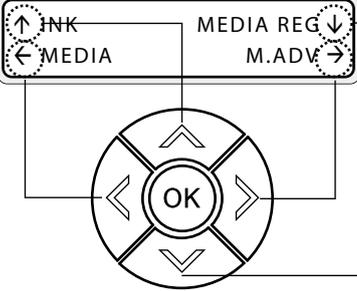
Viewed from the Printer's front
(media take-up side)



Viewed from the Printer's rear
(media supply side)



This is the example page for the operation guidance.

Shows the LCD on the operation panel.
 

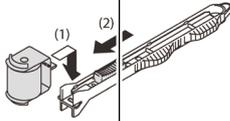
Clean the capping unit

CAUTION

To prevent the ink dried inside the print head's nozzles:

- Do not leave the Printer with the carriage detached from the capping unit.
- Within 5 minutes, complete the capping unit's cleaning operation and cap the print head.

1



Attach the cleaning roller to the cleaning stick.

2



Set the Printer to offline state and press the **MENU** key.



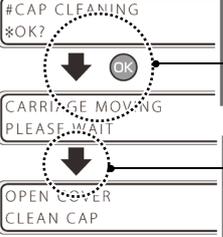
Press the **RIGHT** key.

3



Press the **OK** key.

4

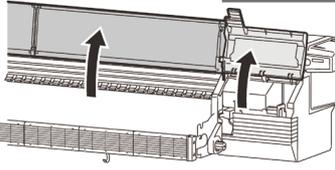


Shows that the LCD menu changes in the arrow direction with key operation.

Shows that the LCD menu automatically changes in the arrow direction without key operation.

audio warning beep.

5



Open the front cover and then open the cap cover.

Introduction

For your basic operation

Maintenance

When encountering a problem

Appendix

Operation Guide's quick index

The quick index on the right edge is a shortcut for users to access the target page.

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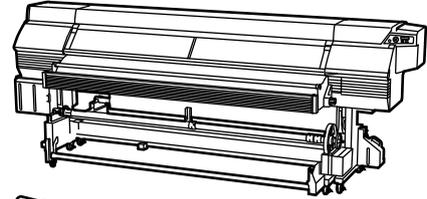
Components delivered with this product

The following components are delivered with the Printer, and installed to the Printer at the Printer installation, check that all the components below are delivered.

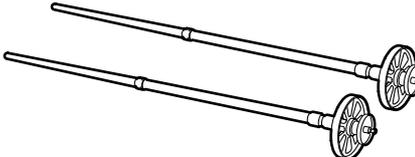
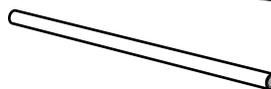
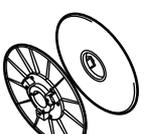
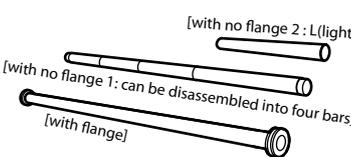
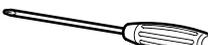
If any item is missing or damaged, contact your dealer from whom you purchased the Printer or the nearest service depot.

H2-104s
IP-7900

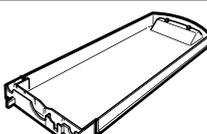
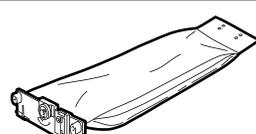
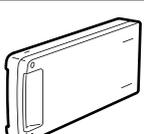
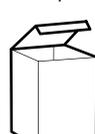
- **Printer** <1 unit>
 - with USB interface
 - with the feed unit and take-up reel unit



■ **Items packed with printer**

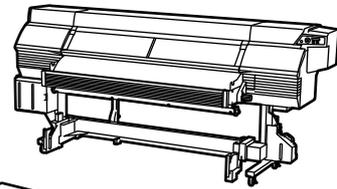
 Scroller <2 pieces>	 Roll media (for adjustment) <1 piece>	 104-inch paper tube (for take-up reel unit) <1 piece>
 Paper tube flange <2 pieces>	 Rubber spacer A,B,C <1 piece from each>	 Fixing ring <2 pieces>
 Paper setting gauge <1 piece>	 Tension bar (with flange: 1 piece) (with no flange 1 S: 2, M: 1, L: 1) (with no flange 2 L (light): 1) <3 pieces>	 Tension bar flange <2 pieces>
 Tension bar flange with screw <1 set>	 Tension bar joint <2 pieces>	 Phillips screwdriver
 Waste ink bottle IP6-109 <1 bottle>		

■ **Accessories**

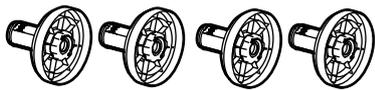
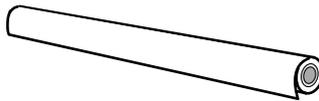
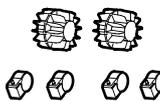
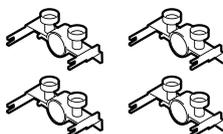
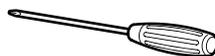
 Power cable <2 pieces>	 USB 2.0 cable <1 piece>	 Ink tray IP7-123 <8 pieces>	 Dummy pack <8 pieces>	 Subcartridge <8 pieces>
 Dust filter <1 roll>	 Wiper cleaning liquid <1 set> Wiper cleaning liquid (300 ml) : 2 bottles	 Spittoon absorber liquid <1 set> Spittoon absorber liquid (300 ml) : 1 bottles	 Wiper cleaning liquid purging set (Required at the Printer relocation.)	 Daily maintenance kit IP7-130 <1 set>
 Exhaust fan filter <12 pieces>	 Basic Operation Guide (this guide) <1 volume>	 Advanced Operation Guide <1 volume>	 Quick reference guide <1 volume>	 Installation procedure guide <1 volume>
	 CD-ROM <1 volume>			<ul style="list-style-type: none"> • Cap cleaning liquid : 300 ml • Wiper cleaning liquid : 200 ml • Spittoon absorber liquid : 100 ml • Cleaning roller : 30 pieces • Cleaning swab : 10 pieces • Dripper : 10 pieces • Tweezers : 1 piece • Cleaning stick : 1 piece • Spittoon case : 1 piece • Gloves : 30 pairs • Bac : 1 piece

H2-74s IP-7700

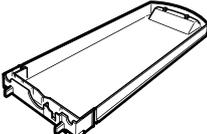
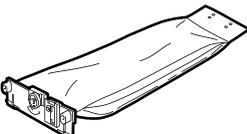
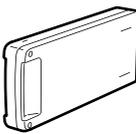
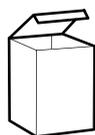
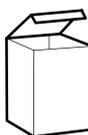
■ **Printer** <1 unit>
 - with USB interface
 - with the feed unit and take-up reel unit



■ Items packed with printer

 Scroller flange <4 pieces>	 Roll media (for adjustment) <1 piece>	 64-inch paper tube (for take-up reel unit) <1 piece>
 Flange spacer <1 piece>	 Scroller shaft <2 pieces>	 Roll spacer <2 pieces> (with four fixtures)
 Flange shaft fixture <4 pieces>	 Tension bar flange <2 pieces>	 Waste ink bottle IP6-109 <1 bottle>
 Tension bar (with flange: 1 piece) (with no flange 1 S: 2, ML: 1, L: 1) (with no flange 2 L (light): 1) <3 pieces>	 Fixing ring <2 pieces>	 Flange holder <1 piece>
 Tension bar joint <2 pieces>	 Tension bar flange with screw <1 set>	 Phillips screwdriver

■ Accessories

 Power cable <2 pieces>	 USB 2.0 cable <1 piece>	 Ink tray IP7-123 <8 pieces>	 Dummy pack <8 pieces>	 Subcartridge <8 pieces>
 Dust filter <1 roll>	 Wiper cleaning liquid <1 set> Wiper cleaning liquid (300 ml) : 2 bottles	 Spittoon absorber liquid <1 set> Spittoon absorber liquid(300 ml) : 1 bottles	 Wiper cleaning liquid purging set (Required at the Printer relocation.)	 Daily maintenance kit IP7-130 <1 set>
 Exhaust fan filter <12 pieces>	 Basic Operation Guide (this guide) <1 volume>	 Advanced Operation Guide <1 volume>	 Quick reference guide <1 volume>	 Installation procedure guide <1 volume>
	 CD-ROM <1 volume>	<ul style="list-style-type: none"> • Cap cleaning liquid : 300 ml • Wiper cleaning liquid : 200 ml • Spittoon absorber liquid : 100 ml • Cleaning roller : 30 pieces • Cleaning swab : 10 pieces • Dripper : 10 pieces • Tweezers : 1 piece • Cleaning stick : 1 piece • Spittoon case : 1 piece • Gloves : 30 pairs • Bag : 1 piece 		

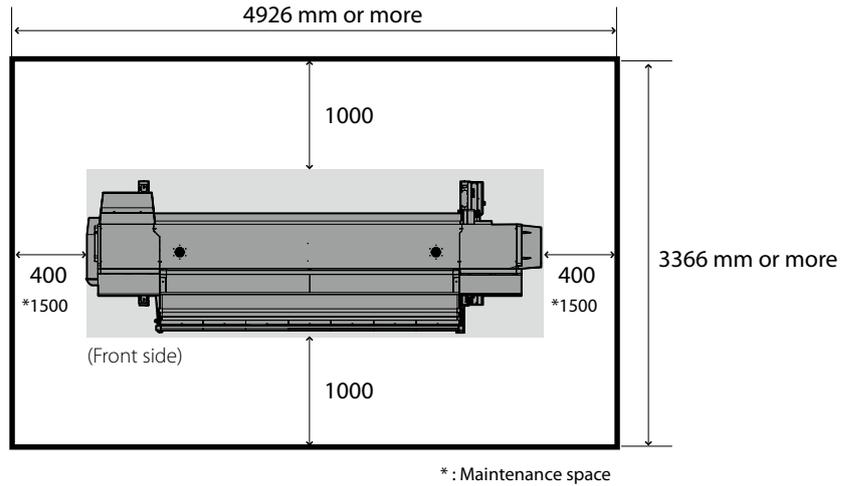
Operating conditions

Installation and maintenance space

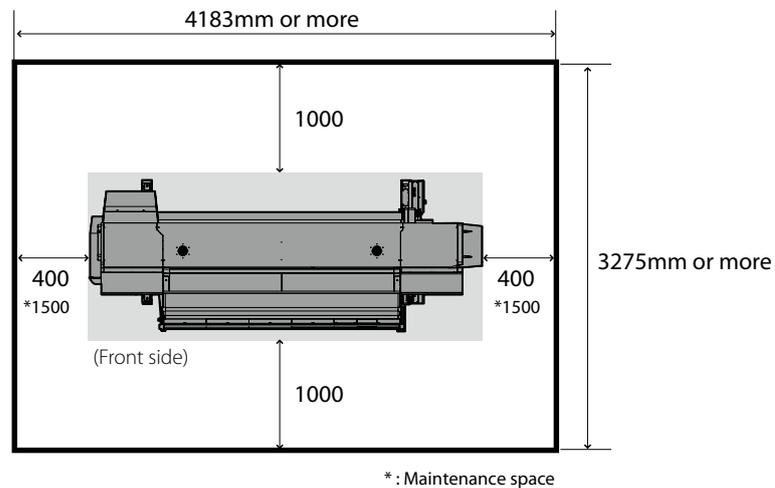
Adequate space is required around the Printer for supplies replacement of consumables and parts, print processing, and ventilation during normal operation and maintenance.

Keep the space shown in the figure below.

H2-104s IP-7900



H2-74s IP-7700



Secure 2200 mm in horizontal direction.
(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). The print speed may decrease when the temperature is below 20°C.
- ◇ To ensure a stable and good print quality, the Printer slows down the print speed when the head temperature exceeds 40°C (104°F).

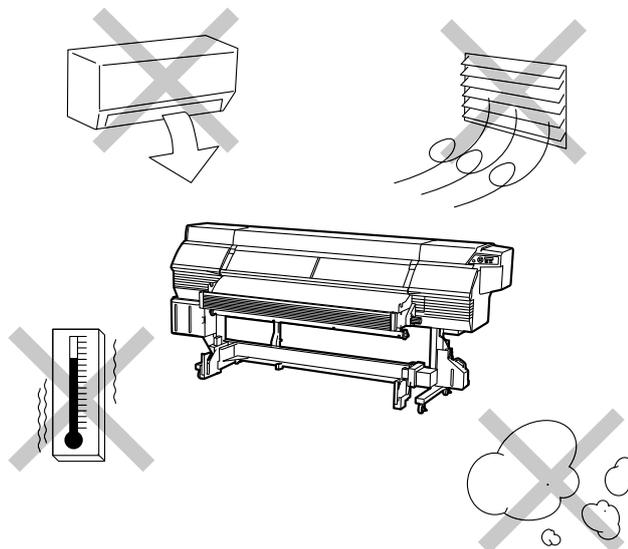
NOTE

- If the Printer is not used at the operating temperature and humidity ranges, the print may be stopped or the print quality may be degraded.
- It takes time for the Printer to reach the operating environment temperature and humidity.
- To ensure good print image quality, it is recommended to keep the room temperature 20 to 25°C, 68 to 77°F and use the Printer after 1 hour.

■ Places where the Printer must not be installed

Do not install the Printer in the following places.

- ◇ Places near 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



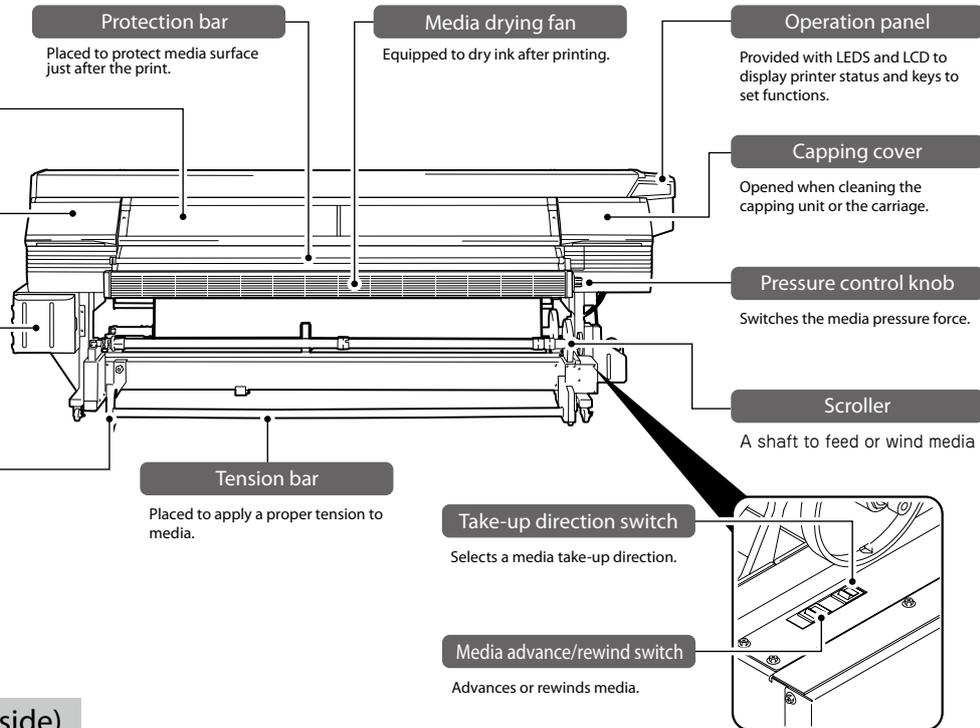


Appearance / Main components and their functions

Printer front (take-up side)

H2-104s
IP-7900

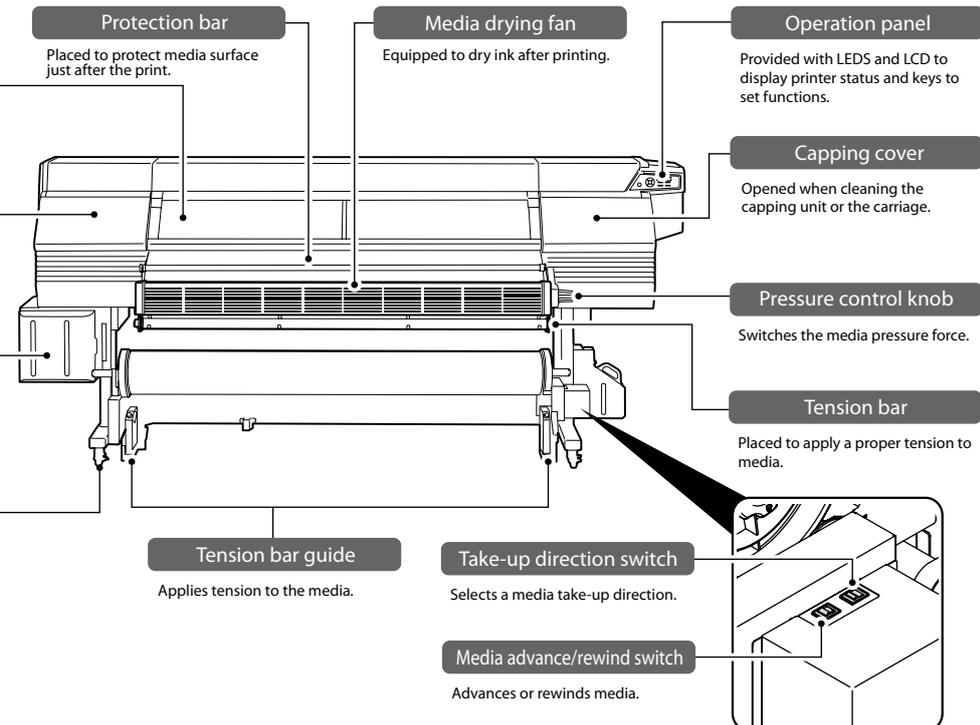
- Front cover**
Must be closed during printing.
- Wiping cover**
Opened when replacing the wiper blade.
- Ink box cover**
An inlet to set ink (Note: Displayed as "INK COVER" on the LCD.)
- Tension bar guide**
Applies tension to the media.



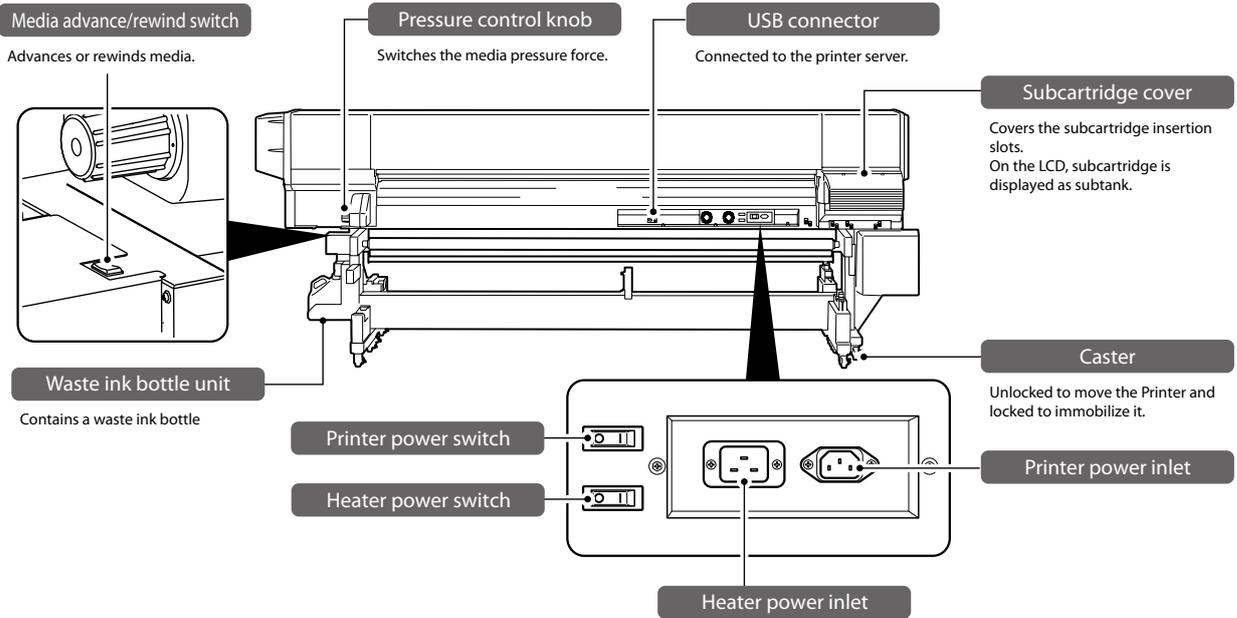
Printer rear (supply side)

H2-74s
IP-7700

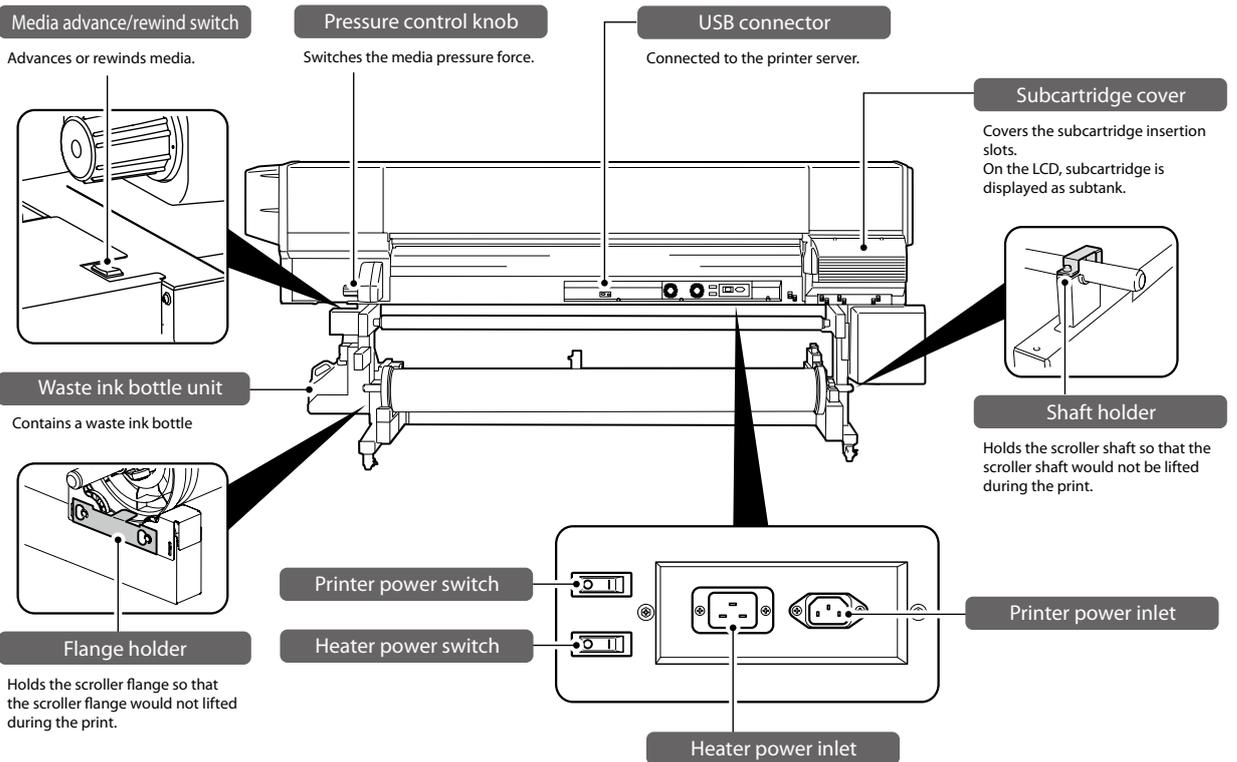
- Front cover**
Must be closed during printing.
- Wiping cover**
Opened when replacing the wiper blade.
- Ink box cover**
An inlet to set ink (Note: Displayed as "INK COVER" on the LCD.)
- Caster**
Unlocked to move the Printer and locked to immobilize it.



H2-104s IP-7900



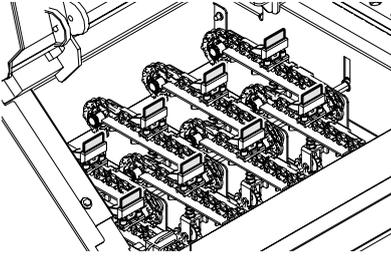
H2-74s IP-7700



Printer interior

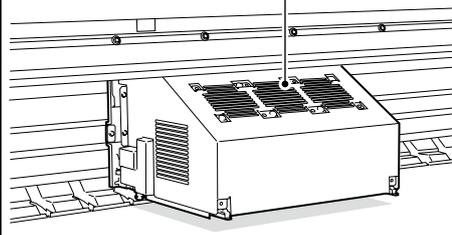
Wiping unit

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



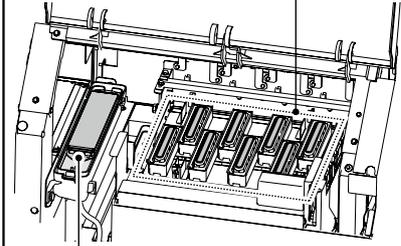
Carriage

Houses the print heads inside, and prints image with scanning media.



Capping unit

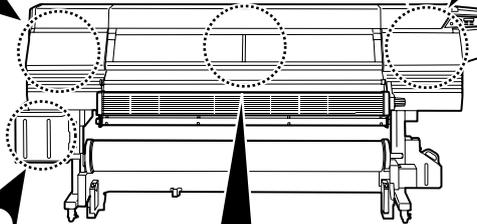
Prevents the print head's nozzles from drying.



Spittoon case

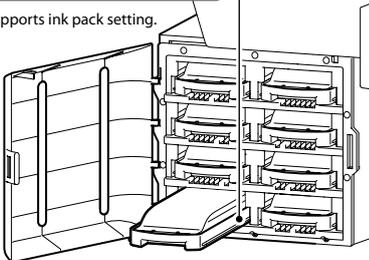
For the stable printing, contains the absorbers to hold excess ink from print head.

Printer front (take-up side)



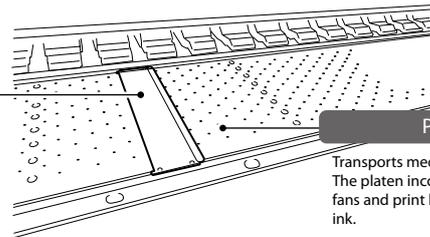
Ink tray

Supports ink pack setting.



Media edge guard

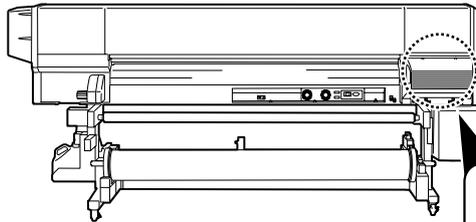
Protects print heads from being damaged by the curling or feathering media edge.



Platen

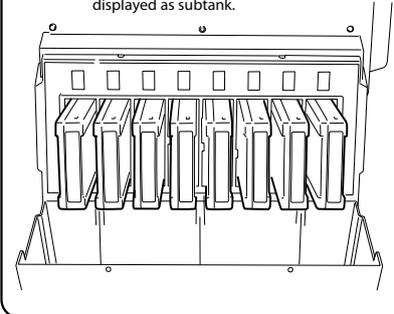
Transports media. The platen incorporates suction fans and print heater to cure the ink.

Printer rear (supply side)



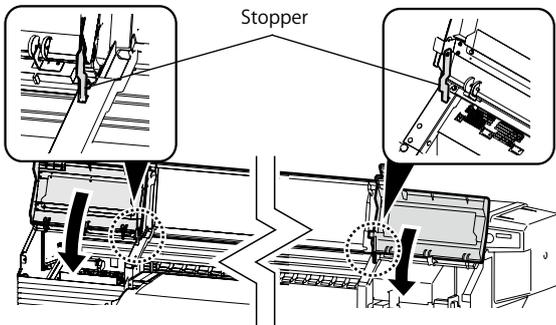
Subcartridge

Provides with ink for printing while ink pack is replaced. On the LCD, Subcartridge is displayed as subtank.



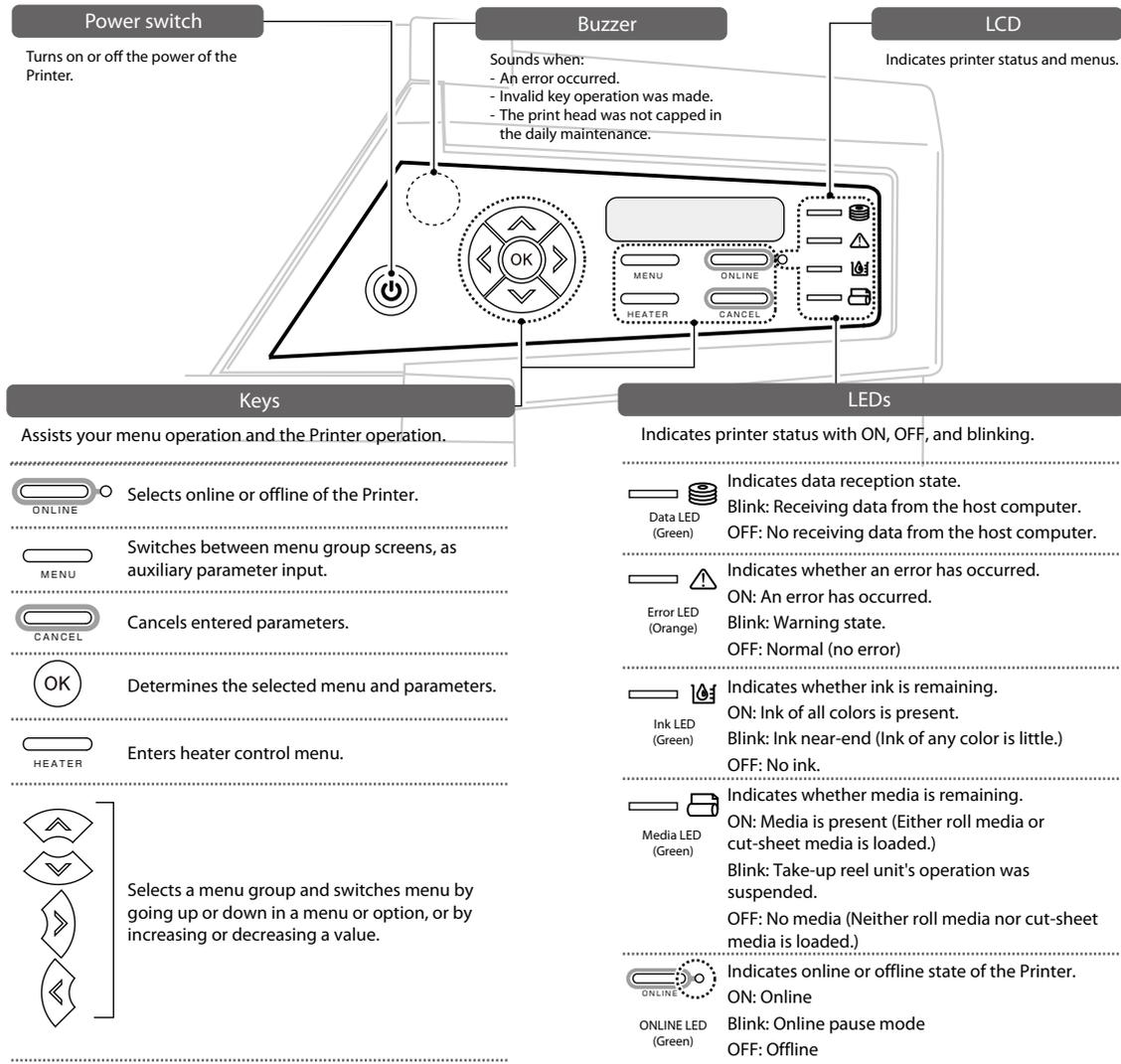
CAUTION

Be sure to unlock the stopper before closing the wiping cover and capping cover.



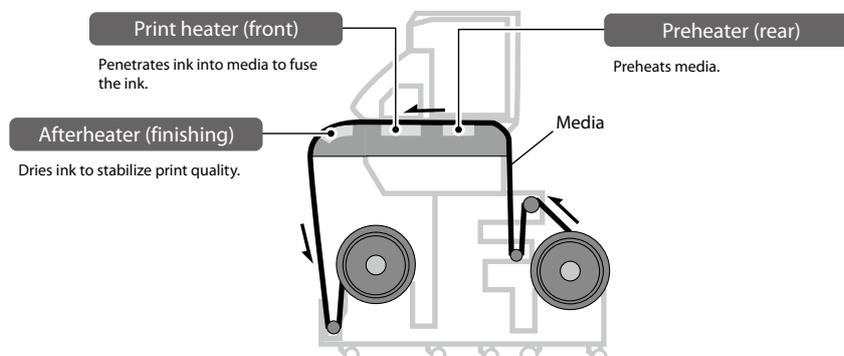
Operation panel

The keys, LEDs and LCD are laid on the Printer's operation panel of the Printer as shown below. In addition, the operation panel is also equipped with a buzzer function for attention in case an error occurs or an invalid key is input.



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.

Online and offline

The Printer operates in both online and offline.

When the Printer is in online:

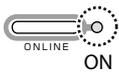
- The Printer prints the data sent from the computer's Raster Image Process (RIP) software.

When the Printer is in offline:

- The menu is operated with the operation panel keys.

The **ONLINE** key switches between online and offline.

Online



When the online LED is on, the Printer is online.



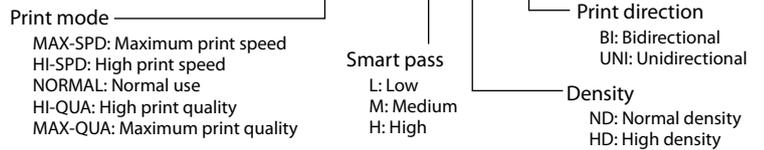
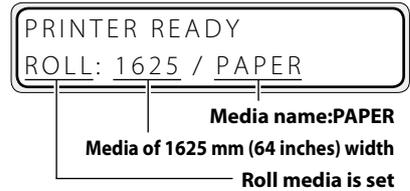
When the data LED is on, the Printing.

Offline



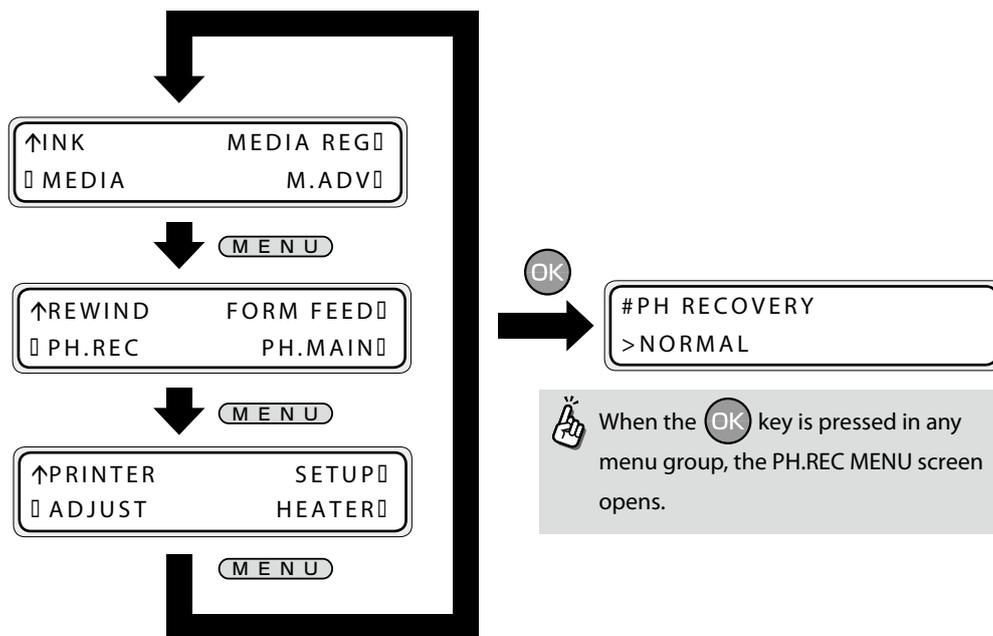
When the online LED is off, the Printer is offline.

Online state (idle mode) display



The Printer in offline displays the menu group on the LCD, and activates the menu operation.

The menu operation assists you to create new media presets, perform daily maintenance, and adjust the print head settings.



When an operator call error is displayed...

- To activate the menu operation, press the **ONLINE** key.
- * However, in some cases the **ONLINE** key does not activate the menu operation.

CP_Manager

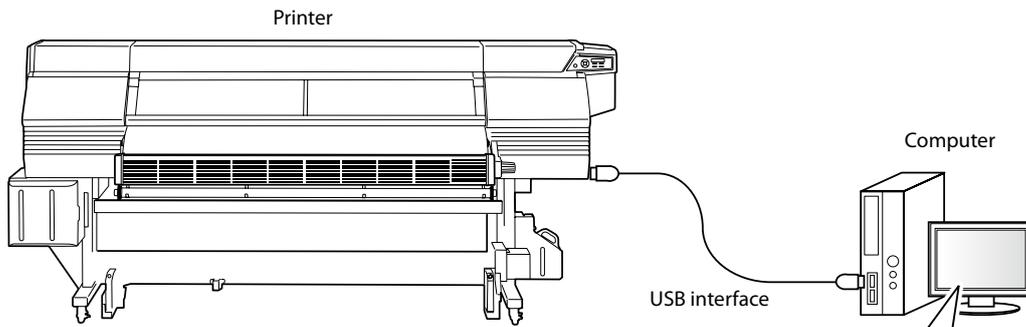
The Printer supports the CP_Manager software that provides a general view of the Printer status. The following operations can be performed with CP_Manager™.

Panel operations

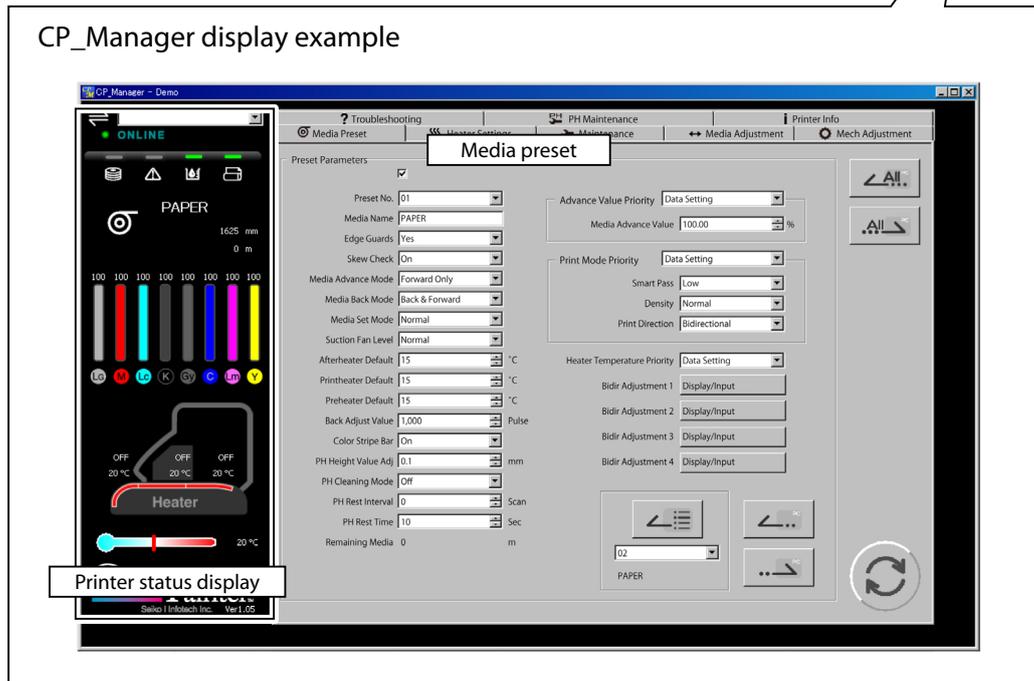
- Display Printer status
- Create media preset, input adjustment values
- Execute nozzle printing, adjustment patterns printing
- Maintenance time notice, maintenance operation.

Additional functions

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



CP_Manager display example



Install CP_Manager™ using the CD-ROM supplied with the Printer.

Supported media

Vinyl

Vinyl is media with PVC-material surface. As a general vinyl is adhesive-backed, by peeling the release paper on the back you can stick the media easily. Depending on its gloss grade, the vinyl is classified into three: 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 double sides coated with synthetic resin film such as PVC. As the banner is water- and tear-resistant, it is applied for tent canvases, construction wrap sheets, and inkjet-printed banner advertisements.

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

Mesh banner

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 will withstand heavy wind.

Depending on the absence of liner, ink absorbing back sheet, the mesh banner is classified into two: backed and unbacked. Though the backed mesh banner is applied to a usual printing, the unbacked mesh banner requires the optional mesh printing kit.

Backlit banner (FF)

Backlit banner, flexible face (FF) is translucent, that is, semi-transparent banner media. With its translucency, it is applied to the backlit sign inside a light box.

Compared with an acrylic sign, the backlit banner is lightweight and easy to handle, wind- and tear-resistant, and of high safety and shutter proof withstanding wind pressure.

Solvent printing coated paper

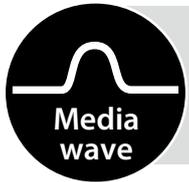
Solvent printing coated paper is media with the printing surface coated on which solvent ink is cured vividly. Its thickness depends on the product type.

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

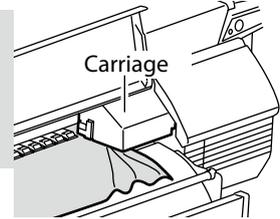


Precautions to prevent media jams

The precautions below are recommended to prevent the main causes of media jams: media wave and skew.

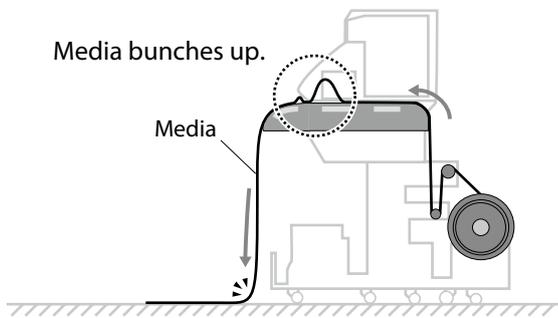


If media waves, the sliding carriage may touch the wave, which may damage the Printer.



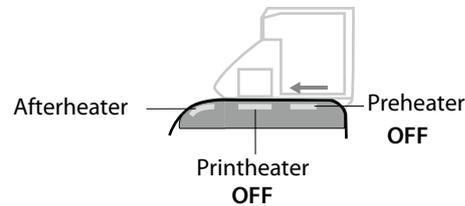
At printing without winding

Note that the media on the platen may bunch up when the front media edge reaches the floor.



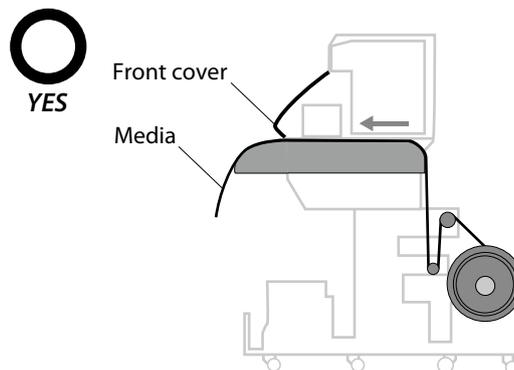
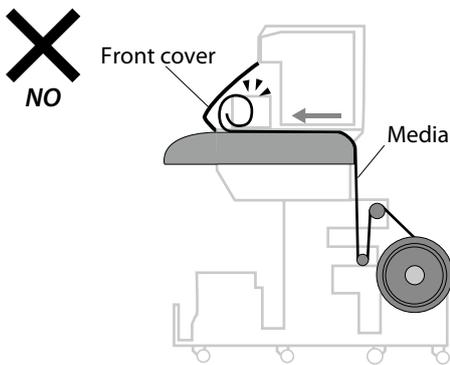
At printing on paper-based media

To avoid media wrinkle, turn off the preheater and printhead.



At setting media

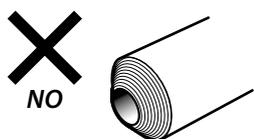
Set the media so that the front media edge precedes the front cover.



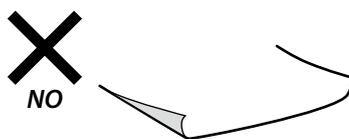
At visually checking media

Avoid using the media below.

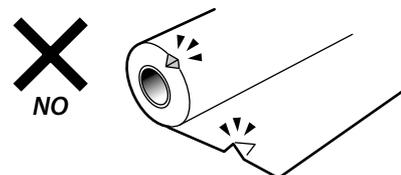
The media was wound telescopically.



The right or left media edge curls.

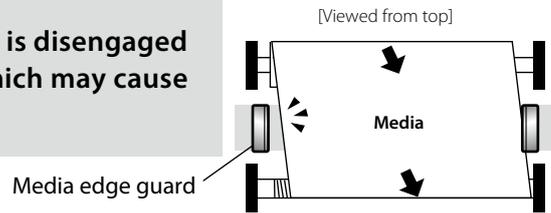


The media edge is deformed by, for example, hitting media

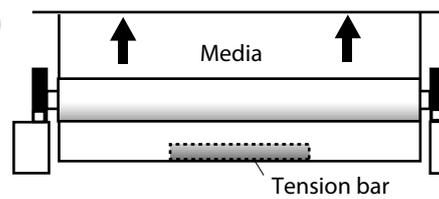
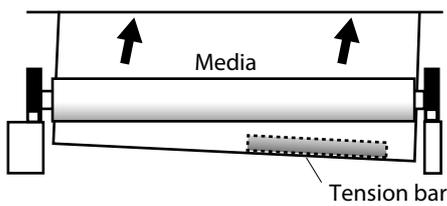




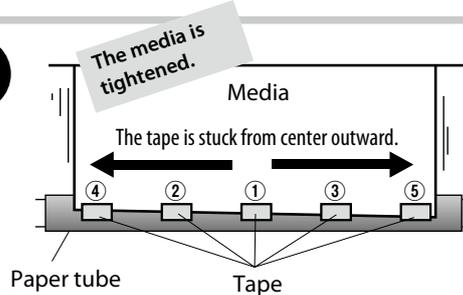
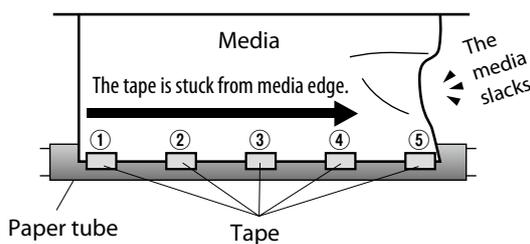
If media skews, the media edge is disengaged from the media edge guard, which may cause the media wave.



Set the tension bar at the media center.

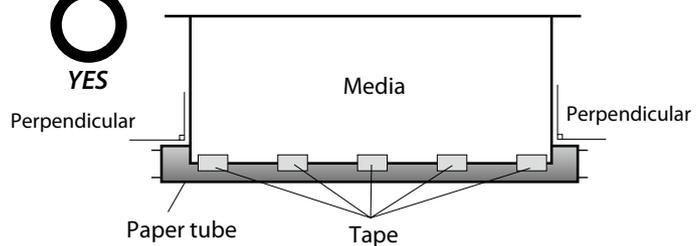
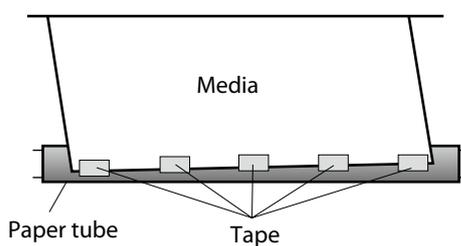


At fixing media to the take-up paper tube, Stick the adhesive tape from center outward.



At attaching media to the take-up paper tube, Be sure to set the media perpendicular to the take-up paper tube.

If the media is not perpendicular to the paper tube, the media is taken up with skew, which may cause the media wave on the platen.



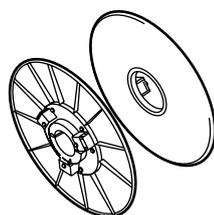
At taking up media in LOOSE winding mode

With IP-7900

Be sure to take up media with paper tube flange.

Without paper tube flange, winding deviation may cause a media jam.

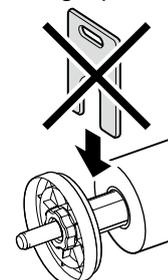
Paper tube flange



With IP-7700

At the both media supply side and media take-up side, without a flange spacer, fix the scroller flange to the media by pressing it as far as it goes.

Flange spacer

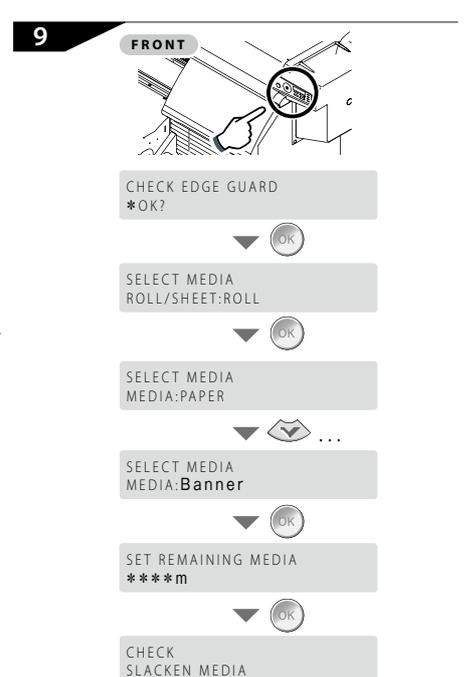
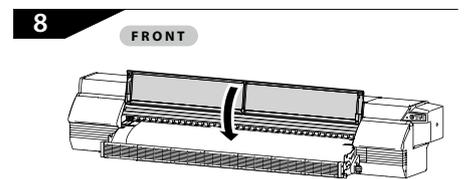
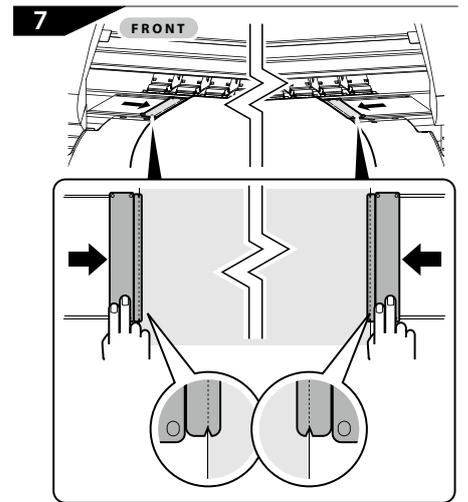
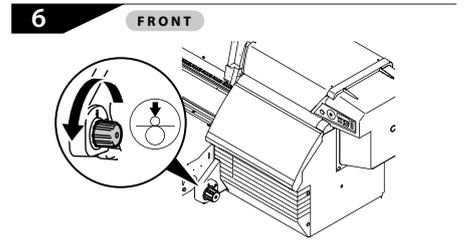
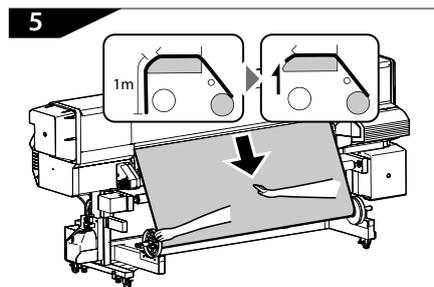
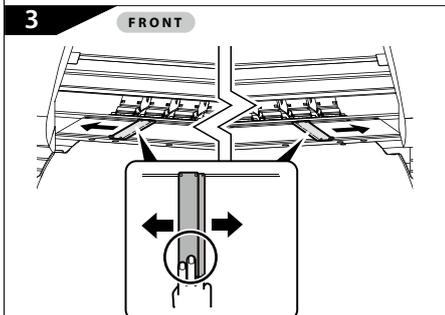
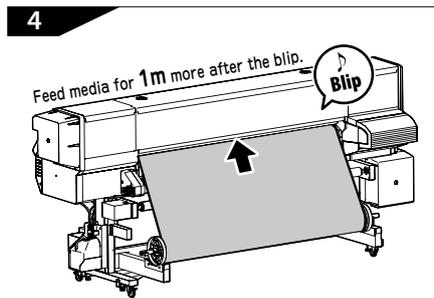
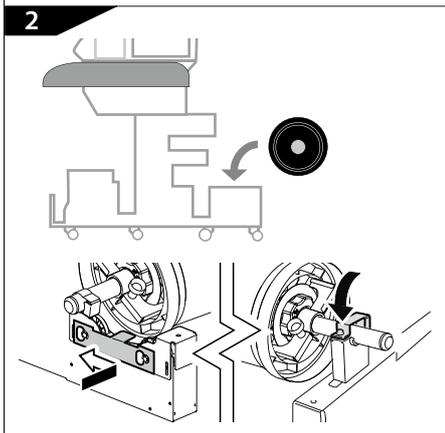
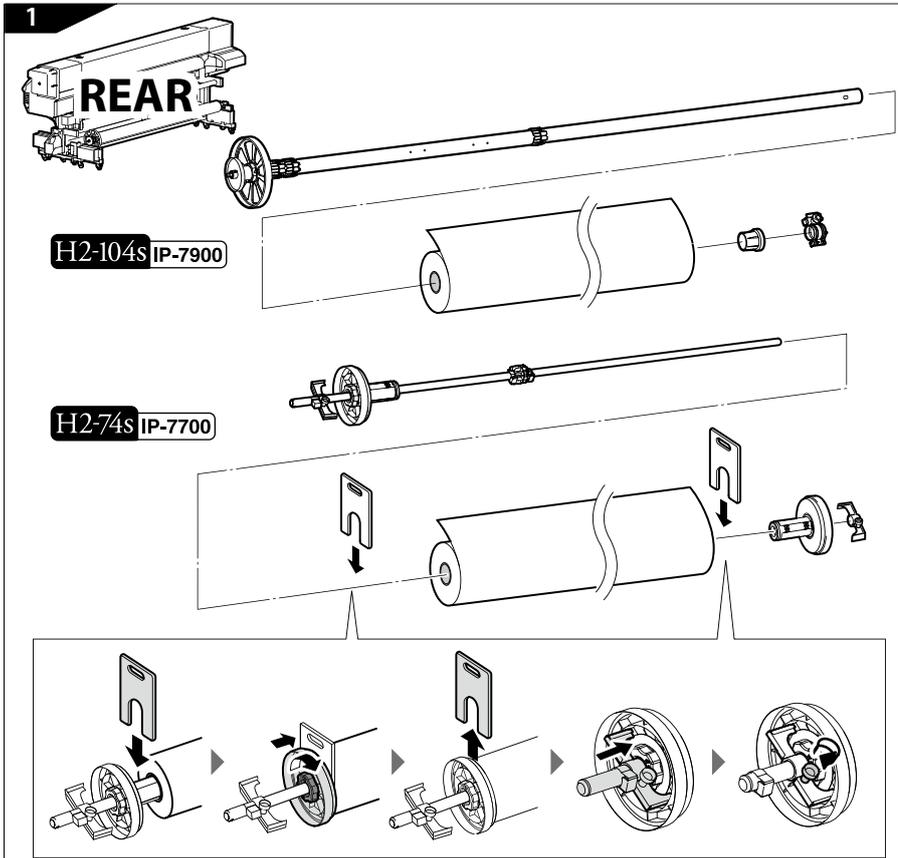


Basic operation for printing

! CAUTION

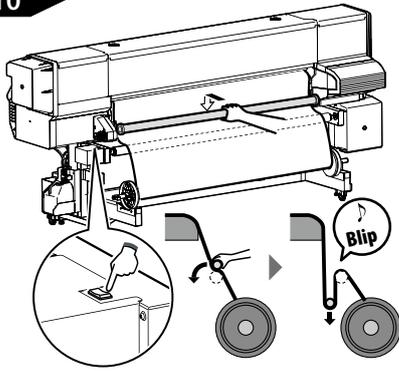
- Pay particularly attention when handling heavy components. (See  page 8 for details.)

Printing workflow overview



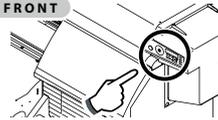


10



11

FRONT



SET MEDIA
*OK?

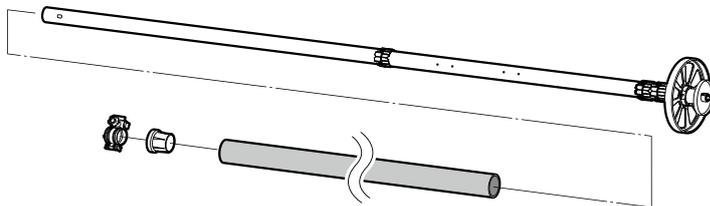


PREPARING MEDIA
PLEASE WAIT

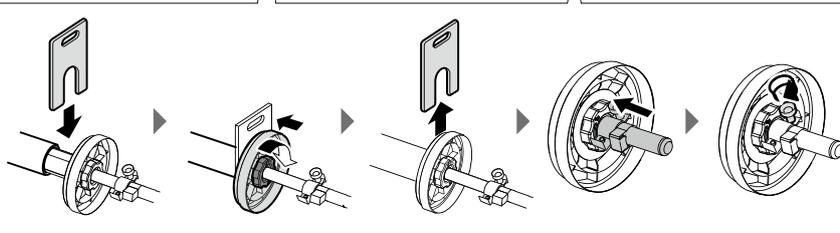
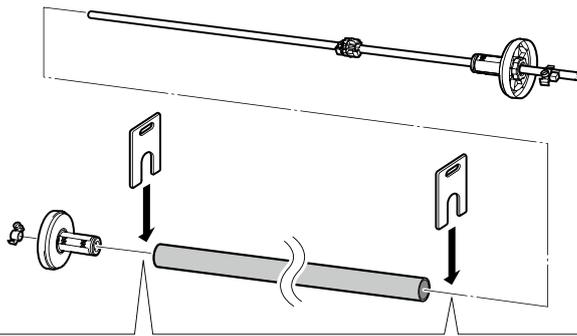
1



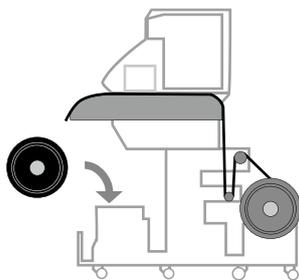
H2-104S IP-7900



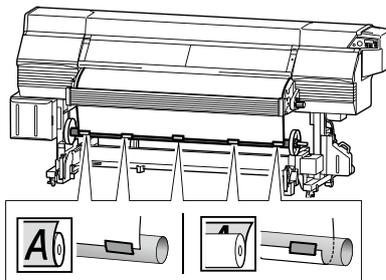
H2-74S IP-7700



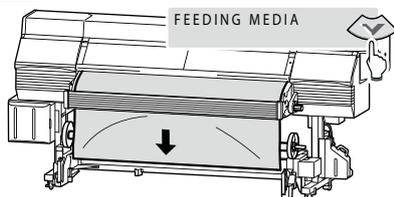
2



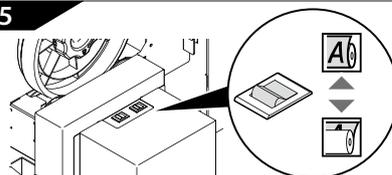
4



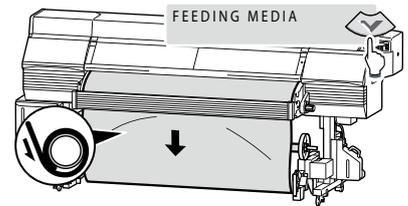
3



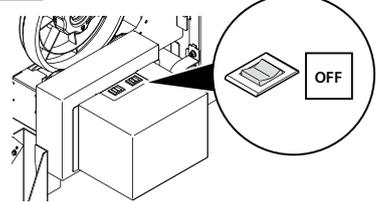
5



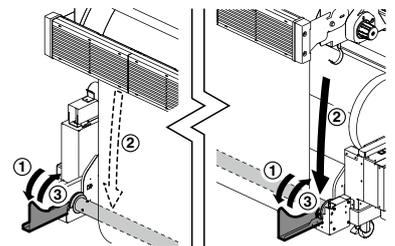
6



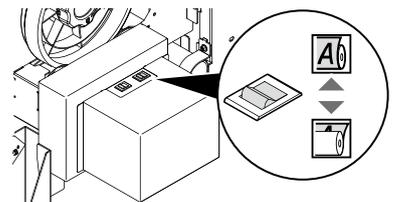
7



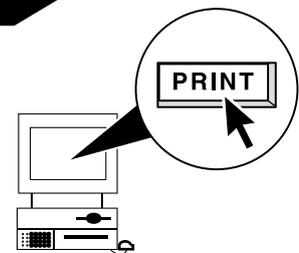
8



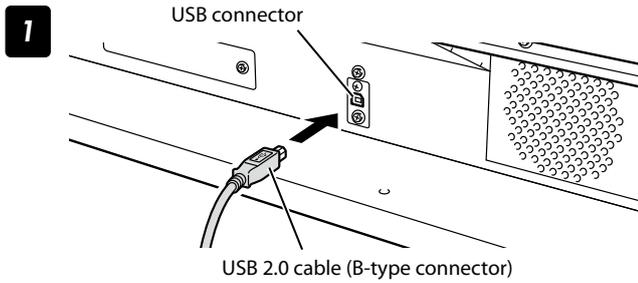
9



10



● To connect USB cable

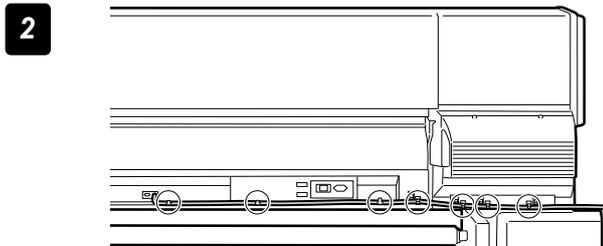


Connect the Printer's USB 2.0 cable to the USB connector at the rear center of the Printer.



Important!

- Use the supplied USB 2.0 cable.
- For the USB connection and the related system, use the USB-compliant hubs and cables supporting USB 2.0. Note that a normal operation may not be ensured if the hubs, cables, and the other related devices are not USB-compliant.
- Use 5m cable or shorter. If the connection length exceeds 5m, apply hubs to extend the connection. The hub quantity must be five or less in total. Note that a normal operation may not be ensured if a cable exceeding 5m is applied, or if the cable connection exceeds 5m without hubs.



Clamp the USB 2.0 cable to the Printer along the wiping unit direction.

Be sure to clamp the USB cable on the Printer's wiping unit side to:

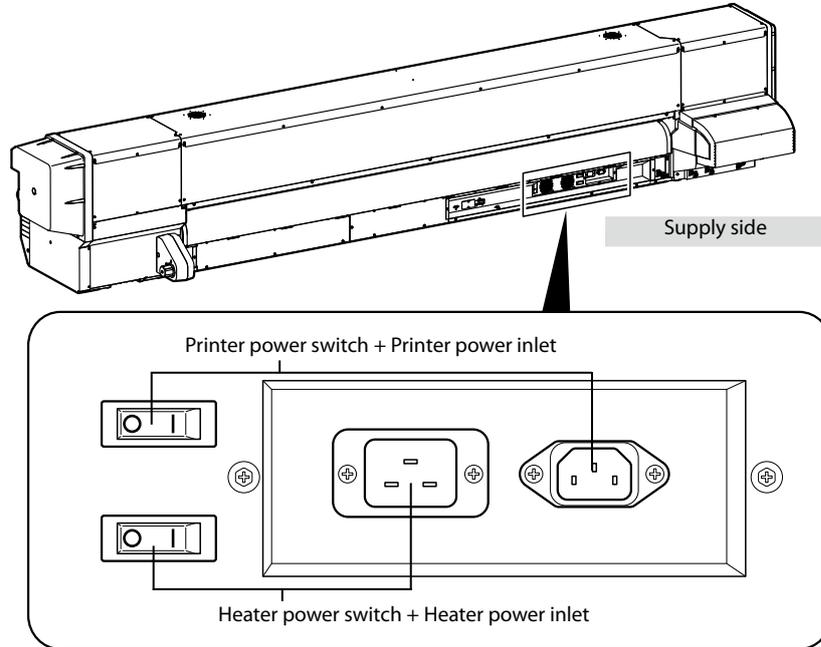
- Protect the USB connector
- Prevent the media feed sensor's incorrect detection

● Turn the Printer on

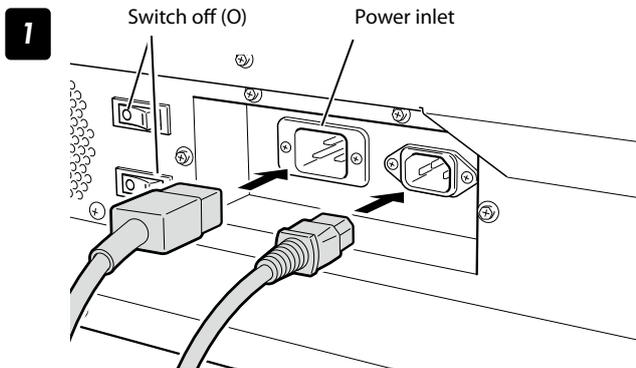
With the procedure below, supply the power to the Printer's two 200V power system.

CAUTION

- Do not use any power cable other than those supplied with the Printer.
- The supplied power cables are for 200 VAC only. Note that the plug shape differs from that for 100 VAC.
- Be sure to secure the power cables with cable clamps. Otherwise, they may be caught by the feed unit resulting in electric shock or damage to the Printer.

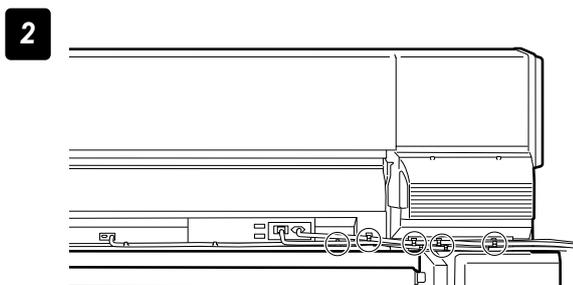


Turn the printer power and heater power switches on only before your first operation. From the next operation, turn the Printer on and off only by pressing the POWER switch on the operation panel.



With the two power cords supplied with the Printer, connect the Printer's two power inlets and the power supply's two sockets.

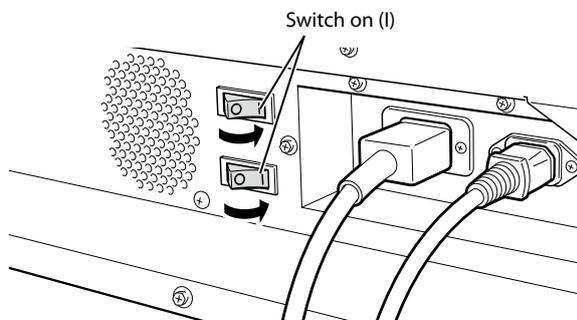
Be sure to confirm that at the rear of the Printer the printer power switch and heater power switch are set to off, the side marked with O.



Clamp the two power cords to the Printer.

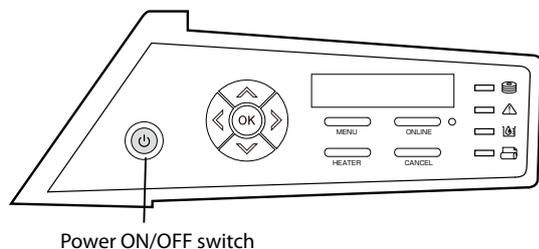
To protect the power cords, be sure to clamp them.

3



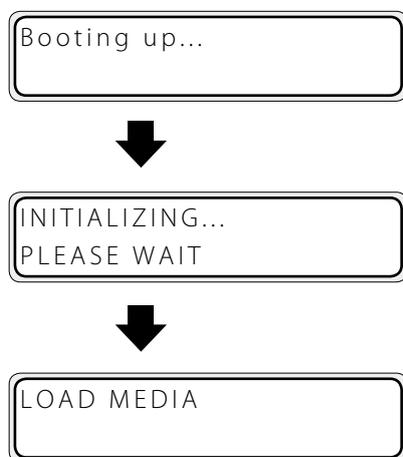
Set the printer power switch and heater power switch to on, the side marked with I.

4



Press the power switch on the operation panel.

When the power switch is turned on, the Printer performs the power-on self-diagnostic test and displays the following message on the operation panel.



If an error message appears...

- To recover the error, refer to *"When encountering a problem."*
- If the POWER LED on the operation panel does not light even when the printer and heater power switches at the rear of the Printer and the power ON/OFF switch on the operation panel are turned on, the power supply has a problem.

⚠ CAUTION

Except for emergency, turn off the power while a message "PRINTER READY" is displayed. If the power is turned off unnecessarily when the Printer is performing "INITIALIZING..." or "CLEANING," the ink may drool, the print head may be damaged, or saved parameters may be lost.

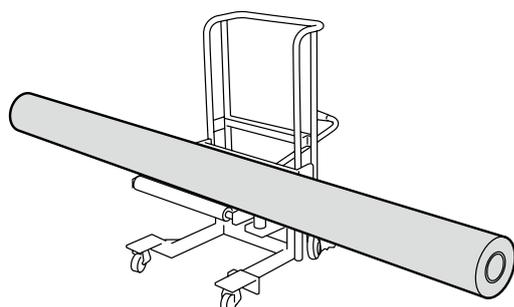
● **To load media on the Printer**

This section uses banner to explain the media loading procedure.

⚠ CAUTION

- Media rolls and scrollers are heavy. To prevent injuries, lifting of these components should always be performed by two or more persons and attention must be paid not to let them fall. Additional persons may be required if these components seem to be too heavy. Lifting objects that are too heavy may lead to physical injuries.
- To prevent injuries when loading or replacing the media, use a dolly equipped with a lifter (recommended dolly).

1



Put the media on the table.

If you intend to use a dolly, contact us. We have a recommend product.

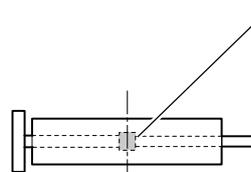
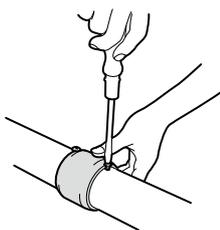
2 Load a roll media onto the scroller flange and scroller shaft.

H2-104s
IP-7900

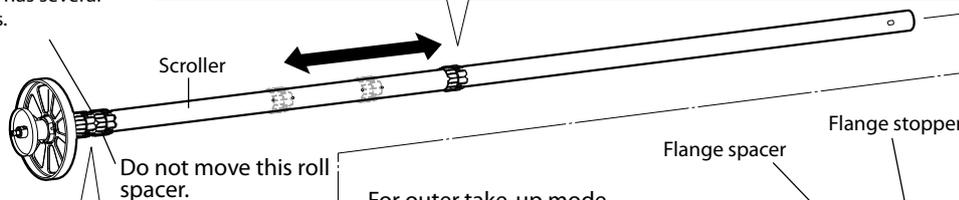


Do not grab this roll spacer as it has several protrusions.

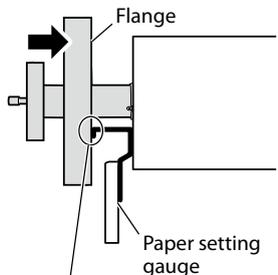
Remove the two screws and move the roll spacer to the center of the media. There are three screwing positions.



Roll spacer
The roll spacer prevents the paper tube from bending at the center due to the media weight. Move it when using media that tends to bend (100-inch media, etc.). Move it also if it comes in the way of the flange spacer used with media short in width.

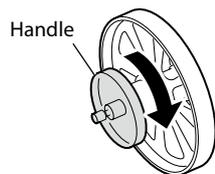


Insert the scroller into the paper tube, determine the distance between the media edge and the flange.

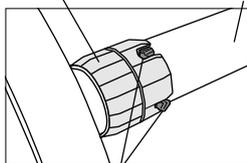


Attach the paper setting gauge's flange side to the flange's spoke side.

Rotate the handle clockwise as far as it will go, and then secure the scroller at the point.



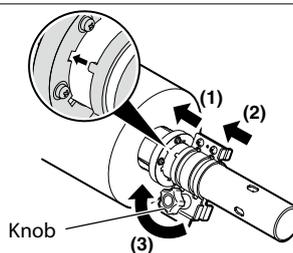
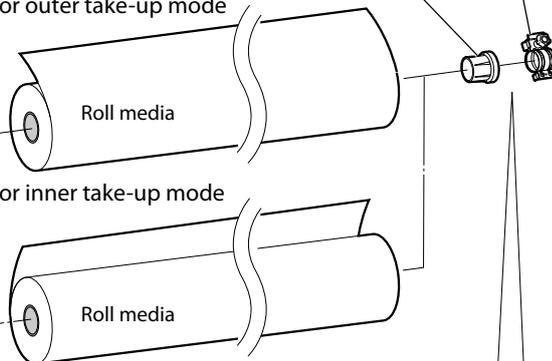
Roll spacer Scroller



Do not touch the claw of the scroller.

For outer take-up mode

For inner take-up mode



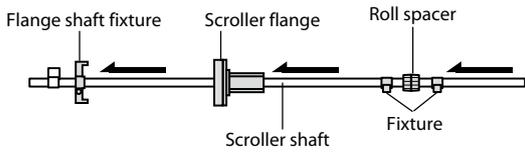
- (1) The flange spacer has teeth. Push it as far as it will go.
- (2) Match the flange stopper with the claw of the flange spacer



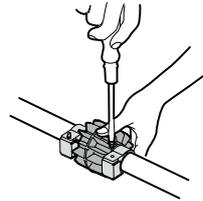
- Hold the knob to move the flange stopper. Holding another part to move the flange stopper may lead to injuries.
- (3) Tighten the knob to secure the flange spacer and the flange stopper.

H2-74s

IP-7700



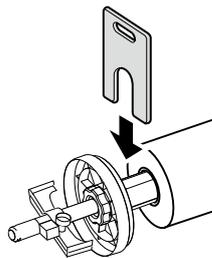
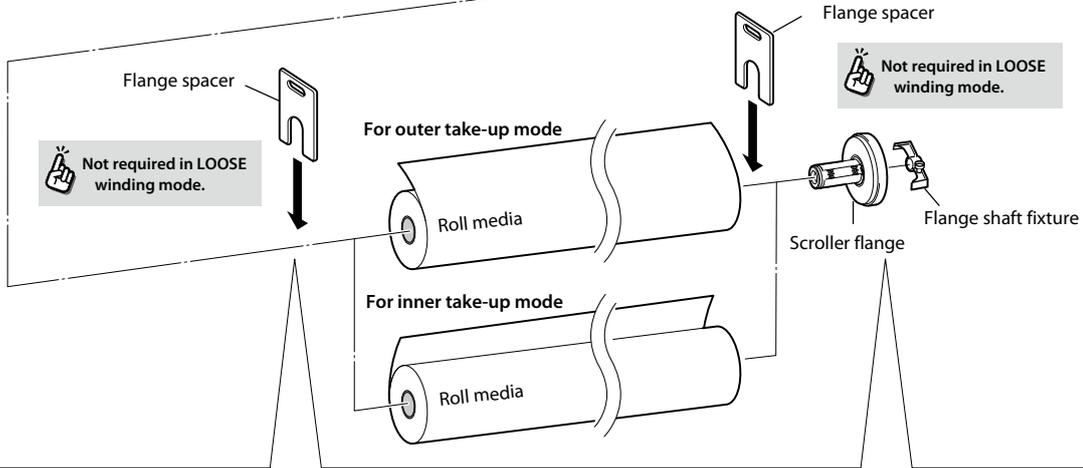
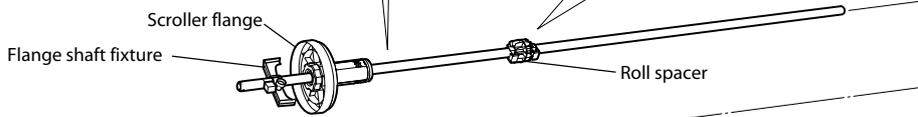
Pass the scroller shaft through the roll spacer with fixtures at its both sides, scroller flange, and flange shaft fixture.



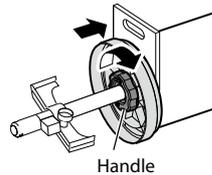
Move the roll spacer to the media center, and fasten the fixtures at the roll spacer's both sides.

The roll spacer prevents the paper tube from bending at the center due to the media weight. Move it when using media that tends to bend (100-inch media, etc.). Move it also if it comes in the way of the flange spacer used with media short in width.

Roll spacer

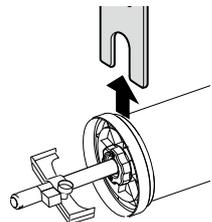


(1) Insert the flange spacer between the scroller flange and the media roll.

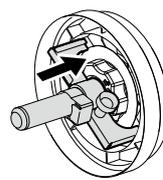


(2) Push the scroller flange until it stops and turn the handle clockwise until the flange is fixed to the paper tube.

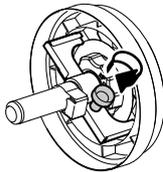
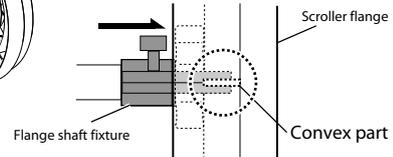
NOTE:
- If you keep loosening the scroller flange handle, it will block at a certain level. Unscrewing the handle beyond that limit may damage the scroller flange. Pay attention when loosening the handle.



(3) Remove the flange spacer.



(5) Cover the scroller flange's convex part with the flange shaft fixture, and push the flange shaft fixture as far as it goes.



(5) Turn the knob to fix the scroller shaft.

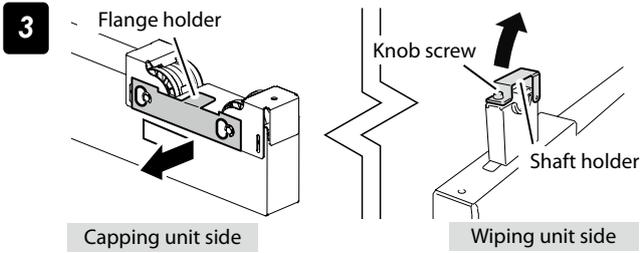
Check the flange spacer's correct position.

The flange spacer should be inserted to the position indicated by the line B. Be careful not to deform it by applying too much force.

Flange spacer Scroller flange

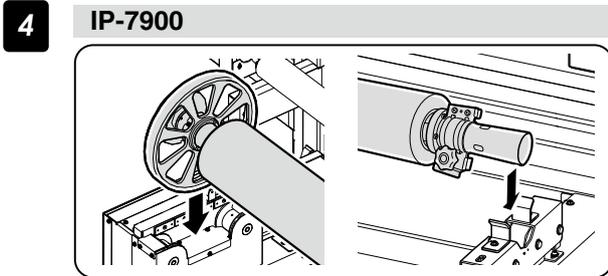
A B

IP-7700 Only



Remove the flange holder, and open the shaft holder.

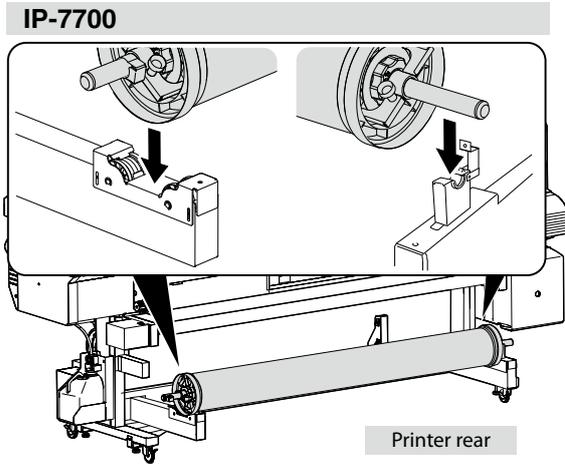
To open the shaft holder, loosen the knob screw.



Load the media roll into the Printer's rear side (supply side).

! CAUTION

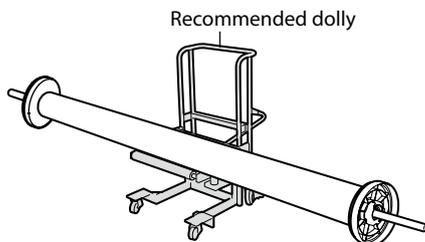
- Be careful not to trap your hand or fingers between the Printer and scroller shaft.



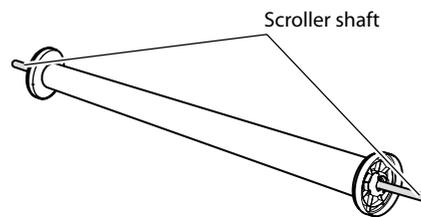
! CAUTION

- Media rolls and scrollers are heavy. To prevent injuries, lifting of these components should always be performed by two or more persons and attention must be paid not to let them fall. Additional persons may be required if these components seem to be too heavy. Lifting objects that are too heavy may lead to physical injuries.
- To prevent injuries when loading or replacing the media, use a dolly equipped with a lifter (recommended dolly). If carried by hand, hold the media by the scroller shaft.
- Be careful not to catch your finger or hand between the Printer and the scroller shaft.

On carrying the media alone:

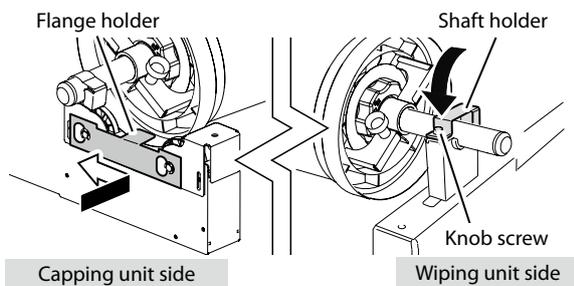


When carried by two or more persons



IP-7700 Only

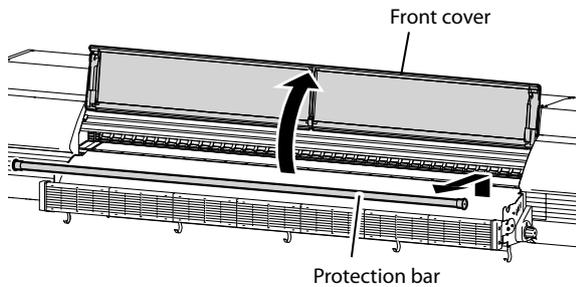
5



Set the flange holder, and close the shaft holder.

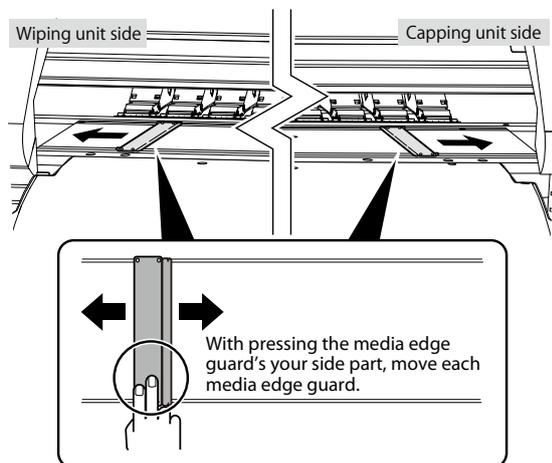
After closing the shaft holder, fasten the knob screw.

6



Remove the protection bar and open the front cover.

7



Move the media edge guards to each side.

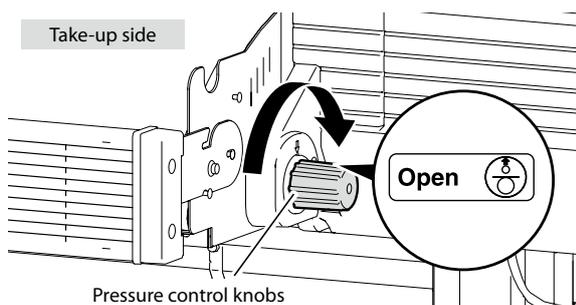
Move the media edge guards to each side so that they are not under the media.

With pressing the media edge guard's your side part, move each media edge guard.

CAUTION

- Be sure to press the media edge guard on your side when moving the media edge guards. You may get injured if you strongly press the plate's edge while moving the media edge guard.

8



Set the pressure to "Open" by rotating the pressure control knob.

At this step, by pressing and holding the MENU key, the Printer enters the offset mode, in which the media is loaded with the slide in the direction to the wiping unit.

After "USE OFFSET MODE" is displayed on the operation panel, select a key from the two below.

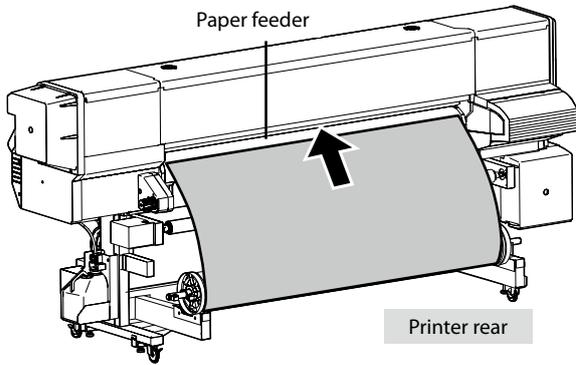
-  key, to set the offset mode to ON; or
-  key, to set the offset mode to OFF



Offset mode requires ...

- To load the media in the offset mode, an optional offset loading kit 104 or 74 is required.

9



Insert the media end into the paper feeder, while smoothing out the media by hand to prevent wrinkles.

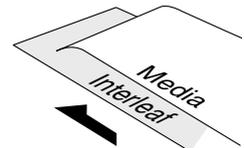
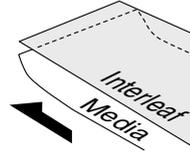


If the media is curled

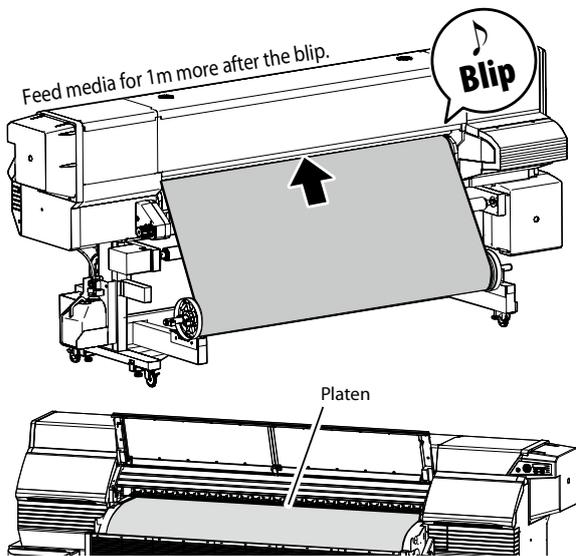
- If it is hard to insert the media end into the paper feeder due to a curl of the media, interpose an interleaf and insert the media end under the interleaf as shown in the figure below.

- Upward curl

- Downward curl



10



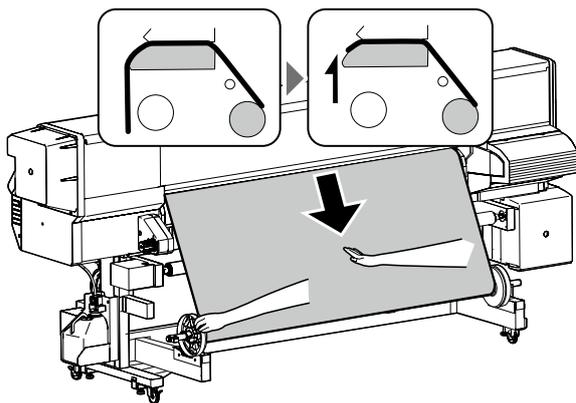
Feed the media for 1m more after the blip. In this state, smooth out the media toward the both sides on the platen to make the media center tense.



Point to be checked

- If the media is set with a distortion or wrinkles, it may cause a media jam or skew.

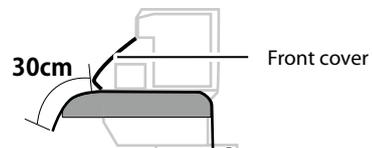
11



Feed back the media.

Feed back the media while pressing the center of the media gently at the supply side.

Confirm that the front media edge precedes the closed front cover by approx. 30 cm.

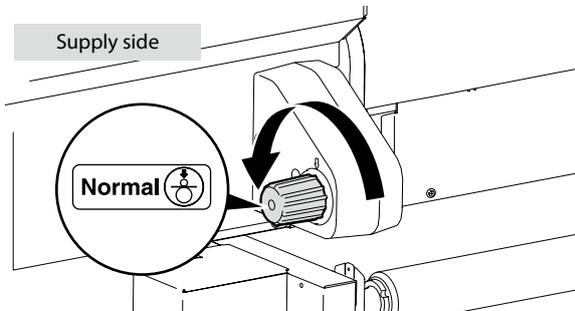


Important!

- This step is important to set the media properly.
 - IP-7700 only
 Feed the media back while drawing the flange to the right direction (right side in the figure on the left).

12

Supply side



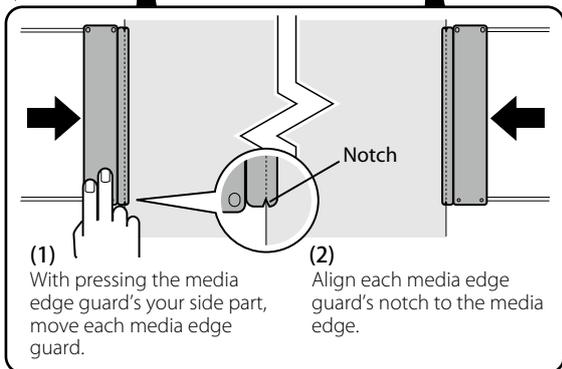
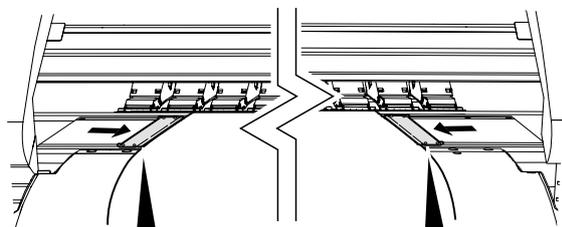
Set the pressure to "Normal" by rotating the pressure control knob counterclockwise.



Point to be checked again

- Check that the media on the platen has no wave or wrinkle.

13



Set the media edge guards.

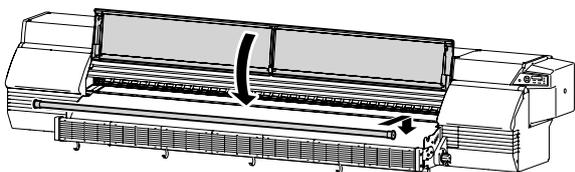
- (1) With pressing the media edge guard's your side part, move each media edge guard to the media edge.
- (2) Align each media edge guard's notch to the media edge.

Check that the media edge guards are not under the media or thick media is not caught by having been inserted forcibly.

CAUTION

- The print operation without media edge guards may cause a media jam.
- Be sure to press the media edge guard on your side when moving the media edge guards. You may get injured if you strongly press the plate's edge while moving the media edge guard.

14



Close the front cover, and set the protection bar.

15

CHECK EDGE GUARD
*OK?



Press the **OK** key.

16

SELECT MEDIA
ROLL/SHEET:ROLL



Press the **OK** key.

17 SELECT MEDIA
MEDIA:PAPER

SELECT MEDIA
MEDIA:Banner

18 SET REMAINING MEDIA
*****m

CHECK
SLACKEN MEDIA

Select **[Banner]** and press the **OK** key.

With the or keys, select a media preset for the current media type.

Enter the remaining media length and press the **OK** key.

When you do not know the remaining media length, press the **OK** key without entering the length.

19 Adjust the tension bar length on the supply side

To print in TENSION winding mode: Conform the tension bar length with the media width.

The table below lists the tension bar combination and the tension bar's total length. Referring to the list, apply the tension bar length nearest to the media width.

Use the tension bar with no flange 1 indicated on **page 15**.



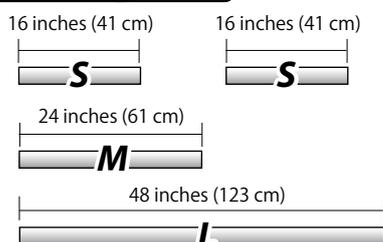
To print on banner media ...

- To print on banner media, you are recommended to load the media in TENSION winding mode.

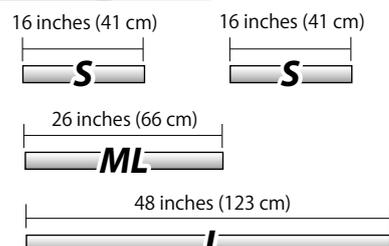
To print without winding: The table below lists the tension bar combination and the tension bar's total length. Referring to the list, apply the tension bar length nearest to the media width.

Tension bar length

H2-104s IP-7900



H2-74s IP-7700



Examples of tension bar combinations

Media width	Tension bar combination			
	TENSION winding mode		Other modes	
	IP-7900	IP-7700	IP-7900	IP-7700
36, 38 inches	S, S	S, S	L(light)	
39, 44 inches	M, S	ML, S		
45, 52 inches	L	L		
53, 60 inches	M, S, S	ML, S, S		
61, 68 inches	L, S	L, S		
69, 76 inches	L, M	L, ML		
77, 82 inches	L, S, S	-		
83, 94 inches	L, M, S	-		
95, 104 inches	L, M, S, S	-		

To print without winding: Use the L (light) tension bar

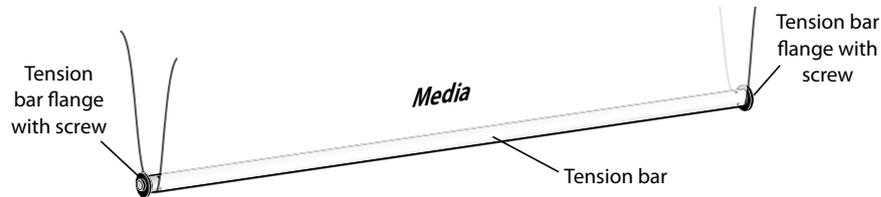
Use this tension bar when printing without winding, and with vinyl and solvent printing coated media.

Use the tension bar with no flange 2 indicated on  **page 15**.

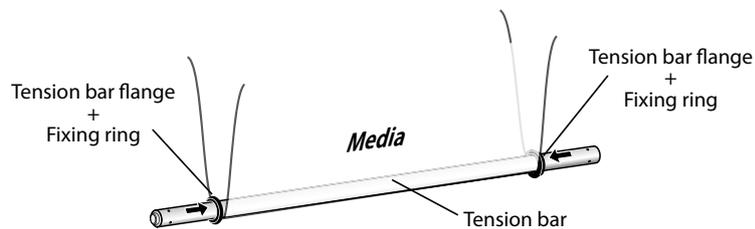


To print in LOOSE winding mode: Refer to page 56.

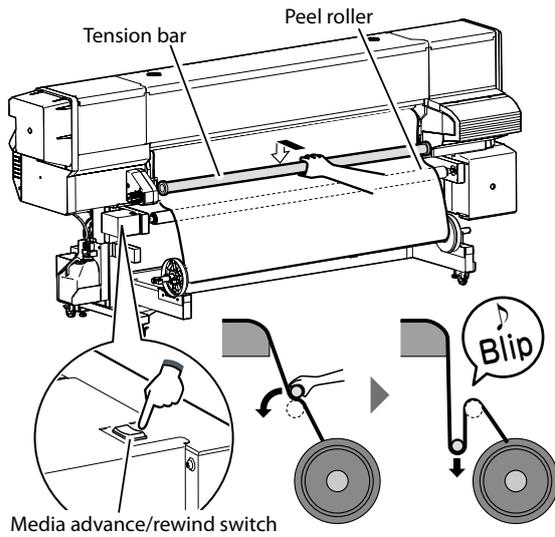
When the tension bar is almost same as the media width, or is slightly longer than the media width, set the tension bar with screws to the tension bar.



When the tension bar is clearly longer than the media width, set the tension bar flanges and fixing rings to the tension bar.



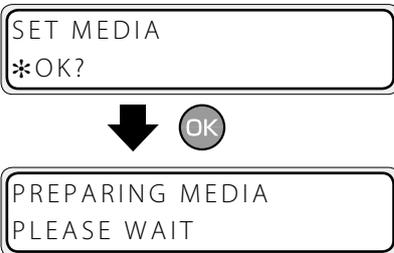
20 Create a slack area in the media.



CAUTION

- Do not rotate the peel roller, or the Printer may be damaged.
- Be sure to rotate the peel roller with the media advance/rewind switch.

21

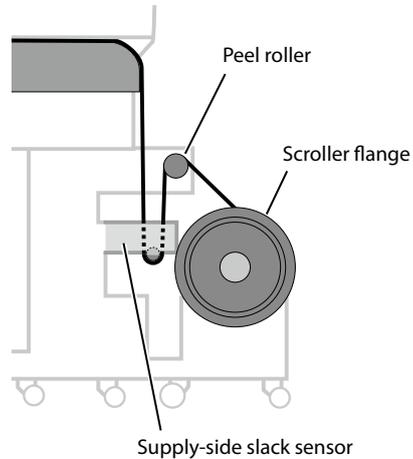


(1) Press the tension bar to the peel roller's upper part.

(2) By pressing the media advance/rewind switch, create a slack area in the media. Then, with slightly pressing the tension bar in the direction of the media rear side, install the tension bar in the slack.

Slacken off to a level lower than the supply-side slack sensor.

When the slack reaches the sensor detection area, the operation panel blips.



Press the **OK** key.

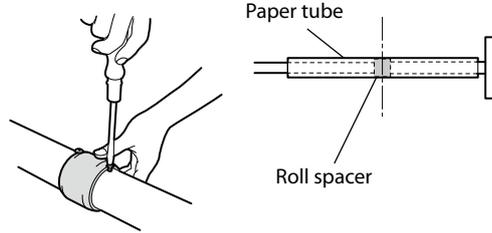
● **To load media on the take-up reel unit**

This section explains the procedure, taking in TENSION winding mode for instance.

1 Load a paper tube onto the scroller flange and scroller shaft.

H2-104s
IP-7900

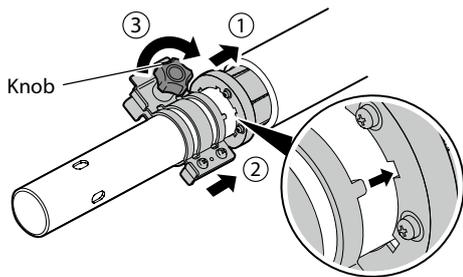
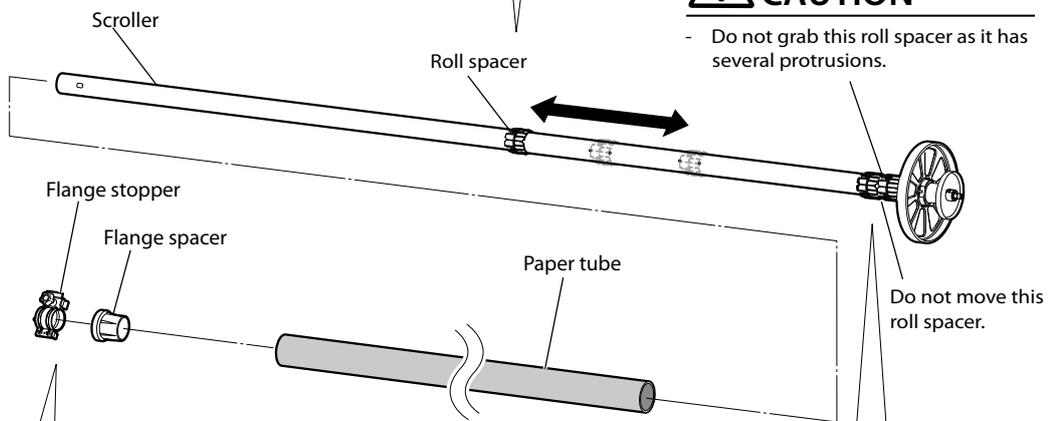
Remove the two screws and move the roll spacer to the center of the media. There are three screwing positions.



The roll spacer prevents the paper tube from bending at the center due to the media weight. Move it when using media that tends to bend (100-inch media, etc.). Move it also if it comes in the way of the flange spacer used with media short in width.

CAUTION

- Do not grab this roll spacer as it has several protrusions.

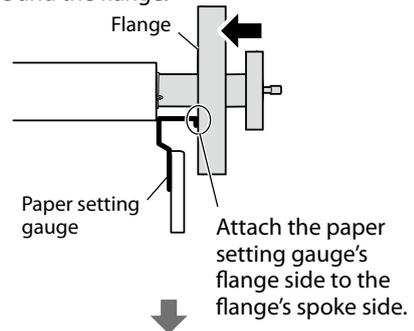


- (1) The flange spacer has teeth. Push it as far as it will go.
- (2) Match the flange stopper with the claw of the flange spacer
- (3) Tighten the knob to secure the flange spacer and the flange stopper.

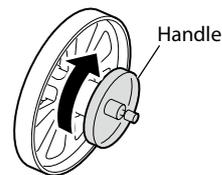
CAUTION

- Hold the knob to move the flange stopper. Holding another part to move the flange stopper may lead to injuries.

Insert the scroller into the paper tube, determine the distance between the media edge and the flange.

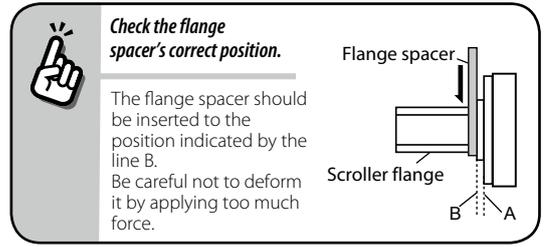
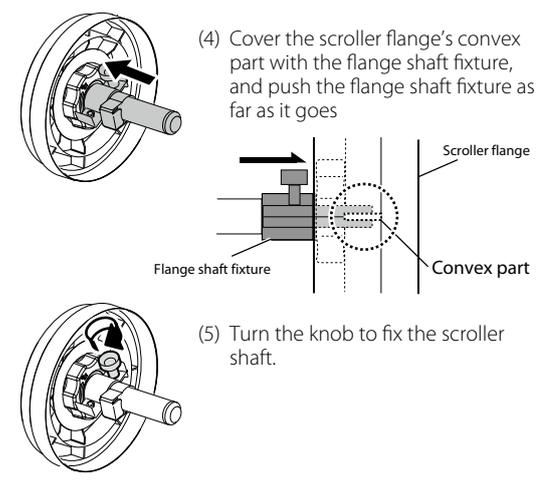
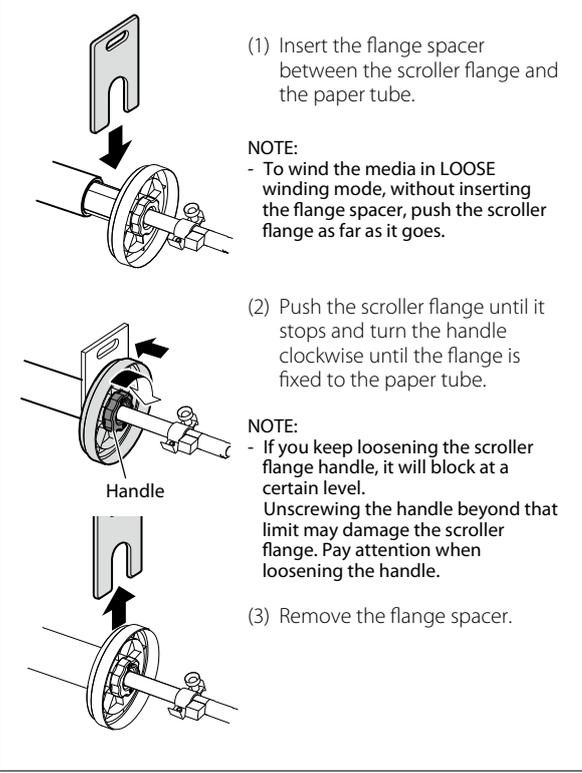
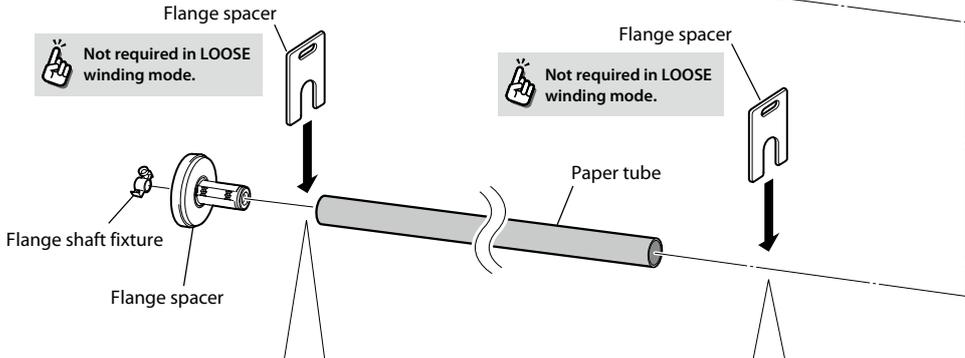
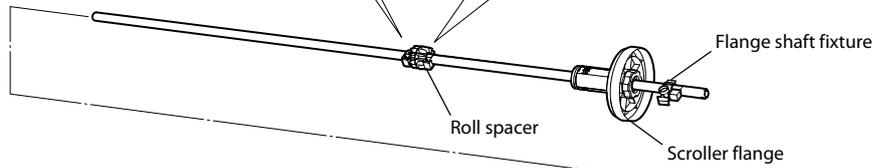
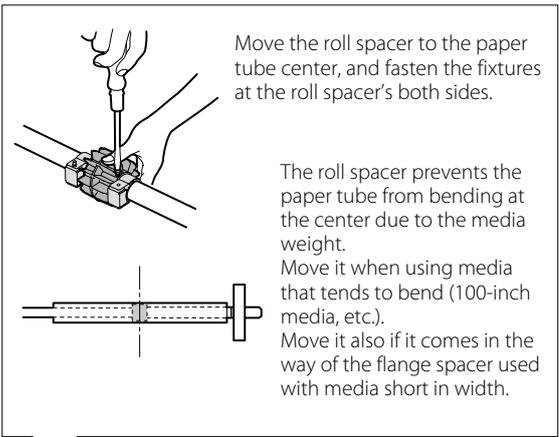
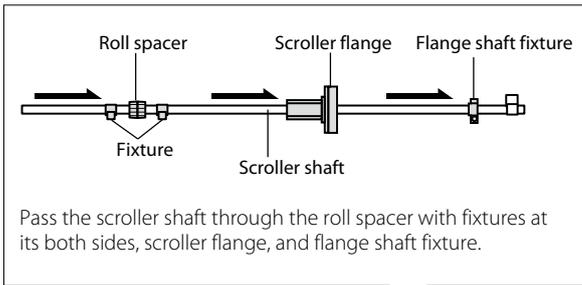


Rotate the handle clockwise as far as it will go, and then secure the scroller at the point.

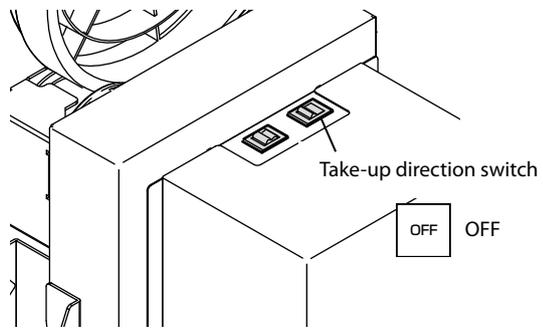


H2-74s

IP-7700



2

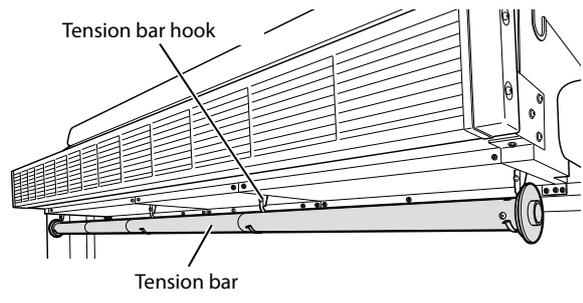


Set the take-up direction switch to OFF.

! CAUTION

- If the Printer processing proceeds to the next step with the take-up direction switch set to ON, your hand may be caught as the scroller is not secured.

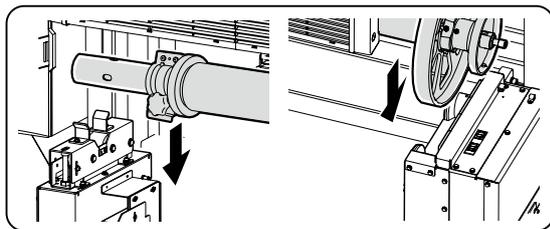
3



Hook the tension bar to the tension bar hook beforehand.

4

IP-7900

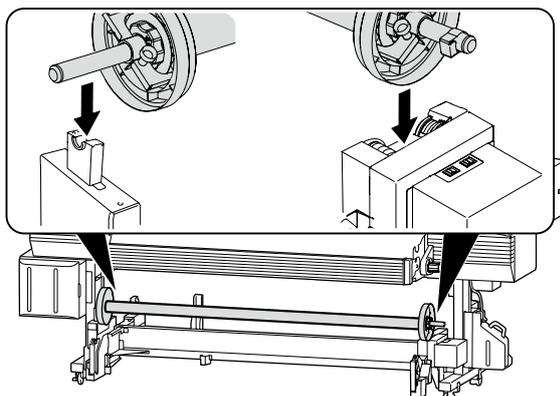


Load the paper tube in the Printer.

! CAUTION

- Be careful not to trap your hand or fingers between the Printer and scroller shaft.

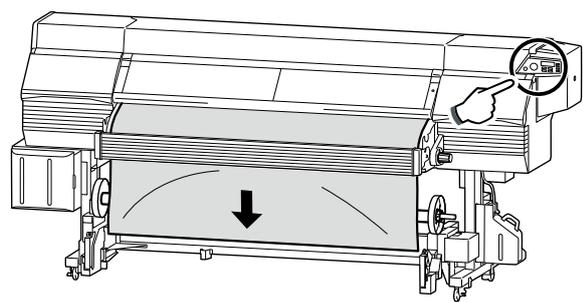
IP-7700



- IP-7700 only

Load it while drawing the flange to the left direction (left side in the figure on the left).

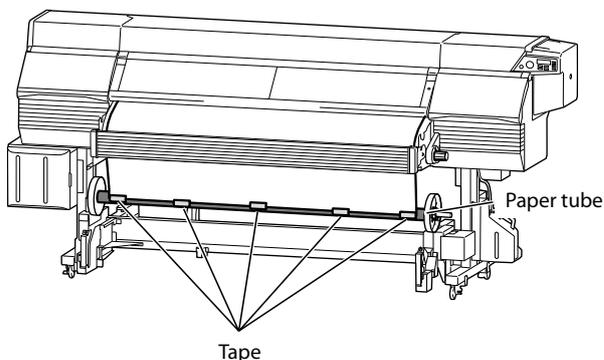
5



By pressing the  key, feed the media until the front media edge is wound on the paper tube.

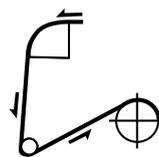
FEEDING MEDIA

6

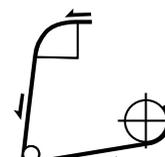


Attach the media passed through the Printer to the paper tube.

- (1) Check the take-up direction, remove the slack of the media, and then make sure that the media position is not deviated on the supply side and the take-up side.
- (2) Attach the media to the paper tube with adhesive tape. Tape it first at the center, and then at the right and left sides, so that the tension is uniform across the media width and that no wrinkles are found on the media. The taped positions are recommended to be three or more in total.



Inner take-up:
Media is taken up with its print surface coming inside.



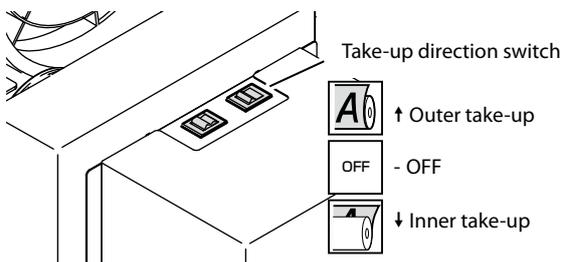
Outer take-up:
Media is taken up with its print surface coming outside.



Points to be noted on winding media

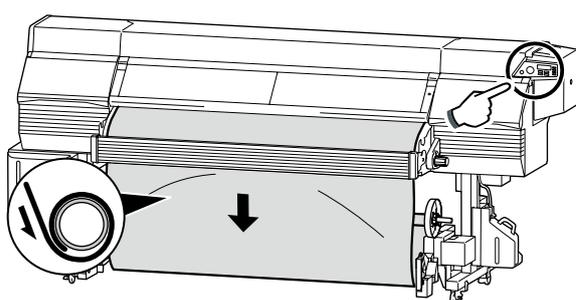
- If the media is not installed straight to the paper tube, a skew of media may occur.
- When the take-up direction is set as Inner take-up, the taken-up media's diameter increases and the media cannot backfeed after printing. Select **[FWD ONLY]** beforehand in MEDIA BACK MODE of MEDIA REG MENU. (When the media backfeeds in **[BACK&FWD]** mode, the motor idles and may cause a trouble.)

7



Set the take-up direction switch according to the take-up direction.

8



By pressing the  key feed the media, and wind one full turn of the media on the paper tube.

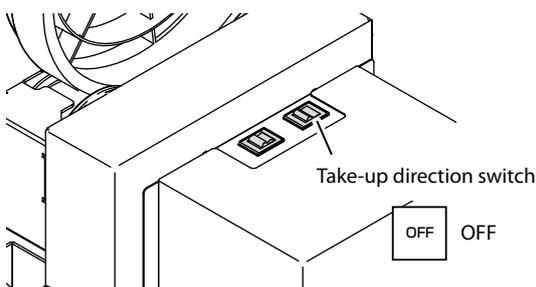
FEEDING MEDIA

! CAUTION

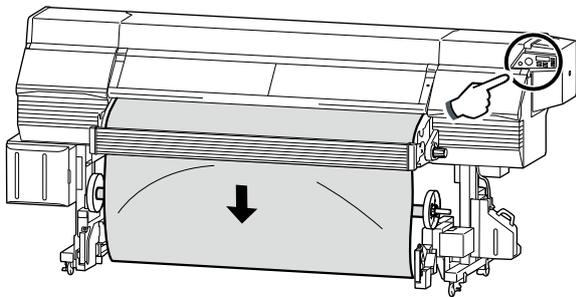
- If the tension bar is attached without winding the media by one turn, the tape will peel off.

Again set the take-up direction switch to OFF.

9



10

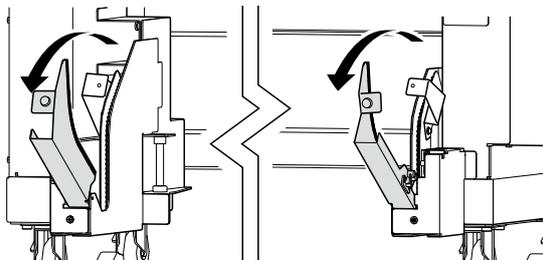


Press the  key to feed enough media to create a slack.

FEEDING MEDIA

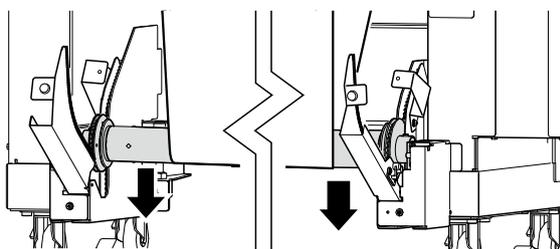
Be sure to create a sufficient slack so that you can install the tension bar at the bottom of the tension bar guide.

11



Open the tension bar guide's cover.

12



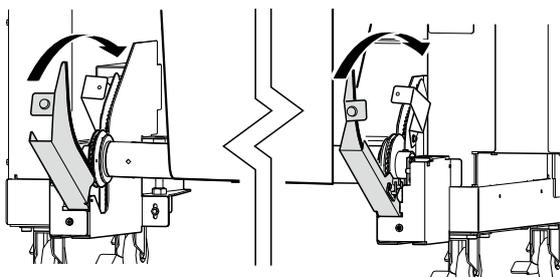
Place the tension bar at the bottom of the tension bar guide.



When the tension bar does not reach the tension bar guide's bottom

- When the tension bar does not reach the tension bar guide's bottom, feed the media with the operation panel's FEED menu. Confirm that tension bar was placed securely at the tension bar guide's bottom.

13



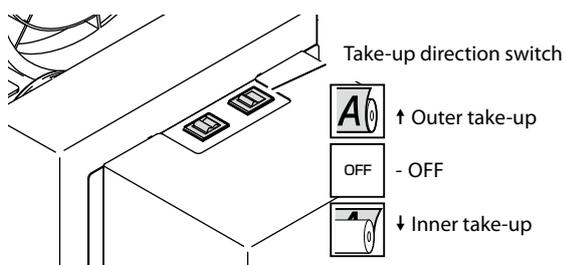
Close the tension bar guide's cover.



When the excessive media slack is created

- If the media slack is secured excessively, the take-up reel unit may keep winding the media for more than the prescribed time, and a take-up timeout error occurs. In such a case, turn off the take-up direction switch, and then press the switch again.

14



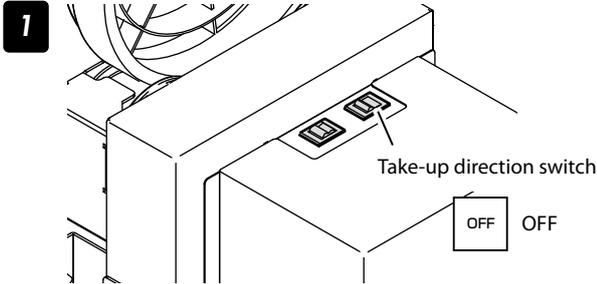
Set the take-up direction switch according to the take-up direction.

15

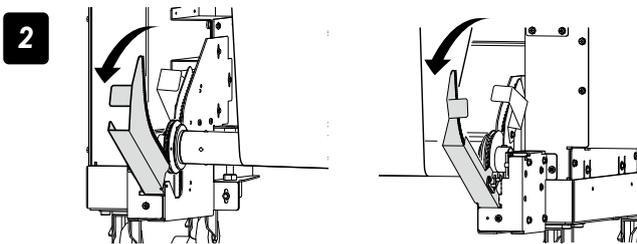
Input the data in the RIP software.

Procedure to remove media roll from the Printer

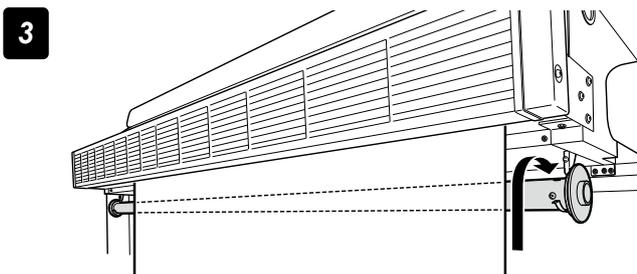
Media at take-up side



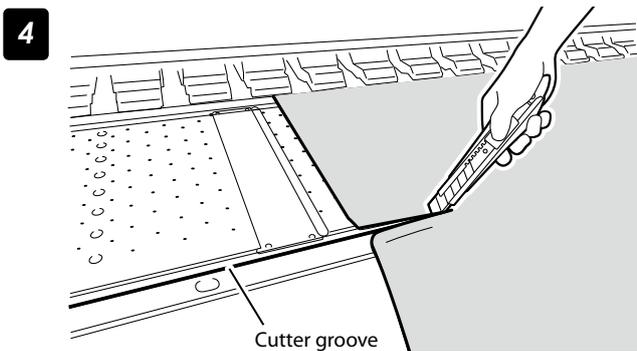
Turn off the take-up direction switch.



Open the tension bar guide's cover.

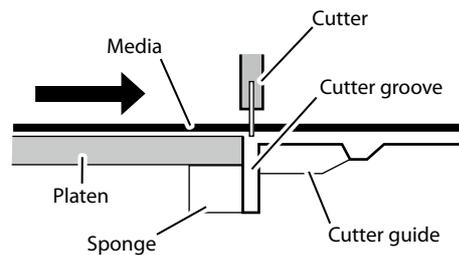


Place the take-up side tension bar at the tension bar hook.



Open the front cover, and then cut the media.

You are recommended to cut the media by setting the cutter blade along the cutter groove.



CAUTION

- A net is spread out on the supply side and take-up side paper guides respectively, so that the media will not adhere to the guides. Do not remove these nets.
- When cutting the media, be careful not to damage the paper guide net.
- Pay attention not to drop the printed media to avoid smearing the media.

5 CLOSE COVER



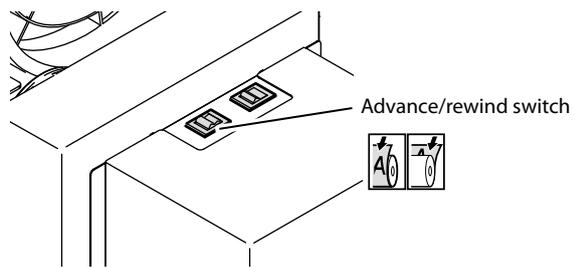
ONLINE

6 ↑INK MEDIA REG↓
←MEDIA M.ADV→



ROLL(Banner)
1625mm

7



Set the Printer to offline state by pressing the **ONLINE** key.

Press the key.

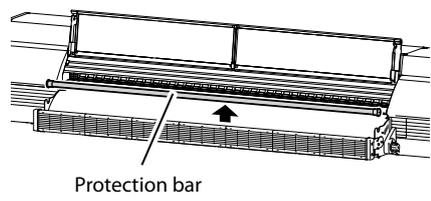
The media advance/rewind switch is activated by selecting the media and setting the take-up reel unit's take-up direction switch.

Wind the media by pressing the takeup-side take-up reel switch.

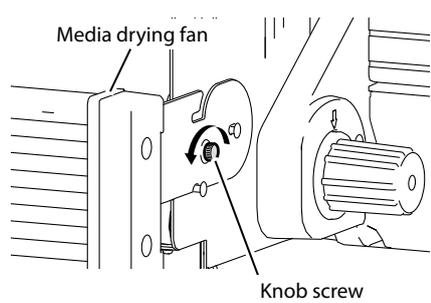


If the wound media diameter is so large that the media touches the media drying fan

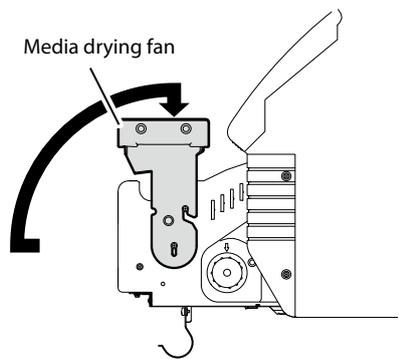
- Move the media drying fan's position with the procedure below.



(1) Remove the protection bar, and then open the front cover.



(2) Loosen the right and left knob screws next to the movable media drying fan.

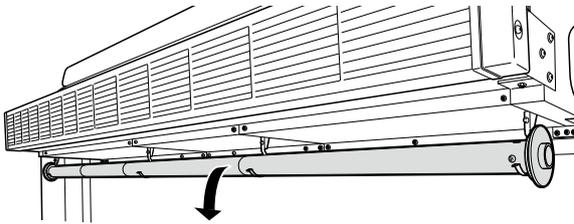


(3) Pull the media dryer fan toward you, and turn it upward by 90 degrees.

When the media drying fan is turned upward, it slightly goes down and is fixed. To return the fan to its original position, pull it up and turn it downward by 90 degrees toward you, and then push and secure it with the knob screws.

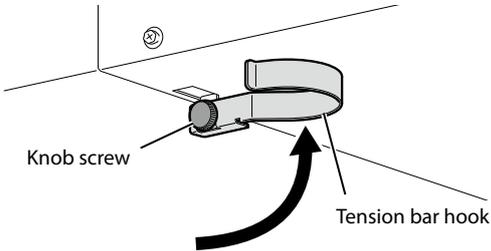
- Turn the media drying fan carefully so that the media drying fan connecting cable does not hung up on the pressure control knob and surrounding sheet metals.

8



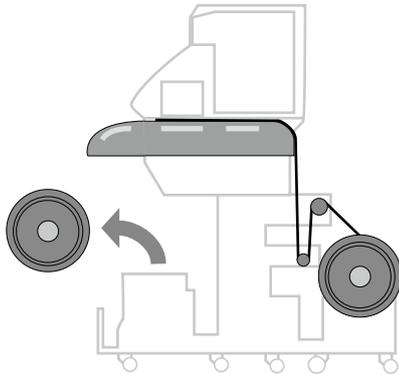
Remove the tension bar from the tension bar hook.

9



Loosen the knob screw of each tension bar hook and extend it laterally.

10

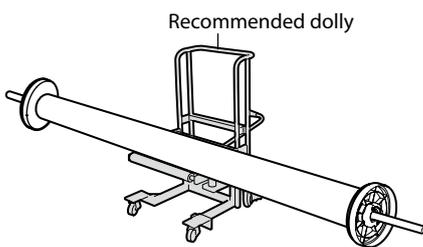


Remove the media from the Printer.

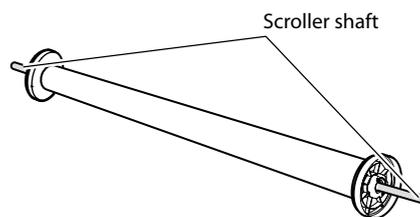
! CAUTION

- Media rolls and scrollers are heavy. To prevent injuries, lifting of these components should always be performed by two or more persons and attention must be paid not to let them fall. Additional persons may be required if these components seem to be too heavy. Lifting objects that are too heavy may lead to physical injuries.
- To prevent injuries when loading or replacing the media, use a dolly equipped with a lifter (recommended dolly). If carried by hand, hold the media by the scroller shaft.
- Be careful not to catch your finger or hand between the Printer and the scroller shaft.

On carrying the media alone:



When carried by two or more persons



Media at supply side



Set the Printer to offline state by pressing the **ONLINE** key.

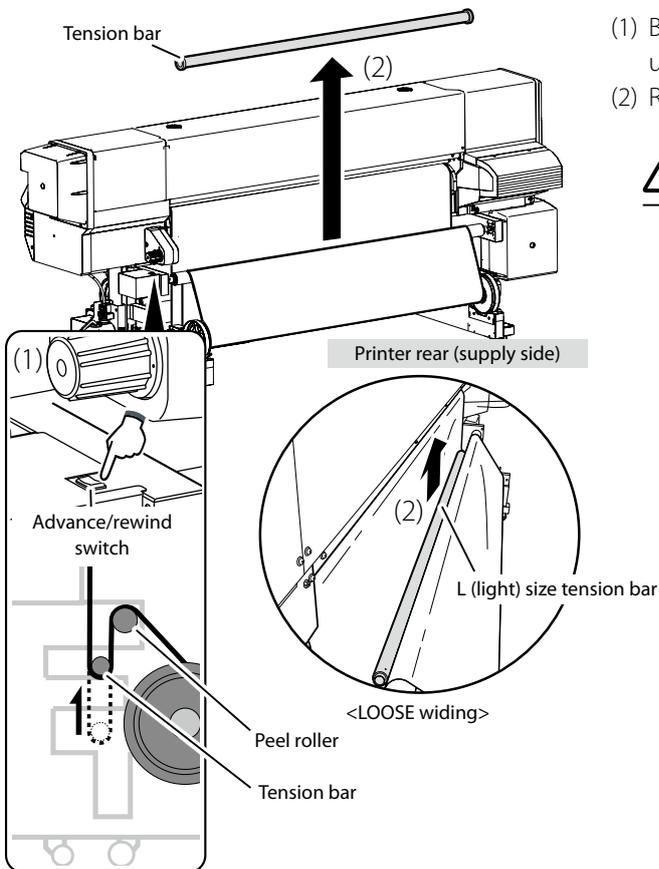


Press the key.

The advance/rewind switch switch is activated by selecting media.



3



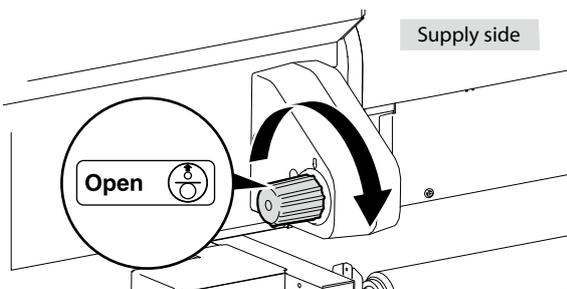
Remove the supply-side tension bar.

- (1) By pressing the media advance/rewind switch, lift up the slack part.
- (2) Remove the supply-side tension bar.

CAUTION

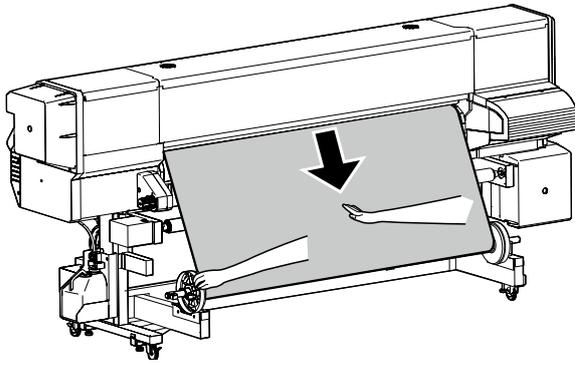
- Do not rotate the peel roller manually with force, or the Printer may be damaged.

4



Set the pressure to "Open" by rotating the pressure control knob.

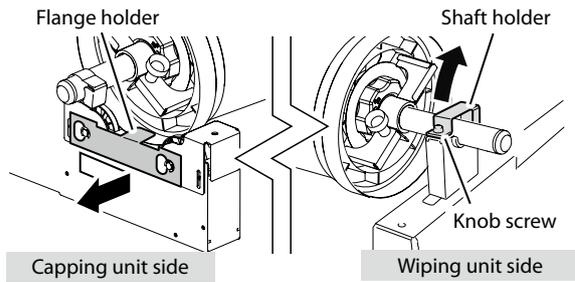
5



Rotate the scroller flange manually to take up the media.

IP-7700 Only

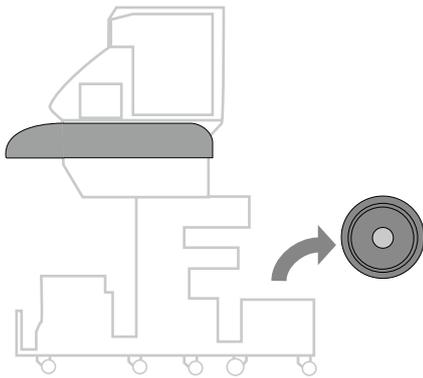
6



Remove the flange holder, and open the shaft holder.

To open the shaft holder, loosen the knob screw.

7

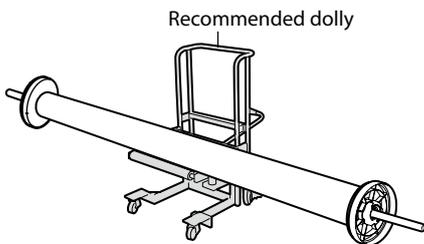


Remove the media roll from the Printer.

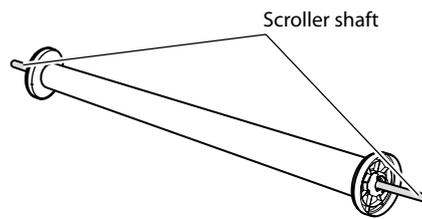
CAUTION

- Media rolls and scrollers are heavy. To prevent injuries, lifting of these components should always be performed by two or more persons and attention must be paid not to let them fall. Additional persons may be required if these components seem to be too heavy. Lifting objects that are too heavy may lead to physical injuries.
- To prevent injuries when loading or replacing the media, use a dolly equipped with a lifter (recommended dolly). If carried by hand, hold the media by the scroller shaft.
- Be careful not to catch your finger or hand between the Printer and the scroller shaft.

On carrying the media alone:



When carried by two or more persons

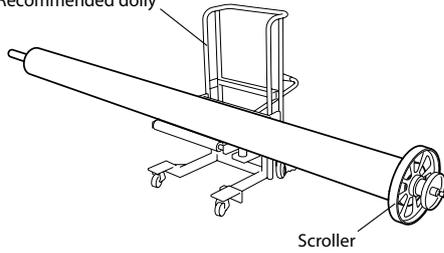


Procedure to remove scroller flange from media roll

H2-104s IP-7900

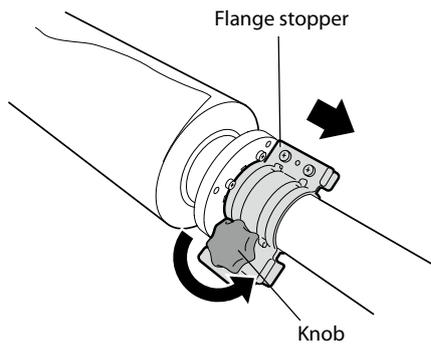
1

Recommended dolly



Put the media roll on the table.

2

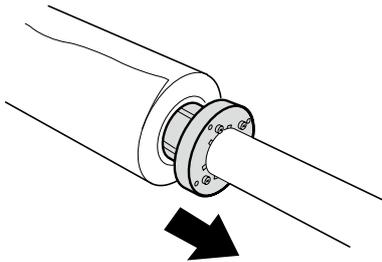


Remove the flange stopper.

! CAUTION

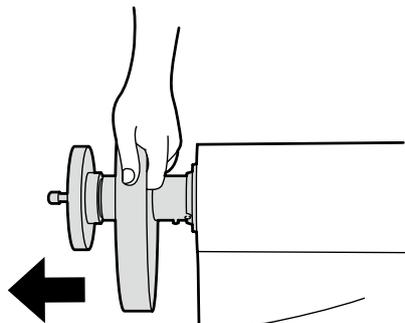
- Hold the knob to move the flange stopper. Holding another part to move the flange stopper may lead to injuries.

3



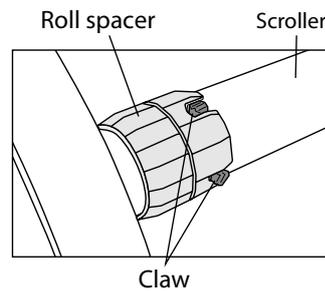
Remove the flange spacer.

4



Remove the scroller.

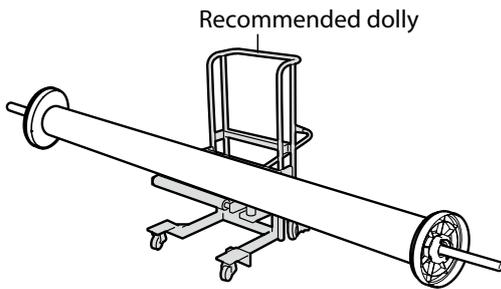
- (1) Rotate the handle counterclockwise.
- (2) When a gap is generated between the handle and the scroller shaft, remove the scroller.



! CAUTION

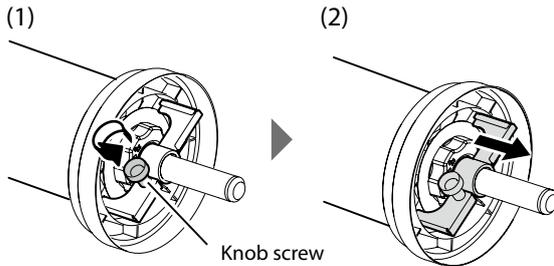
- Do not touch the claw of the scroller.

1



Rest a media roll on the table or on the recommended dolly.

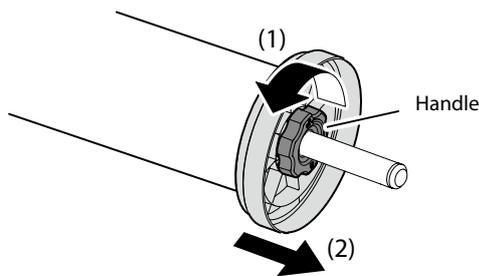
2



Remove the scroller shaft fixture at one side.

- (1) Rotate the knob screw.
- (2) Pull out the scroller shaft fixture from the scroller shaft.

3



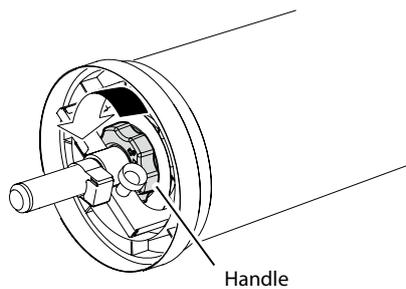
Remove the scroller flange.

- (1) Rotate and loosen the handle.
- (2) Pull out the scroller flange from the scroller shaft.

CAUTION

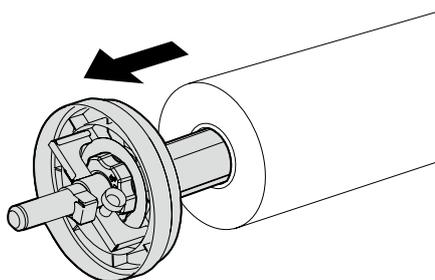
- If you keep loosening the scroller flange handle, it will block at a certain level. Unscrewing the handle beyond that limit may damage the scroller flange. Pay attention when loosening the handle.

4



At the other side, rotate and loosen the scroller flange's handle.

5



Supporting the scroller flange, pull out the scroller shaft.

To print on other media

To print on Vinyl, Mesh banner, Backlit banner (FF), or Solvent printing coated paper

Vinyl

● Winding mode

LOOSE winding mode

● Supply-side tension bar's size

L (light) size

● Printer setting

For glossy vinyl

SELECT MEDIA
MEDIA:Glossy

Media type: Glossy

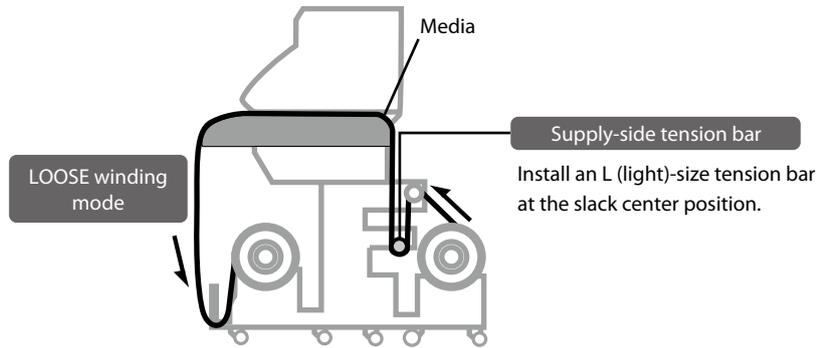
For matte vinyl

SELECT MEDIA
MEDIA:Matte

Media type: Matte

#MEDIA BACK MODE
>01:BACK&FWD

MEDIA BACK MODE: BACK & FWD



Banner

● Winding mode

TENSION winding mode

● Supply-side tension bar's size

Length conforming with the media width

● Printer setting

SELECT MEDIA
MEDIA:Banner

Media type: Banner

#MEDIA BACK MODE
>01:BACK&FWD

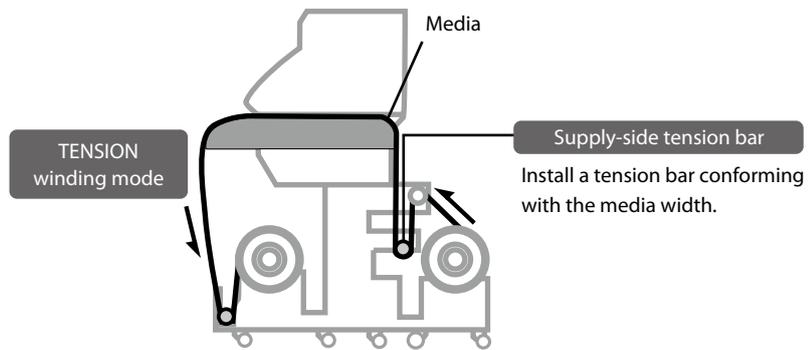
MEDIA BACK MODE: BACK & FWD

#MEDIA ADV MODE
>01:BACK&FWD1

MEDIA ADV MODE: BACK & FWD1

#SUCTION FAN LEVEL
>01:LOW

SUCTION FAN LEVEL: LOW



To prevent media jams ...

- You are recommended to set the afterheater temperature to 50°C or less.
- Be sure to install the take-up reel unit.
- Load the media in TENSION winding mode.
- Set the media advance mode to BACK&FWD1
- Set the suction fan to LOW.

Mesh banner

(backed)

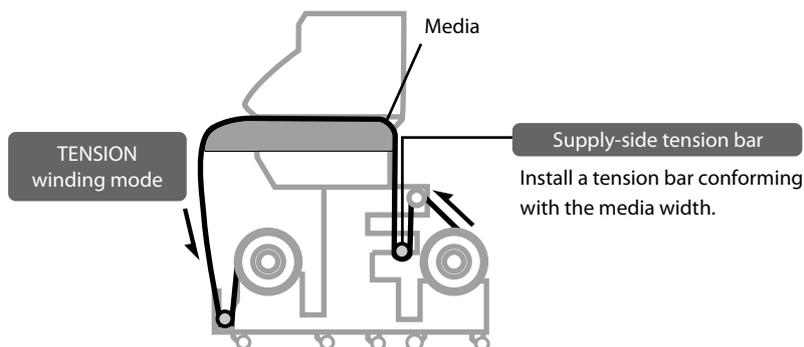
- Winding mode
TENSION winding mode
- Supply-side tension bar's size
Length conforming with the media width
- Printer setting

SELECT MEDIA
MEDIA:Banner

Media type: Banner

#MEDIA BACK MODE
>01:BACK&FWD

MEDIA BACK MODE: BACK & FWD

**For unbacked mesh banner?**

Optional mesh printing kit is required. Load the media referring to "Mesh Printing Kit User's Guide" attached to the kit.

Backlit banner (FF)

- Winding mode
TENSION winding mode
- Supply-side tension bar's size
Length conforming with the media width
- Printer setting

SELECT MEDIA
MEDIA:BLT_B

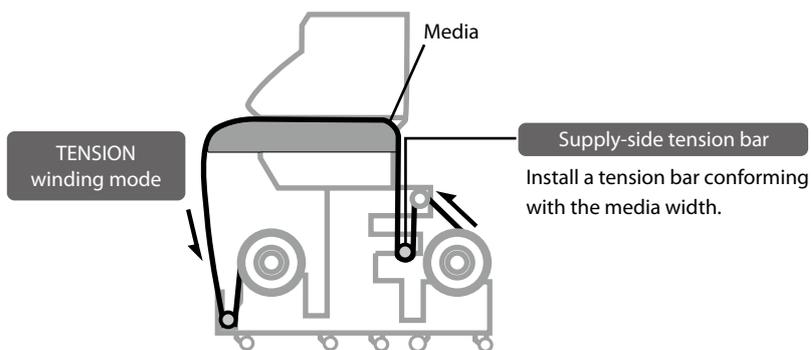
Media type: BLT_B

#MEDIA BACK MODE
>01:BACK&FWD

MEDIA BACK MODE: BACK & FWD

Aft 50 Prn 40 Pre 45
C) 50 C) 40 C) 45

Afterheater: 50°C / Printheater: 40°C /
Preheater: 45°C

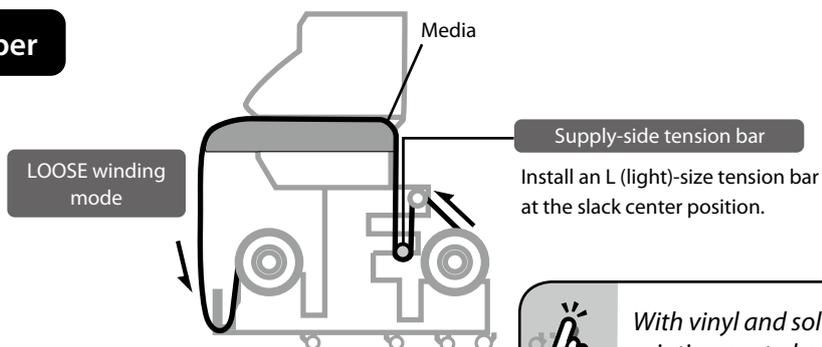
**Solvent printing coated paper**

- Winding mode
LOOSE winding mode
- Supply-side tension bar's size
L (light) size
- Printer setting

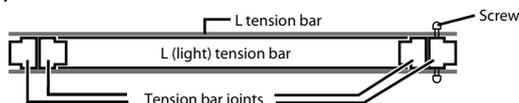
#MEDIA BACK MODE
>01:BACK&FWD

MEDIA BACK MODE: BACK & FWD

#MEDIA ADV MODE
>01:FWD WRINKLEFREE



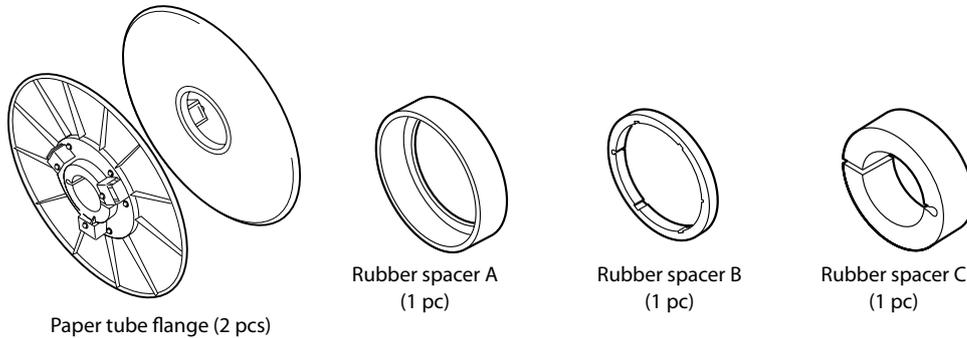
Disassemble the L tension bar and insert the L (light) tension bar into it to adjust the weight of the tension bar.

**With vinyl and solvent printing coated media**

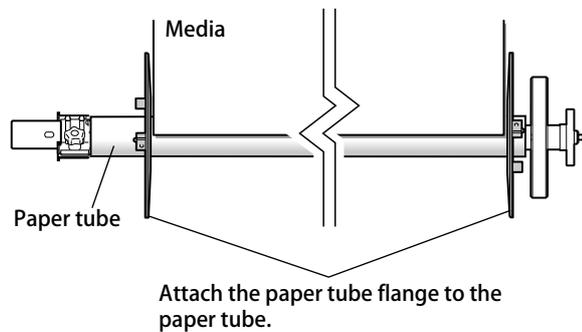
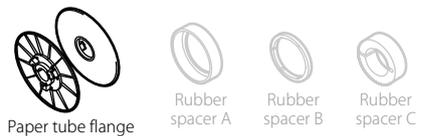
Use the L (light) tension bar regardless of the media width.
- The L (light) tension bar is not equipped with joints and cannot be combined with other tension bars. This bar is to be used with vinyl and solvent printing coated media only.

H2-104s IP-7900

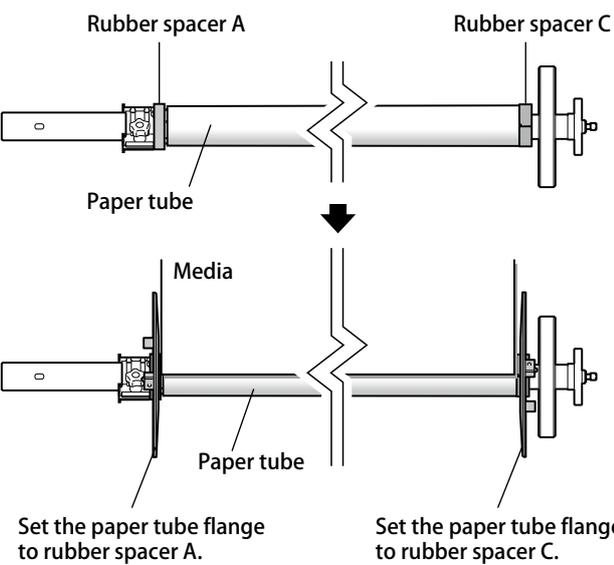
To prevent media winding deviation, set the paper tube flange to the scroller. Note that the rubber spacers are required depending on the paper tube length as explained below.



Paper tube, longer than the media width

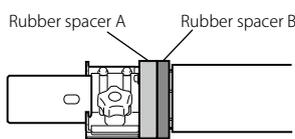


Paper tube, at length conforming with the media width

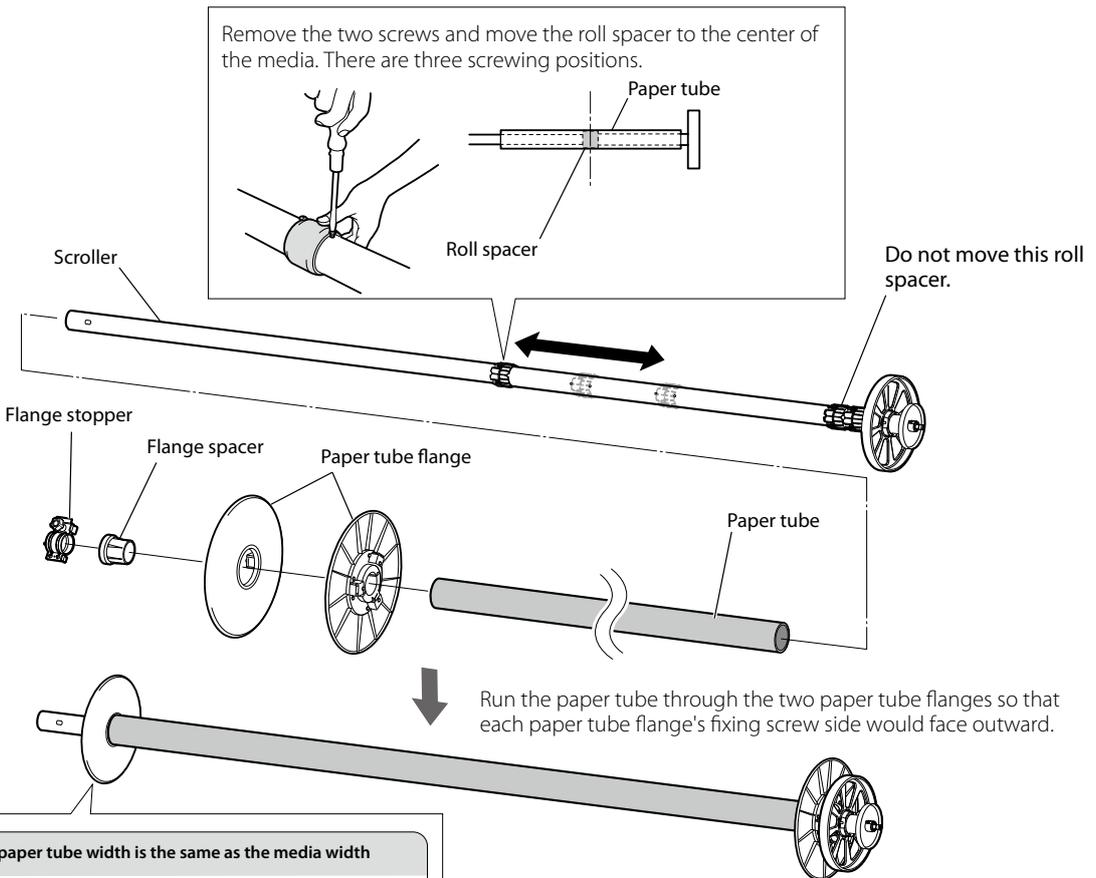


Rubber spacer B's application

When the paper tube's inner diameter is not sufficiently longer than the flange spacer's diameter, the flange spacer cannot be pushed all the way in the paper tube, and the gap may be found between the rubber spacer A and the paper tube edge. In such a case, to clear the gap set the rubber spacer B between the rubber spacer A and the paper tube.



7 Install a paper tube to the scroller.



When the paper tube width is the same as the media width

Confirm that the rubber spacer A is facing the correct orientation, and crown the rubber spacer A on the flange spacer.

- (1) The flange spacer has several protrusions. Push the flange spacer until the protrusions are completely inserted in the paper tube.
- (2) Match the flange stopper with the claw of the flange spacer
- (3) Tighten the knob to secure the flange spacer and the flange stopper.

CAUTION

- Hold the knob to move the flange stopper. Holding another part to move the flange stopper may lead to injuries.

Insert the scroller into the paper tube, determine the distance between the media edge and the flange.

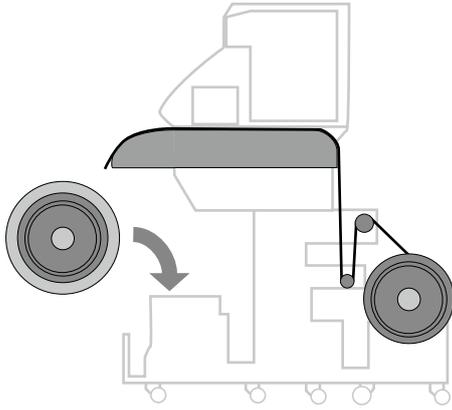
Attach the paper setting gauge's flange side to the flange's spoke side.

Rotate the handle clockwise as far as it will go, and then secure the scroller at the point.

When the paper tube width is the same as the media width

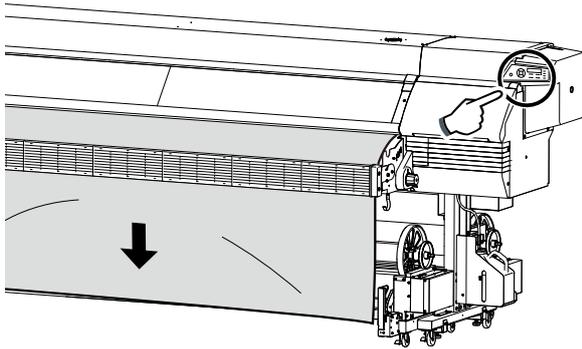
Fix the rubber spacer C to the scroller.

2



Mount the scroller to the take-up roll.
which will make the operation easier from this step.

3



By pressing the  key, feed the media until the front media edge is wound on the paper tube.

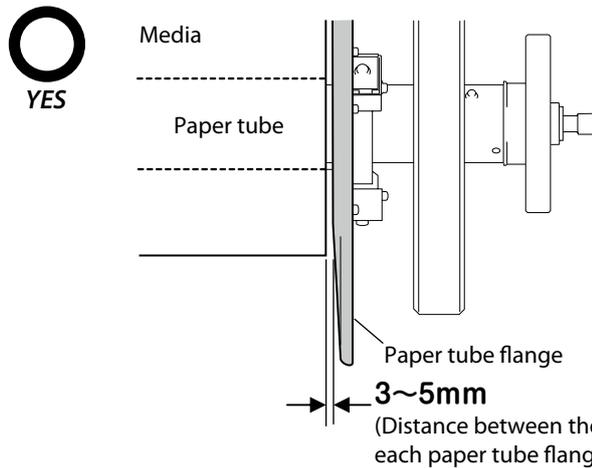
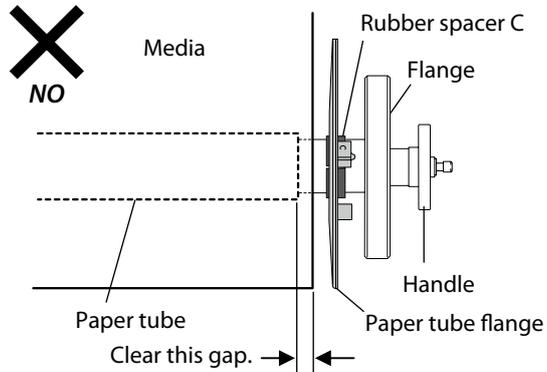
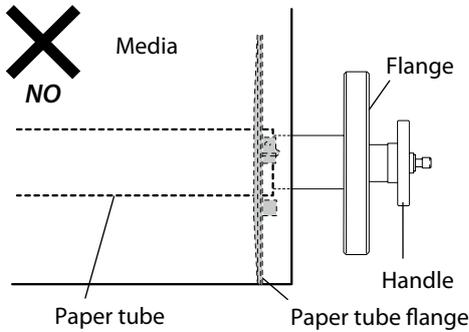
FEEDING MEDIA

4

Adjust the paper tube flange position.

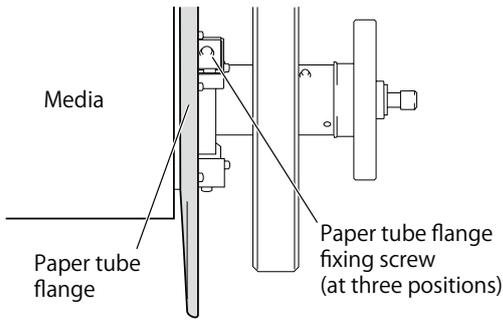
By loosening the handle, adjust the paper tube position or the paper tube flange position so that the distance between the media edge and the two paper tube flanges would be **3 to 5mm**.

After the adjustment, fix the paper tube by rotating the handle.



(Distance between the media edge and each paper tube flange)

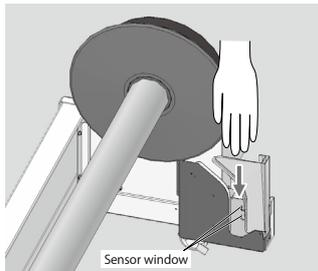
5



Fix the paper tube flange.

Evenly tighten the three screws on the paper tube flange's external side.

6

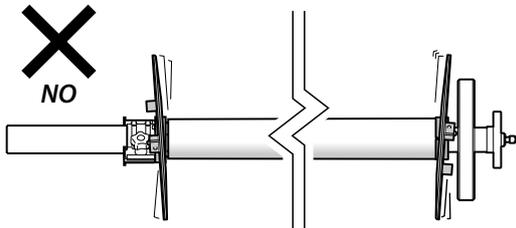


By rotating the take-up roll, confirm that each of the two paper tube flanges does not swing right and left.

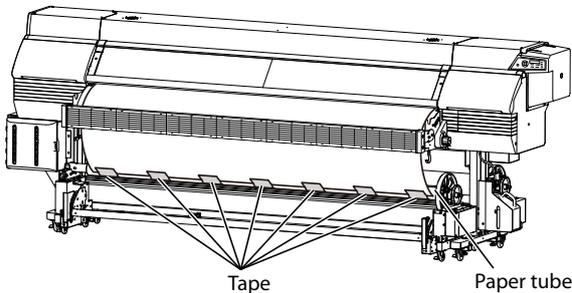


To rotate the take-up roll

- (1) Cover the sensor window by sliding your hand downward as shown by the arrow of the left figure. Note that the take-up roll is rotated only with the sensor's downstroke shielding.
- (2) By keeping the sensor window covered, the take-up roll rotates for 4 seconds and stops.
- (3) When the take-up roll needs to be rotated more, repeat the steps (1) and (2).



7



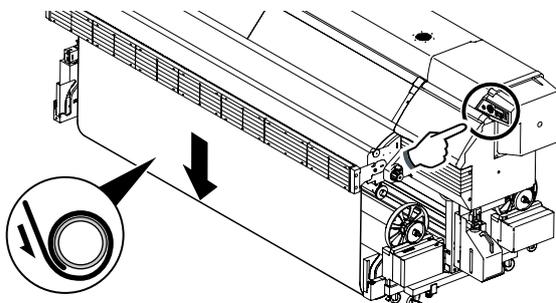
Load media on the paper tube in outer take-up mode.

With adhesive tape, hold the media straight at the center, and then at the rest positions in the direction from the media center to the media edge.

CAUTION

- Ensure that the media is attached with no slant nor slack which will cause the slanting feed.

8



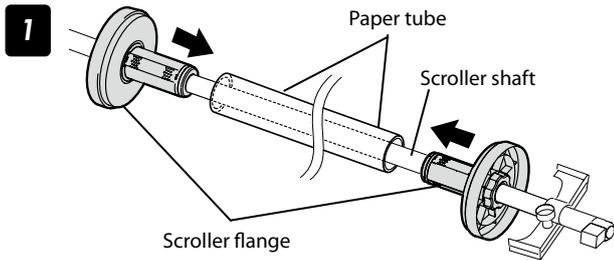
By pressing the  key feed the media, and wind one full turn of the media on the paper tube.

9

Check the paper tube flanges' position, and adjust it if necessary.

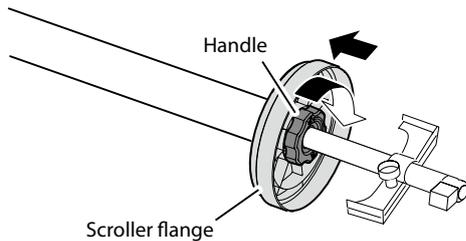
CAUTION

- Apply the paper tube with the same length as the media width.



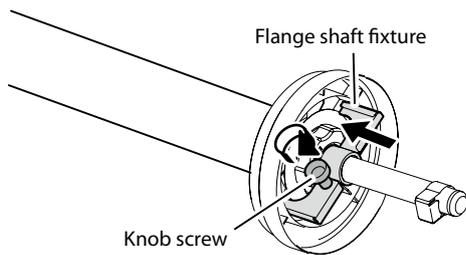
Install the scroller shaft and scroller flange onto the paper tube.

- (1) Pass the scroller shaft through the roll spacer with fixtures at its both sides, scroller flange, and flange shaft fixture.
- (2) Pass the scroller shaft through the paper tube.
- (3) Insert the scroller flanges into the paper tube's both edges as far as they go.
- (4) By rotating the handle fix the scroller flange.

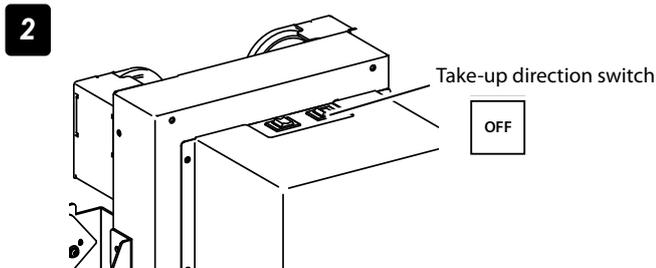


! CAUTION

- If you keep loosening the scroller flange handle, it will block at a certain level. Unscrewing the handle beyond that limit may damage the scroller flange. Pay attention when loosening the handle.



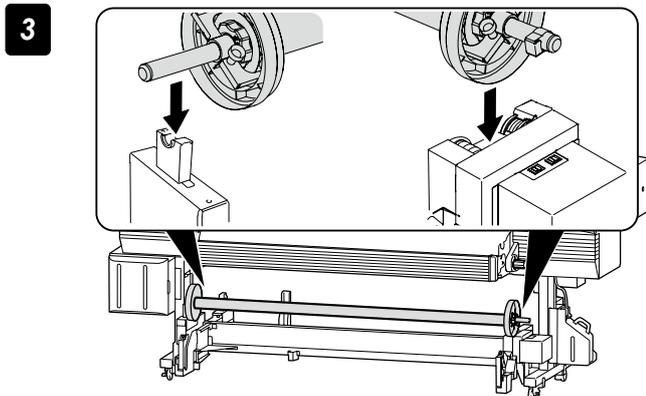
- (5) Cover the scroller flange's convex part with the flange shaft fixture, and push the flange shaft fixture as far as it goes.
- (6) Turn the knob screw to fix the scroller shaft.



Set the take-up direction switch to OFF.

! CAUTION

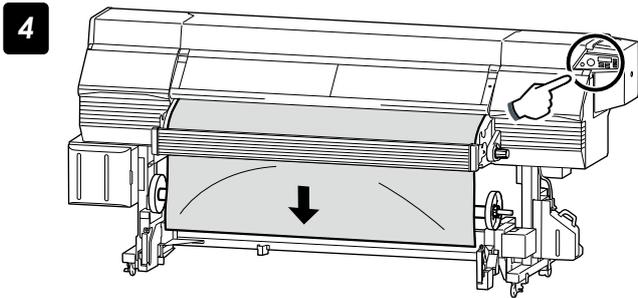
- If the Printer processing proceeds to the next step with the take-up direction switch set to ON, your hand may be caught as the scroller flange is not secured.



Install the paper tube into the Printer's front side (take-up side).

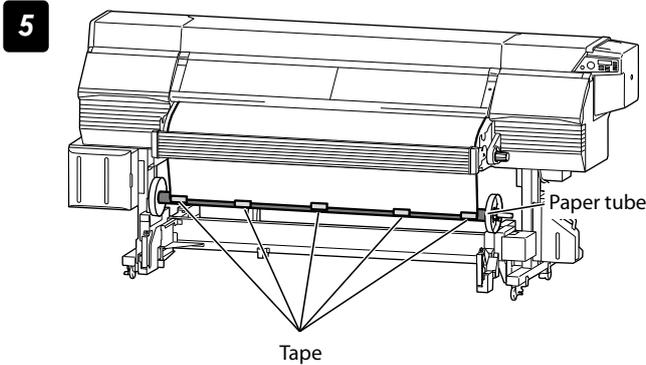
! CAUTION

- Be careful not to trap your hand or fingers between the Printer and scroller shaft.



By pressing the  key, feed the media until the front media edge is wound on the paper tube.

FEEDING MEDIA



Install the printed media to the paper tube.

- (1) Check the take-up direction, remove the slack of the media, and then make sure that the media is not deviated on the supply side and the take-up side.
- (2) Attach the media to the paper tube with adhesive tape. Tape it first at the center, and then at the right and left sides, so that the tension is uniform across the media width and that no wrinkles are found on the media. The taped positions are recommended to be totally three or more.



Inner take-up:
Media is taken up with its print surface coming inside.

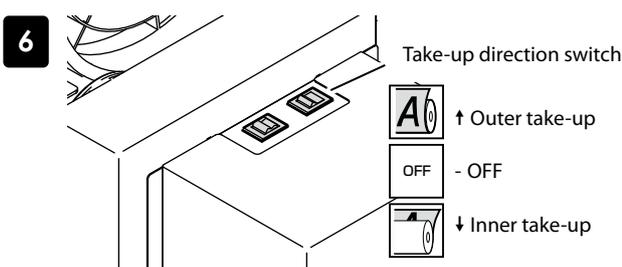


Outer take-up:
Media is taken up with its print surface coming outside.

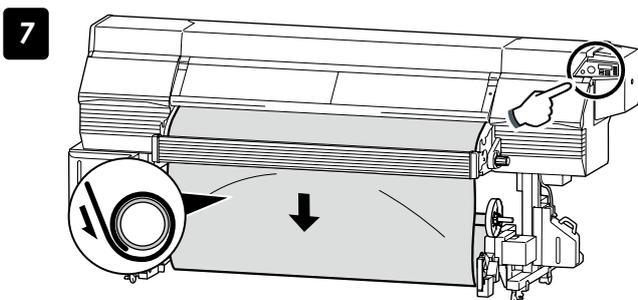


Points to be noted on winding media

- If the media is not installed straight to the paper tube, a skew of media may occur.
- When the take-up direction is set as Inner take-up, the taken-up media's diameter increases and the media cannot backfeed after printing. Select **[FWD ONLY]** beforehand in MEDIA BACK MODE of MEDIA REG MENU. (When the media backfeeds in **[BACK&FWD]** mode, the motor idles and may cause a trouble.)



Set the take-up direction switch according to the take-up direction.



By pressing the  key feed the media, and wind one full turn of the media on the paper tube.

FEEDING MEDIA

8 Input the data in the software RIP.

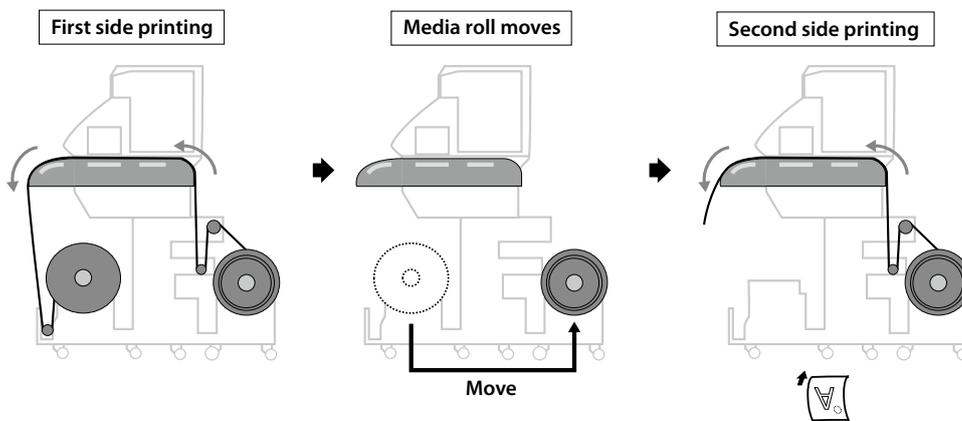
To perform double-sided printing



At double-sided printing

- The Printer does not contain the structure to feed media with correctly applying the media advance adjustment value. So the Printer cannot correctly align the first side image with the second side image.

For convenience of explanation on the double-sided printing below, the side printed first is referred to as the "First side" and the side printed next is referred to as the "Second side." The following procedure is described for the case to print the first side of the media, reinstall the media to the roll feed unit for each media roll that wound the media, and then print the Second side of the media.



1

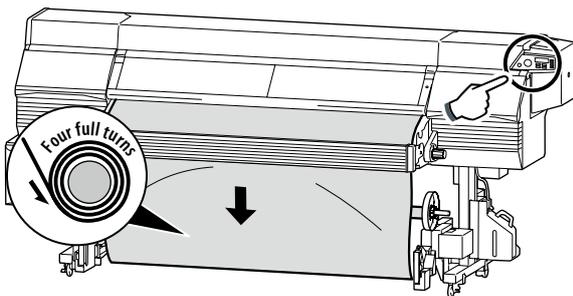
SELECT MEDIA
ROLL/SHEET:FACE

Load the media on the Printer.

For the procedure, see *"To load media on the Printer"* on [page 32](#).

At loading the media, on the operation panel select **[FACE]** with the or keys.

2



Print the rougher side first.

- With a single-sided-printing oriented banner, the roughness grade is different between the front and rear surfaces. To print on such a banner, print on the rougher side first as a first side.

Load the media onto the take-up reel unit.

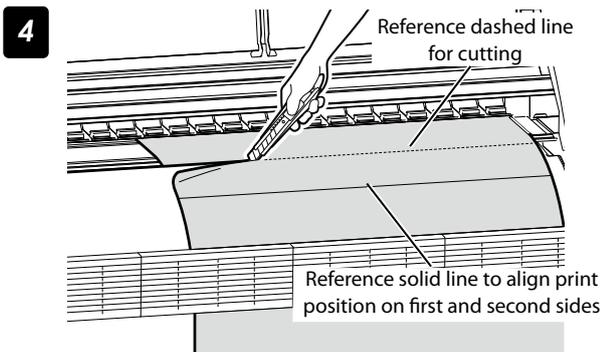
For the procedure to load the media onto the take-up reel unit, see *"To load media on the take-up reel unit"* on [page 42](#).



Wind four full turns of the media on the paper tube.

- Since a margin of approximately 2.5 m or more is required for the second side printing, wind about four full turns of media to the take-up reel unit in advance.

3 Start printing on the first side of the media.



When printing is completed, open the front cover and cut the media.

At the end of the first-side printing, two lines are printed. One line is a reference solid line to match print positions on the first and second sides. The other line is a reference dashed line for cutting.



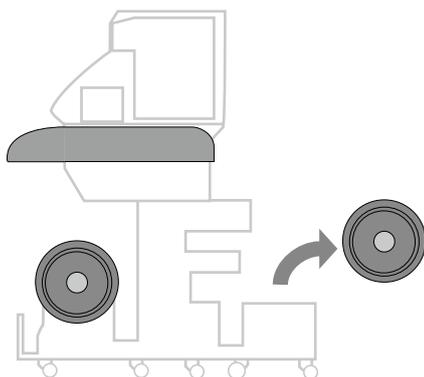
You are recommended to:

- To cut the media, insert the blade of a box cutter into the gap between the platen and the paper guide.
- To easily install the second side of media, mark the position of the reference solid line at the second side's right and left edges.

CAUTION

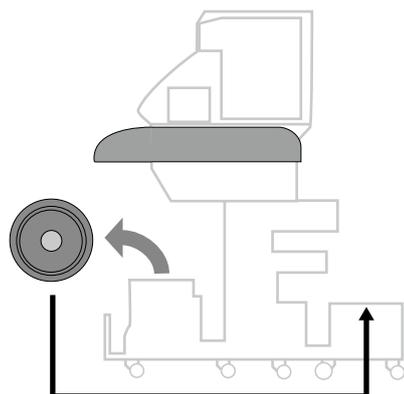
- The drying time of printed media varies depending on printed images. Confirm that printed media has dried, and then proceed to the next operation. Generally, dry the printed first side for three hours or more (24 hours for high-density print), and then start second side printing.
- Pay attention not to drop the printed media to avoid smearing the media.

5



Remove the supply side media roll from the Printer.  See **page 50**.

6



Move the media roll from take-up side to supply side.

Remove the take-up side media roll from the Printer, and move it to the supply side.  See **page 47**.



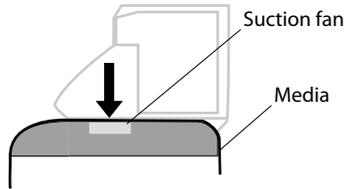
Before starting the second-side printing...

- Go to the operation panel and change the settings of [#SUCTION FAN LEVEL] in accordance with the used media. If the media tends to stick easily, set [#SUCTION FAN LEVEL] to [LOW]. During second-side printing, the Printer operates in [FWD ONLY] regardless of the [#MEDIA ADV MODE] setting.

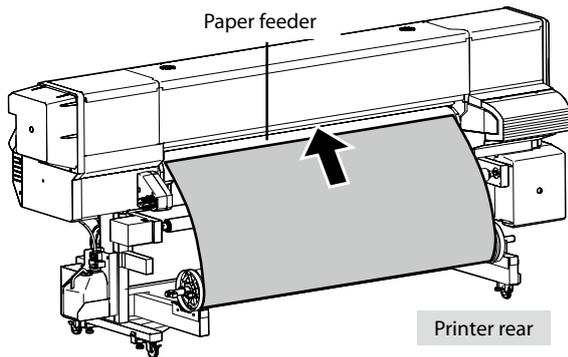
Suction fan: [LOW]



To avoid the irregular media advance, set the suction fan's vacuum pressure to low.



7



Insert the top edge of the media into the Printer.

With extending the media to eliminate the media wrinkle, insert the media end into the paper feeder.

CAUTION

- The slanted or wrinkled media may cause media jam or skew.

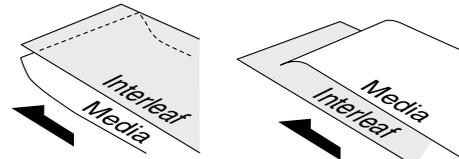


If the media is curled

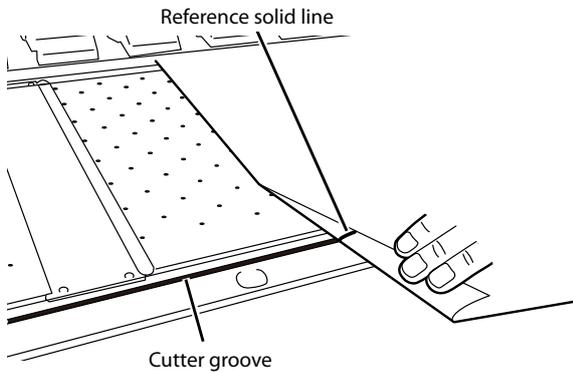
- If it is hard to insert the media end into the paper feeder due to a curl of the media, interpose an interleaf and insert the media end under the interleaf as shown in the figure below.

- Upward curl

- Downward curl



8

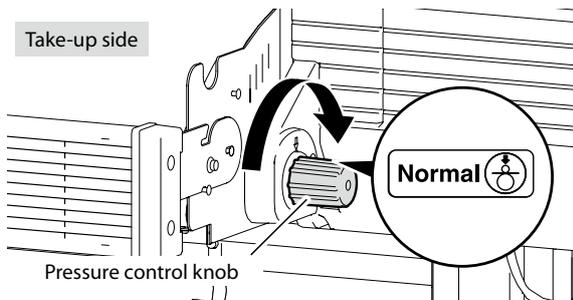


Align the reference solid line with the cutter groove position.

If the line is not aligned at the right and left sides, align it at one side first and hold the position by hand, and then align them at the other side while pulling the media.

9

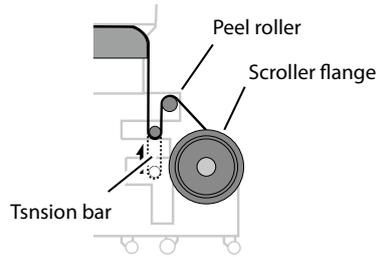
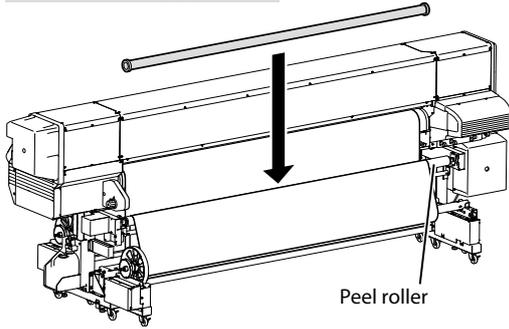
Take-up side



Set the pressure control knob to "Normal".

- 10** Use the advance/rewind switch to create a slack inside the peel roller. Put the supply-side tension bar on the slack of the media at the supply side. See **page 41**.

Printer rear (supply side)



11 CLOSE COVER



CHECK EDGE GUARD
*OK?



12 SELECT MEDIA
ROLL/SHEET:BACK



13 SELECT MEDIA
MEDIA:Banner



14 CHECK
SLACKEN MEDIA



15 PREPARING MEDIA
PLEASE WAIT



- 16** Start printing on the Second side of the media.

Set the media edge guards, and close the front cover.

Select **[BACK]**, and press the key.

With the or keys, select **[BACK]**.

Select the media type.

With the or keys, select the media type.

Check the media slack.

- When the media setting is successfully completed, the Printer returns to online or offline state.
- If the media setting is not completed, an error message appears. Retry the procedure from step **7**.

The print head should be cleaned before starting second side printing.



Check the RIP data.

- Note that the data transfer from the RIP differs by 180 degrees between first side and second side.



Daily maintenance

It must be performed every day to ensure the Printer operates without trouble.

Pay particular attention to the following three items.

- Regularly replenish the wiper cleaning liquid and spittoon absorber liquid.
- Regularly clean the print heads nozzle surfaces using sheet mount cleaning.
- Print heads are highly-precise parts. Do not wipe the nozzle surfaces directly.

Daily maintenance can be executed from the operation panel but we recommend using CP_Manager supplied with the Printer that includes easy-to-understand explanation movies.

The daily maintenance items are listed below.

No.	Item	Daily	Weekly	Monthly	Quarterly
A	Media set	 			
B	Capping unit				
C	Waste ink bottle	 			
D	Cleaning				
E	Nozzle print				
F	Wiper blade		 		
G	Wiper cleaning liquid		 		
H	Spittoon absorber liquid		 		
I	Head guard		 		
J	Media edge guard		 		
K	Exhaust fan filters				
L	Carriage				
M	Clean the exterior (front cover)				
N	Sheet mount cleaning			 	
O	Spittoon case				
P	Dust fan filters				



... Check



... Replenish



... Replace



... Remove



... Set



... Clean

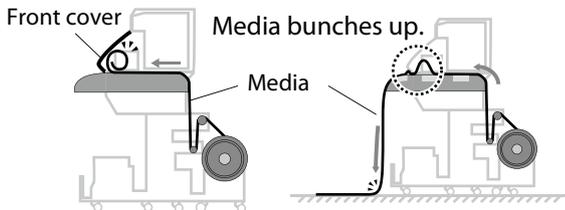


... Panel operation

a Every day

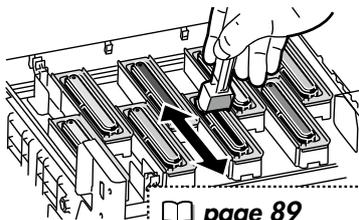
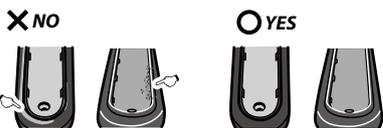
Start Maintenance

A Check that the media does not wrinkle or waves.



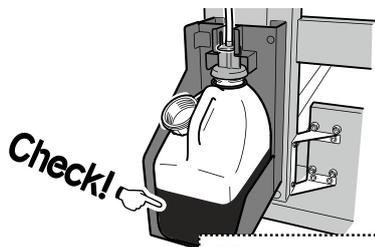
page 72
Check media wrinkles

B Clean the capping unit.



page 89
Clean the capping unit

C Dispose of the waste ink.



Check!

page 91
Check the waste ink bottle

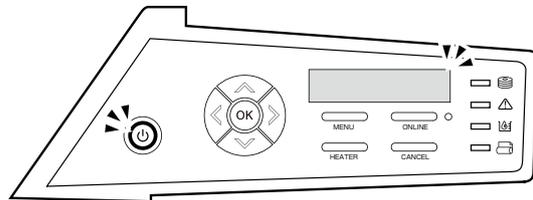
D Clean the print head.

#PH RECOVERY
>NORMAL

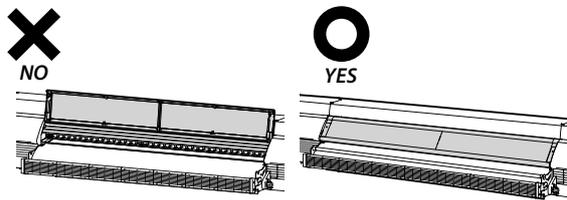
page 91
Performing normal cleaning

After today's operation

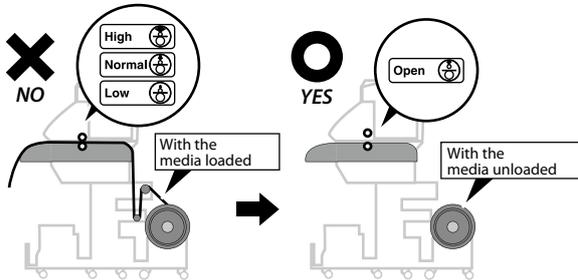
Leave the Printer on.



Close the cover.



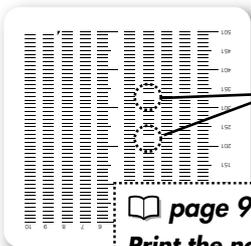
Wind the media.



page 95
Remove the media

E Print the NOZZLE PRINT pattern.

#NOZZLE PRINT
#EXECUTE >



Check!

page 92
Print the nozzle print pattern

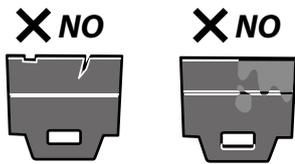
No.	Daily	Weekly	Monthly	Quarterly
a	A	S R		
	B	C		
	C	Eye Icon, Double Arrow Icon		
	D	P		
	E	P		

No.	Daily	Weekly	Monthly	Quarterly
b	F		Eye Icon, Double Arrow Icon	
	G		Eye Icon, Pencil Icon	
	H		Eye Icon, Pencil Icon	
	I		Eye Icon, C	
	J		Eye Icon, C	

b Every week

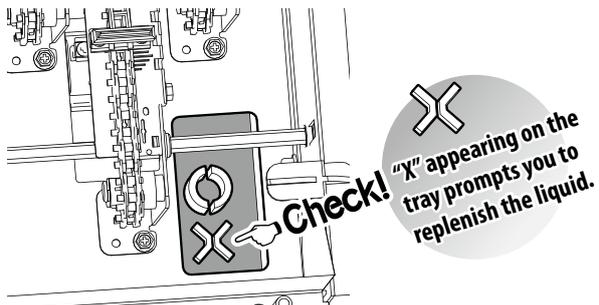
Start Maintenance

F Is the wiper blade dirty?



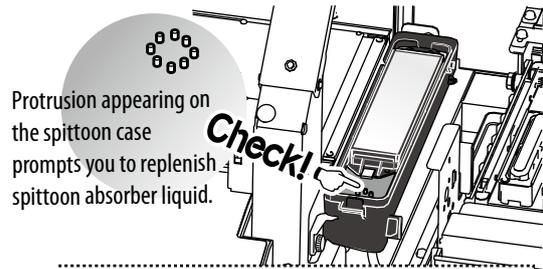
page 82
Check the wiper blade cleanliness

G Is the quantity of wiper cleaning liquid adequate?



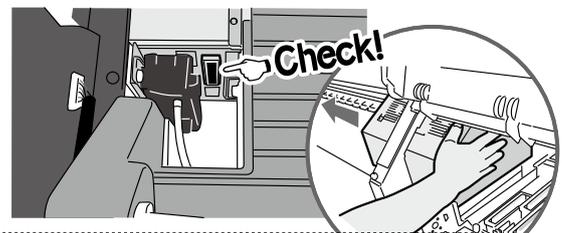
page 83
Replenish the wiper cleaning liquid

H Check the spittoon absorber liquid.



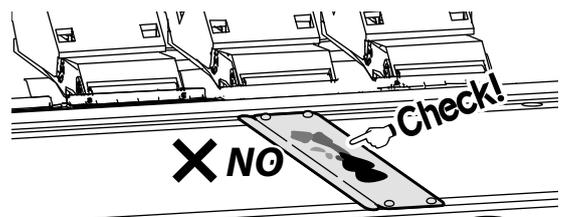
page 84
Replenish spittoon absorber liquid

I Are there particles or dirt on the head guard?



page 87
Clean the head guard

J Check the media edge guards are clean.

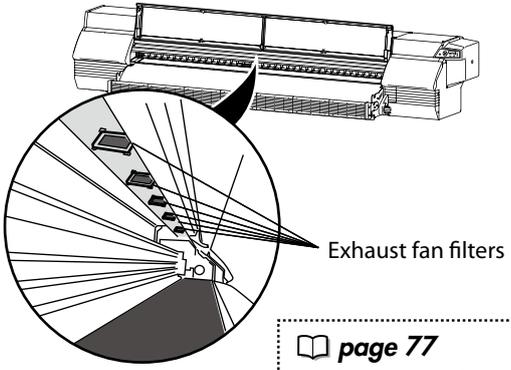


page 86
Cleaning the media edge guard

C Each month

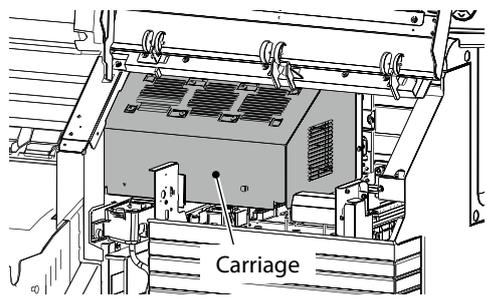
Start Maintenance

K Are the exhaust fan filters dirty?



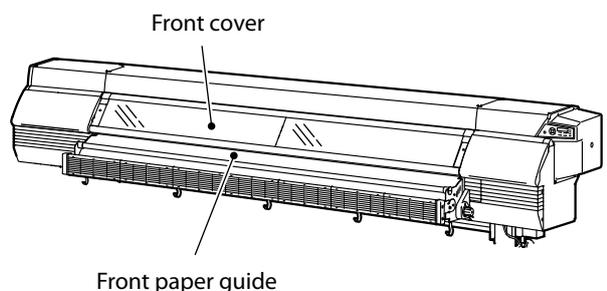
page 77
Replace the exhaust fan filters

L Is the carriage dirty?



page 80
Clean the carriage

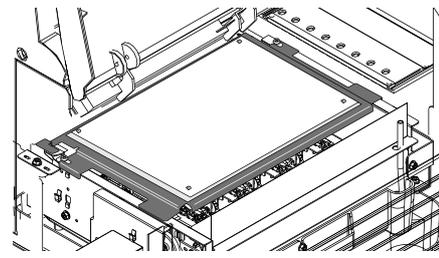
M Are the front cover and other external parts dirty?



page 81
Clean the front cover

Sheet mount cleaning

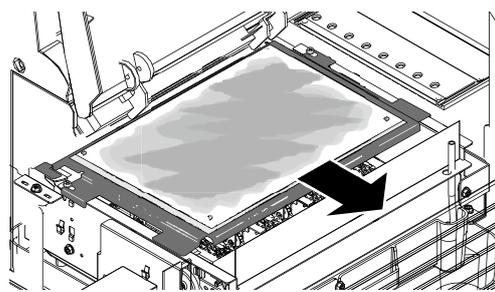
N Clean the print heads using sheet mount cleaning.



page 96
Clean the print heads

After sheet mount cleaning has finished

N Remove the head cleaning sheet.

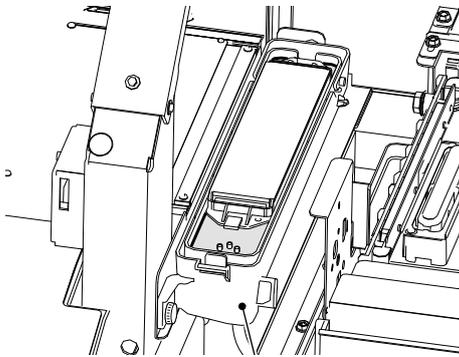


No.	Daily	Weekly	Monthly	Quarterly
C	K			
	L			
	M			
	N			

No.	Daily	Weekly	Monthly	Quarterly
d	O			
	P			

d Quarterly

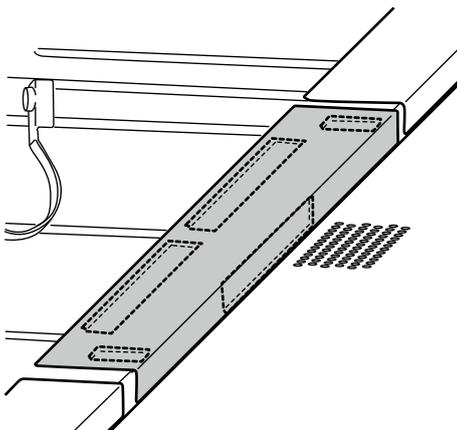
N *Is the spittoon unit dirty?*



page 72

Replace the spittoon unit

O *Are the dust filters dirty?*



page 75

Replace the dust filters

Start Maintenance

Check media 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.

Perform start maintenance



Press the key.



Execute **[#START MAINTENANCE]** to display guidance for the following maintenance items.

Press the key to execute an item or the **CANCEL** key to go to the next item.

Replace the spittoon case/unit

Replace the spittoon case approximately once every three months depending on the amount of dirt on its surface. If a spittoon unit and a tube set are available when replacing the spittoon case, replace them at the same time. (The IP7-167 includes one spittoon unit and one tube for four spittoon cases.) Replace also the spittoon absorber liquid at the same time.



Replace when...

Replace the spittoon case when:

- You find the ink clot accumulated on the spittoon case surface; or
- The net is broken.

When replacing the spittoon case or unit from the operation panel menu, start the procedure from step 1. When replacing while executing **[#START MAINTENANCE]**, start the procedure in step 4.

You will be prompted to replace the spittoon case or unit during the start maintenance guidance after 3 months or 2.5 km of print length.



Press the key.

2 #START MAINTENANCE
>



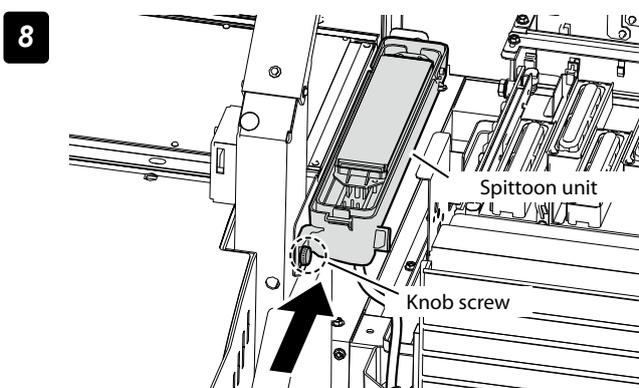
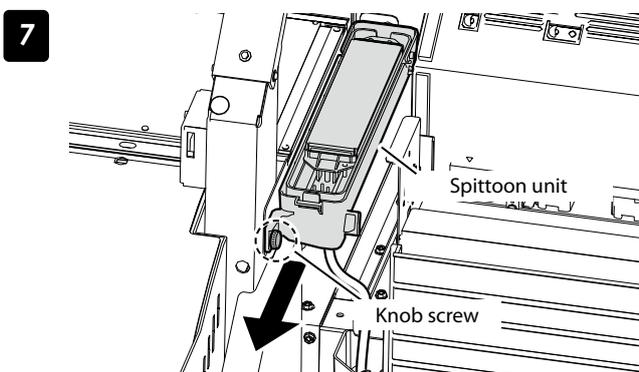
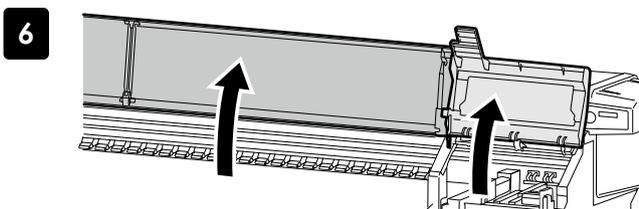
3 # MAINTENANCE
>SPITTOON CASE/UNIT?



4 OPEN COVER



5 SPITTOON REPLACED?
YES: OK/NO: CANCEL



With the  key select [#MAINTENANCE].

Select [SPITTOON CASE/UNIT] and press the  key.

Open the front cover.

After you have finished the replacement procedure described from step 6, press the  key.

Open the front cover and then open the capping cover.

Replace the entire spittoon unit if one is available.

If not available, continue the procedure from step 9.

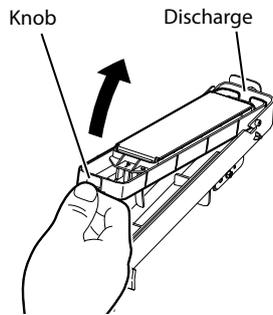
Remove the knob screw of the spittoon unit and remove the spittoon unit.

CAUTION

- The spittoon unit contains cleaning liquid. Be careful not to spill it.

Install the new spittoon unit with the knob screw.

9



Press the knob at the near side of the case containing the spittoon absorber liquid to open the lid, raise the front side of the spittoon absorber liquid case to discharge the spittoon absorber liquid to the backside.

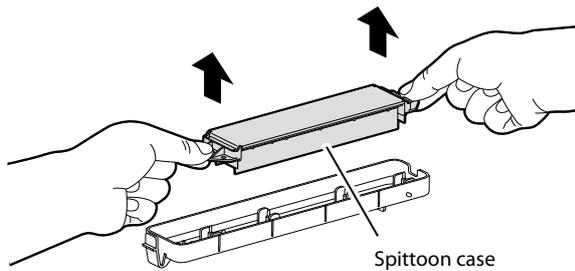
The discharged spittoon absorber liquid will go into the waste ink bottle.

When discharge is completed, put the spittoon absorber liquid case back into the original position.

! CAUTION

- Be sure to wear gloves when performing this operation.

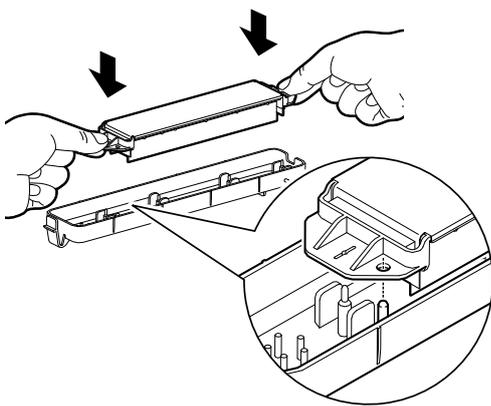
10



Hold the finger grip at the spittoon case's both side.

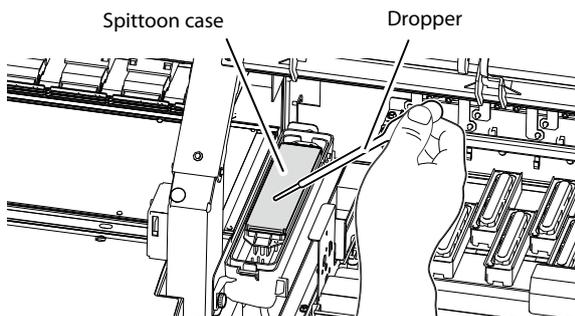
Then remove the spittoon case by lifting upward.

11



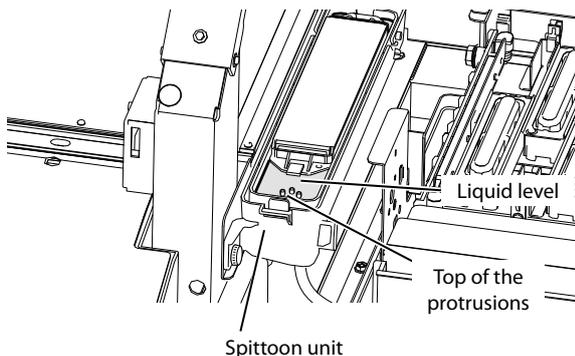
Set a new spittoon case's locating hole to the protrusion, and fix it horizontally by pressing slightly.

12



Moisten the spittoon case with the spittoon absorber liquid using a dropper.

13



Confirm that the spittoon absorber liquid's top surface is as high as the top of the protrusions.

! CAUTION

- In the spittoon case, the spittoon absorber liquid is absorbed by the sponge, which may lower the liquid's top surface.
In such a case apply the liquid additionally.

14

Close the capping cover and then close the front cover.

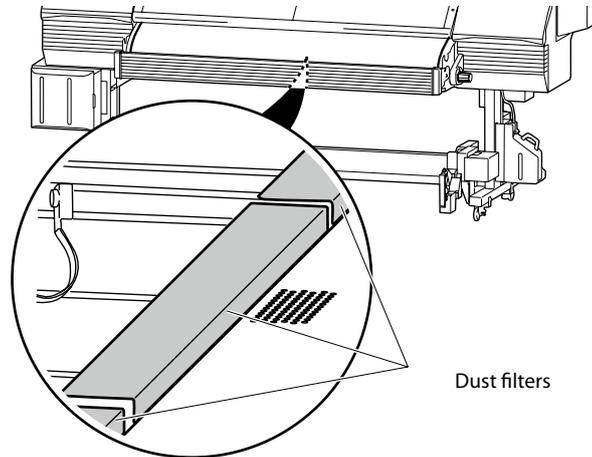
Replace the dust filters

■ Check that the suction fan filters are not encrusted with dust.

Inside the Printer, exhaust fan filters also called dust filters are attached to:

- the four air exhaust outlets of the suction fan with the IP-7900-20/21; or
- the three air exhaust outlets of the suction fan with IP-7700-20/21

Replace all the dust filters approximately every three months.



When replacing the dust filters from the operation panel menu, start the procedure from step 1. When replacing while executing **[#START MAINTENANCE]**, start the procedure in step 6.

You will be prompted to replace the dust filters during the start maintenance guidance after 3 months or 2.5 km of print length.

1

Press the key.



2

With the key scroll to **[#MAINTENANCE]**.



3

Press the key.



4

Press the key.



5

Select **[DUST FILTER]** and press the key.

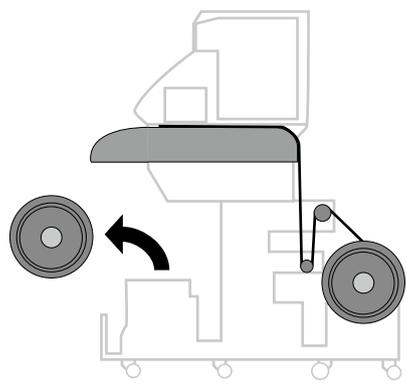


6 DUST FILTER CHECKED?
YES: OK/NO: CANCEL



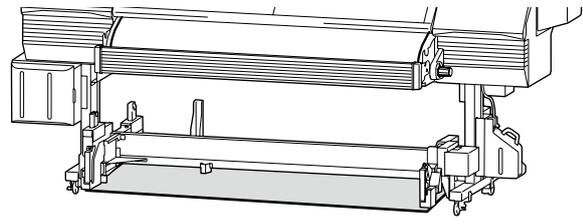
Press the **OK** key.

7



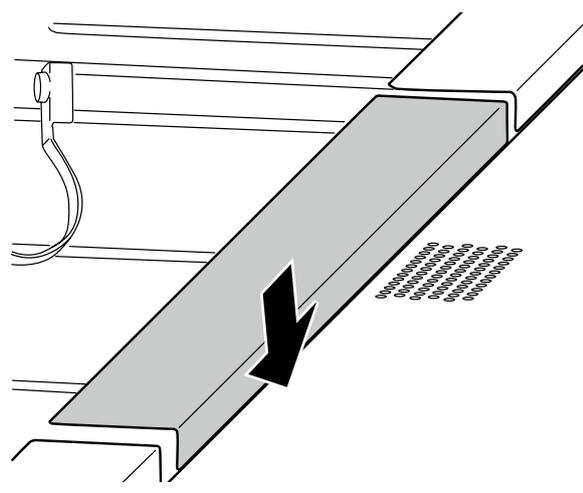
When the media is installed on the take-up reel unit, remove the media.

8



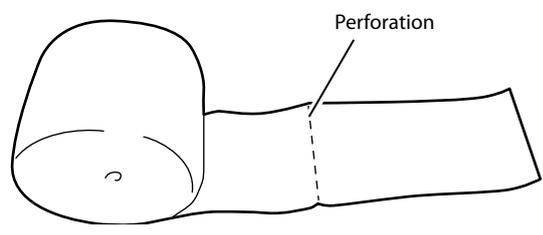
By spreading an unnecessary media or cloth on the floor, prevent the floor from being smeared with the ink clot dropped from the old suction fan filters.

9



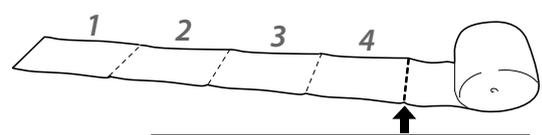
Remove the old suction fan filters from the hook-and-loop fastener.
If the old filter's lint is left on the hook-and-loop fastener, remove it.

10



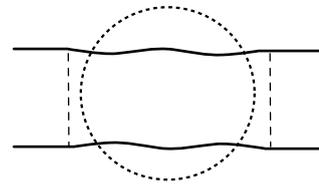
From a new filter roll, along perforation tear off the amount required for the replacement.

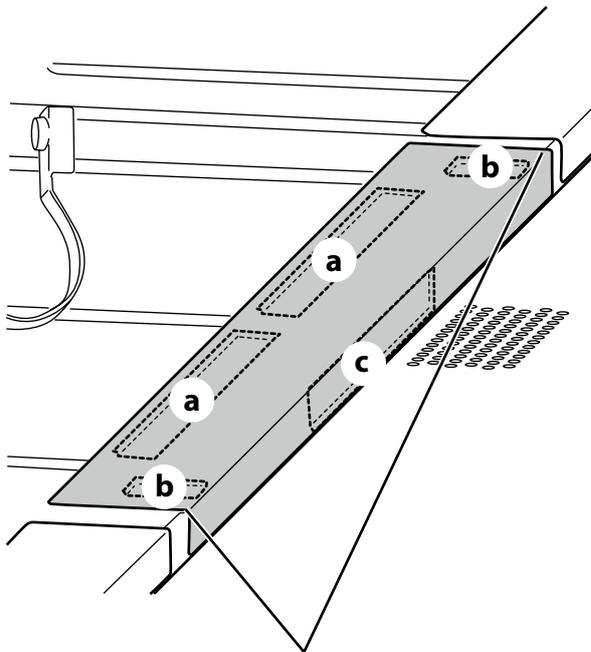
Note that one exhaust fan requires four sheets of filter.



Tear off along the forth perforation.

The filter's edge may be deformed, but it does not affect the filter's quality and performance.





The longer side of the dust filter is slightly longer than the sheet metal.

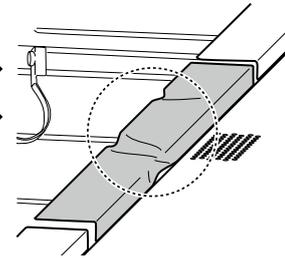
Install the new dust filters.

- (1) Align the center of the dust filter's longer side with the center of the sheet metal surface with the hook-and-loop fasteners **(a)** and **(b)** attached.
- (2) Attach the dust filter to the hook-and-loop fasteners **(a)** so that the edges of the dust filter and the hook-and-loop fasteners **(a)** are aligned.
- (3) Attach the dust filter to the hook-and-loop fasteners **(b)**.
- (4) Fold the dust filter along the sheet metal's corner, and attach the dust filter to the hook-and-loop fastener **(c)**.



NOTE

- Attach the dust filter as flat as possible, eliminating the filter's wave.



Replace the exhaust fan filters

■ Check that the exhaust fan filters are not encrusted with dust.

Exhaust fan filters are attached to:

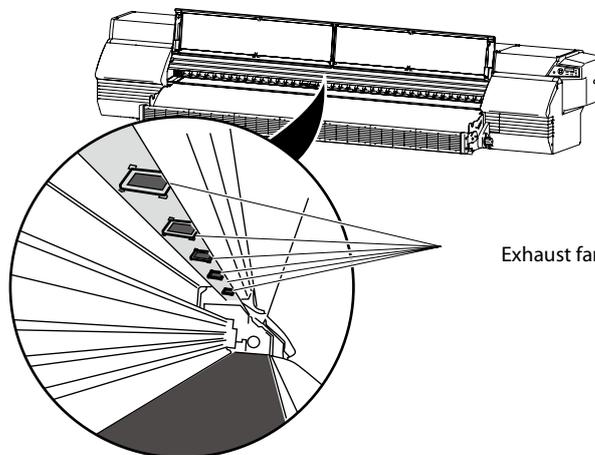
- the six fresh air inlets of the fan to emit the Printer's ink odor with the IP-7900-20/21; or
- the four fresh air inlets of the fan to emit the Printer's ink odor with the IP-7700-20/21

Replace all exhaust fan filters approximately each month or after 800 m of total print length.



To check the accumulated print distance ...

See the Advanced Operation Guide "Check the total print distance" on the page 25.



Exhaust fan filters

When replacing the exhaust fan filters from the operation panel menu, start the procedure from step 1. When replacing while executing **[#START MAINTENANCE]**, start the procedure in step 6. You will be prompted to replace the exhaust fan filters during the start maintenance guidance after 1 month or 0.8 km of print length.



Press the key.



With the key scroll to **[#MAINTENANCE]**.



Press the key.



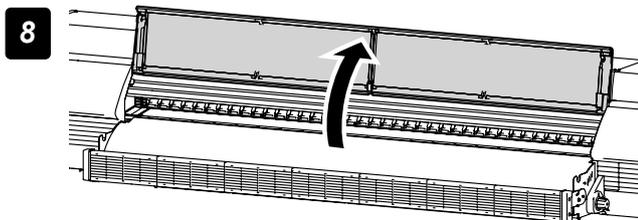
Press the key.



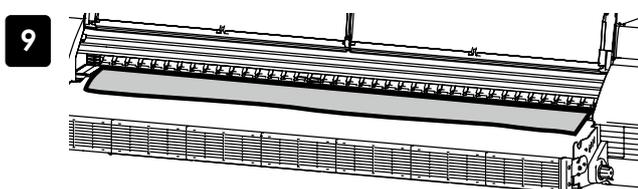
Select **[EXHAUST FAN FILTER]**, and press the key.



After you have finished the replacement procedure described from step 8, press the key.

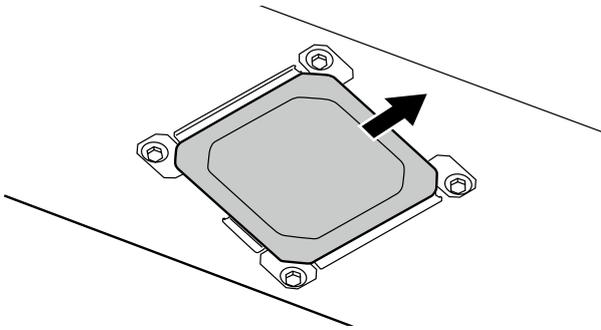


Open the front cover.



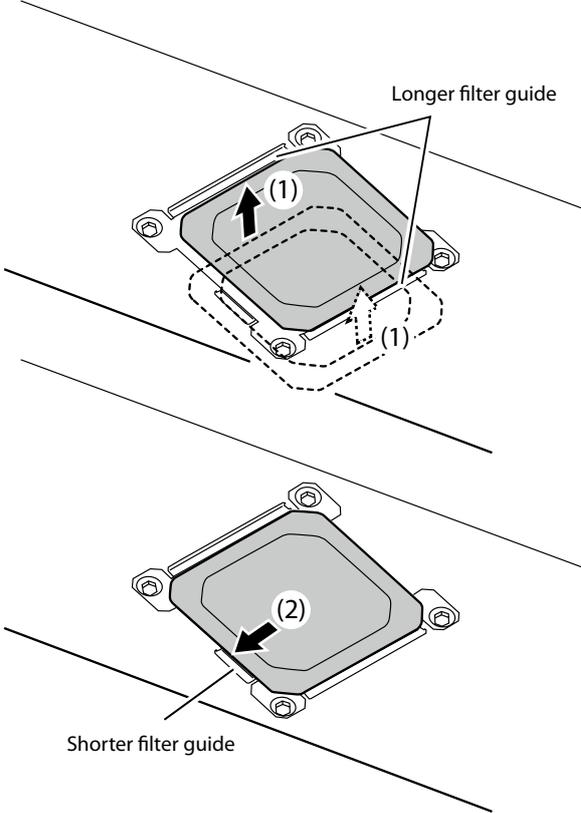
By installing an unnecessary media or cloth on the platen, prevent the Printer from being smeared with the dust accumulated on the exhaust fan filters.

10



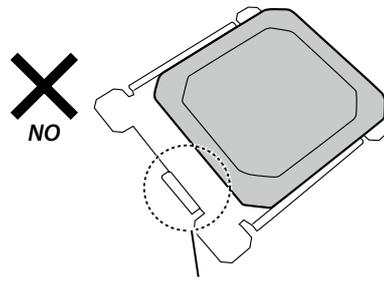
Remove the old exhaust fan filters.

11



Install the new exhaust fan filters.

- (1) With the brown magnetic side facing upward, set the filter's one side along one of the two longer filter guides. Then set the filter's opposite side to the other longer filter guides.
- (2) Slide the exhaust fan filter until it touches the shorter filter guide.



The filter does not touch the shorter filter guide.

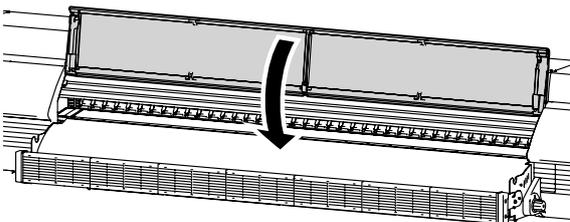
NOTE

- Set the exhaust fan filter so that it is not placed on the filter guide.

CAUTION

- The improper installation of the exhaust fan filters may affect the Printer's adjustment or cause the Printer's malfunction.

12



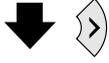
Remove the media or cloth installed at the step 3, and close the front cover.

Carriage cleaning

When executing the carriage cleaning from the operation panel menu, start the procedure from step 1. When cleaning the carriage while executing **[#START MAINTENANCE]**, start the procedure in step 6. You will be prompted to clean the carriage during the start maintenance guidance after 1 month or 0.8 km of print length.



Press the key.



With the key scroll to **[#MAINTENANCE]**.



Press the key.



Press the key.



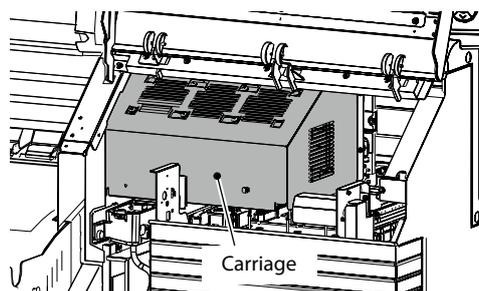
Select **[CARRIAGE]**, and press the key.



Press the key.



8 Vacuum the dust off the carriage's fresh air inlet. Monthly cleaning is recommended.



Clean the exterior (front cover)

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

CAUTION

- Do not blow off dust and paper dust as they may degrade print quality.
- Never use volatile solvent such as thinner and benzene. The coating may come off or discolor.

When executing cleaning of the exterior from the operation panel menu, start the procedure from step 1. When cleaning the exterior while executing **[#START MAINTENANCE]**, start the procedure in step 6.

You will be prompted to clean the exterior during the start maintenance guidance after 1 month or 0.8 km of print length.



Press the  key.



With the  key scroll to **[#MAINTENANCE]**.



Press the  key.



Press the  key.

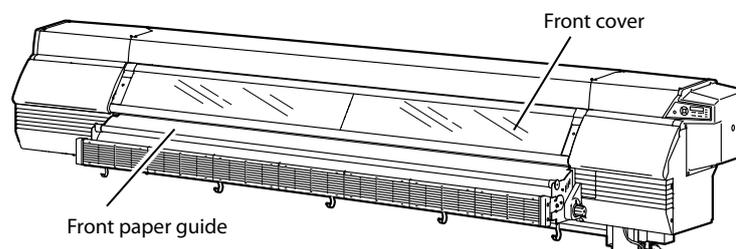


Select **[EXTERIOR]**, and press the  key.



After you have finished the replacement procedure described from step 7, press the  key.

- 7** If the Printer is smeared with dust and paper dust, remove them using a vacuum cleaner. If the contamination is heavy, wipe it out with a soft cloth moistened with neutral detergent.



Check for dirt or damage on the wiper blade

When checking the wiper blade from the operation panel menu, start the procedure from step 1. When checking the wiper blade while executing **[#START MAINTENANCE]**, start the procedure in step 6.



Press the  key.



With the  key scroll to **[#MAINTENANCE]**.



Press the  key.



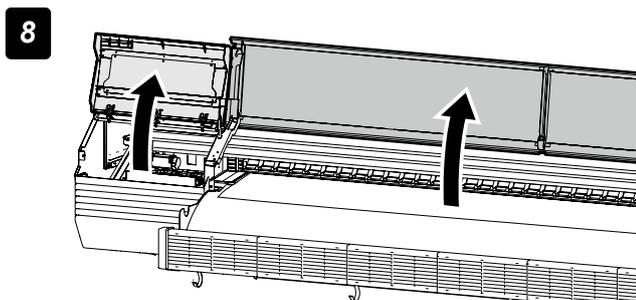
Press the  key.



Select **[WIPER BLADE]**, and press the  key.

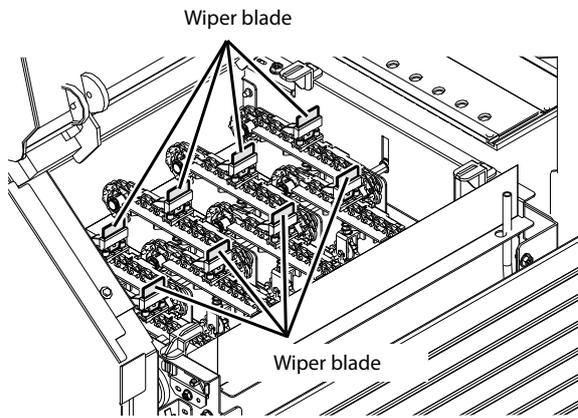


After you have finished the replacement procedure described from step 8, press the  key.

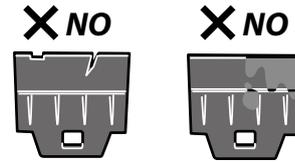


Open the front cover, and then open the wiper cover.

9



Visually check the wiper blade for contamination and scratches.



If the wiper blade is stained or scratched, replace it. See "Replace a wiper blade" on the page 118.

Replenish the wiper cleaning liquid

When replenishing the wiper cleaning liquid from the operation panel menu, start the procedure from step 1. When replenishing the wiper cleaning liquid while executing **[#START MAINTENANCE]**, start the procedure in step 6.

1 ↑REWIND FORM FEED↓
←PH.REC PH.MAIN→



Press the key.

2 #START MAINTENANCE
>



With the key scroll to **[#MAINTENANCE]**.

3 # MAINTENANCE
>SPITTOON CASE/UNIT?



Press the key.

4 # MAINTENANCE
>SPITTOON CASE/UNIT?



Press the key.

5 # MAINTENANCE
>WIPER LIQUID?



Select **[WIPER LIQUID]**, and press the key.

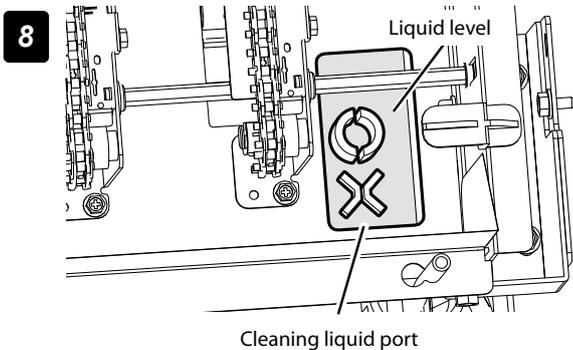
6 OPEN COVER



7 WIPE LIQUID CHECKED?
YES: OK/NO: CANCEL



After you have finished the replacement procedure described from step 7, press the key.



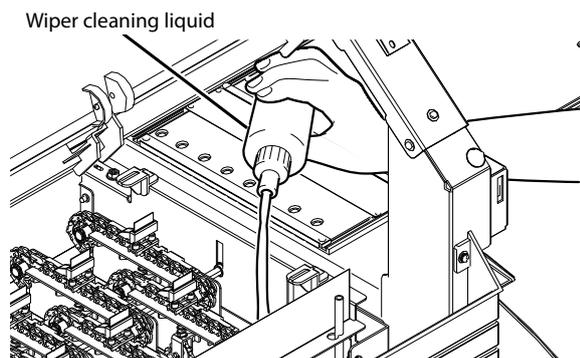
Check the wiper cleaning liquid level.

Check that the cleaning liquid supply hole is at the top face's lower right of the wiping unit.



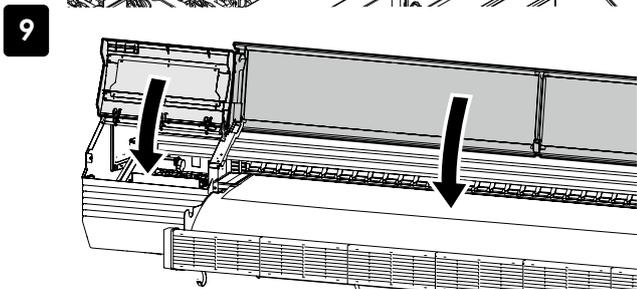
Two types of bottle

- Wiper cleaning liquid is supplied in two different types of bottle. If you find it not convenient to directly replenish the liquid with the bigger 300 ml bottle, first transfer the liquid in the wiper cleaning liquid bottle of 200 ml included in the daily maintenance kit to make the operation easier.



When the cleaning liquid level is lower than the "X" mark's top edge, replenish the wiper cleaning liquid.

Replenish the liquid so that the cleaning liquid level is lower than the "O" mark's top edge.



Close the wiper cover and the front cover.

CAUTION

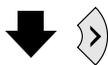
- Be sure to unlock the stopper before closing the wiping cover. If you try to close the wiping cover without unlocking the stopper, the stopper may bend, or the bent stopper may touch the carriage, which may damage the Printer.

Replenish spittoon absorber liquid

When replenishing the spittoon absorber liquid from the operation panel menu, start the procedure from step 1. When replenishing the spittoon absorber liquid while executing **[#START MAINTENANCE]**, start the procedure in step 6.



Press the key.



With the key scroll to **[#MAINTENANCE]**.



Press the key.



4 #MAINTENANCE
>SPITTOON CASE/UNIT?



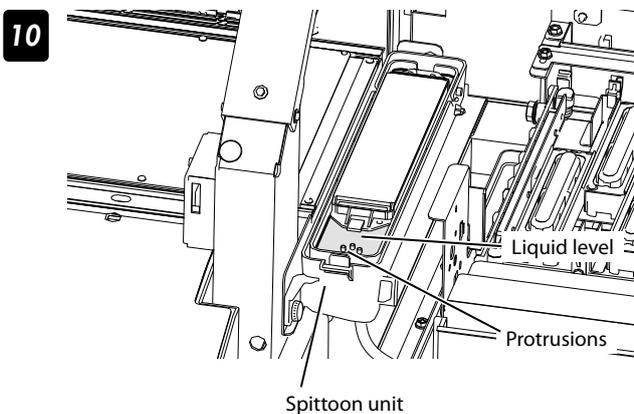
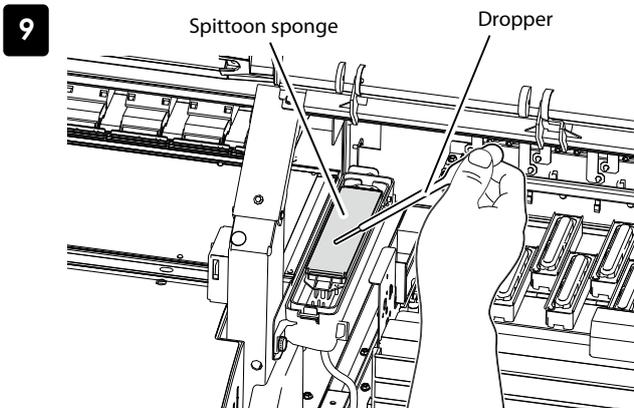
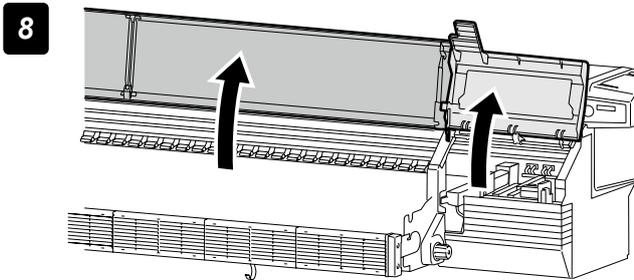
5 #MAINTENANCE
>SPITTOON LIQUID?



6 OPEN COVER



7 SPITT. LIQUID CHKED?
YES: OK/NO: CANCEL



Press the  key.

Select [**SPITTOON LIQUID**], and press the  key.

After you have finished the replacement procedure described from step 8, press the  key.

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

With a dropper, moisten the spittoon sponge with the spittoon absorber liquid.

Pour the spittoon absorber liquid into the spittoon case until the liquid level is as high as the indication protrusions.

NOTE

- A few minutes after pouring the spittoon absorber liquid into the spittoon case, the spittoon absorber sponge absorbs the liquid and the liquid level is lowered. In such a case, again add the spittoon absorber liquid.

Cleaning the media edge guard

When executing cleaning of the media edge guards from the operation panel menu, start the procedure from step 1.

When cleaning the media edge guards while executing **[#START MAINTENANCE]**, start the procedure in step 6.



Press the  key.



With the  key scroll to **[#MAINTENANCE]**.



Press the  key.



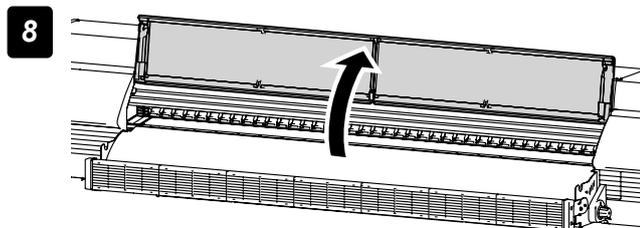
Press the  key.



Select **[MEDIA EDGE GUARD]**, and press the  key.

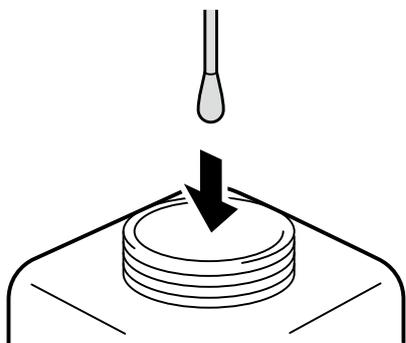


After you have finished the replacement procedure described from step 8, press the  key.



Open the front cover.

9

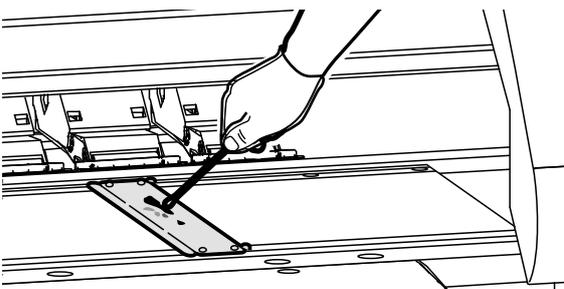


Dip a cleaning swab in the cap cleaning liquid.

**TIP**

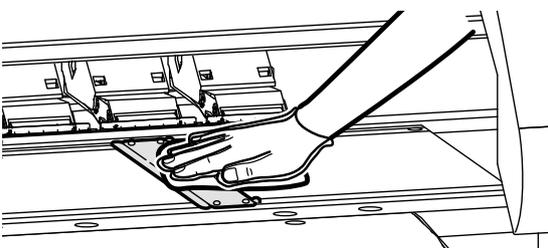
- To prevent the cap cleaning liquid from being contaminated, do not soak the cleaning swab after you clean with it in the cap cleaning liquid bottle.
- The cleaning swab is intended for a single use only. Use a new cleaning swab for each cleaning.

10



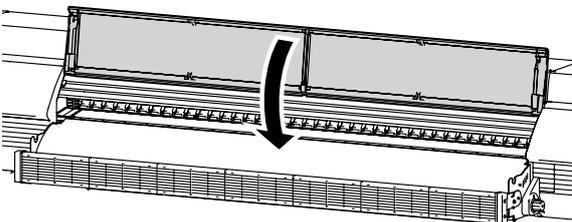
Checking visually for scrub stains on the media edge guard.

11



Clean the stains with a soft and clean cloth.

12



Close the front cover.

Check the head guard cleanliness

When executing cleaning of the head guard from the operation panel menu, start the procedure from step 1. When cleaning the head guard while executing **[#START MAINTENANCE]**, start the procedure in step 6.

1



Press the  key.

2

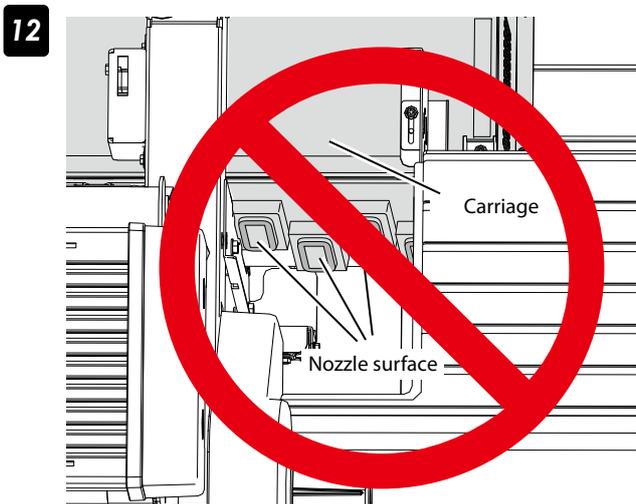


With the  key scroll to **[#MAINTENANCE]**.

10 CARRIAGE MOVING
PLEASE WAIT



11 CLEAN HEAD GUARD?
YES: OK/NO: CANCEL



Press the **OK** key.

Do not clean directly the nozzle surfaces.
(Execute the dedicated sheet mount cleaning
to clean them.)

! CAUTION

- Do not rub the head nozzle surface with a cleaning swab. It may cause a Priner failure.

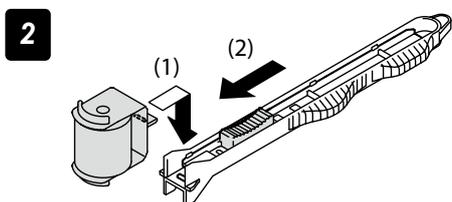
Clean the capping unit

! 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.
- Within 5 minutes, complete the capping unit's cleaning operation and cap the print head.

1 START CAP CLEANING?
OK/CANCEL



Press the **OK** key.

Attach the cleaning roller to the cleaning stick.

3 CARRIAGE MOVING
PLEASE WAIT



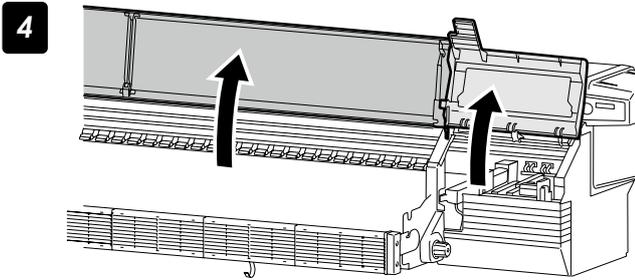
OPEN COVER
CLEAN CAP

The carriage moves to the wiping unit side.

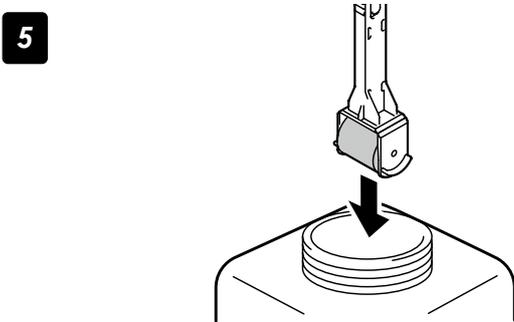


The Printer issues an audio warning beep.

- When the carriage moves, the Printer issues an audio warning beep.
To deactivate the warning beep, see the **Advanced Operation Guide** on the **page 49**.



Open the front cover and then open the capping cover.

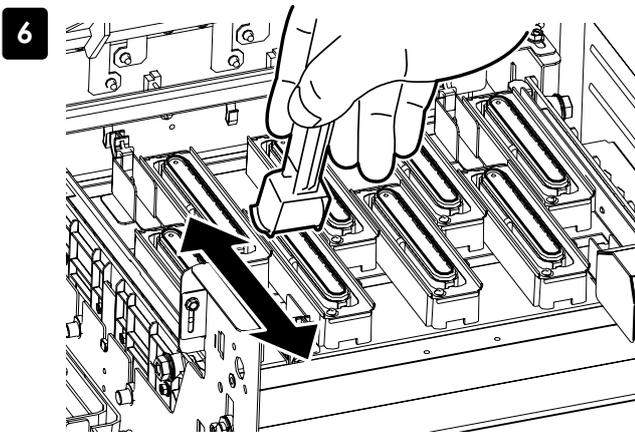


Soak the cleaning roller in the cap cleaning liquid.



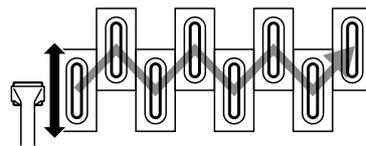
TIP

- To prevent the cap cleaning liquid contaminated, in the cap cleaning liquid bottle do not soak the cleaning roller after you clean the cap with it.

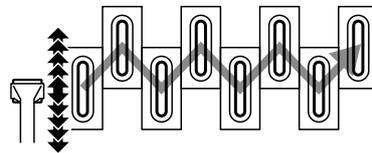


Clean the top surface of the cap by rolling the cleaning roller.

(1) Roll the roller back and forth on each cap.



(2) Then roll the roller back and forth 10 times on each cap.



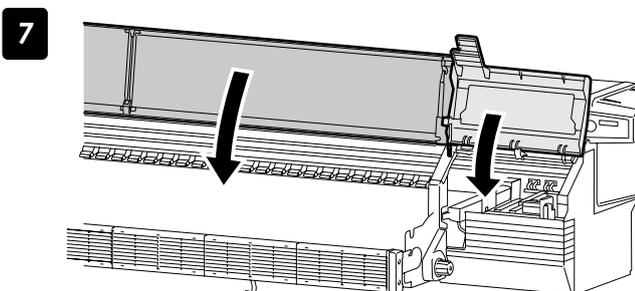
CAUTION

- Be careful so that the cap cleaning liquid does not adhere to any part other than the cap.



TIP

- The cleaning roller is intended for a single use only. Use a new cleaning roller for each cleaning.



Close the capping cover and the front cover.

The print head returns automatically to the home position.

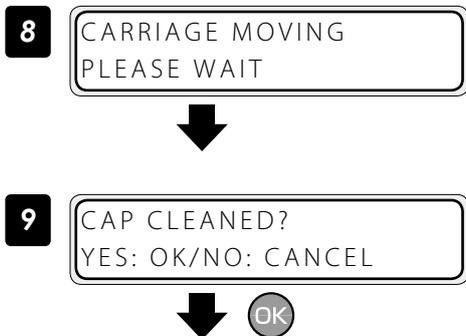
CAUTION

- Be sure to unlock the stopper before closing the capping cover. If you try to close the capping cover without unlocking the stopper, the stopper may bend, or the bent stopper may touch the carriage, which may damage the Printer.



The missing dots persist even after the cap cleaning...

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



Press the **OK** key.

A message prompting you to check the waste ink bottle is displayed.

Check the waste ink bottle



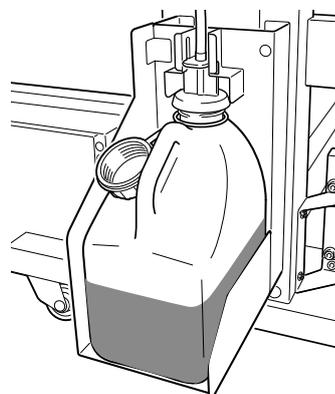
Press the **OK** key.

- 2 Check visually that the waste ink bottle is not full. If the waste ink level is as high as the **[FULL]** indication label, replace the bottle with an empty waste ink bottle.
See "*Replace a waste ink bottle*" on the **page 114**.

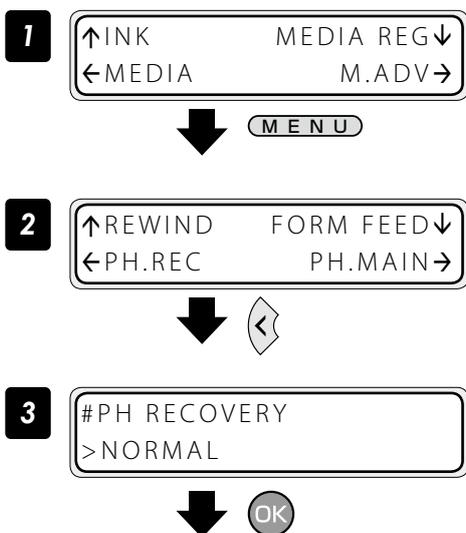
CHECK FOR CLOGGED
NOZZLE BEFORE PRINT

The start maintenance ends with the waste ink bottle check.

Execute the following normal cleaning and nozzle check from the operation panel.



Performing normal cleaning



Set the Printer to offline state, and press the **MENU** key.

Press the **←** key.

Press the **OK** key.

4 #PH RECOVERY
*NORMAL



5 #SELECT: 87654321FB
*BOTTLE OK?



6 #PH REC 87654321FB
*BOTTLE OK?



#PH RECOVERY
*CLEANING 12

This value is counted down every 10 seconds.

7 #PH RECOVERY
>NORMAL



↑REWIND FORM FEED↓
←PH.REC PH.MAIN→

Press the key.

Press the key.

The indicated number denotes the head to be cleaned.

Press the key.

Check visually that the waste ink bottle is not full. If the waste ink level is as high as the **[FULL]** indication label, replace the bottle with an empty waste ink bottle.

See "Replace a waste ink bottle" on the page 114.

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.

Press the key.

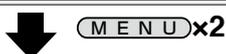
The Printer returns to the offline state, that is, menu mode.

Print the nozzle print pattern

Use NOZZLE PRINT to check if any print head nozzles (ink ejection outlet) are clogged.

Perform a NOZZLE PRINT every day to check the print heads before printing or after the capping unit has been detached to perform a cap cleaning or other operation.

1 ↑INK MEDIA REG↓
←MEDIA M.ADV→



2 ↑PRINTER SETUP↓
←ADJUST HEATER→



3 #NOZZLE PRINT
#EXECUTE



Set the printer to offline state and press the key twice.

Press the key.

Press the key.

4 #NOZZLE PRINT
#EXECUTE



Press the **OK** key.

5 #NOZZLE PRINT
#EXECUTE>OK?

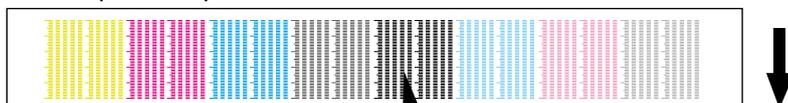


Press the **OK** key.

6 #NOZZLE PRINT
*EXECUTING

7 Check for missing dots and incorrect print.
The following pattern is printed.

- Nozzle print sample



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

Mark for the last nozzle (nozzle 508)
Check that nozzle print is complete up to the right of this mark.

NO **Missing lines are found**

Example when lines for nozzles 224 and 344 are missing in the printout.

The numbers of the nozzles for which nozzle map has been set are written in this area.

YES **No line is bent and the printout is correct**

If the spaces between the lines are even, no line is bent.

NO **Bent lines are found**

If there are uneven spaces between lines, some lines may be bent.

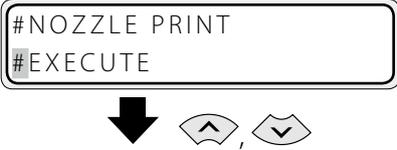
Example: Bent lines are found

Check that there are no missing or bent lines.

If missing or bent lines are found with the nozzle print, perform the normal cleaning.

If missing or bent lines remain after several normal cleanings, set **[NOZZLE MAP]** with the procedure below.

Nozzle map setting

- 1** 
#NOZZLE PRINT
#EXECUTE
- 2** 
#NOZZLE PRINT
#NOZZLE MAP 01 Gy4>000
- 3** 
#NOZZLE PRINT
#NOZZLE MAP 01 Gy4*000
- 4** 
#NOZZLE PRINT
#NOZZLE MAP 01 Gy4*224
- 5** 
#NOZZLE PRINT
#NOZZLE MAP 01 Gy4>224

Press the ,  key several times to select nozzle map.

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

Press the  key.

Here, nozzle map 01 is set for print head Gy4.

Select the digit with the ,  key and set the value using the ,  key.

Press the  key.

The setting is complete.



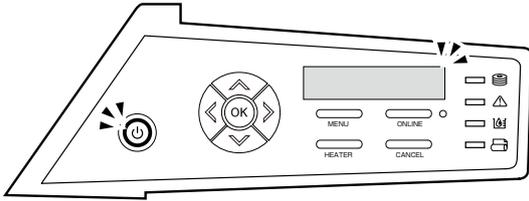
To check the numbers of the nozzles with nozzle map

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

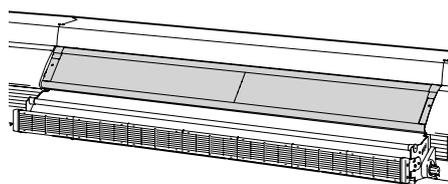
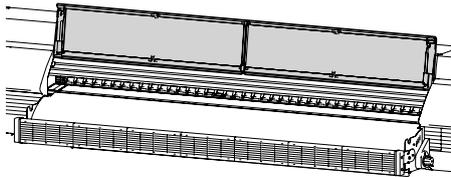
After today's operation

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 today's operation keep your Printer on the conditions below.

1. Never turn the Printer off.

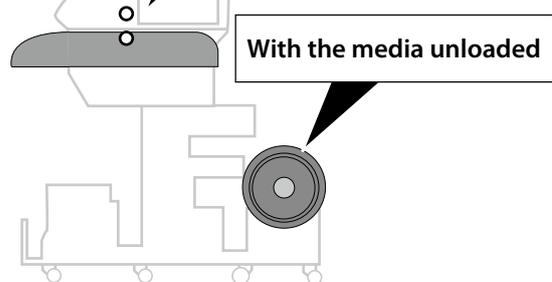
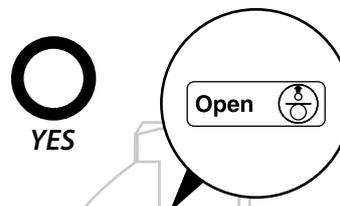
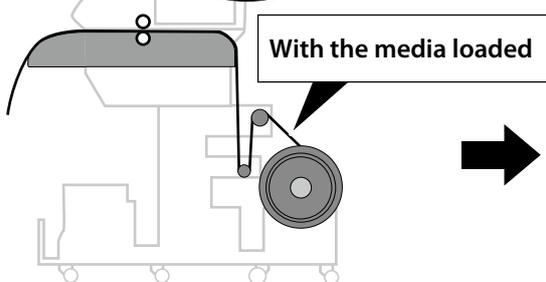
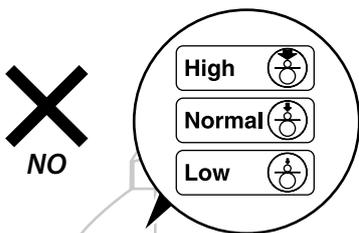


2. Keep the front cover closed.



3. Take up the media on the Printer, or unload the media from the Printer.

If you keep the media loaded on the Printer for a long time, the media may be wrinkled on the platen or the media gripping trace may be left. To keep the media in good condition, the operation below is recommended. Especially after printing on Vinyl, be sure to unload it from the Printer. Note that Vinyl wrinkles frequently.



Sheet mount cleaning

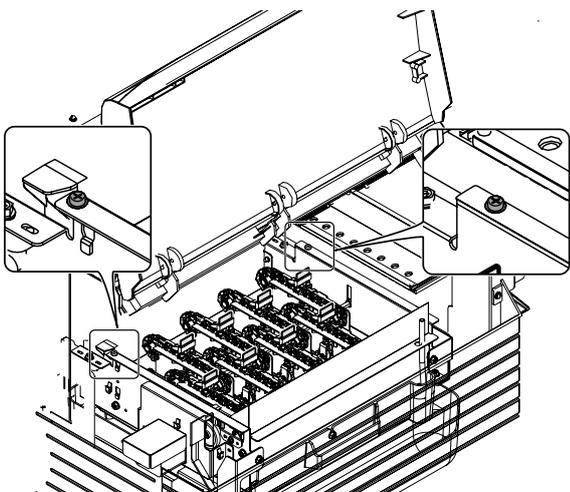
Check the cleanliness of the print heads nozzle surfaces. If dirty, clean them using sheet mount cleaning. You will be prompted to perform cleaning after one month or 0.6 km of print length.

CAUTION

- Do not wipe the print heads nozzle surfaces with a cleaning swab as it may cause print head malfunction.

■ Preparation when using a head cleaning set for the first time

Install the two screws supplied with the head cleaning set to the Printer. (Two more spare screws are also supplied.)

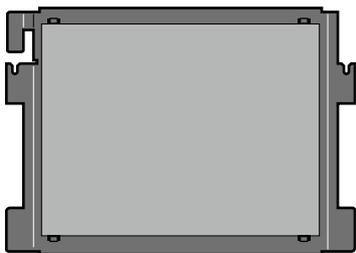


Screw installation

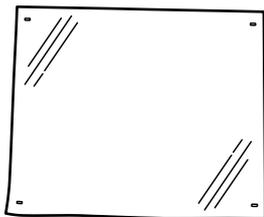
- The screws need to be installed only once. (There is no need to remove them afterward.)

■ Prepare the sheet cleaning part

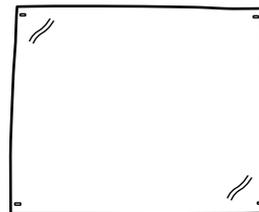
Head cleaning part components



Cleaning sheet mount x1

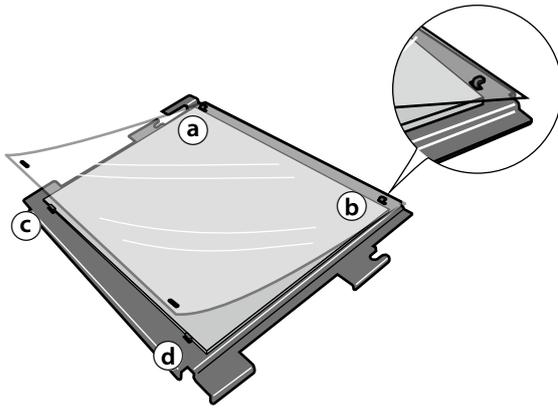


Support sheet x1



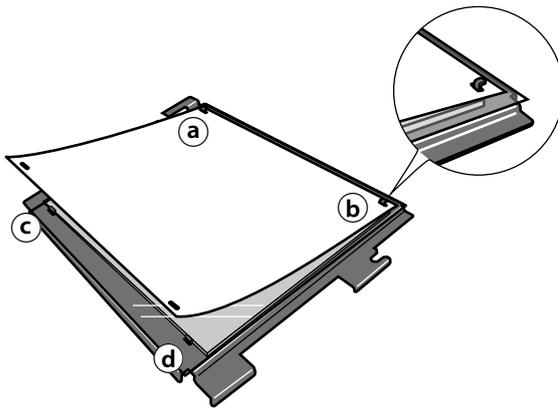
Head cleaning sheet x1

1 Attach the support sheet



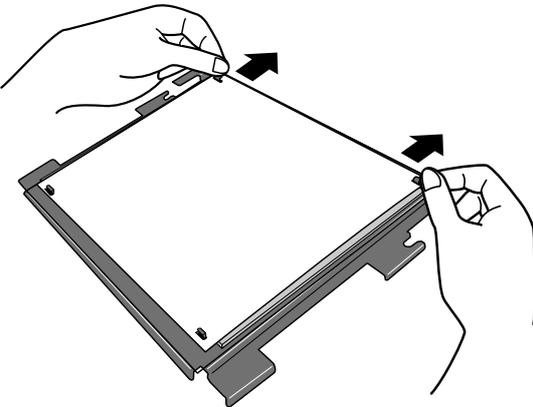
Hook two holes of the support sheet to the cleaning sheet mount attachment locations (a) and (b). Keep the sheet stretched and hook the two remaining holes to the attachment locations (c) and (d).

2 Attach the head cleaning sheet



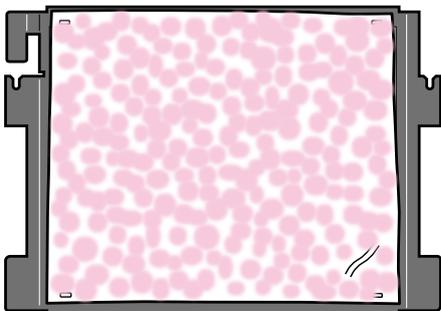
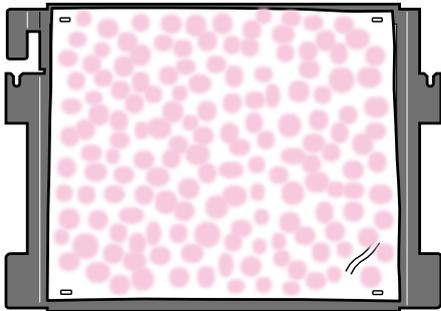
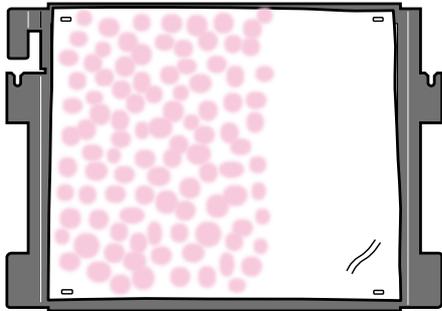
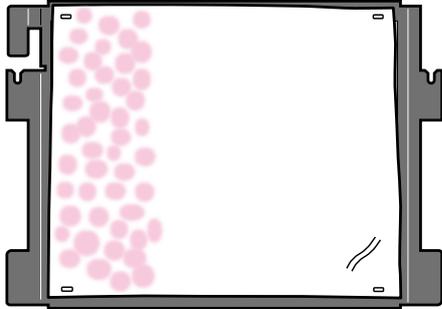
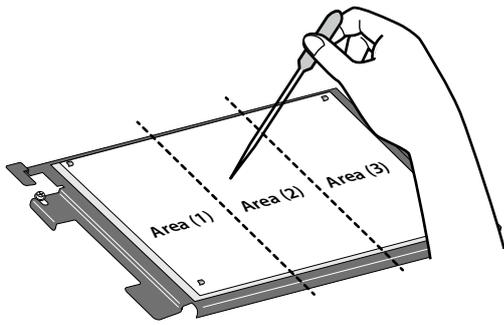
Place the head cleaning sheet on top of the support sheet. Hook two holes to the attachment locations (a) and (b) and then the two others holes to the attachment locations (c) and (d).

3



Remove all wrinkles on the head cleaning sheet by lightly pulling both sides of the sheet top edge in the direction of the arrows. This will prevent the sheet from rising near the bottom edge attachment locations.

4 Apply wiper cleaning liquid



Apply 4 cc of wiper cleaning liquid on the head cleaning sheet surface using a dropper. Apply 1 cc four times as follows.

Apply 1 cc of liquid to each of the (1), (2) and (3) areas shown in the figure to the left (3 cc in total).

Apply the liquid drop by drop to make sure it spreads evenly on each area.



Apply only the suitable amount

– Do not apply too much wiper cleaning liquid. The cleaning effect will not change even if applying more wiper cleaning liquid than indicated.

After applying liquid on zone (1)

After applying liquid on zone (2)

After applying liquid on zone (3)

At the end, apply the last 1 cc to fill the empty spaces.



About the wiper cleaning liquid

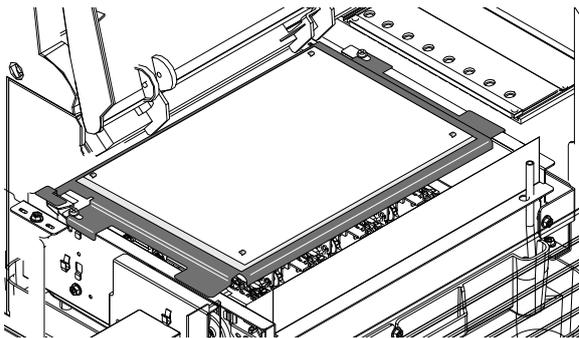
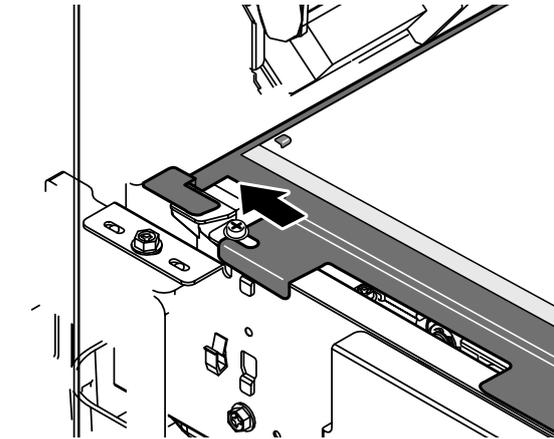
- The cleaning liquid is shown in pink in the figures on the left to make the operation easier to understand. The actual wiper cleaning liquid is transparent.

■ Head cleaning sheet usage procedure

1 START SHEET MOUNT
CLEANING? OK/CANCEL



2 OPEN COVER, INSTALL
SHEET CLEANING PART



↓ Installation complete

3 INST. SHEET CLEANING
PART, CLOSE COVER



4 CARRIAGE MOVING
PLEASE WAIT



Press the **OK** key.

Open the front cover and then the wiping cover. Install the sheet cleaning part.

Install the sheet cleaning part you prepared in advance to the wiping unit.

Insert the notches on both sides of the cleaning sheet mount between the Printer frame and the screws installed previously. Slide the sheet cleaning part in the direction of the arrow to insert them completely.

Close the wiping cover and then the front cover.



The Printer emits a warning sound

- If the cover is opened during the sheet mount cleaning, a warning sound is emitted and the following message appears.

CLOSE
COVER

5 SHEET MOUNT CLEANING
xx:xx HAS ELAPSED



6 CARRIAGE MOVING
PLEASE WAIT



7 CLEANING COMPLETE
PRESS OK BUTTON



8 OPEN COVER, INSTALL
SHEET CLEANING PART



9 REMOVE SHEETCLEANING
PART, CLOSE COVER



10 CARRIAGE MOVING
PLEASE WAIT



11 #SHEETMOUNT CLEANING
>



To cancel the cleaning

Press the **CANCEL** key.

CANCEL SHEET MOUNT
CLEANING?

Press the **OK** key to confirm cancellation.

Cleaning ends automatically after 8 hours.
Depending on the amount of dirt, the nozzle
surfaces may be cleaned after only 2 or 4 hours.
Sheet mount cleaning may be cancelled at any
time if needed.



The Printer emits a warning sound

- If the cover is opened when the sheet mount
cleaning, a warning sound is emitted and the
following message appears.

CLOSE
COVER

The buzzer sounds to indicate the end of sheet mount
cleaning.

Press the **OK** key.



To skip this step

Open the wiping cover to go directly to step 10.

Open the front cover and then the wiping
cover.

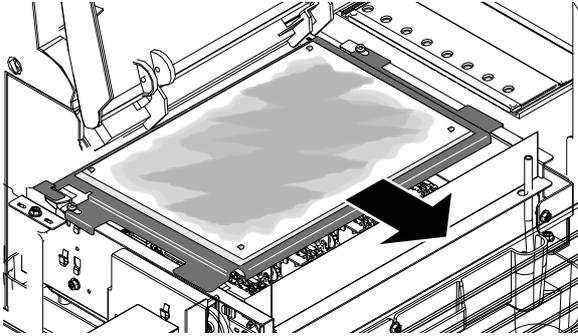
Remove the sheet cleaning part. Close the
wiping cover and then the front cover.

Remove the head cleaning sheet

1 OPEN COVER, REMOVE SHEET CLEANING PART

2 REMOVE SHEETCLEANING PART, CLOSE COVER

3



Open the front cover and then the wiping cover.

Remove the sheet cleaning part on the top of the wiping unit, and then close the covers.

When encountering a problem

Check your problem

Before deciding that there is a serious problem with the Printer, check the following items.

Power is not turned 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.
● Power switch on/off	Turn on the power switch. See "Turn the Printer on" on the  page 31 .

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. Be sure the paper guide is heated by printing the nozzle print pattern or set the heater to ON. See the Advanced Operation Guide "Key operation in the heater control menu" on the  page 79 .
● Host computer RIP setting	The heater temperature can be set also by the RIP of the host computer. Check the host computer setting.
● Heater control menu	Turn on the heater (afterheater/printheater/preheater) again, and then print nozzle print pattern or forcibly set the heater to ON to check that the paper guide is heated. See the Advanced Operation Guide "Key operation in the heater control menu" on the  page 79 .
● Power voltage	Connect the Printer to 200 VAC power.

The printer fails to start or operate correctly.

Items to be checked	Corrective measures
● ERROR LED and LCD message on the operation panel	See "When an error message is displayed" on the  page 106 .

The Printer cannot print.

Items to be checked	Corrective measures
● USB cable connection	Connect the USB cable correctly. See "To connect USB cable" on the  page 30 .
● ERROR LED and LCD message on the operation panel.	See "When an error message is displayed" on the  page 106 .
● Error LED OFF	Print the nozzle adjustment pattern. See "Print the nozzle print pattern" on the  page 92 . (Confirm that the RIP software "Test pattern" is printed.)
● Print head cleaning	Clean the print head. See "Performing normal cleaning" on the  page 91 .

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)
● Affect of air flow	If the air from the air conditioner or fan is blowing against the paper guide, avoid the air flow (by changing air flow direction, 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 loaded. See " To print on other media " on the  page 55 .
● Media loading	Install the media properly. See " To load media on the Printer " on the  page 32 .
● Obstructions in the carriage path or the media path	Remove any obstructions. See " How to clear media jams " on the  page 105 .
● Suction fan power	If the suction fan power is not proper, reduce the power. See Advanced Operation Guide, "SUCTION FAN" on the  page 30 .
● Heater temperature setting	If the heater temperature is not best set, lower the heater temperature. See Advanced Operation Guide, "HEATER" on the  page 79 .

Print quality is poor.

See **Advanced Operation Guide, "Troubleshoot print quality issues"** on the  **page 56**.

Blank sheet appears.

Items to be checked	Corrective measures
● Print data	Check the current print data to confirm that you sent the blank sheet's data.

Printing is slow. The carriage sometimes moves.

Items to be checked	Corrective measures
<ul style="list-style-type: none"> ● 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 is connected at full speed mode, the speed is improved by changing the condition to connect to the computer as follows, so that it is connected at high speed mode.</p> <ul style="list-style-type: none"> - Re-connect the USB cable. - Connect the USB cable to the USB 2.0 port. - Re-install the driver. - Change the USB cable to the one supporting the high speed transmission. - If a hub is applied, change the hub to the one supporting the high speed transmission.

Printing is slow. During print, print heads are capped frequently.

Items to be checked	Corrective measures
<ul style="list-style-type: none"> ● High-temperature environment 	<p>If the Printer temperature is 40°C or more, the Printer prints at a lower printing speed. Set the ambient temperature to 20 to 25°C (recommended temperature), and hold the Printer for one hour or more. Then start printing.</p>
<ul style="list-style-type: none"> ● Exhaust fan filters encrusted with dust. 	<p>Replace the exhaust fan filters.</p> <p>See "Replace the exhaust fan filters" on the  page 77.</p>
<ul style="list-style-type: none"> ● Computer specification 	<p>Remove the additional device connected to the USB.</p>
<ul style="list-style-type: none"> ● Computer specification 	<p>Connect to the computer satisfying the recommended operational environment for your RIP software. For the recommended operational environment, contact the manufacturer of your RIP software.</p>
<ul style="list-style-type: none"> ● Computer's additional job processing 	<p>Terminate the other application software, for example, anti-virus software.</p>

You cannot understand the current operation panel display language.

Items to be checked	Corrective measures
<ul style="list-style-type: none"> ● Language setting 	<p>Start with the Printer powered off. At the operation panel, press the (MENU) key and hold it down. While holding the (MENU) key down, press the POWER switch and hold it down. Continue to hold down both keys. Then the language selection menu should now appear on the operation panel display. Highlight your preferred language with the  and  keys, then press the (OK) key.</p>

Clogged nozzles cannot be restored.

Items to be checked	Corrective measures
<ul style="list-style-type: none"> ● Ragged media edges 	<p>If the media is ragged 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 ragged sections with a pair of scissors or a cutter before installing the media.</p>
<ul style="list-style-type: none"> ● Adhesive coming off the vinyl causing the media to rise up 	<p>Feed the media to beyond the risen area.</p>
<ul style="list-style-type: none"> ● Media wrinkling and rising up 	<p>Set the suction fan level to HIGH.</p> <p>Decrease the printhead temperature.</p>
<ul style="list-style-type: none"> ● 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 & FWD 1 may also prevent the media from adhering to the platen.</p>
<ul style="list-style-type: none"> ● Daily maintenance 	<p>Check that the daily maintenance has been executed and that it is performed periodically.</p>

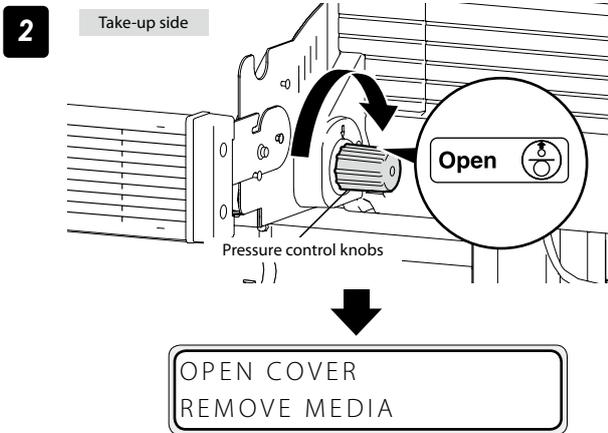
How to clear media jams

If the printer reports a media jam, follow these steps.

1 WARNING! X
CLEAR MEDIA JAM

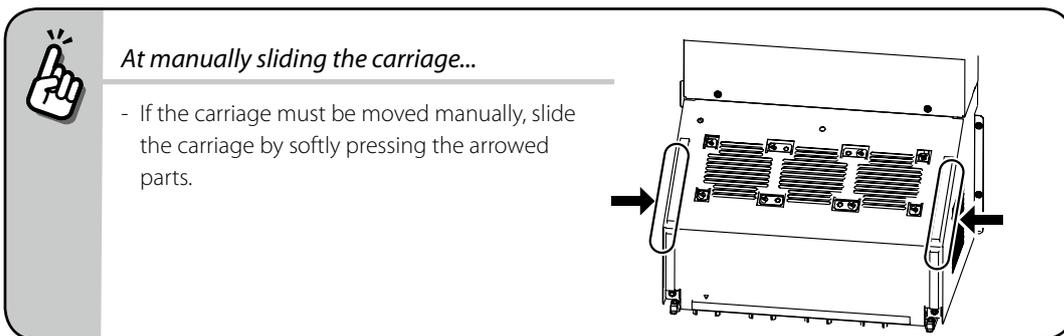
The message appears.

X: Media jam type	Meaning
0: Media jam 0	A jam on the media feed path is invalidating the Printer's normal operation.
1: Media jam 1	A jam on the carriage is invalidating the Printer's normal operation.
2: Media jam 2	The media was not detected correctly because: <ul style="list-style-type: none"> - Roll media or cut-sheet media was selected incorrectly. - The length of the applied cut-sheet media is not as prescribed.



Rotate the pressure control knob, and set it to "Open", and then open the front cover.

3 Remove the jammed media, make sure that no obstruction is left in the carriage path and the media feed path, and then close the front cover.



4 CARRIAGE MOVING
PLEASE WAIT

Close the front cover.

The carriage moves to the home position.

5 Again load the media on the Printer. See *"To load media on the Printer"* on the page 32.

When an error message is displayed

When the ERROR LED lights up, check the message displayed on the operation panel display. 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 appears, restart the Printer by turning off and on as follows. Then the error may often be recovered.
- (1) Turn of the operation panel's POWER switch and the Printer rear's printer power switch and heater power switch.
- (2) Remove the two power cords from the socket, then at the Printer rear remove the two power cords from the printer power inlet and the heater power inlet.
- (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 the all three switches above.

(System error)

SYSTEM ERROR n n n n
RESTART

nnn: Error code

Meaning	An unrecoverable error occurred.
Action	Contact your service representative, and inform them of the displayed error code.

Operator call errors

The following errors are recover by the operator.

(Ink errors)

CLOSE INK COVER

Meaning	The ink cover is open.
Action	You are advised to follow the message.

OPEN INK COVER
XXX LOAD INK PACK

XXX: Ink color/location

Meaning	An ink pack is not installed.
Action	You are advised to follow the message. If this message appears when the specified color's ink pack is installed, the ink pack installation may not be proper. Check that it is installed properly.

(Media jam errors)

WARNING! (0)
CLEAR MEDIA JAM

Meaning	An obstruction is left in the media feed path and the Printer cannot feed the media normally.
Action	Set the pressure control knob to "Open", and open the front cover. If the media jam (0) error occurs repeatedly although there is no media jam or no obstruction in the media feed path, contact your service representative. See " How to clear media jams " on the  page 105 .

WARNING! (1)
CLEAR MEDIA JAM

Meaning	An obstruction is left in the carriage path and the Printer cannot drive the carriage normally.
Action	Set the pressure control knob to "Open", 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 " How to clear media jams " on the  page 105 .

WARNING! (2)
CLEAR MEDIA JAM

Meaning	The media is not detected correctly because: - The roll media or cut-sheet media is wrongly selected or - The applied cut-sheet media length does not match the specified one.
Action	Set the pressure control knob to "Open", and open the front cover. Besides, check that the settings are correct. See " How to clear media jams " on the  page 105 .

(Media errors)

NO MEDIA LOADED
LOAD MEDIA

Meaning	No media is loaded on the Printer.
Action	When there is no media, install new media. If the flange is not attached correctly, attach it correctly. See " To load media on the Printer " on the  page 32 .

LOAD MEDIA

Meaning	Media cannot be detected.
Action	See " To load media on the Printer " on the  page 32 .

MEDIA SIZE ERROR
CHECK MEDIA

Meaning	Media of invalid width size (longer than 74 inches) was loaded.
Action	Load media of the specified size. See " To load media on the Printer " on the  page 32 .

OPEN COVER
CHECK MEDIA

Meaning	The thickness of the loaded media is not supported.
Action	Load media with the proper thickness.

MEDIA MISALIGNED
RELOAD MEDIA

Meaning	The media skewed.
Action	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 " To load media on the Printer " on the  page 32 .

MEDIA MISALIGNED
OK/CANCEL

Meaning	Media skew was detected during printing.
Action	Continue to print or stop printing.

ROLL END DETECTED
PRINT/CANCEL

Meaning	Media end detected during printing.
Action	Continue to print or stop printing. (See  page 41 in the Advanced Operation Guide for details.)

(Print head error)

PH COOLING PROCESS
PLEASE WAIT

Meaning	The Printer operation was suspended, as the print head temperature exceeded 40°C. The print head temperature is always monitored by the Printer for the stable ink ejection.
Action	Secure the ambient temperature 15 to 30°C to prevent the print head temperature increase.

(Communication errors)

NO DATA RECEIVED
CHECK USB CABLE

Meaning	During the print data transfer, USB connection failure, or cable disconnection was detected.
Action	Check the USB cable connection.

NO DATA RECEIVED
CHECK HOST

Meaning	Though a timeout was achieved during the print data transfer, its cause is not the Printer failure.
Action	Check the USB cable connection.

(Other errors)

CLOSE COVER

Meaning	The front cover is open.
Action	You are advised to follow the message.

INK CHARGE NOT DONE
CHARGE INK SYS

Meaning	Before charging the ink system completely, cleaning or printing was started.
Action	Charge the ink system completely before starting cleaning or printing.

OPEN COVER TO ATTACH
SPITTOON CASE

Meaning	The spittoon case is not installed when the Printer is turned on or when the front cover is closed.
Action	You are advised to follow the message. See " Carriage cleaning " on the  page 80 .

ENV. TEMP. ERROR
CHANGE ENV TEMP

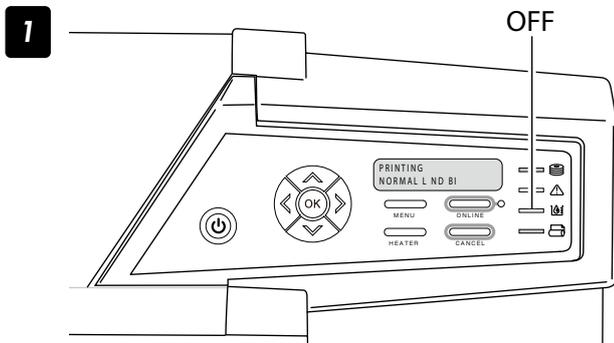
Meaning	The ambient temperature is not within the Printer's operating temperature range.
Action	Operate the Printer within the operating temperature range (15 to 30°C).

ERROR OCCURRED
PLEASE WAIT

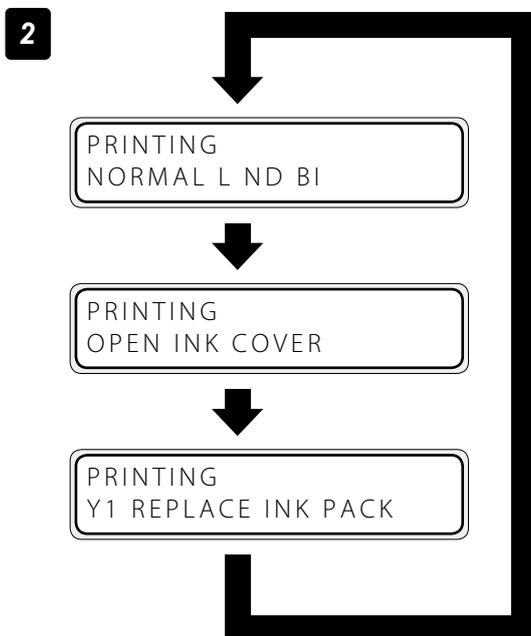
Meaning	An error was detected during printing.
Action	Wait until the error message is displayed. If the error message is not displayed after five minutes, restart the Printer.

Out of ink while printing

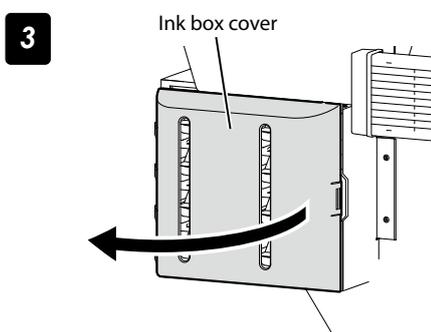
While printing in online, the Printer allows the ink pack to be replaced without suspending the print operation. When an ink pack is out of ink, the ink LED  goes off. You are advised to follow the message.



Ink LED  goes off.



The message appears to prompt you to replace the ink pack.



Open the ink box cover, and replace the ink pack.

See "*Install and replace an ink pack*" on the  **page 116**.

The media was skewed.

The Printer checks for media skew at every 3m print. If the Printer detects the skew level more than specified, the print operation is suspended and the operation panel message appears so that you select the print to be continued or cancelled.

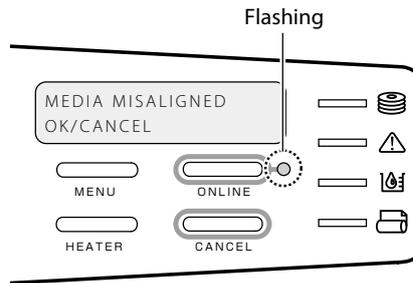
PRINTING
NORMAL L ND BI



The Printer checks for media skew.

MEDIA MISALIGNED
OK/CANCEL

Media skew was detected.



Continue printing with the **OK** key.



PRINTING
NORMAL L ND BI

Stop printing with the **CANCEL** key.



MEDIA MISALIGNED
RELOAD 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 media may be jammed. When the printout is lengthy, the skew may be worse, which may damage the Printer.

Warning messages

After the online printing, occasionally you may see one of the following messages appear on the operation panel display with the ERROR LED flashing  , which are warning messages. If so, follow the advice in the Recommendation column.

PERFORM DAILY
MAINTENANCE NOW

Indication	The daily maintenance (cap cleaning) is not performed.
Recommendation	You are recommended to perform the daily maintenance. See " Daily maintenance " on the  page 66 .

SERVICE NEEDED
CALL SERVICE

Indication	The supply tube pump assembly needs to be replaced.
Recommendation	You are recommended to ask your service representative to replace it.

LOAD INK PACK
CHARGE INK

Indication	After the subcartridge's initial ink charge to the ink system, the ink tray has not yet started the ink supply to the ink system.
Recommendation	Set the ink packs to the ink box's slots, and perform

PERFORM
PH RECOVERY NOW

Indication	Automatic cleaning is set to OFF, and the cleaning has not been performed for a prescribed period.
Recommendation	You are recommended to perform the print head cleaning. See " Performing normal cleaning " on the  page 91 .

The Ink LED   blinks:

Indication	Ink is running out.
Recommendation	Prepare a new ink pack. See " Install and replace an ink pack " on the  page 116 .

Move the Printer

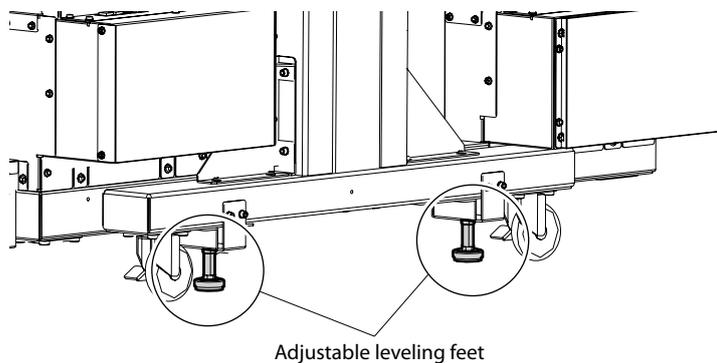
If you wish to move the printer several meters on the same site, across a horizontal floor with no steps and no slopes, see the following instructions.

For more difficult movement, contact your service representative.

- 1** Remove the media from the Printer.
- 2** Turn off the Printer.
- 3** Before the movement, loosen and raise the adjustment leveling feet so that the wheels touch the ground.
- 4** Push the printer to the preferred position.
- 5** After the movement, lower and tighten the adjustment leveling feet.

CAUTION

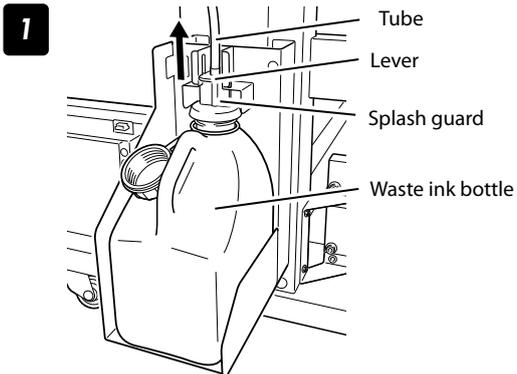
- Do not move the Printer with a media roll attached, or the heavy media may damage the Printer.
- Be sure to loosen and raise the adjustment leveling feet before movement, and lower and tighten them after movement.
- Move the Printer carefully so that the adjustment leveling feet would not hit against any obstructions.



Replace a waste ink bottle

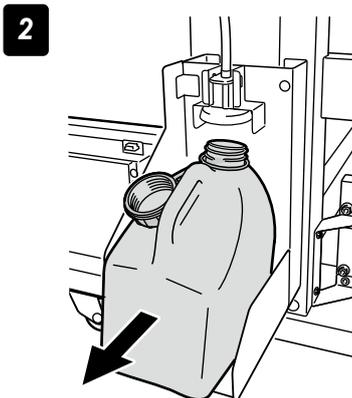
CAUTION

- Do not replace the waste ink bottle during printing.
- Replace the waste ink bottle carefully not to bump your head on the Printer upper part.
- Always use both hands to carefully remove and carry an OKI Data Infotech waste ink bottle to prevent the waste ink spilt on the Printer or on the floor.
- You are recommended to wear gloves when handling waste ink bottles.



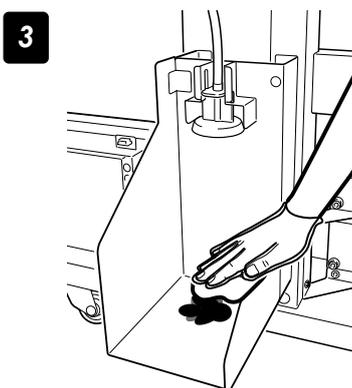
Slide the lever up and lift the splash guard sufficiently to remove the waste ink bottle.

The ink drips from the tube. Leave it for a while.



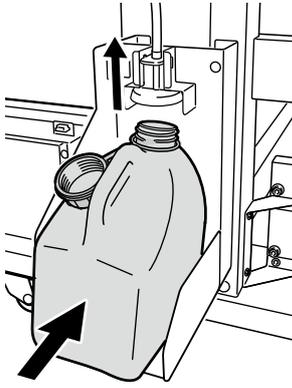
Carefully pull out the full waste ink bottle, taking care not to spill any on the printer or on the floor.

Securely close the cap on the waste ink bottle.



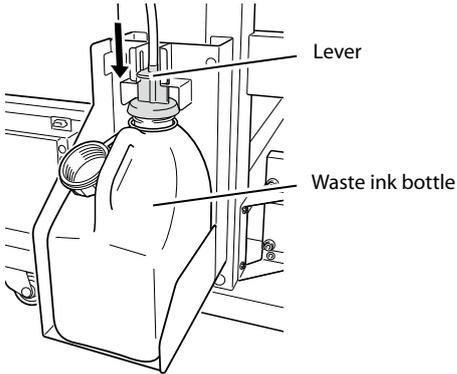
Wipe off the spilt ink in the waste ink bottle unit.

4



Slide the lever up and install a empty waste ink bottle.

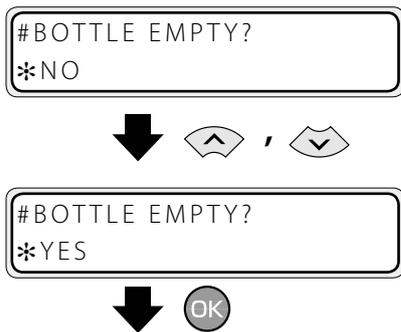
5



Lower the lever, and make sure that the splash guard was lowered.

Then the operation panel will request you to reset the waste ink counter.

6



On the operation panel, select "YES" and press the **OK** key to reset the waste ink counter.

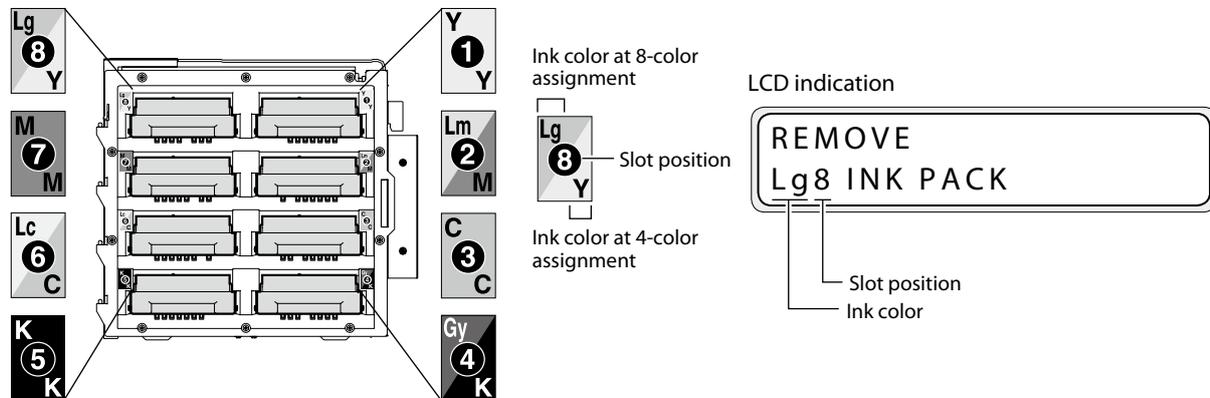


If the waste ink counter is not reset...

- When the waste ink bottle is full, the Printer does not issue the message prompting you to replace the waste ink bottle. Then the waste ink overflows.

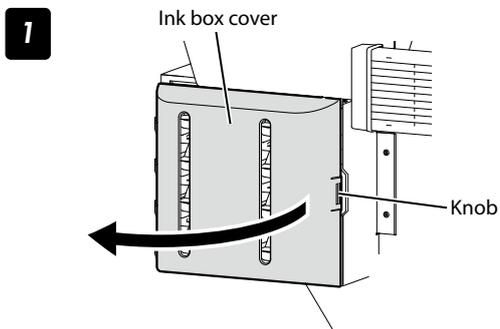
Install and replace an ink pack

At installing ink trays, be sure to insert each tray into its correct slot position of the ink box. Note that ink tray position is decided depending on its ink color.

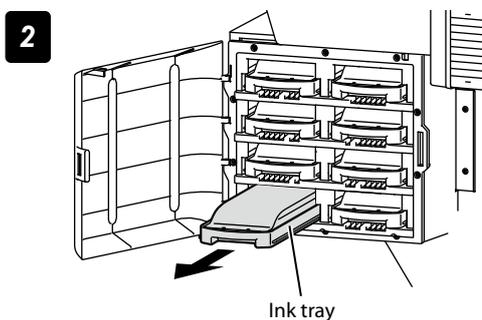


CAUTION

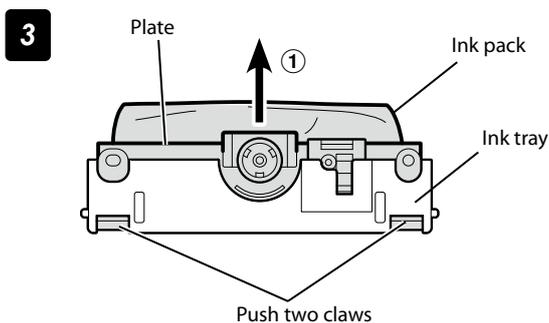
- Do not remove ink tray in the following cases. Otherwise, ink may spill in the Printer depending on the Printer state, which may damage the Printer.
 - The Printer is not powered on because the power was interrupted or because the circuit breaker turned off the Printer.
 - An error other than ink end has occurred.
- Do not touch the contact point in the ink pack's plate.



Push the knob of the ink box cover to open the ink box.



Confirm the color of the ink pack to be replaced, and pull its ink tray out of the Printer.

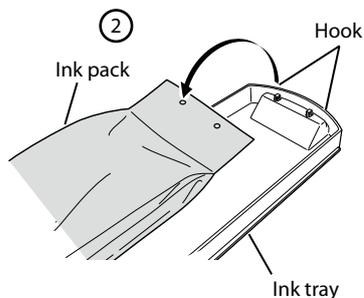


If no ink pack is installed on the ink tray, go to the step **4**.

Take the empty ink pack out of the ink tray.

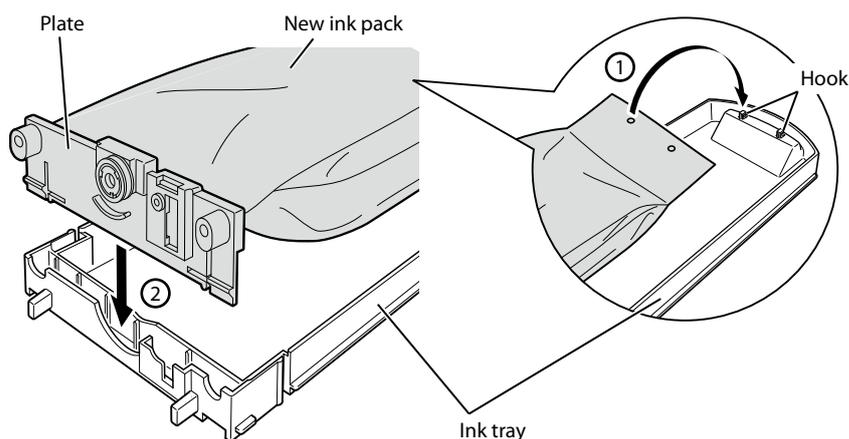
- (1) Push the two claws at the lower part of the the ink pack's plate, and pull up the plate.

(2) Remove the ink pack from the hook of the ink tray.

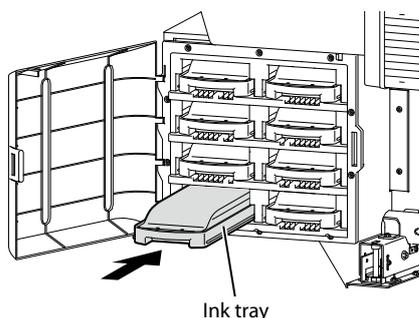


4 Take a new ink pack out of the box and set it on the ink tray.

Hook the two holes (1) at the ink pack's end on the ink tray's two protrusion. Then insert the ink pack's plate part into the ink tray until you hear a click (2).



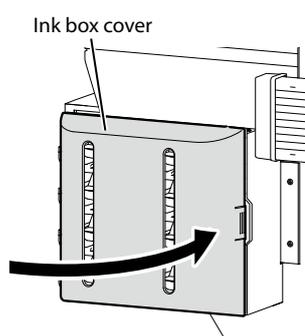
5



Insert the ink tray into the slot of the Printer.

Insert the ink tray as far as it will go.

6



Close the ink box cover.

7

Confirm that the ink pack replacement was completed.

- When the replacement is successfully completed, the Printer returns to the online or offline state.
- If the replacement is not completed, an error message appears. Retry the replacement procedure beginning with step **1**.
- The print operation is performed even during the ink pack replacement, as far as the ink is remaining in the subcartridge.

Replace a wiper blade

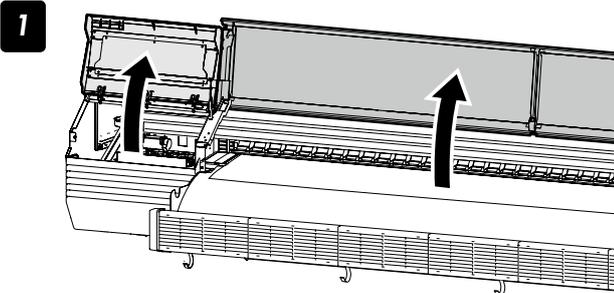
CAUTION

- When the Printer firmware version is 4.20 or later, use an IP7-180 Wiper blade (TYPE S).

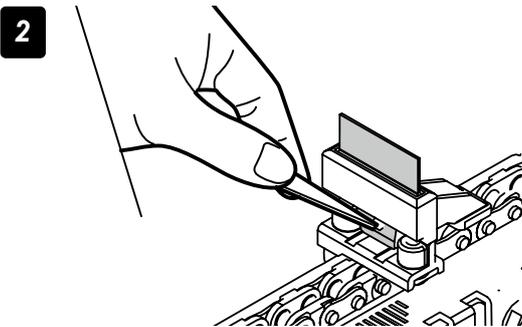
The following describes the wiper blade replacement procedure.

Replace the wiper blade when the replacement message appears or scratches are found at a daily inspection.

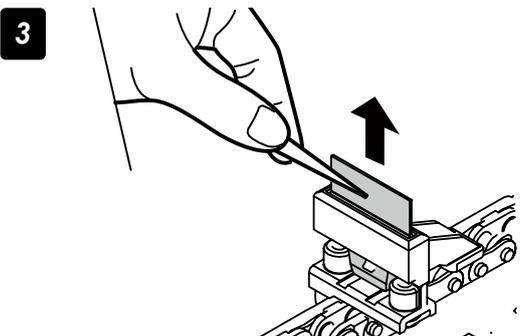
Prepare the tweezers supplied in the daily maintenance kit before replacing the wiper blade.



Open the front cover and wiping cover.

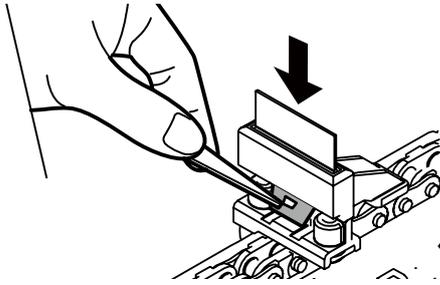


Using the tweezers, remove the wiper blade.
First pull the bottom of the wiper blade to
release the hook of the plastic projection.



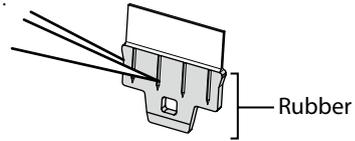
Then pull the wiper blade out from its slot.

4

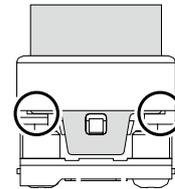


Install a new wiper blade.

Nip the rubber of the new wiper blade with the tweezers and insert it straight downward, and install it by hooking the hole in the rubber to the plastic projection.

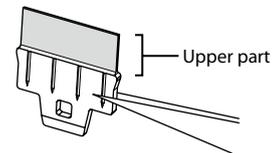


Check that the wiper blade's two positions circled in the figure below are installed correctly as the figure shows.

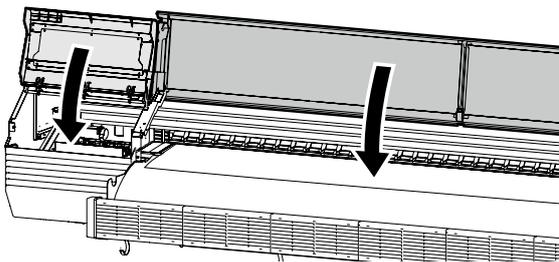


! CAUTION

- When handling the wiper blade, do not touch its upper part by hand or nip it with tweezers because the upper part directly contacts with the print head.



5



Close the wiping cover and then close the front cover.

! CAUTION

- Be sure to unlock the stopper before closing the wiping cover. If you try to close the wiping cover without unlocking the stopper, the stopper may bend, or the bent stopper may touch the carriage, which may damage the Printer.



Basic specifications

Item	Specification / Function	
	IP-7900-20/21	IP-7700-20/21
Print method	Piezo-type color inkjet printing	
Resolution	(main scanning direction) x (subscanning direction) 360dpi x 360dpi x DDP, 360dpi x 540dpi x DDP, 540dpi x 540dpi x DDP, 720dpi x 720 dpi, 900dpi x 900dpi	
Print speed	28.6 m ² /h for 104-inch width at 8-pass NORMAL 8-color mode (depending on ambient temperature and print head temperature)	26.4 m ² /h for 72-inch width at 8-pass NORMAL 8-color mode (depending on ambient temperature and print head temperature)
Media supply/takeup direction	Rear: Supply side, Front: Take-up side	
Media type	Vinyl/Banner/Mesh banner/Backlit banner (FF)/Solvent printing coated paper	
Media width	Max. 104 inches (2642 mm)	Max. 74 inches (1900 mm)
Ink pack	Normal solvent ink (8 colors) (black, cyan, magenta, yellow, light cyan, light magenta, gray, light gray) 1500 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 charging noise	
Calorific power	15552KJ/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	Printer power supply: 200 to 240 VAC, 6 A, 50/60 Hz Heater power supply: 200 to 240 VAC, 12 A, 50/60 Hz	
Input power voltage range	Printer power supply: 180 to 260 VAC ±10%, 50/60 Hz ±1 Hz Heater power supply: 180 to 260 VAC ±10%, 50/60 Hz ±1 Hz	
Power consumption	Printer power supply: 1440 W or less Heater power supply: 2880 W or less	
External dimensions	4126 mm (W) x 1366 mm (D) x 1513 mm (H) ± 10 mm	3383.5 mm (W) x 1275 mm (D) x 1511 mm (H) ± 10 mm
Mass	600 kg or less (excluding media and ink)	450 kg or less (excluding media and ink)
Print ensuring 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. 4926 x 3366 x 2200 mm	Min. 4183 x 3275 x 2200 mm
Maintenance space (W) x (D) x (H)	Min. 7126 x 3366 x 2200 mm	Min. 6383 x 3275 x 2200 mm

Consumables

Ink pack

[8-color ink] One box contains one ink pack.

Type	Ink color	Quantity
IP7-101	Y (yellow)	1500 ml
IP7-102	M (magenta)	1500 ml
IP7-103	C (cyan)	1500 ml
IP7-104	K (black)	1500 ml
IP7-105	Lc (light cyan)	1500 ml
IP7-106	Lm (light magenta)	1500 ml
IP7-107	Gy (gray)	1500 ml
IP7-108	Lgy (light gray)	1500 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 or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If ink gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.

! CAUTION

- Always use OKI Data Infotech specified ink packs. Failure to use the recommended ink pack may lead to a deterioration of the print quality or a printer malfunction. This may invalidate your warranty.
- The ink validity period is 14 months from the date of production.
- Do not shake these ink packs before using them.
- Install ink packs and ink trays to all the 8 slots. When you remove ink packs or ink trays, be sure to install new ones instead.

Waste ink bottle

Type	Content	Quantity
IP6-109	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 or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If ink gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, 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.

CAUTION

- If you cannot dispose of waste ink, contact your service representative. Be sure to tighten the caps of waste ink bottles and put them in bags so that the ink does not leak. Then put the bags in cardboard boxes and send the cardboard boxes to the collection center.

Daily maintenance kit

Type	Content	Quantity
IP7-130	Cap cleaning liquid	300 ml
	Wiper cleaning liquid	200 ml
	Spittoon absorber liquid	100 ml
	Dropper	10 pieces
	Cleaning swab	10 pieces
	Cleaning stick	1 piece
	Cleaning roller	30 pieces
	Tweezers	1 piece
	Spittoon case	1 piece
	Gloves	30 pieces
	Bag	1

! WARNING

- Do not swallow cleaning liquid or avoid its splashes on the eye to prevent breathing trouble or visual impairment. If cleaning liquid gets into the eye, wash it off with clean running water and consult a doctor. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.

Cap cleaning liquid set

Type	Content	Quantity
IP7-134	Cap cleaning liquid (300 ml)	3 bottles

Wiper cleaning liquid set

Type	Content	Quantity
IP7-161	Wiper cleaning liquid (300 ml)	3 bottles
	Funnel	1 piece

Cleaning swab

Type	Content	Quantity
IP6-147	Cleaning swab	300 pieces
	Bag	6 pieces

Storage liquid kit

Type	Content	Quantity
IP7-137	Storage liquid pack	8 pieces
	Dummy subcartridge	8 pieces

Cleaning liquid kit

Type	Content	Quantity
IP7-136	Cleaning liquid pack	8 pieces
	Dummy subcartridge	8 pieces

Sheet mount cleaning starter kit

Type	Content	Quantity
IP7-165	Cleaning sheet mount	1 piece
	Head cleaning sheet	6 sheets
	Support sheet	6 sheets
	Installation screw	4 pieces

Head cleaning set

Type	Content	Quantity
IP7-166	Head cleaning sheet	16 sheets
	Support sheet	16 sheets

Spittoon absorber liquid

Type	Content	Quantity
IP7-162	Spittoon absorber liquid (300 ml)	3 bottles

Subcartridge

Type	Content	Quantity
IP7-111	Y (yellow)	400 ml
IP7-112	M (magenta)	400 ml
IP7-113	C (cyan)	400 ml
IP7-114	K (black)	400 ml
IP7-115	Lc (light cyan)	400 ml
IP7-116	Lm (light magenta)	400 ml
IP7-117	Gy (gray)	400 ml
IP7-118	Lgy (light gray)	400 ml

Wiper blade

Type	Content	Quantity
IP7-133	Wiper blade	8 pieces
IP7-180	Wiper blade (TYPE S)	8 pieces

Cleaning stick

Type	Content	Quantity
IP5-120	Cleaning stick	1 piece
	Cleaning roller	1 piece

Cleaning roller set

Type	Content	Quantity
IP7-121	Cleaning roller	120 pieces

Spittoon case set

Type	Content	Quantity
IP7-167	Spittoon case	4 piece
	Spittoon unit (two parts)	1 piece
	Tube	1 piece
	Bag	1 piece

Color exchange set

Type	Content	Quantity
IP7-122	Cleaning liquid pack	4 pieces
	Dummy subcartridge	4 pieces

Ink tray

Type	Content	Quantity
IP7-123	Ink tray	1 piece

Glove set

Type	Content	Quantity
IP7-138	Gloves	100 pairs

Absorbent sponge (Option for mesh banner)

Type	Content	Quantity
IP7-127	Absorbent sponge	10 pieces

Absorbent sheet (Option for mesh banner)

Type	Content	Quantity
IP7-124	Absorbent sheet	1 roll

Exhaust fan filter

Type	Content	Quantity
IP7-028	Exhaust fan filter	60 pieces

Dust filter

Type	Content	Quantity
IP7-027	Dust filter	1 roll

Options

Exhaust attachment (IP7-013)

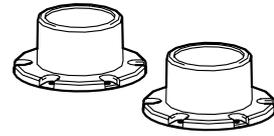
An optional unit to attach an exhaust duct to the Printer

The recommended flow of air is as follows.

H-104s: 1.2 to 1.8 cmm (air velocity 3.0 to 4.5 m/s)

H-74s: 1.2 to 1.3 cmm (air velocity 2.5 to 3.2 m/s)

* cmm = cubic meter per minute



Mesh printing kit 104 (IP7-011)

H2-104s IP-7900

Mesh printing kit 74 (IP7-017)

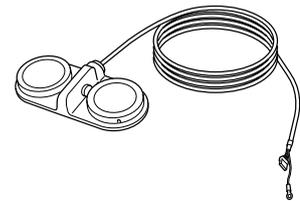
H2-74s IP-7700

Used to print unbacked mesh banner.

Footswitch (IP7-014)

H2-104s IP-7900

The footswitch allows you to operate the take-up reel unit by foot. This improves work efficiency.



(Footswitch connected to the take-up reel unit)

- Use the take-up direction switch on the take-up reel unit of the printer to set inner take-up or outer take-up.
- The black switch of the footswitch has the same function as the take-up reel switch (black) of the take-up reel unit. Press the black footswitch to take up media to the take-up scroller.
- The white switch of the footswitch has the same function as the media feed switch (white) of the take-up reel unit. Press the white footswitch to feed media from the take-up scroller.

(Remark)

- Attaching footswitches do not increase power consumption.

CAUTION

- Do not use footswitches in a humid place or a place exposed to water to prevent a failure.
- Do not connect or disconnect the footswitch with wet hand to prevent a failure.
- When ink adheres to the footswitch, remove it immediately. If the footswitch is left with ink for a while, the switch surface may be damaged.
- Hold the connector of the footswitch cable when connecting or disconnecting the footswitch. Pulling the cord of the cable may result in disconnection or poor contact of the connector.
- Be sure to connect the ground lines. Otherwise, a malfunction or failure due to noise may be caused.
- Do not press the footswitch strongly. This may cause a failure of the switch part.
- Do not put anything on the footswitch cable. Doing so may result in disconnection or other failure.

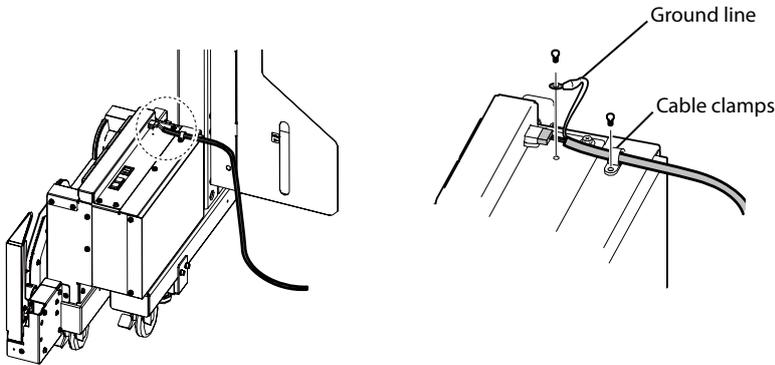
Installation

CAUTION

– Turn off the power switch of the printer before installing the footswitch.

Plug the other connector of the footswitch in the connector of the take-up reel unit, and then screw the ground line.

Loosen the screw fixing the cable clamp to the printer. Then fix the cable with the cable clamp at the clamp's original position.



Scroller (IP7-015)

H2-104s IP-7900

An optional scroller available for both the roll feed unit and take-up reel unit

Scroller flange (IP7-018)

H2-74s IP-7700

An optional scroller flange

Scroller set (IP7-019)

H2-74s IP-7700

An optional scroller flange <2> and scroller shaft <1>

Tensioner 104 (IP7-023)

H2-104s IP-7900

Tensioner 74 (IP7-022)

H2-74s IP-7700

An optional kit to print on the lightweight banner

Offset loading kit 104 (IP7-025)

H2-104s IP-7900

Offset loading kit 74 (IP7-024)

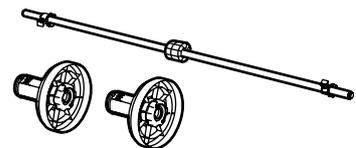
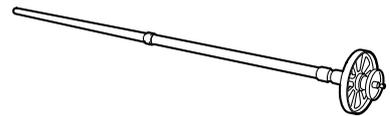
H2-74s IP-7700

An optional kit to install media with the slide to the wiping unit direction

Flange shaft fixture (IP7-168)

H2-74s IP-7700

Flange shaft fixture that can be used on both the supply side and the take-up side scrollers.



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