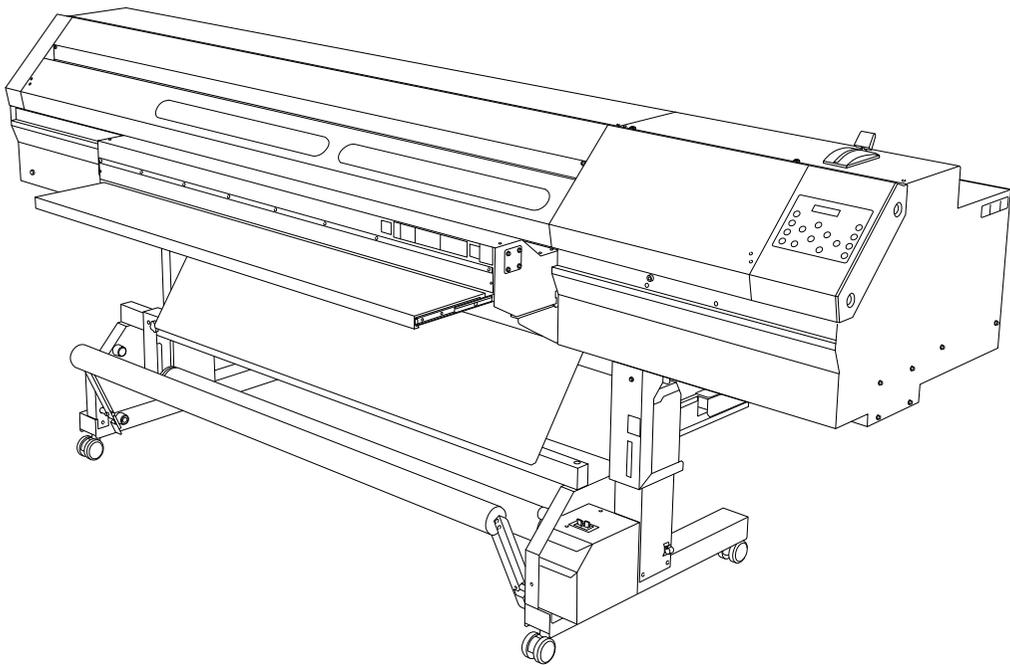


VersaUV

LEC-540

User's Manual



Thank you very much for purchasing this product.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely and store it in a safe location.
 - Unauthorized copying or transferral, in whole or in part, of this manual is prohibited.
 - The contents of this operation manual and the specifications of this product are subject to change without notice.
 - The operation manual and the product have been prepared and tested as much as possible. If you find any misprint or error, please inform us.
 - Roland DG Corp. assumes no responsibility for any direct or indirect loss or damage which may occur through use of this product, regardless of any failure to perform on the part of this product.
 - Roland DG Corp. assumes no responsibility for any direct or indirect loss or damage which may occur with respect to any article made using this product.
-

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.

Use only I/O cables that have been designed and manufactured specifically for this device.

NOTICE

Grounding Instructions

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn out cord immediately.

For Canada

NOTICE

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Operating Instructions

KEEP WORK AREA CLEAN. Cluttered areas and benches invites accidents.

DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.

DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and like.

REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure the switch is in off position before plugging in.

USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

For EU Countries

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

For California



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

For EU Countries



Manufacturer:
ROLAND DG CORPORATION
1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi, Shizuoka-ken, 431-2103 JAPAN

The importer in the EU:
Roland DG Europe Holdings B.V.
Prof. J.H. Bavincklaan 2, 1183 AT, Amstelveen, The Netherlands

Contents

Contents	1
Chapter 1 Machine Highlights	5
Part Names and Functions	6
Printer Unit	6
Operation Panel	8
Media Take-up System	9
Menu List	10
Main Menu	10
Language and Unit Menu	15
Cleaning Menu	15
Cutting Configuration Menu	15
⚠ To Ensure Safe Use	16
⚠ Pour utiliser en toute sécurité	23
Important Notes on Handling and Use	31
Chapter 2 Basic Operation	33
Prepare the Media	34
Type of Media	34
Usable Media	34
Switch On	35
Switch On	35
The Power-saving Feature (Sleep Mode)	35
Loading Media	36
Loading Roll Media	36
Loading the Sheet Media	46
Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)	53
Setup of Media	55
About [MEDIA SETTING] menu	55
Setup of Media ([MEDIA SETTING] menu)	55
Outputting	66
Setting the Output-start Location	66
Printing Tests and Normal Cleaning	67
Important Note on Cutting	69
The Cutting Test And Setting The Blade Force	71
Getting Ready to Receive Data from a Computer	73
Starting Output	74
Pausing and Canceling Output	75
Cutting Off the Media	75
Switch Off	77
Switch Off	77
Chapter 3 Using The Media Take-up System	79
The Media Take-up System	80
Features of the Media Take-up System	80
About the Paper Tube	80

Use Conditions of the Media Take-up System	81
When Performing Output without Pullback Movement (or When [TU] Is Selected)	81
When Performing Output Involving Pullback Movement (or When [TU2] Is Selected)	82
Loading the Media onto the Media Take-up System.....	84
Removing Taken-up Media	88
Chapter 4 Maintenance: For always using the printer in the best condition .	89
Checking for Remaining Ink and Replacing Cartridges	90
Checking for Remaining Ink	90
How to Replace Ink Cartridges	91
Automatic Maintenance Feature	93
Automatic Maintenance Feature and Notes.....	93
Maintenance that Should Be Performed Daily	94
Maintenance of Ink Cartridges	94
Disposing of Discharged fluid.....	95
Cleaning.....	97
About Care and Maintenance of Print Head.....	98
When Normal Cleaning Is Not Effective	99
Medium/ Powerful Cleaning	99
Maintenance that Should Be Performed More Than Once a Month	101
When Manual-Cleaning Becomes Necessary.....	101
Performing Manual Cleaning	102
The Concentration and Dot Drop-Out of the White Ink	108
Restoring White Ink Concentration.....	108
When the Dot Drop-Out Cannot be Cleared.....	109
Replacing Consumable Parts.....	112
Replacing the Wiper	112
Replacing the Blade.....	115
Replacing the Separating Knife.....	118
When Not in Use for a Prolonged Period	120
Keep Performing Maintenance	120
Alarm Feature	120
Important Note on Draining Ink.....	120
Chapter 5 Part of Practice	121
Fully Utilizing Preset Function	122
Saving the Various Settings to the Preset.....	122
Loading a Saved Preset	123
Assigning a Name to a Preset.....	123
Fully Utilizing the Correction Function.....	125
Correcting for Misalignment in Bidirectional Printing.....	125
Correcting for Misalignment in Bidirectional Printing More Precisely	126
Alleviating Horizontal Bands and the Like (feed correction function)	126
Accommodating to the Types and Condition of Media	128
Adjusting Head Height to Match Media Thickness.....	128
Using Transparent Media.....	129
Using the Media Easy to be Winkled / Hard to be Fed.....	129
Speeding Up Output for Narrow Media	130

Preventing Soiling of the Media and Dot Drop-out.....	132
Fully Utilizing Cutting Function	133
Hints and Tips for Cutting Setting	133
Preventing Pulling of the Media with Undue Force When Performing Cutting Only	133
Fine-tuning the Cutting Conditions	134
Accurately Adjusting the Cutting-in Amount	136
Adjusting the Conditions for Cutting the Printed Surface/Cutting-in Amount....	136
Performing Distance Correction During Cutting	139
Correcting Misalignment of the Printing and Cutting Positions.....	140
Prioritize the Cutting Settings of This Machine to the Settings of the Software RIP	142
Viewing the Automatic Environment Correction Function Settings	143
Performing Printing and Cutting Separately	144
To Perform Printing and Cutting Separately.....	144
Printing with Crop Marks.....	144
Aligning Automatically and Cutting.....	146
Aligning Manually and Cutting	148
Correcting Misalignment for Printing and Cutting When Using Crop Marks	149
Switching the Ink Type(EUV \longleftrightarrow EUV3)	152
Method for Switching the Ink Type(EUV \longleftrightarrow EUV3)	152

Chapter 6 To Administrators.....155

Output Operation Management.....	156
Printing a System Report	156
Determining What Happens When Ink Runs Out	156
Displaying the Amount of Media Remaining.....	157
Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed	158
Printing the Amount of Remaining Media	159
System Management of Printer.....	160
Setting for the Menu Language and the Units of Measurement.....	160
Setting the Interval until Activation of the Sleep Mode (Power Saving Function)...	160
Viewing Information about the System of This Machine	161
Returning All Settings to Their Initial Values.....	162

Chapter 7 Read this chapter whenever you face a problem. (FAQ).....163

The Machine Doesn't Run.....	164
The Printer Unit Doesn't Run.....	164
Cannot cut off the media.....	165
The Media Take-up System Doesn't Run.....	166
Attractive Printing or Cutting is Impossible.....	167
Printed Results Are Coarse or Contain Horizontal Stripes	167
Colors Are Unstable or Uneven	168
The Media Becomes Soiled When Printed.....	169
Cutting Is Misaligned or Skewed	170
Media Jam Occurs	171
The Media Jams.....	171
The Media Cannot Be Taken Up Smoothly	172

The Media Cannot Be Taken Up Smoothly.....	172
Media Feed is Not Smooth.....	173
Media Wrinkles or Shrinks.....	173
Media Feed Is Not Straight.....	173
Media Feed Is Not Smooth.....	174
The Print Heads Stopped Moving.....	175
What to Do First.....	175
If the Heads Still Do Not Move.....	175
A Message Appears.....	178
An Error Message Appears.....	180
Chapter 8 Main Specifications.....	183
Printing/Cutting Area.....	184
Maximum Area.....	184
Maximum Area When Using Crop Marks.....	185
Media-cutoff Location During Continuous Printing.....	186
About the Blade.....	187
Locations of the Power Rating and Serial Number Labels.....	188
Specifications.....	189

Chapter 1

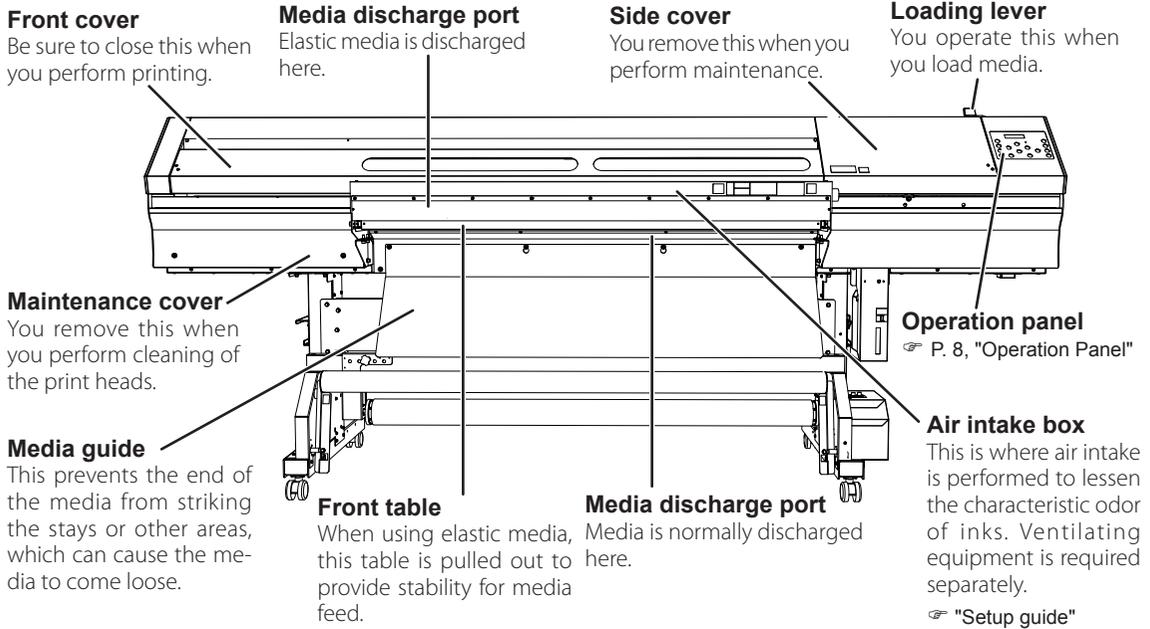
Machine Highlights

Part Names and Functions	6
Printer Unit.....	6
Operation Panel.....	8
Media Take-up System	9
Menu List	10
Main Menu.....	10
Language and Unit Menu	15
Cleaning Menu	15
Cutting Configuration Menu.....	15
 To Ensure Safe Use.....	16
 Pour utiliser en toute sécurité	23
Important Notes on Handling and Use.....	31

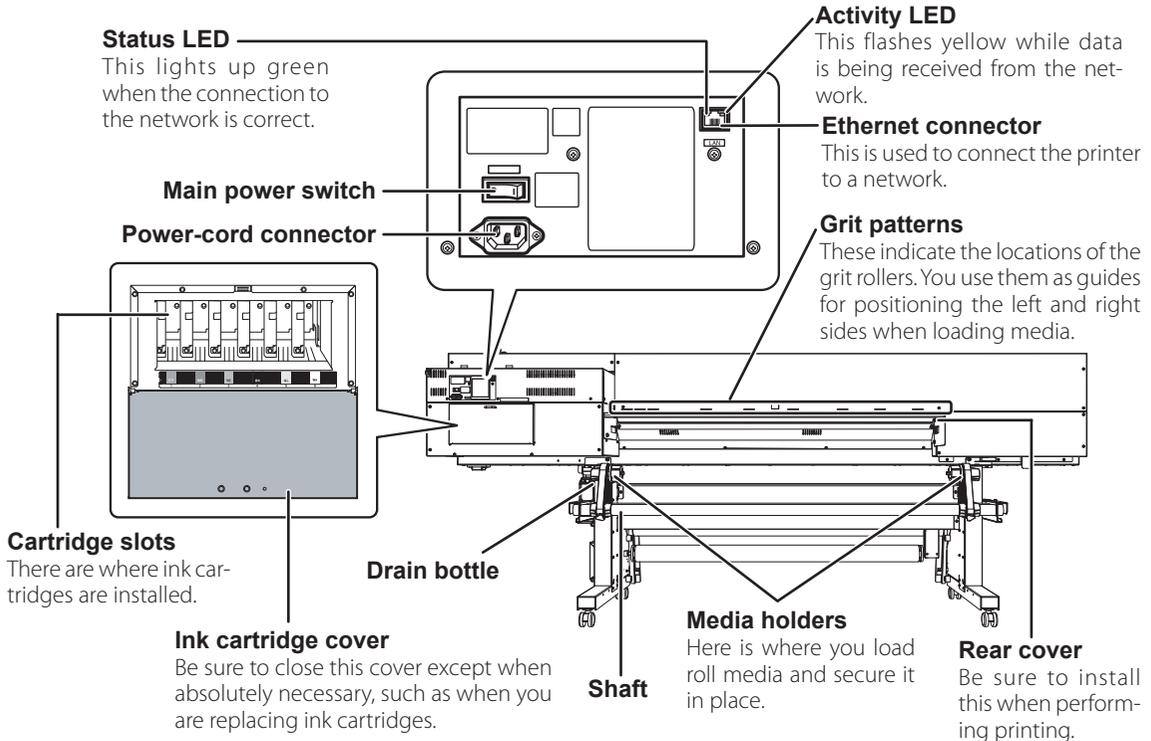
Part Names and Functions

Printer Unit

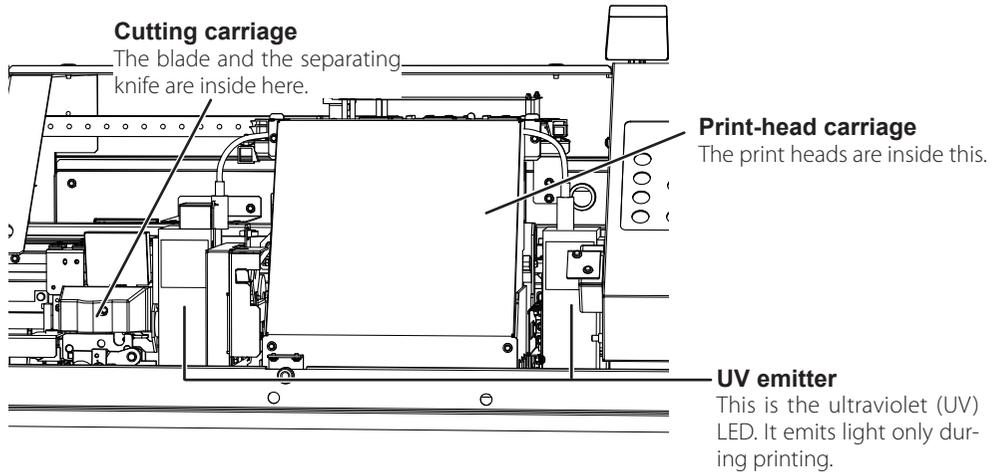
Front



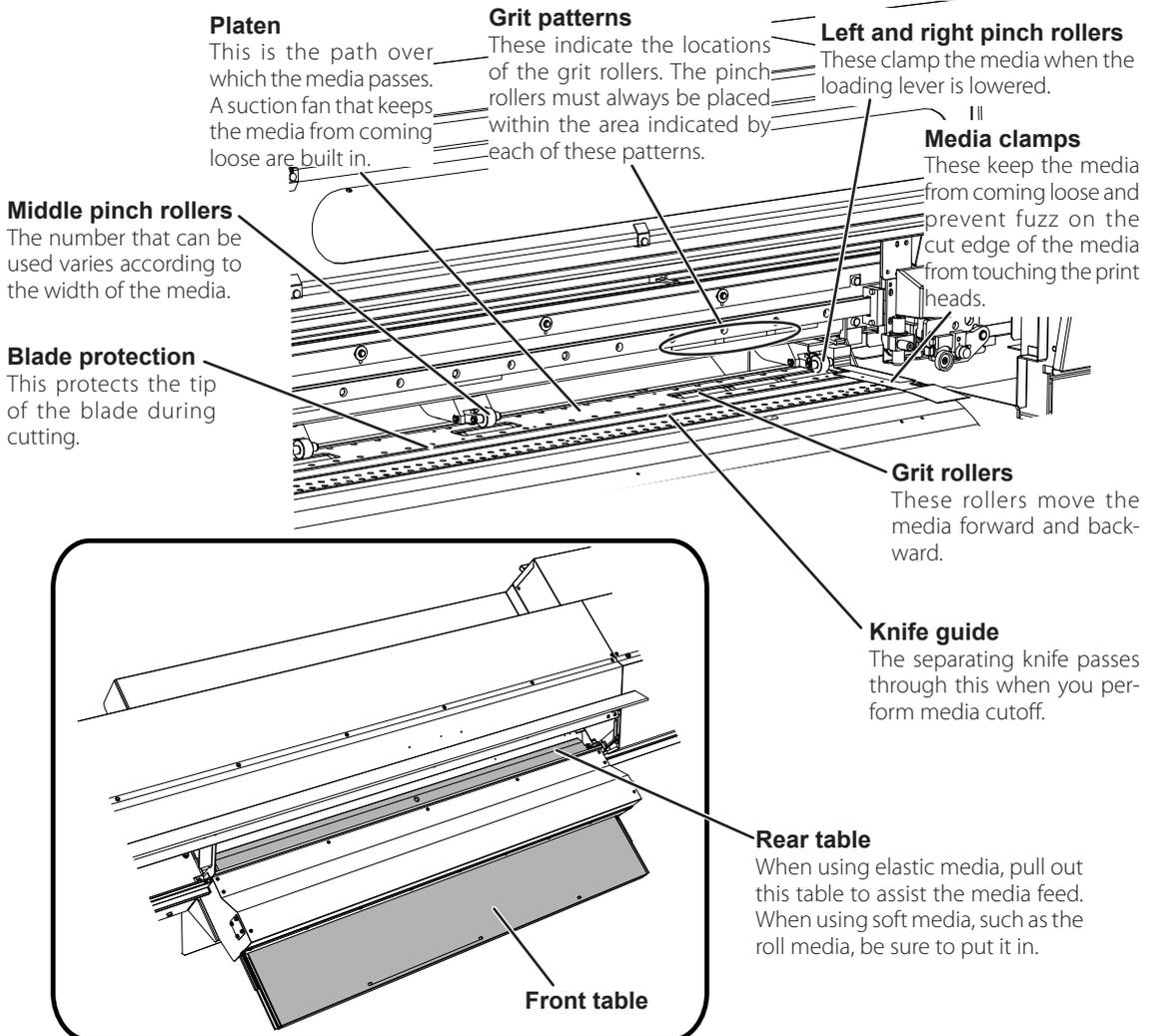
Rear



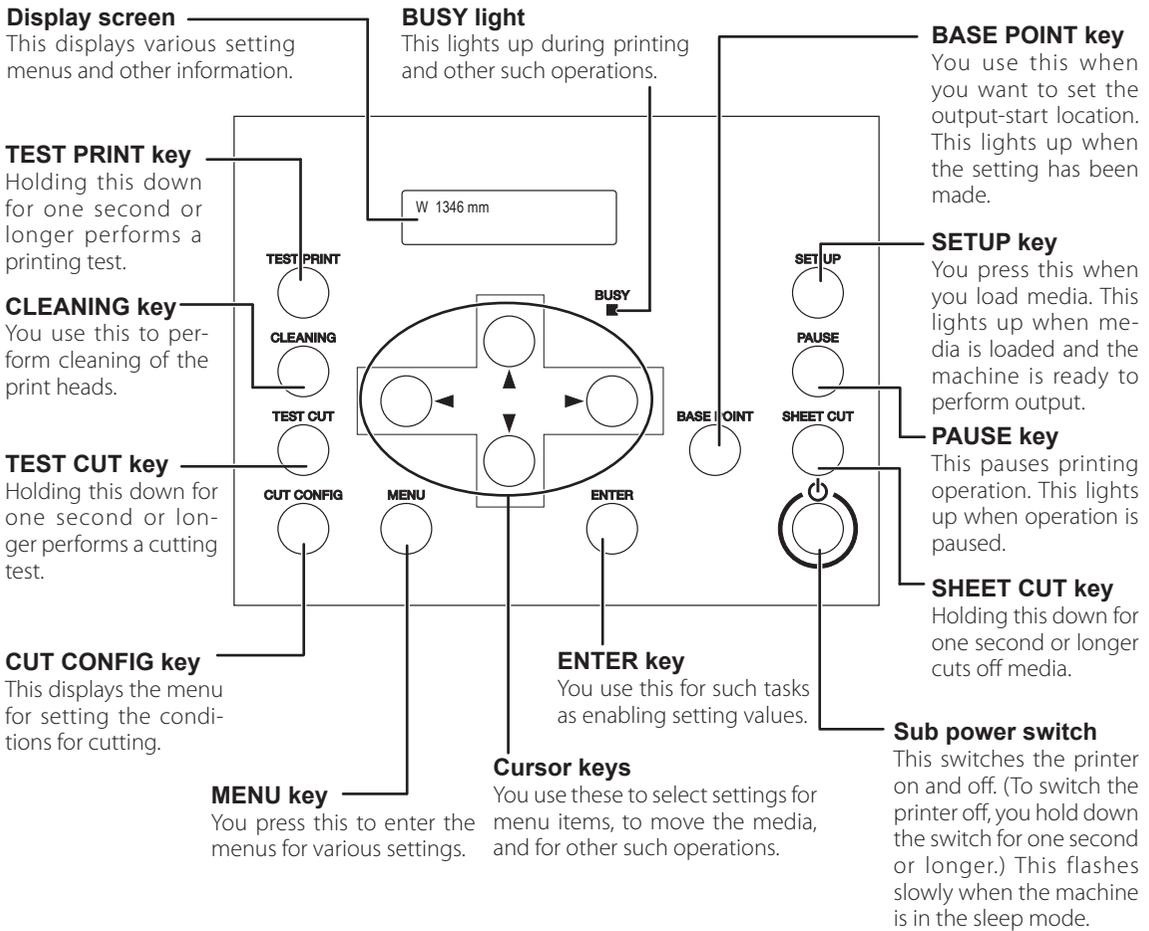
Print head periphery



Front cover inside

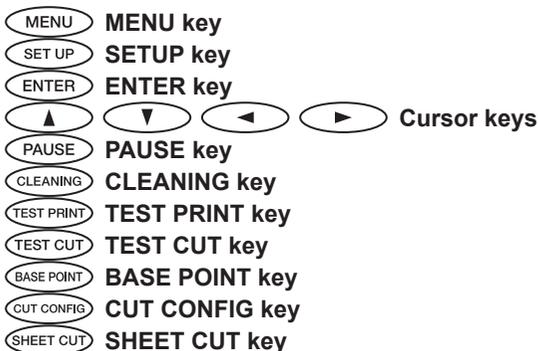


Operation Panel

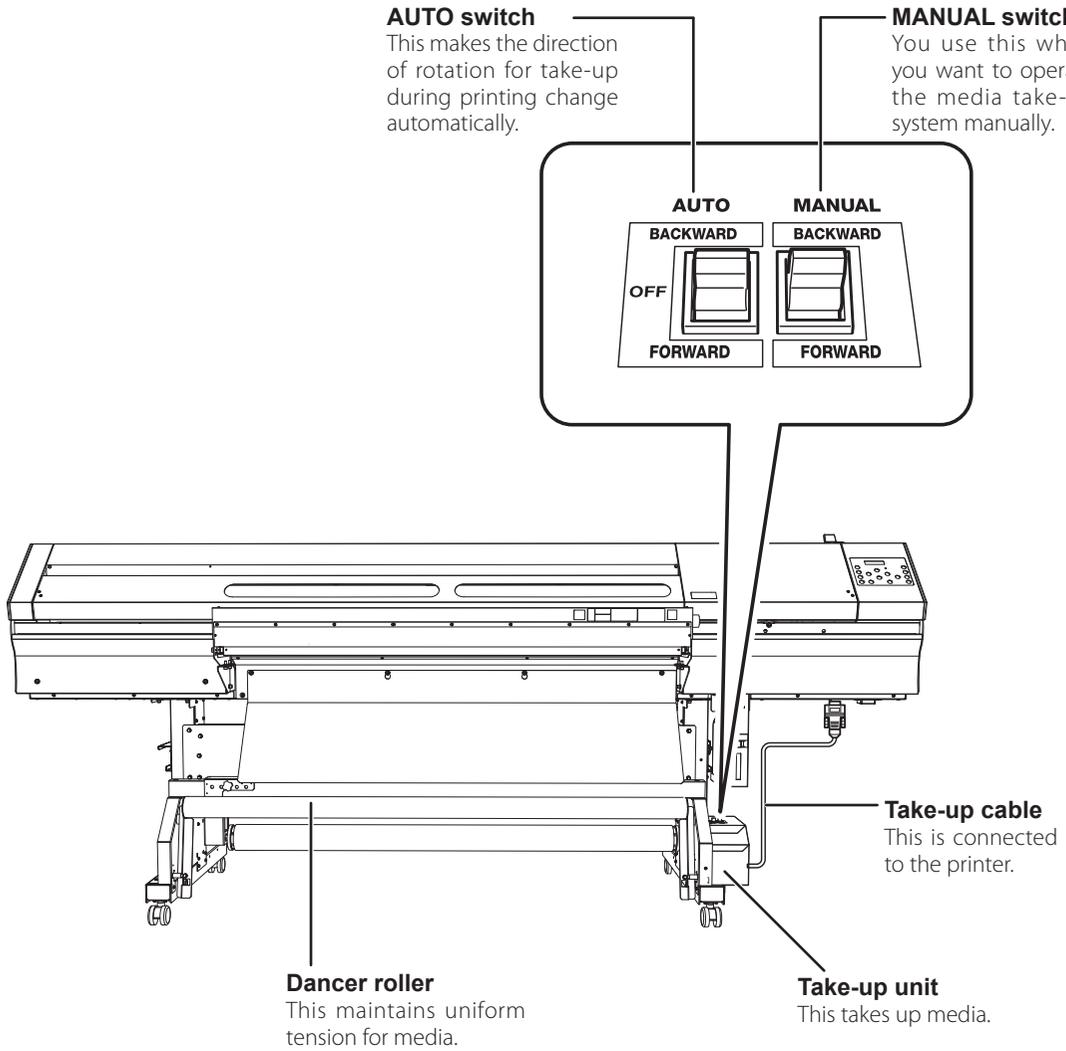


Panel Notation

In this document, the keys and lights on the operation panel are indicated by the following images.



Media Take-up System

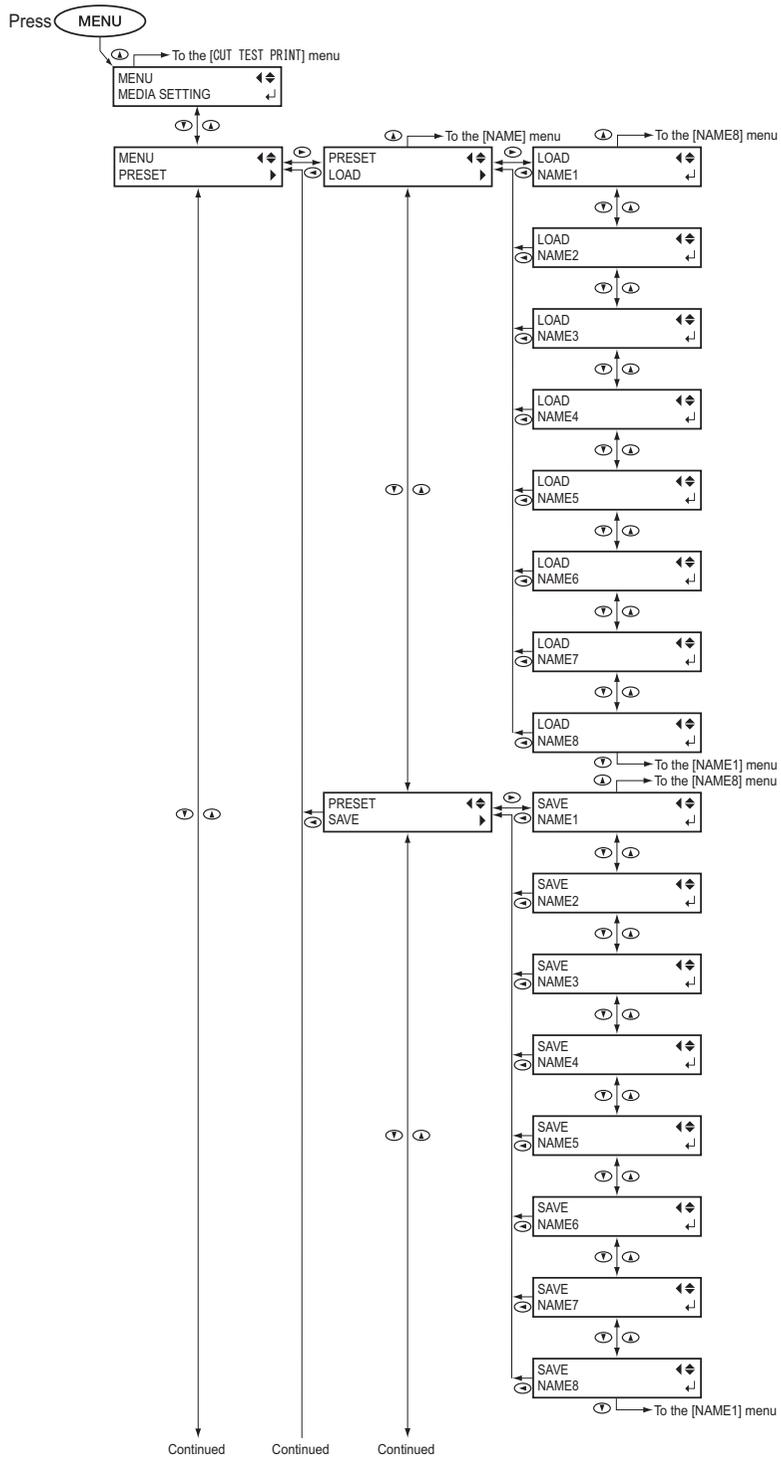


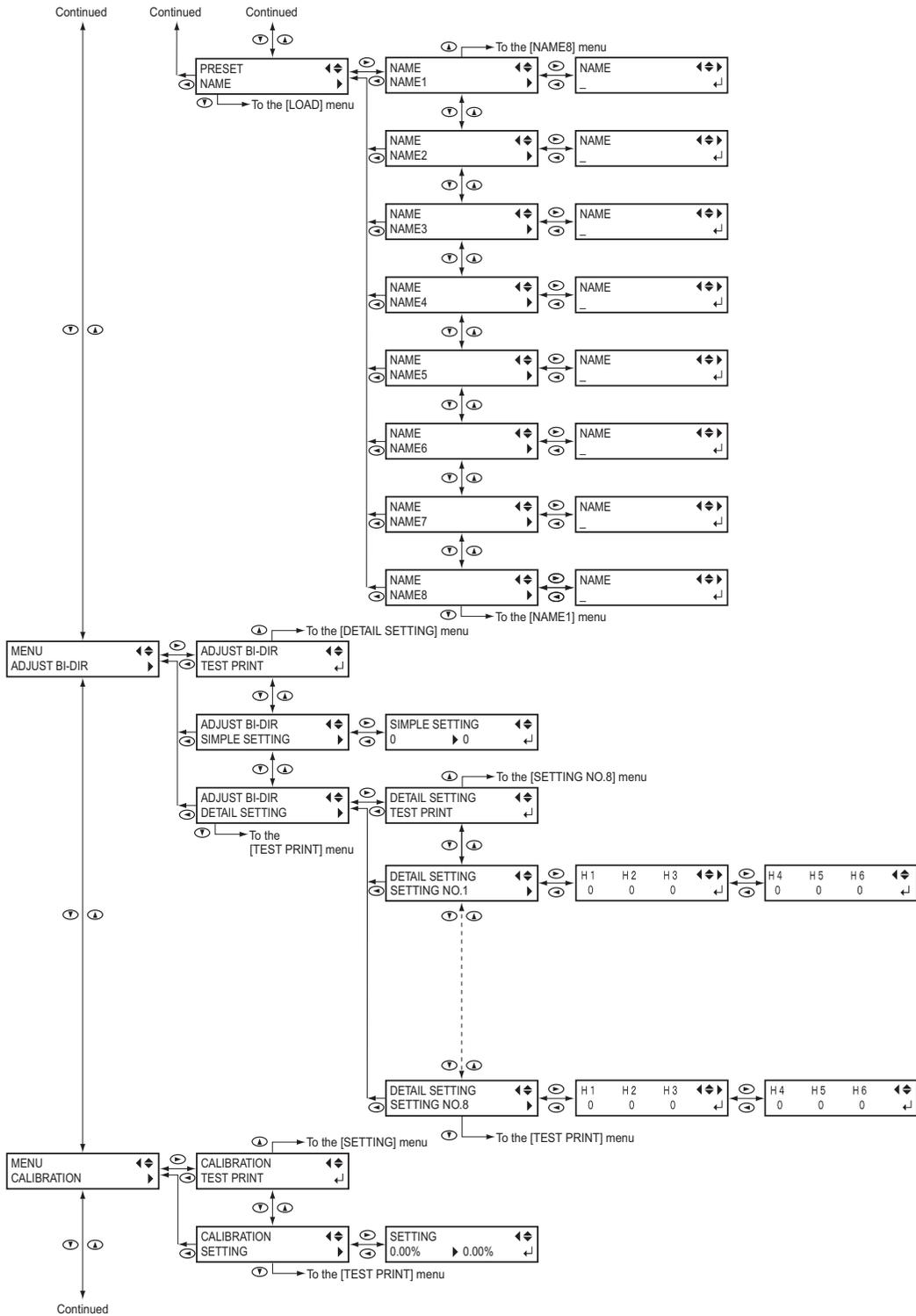
Menu List

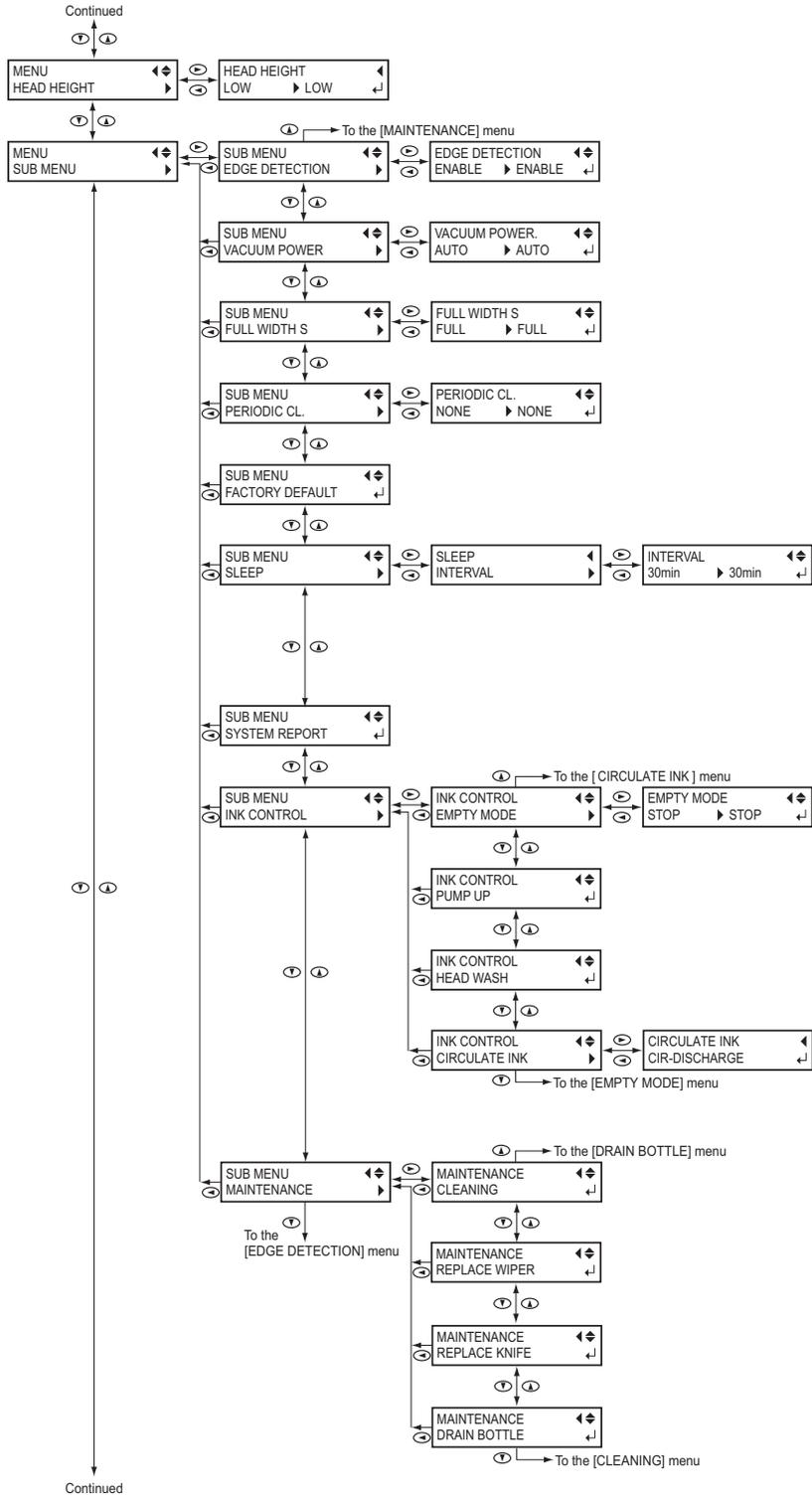
1

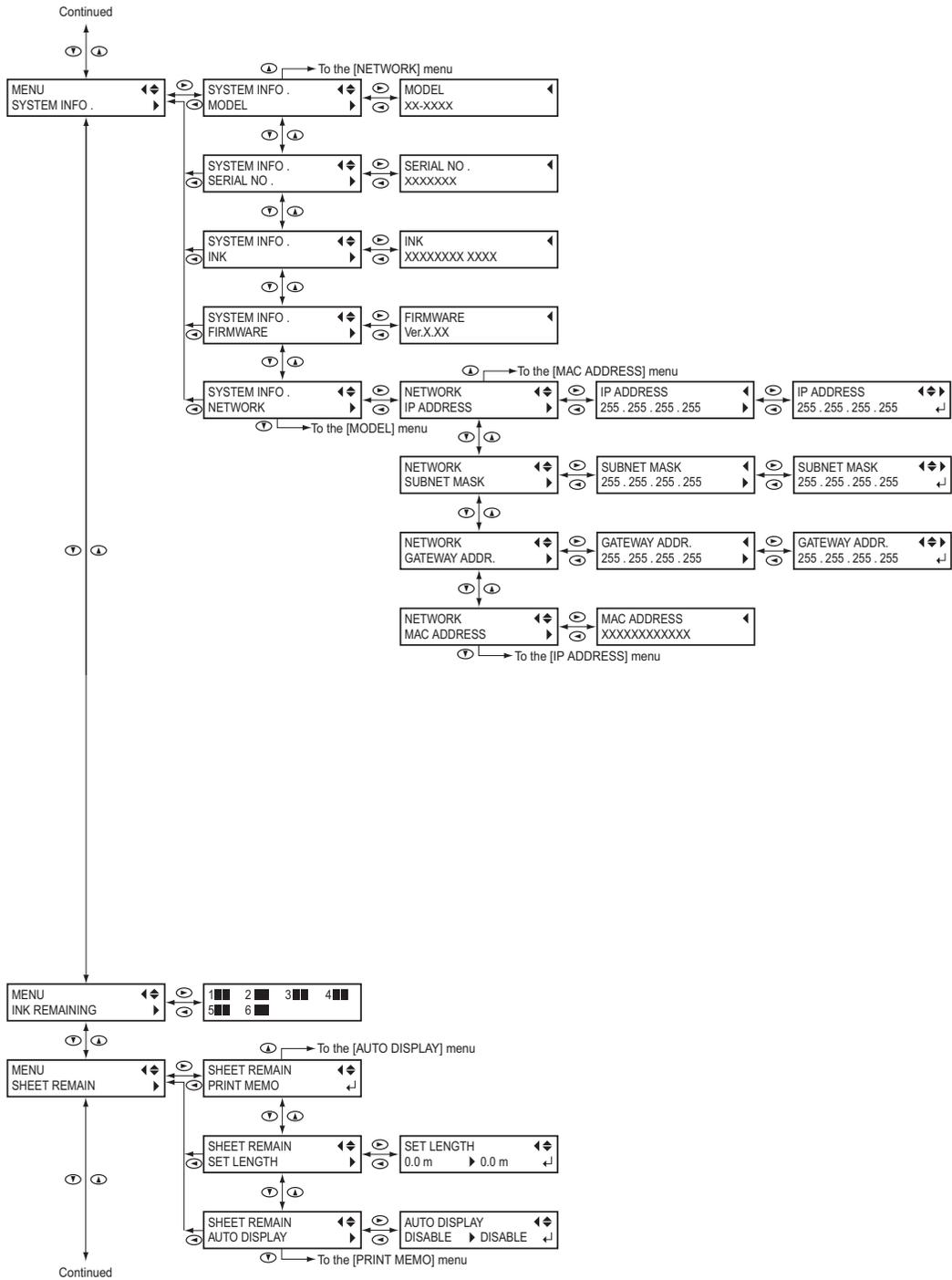
Machine
Highlights

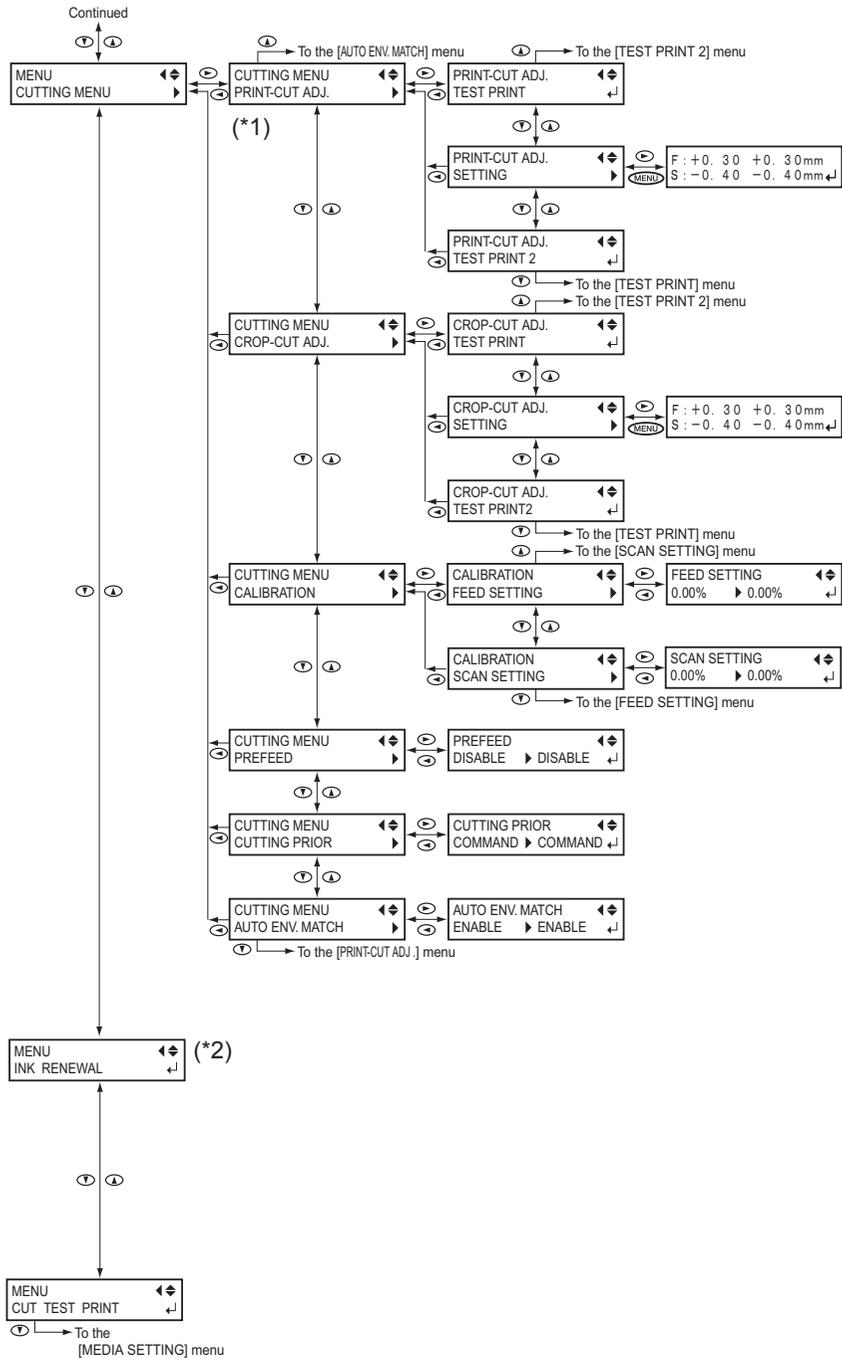
Main Menu









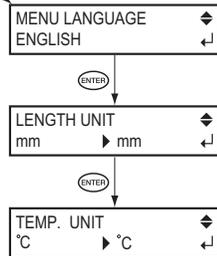


(*1) Holding down **MENU**, and pressing **CUT CONFIG** displays this menu.

(*2) This is not displayed when "CMYKGLGI" (cyan, magenta, yellow, black, gloss, gloss) is selected as the ink mode.

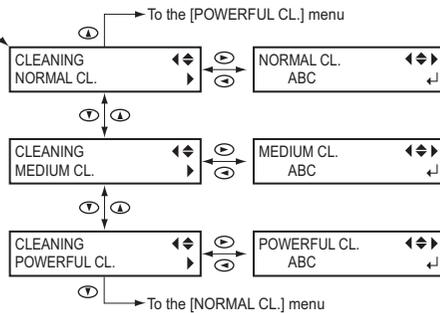
Language and Unit Menu

Hold down **MENU** and switch on the sub power.



Cleaning Menu

Press **CLEANING**.

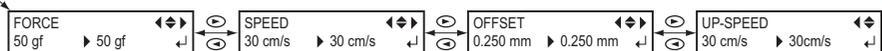


Hold down **CLEANING** for one second or longer.

Normal cleaning for all print heads

Cutting Configuration Menu

Press **CUT CONFIG**.





To Ensure Safe Use

Improper handling or operation of this machine may result in injury or damage to property. Points which must be observed to prevent such injury or damage are described as follows.

About WARNING and CAUTION Notices

 WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
 CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. Note: Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. The symbol at left means "danger of electrocution."
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. The symbol at left means the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. The symbol at left means the power-cord plug must be unplugged from the outlet.

 **Incorrect operation may cause injury**

 **WARNING**

 **Be sure to follow the operation procedures described in this documentation. Never allow anyone unfamiliar with the usage or handling of the machine to touch it.**

Incorrect usage or handling may lead to an accident.

 **Keep children away from the machine.**
The machine includes areas and components that pose a hazard to children and may result in injury, blindness, choking, or other serious accident.

 **Never operate the machine while tired or after ingesting alcohol or any medication.**
Operation requires unimpaired judgment. Impaired judgment may result in an accident.

 **Never use the machine for any purpose for which it is not intended, or use the machine in an undue manner that exceeds its capacity.**
Doing so may result in injury or fire.

 **For accessories (optional and consumable items, power cord, and the like), use only genuine articles compatible with this machine.**
Incompatible items may lead to an accident.

 **Before attempting cleaning, maintenance, or attachment or detachment of optional items, disconnect the power cord.**
Attempting such operations while the machine is connected to a power source may result in injury or electrical shock.

 **WARNING**

 **Never attempt to disassemble, repair, or modify the machine.**
Doing so may result in fire, electrical shock, or injury. Entrust repairs to a trained service technician.

 **CAUTION**

 **Exercise caution to avoid being pinched or becoming caught.**
Inadvertent contact with certain areas may cause the hand or fingers to be pinched or become caught. Use care when performing operations.

 **Never attempt operation while wearing a necktie, necklace, or loose clothing. Bind long hair securely.**
Such items may become caught in the machine, resulting in injury.

 **Conduct operations in a clean, brightly lit location.**
Working in a location that is dark or cluttered may lead to an accident, such as becoming caught in the machine as the result of an inadvertent stumble.

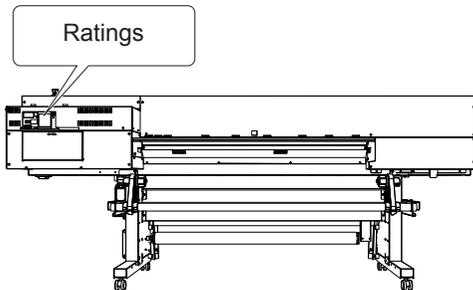
 **Never climb or lean on the machine.**
The machine is not made to support a person. Climbing or leaning on the machine may dislodge components and cause a slip or fall, resulting in injury.

 **Caution: cutting tool.**
This machine has an internal tool. To avoid injury, handle the tool with care.

 **Danger of electrical short, shock, electrocution, or fire**

 **WARNING**

-  **Connect to an electrical outlet that complies with this machine's ratings (for voltage, frequency, and current).** Incorrect voltage or insufficient current may cause fire or electrical shock.



-  **Never use out of doors or in any location where exposure to water or high humidity may occur. Never touch with wet hands.** Doing so may result in fire or electrical shock.

-  **Never allow any foreign object to get inside. Never expose to liquid spills.** Inserting objects such as coins or matches or allowing beverages to be spilled into the ventilation ports may result in fire or electrical shock. If anything gets inside, immediately disconnect the power cord and contact your authorized Roland DG Corp. dealer.

-  **Never place any flammable object nearby. Never use a combustible aerosol spray nearby. Never use in any location where gases can accumulate.** Combustion or explosion may be a danger.

 **WARNING**

-  **Handle the power cord, plug, and electrical outlet correctly and with care. Never use any article that is damaged.** Using a damaged article may result in fire or electrical shock.

-  **When using an extension cord or power strip, use one that adequately satisfies the machine's ratings (for voltage, frequency, and current).** Use of multiple electrical loads on a single electrical outlet or of a lengthy extension cord may cause fire.

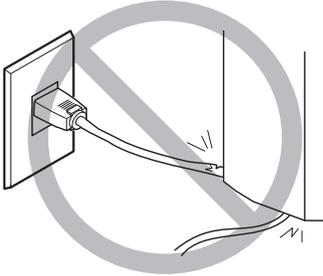
-  **Connect to ground.** This can prevent fire or electrical shock due to current leakage in the event of malfunction.

-  **Position so that the power plug is within immediate reach at all times.** This is to enable quick disconnection of the power plug in the event of an emergency. Install the machine next to an electrical outlet. Also, provide enough empty space to allow immediate access to the electrical outlet.

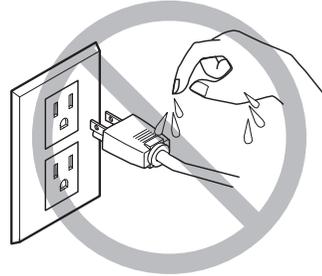
-  **If sparking, smoke, burning odor, unusual sound, or abnormal operation occurs, immediately unplug the power cord. Never use if any component is damaged.** Continuing to use the machine may result in fire, electrical shock, or injury. Contact your authorized Roland DG Corp. dealer.

-  **Do not use the supplied power supply cord for other products.**

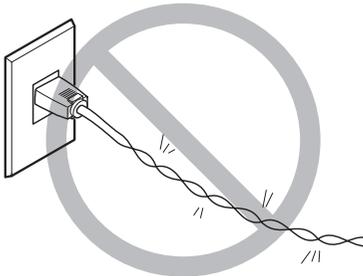
 Important notes about the power cord, plug, and electrical outlet



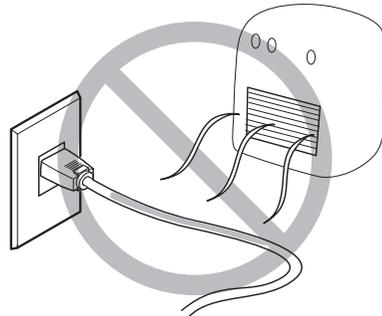
Never place any object on top or subject to damage.



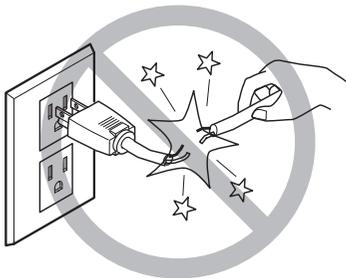
Never allow to get wet.



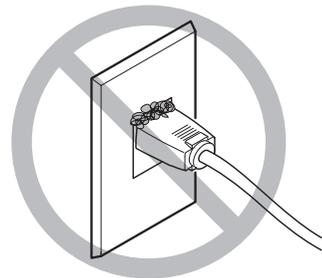
Never bend or twist with undue force.



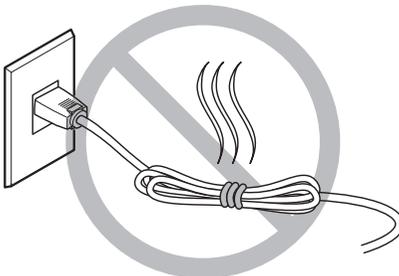
Never make hot.



Never pull with undue force.



Dust may cause fire.



Never bundle, bind, or roll up.

 Ink, cleaning liquid, and discharged fluid are flammable and toxic

 **WARNING**

 **Keep open flame away from the work area.**
Ink and discharged fluid are flammable.

 **Never store ink, cleaning liquid, or discharged fluid in any of the following locations.**

- Any location exposed to open flame
- Any location where high temperature may occur
- Near bleach or any other such oxidizing agent or explosive material
- Any location within the reach of children

Fire may be a danger. Accidental ingestion by children may pose a health hazard.

 **Never place an ink cartridge in fire.**
Ink may flow out, catch fire, and spread fire to other nearby objects.

 **WARNING**

 **Never drink or sniff ink, cleaning liquid, or discharged fluid, or allow them to come in contact with the eyes or skin.**
Doing so may be hazardous to the health.

 **CAUTION**

 **Ensure adequate ventilation for the work area.**
Failing to perform ventilation may result in a health hazard or danger of combustion due to ink fumes.

 **Never allow an ink cartridge to be subjected to impact, and never attempt to disassemble.**
Ink may leak.

 **In the event of ingestion or physical distress**

- In the event of contact with the eyes, immediately flush with water for at least 15 minutes. If eye irritation continues, seek treatment by a physician.
- In the event of contact with skin, immediately wash with soap. If irritation or inflammation occurs, seek treatment by a physician.
- In the event of ingestion, do not induce vomiting, and immediately seek treatment by a physician. Forcibly inducing vomiting may lead to danger of choking.
- If odor leads to physical distress, move to a well-ventilated location and rest quietly. If dizziness or nausea persists, seek treatment by a physician.

*Refer to the safety data sheet (SDS) for information on chemicals contained in ink and their safety.

 This machine weighs 300 kg (661 lb.). Media weighs 30 kg (66 lb.).

 **WARNING**

 **Install the machine in a location that is level, stable, and able to bear the weight of the machine.**

The total weight of the machine may reach 300 kg (661 lb.) or more. Installation in an unsuitable location may cause a major accident, including tip over, fall, or collapse.

 **Unloading and emplacement are operations that must be performed by 6 persons or more.**

Tasks that require undue effort when performed by a small number of persons may result in physical injury. Also, if dropped, such items may cause injury.

 **Be sure to lock the stand's casters.**

If the machine should begin to topple, a major accident may result, including crushing of the appendages or the body.

 **WARNING**

 **When storing roll media, implement adequate safety measures to ensure that the stored media will not roll, fall, or topple over.**

Danger exists of becoming pinned under the media and suffering serious injury.

 **Handling roll media is an operation that must be performed by two persons or more, and care must be taken to prevent falls.**

Attempting to lift heavy media in a manner that taxes your strength may cause physical injury.

 This machine uses ultraviolet light.

 **CAUTION**

 **Never look at the blue-white (ultraviolet) light emitted from the print-head area for an extended time.**

Looking directly at the ultraviolet light from up close for an extended period may result in eye injury.

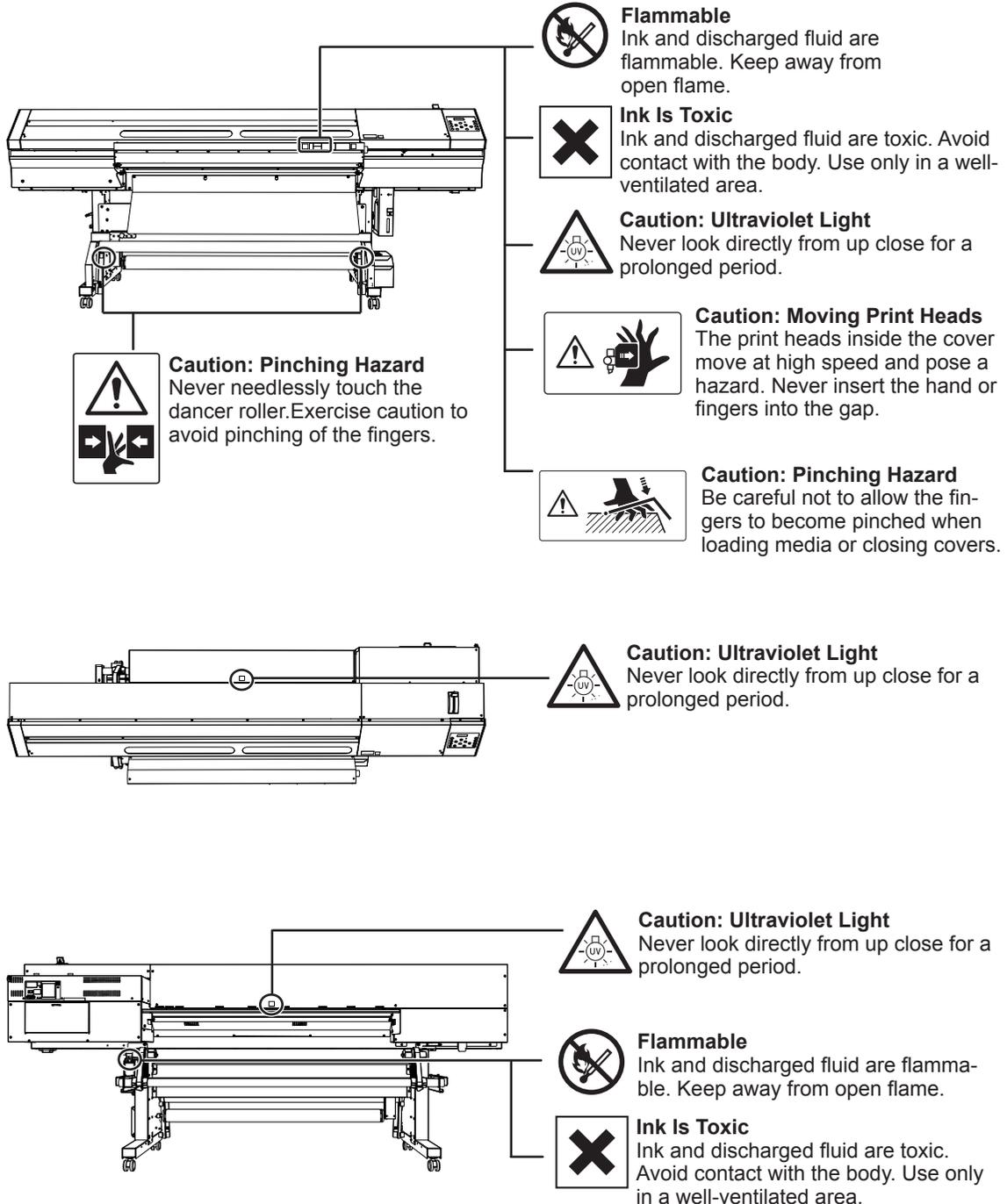
 **Caution: Ultraviolet Light**

This machine is fitted with covers to keep external leakage of ultraviolet light at low levels, but incorrect handling or operation can lead to physical injury due to ultraviolet light. The extent of injury depends on the intensity and wavelength of the ultraviolet light, and the length of time of exposure. Prolonged exposure to strong ultraviolet light of hazardous wavelengths can cause injury to the eyes or skin. Exercise caution.

Warning Labels

Warning labels are affixed to make areas of danger immediately clear. The meanings of these labels are as follows. Be sure to heed their warnings.

Also, never remove the labels or allow them to become obscured.



Caution: Pinching Hazard
Never needlessly touch the dancer roller. Exercise caution to avoid pinching of the fingers.

Flammable
Ink and discharged fluid are flammable. Keep away from open flame.

Ink Is Toxic
Ink and discharged fluid are toxic. Avoid contact with the body. Use only in a well-ventilated area.

Caution: Ultraviolet Light
Never look directly from up close for a prolonged period.

Caution: Moving Print Heads
The print heads inside the cover move at high speed and pose a hazard. Never insert the hand or fingers into the gap.

Caution: Pinching Hazard
Be careful not to allow the fingers to become pinched when loading media or closing covers.

Caution: Ultraviolet Light
Never look directly from up close for a prolonged period.

Caution: Ultraviolet Light
Never look directly from up close for a prolonged period.

Flammable
Ink and discharged fluid are flammable. Keep away from open flame.

Ink Is Toxic
Ink and discharged fluid are toxic. Avoid contact with the body. Use only in a well-ventilated area.



Pour utiliser en toute sécurité

La manipulation ou l'utilisation inadéquates de cet appareil peuvent causer des blessures ou des dommages matériels. Les précautions à prendre pour prévenir les blessures ou les dommages sont décrites ci-dessous.

Avis sur les avertissements

 ATTENTION	Utilisé pour avertir l'utilisateur d'un risque de décès ou de blessure grave en cas de mauvaise utilisation de l'appareil.
 PRUDENCE	Utilisé pour avertir l'utilisateur d'un risque de blessure ou de dommage matériel en cas de mauvaise utilisation de l'appareil. *Par dommage matériel, il est entendu dommage ou tout autre effet indésirable sur la maison, tous les meubles et même les animaux domestiques.

À propos des symboles

	Le symbole  attire l'attention de l'utilisateur sur les instructions importantes ou les avertissements. Le sens précis du symbole est déterminé par le dessin à l'intérieur du triangle. Le symbole à gauche signifie "danger d'électrocution."
	Le symbole  avertit l'utilisateur de ce qu'il ne doit pas faire, ce qui est interdit. La chose spécifique à ne pas faire est indiquée par le dessin à l'intérieur du cercle. Le symbole à gauche signifie que l'appareil ne doit jamais être démonté.
	Le symbole  prévient l'utilisateur sur ce qu'il doit faire. La chose spécifique à faire est indiquée par le dessin à l'intérieur du cercle. Le symbole à gauche signifie que le fil électrique doit être débranché de la prise.

 **L'utilisation incorrecte peut causer des blessures**

 **ATTENTION**

 **S'assurer de suivre les procédures d'utilisation décrites dans la documentation. Ne jamais permettre à quiconque ne connaît pas le fonctionnement ou la manutention de l'appareil de le toucher.** L'utilisation ou la manutention incorrectes peuvent causer un accident.

 **Garder les enfants loin de l'appareil.** L'appareil comporte des zones et des composants qui présentent un danger pour les enfants et qui pourraient causer des blessures, la cécité, la suffocation ou d'autres accidents graves.

 **Ne jamais faire fonctionner l'appareil après avoir consommé de l'alcool ou des médicaments, ou dans un état de fatigue.** L'utilisation de l'appareil exige un jugement sans faille. L'utilisation avec les facultés affaiblies pourrait entraîner un accident.

 **Ne jamais utiliser l'appareil à des fins autres que celles pour lesquelles il est conçu. Ne jamais l'utiliser de manière abusive ou d'une manière qui dépasse sa capacité.** Le non-respect de cette consigne peut causer des blessures ou un incendie.

 **Utiliser uniquement des accessoires d'origine (accessoires en option, articles consommables, câble d'alimentation et autres articles semblables), compatibles avec l'appareil.** Les articles incompatibles risquent de causer des accidents.

 **ATTENTION**

 **Débrancher le câble d'alimentation avant de procéder au nettoyage ou à l'entretien de l'appareil, et avant d'y fixer ou d'en retirer des accessoires en option.** Tenter ces opérations pendant que l'appareil est branché à une source d'alimentation peut causer des blessures ou un choc électrique.

 **Ne jamais tenter de démonter, de réparer ou de modifier l'appareil.** Le non-respect de cette consigne risque de provoquer un incendie, un choc électrique ou des blessures. Confier les réparations à un technicien ayant la formation requise.

 **PRUDENCE**

 **Faire preuve de prudence pour éviter l'écrasement ou le coincement.** La main ou les doigts peuvent être écrasés ou coincés s'ils entrent en contact avec certaines surfaces par inadvertance. Faire preuve de prudence pendant l'utilisation de l'appareil.

 **Ne jamais faire fonctionner l'appareil si on porte une cravate, un collier ou des vêtements amples. Bien attacher les cheveux longs.** Ces vêtements ou ces objets peuvent être coincés dans l'appareil, ce qui causerait des blessures.

 **Utiliser l'appareil dans un endroit propre et bien éclairé.** Travailler dans un endroit sombre ou encombré peut causer un accident; l'utilisateur risque, par exemple, de trébucher malencontreusement et d'être coincé par une partie de l'appareil.

⚠ PRUDENCE



Ne jamais grimper ni s'appuyer sur la machine.

La machine n'est pas conçue pour supporter le poids d'une personne. Grimper ou s'appuyer sur la machine peut déplacer des éléments et causer un faux pas ou une chute, ce qui causerait des blessures.

⚠ PRUDENCE



Attention : outil de coupe.

Cet appareil contient un outil interne. Pour éviter les blessures, manipuler l'outil avec soin.



Risque de décharge ou de choc électrique, d'électrocution ou d'incendie

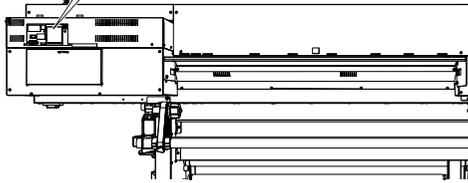
⚠ ATTENTION



Brancher à une prise électrique conforme aux caractéristiques de cet appareil (tension, fréquence et courant).

Une tension incorrecte ou un courant insuffisant peuvent causer un incendie ou un choc électrique.

Caractéristiques



Ne jamais utiliser à l'extérieur ni à un endroit où l'appareil risque d'être exposé à de l'eau ou à une humidité élevée. Ne jamais toucher l'appareil avec des mains mouillées.

Le non-respect de cette consigne risque de provoquer un incendie ou un choc électrique.

⚠ ATTENTION



Ne jamais insérer d'objet étranger dans l'appareil. Ne jamais exposer l'appareil aux déversements de liquides.

L'insertion d'objets comme des pièces de monnaie ou des allumettes, ou le déversement de liquides dans les orifices de ventilation peuvent causer un incendie ou un choc électrique. Si un objet ou du liquide s'infilte dans l'appareil, débrancher immédiatement le câble d'alimentation et communiquer avec le représentant Roland DG Corp. autorisé.



Ne jamais placer d'objet inflammable à proximité de l'appareil. Ne jamais utiliser de produit inflammable en aérosol à proximité de l'appareil. Ne jamais utiliser l'appareil dans un endroit où des gaz peuvent s'accumuler.

Une combustion ou une explosion pourraient se produire.

 **Risque de décharge ou de choc électrique, d'électrocution ou d'incendie**

 **ATTENTION**

 **Manipuler le câble d'alimentation, la fiche et la prise électrique correctement et avec soin.**

Ne jamais utiliser un article endommagé, car cela pourrait causer un incendie ou un choc électrique.

 **Si une rallonge ou une bande d'alimentation électrique sont utilisées, s'assurer qu'elles correspondent aux caractéristiques de l'appareil (tension, fréquence et courant).**

L'utilisation de plusieurs charges électriques sur une prise unique ou une longue rallonge peut causer un incendie.

 **Mise à la terre.**

La mise à la terre peut prévenir un incendie ou un choc électrique dus à une fuite de courant en cas de défaillance.

 **Placer l'appareil de façon à ce que la fiche soit facile d'accès en tout temps.**

Ainsi, l'appareil pourra être débranché rapidement en cas d'urgence. Installer l'appareil près d'une prise électrique. En outre, prévoir suffisamment d'espace pour que la prise électrique soit facile d'accès.

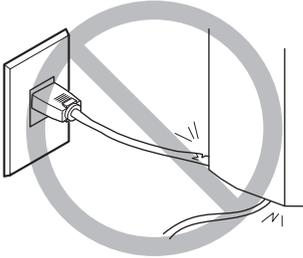
 **ATTENTION**

 **S'il se produit des étincelles, de la fumée, une odeur de brûlé, un bruit inhabituel ou un fonctionnement anormal, débrancher immédiatement le câble d'alimentation. Ne jamais utiliser si un composant est endommagé.**

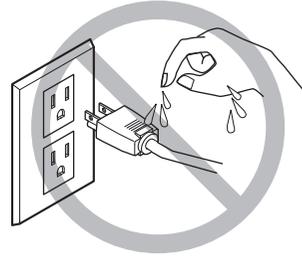
Continuer à utiliser l'appareil peut causer un incendie, un choc électrique ou des blessures. Communiquer avec le représentant Roland DG Corp. Autorisé.

 **Ne pas utiliser le cordon électrique fourni avec d'autres produits.**

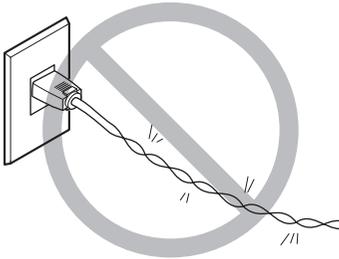
⚠ Remarques importantes à propos du câble d'alimentation, de la fiche et de la prise électrique



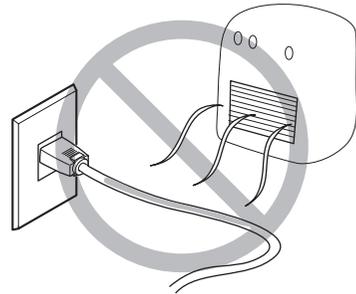
Ne jamais déposer aucun objet sur le câble, sur la fiche ou sur la prise car cela risque de les endommager.



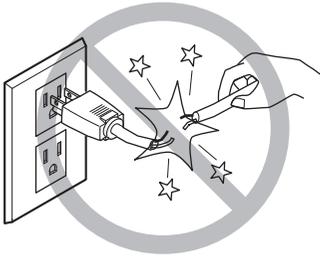
Ne jamais laisser l'eau toucher le câble, la fiche ou la prise.



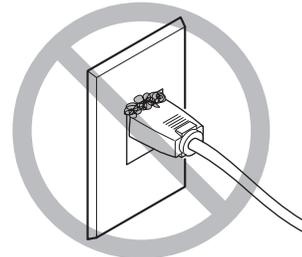
Ne jamais plier ni tordre le câble avec une force excessive.



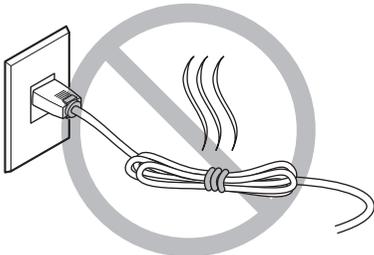
Ne jamais chauffer le câble, la fiche ou la prise.



Ne jamais tirer sur le câble ou la fiche avec une force excessive.



La poussière peut causer un incendie.



Ne jamais plier ni enrouler le câble.

 **L'encre, les liquides nettoyeurs et les liquides usés sont inflammables et toxiques**

 **ATTENTION**



Ne pas approcher une flamme nue de l'espace de travail.

L'encre et les liquides usés sont inflammables.



Ne jamais entreposer d'encre, de liquide de nettoyage ou des liquides usés dans les endroits suivants :

- un endroit exposé à une flamme nue;
- un endroit où il y a risque de température élevée;
- près d'eau de Javel, d'un autre agent d'oxydation ou de matériel explosif;
- tout endroit à la portée d'enfants.

Il y a risque d'incendie. L'ingestion accidentelle par un enfant peut présenter un risque pour la santé.



Ne jamais incinérer une cartouche d'encre.

De l'encre pourrait couler, s'enflammer et le feu se répandre à des objets proches.

 **ATTENTION**



Ne jamais boire l'encre, le liquide de nettoyage ni les liquides usés, ne pas en respirer les vapeurs et ne pas laisser les produits entrer en contact avec les yeux ou la peau.

Cela est dangereux pour la santé.

 **PRUDENCE**



S'assurer que le lieu de travail est bien aéré.

L'absence d'aération adéquate peut créer une situation dangereuse pour la santé ou un risque de combustion à cause des vapeurs qui émanent de l'encre.



Ne jamais soumettre une cartouche d'encre à des chocs. Ne jamais tenter d'ouvrir une cartouche d'encre.

De l'encre pourrait s'échapper.

 **En cas d'ingestion ou de trouble physique**

- En cas de contact avec les yeux : rincer immédiatement et abondamment à l'eau courante pendant au moins 15 minutes. Si les yeux sont toujours irrités, consulter un médecin.
- En cas de contact avec la peau : laver immédiatement à l'eau et au savon. En cas d'irritation ou d'inflammation de la peau : consulter un médecin.
- En cas d'ingestion : ne pas provoquer le vomissement et demander immédiatement l'aide d'un médecin. Provoquer le vomissement peut créer un risque de suffocation.
- Si l'odeur cause un trouble physique, amener la personne dans un endroit bien aéré et la faire se reposer. Si l'étourdissement ou la nausée persistent, consulter un médecin.

* Se référer à la fiche technique de sécurité (SDS = safety data sheet) pour toute information sur les produits chimiques contenus dans l'encre et les instructions de sécurité associées.

 **Le poids de cet appareil est de 300 kg (661 lb.)
Le poids du support est de 30 kg (66 lb.)**

ATTENTION



Installer l'appareil à un endroit stable et plat et capable de supporter son poids.
Le poids total de l'appareil peut être d'au moins 300 kg (661 lb.). Installer l'appareil à un endroit inapproprié peut provoquer un accident grave comme le renversement, la chute ou l'écrasement.



Le déchargement et la mise en place doivent être faits par au moins six personnes.
Les tâches qui exigent un effort trop grand si elles sont exécutées par un petit nombre de personnes peuvent être cause de blessures. La chute d'articles très lourds peut aussi causer des blessures.

ATTENTION



S'assurer de verrouiller les roulettes de la base.
Si l'appareil devait commencer à basculer, il s'ensuivrait un accident grave, par exemple l'écrasement de membres ou du corps.



Prendre les mesures de sécurité adéquates pour l'entreposage des rouleaux de support pour s'assurer qu'ils ne rouleront pas, ne tomberont pas et ne se renverseront pas.
Il y a risque d'être écrasé par le support et de subir des blessures graves.



La manutention du support en rouleau doit être faite par deux personnes ou plus et il faut prendre des précautions pour éviter les chutes.
Tenter de soulever des objets trop lourds peut causer des blessures.

 **Cet appareil utilise des rayons ultraviolets.**

PRUDENCE



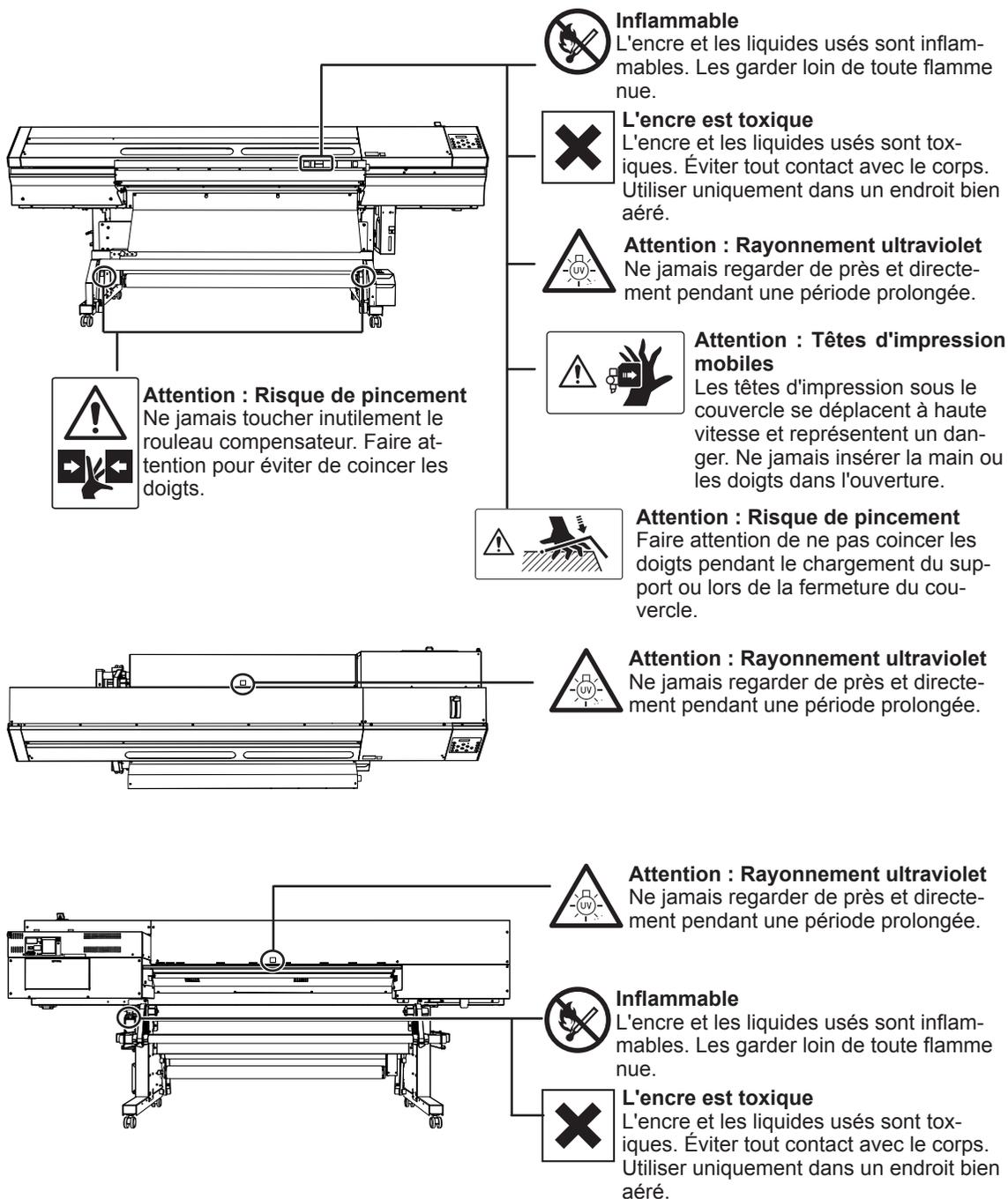
Ne jamais regarder pendant de longues périodes le rayonnement blanc bleuté (ultraviolet) émis par la tête d'impression.
Le fait de regarder directement et de près le rayonnement ultraviolet pendant une période prolongée peut causer des lésions oculaires.

Attention : Rayonnement ultraviolet

Cet appareil est muni de couvercles destinés à empêcher les fuites de rayonnement ultraviolet à faible niveau, mais sa manipulation ou son utilisation incorrectes peuvent causer des lésions dues au rayonnement ultraviolet. La gravité des lésions est fonction de l'intensité et de la longueur d'onde du rayonnement ultraviolet et de la durée de l'exposition. L'exposition prolongée à un fort rayonnement ultraviolet de longueur d'onde dangereuse peut causer des lésions oculaires ou cutanées. La prudence est de rigueur.

⚠ Vignettes d'avertissement

Des vignettes d'avertissement sont apposées pour qu'il soit facile de repérer les zones dangereuses. La signification des vignettes est donnée ci-dessous. Respecter les avertissements. Ne jamais retirer les vignettes et ne pas les laisser s'encrasser.



Attention : Risque de pincement
Ne jamais toucher inutilement le rouleau compensateur. Faire attention pour éviter de coincer les doigts.

Inflammable
L'encre et les liquides usés sont inflammables. Les garder loin de toute flamme nue.

L'encre est toxique
L'encre et les liquides usés sont toxiques. Éviter tout contact avec le corps. Utiliser uniquement dans un endroit bien aéré.

Attention : Rayonnement ultraviolet
Ne jamais regarder de près et directement pendant une période prolongée.

Attention : Têtes d'impression mobiles
Les têtes d'impression sous le couvercle se déplacent à haute vitesse et représentent un danger. Ne jamais insérer la main ou les doigts dans l'ouverture.

Attention : Risque de pincement
Faire attention de ne pas coincer les doigts pendant le chargement du support ou lors de la fermeture du couvercle.

Attention : Rayonnement ultraviolet
Ne jamais regarder de près et directement pendant une période prolongée.

Attention : Rayonnement ultraviolet
Ne jamais regarder de près et directement pendant une période prolongée.

Inflammable
L'encre et les liquides usés sont inflammables. Les garder loin de toute flamme nue.

L'encre est toxique
L'encre et les liquides usés sont toxiques. Éviter tout contact avec le corps. Utiliser uniquement dans un endroit bien aéré.

Important Notes on Handling and Use

This machine is a precision device. To ensure the full performance of this machine, be sure to observe the following important points. Failure to observe them may not only result in loss of performance, but may also cause malfunction or breakdown.

Printer Unit

This machine is a precision device.

- Handle carefully, and never subject the machine to impact or excessive force.
- Never needlessly put your hand or fingers inside the cover, the ink-cartridge ports, or other internal areas of the machine.

Install in a suitable location.

- Install in a location having the specified temperature and relative humidity.
- Install in a quiet, stable location offering good operating conditions.

The printing heads and the UV emitter are delicate devices.

- Never needlessly touch or allow media to scrape them. Failure to handle with care may cause damage.
- The print heads may be damaged if allowed to dry out. The machine prevents desiccation automatically, but improper operation may render this feature inoperative. Operate properly, as specified in this manual.
- Never allow the machine to stand with an ink cartridge removed. Remaining ink in the printer may harden and clog the print heads.
- The print heads are components that wear out. Periodic replacement is required, with the frequency of replacement depending on use.

Ink Cartridges

Ink cartridges come in various types.

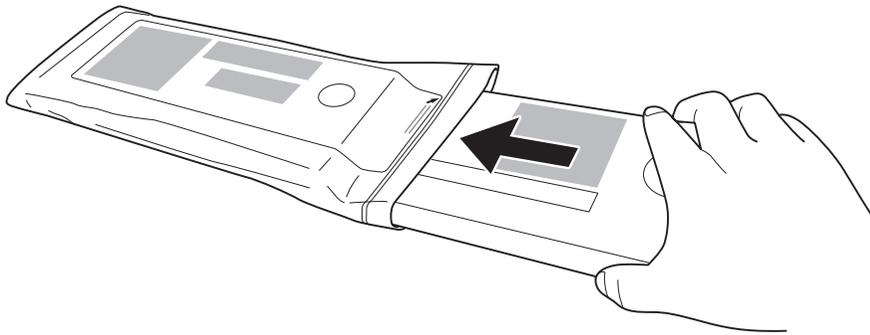
- Use a type that is compatible with the printer. Also, be sure to use only genuine items from Roland DG Corp.

Never subject to impact or attempt to disassemble.

- Never drop or shake forcefully. The impact may rupture the internal pouch and cause the ink to leak.
- Never attempt to disassemble.
- Never attempt to refill the ink.
- If ink gets on your hands or clothing, wash it off as soon as possible. Removal may become difficult if allowed to stand.

Storage

- Use up the ink before the expiration date printed on the ink cartridge.
- Store the ink cartridge in a location avoiding direct sunlight or strong illumination.
- Store the ink cartridge unopened in a well-ventilated location at a temperature of over 5°C (41°F) and under 35°C (95°F) and relative humidity of 20 to 80%.
- Once opened, store the ink cartridge in the sealed original (shading) bag. (This is limited to the case in which the ink cartridge is purchased in a shading bag.)



Chapter 2

Basic Operation

Prepare the Media	34
Type of Media	34
Usable Media.....	34
Switch On.....	35
Switch On	35
The Power-saving Feature (Sleep Mode).....	35
Loading Media	36
Loading Roll Media.....	36
Loading the Sheet Media.....	46
Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely).....	53
Setup of Media.....	55
About [MEDIA SETTING] menu	55
Setup of Media ([MEDIA SETTING] menu)	55
Outputting	66
Setting the Output-start Location.....	66
Printing Tests and Normal Cleaning	67
Important Note on Cutting	69
The Cutting Test And Setting The Blade Force	71
Getting Ready to Receive Data from a Computer.....	73
Starting Output	74
Pausing and Canceling Output.....	75
Cutting Off the Media.....	75
Switch Off.....	77
Switch Off	77

Prepare the Media

Type of Media

In this manual, the paper used for output is called "media." There are the following main two media types used in this machine.

- **Roll media: Media wound onto a paper tube**
- **Sheet media: Media not wound onto a paper tube such as standard-size media**

Various paper quality types of roll media and sheet media are selectable according your purpose. For detailed information about each media, contact your media supplier. Media is also available from our following website.
<http://www.rolanddg.com/>

Usable Media

This machine cannot necessarily print every kind of media. When selecting media, be sure to carry out testing in advance to make sure that satisfactory printing quality is obtained.

Size

Width (For both roll media and sheet media)

260 to 1371 mm (10.25 to 54 inches)

A)Cutttable media thickness (For both roll media and sheet media)

0.08 mm to 0.22 mm (3.2 to 8.6 mil) (depending on media composition)

B)Maximum media thickness (For both roll media and sheet media)

Printing only: 1.0 mm (39 mil)

When performing cutting: 0.4 mm (15 mil)

Roll outer diameter

210 mm (8.2 inches)

Paper tube (core) inner diameter

76.2 mm (3 inches) or 50.8 mm (2 inches)

Note: To use 2 inches media, the optional media flanges are required. For information about optional items, contact your authorized dealer or us.

Roll weight

30 kg (66 lb.)

Other conditions

Media such as the following cannot be used.

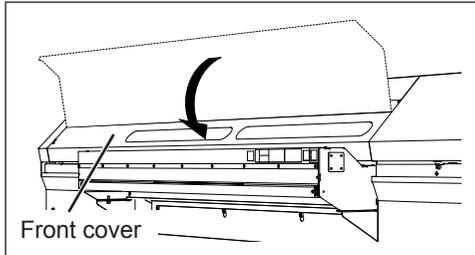
- Media whose end is attached to the paper tube (core)
- Media which is severely warped or which has a strong tendency to reroll
- Media that cannot withstand the tensioning of the media take-up or feed system
- Media whose paper tube (core) is bent or crushed
- Media that bends under its own weight when loaded
- Media on a sagging roll
- Media that is rolled unevenly
- Media that has an electrostatic charge

Switch On

Switch On

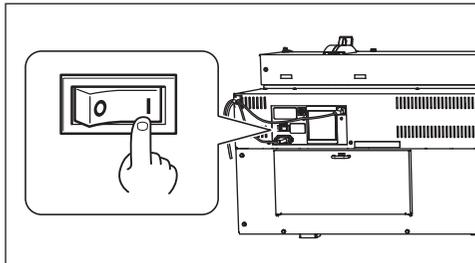
Procedure

1



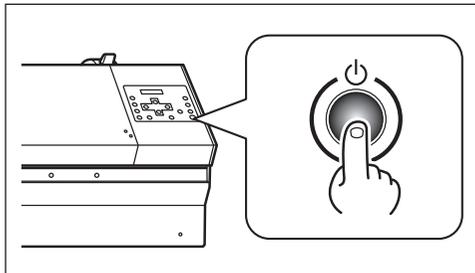
Close the front cover.

2



Turn on the main power switch.

3



Press the sub power button.

Note: For installation of the ink cartridge and selection of the language displayed on the display screen, refer to Setup Guide.

The Power-saving Feature (Sleep Mode)

This machine is provided with a power-saving feature that switches to a low-power "sleep mode" when a fixed interval passes with no operation. The factory default for the time after which the machine switches to the sleep mode is 30 minutes. When the machine is in the sleep mode, the sub power switch flashes slowly. Using the operation panel or performing operations such as sending output data from the computer (when media is loaded) restores the machine to its normal mode.

We recommend setting the activation time for the sleep mode to 30 minutes or less.

☞ P. 160, "Setting the Interval until Activation of the Sleep Mode (Power Saving Function)"

Loading Media

Loading Roll Media

⚠ CAUTION

Load roll media correctly.
Otherwise the media may fall and cause injury.

⚠ CAUTION

Roll media weighs about 30 kg (66 lb.). Handling roll media is an operation that must be performed by two persons or more, and care must be taken to prevent falls.

Attempting to lift heavy media in a manner that taxes your strength may cause physical injury. Also, if dropped, such items may cause injury.

⚠ CAUTION

Never load media that weighs more than 30 kg (66 lb.) .

The machine may fail to withstand the weight and tip over or cause the media to fall.

⚠ CAUTION

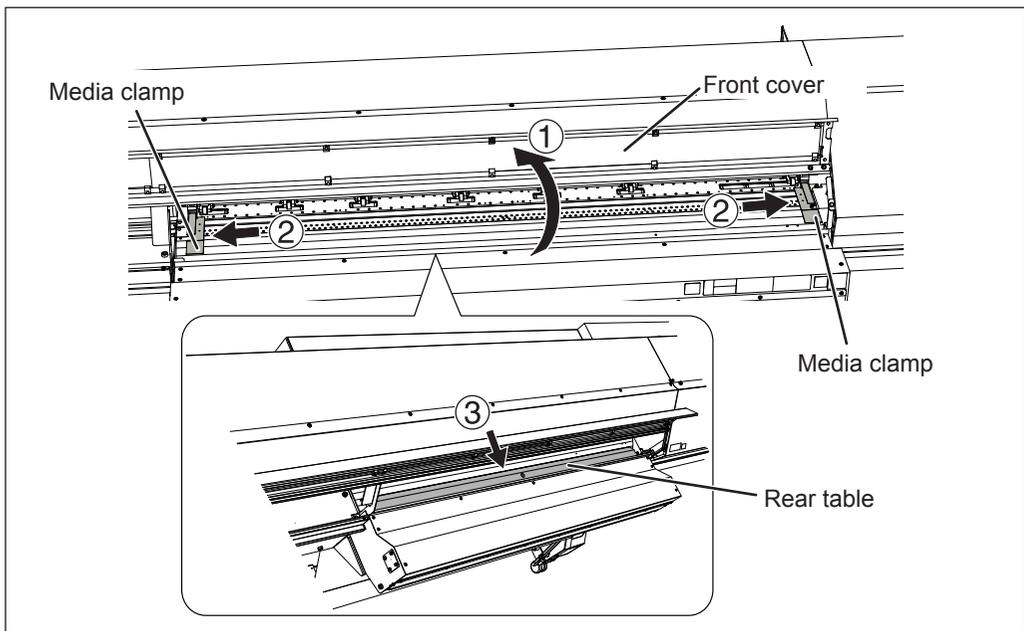
When performing printing, be sure to attach the rear cover.

When the rear cover is not installed, ultraviolet light can escape from the machine more easily.

1. Install the media to the media holder.

Note: The media holder of this machine is exclusive use for the media of paper tube (core) inner diameter 3 inches. To use 2 inches media, the optional media flanges are required. For information about optional items, contact your authorized dealer or us.

- ① **Open the front cover.**
- ② **Move the right and left media clamps to each end.**
- ③ **Put the rear table back in place.**



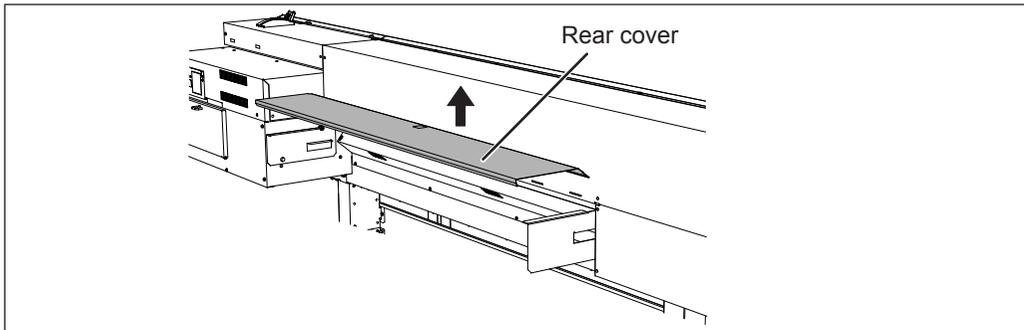
Continued on the next page

IMPORTANT!

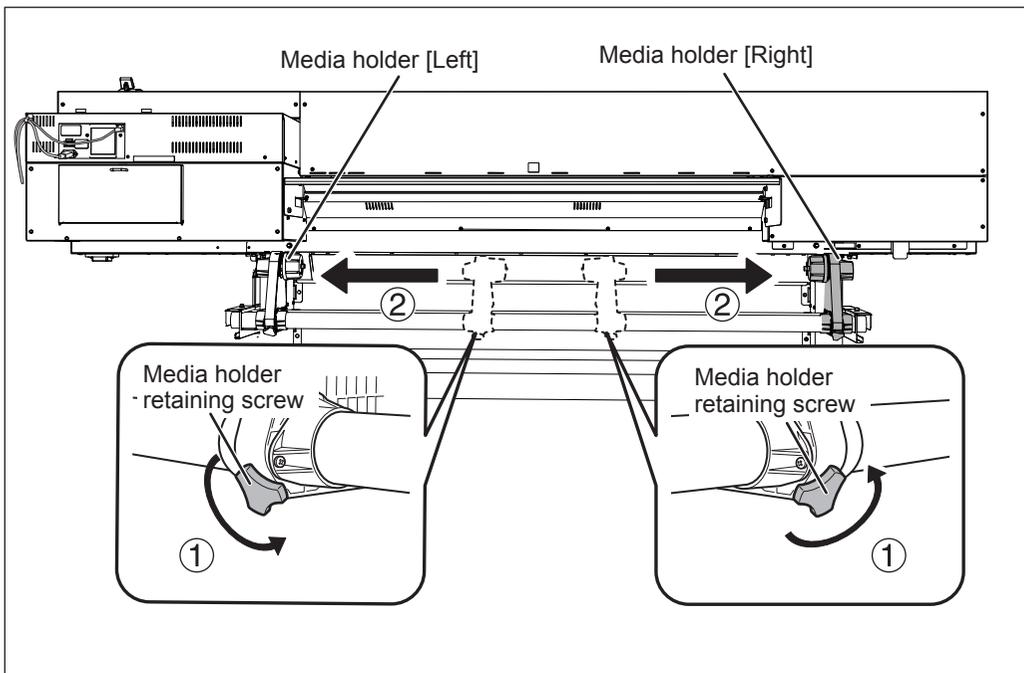
When using soft media, be sure to put the rear table back in place.

In using soft media such as the roll media, put the rear table back in place. Otherwise it causes unstable media feed and may result in malfunctions or troubles.

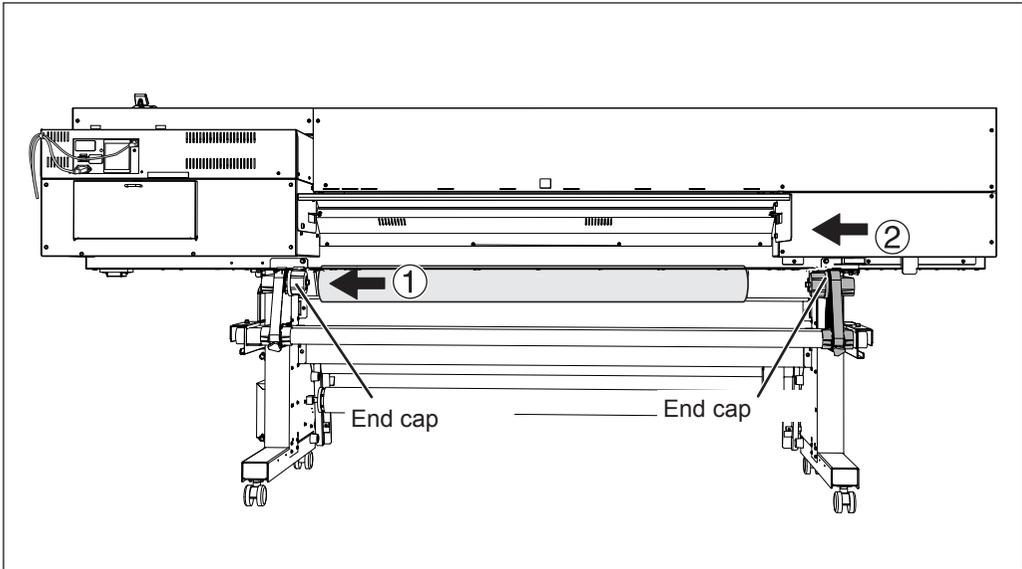
2 Detach the rear cover.



- 3**
- ① Loosen the media holder retaining screws.
 - ② Move the media holders all the way to the left and right.

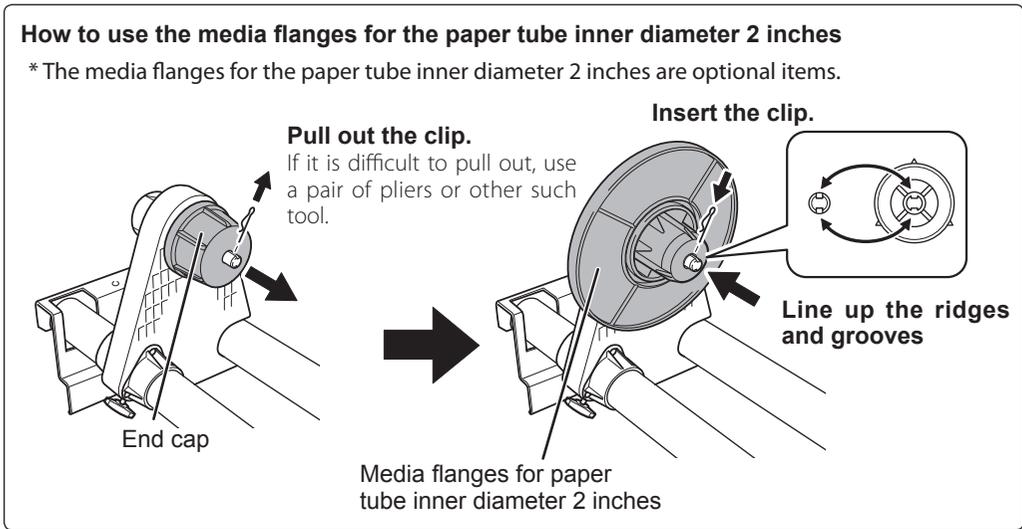


- 4** ① **Fit the paper tube (core) onto the end cap of the media holder [Left].**
Do not secure the media holder now.
- ② **Move the media holder [Right] and fit the media cap onto the paper tube core of the media.**
Fit it securely to prevent the media from easy loose.



IMPORTANT! Install conforming to the procedures.

Load the media while the left media holder is positioned close to the left edge, as shown in the figure. Also, never secure the media holder in place before loading the media. Loading media without performing these steps in the proper order may make smooth media feed impossible or yield poor printing results.



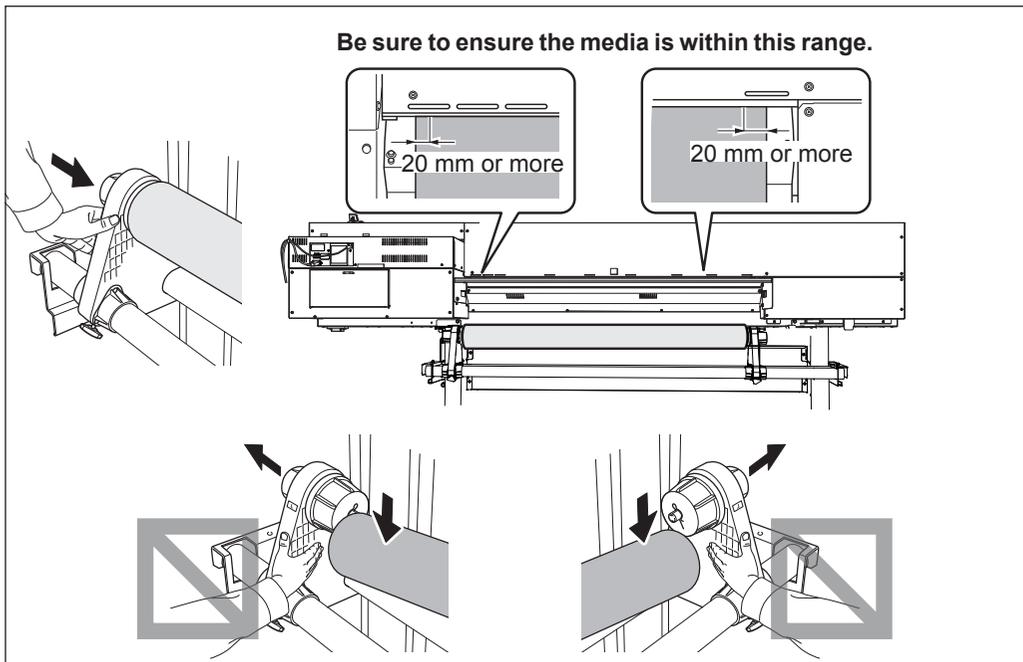
- 5 Hold the outer side of the media holder [Left] and position the left and right side edges of the media to match the grit patterns.

When deciding the position, hold the both sides of media holders from the outer sides and move it. Do not hold the media directly to move.

CAUTION

Never attempt this operation while holding any location other than the one specified.

The media may fall from the media holder, resulting in injury.

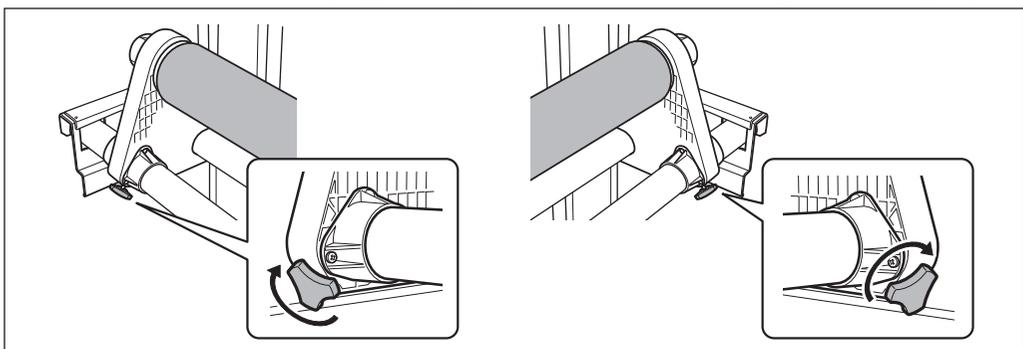


IMPORTANT!

Decide the left and right side positions of the media finally at this step.

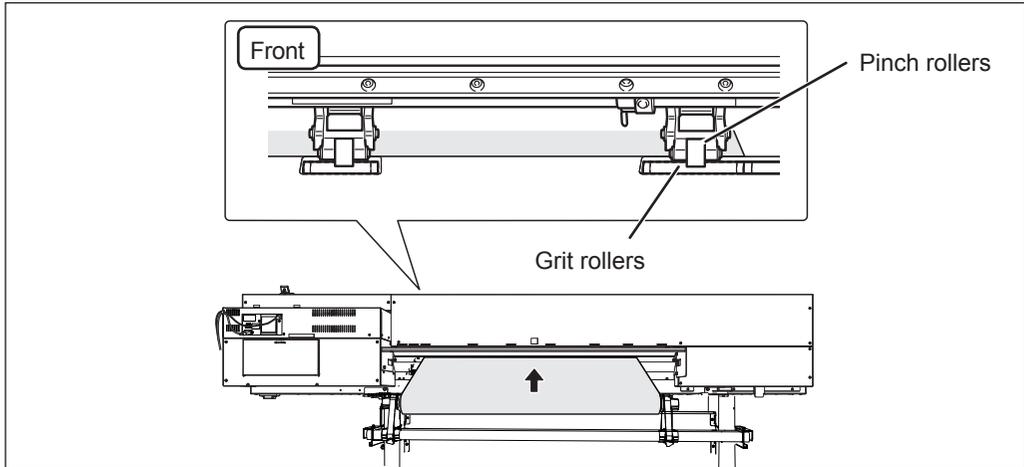
After this procedure is completed, if the left and right side positions do not fit the proper position when securing the media with pinch rollers, go back to this step to redo this procedure. Printing quality is affected due to skew media feed, if you hold the media only to readjust the position forcibly.

- 6 Secure the media holder by tightening the media holder retaining screws slightly.

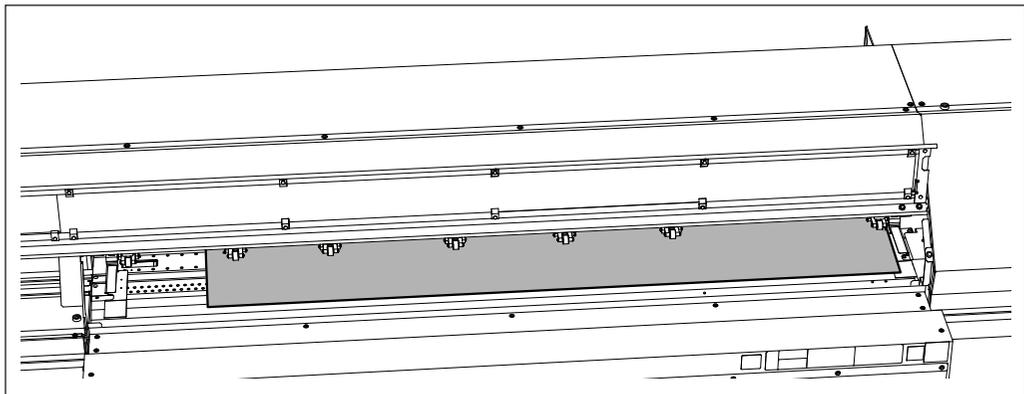


2. Pass the media through the printer and secure the media holders.

- 1 Pass the media through the printer and secure the media holders.

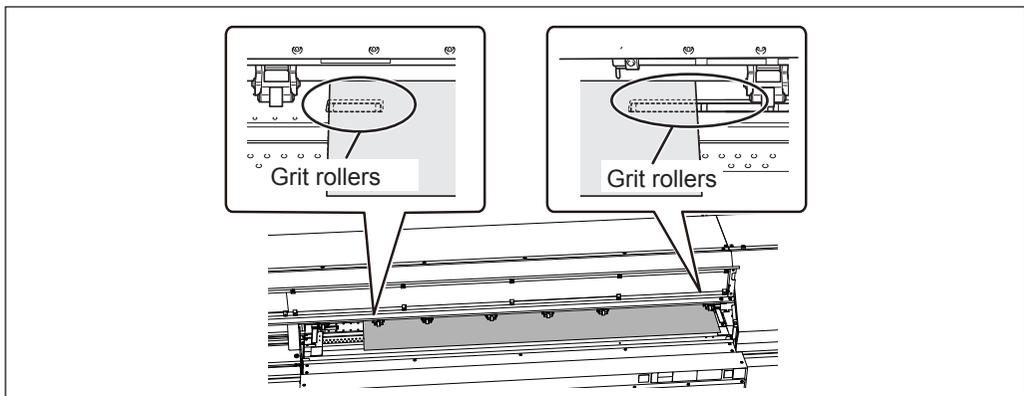


- 2 Pull out the media over the platen.

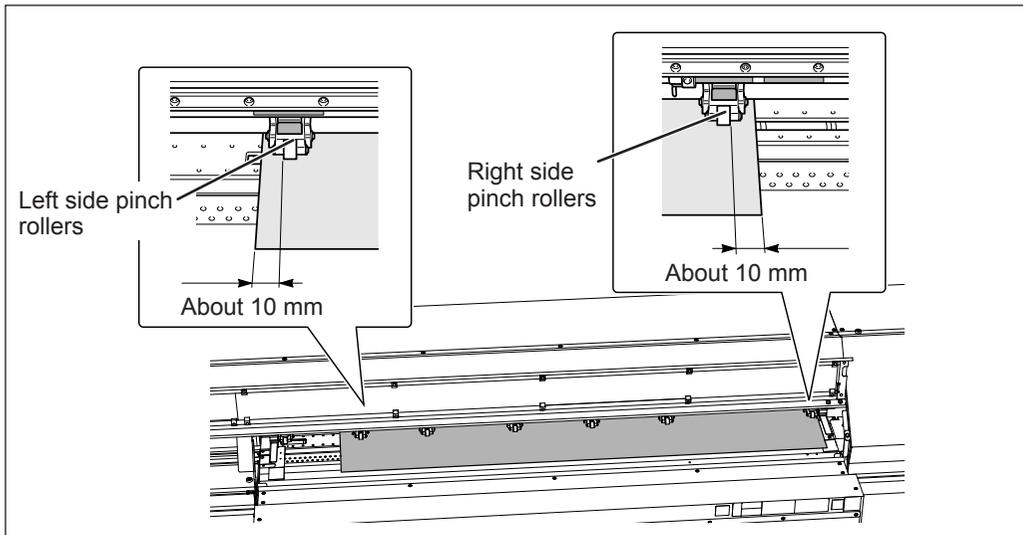


- 3 Check both edges of the media are placed on the grit rollers.

Be sure to place the right edge of the media on the right end grit rollers.



- 4 Place the left and right pinch rollers on both edges of the media.**
Place them on the positions from the media edges by about 10 mm respectively.



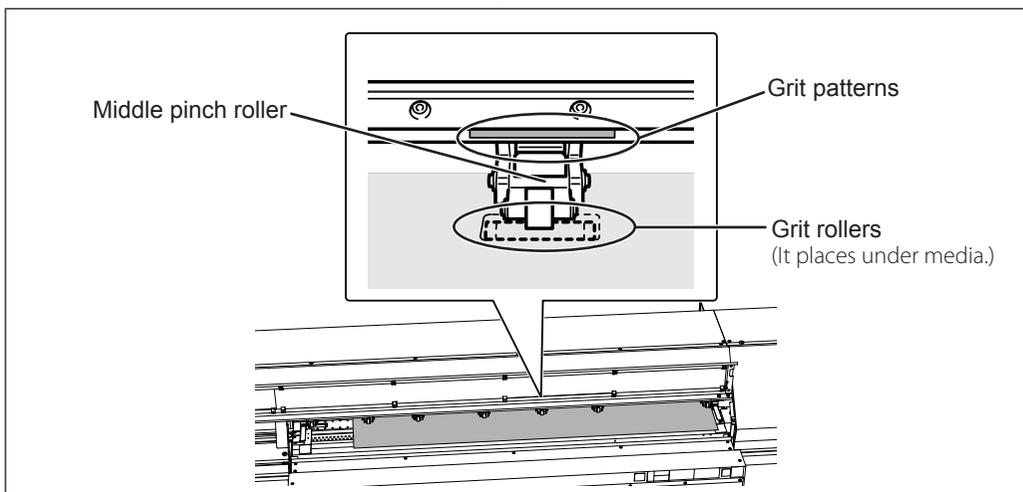
IMPORTANT!

If you want to readjust the media position at this step, go back to the procedure 1 and redo the procedure 1. - 4. Printing quality is affected due to skew media feed, if you hold the media only to readjust the position.

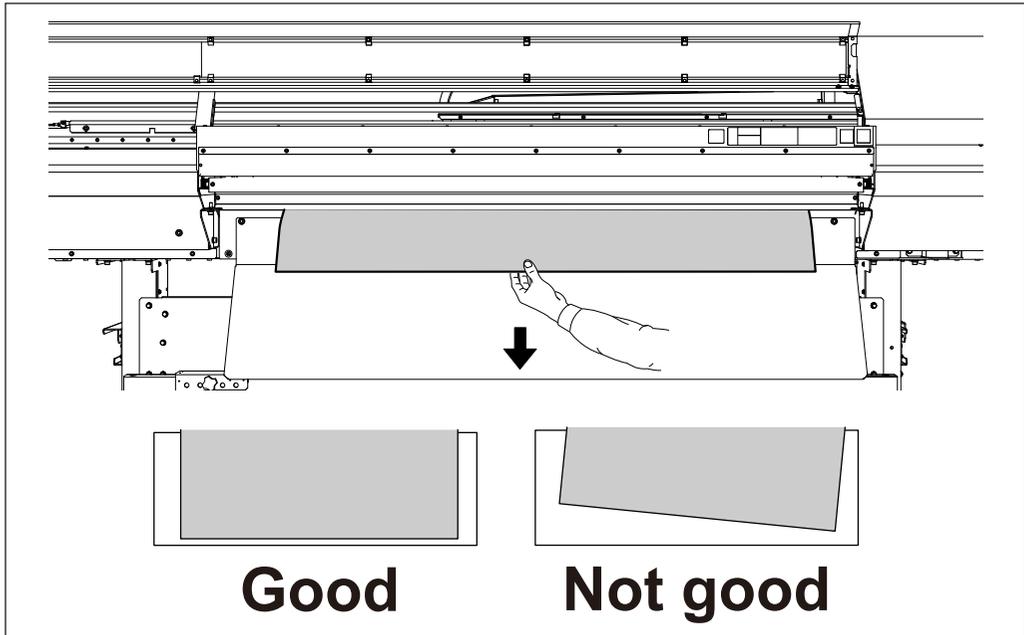
- 5 Place the middle pinch rollers over the grid rollers.**

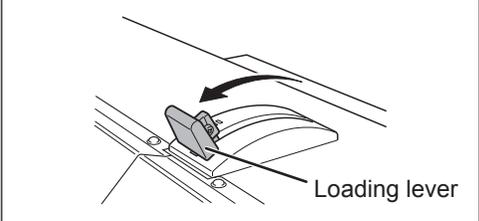
The grit patterns can be found at the place where grit rollers are located.

When positioning the middle pinch rollers, choose locations where they are as equally spaced as possible above the grit roller that lie inside the left and right pinch rollers. The middle pinch rollers cannot be lowered at any position other than above the grit rollers.

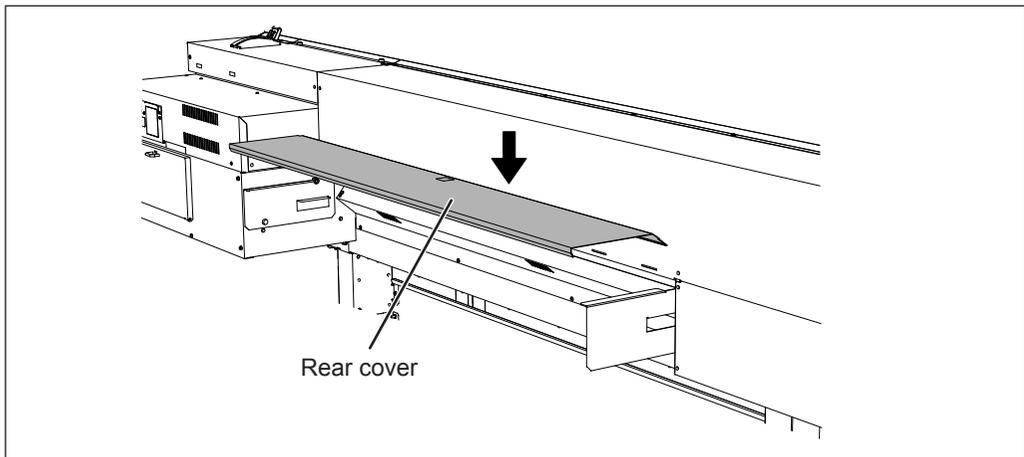


- 6 Hold the media at the center and pull it out, being sure to keep it straight and all areas of the media to be taut.



- 7  Pull back the loading lever. The media is secured in place.

- 8 Attach the rear cover.



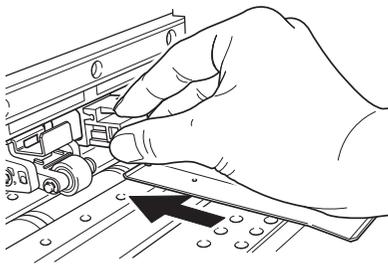
3. Clamp the edges of the media with the media clamp.

Important notice about the media clamp.

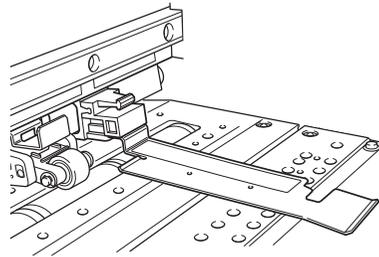
- Insert the media clamps firmly all the way until they engage with an audible click, and make sure they will not come loose. Incorrect mounting may cause the media to catch or snag and make correct printing impossible, or may lead to malfunction or poor printing quality.
- If the thickness of the media is 0.5 millimeters or more, leave the media clamps unattached. Otherwise the print heads may strike the media clamps, resulting in malfunction or other problems.
- When you're performing cutting only, never use the media clamps.

☞ P. 69, "Important Note on Cutting"

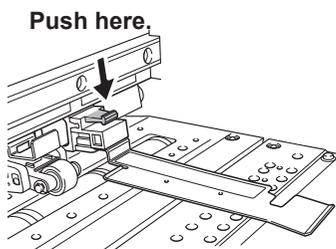
How to set the media clamp.



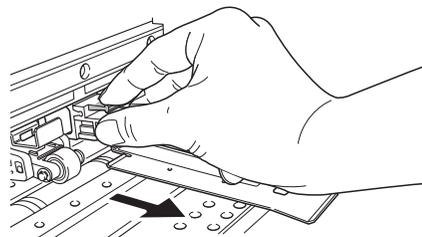
Insert until it clicks into place.



How to remove the media clamp.

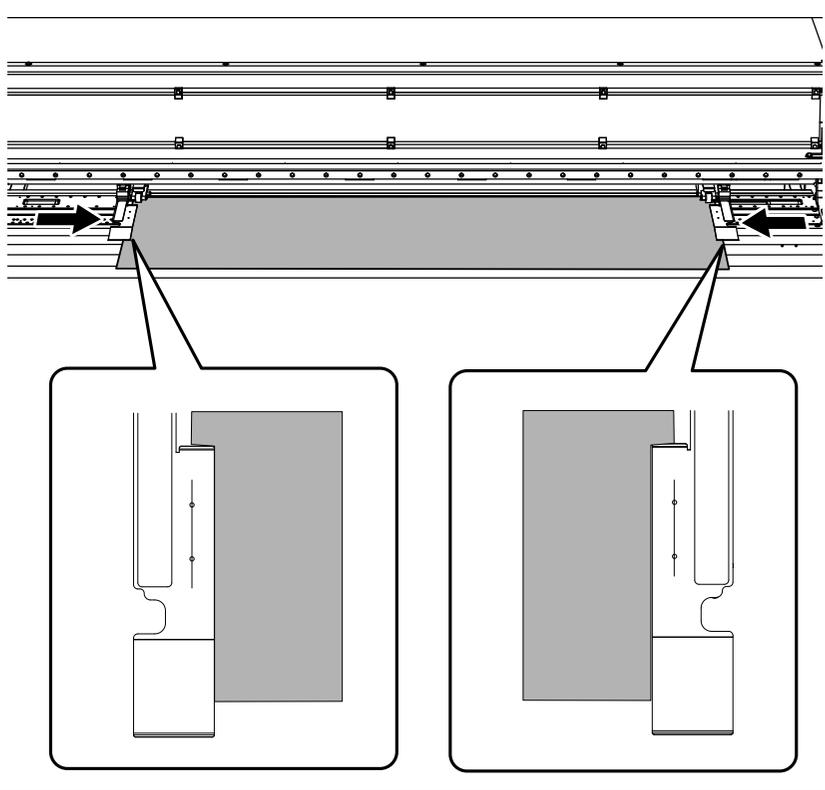


Pull back while holding down the area.

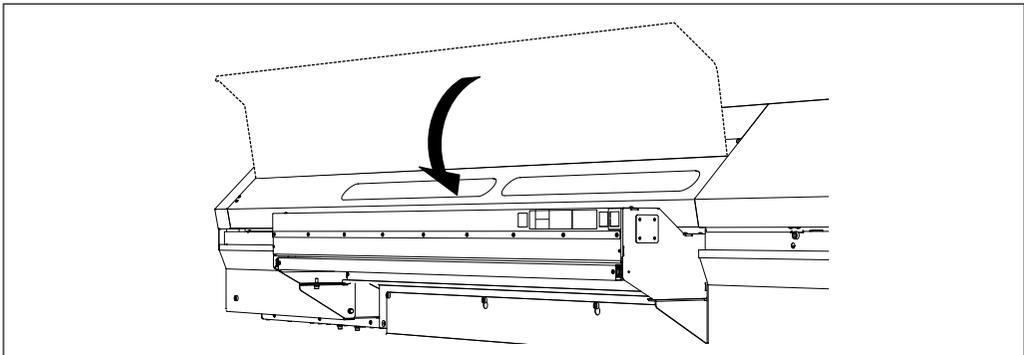


- 1 **① Move the left and right media clamps above the edges of the media.**
② Line up the edges of the media with the centers of the holes of the media clamps.
When you're performing cutting only, never use the media clamps.

☞ P. 69, "Important Note on Cutting"



- 2 **Close the front cover.**



3 **SETUP SHEET**
◀▶ **ROLL**

Press ◀ ▶ to select "ROLL."
Press ENTER .

4 Press **SET UP**.

The print-head carriage moves and detects the width of media. This operation is called initialization. When initialization ends, **SET UP** remains steadily lighted, and the printable width is displayed on the display screen. This completes loading of the media.

IMPORTANT! Remove when not using roll media.

If roll media is allowed to stand unused in a loaded state for an extended period, the media may sag. This can cause poor printing quality and motor errors, so be sure to remove and store such media when not in use.



Loading the Sheet Media

1. Loading the Sheet Media.

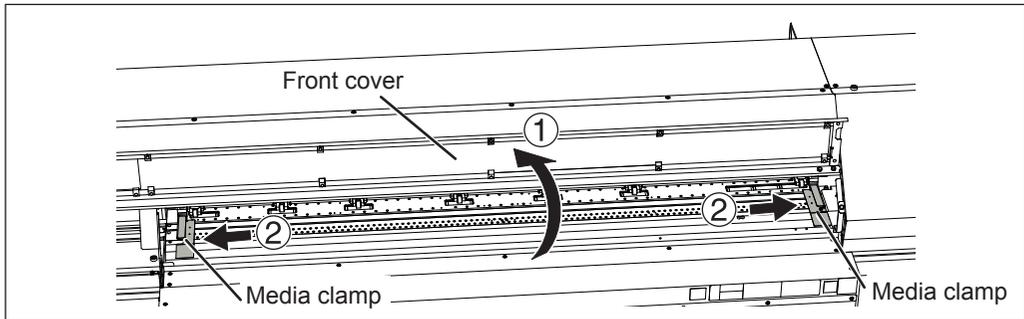
1 Measure the thickness of the sheet media.

If the measured value is 0.5 millimeters or more, increase the height of the print heads.

☞ P. 128, "Adjusting Head Height to Match Media Thickness"

2 ① Open the front cover.

② Move the right and left media clamps to each end.

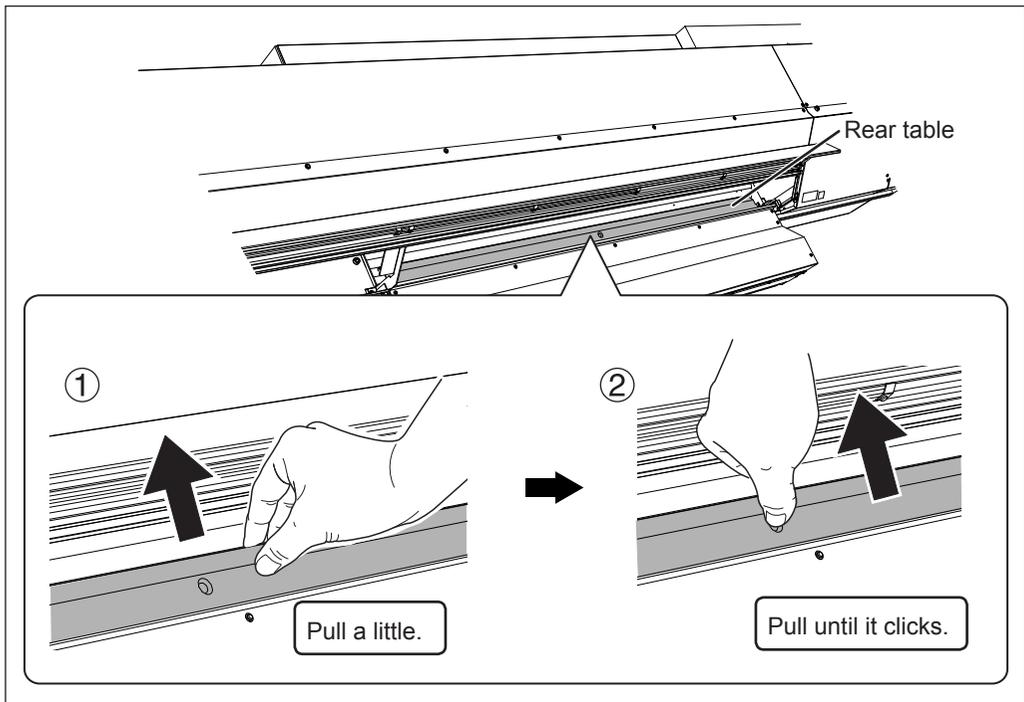


3 Pull out the rear table when using elastic media.

① Hold the center of the rear table and pull it a little.

② Attach your fingers to the concave area, and pull out the rear table straight.

Pull the rear table till it clicks.

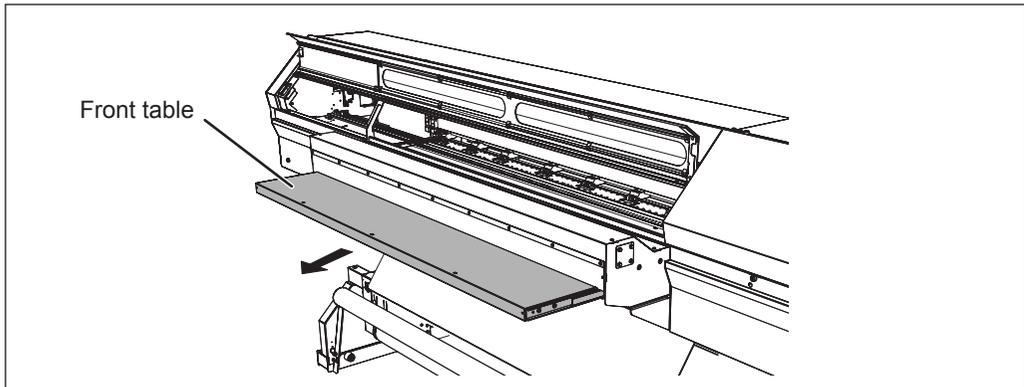


IMPORTANT!

When using soft media, be sure to put the rear table back in place.

In using soft media such as the roll media, put the rear table back in place. Otherwise it causes unstable media feed and may result in malfunctions or troubles.

4 Pull out the front table when using elastic media.



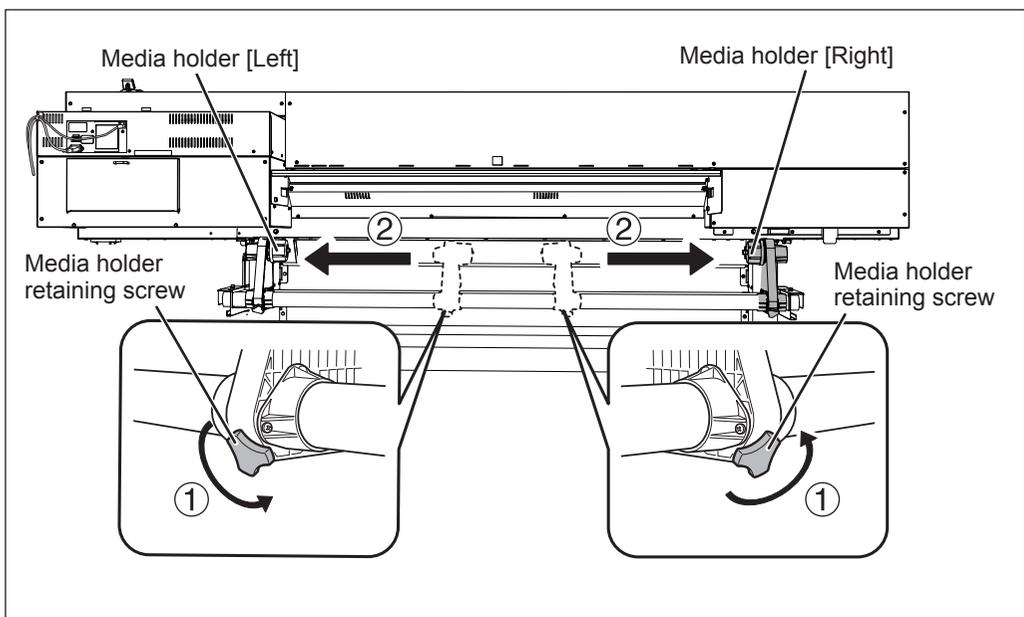
CAUTION

Never lean over or place anything on the front table.

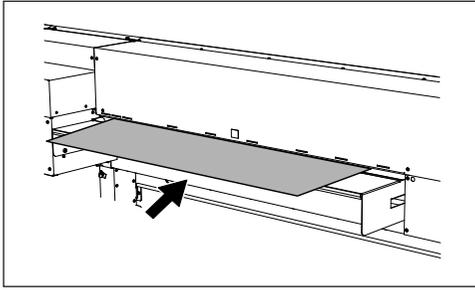
If the front table is subjected to a load, it may get damaged.

5 ① **Loosen the media holder retaining screws.**
 ② **Move the media holders all the way to the left and right.**

Move them to a location where they don't disturb the media when the media is hung down from the rear of the machine. If they disturb the media, remove them with the shaft. For information on how to remove, refer to "Setup Guide."



6



Slide the sheet media in this machine from the top of the rear cover.

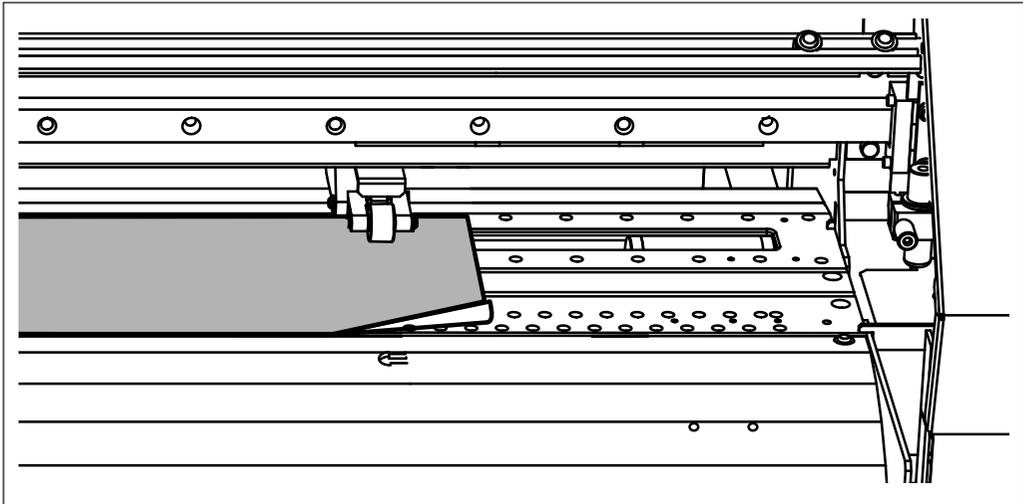
7

Pass the media through the printer and secure the media holders.

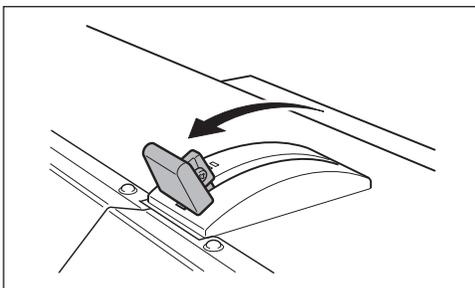
☞ Procedure 2. 1 to 5 of P. 36, "Loading Roll Media"

8

Align the end of the sheet media with the location shown in the figure.



9



Pull back the loading lever.
The sheet media is secured in place.

2. Make sure that media feed is stable.

1 Press and hold .

Hold down the key until the end of the sheet media passes through the media outlet and its output end location comes above the platen.

IMPORTANT!

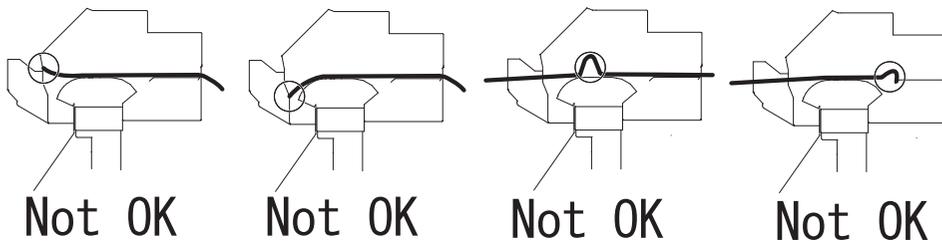
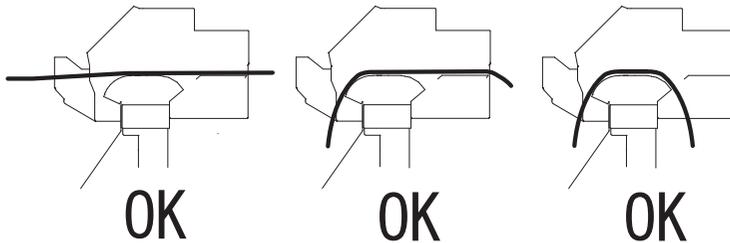
If any of the situations described below takes place, problems such as the print heads striking the sheet media may occur, resulting in malfunction or the like. Reload the sheet media. If the problem persists, the sheet media cannot be used.

- The sheet media does not pass through the media discharge port.
- The sheet media wrinkles or comes loose from the platen.
- The sheet media makes contact with the rear cover and gets wrinkled or floated.

☞ P. 34, "Usable Media"

☞ P. 173, "Media Wrinkles or Shrinks"

☞ P. 174, "Media Feed Is Not Smooth"

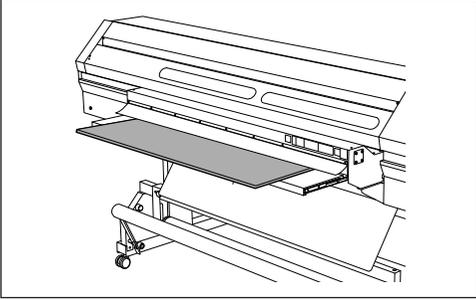


The media does not pass through the media discharge port.

The media does not pass through the media discharge port.

The media wrinkles or comes loose.

The media makes contact with the rear cover and gets wrinkled or floated.



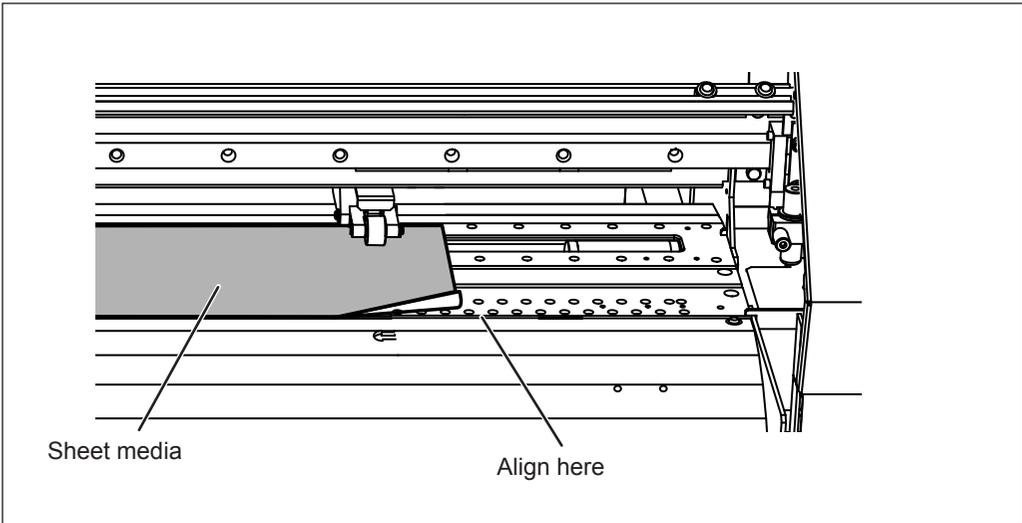
Follow the below instructions when using media passing through the media outlet shown in the left. Otherwise problems such as the print heads striking the sheet media may occur, resulting in malfunction or the like.

- Never use the media clamps.
- Increase the height of the print heads.

☞ P. 128, "Adjusting Head Height to Match Media Thickness"

2 Press and hold .

Hold down until the end of the sheet media reaches the location shown in the figure.



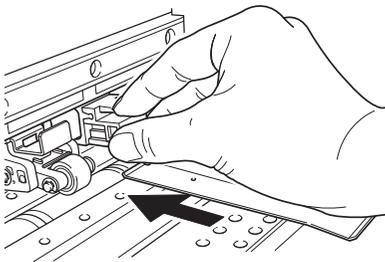
Continued on the next page

3. Clamp the edges of the media with the media clamp.

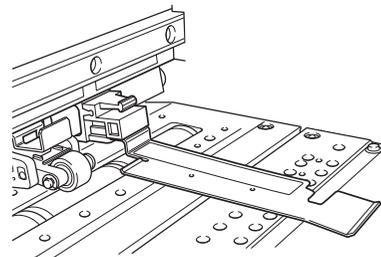
Important notice about the media clamp.

- Insert the media clamps firmly all the way until they engage with an audible click, and make sure they will not come loose. Incorrect mounting may cause the media to catch or snag and make correct printing impossible, or may lead to malfunction or poor printing quality.
 - If the thickness of the sheet media is 0.5 millimeters or more, leave the media clamps unattached. Otherwise the print heads may strike the media clamps, resulting in malfunction or other problems.
 - When you're performing cutting only, never use the media clamps.
- ☞ P. 69, "Important Note on Cutting"

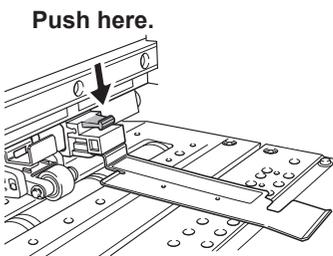
How to set the media clamp.



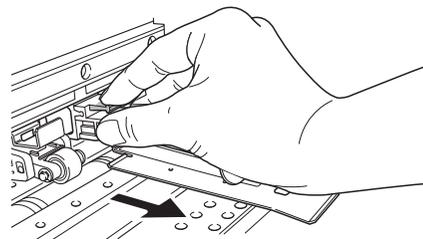
Insert until it clicks into place.



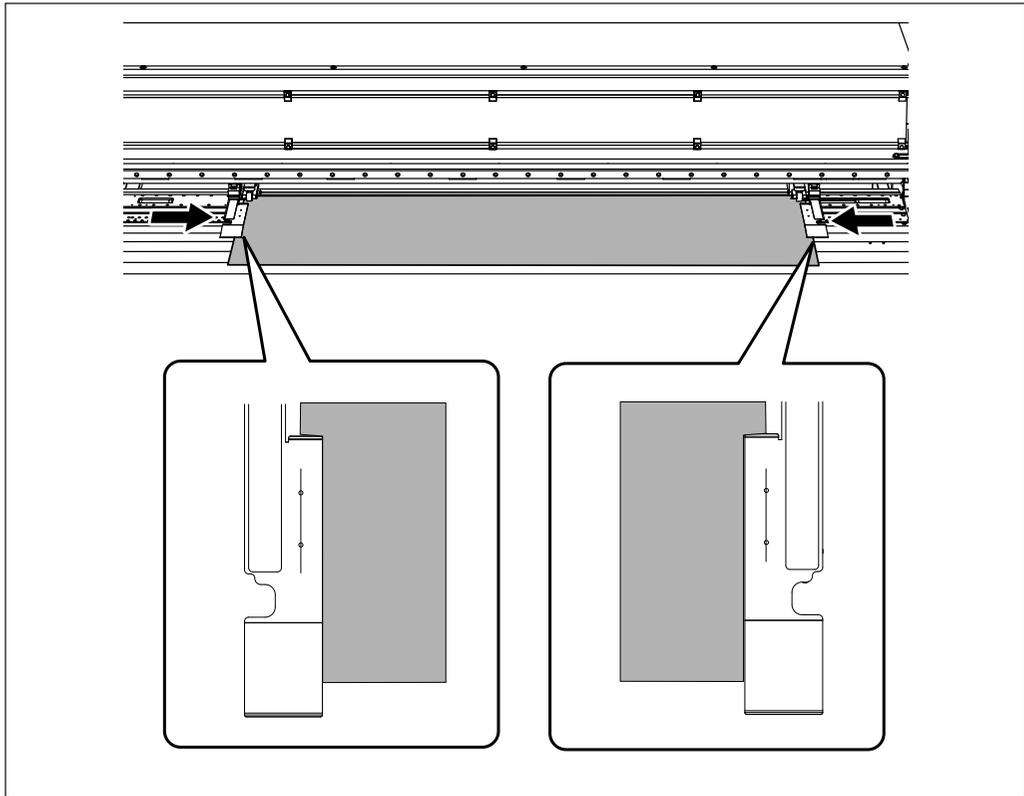
How to remove the media clamp.



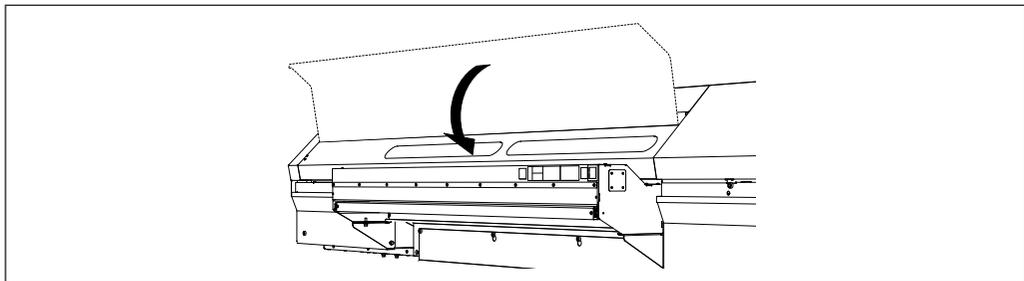
Pull back while holding down the area.



- 1 **Move the left and right media clamps above the edges of the media.**
Line up the edges of the media with the centers of the holes of the media clamps.



- 2 **Close the front cover.**



- 3

SETUP SHEET
◀▶ PIECE

 Use to select "PIECE."
Press .

- 4 **Press .**
The print-head carriage moves and detects the width and length of media. This operation is called initialization. When initialization ends, remains steadily lighted, and the printable width and length is displayed on the display screen. This completes loading of the media.

Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)

Perform the initial adjustment (correction for misalignment in bidirectional printing more precisely) of this machine. This adjustment is necessary in the following cases. If the thickness of the media is over 0.5 mm, raise the head height before performing this adjustment.

☞ P. 128, "Adjusting Head Height to Match Media Thickness"

- **When using this machine for the first time**
- **When changing the media to use**
- **When further correction is required to improve printing, such as when simple correction is performed for misalignment in bidirectional printing.**

☞ P. 125, "Correcting for Misalignment in Bidirectional Printing"

Procedure

1 Press **MENU**.

2 

Press **▼** several times until the screen shown on the left appears.

Press **▶** and then **▲**.

3 

Press **▶**.

4 

Press **ENTER**.

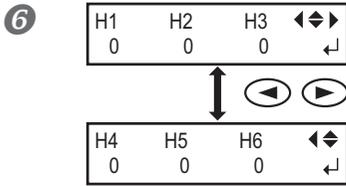
A test pattern is printed.

When printing ends, then press **▼**.

5 

Press **▶**.

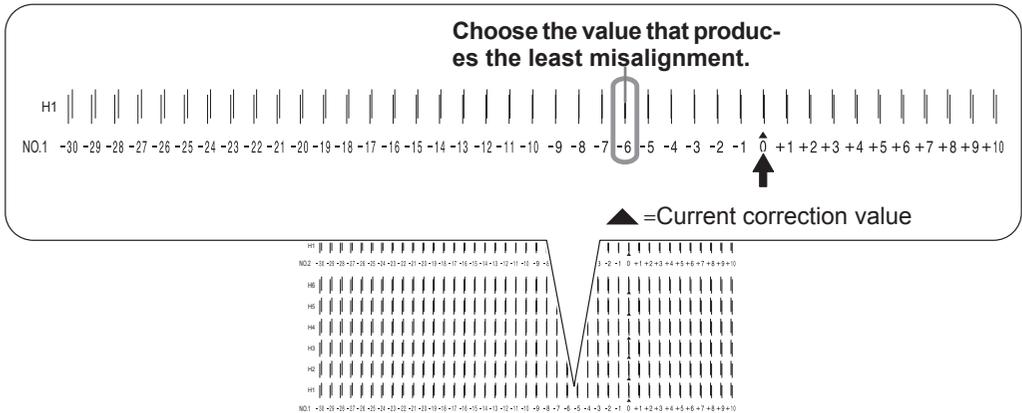
Continued on the next page



Press to select one from H1 to H6.
 Press to decide a correction value for the selected item from H1 to H6.
 Press to finish making the settings for [SETTING NO.1].

To decide a Correction Value

Choose the value that produces the least misalignment of 2 lines. When wavering between two numbers, select half value.



If the Printing-test Results Are Difficult to Interpret

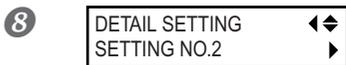
Examine the results from different angles in a well-lighted location. Take advantage of reflected light to enable visual checking.

If you cannot see "H5" or "H6" (such as when using white media with no shine)

You may not be able to see "H5" or "H6" when using certain media, such as white media with no luster. In this case, set "H5" and "H6" to the same value as "H4".



Press .



In the same manner as performed for [SETTING NO.1], repeat steps 6 to 7 to set the correction values for [SETTING NO.2] to [SETTING NO.8].



Press in this order to go back to the original screen.

Setup of Media

About [MEDIA SETTING] menu

To ensure the optimal output according to the media size and type, various setting items are provided in this machine. However, it is hard work to perform these settings one by one referring to this document. So, this machine provides the [MEDIA SETTING] menu that guides these settings in the interactive mode. Using this menu, you can set all of the basic settings only by setting according to the instructions on the display. Since the setting details can be stored as the preset menu, you can promote your operation efficiently saving the setup steps when using the same type of media. Once storing the basic settings as the preset, you can do fine adjustment according to need.

The items set through the [MEDIA SETTING] menu can be also set individually.

Setup of Media ([MEDIA SETTING] menu)

- Only Printing: Perform the procedure **1.** to **5.**, and **9.**
- Print & Cut: Perform all the procedure **1.** to **9.**

Note: If any setting is not needed for each setting item, you can go to the next menu by selecting [NEXT].

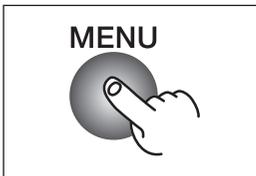
1. Starting the [MEDIA SETTING] menu.

1 Load media.

Check that no sagging is found on the media. If any sagging exists, the followed correction value settings do not work effectively.

☞ P. 36, "Loading Media"

2



Press .

3



When the left figure is displayed, press .

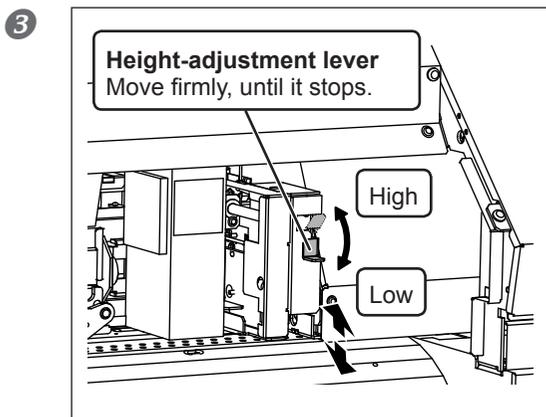
2. Adjusting the Print Head Height.

1 HEAD HGT LOW [CHANGE] NEXT

Press **◀** to select [CHANGE].
Press **ENTER** to enable the setting.

2 HEAD HEIGHT HIGH ▶ LOW

When the left figure is displayed, open the front cover.



Move the height-adjustment lever to adjust the head height.

When moving to the [High] direction, the buzzer sounds twice, and to the [Low] direction, the buzzer sounds once.

POINT!

Normally set to [Low]. However, when the media is over 0.5 mm thick, set to [High].

4 Close the front cover.

For the individual setting method of this setting item and the description, refer to page 128 "Adjusting Head Height to Match Media Thickness."

To cancel the setting

Procedure

1 Press **MENU** during the setting.

2 QUIT SETTING? [YES] NO

Press **◀** to select [YES].
Press **ENTER**.

MENU MEDIA SETTING

The screen returns to the screen shown at the left. By selecting [NO], the screen returns to the screen displayed when you pressed **MENU**.

3. Perform the position correction of feed direction (Alleviate Horizontal Stripes).

POINT!

Feed direction means the feed direction of the media. Perform the correction adjusting to the media in advance because horizontal stripes are more likely to occur during printing when the movement distance of the media changes subtly depending on the kind or thickness of the media.

1

```

CALIBRATION  ◀▶
[SET]        NEXT  ↵
  
```

Press **◀** to select [SET].

Press **ENTER** to enable the setting.

The test pattern of feed correction is output.

2

```

INPUT
ADJ. VALUES  ↵
  
```

When the left figure is displayed, press **ENTER**.

3

```

CALIBRATION  ◀▶
0.10%       -0.10%  ↵
  
```

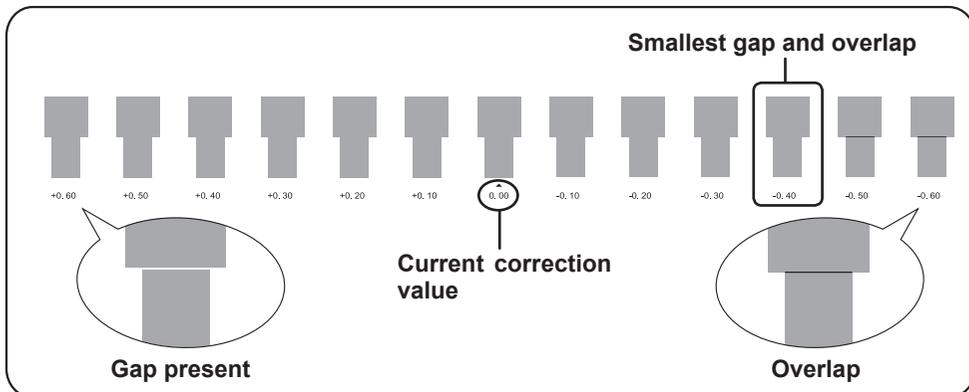
Use **▲** **▼** to set the correction value.

Press **ENTER** to enable the setting.

Current correction Value to be set
value

To decide a Correction Value

Select the value to make the upper/lower rectangular gap and overlap smallest.



4

```

REDO ADJ. ?  ◀▶
YES          [DONE]  ↵
  
```

[To confirm again / adjust again]

Press **◀** to select [YES].

Press **ENTER** to enable the setting.

The test pattern of feed correction is output again. Go back to the procedure 3 and set again.

[To go to the next after correction is completed]

Press **▶** to select [DONE].

Press **ENTER** to enable the setting.

For the individual setting method of this setting item and the description, refer to page 126 "Alleviating Horizontal Bands and the Like (feed correction function)."

4. Performing the correction for misalignment in bidirectional printing.

POINT!

This machine prints by the bidirectional mode (in which the heads perform printing during both their outbound pass and return pass). This printing method is called "Bidirectional Printing." This method offers the advantage of being able to shorten output times, but subtle misalignment occurs during the outbound and return passes. The procedure to correct this and eliminate misalignment is "Bidirectional Correction."

1

ADJUST BI-DIR	◀▶
[SET] NEXT	↵

Press **◀** to select [SET].
Press **↵** to enable the setting.

The test pattern of bidirectional correction is output.

2

INPUT	↵
ADJ. VALUES	↵

When the left figure is displayed, press **↵**.

3

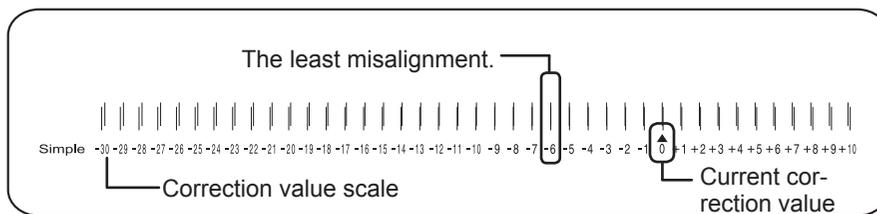
ADJUST BI-DIR	◀▶
0 ▶ -6	↵

Use **▲** **▼** to set the correction value.
Press **↵** to enable the setting.

Current correction value Value to be set value

To decide a Correction Value

Choose the value that produces the least misalignment of 2lines.



4

REDO ADJ. ?	◀▶
YES [DONE]	↵

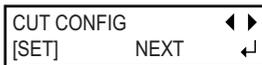
[To confirm again / adjust again]
Press **◀** to select [YES].
Press **↵** to enable the setting.

The test pattern of bidirectional correction is output again. Go back to the procedure 3 and set again.

[To go to the next after correction is completed]
Press **▶** to select [DONE].
Press **↵** to enable the setting.

For the individual setting method of this setting item and the description, refer to page 125 "Correcting for Misalignment in Bidirectional Printing."

5. Deciding to perform the setting for cutting or not.



[Only Printing]

Press to select [NEXT].

Press to enable the setting.

Go to Procedure 9.

[Print & Cut]

Press to select [SET].

Press to enable the setting.

Go to Procedure 6.

6. Setting the blade force.

POINT!

For high-quality cutting, perform a cutting test to check the cutting quality for the media and adjust the blade force.

When Cutting the Printed Surface

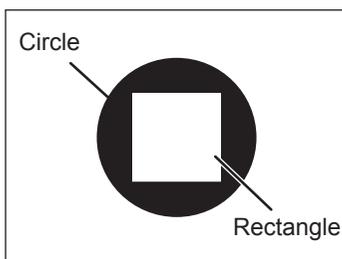
- Hardened ink is thick. When cutting a printed surface, first perform a cutting test on the actual surface that has been printed.
- The end of the cap for the blade holder may scrape or damage the printed surface. If this happens, increase the amount of blade extension.
 - ☞ P. 136, "Accurately Adjusting the Cutting-in Amount"
 - ☞ P. 136, "Adjusting the Conditions for Cutting the Printed Surface/Cutting-in Amount"

1

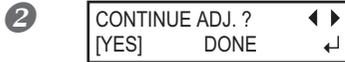


Press to select [SET].

Press to enable the setting.



The test pattern is cut. Circle and rectangle are cut. Peel off the two shapes.



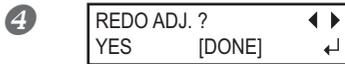
[Two shapes are peeled off separately]
Press **to select [DONE].**
Press **to enable the setting.**
 Go to Procedure 7.

[Two shapes are peeled off together/backing paper is also cut]
Press **to select [YES].**
Press **to enable the setting.**
 Go to Procedure 3.



Current correction value Value to be set

Press **to adjust the blade force.**
 If two shapes are peeled off together ⇒ raise the blade force.
 If backing paper is cut too ⇒ reduce the blade force.
Press **to enable the setting.**
 Cut the test pattern again. Check the result.



[Two shapes are peeled off separately]
Press **to select [DONE].**
Press **to enable the setting.**
 Go to Procedure 7.

[Two shapes are peeled off together]
Press **to select [YES].**
Press **to enable the setting.**
 Cut the test pattern again. Go back to the procedure 3 and set again.

For the individual setting method of this setting item and the description, refer to page 134 "Fine-tuning the Cutting Conditions."

7. Correcting Misalignment for Printing and Cutting.

POINT!

Subtle misalignment between the printing and cutting positions may occur due to the thickness of the media or the head height. We recommend making correction to match the media you're using.

1

```
PRINT-CUT ADJ.  ◀▶
[SET]           NEXT  ⏎
```

Press **◀** to select [SET].

Press **ENTER** to enable the setting.

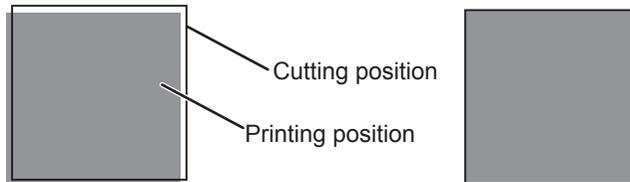
The test pattern (P&C1) is printed and cut. The test pattern is printed at three locations on the media: at the two edges and in the center.

2

Check the test pattern condition.

To check the test pattern (P&C1)

Check to make sure that the printing position and the cutting position are aligned.



Cutting position and printing position are misaligned.

Cutting position and printing position are aligned.

3

```
CONTINUE ADJ. ?  ◀▶
[YES]           DONE  ⏎
```

[Cutting position and printing position are aligned]

Press **▶** to select [DONE].

Press **ENTER** to enable the setting.

Go to Procedure 8.

[Cutting position and printing position are not aligned]

Press **◀** to select [YES].

Press **ENTER** to enable the setting.

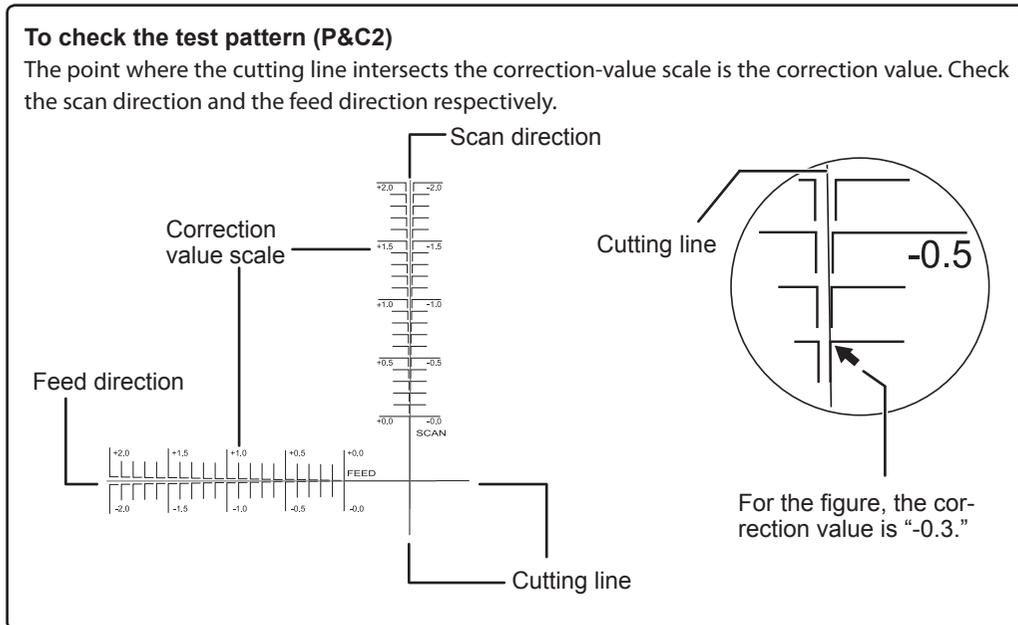
The test pattern (P&C2) for setting the correction values is printed and cut. Go to Procedure 4.

4

```
INPUT
ADJ. VALUES  ⏎
```

When the left figure is displayed, press **ENTER**.

5 Check the correction values from the test pattern condition.



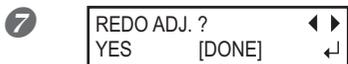
Current correction value Value to be set value

Use to set the correction value of feed direction (F).

Use to set the correction value of scan direction (S).

Press to enable the setting.

The test pattern (P&C1) is printed and cut again. Check the condition of test pattern to check that the printing position and the cutting position are aligned.



[Cutting position and printing position are aligned]

Press to select [DONE].

Press to enable the setting.

Go to Procedure 8.

[Cutting position and printing position are not aligned]

Press to select [YES].

Press to enable the setting.

Go back to Procedure 6 and set the correction values again. Repeat Procedure 6 and 7 until the optimal alignment is got.

For the individual setting method of this setting item and the description, refer to page 140 "Correcting Misalignment of the Printing and Cutting positions."

8. Correcting Misalignment for Printing and Cutting Position When Using Crop Marks.

POINT!

When you remove the printed media, and then reload it and perform cutting, use the crop marks. For this case, correction is to be performed because the positioning of printing and cutting may be misaligned even when you're using crop marks depending on the composition of the media.

1

```
CROP-CUT ADJ.  ◀▶
[SET]         NEXT  ↵
```

[To perform consecutive printing and cutting]

Press **▶** to select [NEXT].

Go to Procedure 9.

[To perform printing and cutting separately]

Press **◀** to select [SET].

Press **ENTER** to enable the setting.

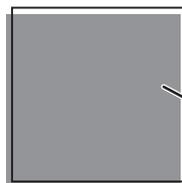
The test pattern (C&C1) is printed and cut. Go to Procedure 2.

2

Check the test pattern condition.

To check the test pattern (C&C1)

Check to make sure that the printing position and the cutting position are aligned.



Cutting position and printing position are not aligned



Cutting position and printing position are aligned

3

```
CONTINUE ADJ. ?  ◀▶
[YES]           DONE  ↵
```

[Cutting position and printing position are aligned]

Press **▶** to select [DONE].

Press **ENTER** to enable the setting.

Go to Procedure 9.

[Cutting position and printing position are not aligned]

Press **◀** to select [YES].

Press **ENTER** to enable the setting.

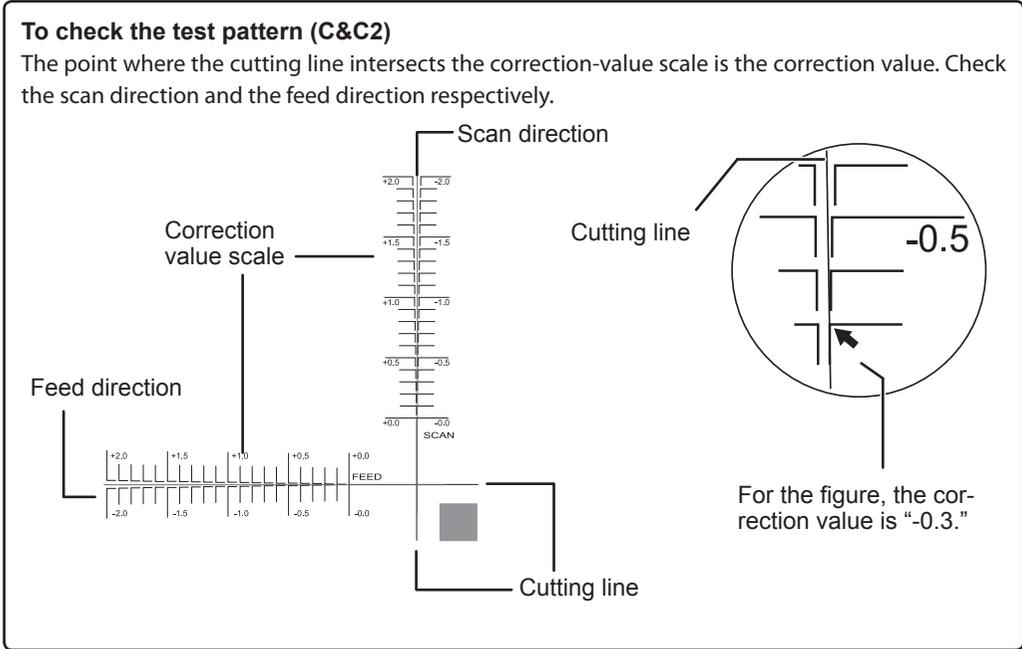
The test pattern (C&C2) for setting the correction values is printed and cut.

4

```
INPUT
ADJ. VALUES  ↵
```

When the left figure is displayed, press **ENTER**.

5 Check the correction values from the test pattern condition.



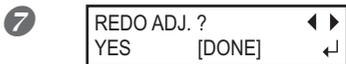
Current correction value Value to be set

Use **▲** **▼** to set the correction value of feed direction (F).

Use **◀** **▶** to set the correction value of scan direction (S).

Press **ENTER** to enable the setting.

The test pattern (C&C1) is printed and cut again. Check the condition of test pattern to check that the printing position and the cutting position are aligned.



[Cutting position and printing position are aligned]

Press **▶** to select [DONE].

Press **ENTER** to enable the setting.

Go to Procedure 9.

[Cutting position and printing position are not aligned]

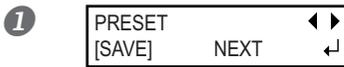
Press **◀** to select [YES].

Press **ENTER** to enable the setting.

Go back to Procedure 6 and set the correction values again. And repeat Procedure 6 and 7 until the optimal alignment is got.

For the individual setting method of this setting item and the description, refer to page 149 "Correcting Misalignment for Printing and Cutting When Using Crop Marks."

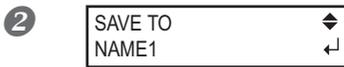
9. Saving the Setting as Preset.



Press to select [SAVE].

Press to enable the setting.

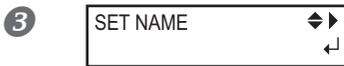
If you select [NEXT], the performed settings are retained. However, those settings are not saved as presets.



Use to select the destination to save.

You can select one of NAME1 to 8.

Press to enable the setting.



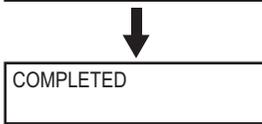
Use to select characters.

Use to move the next character.

Select the following characters in the same way.

You can enter up to 15 characters.

Press to enable the setting.



For the individual setting method of this setting item and the description, refer to page 122 "Fully Utilizing Preset Function."

This completes the operation of the [MEDIA SETTING] menu.

Outputting

Setting the Output-start Location

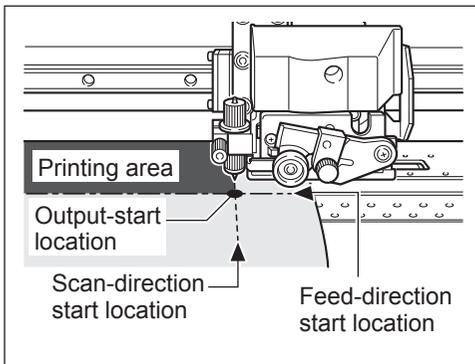
You can set the output-start location at any location you prefer. (You can output if you do not set this.) Note, however, that this setting must be made for each individual page because the setting returns to the default position when output is completed for each page.*

* Note, however, that the left and right positions are not restored to their defaults for test patterns.

Procedure

1 Open the front cover.

2

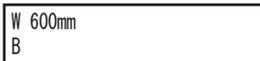


Press     to move the center of the blade with the output-start location.

Only cutting carriage moves.

3 When the location is set, press .

4



 remains steadily lighted and when the screen displays the character "B" together with the output-possible width at the location, setting is completed.

Never use  in the following cases.

➤ When you use the media take-up system

The media may be pulled forcedly and result in errors or malfunctions.

➤ Before or after the feed correction is made

Slackness in the roll media can make it impossible to obtain reliable correction results. Also, slackness in the roll media after feed correction may cause slippage in the media's movement distance during printing, resulting in horizontal stripes.

☞ P. 126, "Alleviating Horizontal Bands and the Like (feed correction function)"

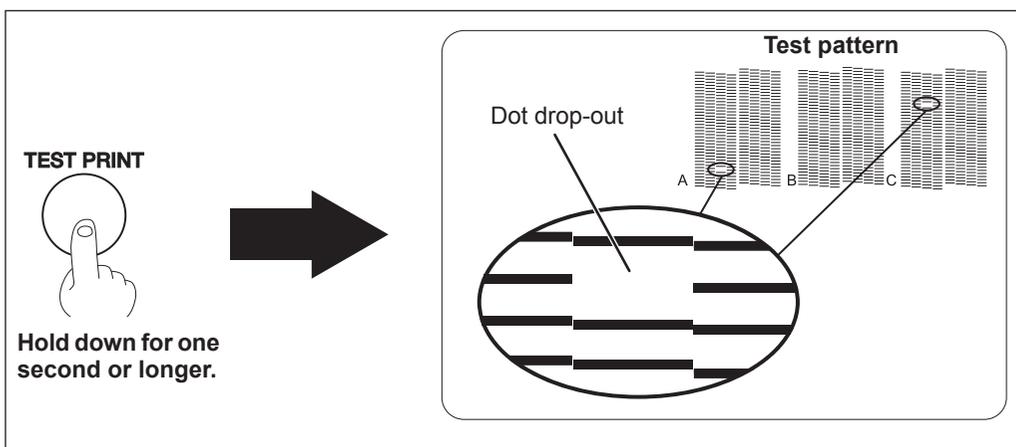
Printing Tests and Normal Cleaning

Before you carry out actual printing, we recommend performing a printing test to ensure no dot drop-out occurs. If dot drop-out occurs, perform cleaning of the print head (Normal Cleaning).

How to Perform a Printing Test

Procedure

- 1 **Setting the Output-start Location.**
 ⇨ P. 66, "Setting the Output-start Location"
- 2 **Holding down TEST PRINT for one second or longer.**
 A test pattern is printed.



How to Perform a Normal cleaning

Procedure

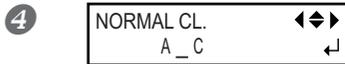
- 1 **Press CLEANING.**
- 2

CLEANING	◀▶
NORMAL CL.	▶

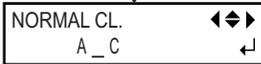
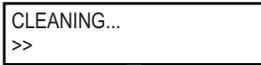
Press ▶.
- 3

NORMAL CL.	◀▶
A B C	↵

Press ◀ ▶ to choose the group of heads that is not to be cleaned.
Press ▲ ▼ to get rid of the group display.
Repeat this procedure to display the groups of only the heads that require cleaning.
 Of groups A through C, cleaning is performed only for the group displayed.



Press **ENTER**.
Normal cleaning starts.



When it finishes, the screen shown in the figure appears again.



Press **MENU** **◀** in this order to go back to the original screen.

- 6 Perform a printing test again to make sure the dot drop-out has been corrected.**
If the problem persists, try performing cleaning a second time. If the printer has been used for a long period, the problem may persist even after two or three-cycle cleaning. Then try cleaning using a different method.

☞ P. 99, "When Normal Cleaning Is Not Effective"

If the Printing-test Results Are Difficult to Interpret.

Examine the results from different angles in a well-lighted location. Take advantage of reflected light to enable visual checking.

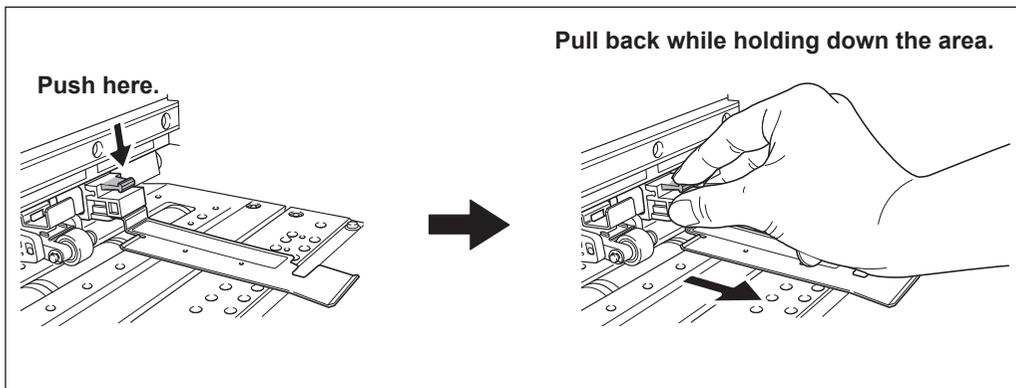
If you want to perform normal cleaning with all the print heads.

Hold down **CLEANING** for one second or longer. The normal cleaning for all the print heads starts.

Important Note on Cutting

When you're performing cutting only, never use the media clamps.

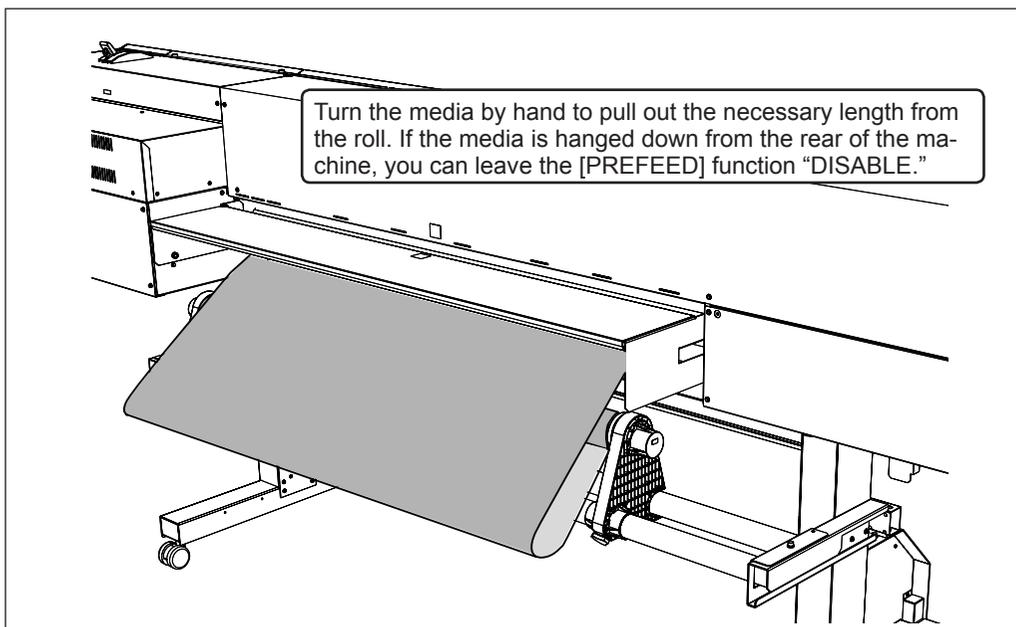
When you're performing cutting only, remove the media clamps or move to the locations where they don't clamp the media.



When you're performing cutting only using the roll media, never allow the media to hang down from the rear of the machine. (or set the [PREFEED] menu to "ENABLE.")

This prevents a motor error or fall of the roll because the media is pulled with excessive force.

For the [PREFEED] menu, refer to P. 133, "Preventing Pulling of the Media with Undue Force When Performing Cutting Only"

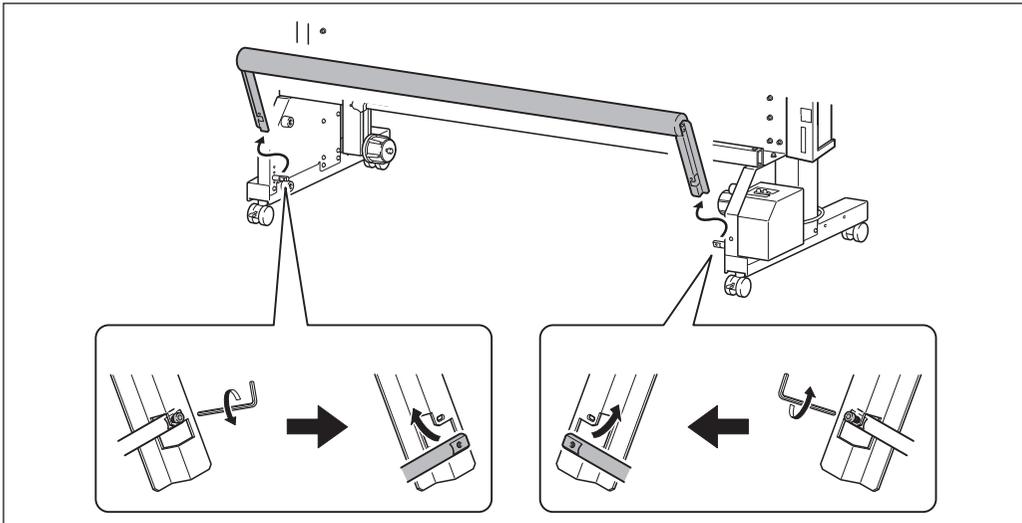
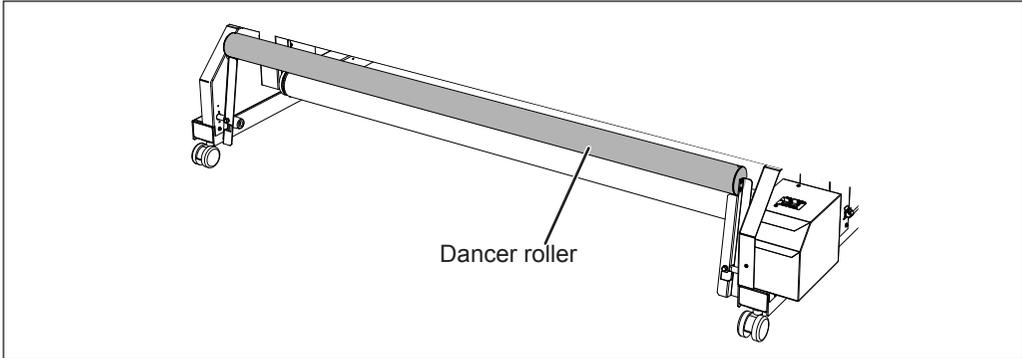


Press back or remove the dancer roller when the media take-up system is not used.

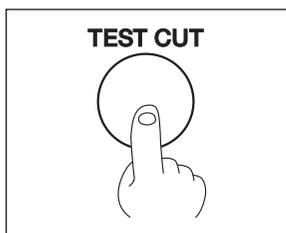
The media pulled forward during the lengthy output may interfere with the dancer roller and affect the output quality.



Basic
Operation



The Cutting Test And Setting The Blade Force



For high-quality cutting, before you perform actual cutting, we recommend carrying out a cutting test to check the cutting quality for the media. Adjust the blade force depending on the cutting quality.

1. Carrying out the cutting test.

- 1 Press to move the cutting carriage to the location where you want to carry out the cutting test.

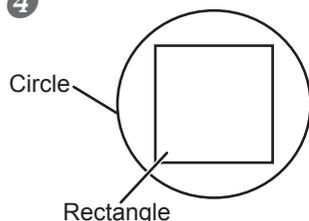
You can freely set the location for the cutting test.

- 2 Close the front cover.

- 3 Press .

The test pattern is cut.

- 4



Peel off the cut shapes to verify the cutting quality.

[Two shapes are peeled off separately]

You do not need to perform the setting because the blade force is appropriate.

[Two shapes are peeled off together/backing paper is also cut]

Go to the next Procedure to set the blade force.

2. Setting the blade force.

- 1 Press .



Press to select the value.

[Two shapes are peeled off together]

Raise the blade force.

[Backing paper is also cut]

Reduce the blade force.



Press .

The setting is finished, and the original screen appears.

At the [CUT CONFIG] menu, you can also make settings for other cutting conditions in addition to the blade force. Refer to the following pages.

☞ P. 134, "Fine-tuning the Cutting Conditions"

POINT! When Cutting the Printed Surface

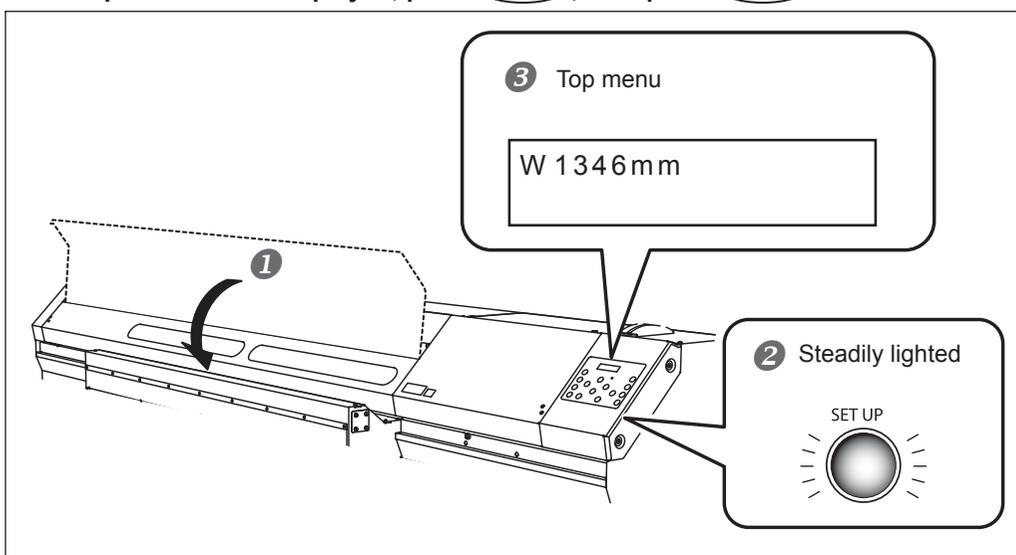
- Hardened ink is thick. When cutting a printed surface, first perform a cutting test on the actual surface that has been printed.
- The end of the cap for the blade holder may scrape or damage the printed surface. If this happens, increase the amount of blade extension.
 - ☞ P. 136, "Accurately Adjusting the Cutting-in Amount"
 - ☞ P. 136, "Adjusting the Conditions for Cutting the Printed Surface/Cutting-in Amount"

Getting Ready to Receive Data from a Computer

When P. 36, "Loading Media", P. 55, "Setup of Media" are completed, get ready to receive the data from a computer.

Procedure

- ① Close the front cover.
- ② Make sure **SET UP** stays steadily lit.
If the light does not come on, press **SET UP**.
- ③ Make sure the top menu is displayed.
If the top menu is not displayed, press **MENU**, then press **◀**.



POINT! Output Is Not Possible in These Situations

- The machine does not run when the front cover is open.
- Never open it when printing is in progress. Doing so interrupts printing.
- Data from the computer is not accepted when **SET UP** is dark.
- Data from the computer is not accepted when you are not at the top menu.

Starting Output

When the operation of page P. 73, "Getting Ready to Receive Data from a Computer" is completed, you can start output. To output, the following procedure is required.

① Creating Output Data

Create the output data using the application software like Adobe Illustrator and like that. For information on how to create the data, refer to the documentation of your application software.

② Sending the Output Data to This Machine Using the Software RIP.

Use the included software RIP "Roland VersaWorks Dual." For information on how to install and use Roland VersaWorks Dual, refer to "Roland VersaWorks Dual Installation Guide" and HELP of Roland VersaWorks Dual. If using the white ink and gloss ink, refer to "Special Color Ink Guide (or Special Color Ink & Primer Guide)"

IMPORTANT! Points that must be observed

- Be sure to mount the media clamps when printing on the media which is less than 0.5 mm thick. Otherwise the edges of the media may warp and catch on the print head.
- During output, never touch the media. Doing so may obstruct media feed or cause the media to rub against the heads, which may result in a paper jam or damage to the heads.
- Keep the loading lever raised when the machine is not in use.

POINT!

If Ink Runs Out

When ink runs out, a warning beep sounds and a slot number of which ink runs out is displayed on the display screen.

☞ P. 91, "How to Replace Ink Cartridges"

Before you perform lengthy printing, check the amount of ink remaining in the ink cartridges.

Before you perform lengthy printing, check the amount of ink remaining in the ink cartridges. When ink runs out and printing is paused, the coloring at the seam may be altered when printing resumes.

☞ P. 90, "Checking for Remaining Ink and Replacing Cartridges"

Pausing and Canceling Output

You can pause and cancel printing before it finishes. We do not recommend resuming printing because horizontal stripes are produced at the place where output stopped.

Procedure

- 1 Press **PAUSE** before output finishes.
This pauses printing operation.
- 2 Press **PAUSE** again to resume printing.
To cancel the output, go the next Procedure without pressing **PAUSE**.
- 3

TO CANCEL, HOLD
DOWN SETUP KEY

When the screen shown in the figure appears, hold down **SET UP for one second or longer.**
This cancels printing operation.
- 4 Stop sending the output data from the computer.

Cutting Off the Media

IMPORTANT!

Some media may be thick or may be composed of plastic or other hard material. For such media, never perform cutoff using **SHEET CUT**. Doing so may cause malfunction or other problems.

Procedure

- 1 Close the front cover.
- 2 Make sure **SET UP** lights up.

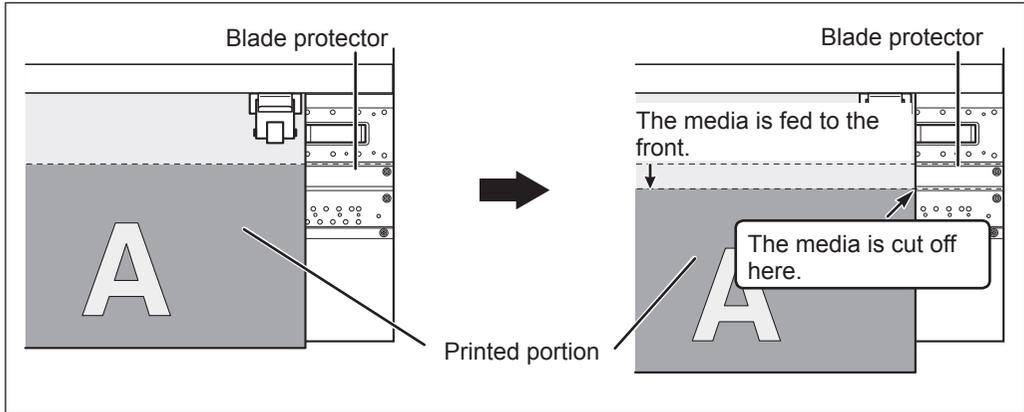
3 Hold down SHEET CUT for one second or longer.

The media is cut off.



When the media clamps are attached, the screen shown in the figure appears. Open the front cover, remove the right and left media clamps, and then press ENTER.

The cutoff location on the media is as shown in the figure below.



You can make the setting in the software RIP for automatic media cutoff after outputting has finished. For information on how to make the setting, refer to the documentation for the software RIP you're using.

IMPORTANT!

Cut-off Operations

- Be sure to detach the media clamps. Performing cutoff with the media clamps remaining attached may cause the operation to be interrupted due to detection of the media clamps.
- If the media clamps are present on the machine when the setting to execute automatic cutoff of the media is made on the software RIP, the media clamps are detected and no cutoff operation is performed
- Before you're performing cutoff, never press ▲ to pull the media back. Unless the end of the media has been pulled out to a location to the front of the platen, cutoff may not be performed smoothly.

Give Attention to Media Composition

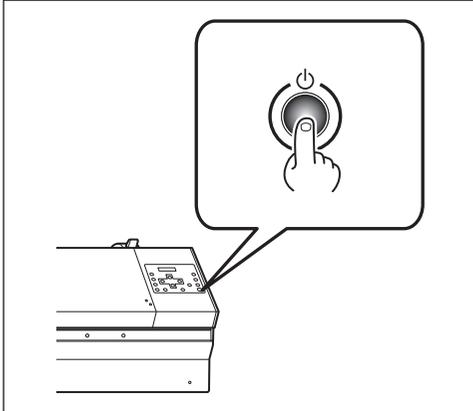
- For some types of media, cutoff is not possible.
- Some types of media may remain on the platen after cutoff. If the media remains on the platen, remove it by hand.

Switch Off

Switch Off

Procedure

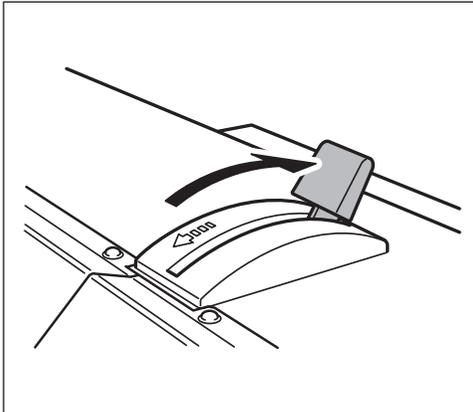
1



Hold down the sub power button for one second or longer.

The sub power is turned off. Perform this process after output is finished.

2



Press back the loading lever.

Even while the sub power is on, keep the loading lever down in the back if this machine is not being used.

IMPORTANT!

Leave the main power switched on at all times.

Never switch off the main power. By switching on the main power, the automatic maintenance function is carried out periodically. If the automatic maintenance is not carried out, it may result in breakdown of this machine such as breakdown of the print head.

Never switch off the main power or unplug the power cord suddenly while operation is in progress.

Switching off the main power or unplugging the power cord suddenly while operation in progress may damage the print head. Be sure to first switch off the sub power. If the main power is accidentally switched off, immediately turn the power back on.

Chapter 3

Using The Media Take-up System

The Media Take-up System	80
Features of the Media Take-up System.....	80
About the Paper Tube.....	80
Use Conditions of the Media Take-up System	81
When Performing Output without Pullback Movement (or When [TU] Is Selected).....	81
When Performing Output Involving Pullback Movement (or When [TU2] Is Selected)	82
Loading the Media onto the Media Take-up System	84
Removing Taken-up Media.....	88

The Media Take-up System

Features of the Media Take-up System

The media take-up system makes it possible to perform output while the media is automatically taken up. This makes possible unattended operation at night and efficient printing of lengthy media.

About the Paper Tube

The included paper tube is a special part exclusively for use with this machine. Using something other than the included item may result in spinning without traction or other problems that impede media take-up. The paper tube is a part that wears out. The replacement cycle varies according to usage conditions, but to ensure good media take-up, monitor the state of the paper tube and replace it when necessary. To purchase a replacement, contact your authorized Roland DG Corp. dealer.



Take-up
System

Use Conditions of the Media Take-up System

When Performing Output without Pullback Movement (or When [TU] Is Selected)

SETUP SHEET
◀ TU

In using the media take-up system to perform output without pullback movement, select [TU] of the [SETUP SHEET] menu.

When [TU] is selected, follow the below instructions.

Never pull the media with excessive force.

If the media is pulled forcedly, it may result in interruptions during output or inaccuracy of output locations. When using the media take-up system, to avoid pulling media with undue force, be sure to observe the following points.

- Set the [PREFEED] setting-menu item to "DISABLE."
- Never operate the MANUAL switch for the take-up unit when the loading lever is pulled back.
- Never press  to pull the media back.
- Be sure to set the base point when the media is moved forward by pressing  after the setting of the media is completed.
- When the computer has an activated setting to pull back the media after output, disable it.
- Set 120 mm or more on the computer for the margin from the output end location to the next output start location (or the space between the pages).
- Do not perform output involving the pullback movement, such as the cutting movement or the pulling-back printing.

When Performing Continuous Printing of Two or More Pages.

When you're performing continuous printing and take-up for two or more pages, give attention to the following points.

- If the setting to execute automatic cutoff of the media can be made on the computer, then turn this setting off. Making the setting on the computer to execute automatic cutoff of the media results in media cutoff after each page is printed. Take up quits as soon as the media is cut off.

When Performing Output Involving Pullback Movement (or When [TU2] Is Selected)

SETUP SHEET
◀▶TU2

In using the media take-up system to perform output involving pullback movement, select [TU2] of the [SETUP SHEET] menu.

When [TU2] is selected, follow the below instructions.

Never pull the media with excessive force.

If the media is pulled forcedly, it may result in interruptions during output or inaccuracy of output locations. When using the media take-up system, to avoid pulling media with undue force, be sure to observe the following points.

- Never operate the MANUAL switch for the take-up unit when the loading lever is pulled back.
- Never press  to pull the media back.
- Be sure to set the base point when the media is moved forward by pressing  after the setting of the media is completed.
- Set 120 mm or more on the computer for the margin from the output end location to the next output start location (or the space between the pages).

When Performing Continuous Printing of Two or More Pages.

When you're performing continuous printing and take-up for two or more pages, give attention to the following points.

- If the setting to execute automatic cutoff of the media can be made on the computer, then turn this setting off. Making the setting on the computer to execute automatic cutoff of the media results in media cutoff after each page is printed. Take up quits as soon as the media is cut off.

About Length Output At One Time

If the length of output at one time is too long, the media may get soiled by touching the work floor. To avoid the media from getting soiled by touching the floor, output the media by about 300 mm. To output by limiting the length, use the function of RIP software.

☞ The setting method when using Roland VersaWorks Dual is continued on next page.

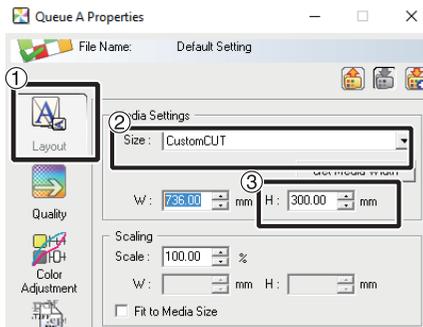
How to Output by Limiting Length (Roland VersaWorks Dual)

This section describes “how to output by limiting the length” using Roland VersaWorks Dual (hereinafter VersaWorks Dual). For information on the detail usage of VersaWorks Dual, refer to the user’s manual of VersaWorks Dual.

Procedure

- 1 **Open "Que Properties" window (or "Job Setting" window).**
Select the input folder to be used.

2



- 1 Click .
- 2 Select "CustomCUT" from [Size] under "Media Settings."
- 3 Set "H."

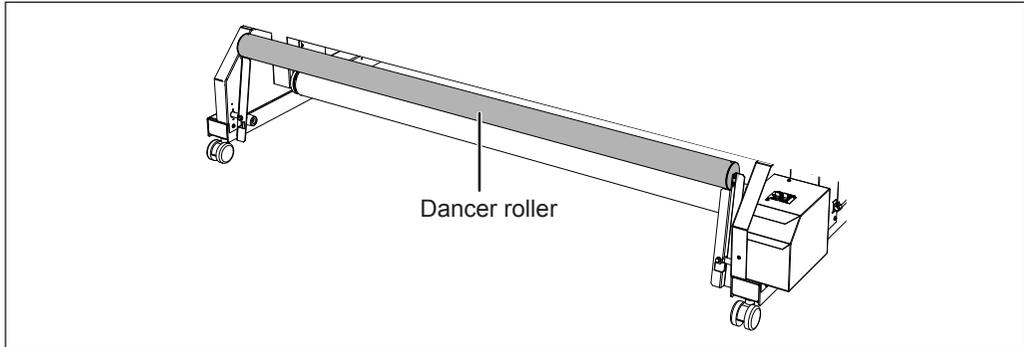
"Que Properties" window

(The setting item and the method in "Job Setting" window are the same as this procedure.)

Loading the Media onto the Media Take-up System

1. Pass the media through the printer.

- 1 Move the dancer roller toward the rear.



- 2 Switch on the printer's sub power.
- 3 When selecting [TU] under the [SETUP SHEET] menu, be sure that the [PREFEED] menu is set at [DISABLE].
☞ P. 133, "Preventing Pulling of the Media with Undue Force When Performing Cutting Only"
- 4 Load the roll media onto the printer.

2. Fasten the media to the paper tube.

When you attach the paper tube, insert it securely onto the end caps on the take-up unit. For information on how to install it, refer to the Setup Guide.

- 1

SETUP SHEET ◀▶TU

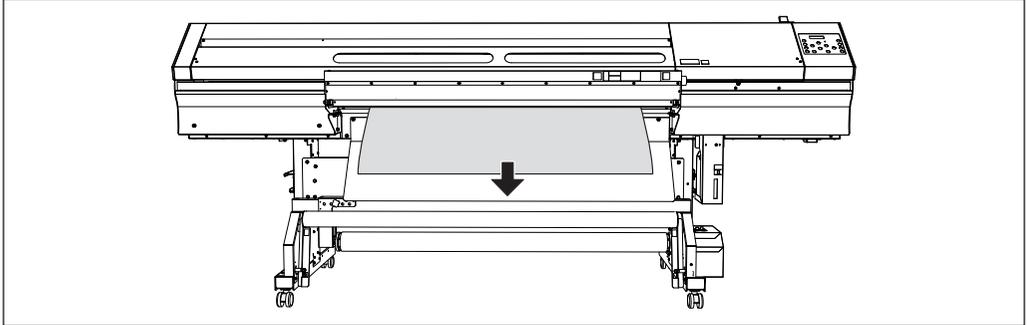
[To perform output without pullback movement]
Press ◀▶ to select "TU."
- | |
|----------------------|
| SETUP SHEET
◀▶TU2 |
|----------------------|

[To perform output involving pullback movement]
Press ◀▶ and select [TU2].
- 2

LOAD SHEET TO TAKE-UP	▼ ↵
--------------------------	--------

Press ◯SET UP .
The screen shown in the figure appears.

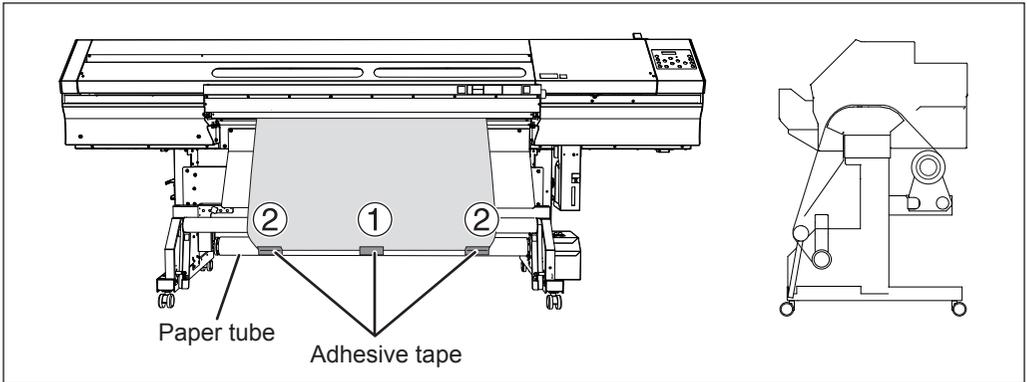
- 3 Use  to pull out the media until its leading edge reaches the paper tube.
 You can adjust the length of the media in 10-millimeter steps by pressing . (To pull out media continuously, hold down the key.)



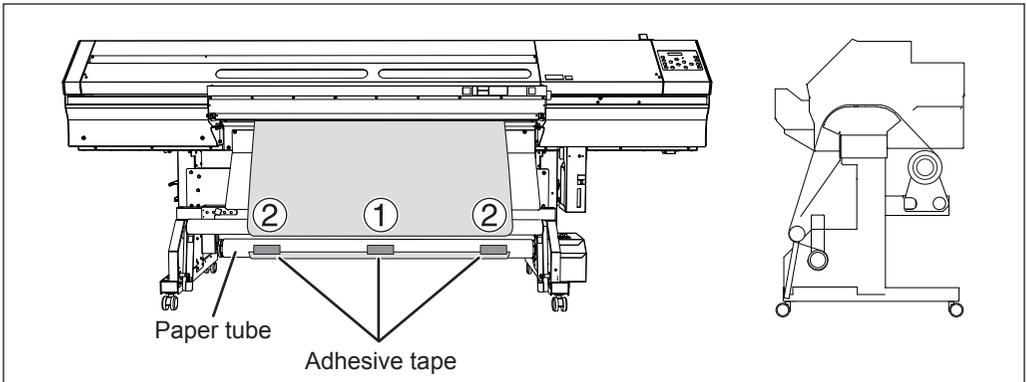
- 4 Using adhesive tape, fasten the center and side edges of the media to the paper tube (fasten a total of three locations).

- ① Secure the center of the media in place while keeping the media stretched taut to keep it free of slack.
- ② While pulling the media from the center outward, fasten the left and right edges.

■ Take-up with outward curl



■ Take-up with inward curl

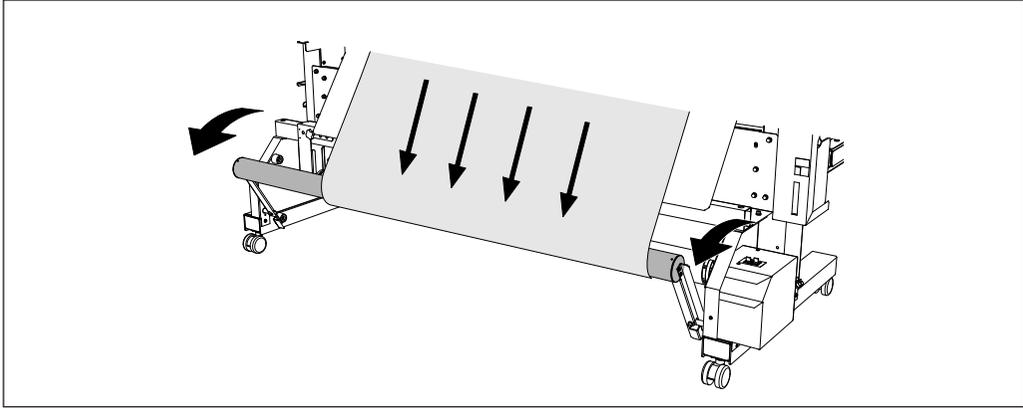


5 TILT DANCER
ROLLER TO FRONT ↵

Press ENTER.

The media is pulled out and the screen shown in the figure appears.

6 Pull the dancer roller back toward you.



7 CHECK
TAKE-UP SETTING ↵

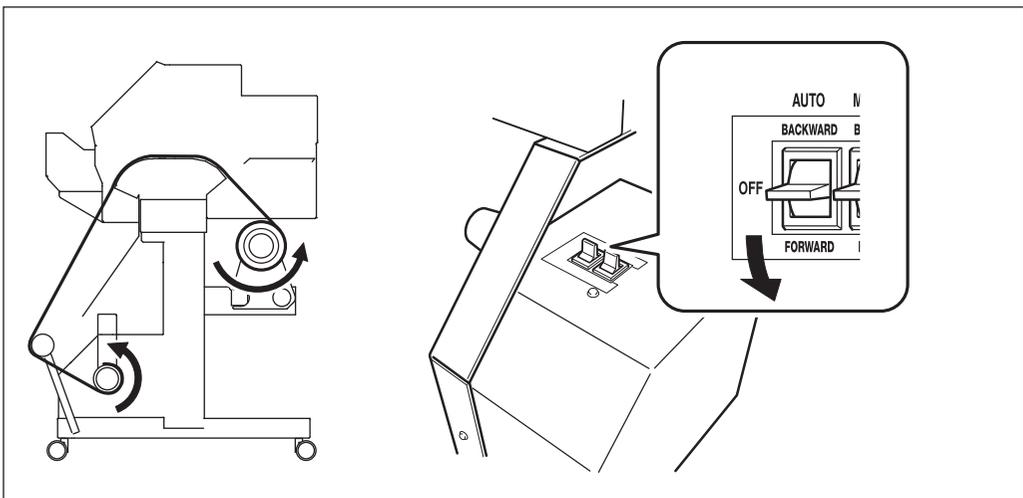
Make sure the media is stretched taut, and press ENTER.

The screen shown in the figure appears.

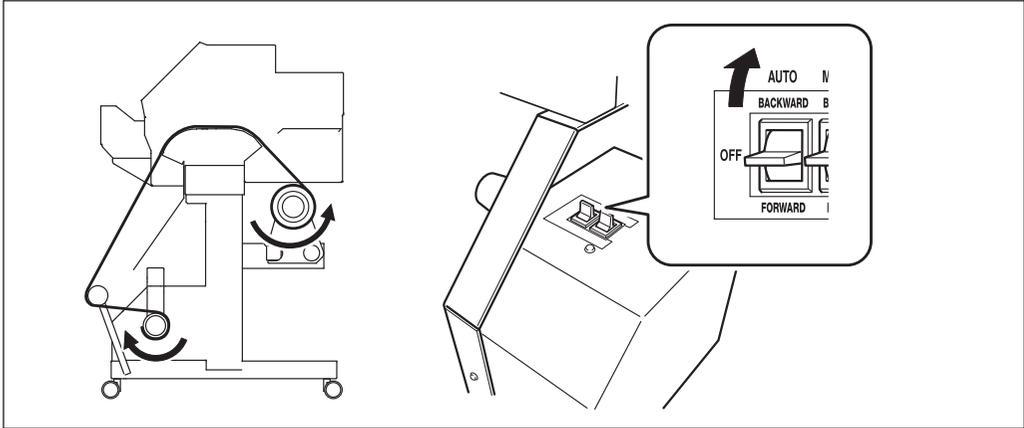
3. Make the setting for the direction of automatic take-up and perform take-up of the media onto the paper tube.

1 Make the setting for the AUTO switch on the take-up unit.

■ Take-up with outward curl



■ Take-up with inward curl



2

W 736mm

Press **ENTER**.

When the screen shown on the left (the top menu) appears, the media-loading process is complete. With [TU2] selected, the media will be fed out until the dancer roller leans down to the front completely.

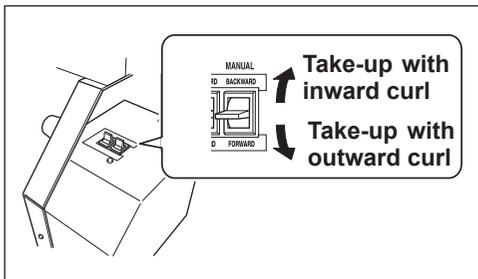
IMPORTANT!

- When you begin take-up, take care to ensure that the end of the media does not become rolled or creased.
- When **▼** is pressed to feed out the media after it is loaded, be sure to press **BASE POINT** to set the base point (the output start location). If output is started without setting the base point, the media is pulled forcibly, and it may result in interruptions during output or inaccuracy of the output locations.

Operation till the media is taken up when [TU2] is selected

The media is not taken up during output. When output is finished, the media is pulled back to a given position, and the taking-up operation starts.

To Take up Media Manually



You can take up media by using the MANUAL switch. However, never operate the MANUAL switch while the loading lever is pulled back. Doing so may cause the media to be pulled with excessive force, actuating the protective feature and resulting in an error.

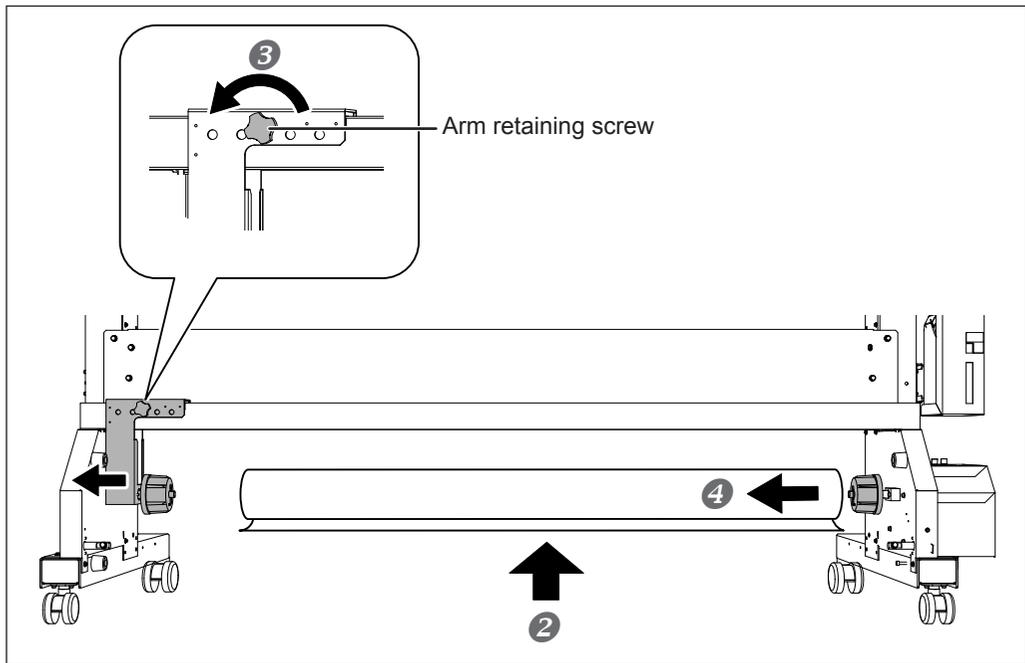
Removing Taken-up Media

⚠ CAUTION

Removal of taken-up roll media from the unit is a task which must be carried out by two or more persons.

If dropped, such items may cause injury.

- 1 **Cut off the media.**
☞ P. 75, "Cutting Off the Media"
- 2 **Support the paper tube to prevent it from falling.**
- 3 **Loosen the arm retaining screw and move the arm.**
- 4 **Detach the paper tube from the end caps.**



Chapter 4

Maintenance:

For always using the printer in the best condition

Checking for Remaining Ink and Replacing Cartridges	90
Checking for Remaining Ink	90
How to Replace Ink Cartridges.....	91
Automatic Maintenance Feature	93
Automatic Maintenance Feature and Notes	93
Maintenance that Should Be Performed Daily	94
Maintenance of Ink Cartridges.....	94
Disposing of Discharged fluid	95
Cleaning	97
About Care and Maintenance of Print Head.....	98
When Normal Cleaning Is Not Effective.....	99
Medium/ Powerful Cleaning.....	99
Maintenance that Should Be Performed More Than Once a Month ..	101
When Manual-Cleaning Becomes Necessary	101
Performing Manual Cleaning.....	102
The Concentration and Dot Drop-Out of the White Ink.....	108
Restoring White Ink Concentration.....	108
When the Dot Drop-Out Cannot be Cleared.....	109
Replacing Consumable Parts	112
Replacing the Wiper	112
Replacing the Blade	115
Replacing the Separating Knife.....	118
When Not in Use for a Prolonged Period.....	120
Keep Performing Maintenance	120
Alarm Feature.....	120
Important Note on Draining Ink.....	120

Checking for Remaining Ink and Replacing Cartridges

Checking for Remaining Ink

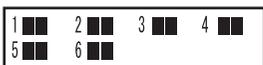
Procedure

1 Press **MENU**.

2 

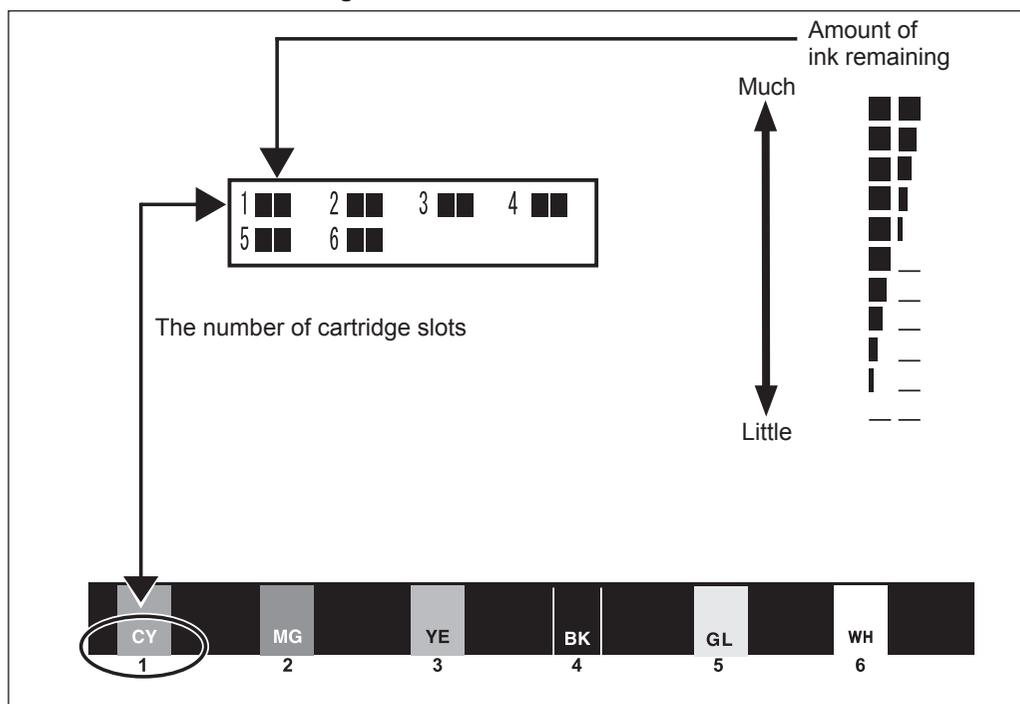
Press **▲** several times until the screen shown on the left appears.

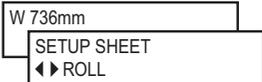
Press **▶**.



 indicates the amount of ink remaining. When there are more , the amount of ink remaining is larger.

* The display shows an approximate guide to the amount of remaining ink. It may differ somewhat from the actual amount remaining.



3 

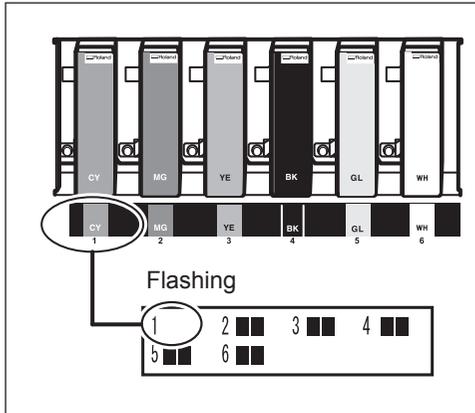
Press **MENU** **◀** in this order to go back to the original screen.

How to Replace Ink Cartridges

When ink runs out, a warning beep sounds and printing pauses (unless the default settings have been changed). Pull out the empty cartridge and insert a new one. Printing resumes.

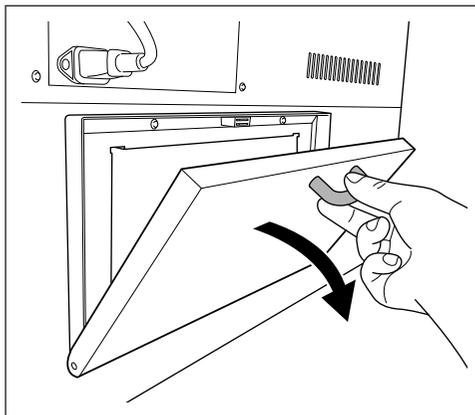
Procedure

1



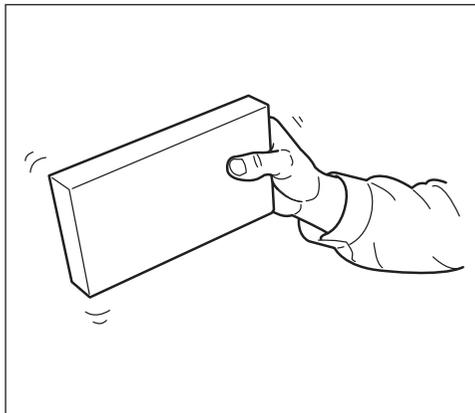
Check the number flashing on the screen.
The ink at the flashing cartridge slot number is running out.

2



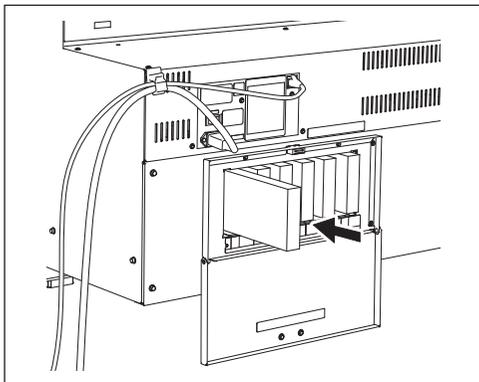
Open the ink cartridge cover.

3



Shake the ink cartridge of the same type and color to replace.

4

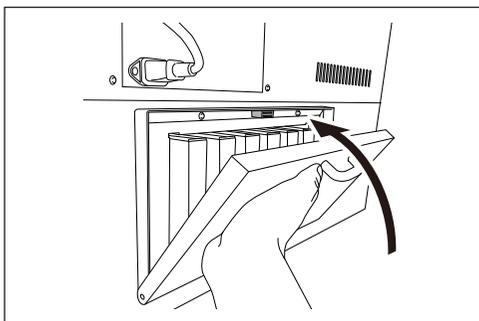


Pull out the empty ink cartridge and immediately insert the new one.

POINT!

- Keep the labeled side face up.
- Insert and remove slowly, one at a time.
- Insert the new cartridge until you hear a warning beep sound.

5



Close the ink cartridge cover.

4

Maintenance

IMPORTANT! Important Notes on Replacing Cartridges

- Make sure that the ink cartridge cover is always closed except when absolutely necessary, such as when you are replacing ink cartridges. The ink inside the cartridges will become hardened, and it may cause the printer to malfunction.
- Be sure to replace with an item of identical type.
- Never use an ink cartridge which has already been used in other machines even if it is of the identical type.
- Never mix items of different types.
- Never allow the machine to stand with an ink cartridge removed. The print head may become clogged.
- Never insert or remove a partially used ink cartridge.
- Never remove an ink cartridge suddenly while the printer is in operation.

⚠ WARNING

Never store ink, cleaning liquid, or discharged fluid in any of the following locations.

- Any location exposed to open flame
- Any location where high temperature may occur
- Near bleach or any other such oxidizing agent or explosive material
- Any location within the reach of children

Fire may be a danger. Accidental ingestion by children may pose a health hazard.

Automatic Maintenance Feature

Automatic Maintenance Feature and Notes

This machine is provided with a feature that automatically performs maintenance on a periodic basis. Because this performs operations that are intended to keep the print heads from drying out, be sure to observe the following matters.

- **Leave the main power on at all times.**
- **Never leave the front cover open for long periods.**
- **After finishing making the settings for the various menu items, go back to the top menu.**

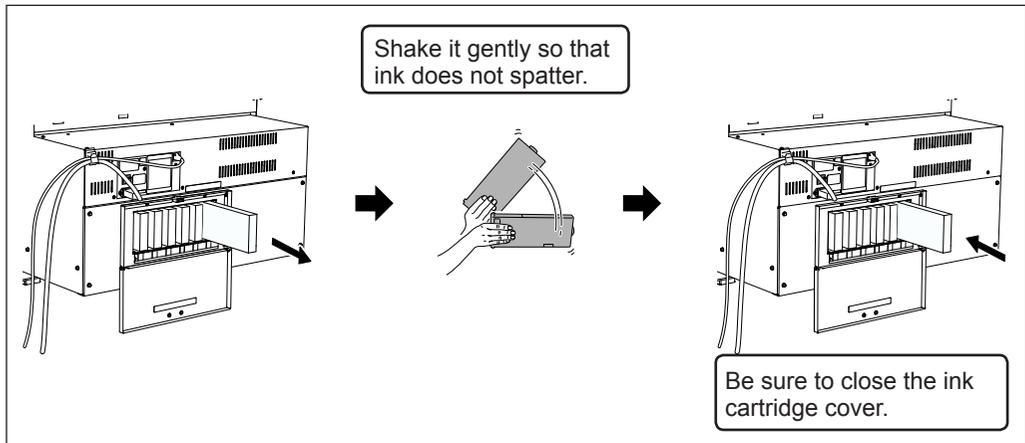
Maintenance that Should Be Performed Daily

Maintenance of Ink Cartridges

Be sure to perform the following tasks. The ink contains ingredients that have the property of becoming deposited. Particularly, the white ink contains ingredients that are highly likely to get deposited, and the settled components may get hardened and cause troubles including malfunctions of the machine if it is left untouched for a certain time.

P. 108, "The Concentration and Dot Drop-Out of the White Ink"

- **Shake the new ink cartridge gently before setting it in.**
- **Remove only the white ink cartridge once, shake it gently, and set it in before starting the operation for the day.**



4

Maintenance

Disposing of Discharged fluid

CHECK
DRAIN BOTTLE

The drain bottle collects discharged fluid. Dispose of collected material before the bottle becomes full. The message shown in the figure appears when a certain amount of discharged fluid has collected in the bottle. Follow the procedure below to discard the discharged fluid.

Procedure

1 CHECK
DRAIN BOTTLE

When the message shown in the figure appears, press **ENTER**.

2 Press **MENU**.

3 MENU
SUB MENU

Press **▼** several times to display the left figure. Press **▶**, and then **▲**.

4 SUB MENU
MAINTENANCE

Press **▶**, and then **▲**.

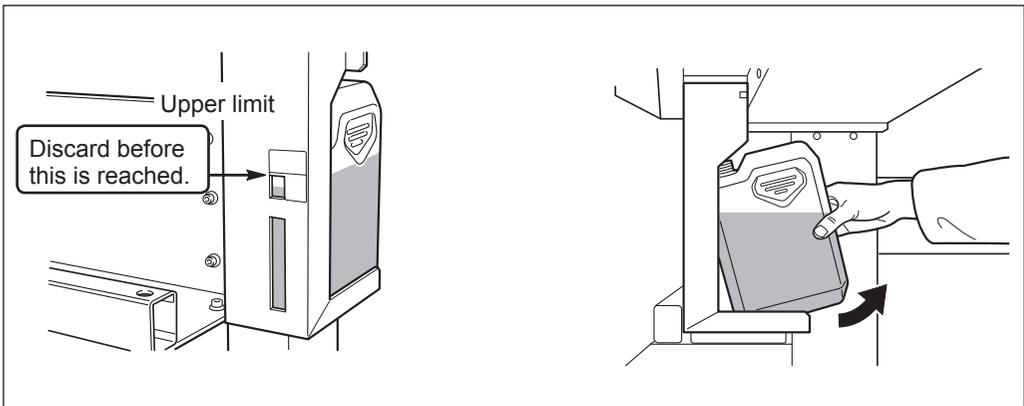
5 MAINTENANCE
DRAIN BOTTLE

Press **ENTER**.

6 EMPTY
DRAIN BOTTLE

When the screen shown on the left appears, detach the bottle, discard the discharged fluid to empty it.

4
Maintenance

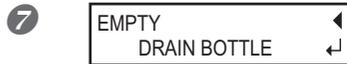


CAUTION

Before you detach the drain bottle, be sure to wait for the screen to display **"EMPTY DRAIN BOTTLE."**

Failing to follow this procedure may cause discharged fluid to flow out of the tube and spill, soiling your hands or the floor.

Continued on the next page



Attach the emptied drain bottle to the machine.

Press  .



Press  .



Press   in this order to go back to the original screen.

⚠️ WARNING

Never place discharged fluid near open flame.
Doing so may cause fire.

⚠️ CAUTION

To store discharged fluid temporarily, place it in the included drain bottle or in a durable sealed container such as a metal can or polyethylene tank, and cap tightly.

Any spillage or vapor leakage may cause fire, odor, or physical distress.

Store discharged fluid in a location not exposed to direct sunlight.

When temporarily storing discharged fluid in the included drain bottle, keep the drain bottle out of direct sunlight. Otherwise the discharged fluid may harden, making the drain bottle unusable.

Dispose of discharged fluid properly, in accordance with the laws in effect in your locale.

Discharged fluid is flammable and contains toxic ingredients. Never attempt to incinerate discharged fluid or discard it with ordinary trash. Also, do not dispose of it in sewer systems, rivers, or streams. Doing so may have an adverse impact on the environment.

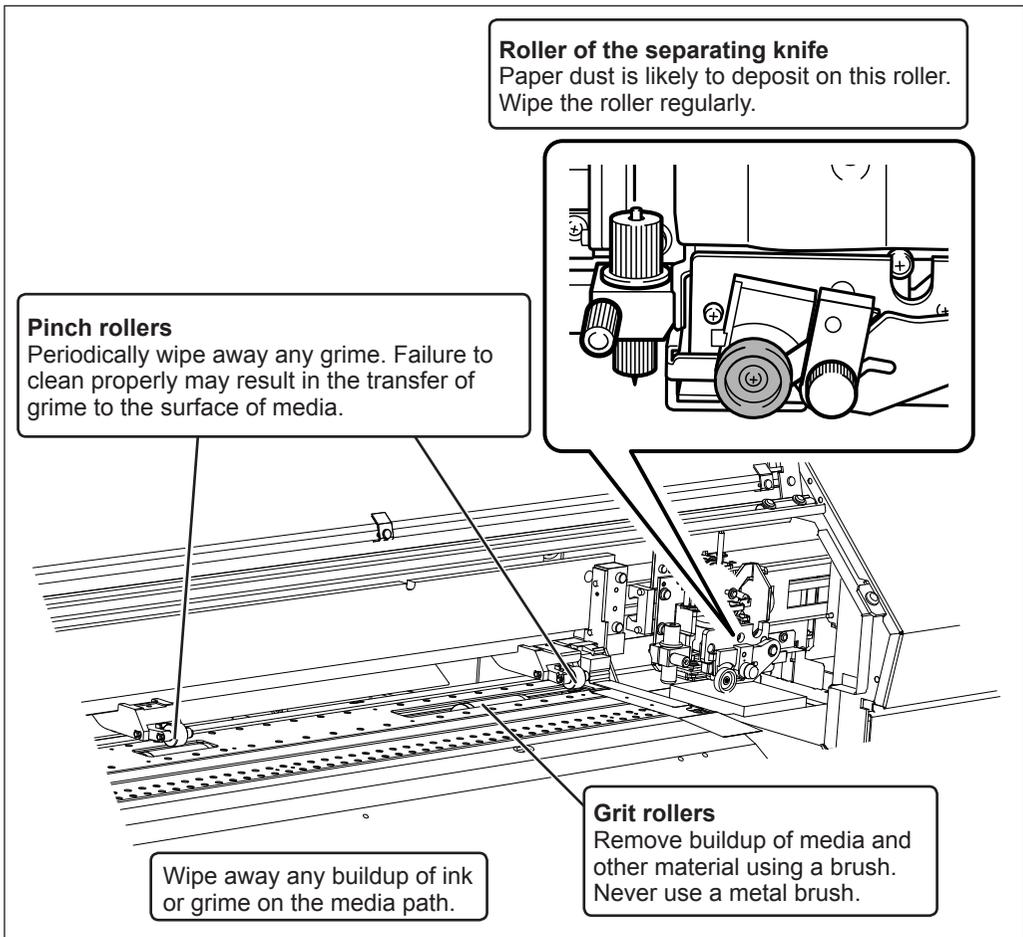
Cleaning

⚠️ WARNING Never use gasoline, alcohol, thinner, or any other flammable material. Doing so may cause fire.

Wipe away any buildup of ink or grime on the media path and other locations as daily cleaning. In particular, the pinch rollers, grit rollers, and platen are likely to get a buildup of grime. Clean by wiping with a cloth moistened by neutral detergent diluted with water then wrung dry.

POINT!

- This machine is a precision device, and is sensitive to dust and dirt. Perform cleaning on a daily basis.
- Never attempt to oil or lubricate the machine.



About Care and Maintenance of Print Head

Care of the print head is essential to ensuring optimal printing at all times. There are daily care and periodic care.

Daily Care and Maintenance

➤ Normal cleaning

It is recommended to perform the normal cleaning before daily operation.

☞ P. 67, "Printing Tests and Normal Cleaning"

Periodic Care and Maintenance

➤ Medium cleaning/Powerful cleaning

Perform the medium cleaning or powerful cleaning when the problems such as dot drop-out are not cleared up by the normal cleaning.

☞ P. 99, "Medium/ Powerful Cleaning"

➤ Manual Cleaning

Based on your frequency of use, perform the manual cleaning periodically.

☞ P. 102, "Performing Manual Cleaning"

➤ Circulation of White ink

Perform the circulating ink when concentration of the white ink to decrease.

☞ P. 108, "Restoring White Ink Concentration"

➤ White Ink Replacement

Perform the white ink replacement when the dot drop-out cannot be cleared by conducting the cleaning features (including the normal, medium, and powerful cleaning) or the manual cleaning.

☞ P. 109, "When the Dot Drop-Out Cannot be Cleared"

*The print head is component that wears out. Periodic replacement is required, with the frequency of replacement depending on use. Purchase them from your authorized Roland DG Corp. dealer.

When Normal Cleaning Is Not Effective

Medium/ Powerful Cleaning

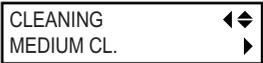
When the dot drop-out cannot be cleared by the normal cleaning ("Printing Tests and Normal Cleaning" on page 67), perform a more powerful cleaning, a "medium cleaning," twice or three times. If the condition is not improved, try the even more forceful "powerful cleaning."

POINT!

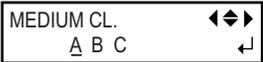
The medium cleaning consumes more ink than the normal cleaning. The powerful cleaning consumes more ink than the medium cleaning. Because the head is prone to get damaged if these cleanings are conducted too frequently, do not perform such cleanings more than necessary.

Procedure

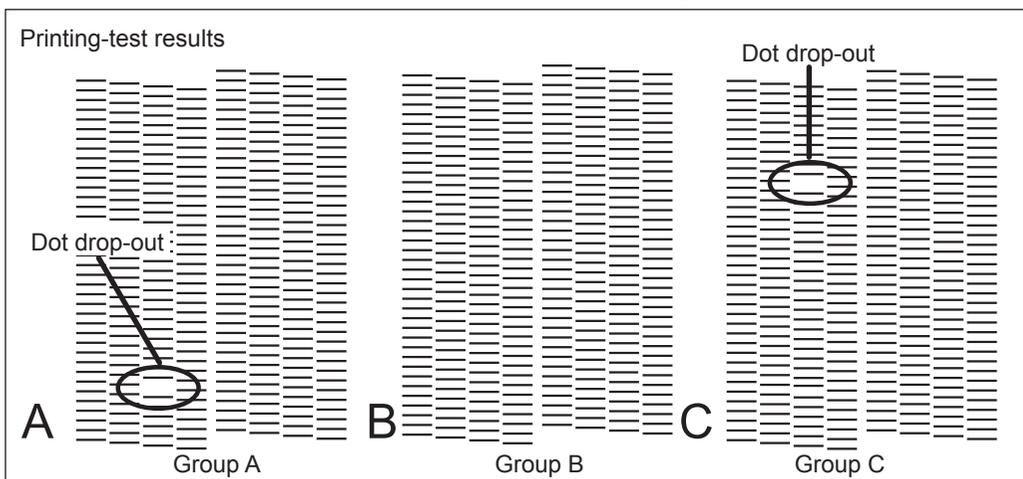
1 Press **CLEANING**.

2 

Press **▼** or **▲** and select "Medium."
When "Medium" is not effective, select "Powerful."
Press **▶**.

3 

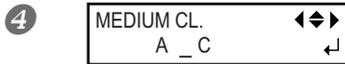
Press **◀** **▶** to choose the group of heads that is not to be cleaned.
Press **▼** **▲** to get rid of the group display.
Repeat this procedure to display the groups of only the heads that require cleaning.



If the Printing-test Results Are Difficult to Interpret

Examine the results from different angles in a well-lighted location. Take advantage of reflected light to enable visual checking.

Continued on the next page

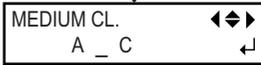


Press **ENTER**.

5 If You Chose "MEDIUM CL."



The screen shown in the figure appears, then cleaning starts.



When it finishes, the screen shown in the figure appears.

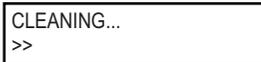
If You Chose "POWERFUL CL."



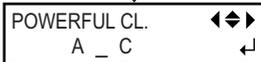
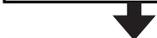
Check the drain bottle.

If the amount of discharged fluid is near the upper-limit line, then remove the bottle, discard the collected fluid, and reattach the bottle.

Press **ENTER**.



The screen shown in the figure appears.



When it finishes, the screen shown in the figure appears.



Press **MENU** **←** in this order to go back to the original screen.

Maintenance that Should Be Performed More Than Once a Month

When Manual-Cleaning Becomes Necessary

Perform the manual cleaning more than once a month.

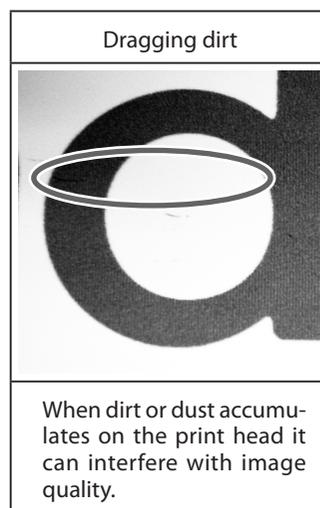
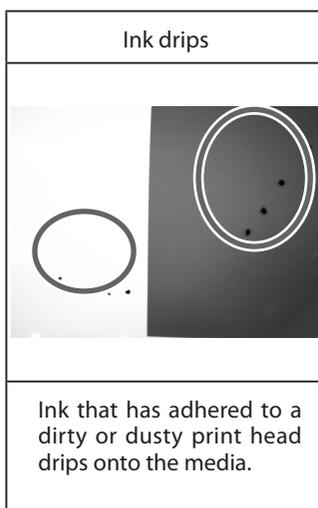
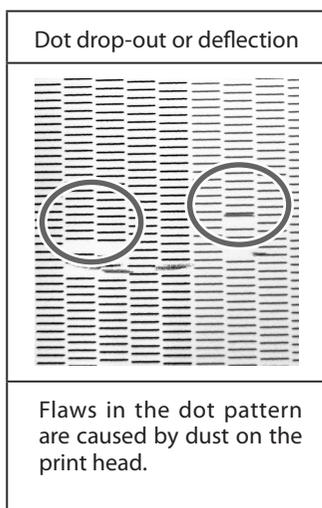
To keep the stable output condition at all times, perform the manual cleaning more than once a month.

The manual cleaning is recommended when the following symptoms occur.

It is recommended to perform the manual cleaning when any of the symptoms given below occurs and it cannot be solved by the automatic cleaning functions such as the normal cleaning.

For your information, replacement of the wiper is also effective to improve the symptoms.

⇒ P. 112, "Replacing the Wiper"



- When the cleaning stick and cleaning liquid for the manual cleaning runs out, place an order for them with your authorized Roland DG Corp. dealer.
- The print head is a component that wears out. Periodic replacement is required, with the frequency of replacement depending on use. Purchase them from your authorized Roland DG Corp. dealer.

Performing Manual Cleaning

IMPORTANT!

Important Notes on This Procedure

- For the manual cleaning, the included cleaning liquid and cleaning stick are necessary. Please prepare them in advance.
- Before attempting this operation, remove any media.
- To prevent the heads from drying out, finish this procedure in 10 minutes or less. A warning beep sounds after 10 minutes.
- Never use any implement other than the included cleaning stick. Cotton swabs or other lint-producing items may damage the heads. If you use up the cleaning stick, purchase a new one from your authorized Roland DG Corp. dealer.
- Use one cleaning stick per cleaning session, then discard the stick after use. Reusing cleaning sticks may reduce printing quality.
- Do not put the cleaning stick used for cleaning into the cleaning liquid. It will deteriorate the fluid.
- Never rub the nozzle surface of the print head.
- Stroke the sponges very gently, applying as little pressure as possible. Never rub, scrape, or crush them.
- Do not clean the irradiation surface (glass surface) of the UV irradiation device. Doing so may damage the UV irradiation device. For details on cleaning the irradiation surface of the UV irradiation device, contact your authorized Roland DG Corp. dealer.

When a warning beep sounds during cleaning

- A warning beep sounds after 10 minutes. At this time, stop work, attach the side cover and the maintenance cover, then close the front cover. Press **ENTER** to quit the manual-cleaning menu. After that, restart the procedure from the beginning.

⚠ CAUTION Be sure to perform operations as specified by the instructions above, and never touch any area not specified in the instructions. Sudden movement of the machine may cause injury.

1. Change to the print-head manual-cleaning menu.

1 Remove any media.

2 Press **MENU**.

3 

Press **▼** several times until the screen shown on the left appears. Press **▶**, and then **▲**.

4 

Press **▶**.

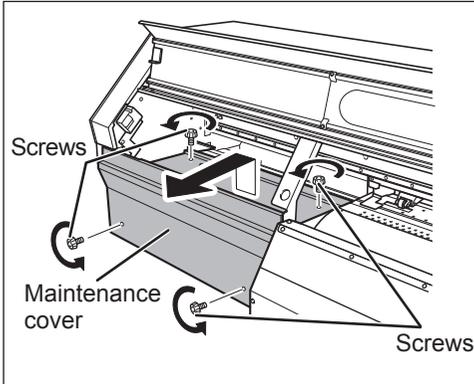
5 

Press **ENTER**.

6

OPEN MAINTENANCE COVER

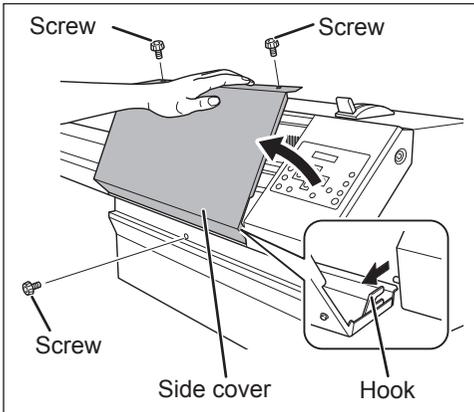
Open the front cover and remove the maintenance cover. Close the front cover and press **ENTER**. The print-head carriage moves to the left side of the machine.



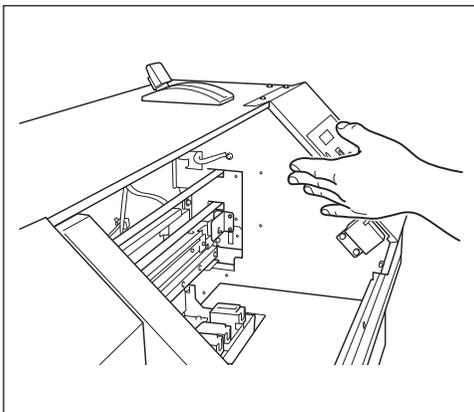
7

OPEN SIDE COVER

When the screen shown on the left appears, open the side cover.

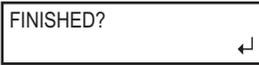


8



Touch the location shown in the figure to discharge any static electricity.

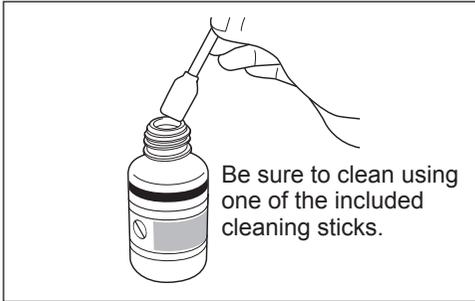
9



Preparations are complete when this screen appears.

2. Clean using the cleaning stick.

1

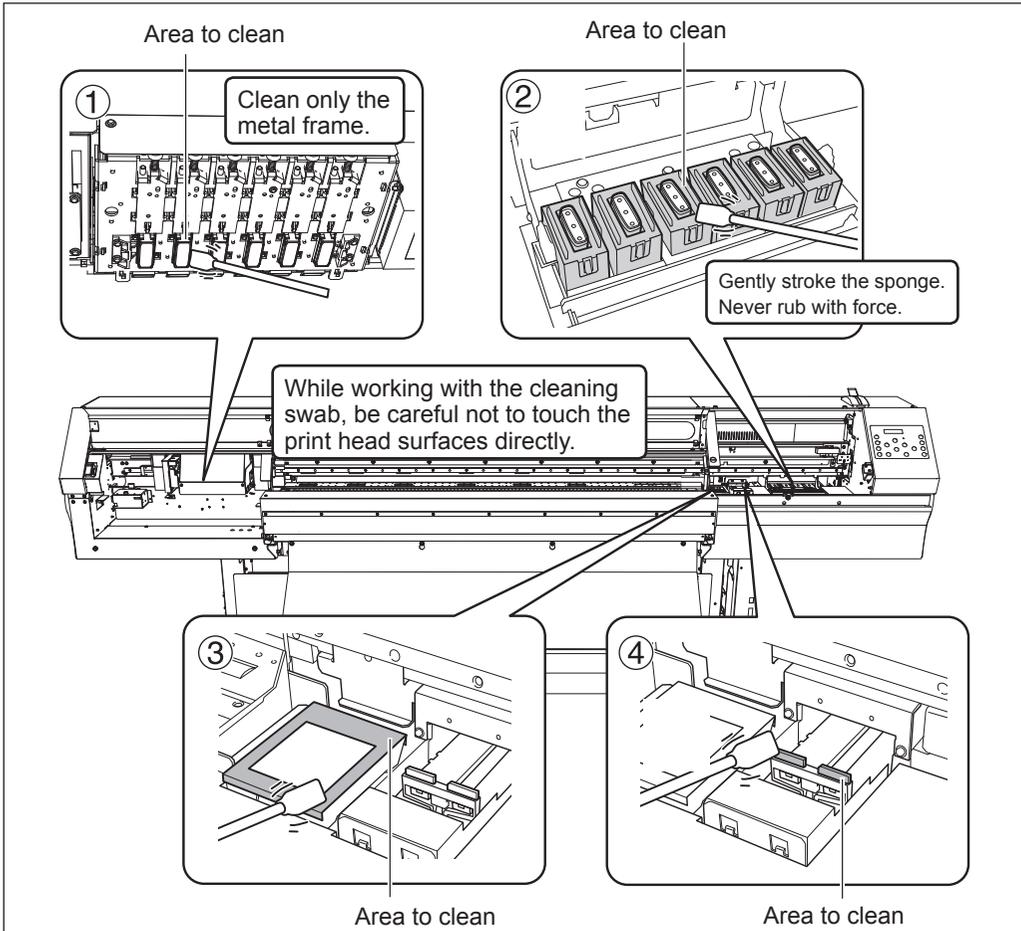


Moisten the cleaning stick with the cleaning liquid.

2

Perform cleaning in the sequence shown in the figure below.

Be especially careful to clean away any fibrous dust (lint).



Important Note

Do not clean the irradiation surface (glass surface) of the UV irradiation device. Doing so may damage the UV irradiation device. For details on cleaning the irradiation surface of the UV irradiation device, contact your authorized Roland DG Corp. dealer.

3. Quit the manual cleaning mode.

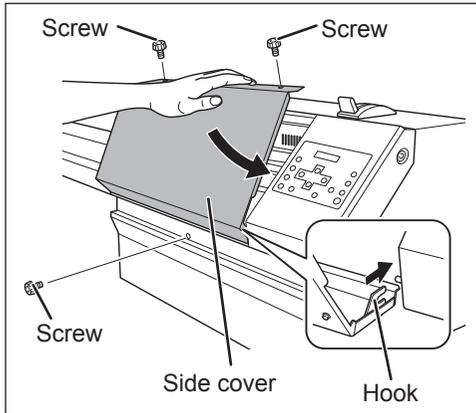
1 Press **ENTER**.

2

CLOSE SIDE COVER	↵
---------------------	---

When the screen shown on the left appears, attach the side cover.

Press **ENTER**.



3

CLOSE FRONT COVER	↵
----------------------	---

Close the front cover.

Press **ENTER**.

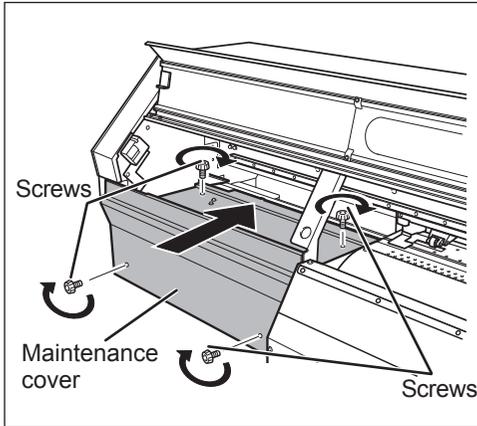
The print-head carriage moves to the right side of the machine.

CLEANING... >>

4

CLOSE MAINTENANCE COVER ↵

When the screen shown on the left appears, open the front cover, and then attach the maintenance cover. Close the front cover. Press **ENTER**.



4

Maintenance

5

SETUP SHEET
◀ ▶ ROLL

Press **MENU** **◀** in this order to go back to the original screen.

4. Perform a printing test to verify the results of the procedure.

Perform a printing test to check the results.

Perform cleaning using the machine's cleaning feature several times when necessary.

☞ P. 67, "Printing Tests and Normal Cleaning"

The Concentration and Dot Drop-Out of the White Ink

Restoring White Ink Concentration

Prolonged use of this machine may cause the concentration of the white ink to decrease. This is because white ingredients in white ink easily precipitate. The "CIRCULATING INK" feature circulates the ink to eliminate white ink precipitation. However, this procedure requires some ink to be discharged, so you should not perform this procedure frequently.

IMPORTANT!

This function applies to the Version 5.00 or later of the printer firmware. For how to check the firmware version, refer to P. 161, "Viewing Information about the System of This Machine"

Procedure

- 1 Press **MENU**.
- 2

MENU	◀▶
SUB MENU	▶

 Press **▼** several times until the screen shown on the left appears.
Press **▶**.
- 3

SUB MENU	◀▶
INK CONTROL	▶

 Press **▲** several times until the screen shown on the left appears.
Press **▶** and then **▲**.
- 4

INK CONTROL	◀▶
CIRCULATE INK	▶

 Press **▶**.
- 5

CIRCULATE INK	◀
CIR-DISCHARGE	↵

 Press **ENTER**.
Ink circulation starts.

4

Maintenance

When the Dot Drop-Out Cannot be Cleared

White ink may sometimes cause abnormal discharges including the dot drop-out even when the cleaning features (such as the normal, medium, and powerful cleaning) and the manual cleaning are performed. This can occur because the ingredients in white ink tend to settle, and may harden if allowed to stand for a lengthy time. If this happens, carry out the operations described below. This operation requires two SOL INK cleaning cartridges.

IMPORTANT!

A large amount of ink will be discharged during this operation. Perform this operation only when dot drop-out cannot be cleared up even after performing cleaning using the cleaning function (normal, medium, or powerful) or manual cleaning.

☞ P. 94, "Maintenance that Should Be Performed Daily"

☞ P. 99, "When Normal Cleaning Is Not Effective"

☞ P. 101, "Maintenance that Should Be Performed More Than Once a Month"

Procedure

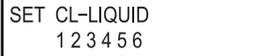
1 Press **MENU**.

2 

3 

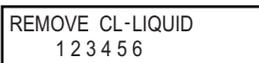
4 

Number 5 and 6 flashes.



Number 5 and 6 flashes.



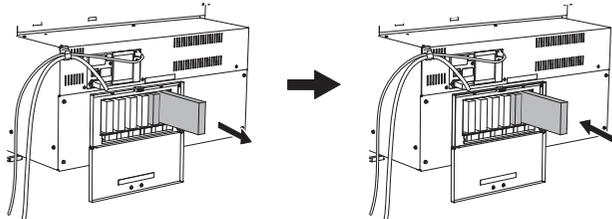
5 



Press **▲** several times until the screen shown on the left appears.
Press **ENTER**.

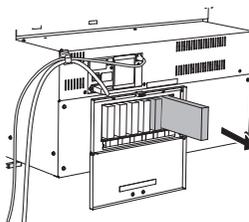
Discard the discharged fluid and attach the emptied bottle.
Press **ENTER**.

- ① Open the ink cartridge cover.
- ② Remove the ink cartridges from slots 5 and 6.
- ③ Insert SOL INK cleaning cartridges into slots 5 and 6.



When this screen appears, pull out the SOL INK cleaning cartridges from slots 5 and 6.

Carry out steps ④ and ⑤ as many times as indicated by the on-screen messages.

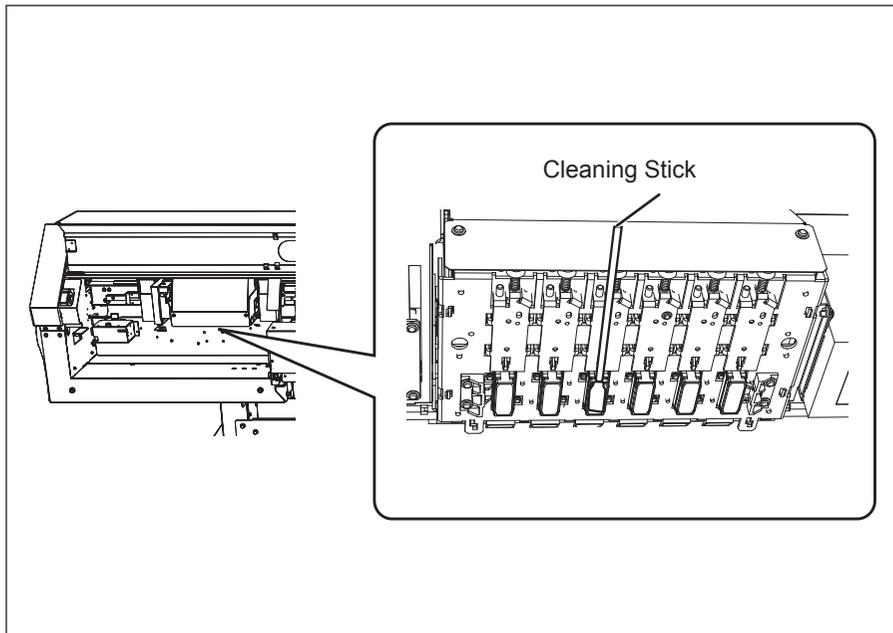


POINT! **Cleaning of the head surface as an emergency measure**

When dot drop-out and/or dot deflection is not improved even if cleaning is performed several times, you can clean the head surface as an emergency measure. Since the head surface (nozzle surface) has an extremely delicate mechanism, make sure to perform the operation carefully and deliberately. Note that this operation is an emergency measure. It may damage defect-free parts depending on the symptom, deteriorating it. If you have any questions, contact your authorized Roland DG Corp. dealer.

Procedure

- 1** **Moisten the cleaning stick with the cleaning liquid.**
- 2** **Softly press the cleaning stick to the head surface (nozzle surface).**
Press it gently and softly so that the head nozzle is permeated with the cleaning liquid. Never rub the stick on the surface and press it forcibly.



Replacing Consumable Parts

Replacing the Wiper

TIME FOR
WIPER REPLACE ↵

The wipers are components that you use when cleaning the print heads. When the screen displays a message like the one shown, it means the item needs to be replaced. Replace with new items. Regarding the purchase of the wiper, contact your authorized Roland DG Corp. dealer.

When a warning beep sounds during replacing the wiper.

A warning beep sounds after 10 minutes. At this time, stop work, attach the side cover. And then press **ENTER** to finish the wiper replacement menu. When the head-protection operation finishes, restart the procedure from the beginning.

CAUTION

Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions. Sudden movement of the machine may cause injury.

4

Maintenance

1. Display the [REPLACE WIPER] menu.

1 TIME FOR
WIPER REPLACE ↵

When the message shown in the figure appears, press **ENTER**.

2 Remove any media from the platen.

3 Press **MENU**.

4 MENU
SUB MENU ◀▶

Press **▼** several times until the screen shown on the left appears.

Press **▶** and then **▲**.

5 SUB MENU
MAINTENANCE ▶

Press **▶** and then **▼**.

6 MAINTENANCE
REPLACE WIPER ↵

Press **ENTER**.

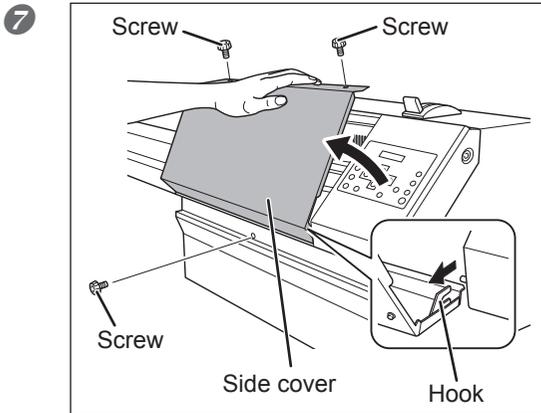
NOW PROCESSING..



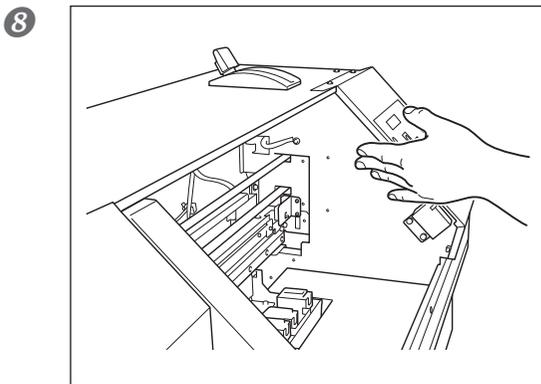
OPEN SIDE
COVER

The print-head carriage moves to a location where wiper replacement is possible, and then the screen shown in the figure appears.

Continued on the next page



Remove the side cover.



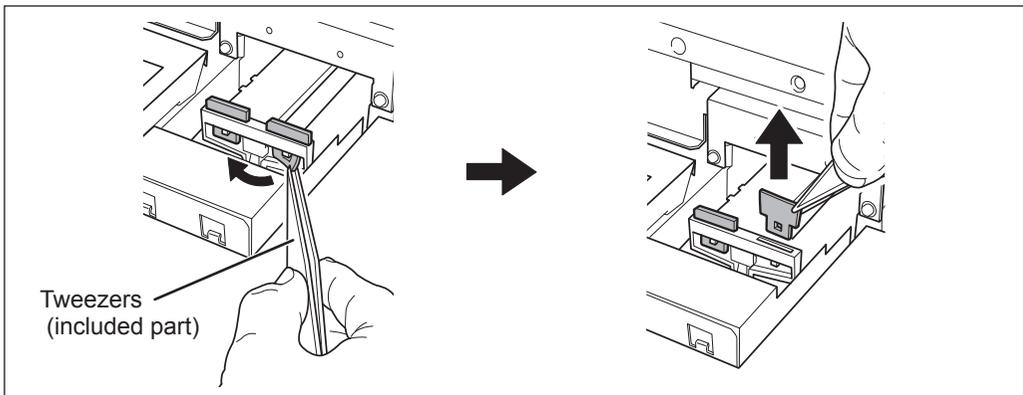
Touch the location shown in the figure to discharge any static electricity.



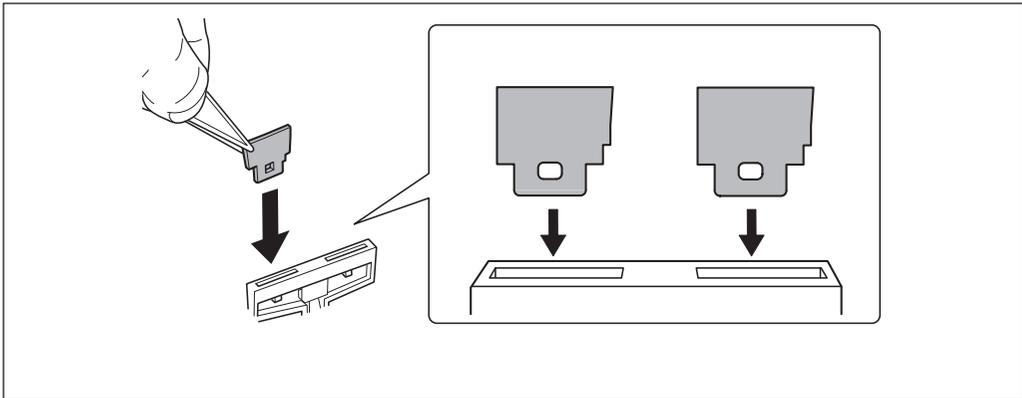
Preparations are complete when this screen appears.

2. Replace the wipers.

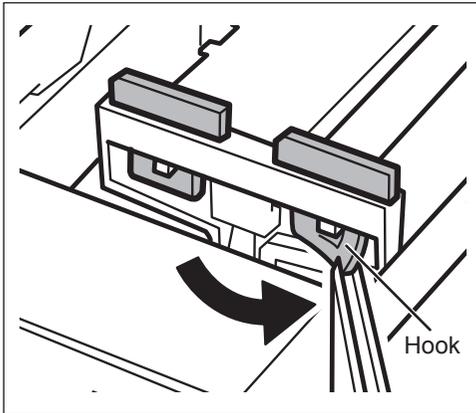
- 1 Detach the old wipers.
Detach the hook and pull up and out.



- 2** Insert the new wipers.
Insert the wipers with the orientation shown in the figure.



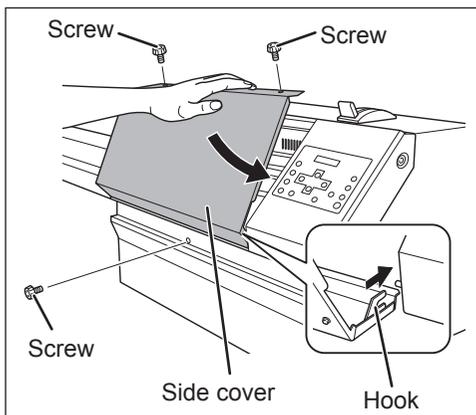
- 3** Attach the hook.



Attach the hook.

3. Quit the wiper replacement menu.

- 1** Attach the side cover.

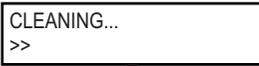


Attach the side cover.

Continued on the next page

2 

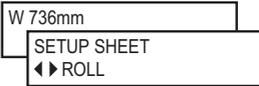
Press .







After the process to quit the wiper replacement mode, the screen shown in the figure appears.

3 

Press   in this order to go back to the original screen.

4. Perform a printing test to verify the results of the procedure.

Perform a printing test to check the result.

⇨ P. 67, "Printing Tests and Normal Cleaning"

Replacing the Blade

If the blade becomes dull, or if the edge of the blade is chipped, or if the blade quality is lowered, replace it with a new blade.

CAUTION

Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions.

Sudden movement of the machine may cause injury.

CAUTION

Never touch the tip of the blade with your fingers.

Doing so may result in injury.

1. Enter the blade replacement menu.

1 Press .

2 

Press  several times until the screen shown on the left appears.

Press  and then .

3 

Press .

Press  twice.

4 MAINTENANCE
REPLACE KNIFE

Press **ENTER**.

NOW PROCESSING..

OPEN FRONT
COVER

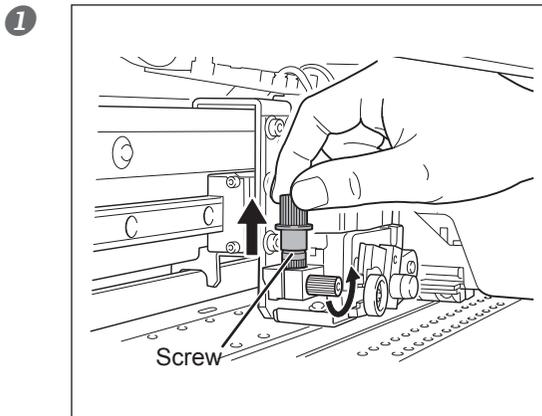
The cutting carriage moves to a location permitting blade replacement, and then the screen shown in the figure appears.

5 FINISHED?

Open the front cover.

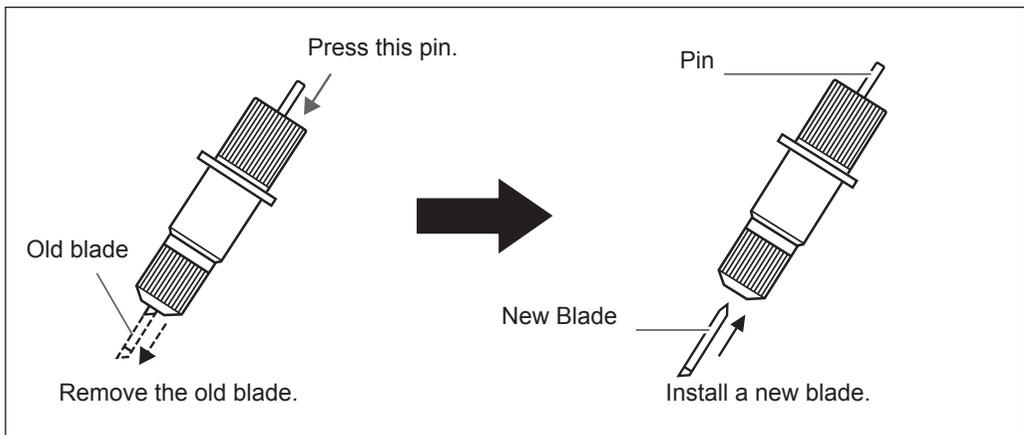
Preparations are complete when this screen appears.

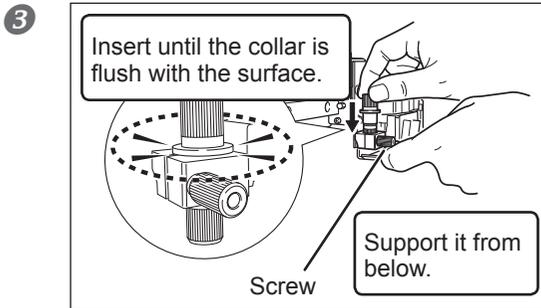
2. Replace the blade.



Loosen the screw and remove the cutter holder.

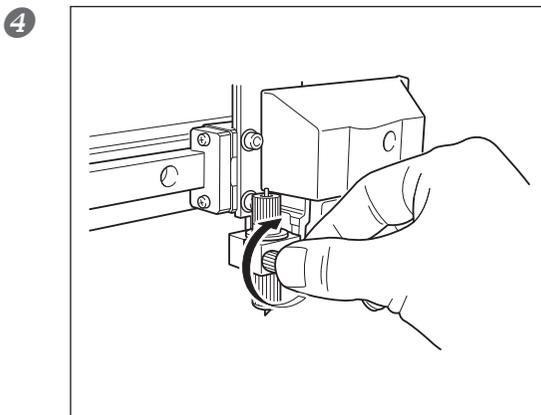
2 Replace the blade.





Support the screw from below and insert the blade holder.

If installed without supporting the screw in this way, cutting quality may become poor.



Tighten the screw.

Tug the blade holder upward to make sure it does not come loose.

3. Quit the blade replacement menu.



Close the front cover.

Press **ENTER**.

Press **MENU** **◀** in this order to go back to the original screen.

4. Adjusting the Cutting Conditions and Cutting-in Amount.

- ☞ P. 134, "Fine-tuning the Cutting Conditions"
- ☞ P. 136, "Accurately Adjusting the Cutting-in Amount"

Replacing the Separating Knife

If the separating knife becomes dull, replace it with the included replacement knife.

⚠ CAUTION Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions. Sudden movement of the machine may cause injury.

⚠ CAUTION Never touch the tip of the blade with your fingers. Doing so may result in injury.

1. Replacing the Separating Knife.

1 Press **MENU**.

2 

Press **▲** several times until the screen shown on the left appears. Press **▶** and then **▲**.

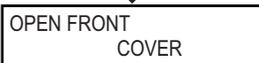
3 

Press **▶**. Press **▼** twice.

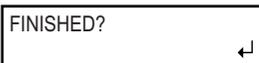
4 

Press **ENTER**.



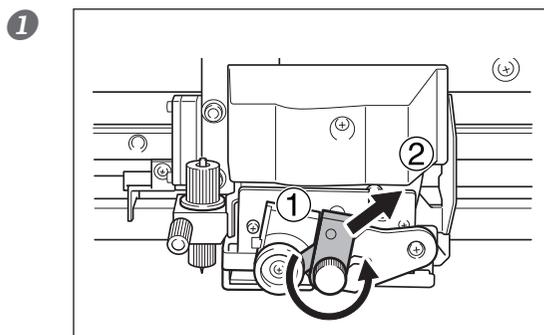


The cutting carriage moves to a location where blade replacement is possible, and then the screen shown in the figure appears.

5 

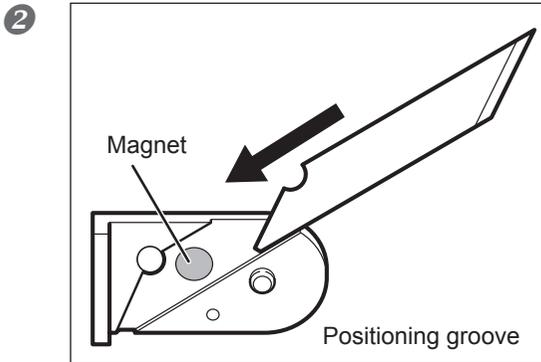
Open the front cover. Preparations are complete when this screen appears.

2. Replace the separating knife.

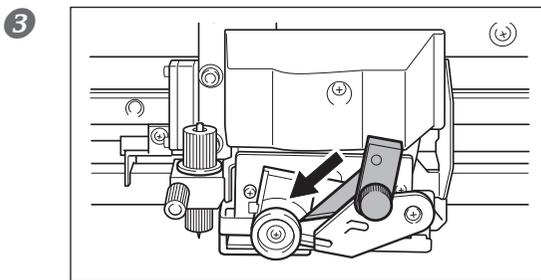


Remove the separating knife.

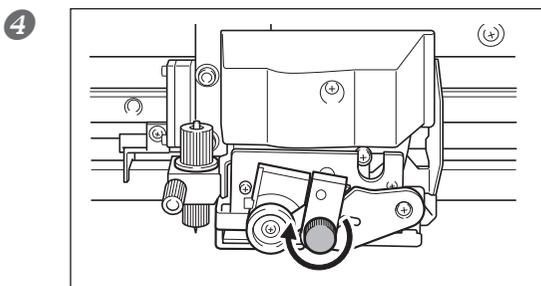
- ① Loosen the screw until it slips out.
- ② Grasp the screw portion, and slowly pull it out in the direction of the arrow. When doing this, do not pull it back toward you.



Install a new knife.
The knife is secured in place by the magnet.



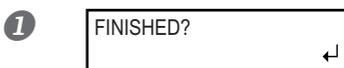
Slowly insert it into the groove.



Tighten the screw.
Take care to ensure that the knife does not slip out of position at this time.

4
Maintenance

3. Quit the blade replacement menu.



Close the front cover.
Press **ENTER**.



Press **MENU** **←** in this order to go back to the original screen.

When Not in Use for a Prolonged Period

Keep Performing Maintenance

Switch on the power once every two weeks

Switch on the sub power once every two weeks. When you turn on the power, the machine automatically performs some operations such as those to keep the print heads from drying out. Allowing the machine to stand completely unused for a prolonged period may damage the print heads, so be sure to switch on the power to perform these automatic operations.

Keep at a Constant Temperature and Relative Humidity

Even when the machine is not in use, keep it at a temperature of 5 to 40°C (41 to 104°F) and a relative humidity of 20 to 80% (with no condensation). If temperatures are too high or too low, it may cause malfunction.

Alarm Feature

PRESS THE POWER
KEY TO CLEAN

This feature is to remind you to switch on the sub power once a month. When the machine remains unused for about one month, this screen appears and a warning beep sounds. If this screen appears, switch on the sub power. When maintenance operations finish, switch off the sub power.

This feature operates when the printer's main power is turned on. We recommend leaving on just the main power to the printer even when the machine is to remain out of use for a prolonged period.

4

Maintenance

Important Note on Draining Ink

INK CONTROL PUMP UP

INK CONTROL HEAD WASH

This machine has features for draining internal ink and for performing washing using SOL INK cleaning cartridges, but they should never be used except in special cases. Allowing the machine to stand without ink for a prolonged period may damage the heads, even if internal washing is performed. Once ink has been filled, then as a rule the ink should never be drained.

Chapter 5

Part of Practice

Fully Utilizing Preset Function.....	122
Saving the Various Settings to the Preset	122
Loading a Saved Preset	123
Assigning a Name to a Preset.....	123
Fully Utilizing the Correction Function	125
Correcting for Misalignment in Bidirectional Printing	125
Correcting for Misalignment in Bidirectional Printing More Precisely .	126
Alleviating Horizontal Bands and the Like (feed correction function) .	126
Accommodating to the Types and Condition of Media.....	128
Adjusting Head Height to Match Media Thickness	128
Using Transparent Media	129
Using the Media Easy to be Winkled / Hard to be Fed.....	129
Speeding Up Output for Narrow Media	130
Preventing Soiling of the Media and Dot Drop-out	132
Fully Utilizing Cutting Function.....	133
Hints and Tips for Cutting Setting.....	133
Preventing Pulling of the Media with Undue Force When	
Performing Cutting Only	133
Fine-tuning the Cutting Conditions	134
Accurately Adjusting the Cutting-in Amount.....	136
Adjusting the Conditions for Cutting the Printed	
Surface/Cutting-in Amount.....	136
Performing Distance Correction During Cutting	139
Correcting Misalignment of the Printing and Cutting Positions	140
Prioritize the Cutting Settings of This Machine to	
the Settings of the Software RIP	142
Viewing the Automatic Environment Correction Function Settings	143
Performing Printing and Cutting Separately.....	144
To Perform Printing and Cutting Separately	144
Printing with Crop Marks	144
Aligning Automatically and Cutting	146
Aligning Manually and Cutting.....	148
Correcting Misalignment for Printing and Cutting When Using	
Crop Marks.....	149
Switching the Ink Type(EUV←→EUV3).....	152
Method for Switching the Ink Type(EUV←→EUV3).....	152

Fully Utilizing Preset Function

Saving the Various Settings to the Preset

Procedure

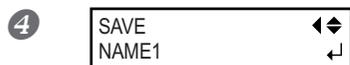
1 Press **MENU**.



Press **▼** twice to display the left figure.
Press **▶**, and then **▼**.



Press **▶**.



Press **▲** **▼** to select one of NAME1 through 8.
Press **ENTER** to enable the setting.

The present menu settings are saved.



Press **MENU** **◀** in this order to go back to the original screen.

Description

Using the [PRESET] menu lets you easily change a wide variety of settings to optimize them for the media. Up to eight types of presets can be saved. You can assign a name to each one. Using media names for these may aid recognition and clarity. Making changes for each menu item every time you change the media can be troublesome. That's why it can be useful to save the menu-item settings optimized for an often-used type of media as a preset. The next time you use the media, you can change the menu-item settings to the optimal values for the media simply by loading the preset you saved. Menu items that can be saved in presets are listed below.

[ADJUST BI-DIR SIMPLE SETTING]	☞ P. 125, "Correcting for Misalignment in Bidirectional Printing"
[ADJUST BI-DIR DETAIL SETTING]	☞ P. 126, "Correcting for Misalignment in Bidirectional Printing More Precisely"
[CALIBRATION]	☞ P. 126, "Alleviating Horizontal Bands and the Like (feed correction function)"
[EDGE DETECTION]	☞ P. 129, "Using Transparent Media"
[VACUUM POWER]	☞ P. 129, "Using the Media Easy to be Winkled / Hard to be Fed"
[FULL WIDTH S]	☞ P. 130, "Speeding Up Output for Narrow Media"
[FORCE], [SPEED], [OFFSET], [UP-SPEED]	☞ P. 134, "Fine-tuning the Cutting Conditions"
[CALIBRATION] (in the [CUTTING MENU])	☞ P. 139, "Performing Distance Correction During Cutting"
[PRINT-CUT ADJ.]	☞ P. 140, "Correcting Misalignment of the Printing and Cutting Positions"

[CROP-CUT ADJ.]

☞ P. 149, "Correcting Misalignment for Printing and Cutting When Using Crop Marks"

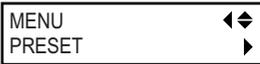
☞ P. 123, "Loading a Saved Preset"

☞ P. 123, "Assigning a Name to a Preset"

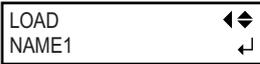
Loading a Saved Preset

Procedure

1 Press **MENU**.

2 

Press **▼** to display the left figure.
Press **▶** twice.

3 

Press **▲** **▼** to select a name to be called.
Press **ENTER** to enable the setting.



The settings are changed and the screen shown in the figure appears.

Description

This loads a saved preset. You can select any one of eight types of presets. (When no names have been assigned, you select from among NAME1 through NAME8.) If you load a preset while **SET UP** is illuminated, **SET UP** goes dark. When starting output, press **SET UP** again to make the output operation available.

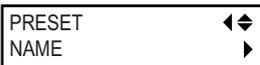
Assigning a Name to a Preset

Procedure

1 Press **MENU**.

2 

Press **▼** to display the left figure.
Press **▶** and then **▲**.

3 

Press **▶**.

4 

Press **▲** **▼** to select one of NAME1 through 8.
Press **▶**.

Continued on the next page.

5

NAME	◀▶
S_	↵

Press   to enter a character.
When a character is decided, press  .

The characters you can enter are "A" through "Z," "0" through "9," and the "-" character. You can enter up to 15 characters, including spaces.

6

NAME	◀▶
SAMPLE_	↵

Press   to enter a character.
Enter the following characters in the same way.
When entries are completed, press  to enable the setting.

7

W 736mm
SETUP SHEET
◀▶ ROLL

Press   in this order to go back to the original screen.

Description

This assigns a name to a saved preset. Using media names may aid recognition and clarity. The characters you can enter are "A" through "Z," "0" through "9," and the "-" character. You can enter up to 15 characters, including spaces.

Fully Utilizing the Correction Function

Correcting for Misalignment in Bidirectional Printing

Procedure

1 Press **MENU**.

2

MENU	◀▶
ADJUST BI-DIR	▶

Press **▼** several times to display the left figure.
Press **▶**.

3

ADJUST BI-DIR	◀▶
TEST PRINT	↵

Press **ENTER**.

A test pattern is printed.

When printing is completed, press **▼** **▶** in this order.

4

SIMPLE SETTING	◀▶
1: 0	2: 0
	↵

Press **▲** **▼** to select 1 or 2.

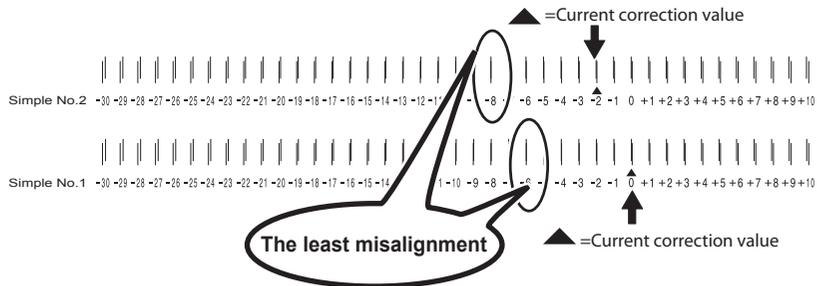
5 Press **▲** **▼** to select a correction value.

Select a correction value for "Simple No.1" in [1] and a correction value for "Simple No.2" in [2].

To decide a Correction Value

Choose the value that produces the least misalignment of 2lines.

When wavering between two numbers, select half value.



6 Press **ENTER** to enable the setting.

7

W 736mm
SETUP SHEET
◀▶ ROLL

Press **MENU** **◀** in this order to go back to the original screen.

Description

This machine prints by the bidirectional mode (in which the heads perform printing during both their outbound pass and return pass). This printing method is called "Bidirectional Printing." This method offers the advantage of being able to shorten output times, but subtle misalignment occurs during the outbound and return passes. The procedure to correct this and eliminate misalignment is "Bidirectional Correction." This misalignment varies according to the head height and the thickness of the media, so we recommend performing correction to match the media you're using.

This settings also serves to correct for misalignment of the printing and cutting positions. In such cases, check or adjust this setting.

☞ P. 140, "Correcting Misalignment of the Printing and Cutting Positions"

Correcting for Misalignment in Bidirectional Printing More Precisely

When further correction is required, such as when adjustment made using [SIMPLE SETTING] does not enhance printing, use [DETAIL SETTING] to make corrections.

For information on operations, refer to page 53 "Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)"

Alleviating Horizontal Bands and the Like (feed correction function)

Procedure

1 When the roll media is used, check that no sagging is found on the media.

2 Press **MENU**.

3 

Press **▼** several times to display the left figure.

Press **▶**.

4 

Press **ENTER**.

A test pattern is printed.

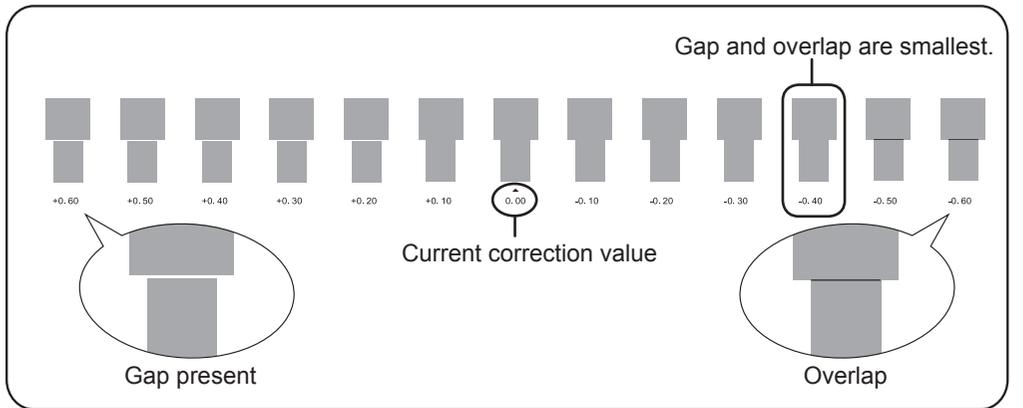
When printing is completed, press **▼** **▶** in this order.



Press to select a correction value.
Press to enable the setting.

To decide a Correction Value

Select the value to make the upper/lower rectangular gap and overlap smallest.



Press in this order to go back to the original screen.

Description

The movement distance of media experiences subtle changes due to the thickness of the media. When the movement distance becomes discrepant, horizontal stripes are more likely to occur during printing. We recommend performing correction to match the media you're using. Repeat the process of printing a test pattern and entering a correction value several times to find the optimal value.

You can also make this setting on the RIP software computer (by, for example, choosing the media type in the software RIP you are using). When you have made the setting on the software RIP, the software RIP's setting is used and the printer's setting is ignored.

Default Setting

[SETTING]: 0.00%

Accommodating to the Types and Condition of Media

Adjusting Head Height to Match Media Thickness

Procedure

1 Press **MENU**.

2

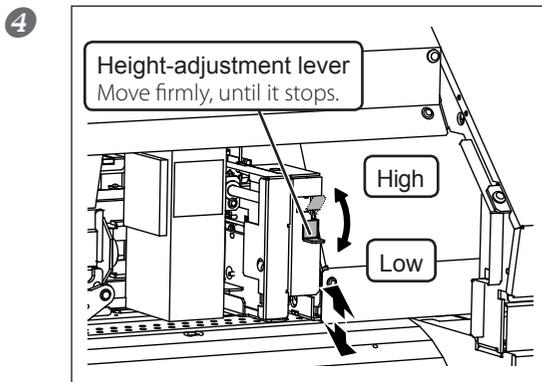
MENU	◀▶
HEAD HEIGHT	▶

Press **▼** several times to display the left figure.
Press **▶**.

3

HEAD HEIGHT	◀
LOW	▶ LOW

When the left figure is displayed, open the front cover.



Move the height-adjustment lever to adjust the head height.

Moving the lever to "HIGH" makes a warning beep sound twice. Moving it to "LOW" makes the warning beep sound once.

Normally set the lever at "LOW." However, when using the media of which thickness is over 0.5mm, set the lever at "HIGH."

5

MENU	◀▶
HEAD HEIGHT	▶

Close the front cover.

The print-head carriage moves to the original position, and then the screen shown in the figure appears.

6

W 736mm
SETUP SHEET
◀▶ ROLL

Press **MENU** **◀** in this order to go back to the original screen.

Description

The thick media is prone to contact the print head. When you are using such media, adjust the head height to "HIGH."

Printing quality when the head height is set to "HIGH" may be coarser or otherwise lower than when set to "LOW." If this happens, refer to the pages indicated below.

- ☞ P. 125, "Correcting for Misalignment in Bidirectional Printing"
- ☞ P. 126, "Correcting for Misalignment in Bidirectional Printing More Precisely"
- ☞ P. 132, "Preventing Soiling of the Media and Dot Drop-out"

Default Setting

[HEAD HEIGHT]: LOW

Using Transparent Media

Procedure

1 Press **MENU**.

2 

Press **▼** several times to display the left figure.
Press **▶** twice.

3 

Press **▲** **▼** to select "DISABLE."
Press **ENTER** to enable the setting.

4 

The settings are changed and the screen shown in the figure appears.

Description

This setting enables or disables detection of the leading and trailing edges of the media. It is normally set to "ENABLE." When transparent media is loaded, set it to "DISABLE." When [EDGE DETECTION] is set to "DISABLE," printing operation does not stop when the media runs out. If media runs out while printing is in progress, immediately press **PAUSE** to quit printing. Otherwise, there is a chance that the platen or the like may become soiled by ink or that ink may get inside and damage the machine.

Default Setting

[EDGE DETECTION]: ENABLE

Using the Media Easy to be Winkled / Hard to be Fed

Procedure

1 Press **MENU**.

2 

Press **▼** several times to display the left figure.
Press **▶**, and then **▼**.

3 

Press **▶**.

Continued on the next page



Press to select a value.
0 to 100%

A larger value produces a larger suction force. For the media easy to be loose due to warping or wrinkling, increase of the suction force may help correct the problem. When the media is flimsy and cannot move smoothly, reduction of the suction force may correct such the problem.

AUTO

The suction force is automatically adjusted to the optimal level for the media width.

Press to enable the setting.



Press in this order to go back to the original screen.

Description

The platen uses suction to grip the media and keep it stable. The suction force can be adjusted corresponding to the mature and condition of the media.

You can also make this setting on the RIP software computer. When you have made the setting on the software RIP, the software RIP's setting is used and the printer's setting is ignored.

Default Setting

[VACUUM POWER]: AUTO

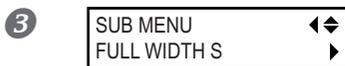
Speeding Up Output for Narrow Media

Procedure

1 Press .



Press several times to display the left figure.
Press .



Press several times to display the left figure.
Press .



Press to select an item.
SHEET

"SHEET" matches the range of head movement to the width of the media.
OFF

"OFF" matches the range of head movement to the output data. Movement is limited to the minimum amount necessary, and this can be expected to yield the fastest output. Note, however, that because the speed of media movement is no longer constant, colors may be uneven.

FULL

This makes the speed of media movement constant at all times and produces the most stable printing result.

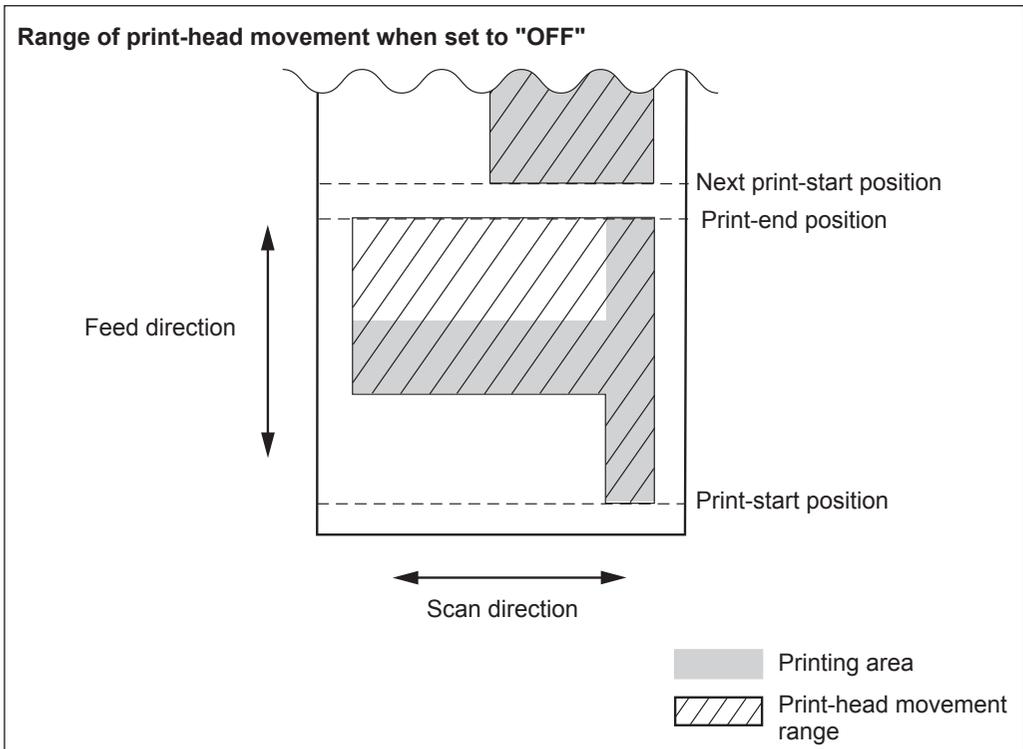
Press to enable the setting.



Press in this order to go back to the original screen.

Description

This shortens output time by reducing the width of print head movement to the minimum necessary. This is effective when the width of the media or the output data is narrow.



Default Setting

[FULL WIDTH S]: FULL

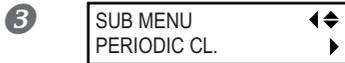
Preventing Soiling of the Media and Dot Drop-out

Procedure

1 Press **MENU**.



Press **▼** several times to display the left figure.
Press **▶**.



Press **▼** several times to display the left figure.
Press **▶**.



Press **▲** **▼** to select an item.
PAGE

Automatic cleaning is performed every time before printing starts.
5 to 990 min

Automatic cleaning is performed when the cumulative printing time reaches the value you set here.

NONE

Automatic cleaning is not performed.

Press **ENTER** to enable the setting.



Press **MENU** **◀** in this order to go back to the original screen.

Description

In the following cases, Ink tends to collect on the surface of the heads. Under some conditions, this ink may be transferred to the media or cause dot drop-out.

- When you use media prone to buildup of static charge.
- When the ambient temperature is low.
- When the head height is set to "HIGH."

Selecting "PAGE" or a value from "5 min" to "990 min," the ink buildup is removed before or during printing while printing is performed. Note, however, that using "PAGE" or a value from "5 min" to "990 min," results in longer printing times.

Default Setting

[PERIODIC CL.]: NONE

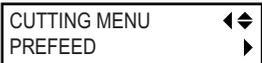
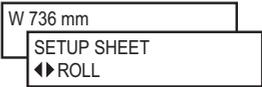
Fully Utilizing Cutting Function

Hints and Tips for Cutting Setting

- Setting the [PREFEED] menu item to “ENABLE” makes the machine automatically feed out media and take it up again before cutting. This makes it unnecessary to run out media to the rear of the machine before the operation.
 - ☞ P. 133, "Preventing Pulling of the Media with Undue Force When Performing Cutting Only"
- The tip of the blade holder cap may scrape, and soil or damage the printed surface. If this happens, increase the amount of blade extension.
 - ☞ P. 136, "Accurately Adjusting the Cutting-in Amount"

Preventing Pulling of the Media with Undue Force When Performing Cutting Only

Procedure

- 1  .
- 2  Press  to display the left figure.
Press  .
- 3  Press  to display the left figure.
Press  .
- 4  Press   to select “ENABLE.”
Press  to enable the setting.
- 5  Press   in this order to go back to the original screen.

Description

This feeds out media according to the size of the data sent from the computer before performing cutting. Therefore, the media does not have to be hanged down manually before every cutting operation. Note, however, that this feeds out media even when you're performing printing only, so set it to "DISABLE" when not needed.

Default Setting

[PREFEED]: DISABLE

Fine-tuning the Cutting Conditions

Procedure

1 Performing the Cutting Test

☞ P. 71, "The Cutting Test And Setting The Blade Force" *1*.

2 Press  .



Press   to select the set cutting condition.

[Force]

This sets the force (pressure) of the blade.(Default Setting 50gf)

[Speed]

This sets the speed of cutting. Default Setting: 30 cm/s)

[OFFSET]

This makes the blade-offset setting for the blade. Enter the listed offset value for the blade. (The offset value for the included blade is 0.25 mm.) (Default Setting: 0.250 mm)

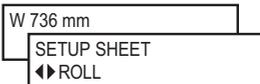
[UP-SPEED]

This sets the blade's up speed during cutting (the speed at which the blade travels when it moves to the next cutting line after cutting one cutting line). If the media comes loose during no-load feed and the blade damages the surface of the media, reduce the speed.(Default Setting: 30 cm/s)



Press   to select a value.

Press  to enable the setting.



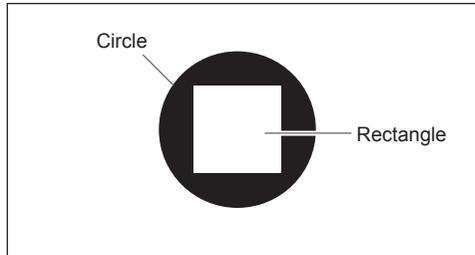
The original screen appears.

For information on the evaluation method of cutting test, refer to the next page.

Evaluating the Results of a Cutting Test

Check the shape of the test pattern.

The cut shape is distorted. ⇒ Decrease the value of [Speed].



Peel off the circle.

The rectangle also peels off. ⇒ Increase the value of [Force].

Some uncut areas remain. ⇒ Decrease the value of [Speed].

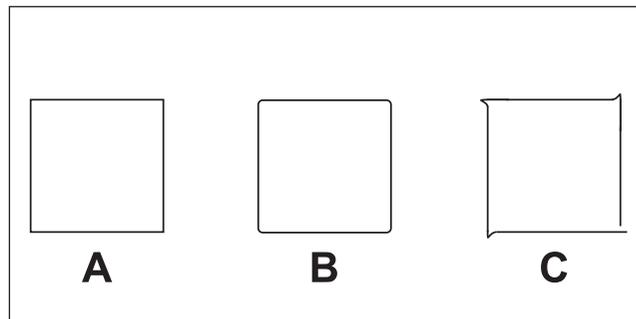
Peel off the rectangle.

The blade should leave faint traces on the backing paper. ⇒ Do not change the value of [Force].

The blade trace is indistinct. ⇒ Increase the value of [Force].

The blade trace is too deep and cuts into the backing paper. ⇒ Decrease the value of [Force].

Check the shape of the rectangle.



A ⇒ Do not change the value of [OFFSET].

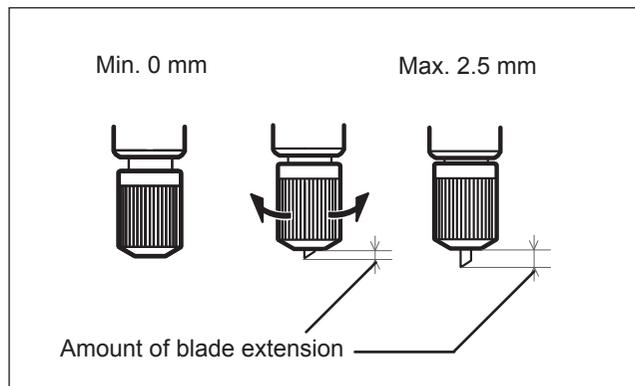
B (The corners are rounded.) ⇒ Increase the value of [OFFSET].

C (The corners have "horns.") ⇒ Decrease the value of [OFFSET].

Accurately Adjusting the Cutting-in Amount

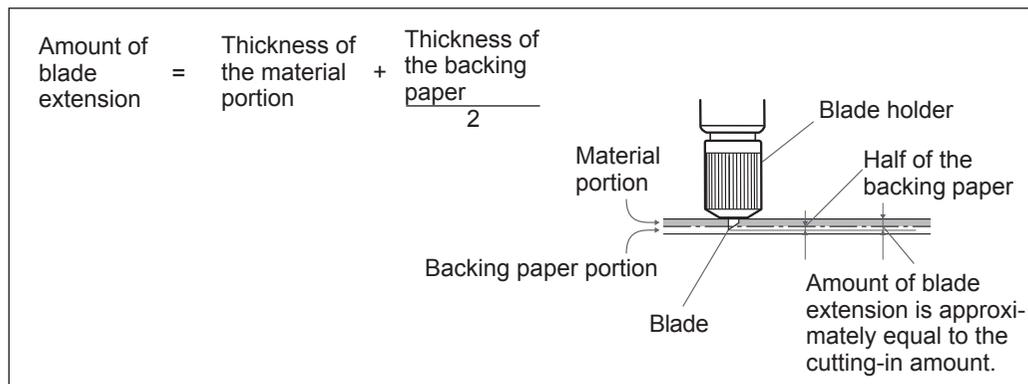
When you want to perform accurate and fine adjustment of the cutting-in amount, such as when cutting media with thin backing paper, you can obtain good results by adjusting the tip of the blade. Turn the cap portion of the blade holder to adjust the amount of blade extension. Each indicator tick corresponds to 0.1 millimeters, and adjustment for 0.5 millimeters can be made by rotating the cap one full turn.

Note that making the amount of blade extension too small may cause the tip of the blade holder cap to touch, and may soil and damage the printed surface. It's important to be especially careful about this when you're using media that has poor ink adhesion properties.



Rough Estimate for the Amount of Blade Extension

Use the following dimension as a rough estimate for setting the amount of blade extension.



Adjusting the Conditions for Cutting the Printed Surface/Cutting-in Amount

1. Performing the cut test print.

- 1 Press to move the cutting carriage to the position where the cut test print should be performed.

The position to perform the cut test print can be selected and set freely.

2 Press **BASE POINT**.

3 Close the front cover.

4 Press **MENU**.

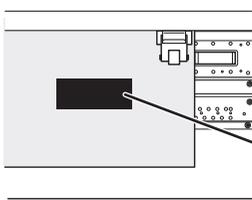
5



Press **▲** to display the left figure.

Press **ENTER**.

The cut test print starts.



Cut test print



2. Performing the Cutting Test on the Printed Surface.

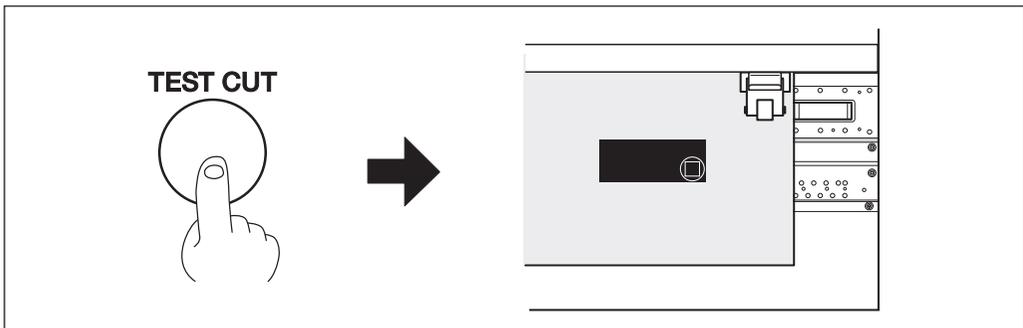
1 Press **▲**, **▼**, **◀**, **▶** to move the cutting carriage to the position where the cutting test should be performed on the printed surface.

2 Press **BASE POINT**.

3 Close the front cover.

4 Press **TEST CUT**.

The test pattern is cut on the printed surface.



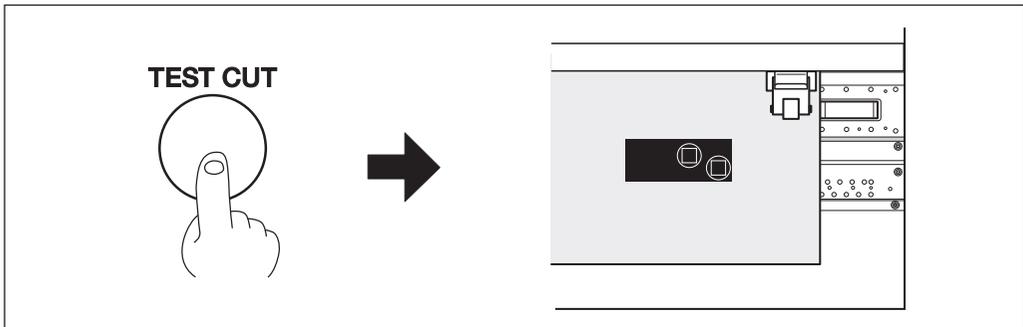
Continued on the next page

3. Check the result of the cutting test, and make adjustment.

- ① Open the front cover.
- ② Check the result of the cutting test, and make adjustment.
 - ☞ P. 134, "Fine-tuning the Cutting Conditions"
 - ☞ P. 136, "Accurately Adjusting the Cutting-in Amount"

4. Check the result of the adjustment.

- ① Press     to move the cutting carriage to the position where the cutting test should be performed on the printed surface.
- ② Press  .
- ③ Close the front cover.
- ④ Press  .
The test pattern is cut on the printed surface.



- ⑤ Open the front cover.
- ⑥ Check the result of the cutting test.
Adjustment is complete when optimal results are obtained. If further adjustment is needed, go back to step 3.-② and fine-tune the adjustment.

Description

Hardened ink is thick. Therefore, different cutting conditions are required for cutting on the printed surface from cutting on the unprinted surface. For cutting on the printed surface, use this [CUT TEST PRINT] and adjust the cutting conditions.

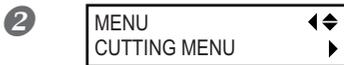
Note: These adjustments are general suggestions. Their accuracy is not assured.

Performing Distance Correction During Cutting

*When you're performing printing followed by cutting, be sure to set the correction value to "0.00%." Otherwise the printing and cutting positions may become misaligned.

Procedure

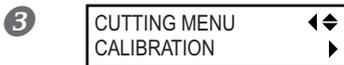
1 Press **MENU**.



Press **▲** several times until the screen shown on the left appears.

Press **▶**.

Press **▼** twice.



Press **▶** twice.

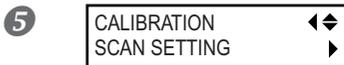


Press **▲** **▼** to select a correction value.

Set the correction value of media feed direction.

Press **ENTER** to enable the setting.

Press **◀** and then **▼**.



Press **▶**.



Press **▲** **▼** to select a correction value.

Set the correction value of head movement direction.

Press **ENTER** to enable the setting.



Press **MENU** **◀** in this order to go back to the original screen.

Description

The movement distance of the media changes subtly depending on the media's thickness. This means that the length of a line when cut may differ from the length setting in the data. You enter a correction value when you want to align the lengths

Default Setting

[FEED SETTING]: 0.00%

[SCAN SETTING]: 0.00%

Correcting Misalignment of the Printing and Cutting Positions

Note: When performing this setting, make sure to set the correction value of [CUTTING MENU CALIBRATION] to "0.00%."

☞ P. 139, "Performing Distance Correction During Cutting"

Procedure

1 Make sure the [AUTO ENV. MATCH] menu item is set to "ENABLE."

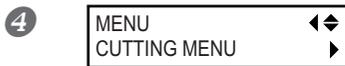
☞ P. 143, "Viewing the Automatic Environment Correction Function Settings"

2 Perform bidirectional adjustment.

☞ P. 125, "Correcting for Misalignment in Bidirectional Printing"

☞ P. 126, "Correcting for Misalignment in Bidirectional Printing More Precisely"

3 Press **MENU.**



Press **▲** to display the left figure.

Press **▶**.



Press **▶**.



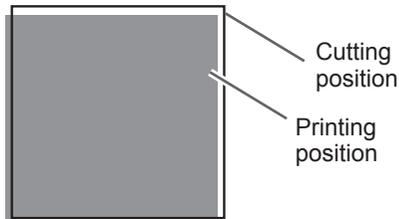
Press **ENTER**.

The test pattern (P&C1) is printed and cut. The test pattern is printed at three locations on the media: at the two edges and in the center.

When adjustment is needed, go on to the next Procedure.

To check the test pattern (P&C1)

Check to make sure that the printing position and the cutting position are aligned.



Printing position and Cutting position are misaligned.



Printing position and Cutting position are aligned.



Press **▲** to display the left figure.

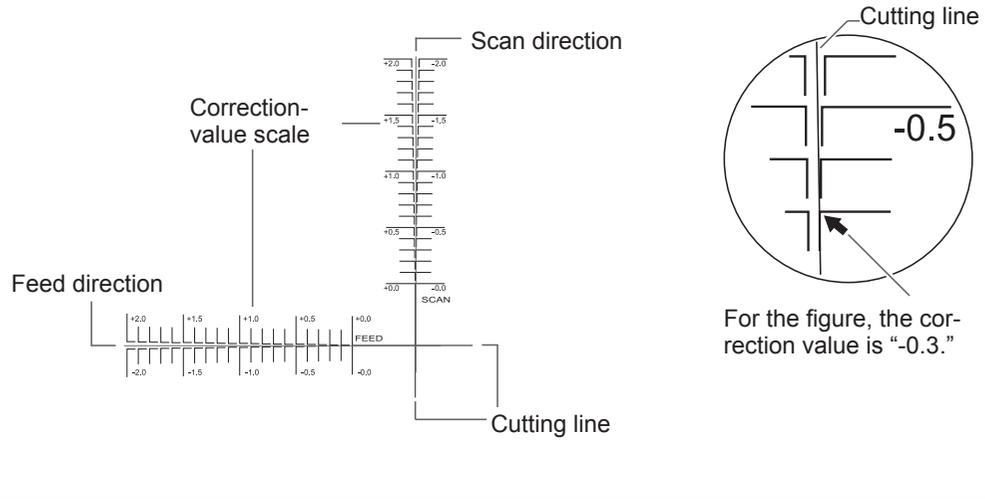
Press **ENTER**.

The test pattern (P&C2) is printed and cut.

For information on the method of test pattern check, refer to the next page.

To check the test pattern (P&C2)

The point where the cutting line intersects the correction-value scale is the correction value. Check the scan direction and the feed direction respectively.



8 PRINT - CUT ADJ. SETTING

Press **▲** to display the left figure.
Press **▶**.

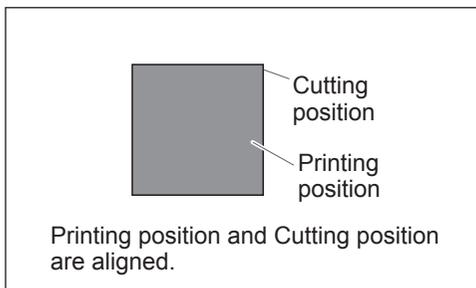
9 F :- 0.30 ▶ - 0.30mm
S : 0.00 ▶ - 0.20mm

Press **▲** **▼** to select a correction value of [F] (feed direction of media).
Press **◀** **▶** to select a correction value of [S] (movement direction of head).
Press **ENTER** to enable the setting.

10 PRINT - CUT ADJ. TEST PRINT

Press **MENU** **▲** in this order to display the left figure.
Press **ENTER**.

The test pattern (P&C1) is printed and cut. If the printing and cutting lines are aligned, adjustment is complete. If further adjustment is needed, go back to Procedure 9 and fine-tune the adjustment.



Continued on the next page

Description

You perform this when printing followed immediately by cutting yields positioning for printing and cutting that is slightly misaligned. You print alignment marks, perform detection of the printed marks, and correct the discrepancy. Subtle misalignment between the printing and cutting positions may occur due to the thickness of the media or the head height. We recommend making correction to match the media you're using.

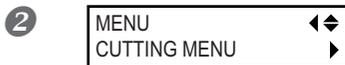
Default Setting

[F] (correction value of media feed direction): 0.00 mm
 [S] (correction value of head movement direction): 0.00 mm

Prioritize the Cutting Settings of This Machine to the Settings of the Software RIP

Procedure

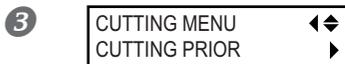
1 Press **MENU**.



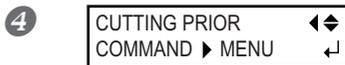
Press **▲** several times until the screen shown on the left appears.

Press **▶**.

Press **▲** twice.



Press **▶**.



Press **▲** **▼** to select "MENU."

Press **ENTER** to enable the setting.



Press **MENU** **◀** in this order to go back to the original screen.

Description

You can also make the settings for the cutting conditions using the software RIP. By default, the settings made with the software RIP take priority. To make the cutting conditions set on the machine take priority, either turn off the settings of the software RIP or make the setting described above.

Default Setting

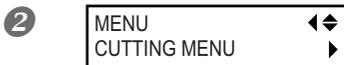
[CUTTING PRIOR]: COMMAND

Viewing the Automatic Environment Correction Function Settings

The automatic environment correction function is the function that adjusts automatically to the optimal condition of this machine according to the operating environment (humidity and temperature). Performing automatic adjustment can reduce misalignment in the scanning direction (the direction of head movement) during printing or cutting. Normally set to "ENABLE."

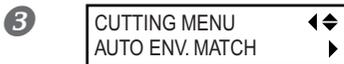
Procedure

1 Press **MENU**.



Press **▲** several times until the screen shown on the left appears.

Press **▶** and then **▲**.



Press **▶**.



Check that setting is "ENABLE."

Press **▲** **▼** to select an item to change the setting.

Press **ENTER** to enable the setting.

Current setting Setting after changed



Press **MENU** **◀** in this order to go back to the original screen.

Default Setting

[AUTO ENV. MATCH]: ENABLE

Performing Printing and Cutting Separately

To Perform Printing and Cutting Separately

You can remove the printed media and then reload it and perform cutting. Then, carry out alignment to prevent misalignment of the printing results and the cut lines. Perform this adjustment in the next Procedure.

Procedure

- 1 Print with Crop Marks.**
 - ☞ P. 144, "Printing with Crop Marks"
- 2 Align to the printed crop marks and perform cutting.**
 - You can detect the crop marks automatically or manually.
 - ☞ P. 146, "Aligning Automatically and Cutting"
 - ☞ P. 148, "Aligning Manually and Cutting"

Note: Correct misalignment of the printing and cutting positions, if applicable.

- ☞ P. 149, "Correcting Misalignment for Printing and Cutting When Using Crop Marks"

Printing with Crop Marks

Use your software RIP to make the settings for printing crop marks. For information on how to make the setting, refer to the documentation for the software RIP you're using.

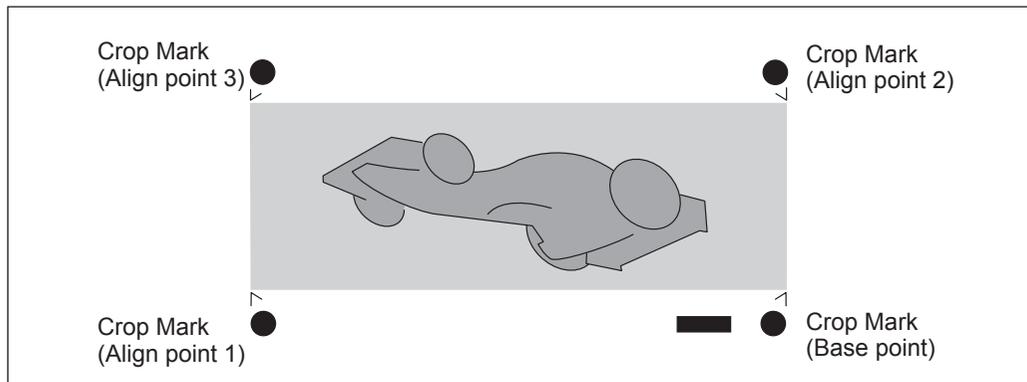
5

Part of
Practice

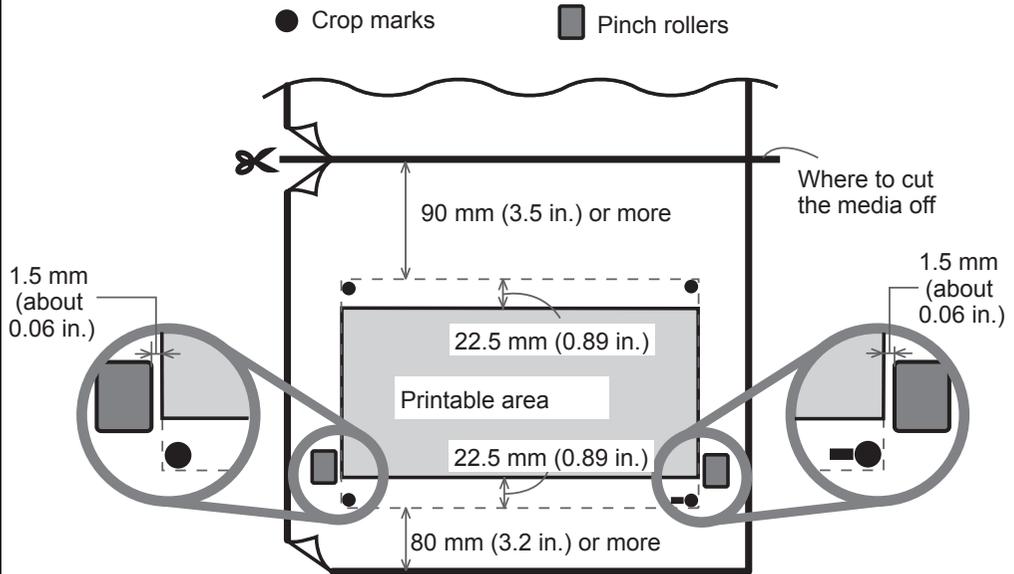
IMPORTANT!

Alignment marks and symbols drawn using a graphics program cannot be used as crop marks.

The crop marks are printed as shown in the figure.



Media Sizes Allowing Automatic Crop Mark Detection



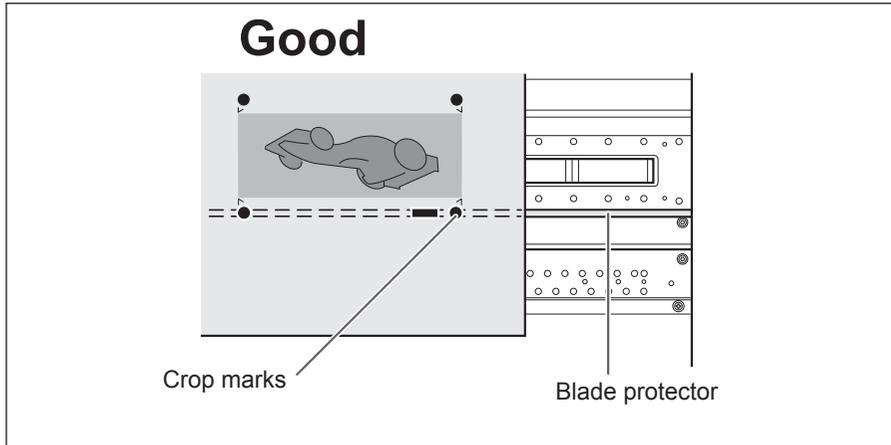
When you are printing with crop marks, set a margin of at least 90 mm (3.5 in.) before the next print-start position. You can set the margin value with the software RIP you're using. For information on how to make the setting, refer to the documentation for the software RIP you're using.

Aligning Automatically and Cutting

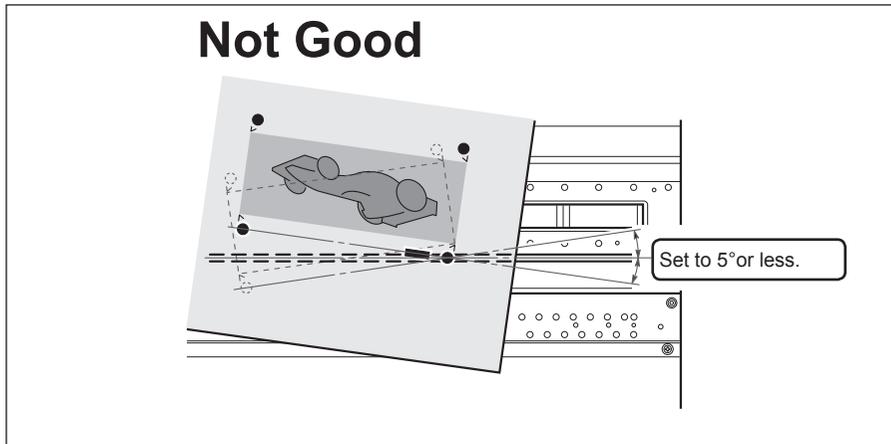
When you make the setting for reading crop marks when sending cutting data from the computer, alignment is performed with the presence or absence of crop marks determined automatically. For information on how to make the setting, refer to the documentation for the software RIP you're using.

Points for Media Setting

Place the crop marks on the blade protector.



Angled no more than 5 degrees. Otherwise alignment becomes impossible.



If Automatic Alignment Cannot Be Performed

CROPMARK ERROR
NOT FOUND

If the machine fails to detect the crop marks, the screen shown in the figure appears and operation stops. Press **ENTER** then the screen goes back to the previous screen. Reload the media, and then send the data again. Reload the media, and then send the data again.

*When you want to perform automatic alignment with lengthy media, we recommend performing output with the data separated into sizes that are as short as possible.

The crop marks cannot be detected easily because of the effects of media warping or the like. With large sizes, error due to warping and the like increases, making smooth detection impossible. In such the cases, perform alignment manually.

☞ P. 148, "Aligning Manually and Cutting"

To Quit Detection and Start Cutting

Procedure

1 Press **PAUSE** during detection of crop marks.

Crop-mark detection stops. Depending on the content of the data, some time may pass before detection actually stops.

2 **CANCEL CROPMARK
DETECTION? ↵**

Press **ENTER**.

This stops detection and starts cutting.

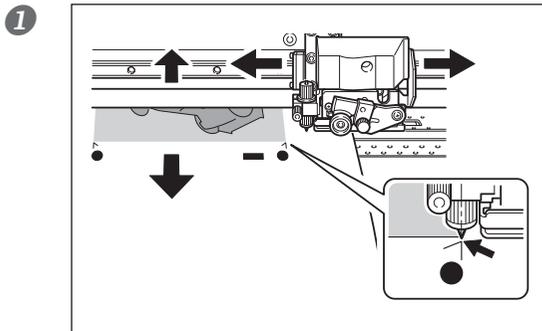
*Note: After pressing **PAUSE** in Procedure **1**, resuming detection or canceling output is also possible.

☞ P. 75, "Pausing and Canceling Output"

Aligning Manually and Cutting

Depending on the type of media, it may not be possible to detect crop marks automatically. When crop marks cannot be detected automatically, you perform alignment manually.

1. Set the base point.

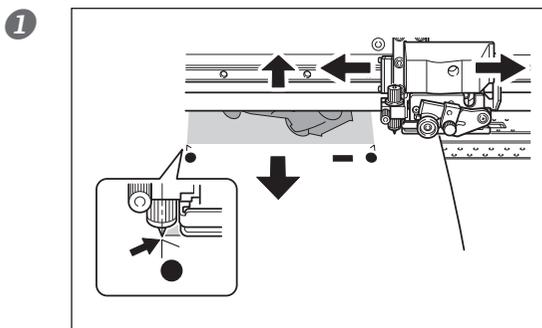


Press to align the center of the blade with the location shown in the figure.



Press .

2. Set the align points.

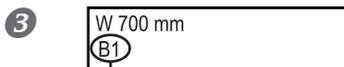


Press to align the center of the blade with the location shown in the figure.



Hold down for one second or longer.

The number of the align point you set is automatically determined.



Press .

This indicates that the base point and align point 1 have been set.

4 Repeat steps 1 through 3 to specify other align points as required.

5 Send the cutting data and perform cutting.

POINT! About Align Points

The numbers for align points are determined with reference to the location of the base point. You cannot set an align point unless you specify a base point. Redoing the setting for the base point clears any align points that have been set.

Correcting Misalignment for Printing and Cutting When Using Crop Marks

Note: When performing this setting, make sure to set the correction value of [CUTTING MENU CALIBURATION] to "0.00%."

☞ P. 139, "Performing Distance Correction During Cutting"

Procedure

1 Make sure the [AUTO ENV. MATCH] menu item is set to "ENABLE."

☞ P. 143, "Viewing the Automatic Environment Correction Function Settings"

2 Perform bidirectional adjustment.

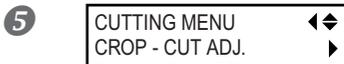
☞ P. 125, "Correcting for Misalignment in Bidirectional Printing"

☞ P. 126, "Correcting for Misalignment in Bidirectional Printing More Precisely"

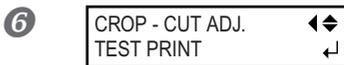
3 Press **MENU.**



Press **▲** several times to display the left figure.
Press **▶**, and then **▼**.



Press **▶**.

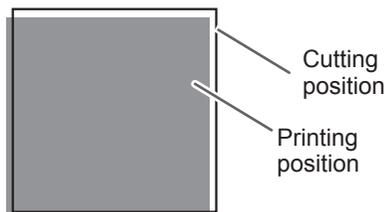


Press **ENTER**.
The test pattern (C&C1) is printed and cut.

When adjustment is needed, go on to the next Procedure.

To check the test pattern (C&C1)

Check to make sure that the printing position and the cutting position are aligned.

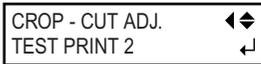


Printing position and Cutting position are misaligned.



Printing position and Cutting position are aligned.

7

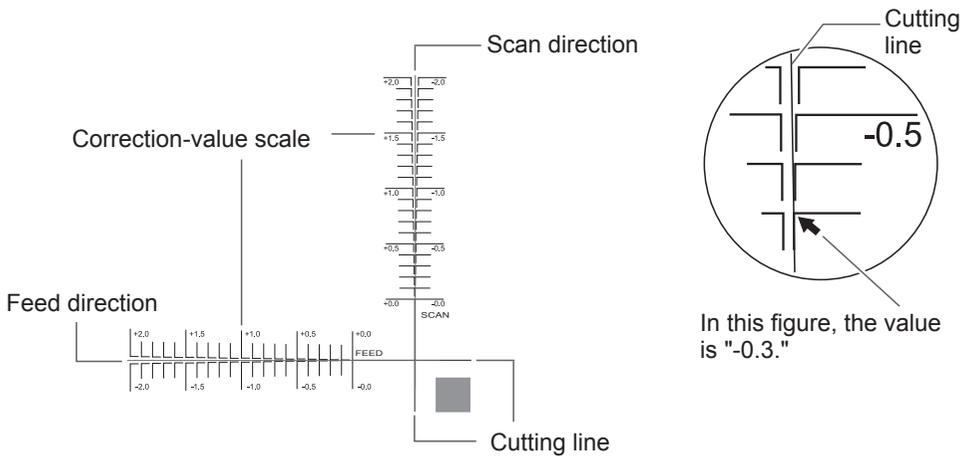


Press **▲** to display the left figure.
Press **ENTER**.

The test pattern (C&C2) is printed and cut.

To check the test pattern (C&C2)

The point where the cutting line intersects the correction-value scale is the correction value. In this figure, the value is "-0.3." Use the same method to read the value on the feed direction.



In this figure, the value is "-0.3."

5

Part of Practice

8



Press **▲** to display the left figure.
Press **▶**.

9



Press **▲** **▼** to select a correction value of [F] (feed direction of media).

Press **◀** **▶** to select a correction value of [S] (movement direction of head).

Press **ENTER** to enable the setting.

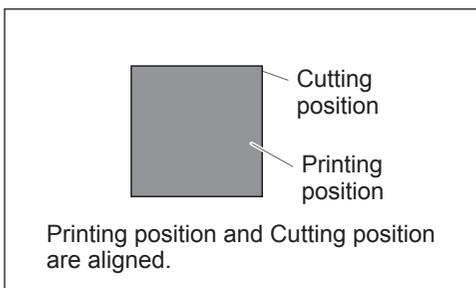
10



Press **MENU** **▲** in this order to display the left figure.

Press **ENTER**.

The test pattern (C&C1) is printed and cut. If the printing and cutting lines are aligned, adjustment is complete. If further adjustment is needed, go back to Procedure 9 and fine-tune the adjustment.



Description

Depending on the composition of the media, the positioning of printing and cutting may be misaligned even when you're using crop marks. Make corrections for misaligned printing and cutting for the media you're using.

Default Setting

[F] (feed direction): 0.00 mm
[S] (scanning direction): 0.00 mm

Switching the Ink Type(EUV←→EUV3)

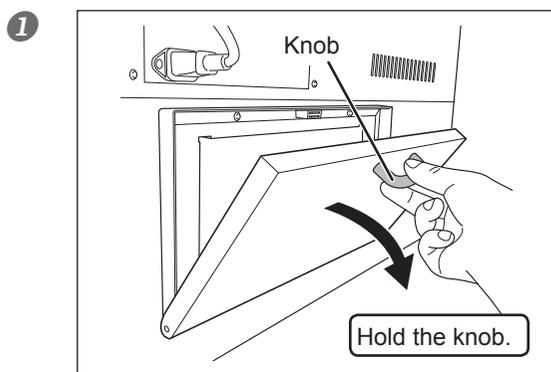
Method for Switching the Ink Type(EUV←→EUV3)

This operation requires four unused SOL INK cleaning cartridges. Have these on hand before you start.

Important Note.

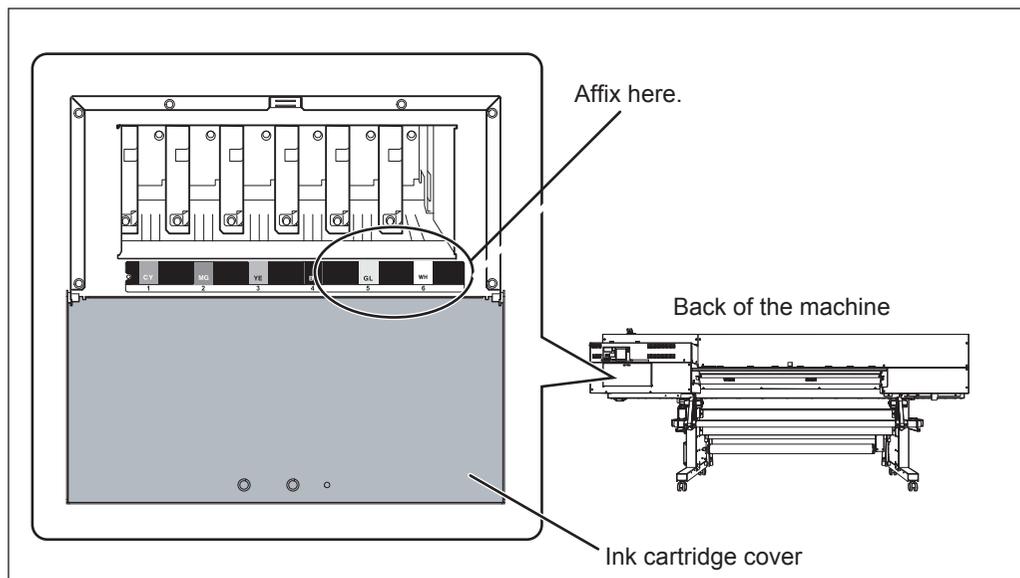
- You can only switch the ink type*1 between EUV ink and EUV3 ink.
- You cannot switch the ink mode.*2
- *1 Ink type: Indicates the type of ink that is used. Examples include EUV ink and EUV3 ink.
- *2 Ink mode: Indicates the combination of the ink colors that are used. Examples include white mode and gloss mode; the name of the special color used is included in the ink mode.

1. Affixing the Cartridge-slot Labels.



Open the ink cartridge cover.

2 If  is not affixed, affix it to the location shown in the figure.



2. Drain the ink and wash the interior.

IMPORTANT!

Insert each color ink cartridge into the slot labeled with the matching color. If you insert wrong cartridges when filling ink, the condition cannot be restored easily. Contact your authorized Roland DG Corp. dealer or us, if you filled ink with wrong cartridges inserted.

1 Press **MENU**.

2 

Press **▼** several times until the screen shown on the left appears.

Press **▶**.

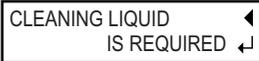
3 

Press **▲** several times until the screen shown on the left appears.

Press **▶** **▲** in this order.

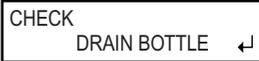
4 

Press **ENTER**.

5 

Make sure the cleaning liquid is ready.

Press **ENTER**.

6 

Discard the discharged fluid in the drain bottle.

Be sure to discard the discharged fluid.

Press **ENTER**.

7 Thereafter, follow the on-screen instructions to carry out the operations.

After cleaning has finished, the sub power is automatically switched off.

⚠ WARNING

Never put discharged fluid or ink closed to fire.

Doing so may cause the blaze.

⚠ CAUTION

To store discharged fluid temporarily, keep it in the provided drain bottle or in a durable container such as a metal can or polyethylene tank, and close the cap tightly.

Any spillage or vapor leakage may cause fire, odor, physical distress.

Store discharged fluid in a location not exposed to direct sunlight.

When temporarily storing discharged fluid in the included drain bottle, keep the drain bottle out of direct sunlight. Otherwise the discharged fluid may harden, making the drain bottle unusable.

Dispose of discharged fluid properly, in accordance with the laws in effect in your locale.

Discharged fluid is flammable and contains toxic ingredients. Never attempt to incinerate discharged fluid or discard it with ordinary trash. Also, do not dispose of it in sewer systems, rivers, or streams. Doing so may have an adverse impact on the environment.

3. Fill with ink.

1 Press the sub power button.

2 Select the ink type.

<When switching to EUV ink>



Press to select "ECO-UV."
Press .

<When switching to EUV3 ink>



Press to select "ECO-UV3."
Press .

3 Thereafter, follow the on-screen instructions to carry out the operations.

After finishing the operation, close the ink cartridge cover.

When you use VersaWorks Dual.

Be sure to perform the following operation after filling with ink. Otherwise, you cannot use VersaWorks Dual.

Procedure

1 Windows 10

Click the [Start] menu.

Click [All apps].

Click [Initialize Application] for Roland VersaWorks Dual.

Windows 8.1

Click on the [Start] screen.

Click [Initialize Application] for Roland VersaWorks Dual.

Windows 7

Click the [Start] menu.

Click [All Programs] (or [Programs]) > [Roland VersaWorks Dual] > [Initialize Application]..

2 Click [Yes] when a confirmation message for initialization of the application appears.

3 Click [OK] when a completion message for initialization of the application appears.

4 Start VersaWorks Dual.

The [Printer Settings] window is displayed. This is because the connection with the printer is initialized by performing Initialize Application.

5 Make the settings of the printer.

☞ "Printer Connection and Settings" in "Roland VersaWorks Dual Installation Guide"

When you initialize the application, the settings of Roland@NET are initialized as well. Please make the settings again.

☞ "Making the Settings for Roland@NET" in "Roland VersaWorks Dual Installation Guide"

Chapter 6

To Administrators

Output Operation Management	156
Printing a System Report.....	156
Determining What Happens When Ink Runs Out.....	156
Displaying the Amount of Media Remaining.....	157
Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed	158
Printing the Amount of Remaining Media	159
System Management of Printer	160
Setting for the Menu Language and the Units of Measurement...	160
Setting the Interval until Activation of the Sleep Mode (Power Saving Function).....	160
Viewing Information about the System of This Machine.....	161
Returning All Settings to Their Initial Values.....	162

Output Operation Management

Printing a System Report

This prints system information, including a list of setting values.

Procedure

1 Press **MENU**.



Press **▼** several times to display the left figure.
Press **▶**.



Press **▼** several times to display the left figure.
Press **ENTER**.
Start printing.



Press **MENU** **◀** in this order to go back to the original screen.

Determining What Happens When Ink Runs Out

This lets you change, according to your purpose, the operation that takes place when an ink cartridge is empty.

Procedure

1 Press **MENU**.



Press **▼** several times to display the left figure.
Press **▶**.



Press **▲** several times to display the left figure.
Press **▶** twice.



Press **▲** **▼** to select.

"STOP": Printing pauses immediately when a cartridge becomes empty.

"CONT" (continue): Printing does not stop when a cartridge becomes empty. When a cartridge becomes empty, a warning beep sounds.

Press **ENTER** to enable the setting.



Press **MENU** **◀** in this order to go back to the original screen.

Description

When "STOP" is selected, printing pauses and so colors may be uneven. Ensure a sufficient amount of remaining ink before you begin printing.

When "CONT" is selected, printing does not stop even if ink runs out completely. To replace the cartridge, wait until printing ends or press **PAUSE** to pause printing.

Default Setting

[EMPTY MODE]: STOP

Displaying the Amount of Media Remaining

You can display how much of the media in use is left. First, you set the amount of media remaining, the amount remaining is displayed at the top menu until it reaches zero.

Procedure

1 Press **MENU**.



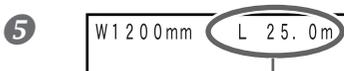
Press **▲** several times to display the left figure. Press **▶**, and then **▼**.



Press **▶**.



Press **▲** **▼** to set the current amount of media remaining. Press **ENTER** to enable the setting.



Press **MENU** **◀** in this order to go back to the original screen.

This display is updated.



If setup has not been performed, the set value flashes.

Description

If you cancel the setup such as by removing the media or raising the loading lever, the amount remaining at that time flashes on the screen.

Because the amount of media remaining is not updated automatically when you change the media, redo the setting whenever you change the media. You can also make the setting display this menu automatically whenever you change the media. See the next section, "Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed."

Note: The remaining amount that is displayed is only an estimate, and its accuracy is not assured.

Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed

Set to display  every time when a media is changed.

Procedure

1 Press .

2 

Press  several times to display the left figure.

Press , and then .

3 

Press .

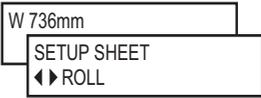
4 

Press   to select "ENABLE".

Press  to enable the setting.

If you set to "ENABLE," you must set the [EDGE DETECTION] menu to "ENABLE."

☞ P. 129, "Using Transparent Media"

5 

Press   in this order to go back to the original screen.

Description

Setting this menu to "ENABLE" can keep you from forgetting to redo the setting when you change the media. Be sure, however, also to set the [EDGE DETECTION] menu (refer to P. 129, "Using Transparent Media") to "ENABLE." When [EDGE DETECTION] is set to "DISABLE," [SHEET REMAIN] is not displayed automatically.

Default Setting

[AUTO DISPLAY]: DISABLE

Printing the Amount of Remaining Media

This prints the amount of media remaining that is displayed at the top menu.

Procedure

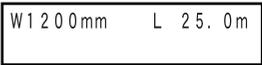
1 Press **MENU**.

2 

Press **▲** several times to display the left figure.
Press **▶**.

3 

Press **ENTER**.
Start printing.

4 

Press **MENU** **◀** in this order to go back to the original screen.

Description

You use this when you want to make a record of the remaining length of the media now in use. Printing the amount of media remaining before you change the media enables you to refer to the printed record and use the value to make the setting for the remaining amount the next time you use the media.

Note, however, that continuing by performing the next output starts the output on top of the portion where the amount of remaining media is printed. After printing the amount remaining, then before you perform the next output operation, we recommend cutting off the media.

System Management of Printer

Setting for the Menu Language and the Units of Measurement

This sets the language and units of measurement displayed on the display screen of the operation panel.

Procedure

- 1 Hold down **MENU** and switch on the sub power.
- 2  Use **▲** **▼** to select the display (menu) language.
Press **ENTER** to enable the setting.
- 3  Use **▲** **▼** to select the measurement unit for length.
Press **ENTER** to enable the setting.
- 4  Use **▲** **▼** to select to the measurement unit for temperature.
Press **ENTER** to enable the setting.

Default Setting

[MENU LANGUAGE]: ENGLISH

[LENGTH UNIT]: mm

[TEMP. UNIT]: °C

Setting the Interval until Activation of the Sleep Mode (Power Saving Function)

Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the left figure.
Press **▶**.
- 3  Press **▲** several times to display the left figure.
Press **▶** twice.
- 4  Use **▲** **▼** to make the setting.
Press **ENTER** to enable the setting.
- 5  Press **MENU** **◀** in this order to go back to the original screen.

Default Setting

[INTERVAL]: 30min

6

To
Administrators

Viewing Information about the System of This Machine

Note: For information on how to set up a network, refer to "Setup Guide."

Procedure

1 Press **MENU**.



Press **▲** several times to display the left figure.

You can view the following information.

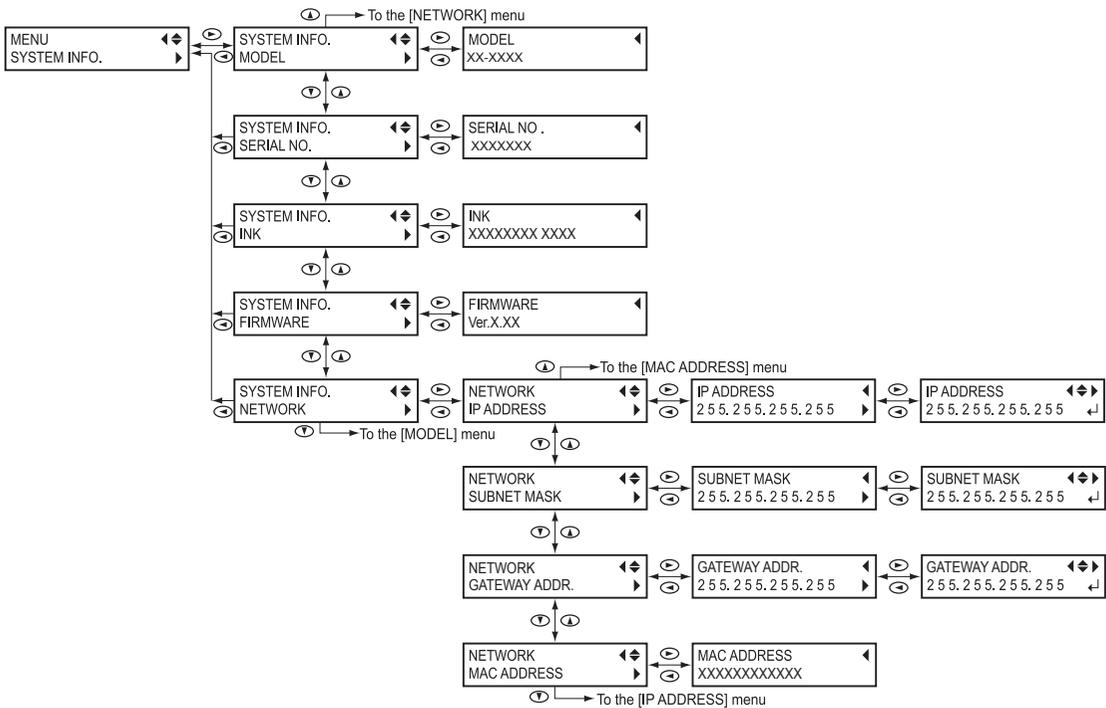
[MODEL]: Model name

[SERIAL NO.]: Serial number

[INK]: Ink type

[FIRMWARE]: Firmware version

[NETWORK]: Network configuration (IP address, etc)



Returning All Settings to Their Initial Values

This menu returns all settings to the same as their factory defaults. However, the settings for [MENU LANGUAGE], [LENGTH UNIT], and [TEMP. UNIT] are not returned to the factory defaults.

Procedure

1 Press **MENU**.

2

MENU	◀	▶
SUB MENU		▶

Press **▼** several times to display the left figure.

Press **▶**.

3

SUB MENU	◀	▶
FACTORY DEFAULT		↵

Press **▼** several times to display the left figure.

Press **ENTER** to execute.

Chapter 7

Read this chapter whenever you face a problem. (FAQ)

The Machine Doesn't Run	164
The Printer Unit Doesn't Run.....	164
Cannot Cut off the Media.....	165
The Media Take-up System Doesn't Run	166
Attractive Printing or Cutting is Impossible	167
Printed Results Are Coarse or Contain Horizontal Stripes	167
Colors Are Unstable or Uneven.....	168
The Media Becomes Soiled When Printed.....	169
Cutting Is Misaligned or Skewed	170
Media Jam Occurs	171
The Media Jams	171
The Media Cannot Be Taken Up Smoothly.....	172
The Media Cannot Be Taken Up Smoothly	172
Media Feed is Not Smooth	173
Media Wrinkles or Shrinks.....	173
Media Feed Is Not Straight.....	173
Media Feed Is Not Smooth.....	174
The Print Heads Stopped Moving	175
What to Do First.....	175
If the Heads Still Do Not Move	175
A Message Appears	178
An Error Message Appears.....	180

The Machine Doesn't Run

The Printer Unit Doesn't Run

Is the power switched on?

Switch on the printer's main power, then press the sub power switch and make sure the sub power switch lights up.

☞ P. 35, "Switch On"

Is **SET UP** illuminated?

Output is not performed when **SET UP** is not illuminated. Pull back the loading lever, close the front cover, and press **SET UP**.

Is the cover open?

Close front cover, side cover, and maintenance cover.

Is the top menu displayed?

Top menu

W 1346 mm

If the top menu isn't displayed, output doesn't start even when data is sent from the computer. To go to the top menu, press **MENU**, then press **◀**.

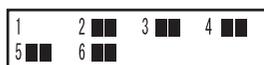
☞ P. 73, "Getting Ready to Receive Data from a Computer"

Is **PAUSE** illuminated?

When **PAUSE** lights up, operation is paused. To resume, press **PAUSE**. **PAUSE** goes dark and outputting resumes.

☞ P. 75, "Pausing and Canceling Output"

Has ink run out?



When printing data is sent while the screen shown in the figure is displayed, a message appears and a warning beep sounds. At the same time, operation pauses. When the ink cartridge is replaced with a new one, printing or cutting starts.

☞ P. 91, "How to Replace Ink Cartridges"

☞ P. 156, "Determining What Happens When Ink Runs Out"

Is a message displayed on the screen?

☞ P. 178, "A Message Appears"

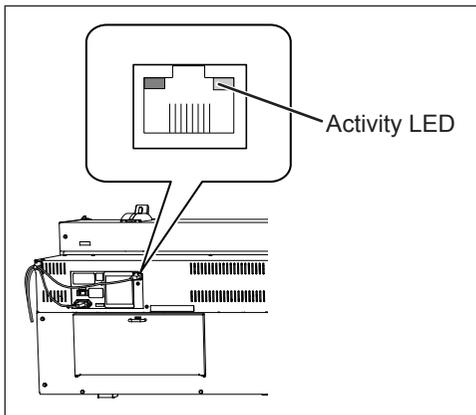
☞ P. 180, "An Error Message Appears"

Is the cable connected?

Connect the cable securely.

☞ "Setup Guide"

Is the Activity LED lighted?



If the activity LED for the Ethernet connector is not lighted, it means that a correct connection to the network has not been made. Make sure the network routing is suitable. Try connecting the computer and the machine to the same hub, or connecting them directly using a crossover cable. If this makes it possible to perform output, it means the problem is in the network itself.

Are the network settings correct?

If output is impossible even though the activity LED is on, make sure the IP address and other settings are correct. The settings on both the machine and the computer must be appropriate. Redo the settings, checking to ensure that the IP address doesn't conflict with the IP address for another device on the network, that the port setting for the software RIP specifies the IP address set on the machine, that the settings have no typing errors, and for other such problems.

- ☞ "Setup Guide"
- ☞ P. 161, "Viewing Information about the System of This Machine"

Did the software RIP end abnormally?

Make sure the software RIP is running correctly, then switch the sub power switch off and back on.

- ☞ "Roland VersaWorks Dual Installation Guide"

Is the temperature of the room too low?

Use the machine in an environment where the temperature is 20 to 32°C (68 to 90°F).

Cannot cut off the media

Is the separating knife mounted?

If the separating knife is not mounted, you cannot cut off the media.

- ☞ P. 118, "Replacing the Separating Knife"

The Media Take-up System Doesn't Run

Is the take-up unit cable connected?

Connect the take-up unit cable to the machine. To perform take-up automatically when output is in progress, also make the setting for the AUTO switch.

- ☞ "Setup Guide,"
- ☞ P. 81, "Use Conditions of the Media Take-up System"

Is the auto switch in the [OFF] position?

Change the auto switch in accordance with the direction of taking up the media.

Attractive Printing or Cutting is Impossible

Printed Results Are Coarse or Contain Horizontal Stripes

Does the print head show dot drop-out?

Carry out a printing test and make sure no dot drop-out occurs. If dot drop-out is present, perform head cleaning.

- ☞ P. 67, "Printing Tests and Normal Cleaning"
- ☞ P. 99, "When Normal Cleaning Is Not Effective"
- ☞ P. 108, "The Concentration and Dot Drop-Out of the White Ink"

Is the head height appropriate?

Printing when the [HEAD HEIGHT] menu item is set to "HIGH" is coarser than when set to "LOW." Keep this set to "LOW" except when changing it is necessary, such as when you're using thick media.

- ☞ P. 128, "Adjusting Head Height to Match Media Thickness"

Have you carried out feed correction?

Large misalignment in the amount of feed of the media may result in printing that seems coarse or contains horizontal stripes. Either make the setting on the software RIP to match the type of media you're using, or make the setting for correction on the printer.

- ☞ P. 126, "Alleviating Horizontal Bands and the Like (feed correction function)"

Have you carried out bidirectional correction?

When you are performing bidirectional printing, use the [ADJUST BI-DIR] menu item to carry out correction. The optimal adjustment value may vary, depending mainly on the thickness of the media. Set or select an adjustment value that is suited to the media. When further correction is required, such as when adjustment made using [SIMPLE SETTING] does not enhance printing, use [DETAIL SETTING] to make correction.

- ☞ P. 125, "Correcting for Misalignment in Bidirectional Printing"
- ☞ P. 126, "Correcting for Misalignment in Bidirectional Printing More Precisely"

Is the print mode suitable?

Try a higher-quality print mode. Depending on the media, uneven colors may occur in high-quality print modes, and the results are also greatly affected by the settings of the software RIP (such as the selected color profile). Make settings suited to the media you're using.

Is the printer installed in a level and stable location?

Never install the machine in a location where it is tilted or where it may wobble or experience vibration. Also make sure that the print heads are not exposed to moving air. These factors may lead to missing dots or reduced printing quality.

Is the printer installed in a location out of direct sunlight?

Never install in a location exposed to direct sunlight. Doing so may result in dot drop-out or other problems with reduced printing quality, or may even result in malfunction.

Is the media loaded and set up correctly?

If the media is not loaded and set up correctly, media feed may not be smooth, or printing may be adversely affected. Make sure the media is loaded and set up correctly.

- ☞ P. 36, "Loading Media"
- ☞ P. 174, "Media Feed Is Not Smooth"

Are the settings for the [PRESET] menu item appropriate?

If the settings selected with the [PRESET] menu item are not suitable for the type of media, printing may be adversely affected. Choose settings optimized to the media you're using.

- ☞ P. 55, "Setup of Media"
- ☞ P. 122, "Fully Utilizing Preset Function"

Colors Are Unstable or Uneven

Did you shake the ink cartridges gently before installing them?

Shake new cartridges gently before you install them.

Did you shake the white ink cartridges gently before installing them?

The ingredients in white ink tend to settle. Prolonged use of this machine may cause the concentration of the white ink to decrease.

- ☞ P. 94, "Maintenance of Ink Cartridges"
- ☞ P. 108, "The Concentration and Dot Drop-Out of the White Ink"

Is the media wrinkled?

If the media is wrinkled and comes loose from the platen, colors may be uneven or printing quality may suffer.

- ☞ P. 174, "Media Feed Is Not Smooth"

Was printing paused partway through?

When printing is paused, the coloring at the seam may be altered when printing resumes. Avoid pausing printing. By default, printing pauses when ink remaining inside the machine runs out. Before you perform lengthy printing, check the amount of ink remaining in the ink cartridges. Printing may also pause when data is not sent from the computer quickly enough. We recommend not performing any other tasks with the computer while printing is in progress.

Is the printer installed in a level and stable location?

Never install the machine in a location where it is tilted or where it may wobble or experience vibration. Also make sure that the print head is not exposed to moving air. These factors may lead to missing dots or reduced printing quality.

Are the operating parameters set to appropriate values?

Depending on the settings for such menu items as [FULL WIDTH S] and [PERIODIC CL.], uneven colors may occur. If the settings have been changed, try restoring them to their default values.

- ☞ P. 130, "Speeding Up Output for Narrow Media"
- ☞ P. 132, "Preventing Soiling of the Media and Dot Drop-out"

Is the printer being used in a location subject to severe changes in the operating environment?

Large fluctuations in temperature or humidity while printing is in progress may cause the colors to change partway through. When you're performing printing, use the machine in a location where temperature and humidity are stable.

Are the settings for the [PRESET] menu item appropriate?

If the settings selected with the [PRESET] menu item are not suitable for the type of media, printing may be adversely affected. Choose settings optimized to the media you're using.

- ☞ P. 122, "Fully Utilizing Preset Function"

The Media Becomes Soiled When Printed

Does the print head contact the media?

The height of the print head may be too low. Also, if the media is not loaded and set up correctly, it may wrinkle or come loose and strike the heads.

- ☞ P. 128, "Adjusting Head Height to Match Media Thickness"
- ☞ P. 174, "Media Feed Is Not Smooth"

Is the print head dirty?

The following may cause ink to drip on the media during printing.

- Buildup of fibrous dust (lint) around the heads.
- Ink transferred to the heads due to rubbing against the media.

If this happens, perform the manual cleaning. We recommend carrying out periodic head cleaning.

- ☞ P. 101, "Maintenance that Should Be Performed More Than Once a Month"
- Too Low Humidity.

Use this machine in the environment of 35 to 80 %RH (non condensation).

Are the pinch rollers or the media clamps dirty?

Periodically clean them.

- ☞ P. 97, "Cleaning"

Cutting Is Misaligned or Skewed

Is the media loaded and set up correctly?

If the media is not loaded and set up correctly, or media feed is not smooth, cutting may be adversely affected. Make sure the media is loaded and set up correctly.

- ☞ P. 36, "Loading Roll Media"
- ☞ P. 174, "Media Feed Is Not Smooth"

Are the settings for the cutting conditions appropriate?

Misalignment or skewing may occur if the cutting speed is too fast or the blade force is too high. Try changing the cutting conditions. With media having a strong adhesive layer, the adhesive layer reattaches to itself immediately after cutting. However, if a cutting test shows that the peeling of the media and the blade traces on the backing paper are optimal, then the media is being cut properly. Be careful not to make the blade force too high.

- ☞ P. 133, "Fully Utilizing Cutting Function"

Is the length of output too long?

For printing followed immediately by cutting in particular, the longer the page length (that is, the longer the distance the media is returned after printing), the greater is the chance of misalignment occurring. It is a good idea to keep the size of each single page to the minimum necessary.

Are you using media that exhibits large expansion and contraction?

When you're performing printing followed immediately by cutting, misalignment occurs if the media expands or contracts. If this happens, try performing printing with crop marks, then setting the base point and one or more align points and performing cutting. This corrects for expansion and contraction of the media.

Is [AUTO ENV. MATCH] set to the "DISABLE" setting?

The printing and cutting positions may become misaligned due to ambient temperature or humidity. Setting [AUTO ENV. MATCH] to "ENABLE" performs matching to the environment to correct for misalignment.

- ☞ P. 143, "Viewing the Automatic Environment Correction Function Settings"

Are the settings for the [CALIBRATION] menu item (in the [CUTTING MENU] menu item) correct?

When you're performing printing followed immediately by cutting, go to [CUTTING MENU] and set the CALIBRATION value to "0.00."

- ☞ P. 139, "Performing Distance Correction During Cutting"

Are the pinch rollers placed on the proper locations?

Be sure to place the pinch Rollers on the grit rollers. If the pinch rollers are not placed on the proper locations, misalignment of the media may occur.

- ☞ P. 36, "Loading Media"

Media Jam Occurs

The Media Jams

If an error message is displayed because the media has jammed, immediately correct the problem. Failure to do so may damage the print head.

- P. 182, "[MOTOR ERROR TURN POWER OFF]"

Is the media warped or wrinkled?

Many factors can cause warping or wrinkling. Refer to the following and correct the problem.

- P. 174, "Media Feed Is Not Smooth"

Is the height of the print head too low?

Try raising the heads higher. Media may inevitably warp or wrinkle slightly, so adjust the height of the heads to take this into account.

- P. 128, "Adjusting Head Height to Match Media Thickness"

The Media Cannot Be Taken Up Smoothly

The Media Cannot Be Taken Up Smoothly

Is media feed unstable?

Various factors can make media feed unstable. Refer to the following and correct the problem.

☞ P. 174, "Media Feed Is Not Smooth"

Is the paper tube installed correctly?

Securely insert the paper tube onto the end caps. If the paper tube is not attached correctly, it may spin without traction and fail to take up the media.

☞ Setup Guide

Is the paper tube bent or sagging?

Media cannot be taken up smoothly when the paper tube is bent or sagging.

Are you using the included paper tube?

For the paper tube, use the included item. Using something other than the included item may result in spinning without traction or other problems that impede media take-up.

☞ P. 80, "About the Paper Tube"

Media Feed is Not Smooth

A variety of problems can occur if the media feed is not smooth. This can cause such problems as poor printing quality, contact with the media by the print head, misaligned positioning, or media jams. Take action as follows.

Media Wrinkles or Shrinks

Is the media loaded and set up straight and securely?

Feed is not smooth when the media is not straight or is tensioned unevenly on the left and right. Reload the media.

☞ P. 36, "Loading Media"

Was loaded media allowed to stand for some time?

Media may shrink or wrinkle if it is heated for an extended time. When printing ends, switch off the sub power or remove the media.

Are the media clamps mounted?

Be sure to mount the media clamps when printing on the media which is less than 0.5 mm thick.

Is the temperature of room too low?

Use this machine in an environment having an ambient temperature of 20 to 32°C (68 to 90°F). If used in the environment where the temperature is below 20°C, the media may get wrinkled depending its type or width.

Is the using media deflected?

If using the deflected media, it cause winkle of the media.

Is the humidity of the room too high?

Use this machine in the environment of 35 to 80 %RH (non condensation).

Media Feed Is Not Straight

Is the media loaded and set up straight and securely?

Feed is not smooth when the media is not straight or is tensioned unevenly on the left and right. Reload the media.

☞ P. 36, "Loading Media"

Media Feed Is Not Smooth

Do the media or the shafts strike some other object?

Make sure the media and the shafts do not touch anything else. This may affect output, even when feed appears to be smoothly

☞ P. 36, "Loading Media"

Is the media too thick?

Media that is too thick may not only cause unstable feed, but may scrape the print head, resulting in malfunction. Never use such media.

Are the grit rollers dirty?

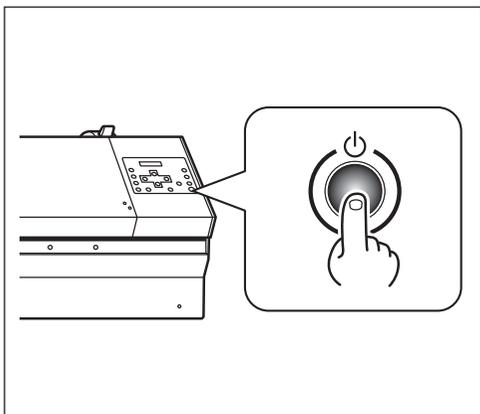
Check to make sure the grit rollers are free of buildup of foreign material such as media scraps.

☞ P. 97, "Cleaning"

The Print Heads Stopped Moving

If the print-head carriage stops over the platen, take action immediately to prevent the heads from drying out.

What to Do First



Switch the sub power off, then back on again.
If the media is jammed, then also remove the media.
If the print-head carriage moves to the standby position (the right side of the main unit), it means the operation has ended successfully.

If The Heads Still Do Not Move

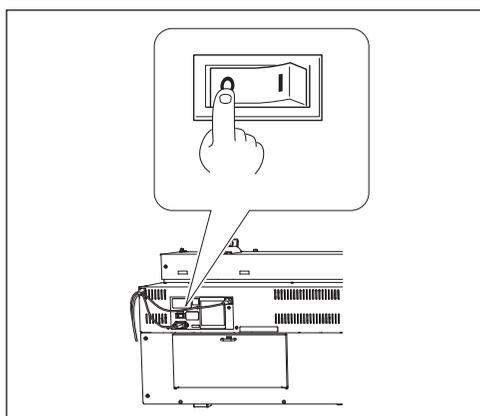
Try switching off the main power, then again switching on the main power, followed by the sub power.

If the Heads Still Do Not Move

If the heads still do not move, carry out the following emergency response measure, then contact your authorized Roland DG Corp. dealer.

Procedure

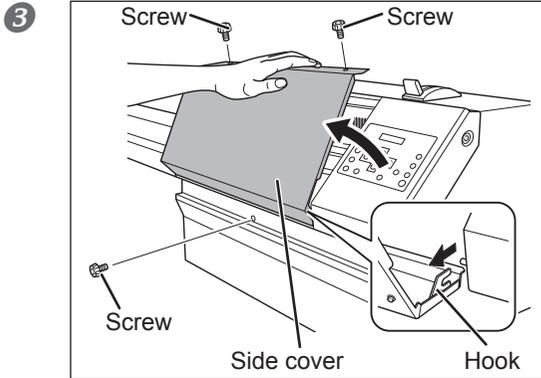
1



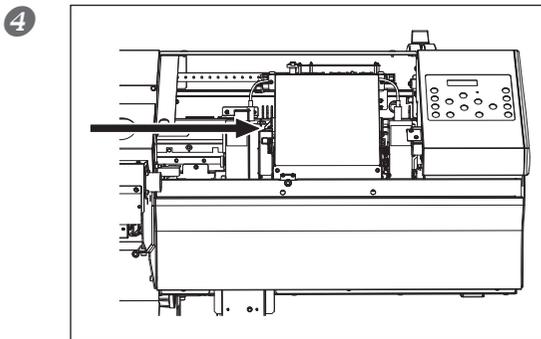
Switch off the main power.

2

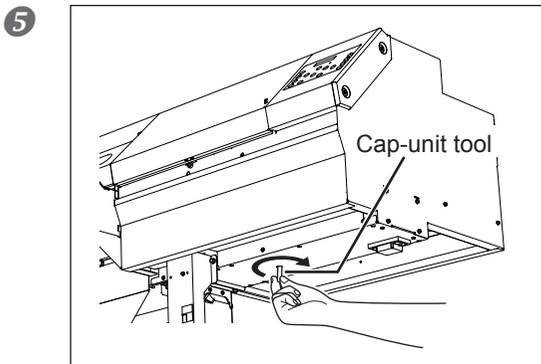
Open the front cover.



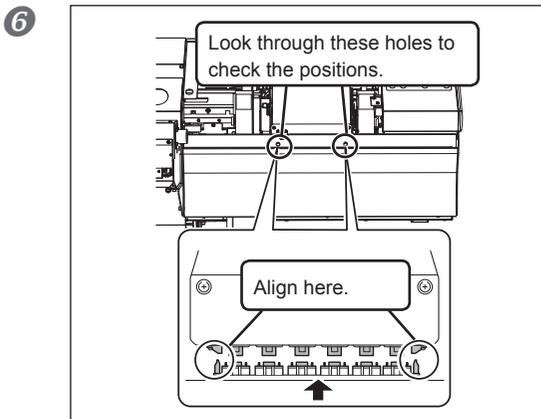
Detach the side cover.



Gently move the print heads by hand as far as the standby position.

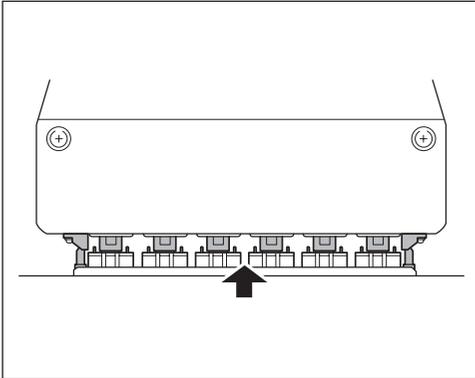


Insert the cap-unit tool into the hole at the bottom of the machine and turn gently. The cap unit rises.



Make the guides at the edges of the print heads line up with the guides at the edges of the cap unit.

7



Turn the cap-unit tool until the print heads make contact with the cap unit.

8

When the heads make contact with the cap unit, turn the cap-unit tool one or two turns more.

Make sure the print heads are capped tightly.

A Message Appears

These are the main messages that appear on the machine's display to prompt correct operation. They do not indicate any error. Follow the prompts and take action accordingly.

[1 ■ 2 ■ 3 ■ 4 ■ 5 ■ 6 ■]

Only a small amount of ink remains. Replace the cartridge indicated by the flashing number with a new cartridge.

[PRESS THE POWER KEY TO CLEAN]

This appears when the machine has been unused for about one month. Switch on the sub power once a month.

☞ P. 120, "When Not in Use for a Prolonged Period"

[CIRCULATING INK]

The white ink is being circulated inside the machine. This is automatically performed to clear the precipitation of the white ink. Wait until the displayed message changes.

[SET CARTRIDGE]

Insert the ink cartridge indicated by the flashing number. This message appears at times such as during ink cartridge replacement.

[REMOVE CARTRIDGE]

Remove the ink cartridge indicated by the flashing number. This message appears at times such as during ink cartridge replacement.

[CLOSE THE COVER (FRONT COVER, SIDE COVER or MAINTENANCE COVER)]

Close the front cover, side cover, maintenance cover. For safety, the carriage does not operate while a cover is open.

[SET CL-LIQUID]

Insert the SOL INK cleaning cartridge indicated by the flashing number. This message appears at times such as during head cleaning.

[REMOVE CL-LIQUID]

Remove the SOL INK cleaning cartridge indicated by the flashing number. This message appears at times such as during head cleaning.

[END OF THE SHEET]

The trailing edge of the media was detected during operation. Press any button on the operation panel to clear the message. Load new media.

[SHEET NOT LOADED PRESS SETUP KEY]

Load media and press . This message appears when an attempt to perform a printing test was made while no media was loaded.

[INSTALL DRAIN BOTTLE]

Check whether the drain bottle is installed. Install the drain bottle, then press **ENTER** .

[CHECK DRAIN BOTTLE]

This appears when a certain amount of discharged fluid collects in the drain bottle. To clear the message, press **ENTER** . If this screen appears, go to the [DRAIN BOTTLE] menu and discard the discharged fluid in the bottle.

☞ P. 95, "Disposing of Discharged fluid"

[SET HEAD HEIGHT TO xxx]

The height of the print heads is lower than the height specified on the computer. The heads move to a location where you can operate the height-adjustment lever. Adjust to the displayed height, then press **ENTER** .

[REMOVE MEDIA CLAMPS]

This appears when media cutoff is attempted without first removing the media clamps. The media cutoff starts when **ENTER** is pressed after the media clamps are removed. Pressing **◀** while this message is displayed quits cutoff.

[TIME FOR MAINTENANCE]

The time has come to perform the manual cleaning. After verifying, press **ENTER** .

☞ P. 102, "Performing Manual Cleaning"

[TIME FOR WIPER REPLACE]

It is time to replace the wipers. After verifying, press **ENTER** .

☞ P. 112, "Replacing the Wiper"

An Error Message Appears

This describes the error messages that may appear on the machine's display, and how to take action to remedy the problem. If the action described here does not correct the problem, or if an error message not described here appears, contact your authorized Roland DG Corp. dealer .

[TURN POWER OFF AND SET INK MODE]

The sub power is turned on with the ink mode unset.

Turn off the sub power. Select the ink mode, and then turn on the sub power.

☞ "Setup Guide"

[ALIGN POINT POSITION INVALID]

An attempt was made to set an align point at a location where the setting cannot be made.

No align point can be set when the angle of the base point and the align point is too large. Reload the media correctly, so that the angle is minimized, then set the base point and the align point again to match the crop marks.

☞ P. 146, "Aligning Automatically and Cutting"

[CARRIAGES ARE SEPARATED]

The cutting carriage and the print-head carriage were improperly disconnected.

A problem such as a media jam occurred, impeding correct operation. Operation cannot be continued. Switch the sub power off, then back on.

[CAN'T PRINT CROP CONTINUE?]

The size of the data including the crop marks is larger than the printing or cutting area of the loaded media.

To continue performing output without correcting this, press **ENTER** . At this time, the portion extending beyond the printing or cutting area and the crop marks are not printed. To stop output, stop sending data from the computer, then raise the loading lever. Make the printing or cutting area wider, such as by replacing the media with a larger piece of media or by changing the positions of the pinch rollers, then send the data again.

The size of the data being output is too small.

Make the scanning-direction (movement direction of head) size of the data at least 65 mm (2-9/16 in). To continue performing output without correcting this, press **ENTER** . At this time, the data is output without printing the crop marks. To stop output, stop sending data from the computer, then hold down **SET UP** for one second or longer. Change the size of the data, then send the data again. There is no limitation in the size of the data in the media-feed direction.

[CROPMARK ERROR NOT FOUND]

Automatic detection of crop marks could not be accomplished.

Load the media at the correct position and perform detection of crop marks again. Depending on the media, it may not be possible to detect crop marks automatically. If repeating automatic crop-mark detection results in an error again, then perform manual crop-mark detection.

☞ P. 144, "Performing Printing and Cutting Separately"

[TEMPERATURE IS TOO HIGH **°C]

The temperature of the location where the machine is installed has risen above the ambient temperature at which the machine can operate.

Operation cannot be continued. Switch off the sub power. The displayed temperature is the current ambient

temperature of the installation location. Bring the installed location to a temperature at which operation is possible (20 to 30°C) and allow the machine to come to room temperature, then turn on the power.

[SERVICE CALL xxxx]

An unrecoverable error occurred, or part replacement that must be performed by a service technician is required.

Note the number displayed, then switch off the sub power. After you switch off the power, inform your authorized Roland DG Corp. dealer of the number that appeared on the display screen.

[SHEET TOO SMALL CONTINUE?]

The size of the data is larger than the printing or cutting area of the loaded media.

To continue performing output without correcting this, press **ENTER**. At this time, the portion extending beyond the printing or cutting area is not output. To stop output, stop sending data from the computer, then hold down **SET UP** for one second or longer. Make the printing or cutting area wider, such as by replacing the media with a larger piece of media or by changing the positions of the pinch rollers, then send the data again.

[SHEET SET ERROR SET AGAIN]

****SET UP** was pressed even though no media is loaded.**

Press any key to clear the error. Load media and pull back the loading lever, then press **SET UP**.

☞ P. 36, "Loading Roll Media"

[EDGE DETECTION] is set to "ENABLE," but transparent media was loaded.

Flip the loading lever down to the rear, set the [EDGE DETECTION] menu item to "DISABLE," then reload the media.

☞ P. 129, "Using Transparent Media"

The loaded media is too small.

Press any key to clear the error. Replace with media of usable size.

[TEMPERATURE IS TOO LOW **°C]

The temperature of the location where the machine is installed has fallen below the ambient temperature at which the machine can operate.

Operation cannot be continued. Switch off the sub power. The displayed temperature is the current ambient temperature of the installation location. Bring the installed location to a temperature at which operation is possible (20 to 30°C)(68 to 90°F) and allow the machine to come to room temperature, then turn on the power.

[DATA ERROR CANCELING...]

Output was stopped because a problem was found in the data received.

Operation cannot be continued. Check whether the data contains errors. Also, check for a problem with the connector cable or the computer, and redo the operation from the step of loading the media.

[PINCHROLL ERROR LOWER PINCHROLL]

****SET UP** was pressed without first lowering the pinch rollers.**

Pull back the loading lever, then press **SET UP**.

The pinch rollers are lifted up during output.

Output is discontinued. Do not move the loading lever during output.

[PINCHROLL ERROR INVALID RIGHT (LEFT) POS]

The right (or left) pinch roller is positioned at a location where it does not pinch the media.
Flip the loading lever down to the rear, and then move the right (or left) pinch roller to the correct location.

☞ P. 36, "Loading Media"

[WRONG CARTRIDGE]

A cartridge that cannot be used was installed.

Remove the cartridge to clear the error. Use a cartridge of the specified type.

[WRONG HEAD IS INSTALLED]

An unusable print head is installed.

Switch off the sub power. After you switch off the power, inform your authorized Roland DG Corp. dealer.

[AVOIDING DRY-UP TURN POWER OFF]

The print heads were forced to standby position to prevent them from drying out.

Operation cannot be continued. Switch the sub power off, then back on. Opening the front cover while printing is in progress causes an emergency stop. Never allow the print heads to remain in this state.

[MOTOR ERROR TURN POWER OFF]

A motor error occurred.

Operation cannot be continued. Switch off the sub power. Next, eliminate the cause of the error, then immediately switch on the sub power. If the machine is allowed to stand with the error uncorrected, the print heads may dry out and become damaged. This error may be caused by such factors as a mistake in loading the media, a media jam, or an operation that pulls the media with excessive force.

The media has jammed.

Carefully remove the jammed media. The print heads may also be damaged. Perform head cleaning, then perform a printing test and check the results.

The media was pulled with excessive force.

Excessive tension was applied to the media, and additional action is necessary to recover from this state. First, move the loading lever to the rear and adjust the media to create a small amount of slack, then switch on the sub power.

[CANCELED FOR MOTOR PROTECTION]

Either of the following menu items is to be started in a row within 10 minutes:

- PUMP UP
- HEAD WASH
- INK RENEWAL
- POWERFUL CLEANING

Press any key other than the sub power switch to cancel the error message. Allow the machine to stand for approximately 10 minutes before resuming operation. These menu items require the pump motor to turn for a long time. When performing these menu items in a row, take an interval of at least 10 minutes to prevent damage to the machine due to the overheating of pump motor. However, you may continuously start "POWERFUL CLEANING" without an interval of at least 10 minutes. Doing so will not cause the error message to appear.

Chapter 8

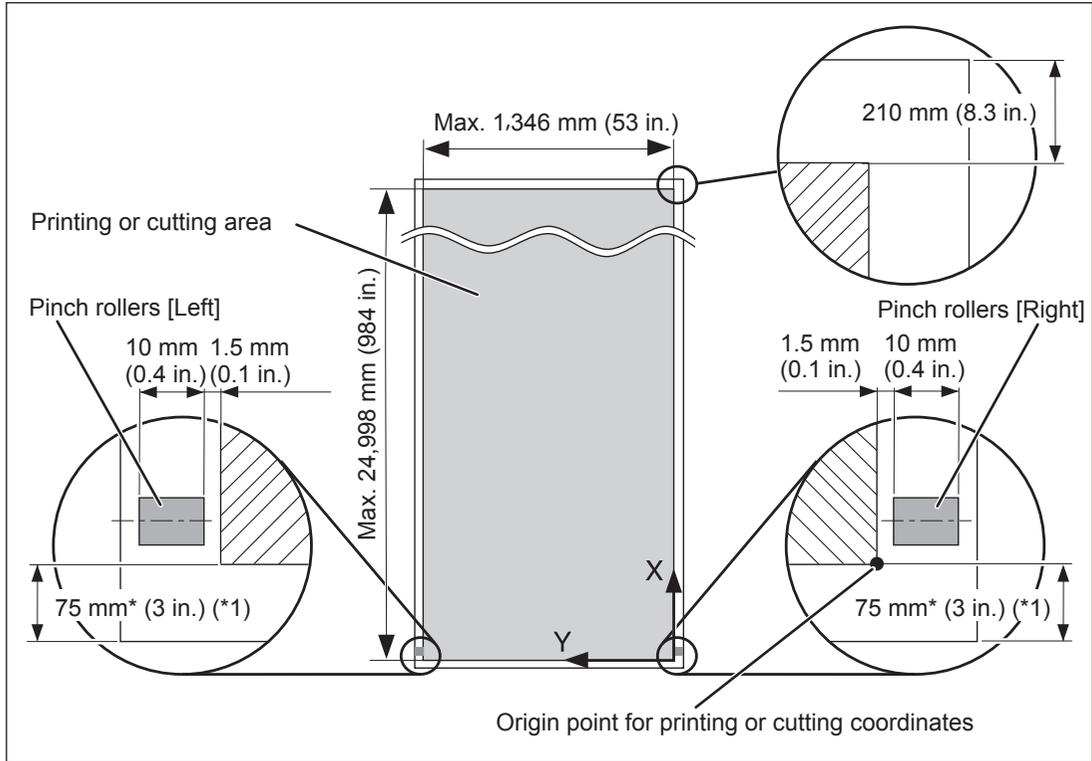
Main Specifications

Printing/Cutting Area	184
Maximum Area.....	184
Maximum Area When Using Crop Marks	185
Media-cutoff Location During Continuous Printing	186
About the Blade	187
Locations of the Power Rating and Serial Number Labels	188
Specifications	189

Printing/Cutting Area

Maximum Area

The printing or cutting area along the scanning direction (the direction of the head movement) is determined by the position of the left and right pinch rollers.

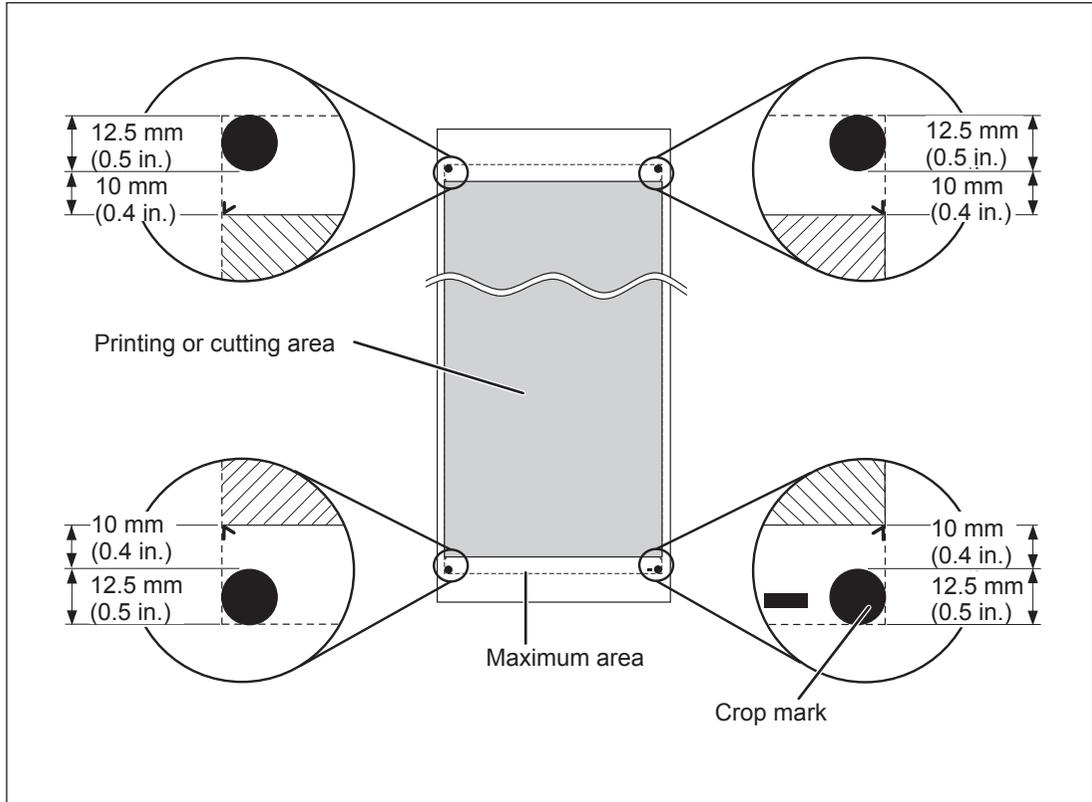


(*1)

- If "EDGE" or "PIECE" is selected in the [SETUP SHEET] menu.
- Margin length required by the media take-up and feed systems is approximately 1,100 mm (43 in.).

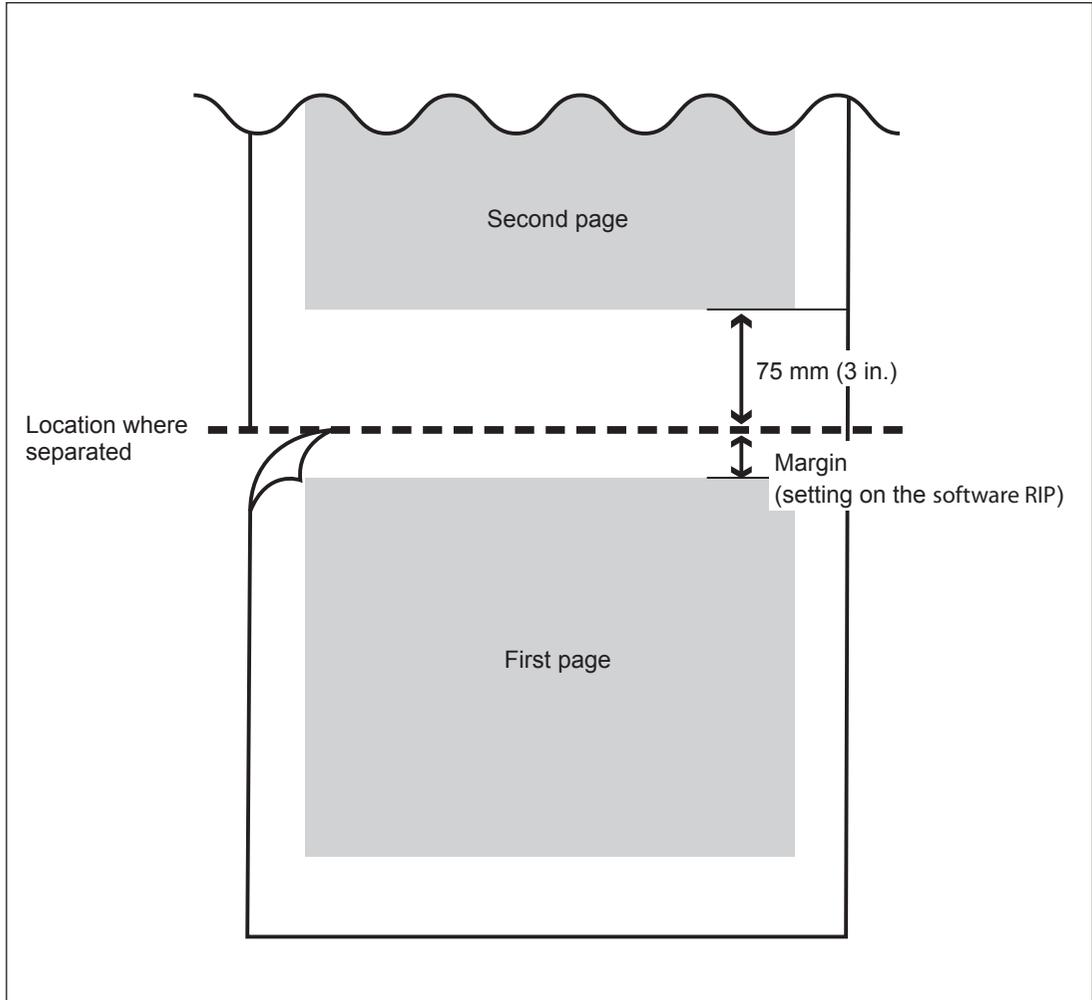
Maximum Area When Using Crop Marks

When crop marks are used, the printing or cutting area is reduced from the maximum area by an amount equal to the crop marks.



Media-cutoff Location During Continuous Printing

When crop marks are used, the printing or cutting area is reduced from the maximum area by an amount equal to the crop marks.



About the Blade

The cutting conditions and the service life of the blade change according to the media and the operating environment, even when you're using identical blades. The service life also differs according to the type of blade. A rough guide is shown below.

Blade	Media	Blade force	Amount of blade offset	Blade life* (general guide)
ZEC-U1005	General signage vinyl	50 to 150 gf	0.25 mm	8,000 m
ZEC-U5025	General signage vinyl	30 to 100 gf	0.25 mm	4,000 m
	Fluorescent vinyl	120 to 200 gf	0.25 mm	4,000 m
	Reflective vinyl	100 to 200 gf	0.25 mm	4,000 m

When uncut areas remain even when the blade force is increased to a value that is higher by 50 to 60 gf than the values shown in this chart, then replace the blade.

*The values for "Blade life" are estimates for when an identical type of media is used.

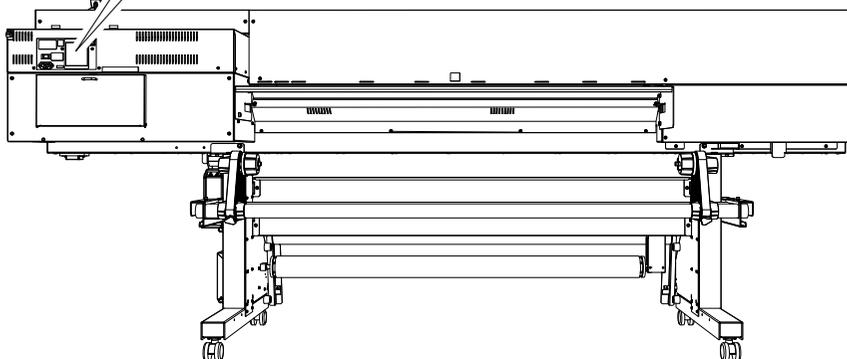
Locations of the Power Rating and Serial Number Labels

Serial Number

This is required when you seek maintenance, servicing, or support. Never peel off the label.

Power Rating

Use an electrical outlet that meets the requirements for voltage, frequency, and amperage given here.



Specifications

		LEC-540
Printing/cutting method		Piezo ink-jet method/media-moving method
Acceptable media	Width	260 to 1,371 mm (10.2 to 54 in.)
	Thickness	Maximum 1.0 mm (39 mil) with liner, for printing Maximum 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting
	Roll outer diameter	Maximum 210 mm (8.3 in.)
	Roll weight	Maximum 30 kg (66 lb.)
	Core diameter (*1)	76.2 mm (3 in.) or 50.8 mm (2 in.)
Printing/cutting width (*2)		Maximum 1,346 mm (53 in.)
Ink cartridges	Types	ECO-UV (EUV, EUV3, EUV4) ECO-UVS
	Colors	ECO-UV (EUV, EUV3, EUV4) (Cyan, Magenta, Yellow, Black, White, Gloss) ECO-UVS (Cyan, Magenta, Yellow, Black, White)
Ink-curing unit		Dual UV LED Lamp
Printing resolution (dots per inch)		Maximum 1,440 dpi
Acceptable tool		Roland CAMM-1 series compatible
Cutting speed		10 to 600 mm/s (10 to 300 mm/s in media-feed direction)
Blade force		30 to 300 gf
Blade offset compensation		0.000 to 1.500 mm (0 to 0.0591 in.)
Software resolution (when cutting)		0.025 mm/step (0.000984 in./step)
Distance accuracy (when printing) (*3) (*4) (*9)		Error of less than $\pm 0.3\%$ of distance traveled, or ± 0.3 mm, whichever is greater
Distance accuracy (when cutting) (*3) (*9)		Error of less than $\pm 0.4\%$ of distance traveled, or ± 0.3 mm, whichever is greater When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than $\pm 0.2\%$ of distance traveled, or ± 0.1 mm, whichever is greater
Repetition accuracy (when cutting) (*3) (*5) (*9)		± 0.1 mm or less
Alignment accuracy for printing and cutting (*3) (*6) (*9)		± 0.5 mm or less
Alignment accuracy for printing and cutting when reloading media (*3) (*7) (*9)		Error of less than $\pm 0.5\%$ of distance traveled, or ± 3 mm, whichever is greater
Media take-up system	Roll outer diameter	Maximum 210 mm (8.3 in.)
	Roll weight	Maximum 30 kg (66 lb.)
Interface		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving function		Automatic sleep feature
Power requirements		AC 100 V to 240 V $\pm 10\%$, 5.5 A, 50/60 Hz
Power consumption	During operation	490 W
	Sleep mode	15.3 W
Acoustic noise level	During operation	64 dB (A) or less
	During standby	40 dB (A) or less
Dimensions (with stand)		When not using front table : 2,925 (W) \times 910 (D) \times 1,260 (H) mm (115.2 (W) \times 35.8 (D) \times 49.6 (H) in.) (*8) When using front table : 2,925 (W) \times 1,120 (D) \times 1,260 (H) mm (115.2 (W) \times 44.1 (D) \times 49.6 (H) in.)
Weight (with stand)		225 kg (496 lb.)
Environment	Power on	Temperature: 20 to 32°C (68 to 90°F) (22°C [72°F] or more recommended) , Relative humidity: 35 to 80% (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), Relative humidity: 20 to 80% (no condensation)
Accessories		Exclusive stands, power cord, blade, blade holder (XD-CH2), media clamps, replacement blade for separating knife, software RIP (Roland VersaWorks Dual) , User's Manual, etc.

*1

The media holder of this machine is exclusive use for the media of paper tube (core) inner diameter 3 inches. To use 2 inches media, the optional media flanges are required.

*2

The length of printing or cutting is subject to the limitations of the program.

*3

- Media type: Media specified by Roland DG Corp.
- Temperature: 25°C (77°F), humidity: 50%
- Roll media must be loaded correctly.
- Applicable when all pinch rollers available to the media width are used.
- Side margins: 25 mm or more for both the left and right margins
- Front margin: 35 mm or more
- Excluding expansion/contraction of the media
- All correction or adjustment function of this machine has been made properly.

*4

- With Roland PET film, print travel: 1 m

*5

- [PREFEED] menu item must be set to "ENABLE."
- Range for assured repetition accuracy
- Length 3,000 mm

*6

- Provided that media length is under 3,000 mm
- Excludes the effects of slanted movement and of expansion and contraction of the media.

*7

- Data size: 1,000 mm in the media-feed direction, 1,346 mm in the carriage-movement direction.
- No lamination.
- Automatic detection of crop marks at 4 points when media is reloaded.
- During cutting, [PREFEED] menu item must be set to "ENABLE."
- Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media.

*8

During operation of the media take-up system, an operating range of approximately 80 millimeters back from the front edge of the dancer roller is required.

*9

Applicable when neither the front table nor the rear table is used.

For China

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板	×	○	×	○	○	○
头部	×	○	○	○	○	○
壳体、底架	×	○	○	○	○	○
电源	×	○	×	○	○	○
其他 (电缆、附件等)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T26572-2011 标准规定的限量要求以下。
 ×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572-2011 标准规定的限量要求。

环保使用期限



此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

For EU Countries



This product must be disposed of separately at your local waste recycling center. Do not dispose of in household waste bin.



Lever dit product in bij een lokaal afvalverzamelpunt. NIET met normaal huishoudelijk afval afvoeren.



Bitte führen Sie dieses Produkt separat Ihrer örtlichen Entsorgungsstelle zu. Bitte nicht mit dem normalen Hausmüll entsorgen.



Dette Produkt skal smides særskilt væk på den lokale affalds- og genbrugsstation. Må ikke smides ud sammen med almindeligt husholdningsaffald.



Ne jetez pas le produit avec vos ordures ménagères. Portez-le dans un centre recyclage des déchets.



Tätä tuotetta ei saa hävittää normaalien talousjätteiden mukana, vaan se on toimitettava ongelmajätteiden keräilypisteeseen hävitettäväksi.



Questo prodotto deve essere smaltito negli appositi contenitori per la raccolta differenziata, non buttare nel cestino dei rifiuti casalinghi.



Produkten måste kasseras separat på din lokala återvinningscentral. Släng inte produkten tillsammans med hushållssoporna.



Este producto debe devolverse al centro de reciclaje más cercano a su domicilio para su correcta eliminación. No lo tire a la basura.



Μην πετάξετε το αντικείμενο αυτό στο καλάθι των απορριμμάτων. Αφαιρέστε τις μπαταρίες και προσκομίστε το στο τοπικό κέντρο ανακύκλωσης.



Deite fora separadamente este produto no seu centro de reciclagem local. Não o deite fora no seu caixote do lixo.



This product is using GNU General Public License (GPL) / GNU Lesser General Public License (LGPL) software. You have the right to acquire, modify, and distribute the source code for this GPL/LGPL software. You can obtain the GPL/LGPL source code used in this product by downloading it from the following website.

URL: <http://www.rolanddg.com/gpl/>

Roland DG Corp. has licensed the MMP technology from the TPL Group.



1000018388

R8-170809