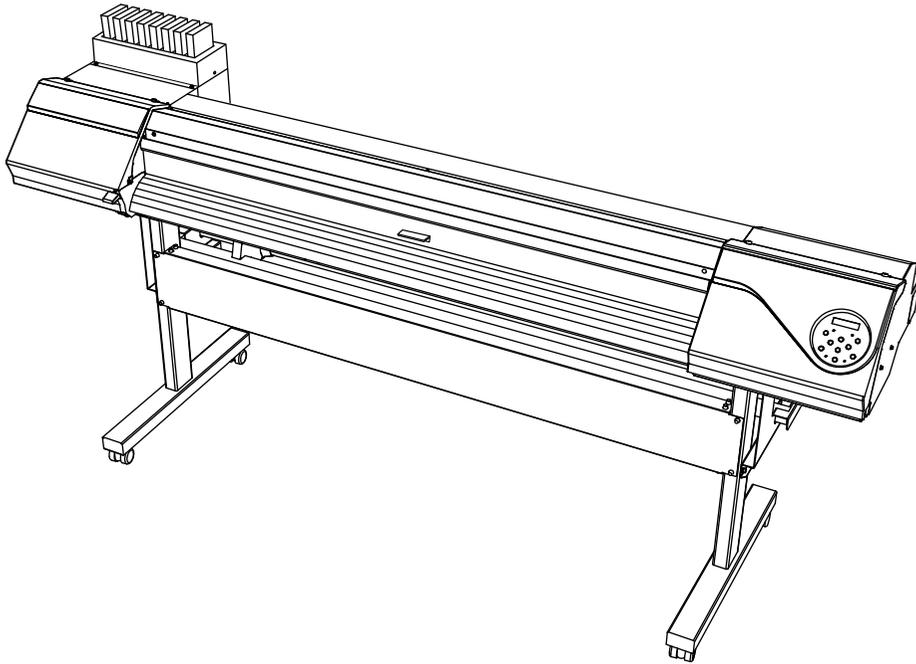


VersaArt

RA-640

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 document and the specifications of this product are subject to change without notice.
- The documentation 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.

Roland DG Corporation

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.

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.

For California

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm.

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 EU Countries



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

The authorized representative in the EU:
Roland DG EMEA, S.L.
Parc Tecnologic del Valles C/ Ceramistes, 6 08290 Cerdanyola del Valles / Barcelona Spain

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.

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.

Contents

Contents	1
Chapter 1 Machine Highlights	5
Part Names and Functions	6
Printer Unit.....	6
Operation Panel	8
Menu List.....	9
Main Menu.....	9
Language and Unit Menu.....	12
Function Menu	12
⚠ To Ensure Safe Use.....	13
⚠ Pour utiliser en toute sécurité	20
Important Notes on Handling and Use	28
Chapter 2 Basic Operation.....	29
Prepare the Media.....	30
Type of Media	30
Usable Media	31
Switch On!.....	32
Switch On!.....	32
The Power-saving Feature (Sleep Mode)	32
Loading Media	33
Loading Roll Media	33
Loading the Sheet Media	39
Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely).....	41
Setup of Media	43
About [Media Setting] menu	43
Setup of Media ([Media Setting] menu).....	43
Outputting.....	49
Setting the Output-start Location.....	49
Printing Tests and Cleaning	50
Getting Ready to Receive Data from a Computer	51
Starting Output.....	53
Pausing and Canceling Output	54
Cutting Off the Media.....	54
Switch Off.....	56
Switch Off.....	56
Chapter 3 Maintenance:For always using the printer in the best condition	57
Checking for Remaining Ink and Replacing Cartridges	58
Checking for Remaining Ink	58
How to Replace Ink Cartridges	59
Maintenance that Should Be Performed Daily	60
Disposing of Discharged Ink	60
Cleaning.....	62
About Care and Maintenance of Print Head.....	63
When Normal Cleaning Is Not Effective	64
Introduction	64
Medium/ Powerful Cleaning	64
Super Cleaning.....	65

Maintenance that Should Be Performed More Than Once a Month	67
When Manual-Cleaning Becomes Necessary	67
Manual Cleaning of Print Head	68
When Problems Such As Dot Drop-out are Not Cleared Up	73
When Problems Such As Dot Drop-out are Not Cleared Up	73
Replacing Consumable Parts	76
Replacing the Wiper	76
Replacing the Felt Wiper	79
Replacing the Separating Knife	82
When Not in Use for a Prolonged Period	84
Keep Performing Maintenance	84
Alarm Feature	84
Chapter 4 Part of Practice	85
Fully Utilizing Preset Function	86
Saving Various Settings as a Name Assigned Preset	86
Loading a Saved Preset	88
Fully Utilize the Media Heating System	89
What Is the Media Heating System?	89
Making the Temperature Setting for the Media Heating System	89
Control of Media Heating System during Preheating	91
Drying the Trailing Edge of the Printing Area on the Dryer	91
Setting the Drying Time after Printing	92
Fully Utilizing the Correction Function	93
Correcting for Misalignment in Bidirectional Printing	93
Correcting for Misalignment in Bidirectional Printing More Precisely	94
Alleviating Horizontal Bands and the Like (feed correction function)	94
Accommodating to the Types and Condition of Media	96
Adjusting Head Height to Match Media Thickness	96
Using Transparent Media	97
Printing Hard-to-dry Media	99
Using the Media Easy to be Winkled/Hard to be Fed	99
Speeding Up Output for Narrow Media	100
Expanding the Printing Area by Reducing the Margins	101
Preventing Soiling of the Media and Dot Drop-out	102
Using Sticky Media	103
Using Media Take-up System	104
Using Media Take-up System	104
Chapter 5 To Administrators	105
Output Operation Management	106
Printing a System Report	106
Determining What Happens When Ink Runs Out	106
Displaying the Amount of Media Remaining	107
Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed	108
Printing the Amount of Remaining Media	109
System Management of Printer	110
Setting for the Menu Language and the Units of Measurement	110

Setting the Interval until Activation of the Sleep Mode (Power Saving Function)	110
Viewing Information about the System of This Machine	111
Returning All Settings to Their Initial Values	112
Chapter 6 Read this chapter whenever you face a problem. (FAQ)	113
Printer Does Not Start Up!	114
The Printer Unit Doesn't Run	114
The Media Heating System Doesn't Warm Up	115
Cannot cut off the media	115
Attractive Printing is Impossible	116
Printed Results Are Coarse or Contain Horizontal Stripes	116
Colors Are Unstable or Uneven	117
The Media Becomes Soiled When Printed	118
Media Jam Occurs!	119
The Media Jams	119
Media Feed is Not Smooth	120
Media Wrinkles or Shrinks	120
Media Feed Is Not Straight	121
Media Feed Is Not Smooth	121
Print Head Stops Moving. Why?	122
What to Do First	122
If the Heads Still Do Not Move	122
A Message Appears	124
An Error Message Appears	126
Chapter 7 Main Specifications	129
Printing Area	130
Maximum Area and Margins	130
The Media-cutoff Location During Continuous Printing	131
Locations of the Power Rating and Serial Number Labels	132
Specifications	133

This document is a common user's manual for RA-640 water-based ink model and RA-640 solvent-based ink model.

Company names and product names are trademarks or registered trademarks of their respective holders.

Chapter 1

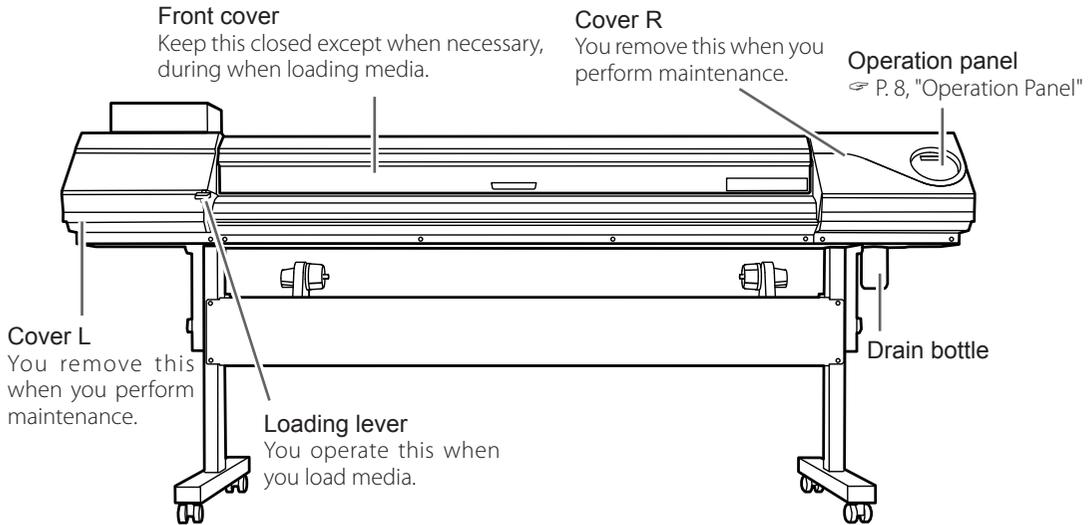
Machine Highlights

Part Names and Functions	6
Printer Unit.....	6
Operation Panel.....	8
Menu List	9
Main Menu.....	9
Language and Unit Menu	12
Function Menu.....	12
 To Ensure Safe Use.....	13
 Pour utiliser en toute sécurité	20
Important Notes on Handling and Use	28

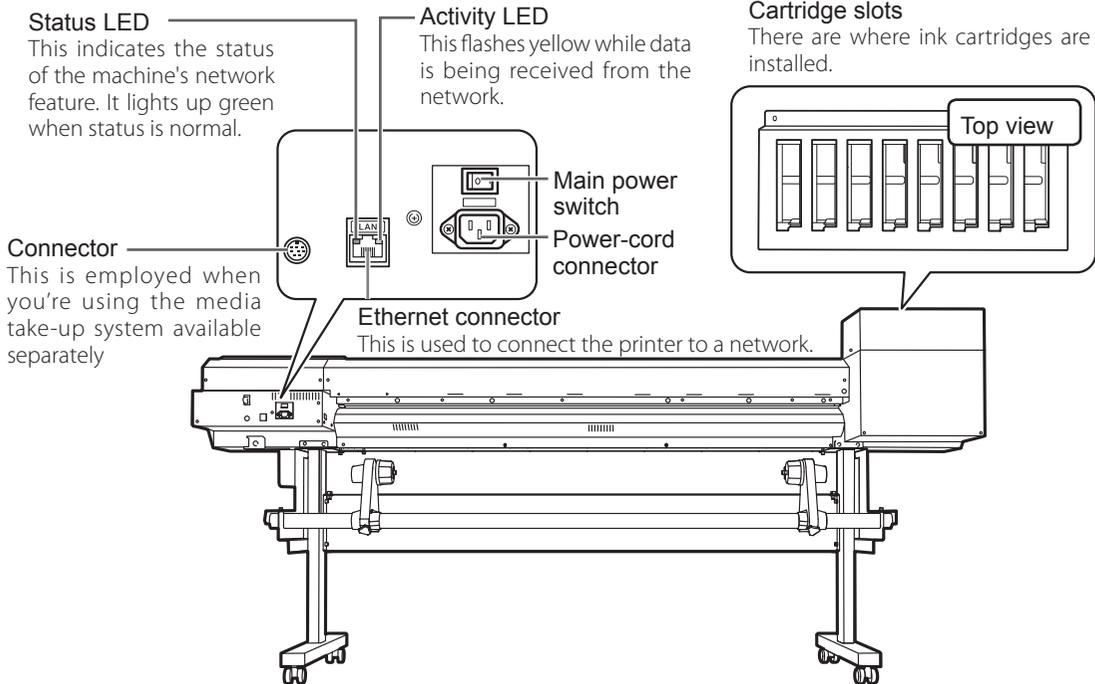
Part Names and Functions

Printer Unit

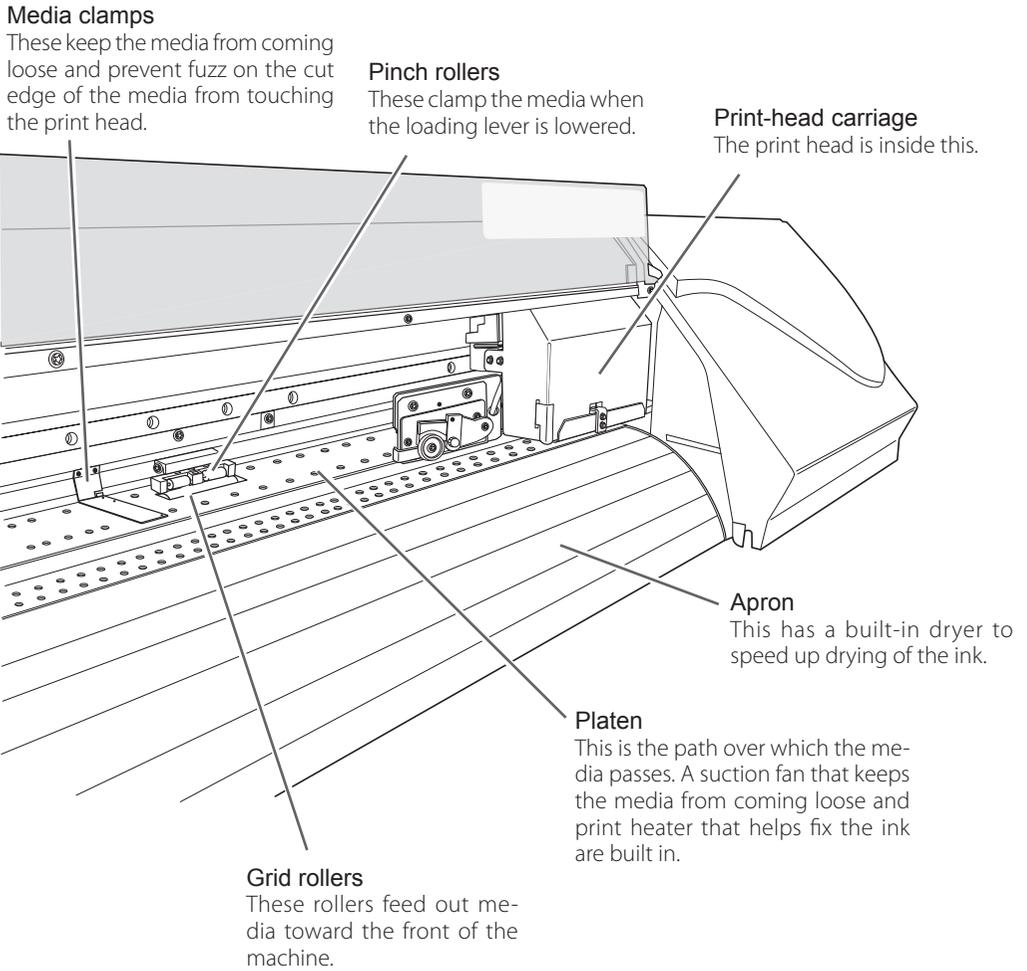
Front



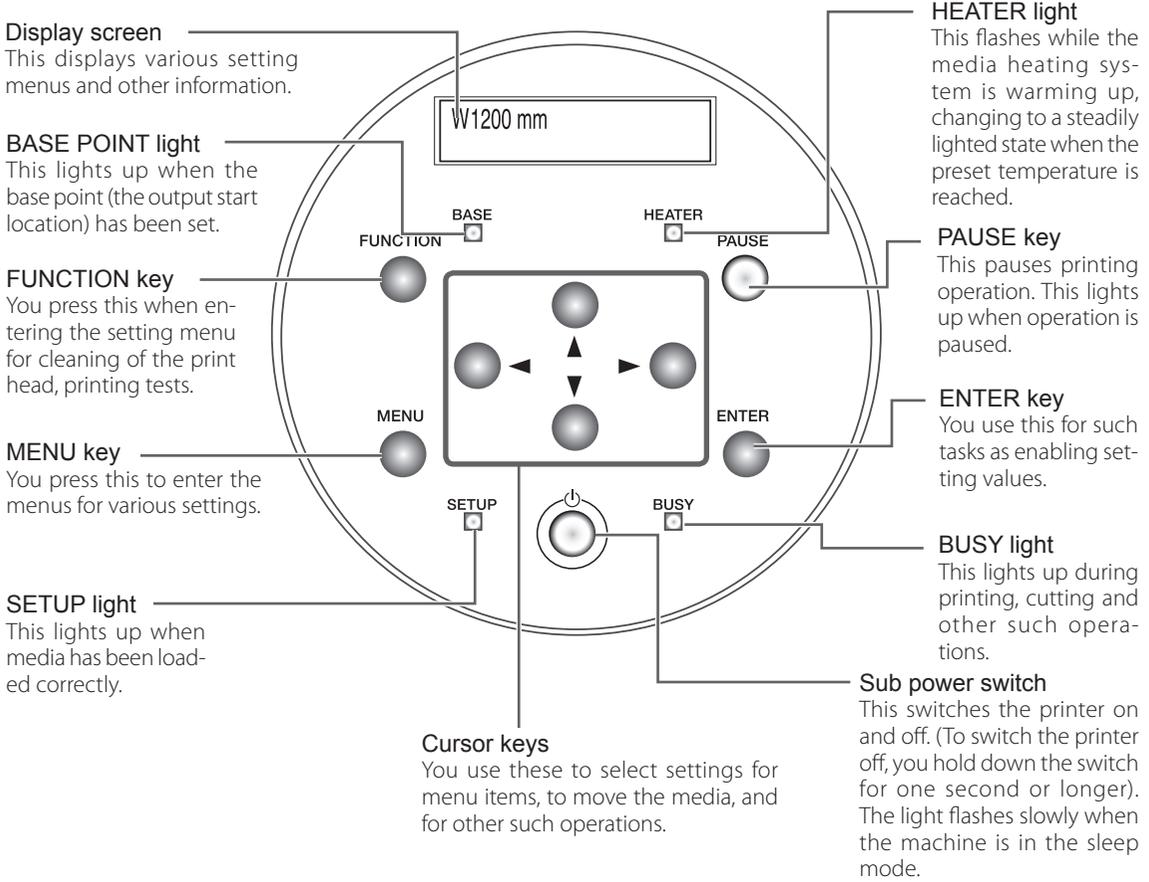
Rear



Front cover inside/print head periphery



Operation Panel



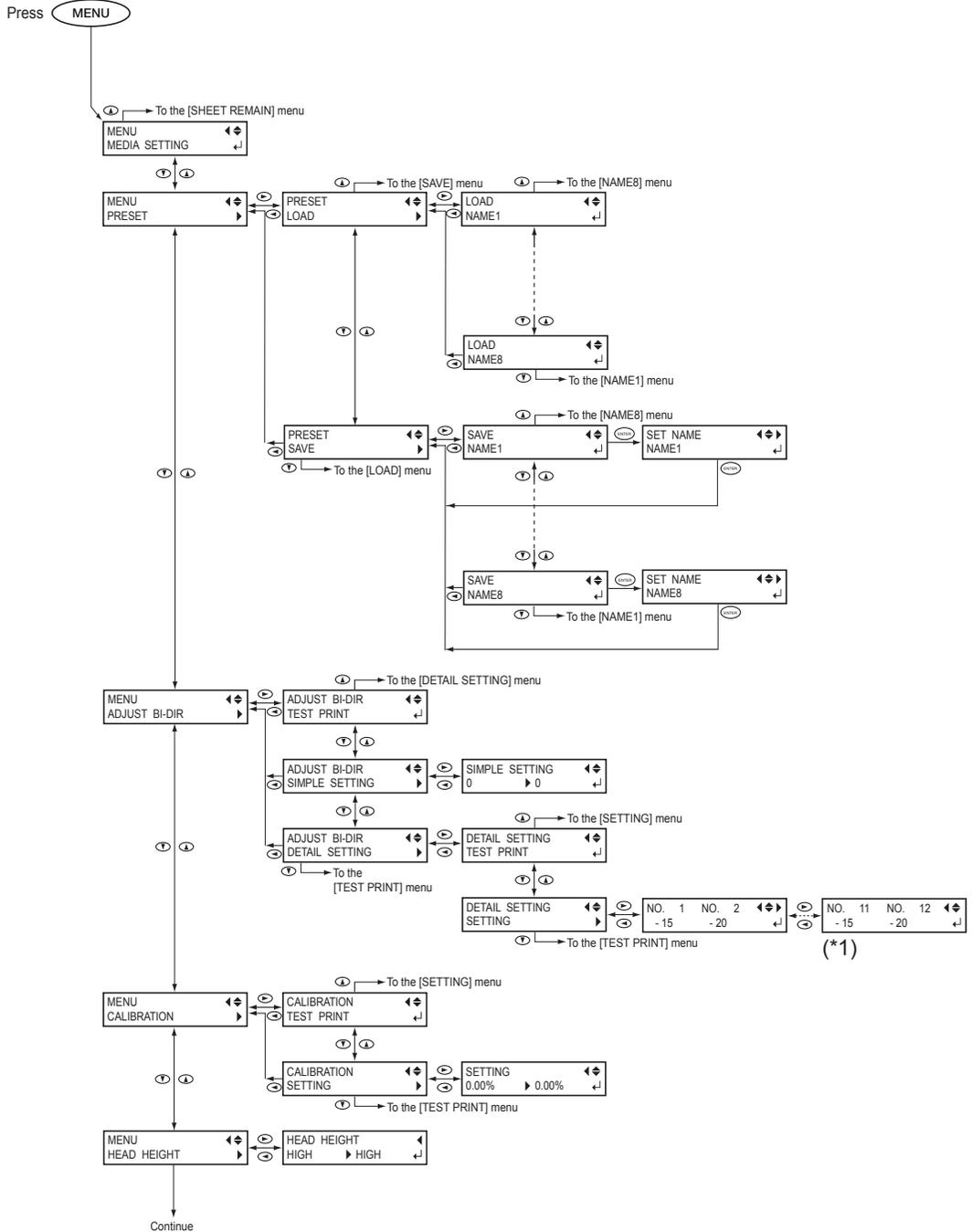
Panel Notation

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

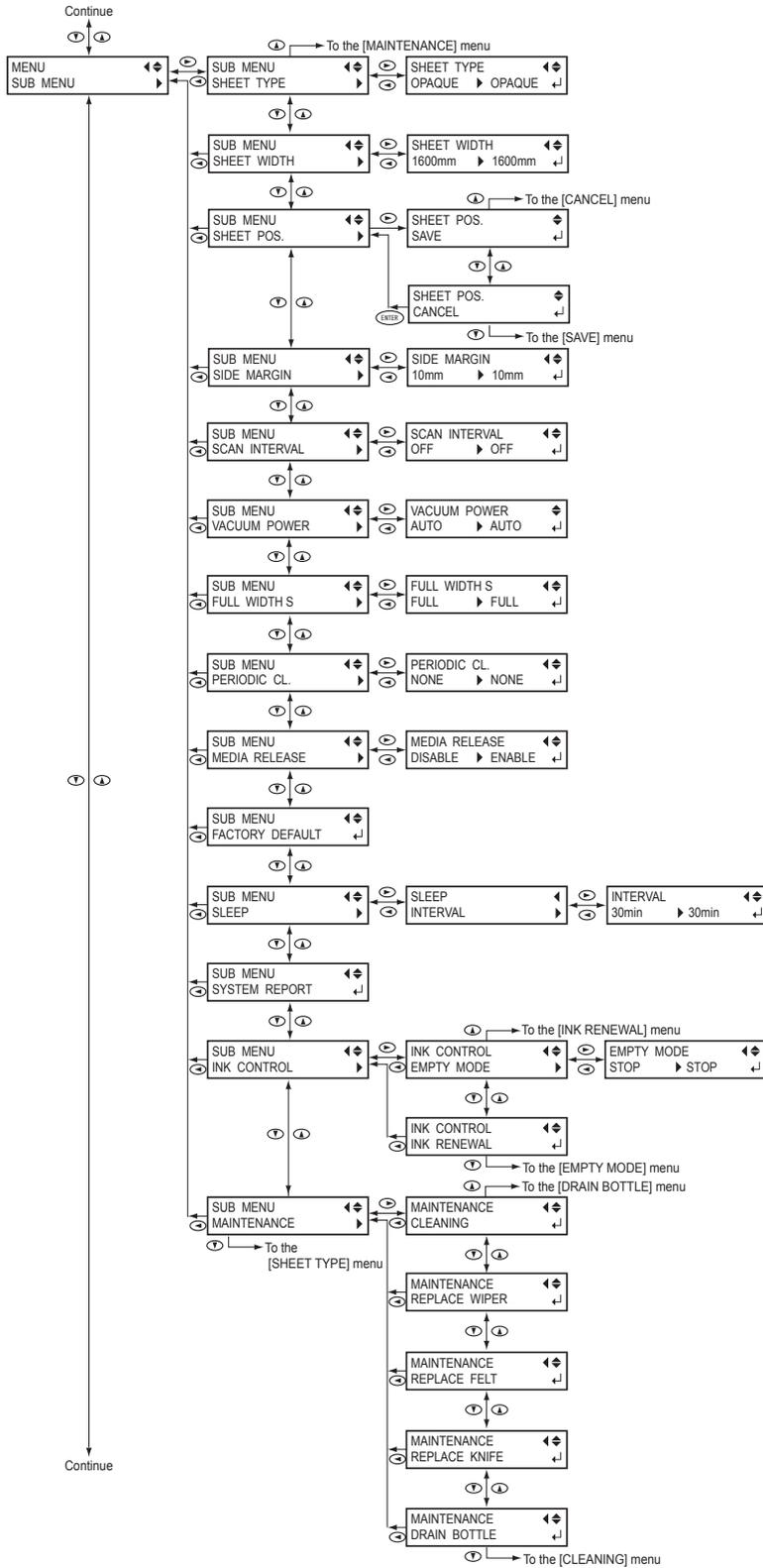
-  **MENU key**
-  **FUNCTION key**
-  **ENTER key**
-  **PAUSE key**
-     **Cursor keys**
-  **SETUP light**
-  **BUSY light**
-  **BASE POINT light**
-  **HEATER light**

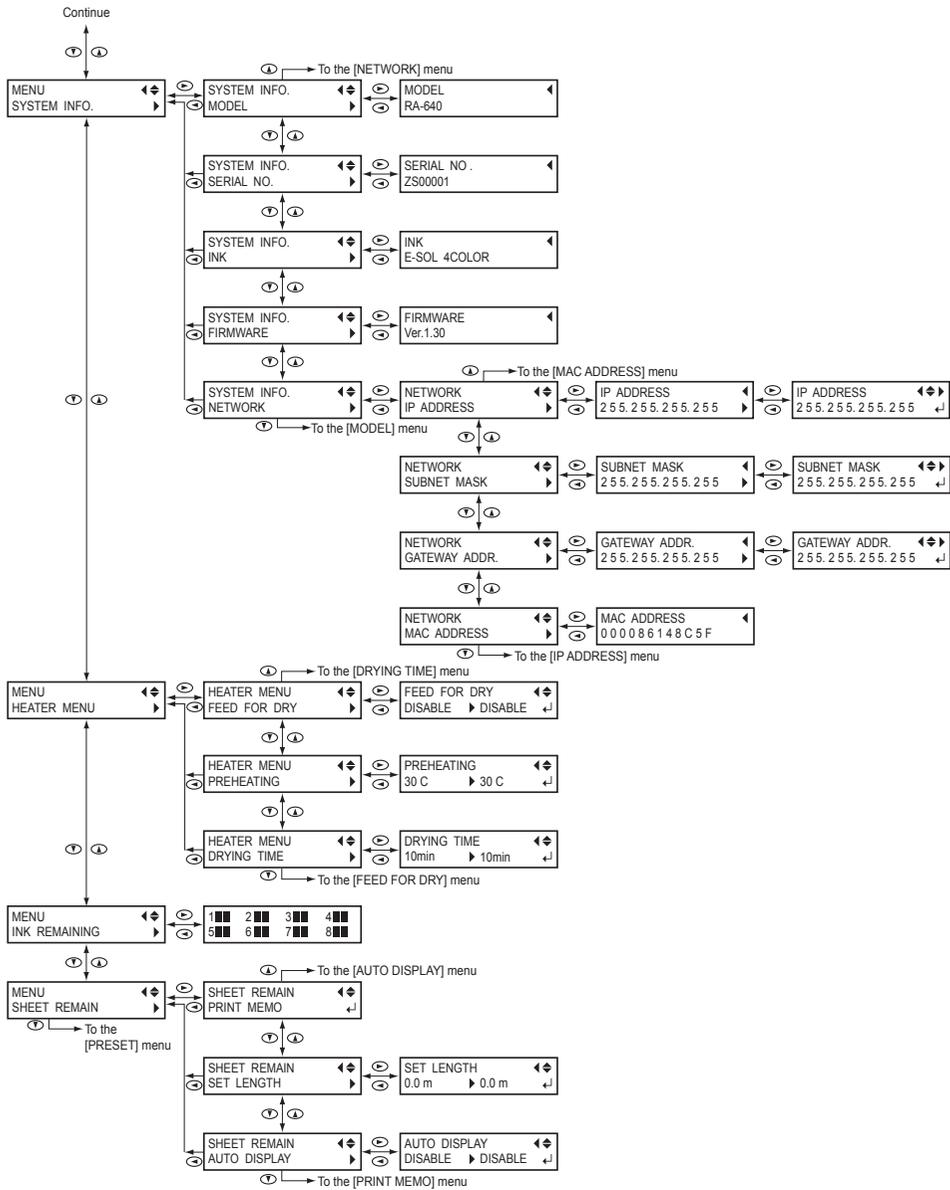
Menu List

Main Menu



(*1) Up to NO. 4 for the water-based pigment ink model

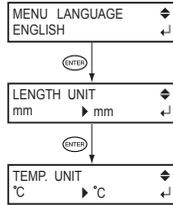




Language and Unit Menu

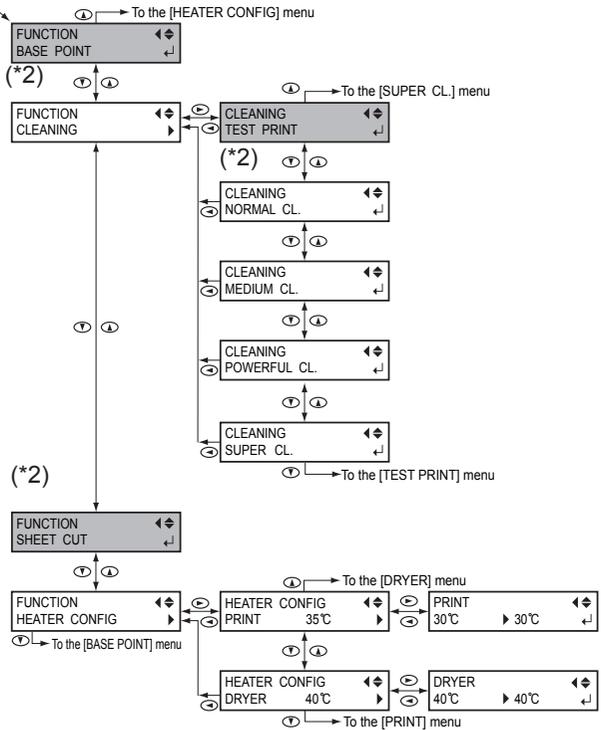
Machine Highlights

While holding down **MENU**, switch on the sub power.



Function Menu

Press **FUNCTION**



(*2) This is not displayed when no media is loaded (that is, when **SETUP** is dark).

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.



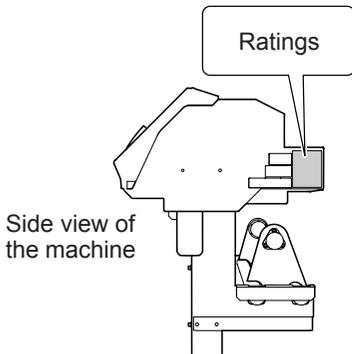
Caution: cutting tool.

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.

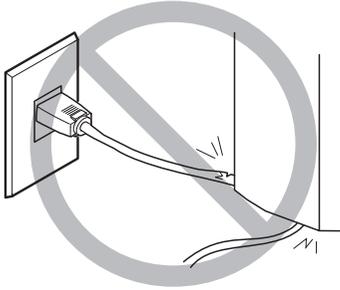
⏚ **Connect to ground.**
This can prevent fire or electrical shock due to current leakage in the event of malfunction.

! **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.

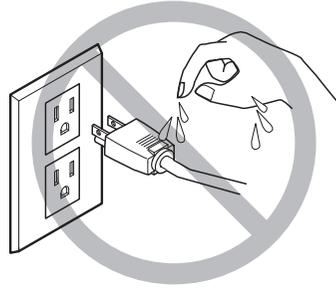
! **If sparking, smoke, burning odor, unusual sound, or abnormal operation occurs, immediately unplug the power cord. Never use if any component is damaged.**
Continuing to use the machine may result in fire, electrical shock, or injury. Contact your authorized Roland DG Corp. dealer.

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

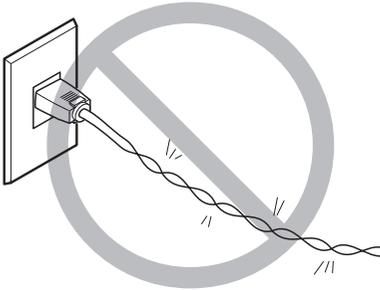
 Important notes about the power cord, plug, and electrical outlet



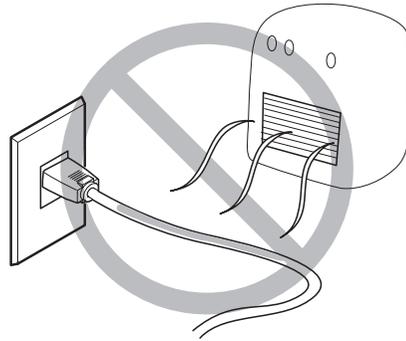
Never place any object on top or subject to damage.



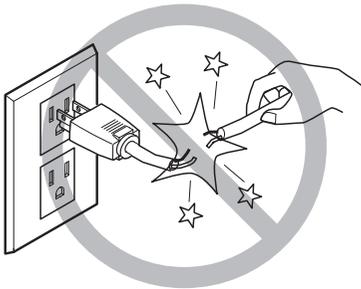
Never allow to get wet.



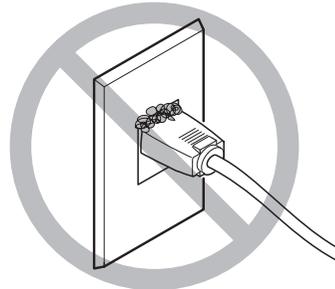
Never bend or twist with undue force.



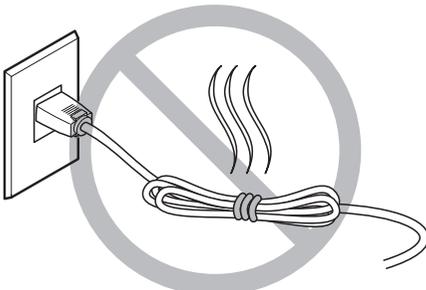
Never make hot.



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.

 **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.

 This machine weighs 200 kg (441 lb.). Media weighs 40 kg (88 lb.).

 **WARNING**

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

The total weight may reach over 200 kg (441lb.). 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.

 **WARNING**

 **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.

 **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.

 **Danger of fire, burns, or toxic gas emissions**

 **WARNING**

 **Caution: high temperatures**
Areas such as the dryer become hot. Exercise caution to avoid fire or burns.

 **When printing is not being performed, remove any loaded media or switch off the power.**

The continued application of heat at a single location may cause the release of toxic gases from the media or pose a fire hazard.

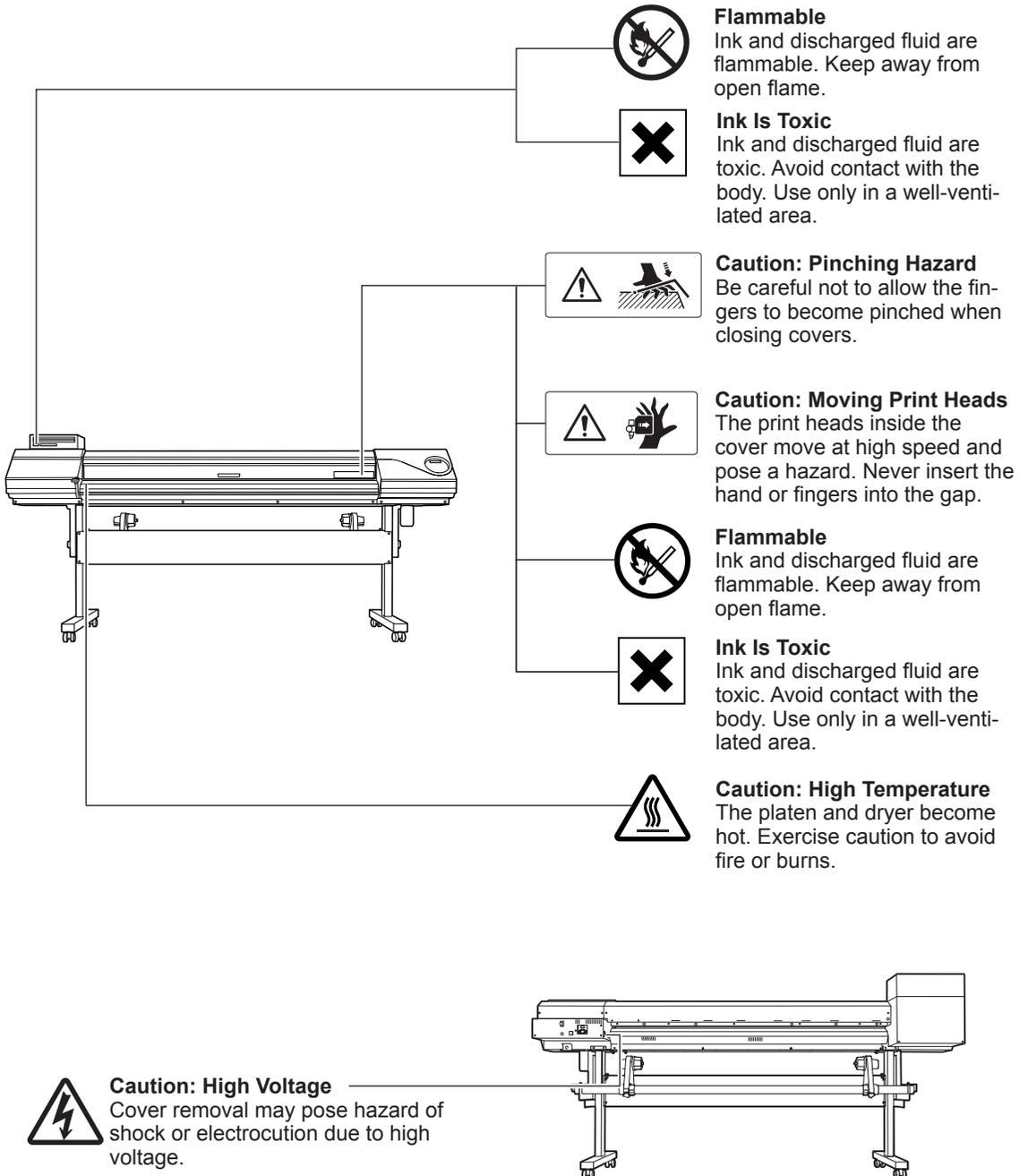
 **WARNING**

 **Never use media that cannot withstand heat.**

Doing so may degrade the media, or may result in fire or the release of toxic gases.

⚠ 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.





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.

⚠ PRUDENCE



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.



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).

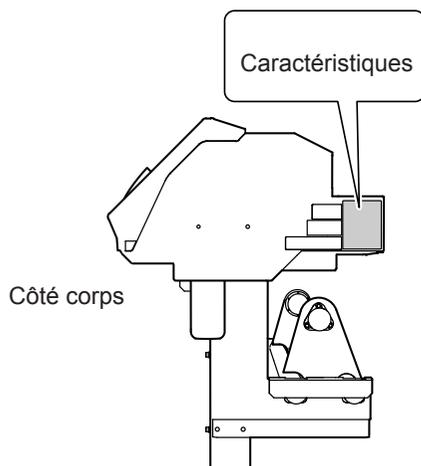
Une tension incorrecte ou un courant insuffisant peuvent causer un incendie ou un choc électrique.

⚠ ATTENTION



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.



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'infiltre dans l'appareil, débrancher immédiatement le câble d'alimentation et communiquer avec le représentant Roland DG Corp. autorisé.

ATTENTION



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.



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



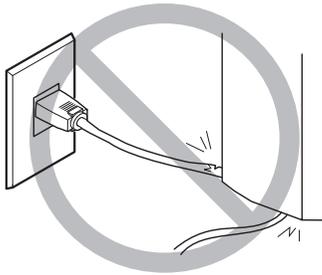
S'il se produit des étincelles, de la fumée, une odeur de brûlé, un bruit inhabituel ou un fonctionnement anormal, débrancher immédiatement le câble d'alimentation. Ne jamais utiliser si un composant est endommagé.

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.

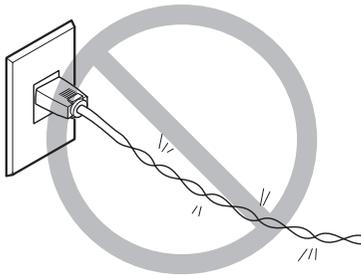
 Remarques importantes à propos du câble d'alimentation, de la fiche et de la prise électrique



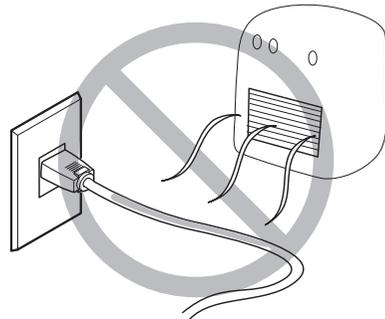
Ne jamais déposer aucun objet sur le câble, sur la fiche ou sur la prise car cela risque de les endommager.



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



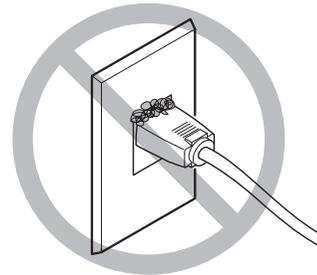
Ne jamais plier ni tordre le câble avec une force excessive.



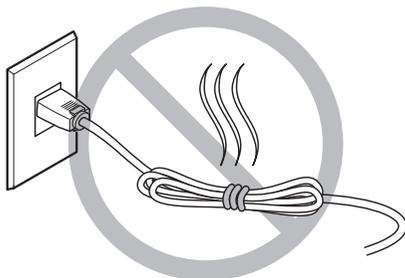
Ne jamais chauffer le câble, la fiche ou la prise.



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 nettoyants 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.**

 **Le poids de cet appareil est de 200 kg (441 lb.)**
Le poids du support est de 40 kg (88 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 de 200 kg (441 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 6 personnes ou plus.**
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'en suivrait 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.

 **Risque d'incendie, de brûlures ou d'émissions de gaz toxiques**

 **ATTENTION**

 **Attention : températures élevées.**
Les zones comme le séchoir chauffent. Faire preuve de prudence pour éviter un incendie ou des brûlures.

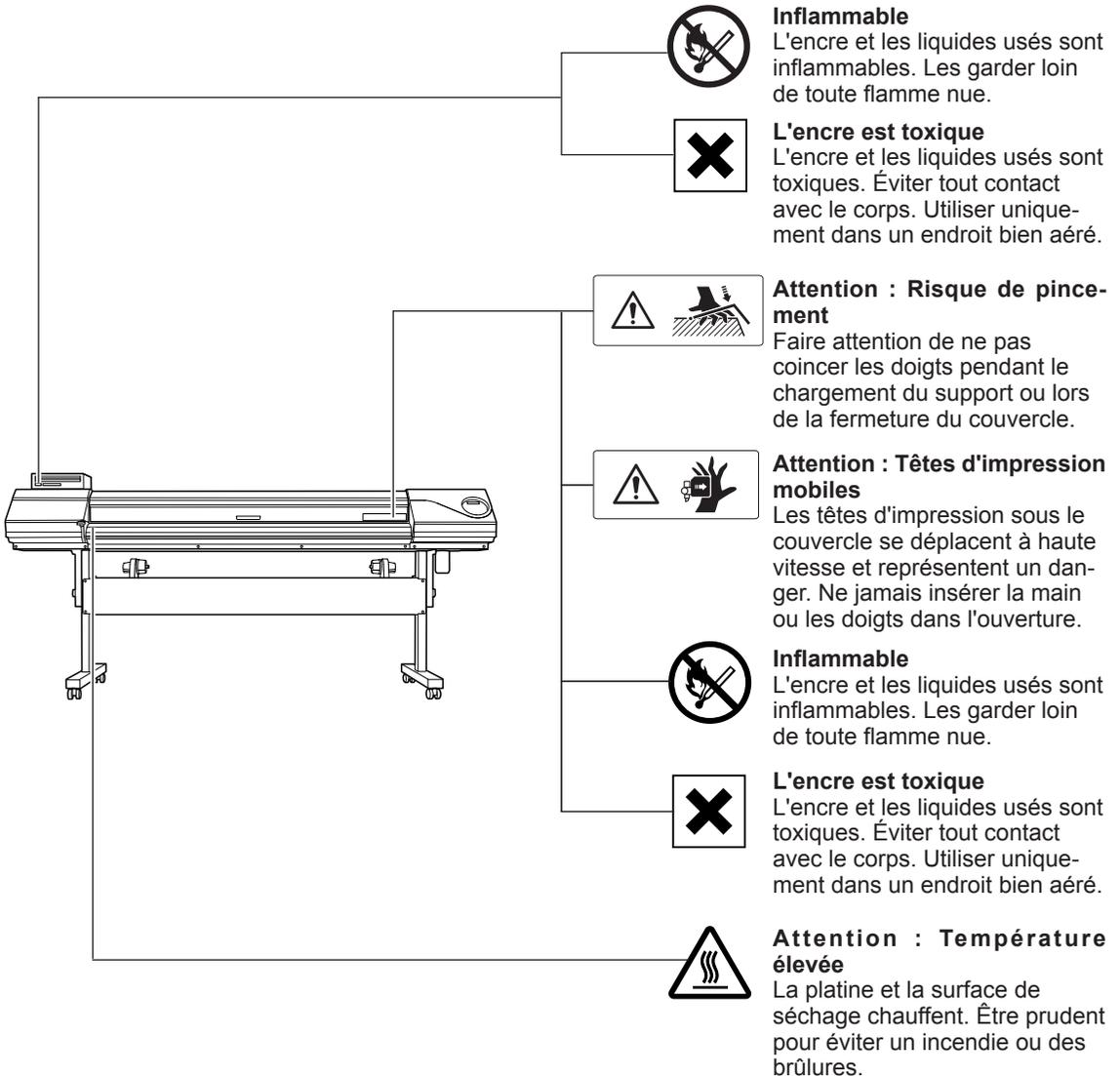
 **Quand aucun travail d'impression n'est en cours, retirer tout support de l'appareil ou couper l'alimentation électrique.**
L'application continue de chaleur à un point unique peut causer l'émission de gaz toxiques ou créer un risque d'incendie.

 **ATTENTION**

 **Ne jamais utiliser un support qui ne peut pas supporter la chaleur.**
L'utilisation d'un support qui ne supporte pas la chaleur peut détériorer le support, créer un risque d'incendie ou causer l'émission de gaz toxiques.

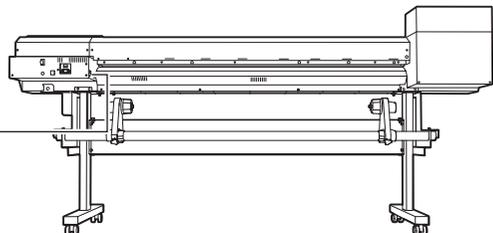
⚠ Vignettes d'avertissement

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 : voltage élevé

Il peut être dangereux de retirer le couvercle puisqu'il y aurait des risques de chocs électriques ou d'électrocution à cause du voltage élevé.



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 print heads are delicate.

- 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.

This machine becomes hot.

- Never cover the ventilation holes with cloth, tape, or anything else.

Ink Cartridges

Ink cartridges come in various types.

- Use a type that is compatible with the printer.

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

- Store unopened in a well-ventilated location at a temperature of -20 to 40°C (-4 to 104°F).

Chapter 2

Basic Operation

Prepare the Media	30
Type of Media	30
Usable Media.....	31
Switch On!.....	32
Switch On!	32
The Power-saving Feature (Sleep Mode)	32
Loading Media	33
Loading Roll Media.....	33
Loading the Sheet Media.....	39
Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely).....	41
Setup of Media.....	43
About [Media Setting] menu	43
Setup of Media ([Media Setting] menu).....	43
Outputting	49
Printing Tests and Cleaning.....	50
Getting Ready to Receive Data from a Computer.....	51
Starting Output	53
Pausing and Canceling Output.....	54
Cutting Off the Media.....	54
Switch Off.....	56
Switch Off	56

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)

259 to 1,625 mm (10.2 to 64 inches)

Maximum media thickness (For both Roll Media and sheet media)

1.0 mm (39mil)

Roll outer diameter

210 mm (8.3 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

40 kg (88 lb.)

Note: When using the take-up unit, conditions are dependent on the usable media of the take-up unit.

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 heat of the media heating 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

Switch On!

Switch On!

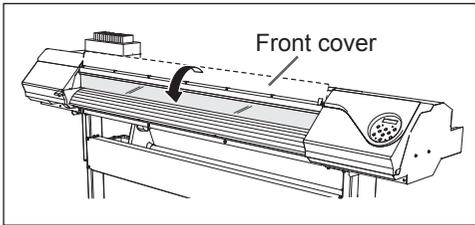
⚠️ WARNING

When output is not being performed, remove any loaded media or switch off the sub power.

The continued application of heat at a single location may cause the release of toxic gases from the media or pose a fire hazard.

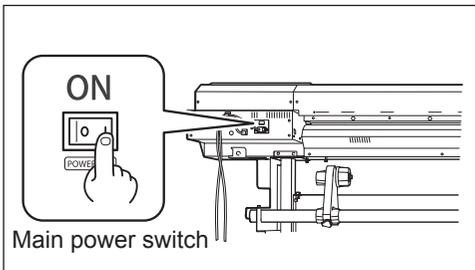
Procedure

1



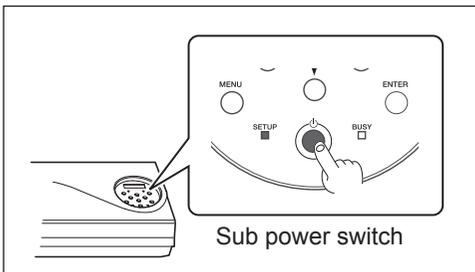
Close the front cover.

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.

This setting of sleep mode can be changed. However, we recommend setting the activation time for the sleep mode to 30 minutes or less to reduce power consumption and prevent problems such as overheating.

☞ P. 110, "Setting the Interval until Activation of the Sleep Mode (Power Saving Function)"

Loading Media

Loading Roll Media



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



Roll media weighs about 40 kg (88 lb.). To avoid injury, handle with care.

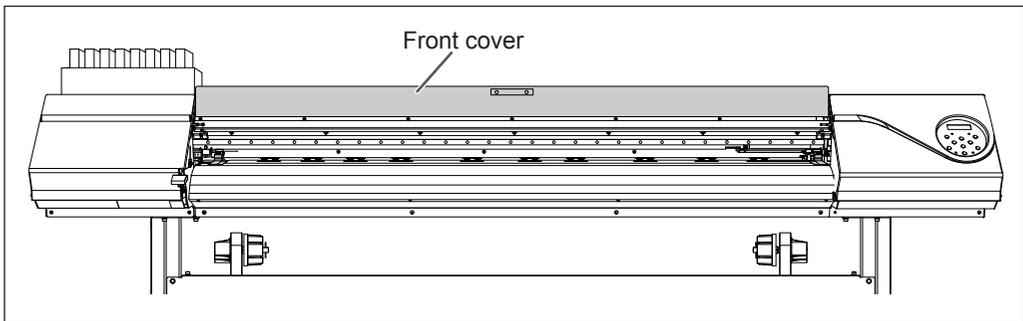


Never load media that weighs over 40 kg (88lb.).
The machine may fail to withstand the weight and tip over or cause the media to fall.

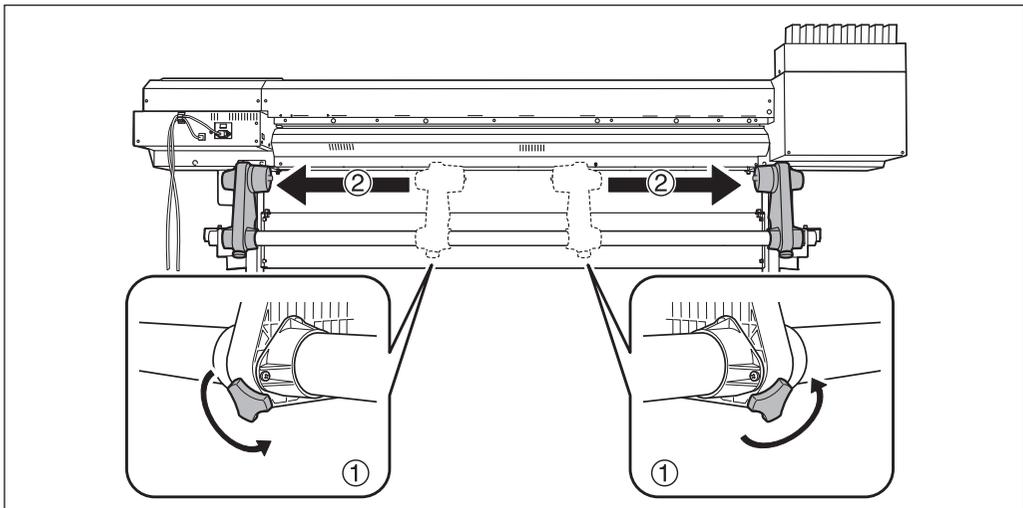
1. Install the media to the media holder.

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.

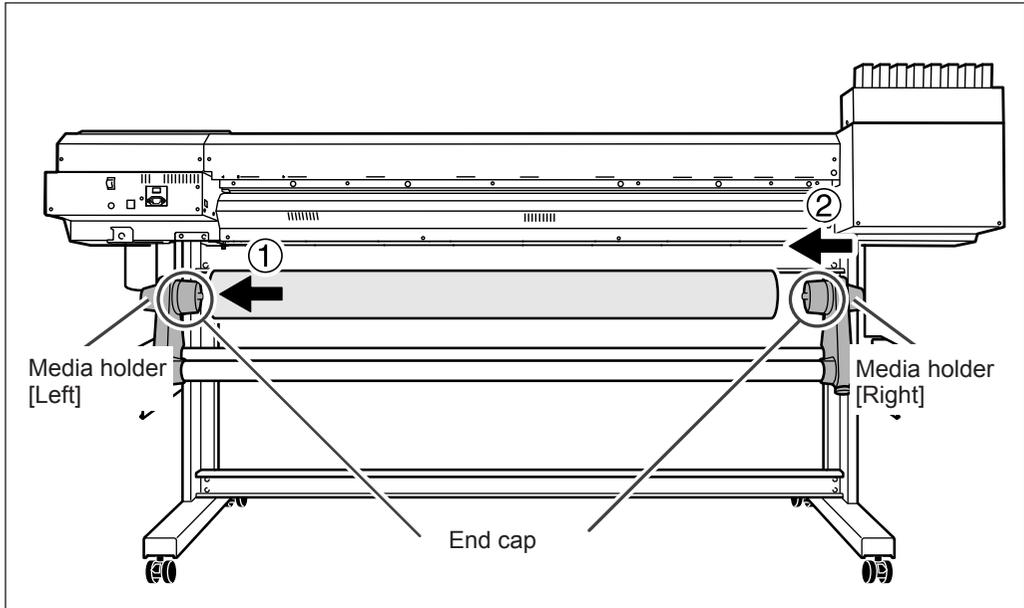
1 Open the front cover.



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



- 3** 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.

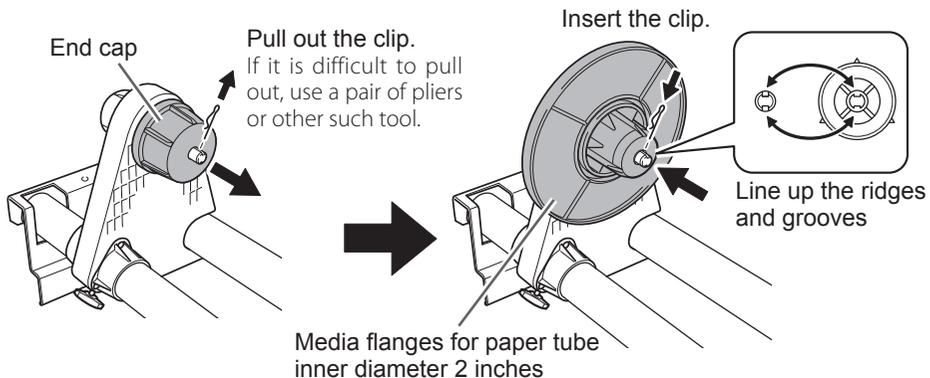


IMPORTANT! Install conforming to the procedures.

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.

How to use the media flanges for the paper tube inner diameter 2 inches

* The media flanges for the paper tube inner diameter 2 inches are optional items.



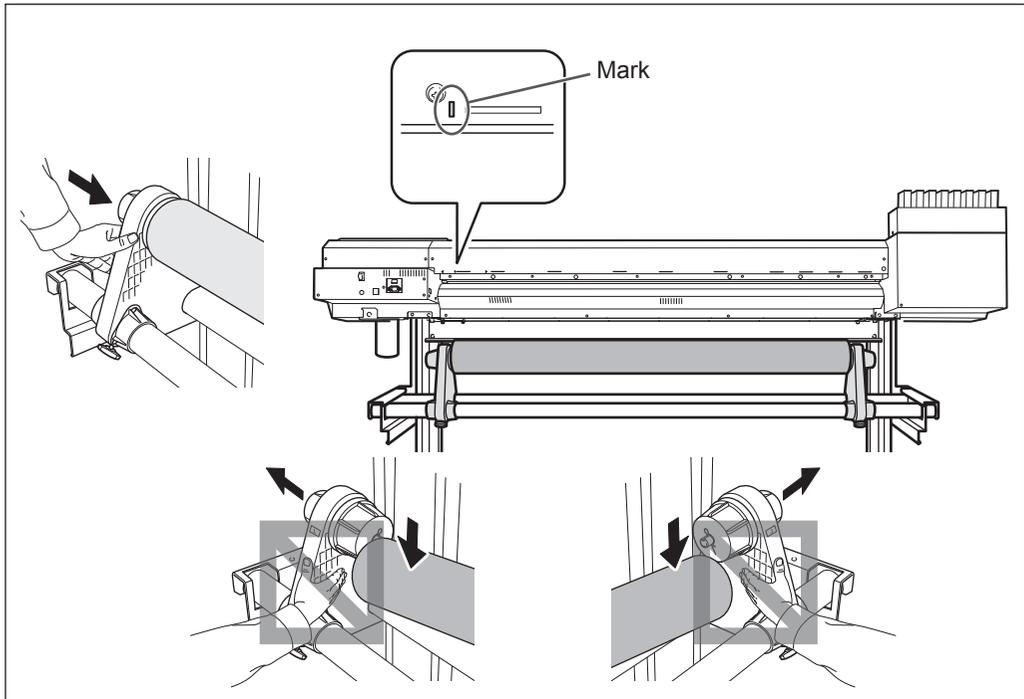
- 4 Hold the outside of the media holder [left] and align the left edge of the media with the mark.

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.

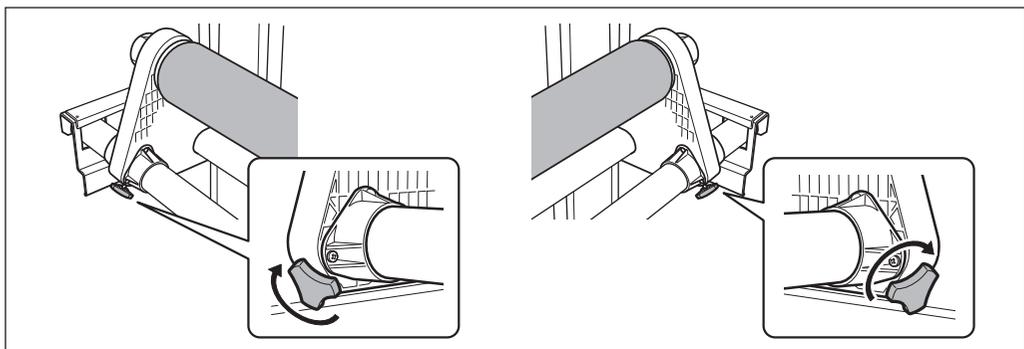
The media may fall from the media holder, resulting in injury.



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

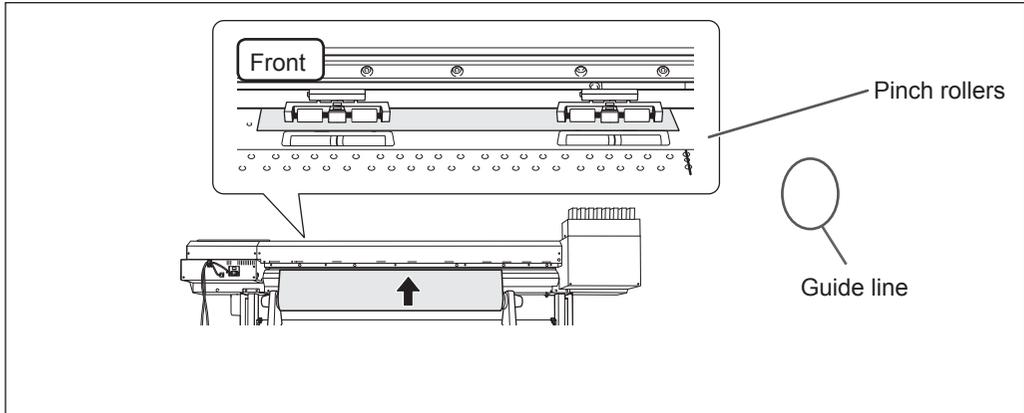
After this procedure is completed, if the left and right side positions do not fit the proper position when securing the media with pinch rollers, go back to this step to redo this procedure. Printing quality is affected due to skew media feed, if you hold the media only to readjust the position forcibly.

- 5 Secure the media holder by tightening the securing screws slightly.

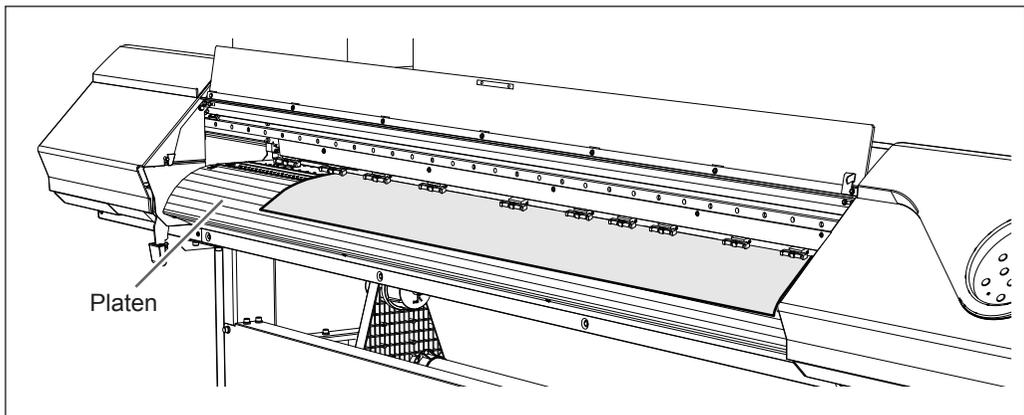


2. Pass the media through the printer and secure the media holders.

- 1 Pass the leading edge of the media between the pinch rollers and the grid rollers. Check that the edge of the media (at the carriage side of the print head) is aligned with the guide line.



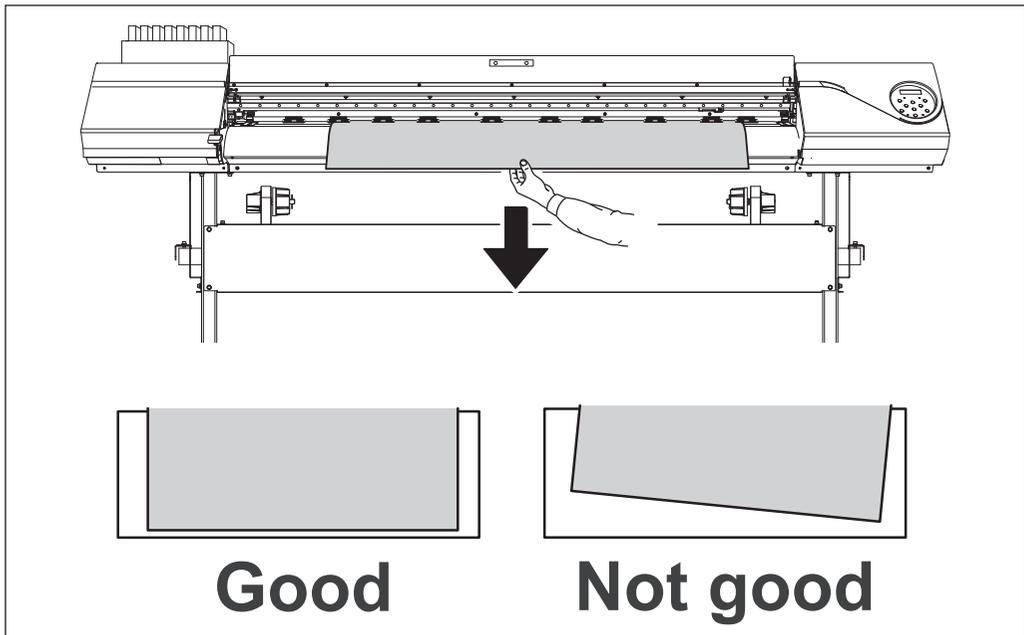
- 2 Pull out the media over the platen.



IMPORTANT!

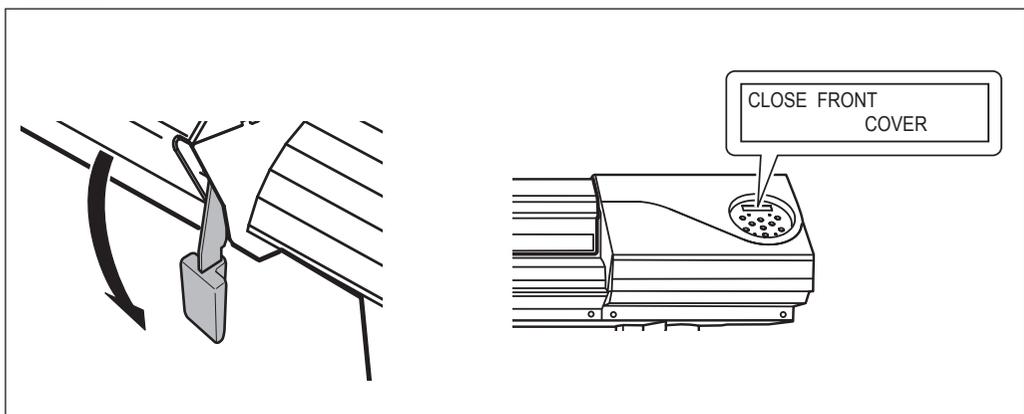
If you want to readjust the media position at this step, go back to the procedure 1 and redo the procedure 1. - 4 Printing quality is affected due to skew media feed, if you hold the media only to readjust the position forcibly.

- 3 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.



- 4 Lower the loading lever to secure the media in place.

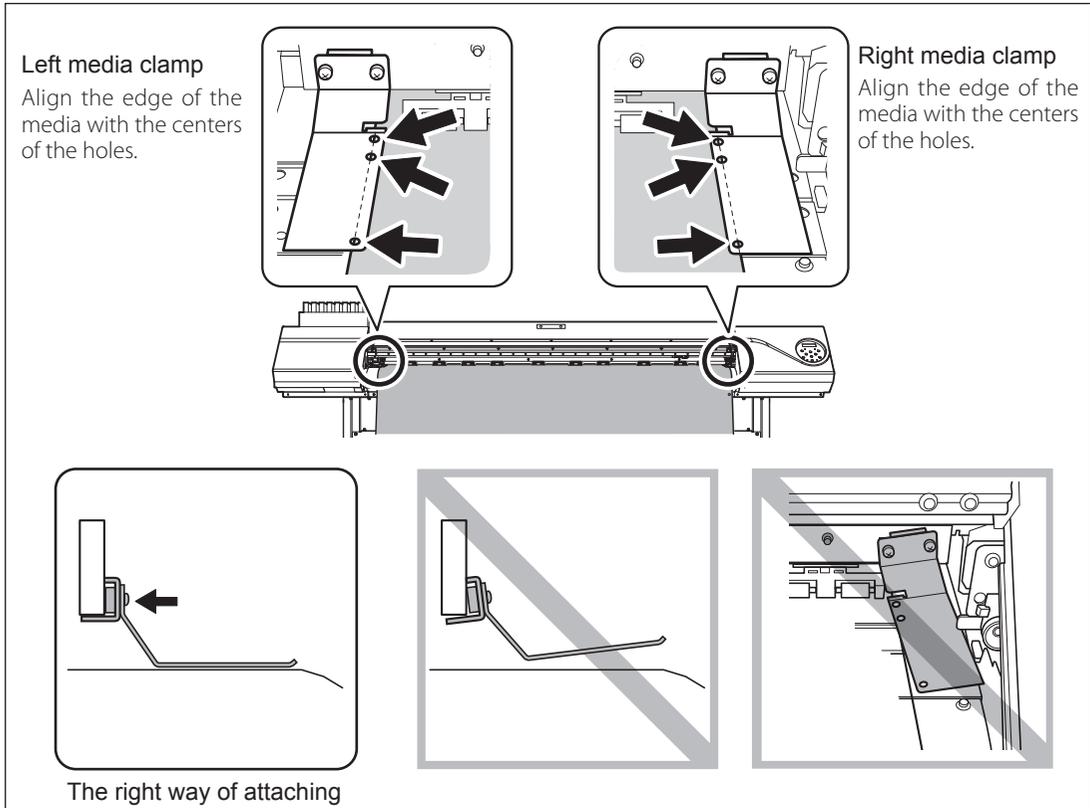
SETUP starts to flash, and then the screen shown in the figure appears.



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

1 Attach the media clamps.

The media clamps are magnetic, and the left and right clamps are distinct. Refer to the figure and install them at the correct positions, taking care not to let the left and right clamps get mixed up.



2 Close the front cover.

When the front cover is closed, the print-head carriage moves and detects the width of media. This operation is called initialization. When initialization ends, **SETUP** 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.

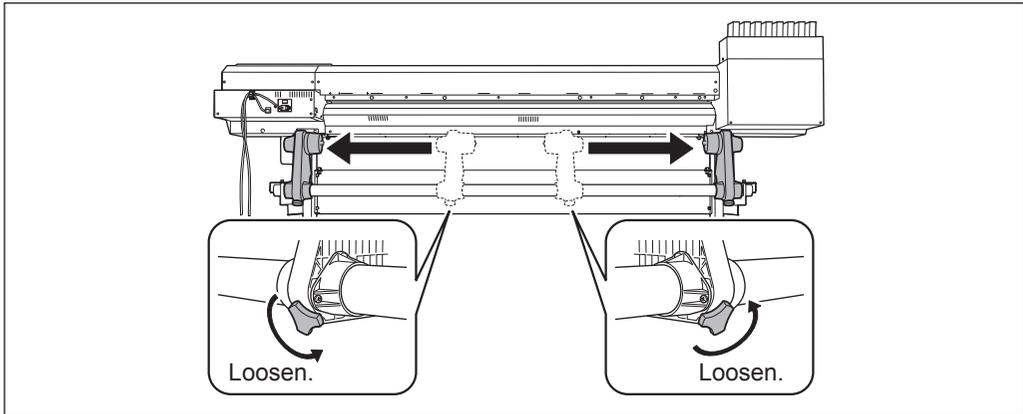
If roll media is allowed to stand unused in a loaded state for an extended period, the media may sag. This can cause poor printing quality and motor errors, so be sure to remove and store such media when not in use.

Loading the Sheet Media

Procedure

1 Move the media holders to the left and right.

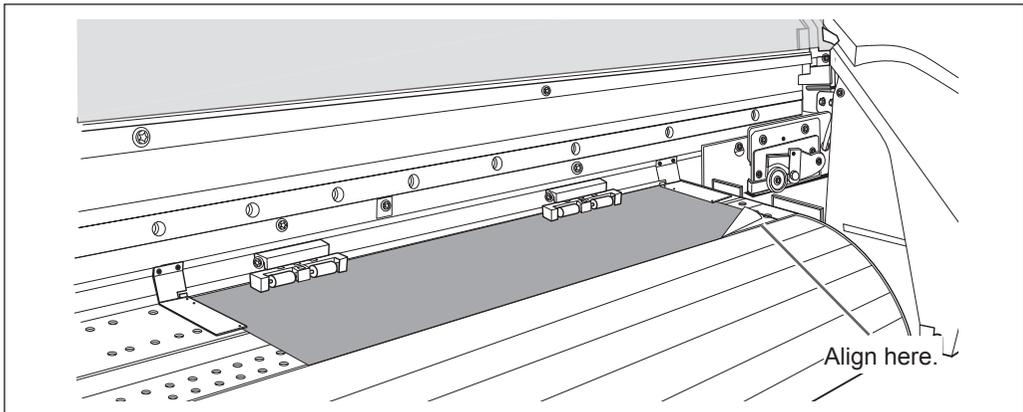
Move them to a location where they don't disturb the media when the media is hung down from the rear of the machine. If they disturb the media, remove them with the shaft. For information on how to remove, refer to "Setup Guide."



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

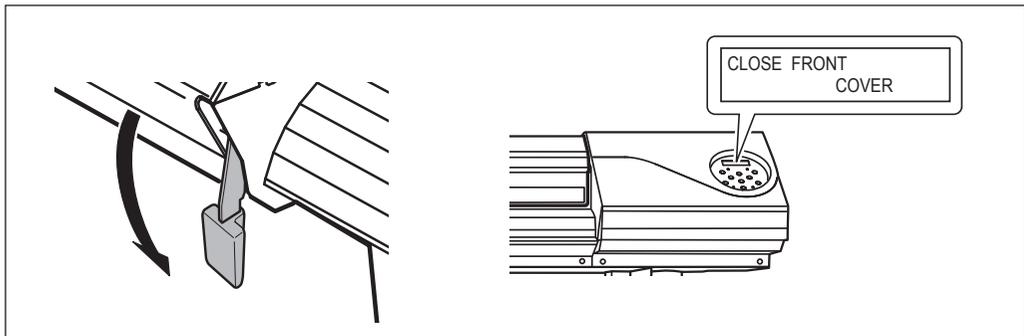
☞ Procedure 2. 1 to 2 of [Loading Roll Media]

3 Align the front edge of the media with the location shown in the figure.



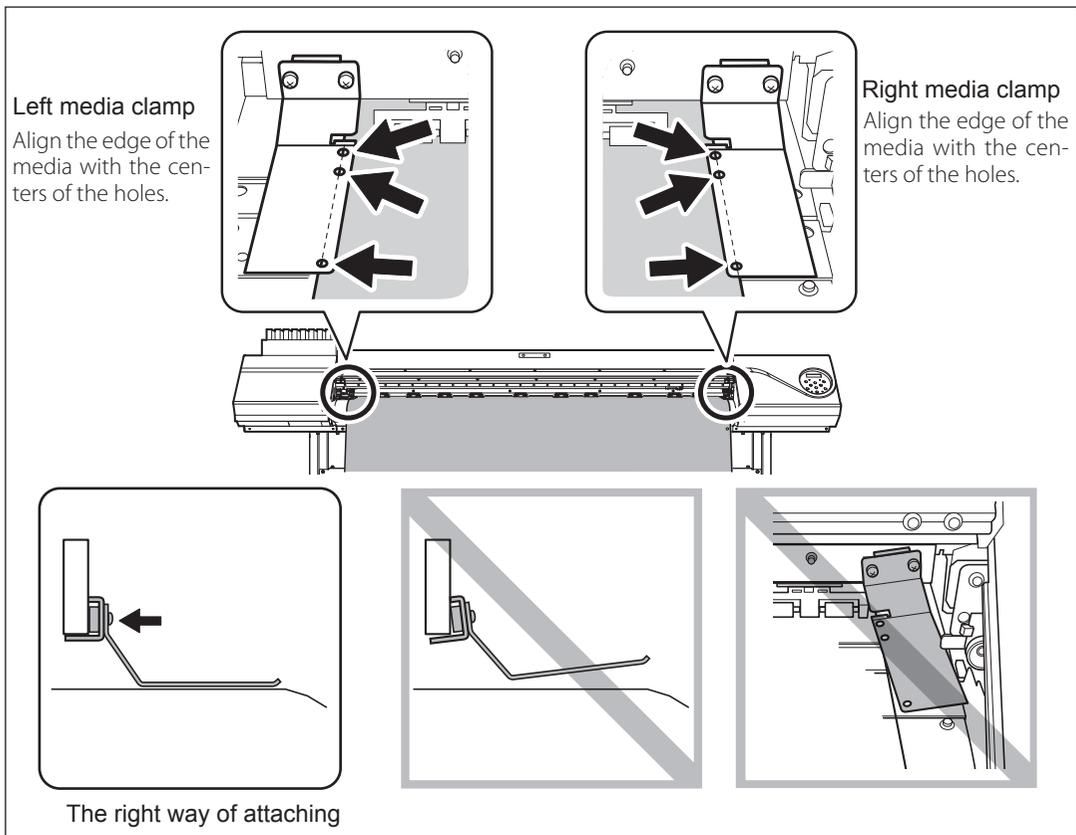
4 Lower the loading lever to secure the media in place.

SETUP starts to flash, and then the screen shown in the figure appears.



5 Attach the media clamps.

The media clamps are magnetic, and the left and right clamps are distinct. Refer to the figure and install them at the correct positions, taking care not to let the left and right clamps get mixed up.



6 Close the front cover.

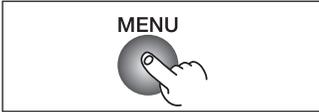
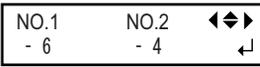
When the front cover is closed, the print-head carriage moves and detects the width of media. This operation is called initialization. When initialization ends, **SETUP** remains steadily lighted, and the printable width is displayed on the screen. This completes loading of the media.

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. In the following case, perform this adjustment.

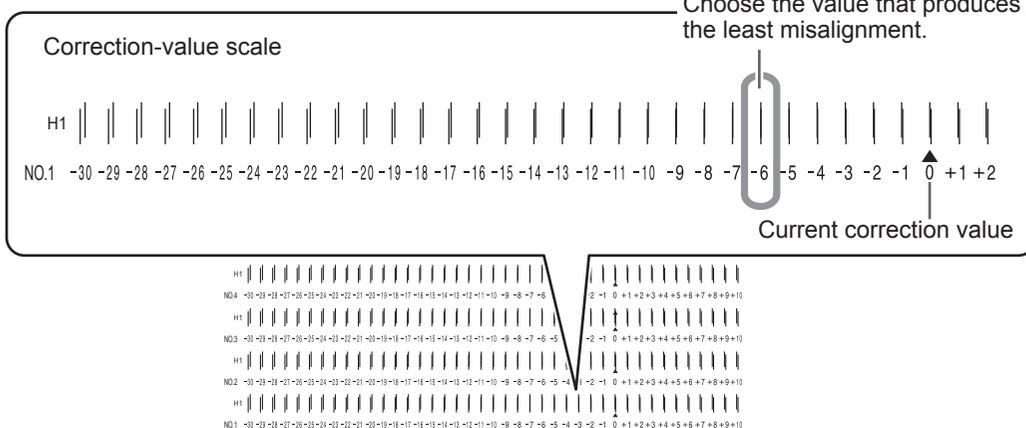
- When using this machine for the first time
- When changing the media to use for the first time
- When further correction is required to improve printing, such as when simple correction is performed for misalignment in bidirectional printing. [☞ P. 93, "Correcting for Misalignment in Bidirectional Printing"](#)

Procedure

- 1**  Press **MENU**.
- 2**  Press **▼** several times to display the left figure. Press **▶**, and then **▲**.
- 3**  Press **▶**.
- 4**  Press **ENTER**.
A test pattern is printed.
When printing ends, then press **▼**.
- 5**  Press **▶**.
- 6**  Press **▲** **▼** to select a correction value of **No.1**.
Press **▶**.
Press **▲** **▼** to select a correction value of **No.2**.
Press **▶**.

To decide a Correction Value

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



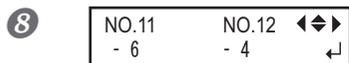


Press to select a correction value of No.3

Press .

Set correction values of No.4 to No.12. in the same manner.

Perform the setting up to NO. 4 for the water-based pigment ink model.



When correction value settings end, press .



Press 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)

Perform the procedure **1.** to **5.**, and **6.,7.**

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

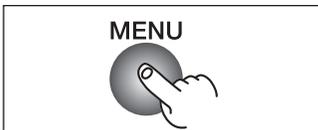
1. Starting the [Media Setting] menu.

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. 33, "Loading Media"

2



Press **MENU**.

3



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

2. Setting the Temperature of Print Heater and Dryer

* Go to the procedure **3.** when the water-based pigment ink model is in use.

1

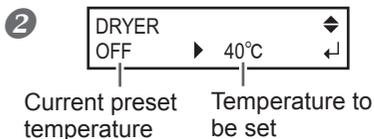


Current preset temperature Temperature to be set

Use **▲** **▼** to set the temperature.

Recommended temperature: 35 °C (95 °F)

Press **ENTER** to enable the setting.



Use to set the temperature.
 Recommended temperature: 40 °C (104°F)
 Press to enable the setting.

For the individual setting method of this setting item and the description, refer to p. 89, "Making the Temperature Setting for the Media Heating System."

To cancel the setting

Procedure

1 Press during the setting.



Press to select [YES].
 Press .



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

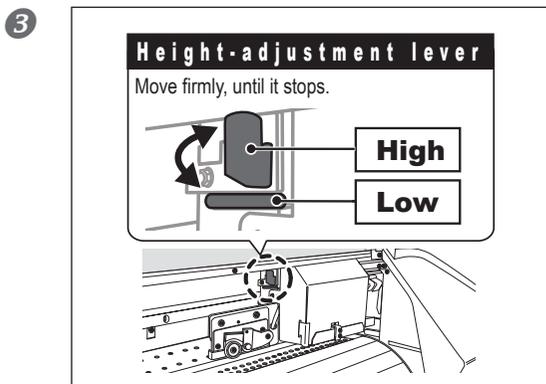
3. Adjusting the Head Height



Press to select [CHANGE].
 Press to enable the setting.



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]. For the media that is wrinkled and comes loose from the platen, set to [High].

4 Close the front cover.

For the individual setting method of this setting item and the description, refer to p. 96, "Adjusting Head Height to Match Media Thickness."

4. 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 media's thickness.

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%  ⏎
  
```

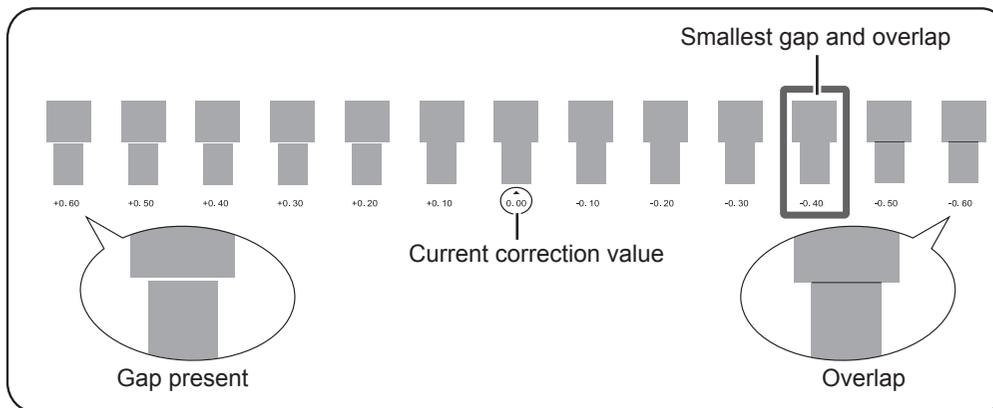
Use **▲** **▼** to set the correction value.

Press **ENTER** to enable the setting.

Current correction value 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/To 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 p. 94, "Alleviating Horizontal Bands and the Like (feed correction function)."

2

Basic
Operation

5. 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 Press to select [SET].
Press to enable the setting.

Press to select [SET].
Press to enable the setting.

The test pattern of bidirectional correction is output.

2 When the left figure is displayed, press .

When the left figure is displayed, press .

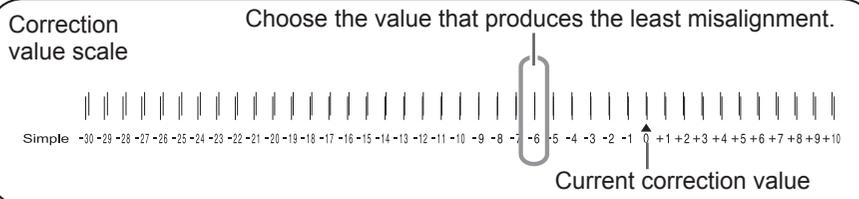
3 Use and to set the correction value.
Press to enable the setting.

Use and to set the correction value.
Press to enable the setting.

Current correction value Value to be set

To decide a Correction Value

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



4 [To confirm again/adjust again]
Press to select [YES].
Press to enable the setting.

[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 p. 93, "Correcting for Misalignment in Bidirectional Printing."

6. Setting the Drying Method and Time after Printing

* Go to the procedure 7. when the water-based pigment ink model is in use.

- 1
- | | |
|------------------|---|
| FEED FOR DRY | ↕ |
| DISABLE ▶ ENABLE | ↵ |
- Current setting Setting after changed
- Press to select the item.
Press to enable the setting.

POINT! Drying Method after Printing

After the 1st page is printed, set that the media should be fed until the trailing edge of the printed area is positioned directly on the dryer. To make sure to dry the entire printed area, [ENABLE] If [DISABLE] is selected, the trailing edge of the printing area is not fed to the dryer unless you continue with a subsequent printing.

For the individual setting method of this setting item and the description, refer to [p. 91](#), "Drying the Trailing Edge of the Printing Area on the Dryer."

- 2
- | | |
|---------------|---|
| DRYING TIME | ↕ |
| 10min ▶ 10min | ↵ |
- Current setting Setting after changed
- Press to select the item.

Example of setting time (general guide):

*The setting time varies according to the settings of type of media and printing quality.

<Condition> non-coated vinyl media

<Setting time> about three minutes

Press to enable the setting.

POINT! Drying Time after Printing

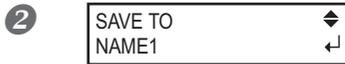
Set the drying time after the 1st page is printed. The next operation is not started until the set time passes.

For the individual setting method of this setting item and the description, refer to [p. 92](#), "Setting the Drying Time after Printing."

7. Saving the Setting as Preset

- 1
- | | |
|------------------|-----|
| PRESET | ◀ ▶ |
| [SAVE] NEXT | ↵ |
- Press to select [SAVE].
Press to enable the setting.

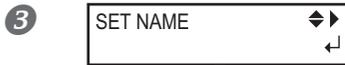
If you select [NEXT], the performed settings are retained. But your settings are overwritten or deleted, when you operate the [Media Setting] menu again or switch off the main power of this machine.



Use to select [Destination to Save].

You can select one of NAME1 to 8.

Press to enable the setting.



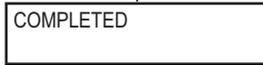
Use to select characters.

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 p. 86, "Fully Utilizing Preset Function."

This completes the operation of the [Media Setting] menu.

Setting the Output-start Location

When p. 43, "Setup of Media" are completed, you can set the output-start location at any location you prefer. (You can output even if you do not set this.) Move the media and the print head to set the output-start location. Note, however, that this setting must be made for each individual page.

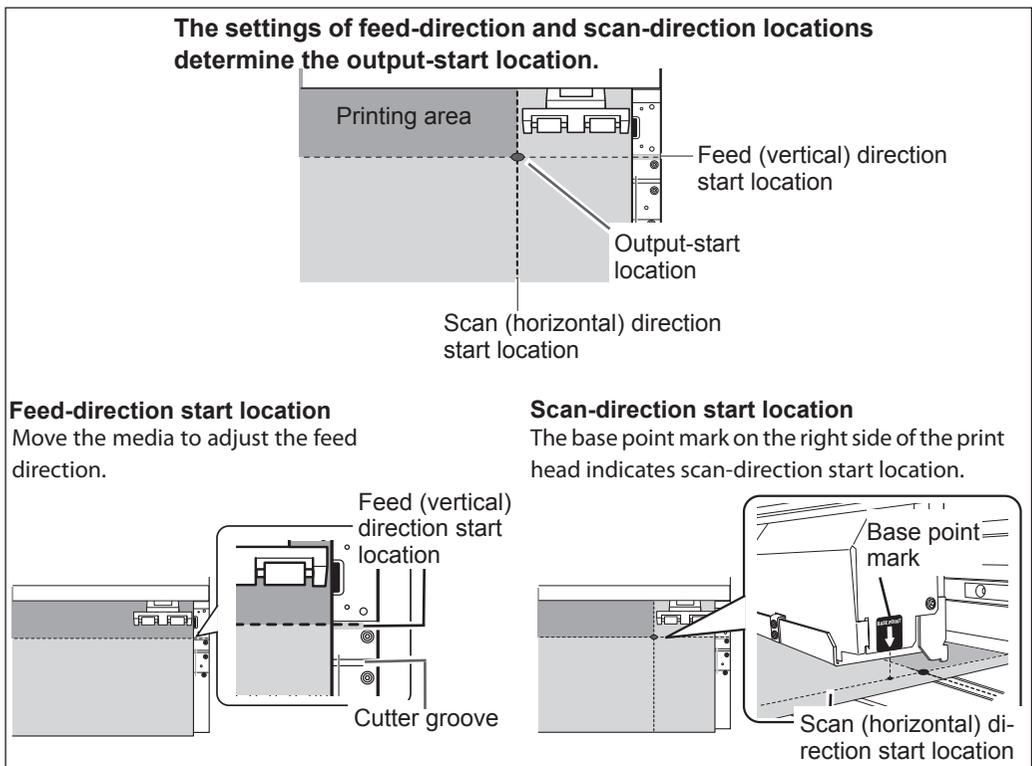
Procedure

1 Open the front cover.

2 Use     to move the media and the heads.

If you press a cursor key, preparation operation to move the media or the print head starts.

After the operation finishes, move the media and the print head to the location where you start the output.



3 When the location is set, press .

4    **When the left figure is displayed, press  to enable the setting.**

W1200mm

 remains steadily lighted and when the screen displays the output-possible width at the location, setting is completed.

POINT!
 Note, however, that the left and right positions are not restored to their defaults for test patterns. If you're using the separately available media take-up unit, never adjust by pressing **▲**. Doing so may pull the media with undue force, resulting in an error or malfunction. If you press **▲** before and after executing feed correction, the roll media is loosened, and correction cannot be performed properly. In this case, the movement distance of the media becomes discrepant during printing, causing horizontal stripes.

Printing Tests and 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

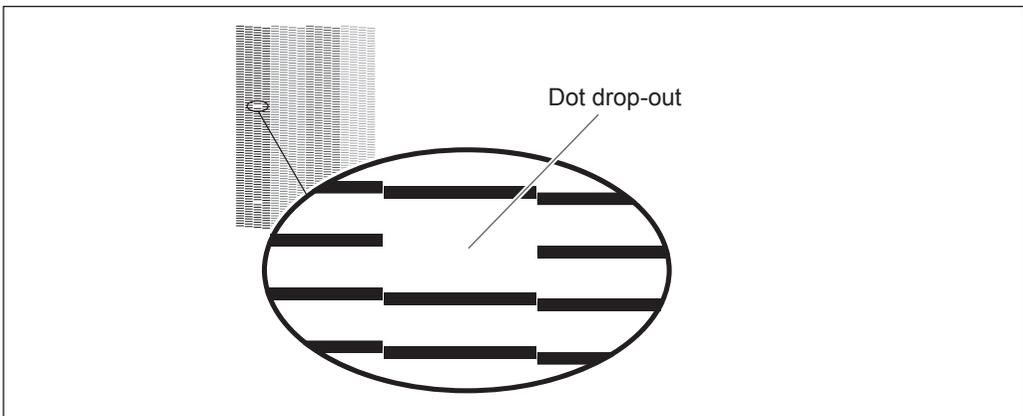
- 1 **Setting the Output-start Location.**
 ⇨ P. 49, "Setting the Output-start Location"
- 2 Press **FUNCTION**.
- 3

FUNCTION	◀▶
CLEANING	▶

 Press **▶**.
- 4

CLEANING	◀▶
TEST PRINT	↵

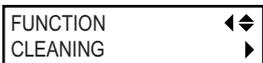
 Press **ENTER**.
 A test pattern is printed.

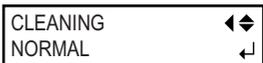


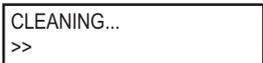
How to Perform a Normal cleaning

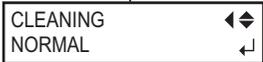
Procedure

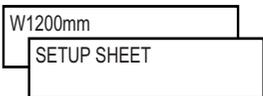
1 Press **FUNCTION**.

2  Press **▶**, and then **▼**.

3  Press **ENTER**.
Normal cleaning starts.



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

4  Press **FUNCTION** to go back to the original screen.

5 **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. 64, "When Normal Cleaning Is Not Effective"

Getting Ready to Receive Data from a Computer

When p. 33, "Loading Media," p. 43, "Setup of Media" are completed, get ready to receive the data from a computer.

⚠ CAUTION

Never touch the print heads while output is in progress.

The print heads move at high speed. Contact may cause injury.

Procedure

1 **Close the front cover.**

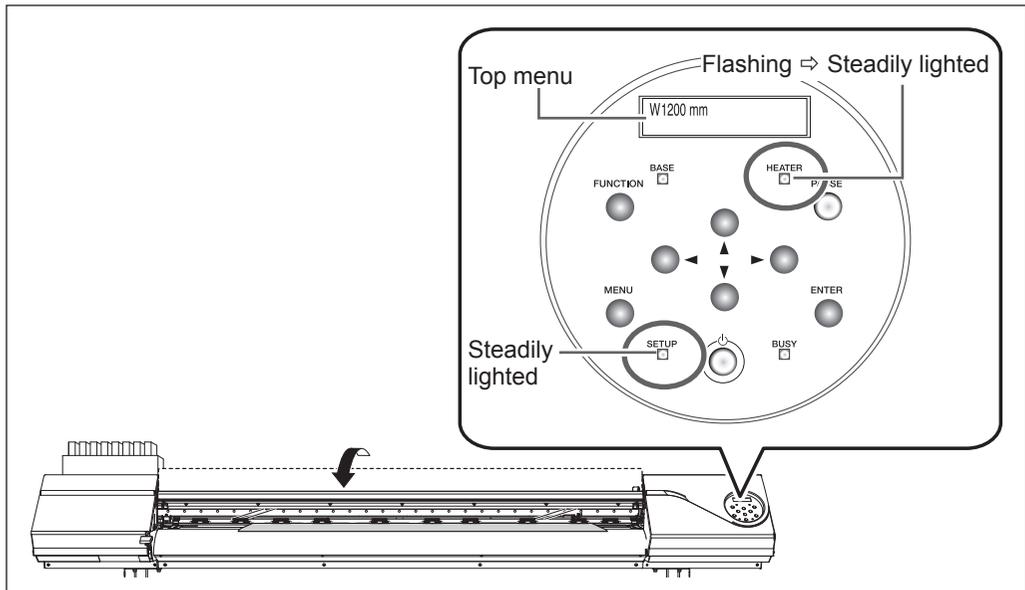
2 **Make sure **SETUP** stays steadily lit.**
If the light does not come on, lower the loading lever.

3 **Wait until **HEATER** stays steadily lit.**

When "OFF" is set to the print heater and the dryer, **HEATER** lamp stays dark. Go to procedure 4.

☞ P.89, "Making the Temperature Setting for the Media Heating System"

- 4 Make sure the top menu is displayed.
 If the top menu is not displayed, press **MENU** once or twice to display the menu.



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 **SETUP** is dark.
- When "ON" is set to the print heater and/or the dryer, printing does not start until **HEATER** lights up.
- Data from the computer is not accepted when you are not at the top menu.

Starting Output

When the operation of p. 51, "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.

For information on how to install and use software RIP, refer to the user's manual of the software RIP.

IMPORTANT! Points that must be observed

- Be sure to set the media clamps during printing. Otherwise the edges of the media may warp and catch on the print head.
- During output, never touch the media that's already been discharged. 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. 59, "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. 58, "Checking for Remaining Ink"

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.
Press **PAUSE** **again to resume printing.**
To cancel the output, go the next Procedure without pressing **PAUSE**.
- 2

TO CANCEL, HOLD DOWN PAUSE KEY

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

Cutting Off the Media

Procedure

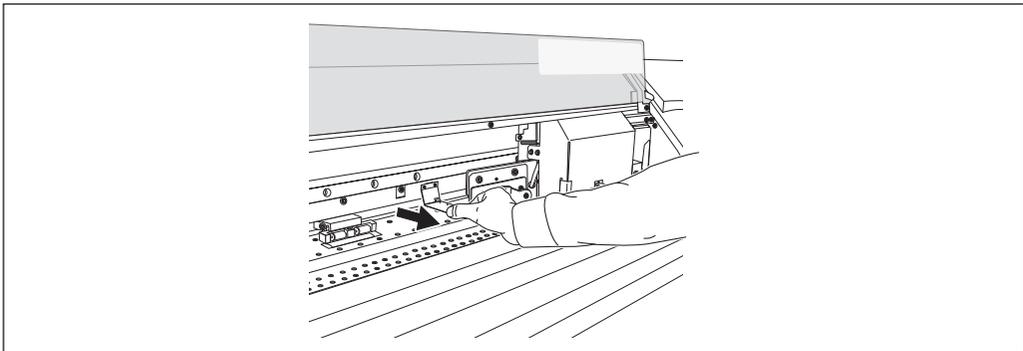
- 1 **Close the front cover.**
- 2 **Make sure** **SETUP** **lights up.**
- 3 **Press** **FUNCTION**.
- 4

FUNCTION SHEET CUT	↕ ↓
-----------------------	--------

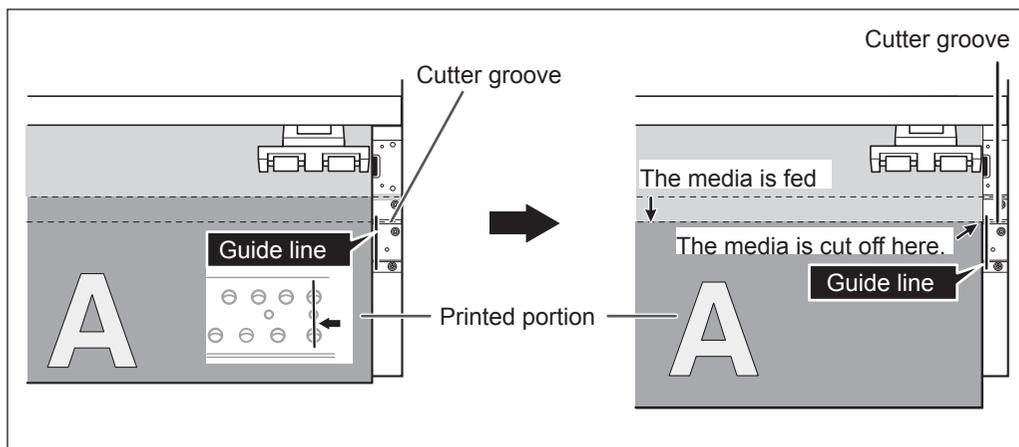
Press **▼** **to display the left figure.**
Press **ENTER**.

REMOVE MEDIA CLAMPS	◀ ↕
------------------------	--------

When the media clamps are attached, the screen shown in the figure appears. Open the front cover and detach the left and right media clamps.



- 5 Press **ENTER**.
The media is cut off.



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.
- Before you're performing cutoff, never use **▲** 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.

IMPORTANT! 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

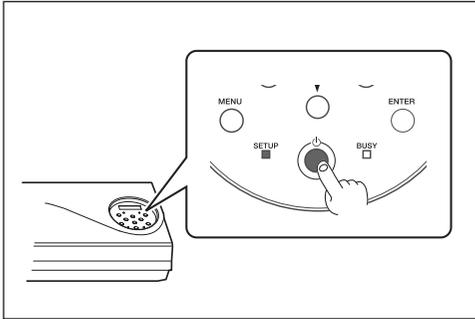
⚠️ WARNING

When output is not being performed, remove any loaded media or switch off the sub power.

The continued application of heat at a single location may cause the release of toxic gases from the media or pose a fire hazard.

Procedure

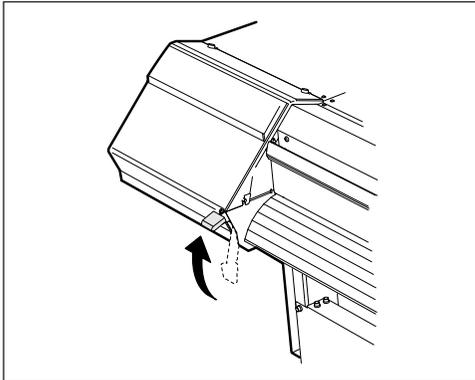
1



Switch off the sub power whenever output is finished.

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

2



Raise the loading lever.

Even except for switching off the power, raise the loading lever.

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

Maintenance:

For always using the printer in the best condition

Checking for Remaining Ink and Replacing Cartridges	58
Checking for Remaining Ink	58
How to Replace Ink Cartridges.....	59
Maintenance that Should Be Performed Daily	60
Disposing of Discharged Ink.....	60
Cleaning	62
About Care and Maintenance of Print Head.....	63
When Normal Cleaning Is Not Effective.....	64
Introduction.....	64
Medium/ Powerful Cleaning.....	64
Super Cleaning.....	65
Maintenance that Should Be Performed More Than Once a Month ..	67
When Manual-Cleaning Becomes Necessary	67
Manual Cleaning of Print Head.....	68
When Problems Such As Dot Drop-out are Not Cleared Up.....	73
When Problems Such As Dot Drop-out are Not Cleared Up	73
Replacing Consumable Parts	76
Replacing the Wiper	76
Replacing the Felt Wiper	79
Replacing the Separating Knife	82
When Not in Use for a Prolonged Period.....	84
Keep Performing Maintenance	84
Alarm Feature.....	84

Checking for Remaining Ink and Replacing Cartridges

Checking for Remaining Ink

Procedure

1 Press **MENU**.

2 

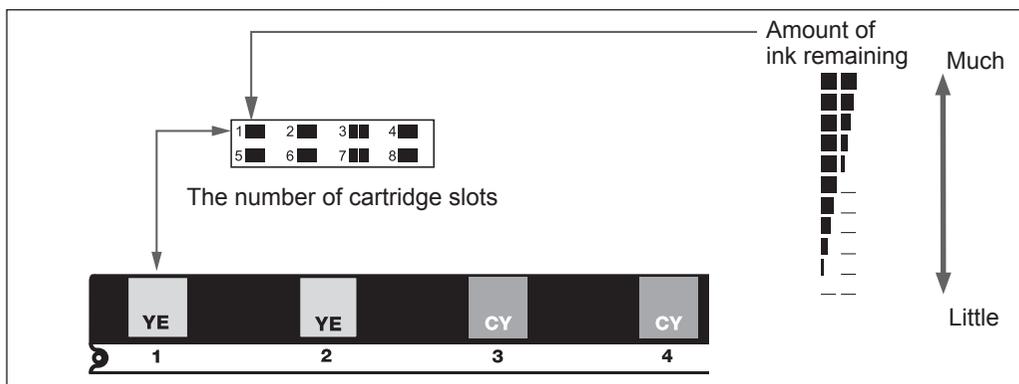
Press **▲** several times until the screen shown on the left appears.

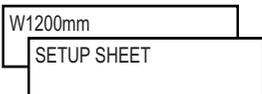
Press **▶**.



 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.

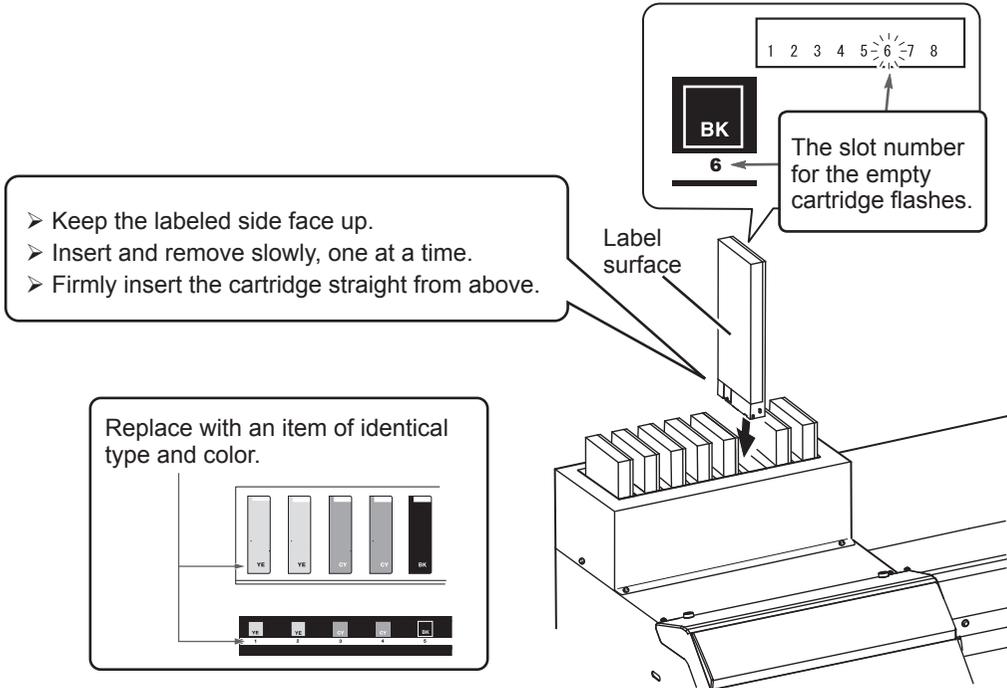


3 

Press **MENU** 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.



IMPORTANT! Important Notes on Replacing Cartridges

- Insert and remove slowly, one at a time.
- Never insert the cartridge askew by force. Insert it straight. Inserting the cartridge askew may cause ink leakage.
- 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.

Maintenance that Should Be Performed Daily

Disposing of Discharged Ink

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 until the screen shown on the left appears.

Press **▶**, and then **▲**.

4 SUB MENU
MAINTENANCE

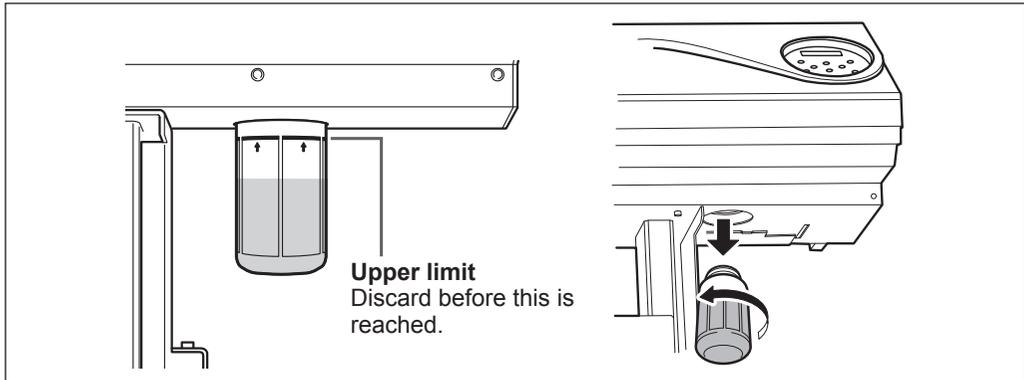
Press **▶**, and then **▲**.

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.



⚠ 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.

7 EMPTY
DRAIN BOTTLE

Attach the emptied drain bottle to the machine.

Press **ENTER**.

8 RESET DRAIN
COUNTER

Press **ENTER**.

9

MAINTENANCE
DRAIN BOTTLE

Press  to go back to the original screen.

W1200mm
SETUP SHEET

 **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.

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.

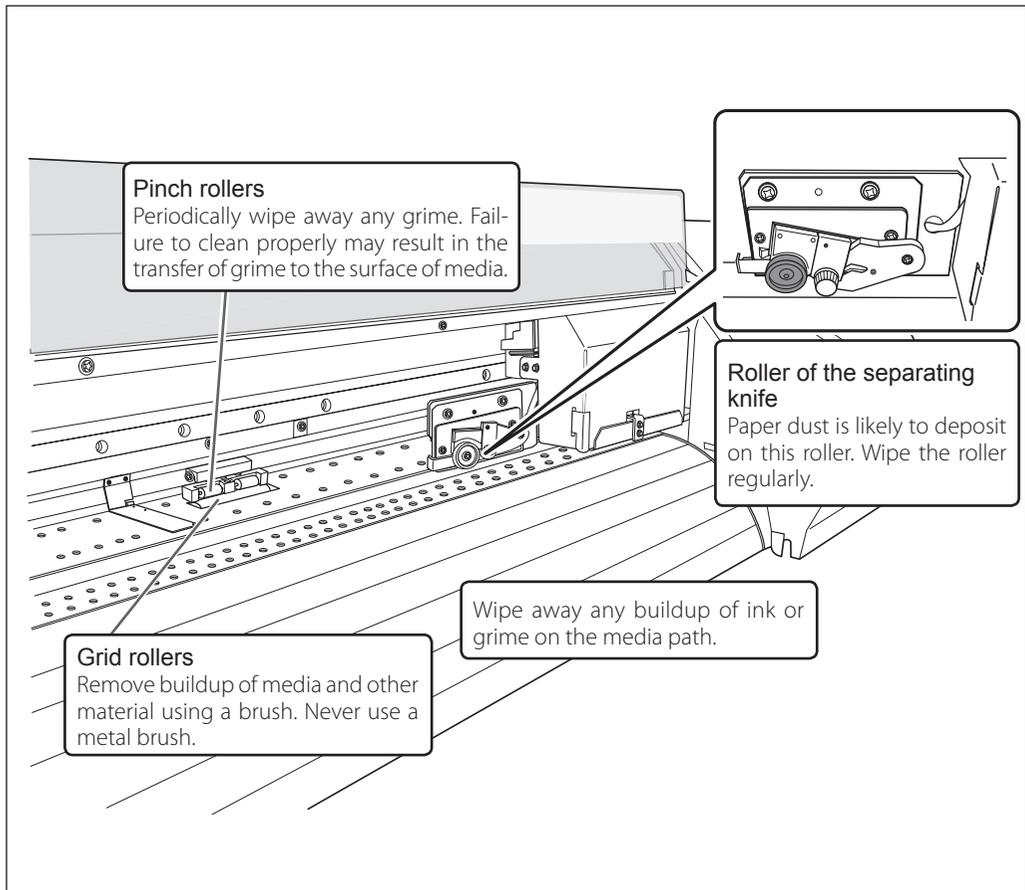
⚠️ CAUTION

Before attempting cleaning, switch off the sub power and wait until the platen and dryer cool (approximately 30 minutes). Sudden movement of the machine may cause injury, or hot components may cause burns.

Wipe away any buildup of ink or grime on the media path and other locations as daily cleaning. In particular, the pinch rollers, grid 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

➤ **Printing tests and normal cleaning**

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

☞ P. 50, "Printing Tests and Cleaning"

Periodic Care and Maintenance

➤ **Medium cleaning / Powerful cleaning / Super cleaning**

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

☞ P. 64, "Medium/ Powerful Cleaning," p. 65, "Super Cleaning"

➤ **Manual Cleaning of Print Head**

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

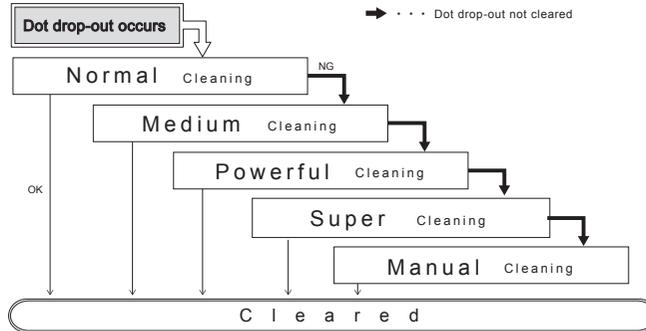
☞ P. 68, "Manual Cleaning of Print Head"

*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

Introduction

Perform cleaning in accordance with the figure shown below, when the problems such as dot drop-out are not cleared up by the normal cleaning.



Medium/ Powerful Cleaning

When the problems such as dot drop-out are not cleared up by the "normal cleaning" (p. 50, "Printing Tests and Cleaning"), try the more forceful "medium cleaning." If the condition is not improved, try the even more forceful "powerful cleaning."

POINT!

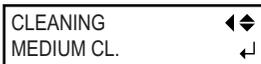
Note, however, that the medium and powerful cleaning consumes more ink than normal cleaning, and too-frequent use may damage the print head itself. Avoid using it more than necessary.

Procedure

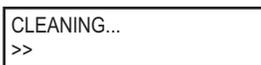
1 Press **FUNCTION**.

2 

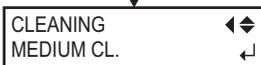
Press **▶**.

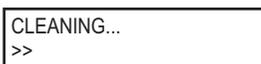
3 

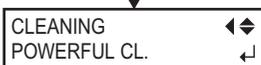
Press **▲** or **▼** and select "Medium."
When "Medium" is not effective, select "Powerful."
Press **ENTER** to enable the setting.

4 

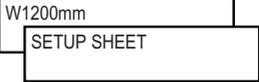
"Medium"
The screen shown in the figure appears and cleaning starts.
When it finishes, the screen shown in the figure appears again.





"Powerful"
The screen shown in the figure appears and cleaning starts.
When it finishes, the screen shown in the figure appears again.

- 5  Press  to go back to the original screen.

When Powerful Cleaning Is Not Effective

When the problems such as dot drop-out are not cleared up even by performing powerful cleaning several times, perform "Super Cleaning."

Super Cleaning

POINT!
 However, that the super cleaning consumes more ink than medium and powerful cleaning, and too-frequent use may damage the print head itself. Avoid using it more than necessary.
 ☞ P. 64, "Medium and Powerful Cleaning"

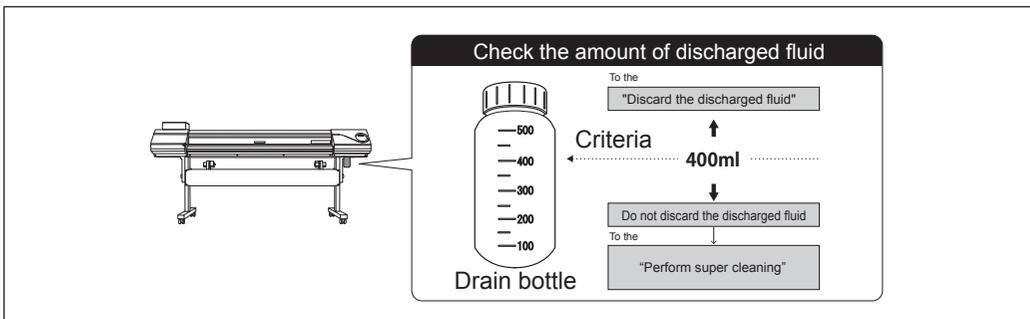
1. Select "Super Cleaning " menu.

- 1 Press  .
- 2  Press  .
- 3  Press  or  and select "Super."
 Press  to enable the setting.

2. Check the amount of the discharged fluid in the drain bottle.

- 1  Check the amount of discharged fluid and go on to the next step ("Discard the discharged fluid" or "Perform super cleaning") in accordance with the figure below.

POINT!
 Be sure not to press  before you check the amount of the discharged fluid. If you press this button, cleaning starts, and discharged fluid may spill.

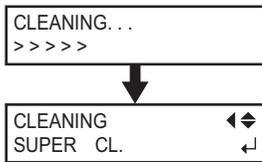


Discard the discharged fluid

- 1 Press **FUNCTION**.
- 2 Properly discard the discharged fluid in accordance with the instructions given in User's manual "Disposal of Discharged fluid."
- 3 Perform "Super Cleaning" from the first.

Perform super cleaning

- 1 Press **ENTER** to enable the setting.



"SUPER"

The screen shown in the figure appears, and cleaning starts. When it is finished, the screen shown in the figure appears again.

- 2 Press **FUNCTION** to go back to the original screen.

When Super Cleaning Is Not Effective

When the problems such as dot drop-out are not cleared up even by performing super cleaning several times, perform "Manual Cleaning of Print Head." Such cleaning can be effective when carried out periodically, according to the frequency of use.

☞ P. 68, "Manual Cleaning of Print Head"

Maintenance that Should Be Performed More Than Once a Month

When Manual-Cleaning Becomes Necessary

Perform the manual cleaning more than once a month.

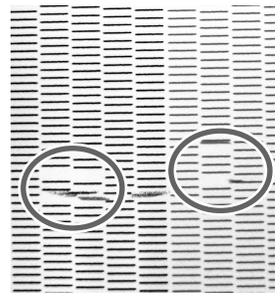
To keep the stable output condition at all times, perform the manual cleaning more than once a month. The manual cleaning takes approximately 10 minutes.

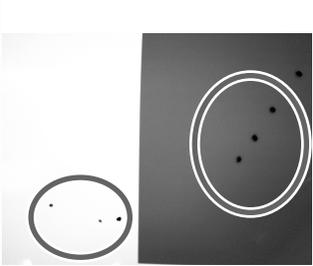
The manual cleaning is recommended when the following symptoms occur.

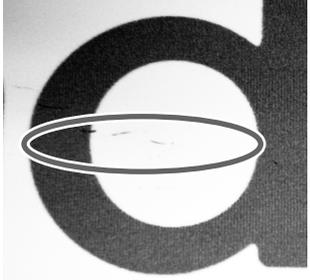
It is recommended to perform the manual cleaning when any of the symptoms given below occurs and it cannot be solved by the automatic cleaning functions such as the normal cleaning.

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

⇒ P. 76, "Replacing the Wiper" p. 79, "Replacing the Felt Wiper"

Dot drop-out or deflection

Flaws in the dot pattern are caused by dust on the print head.

Ink drips

Ink that has adhered to a dirty or dusty print head drips onto the media.

Dragging dirt

When dirt or dust accumulates on the print head it can interfere with image quality.

* 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.

Manual Cleaning of Print Head

IMPORTANT!

Important Notes on This Procedure

- Before attempting this operation, remove any media.
- To prevent the heads from drying out, finish this procedure in 30 minutes or less. A warning beep sounds after 30 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.
- Cleaning liquid is not supplied. Please purchase it from your dealer or from us.
- 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.

When a warning beep sounds during cleaning

A warning beep sounds in 30 minutes after the operation is started. At this time, stop work, and follow the procedure in step. 4 on page 69 to attach cover L and cover R, 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

MENU	◀▶
SUB MENU	▶

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

Press **▶**, and then **▲**.

4

SUB MENU	◀▶
MAINTENANCE	▶

Press **▶**.

5

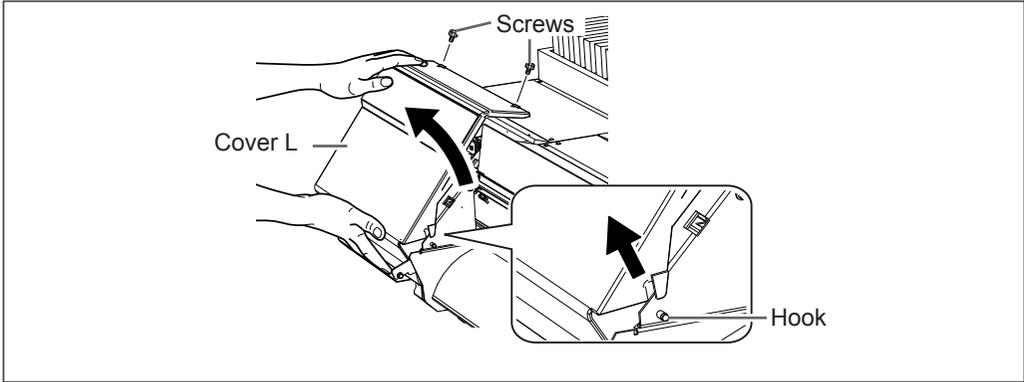
MAINTENANCE	◀▶
CLEANING	◀

Press **ENTER**.

6

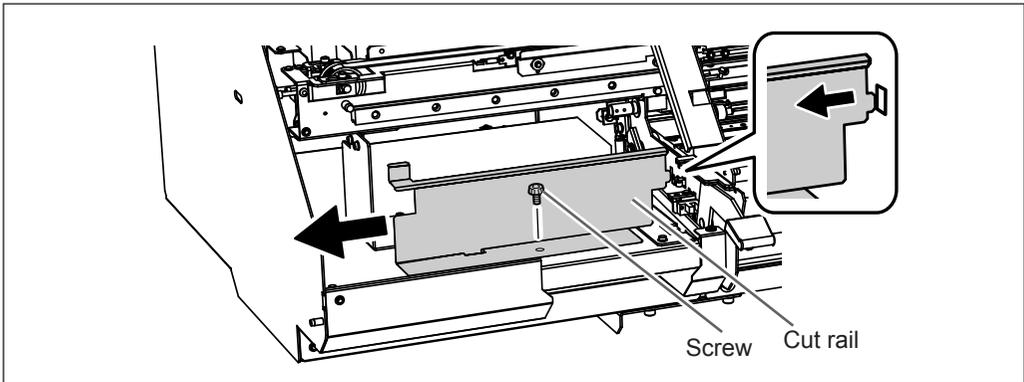
OPEN COVER L

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



REMOVE CUT RAIL

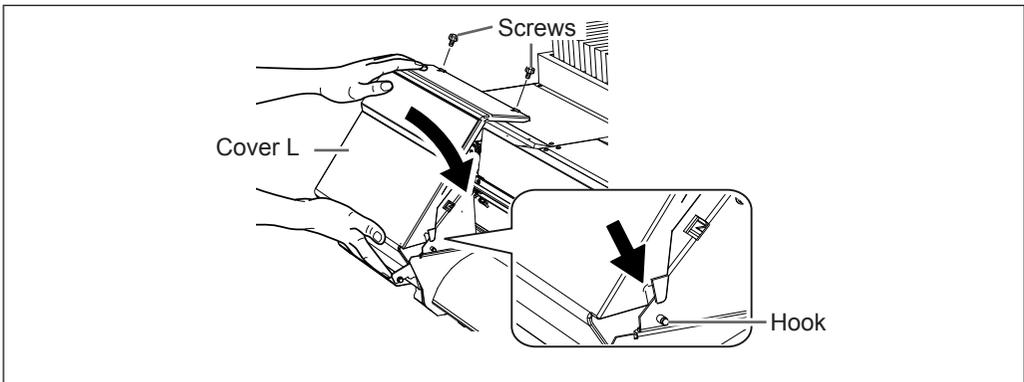
Remove the cut rail.
Press **ENTER**.



7

CLOSE COVER L

Close the cover L.



8 CLOSE FRONT COVER

When the screen shown on the left appears, close the front cover.

When the front cover is closed, the print-head carriage moves to the left side of the machine.

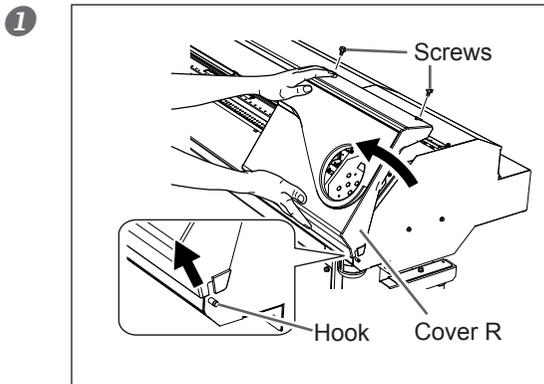
9 OPEN COVER L

Open the cover L.

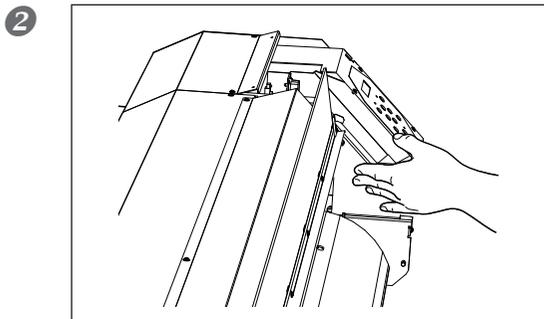
FINISHED?

Preparations are complete when this screen appears.

2. Remove cover R.



Remove the cover R.



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

3. Clean using the cleaning stick.



Moisten the cleaning stick with the cleaning liquid.

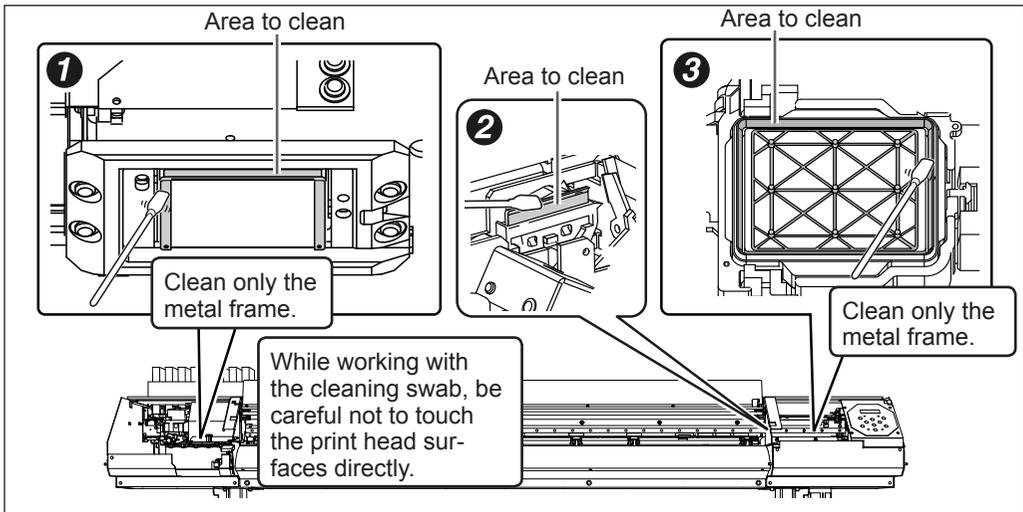
Please purchase cleaning liquid from your dealer or from us.

2 Check that the cut rail has been detached.

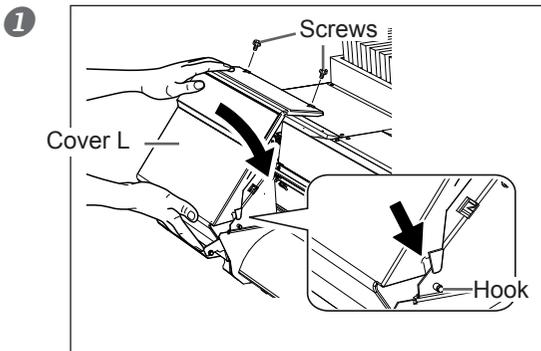
If the cut rail is not detached, close all the covers and restart the operation from the beginning. If you continue the operation as the cut rail remains attached, the print head might get broken.

3 Perform cleaning in the sequence shown in the figure below.

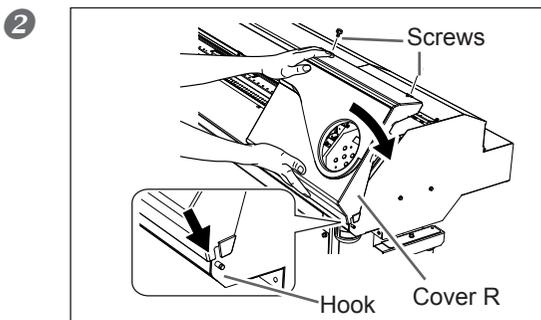
Be especially careful to clean away any fibrous dust (lint).



4. Reattach cover L, cover R, and Quit the manual cleaning menu.



Attach the cover L.



Attach the cover R.

3 Close the front cover if it is open.

4 Press **ENTER**.

5 **OPEN COVER L**

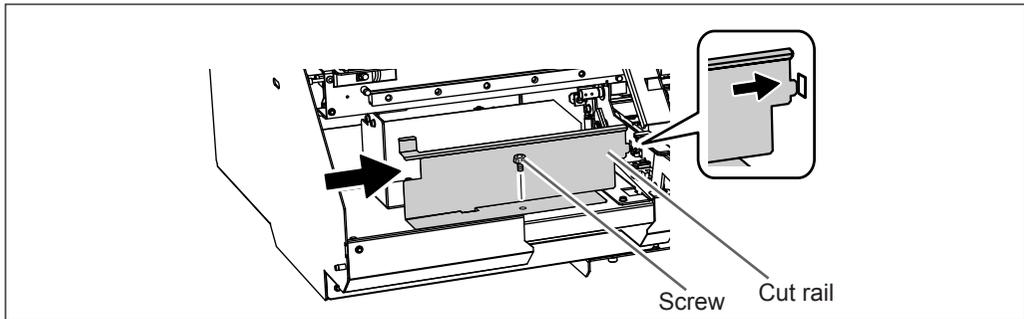
The print-head carriage moves to the right side of the machine, and then the screen shown in the figure appears.

Open the cover L.

6 **REPLACE CUT RAIL**

Replace the cut rail.

Press **ENTER**.



7 **CLOSE COVER L**

Attach the cover L.

CLEANING...
>>

The screen shown in the figure appears.

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

MAINTENANCE ◀▶
CLEANING ↵

8 **W1200mm**
SETUP SHEET

Press **MENU** to go back to the original screen.

5. 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. 50, "Printing Tests and Cleaning"

When Problems Such As Dot Drop-out are Not Cleared Up

When Problems Such As Dot Drop-out are Not Cleared Up

When flaws in the dot pattern such as dot drop-out are not cleared up even after performing cleaning using the cleaning function (normal, medium, or powerful) or manual cleaning, perform the operation described below.

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. 60, "Maintenance that Should Be Performed Daily," p. 64, "When Normal Cleaning Is Not Effective," p. 67, "Maintenance that Should Be Performed More Than Once a Month"

Procedure

1 Press **MENU**.



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

Press **▶**.

Press **▲** twice.



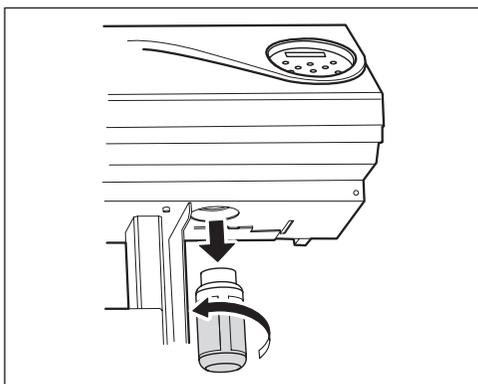
Press **▶**, and then **▲**.



Press **ENTER**.



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



CAUTION Be sure to discard the discharged ink at this step.

A large amount of ink will be discharged during this operation. Be sure to discard the discharged ink at this step. If you do not discard the discharged ink at this step, the discharged ink overflows from the drain bottle during the subsequent process.

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.

⑥

EMPTY DRAIN BOTTLE	↵
-----------------------	---

Attach the emptied drain bottle to the machine.

Press **ENTER** .

RENEWING INK . . . >>>>

The screen shown in the figure appears.

↓

INK CONTROL	◀◆
INK RENEWAL	↵

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

⑦

W1200mm
SETUP SHEET

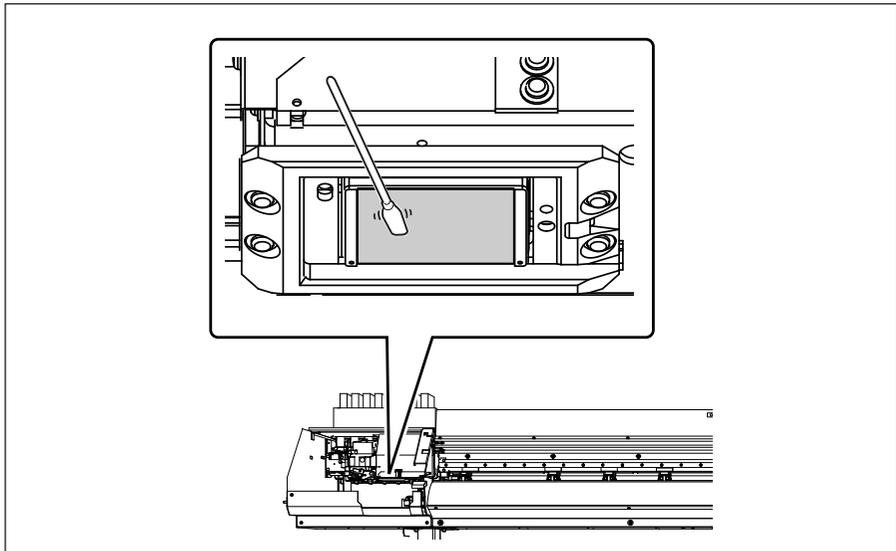
Press **MENU** **to return to the original screen.**

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.**
Please purchase cleaning liquid from your dealer or from us.
- 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

The wiper is a component that you use when cleaning the print head. 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.

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

1. Display the [REPLACE WIPER] menu.



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

2 Remove any media from the platen.

3 Press **MENU**.



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

Press **RIGHT**, and then **UP**.

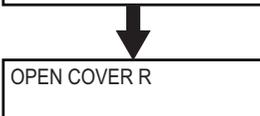


Press **RIGHT**, and then **DOWN**.

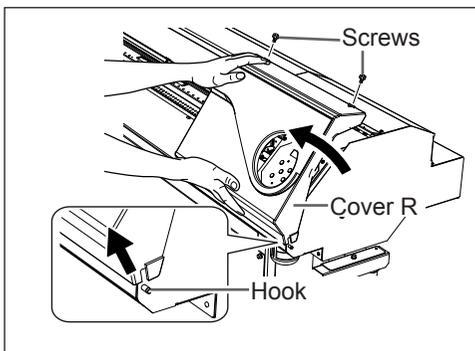


Press **ENTER**.

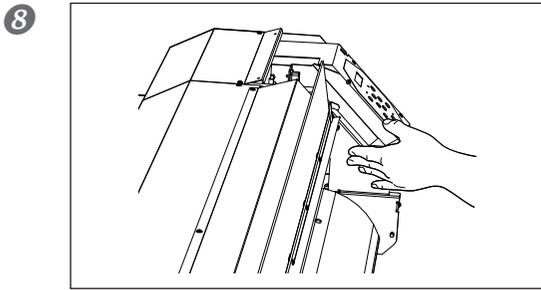
The print-head carriage moves to a location where wiper replacement is possible, and then the screen shown in the figure appears.



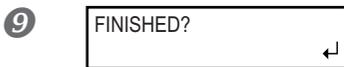
7



Remove the cover R.



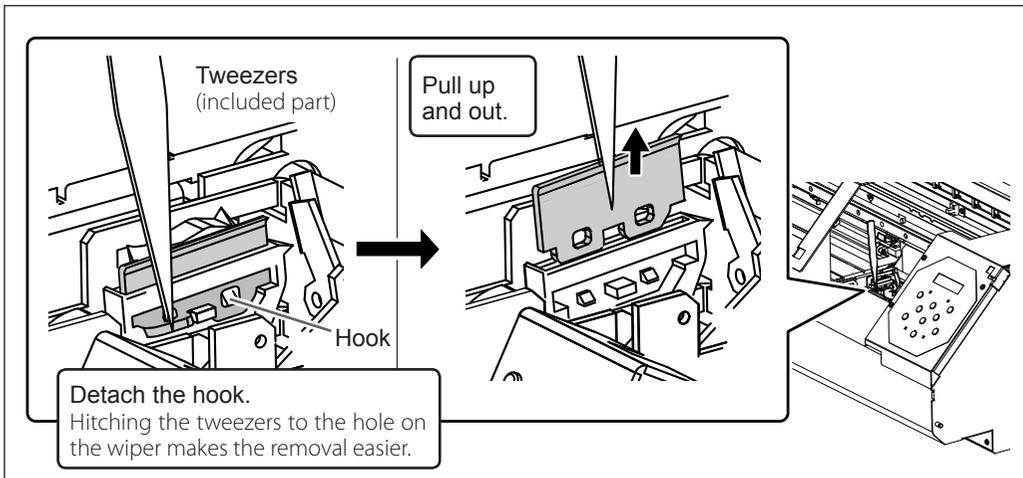
Touch the location shown in the figure to discharge any static electricity.



Preparations are complete when this screen appears.

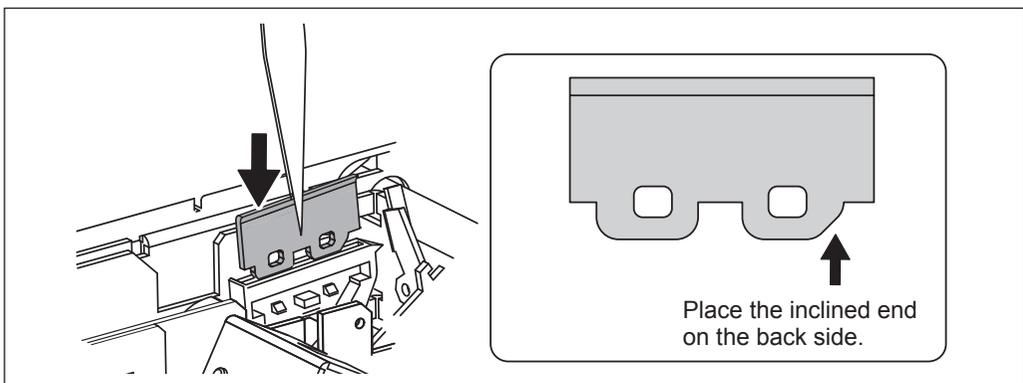
2. Replace the wiper.

1 Detach the old wiper.

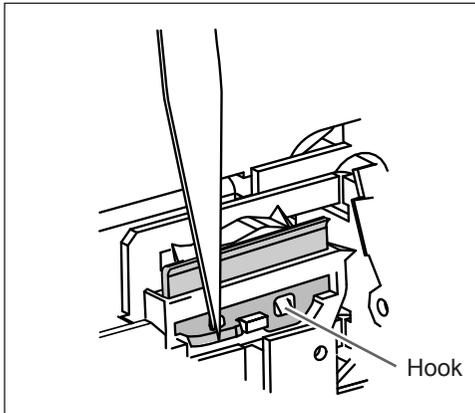


2 Insert the new wiper.

Place the inclined end on the back side. If the wiper is placed inversely, the proper cleaning becomes impossible.



3

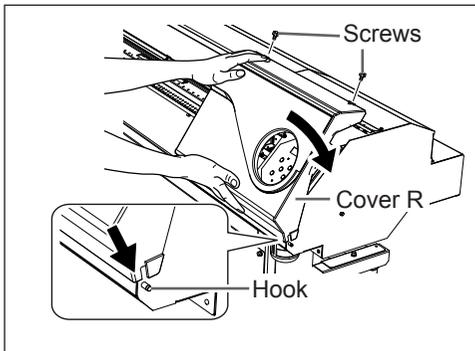


Attach the hook.

Make sure to attach the hook. Otherwise it cases dot-drop out or else.

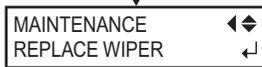
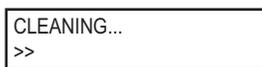
3. Reattach the cover R, and quit the wiper replacement menu.

1



Attach the cover R.

2 Press **ENTER**.



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

3



Press **MENU** 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. 50, "Printing Tests and Cleaning"

Replacing the Felt Wiper

The felt wiper is a component that you use when cleaning the print head. 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 felt wiper, contact your authorized Roland DG Corp. dealer.

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.

1. Enter the felt wiper replacement menu.

3 Maintenance



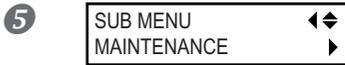
When the message shown in the figure appears, press **ENTER**.

2 Remove any media.

3 Press **MENU**.



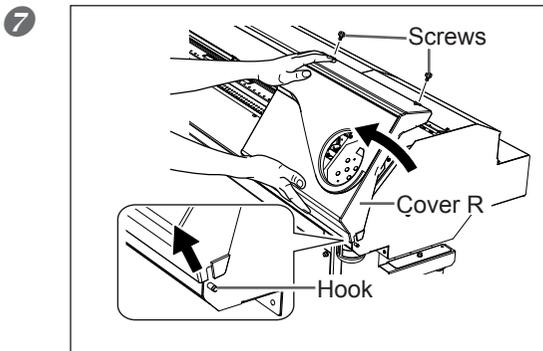
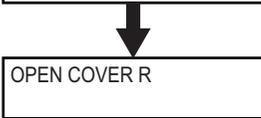
Press **DOWN** several times until the screen shown on the left appears. Press **RIGHT**, and then **UP**.



Press **RIGHT**. Press **DOWN** twice.

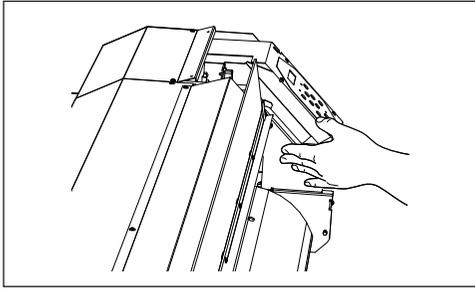


Press **ENTER**. The print-head carriage moves to a location where felt wiper replacement is possible, and then the screen shown in the figure appears.



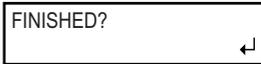
Remove the cover R.

8



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

9

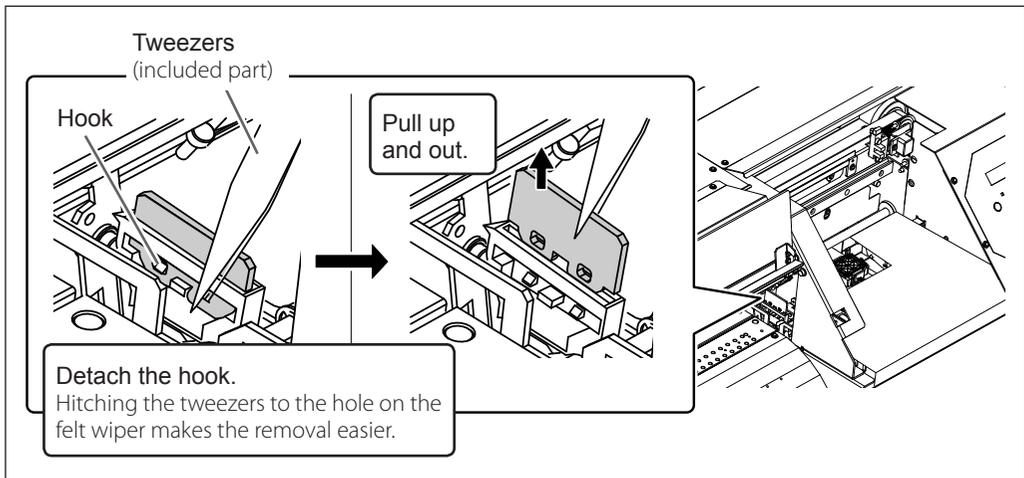


Preparations are complete when this screen appears.

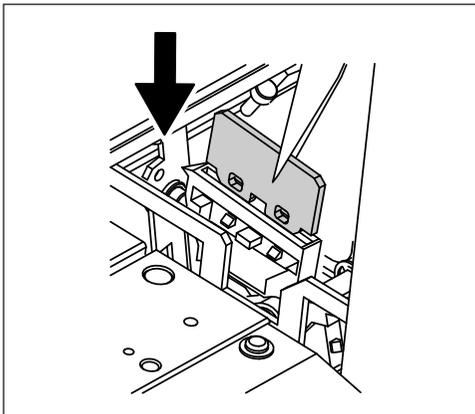
2. Replace the felt wiper.

1

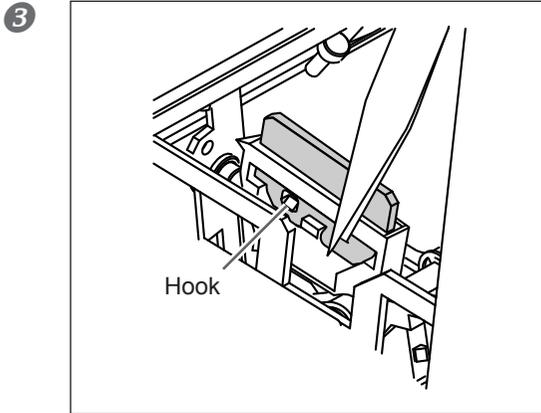
Detach the old felt wiper.



2



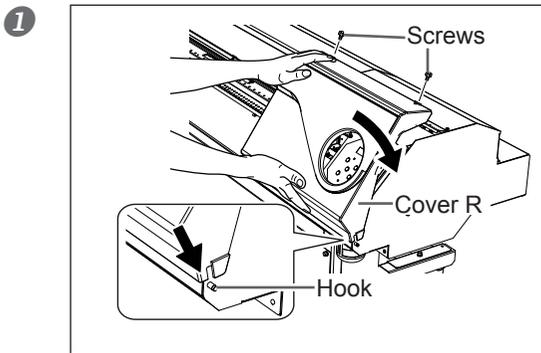
Insert the new felt wiper.



Attach the Hook.

Make sure to attach the hook. Otherwise it cases dot-drop out or else.

3. Reattach the cover R, and quit the felt wiper replacement menu.

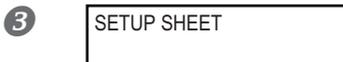


Attach the cover R.

2 Press **ENTER**.



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



Press **MENU** 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. 50, "Printing Tests and Cleaning"

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 Remove any media.

2 Press **MENU**.



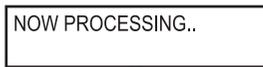
Press **▼** several times until the screen shown on the left appears. Press **▶**, and then **▲**.



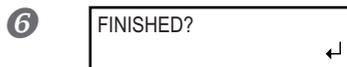
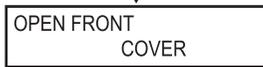
Press **▶**.



Press **▼** several times to display the screen shown on the left. Press **ENTER**.

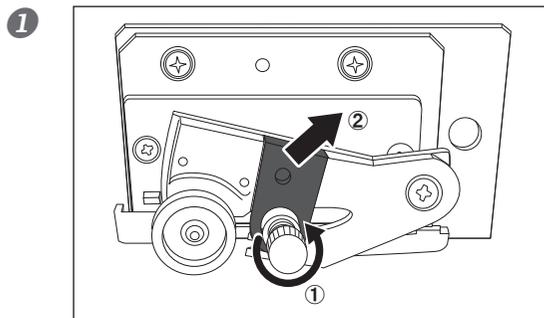


The carriage moves to the position where the knife can be replaced, and the screen shown in the figure appears.



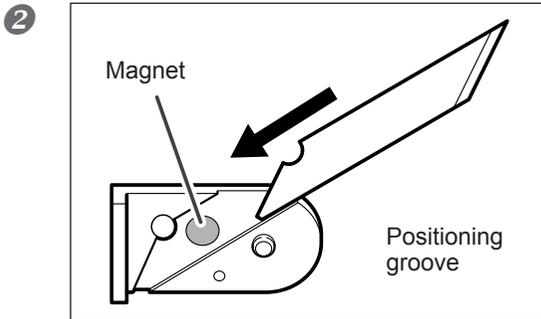
Open the front cover. Preparations are complete when this screen appears.

2. Replace the separating knife



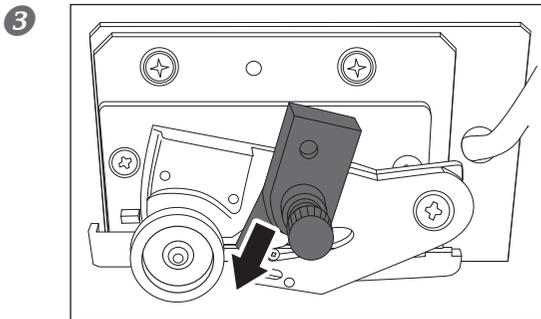
Remove the separating knife.

- 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.

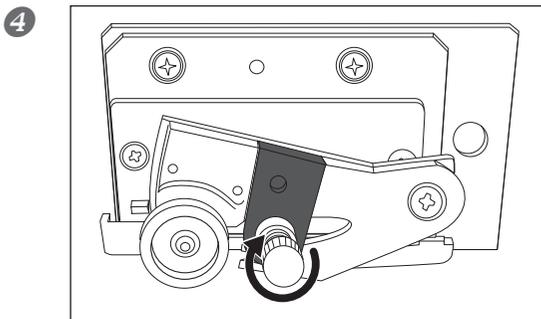


Install a new knife.

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.

3. Quit the blade replacement menu.

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

2 SETUP SHEET

Press **MENU** to go back to the original screen.

When Not in Use for a Prolonged Period

Keep Performing Maintenance

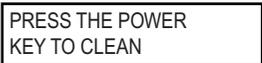
Switch On the Power Once a Month

Switch on the sub power once a month. When you turn on the power, the machine automatically performs some operations such as those to keep the print head from drying out. Allowing the machine to stand completely unused for a prolonged period may damage the print head, 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). Temperatures that are too high may degrade the ink and cause malfunction. Temperatures that are too low may cause the ink to freeze and damage the heads.

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. Be sure to always switch on the printer's main power even if the printer is not used for a prolonged period.

Chapter 4

Part of Practice

Fully Utilizing Preset Function.....	86
Saving Various Settings as a Name Assigned Preset	86
Loading a Saved Preset	88
Fully Utilize the Media Heating System	89
What Is the Media Heating System?	89
Making the Temperature Setting for the Media Heating System.....	89
Control of Media Heating System during Preheating	91
Drying the Trailing Edge of the Printing Area on the Dryer.....	91
Setting the Drying Time after Printing.....	92
Fully Utilizing the Correction Function	93
Correcting for Misalignment in Bidirectional Printing	93
Correcting for Misalignment in Bidirectional Printing More Precisely.....	94
Alleviating Horizontal Bands and the Like (feed correction function).....	94
Accommodating to the Types and Condition of Media.....	96
Adjusting Head Height to Match Media Thickness	96
Using Transparent Media	97
Printing Hard-to-dry Media	99
Using the Media Easy to be Winkled/Hard to be Fed.....	99
Speeding Up Output for Narrow Media	100
Expanding the Printing Area by Reducing the Margins	101
Preventing Soiling of the Media and Dot Drop-out	102
Using Sticky Media	103
Using Media Take-up System	104
Using Media Take-up System.....	104

Fully Utilizing Preset Function

Saving Various Settings as a Name Assigned Preset

Procedure

1 Press **MENU**.

2

MENU	◀▶
PRESET	▶

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

3

PRESET	◀▶
SAVE	▶

Press **▶**.

4

SAVE	◀▶
NAME1	↵

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

The present menu settings are saved.

5

SET 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

SET NAME	◀▶▶
SAMPLE_	↵

Press **▲** **▼** to enter a character.

Enter the following characters in the same way.

When entries are completed, press **ENTER** to enable the setting.

7

W1200mm
SETUP SHEET

Press **MENU** 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.

[PRINT] (Print heater), [DRYER]	☞ P. 89, "Making the Temperature Setting for the Media Heating System"
[PREHEATING]	☞ P. 91, "Control of Media Heating System during Preheating"
[FEED FOR DRY]	☞ P. 91, "Drying the Trailing Edge of the Printing Area on the Dryer"
[DRYING TIME]	☞ P. 92, "Setting the Drying Time after Printing"
[ADJUST BI-DIR SIMPLE SETTING]	☞ P. 93, "Correcting for Misalignment in Bidirectional Printing"
[ADJUST BI-DIR DETAIL SETTING]	☞ P. 94, "Correcting for Misalignment in Bidirectional Printing More Precisely"
[CALIBRATION]	☞ P. 94, "Alleviating Horizontal Bands and the Like (feed correction function)"
[SHEET TYPE], [SHEET WIDTH], [SHEET POS.]	☞ P. 97, "Using Transparent Media"
[SCAN INTERVAL]	☞ P. 99, "Printing Hard-to-dry Media"
[VACUUM POWER]	☞ P. 99, "Using the Media Easy to be Winkled/Hard to be Fed"
[FULL WIDTH S]	☞ P. 100, "Speeding Up Output for Narrow Media"
[SIDE MARGIN]	☞ P. 101, "Expanding the Printing Area by Reducing the Margins"
[MEDIA RELEASE]	☞ P. 103, "Using Sticky Media"

☞ P. 88, "Loading a Saved Preset"

Loading a Saved Preset

Procedure

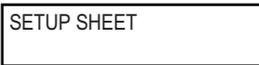
1 Press **MENU**.

2 

Press  several times to display the left figure.
Press  twice.

3 

Press   to select a name to be called.
Press  to enable the setting.



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

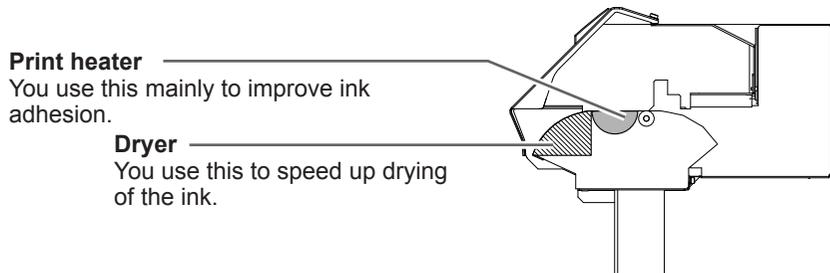
Description

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 is illuminated, goes dark. If this happens, raise the loading lever, make sure the media is loaded straight, then lower the loading lever again to make output possible.

Fully Utilize the Media Heating System

What Is the Media Heating System?

This machine is equipped with a media heating system that warms the media. You use this mainly to improve ink adhesion and also dry the ink. You can adjust the temperature settings to match the type of media and the printing speed.



⚠️ WARNING

CAUTION: high temperatures

The platen and dryer become hot. Exercise caution to avoid fire or burns.

⚠️ WARNING

Remove any loaded media or switch off the sub power when printing is not being performed.

The continued application of heat at a single location may cause fire or produce toxic gases.

⚠️ WARNING

Never use media that cannot withstand the heat.

Doing so may result in fire or the release of toxic gases, or may degrade the media.

⚠️ WARNING

Never use the platen or dryer for any purpose for which they are not intended, such as to dry clothing.

Doing so may cause overheating, resulting in fire or accident.

Use at an ambient temperature of 20 to 32°C (68 to 90°F).

If the machine is used at an ambient temperature lower than 20°C (68°F), then depending on the type or width of the media, wrinkling or temperature-caused unevenness may occur. If this happens, try lowering the temperature of the media heating system by about 2°C. To obtain stable printing results, however, the machine should be used at an ambient temperature of 20 to 32°C (68 to 90°F).

Making the Temperature Setting for the Media Heating System

Procedure

1 Press **FUNCTION**.

2

FUNCTION	◀▶
HEATER CONFIG	▶

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

3

HEATER CONFIG	◀▶
DRYER	34°C ▶

Press **▲** **▼** to select **[PRINT]** (print heater) or **[DRYER]**.
Press **▶**.

↑
Current temperature of the dryer



Press **▲** **▼** to select a temperature.
 You can set to "OFF." When set to "OFF," the media heating system does not operate at all.
 Press **ENTER**.

POINT! **PRINT HEATER:** General Guide for Setting Temperature
 You use this mainly to improve ink adhesion and inhibit smudging.
 If the ink forms lumps or smudges, raise the temperature. Note, however, that a temperature that is too high may degrade the media or cause it to wrinkle.

POINT! **DRYER:** General Guide for Setting Temperature
 When ink drying is poor, raise the temperature. Note, however, that a temperature that is too high may degrade the media or cause it to wrinkle.



Press **FUNCTION** to go back to the original screen.

Description

Simply switching on the power does not make the media heating system warm up to the preset temperature. The temperature rises until preset temperature when the media is loaded correctly and **SETUP** lights up.

- Depending on the usage environment, the temperature of the print heater or dryer may become higher than the preset temperature, but this does not represent a problem.

POINT! **Hints and Tips for Temperature Setting**
The relationship between the print mode and temperature
 The optimum temperature of the media heating system varies according to the media type and/or printing method. When you use a high-speed print mode, set the temperature higher.

Other points to remember
 When recommended settings for temperature, print mode, and other values are given as the use condition of your media, use the suggested settings.

Default Setting

Water-based ink model

[PRINT] : OFF
 [DRYER] : OFF

Solvent-based ink model

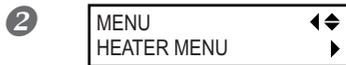
[PRINT] : 35 °C (94 °F)
 [DRYER] : 40 °C (104 °F)

Control of Media Heating System during Preheating

Note: Preheating: State that the main power and the sub power are switched on and **SETUP** is not lighted (state that media setup is not completed)

Procedure

1 Press **MENU**.



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



Press **▶**.



Press **▲** **▼** to select setting.

MENU: The system performs heating to the preset temperature at all times, without lowering the temperature during preheating.

30 °C: The system keeps 30 °C during preheating.

OFF: The system switches the media heating system off during preheating.

Press **ENTER** to enable the setting.



Press **MENU** to go back to the original screen.

Default Setting

Water-based ink model

[PREHEATING]: OFF

Solvent-based ink model

[PREHEATING]: 30 °C (86 °F)

Drying the Trailing Edge of the Printing Area on the Dryer

Procedure

1 Press **MENU**.



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



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



Press **MENU** to go back to the original screen.

Description

- "ENABLE" : media feed is performed until the trailing edge of the printing area is positioned on the dryer. The margin between the print-end position and the next print-start position is set to a value of 100 millimeters.
- "DISABLE" : media feed stops simultaneously when printing ends. This means that the trailing edge of the printing area is not fed to the dryer unless you continue with a subsequent printing operation.

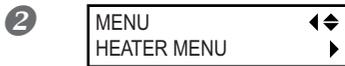
Default Setting

[FEED FOR DRY]: DISABLE

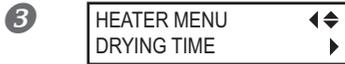
Setting the Drying Time after Printing

Procedure

1 Press **MENU**.



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



Press **▶**.



Press **▲** **▼** to select the interval.
Press **ENTER** to enable the setting.



Press **MENU** to go back to the original screen.

Description

Set the interval after the 1st page is printed. The next operation is not started until the set time passes. **PAUSE** is lighting during the interval. When pressing **PAUSE** while **PAUSE** is lighting, the interval is finished and the next operation is started. When holding on **PAUSE** while **PAUSE** is lighting, output is canceled.

Default Setting

[DRYING TIME]: 0 min

Fully Utilizing the Correction Function

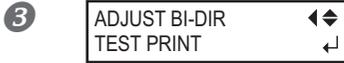
Correcting for Misalignment in Bidirectional Printing

Procedure

1 Press **MENU**.



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



Press **ENTER**.

A test pattern is printed.

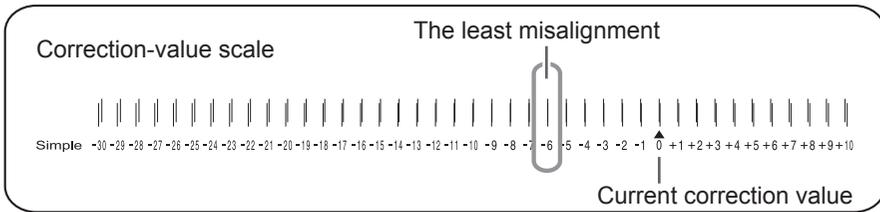
When printing is completed, press **▼** **▶** in this order.



Press **▲** **▼** to select a correction value.
Press **ENTER** to enable the setting.

To decide a Correction Value

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



5 Press **MENU** 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.

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 p. 41 "Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)"

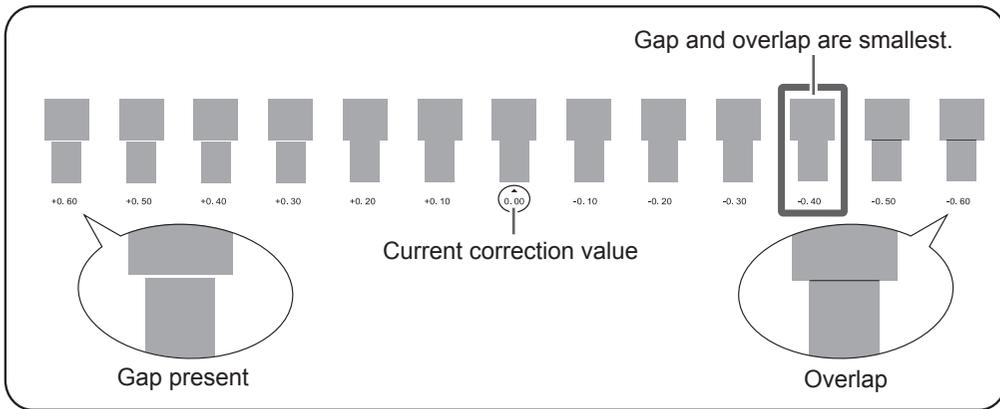
Alleviating Horizontal Bands and the Like (feed correction function)

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.
- 5  Press **▲** **▼** to select a correction value.
Press **ENTER** to enable the setting.

To decide a Correction Value

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



- 6 Press **MENU** to go back to the original screen.

Description

The movement distance of media experiences subtle changes due to the thickness of the media and the temperature of the media heating system. 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 and the media heating system. Repeat the process of printing a test pattern and entering a correction value several times to find the optimal value.

Default Setting

[SETTING]: 0.00%

Accommodating to the Types and Condition of Media

Adjusting Head Height to Match Media Thickness

Procedure

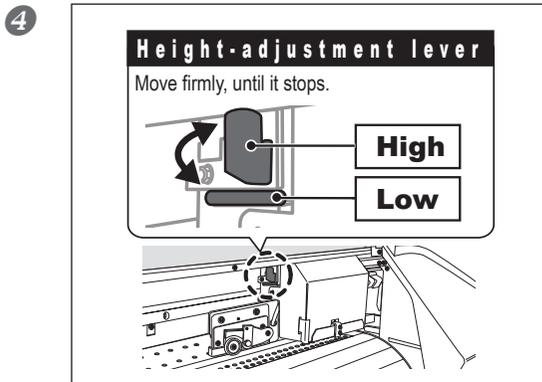
1 Press **MENU**.

2 

Press  several times to display the left figure.
Press .

3 

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



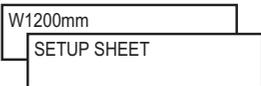
Move the height-adjustment lever to adjust the head height.

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

5 

Close the front cover.

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

6 

Press **MENU** to go back to the original screen.

Description

Depending on the media, media may wrinkle or come loose from the platen during printing, increasing the chance of contact with 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. 93, "Correcting for Misalignment in Bidirectional Printing," p. 41, "Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)," p.102, "Preventing Soiling of the Media and Dot Drop-out"

Using Transparent Media

1. Set the media type to "CLEAR."

1 Press **MENU**.

2

MENU	◀▶
SUB MENU	▶

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

3

SHEET TYPE	◀▶
OPAQUE ▶ CLEAR	↵

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

4

SETUP SHEET

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

2. Make the setting for the media width.

1 Press **MENU**.

2

MENU	◀▶
SUB MENU	▶

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

3

SUB MENU	◀▶
SHEET WIDTH	▶

Press **▼**.
Press **▶**.

4

SHEET WIDTH	◀▶
1371mm ▶ 1200mm	↵

Use **▲** **▼** to enter the media width.
Press **ENTER** to enable the setting.

5

SUB MENU	◀▶
SHEET WIDTH	▶

Press **◀** to go back to the previous screen.

3. Load transparent media to the printer.

Refer to p. 33, "Loading Media" and load media on the machine.

4. Make the setting for the location of the right edge of the media.

1

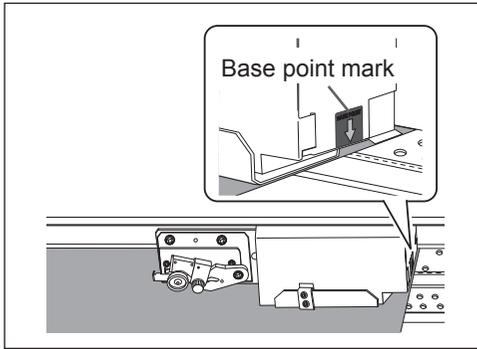
SHEET POS.	◆
SAVE	↵

Press **▼**.
Press **▶**.

The print heads move to the position now set.

2 Open the front cover.

3



Move the head (base point mark) to the right end of the media using ◀ ▶.

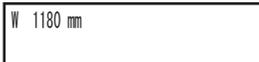
Even while the menu is being set, it is forcibly terminated after a fixed interval passes to prevent the heads from drying out.

4

After positioning, close the front cover.

Press **ENTER** to enable the setting.

5



Press **MENU** to go back to the original screen.

Description

While the width and position of opaque media can be read automatically, those of transparent media cannot read automatically. Therefore, you need to set manual reading for them. To set manual reading, set [SHEET TYPE] to "CLEAR" to disable detection of the leading edge and trailing edge of the media. Only in this setting, you can change the media width and position. The specified width and position are retained and used for printing next time "CLEAR" is selected. To cancel the operation while you are setting [SHEET POS.], select "CANCEL" using ▼, close the front cover, and then press **ENTER**. If it takes time to make the settings of the [SHEET POS.] menu, the menu is forcibly terminated to prevent the heads from drying out.

When "CLEAR" is set, printing is not stopped even if media runs out during printing. In this case, press **PAUSE** immediately to cancel printing. Otherwise, the platen might get dirty with ink, or ink might enter the device and damage it. For this reason, usually "OPAQUE" is set so that the edges of the media can be automatically detected.

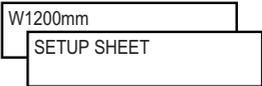
Default Setting

[SHEET TYPE]: OPAQUE

[SHEET WIDTH]: 1615 mm

Printing Hard-to-dry Media

Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the left figure.
Press **▶**.
- 3  Press **▼** several times to display the left figure.
Press **▶**.
- 4  Press **▲** **▼** to select a value.
Larger values produce progressively slower movement of the media, enabling you to extend the drying time accordingly.
Press **ENTER** to enable the setting.
- 5  Press **MENU** to go back to the original screen.

Description

You use this when ink dries poorly even when the media heating system is used.

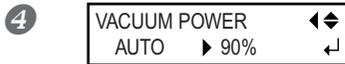
Default Setting

[SCAN INTERVAL]: OFF

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



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 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.

Default Setting

[VACUUM POWER]: AUTO

4
Part of
Practice

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 to go back to the original screen.



Description

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

Default Setting

Water-based ink model

[FULL WIDTH S]: OFF

Solvent-based ink model

[FULL WIDTH S]: FULL

Expanding the Printing Area by Reducing the Margins

Procedure

1 Press .



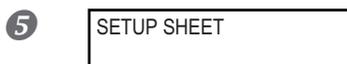
Press several times to display the left figure.
Press .



Press several times to display the left figure.
Press .



Use to select [5mm].
Press to enable the setting.



Press to go back to the screen.

Description

This makes the setting for distance from the left or right media clamp to the corresponding left or right edge of the printing area. You can select either "5 mm", "10 mm," or "25 mm." Setting this to "5 mm" lets you expand the printing area.

☞ P. 130, "Maximum Area and Margins"

Note, however, that when you're using transparent media, setting this to "5 mm" may result in printing on top of the media clamps.

Default Setting

[SIDE MARGIN]: 10 mm

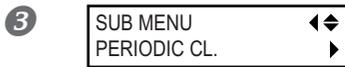
Preventing Soiling of the Media and Dot Drop-out

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

Current setting Setting after change

Automatic cleaning is performed every time before printing starts.
10 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** 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. Use this feature at such times.

- 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 "10 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 "10 min" to "990 min," results in longer printing times.

Default Setting

[PERIODIC CL.]: NONE

Using Sticky Media

Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the left figure.
Press **▶**.
- 3  Press **▼** several times to display the left figure.
Press **▶**.
- 4  Press **▲** **▼** to select "ENABLE."
Press **ENTER** to enable the setting.
- 5  Press **MENU** to go back to the original screen.

Description

Some types of media may tend to stick to the platen. Starting printing with the media sticking to the platen may make normal media feed impossible and cause the media to jam. When you're using such media, set the [MEDIA RELEASE] menu item to "ENABLE." This peels off the media if sticking before starting printing. Note, however, that media feed may be unstable when printing is performed after executing this operation. Leave this menu item set to "DISABLE" unless you specifically need to change it.

Default Setting

[MEDIA RELEASE]: DISABLE

Using Media Take-up System

Using Media Take-up System

Note: The media take-up system (hereinafter called take-up system) is optional part.

Note: For information on how to assemble and install the take-up system, refer to the user's manual of the take-up system.

4

Part of
Practice

Chapter 5

To Administrators

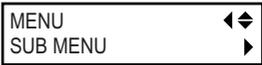
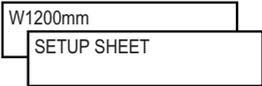
Output Operation Management	106
Printing a System Report.....	106
Determining What Happens When Ink Runs Out.....	106
Displaying the Amount of Media Remaining.....	107
Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed	108
Printing the Amount of Remaining Media	109
System Management of Printer	110
Setting for the Menu Language and the Units of Measurement	110
Setting the Interval until Activation of the Sleep Mode (Power Saving Function).....	110
Viewing Information about the System of This Machine.....	111
Returning All Settings to Their Initial Values.....	112

Output Operation Management

Printing a System Report

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

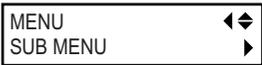
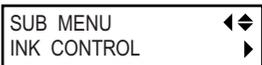
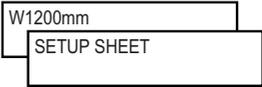
Procedure

- 1 Press **MENU**.
- 2  Press **▼** several times to display the left figure.
Press **▶**.
- 3  Press **▼** several times to display the left figure.
Press **ENTER**.
Start printing.
- 4  Press **MENU** 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**.
- 2  Press **▼** several times to display the left figure.
Press **▶**.
Press **▲** twice.
- 3  Press **▶** twice.
- 4  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.
- 5  Press **MENU** 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**.
- 2  Press **▲** to display the left figure.
Press **▶**, and then **▼**.
- 3  Press **▶**.
- 4  Press **▲** **▼** to set the current amount of media remaining.
Press **ENTER** to enable the setting.
- 5  Press **MENU** 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

SET LENGTH	◀▶
0.0 m	▶ 25.0 m
	↵

 every time when a media is changed.

Procedure

1 Press **MENU**.

2

MENU	◀▶
SHEET REMAIN	▶

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

3

SHEET REMAIN	◀▶
AUTO DISPLAY	▶

 Press **▶**.

4

AUTO DISPLAY	◀▶
DISABLE	▶ ENABLE
	↵

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

If you set to "ENABLE," you must set the [SHEET TYPE] menu to "OPAQUE."
☞ P. 97, "Using Transparent Media"

5 Press **MENU** to go back to the original screen.

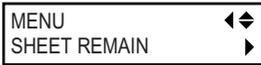
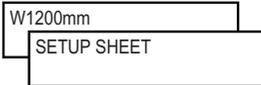
Description

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 [SHEET TYPE] menu (refer to P. 97, "Using Transparent Media") to "OPAQUE." When [SHEET TYPE] is set to "CLEAR," [SHEET REMAIN] is not displayed automatically.

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 **▲** to display the left figure.
Press **▶**.
- 3  Press **ENTER**.
Start printing.
- 4  Press **MENU** 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

MENU LANGUAGE	↕
JAPANESE	↵

 Use **▲** **▼** to select the display (menu) language.
Press **ENTER** to enable the setting.
- 3

LENGTH UNIT	↕
mm ▶ INCH	↵

 Use **▲** **▼** to select the measurement unit for length.
Press **ENTER** to enable the setting.
- 4

TEMP. UNIT	↕
°C ▶ °F	↵

 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

MENU	↔
SUB MENU	▶

 Press **▼** several times to display the left figure.
Press **▶**.
- 3

SUB MENU	↔
SLEEP	▶

 Press **▲** several times to display the left figure.
Press **▶** twice.
- 4

INTERVAL	↔
30min ▶ 15min	↵

 Use **▲** **▼** to make the setting.
Press **ENTER** to enable the setting.
- 5

W1200mm
SETUP SHEET

 Press **MENU** to go back to the original screen.

Default Setting

[INTERVAL]: 30min

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**.

2 **MENU**
SYSTEM INFO.

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

You can view the following information.

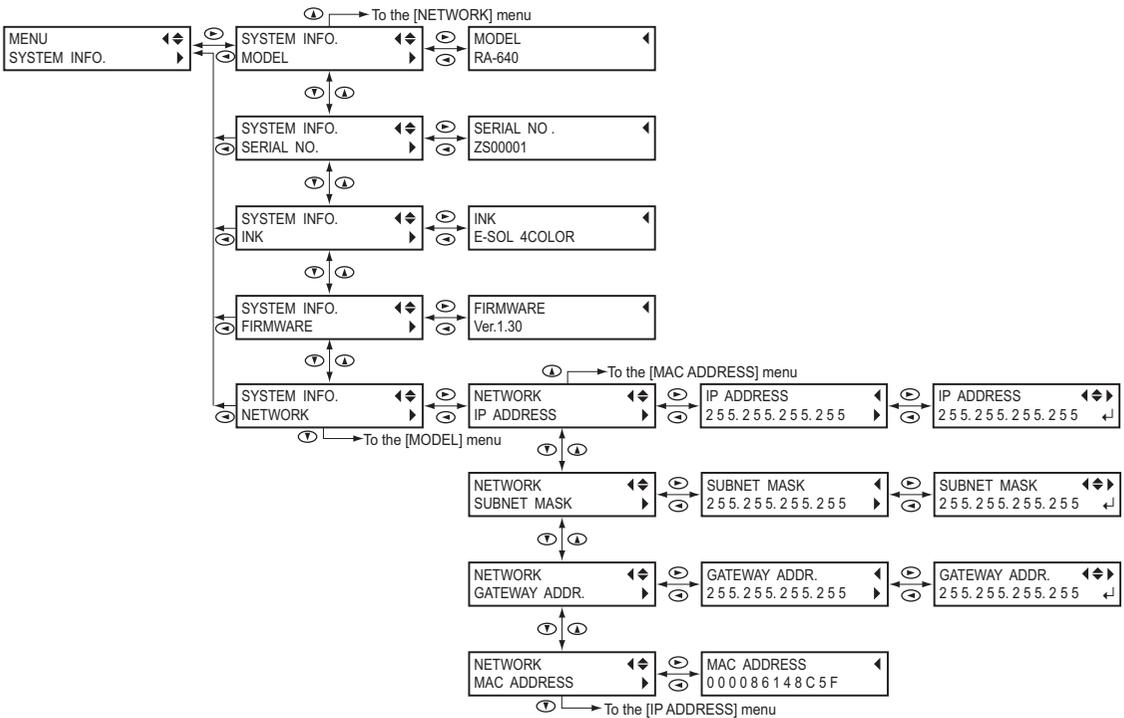
[MODEL]: Model name

[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 6

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

Printer Does Not Start Up!	114
The Printer Unit Doesn't Run.....	114
The Media Heating System Doesn't Warm Up	115
Cannot cut off the media	115
Attractive Printing is Impossible	116
Printed Results Are Coarse or Contain Horizontal Stripes	116
Colors Are Unstable or Uneven	117
The Media Becomes Soiled When Printed.....	118
Media Jam Occurs!	119
The Media Jams	119
Media Feed is Not Smooth	120
Media Wrinkles or Shrinks	120
Media Feed Is Not Straight.....	121
Media Feed Is Not Smooth.....	121
Print Head Stops Moving. Why?	122
What to Do First.....	122
If the Heads Still Do Not Move	122
A Message Appears	124
An Error Message Appears.....	126

Printer Does Not Start Up!

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. 32, "Switch On!"

Is **SETUP** illuminated?

Output is not performed when **SETUP** is not illuminated. Lower the loading lever.

☞ P. 51, "Getting Ready to Receive Data from a Computer"

Is the front cover open?

Close front cover, cover L and cover R.

Is the top menu displayed?

Top menu



W 1 2 0 0 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**, once or twice to display the menu.

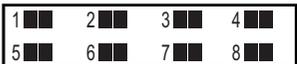
☞ P. 51, "Getting Ready to Receive Data from a Computer"

Is **PAUSE** illuminated?

When **PAUSE** lights up, operation is paused. To resume, press **PAUSE**. **PAUSE** goes dark and outputting resumes.

☞ P. 54, "Pausing and Canceling Output"

Has ink run out?



1 ■■■ 2 ■■■ 3 ■■■ 4 ■■■
5 ■■■ 6 ■■■ 7 ■■■ 8 ■■■

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 starts.

☞ P. 59 "How to Replace Ink Cartridges," p. 106 "Determining What Happens When Ink Runs Out"

Is a message displayed on the screen?

☞ P. 124 "A Message Appears," p. 126, "An Error Message Appears"

Is the cable connected?

Connect the cable securely.

☞ "Setup Guide"

Is the network routing appropriate?

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 the cable connections are secure and no problem is found in the network itself, make sure that the IP address and other such settings are appropriate. 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 settings have no typing errors, and for other such problems.

☞ "Setup Guide" , p. 111 "Viewing Information about the System of This Machine"

The Media Heating System Doesn't Warm Up

Is media loaded?

The media heating system does not warm up to the preset temperature when **SETUP** is dark (by default). Load media and wait for the machine to warm up.

☞ P. 89, "Fully Utilize the Media Heating System"

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. 82, "Replacing the Separating Knife"

Are the cut rail mounted?

If the cut rail is not mounted, you cannot cut off the media. Remove the cut rail before performing the manual cleaning. If the cut rail is not installed, remove the cover L, and then install the cut rail by following the step

⑥ in page 72. After installing the cut rail, be sure to install the cover L again.

Attractive Printing 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. 50 "Printing Tests and Cleaning," p. 64, "When Normal Cleaning Is Not Effective"

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. 96, "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.

Correct the settings in accordance with the media type at the printer side.

☞ P. 94, "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. 93, "Correcting for Misalignment in Bidirectional Printing," p. 94 "Correcting for Misalignment in Bidirectional Printing More Precisely"

Is the print heater at a suitable temperature?

If the ink forms lumps or smudges, raise the temperature. Note, however, that a temperature that is too high may degrade the media or cause it to wrinkle.

☞ P. 89, "Fully Utilize the Media Heating System"

Is the temperature of the room too low?

The media heating system may not warm up sufficiently when the ambient temperature is less than 20°C (68°F). Also, even when the media heating system reaches its preset temperatures, adequate effectiveness may not be apparent if the media is thoroughly chilled. Before printing, allow the media to come to room temperature.

Is the print mode suitable?

If printing results remain poor even if you raise the temperature of the media heating system, try a high quality printing method. Smudging might occur on some media when a high quality print method is used, and printing results are significantly changed according to the settings of the software RIP (selection of color profile, etc.). Please make the settings suitable for your media.

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.

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. 120, "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. 43, "Setup of Media," p. 86, "Fully Utilizing Preset Function"

Colors Are Unstable or Uneven

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. 120, "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. 100, "Speeding Up Output for Narrow Media," p. 102, "Preventing Soiling of the Media and Dot Drop-out"

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. 86, "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. 96, "Adjusting Head Height to Match Media Thickness," p. 120, "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, clean the print head manually. We recommend carrying out periodic head cleaning.

☞ P. 67, "Maintenance that Should Be Performed More Than Once a Month"

- **Tow 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. 62, "Cleaning"

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. 128, [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. 120, "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. 96, "Adjusting Head Height to Match Media Thickness"

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.43, "Setup of 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?

When you're performing printing, be sure to attach the media clamps.

Was the media loaded while the print heater was hot?

Loading media after the print heater has warmed up causes the temperature of the media to rise suddenly, which may cause the media to shrink or wrinkle during printing. Before loading media, switch off the sub power and allow the platen to cool.

☞ P.89, "Fully Utilize the Media Heating System"

Is the temperature of the media heating system too high?

Set the temperature to suitable values for the type of media.

☞ P.89, "Fully Utilize the Media Heating System"

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 the machine is used at an ambient temperature less than 20°C, then depending on the type or width of the media, wrinkling or temperature-caused unevenness may occur. If this happens, try lowering the temperature of the media heating system by about 2°C. To obtain stable printing results, however, the machine should be used at an ambient temperature of 20 to 32°C(68 to 90°F).

Is the humidity of the room too high?

Use this machine in the environment of 35 to 80 %RH (non condensation).

Is the using media deflected?

If using the deflected media, it cause winkle of the media.

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. 43, "Setup of 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. 43, "Setup of 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 grid rollers dirty?

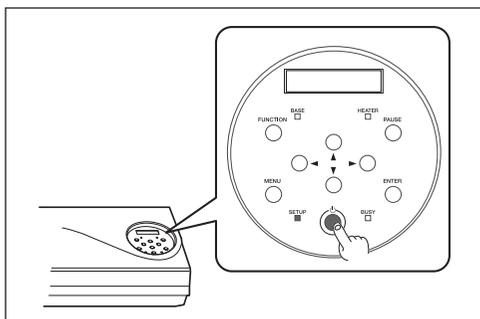
Check to make sure the grid rollers are free of buildup of foreign material such as media scraps.

☞ P. 62, "Cleaning"

Print Head Stops Moving. Why?

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 move to the stand-by position (inside the side cover), 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.

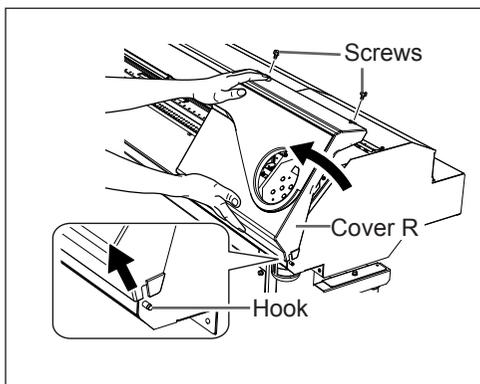
If the Heads Still Do Not Move

If the heads still do not move, carry out the following emergency response measure, then contact your authorized Roland DG Corp. dealer.

Procedure

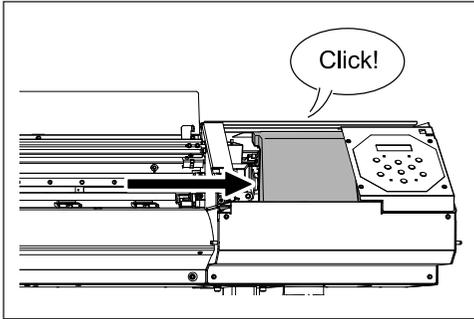
① Switch off the main power and open the front cover.

②



Remove the Cover R. Detach the side cover.

3



Gently move the print head to the standby position.

Stopping at the place where the audible click is heard locks the print head in place.

4

Gently apply pressure from the right side to make sure the heads don't move to the left.

If the print head moves to the left, again move them slowly by applying pressure from the left side and make sure they lock in place.

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 ■ 7 ■ 8 ■]

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. 84, "When Not in Use for a Prolonged Period"

[CLOSE THE COVER (FRONT COVER, COVER L or COVER R)]

Close the front cover, cover L, or cover R. For safety, the carriage does not operate while a cover is open.

[SHEET NOT LOADED SETUP SHEET]

Load media. This message appears when an attempt to perform a printing test was made while no media was loaded.

[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. 60, "Disposing of Discharged Ink"

[INSTALL DRAIN BOTTLE]

Check whether the drain bottle is installed. Install the drain bottle, then press **ENTER**.

☞ P. 60, "Disposing of Discharged Ink"

[NOW HEATING...]

Wait until the media heating system reaches the preset temperature. Printing starts when **HEATER** lights up. You can stop printing by holding down **PAUSE** for one second or longer while this is displayed. Pressing **PAUSE** makes printing start immediately, without waiting to reach the preset temperature.

[TIME FOR MAINTENANCE]

It is time to clean the printer heads manually. After verifying, press **ENTER**.

☞ P. 68, "Manual Cleaning of Print Head"

[TIME FOR WIPER (FELT) REPLACE]

It is time to replace the wiper or felt wiper. After verifying, press **ENTER**.

☞ P. 76, "Replacing the Wiper," p.79 "Replacing the Felt Wiper"

[OPEN THE VALVE]

Open the valve. The valve described here is the part you handle when you clean Heads to perform the first ink filling after purchasing this machine. Do not adjust this part except when you fill ink for the first time. If you try to close the valve in an undesirable manner, it may cause troubles including NG ink discharge.

☞ "Setup Guide"

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 .

[HEATING TIMEOUT CONTINUE?]

The print heater or dryer did not reach the preset temperature.

This occurs because the temperature of the location where the machine is installed is too low. We recommend raising the temperature. To continue waiting for the temperature to rise, press **ENTER** . To start printing immediately, press **PAUSE** .

[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 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 area wider, such as by replacing the media with a larger piece of media, then send the data again.

The size of the data being output is too small.

Make the scanning-direction size of the data at least 65 mm (2.6 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 raise the loading lever. 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.

[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 (15 to 32°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.

[SHEET TOO SMALL CONTINUE?]

The size of the data is larger than the printing area of the loaded media.

To continue performing output without correcting this, press **ENTER** . At this time, the portion extending beyond the printing area is not output. To stop output, stop sending data from the computer, then raise the loading lever. Make the printing area wider, such as by replacing the media with a larger piece of media, then send the data again.

[SHEET SET ERROR SET AGAIN]

The loading lever was lowered while no media was loaded.

Raise the loading lever, place media at the correct location, then lower the lever again.

☞ P. 33, "Loading Media"

[SHEET TYPE] is set to "OPAQUE," but transparent media was loaded.

Raise the loading lever, set the [SHEET TYPE] menu item to "CLEAR," then reload the media.

☞ P. 100, "Speeding Up Output for Narrow 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 (15 to 32°C) 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 for a problem with the connector cable or the computer, and redo the operation from the step of loading the 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.

[AVOIDING DRY-UP TURN POWER OFF]

The print head was forced to standby position to prevent them from drying out.

Operation cannot be continued. Switch the sub power off, then back on.

[SET HEAD HEIGHT TO xxx]

The height of the print head is lower than the height specified on the computer.

This warning indicates that the height of the print head is too low for the media thickness 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**.

☞ P. 96, "Adjusting Head Height to Match Media Thickness"

[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 head 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 head 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.

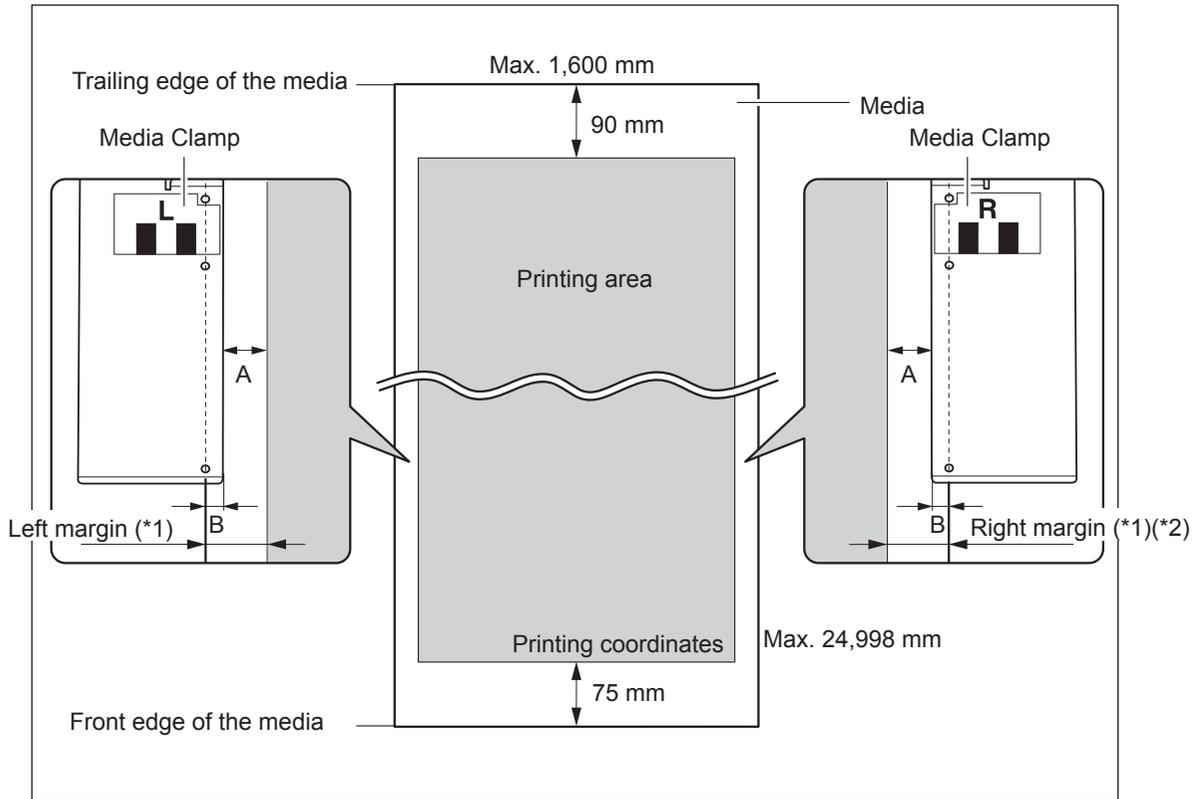
Chapter 7

Main Specifications

Printing Area	130
Maximum Area and Margins.....	130
The Media-cutoff Location During Continuous Printing	131
Locations of the Power Rating and Serial Number Labels	132
Specifications	133

Printing Area

Maximum Area and Margins



A: Setting of the [SIDE MARGIN] menu item (5 mm, 10 mm (default setting), or 25 mm)

B: Width clamped by the media clamp (approx. 5 mm)

*1 The amount of the left and right margins is the total of A and B. In the following cases, however, the setting for A becomes the amount of margin without change.

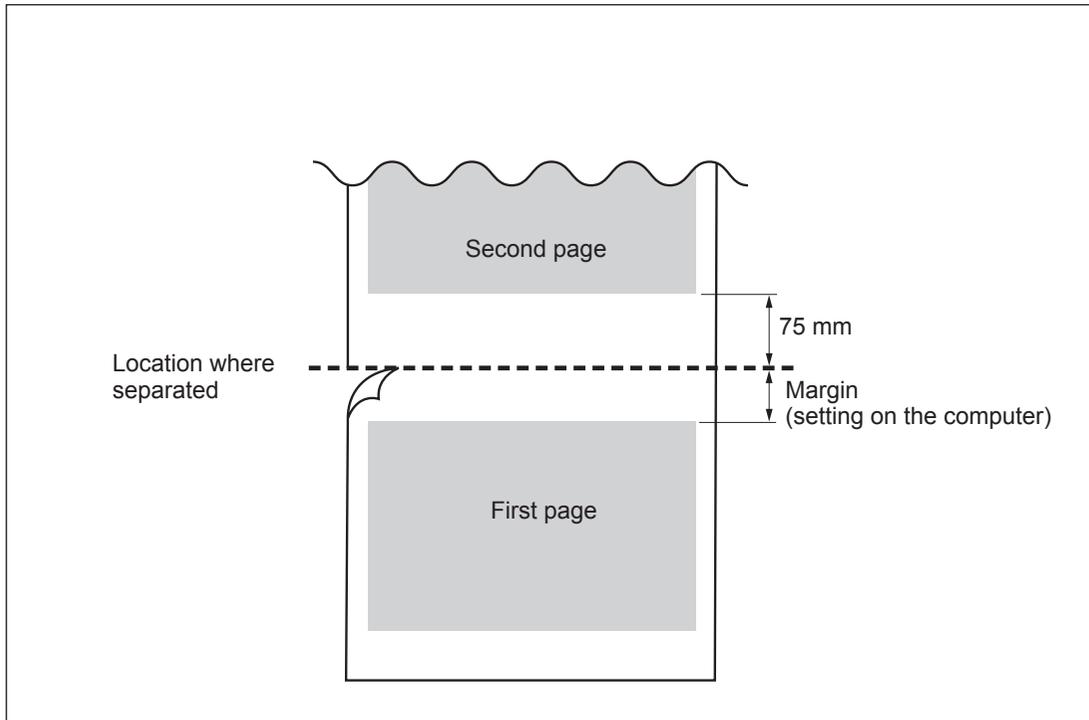
- When media has been loaded without installing the media clamps
- When the [SHEET TYPE] menu item is set to [CLEAR] (regardless of whether the media clamps are present)

*2 The amount of margin can be changed by making the setting of base point (print-start position).

- ☞ P. 49, "Setting the Output-start Location"

The Media-cutoff Location During Continuous Printing

When you use a crop mark, the printing area becomes smaller than the maximum area as much as the crop mark size.



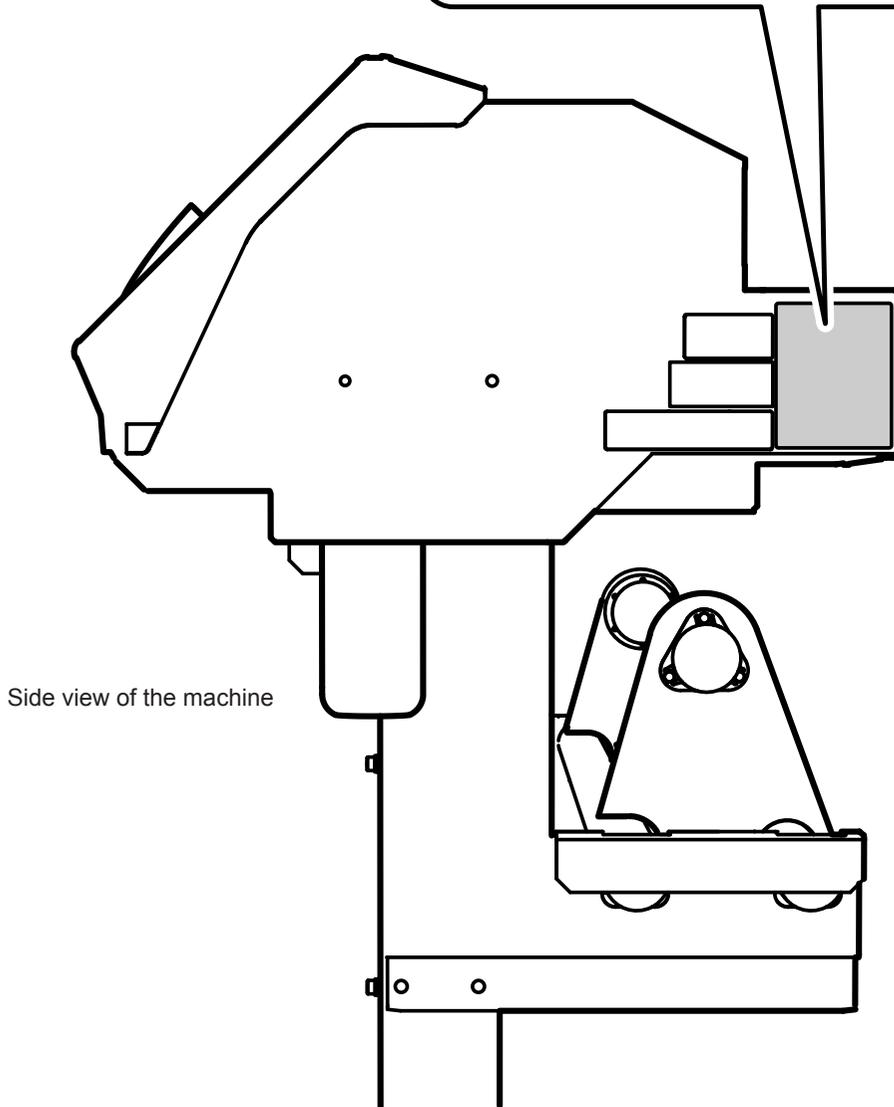
Locations of the Power Rating and Serial Number Labels

Serial Number

This is required when you seek maintenance, servicing, or support. Never peel off the label or let it get dirty.

Power Rating

Use an electrical outlet that meets the requirements for voltage, frequency, and amperage given here.



Specifications

		RA-640
Printing technology		Piezoelectric inkjet
Media	Width	259 to 1,625 mm (10.2 to 64 in.)
	Thickness	Maximum 1.0 mm (39 mil) with liner, for printing
	Roll outer diameter	Maximum 210 mm (8.3 in.)
	Roll weight	Max. 40 kg (88 lb.)
	Core diameter(*1)	76.2 mm (3 in.) or 50.8 mm (2 in.)
Printing width(*2)		Max. 1,615 mm (63.6 in.)
Ink cartridges	Types	220-cc cartridge / 440-cc cartridge
	Colors	Four colors (cyan, magenta, yellow, and black)
Printing resolution (dots per inch)		Maximum 1,440 dpi
Distance accuracy (*3)(*4)		Error of less than $\pm 0.3\%$ of distance traveled, or ± 0.3 mm, whichever is greater
Media heating system (*5)		Print heater, setting range for the preset temperature: 30 to 45°C (86 to 112°F) Dryer, setting range for the preset temperature: 30 to 50°C (86 to 122°F)
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving function		Automatic sleep feature
Power requirements		AC 100 to 120 V $\pm 10\%$, 8.2 A, 50 / 60 Hz or AC 220 to 240 V $\pm 10\%$, 4.2 A, 50 / 60 Hz
Power	During operation	Approx. 1,080 W
	Sleep mode	Approx. 14.8 W
Acoustic noise level	During operation	64 dB (A) or less
	During standby	41 dB (A) or less
Dimensions (with stand)		2,575 (W) x 705 (D) x 1,175 (H) mm (101.4 (W) x 27.8 (D) x 46.3 (H) in.)
Weight (with stand)		135 kg (298 lb.)
Environmental	Power on (*6)	Temperature: 15 to 32°C (59 to 90°F) (20°C [68°F] or more recommended), humidity: 35 to 80%RH (non-condensing)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (non-condensing)
Accessories		Exclusive stands, power cord, media clamps, media holder, replacement blade for separating knife, User's Manual, etc.

Specifications

*1

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.

*2

The length of printing 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.
- Excluding expansion/contraction of the media
- Not assured when the print heater or dryer is used.
- All correction or adjustment function of this machine has been made properly.

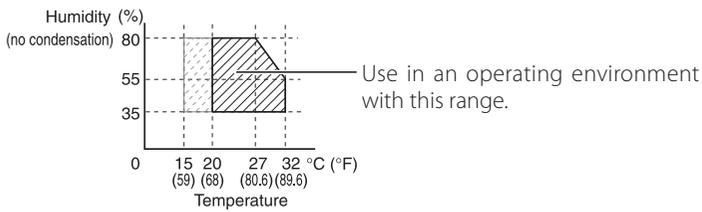
*4

- Print travel: 1 m

*5

- Warm-up is required after power up. This may require 5 to 20 minutes, depending on the operating environment.
- Depending on the ambient temperature and media width, the preset temperature may fail to be reached.

*6



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

 <p>This product must be disposed of separately at your local waste recycling center. Do not dispose of in household waste bin.</p>	 <p>Lever dit product in bij een lokaal afvalverzamelpunt. NIET met normaal huishoudelijk afval afvoeren.</p>
 <p>Bitte führen Sie dieses Produkt separat Ihrer örtlichen Entsorgungsstelle zu. Bitte nicht mit dem normalen Hausmüll entsorgen.</p>	 <p>Dette Produkt skal smides særskilt væk på den lokale affalds- og genbrugsstation. Må ikke smides ud sammen med almindeligt husholdningsaffald.</p>
 <p>Ne jetez pas le produit avec vos ordures ménagères. Portez-le dans un centre recyclage des déchets.</p>	 <p>Tätä tuotetta ei saa hävittää normaalien talousjätteiden mukana, vaan se on toimitettava ongelmajätteiden keräilypiisteeseen hävitettäväksi.</p>
 <p>Questo prodotto deve essere smaltito negli appositi contenitori per la raccolta differenziata, non buttare nel cestino dei rifiuti casalinghi.</p>	 <p>Produkten måste kasseras separat på din lokala återvinningscentral. Släng inte produkten tillsammans med hushållssoporna.</p>
 <p>Este producto debe devolverse al centro de reciclaje más cercano a su domicilio para su correcta eliminación. No lo tire a la basura.</p>	 <p>Μην πετάξετε το αντικείμενο αυτό στο καλάθι των απορριμμάτων. Αφαιρέστε τις μπαταρίες και προσκομίστε το στο τοπικό κέντρο ανακύκλωσης.</p>
 <p>Deite fora separadamente este produto no seu centro de reciclagem local. Não o deite fora no seu caixote do lixo.</p>	



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/>

RolandDG Corp. has licensed the MMP technology from the TPL Group.



1000010262

R4-121207