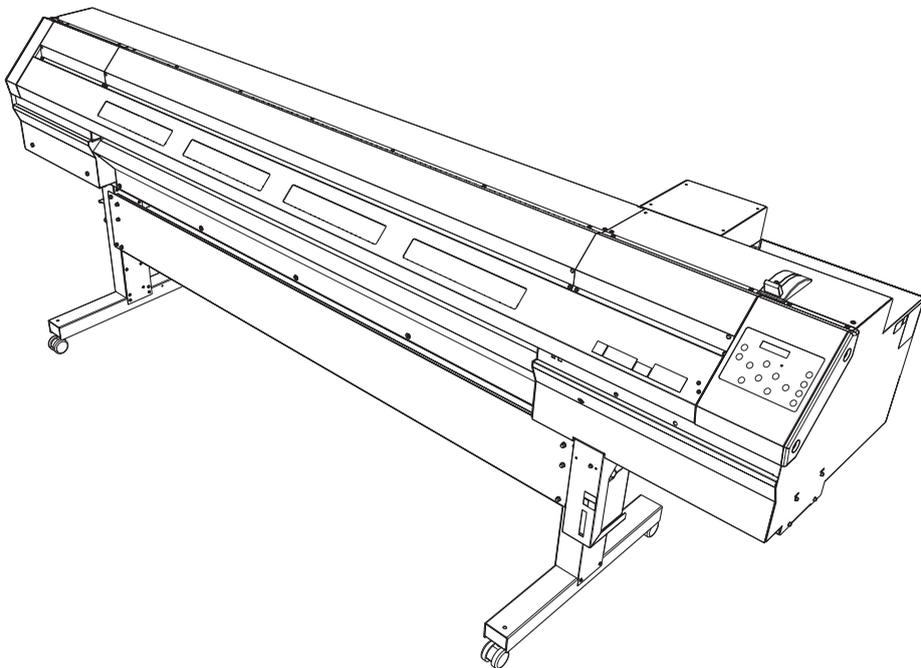


Hi-Fi JET

FH-740

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.

NOTICE

Grounding Instructions

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

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

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

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

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

Repair or replace damaged or worn out cord immediately.

For 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

For EU Countries

WARNING

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

For California

WARNING

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

Roland DG Corp. has licensed the MMP technology from the TPL Group.

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



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 accidents.

 **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.

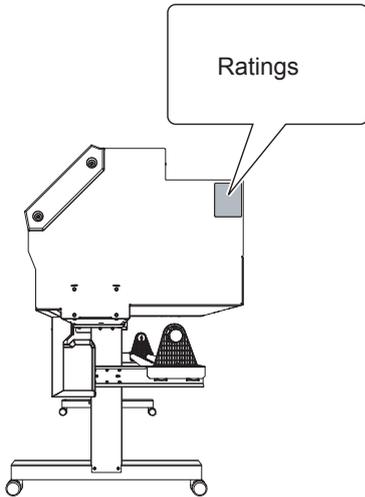
 **Danger of electrical short, shock, electrocution, or fire**

 **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.



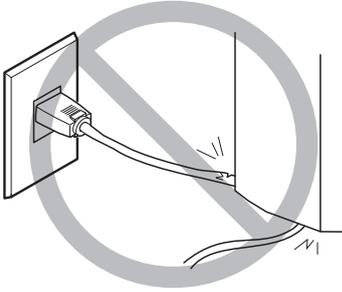
If sparking, smoke, burning odor, unusual sound, or abnormal operation occurs, immediately unplug the power cord. Never use if any component is damaged.

Continuing to use the machine may result in fire, electrical shock, or injury. Contact your authorized Roland DG Corp. dealer.

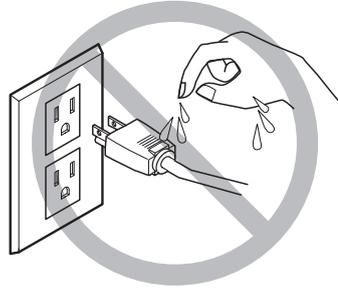


Do not use the supplied power supply cord for other products.

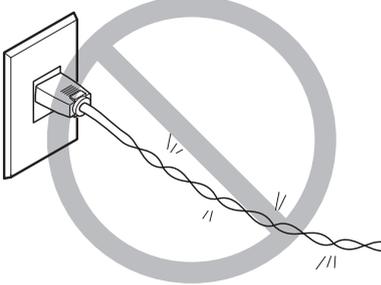
 Important notes about the power cord, plug, and electrical outlet



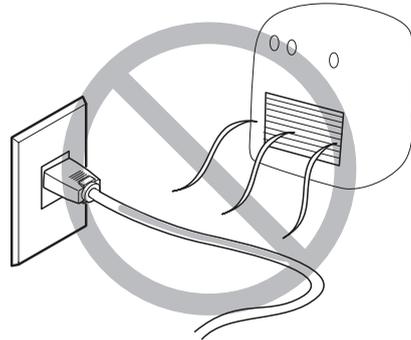
Never place any object on top or subject to damage.



Never allow to get wet.



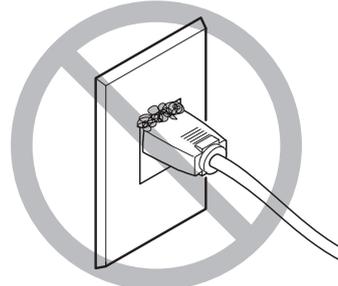
Never bend or twist with undue force.



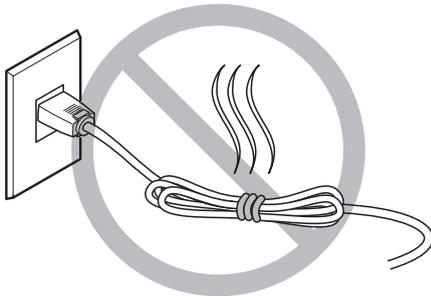
Never make hot.



Never pull with undue force.



Dust may cause fire.



Never bundle, bind, or roll up.

 **Ink, cleaning liquid, and discharged fluid are toxic.**

 **WARNING**

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

- 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. Accidental ingestion by children may pose a health hazard.

 **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.

 **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 occur, 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 250 kg (551 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 of the machine may reach 250 kg (551 lb.) or more. Installation in an unsuitable location may cause a major accident, including tip over, fall, or collapse.

 **Unloading and emplacement are operations that must be performed by six 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.**

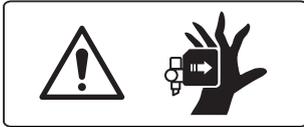
Danger exists of becoming pinned under the media and suffering serious injury.

 **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.

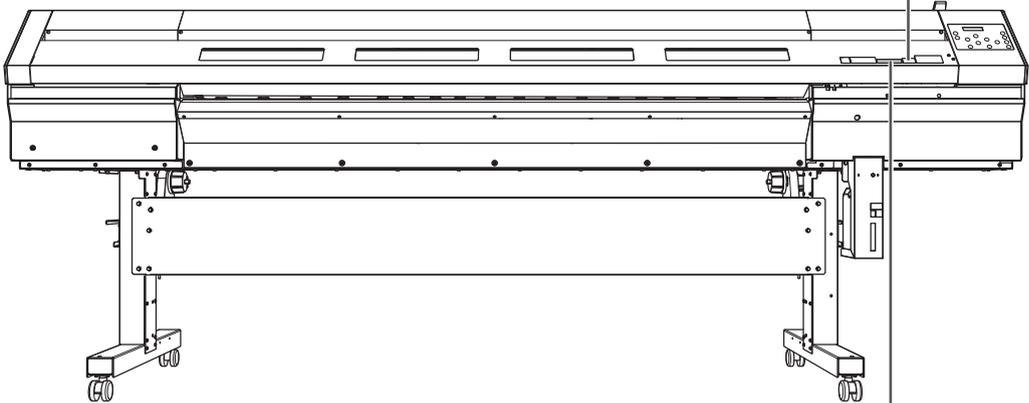
Warning Labels

Warning labels are affixed to make areas of danger immediately clear. The meanings of these labels are as follows. Be sure to heed their warnings. Also, never remove the labels or allow them to become obscured.



Caution: Moving Print Heads

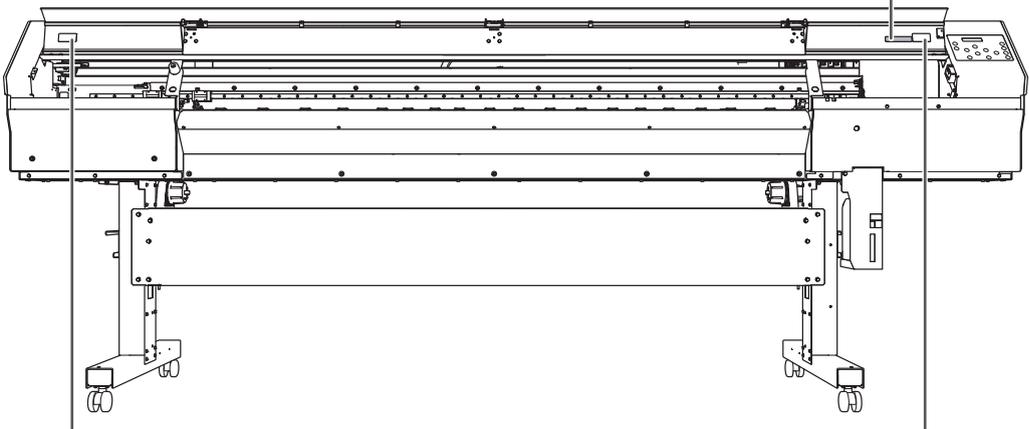
The print heads inside the front cover move at high speed and pose a hazard. Never insert the hand or fingers into the gap.



WARNING :
HAZARDOUS MOVING PARTS KEEP FINGERS
AND OTHER BODY PARTS AWAY.

Caution: Moving Print Heads

The print heads inside the front cover move at high speed and pose a hazard. Never insert the hand or fingers into the gap.



Caution: Pinching Hazard

Be careful not to allow the fingers to become pinched when loading media or closing the front cover.



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.

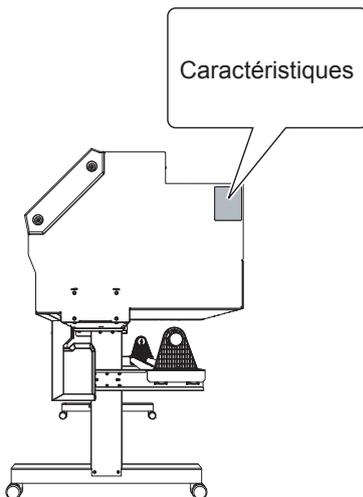
⚠ **Risque de décharge ou de choc électrique, d'électrocution ou d'incendie**

⚠ 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'infiltré 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



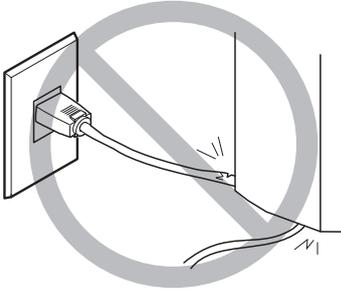
S'il se produit des étincelles, de la fumée, une odeur de brûlé, un bruit inhabituel ou un fonctionnement anormal, débrancher immédiatement le câble d'alimentation. Ne jamais utiliser si un composant est endommagé.

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

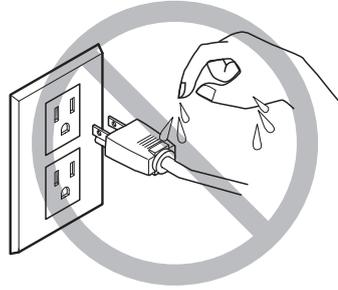


Ne pas utiliser le cordon électrique fourni avec d'autres produits.

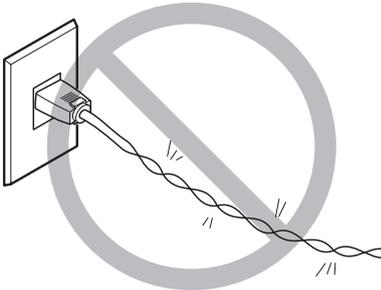
⚠ Remarques importantes à propos du câble d'alimentation, de la fiche et de la prise électrique



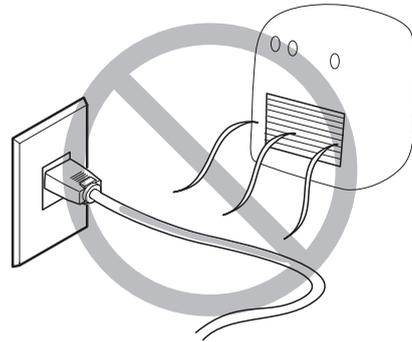
Ne jamais déposer aucun objet sur le câble, sur la fiche ou sur la prise car cela risque de les endommager.



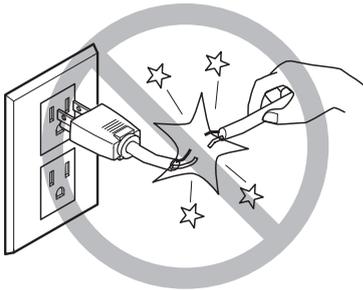
Ne jamais laisser l'eau toucher le câble, la fiche ou la prise.



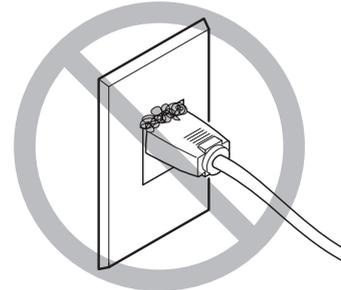
Ne jamais plier ni tordre le câble avec une force excessive.



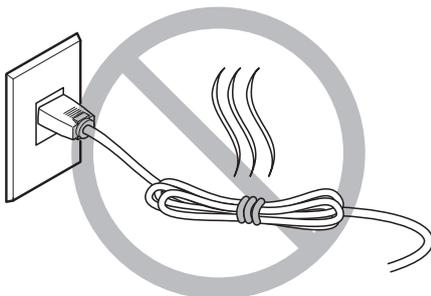
Ne jamais chauffer le câble, la fiche ou la prise.



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, le fluide de nettoyage et le fluide déchargé sont nuisibles aux humains**

 **ATTENTION**

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

- 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.
- L'ingestion accidentelle par un enfant peut présenter un risque pour la santé.

 **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 250 kg (551 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 250 kg (551 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'ensuivrait un accident grave, par exemple l'écrasement de membres ou du corps.



Prendre les mesures de sécurité adéquates pour l'entreposage des rouleaux de support pour s'assurer qu'ils ne rouleront pas, ne tomberont pas et ne se renverseront pas.

Il y a risque d'être écrasé par le support et de subir des blessures graves.

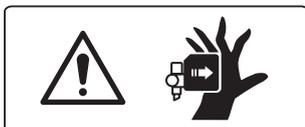


La manutention du support en rouleau doit être faite par deux personnes ou plus et il faut prendre des précautions pour éviter les chutes.

Tenter de soulever des objets trop lourds peut causer des blessures.

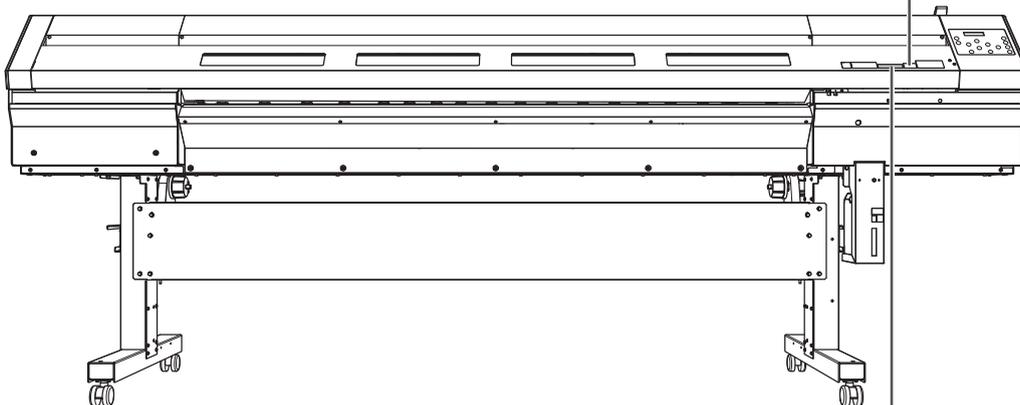
Vignettes d'avertissement

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 : Têtes d'impression mobiles

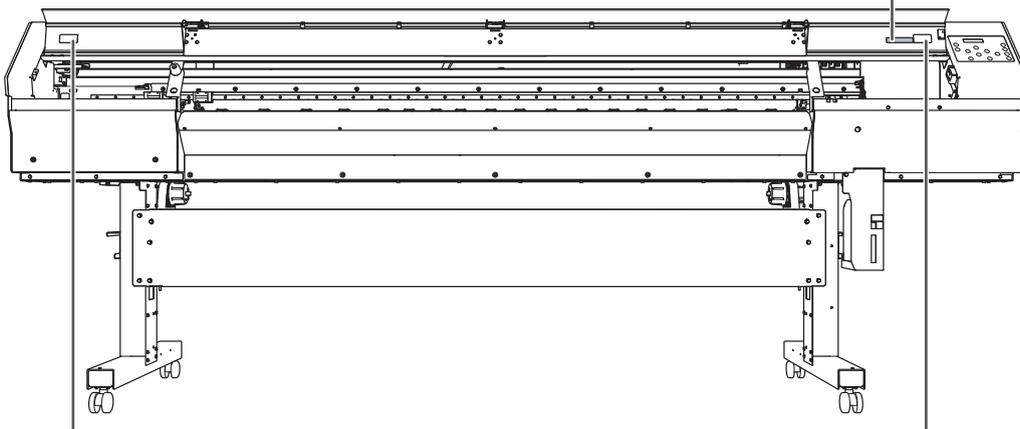
N'insérez pas votre main au-dessous du couvercle avant. La tête d'impression se déplace à haute vitesse à l'intérieur du couvercle avant, ce qui est très dangereux.



WARNING :
HAZARDOUS MOVING PARTS KEEP FINGERS
AND OTHER BODY PARTS AWAY.

Attention : Têtes d'impression mobiles

N'insérez pas votre main au-dessous du couvercle avant. La tête d'impression se déplace à haute vitesse à l'intérieur du couvercle avant, ce qui est très dangereux.



Attention : Risque de pincement

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

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. Also, be sure to use only genuine items from Roland DG Corp.

Never subject to impact or attempt to disassemble.

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

Storage

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

Chapter 1

Machine Highlights

1-1 Part Names and Functions	22
Printer Unit.....	22
Operation Panel.....	24
1-2 Menu List	25
Main Menu.....	25
Language and Unit Menu	28
Cleaning Menu	28

1-1 Part Names and Functions

Printer Unit

Front

Front cover

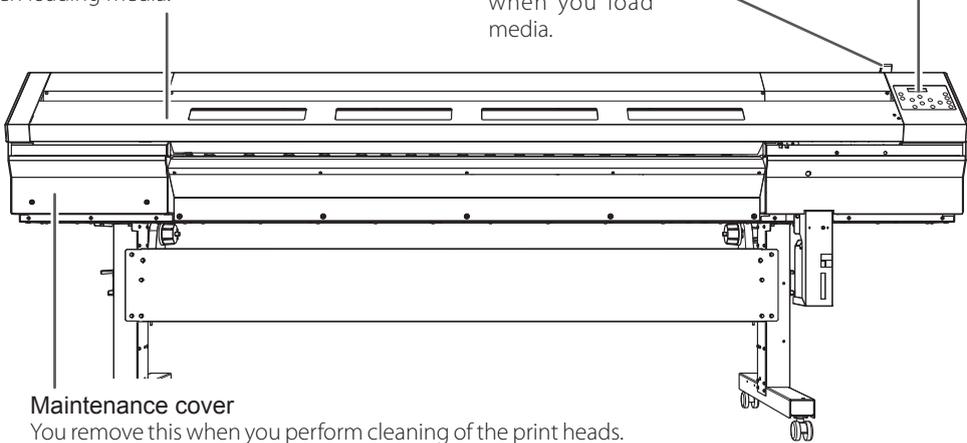
Keep this closed except when necessary, during when loading media.

Loading lever

You operate this when you load media.

Operation panel

☞ P.24, "Operation Panel"



Maintenance cover

You remove this when you perform cleaning of the print heads. Keep this closed except when necessary.

Rear

Link LED

This lights up green when the connection to the network is correct.

Status LED

This flashes yellow while data is being received from the network.

Main power switch

Power-cord connector

Ethernet connector

This is used to connect the printer to a network.

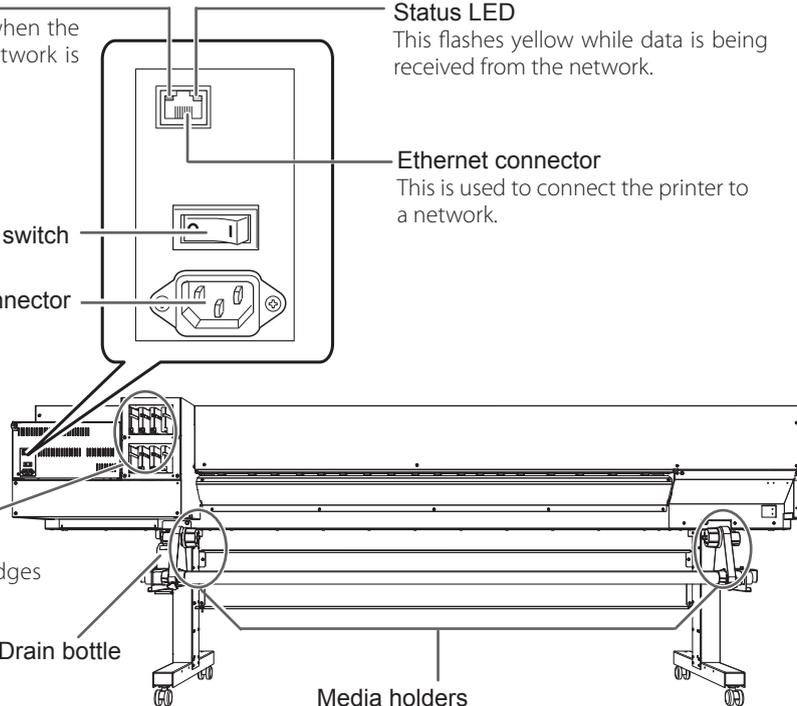
Cartridge slots

There are where ink cartridges are installed.

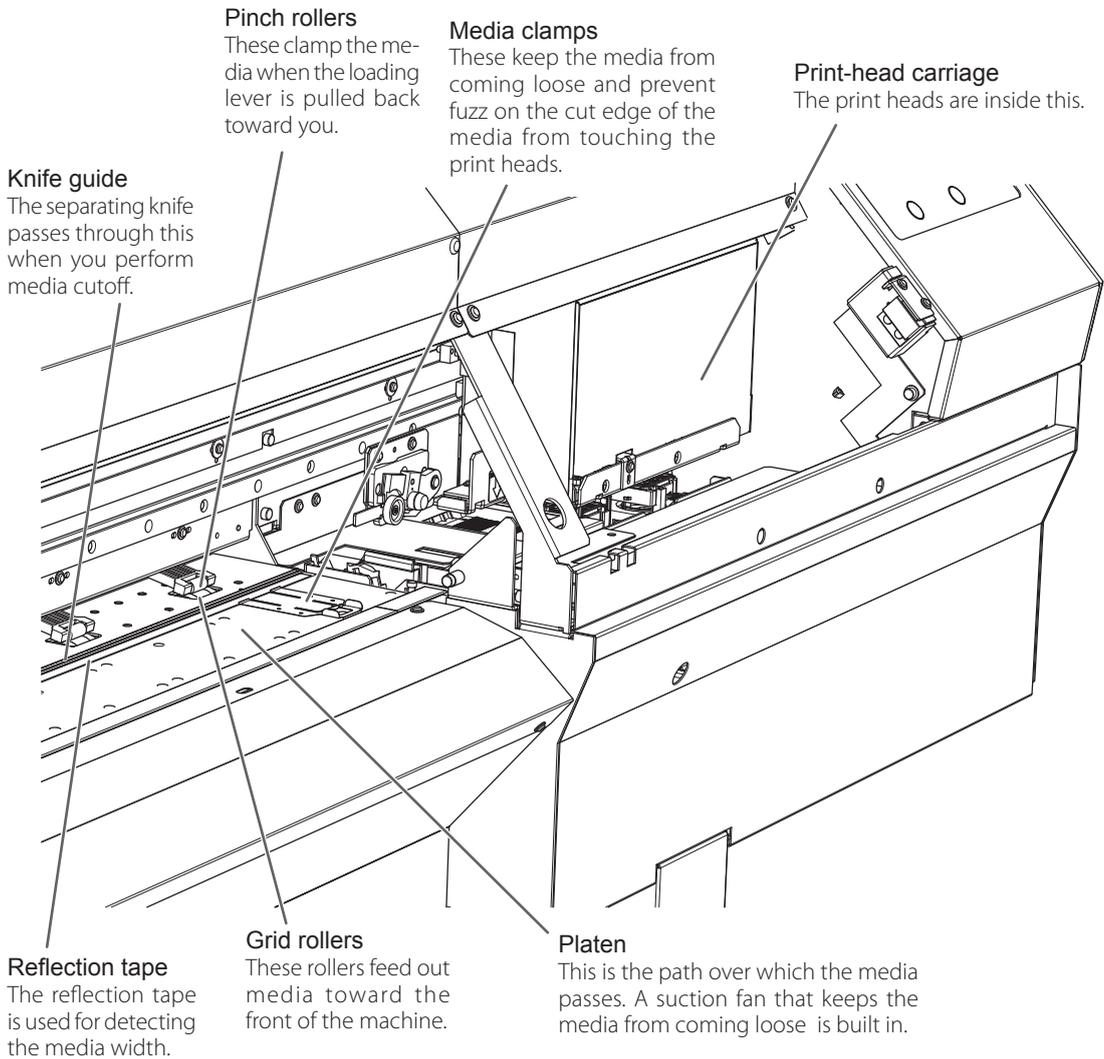
Drain bottle

Media holders

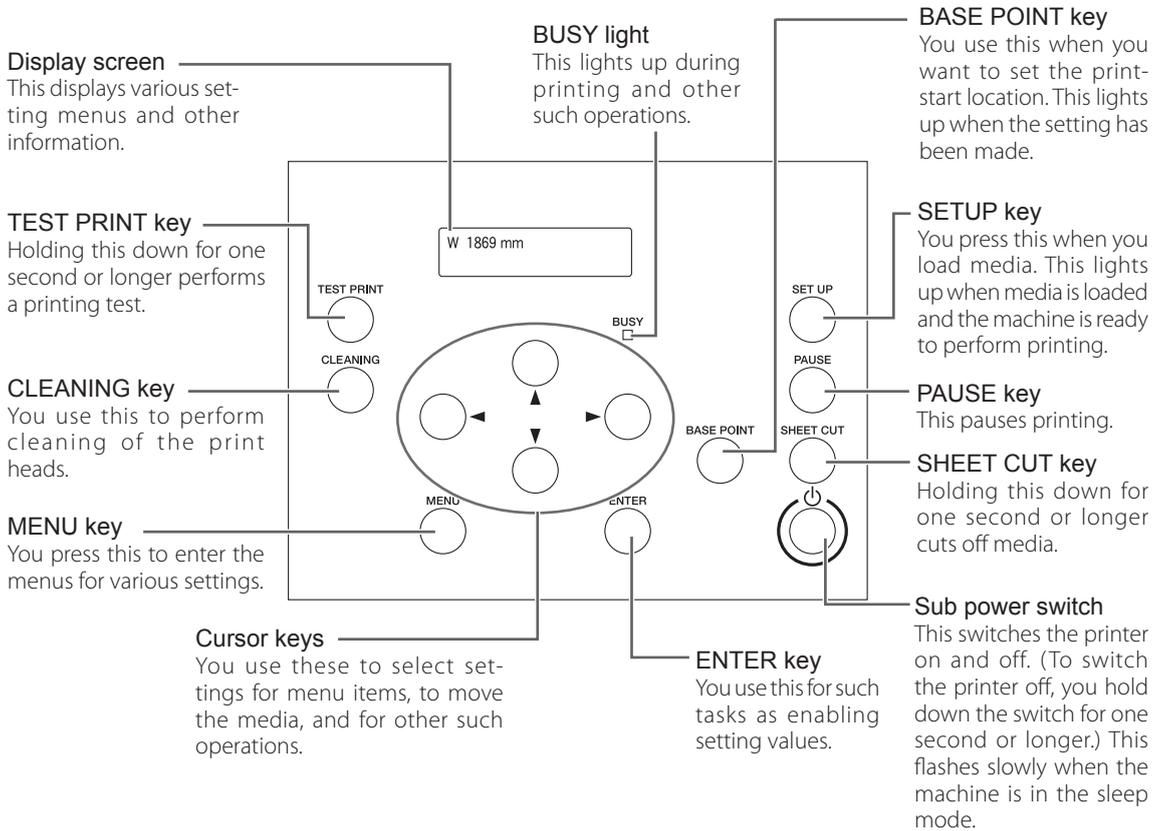
Here is where you load roll media and secure it in place.



Front Cover Inside / Print Head Periphery



Operation Panel



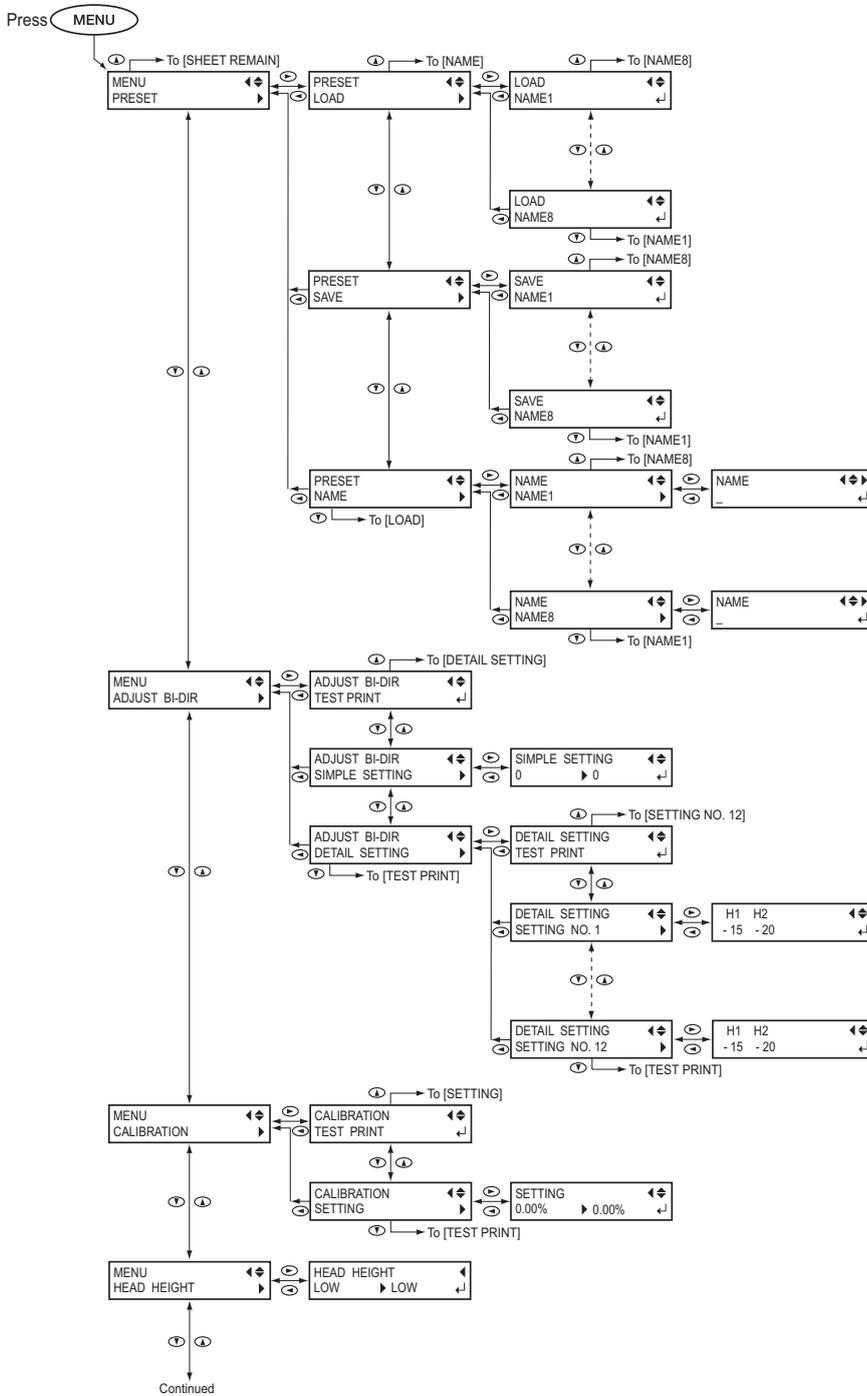
Panel Notation

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

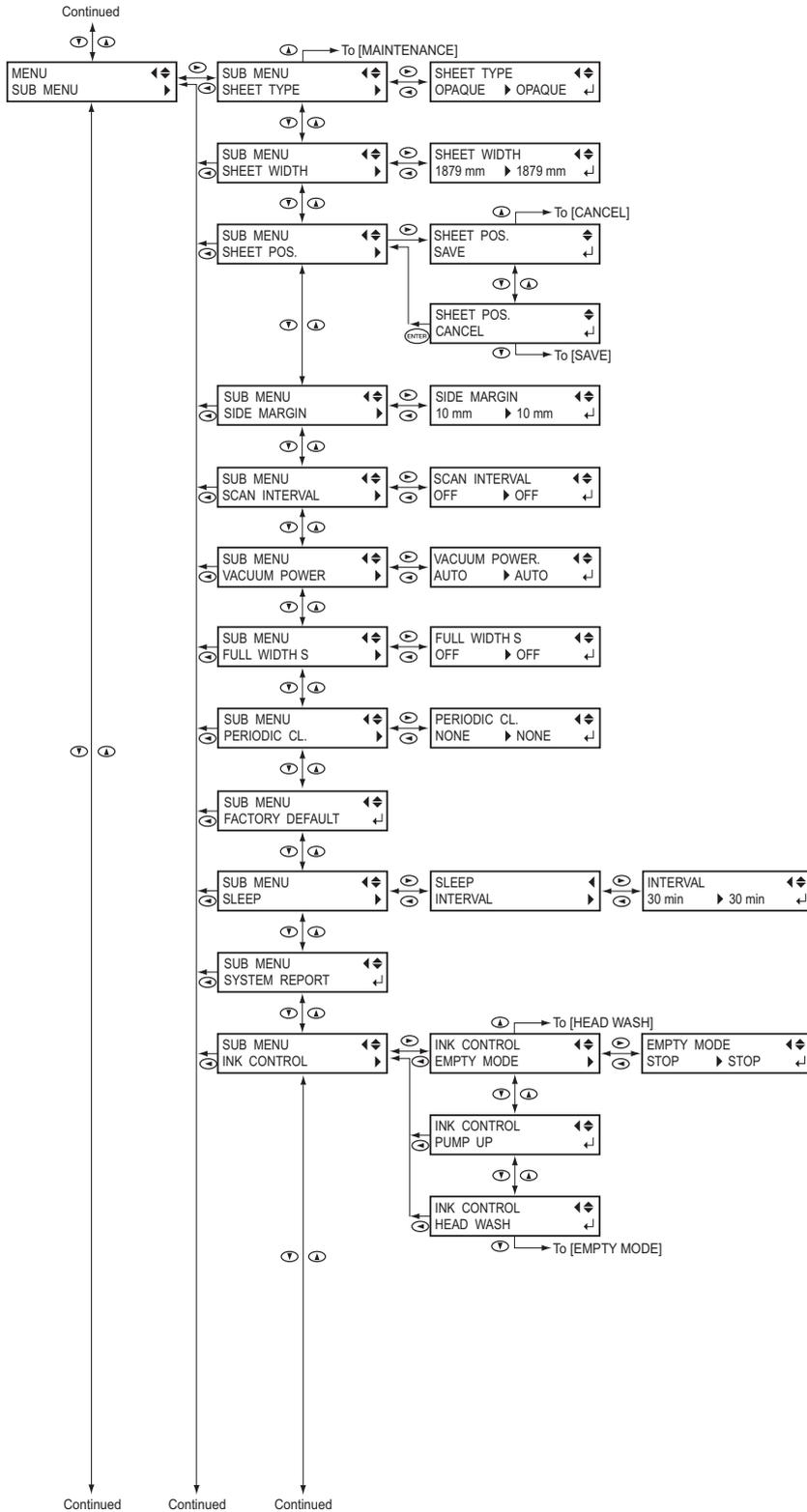
-  **MENU key**
-  **SETUP key**
-  **ENTER key**
-  **Cursor keys**
-  **PAUSE key**
-  **CLEANING key**
-  **TEST PRINT key**
-  **BASE POINT key**
-  **SHEET CUT key**

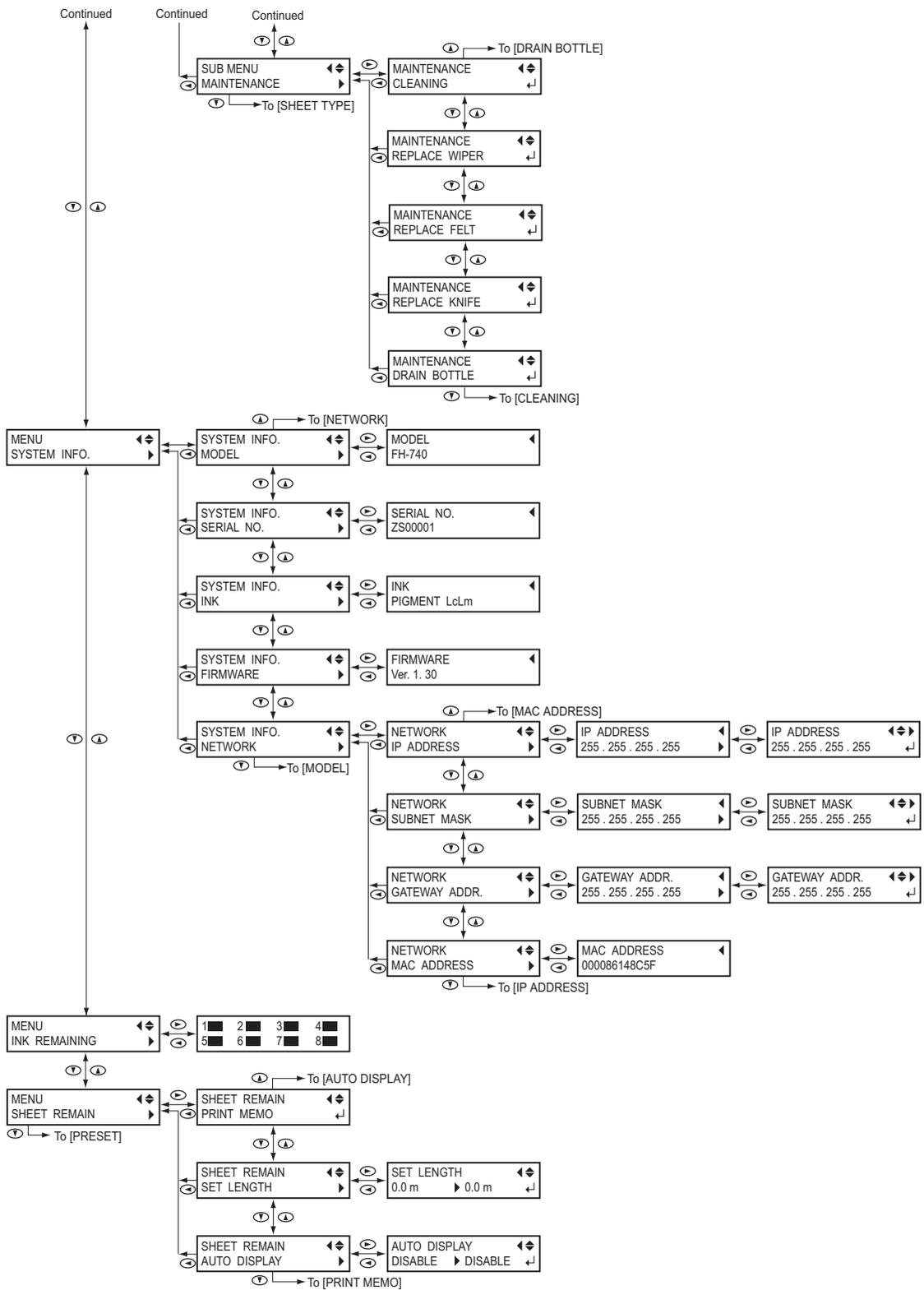
1-2 Menu List

Main Menu



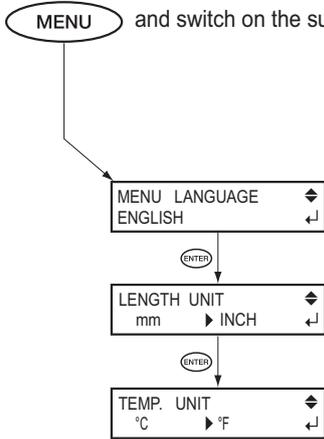
1-2 Menu List





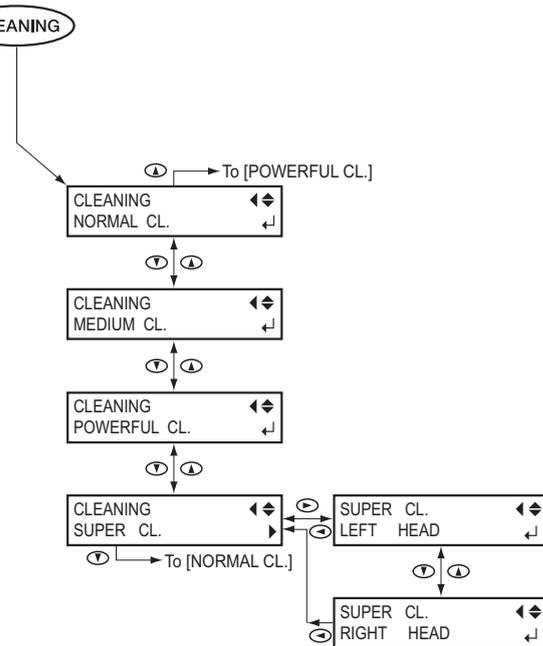
Language and Unit Menu

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



Cleaning Menu

Press **CLEANING**



Chapter 2

Basic Operation

2-1 Prepare the Media	30
Type of Media	30
Usable Media.....	30
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The Power-saving Feature (Sleep Mode).....	31
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Getting Ready to Receive Data from a Computer	44
Start printing	45
Pause and cancel of printing	46
Cutting Off the Media.....	47
2-5 Switch Off	48
Switch Off	48

2-1 Prepare the Media

Type of Media

In this document, the paper used for printing is referred to as "media". The media used in this machine are roughly divided into the following two types.

- **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.

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)

210 to 1879 mm (8.3 to 74 inches)

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

1 mm (39 mil)

Roll outer diameter

210 mm (8.3 inches)

Paper tube (core) inner diameter

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

Roll Weight

40 kg (88 lb.)

Other Conditions

Media such as the following cannot be used.

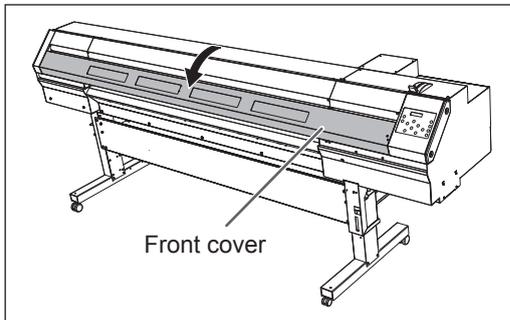
- Media whose end is attached to the paper tube (core)
- Media which is severely warped or which has a strong tendency to reroll
- Media whose paper tube (core) is bent or crushed
- Media that bends under its own weight when loaded
- Media on a sagging roll
- Media that is rolled unevenly

2-2 Switch On

Switch On

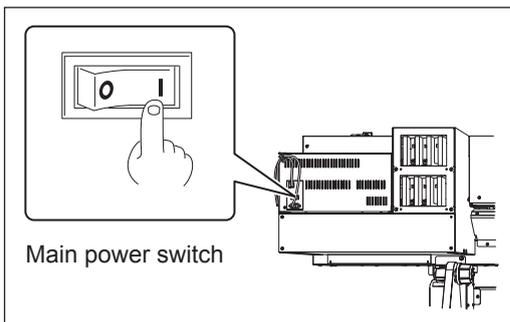
Procedure

1



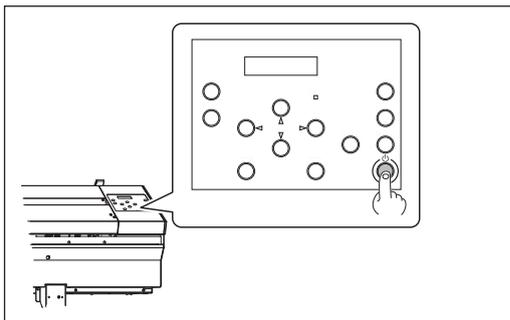
Close the front cover.

2



Turn on the main power switch.

3



Press the sub power button.

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

The Power-saving Feature (Sleep Mode)

This machine is provided with a power-saving feature that switches to a low-power "sleep mode" when a fixed interval passes with no operation. The factory default for the time after which the machine switches to the sleep mode is 30 minutes. When the machine is in the sleep mode, the sub power switch flashes slowly. Performing operation from the operation panel or sending print data from the computer with the media set allows the machine to return to the normal mode.

It is recommended to set the transition time after which the machine switches to the sleep mode to 30 minutes or less for saving power.

☞ P. 98, "Setting the Interval until Activation of the Sleep Mode (Power Saving Function)"

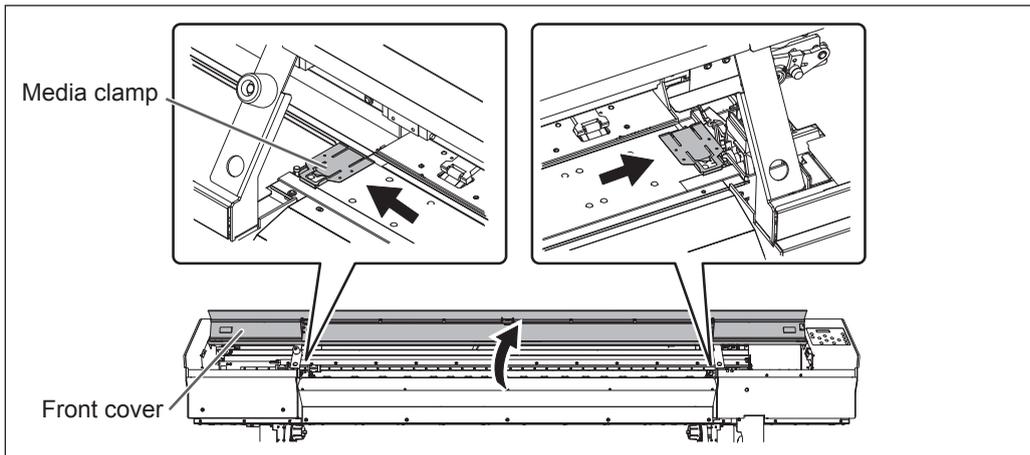
2-3 Loading Media

Loading Roll Media

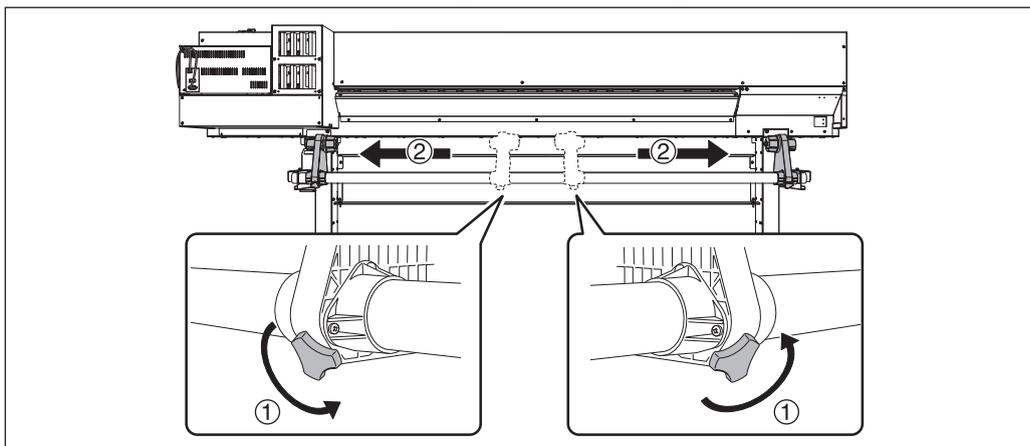
- ⚠ CAUTION** Load roll media correctly. Otherwise the media may fall and cause injury.
- ⚠ CAUTION** Roll media weighs about 40 kg (88 lb.). To avoid injury, handle with care.
- ⚠ CAUTION** Never load media that weighs more than 40 kg (88 lb.). The machine may fail to withstand the weight and tip over or cause the media to fall.

1. Install the media to the media holder.

- 1**
- ① Open the front cover.
 - ② Move the media clamps to the left and right ends respectively.

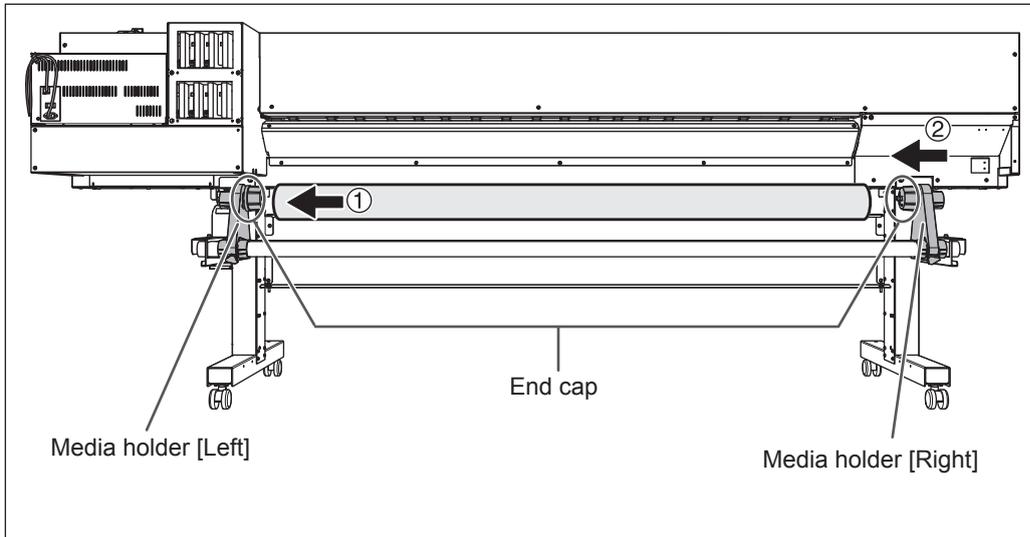


- 2**
- ① Loosen the retaining screws of the media holders.
 - ② Move the media holders all the way to the left and right.



- 3
- ① Fit the paper tube (core) onto the end cap of the media holder [Left].
 - ② Move the media holder [Right] and fit the media cap onto the paper tube core of the media.

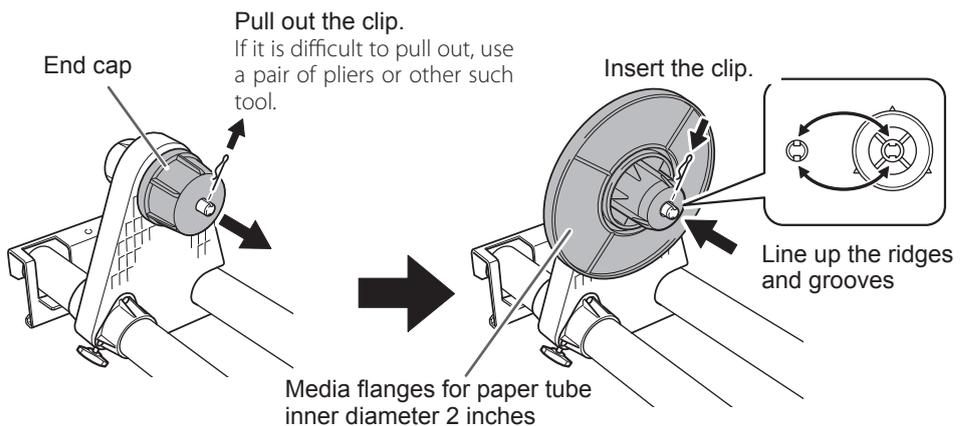
Fit it securely to prevent the media from easy loose.



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

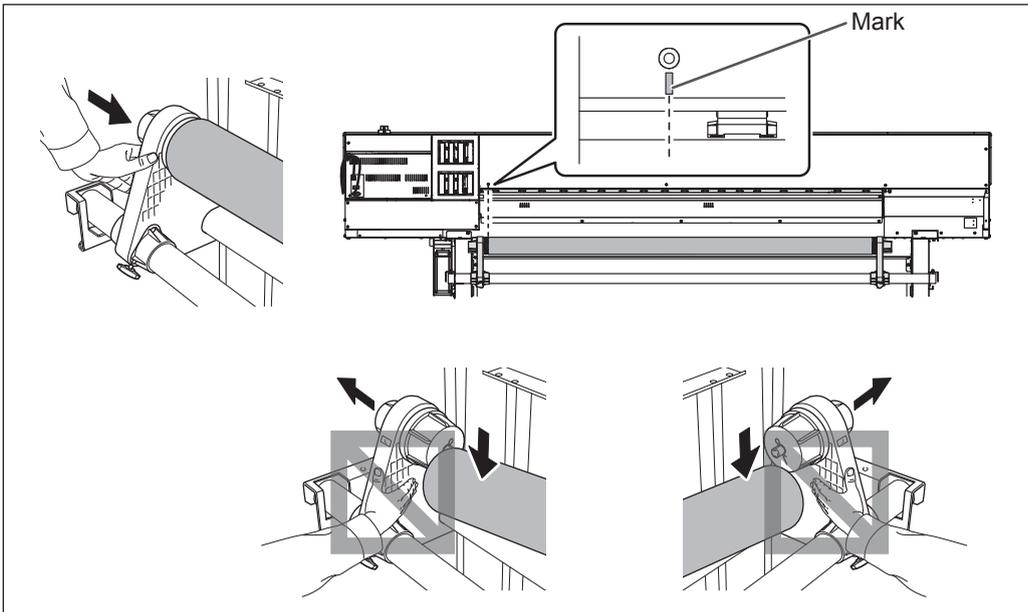


2. Pass the media through the printer.

- 1 Hold the outside of the media holder (left) to align the left end 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.

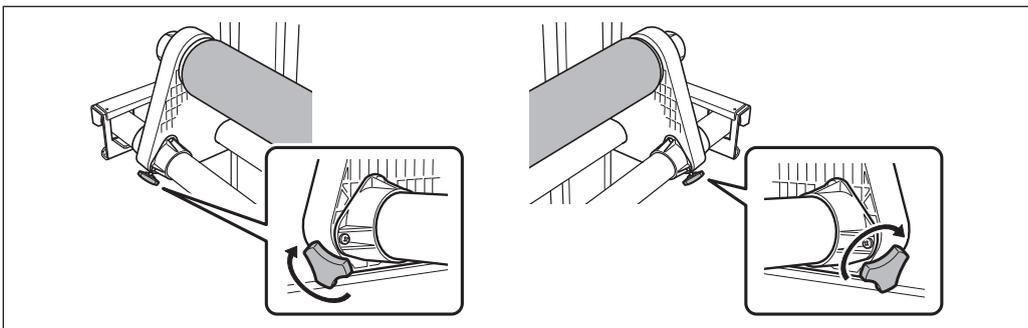


IMPORTANT!

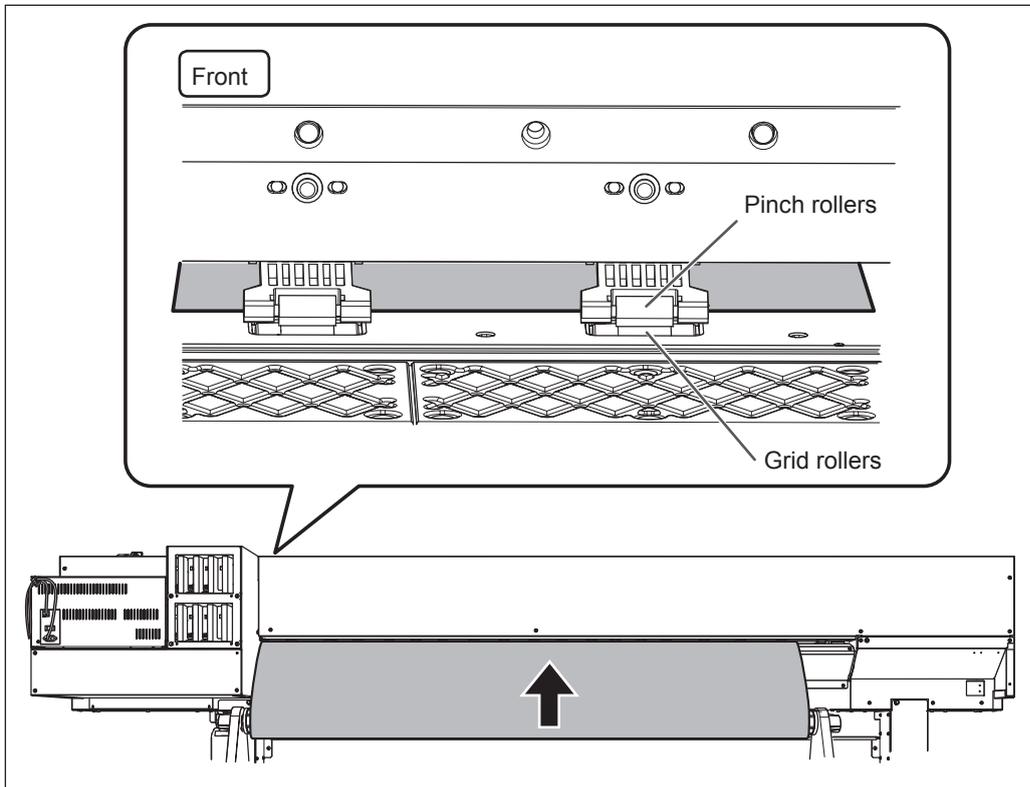
Decide the left and right side positions of the media finally at this step. If there is misalignment in the left and right side positions of the media after the media is pulled to the platen, start over the work from this step. Forcible positioning by holding only the media will cause the media to incline, resulting in poor print quality.

- 2 Secure the media holder by tightening the securing screws slightly.**

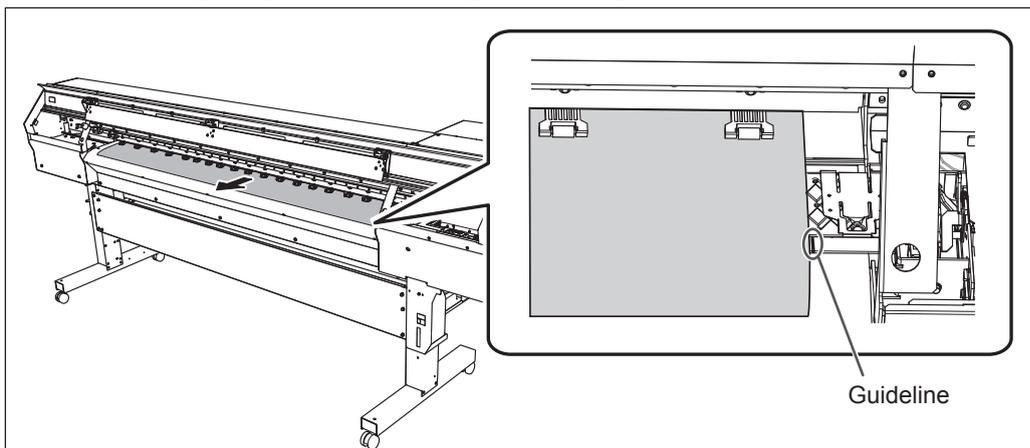
The retaining screw may get damaged if tightened excessively.



- 3 Pass the leading edge of the media between the pinch rollers and the grid rollers.



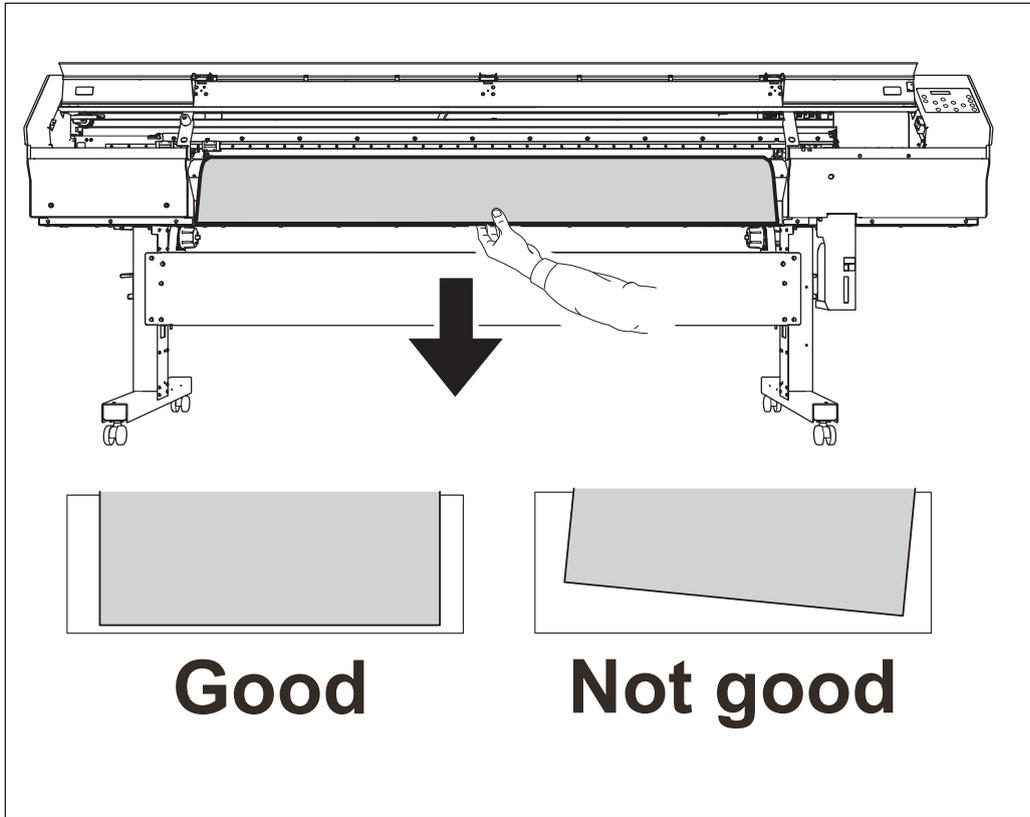
- 4 Pull out the media over the platen.
Confirm that the right edge of the media is aligned with the guideline.



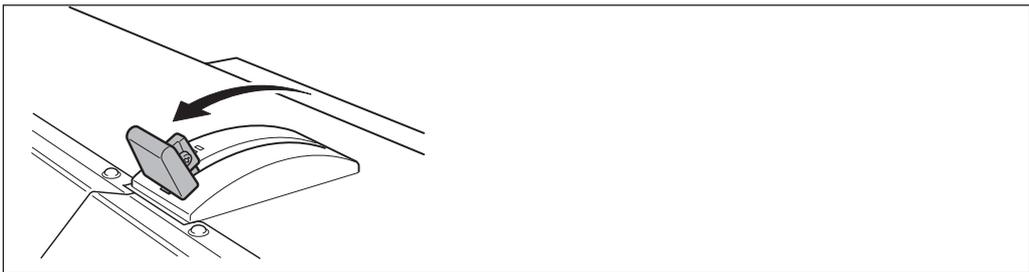
IMPORTANT!

To correct the position of the media at this point, start over the operation from the step 2.-1. Forcible positioning by holding only the media will cause the media to incline, resulting in poor print quality.

- 5 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.



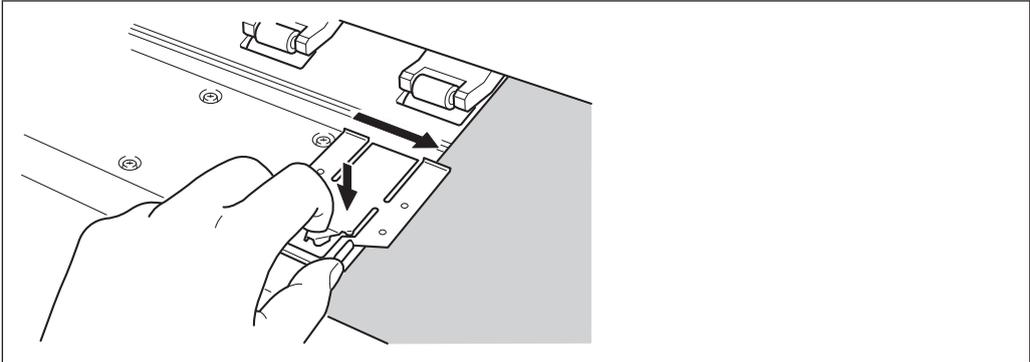
- 6 Pull back the loading lever.
The media is gripped between the pinch rollers and the grid rollers.



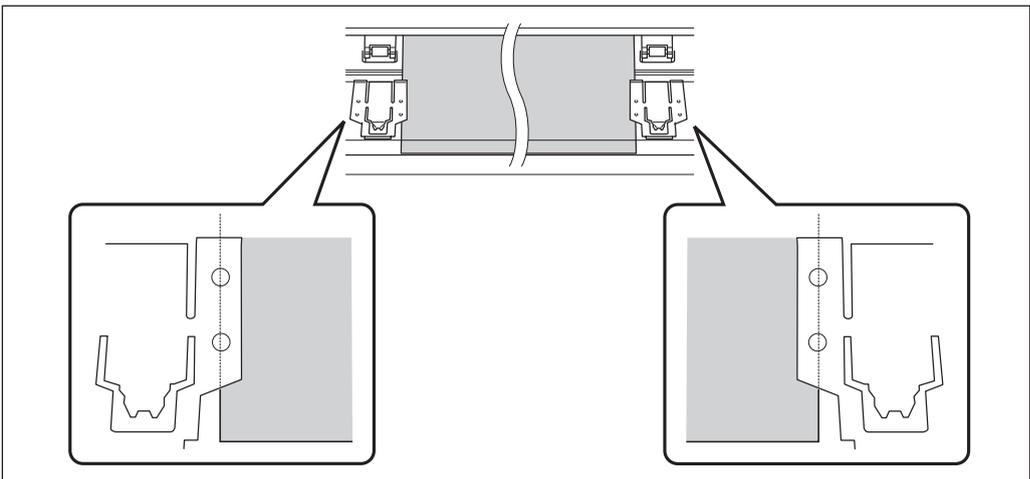
3. Clamp the edges of the media with the media clamp.

1 ① Move the left and right media clamps above the edges of the media.

With your finger, lightly press down on each media clamp at the location shown in the figure to move it and make it grip the media.



2 ② Line up the edges of the media with the centers of the holes of the media clamps.



2 ② Close the front cover.

3 ③ Press **SET UP**.

SET UP starts to flash.

W 1869mm

SET UP remains steadily lighted, and the printable width is displayed. This completes loading of the media.

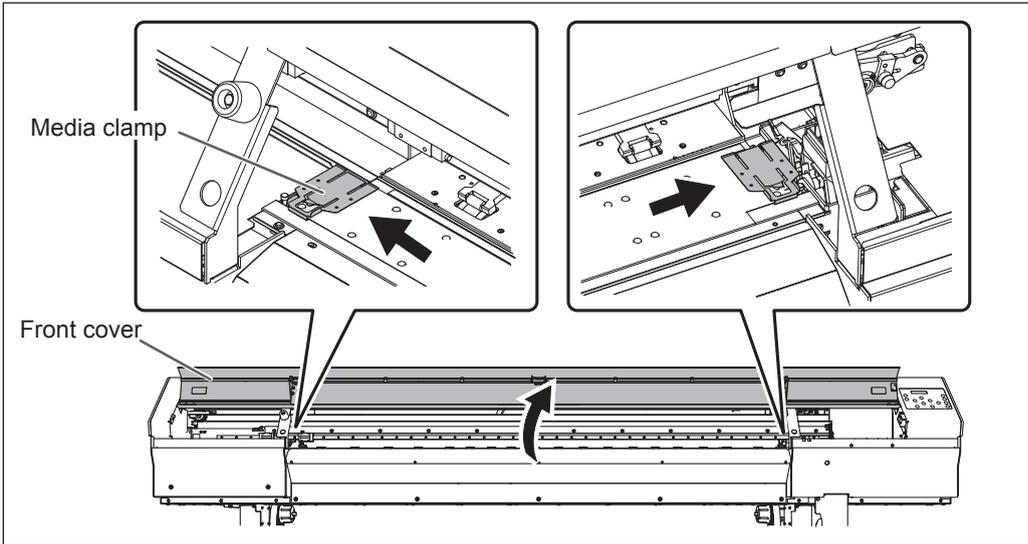
IMPORTANT! Remove when not using roll media.

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.

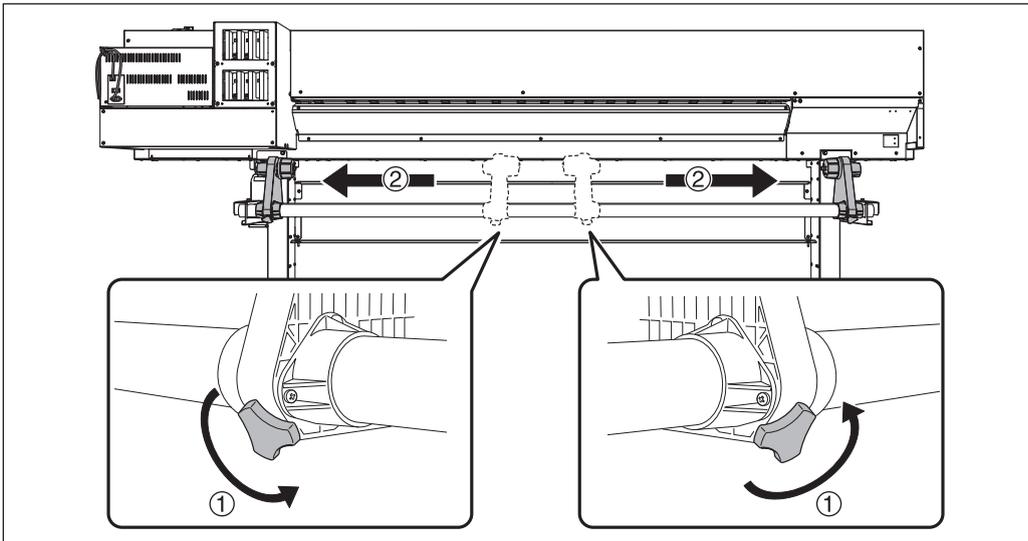
Loading the Sheet Media

Procedure

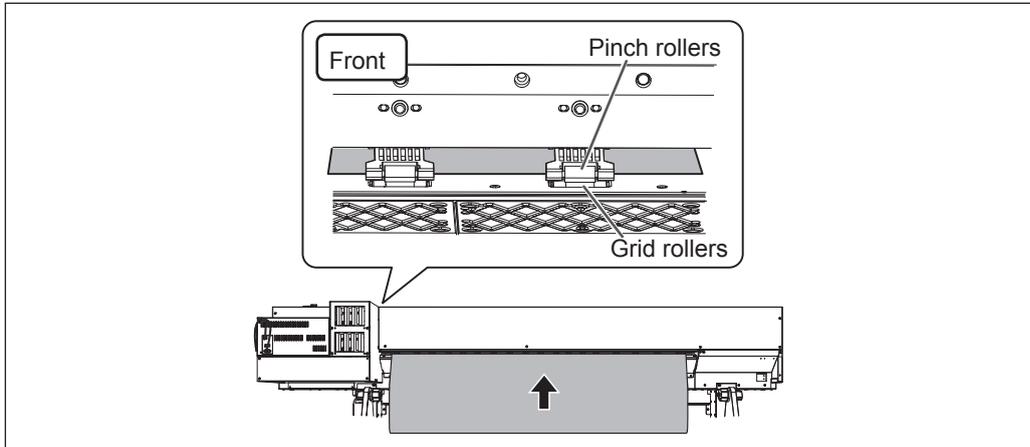
- 1**
 - ① Open the front cover.
 - ② Move the media clamps to the left and right ends respectively.



- 2** **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."

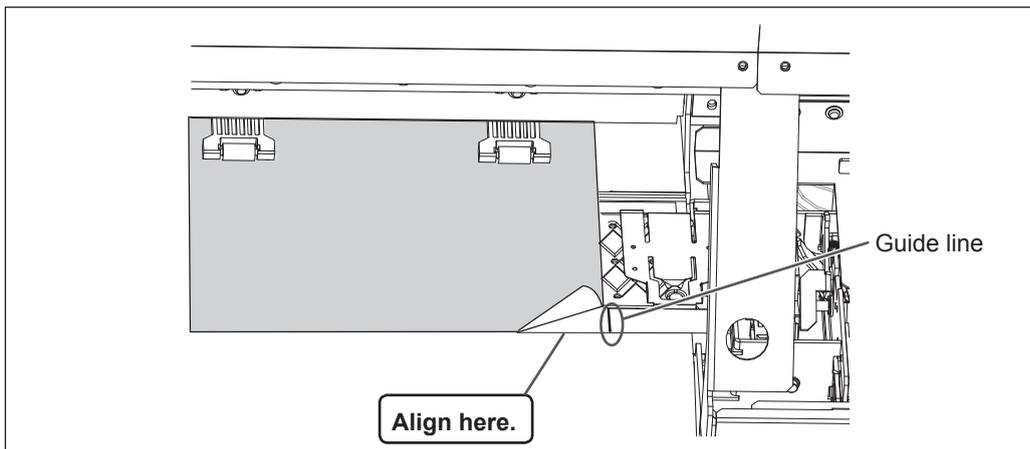


- 3** Pass the leading edge of the media between the pinch rollers and the grid rollers.



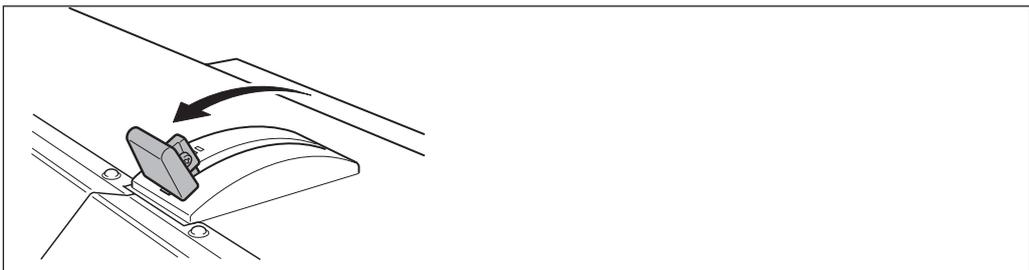
- 4** Align the front edge of the media with the location shown in the figure.

Line up the right edge of the media with the guide line, and align the front edge with the location shown in the figure. If the front edge of the media is cut at an angle, load the media so that its edge is lined up straight with the guide line.



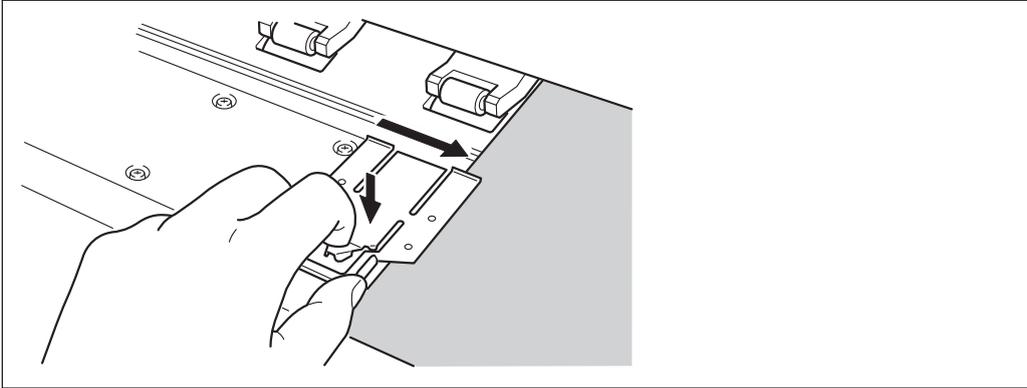
- 5** Pull back the loading lever.

The media is gripped between the pinch rollers and the grid rollers.

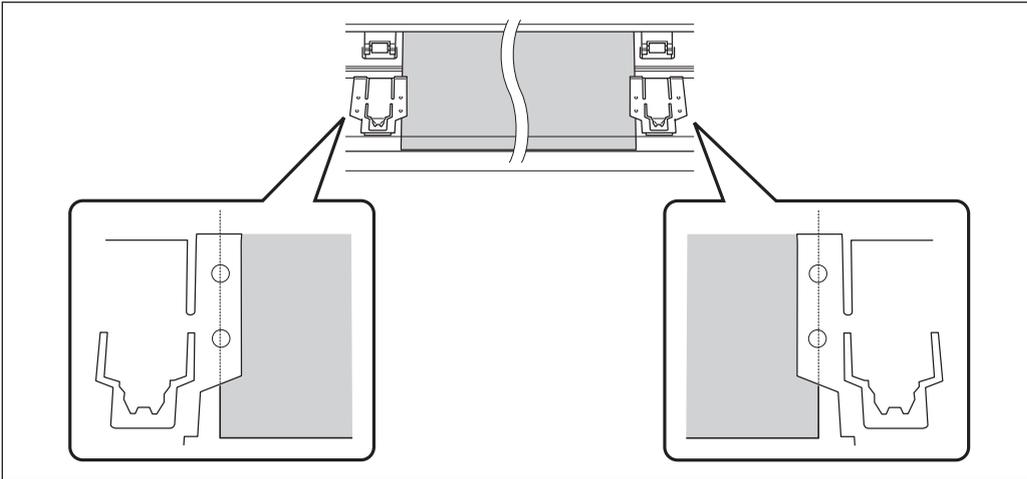


6 ① **Move the left and right media clamps above the edges of the media.**

With your finger, lightly press down on each media clamp at the location shown in the figure to move it and make it grip the media.



2 **Line up the edges of the media with the centers of the holes of the media clamps.**



7 **Close the front cover.**

8 **Press** **SET UP** .
SET UP starts to flash.



SET UP remains steadily lighted, and the printable width is displayed. This completes loading of the media.

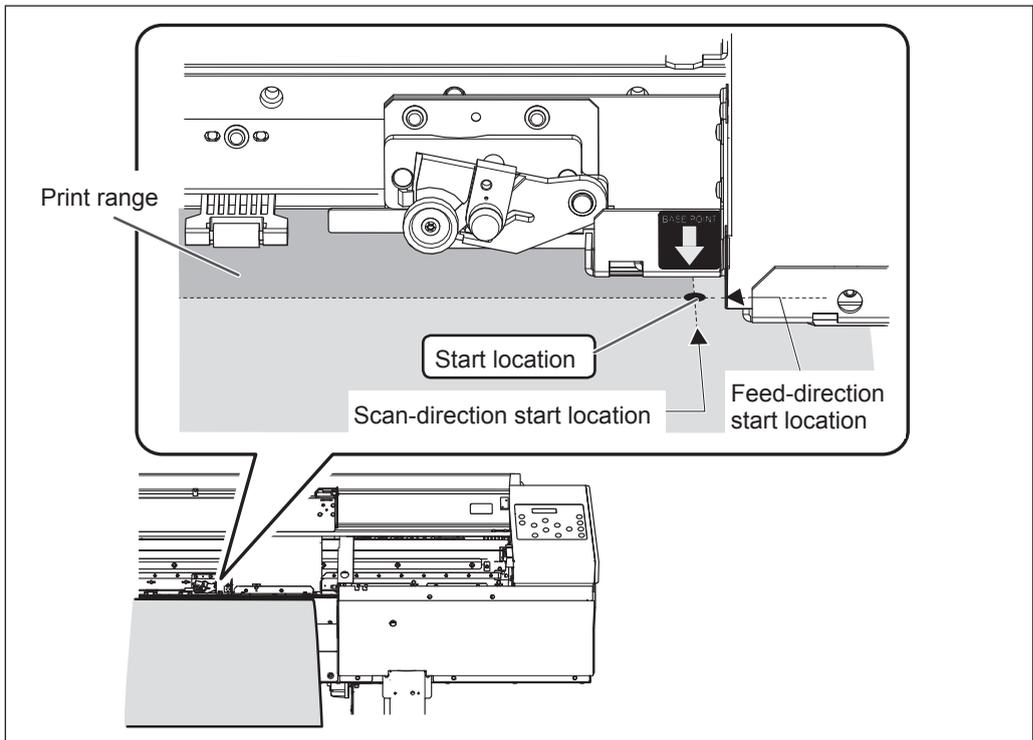
2-4 Printing

Set the print start location

You can set the print start location at any position. (Printing is possible without setting the location.) However, setting is required for each page because the machine returns to the initial condition after printing.

Procedure

- 1 Open the front cover.
- 2 Press     to move the point of the arrow of the sticker to the print start location as shown in the figure.



- 3 When the location is set, press .
- 4 Close the front cover.

W1100mm

When  lights up and the printable width at the location appears as shown in the left figure, setting is completed.

POINT!

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

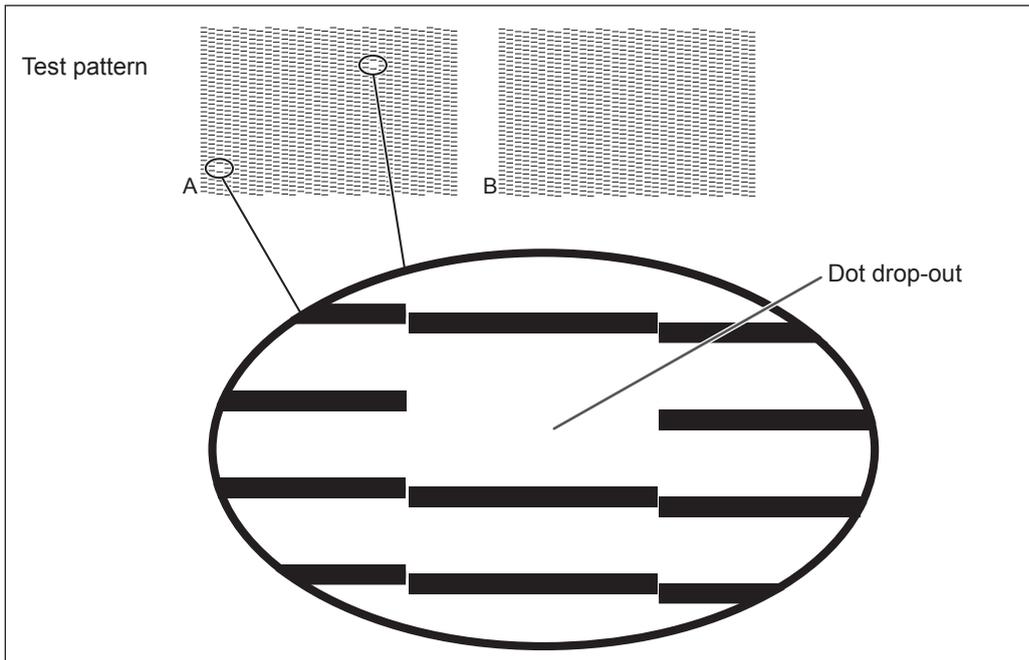
Printing Tests and Cleaning

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 heads (Normal Cleaning).

How to Perform a Printing Test

Procedure

- 1 Determine the print start location.**
☞ P. 41, "Set the print start location"
- 2 Holding down **TEST PRINT** for one second or longer.**
A test pattern is printed.

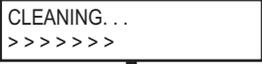


How to Perform a Normal Cleaning

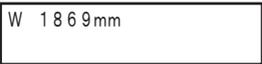
Procedure

1 Press **CLEANING**.

2  Press **ENTER**.
Normal cleaning starts.



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

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

4 **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. 56, "3-3 When Normal Cleaning Is Not Effective"

Getting Ready to Receive Data from a Computer

When P. 32, "2-3 Loading Media" is completed, get ready to receive the data from a computer.

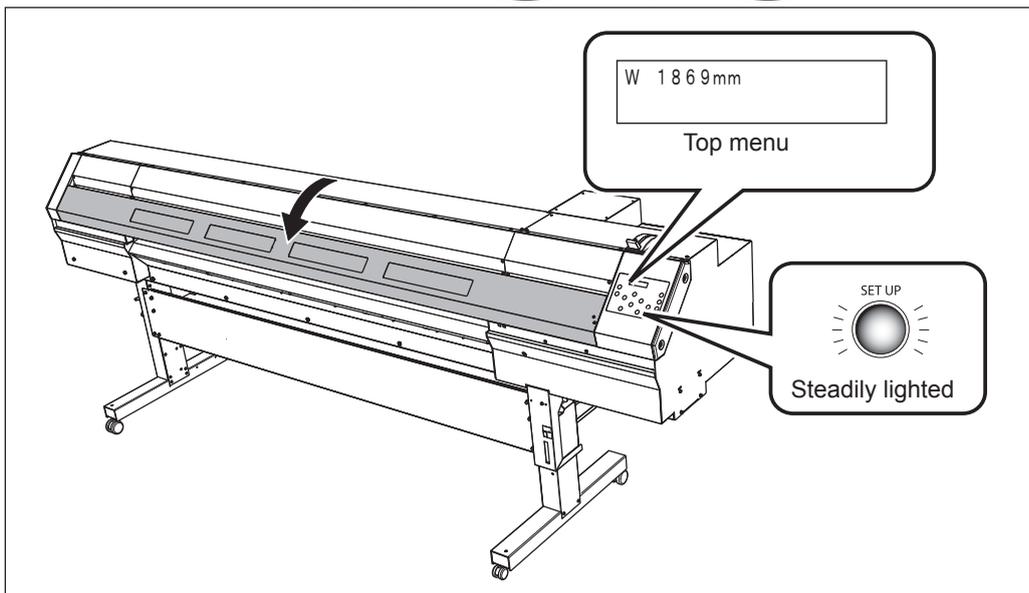
⚠ CAUTION

Do not touch the print heads during printing.

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

Procedure

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



POINT!

Printing is not possible in the following cases.

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

Start printing

Printing is possible after you complete the operation "Getting Ready to Receive Data from a Computer" on page 44. The following operation is necessary on the computer side before printing is possible.

① **Create print data.**

Create print data using an application software such as Adobe Illustrator. See the manual of the application software in use for creation method.

② **Send the print data to the machine using the software RIP.**

See the manual of the software RIP in use for usage.

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 heads.
- Do not touch the media during printing. Failure to do so may hinder media feed or cause the media to rub the print heads, thereby resulting in paper jam or breakage of the print 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. 51, "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. 50, "Checking for Remaining Ink"

Pause and cancel of printing

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.

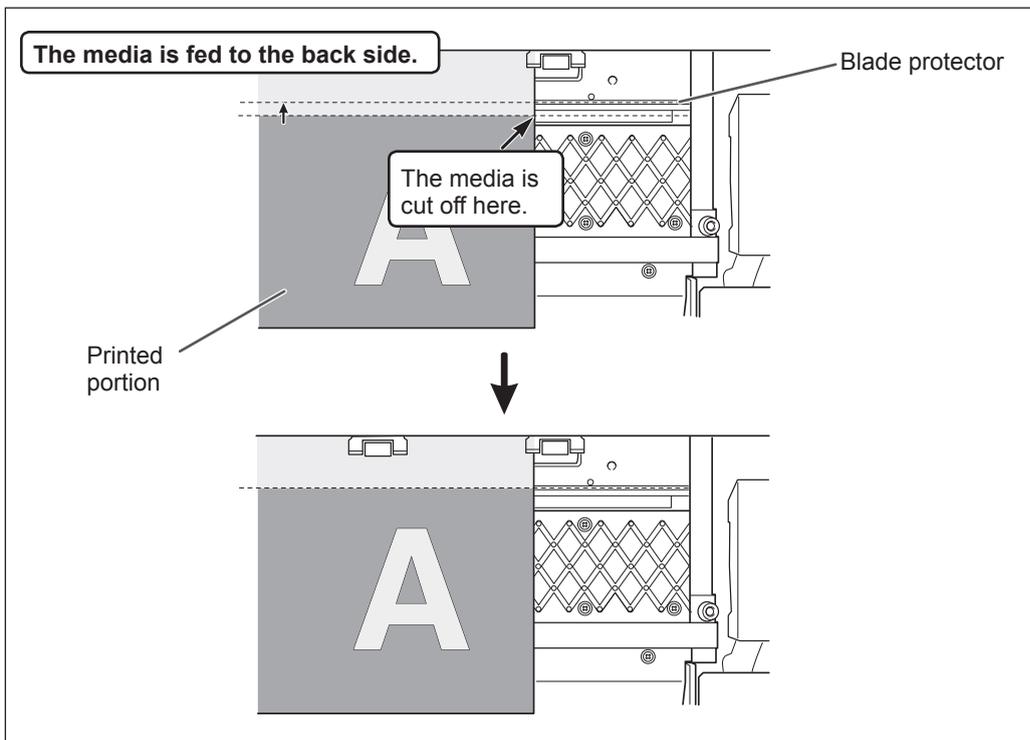
Procedure

- 1** Press **PAUSE** during printing.
This pauses printing operation.
- 2** **<To restart printing>**
Press **PAUSE** again.
<To cancel printing>
Hold down **SET UP** or one second or longer.
SET UP flashes.
Proceed to the next step.
- 3** **Stop sending data on the computer side.**
Canceling is completed when **SET UP** is turned off.

Cutting Off the Media

Procedure

- 1 Close the front cover.
- 2 Make sure **SET UP** lights up.
- 3 Hold down **SHEET CUT** for one second or longer.
The media is cut off.



IMPORTANT! Cut-off operations

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

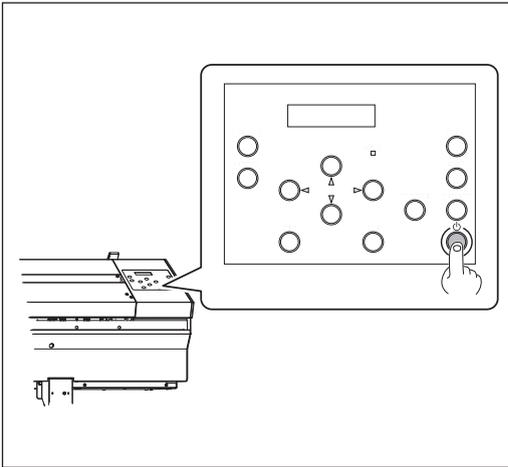
- For some types of media, cutoff is not possible.
- Some types of media may remain on the platen after cutoff. If the media remains on the platen, remove it by hand.

2-5 Switch Off

Switch Off

Procedure

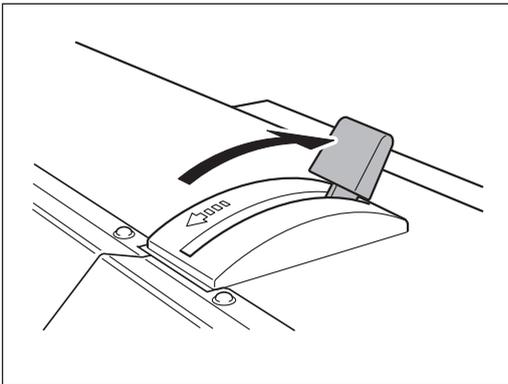
1



After printing is completed, press and hold the sub power switch for one second and longer.

The sub power is turned off.

2



Press back the loading lever.

Press down the loading lever to the back when the machine is not used even if the power is not turned off.

IMPORTANT!

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 heads. 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

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3-1 Checking the amount of the remaining ink and replacing the ink cartridges

Checking for Remaining Ink

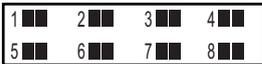
Procedure

1 Press **MENU**.



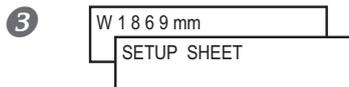
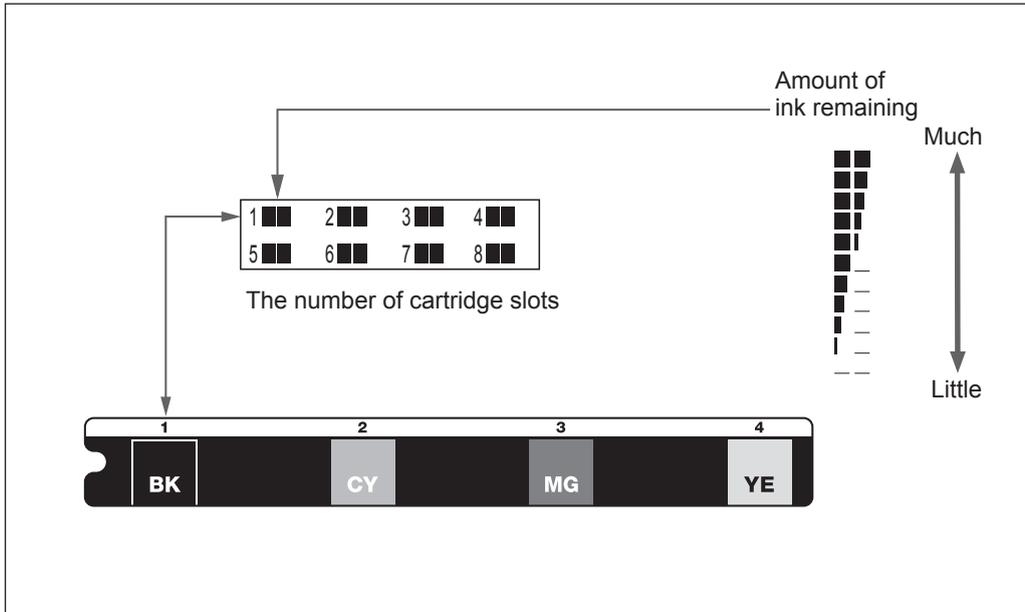
Press **▲** several times until the screen shown on the left appears.

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.

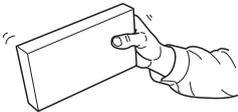


Press **MENU** **◀** in this order to go back to the original screen.

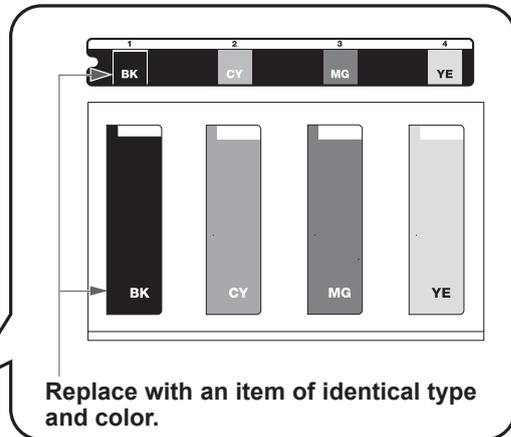
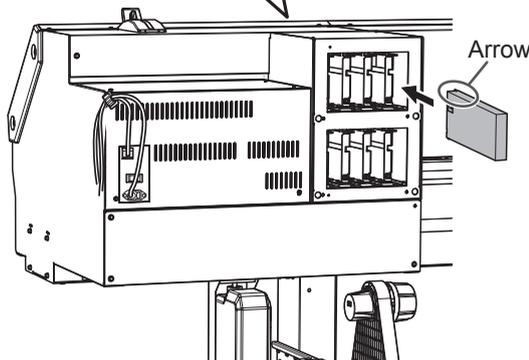
How to Replace Ink Cartridges

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

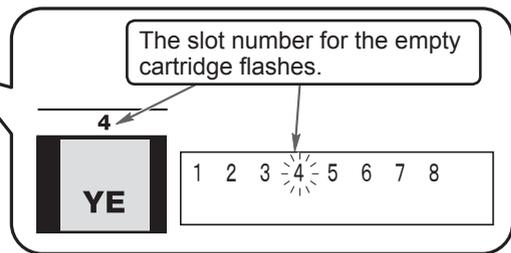
- Keep the labeled side face up.
- Insert and remove slowly, one at a time.
- Insert the new cartridge all the way until you hear a beep.



Make sure to gently shake the new cartridge before inserting it.



Replace with an item of identical type and color.



The slot number for the empty cartridge flashes.

IMPORTANT! Important notes on replacing cartridges

- Insert and remove slowly, one at a time.
- 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 heads 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 where high temperature may occur
 - Near bleach or any other such oxidizing agent or explosive material
 - Any location within the reach of children
- Accidental ingestion by children may pose a health hazard.

3-2 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 

When the message shown in the figure appears, press .

2 Press .

3 

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

Press , and then .

4 

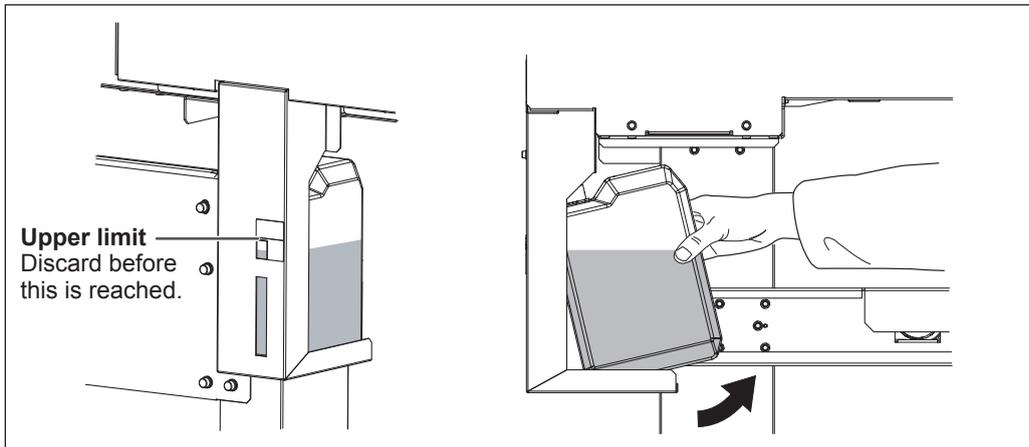
Press , and then .

5 

Press .

6 

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

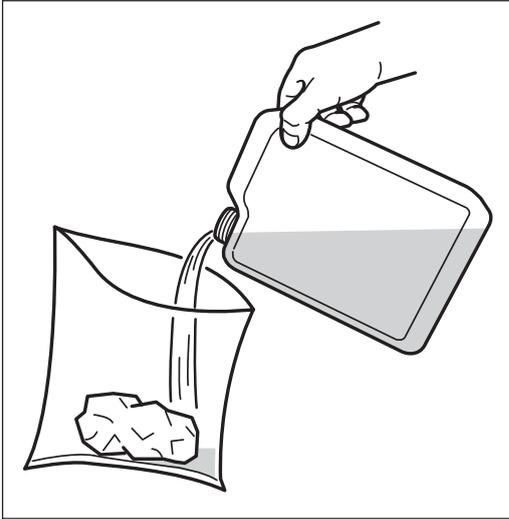


CAUTION

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 the discharged fluid in the drain bottle.

Put absorptive and flammable items such as paper and cloth in a plastic bag to soak up the discharged fluid. Seal up the plastic bag after the discharged fluid is soaked up.

IMPORTANT!

Discharged fluid must be processed according to the related laws (state, prefectural, and local laws and ordinances).

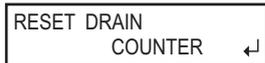
8



Attach the emptied drain bottle to the machine.

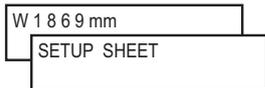
Press **ENTER**.

9



Press **ENTER**.

10



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

Cleaning

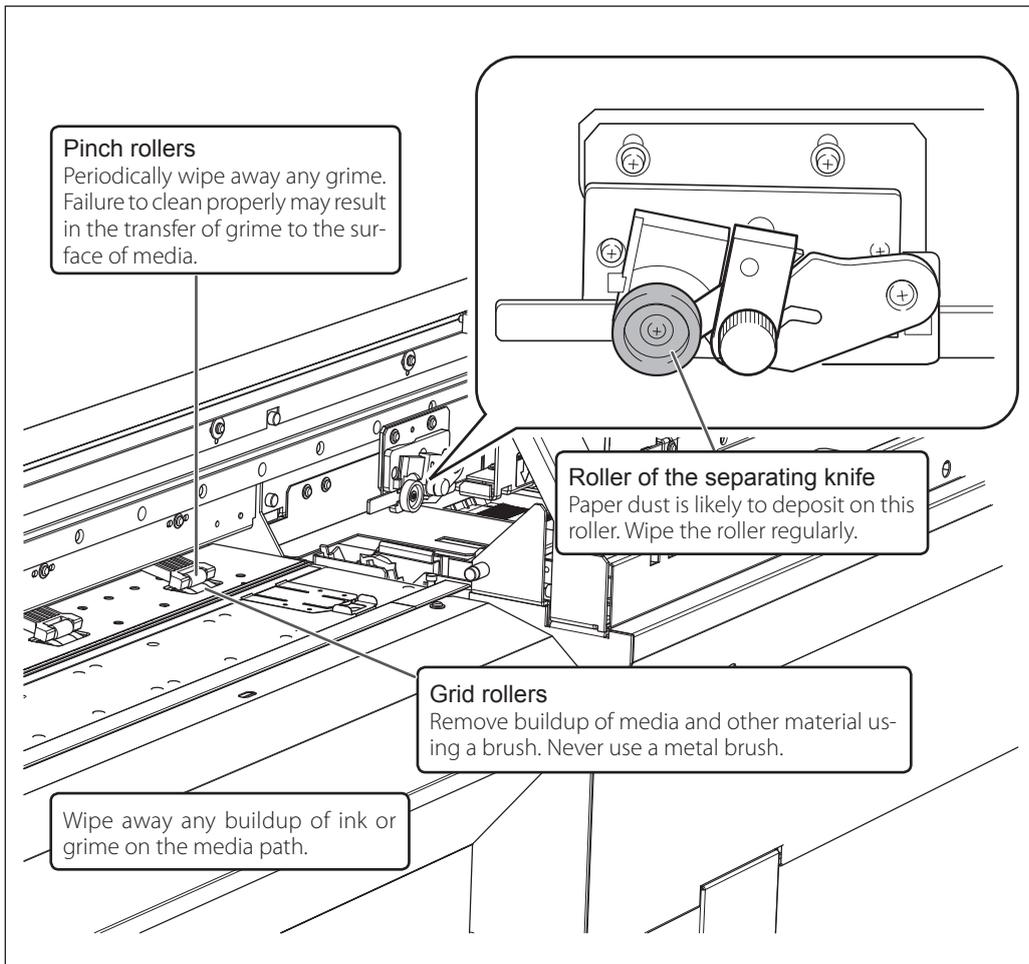
⚠WARNING Never use gasoline, alcohol, thinner, or any other flammable material. Doing so may cause fire.

⚠CAUTION Before attempting cleaning, switch off the sub power. Sudden movement of the machine may cause injury.

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 Heads

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

Daily Care and Maintenance

➤ **Printing Tests and Cleaning**

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

☞ P. 42, "Printing Tests and Cleaning"

Periodic Care and Maintenance

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

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

☞ P. 57, "Medium/ Powerful Cleaning"

☞ P. 58, "Super Cleaning"

➤ **Manual Cleaning of Print Heads**

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

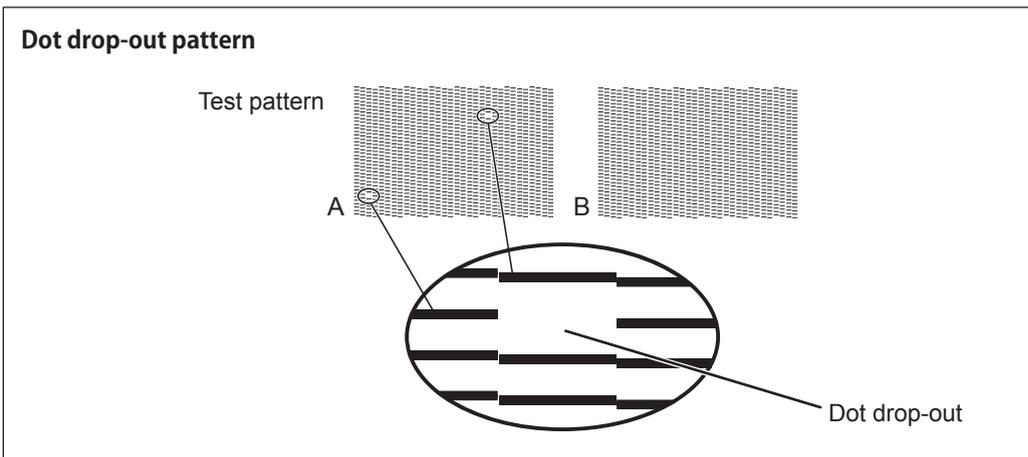
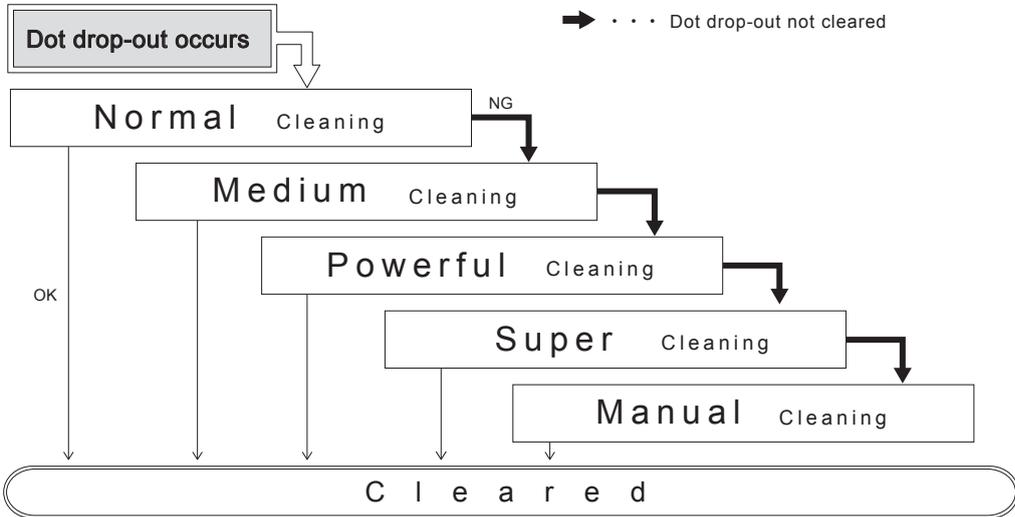
☞ P. 62, "Manual Cleaning of Print Heads"

* The print heads are 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.

3-3 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

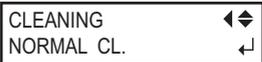
When the problems such as dot drop-out are not cleared up by the "normal cleaning" (P. 42, "Printing Tests and Cleaning"), try the more forceful "medium cleaning." If the condition is not improved, try the even more forceful "powerful cleaning."

POINT!

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

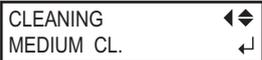
Procedure

1 Press **CLEANING**.

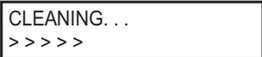
2 

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

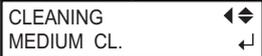
3 If You Choose "MEDIUM CL."



Press **ENTER**.

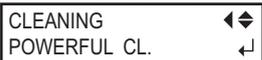


The screen shown in the figure appears, then cleaning starts.



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

If You Choose "POWERFUL CL."



Press **ENTER**.



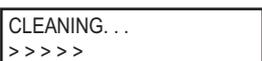
Check the amount of the discharged fluid and proceed to the next step.

When disposing the discharged fluid:

Follow the procedure explained in P. 52, "Disposing of Discharged Ink". Then, perform "Powerful Cleaning" again.

When not disposing the discharged fluid:

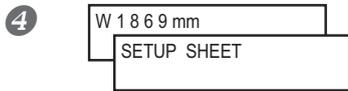
Press **ENTER**.



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



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



Press **MENU** **◀** in this order 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

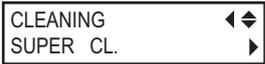
Super cleaning is a menu that should be used when the problems such as dot drop-out are not cleared up by powerful cleaning.

POINT!
 However, that the super cleaning consumes more ink than medium and powerful cleaning, and too-frequent use may damage the print heads themselves. Avoid using it more than necessary.

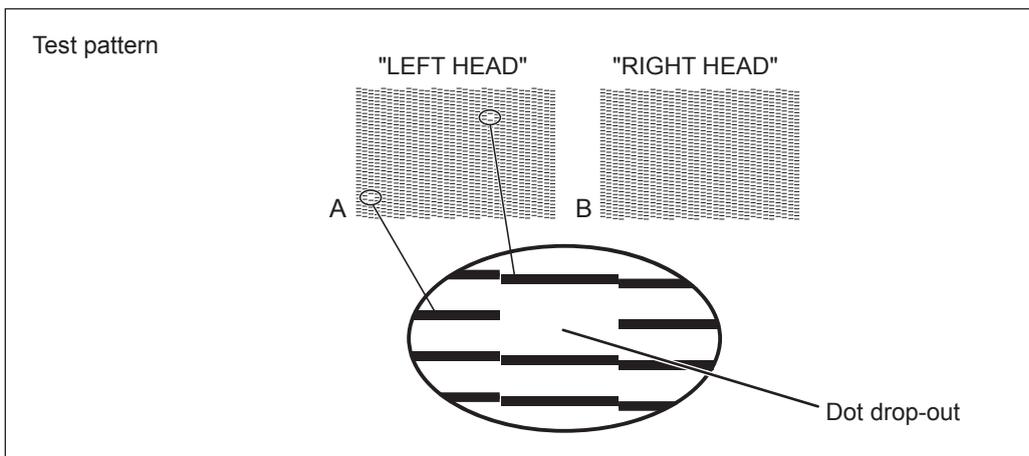
1. Select "super cleaning " menu.

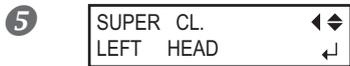
1 Perform a printing test.
 ⇨ P. 42, "How to Perform a Printing Test"

2 Press **CLEANING.**

3  **Press **▼** several times, and select "SUPER."**
Press **▶.**

4 Check the group with dot drop-out by viewing the printing-test results.





Press **▲** or **▼** and select "LEFT HEAD" or "RIGHT HEAD."

When dot drop-out is found in A: Select "LEFT HEAD."

When dot drop-out is found in B: Select "RIGHT HEAD."

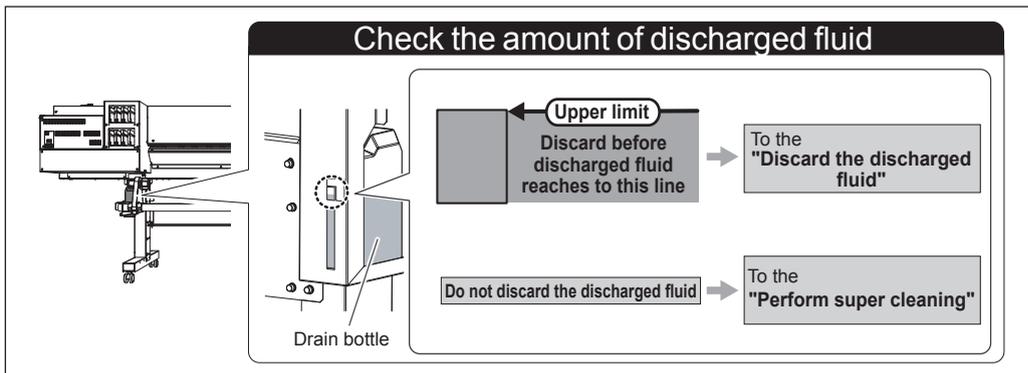
Press **ENTER** to enable the setting.

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



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 **ENTER** before you check the amount of the discharged fluid. If you press this button, cleaning starts, and discharged fluid may spill.

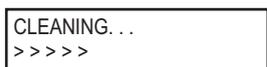


Discard the Discharged Fluid

- 1 Press **MENU**.
- 2 Properly discard the discharged fluid in accordance with the instructions given in P. 52, "Disposing of Discharged Ink"
- 3 Perform "Super Cleaning" from the first.

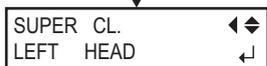
Perform the Super Cleaning

- 1 Press **ENTER**.



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

When it is finished, the screen shown in the figure appears again.



3-3 When Normal Cleaning Is Not Effective

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

When you perform cleaning on both the left and right print heads, go on to step **1.** - **2.** and perform cleaning on the other print heads.

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 Heads." Such cleaning can be effective when carried out periodically, according to the frequency of use.

☞ P. 62, "Manual Cleaning of Print Heads"

3-4 Maintenance that Should Be Performed More Than Once a Month

When Manual-Cleaning Becomes Necessary

Perform The Manual Cleaning More Than Once a Month.

Perform manual cleaning once a month at least to maintain stable printing quality. The manual cleaning takes approximately 10 minutes.

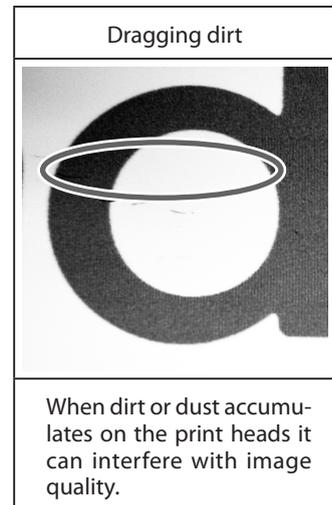
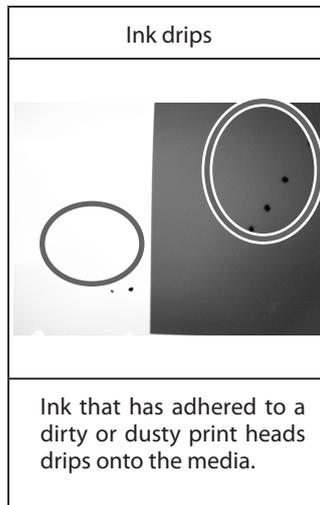
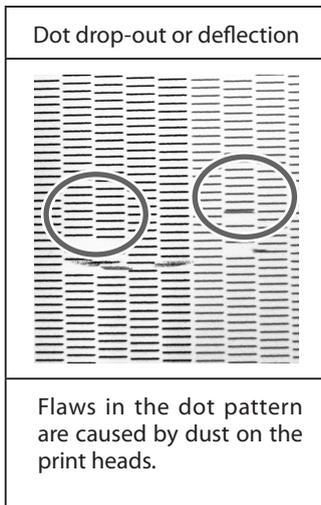
The Manual Cleaning is Recommended When The Following Symptoms Occur.

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. 66, "Replacing the Wiper"

☞ P. 70, "Replacing the Felt Wiper"



* When the cleaning stick for the manual cleaning runs out, place an order for them with your authorized Roland DG Corp. dealer.

* The print heads are components that wear 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 Heads

IMPORTANT!

Important notes on this procedure

- Before attempting this operation, remove any media.
- To prevent the print 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 print heads. If you use up the cleaning stick, purchase a new one from your authorized Roland DG Corp. dealer.
- Use one cleaning stick per cleaning session, then discard the stick after use. Reusing cleaning sticks may reduce printing quality.
- Never rub the nozzle surface of the print heads.
- Stroke the sponges very gently, applying as little pressure as possible. Never rub, scrape, or crush them.

When a warning beep sounds during cleaning

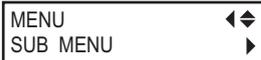
A warning beep sounds in 30 minutes after the operation is started. At this time, stop work, and follow the procedure in step 3 on page 65 to attach the maintenance cover, then close the front cover. Press **ENTER** to quit the manual-cleaning menu. After that, restart the procedure from the beginning.

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

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

1 Remove any media.

2 Press **MENU**.

3 

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

4 

Press **▶**.

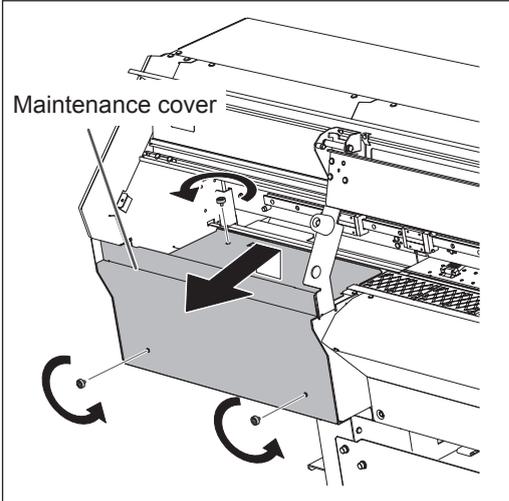
5 

Press **ENTER**.

6

OPEN MAINTENANCE COVER

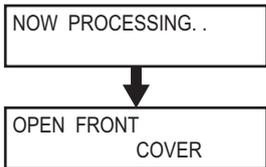
When the screen shown on the left appears, open the front cover and remove the maintenance cover.



7

Close the front cover.

Press **ENTER**.



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

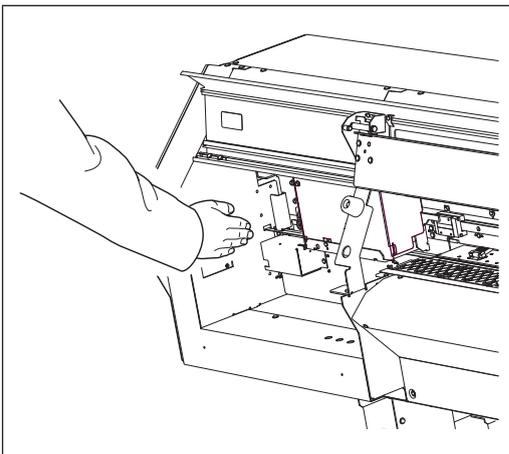
8

Open the front cover.

FINISHED?

Preparations are complete when this screen appears.

9

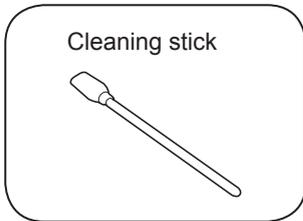


Touch the location shown in the figure to discharge any static electricity.

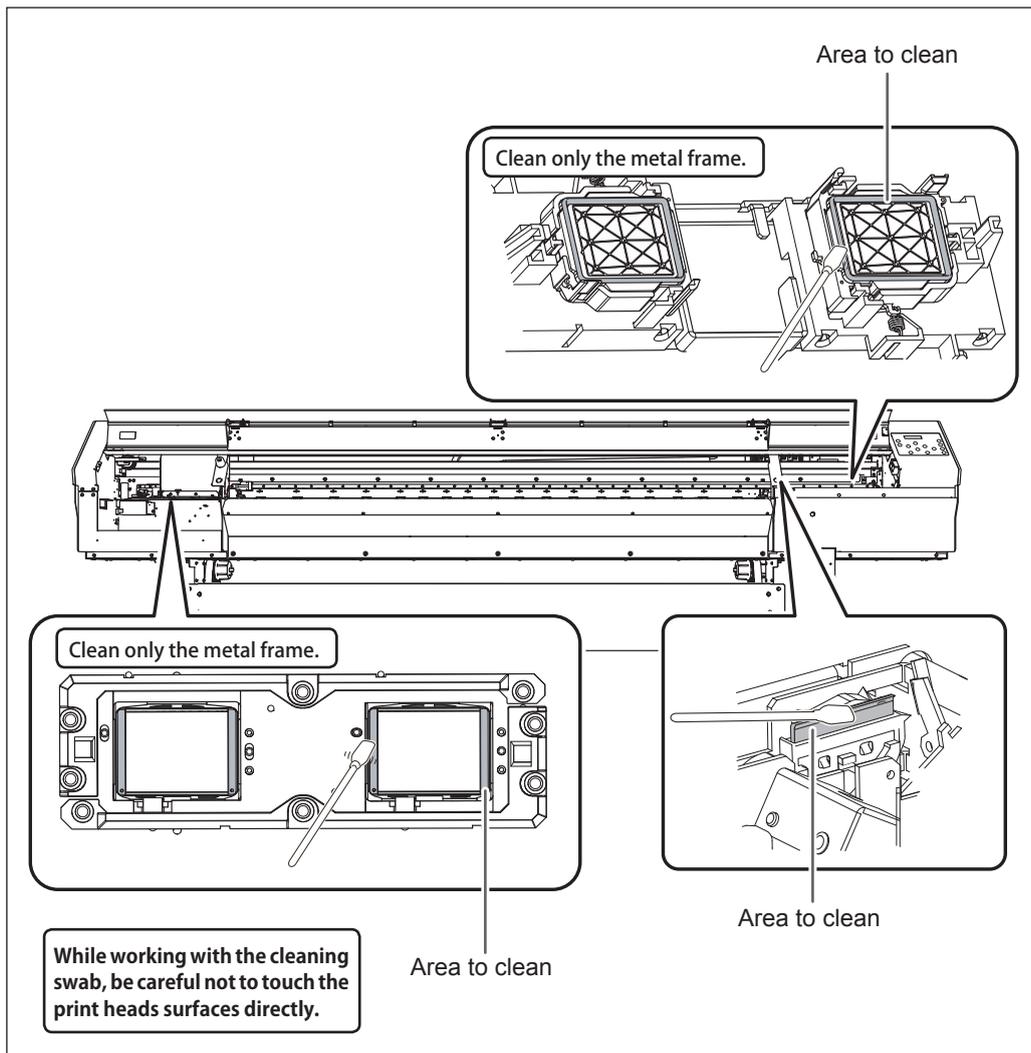
2. Clean using the cleaning stick.

Perform cleaning at the areas shaded in the figure below.

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



Be sure to clean using one of the included cleaning sticks.



3. Finish the print-head manual-cleaning menu.

1 FINISHED? ↵

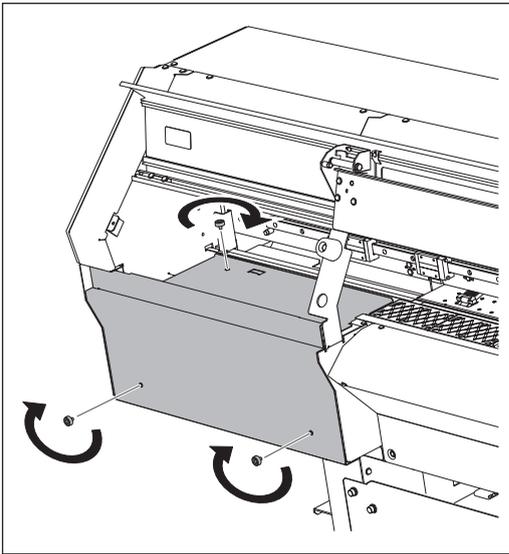
Close the front cover.
Press **ENTER**.

CLEANING...
>>>>

CLOSE MAINTENANCE COVER ↵

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

2



Open the front cover.
Attach the maintenance cover.

3

CLOSE MAINTENANCE COVER ↵

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

4

SETUP SHEET

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

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

Perform a printing test to check the results.

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

☞ P. 42, "Printing Tests and Cleaning"

3-5 Replacing Consumable Parts

Replacing the Wiper



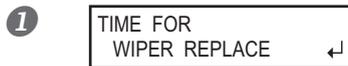
The wiper is a component that you use when cleaning the print heads. When the screen displays a message like the one shown, it means the item needs to be replaced. Replace with new items.

For more information about purchasing wipers and gloves, 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.

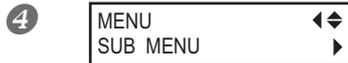
1. Enter the wiper replacement menu.



When the message shown in the figure appears, press .

2 Remove any media from the platen.

3 Press .



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

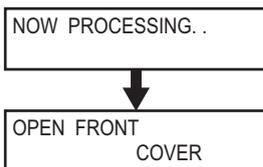
Press , and then .



Press , and then .

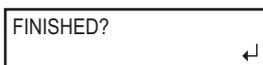


Press .



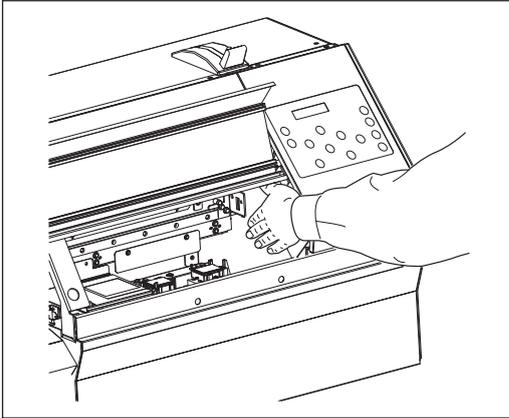
The print-head carriage moves to a location where wiper replacement is possible, and then the screen shown in the figure appears.

7 Open the front cover.



Preparations are complete when this screen appears.

8

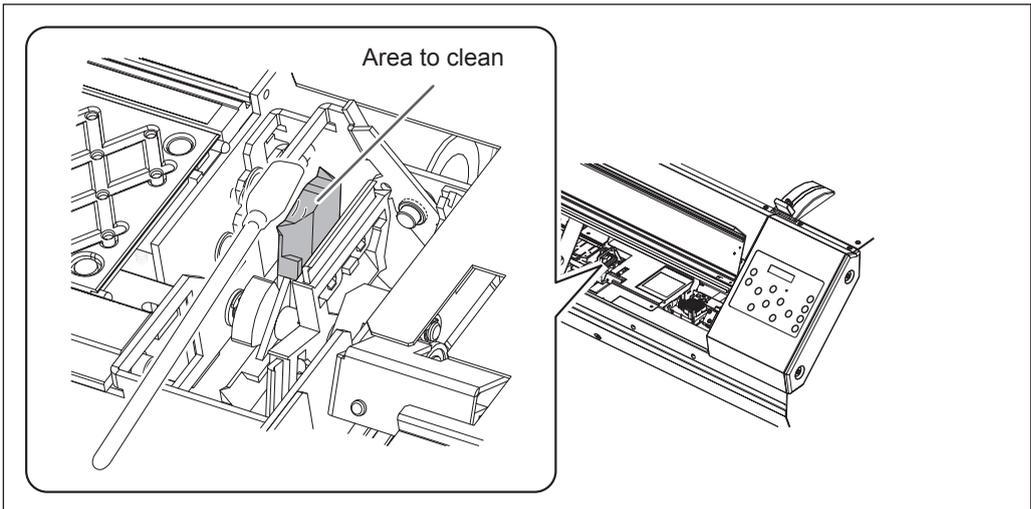


Touch the location shown in the figure to discharge any static electricity.

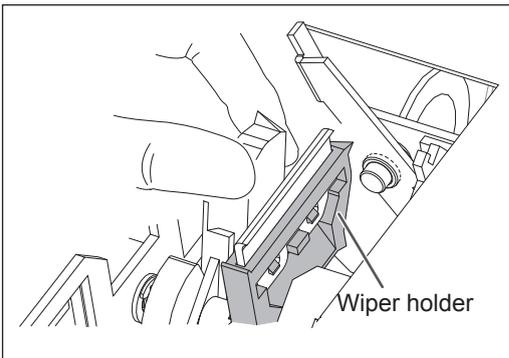
2. Replace the wiper.

1

Clean the indicated portion using the cleaning stick.



2



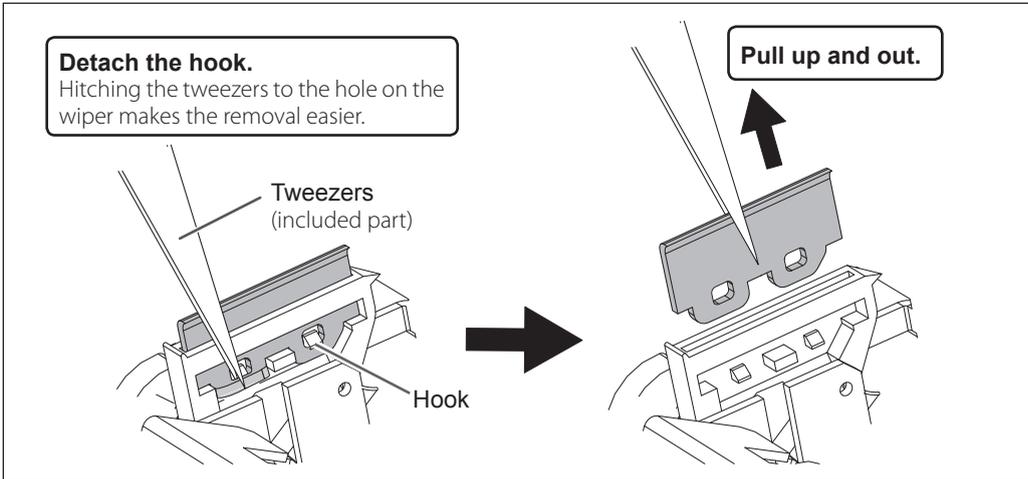
- ① Wear the supplied gloves.
- ② Hold the cleaned portion and fix the wiper holder to the location indicated in the drawing.

Be sure to wear the supplied gloves when holding the cleaned portion.

POINT!

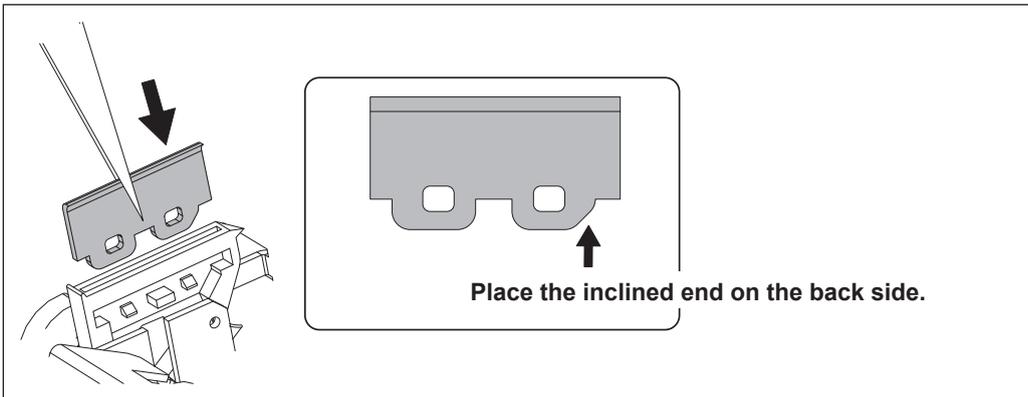
The wiper holder rotates. Follow the step ② when replacing the wiper. If the wiper holder should rotate during operation, touch the cleaned portion and return it to the location indicated in step ②.

③ **Detach the old wiper.**

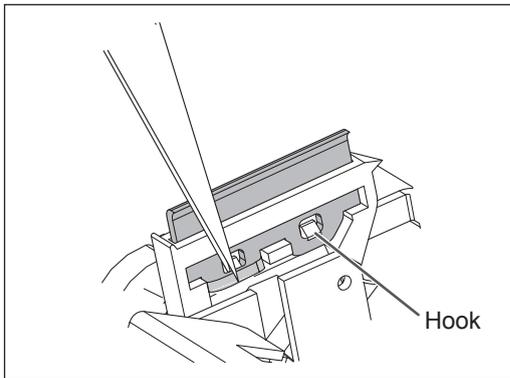


④ **Insert the new wiper.**

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



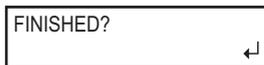
5

**Attach the hook.**

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

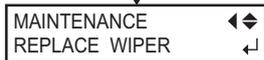
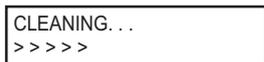
3. Quit the wiper replacement menu.

1



Close the front cover.

Press **ENTER**.



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

2



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

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

Perform a printing test to check the result.

☞ P. 42, "Printing Tests and Cleaning"

Replacing the Felt Wiper

TIME FOR
FELT REPLACE ↵

The felt wiper is a component that you use when cleaning the print heads. When the screen displays a message like the one shown, it means the item needs to be replaced. Replace with new items.

For more information about purchasing felt wipers and gloves, 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.

1 TIME FOR
FELT REPLACE ↵

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

2 Remove any media.

3 Press **MENU**.

4 MENU
SUB MENU ▶◀

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

5 SUB MENU
MAINTENANCE ▶◀

Press **▶**. Press **▼** twice.

6 MAINTENANCE
REPLACE FELT ↵

Press **ENTER**.

NOW PROCESSING. .



OPEN FRONT
COVER

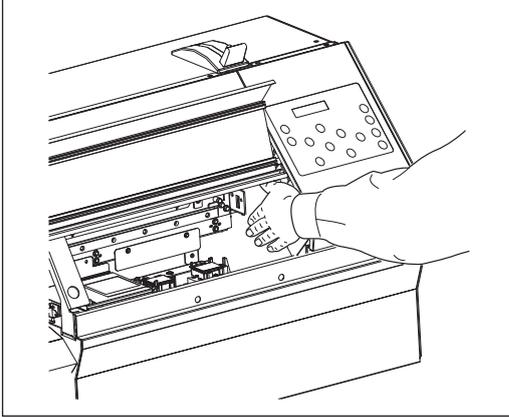
The print-head carriage moves to a location where felt wiper replacement is possible, and then the screen shown in the figure appears.

7 Open the front cover.

FINISHED? ↵

Preparations are complete when this screen appears.

8

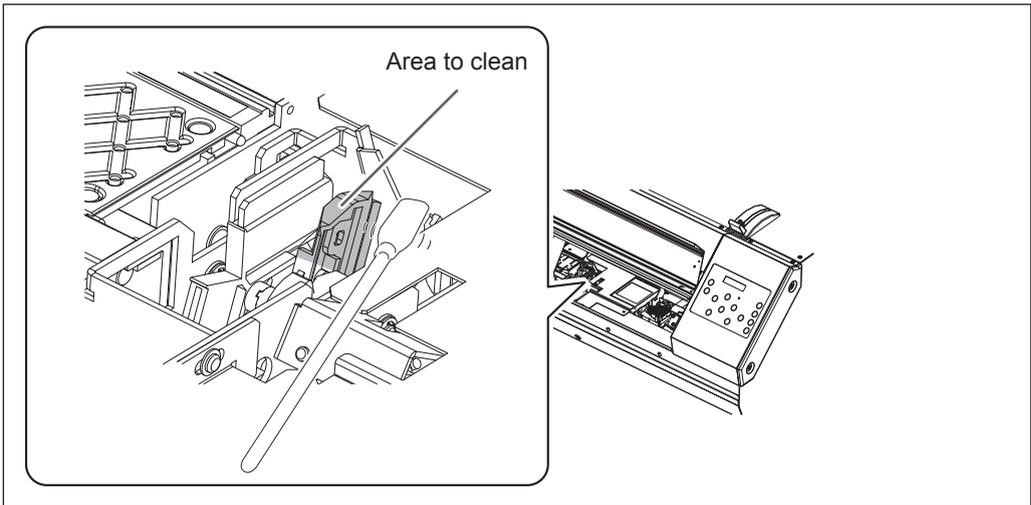


Touch the location shown in the figure to discharge any static electricity.

2. Replace the felt wiper.

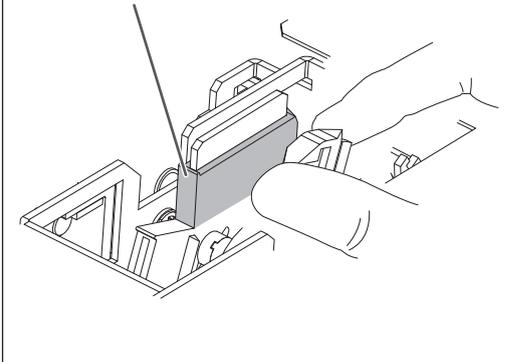
1

Clean the indicated portion using the cleaning stick.



2

Felt wiper holder



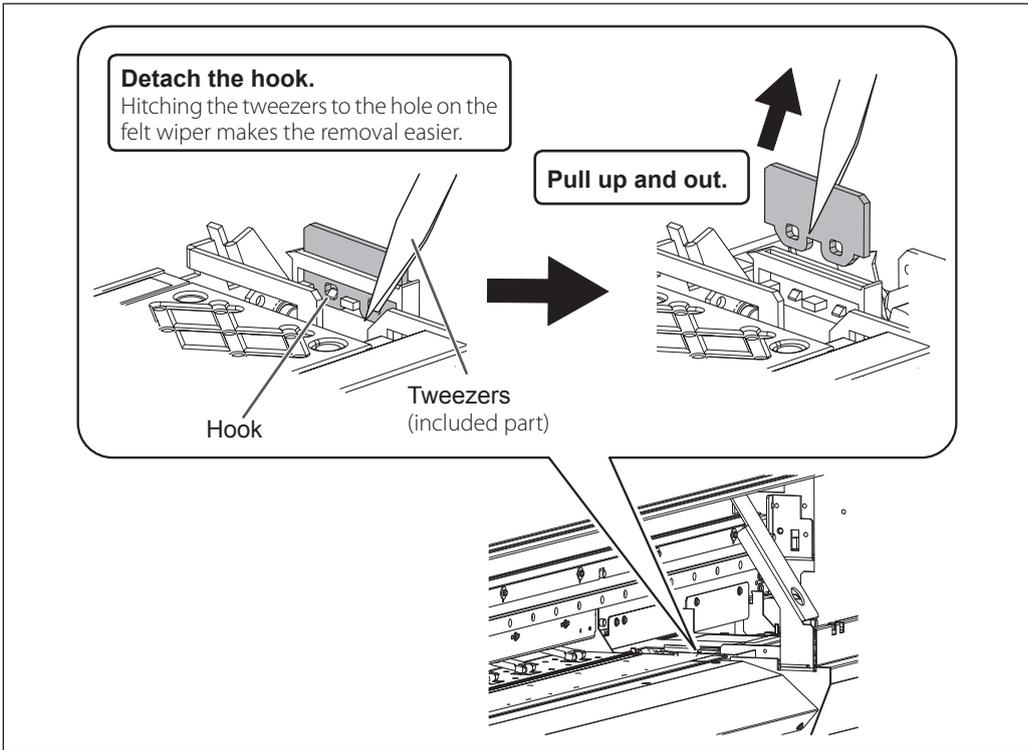
- ① Wear the supplied gloves.
- ② Hold the cleaned portion and fix the felt wiper holder to the location indicated in the drawing.

Be sure to wear the supplied gloves when holding the cleaned portion.

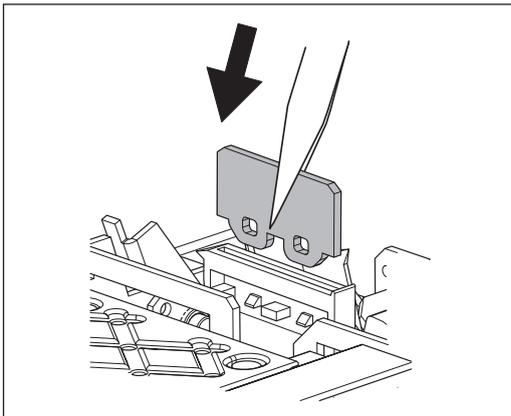
POINT!

The felt wiper holder rotates. Follow the step ② when replacing the felt wiper. If the felt wiper holder should rotate during operation, touch the cleaned portion and return it to the location indicated in step ②.

③ Detach the old felt wiper.

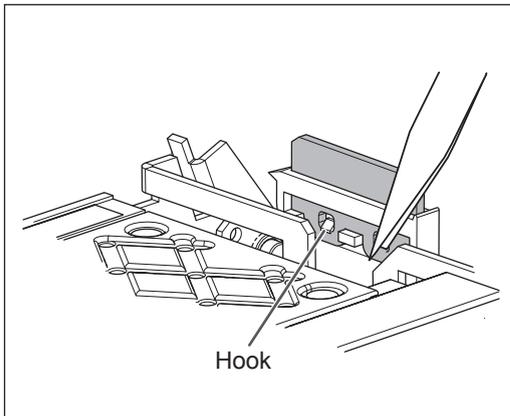


④



Insert the new felt wiper.

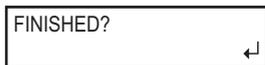
5

**Attach the Hook.**

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

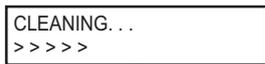
3. Quit the felt wiper replacement menu.

1



Close the front cover.

Press **ENTER**.



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

2



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

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

Perform a printing test to check the result.

☞ P. 42, "Printing Tests and Cleaning"

Replacing the Separating Knife

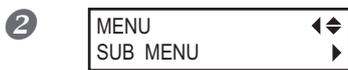
If the separating knife becomes dull, replace it with the included replacement knife.

⚠ 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. Enter the separating knife replacement menu.

1 Press **MENU**.



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

Press **▶**, and then **▲**.

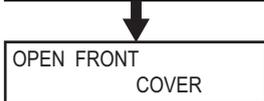
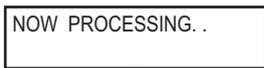


Press **▶**.



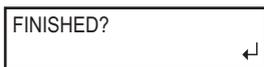
Press **▼** several times to display the screen shown on the left.

Press **ENTER**.



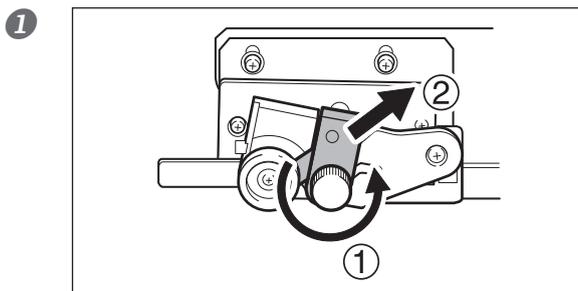
The print-head carriage moves to a location where blade replacement possible, and then the screen shown in the figure appears.

5 Open the front cover.



Preparations are complete when this screen appears.

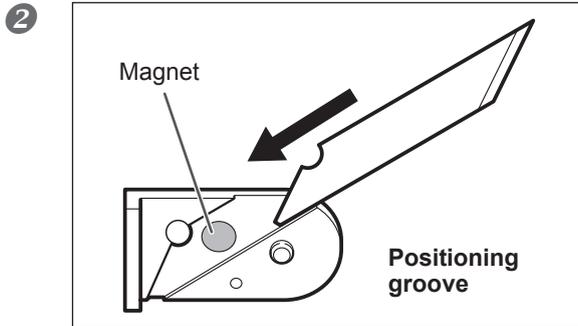
2. Replace the separating knife.



Remove the separating knife.

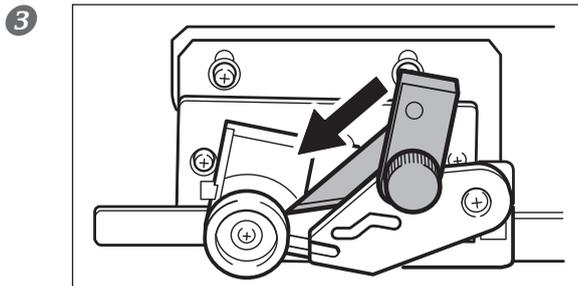
① Loosen the screw until it slips out.

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

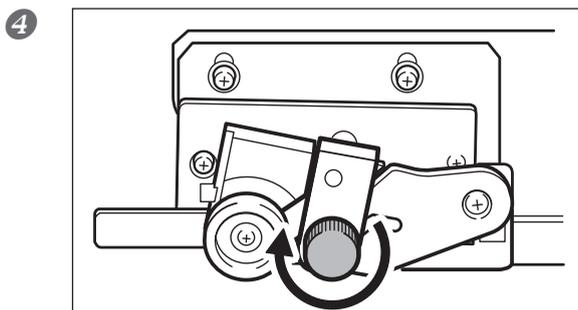


Install a new knife.

The knife is secured in place by the magnet.



Slowly insert it into the groove.



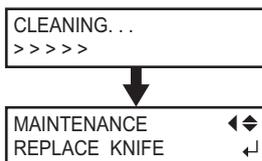
Tighten the screw.

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

3. Quit the separating knife replacement menu.

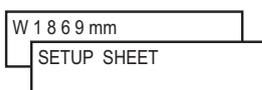
1 **Close the front cover.**

Press **ENTER**.



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

2



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

3-6 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 heads from drying out. Allowing the machine to stand completely unused for a prolonged period may damage the print heads, so be sure to switch on the power to perform these automatic operations.

Keep at a Constant Temperature and Relative Humidity

Even when the machine is not in use, keep it at a temperature of 5 to 40°C (41 to 104°F) and a relative humidity of 20 to 80% (with no condensation). 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 print heads.

Important Note on Draining Ink

INK CONTROL PUMP UP	◀◆ ↙
------------------------	---------

INK CONTROL HEAD WASH	◀◆ ↙
--------------------------	---------

The machine is provided with functions to drain internal ink and clean the inside using a cleaning cartridge (for water-based ink). However, do not use these functions except in special circumstances.

Allowing the machine to stand without ink for a prolonged period may damage the print heads, even if internal washing is performed. Once ink has been filled, then as a rule the ink should never be drained.

Chapter 4

Part of Practice

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4-1 Fully Utilizing Preset Function

Saving Optimized Media Settings As Preset Values

Procedure

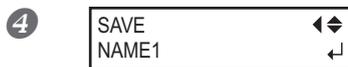
1 Press **MENU**.



Press **▶**, and then **▼**.



Press **▶**.



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

Press **ENTER** to enable the setting.

The present menu settings are saved.



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

Description

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

☞ P. 79, "Loading a Saved Preset"

☞ P. 79, "Assigning a Name to a Preset"

[ADJUST BI-DIR SIMPLE SETTING]	☞ P. 81, "Correcting for Misalignment in Bidirectional Printing"
[ADJUST BI-DIR DETAIL SETTING]	☞ P. 82, "Correcting for Misalignment in Bidirectional Printing More Precisely"
[CALIBRATION]	☞ P. 84, "Alleviating Horizontal Bands and the Like (feed correction function)"
[SHEET TYPE], [SHEET WIDTH], [SHEET POS.]	☞ P. 86, "Using Transparent Media"
[SIDE MARGIN]	☞ P. 92, "Scale down/up the margins"
[SCAN INTERVAL]	☞ P. 88, "Printing Hard-to-dry Media"
[VACUUM POWER]	☞ P. 88, "Using the Media Easy to be Winkled/Hard to be Fed"
[FULL WIDTH S]	☞ P. 90, "Set the range of print heads movement during printing"

Loading a Saved Preset

Procedure

1 Press **MENU**.



Press **▶** twice.



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



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

Description

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

Assigning a Name to a Preset

Procedure

1 Press **MENU**.



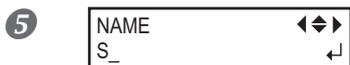
Press **▶**.
Press **▼** twice.



Press **▶**.



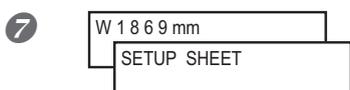
Press **▲** **▼** to select one of NAME1 through 8.
Press **▶**.



Press **▲** **▼** to enter a character.
When a character is decided, press **▶**.



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



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

4-1 Fully Utilizing Preset Function

Description

This assigns a name to a saved preset. Using media names may aid recognition and clarity.

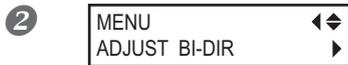
The characters you can enter are "A" through "Z," "0" through "9," and the "-" character. You can enter up to 15 characters, including spaces.

4-2 Fully Utilizing the Correction Function

Correcting for Misalignment in Bidirectional Printing

Procedure

1 Press **MENU**.



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

Press **▶**.



Press **ENTER**.

A test pattern is printed.

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

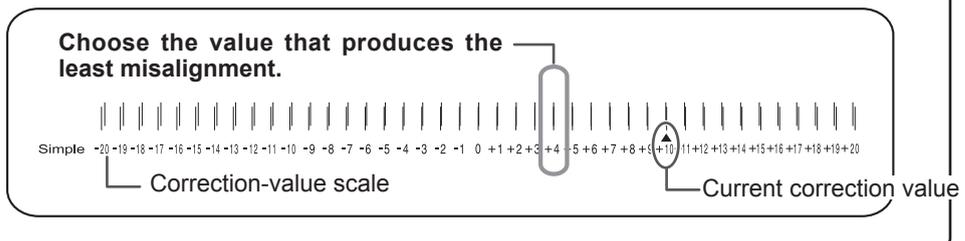


Press **▲** **▼** to select a correction value.

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

Description

This machine prints by the bidirectional mode (in which the print heads perform printing during both their outbound pass and return pass). This printing method is called "Bidirectional Printing." This has advantage in reducing the printing time but causes subtle misalignment during reciprocation.

The procedure to correct this and eliminate misalignment is "Bidirectional Correction." This misalignment varies according to the print-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.

1. Print a test pattern.

1 Press **MENU**.

2

MENU	◀▶
ADJUST BI-DIR	▶

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

3

ADJUST BI-DIR	◀▶
DETAIL SETTING	▶

Press **▶**.

4

DETAIL SETTING	◀▶
TEST PRINT	↵

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

2. Read the correction values from the test pattern.

To decide a correction value

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

Choose the value that produces the least misalignment.

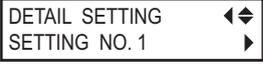
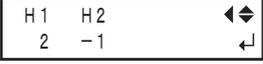
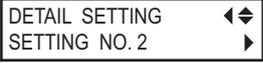
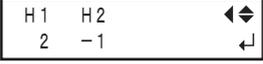
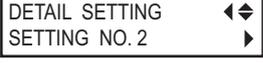
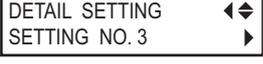
Correction-value scale Current correction value

NO.1 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12 +13 +14 +15 +16 +17 +18 +19 +20

NO.2 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12 +13 +14 +15 +16 +17 +18 +19 +20

NO.3 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12 +13 +14 +15 +16 +17 +18 +19 +20

3. Enter the correction values that you read.

- 1  Press .
- 2  Press .
- 3  Press   to select correction value for H1 of NO.1.
 Press .
 Press   to select the correction value for H2 of NO.1.
 When correction value settings end, press .
- 4  Press .
- 5  Press .
- 6  Press   to select correction value for H1 of NO.2.
 Press .
 Press   to select the correction value for H2 of NO.2.
 When correction value settings end, press .
- 7  Press .
- 8  Set the correction values for H1 and H2 of NO.3 to NO.12 similarly.
- 9 After completing the setting of all correction values, press  and then  to return to the original screen.

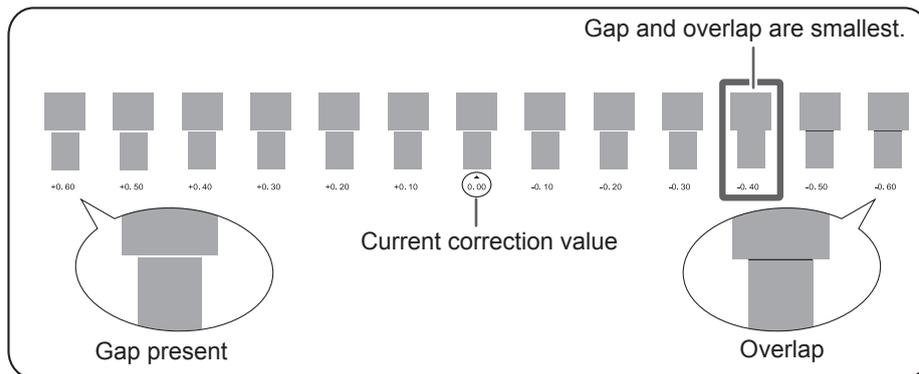
Alleviating Horizontal Bands and the Like (feed correction function)

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

Description

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

Default Setting

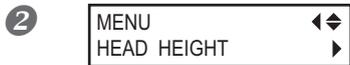
[SETTING]: 0.00%

4-3 Accommodating to the Types and Condition of Media

Use a thick media

Procedure

- 1 Press **MENU**.



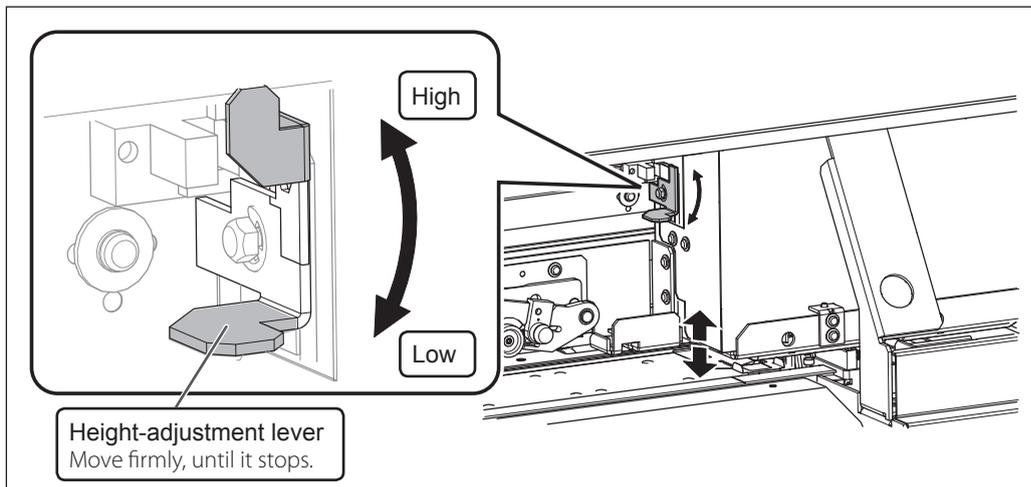
Press **▼** several times to display the left figure.
Press **▶**.



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

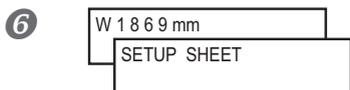
- 4 Move the height-adjustment lever to adjust the print-head height.

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



Close the front cover.

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



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

Description

Thick media easily touches the print heads. When the media has a thickness of 0.3 mm or more, set the [HEAD HEIGHT] to [HIGH].

When the print-head height is set to "HIGH", printing may be coarse and print quality may be affected. If this happens, refer to the pages indicated below.

- ☞ P. 81, "Correcting for Misalignment in Bidirectional Printing"
- ☞ P. 82, "Correcting for Misalignment in Bidirectional Printing More Precisely"
- ☞ P. 90, "Preventing Soiling of the Media and Dot Drop-out"

Using Transparent Media

1. Load transparent media to the printer.

☞ P. 32, "2-3 Loading Media"

2. Set the media type to "CLEAR."

1 Press **MENU**.



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



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



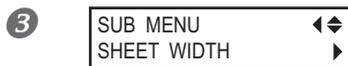
The settings are changed and the screen shown in the figure appears.

3. Set the media width.

1 Press **MENU**.



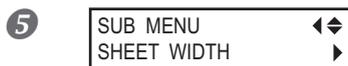
Press **▼** several times to display the left figure.
Press **▶**, and then **▼**.



Press **▶**.



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



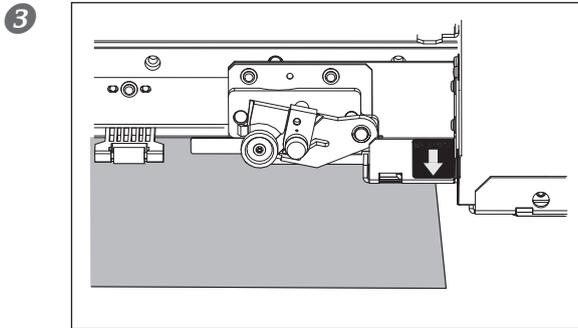
Press **◀** to return to the previous screen.

4. Set the position of the right edge of the media.

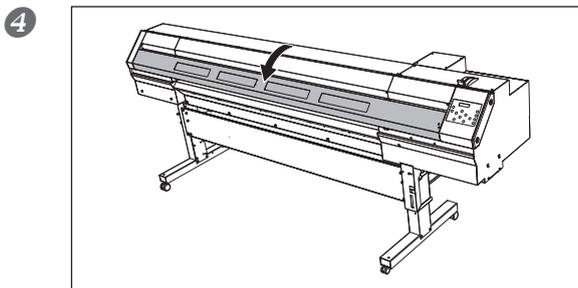


Press **▼** **▶** in this order to go back to the original screen.

2 Open the front cover.

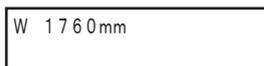


Press ◀ ▶ to move the point of the arrow to the right edge of the media, as shown in the figure on the left.



When the position has been set, close the front cover. Press ENTER to enable the setting.

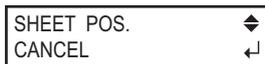
5 Press MENU ◀ in this order to go back to the original screen.
Press SET UP .



The top menu appears.

Description

The media width can be sensed automatically for opaque media, but not for transparent media. This means that the width and mounted location of the media must be set manually. Incorrect settings may cause ink to be applied at locations where no media is present.



To quit making settings at the [SHEET POS.] menu item, use ▼ to select "CANCEL," then close the front cover and press ENTER .

Note that to keep the heads from drying out, the [SHEET POS.] menu item ends automatically after a certain interval, even if you're still making settings there.

The settings for the media width and start position made here are effective only when [SHEET TYPE] is set to "CLEAR." Selecting "OPAQUE" disables the settings, although the setting values are saved in memory. Choosing "CLEAR" again enables the values set previously.

Default Setting

[SHEET TYPE]: OPAQUE
[SHEET WIDTH]: 1879 mm

Printing Hard-to-dry Media

Procedure

1 Press **MENU**.



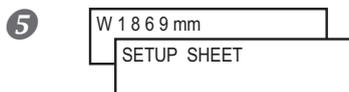
Press  several times to display the left figure.
Press .



Press  several times to display the left figure.
Press .



Press   to select a value.
Press .



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

Description

Larger values produce progressively slower movement of the media, enabling you to extend the drying time accordingly. Printing time takes correspondingly longer.

Default Setting

[SCAN INTERVAL]: OFF

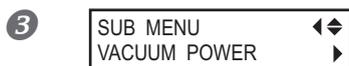
Using the Media Easy to be Winkled/Hard to be Fed

Procedure

1 Press **MENU**.



Press  several times to display the left figure.
Press .



Press  several times to display the left figure.
Press .

4



Press ▲ ▼ to select a value.
0 to 100%

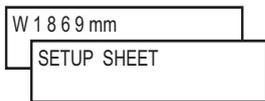
A larger value produces a larger suction force. For the media easy to be loose due to warping or wrinkling, increase of the suction force may help correct the problem. When the media is flimsy and cannot move smoothly, reduction of the suction force may correct such the problem.

AUTO

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

Press ENTER to enable the setting.

5



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

Description

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

Default Setting

[VACUUM POWER]: AUTO

Set the range of print heads movement during printing

Procedure

1 Press **MENU**.

2

MENU	◀▶
SUB MENU	▶

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

3

SUB MENU	◀▶
FULL WIDTH S	▶

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

4

FULL WIDTH S	◀▶
FULL ▶ OFF	↵

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

"SHEET" matches the range of print heads movement to the width of the media.

OFF

"OFF" matches the range of print heads movement to the printing data. Movement is limited to the minimum amount necessary, and this can be expected to yield the fastest printing. 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 **ENTER** to enable the setting.

5

W 1869 mm
SETUP SHEET

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

Default Setting

[FULL WIDTH S]: SHEET

Preventing Soiling of the Media and Dot Drop-out

Procedure

1 Press **MENU**.

2

MENU	◀▶
SUB MENU	▶

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

3

SUB MENU	◀▶
PERIODIC CL.	▶

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



Press to select an item.
PAGE

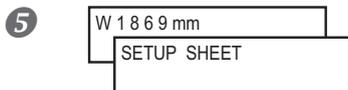
Automatic cleaning is performed every time before printing starts.
10 to 990 min

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

NONE

Automatic cleaning is not performed.

Press to enable the setting.



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

Description

In the following cases, Ink tends to collect on the surface of the print 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

Change the feed correction value during printing (to reduce horizontal bands)

Procedure

1 While printing is in progress, press .



Press .

The current correction value is displayed.



Press to set the correction value.



Press to enable the setting.

The changed correction value is saved and immediately applied to printing.

Description

If white or dark-colored stripes appear during printing, you can change the feed-correction value without stopping the printing operation in progress.

When you see white horizontal bands, set the value smaller than the current correction value. When you see dark horizontal bands, set the value larger than the current correction value.

You can change the correction value regardless of whether settings made on the machine or settings made on the computer take precedence.

A correction value set while printing is in progress is saved only as a setting on the machine.

Scale down/up the margins

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.
Press **ENTER**.



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

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 "5 mm", "10 mm", or "25 mm".

☞ P. 116, "Printing Area and Margins"

However, note that when the margin is set to "5 mm", printing may be performed on the media clamp.

Changing the setting while **SET UP** is lighted makes **SET UP** go dark. To start printing, press **SET UP** once more and redo the preparations for printing.

Default Setting

[SIDE MARGIN]: 10 mm

Chapter 5

To Administrators

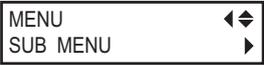
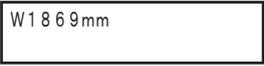
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5-1 Output Operation Management

Printing a System Report

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

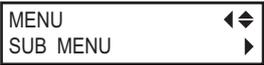
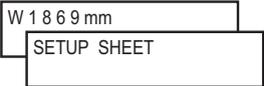
Procedure

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

Determining What Happens When Ink Runs Out

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

Procedure

- 1 Press **MENU**.
- 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.
Printing does not stop when an ink cartridge becomes empty. When an ink cartridge becomes empty, a warning beep sounds.
Press **ENTER** to enable the setting.
- 5  Press **MENU** **◀** in this order to go back to the original screen.

Description

When "STOP" is selected, printing pauses and so colors may be uneven. Ensure a sufficient amount of remaining ink before you begin printing.

When "CONT" is selected, printing does not stop even if ink runs out completely. To replace the cartridge, wait until printing ends or press **PAUSE** to pause printing.

Default Setting

[EMPTY MODE]: STOP

Displaying the Amount of Media Remaining

You can display how much of the media in use is left. First, you set the amount of media remaining, the amount remaining is displayed at the top menu until it reaches zero.

Procedure

1 Press **MENU**.

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

This display is updated.

 If setup has not been performed, the set value flashes.

Description

When the setup is canceled by removing the media etc., the amount of remaining media flashes.

Because the amount of media remaining is not updated automatically when you change the media, redo the setting whenever you change the media. You can also make the setting display this menu automatically whenever you change the media. See the next section, "Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed" Note: The remaining amount that is displayed is only an estimate, and its accuracy is not assured.

Making Sure to Verify the Setting for the Amount Remaining Every Time the Media Is Changed

Set to display  every time when a media is changed.

Procedure

1 Press .

2  Press  to display the left figure.
Press .
Press  twice.

3  Press .

4  Press   to select "ENABLE".
Press  to enable the setting.

If you set to "ENABLE," you must set the [SHEET TYPE] menu to "OPAQUE."
⇨ P. 86, "Using Transparent Media"

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

Description

Setting this menu to "ENABLE" can keep you from forgetting to redo the setting when you change the media. Be sure, however, also to set the [SHEET TYPE] menu (refer to P. 86, "Using Transparent Media") to "OPAQUE." When [SHEET TYPE] is set to "CLEAR," [SHEET REMAIN] is not displayed automatically.

Default Setting

[AUTO DISPLAY]: DISABLE

Printing the Amount of Remaining Media

This prints the amount of media remaining that is displayed at the top menu.

Procedure

- 1 Press **MENU**.
- 2

MENU	◀▶
SHEET REMAIN	▶

 Press **▲** to display the left figure.
Press **▶**.
- 3

SHEET REMAIN	◀▶
PRINT MEMO	↵

 Press **ENTER**.
Start printing.
- 4

W1869mm

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

Description

You use this when you want to make a record of the remaining length of the media now in use. Printing the amount of media remaining before you change the media enables you to refer to the printed record and use the value to make the setting for the remaining amount the next time you use the media. However, when subsequent printing is performed, the amount of remaining media will be printed on the printed portion. After printing the amount of remaining media, separate the media before performing the subsequent printing.

5-2 System control of this machine

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	↕
ENGLISH	↙

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

LENGTH UNIT	↕
mm	▶ INCH

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

TEMP. UNIT	↕
°C	▶ °F

 Press **▲** **▼** 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	◀▶
30 min	▶ 15 min

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

W 1 8 6 9 mm
SETUP SHEET

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

Default Setting

[INTERVAL]: 30min

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

3  Press **▼** several times to display the left figure.
Press **ENTER** to execute.

Viewing Information about the System of This Machine

Note: For information on how to set up a network, refer to "Setup Guide."

Procedure

1 Press **MENU**.



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

You can view the following information.

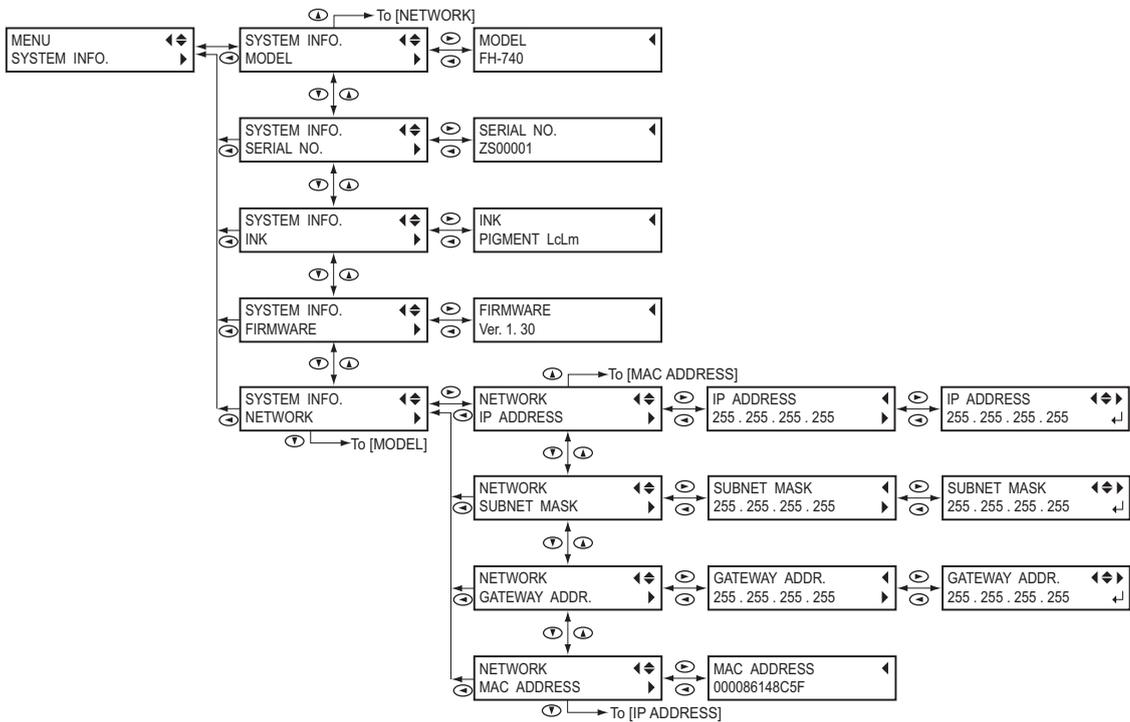
[MODEL]: Model name

[SERIAL NO.]: Serial number

[INK]: Ink type

[FIRMWARE]: Firmware version

[NETWORK]: Network configuration (IP address, etc)



Chapter 6

What to Do If

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6-1 The Machine Doesn't Run

The Printer Unit Doesn't Run

Is the power switched on?

Switch on the printer's main power, then press the sub power switch and make sure the sub power switch lights up.

☞ P. 31, "Switch On"

Is **SET UP** illuminated?

Printing is not performed when **SET UP** is not illuminated. Pull back the loading lever, close the front cover, and press **SET UP**.

☞ P. 44, "Getting Ready to Receive Data from a Computer"

Is the front cover open?

Close the front cover.

Is the top menu displayed?

Top menu



If the top menu isn't displayed, printing doesn't start even when data is sent from the computer. To go to the top menu, press **MENU**, then press **◀**.

☞ P. 44, "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 printing resumes.

☞ "P. 46, "Pause and cancel of printing"

Has ink run out?



Replace the ink cartridge of which the slot number flashes.

When the screen shown in the figure appears during printing, a warning beep sounds. Printing is paused concurrently. (Default setting) Printing will start after the ink cartridge is replaced with a new one.

☞ P. 51, "How to Replace Ink Cartridges"

☞ P. 94, "Determining What Happens When Ink Runs Out"

Is a message displayed on the screen?

- ☞ P. 112, "6-6 A Message Appears"
- ☞ P. 113, "6-7 An Error Message Appears"

Is the cable connected?

Connect the cable securely.

- ☞ "Setup Guide"

Is the Link LED lighted?

If the Link LED for the Ethernet connector is not lighted, it means that a correct connection to the network has not been made. Make sure the network routing is suitable. Try connecting the computer and the machine to the same hub, or connecting them directly using a crossover cable. If this makes it possible to perform printing, it means the problem is in the network itself.

Are the network settings correct?

If printing is not possible even though the Link LED is lighted, check to make sure the IP address and other such settings are correct. The settings on both the machine and the computer must be appropriate. Redo the settings, checking to ensure that the IP address doesn't conflict with the IP address for another device on the network, that the port setting for the software RIP specifies the IP address set on the machine, that the settings have no typing errors, and for other such problems.

- ☞ "Setup Guide,"
- ☞ P. 100, "Viewing Information about the System of This Machine"

Did the software RIP end abnormally?

Make sure the software RIP is running correctly, then switch the sub power switch off and back on.

Cannot cut off the media

Is the separating knife attached?

If the separating knife is not attached, you cannot cut off the media.

- ☞ "P. 74, "Replacing the Separating Knife"

6-2 Attractive Printing is Impossible

Printed Results Are Coarse or Contain Horizontal Stripes

Does the print heads 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. 42, "Printing Tests and Cleaning"
- ☞ P. 56, "3-3 When Normal Cleaning Is Not Effective"

Is the print-head height appropriate?

When the [HEAD HEIGHT] is set to [HIGH], printing becomes coarse compared to when the [HEAD HEIGHT] is set to [LOW]. Set the [HEAD HEIGHT] to [LOW] except when using a thick media.

- ☞ P. 85, "Use a thick media"

Have you carried out feed correction?

Large misalignment in the amount of feed of the media may result in printing that seems coarse or contains horizontal stripes. Either make the setting on the software RIP to match the type of media you're using, or make the setting for correction on the printer.

- ☞ P. 84, "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. 81, "Correcting for Misalignment in Bidirectional Printing"
- ☞ P. 82, "Correcting for Misalignment in Bidirectional Printing More Precisely"

Is the temperature of the room too low?

Use this machine in an environment having an ambient temperature of 15 to 32°C (59 to 90°F).

Is the printer installed in a level and stable location?

Never install the machine in a location where it is tilted or where it may wobble or experience vibration. Also make sure that the print heads are not exposed to moving air. These factors may lead to missing dots or reduced printing quality.

Is the 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. 109, "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. 78, "4-1 Fully Utilizing Preset Function"

Colors Are Unstable or Uneven

Did you shake the ink cartridges gently before in-stalling them?

Shake new cartridges gently before you install them.

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. 109, "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 heads 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. 90, "Set the range of print heads movement during printing"

☞ P. 90, "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. 78, "4-1 Fully Utilizing Preset Function"

The Media Becomes Soiled When Printed

Does the print heads contact the media?

The print-head height may be too low. Also, if the media is not loaded and set up correctly, it may wrinkle or come loose and strike the print heads.

- ☞ P. 85, "Use a thick media"
- ☞ P. 109, "Media Feed Is Not Smooth"

Is the print heads 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 heads manually. We recommend carrying out periodic head cleaning.

- ☞ P. 61, "3-4 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. 54, "Cleaning"

6-3 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 heads.

☞ P. 114, "[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. 109, "Media Feed Is Not Smooth"

Is the print-head height too low?

Try raising the print-head height higher. Media may inevitably warp or wrinkle slightly, so adjust the print-head height to take this into account.

☞ P. 85, "Use a thick media"

6-4 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 heads, 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. 32, "2-3 Loading Media"

Are the media clamps attached?

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

Is the temperature of room too low?

Use this machine in an environment having an ambient temperature of 15 to 32°C (59 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. 32, "2-3 Loading Media"

Media Feed Is Not Smooth

Do the media or the shafts strike some other object?

Make sure the media and the shafts do not touch anything else. This may affect output, even when feed appears to be smoothly.

☞ P. 32, "2-3 Loading Media"

Is the media too thick?

Media that is too thick may not only cause unstable feed, but may scrape the print heads, resulting in malfunction. Never use such media.

Are the grid rollers dirty?

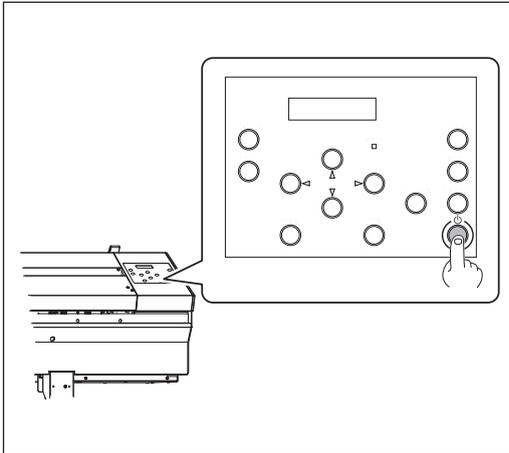
Check to make sure the grid rollers are free of buildup of foreign material such as media scraps.

☞ P. 54, "Cleaning"

6-5 The Print Heads Stopped Moving

If the print-head carriage stops over the platen, take action immediately to prevent the print 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 heads move to the standby position (the right side of the main unit), it means the operation has ended successfully.

If the print heads still do not move

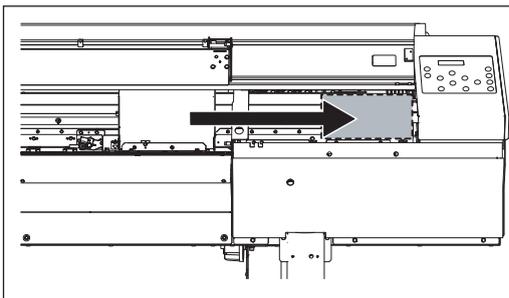
Try switching off the main power, then again switching on the main power, followed by the sub power.

If the Print Heads Still Do Not Move

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

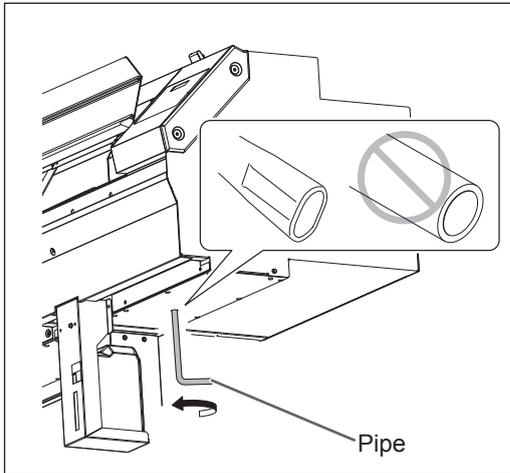
Procedure

- 1 Switch off the main power.
- 2 Open the front cover.
- 3



Move the print-head carriage gently manually up to above the cap unit.

4



Insert the pipe into the hole at the bottom of the machine and turn gently.

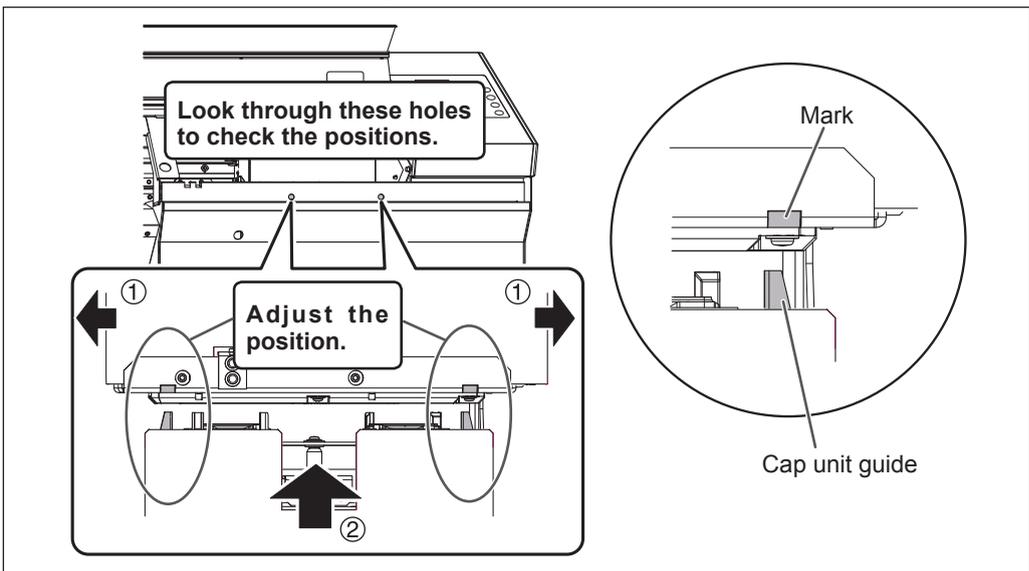
Be sure to insert the crushed tip (with oval shape) of the pipe.

The cap unit rises.

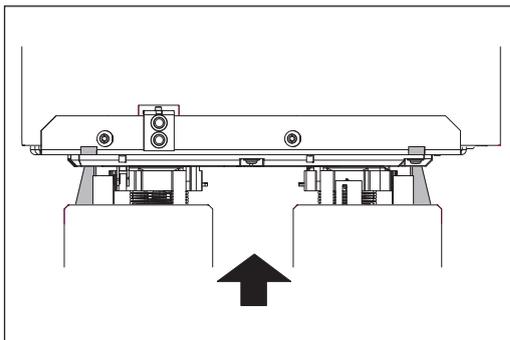
5

① Move the print-head carriage manually to align the mark with the cap unit guide.

② Turn the pipe further to bring the cap unit near the print heads.



6



When the print heads make contact with the cap unit, turn the pipe one or two turns more.

Make sure the print heads are capped tightly.

6-6 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.

[END OF THE SHEET]

The trailing edge of the media was detected during operation. Press any key on the operation panel to clear the message. Load new media.

[SHEET NOT LOADED PRESS SETUP KEY]

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 item and discard the discharged fluid in the bottle.

☞ P. 52, "Disposing of Discharged Ink"

[INSTALL DRAIN BOTTLE]

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

☞ P. 52, "Disposing of Discharged Ink"

[CLOSE FRONT COVER]

Close the front cover. For safety, the print-head carriage does not operate while a front cover is open.

[TIME FOR MAINTENANCE]

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

☞ P. 62, "Manual Cleaning of Print Heads"

[TIME FOR WIPER (FELT) REPLACE]

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

☞ P. 66, "Replacing the Wiper"

☞ P. 70, "Replacing the Felt Wiper"

6-7 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 .

[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 SET ERROR SET AGAIN]

 was pressed even though no media is loaded.

Press any key to clear the error. Load media and pull back the loading lever, then press  .

☞ P. 32, "2-3 Loading Media"

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

Press any key to clear the error. Set the [SHEET TYPE] menu item to "CLEAR," then reload the media.

☞ P. 86, "Using Transparent Media"

The loaded media is too small.

Press any key to clear the error. Replace with media of usable size.

Reflection tape is contaminated.

Reset the media after removing contamination on the reflection tape.

[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...]

Printing 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.

[PINCHROLL ERROR LOWER PINCHROLL]

SET UP was pressed without first lowering the pinch rollers.

Press any key to clear the error. Pull back the loading lever, then press **SET UP**.

The pinch rollers were raised while SET UP was illuminated.

The error is cleared automatically after a short wait. Never move the loading lever while printing is in progress.

[WRONG CARTRIDGE]

A ink cartridge that cannot be used was installed.

Remove the ink cartridge to clear the error. Use a ink cartridge of the specified type.

[AVOIDING DRY-UP TURN POWER OFF]

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

This warning indicates that the print-head height is too low for the media thickness specified on the computer. The print heads move to a location where you can operate the height-adjustment lever. Adjust to the displayed height, then press **ENTER**.

☞ P. 85, "Use a thick media"

[MOTOR ERROR TURN POWER OFF]

A motor error occurred.

Operation cannot be continued. Switch off the sub power. Next, eliminate the cause of the error, then immediately switch on the sub power. If the machine is allowed to stand with the error uncorrected, the print heads may dry out and become damaged.

This error may be caused by such factors as a mistake in loading the media, a media jam, or an operation that pulls the media with excessive force.

The media has jammed.

Carefully remove the jammed media. The print heads may also be damaged. Perform cleaning of the print head, then perform a printing test and check the results.

The media was pulled with excessive force.

Excessive tension was applied to the media, and additional action is necessary to recover from this state. First, move the loading lever to the rear and adjust the media to create a small amount of slack, then switch on the sub power..

[CANCELED FOR MOTOR PROTECTION]

Either of the following menu items is to be started in a row within 20 minutes:

- **PUMP UP**
- **HEAD WASH**

Press any key other than the sub power switch to cancel the error message. Allow the machine to stand for approximately 20 minutes before resuming operation. These menu items require the pump motor to turn for a long time. When performing these menu items in a row, take an interval of at least 20 minutes to prevent damage to the machine due to the overheating of pump motor.

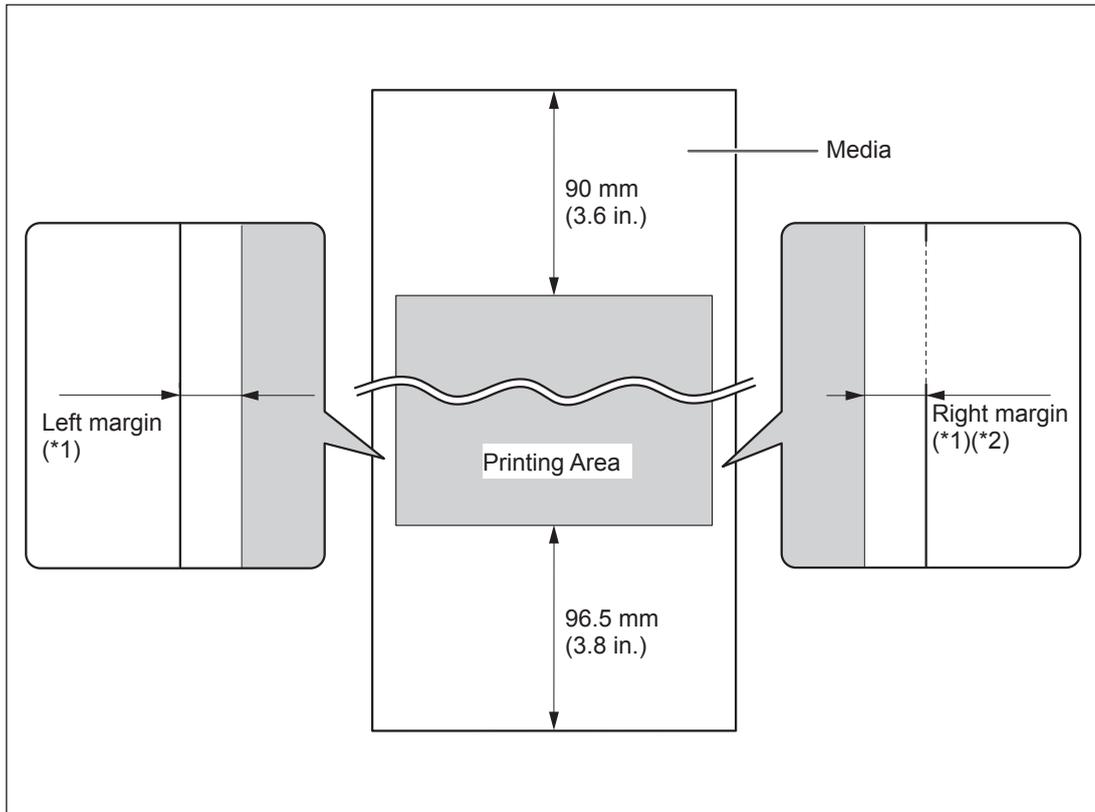
Chapter 7

Main Specifications

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7-1 Printing Area

Printing Area and Margins



(*1)

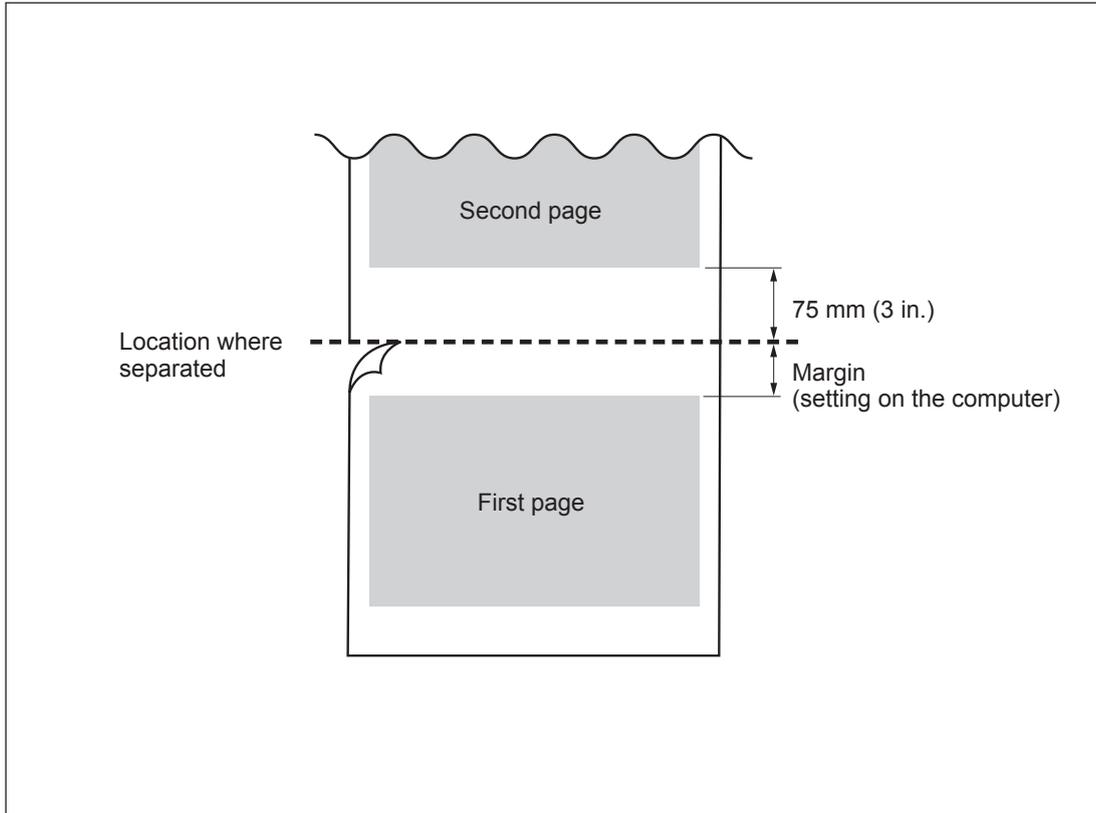
For left and right margins, the set value (25 mm, 10 mm, 5 mm, and default setting of 10 mm) in the [SIDE MARGIN] menu will be the margin.

(*2)

The amount of right margin can be changed by using **BASE POINT**.

Media-cutoff Location During Continuous Printing

When a media-cutoff command is sent from the computer, the cutoff location on the media is as shown in the figure below.



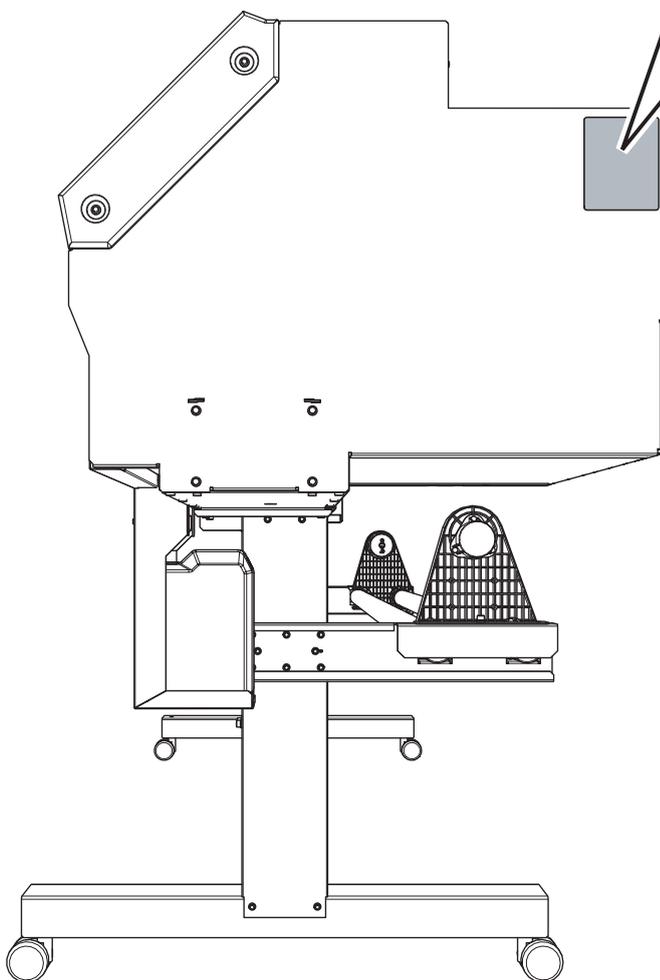
7-2 Locations of the Power Rating and Serial Number Labels

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.



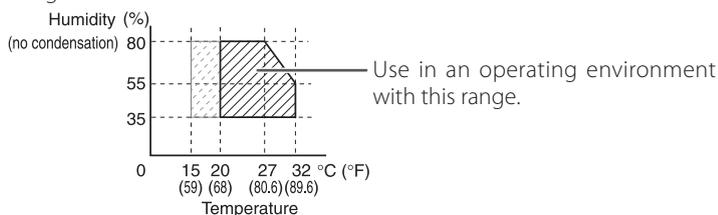
7-3 Specifications

		FH-740
Printing method		Piezo ink-jet method
Media	Width	210 to 1,879 mm (8.3 to 74 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	76.2 mm (3 in.) or 50.8 mm (2 in.)
Printing width (*1)		Max. 1,869 mm (73.5 in.)
Ink cartridges	Types	Dedicated pigment ink 220-cc cartridge
	Colors	Four colors (cyan, magenta, yellow, and black) or, Six colors (cyan, magenta, yellow, black, light cyan, light magenta) or, Eight colors (cyan, magenta, yellow, black, light cyan, light magenta, orange, green)
Printing resolution		Maximum 1,440 dpi
Distance accuracy (*2)		Error of less than $\pm 0.3\%$ of distance traveled, or ± 0.3 mm, whichever is greater
Interface		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving function		Automatic sleep feature
Power requirements		AC 100 to 120 V $\pm 10\%$, 2.0 A, 50/60 Hz or AC 220 to 240 V $\pm 10\%$, 0.9 A, 50/60 Hz
Power consumption	During operation	Approx. 180 W
	During standby	Approx. 44 W
Acoustic noise level	During operation	64 dB (A) or less
	During standby	40 dB (A) or less
Dimensions (with stand)		3,169 (W) x 845 (D) x 1,260 (H) mm (124.8 (W) x 33.3 (D) x 49.7 (H) in.)
Weight (with stand)		210 kg (463 lb.)
Environment	Power on (*3)	Temperature: 15 to 32°C (59 to 90°F) (20°C [68°F] or more recommended), humidity: 35 to 80%RH (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (no condensation)
Accessories		Exclusive stands, power cord, media holder, replacement blade for separating knife, and User's Manual, etc.

*1 The length of printing is subject to the limitations of the program.

- *2
- Media type: Media specified by Roland DG Corp.
 - Temperature: 25°C (77°F), humidity: 50%RH
 - Roll media must be loaded correctly.
 - Excluding expansion/contraction of the media
 - All correction or adjustment function of this machine has been made properly.
 - When printing by 1 meter

*3
Operating environment



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，不会对人体、财产造成严重的不良影响。

环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。

For EU Countries



This product must be disposed of separately at your local waste recycling center. Do not dispose of in household waste bin.



Lever dit product in bij een lokaal afvalverzamelpunt. NIET met normaal huishoudelijk afval afvoeren.



Bitte führen Sie dieses Produkt separat Ihrer örtlichen Entsorgungsstelle zu. Bitte nicht mit dem normalen Hausmüll entsorgen.



Dette Produkt skal smides særskilt væk på den lokale affalds- og genbrugsstation. Må ikke smides ud sammen med almindeligt husholdningsaffald.



Ne jetez pas le produit avec vos ordures ménagères. Portez-le dans un centre recyclage des déchets.



Tätä tuotetta ei saa hävittää normaalien talousjätteiden mukana, vaan se on toimitettava ongelmajätteiden keräilypisteeseen hävitettäväksi.



Questo prodotto deve essere smaltito negli appositi contenitori per la raccolta differenziata, non buttare nel cestino dei rifiuti casalinghi.



Produkten måste kasseras separat på din lokala återvinningscentral. Släng inte produkten tillsammans med hushållssoporna.



Este producto debe devolverse al centro de reciclaje más cercano a su domicilio para su correcta eliminación. No lo tire a la basura.



Μην πετάξετε το αντικείμενο αυτό στο καλάθι των απορριμμάτων. Αφαιρέστε τις μπαταρίες και προσκομίστε το στο τοπικό κέντρο ανακύκλωσης.



Deite fora separadamente este produto no seu centro de reciclagem local. Não o deite fora no seu caixote do lixo.

 **Roland**



R5-130325