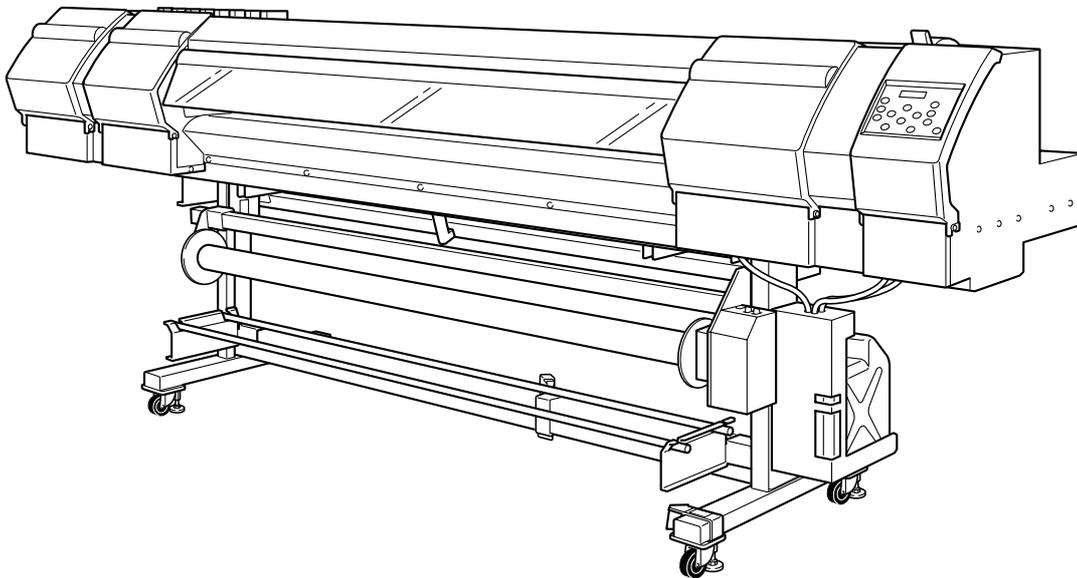


Hi-Fi EXPRESS

FP-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 operation manual and the specifications of this product are subject to change without notice.
 - The operation manual and the product have been prepared and tested as much as possible. If you find any misprint or error, please inform us.
 - Roland DG Corp. assumes no responsibility for any direct or indirect loss or damage which may occur through use of this product, regardless of any failure to perform on the part of this product.
 - Roland DG Corp. assumes no responsibility for any direct or indirect loss or damage which may occur with respect to any article made using this product.
-

For the USA

**FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE
STATEMENT**

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.

NOTICE

Grounding Instructions

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

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

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

Repair or replace damaged or worn out cord immediately.

For Canada

CLASS A NOTICE

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

CLASSE A AVIS

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



ROLAND DG CORPORATION

1-6-4 Shinmiyakoda, Hamamatsu-shi, Shizuoka-ken, JAPAN 431-2103

MODEL NAME : See the MODEL given on the rating plate.

RELEVANT DIRECTIVE : EC LOW VOLTAGE DIRECTIVE (73/23/EEC)

EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (89/336/EEC)

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.

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<http://www.rolanddg.com/>



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. * 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**

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

 **Never 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, AC adapter, 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.

 **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.

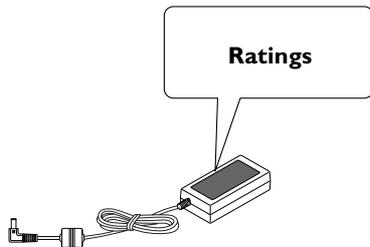
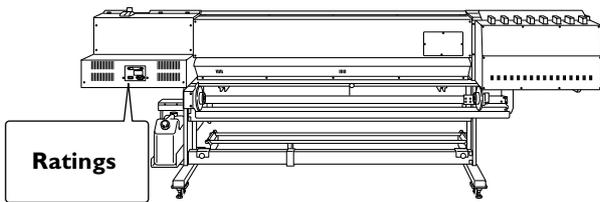
 **Never climb or lean on the machine.**
The machine is not made to support a person. Climbing or leaning on the machine may dislodge components and cause a slip or fall, resulting in injury.

 **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.

 **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.

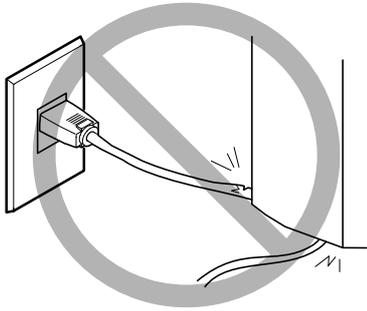


-  **Never use out of doors or in any location where exposure to water or high humidity may occur. Never touch with wet hands.**
Doing so may result in fire or electrical shock.
-  **Never allow any foreign object to get inside. Never expose to liquid spills.**
Inserting objects such as coins or matches 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.
-  **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.

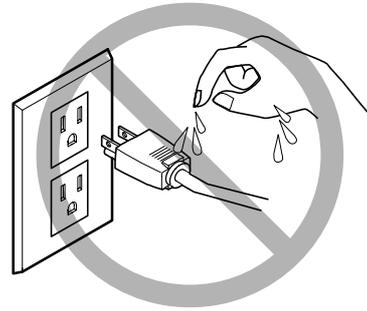
 **WARNING**

-  **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.
-  **When the machine will be out of use for a prolonged period, disconnect the power cord.**
This can prevent accidents in the event of current leakage or unintended startup.

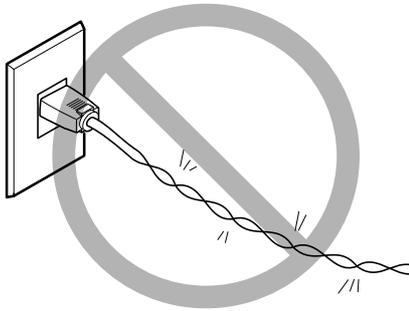
⚠ Important notes about the power cord, plug, and electrical outlet



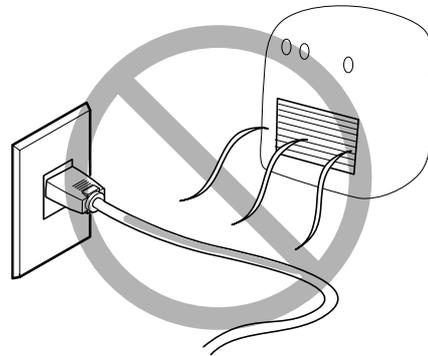
Never place any object on top or subject to damage.



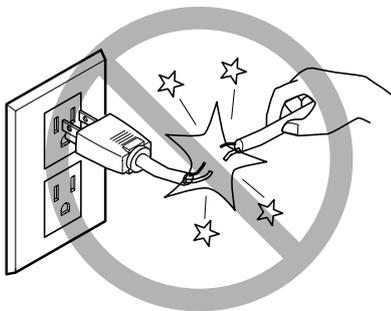
Never allow to get wet.



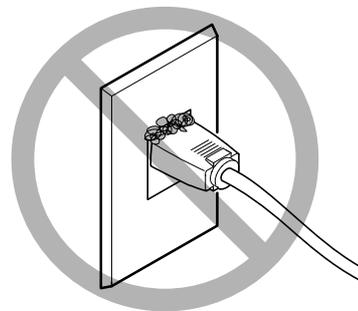
Never bend or twist with undue force.



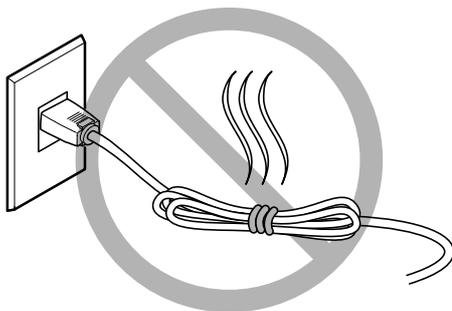
Never make hot.



Never pull with undue force.



Dust may cause fire.



Never bundle, bind, or roll up.

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

 **CAUTION**



Never drink or sniff ink, cleaning fluid, or discharged fluid, or allow them to come in contact with the eyes or skin.

Doing so may be hazardous to the health.



Never allow an ink cartridge to be subjected to impact, and never attempt to disassemble.

Ink may leak.



Install in a location that can be ventilated.

Odor from ink and the like may cause physical distress.

 **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 300 kg (662 lb.).**

WARNING

 **Entrust operations such as transportation, unloading, and emplacement to trained workers.**

Handling requires special equipment and training. Performing operations in an unreasonable manner may result in a major accident.

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

The total weight of the machine may reach 300 kg (662 lb.) or more. Installation in an unsuitable location may cause a major accident, including tipover, fall, or collapse.

 **Be sure to anchor the stand to the floor.**
If the machine should begin to topple, a major accident may result, including crushing of the appendages or the body.

CAUTION

 **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.

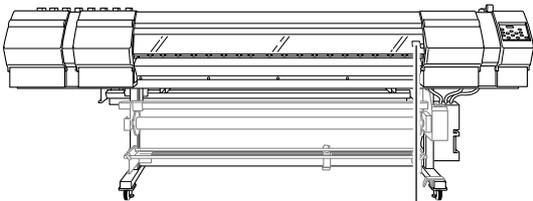
 **When storing roll media, implement adequate safety measures to ensure that the stored media will not roll, fall, or topple over.**

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

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 cover move at high speed and pose a hazard. Never insert the hand or fingers into the gap.



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 \triangle 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 \otimes 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 \bullet 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

 **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 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, adaptateur CA, câble d'alimentation et autres articles semblables), compatibles avec l'appareil.**
Les articles incompatibles risquent de causer des accidents.

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

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

PRUDENCE

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

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

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

 **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.

 **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.

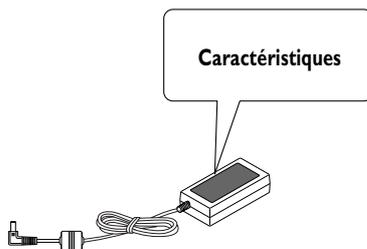
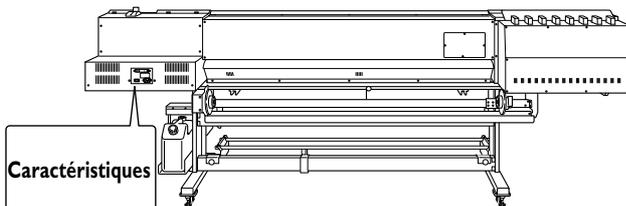
⚠ Risque de décharge ou de choc électrique, d'électrocution ou d'incendie

⚠ 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.



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.



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.

⚠ ATTENTION



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

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



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

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



Mise à la terre.

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



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

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



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.

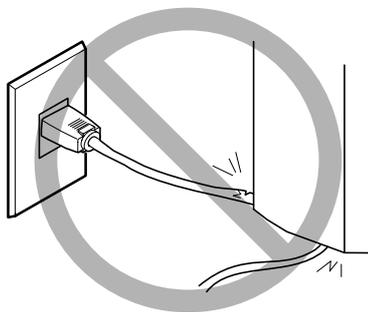
Continuer à utiliser l'appareil peut causer un incendie, un choc électrique ou des blessures. Communiquer avec le représentant Roland DG Corp. Autorisé.



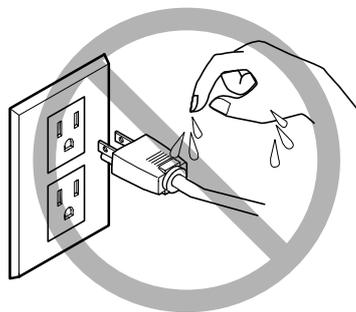
Si l'appareil doit rester inutilisé pendant une longue période, débrancher le câble d'alimentation.

Cela peut prévenir les accidents en cas de fuite de courant ou de démarrage accidentel.

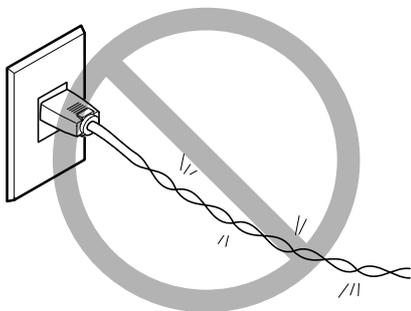
⚠ Remarques importantes à propos du câble d'alimentation, de la fiche et de la prise électrique



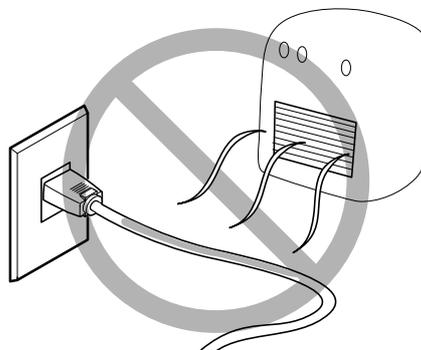
Ne jamais déposer aucun objet sur le câble, sur la fiche ou sur la prise car cela risque de les endommager.



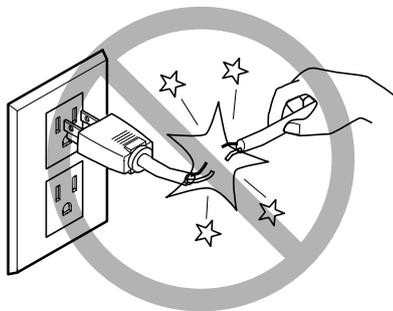
Ne jamais laisser l'eau toucher le câble, la fiche ou la prise.



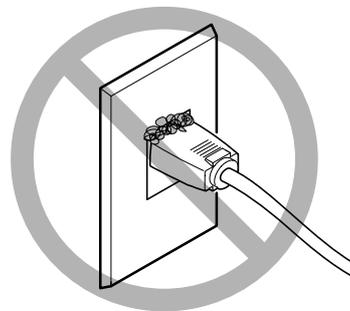
Ne jamais plier ni tordre le câble avec une force excessive.



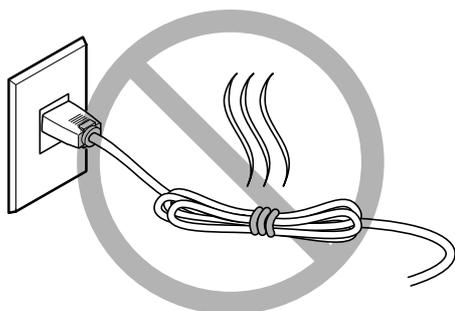
Ne jamais chauffer le câble, la fiche ou la prise.



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



La poussière peut causer un incendie.



Ne jamais plier ni enrouler le câble.

 **L'encre, les liquides nettoyants et les liquides usés sont toxiques**

 **PRUDENCE**

 **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.

 **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.

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

L'absence d'aération adéquate peut créer une situation dangereuse pour la santé.

 **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 300 kg (662 lb.)**

ATTENTION

 **Confier les opérations comme le transport, le déchargement et la mise en place à des travailleurs qui ont reçu la formation requise.**

La manutention exige de la formation et de l'équipement spécialisés. Tenter de procéder à ces opérations de manière intempestive peut provoquer un accident grave.

 **Installer l'appareil à un endroit stable et plat et capable de supporter son poids.**

Le poids total de l'appareil peut être d'au moins 300 kg (662 lb.). Installer l'appareil à un endroit inapproprié peut provoquer un accident grave comme le renversement, la chute ou l'écrasement.

 **S'assurer d'ancrer la base de l'appareil au sol.**

Si l'appareil devait commencer à basculer, il s'ensuivrait un accident grave, par exemple l'écrasement de membres ou du corps.

PRUDENCE

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

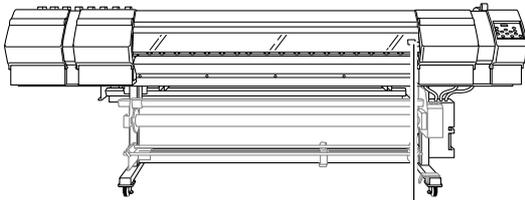
Tenter de soulever des objets trop lourds peut causer des blessures.

 **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.

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

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 these 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.

When Moving the Machine

- Special preparations are required when moving the machine. Please check with your authorized Roland DG Corp. dealer or Roland DG Corp. service center ahead of time.

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

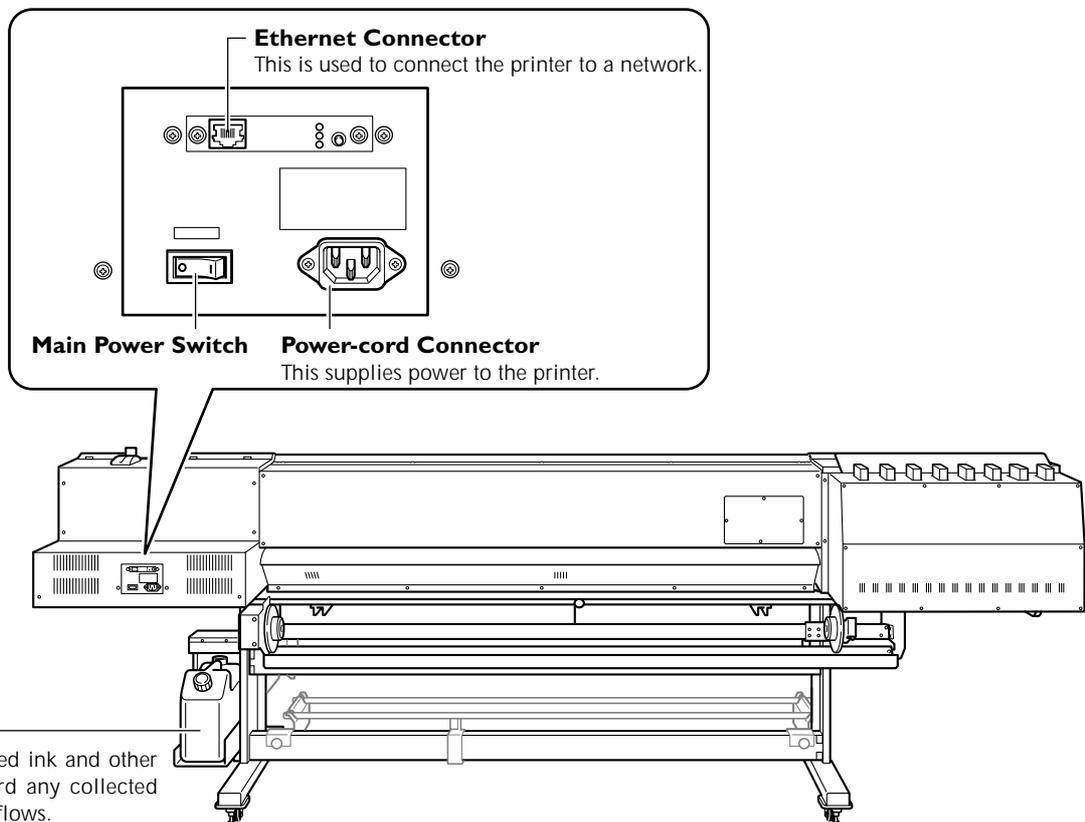
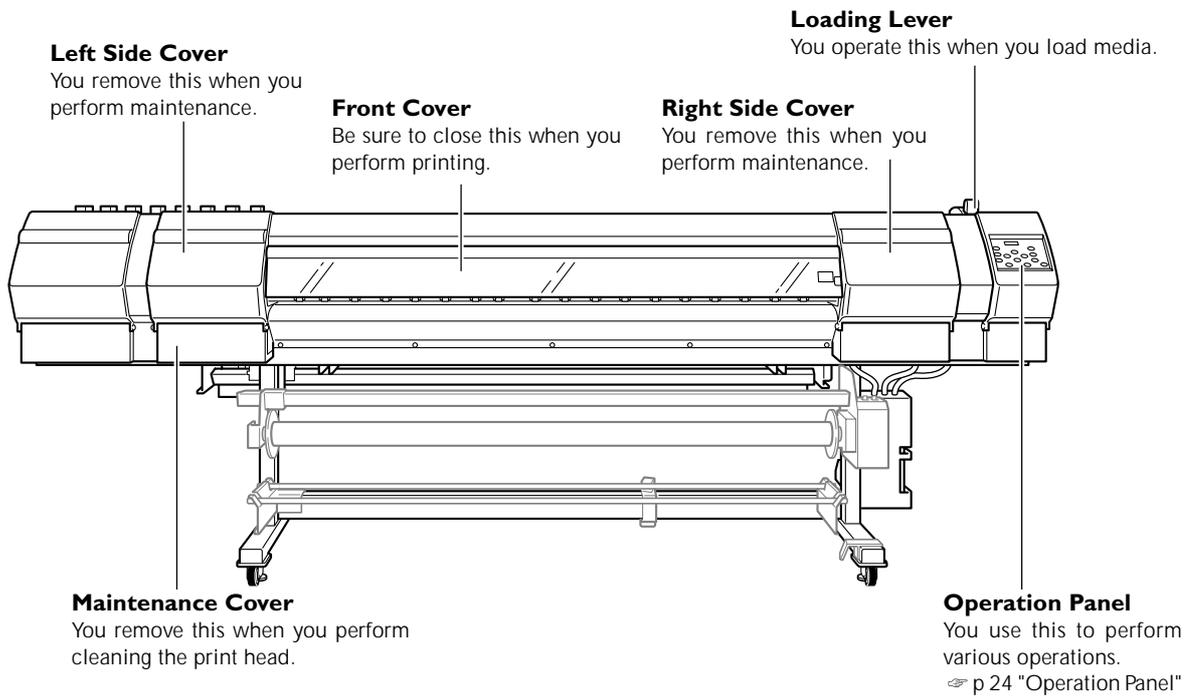
- Store unopened in a well-ventilated location at a temperature of -20 to 40°C (-4 to 104°F).

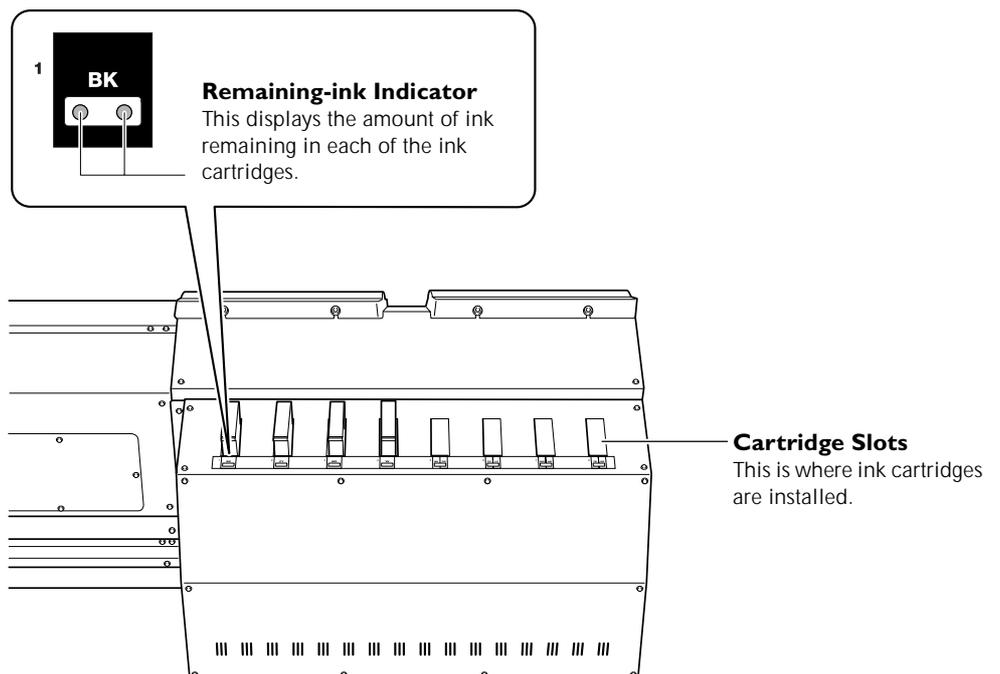
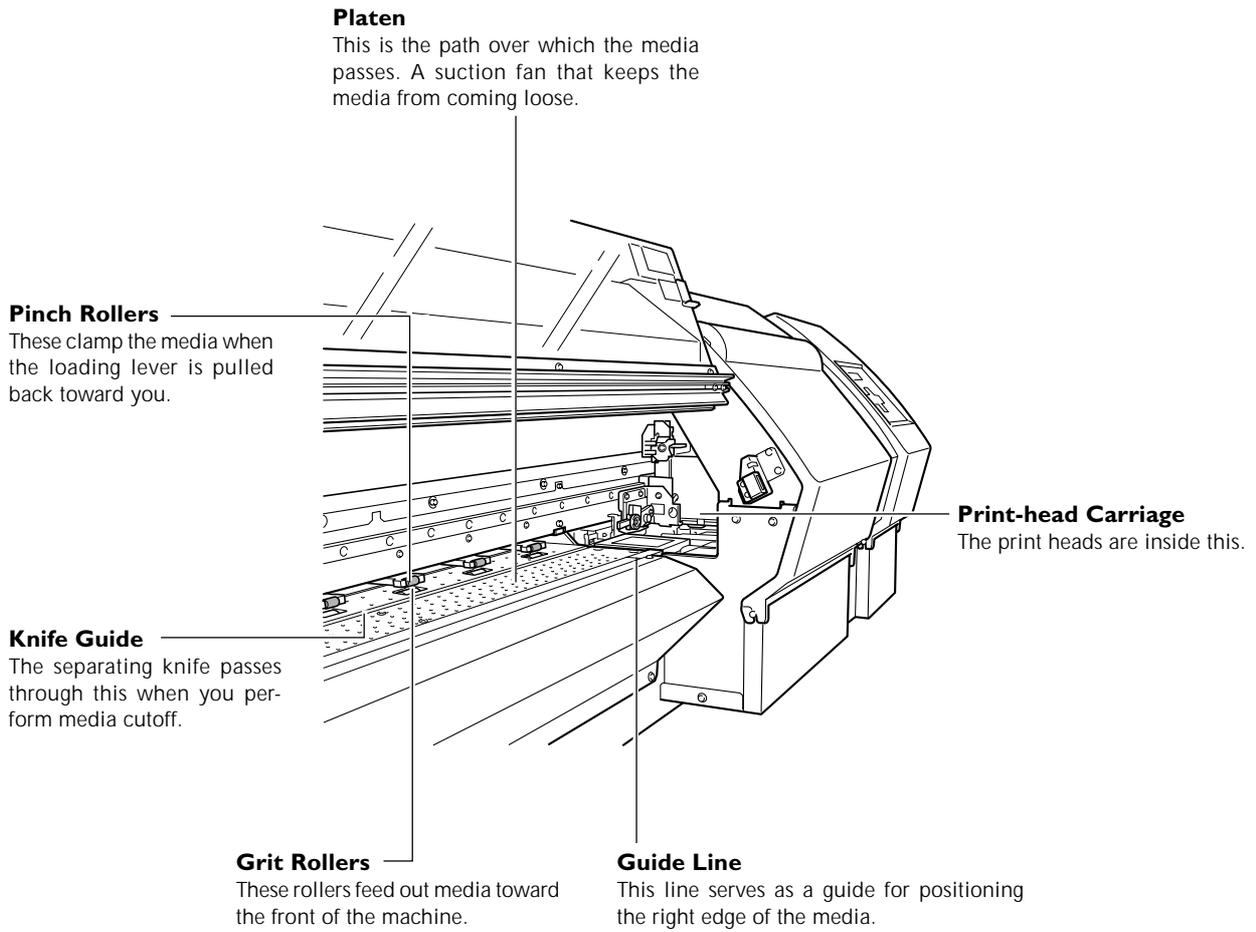
Chapter 1

Introduction

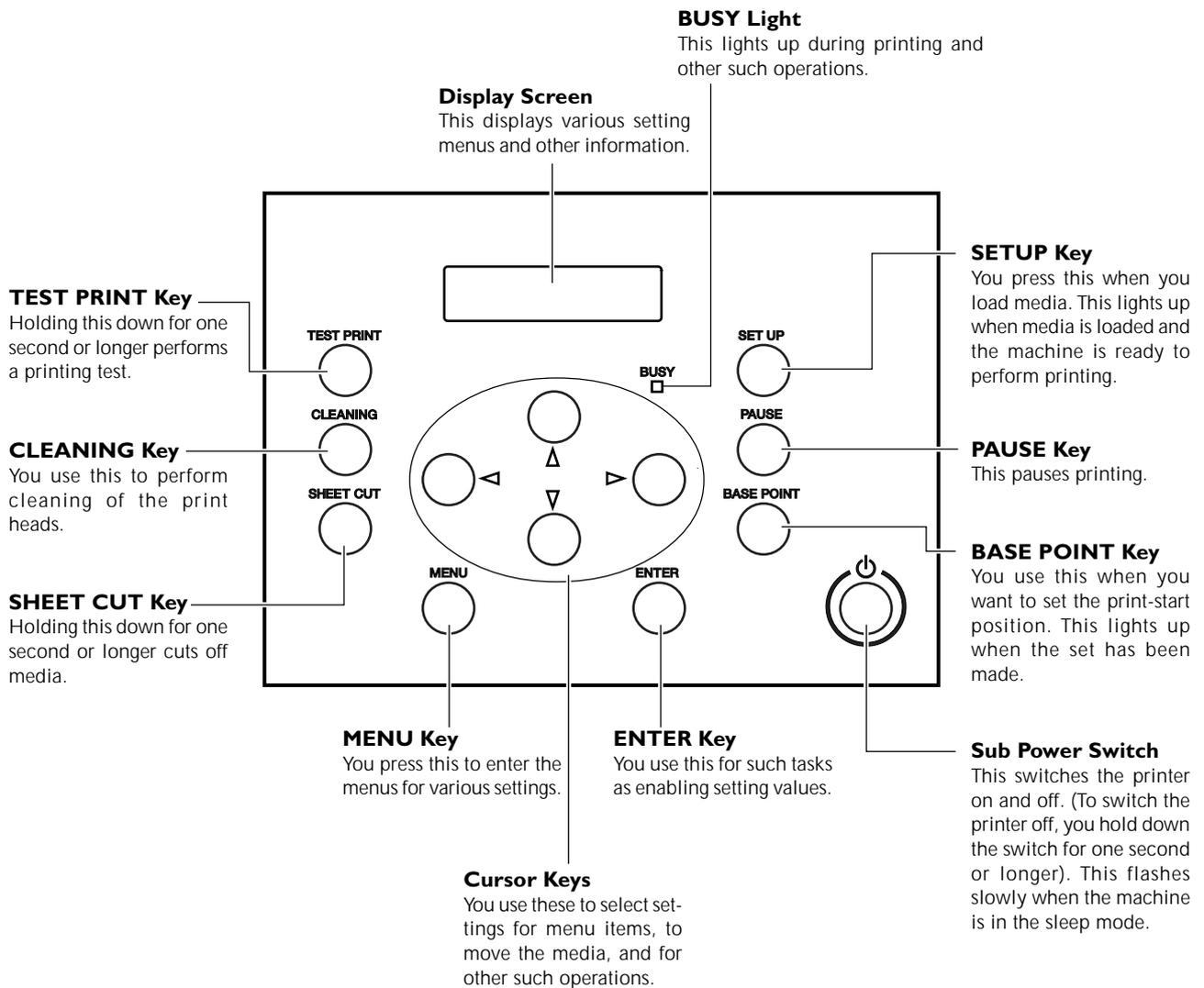
I-I Part Names and Functions

Printer Unit





Operation Panel

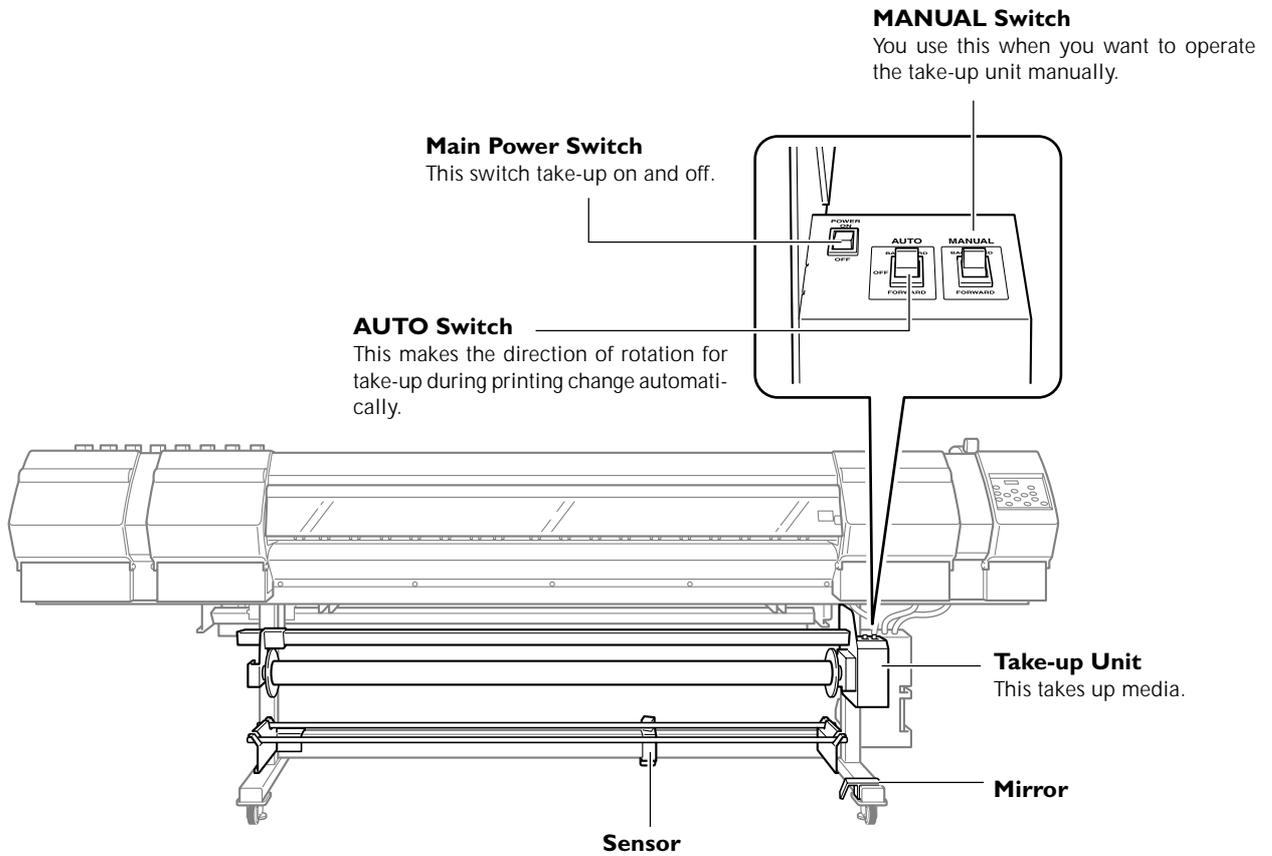


Panel Notation

In this document, the keys and lights on the control 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

Media Take-up System



Chapter 2

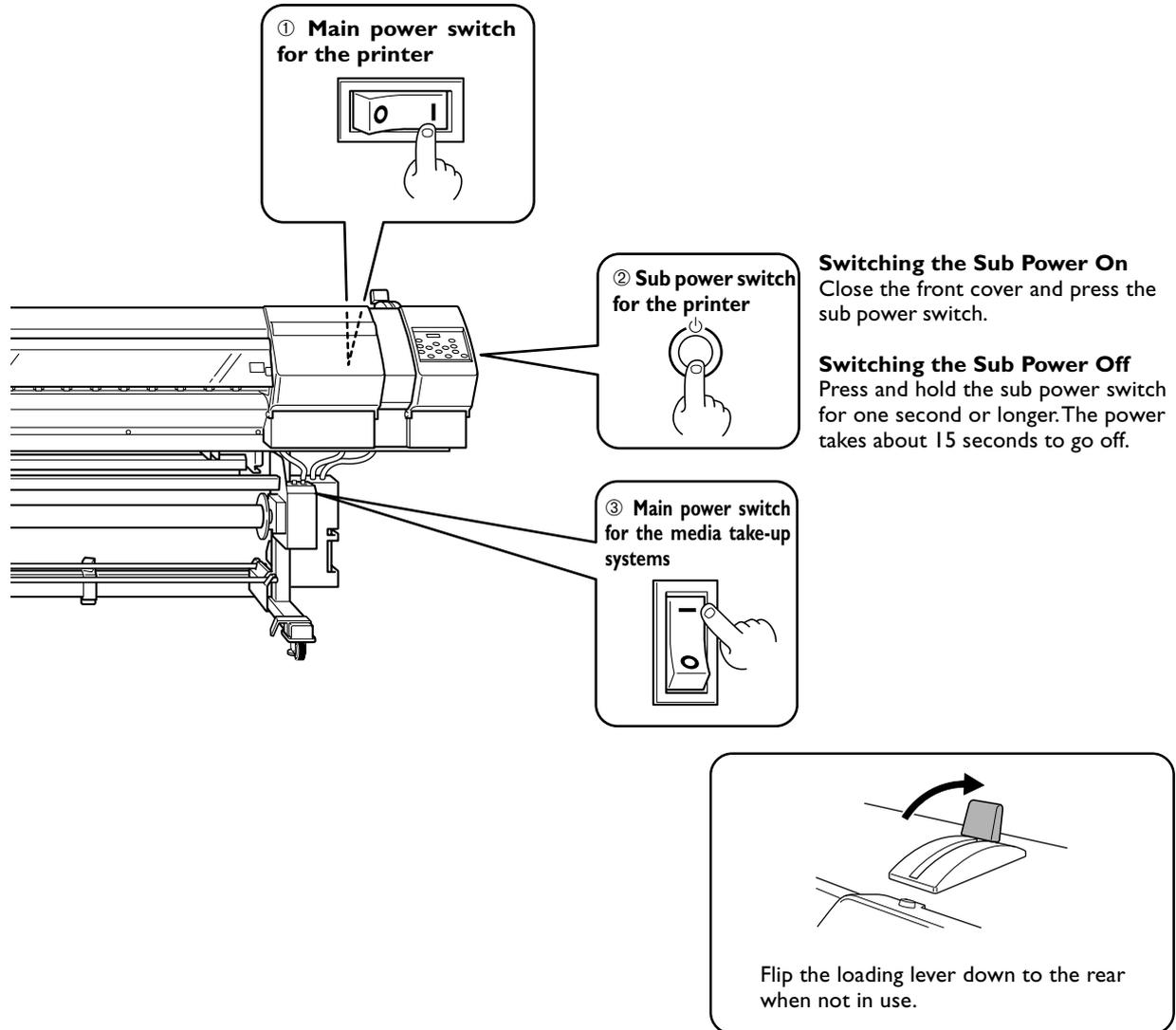
Operation

2-1 Switching the Power On and Off

Switching the Power On and Off

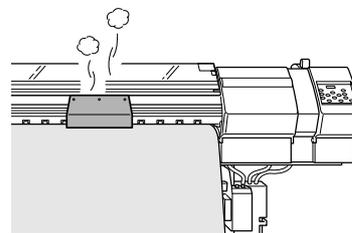
This machine has three power switches. You switch on all three when using the machine.

Whenever printing or cutting is finished, you turn off switches 2 and 3 as required. You also flip down the loading lever to the rear of the machine.



Important Note on Switching Off the Power

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



The Power-saving Feature

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.

You can change the setting for the time of the shift to the sleep mode. You can also switch off the power-saving feature.

☞ p 86 "Setting the Interval until Activation of the Sleep Mode," p 86 "Deactivating the Sleep Mode"

When the machine is in the sleep mode, the POWER light flashes slowly. Using the control panel or performing operations such as sending printing data from the computer (when media is loaded) restore the machine to its normal mode.

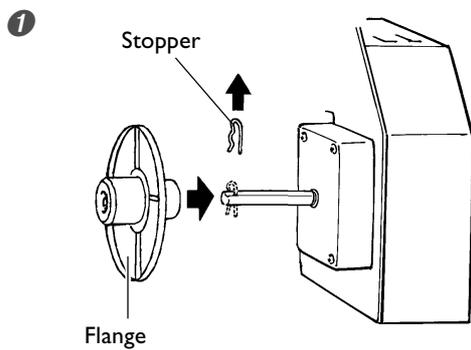
To reduce power consumption, we recommend leaving the power-saving feature on and setting the activation time for the sleep mode to 30 minutes or less.

2-2 Loading and Removing Media

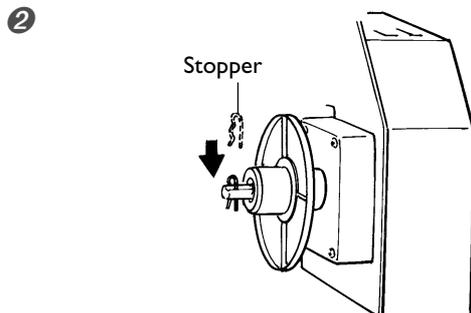
How to Load Media

- ⚠ CAUTION** Load roll media correctly. Otherwise the media may fall and cause injury.
- ⚠ CAUTION** Roll media weighs about 20 kg (44 lb.). To avoid injury, handle with care.
- ⚠ CAUTION** Never load media that weights more than 20 kg (44 lb.). The machine may fail to withstand the weight and tip over or cause the media to fall.

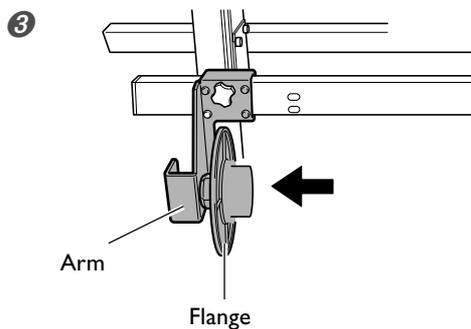
1. Mounting the paper tube of take-up unit.



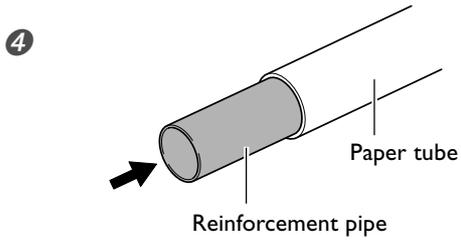
Pull out the stopper.
Align the flange with the groove on the shaft, and press in all the way.



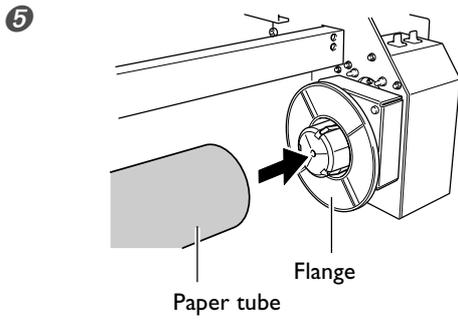
Insert the stopper.



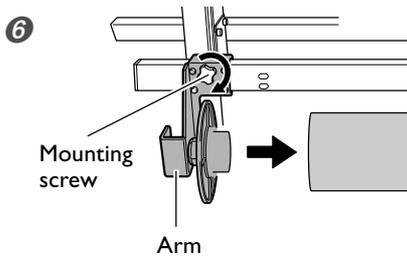
Follow steps 1 and 2 to mount the flange for the arm as well.



Insert the reinforcement pipe into the paper tube.



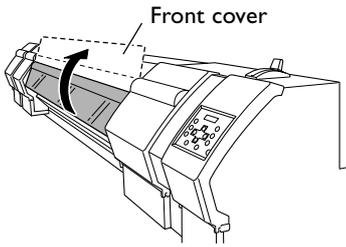
Mount the paper tube to flange.



Move the arm to match the length of the paper tube.
Tighten the mounting screw securely.

2. Load the media onto the roll shaft.

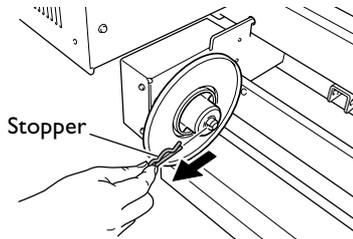
1



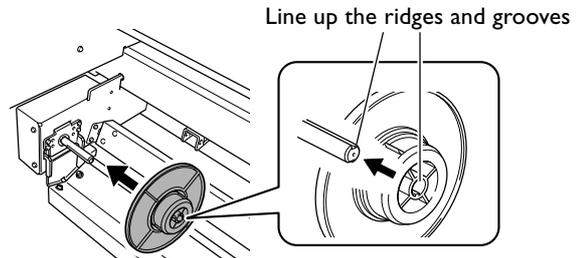
Open the front cover.

2 Line up with the core diameter of the loaded roll media and refit the left- and right-hand media flanges.

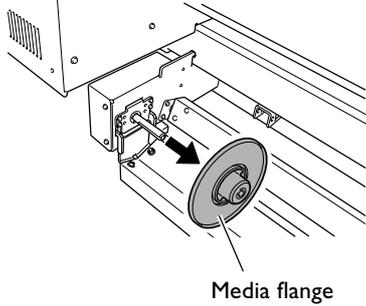
1 Remove the stopper.



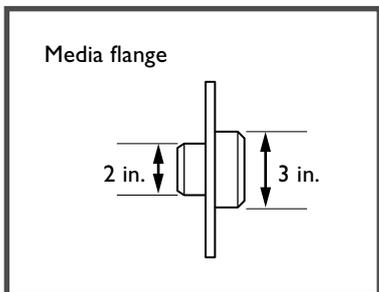
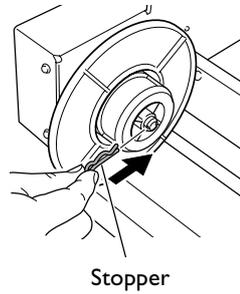
3 Line up the ridges and grooves.

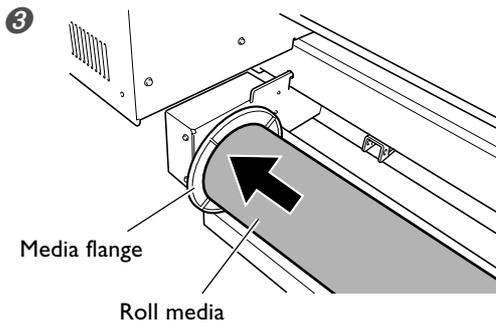


2 Remove the media flange.

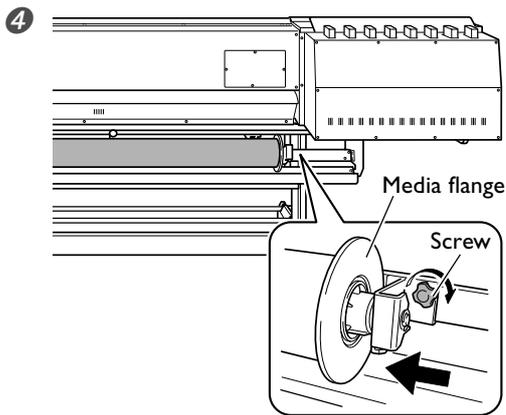


4 Attach the stopper.





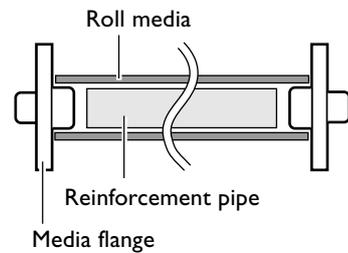
Fit the roll media onto the media flange that is on the left side when viewed from the back.
Press in all the way.



Move the media flange on the right side (as seen from the back) sideways and fit it into the roll media.

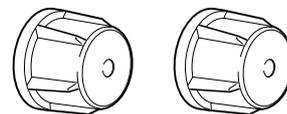
Reinforcement pipe

When roll media sag severely, use the reinforcement pipe inserted into the roll media. After use, remove the reinforcement pipe from the paper tube.



End caps

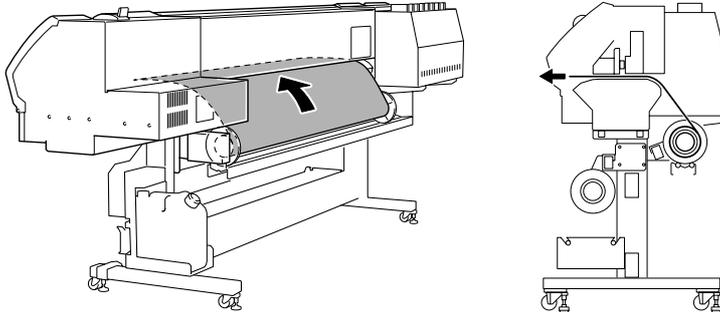
If the left or right edges of the media strike the media flanges with force, affecting media feed, then use the end caps instead of the media flanges.



End caps

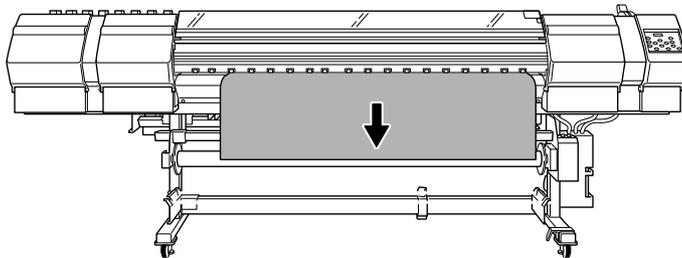
3. Fasten the media to the paper tube.

1 Pass the media between the pinch rollers and the grit rollers.

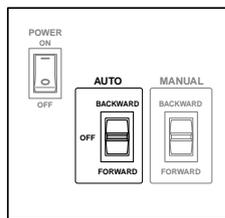


2 Pull the media to a position next to the paper tube.

Hold the media at the center and slowly pull it out, being sure to keep it straight.



3

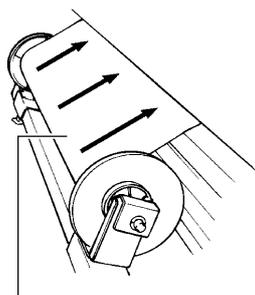


Set the AUTO switch off.

Loading the media

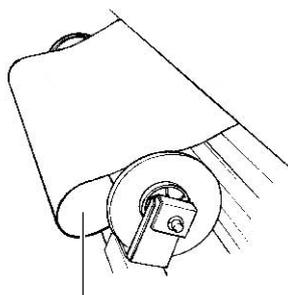
Load the media straight. Correct take-up is difficult if the fed-out media becomes slack or crooked.

Correct

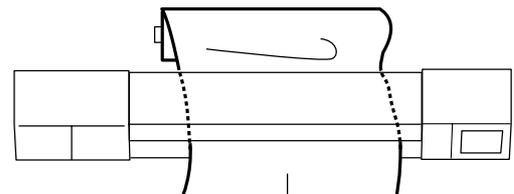


Entire media stretched taut

Incorrect



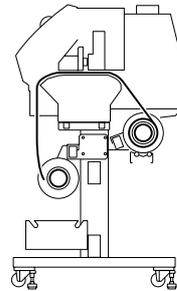
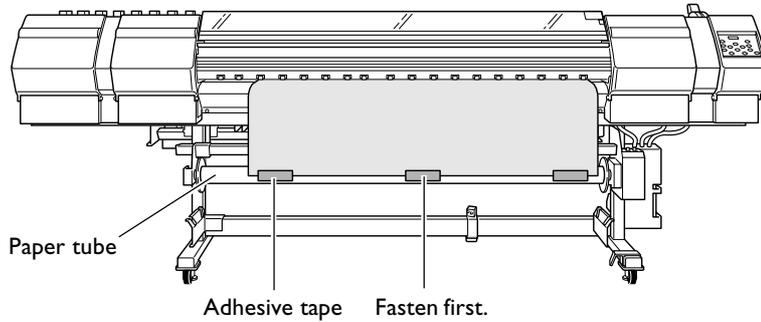
Media is slack



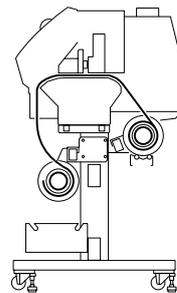
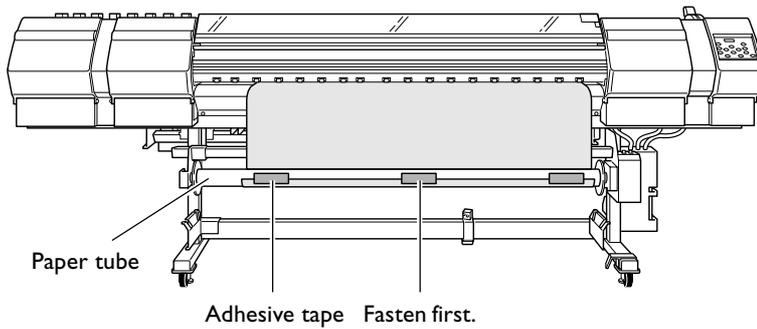
Media is crooked

- ④ Use adhesive tape to fasten the media securely to the paper tube.
 To prevent the pulled-out media from becoming crooked, secure with tape at the two edges and center.
 First fasten the center in place, then fasten the edges.

Take-up with outward curl



Take-up with inward curl



- ⑤
-
- Loading lever

Pull back the loading lever to secure the media in place.

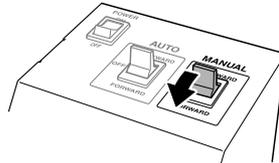
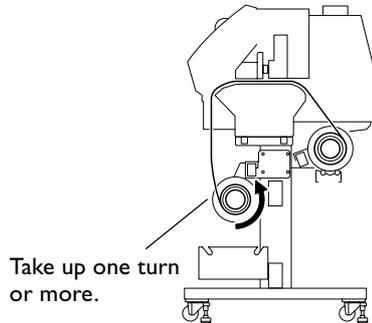
- ⑥
-

Press  to pull out the media.
 Ensure a certain amount of slack, as shown in the figure.

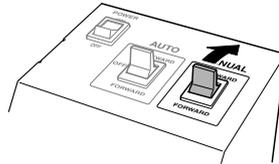
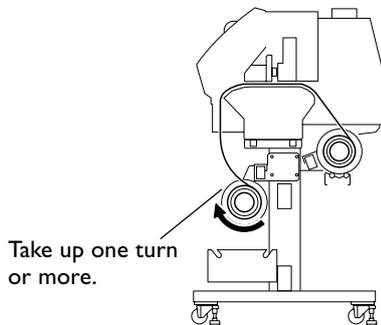
2-2 Loading and Removing Media

- 7 Operate the MANUAL switch to take up the media.
Take up the media for one turn or more.

Take-up with outward curl

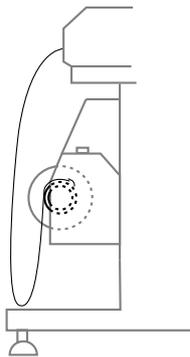


Take-up with inward curl



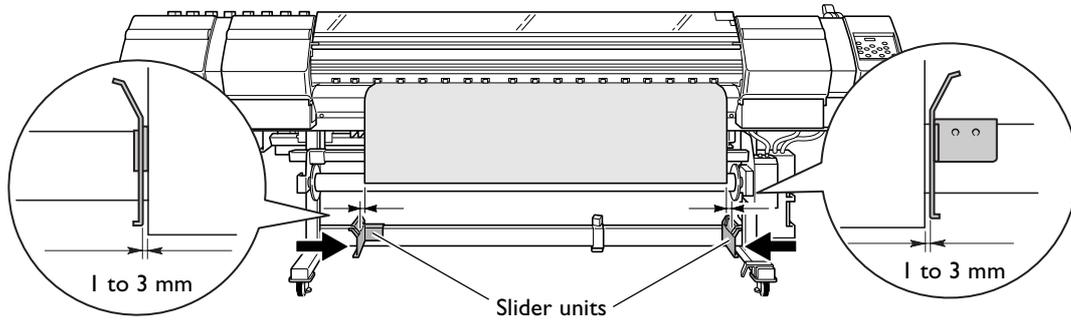
4. Adjust the take-up unit to match the width of the media.

1

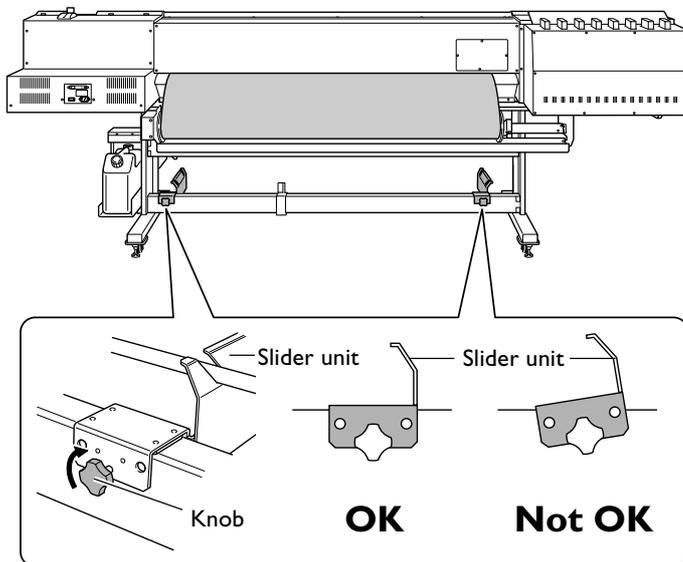


Press  to pull out the media.
Ensure a certain amount of slack, as shown in the figure.

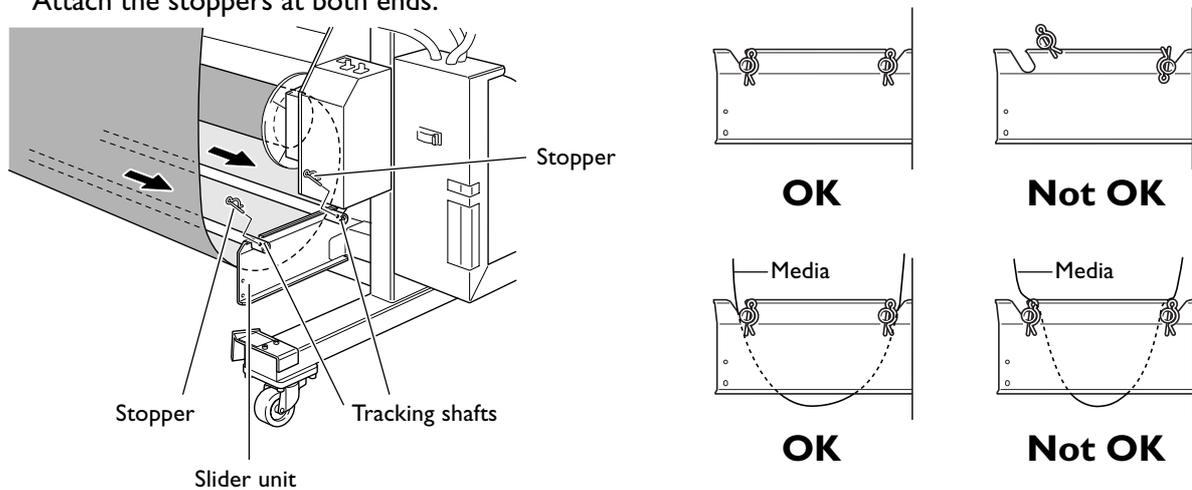
- ② Adjust the positioning of the slider unit to match the width of the media.
Adjust so that the gap between the media and the slider unit is 1 to 3 millimeters.



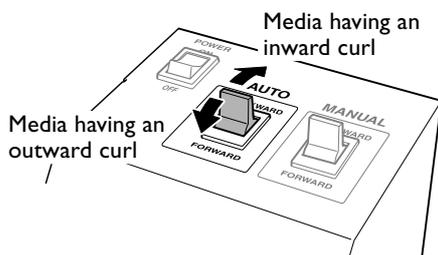
- ③ Tighten the knobs at the back.
Make sure the slider units do not become tilted as you do this.



- ④ Pass the tracking shafts through the looped media and fit them into the grooves of the slider unit (right and left).
Attach the stoppers at both ends.



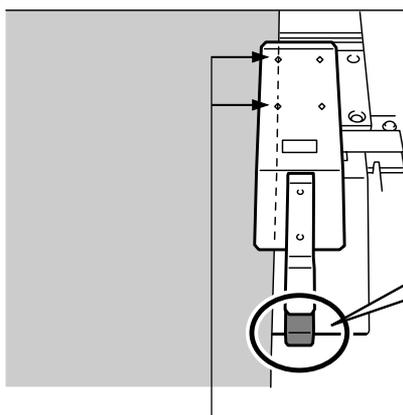
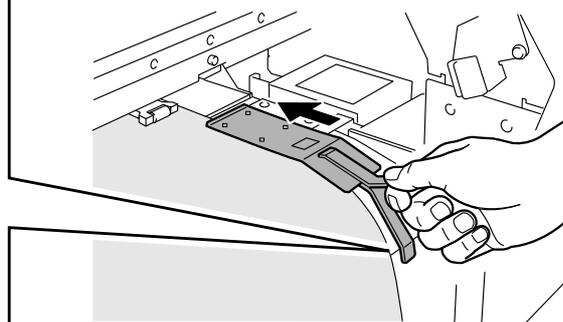
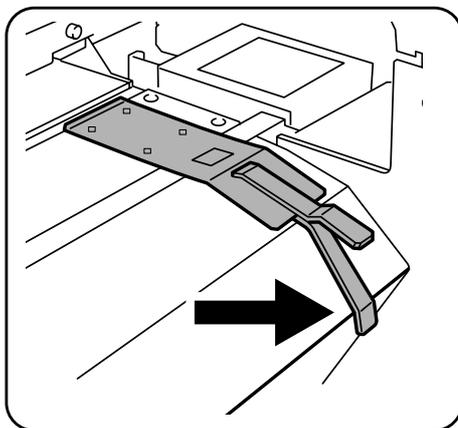
5. Set the orientation for automatic take-up.



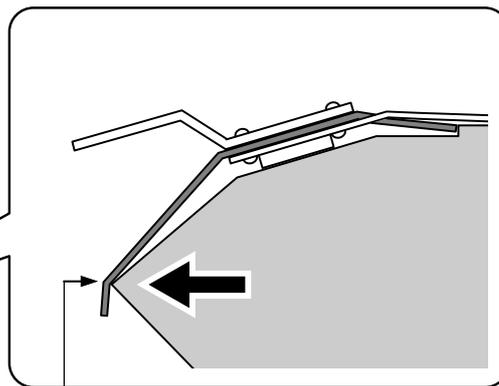
Make the setting for the AUTO switch.

6. Set the media clamps and close the front cover.

- 1 Set the media clamps.
The media clamps are magnetic.



Line up the hole with the end of the media.



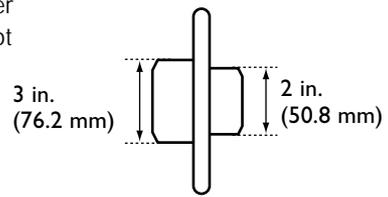
Engage this area of the media clamp onto the edge of the platen.

- 2 Close the front cover.
Press **SET UP**.

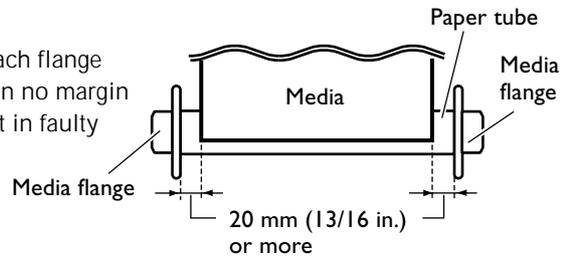
When using the core from used-up rolled media as the paper tube

When mounting the paper tube on the flanges, make sure that the paper tube fits snugly. Attempting to take up media when the paper tube is not stable may cause problems such as the paper tube coming loose. The outer diameter of the flange portion where the paper tube is fitted is shown below.

Side view of flange



Make sure the margin described below is present between each flange and the edge of the media. Attempting to take up media when no margin is present may cause the media to touch the flange and result in faulty take-up.



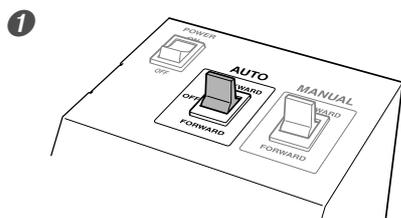
Important Notes on the Media Take-up Systems

Never attempt any operation that pulls the media by using . Doing so may activate a protective feature and result in an error.

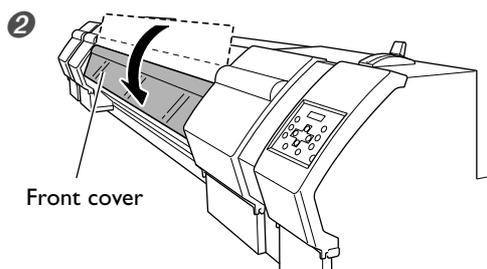
Removing Media

- ⚠ CAUTION** Removal of taken-up roll media from the unit is a task which must be carried out by two or more persons. Injury may result if attempted by one person without assistance.
- ⚠ CAUTION** When the reinforcement pipe is inserted into the paper tube, do not angle the paper tube. The reinforcement pipe may protrude from the paper tube and cause injury.

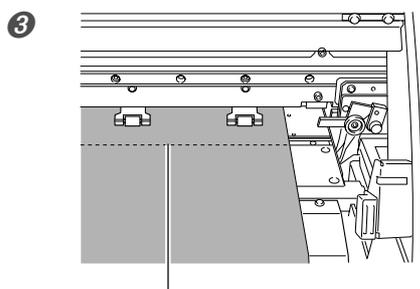
1. Cut off the media.



Set the AUTO switch off.



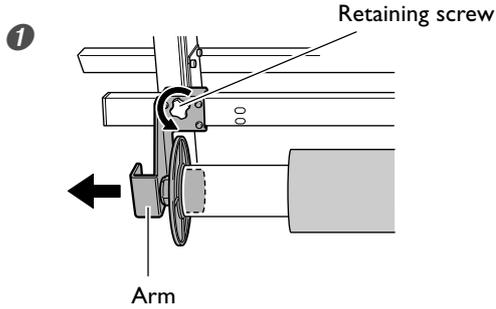
Close the front cover.
Make sure **SET UP** lights up.



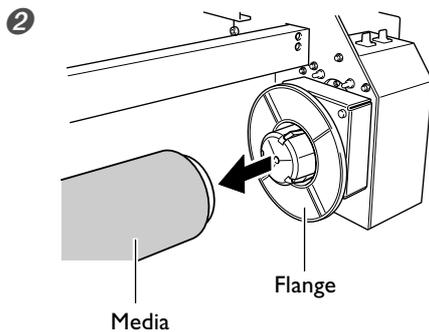
Hold down **SHEET CUT** for one second or longer.



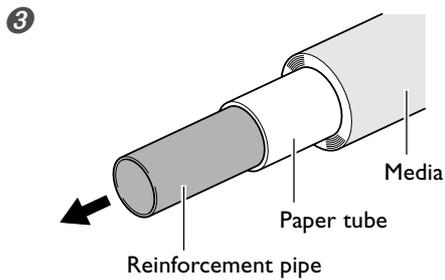
2. Remove the media that has been taken up.



Support the paper tube to prevent from falling.
The second person loosens the retaining screw and moves the arm.



Detach the media from the flanges.



Detach the reinforcement pipe from the paper tube.

Cut-off Operations

- Do not cut off the media while take-up is in progress. Take-up quits as soon as the media is cut off. Be especially careful when you're printing more than one page.

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.

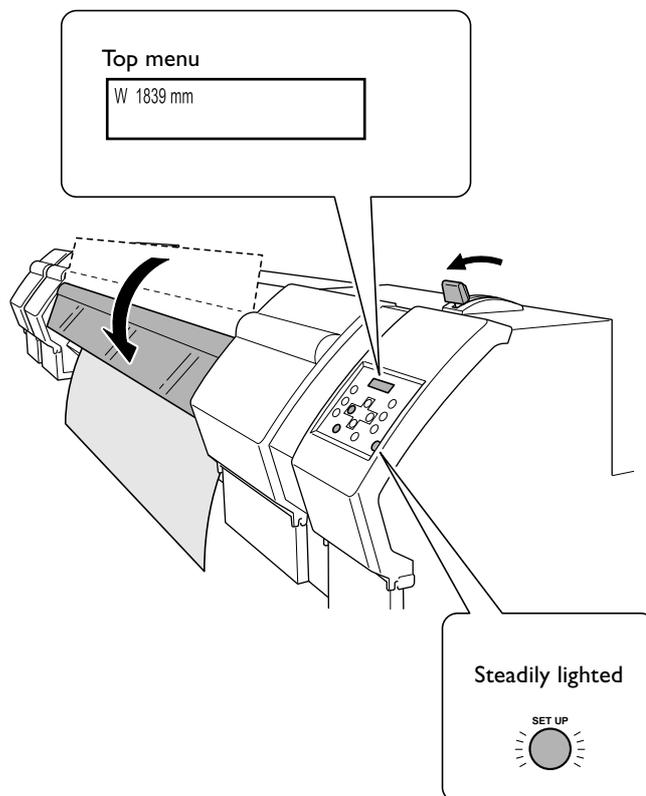
2-3 Starting Printing

Getting Ready to Receive Data from a Computer

When you have finished loading media, then follow the steps below. This procedure enables the machine to receive data from the computer and perform printing.

Procedure

- 1 Close the front cover.
- 2 Press **SET UP** (making the light come on).
- 3 Make sure you are at the top menu.
If you are not at the top menu, press **MENU** , then press **◀** .



Printing Is Not Possible in These Situation

- > The machine does not run when the front cover is open. Also, never open it when printing is in progress. Doing so interrupts printing.
- > Data from the computer is not accepted when **SET UP** is dark.
- > **SET UP** does not light up when media is loaded incorrectly.
- > Data from the computer is not accepted when you are not at the top menu.

Adjusting Head Height to Match Media Thickness

Depending on the media, media may wrinkle or come loose from the platen during printing, increasing the chance of contact with the print heads. When you are using such media, adjust the head height to "HIGH."

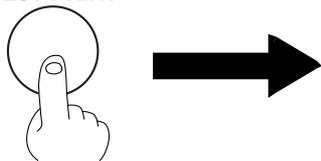
☞ p 72 "Adjusting Head Height to Match Media Thickness"

Printing Test and Cleaning

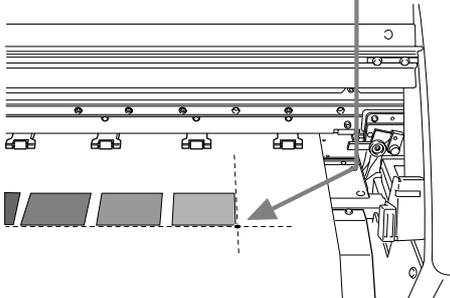
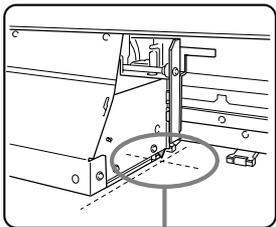
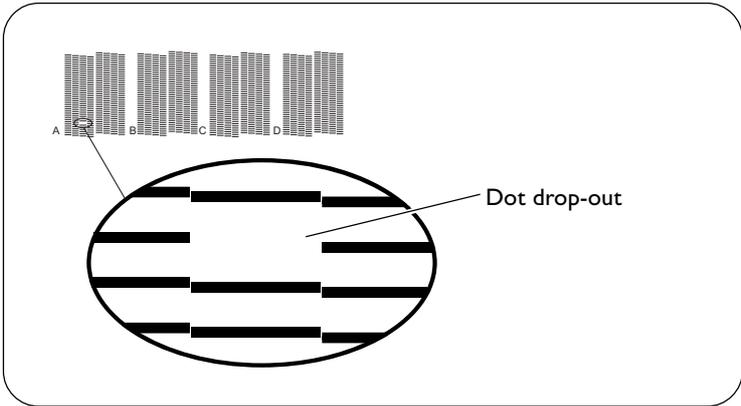
We recommend performing a printing test to check for problems such as dot drop-out before you carry out actual printing. If problems such as dot drop-out are found, clean the print heads.

How to Perform a Printing Test

TEST PRINT



Printing test

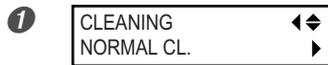


Holding down **TEST PRINT** for one second or longer prints a test pattern. You can print the test pattern where you want by using **◀** **▶** **▼** to move the print heads, then pressing **BASE POINT**. The front cover may be open during movement, but be sure to close it before you press **TEST PRINT**.

How to Perform Cleaning

When a printing test reveals dot drop-out or the like, perform cleaning for just the head that is incapable of correct printing. Compared with performing cleaning for all heads, this can reduce the amount of ink consumed.

Procedure



Press .



Press .

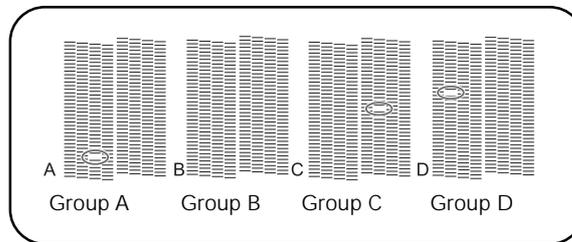


Use   to choose the group of a head that is not to be cleaned.

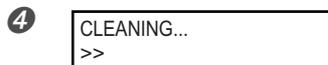
Use   to get rid of the group display.

Repeat this procedure to display the groups of only the heads that require cleaning.

Cleaning is performed only for the heads whose groups are displayed.



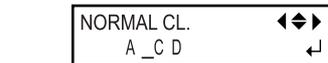
Printing-test results



Press .

Cleaning starts.

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



Press .

Press  to go back to the original screen.

6 Perform a printing test again to make sure the dot drop-out has been corrected.

If the problem persists, try performing cleaning a second time.

If the problem doesn't go away even after performing cleaning two or three times, then try cleaning using a different method.

☞ p 54 "When Head Cleaning Is Not Effective"

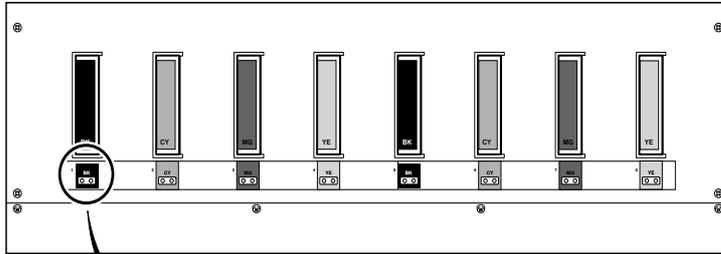
When you want to clean all heads simultaneously

Hold down  for one second or longer. Cleaning for all heads starts automatically.

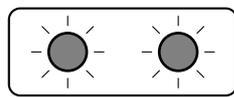
2-4 If Ink Runs Out

Checking for Remaining Ink

Checking Via the Remaining-ink Indicator

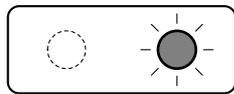


1 Displays the amount of ink remaining in each of the ink cartridges.



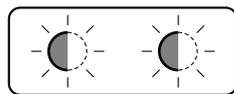
Lighted Lighted

Amount remaining : 50 to 100%



Dark Lighted

Amount remaining : 50% or less



Flashing Flashing

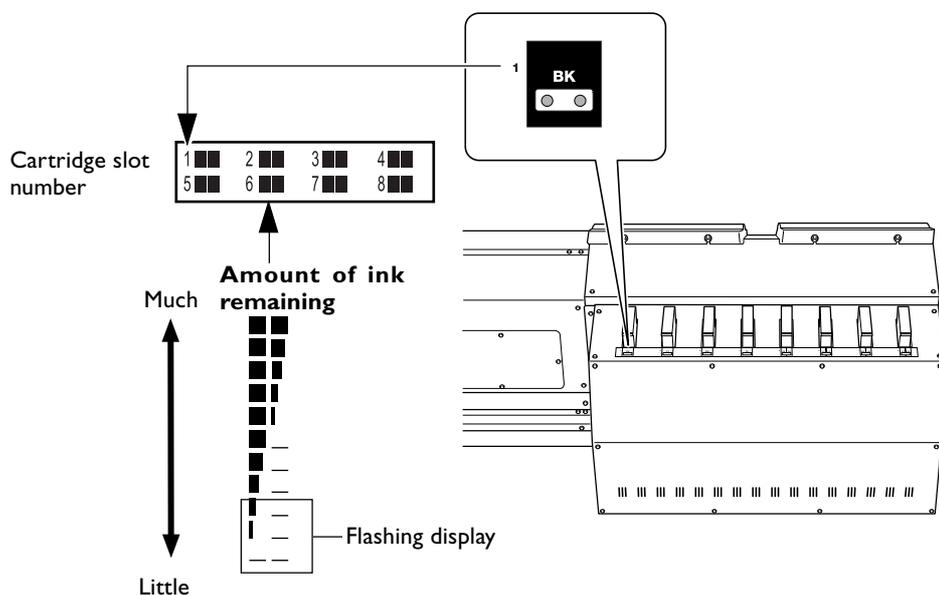
No ink

The display shows an approximate guide to the amount of remaining ink, which may differ somewhat from the actual amount remaining. Also, the displayed information may differ from the actual amount remaining if you insert a party used ink cartridge or change cartridges while the power is off.

Checking Via the Screen Display

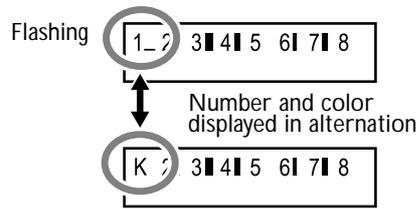
Procedure

- 1 MENU INK REMAINING
 Press .
 Press several times.
- 2 1 ■■ 2 ■■ 3 ■■ 4 ■■
 5 ■■ 6 ■■ 7 ■■ 8 ■■
 Press .
- 3 W 1839 mm
 SETUP SHEET
 Press .
 Press to go back to the original screen.



The display shows an approximate guide to the amount of remaining ink, which may differ somewhat from the actual amount remaining. Also, the displayed information may differ from the actual amount remaining if you insert a party used ink cartridge or change cartridges while the power is off.

When Ink Cartridges Become Empty



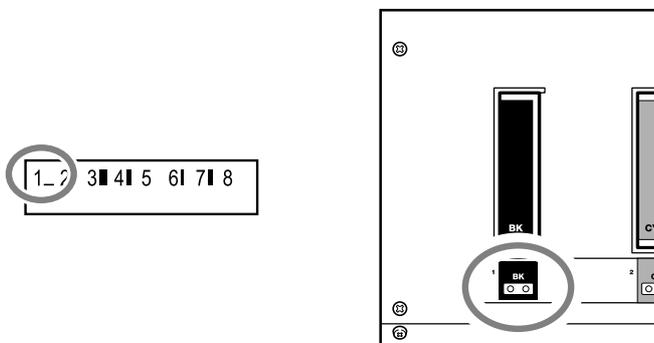
When an ink cartridge is empty, a warning beep sounds and a screen like the one shown in the figure appears. The light for the remaining-ink indicator also flashes.

Replace the cartridge immediately. Replacement is possible even while printing is in progress.

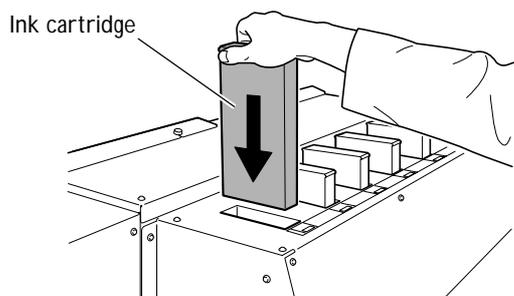
When an ink cartridge becomes empty while printing is in progress, printing does not stop immediately. A certain amount of ink still remains inside the machine, and printing continues until this ink runs out.

Procedure

- 1 Check which cartridge is empty.



- 2 Pull out the empty cartridge and immediately insert the new one.



- Keep the labeled side face up.
- Insert and remove slowly, one at a time.
- Insert firmly, as far as it will go.

Replace Cartridges Before Ink Runs Out

If ink runs out inside the machine completely, a warning beep sounds and printing pauses.

When you replace a cartridge with a new one, printing resumes after from five to ten minutes, but a difference in color may be apparent at the seam between the locations where printing paused and resumed. Be sure to replace cartridges before ink runs out.

Important Notes on Replacing Cartridges

- Be sure to replace with an item of identical type. Never mix items of different types.
- Be sure to replace with a new cartridge. Never insert a partially used ink cartridge.
- Never allow the machine to stand with an ink cartridge removed. The print heads may become clogged.
- When printing is paused, the coloring at the seam may be altered when printing resumes. Before you perform lengthy printing, check the amount of ink remaining in the ink cartridges.

Chapter 3

Maintenance and

Adjustment

3-I Daily Care and Maintenance

Disposing of Discharged Ink

CHECK
DRAIN BOTTLE

Press **ENTER**.

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

1. Choose the "DRAIN BOTTLE" menu item.

- 1

MENU	◀◆
SUB MENU	▶

 Press **MENU**.
Press **▼** several times.
- 2

SUB MENU	◀◆
MAINTENANCE	▶

 Press **▶**.
Press **▲**.
- 3

MAINTENANCE	◀◆
DRAIN BOTTLE	◀◆

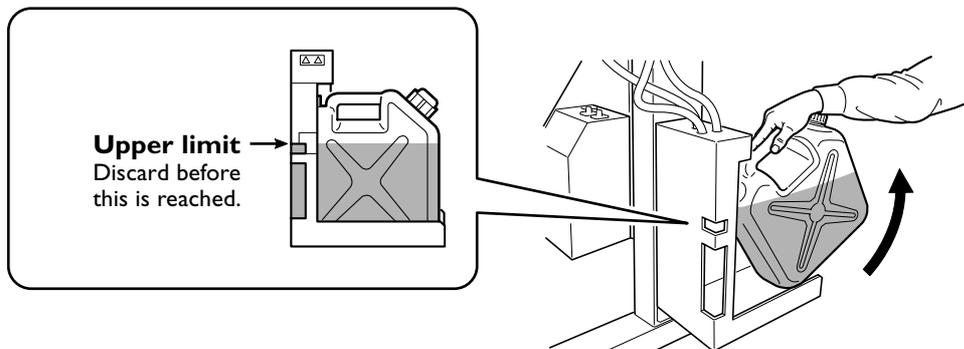
 Press **▶**.
Press **▲**.
- 4

EMPTY	◀◆
DRAIN BOTTLE	◀◆

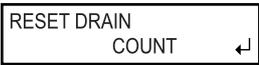
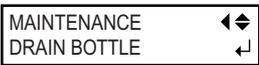
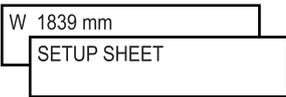
 Press **ENTER**.
Preparations are complete when this screen appears.

2. Empty the bottle by discarding the discharged fluid.

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.



3. Attach the emptied bottle and reset the discharged-fluid count.

- 1  Press .
- 2  Press  a second time.
- 3  Press .
Press  to go back to the original screen.

Dispose of discharged fluid properly, in accordance with the laws in effect in your locale. Discharged fluid is flammable and contains toxic ingredients. Do not attempt to incinerate discharged fluid or discard it with ordinary trash. Also, do not dispose of it in sewer systems, rivers, or streams. Doing so may have an adverse impact on the environment.

Cleaning

Pinch rollers

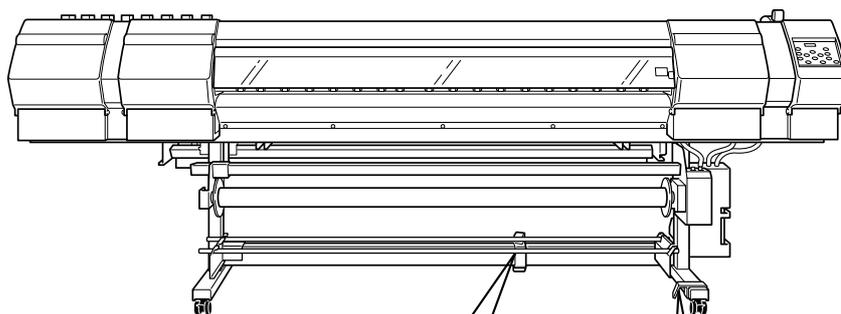
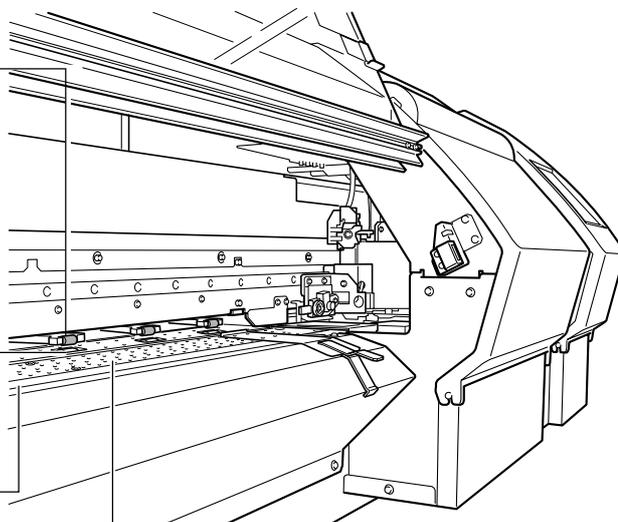
Periodically wipe away any grime. Failure to clean properly may result in the transfer of grime to the surface of media.

Grit rollers

Remove buildup of media and other material using a brush. Never use a metal brush.

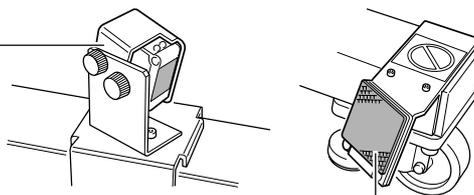
Clean this area especially well. Any soiling present here may impair detection of media width.

Wipe away any buildup of ink or grime on the media path.



Mirror and Sensor

Wipe clean with a dry cloth. Grime on the mirror or sensor may cause media in the sensor detection area not to be sensed correctly.



⚠ 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.

- This machine is a precision device, and is sensitive to dust and dirt. Perform cleaning on a daily basis.
- Clean by wiping with a cloth moistened by neutral detergent diluted with water then wrung dry.
- Never attempt to oil or lubricate the machine.

Care and Maintenance of the Print Heads

Daily Care and Maintenance

Use the machine's head-cleaning feature to perform maintenance.

☞ p 43 "Printing Test and Cleaning", p 54 "When Head Cleaning Is Not Effective"

Periodic Care and Maintenance

If problems such as dot drop-out occur frequently and are not corrected by the machine's head-cleaning feature, clean the heads using the cleaning kit. Such cleaning can be effective when carried out periodically, according to the frequency of use.

☞ p 56 "Cleaning the Heads Using the Cleaning Kit"

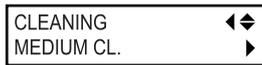
*The print heads are components that wear out. Periodic replacement is required, with the frequency of replacement depending on use. Purchase them from your authorized Roland DG Corp. dealer or Roland DG Corp. service center.

3-2 When Head Cleaning Is Not Effective

Performing More Powerful Cleaning

When the problems such as dot drop-out are not cleared up by the "normal cleaning," try the more forceful "medium cleaning" or the even more forceful "powerful cleaning." Note, however, that this consumes more ink than "normal cleaning," and too-frequent use may damage the print heads themselves. Avoid using it more than necessary. In the same way as for normal cleaning, choose and clean only heads that are incapable of correct printing.

1. Choose "medium cleaning" or "powerful cleaning."



Press **CLEANING**.
"Medium" : Press **▼** once.
"Powerful" : Press **▼** twice.

2. Specify the head group to clean.



Press **▶**.

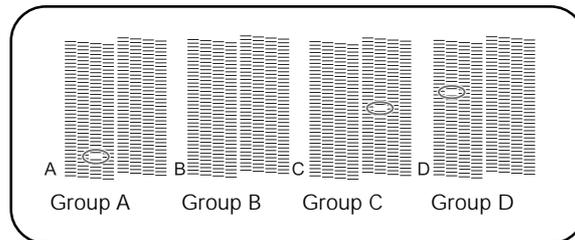


Use **◀** **▶** to choose the group of a head that is not to be cleaned.

Use **▲** **▼** to get rid of the group display.

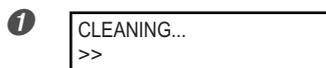
Repeat this procedure to display the groups of only the heads that require cleaning.

Cleaning is performed only for the heads whose groups are displayed.



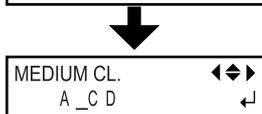
Printing-test results

3. Start cleaning.



Press **ENTER**.
Cleaning starts.

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



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

When Powerful Cleaning Is Not Effective

If problems such as dot drop-out persist even after you have performed powerful cleaning several times, then use the cleaning kit to clean the heads. Such cleaning can be effective when carried out periodically, according to the frequency of use.

☞ p 56 "Cleaning the Heads Using the Cleaning Kit"

3-3 Cleaning the Heads Using the Cleaning Kit

When the Cleaning Kit Becomes Necessary

Periodic Care and Maintenance

Use the cleaning kit to perform head-cleaning periodically, according to the frequency of use.

When dot drop-out or the like occur frequently

When the machine's head-cleaning feature does not correct the problem, clean the heads using the cleaning kit.

- If you use up the cleaning kit, purchase a new one from 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.

How to Perform Cleaning

Important Notes on This Procedure

- To prevent the heads from drying out, finish this procedure in 30 minutes or less.
- A warning beep sounds after 30 minutes. At this time, stop work, attach the right side cover, and press **ENTER**. When the head-protection operation finishes, restart the procedure from the beginning.
- Never use any implement other than the included cleaning stick. Cotton swabs or other lint-producing items may damage the heads.
- Never touch the nozzle surface of the heads.
- Stroke the sponges very gently, applying as little pressure as possible. Never rub, scrape, or crush them.

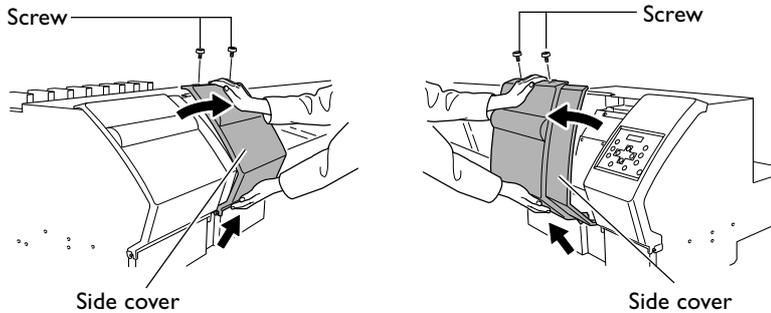
⚠ CAUTION Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions. Sudden movement of the machine may cause injury.

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

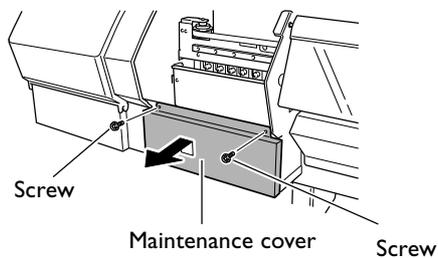
- | | |
|--|--|
| <p>①</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> MENU ◀▶
 SUB MENU ▶ </div> | <p>Press  .
 Press  several times.</p> |
| <p>②</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> SUB MENU ◀▶
 MAINTENANCE ▶ </div> | <p>Press  .
 Press  .</p> |
| <p>③</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> MAINTENANCE ◀▶
 CLEANING ◀↓ </div> | <p>Press  .
 Press  .</p> |
| <p>④</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> FINISHED? ◀↓ </div> | <p>Preparations are complete when this screen appears.</p> |

2. Remove the left and right side covers and maintenance cover.

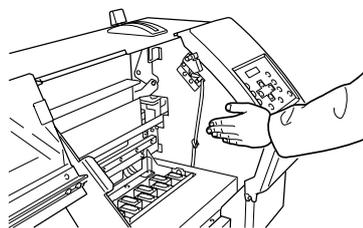
- ① Remove the left and right side covers.



- ② Remove the maintenance cover.

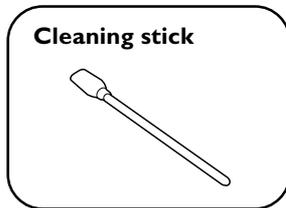


- ③ Touch the location shown in the figure to discharge any static electricity.



3. Clean using the cleaning stick. Be especially careful to clean away any fibrous dust (lint).

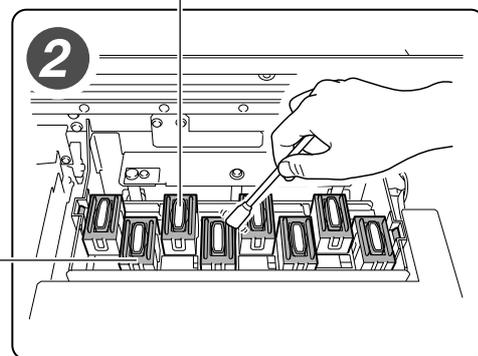
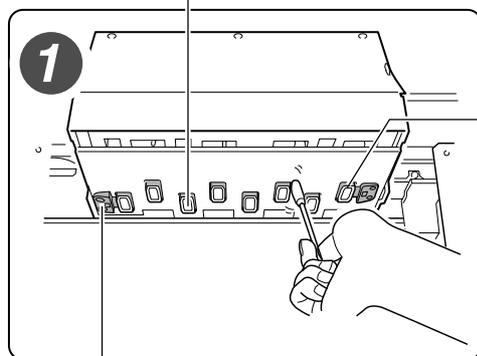
Clean in the sequence shown in the figure below.



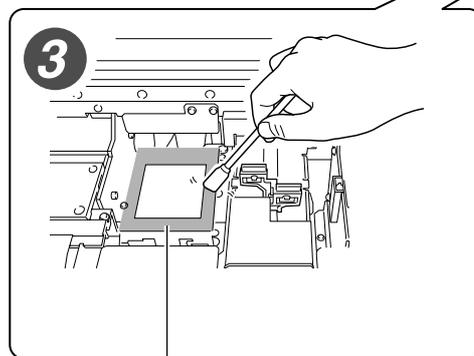
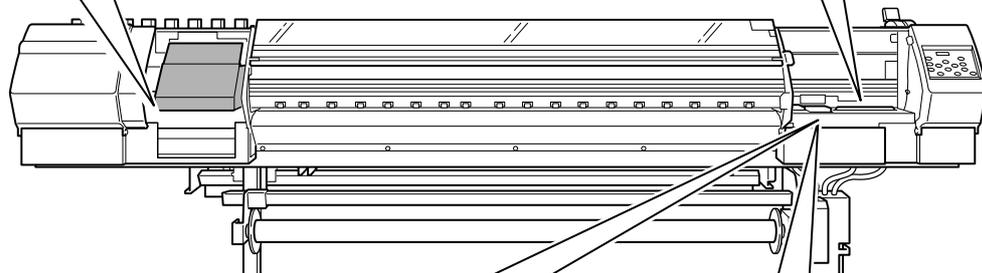
Be sure to clean using one of the included cleaning sticks.

 **Never touch the nozzle surface.**
Clean only the metal frame.

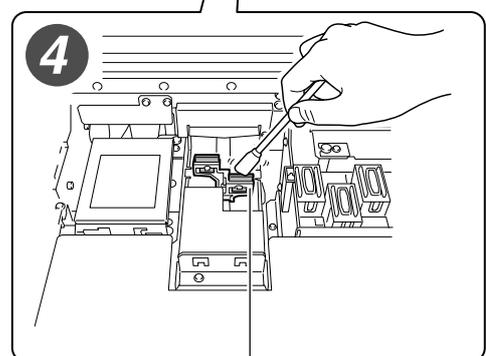
Gently stroke the sponge.
Never rub with force.



Area to clean

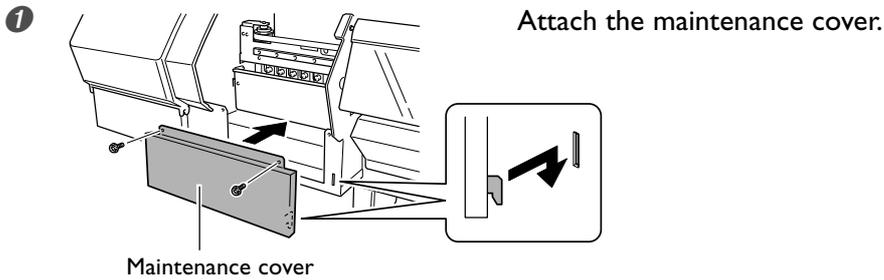


Area to clean

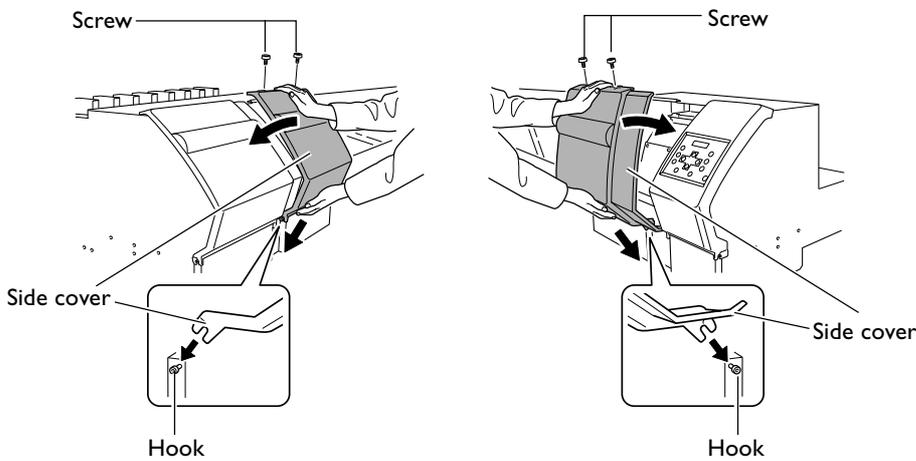


Area to clean

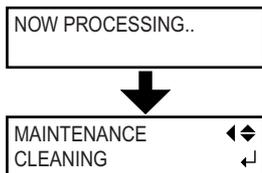
4. Reattach the maintenance cover and the side covers and quit the manual cleaning mode.



② Attach the left and right side covers.
Engage the covers on the hooks to install.

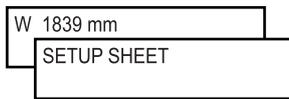


③ Press **ENTER**.



After the processing to quit the manual cleaning mode ends, the screen shown in the figure appears.

④ Press **MENU**.
Press **←** to go back to the original screen.



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

Perform a printing test to check the results.
Perform automatic cleaning several times as required.

☞ p 43 "Printing Test and Cleaning"

3-4 Replacing Consumable Parts

Replacing the Wipers



Press .

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

Important Notes on This Procedure

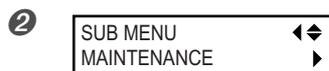
- > To prevent the heads from drying out, finish this procedure in 30 minutes or less.
- > A warning beep sounds after 30 minutes. At this time, stop work, attach the right side cover, and press . When the head-protection operation finishes, restart the procedure from the beginning.

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

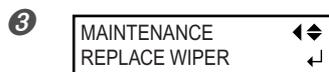
1. Display the [REPLACE WIPER] menu.



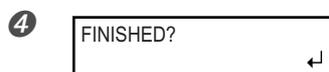
Press .
Press several times.



Press .
Press .



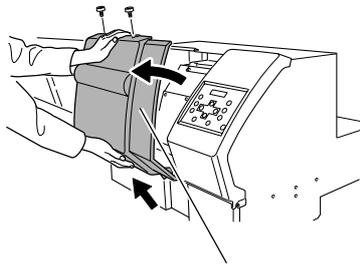
Press .
Press .
Press .



Preparations are complete when this screen appears.

2. Remove the right side cover.

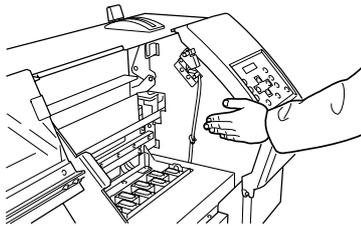
①



Right side cover

Remove the right side cover.

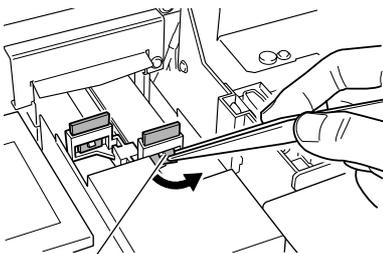
②



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

3. Replace the wipers. Use the included tweezers.

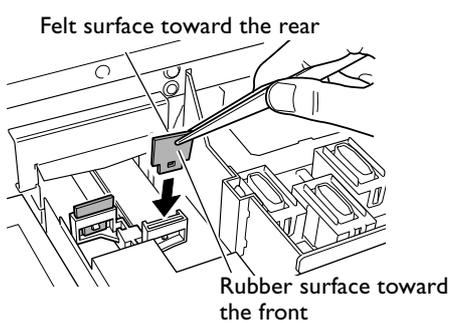
①



Hook

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

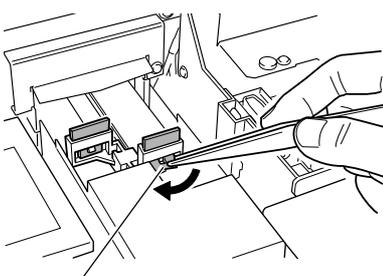
②



Rubber surface toward the front

Insert the new wipers.

③

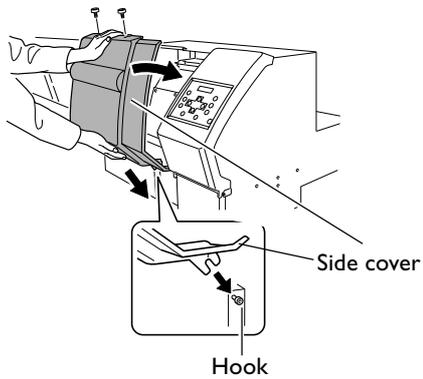


Hook

Attach the hook.

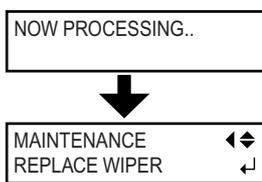
4. Reattach the right side cover and quit the [REPLACE WIPER] menu.

1



Attach the right side cover.

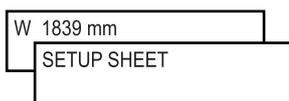
2



Press **ENTER**.

After the processing to quit the [REPLACE WIPER] menu ends, the screen shown in the figure appears.

3



Press **MENU**.

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

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

☞ p 43 "Printing Test and Cleaning"

Replacing the Separating Knife

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

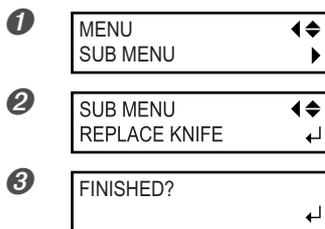
⚠ CAUTION Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions.
Sudden movement of the machine may cause injury.

⚠ CAUTION Do not touch the tip of the separating knife with your fingers.
Doing so may result in injury.

Important Notes on This Procedure

- To keep the print heads from drying out, complete the operation within three minutes.
- After three minutes a warning beep sounds. Complete the operation quickly, and when finished, press **ENTER**.

1. Enter the blade replacement mode.



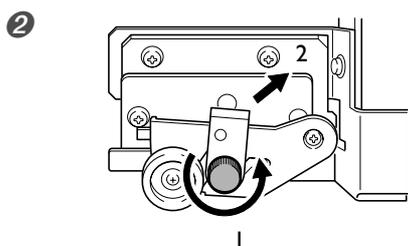
Press **MENU**.
Press **▼** several times.

Press **▶**.
Press **▼** several times.

Press **ENTER**.
Preparations are complete when this screen appears.

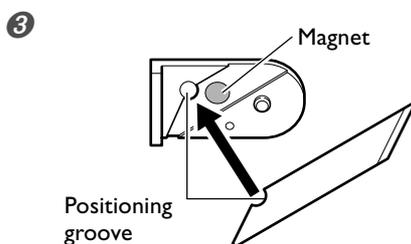
2. Replace the separating knife.

1 Open the front cover.



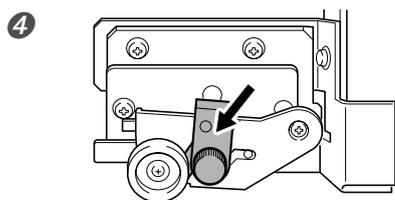
Remove the separating knife.

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.

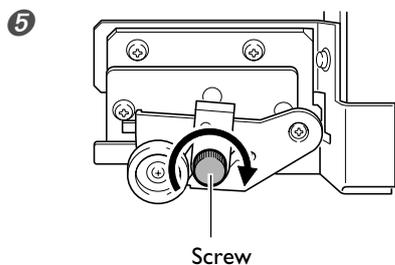


Install a new knife.

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 [REPLACE KNIFE] menu.

Close the front cover, and press **ENTER**.

3-5 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 heads.

If the Machine Will Be Out of Use for a Month or Longer

If the machine will be out of use for a month or longer, follow "Draining Ink and Performing Internal Washing" to wash the heads. This operation requires eight-unused genuine Roland DG Corp. cleaning cartridges. Have these on hand before you start.

☞ p 92 "Draining Ink and Performing Internal Washing"

Chapter 4

Feature Reference

4-I Pausing or Canceling Printing

Canceling Printing Before It Finishes

Procedure

- 1 Press **PAUSE**.
- 2 Hold down **SET UP** for one second or longer.
- 3 Stop sending printing data from the computer.

Description

PAUSE pauses printing. Pressing **PAUSE** a second time here resumes printing, but a horizontal stripe is produced at the location where printing was stopped. We do not recommend resuming printing.

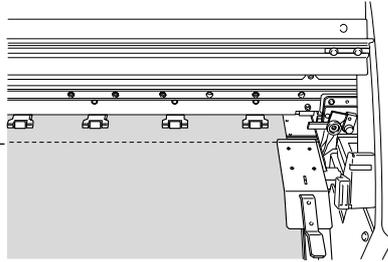
4-2 Setting the Printing Position and Margins

Shifting the Print-start Position to the Rear

Procedure

Use  to move the media.

Print-start position



Description

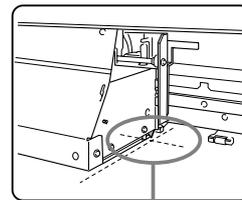
Using  to move the media lets you shift the print-start position toward the rear. Never use . Doing so may cause the take-up unit to pull the media with undue force, resulting in an error or malfunction.

Shifting the Printing Position to the Left

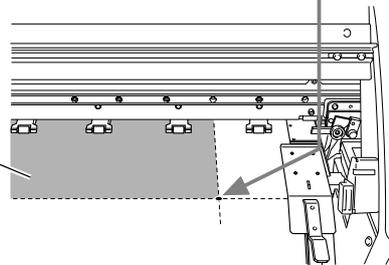
Procedure

- 1 Use   to move the heads.
- 2 Press .
- 3 If the front cover is open, then close it.
- 4 Press .

BASE POINT



Printing area



Description

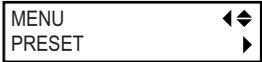
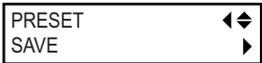
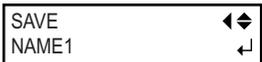
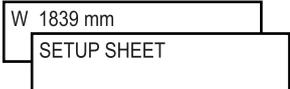
You can shift the printing position to the left by using . Note, however that this setting must be made for each individual page. When the printing of one page finishes, the left-right positioning returns to its default value. When the position has been set,  lights up and the screen displays the printable width at the set position.

This feature is also available when printing various test patterns, and can help you use media with less waste. Note, however, that the left and right positions are not restored to their defaults for test patterns.

4-3 Making Simple Changes to the Printer Settings to Match the Media

Saving Optimized Media Settings As Preset Values

Procedure

- 1  Press .
- 2  Press 
Press .
- 3  Press 
Use   to select any one from NAME1 to NAME8.
Press  to save.
The present menu settings are saved in the preset you chose in step 3.
- 4  Press 
Press  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. 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. You can group together the settings you've made at the menus shown below and save them as a preset.

➤ **Required menu items for using media whose width cannot be detected automatically**

[SHEET TYPE], [SHEET WIDTH], [SHEET POS.]

☞ p 80 "Loading Media Whose Width Cannot Be Detected Automatically"

➤ **Menu items for adjustments to match the thickness**

[ADJUST BI-DIR], [CALIBRATION]

☞ p 73 "Correcting for Misalignment in Bidirectional Printing", p 75 "Correcting for Misalignment in Bidirectional Printing More Precisely"

➤ **Menu-item settings that control operation during printing**

[SCAN INTERVAL], [VACUUM POWER], [FULL WIDTH S]

☞ p 81 "Printing Hard-to-dry Media", p 82 "Preventing Media from Coming Loose", p 83 "Speeding Up Printing for Narrow Media"

➤ **Menu item for expanding the printing area**

[SIDE MARGIN]

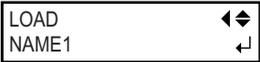
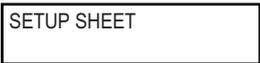
☞ p 85 "Expanding the Printing Area by Reducing the Margins"

You can save up to eight presets. You can assign a name to each preset. Using media names may aid recognition and clarity.

☞ p 71 "Loading a Saved Preset", p 71 "Assigning a Name to a Preset"

Loading a Saved Preset

Procedure

- 1  Press .
- 2  Press  twice.
Use   to select the name of a present you want to load.
- 3  Press  to load.
The settings are changed and the screen shown in the figure appears.

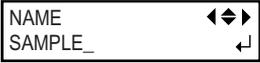
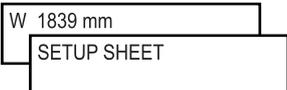
Description

This loads a saved preset. You can select any one of eight types of presets. (When no names have been assigned, you select from among NAME1 through NAME8.)

If you load a preset while  is illuminated,  goes dark. To start printing, press  once more and redo the preparations for printing.

Assigning a Name to a Preset

Procedure

- 1  Press .
Press .
Press  twice.
- 2  Press .
Use   to select any one from NAME1 to NAME8.
- 3  Press .
Use   to enter a character.
- 4  Press .
Use   to enter the next character.
Enter the following characters in the same way.
When you're finished entering text, press .
- 5  Press .
Press  to go back to the original screen.

Description

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

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

4-4 Optimizing Printing to Match Media Thickness

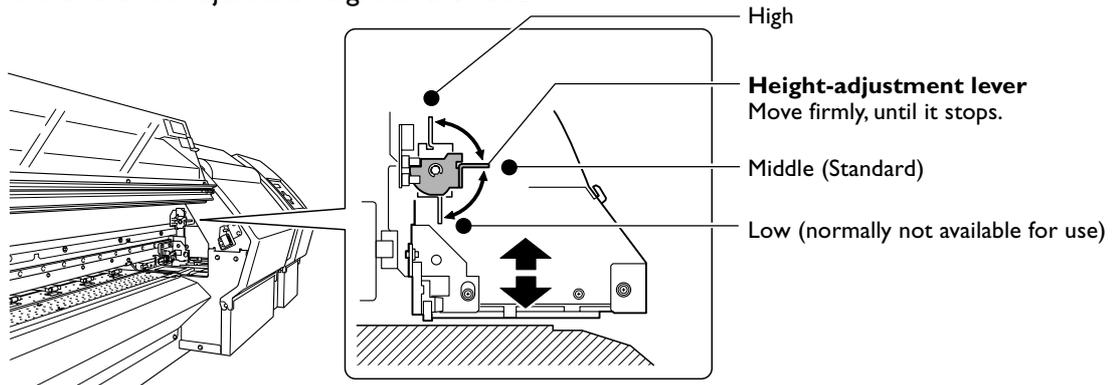
Adjusting Head Height to Match Media Thickness

Procedure

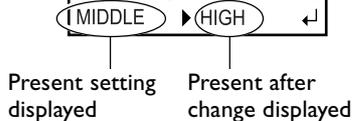
- 1 MENU HEAD HEIGHT Press **MENU**.
Press **▼** several times.

- 2 HEAD HEIGHT MIDDLE Press **▶**.

- 3 Move the lever to adjust the height of the head.



- 4 HEAD HEIGHT HIGH Press **ENTER** to enable the setting.



- 5 W 1839 mm SETUP SHEET Press **MENU**.
Press **◀** to go back to the original screen.

Description

Depending on the media, media may wrinkle or come loose from the platen during printing, increasing the chance of contact with the print heads. When you are using such media, adjust the head height to "HIGH."

Note that the height of the heads cannot be determined by just the thickness of the media.

When the height is set to "LOW," the media clamps cannot be used. Except in special cases, the "LOW" setting should never be used. Doing so may cause the heads to strike the clamps and become damaged.

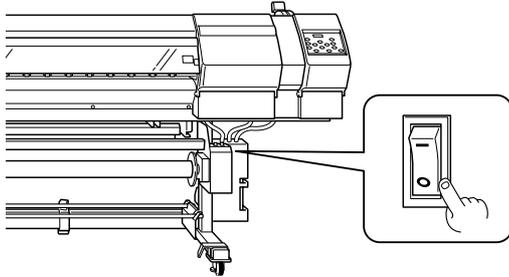
Default Setting

[HEAD HEIGHT]: MIDDLE

Correcting for Misalignment in Bidirectional Printing

Procedure

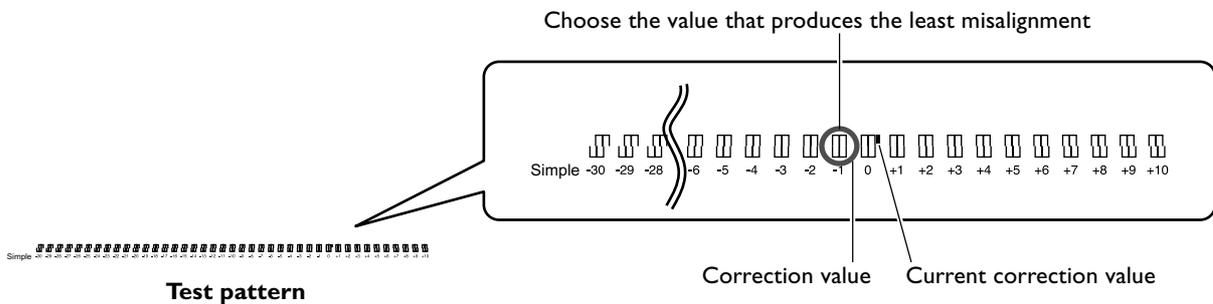
1. Switch off the power to the take-up unit.



2. Print a test pattern.

- | | | |
|----------|---|--------------------------------------|
| 1 | MENU ◀▶
ADJUST BI-DIR ▶ | Press .
Press . |
| 2 | ADJUST BI-DIR ◀▶
TEST PRINT ◀▶ | Press .
Press to start printing. |

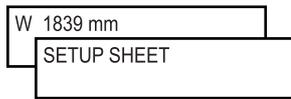
3. Read the correction values from the test pattern.



4. Enter the correction values that you read.

- | | | |
|----------|--|---|
| 1 | ADJUST BI-DIR ◀▶
SIMPLE SETTING ▶ | Press . |
| 2 | SIMPLE SETTING ◀▶
0 ▶ -1 ◀▶ | Press .
Use to set the correction values.
Press to enable the setting. |

5. Go back to the original screen.



Press .
Press  to go back to the original screen.

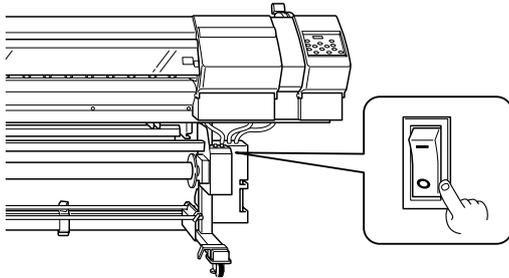
Description

The bidirectional-printing mode (in which the heads perform printing during both their outbound pass and return pass) offers the advantage of being fast, but subtle misalignment occurs between the outbound and return passes. The procedure to correct this and eliminate misalignment is bidirectional correction. This misalignment varies according to the head height and the thickness of the media, so we recommend performing correction to match the media you're using.

Correcting for Misalignment in Bidirectional Printing More Precisely

Procedure

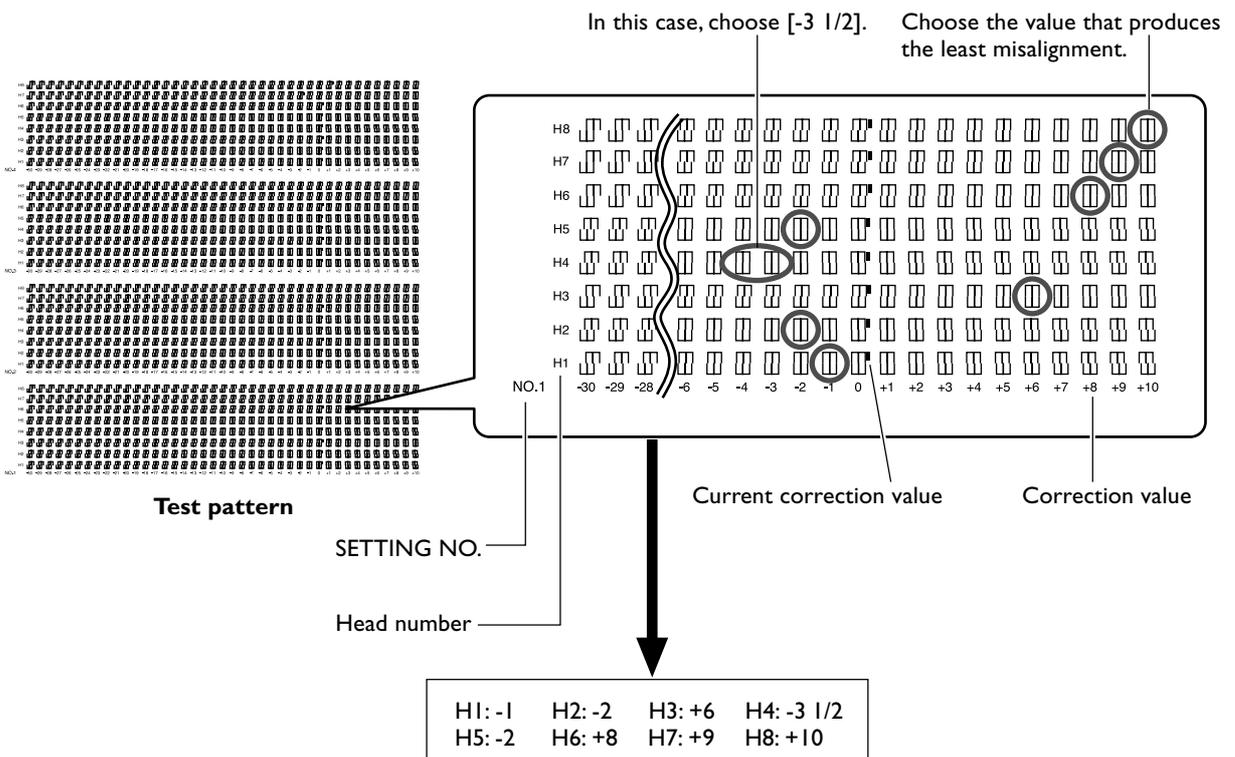
1. Switch off the power to the take-up unit.



2. Print a test pattern.

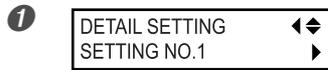
- 1 MENU ◀▶
ADJUST BI-DIR ▶ Press .
Press .
 - 2 ADJUST BI-DIR ◀▶
DETAIL SETTING ▶ Press .
Press twice.
 - 3 DETAIL SETTING ◀▶
TEST PRINT ↵ Press .
- 4 Press to start printing.

3. Read the correction values from the test pattern.

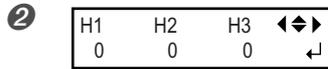


4. Enter the correction values that you read.

Enter the corresponding correction values for H1 through H8.



Press .

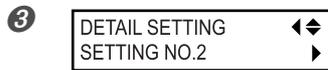


Press .

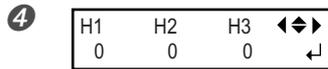
Use   to select.

Use   to set the correction values.

Press  for finish making the settings for SETTING NO.1.



Press .

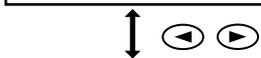
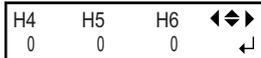


Press .

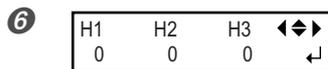
Use   to select.

Use   to set the correction values.

Press  for finish making the settings for SETTING NO.2.



Press .

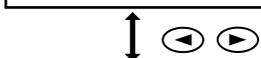
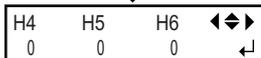


Press .

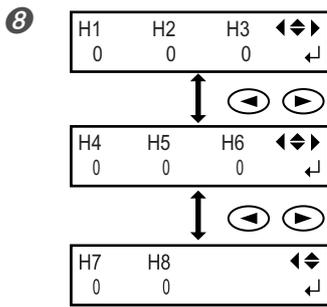
Use   to select.

Use   to set the correction values.

Press  for finish making the settings for SETTING NO.3.

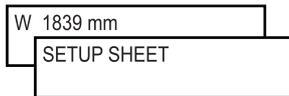


Press .



Press .
 Use to select.
 Use to set the correction values.
 Press for finish making the settings for SETTING NO.4.

5. Go back to the original screen.



Press .
 Press to go back to the original screen.

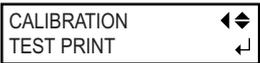
Description

This corrects, for each head, the minute misalignment that occurs in the bidirectional-printing mode. When further correction is required, such as when adjustment made using [SIMPLE SETTING] do not enhance printing, use [DETAIL SETTING] to make corrections for each head.

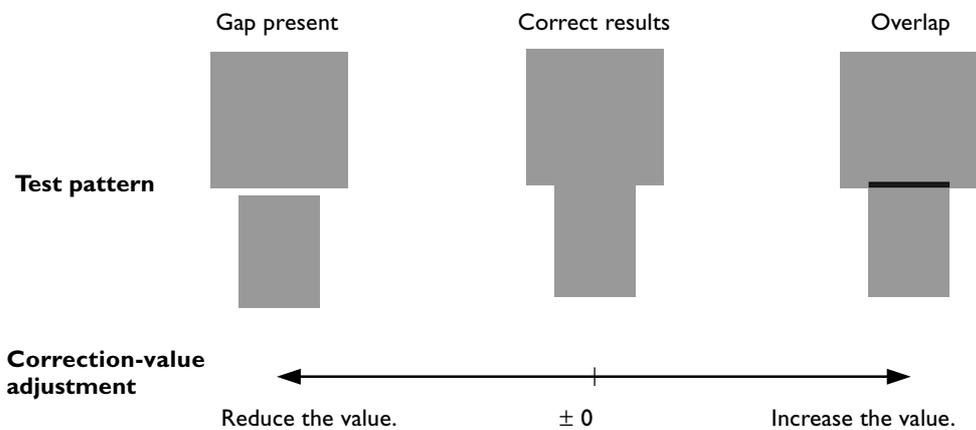
Performing Feed Correction to Alleviate Horizontal Bands and the Like

Procedure

1. Print a test pattern.

- 1  Press .
Press  several times.
- 2  Press .
Press  to start printing.

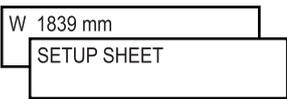
2. Check the test pattern you printed.



3. Enter the correction value.

- 
- Press .
 - Press .
 - Use   to make the setting for the correction value.
 - Press  to enable the setting.

4. Go back to the original screen.

- 
- Press .
 - Press  to go back to the original screen.

Description

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

Printing this test pattern using parameters identical to those for actual printing. Also, using material such as media scraps that have passed through the printer may not yield correct results.

Note, however, that you can also make this setting on the computer (by, for example, choosing the media type in the RIP program you are using). Use this feature when you want to make the setting on the printer, without changing any settings on the computer. When you have made the setting on the computer, the computer's setting is used and the printer's setting is ignored.

Default Setting

[CALIBRATION]: 0.00%

4-5 Accommodating Various Kinds of Media

Loading Media Whose Width Cannot Be Detected Automatically

SHEET SET ERROR
SET AGAIN

The width and the location of the right edge of the media can normally be detected automatically by pressing **SET UP**. Depending on the type of media, however, automatic detection of media width may not be possible. If the message shown in the figure appears when you press **SET UP** while loading media, then set the width and the location of the right edge manually.

Procedure

1. Set the media type to "CLEAR."

1 MENU SUB MENU

Press **MENU**.
Press **▼** several times.

2 SHEET TYPE OPAQUE CLEAR

Press **▶** twice.
Use **▲** **▼** to select [CLEAR].
Press **ENTER** to enable the setting.

3 W 1839 mm SETUP SHEET

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

2. Make the setting for the media width.

1 MENU SUB MENU

Press **MENU**.
Press **▼** several times.

2 SUB MENU SHEET WIDTH

Press **▶**.
Press **▼**.

3 SHEET WIDTH 1879 mm 1370 mm

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

4 SUB MENU SHEET WIDTH

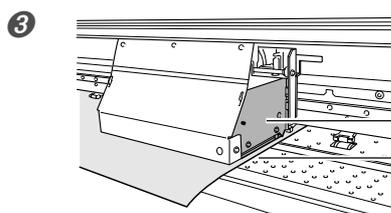
Press **◀** to go back to the previous screen.

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

1 SUB MENU SHEET POS.

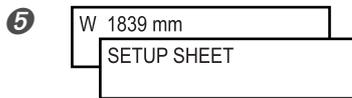
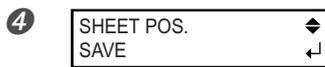
Press **▼**.
Press **▶**.
The print heads move to the position now set.

2 Open the front cover.



Use **◀** **▶** to move the heads.

Align this surface with the edge of the media.



After positioning, close the front cover.

Press **ENTER** to enable the setting.

Press **MENU**.

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

Description

Depending on the type of media, it may not be possible to detect the width of the media automatically. If this happens, you must set the media type to "CLEAR" and make the setting for the width manually. To set the width, enter the width of the media you're using, then save the location of the media's right edge. Failing to set the location of the right edge or setting it at a location different from the actual right edge of the media may cause ink to be applied at locations where no media is present.



To quit making settings at the [SHEET POS.] menu, 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 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



Press **MENU**.

Press **▼** several times.

Press **▶**.

Press **▼** several times.

Press **▶**.

Use **▲** **▼** to set the value.

Press **ENTER**.

Press **MENU**.

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

Description

You use this when ink dries poorly. Larger values produce progressively slower movement of the media, enabling you to extend the drying time accordingly. Printing time takes correspondingly longer.

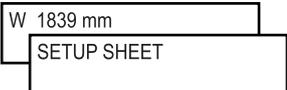
You can also make this setting on the computer. When you have made the setting on the computer, the computer's setting is used and the printer's setting is ignored.

Default Setting

[SCAN INTERVAL] : OFF

Preventing Media from Coming Loose

Procedure

- 1  Press  .
Press  several times.
- 2  Press  .
Press  several times.
- 3  Press  .
Use   to set the value.
Press  to enable the setting.
- 4  Press  .
Press  to go back to the original screen.

Description

The platen uses suction to grip the media and keep it stable. When media comes loose from the platen because it is warped or wrinkled, increasing the suction force may help correct the problem. Conversely, when the media is flimsy and cannot move smoothly, reducing the suction force may help.

When set to [AUTO], the suction force is automatically adjusted to the optimal level for the media width.

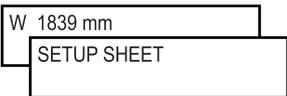
You can also make this setting on the computer. When you have made the setting on the computer, the computer's setting is used and the printer's setting is ignored.

Default Setting

[VACUUM POWER]: AUTO

Speeding Up Printing for Narrow Media

Procedure

- 1  Press .
Press  several times.
- 2  Press .
Press  several times.
- 3  Press .
Use   to select [SHEET] or [OFF].
Press  to enable the setting.
- 4  Press .
Press  to go back to the original screen.

Description

Reducing the width of head movement to the minimum required width speeds up printing. This is effective mainly when you use media of narrow width.

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

"OFF" matches the range of head 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.

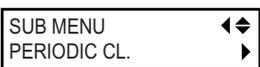
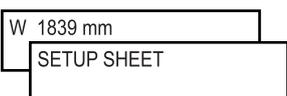
"FULL" makes the speed of media movement constant at all times.

Default Setting

[FULL WIDTH S]: FULL

Keeping Media from Being Soiled by Ink Drips

Procedure

- 1  Press .
Press  several times.
- 2  Press .
Press  several times.
- 3  Press .
Use   to a value from "10 min" to "990 min," or "PAGE."
Press  to enable the setting.
- 4  Press .
Press  to go back to the original screen.

Description

Ink tends to collect on the surface of the heads when you use media prone to build up a static charge, when the ambient temperature is low, and at other such times. Under some conditions, this ink may be transferred to the media. Use this feature at such times. The ink buildup is removed as printing is performed.

When this is set to "PAGE," automatic cleaning is performed every time before printing starts.

When this is set to a value from "10 min" to "990 min," automatic cleaning is performed when the cumulative printing time reaches the value you set here.

When this is set to "NONE," no automatic cleaning is performed.

Using this feature results in longer printing times. Also, when this is set to a value from "10 min" to "990 min," printing pauses and so colors may be uneven.

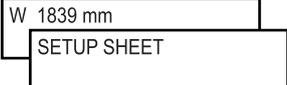
Default Setting

[PERIODIC CL.]: NONE

4-6 Changing How the Printer Operates

Determining What Happens When an Ink Cartridge Is Empty

Procedure

-  Press .
Press  several times.
-  Press .
Press  twice.
-  Press  twice.
Use  and  to make the setting.
Press  to enable the setting.
-  Press .
Press  to go back to the original screen.

Description

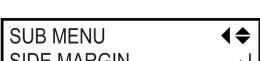
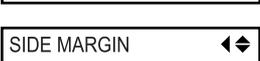
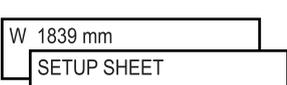
This setting determines whether printing starts on receipt of printing data when an ink cartridge is empty. When this is set to "STOP," printing does not start until the ink cartridge has been replaced. When this is set to "CONT.," printing starts and continues until the ink remaining inside the machine is used up. Regardless of the setting made for this menu item, we recommend replacing the ink cartridge immediately whenever a cartridge becomes empty.

Default Setting

[EMPTY MODE]: STOP

Expanding the Printing Area by Reducing the Margins

Procedure

-  Press .
Press  several times.
-  Press .
Press  several times.
-  Press .
Use  and  to select [5 mm].
Press  to enable the setting.
-  Press .
Press  to go back to the original screen.

Description

Choosing "5 mm" at this menu reduces the left and right margins, expanding the printing area.

"20 mm" sets the margins for the printing area at 20 millimeters.

"5 mm" sets the margins for the printing area at 5 millimeters.

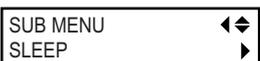
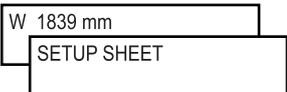
When "5 mm" is selected, detach the media clamps. Because the margins are reduced, the media clamps may be overprinted.

Default Setting

[SIDE MARGIN]: 20 mm

Setting the Interval until Activation of the Sleep Mode

Procedure

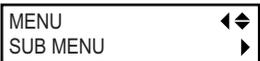
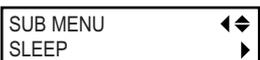
- 1  Press  .
Press  several times.
- 2  Press  .
Press  several times.
- 3  Press  twice.
Use   to make the setting.
Press  to enable the setting.
- 4  Press  .
Press  to go back to the original screen.

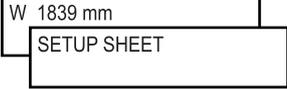
Default Setting

[INTERVAL]: 30min

Deactivating the Sleep Mode

Procedure

- 1  Press  .
Press  several times.
- 2  Press  .
Press  several times.

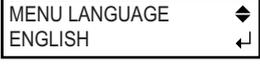
- 3  Press .
Press .
- 4  Press .
Use   to select [DISABLE].
Press  to enable the setting.
- 5  Press .
Press  to go back to the original screen.

Default Setting

[SETTING]: ENABLE

Changing the Menu Language and the Units of Measurement

Procedure

- 1  Hold down  and switch on the sub power.
Use   to select the display (menu) language.
Press .
- 2  Use   to select the measurement unit for length.
Press .

Description

This sets the language and units of measurement displayed on the printer's screen.

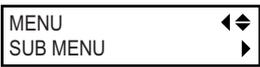
Default Setting

[MENU LANGUAGE]: ENGLISH

[LENGTH UNIT]: mm

Returning All Settings to Their Initial Values

Procedure

- 1  Press .
Press  several times.
- 2  Press .
Press  several times.
Press  to execute.

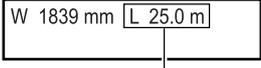
Description

This menu returns all settings to the same as their factory defaults. However, the settings for "LANGUAGE," and "LENGTH UNIT" are not returned to the factory defaults.

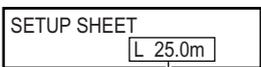
4-7 Recording the Amount of Remaining Media

Displaying the Amount of Remaining Media on the Screen

Procedure

-  Press **MENU**.
Press **▲**.
-  Press **▶**.
Press **▼**.
-  Press **▶**.
Use **▲** **▼** to set the amount of media remaining.
Press **ENTER** to enable the setting.
-  Press **MENU**.
Press **◀** to go back to the original screen.

The display is updated.



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

Description

You can display how much of the media in use is left. Once you set the amount of media remaining, the amount remaining is displayed at the top menu until it reaches zero. If you cancel the setup such as by removing the media or raising the loading lever, the amount remaining at that time flashes on the screen.

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 to display this menu automatically whenever you change the media. See the next section "Verifying the Setting for the Amount Remaining Every Time the Media Is Changed."

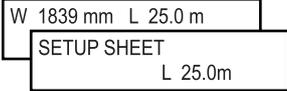
*The remaining amount that is displayed is only an estimate, and its accuracy is not assured.

Verifying the Setting for the Amount Remaining Every Time the Media Is Changed

Procedure

-  Press **MENU**.
Press **▲**.
-  Press **▶**.
Press **▲**.

4-7 Recording the Amount of Remaining Media

- ③  Press .
Use   to select [ENABLE].
Press  to enable the setting.
- ④  Press .
Press  to go back to the original screen.

Description

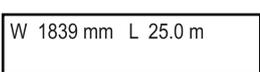
Setting this to [ENABLE] automatically displays [SHEET REMAIN] whenever you change the media and finish setup. This makes it impossible to go on to the next operation unless you redo the setting for the amount remaining. This can be useful for keeping you from forgetting to redo the setting when you change the media. When you set this to [ENABLE], however, be sure to also set the [SHEET TYPE] menu item to [OPAQUE]. When [SHEET TYPE] is set to [CLEAR], then [SHEET REMAIN] is not displayed automatically, regardless of the setting for [AUTO DISPLAY].

Default Setting

[AUTO DISPLAY] : DISABLE

Printing the Amount of Remaining Media

Procedure

- ①  Press .
Press .
- ②  Press .
Press  to perform printing.
- ③  Press .
Press  to go back to the original screen.

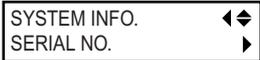
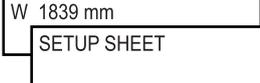
Description

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

4-8 Viewing System Information

Viewing the Serial Number, Firmware Version, and Other Information

Procedure

-  Press **MENU**.
Press **▲** several times.
-  Press **▶**.
Use **▲** **▼** to choose the information you want to view.
-  Press **▶**.
-  Press **MENU**.
Press **◀** to go back to the original screen.

Description

You can view the following information.

[MODEL]: model name

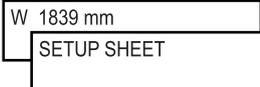
[SERIAL NO.]: serial number

[INK]: ink type

[FIRMWARE]: firmware version

Printing a System Report

Procedure

-  Press **MENU**.
Press **▼** several times.
-  Press **▶**.
Press **▲** several times.
Press **ENTER** to start printing.
-  Press **MENU**.
Press **◀** to go back to the original screen.

Description

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

4-9 Performing Maintenance

Draining Ink and Performing Internal Washing

Procedure

- | | |
|----------|----|
| MENU | ◀▶ |
| SUB MENU | ▶ |

Press .
Press several times.
- | | |
|-------------|----|
| SUB MENU | ◀▶ |
| INK CONTROL | ▶ |

Press .
Press twice.
- | | |
|-------------|----|
| INK CONTROL | ◀▶ |
| HEAD WASH | ◀↓ |

Press .
Press .
Press to execute.

Description

This drains the ink inside the printer and washes the interior using cleaning cartridges as a preliminary for moving the printer or conducting maintenance. This operation requires eight unused cleaning cartridges of the correct type for the type of ink you're using. The screen displays information such as instructions to insert and remove cartridges. Follow these instructions to carry out the procedure. After finishing washing, the sub power is switched off. You do not need to carry this out as part of your daily maintenance activities.

Draining Ink Remaining Inside the Machine

Procedure

- | | |
|----------|----|
| MENU | ◀▶ |
| SUB MENU | ▶ |

Press .
Press several times.
- | | |
|-------------|----|
| SUB MENU | ◀▶ |
| INK CONTROL | ▶ |

Press .
Press twice.
- | | |
|-------------|----|
| INK CONTROL | ◀▶ |
| PUMP UP | ◀↓ |

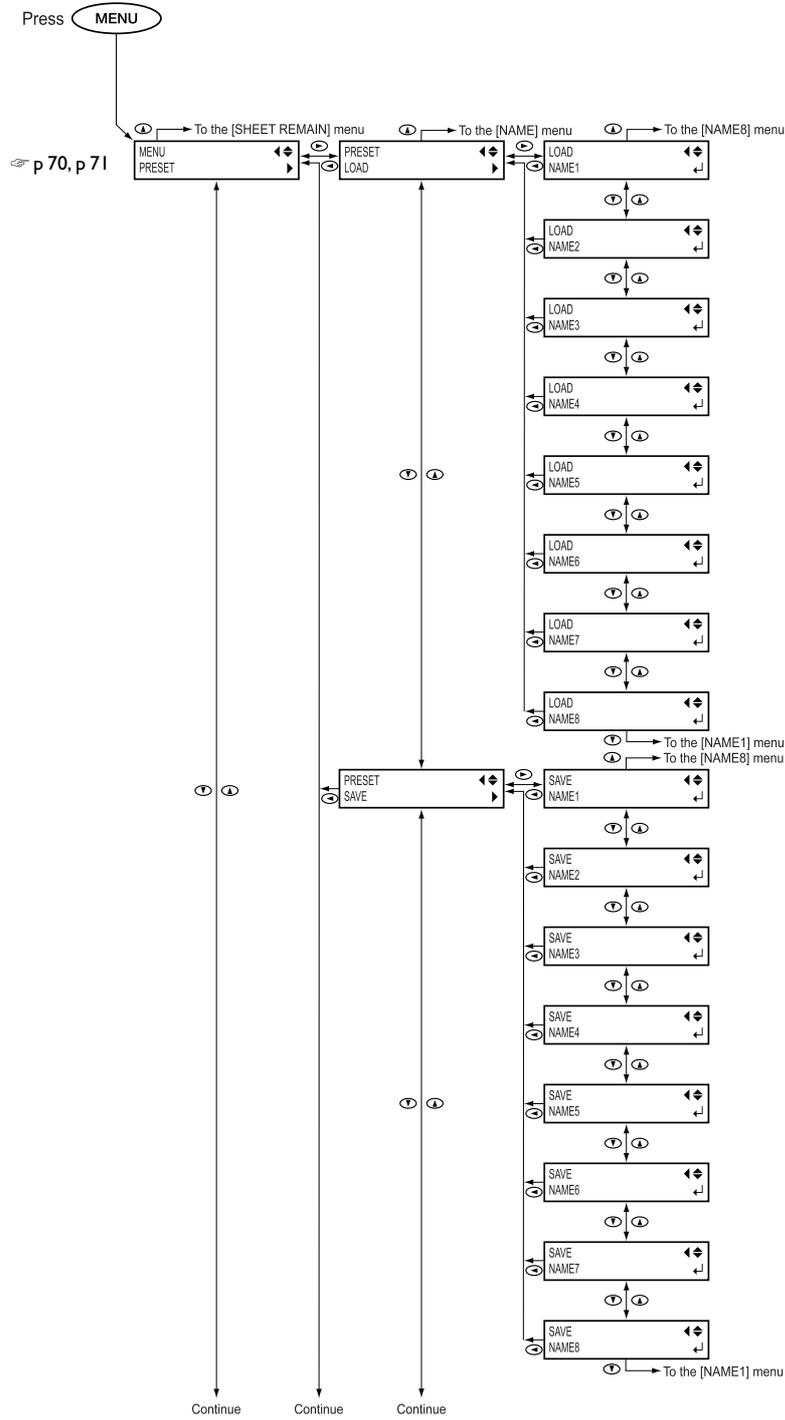
Press .
Press .
Press to execute.

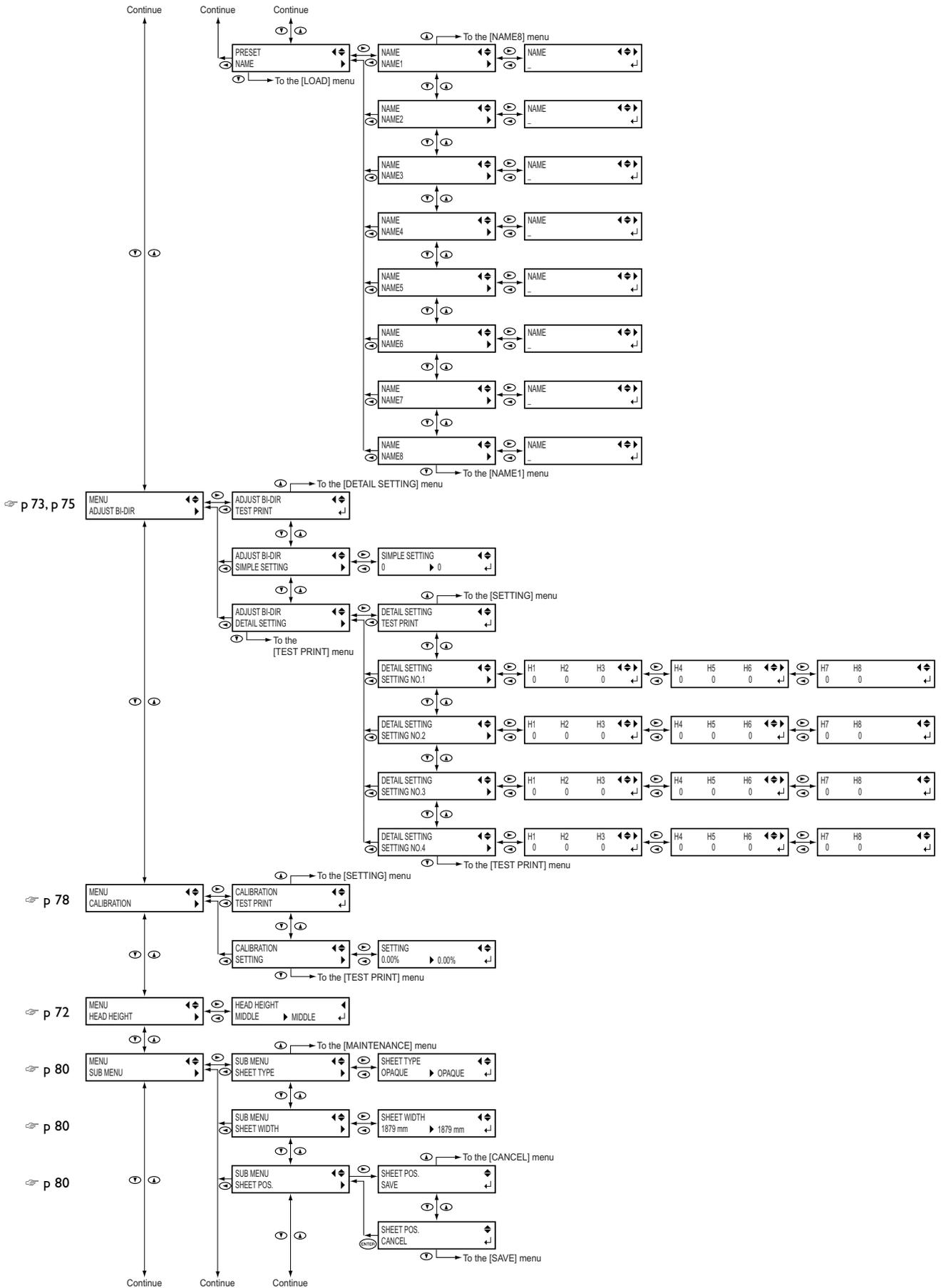
Description

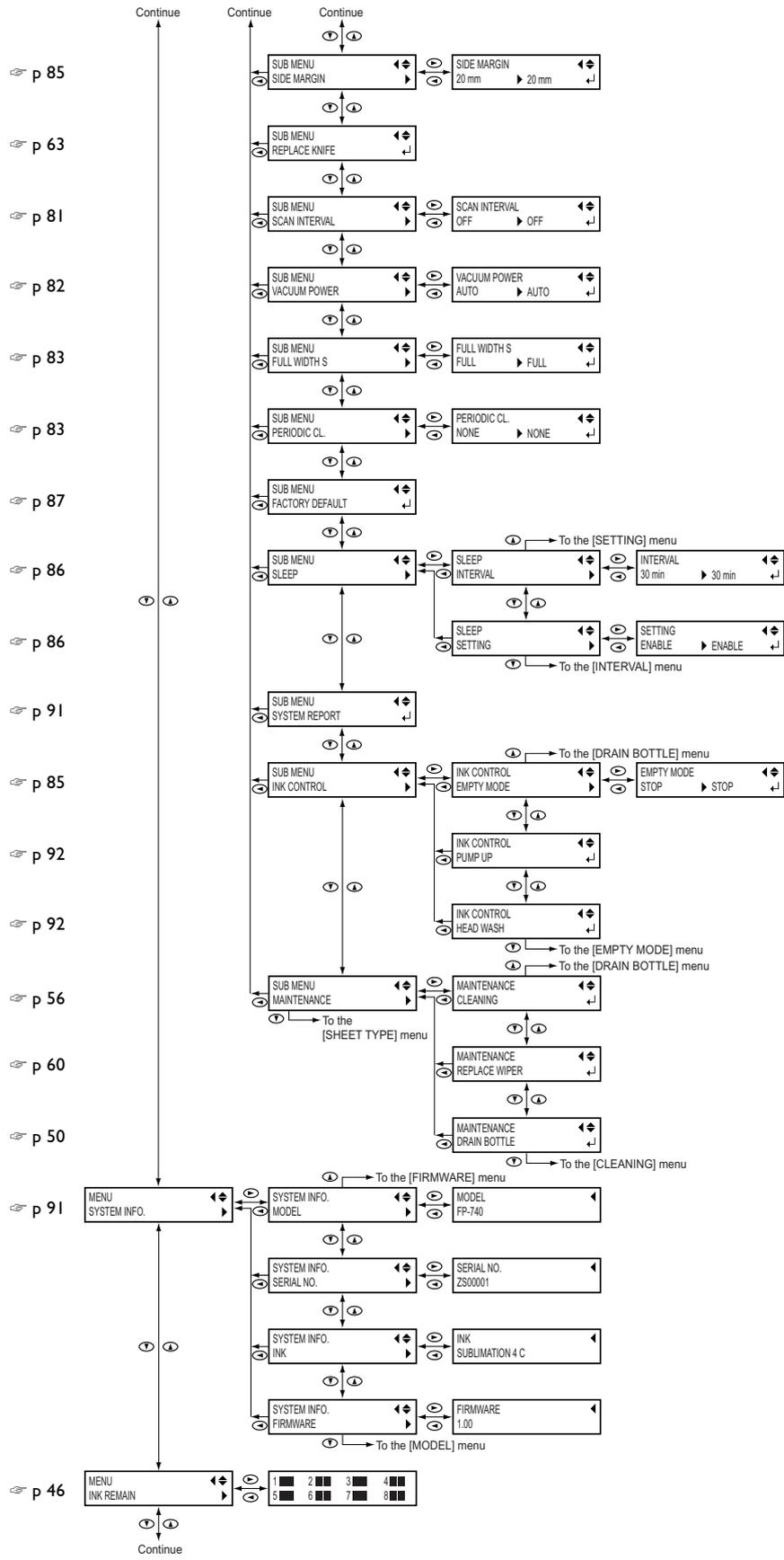
This removes ink inside the printer as a preliminary procedure for performing maintenance. The screen displays information such as instructions to insert and remove cartridges. Follow these instructions to carry out the procedure. After finishing washing, the sub power is switched off. You do not need to carry this out as part of your daily maintenance activities.

4-10 Menu List

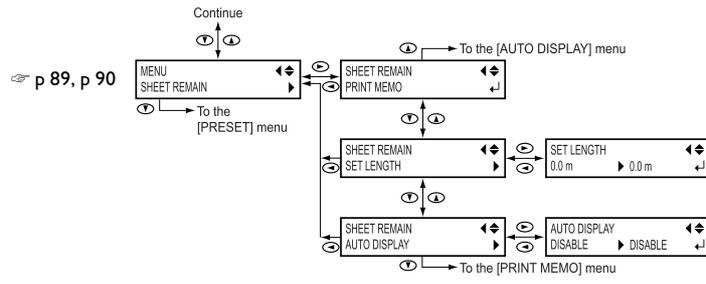
Main menu





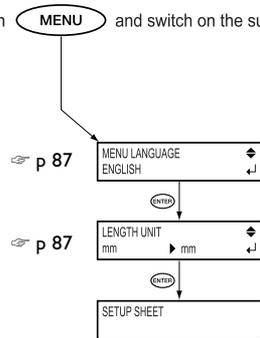


4-10 Menu List



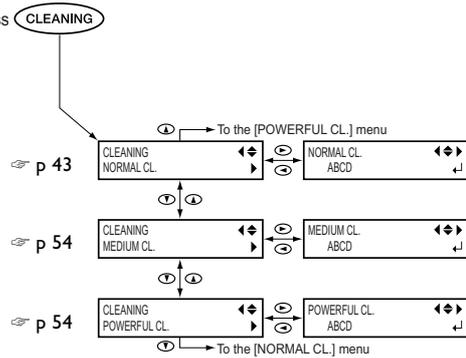
Language and Unit Menu

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

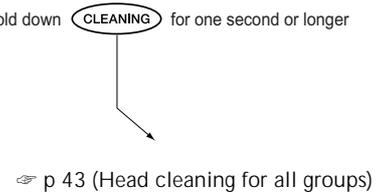


Cleaning Menu

Press **CLEANING**



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



Chapter 5

What to Do If

5-1 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.

Is illuminated?

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

Is the front cover open?

Close the front cover.

Is the top menu displayed?

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 , then press .

Is illuminated?

When  lights up, operation is paused. To resume, press .  goes dark and printing resumes.

Has ink run out?

 If a warning beep sounds and the screen shown in the figure appears, the ink cartridge indicated by the flashing number is empty. Replace it with a new ink cartridge.

At the [EMPTY MODE] menu, you can make the setting that determines whether printing starts when the printer receives printing data while an ink cartridge is empty.

☞ p 85 "Determining What Happens When an Ink Cartridge Is Empty"

Is a message displayed on the screen?

☞ p 107 "If a Message Appears"

☞ p 108 "If an Error Message Appears"

Is the cable connected?

Connect the cable securely.

The Media Take-up Doesn't Run

Is the power switched on?

Switch on both the printer's main power switch and the power switch for the take-up. To perform take-up automatically during printing, also make the setting for the AUTO switch.

Is the media loaded correctly on the paper tube?

Make sure the direction of media take-up matches the AUTO switch setting.

Is there some obstruction between the mirror and sensor?

If no corrective action is taken when the sensor has detected an obstruction, take-up is automatically switched off. Once this has happened, no take-up is performed even if the obstruction is removed after feeding out the media from the sensor detection area.

To restore the previous state, switch off the power to the unit, remove the obstruction, then switch back on.

Is media cutting being performed automatically?

Take-up quits as soon as the media is cut off. Set the printer not to perform automatic cut off.

5-2 Attractive Printing Is Impossible

Printed Results Are Coarse or Contain Horizontal Stripes

Do 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 43 "Printing Tests and Cleaning"

☞ p 54 "When Head Cleaning Is Not Effective"

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 computer to match the type of media you're using, or make the setting for correction on the printer.

☞ p 78 "Performing Feed Correction to Alleviate Horizontal Bands and the Like"

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.

☞ p 73 "Correcting for Misalignment in Bidirectional Printing"

☞ p 75 "Correcting for Misalignment in Bidirectional Printing More Precisely"

Is the print mode suitable?

Depending on the media, smudging may occur when using a high-quality print mode, and results may also vary greatly depending on the settings of your RIP program (such as the color-profile selection). Make settings suited to the media you're using.

Is the printer installed in a level and stable location?

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

Is the 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.

☞ p 105 "Media Wrinkles or Shrinks, or Feed Is Unstable"

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 70 "Saving Optimized Media Settings As Preset Values"

☞ p 71 "Loading a Saved Preset"

Colors Are Unstable or Uneven

Is the media wrinkled?

If the media is wrinkled and comes loose from the platen, colors may be uneven or printing reduce may suffer.

☞ p 105 "Media Wrinkles or Shrinks, or Feed Is Unstable"

Was printing paused partway through?

When printing is paused, the coloring at the seam may be altered when printing resumes. Avoid pausing printing. 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, and immediately replace any cartridge that becomes empty.

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.

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 83 "Speeding Up Printing for Narrow Media"

☞ p 83 "Keeping Media from Being Soiled by Ink Drips"

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, ensure that the printing heads are not exposed to wind or blown air. These factors may lead to missing dots or reduced printing quality.

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 70 "Saving Optimized Media Settings As Preset Values"

☞ p 71 "Loading a Saved Preset"

The Media Becomes Soiled When Printed

Do the print heads contact the media?

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

☞ p 105 "Media Wrinkles or Shrinks, or Feed Is Unstable"

☞ p 72 "Adjusting Head Height to Match Media Thickness"

Are 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 heads using the cleaning kit. We recommend carrying out periodic head cleaning.

☞ p 56 "Cleaning the Heads Using the Cleaning Kit"

Are the pinch rollers dirty?

Periodically clean the pinch rollers.

5-3 The Media Jams

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 108 [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 105 "Media Wrinkles or Shrinks, or Feed Is Unstable"

Is the height of the print heads too low?

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

☞ p 72 "Adjusting Head Height to Match Media Thickness"

5-4 The Media Cannot Be Taken Up Smoothly

The Media Cannot Be Taken Up Smoothly

Is media feed unstable?

Various factors can make media feed unstable. Refer to the following and correct the problem.

☞ p 105 "Media Wrinkles or Shrinks, or Feed Is Unstable"

The Media Is Not Straight

Is the width of the media 710 millimeters or more?

Media cannot be rerolled straight when its width is less than 710 millimeters. Use media measuring 710 millimeters or more.

5-5 Media Wrinkles or Shrinks, or Feed Is Unstable

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, media jams, or poor take-up. 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 tensioned unevenly on the left and right. Reload the media.

Is the roll media sagging?

Sagging of the roll can cause wrinkling or warping. When loading media, install the reinforcement pipe. Also, when storing media, place it so that it will not sag under its own weight.

The Media Is Not Straight

Is the media loaded and set up straight and securely?

Feed is not smooth when the media is not straight or tensioned unevenly on the left and right. Reload the media.

Media Feed Is Not Smooth

Do the media or the media flanges strike some other object?

Make sure the media and the dancer rollers do not touch anything else. This may affect printing, even when feed appears to be smooth.

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 grit rollers dirty?

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

5-6 The Print Heads Stopped Moving

If the print-head carriage stops over the platen, take action immediately to prevent the heads from drying out.

What to Do First

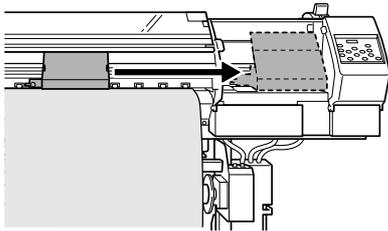
Switch the sub power off, then back on again. (If the media is jammed, then also remove the media.) If the heads move to the standby position (inside the side cover), it means the operation has ended successfully.

If the heads did not move, try switching off the main power, then again switching on the main power, followed by the sub power.

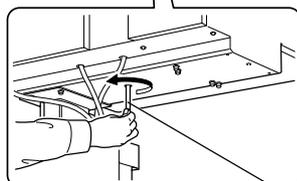
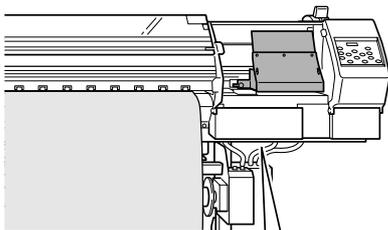
If the Heads Still Do Not Move

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

1. Switch off the main power and detach the right side cover.
2. Open the front cover.
3. Gently move the print heads by hand as far as the standby position.

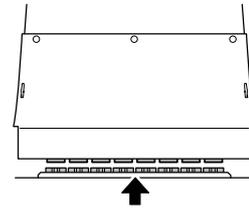


4. Insert the cap-unit tool into the hole at the bottom of the machine and turn gently. The cap unit rises.

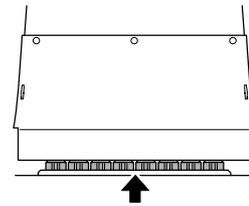


Cap-unit tool

5. Make the guides at the edges of the print heads line up with the print heads at the edges of the cap unit. Turn the tool further to bring the heads near the cap unit.



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



Make sure the print heads are capped tightly.

5-7 If 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 ■ ...]

Only a small amount of ink remains. Replace the cartridge indicated by the flashing number with a new cartridge.

[CHECK DRAIN BOTTLE]

This appears when a certain amount of discharged fluid collects in the drain bottle. To clear the message, press **ENTER**. If this screen appears, go to the [DRAIN BOTTLE] menu and discard the discharged fluid in the bottle.

☞ p 50 "Disposing of Discharged Ink"

[CLOSE THE COVER (RIGHT SIDE COVER/LEFT SIDE COVER/FRONT COVER)]

Close the side cover (right), the front cover, or both. For safety, the carriage does not operate while a cover is open.

[DO NOT USE MEDIA CLAMPS]

Make sure the media clamps have been removed. The media clamps cannot be used when the height of the print heads is set to "LOW." (Using them may cause malfunction.) After verifying, press **ENTER**.

[INSTALL DRAIN BOTTLE]

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

[REMOVE CARTRIDGE]

Remove the ink cartridge indicated by the flashing number. This message appears at times such as during head cleaning.

[REMOVE CL-LIQUID]

Remove the cleaning cartridge indicated by the flashing number. This message appears at times such as during head cleaning.

[SET CARTRIDGE]

Insert the ink cartridge indicated by the flashing number. This message appears at times such as during cartridge replacement.

[SET CL-LIQUID]

Insert the cleaning cartridge indicated by the flashing number. This message appears at times such as during cartridge replacement.

[SHEET NOT LOADED PRESS SETUP KEY]

Load media and press **SET UP**. This message appears when an attempt to perform a printing test was made while no media was loaded.

[TIME FOR MAINTENANCE]

It is time to clean the heads using the cleaning kit. After verifying, press **ENTER**.

☞ p 56 "Cleaning the Heads Using the Cleaning Kit"

[TIME FOR WIPER REPLACE]

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

☞ p 60 "Replacing the Wipers"

5-8 If 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 appear, contact your authorized Roland DG Corp. dealer.

[AVOIDING DRY-UP TURN OFF POWER]

The print heads were forced to standby position to prevent them from drying out.

Operation cannot be continued. Switch the sub power off, then back on. Opening the front cover while printing is in progress causes an emergency stop. Never allow the print heads to stand in this state.

[DATA ERROR CANCELING...]

Output was stopped because a problem was found in the data received.

Check for problems with the connector cable or the computer, then redo the operation, starting with reloading the media.

[INK SUPPLY SYSTEM FAIL]

Operation cannot be continued. Switch the sub power off, call your authorized Roland DG Corp. dealer.

[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 is loaded incorrectly.

Check how the media is threaded through the rollers. Also make sure the AUTO switches for the take-up unit is set correctly.

The media has jammed.

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

The media was pulled with excessive force.

Excessive tension was applied to the media, and additional action is necessary to recover from this state. First, move the loading lever to the rear and open the cover for the take-up unit. Adjust the media to create a small amount of slack, then switch on the sub power.

[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.

[SERVICE CALL xxx]

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.

[SET HEAD HEIGHT TO xxx]

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

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

[SHEET SET ERROR SET AGAIN]

[SET UP] was pressed even though no media is loaded.

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

Media that cannot be detected automatically was loaded.

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

☞ p 80 "Loading Media Whose Width Cannot Be Detected Automatically"

The positioning of the loaded media is displaced to the left.

Press any key to clear the error. Reload the media at the correct position, then press [SET UP].

The loaded media is too small.

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

The platen is dirty.

Press any key to clear the error. The machine cannot sense the width of the media because of soiling. Clean the platen.

[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 room temperature of installation location now. Bring the installed location to a temperature at which operation is possible (20 to 32°C) and allow the machine to come to room temperature, then turn on the power.

[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 room temperature of installation location now. Bring the installed location to a temperature at which operation is possible (20 to 32°C) and allow the machine to come to room temperature, then turn on the power.

[WRONG CARTRIDGE]

A cartridge that cannot be used was installed.

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

A cartridge was inserted with too much force.

Remove the cartridge to clear the error. Insert and remove cartridges slowly and gently, one at a time.

Chapter 6

Specifications

6-1 Usable Media

Conditions for Usable Media

Media width

28 to 74 inches (710 to 1879 mm)

Roll outer diameter (A)

Maximum 180 mm (7-1/16 inches)

Paper tube (core) inner diameter (B)

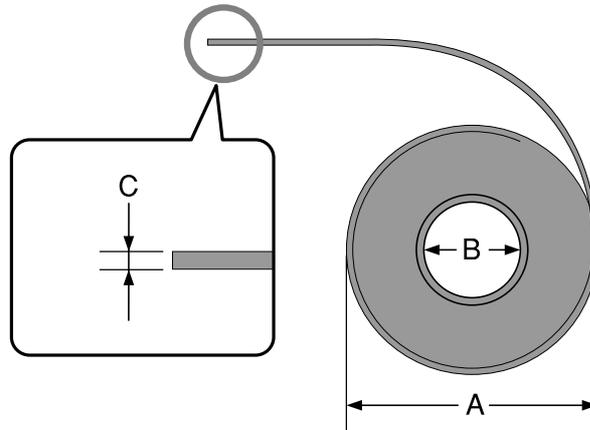
3 inches (76.2 mm) or 2 inches (50.8 mm)

Media thickness (C)

Maximum 1.0 mm (39 mil)

Roll weight

Maximum 20 kg (44 lb.)



Other conditions

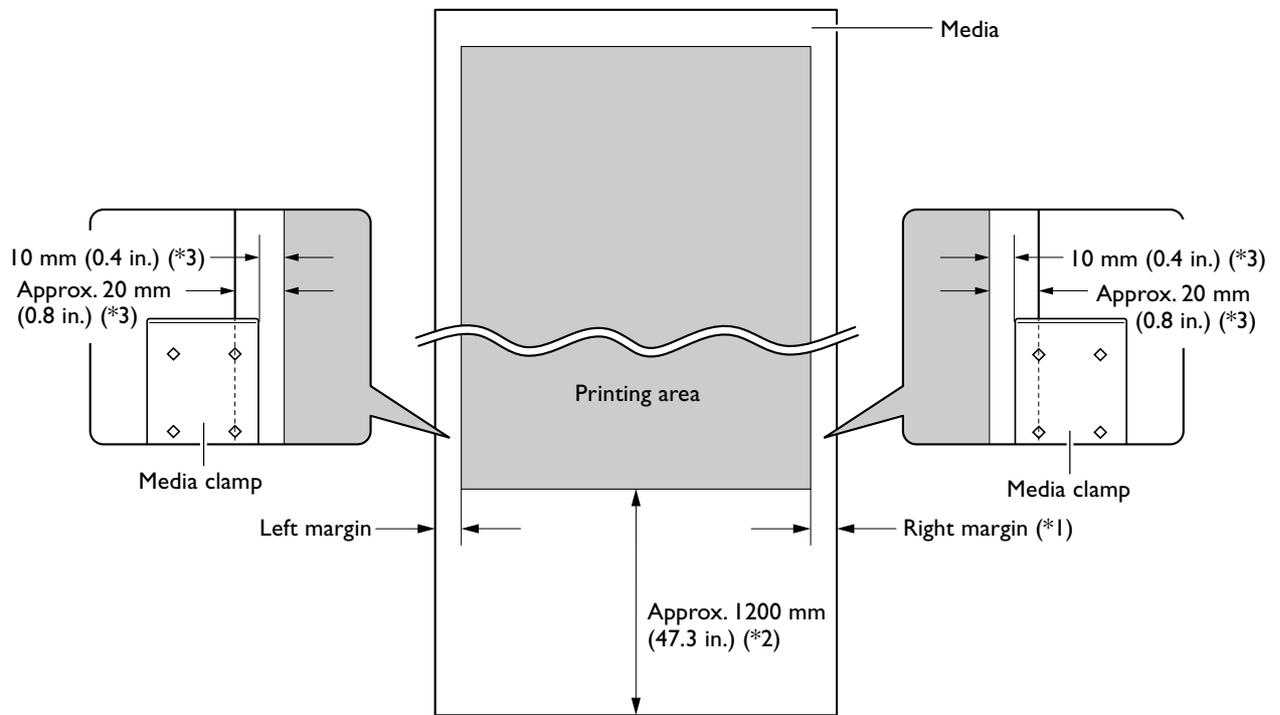
Media such as the following cannot be used.

- 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

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.

6-2 Printing Area

Printing Area and Margins



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

*2 Margin length required by the media take-up.

*3 Margin set automatically (default value; for media whose width is detectable)

6-3 Locations of the Power Rating and Serial Number Labels

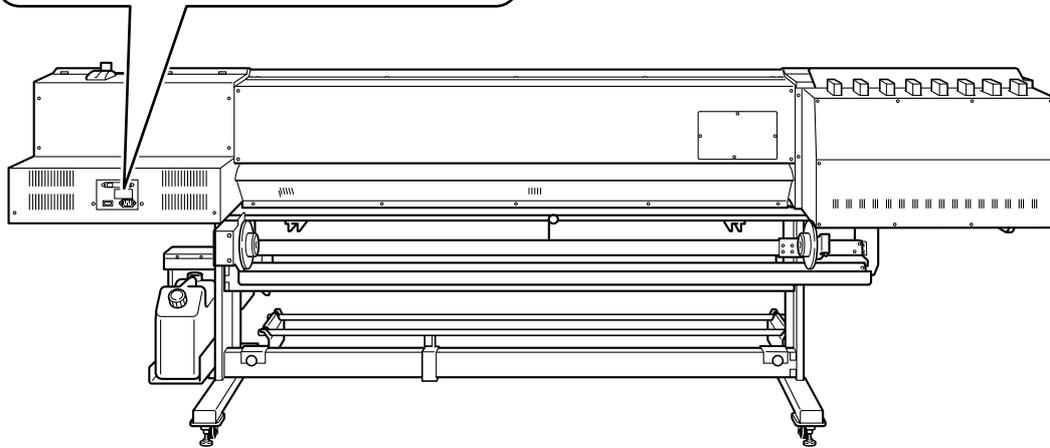
Printer

Serial Number

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

Power Rating

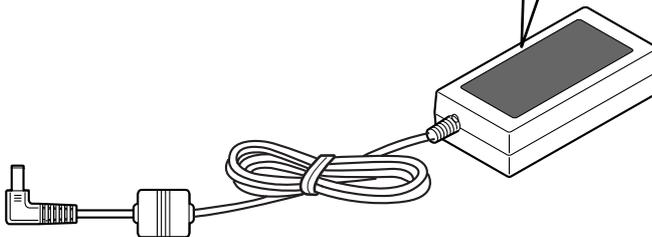
Use an electrical outlet that meets the requirements for voltage, frequency, and amperage given here.



Take-up unit

Power Rating

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



6-4 Specifications

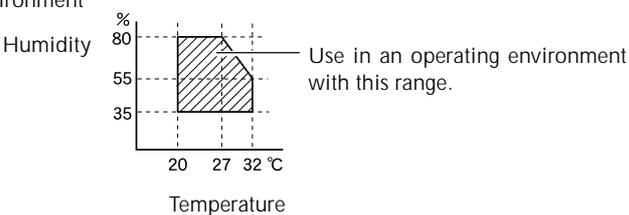
		FP-740
Printing method		Piezo ink-jet method
Acceptable media widths		710 to 1879 mm (28 to 74 in.)
Printing width (*1)		Maximum 1869 mm (73.6 in.)
Ink cartridges	Type	Exclusive Sublimation Ink cartridge
	Colors	Four colors (Cyan, magenta, yellow, and black)
Printing resolution (Printing dot resolution)		Maximum 720 dpi
Distance accuracy(*2)		Error of less than $\pm 0.3\%$ of distance traveled, or 0.3 mm, whichever is greater
Interface		Ethernet (10 BASE-T/100 BASE-TX, automatic switching)
Power-saving function		Automatic sleep
Power supply(*3)	Voltage and frequency	Printer : AC 100 to 240 V $\pm 10\%$, 50/60 Hz Take-up unit : AC 100 to 240 V $\pm 10\%$, 50/60 Hz
	Required power capacity	Printer unit : 2 A, Take-up unit : 0.1 A
Power consumption	During operation	Approx. 118 W
	Sleep mode	Approx. 55 W
Acoustic noise level	During operation	62 dB (A) or less (according to ISO 7779)
	During standby	40 dB (A) or less (according to ISO 7779)
Dimensions		3539 (W) x 758 (D) x 1307 (H) mm (139.4 (W) x 29.9 (D) x 51.5 (H) in.)
Weight		267 Kg (589 lb.)
Environment	Power on (*4)	Temperature: 20 to 32°C (68 to 89.6°F), humidity: 35 to 80% (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80% (no condensation)
Included items		Power cords, AC adapter, cable clamps, media reinforcement pipes, paper tube, tracking shafts, media flanges, stoppers, media clamps, drain bottle, replacement blade for separating knife, hexagonal wrenches, head-unit tool, software RIP, User's Manual, Setup Guide, Roland-PrintServer Network Settings Guide, Roland-PrintServer CD-ROM, cleaning kit,

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

*2
> At Roland PET film, print travel: 1 m
> Temperature: 25°C (77°F), humidity: 50%

*3
Two outlets required for printer and take-up unit.

*4
Environment



Use in an operating environment with this range.



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