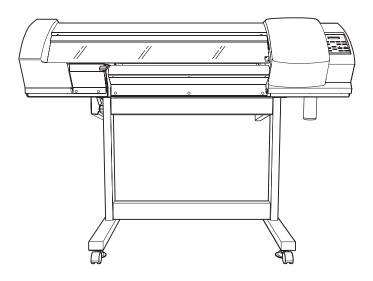






USER'S MANUAL



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.

Roland DG Corporation

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.

The I/O cables between this equipment and the computing device must be shielded.

For Canada

CLASS A

CLASSE A

NOTICE

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

AVIS

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

NOTICE

Grounding Instructions

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.

Operating Instructions

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

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

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

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

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

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

- For California

WARNING

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

For EU Countries

()

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

The authorized representative in the EU: Roland DG Corporation, German Office Halskestr.7 47877 Willich,Germany

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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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 \triangle WARNING and \triangle CAUTION Notices

	NG Used for instructions intended to alert the user to the risk of death or sever injury should the unit be used improperly.	
A 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 re- spect to the home and all its furnishings, as well to domestic animals or pets.	

About the Symbols

The \triangle 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 \bigcirc 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.

4

🗥 Incorrect operation may cause injury



Be sure to follow the operation procedures described in this manual. Failure to follow the procedures may cause sud-

den operation or the like of the machine, which may result in unexpected injury.



Never allow children near the machine. The machine includes locations and components that pose a danger to children, and major accident, including injury, blindness, or choking, may occur.



Do not disassemble, repair, or modify. Doing so may lead to fire or abnormal opera-

tion resulting in injury.



Unpacking, and installation must be carried out by four or more persons.

This machine weights approximately 130 kg (287 lb.) Tasks that require undue effort when performed by a small number of persons may result in injury.



Install in a level and stable location. Failure to do so may result in the unit tipping over, leading to injury.



Never climb or lean on the machine. The machine is not made to support a person. Climbing or leaning on the machine may move away components and cause in a slip or fall, re-



sulting in injury.

Use the joining screws to secure the unit to the stand.

Failure to do so may result in falling of the unit, leading to injury.



Use care to avoid pinching the fingers when placing the unit on the stand. Doing so may result in injury.



Release the caster locks for the stand before attempting to move.

Otherwise the unit may tip over and cause injury.

A Danger of fire, burns, or toxic gas emissions

AWARNING



This machine has high-temperature areas (platen and apron). Exercise caution to avoid fire or burns.



Never leave media loaded in the machine when printing is not being performed. The continued application of heat at a single location may cause fire or produce toxic gases. When printing is not being performed, switch off the power or remove any loaded media.



Never use media that cannot withstand the heat.

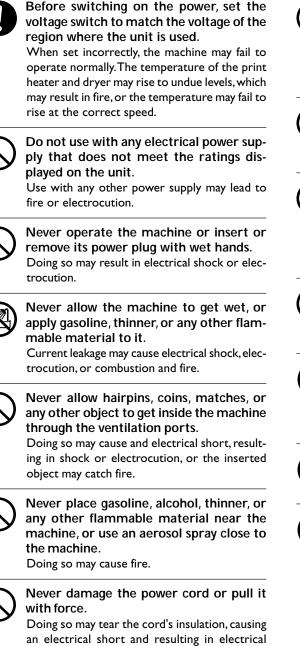
Doing so may result in fire or the release of toxic gases, or may degrade the media.



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

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

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



Never place any object on the power cord, bend the power cord using excessive force, or allow the power cord to become deformed.

If it becomes deformed, the deformed location may grow hot and cause fire.

Never use the machine with the power cord bound into a bundle or roll.

If the cord is in a bundle or roll, it may grow hot and cause fire.



Never use any power cord other than the power cord included with the machine. Also, never use a power strip or extension cord.

The power strip or extension cord may grow hot and cause fire.



Do not use with a damaged power cord or plug, or with a loose electrical outlet. Doing so may lead to fire, electrical shock, or electrocution.



When unplugging the electrical power cord from the power outlet, grasp the plug, not the cord.

Unplugging by pulling the cord may damage it, leading to fire, electrical shock, or electrocution.



Ground the unit with the ground wire. Failure to do so may result in risk of electrocution in the event of a mechanical problem.

In the event of an abnormal state (such as smoke or sparks, odor or burning or unusual noise), immediately unplug the power cord.

Failure to do so may result in fire, electrical shock, or electrocution. Immediately disconnect the power cord and contact your Roland DG Corp. service center.

shock, electrocution, or fire.

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

AWARNING

If you're using a model that uses ECO-SOL INK, never operate in locations such as those near an open flame or heater, or where sparking or static electricity may occur.

Ink or the like may ignite and cause fire.

 \bigcirc

If you're using a model that uses ECO-SOL INK, never place ink, cleaning liquid, or discharged fluid in any of the following locations.

- > Near open flame
- In a hot location, such as near a heater or on the machine's platen or apron
- Near bleach, chemicals, explosives, or the like

Doing so may cause fire.



Ensure adequate ventilation for the work area.

Odor from ink and the like may cause physical distress, or may cause to fire.



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



Store ink cartridges in a location out of the reach of children.

▲ In the Event of Ingestion or Physical Distress

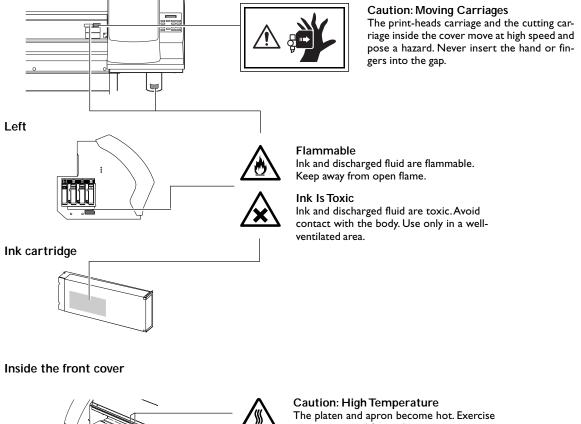
- > In the event of contact with the eyes, immediately flush with running water for at least 15 minutes. If eye irritation continues, seek treatment by a physician.
- > In the event of contact with skin, immediately wash with soap. If irritation or inflammation occur, seek treatment by a physician.
- 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.

A 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.

Front



caution to avoid fire or burns.

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.	
	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 \bigcirc avertit l'utilisateur de ce qu'il ne doit pas faire, ce qui est interdit. La chose spécifique à ne pas faire est indiquée par le dessin à l'intérieur du cercle. Le symbole à gauche signifie que l'appareil ne doit jamais être démonté.	
Le symbole Prévient l'utilisateur sur ce qu'il doit faire. La chose spécifique à faire est indiquée par le dessin à l'intérieur du cercle. Le symbole à gauche signifie que le fil électrique doit être débranché de la prise.	

▲ L'utilisation incorrecte peut causer des blessures



S'assurer de suivre les procédures d'utilisation décrites dans ce manuel.

Si les procédures indiquées ne sont pas suivies, le fonctionnement de l'appareil peut être déclenché soudainement, ce qui risque de causer des blessures.



Ne jamais laisser d'enfants s'approcher de l'appareil.

Des éléments et des surfaces de l'appareil présentent des risques pour les enfants. Il pourrait se produire un accident grave qui causerait des blessures, ou créerait un risque de cécité ou de suffocation.



Ne pas démonter, réparer ni modifier.

Démonter, réparer ou modifier l'appareil risque de provoquer un incendie ou de causer un fonctionnement anormal entraînant des blessures.



Le déballage, l'installation et le déplacement de l'appareil doivent être effectués par quatre personnes ou plus. Le poids de cet appareil est d'environ 130 kg (287 lb.) Les tâches qui exigent un effort trop grand si elles sont exécutées par un petit nombre de personnes peuvent être cause de blessures.



Installer sur une surface stable et de niveau.

Sinon, l'appareil risque de se renverser et de causer des blessures.



Ne jamais grimper ni s'appuyer sur l'appareil.

L'appareil n'est pas conçu 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.



Utiliser les vis fournies pour bien fixer l'appareil sur le support.

Le non-respect de cette consigne pourrait causer des défauts dans l'appareil entraînant des blessures.



Manipuler avec précaution pour éviter de se coincer les doigts lors de l'installation de l'appareil sur le support.

Une négligence à ce niveau pourrait provoquer des blessures.



Débloquer le mécanisme d'arrêt des roulettes du support avant de le déplacer. Sinon l'appareil pourrait se renverser et provoquer des blessures.

🕂 Risque d'incendie, de brûlures ou d'émissions de gaz toxiq

Des surfaces de cet appareil atteignent des températures élevées (éléments de chauffage et tablier). Prendre des précautions pour éviter un incendie ou des brûlures.



Ne jamais laisser de support dans l'appareil quand aucune impression n'est en cours.

L'application continue de chaleur au même endroit peut provoquer un incendie ou l'émission de gaz toxiques. Quand l'appareil n'est pas utilisé, couper l'alimentation ou retirer les supports qui y sont chargés. Ne jamais utiliser un support qui ne peut pas supporter la chaleur.

L'utilisation de supports qui ne supportent pas la chaleur peut causer un incendie, provoquer l'émission de gaz toxiques ou affecter le support.

Ne jamais utiliser les éléments de chauffe ni le tablier à des fins autres que celles pour lesquelles ils sont conçus, par exemple, ne pas les utiliser sécher des vêtements.

L'utilisation à ces fins risque de causer une surchauffe et de provoquer un incendie ou un accident.

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

Avant de mettre l'appareil sous tension, régler le sélecteur de tension sur la tension locale.

Le chauffage risque de ne pas fonctionner normalement si la tension n'est pas correctement sélectionnée. La température des éléments de chauffe et de séchage peut augmenter anormalement et provoquer un incendie, ou bien la température peut ne pas augmenter à la vitesse correcte.

Ne pas utiliser avec une source d'alimentation électrique non conforme à la norme indiquée sur l'appareil.

Utiliser l'appareil avec une autre source d'alimentation risque de provoquer un incendie ou de causer une électrocution.

Ne jamais utiliser l'appareil, insérer la prise dans le réceptacle ou l'en enlever si on a les mains mouillées.

Il y a risque de décharge électrique ou d'électrocution.



Ne jamais permettre que l'appareil soit mouillé; ne jamais y appliquer d'essence, de diluant ni aucun matériau inflammable. Une fuite de courant peut causer un choc électrique, l'électrocution ou la combustion et un incendie.



Ne jamais laisser des épingles à cheveux, des pièces de monnaie, des allumettes ni aucun autre objet pénétrer dans l'appareil par les orifices de ventilation.

Cela crée un risque de décharge électrique ou d'électrocution. En outre, les objets peuvent prendre feu.



Ne jamais placer de l'essence, du diluant ni aucun matériau inflammable près de l'appareil; ne jamais utiliser de produits en aérosol près de l'appareil.

Cela crée un risque d'incendie.

Ne jamais endommager le câble d'alimentation ni le tirer vigoureusement. Cela risque de déchirer l'isolant du câble et de causer un court-circuit, ce qui aurait comme résultat un choc électrique, l'électrocution ou un incendie.



Ne jamais placer d'objets sur le cordon d'alimentation, plier le câble d'alimentation en utilisant une force excessive ni laisser le câble d'alimentation se déformer.

Si le câble se déforme, la section affectée peut surchauffer et causer un incendie.



Ne jamais utiliser l'appareil si le câble d'alimentation est attaché ou enroulé.

S'il est attaché ou enroulé, il peut surchauffer et causer un incendie.

jamais utiliser Ne un cordon d'alimentation autre que celui qui est fourni avec l'appareil. Ne jamais non plus utiliser de bande d'alimentation électrique ni de rallonge.

La bande d'alimentation ou la rallonge peuvent surchauffer et causer un incendie.



Ne pas utiliser si le fil ou la fiche électriques sont endommagés; ne pas brancher dans une prise mal fixée.

Négliger de suivre cette consigne risque de provoquer un incendie ou decauser une décharge électrique ou une électrocution.



Pour débrancher l'appareil, saisir la fiche et non le fil électrique.

Tirer sur le fil peut l'endommager, ce qui risque de provoquer un incendie ou de causer une décharge électrique ou une électrocution.



Mettre l'appareil à la terre avec le fil de mise à la terre.

Ne pas respecter cette consigne peut créer un risque d'électrocution en cas de panne mécanique.



S'il se produit quoi que ce soit d'anormal (fumée, étincelles, odeur, combustion ou bruit inhabituel), débrancher immédiatement le câble d'alimentation. Le défaut de ce faire peut entraîner un incendie, un choc électrique ou l'électrocution. Débrancher immédiatement le câble d'alimentation et communiquer avec le Centre de services Roland DG.

▲ L'encre, les liquides nettoyants et les liquides usées sont inflammables et toxiques



Si l'appareil est un modèle qui utilise ECO-SOL INK, ne pas l'utiliser près d'une flamme nue, dans un endroit où se produisent des étincelles ou de l'électricité statique, ni dans un endroit où les températures sont élevées, par exemple à proximité d'un appareil de chauffage. L'encre ou les autres produits combustibles

peuvent s'enflammer et causer un incendie. La combustion de l'encre ou du liquide nettoyant peut créer un risque d'incendie.

Si l'appareil est un modèle qui utilise ECO-SOL INK, ne jamais placer d'encre, de liquide de nettoyage ou des liquides usés dans les endroits suivants :

- ➤ près d'une flamme nue
- dans un endroit chaud, par exemple près d'un appareil de chauffage, sur les éléments de chauffage ou de séchage de l'appareil;
- près de javellisants, de produits chimiques, d'explosifs ou d'autres produits semblables Cela crée un risque d'incendie.

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

L'odeur de l'encre et des autres produits peut causer es troubles physique ou provoquer un incendie.

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.



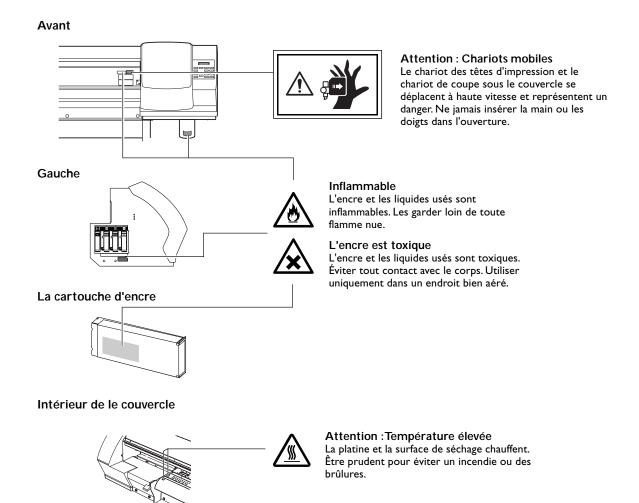
Entreposer les cartouches dans un endroit hors de la portée des enfants.

⚠ 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 Si la peau devient irritée ou inflammée, 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 les nausées persistent, consulter un médecin.

🕂 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.



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.
- > Never stand or sit on the stand or the machine.
- ≻Never place any object on the machine.

Install in a Suitable Location

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

The Print Heads Are Delicate

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

This Machine Becomes Hot

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

Ink cartridges

Ink Cartridges Come in Various Types

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

Never Subject to Impact or Attempt to Disassemble

- > Never drop or shake forcefully. The impact may rupture the internal pouch and cause the ink to leak.
- \succ 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

1-1 Machine Features

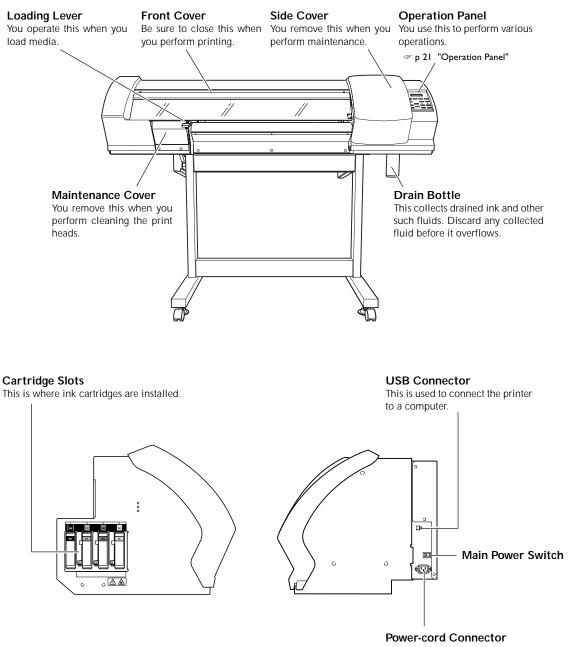
The machine is the "Print & Cut" machine that combines the two functions of high-quality printing and outline cutting in a single unit. This makes possible not only use as either a printer or a cutting machine, but also enables versatile uses such as performing printing followed immediately by cutting, without having to first remove the media from the machine.

The machine is provided with a crop-mark feature. This makes possible accurate alignment when you want to remove the media after printing, perform lamination or other processing, then load the media again to perform cutting.

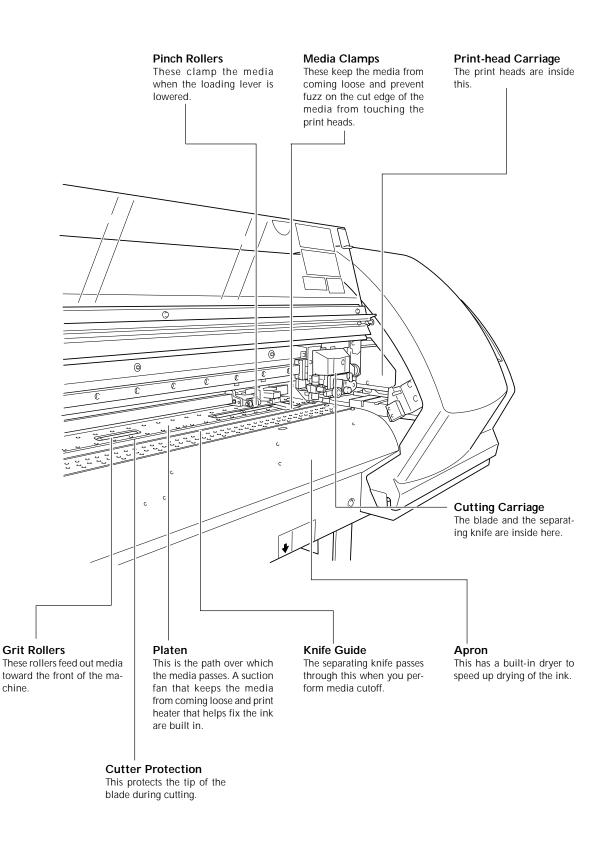
Also, a print heater and a dryer are built in. These help to fix and dry the ink, thereby enhancing work efficiency. The temperature setting for each can be preset to match the ambient environment and the media used.

With these features, the machine can accommodate a wide variety of uses, ranging from the creation of stickers and cut-out text and small-lot label printing to the production of panels, outdoor signs, and more.

Printer Unit

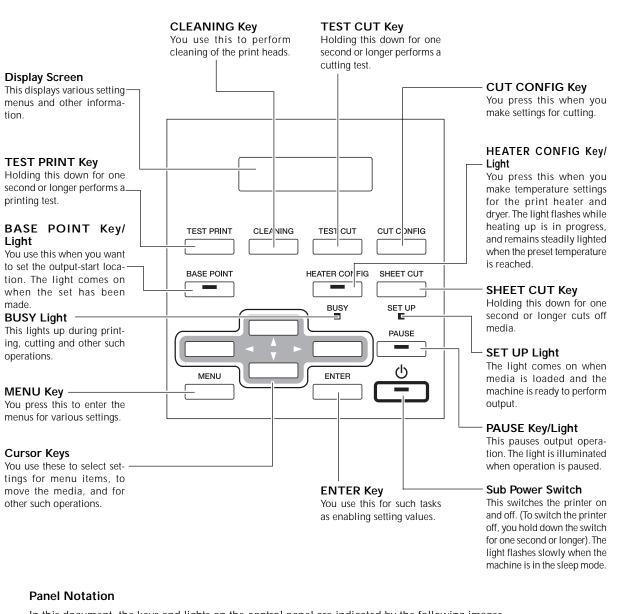


This supplies power to the printer.



20 Chapter 1 Introduction

Operation Panel



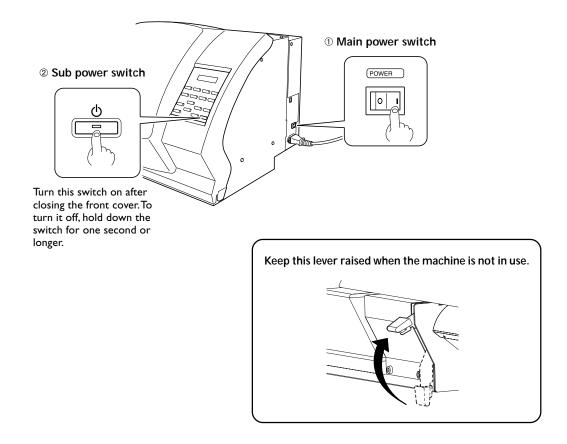
In this document, the keys and lights on the control panel are indicated by the following images.

MENU MENU Key HEATER CONFIG Key/Light CUT CONFIG Key SHEET CUT Key ENTER ENTER Key PAUSE PAUSE Key/Light TEST PRINT Key TEST CUT Key CLEANING CLEANING Key BASE POINT Key/Light

Chapter 2 Operation

Switching the Power On and Off

This machine has a main power switch and a sub power switch. Switch on both to use the machine. Whenever printing or cutting is finished, switch off the sub power. Also, raise the loading lever.



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 accidental switched off, immediately turn the power back on.

24 Chapter 2 Operation

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.

When the machine is in the sleep mode, the POWER light flashes slowly and the print heater and dryer stop. Using the operation 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 and prevent problems such as overheating, we recommend leaving the power-saving feature on and setting the activation time for the sleep mode to 30 minutes or less.

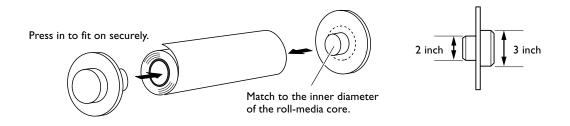
2-2 Loading and Cutting Off Media

How to Load Roll Media

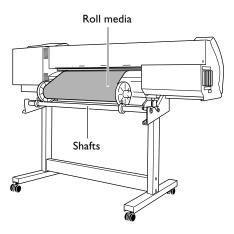
CAUTION When loading roll media, be sure to use the shafts. Otherwise the media may fall and cause injury.

1. Load the roll media.

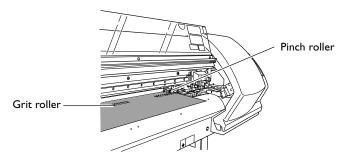
- Open the front cover.
- Attach the media flanges to the roll media.



3 Place the roll media on the shafts.



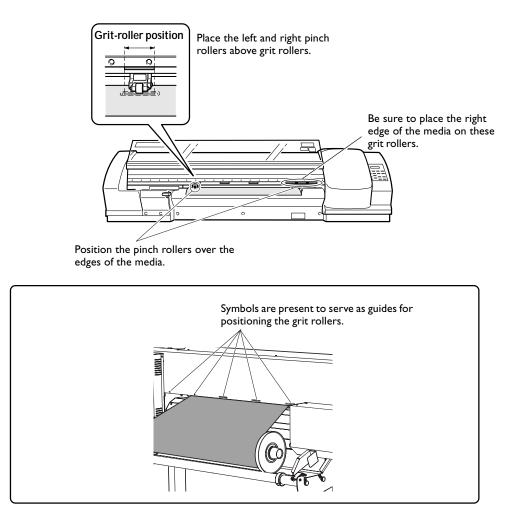
Pass the media between the pinch rollers and the grit rollers, bringing the end of the media as far as the platen.



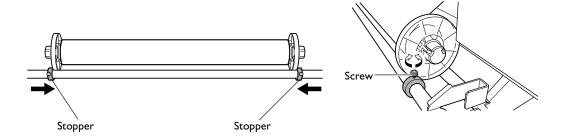
26 Chapter 2 Operation

2. Align the media.

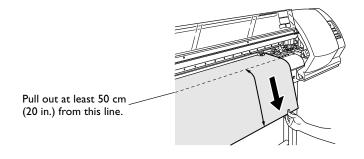
Position so that both edges of the media are aligned above the grit rollers, and move the pinch rollers to position them above the grit rollers.



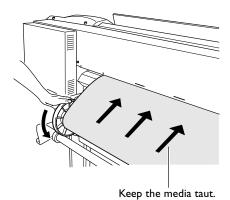
2 Secure the stoppers in place in alignment with the width of the media.

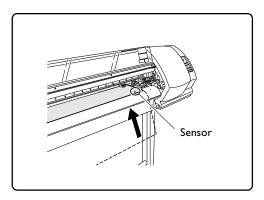


- ${\it 3.}$ Load the media so that it is without slack.
- Pull out the media.

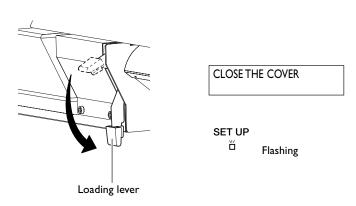


2 Take up the media until it is positioned where it can be detected by the sensor.





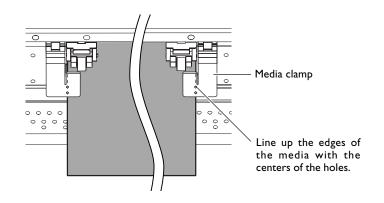
Output: Book the second sec



28 Chapter 2 Operation

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

Set the media clamps.



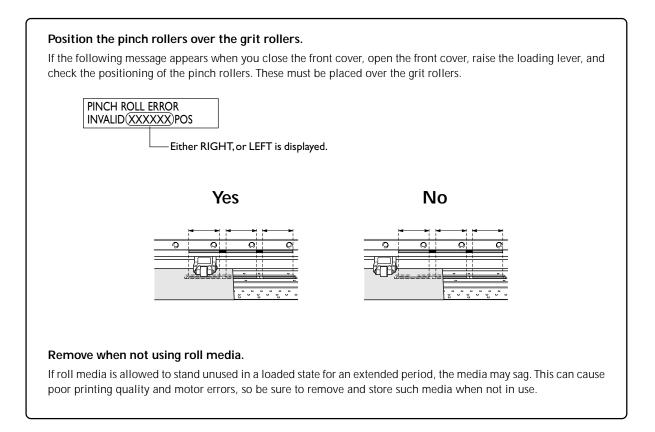
Olose the front cover.

The screen displays the printable width.

W 500mm

Important Note When Using the Media Clamps

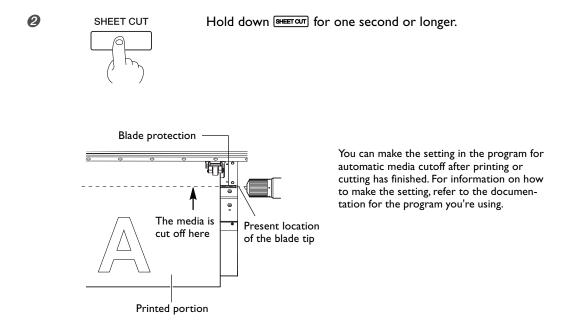
- > Set the media clamps at the correct locations. If they are not set at the correct locations, the media may catch or cause other problems that prevent successful printing.
- As printing proceeds, the media may move to the left or right and touch or come loose from the media clamps. After about 1 m (3 ft.) of media has been fed, check the positioning of the media clamps. If the media looks like it may come loose from the media clamps, adjust the positioning of the media clamps.
- When you cut off media while using the short media clamps, then depending on the media, it may come loose from the media clamps. After you cut off the media, check to make sure that the media has not come loose from the media clamps.



How to Cut Off Media

Procedure

1 Make sure the [SET UP] light lights up.



Important Notes on Using the Long Media Clamps

When you're using the long media clamps, be sure to make the setting to disable media cutoff. Otherwise interference with the separating knife may result in malfunction or damage to the machine. If you want to separate the media after printing has finished, be sure to first detach the long media clamps, then set the [MEDIA CLAMP] menu item to a setting other than "LONG."

🖙 p 73 "Printing Media That Warps Easily"

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.

When you're performing cutoff, never use the **__** to pull the media back.

Unless the end of the media has been pulled out to a location to the front of the platen, cutoff may not be performed smoothly.

What Are the Print Heater and Dryer?

Doing so may cause burns.

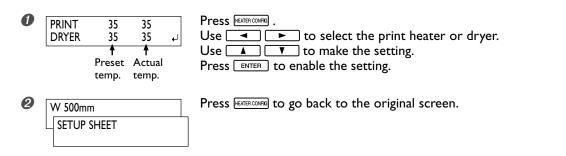
This machine is equipped with two devices for heating media. You use these mainly to improve ink adhesion and dry the ink. You can adjust the temperature settings to match the type of media and printing speed.

Print heater This heater is used r adhesion.	mainly to improve ink	
Dryer You use this to speed up drying of the ink.		
	Do not place any	potentially flammable object on the platen of

WARNING Do not place any potentially flammable object on the platen or apron while the print heater or dryer are in operation. Doing so may cause fire.
 CAUTION Do not touch the platen or apron while the print heater or dryer are in operation.

Temperature Settings

Procedure



At first, the print heater and dryer do not warm up to the preset temperature. (This is the factory-default setting.) When media is loaded correctly and the [SET UP] light comes on, the machine warms up to the preset temperature.

General Guide for the Preset Temperatures

The optimal temperature settings vary according to the type of media, differences in the print mode, and other factors. Use the following as a general guide and adjust accordingly.

General Guide for Adjustment

Print heater

You use this mainly to improve ink adhesion and inhibit smudging. If the ink forms lumps or smudges, raise the temperature. Note, however, that a temperature that is too high may degrade the media or cause it to wrinkle.

Dryer

When ink drying is poor, raise the temperature. Note, however, that a temperature that is too high may degrade the media or cause it to wrinkle.

The relationship between the print mode and temperature

If smudging or poor drying occur even after raising the temperature, try using a print mode offering higher quality. Conversely, when you want to use a faster print mode, raise the temperature.

Amount of ink

When you change the amount of ink using the settings for your software RIP, adjusting this may yield better results. If problems such as smudging persist even after raising the temperature, try reducing the amount of ink.

> When suggested settings for temperature, print mode, and other values are given, use the suggested settings.

Getting Ready to Receive Data from a Computer

When you have finished loading media and making the temperature settings for the print heater and dryer, then follow the steps below. This procedure enables the machine to receive data from the computer and perform output. Note, however, that when you want to perform only cutting, operation that differs from the following procedure is required.

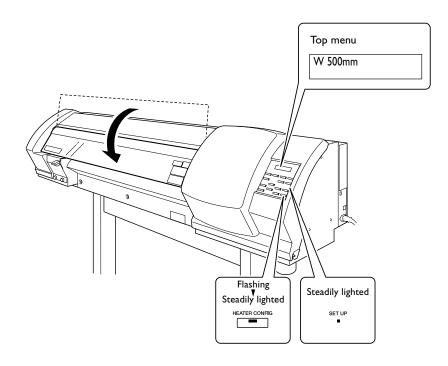
P 38 "Performing Cutting"

Procedure

- Olose the front cover (making the [SET UP] light come on).
- 2 Wait until HEATER CONFIG light stops flashing and stays steadily lit.

3 Make sure you are at the top menu.

If you are not at the top menu, press MENU.



Printing Is Not Possible in These Situations

- > 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 the [SET UP] light is dark.
- > Printing does not start until HEATER CONFIG light comes on.
- > Data from the computer is not accepted when you are not at the top menu.

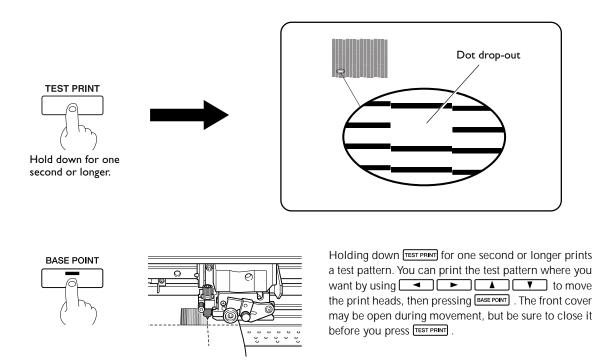
Points Which Must Be Observed

- > Be sure to set the media clamps. Otherwise the edges of the media may warp and catch on the print heads.
- > During printing, never touch the media that's already been discharged. Doing so may obstruct media feed or cause the media to rub against the heads, which may result in a paper jam or damage to the heads.

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



How to Perform Cleaning



Hold down for one second or longer.

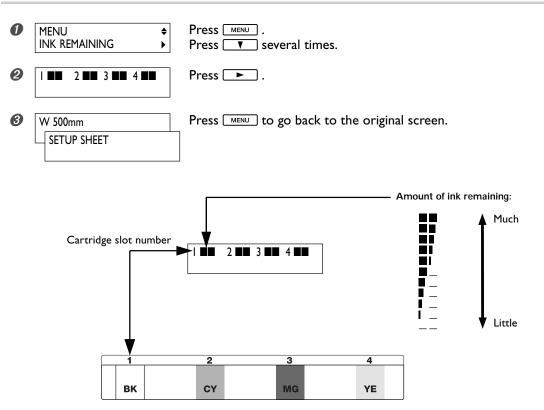
Closing the front cover and holding down **CLEANING** for one second or longer performs cleaning for the heads.

It may be a good idea to perform a printing test again to make sure the dot dropout 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 45 "When Head Cleaning Is Not Effective"

Checking for Remaining Ink

Procedure

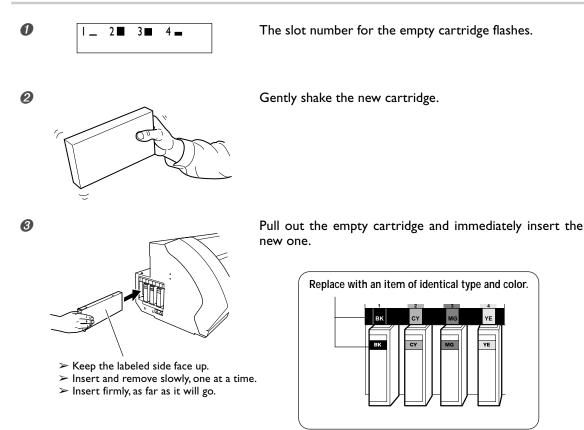


The display shows an approximate guide to the amount of remaining ink, which may differ somewhat from the actual amount remaining. Also, the displayed information may differ greatly from the actual amount remaining if you insert a partly used ink cartridge or change cartridges while the power is off.

If Ink Runs Out

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

Procedure



Important Notes on Replacing Cartridges

- > Be sure to replace with an item of identical type. Never mix items of different types.
- \succ Never allow the machine to stand with an ink cartridge removed.The print heads may become clogged.
- > Never insert or remove a partially used ink cartridge.
- > Never remove an ink cartridge suddenly while the printer is in operation.
- >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.

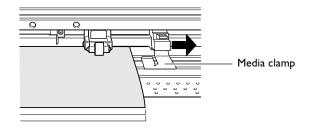
If you're using a model that uses ECO-SOL INK, never place ink, cleaning liquid, or discharged fluid in any of the following locations.

- Near open flame
- In a hot location, such as near a heater or on the machine's platen or apron
- · Near bleach, chemicals, explosives, or the like
- Doing so may cause fire.

To Perform Cutting

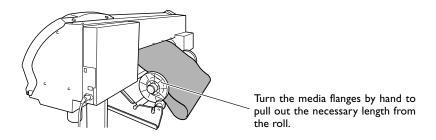
To perform cutting, carry out the procedure described below.

1 If the media clamps are set, move them to a location where they don't clamp the media.



When you're performing cutting only, then if you're cutting roll media, allow the media to hang down from the rear of the machine.

If cutting is started without doing this first, a motor error may occur or the roll may fall because the media is pulled with excessive force.



Important Notes on Cutting

ightarrowNever use the media clamps.You can also detach them when not in use.

- Imp 73 "Printing Media That Warps Easily"
- > When performing printing and cutting, dry ink sufficiently before you start cutting. Use your software RIP to make the setting for the drying time. For information on how to make the setting, refer to the documentation for the software RIP you're using. The drying time varies according to the media.

Hints and Tips for Cutting

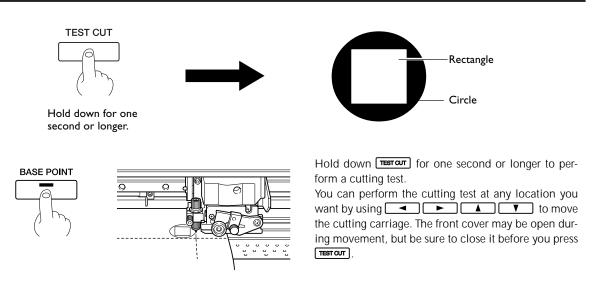
- If you're using the [PREFEED] feature, the media is automatically fed out and taken up again before cutting is performed. This makes it unnecessary to run out media to the rear of the machine before the operation.
 P 76 "Preventing Pulling of the Media with Undue Force When Performing Cutting Only"
- > When you're performing cutting, switching off the print heater and dryer and allowing the temperature to cool before performing cutting can yield results that are more stable.
- $\circledast p$ 79 "Switching Off the Print Heater and Dryer"
- > The end of the cap for the blade holder may scrape or damage the printed surface. If this happens, increase the amount of blade extension.

P 87 "Accurately Adjusting the Cutting-in Amount"

Performing a Cutting Test

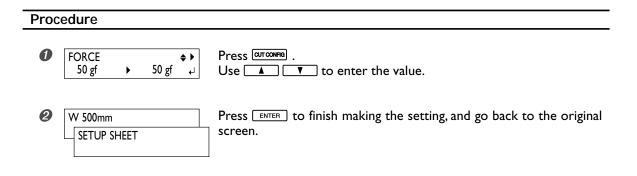
For high-quality cutting, then before you perform actual cutting, we recommend carrying out a cutting test to check the cutting quality for the media.

Performing a Cutting Test



Peel off the cut shapes to verify the cutting quality. If two shapes peel off together, make the setting for blade force.

Making the Setting for Blade Force



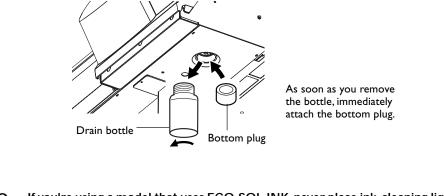
Pressing **Curcome** enters the cutting configuration menu. You can also make the settings for other cutting conditions in addition to the blade force. Refer to the following pages.

P 85 "Fine-tuning the Cutting Conditions"

Chapter 3 Maintenance and Adjustment

Disposing of Discharged Ink

The drain bottle collects discharged fluid. Dispose of collected material before the bottle becomes full. Switch off the sub power, then remove the bottle, being careful not to spill its contents.



▲ WARNING If you're using a model that uses ECO-SOL INK, never place ink, cleaning liquid, or discharged fluid in any of the following locations.
 > Near open flame
 > In a hot location, such as near a heater or on the machine's platen or apron
 > Near bleach, chemicals, explosives, or the like Doing so may cause fire.
 ▲ CAUTION Before carrying out operations, switch off the power.

Operation of the machine may cause discharged ink to come out of the drain bottle. Discharged fluid may get on the hands or spill and soil the floor.

CAUTION To store discharged fluid temporarily, place it in the included drain bottle or in a durable sealed container such as a metal can or polyethylene tank, and cap tightly. Any spillage or vapor leakage make cause fire, odor, or physical distress.

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

Discharged fluid contains ingredients that are toxic.

If you're using ECO-SOL INK, then the discharged fluid is also flammable. 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.

Ø

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.

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

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

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

- > 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 use a solvent such as thinner or benzine.
- > 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 35 "Printing Test and Cleaning"
- P 45 "When Head Cleaning Is Not Effective"

Periodic Care and Maintenance

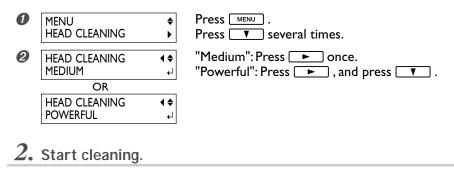
If problems such as dot drop-out occur frequently and are not corrected by the machine's head-cleaning feature, clean the heads using the cleaning kit. Such cleaning can be effective when carried out periodically, according to the frequency of use.

- ${}^{\odot\!\!\!\!\odot\!\!\!}$ p 46 "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.

Performing More Powerful Cleaning

When the problems such as dot drop-out are not cleared up by the cleaning you perform by pressing **CLEANING** (normal cleaning), try the more forceful "medium cleaning" or the even more forceful "powerful cleaning." Stronger cleaning uses up progressively more ink, and if performed too often it can damage the print heads themselves. Never carry out these cleaning procedures more often than necessary.





Press ENTER .

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 46 "Cleaning the Heads Using the Cleaning Kit"

When the Cleaning Kit Becomes Necessary

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.

- ➢ If you use up the cleaning kit, purchase a new one from your authorized Roland DG Corp. dealer or Roland DG Corp. service center.
- 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.

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 side covers, and press ENTER . When the head-protection operation finishes, switch off the power and 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.
- > Take care not to drop the covers when removing them. If dropped, the impact may cause it to break.

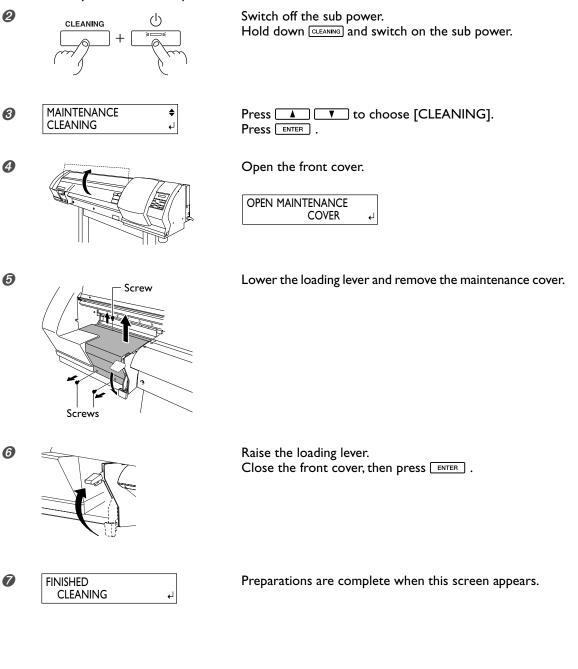
CAUTION Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions.

Sudden movement of the machine may cause injury.

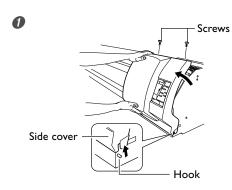
46 Chapter 3 Maintenance and Adjustment

${\it 1.}$ Change to the print-head manual-cleaning mode.

1 Remove any media from the platen.

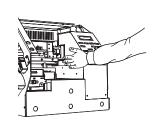


2. Remove the side cover.



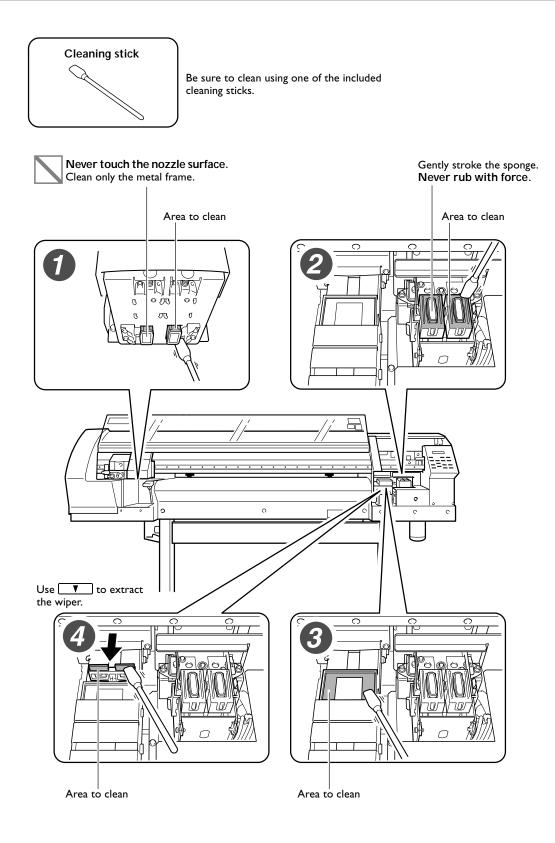
Open the front cover, and remove the side cover.

2



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

 ${\it 3.}$ Clean using the cleaning stick. Be especially careful to clean away any fibrous dust (lint).



4. Reattach the covers and quit the manual-cleaning mode. 0 Attach the side cover. Screws Side cover Hook 0 Press ENTER . CLOSE MAINTE-NANCE COVER After finishing cleaning, the following screen appears. ₽ 8 Lower the loading lever and attach the maintenance cover. Screw Screws 4 Raise the loading lever. **O** Close the front cover. Press ENTER . The sub power is switched off. 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.

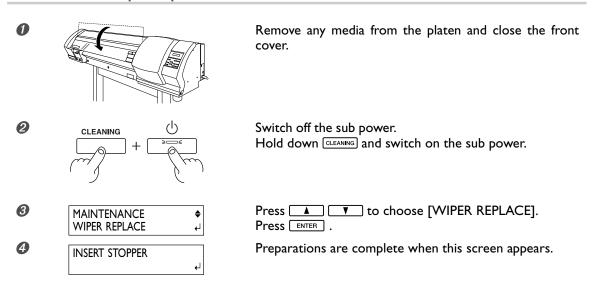
Replacing the Wipers



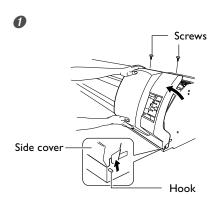
The wipers are components that you use when cleaning the print heads. When the screen displays a message like the one shown, it means the items need to be replaced. Replace with new items.

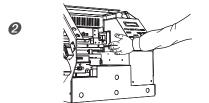
CAUTION Be sure to perform operations as specified by these instructions, and never touch any area not specified in the instructions. Sudden movement of the machine may cause injury.

1. Enter the wiper replacement mode.



2. Remove the side cover.

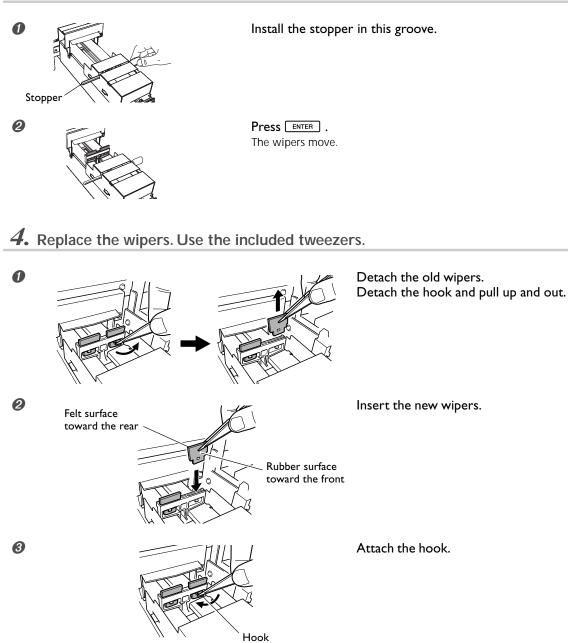




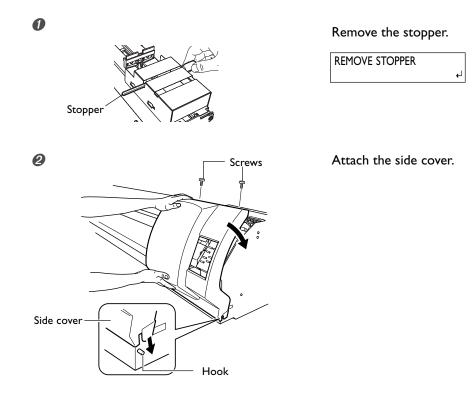
Remove the side cover.

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

 ${\it 3.}$ Attach a stopper. For the stopper, use a cleaning stick or the like.



5. Remove the stopper and reattach the side cover, and quit the wiper replacement mode.



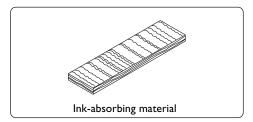
3 Press ENTER .

After the processing to quit the wiper replacement mode ends, the sub power is switched off.

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

Replacing the Ink-Absorbing Material

TIME FOR SPONGE REPLACE + If the screen shown in the figure appears, replace the ink-absorbing material with a new one.



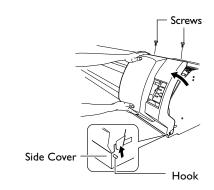
Important Notes on This Procedure

- > Wear gloves when replacing the ink-absorbing material.
- > If any ink gets on your hands or clothing, wash it off as soon as possible.
- > Dispose of used absorbent material in accordance with your local laws.

Procedure

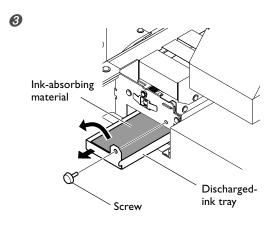
0

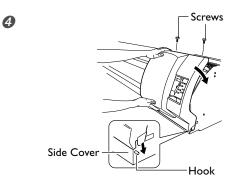
1 Switch off the sub power and the main power.



Remove the side cover.

54 Chapter 3 Maintenance and Adjustment





TIME FOR

Pull out the discharged-ink tray and replace the absorbent material.

Secure the discharged-ink tray in place and reattach the side cover.

Switch on the main power and the sub power. The screen shown in the figure appears.

6

6

W 500mm SETUP SHEET

SPONGE REPLACE

₽

Press ENTER .

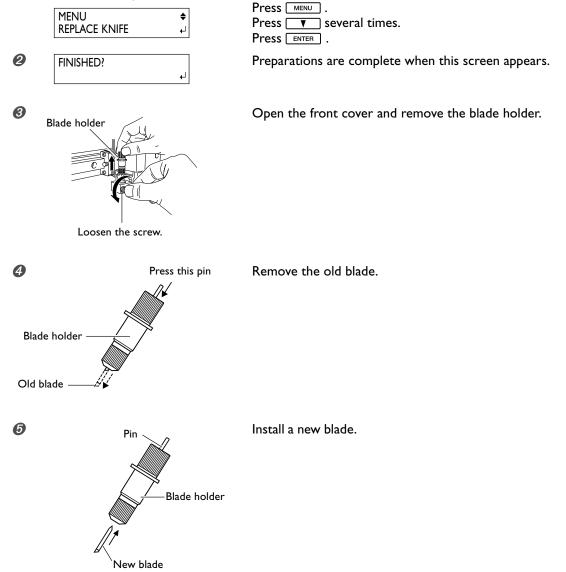
Replacing the Blade

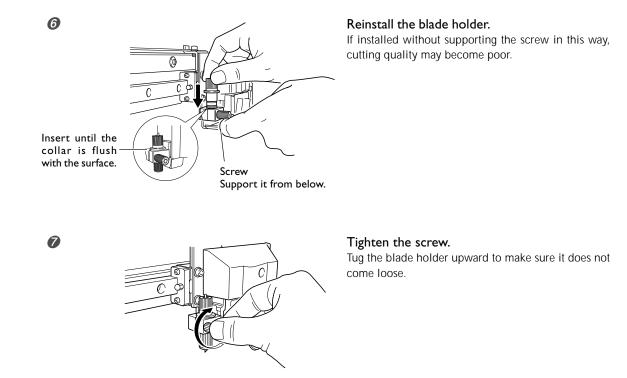
If the blade becomes dull, replace it with the included replacement blade.

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.
Do not touch the tip of the blade with your fingers. Doing so may result in injury.



1 Enter the blade replacement mode.





⁽³⁾ Close the front cover, and press ENTER.

Replacing the Separating Knife If the separating knife becomes dull, replace it with the included replacement blade. 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. Do not touch the tip of the separating knife with your fingers. Doing so may result in injury. Procedure Enter the blade replacement mode. Press MENU . MENU ۲ Press veveral times. **REPLACE KNIFE** ₊ Press ENTER . 0 Preparations are complete when this screen appears. FINISHED? 8 Open the front cover, and remove the component shown in the figure. Cutting carriage 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. 4 Install a new knife. Magnet The knife is secured in place by the magnet. Positioning groove 6 Slowly insert it into the groove. 6 Tighten the screw. Take care to ensure that the knife does not slip out of position at this time.

Close the front cover, and press ENTER .

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.

** The Setup Guide also describes what to do when the machine will be out of use for a prolonged period. Be sure to refer to it as well.

Chapter 4 Feature Reference

Canceling Printing Before It Finishes

Procedure

- Press PAUSE .
- Hold down PAUSE for one second or longer.
- 3 Stop sending printing data from the computer.

Description

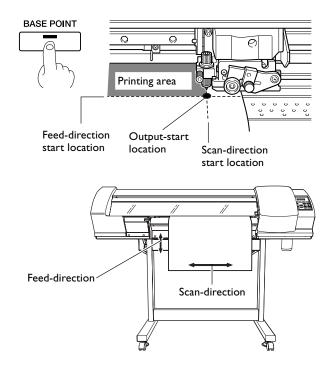
PAUSE pauses printing or cutting. Pressing **PAUSE** a second time here resumes output, but a horizontal stripe is produced at the location where printing was stopped. We do not recommend resuming printing.

Setting the Output-start Location

Procedure

Use < > to move the cutting carriage. Align the center of the blade with the new output-start location.

2 Press BASE POINT .



Description

You can use **EASE POINT** to set the output-start location anywhere you want. Note, however that this setting must be made for each individual page. When the position has been set, the **EASE POINT** light comes on. Also, the screen displays the printable width at the set position.

This feature is also available when you're printing or cutting 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 Optimizing Printing or Cutting to Match Media Thickness

Correcting for Misalignment in Bidirectional Printing

Procedure

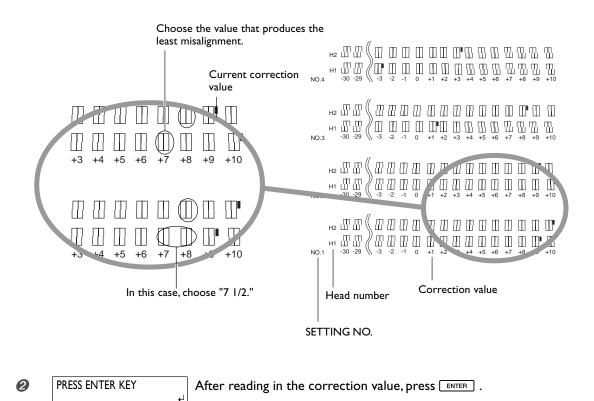
1. Print a test pattern.



ADJUST BI-DIR TEST PRINT ↓ Press ► . Press ENTER to start printing.

2. Read the correction values from the test pattern.

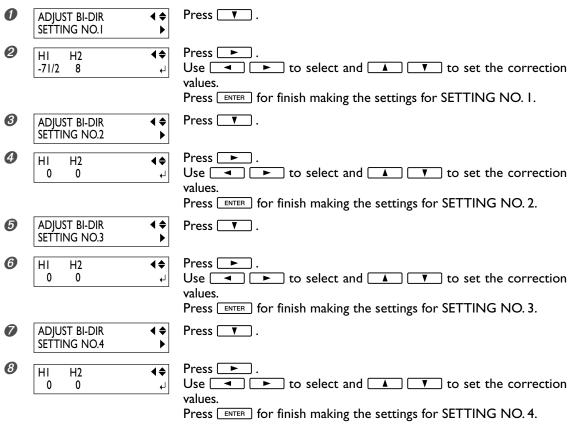
Read the correction values.



64 Chapter 4 Feature Reference

3. Enter the correction values that you read.

Enter correction values H1 and H2 for each setting number (SETTING NO. 1 through 4), for a total of 8 correction values.



4. Go back to the original screen.

W 500mm

Press MENU to go back to the original screen.

Description

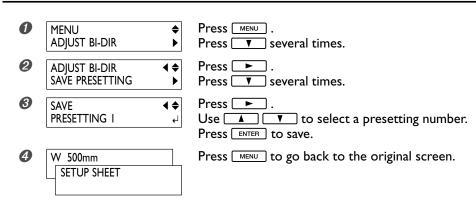
The bidirectional-printing mode (in which the heads perform printing during both their outbound pass and return pass) offers the advantage of being fast, but subtle misalignment occurs between the outbound and return passes. The procedure to correct this and eliminate misalignment is bidirectional correction. 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.

Redoing correction every time you change the media is extremely troublesome. You can take correction values that you have acquired and save them in the machine's memory for easy access whenever they are needed.

P 66 "Saving Bidirectional Correction Values", p 66 "Loading Bidirectional Correction Values"

Saving Bidirectional Correction Values

Procedure



Description

This saves the current correction values in memory. You can a total of eight groups of settings in memories 1 through 8. Overwriting a memory deletes any old correction values it contains.

Loading Bidirectional Correction Values

Procedure

0	MENU ADJUST BI-DIR ►	Press MENU . Press T several times.
2	ADJUST BI-DIR LOAD PRESETTING ►	Press 🕒 . Press 🔽 several times.
8	LOAD	Press . Use I to select a presetting number. Press ENTER to load.
4	W 500mm SETUP SHEET	Press MENU to go back to the original screen.

Description

This loads correction values saved in memory. You can select any memory from 1 to 8. Note that loading values from memory erases any correction values that have not been saved.

66 Chapter 4 Feature Reference

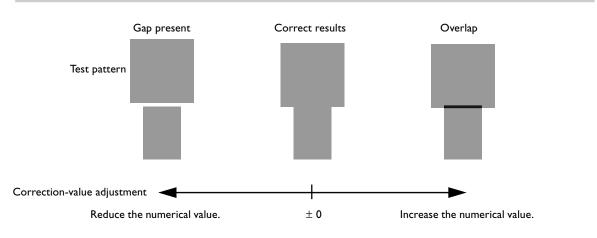
Performing Feed Correction to Alleviate Horizontal Bands and the Like

Procedure

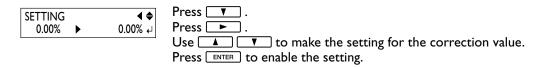
I. Print a test pattern. *I*. Press MENU *I*. Press MENU .



2. Check the test pattern you printed.



3. Enter the correction value.



4. Go back to the original screen.

W 500mm Press MENU to go back to the original screen.

Description

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

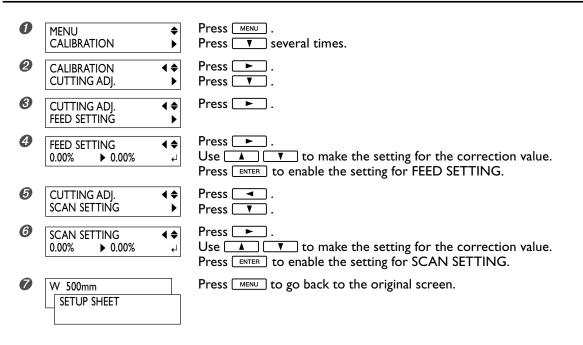
Note, however, that you can also make this setting on the computer (by, for example, choosing the media type in the software RIP you are using). When you want to make the setting on the printer, without changing any settings on the computer. When you have made the setting on the computer, the computer's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

Default Setting

[CALIBRATION] : 0.00%

Performing Distance Correction During Cutting

Procedure



Description

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

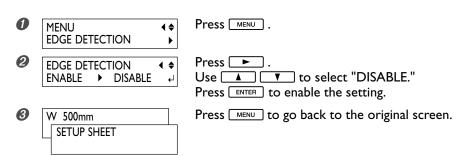
When performing printing and cutting, however, be sure to set this to "0.00." Doing otherwise may result in misalignment of the printing results and the cutting results.

Default Setting

[FEED SETTING] : 0.00% [SCAN SETTING] : 0.00%

Using Transparent Media

Procedure



Description

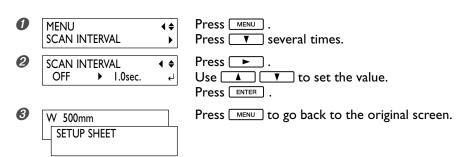
The machine automatically senses the leading edge and trailing edge of opaque media, but cannot sense transparent media. In this case, disable this sensing feature. When printing transparent media, ensure a margin of 80 mm (3-3/16 in.) or more from the leading edge of the media to the start position for printing or cutting.

Default Setting

[EDGE DETECTION] : ENABLE

Printing Hard-to-dry Media

Procedure



70 Chapter 4 Feature Reference

Description

You use this when ink dries poorly even when the print heater and dryer are used. 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

Speeding Up Printing for Narrow Media

Procedure

0	MENU (\$ FULL WIDTH S	Press MENU . Press V several times.
0	FULL WIDTH S	Press . Use I to select "DISABLE." Press ENTER to enable the setting.
3	W 500mm SETUP SHEET	Press MENU 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. Because the media moves more quickly, the effectiveness of the print heater and dryer also changes. It may be necessary to change the preset temperatures.

"DISABLE" 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.

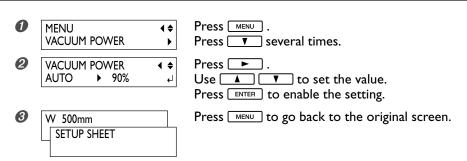
"ENABLE" makes the speed of media movement constant at all times.

Default Setting

[FULL WIDTH S] : ENABLE

Preventing Media from Coming Loose

Procedure



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.

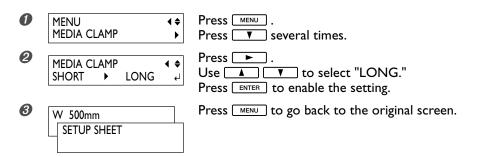
Default Setting

[VACUUM POWER] : AUTO

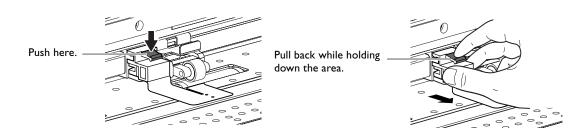
Printing Media That Warps Easily

Procedure

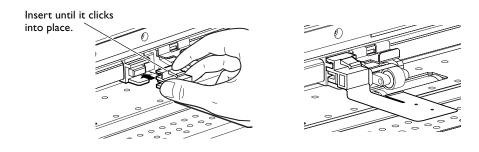
1. Change the setting for the [MEDIA CLAMP] menu item to "LONG."



- 2. Replace the short media clamps with the long ones.
- Remove the short media clamps.



Attach the long media clamps.



Description

When you want to hold the media in place more securely, such as when you're printing media that warps easily, use the long media clamps to secure the edges of the media in place.

Note that when you're attaching the long media clamps, be sure to make the setting described above so that the media-cutoff operation cannot be performed. Performing media cutoff with the long media clamps installed may cause the long media clamps to touch the separating knife, resulting in damage or malfunction.

When the [MEDIA CLAMP] menu item is set to "LONG," media cutoff is not performed when a media-cutoff command is sent from the computer, even when you press **SHEETCUT**.

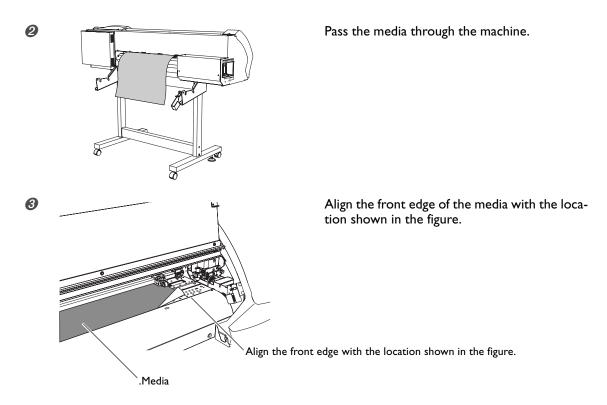
How to Load Sheet Media

When loading sheet media, such as standard-size media, be sure to carry out the following procedure.

Procedure

Remove both shafts.

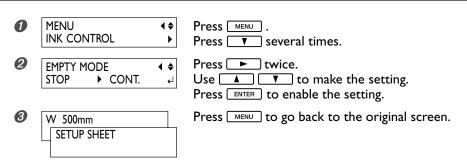
If roll media is loaded, then remove the media first.



- Output Description Control Control
- **1** If you're performing printing, set the media clamps.
- 6 Close the front cover.

Determining What Happens When Ink Runs Out

Procedure



Description

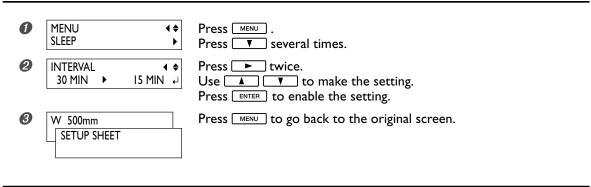
This lets you change, according to your purpose, the operation that takes place when an ink cartridge is empty. "STOP" immediately pauses operation when a cartridge becomes empty. Because pausing printing in progress may make colors uneven, it is best to ensure a sufficient amount of remaining ink before you begin printing. "CONT." (continue) is a mode in which operation is not automatically stopped. When a cartridge becomes empty, a warning beep sounds, but printing does not stop. (However, operation stops when printing of the current page ends.) To replace the cartridge, you must either wait until printing ends or press **PAUSE** to pause printing. Note that operation does not stop even if ink runs out completely.

Default Setting

[EMPTY MODE] : STOP

Setting the Interval until Activation of the Sleep Mode

Procedure



Default Setting

[INTERVAL] : 30 min

Deactivating the Sleep Mode

Proc	edure	
0	MENU (SLEEP)	Press MENU . Press V several times.
2	SETTING	Press . Press . Press . Use . Use
3	W 500mm SETUP SHEET	Press MENU to go back to the original screen

Default Setting

[SETTING] : ENABLE

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

Procedure

0	MENU (¢ PREFEED)	Press MENU . Press V several times.
2	PREFEED	Press . Use I to select "ENABLE." Press ENTER to enable the setting.
0	W 500mm SETUP SHEET	Press MENU to go back to the original screen.

Description

When you're performing cutting only, it may be convenient to set this feature to "ENABLE." This feeds out media according to the size of the data sent from the computer before performing cutting. This makes it unnecessary to turn the media flanges by hand to feed out media every time you perform cutting. Note, however, that this feeds out media even when you're performing printing only, so set it to "DISABLE" when not needed. When [PREFEED] is set to "ENABLE," set [EDGE DETECTION] to "ENABLE."

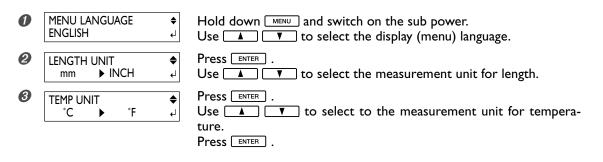
P 70 "Using Transparent Media"

Default Setting

[PREFEED] : DISABLE

Changing the Menu Language and the Units of Measurement

Procedure



Description

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

Default Setting

[LANGUAGE] : ENGLISH [LENGTH UNIT] : mm [TEMP. UNIT] : °C

Returning All Settings to Their Initial Values

Procedure

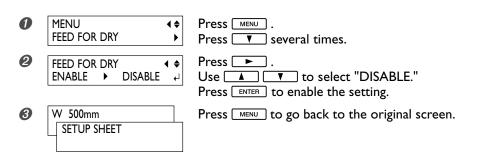
 MENU
 ◆
 Press MENU
 .

 FACTORY DEFAULT
 ↓
 Press ▲
 several times.

 Press ENTER
 to execute.

Stopping Media Feed After Printing

Procedure



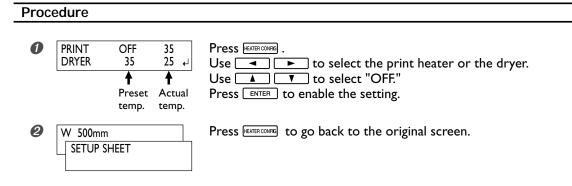
Description

Under the factory-default settings, after printing has finished the machine performs feed to position the trailing edge of the media above the dryer, then dries the ink. The machine then feeds or takes up the media to move it to the next output-start location, then stops. Setting this to "DISABLE" eliminates such media feed or take-up operation after printing.

Default Setting

[FEED FOR DRY] : ENABLE

Switching Off the Print Heater and Dryer



Description

This menu is used to make the temperature settings for the print heater and dryer, and you can also use it to turn these off. When set to "OFF", the print heater and dryer do not operate at all.

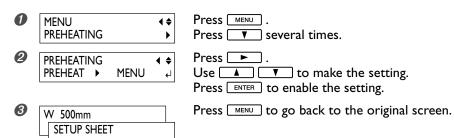
Note, however, that you can also make this setting on the computer. When you have made the setting on the computer, the computer's setting is used and the printer's setting is ignored.

Default Setting

[PRINT] (print heater) : 37°C (98°F) [DRYER] (dryer) : 40°C (104°F)

Determining How the Print Heater and Dryer Operate

Procedure



Description

This feature lowers the temperature of the print heater and dryer when the [SET UP] light is dark. "MENU" does not lower the temperature even when the [SET UP] light is dark. "PREHEAT" lowers the temperature to a fixed temperature when the [SET UP] light is dark. "OFF" switches off the print heater and dryer when the [SET UP] light is dark.

Default Setting

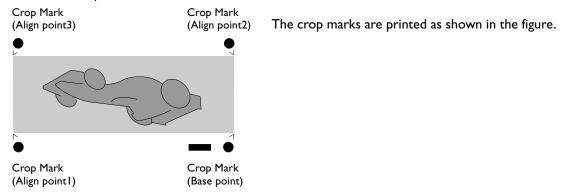
[PREHEATING] : PREHEAT

To Perform Printing and Cutting Separately

When you remove printed media and then reload it and perform cutting, you carry out alignment to prevent misalignment of the printing results and the cut lines. You do this at times such as when, for example, you perform lamination or other processing after printing, then reload the media and perform cutting. At such times, you perform printing with crop marks. You can perform automatic alignment with detection of the printed crop marks when you perform cutting.

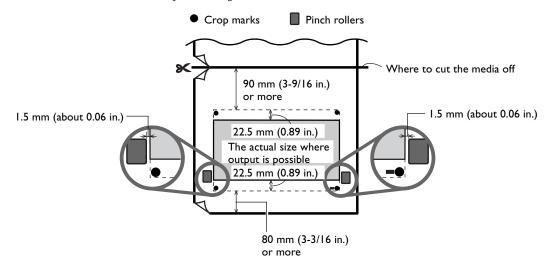
Printing with Crop Marks

Use your software RIP to make the settings for printing crop marks. For information on how to make the setting, refer to the documentation for the software RIP you're using. Alignment marks and symbols drawn using a graphics program cannot be used as crop marks.



Media Sizes Allowing Automatic Crop Mark Detection

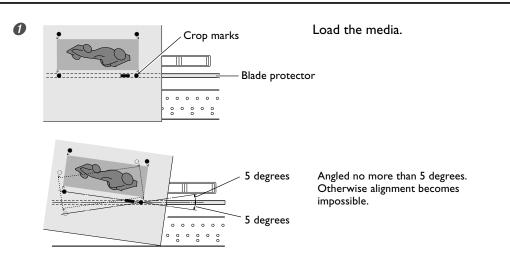
When you are printing with crop marks, set a margin of at least 90 mm (3-9/16 in.) before the next print-start position. You can set the margin value with the software you're using. For information on how to make the setting, refer to the documentation for the software RIP you're using.



Aligning Automatically and Cutting

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

Procedure



Ø Send the cutting data.

Alignment is performed automatically, then cutting starts.

If Automatic Alignment Cannot Be Performed

If the machine fails to detect the crop marks, the screen shown in the figure appears and operation stops.

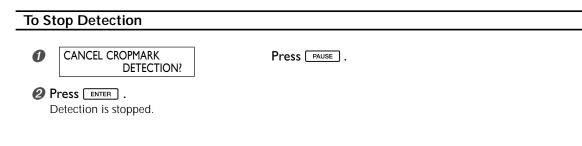
If this happens, press **ENTER**, then take action as follows.

Reload the media, then send the data again.

If this does not resolve the problem, then perform alignment manually. P 83 "Aligning Manually and Cutting"

If the crop marks cannot be detected easily because of the effects of media warping or the like, then perform alignment manually.

When you want to perform automatic alignment with lengthy media, we recommend performing output with the data separated into sizes that are as short as possible. With large sizes, error due to warping and the like increases, making smooth detection impossible.



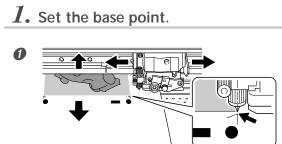
Aligning Manually and Cutting

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

Press BASE POINT .

Procedure

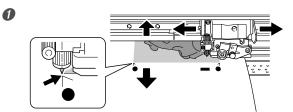
0



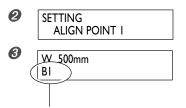
Use \blacktriangle \checkmark \checkmark \checkmark to align the center of the blade with the location shown in the figure.



W 500mm B



Use \blacktriangle \checkmark \checkmark \checkmark \checkmark to align the center of the blade with the location shown in the figure.



This indicates that the base point and align point I have been set. Hold down **EASE POINT** for one second or longer. The number of the align point you set is automatically determined.

Press ENTER .

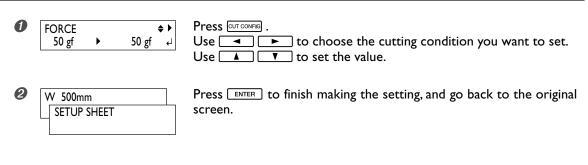
- A Repeat steps I through 3 to specify other align points as required.
- **6** Send the cutting data and perform cutting.

About Align Points

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

Fine-tuning the Cutting Conditions

Procedure



Description

This enables you to check and verify the settings for the cutting conditions using cutting-test results. @ p 39 "Performing a Cutting Test"

[FORCE]:

This sets the force (pressure) of the blade.

[SPEED]:

This sets the speed of cutting.

[OFFSET]:

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

[UP-SPEED]:

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

Evaluating the Results of a Cutting Test

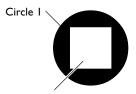
Check the shape of the test pattern.

The cut shape is distorted. Reduce the cutting speed.

Peel off circle 1.

Rectangle 2 also peels off. Increase the blade force.

Some uncut areas remain. Reduce the cutting speed.



Rectangle 2

Ø Peel off rectangle 2.

The blade should leave faint traces on the backing paper.

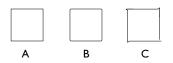
The blade trace is indistinct. Increase the blade force.

The blade trace is too deep and cuts into the backing paper. Reduce the blade force.

Output Check the shape of rectangle 2.

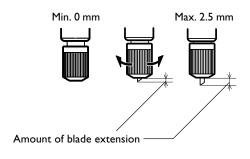
A. Good

B.The corners are rounded. Increase the amount of blade offset.



C.The corners have "horns." Reduce the amount of blade offset.

Accurately Adjusting the Cutting-in Amount



When you want to perform accurate and fine adjustment of the cutting-in amount, such as when cutting media with thin carrier paper, you can obtain good results by adjusting the tip of the blade.

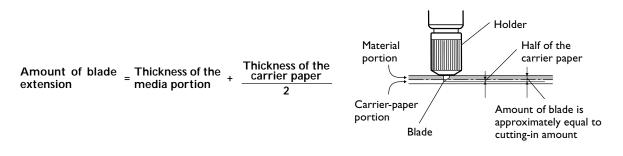
Turn the cap portion of the blade holder to adjust the amount of blade extension.

A change in extension of 0.5 mm can be made by rotating the cap one full turn.

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

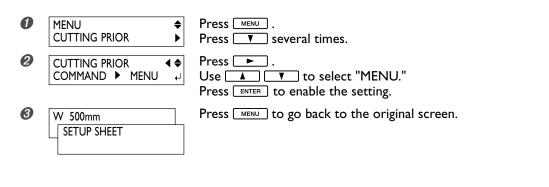
Rough Estimate for the Amount of Blade Extension

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



Making the Cutting Conditions Set on the Machine Take Precedence

Procedure



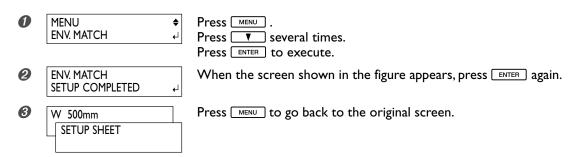
Description

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

Automatically Correcting Misalignment of the Printing and Cutting Positions

Procedure

I. Execute the [ENV. MATCH] menu.



2. Perform position alignment automatically.

0	MENU ¢ PRINT-CUT ADJ.	Load the media. Press MENU . Press V several times.
0	PRINT-CUT ADJ.	Press . Press . Press Inter to execute.
8	PRINT-CUT ADJ. COMPLETED!! ↓	When the screen shown in the figure appears, press ENTER again.
4	W 500mm	Press MENU to go back to the original screen.

Description

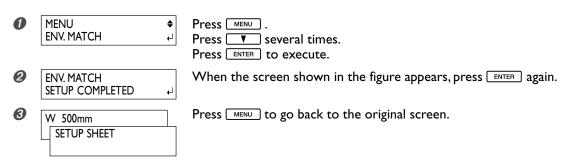
Factors such as changes in the environment where the machine is installed may cause subtle misalignment of the locations of printing and cutting. If this happens, carry out the procedure described here. Alignment marks are printed and sensed, and misalignment is corrected automatically. Depending on the type of media, detection may not be possible. In such cases, use a different type of media or perform correction manually.

P 89 "Manually Correcting Misalignment of the Printing and Cutting Positions"

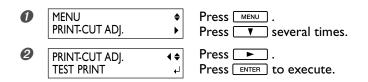
Manually Correcting Misalignment of the Printing and Cutting Positions

Procedure

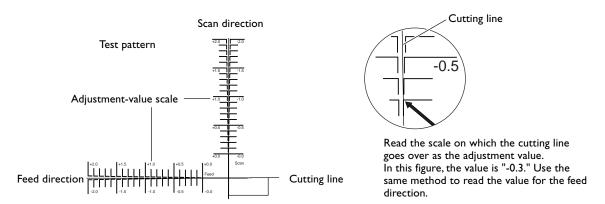
1. Execute the [ENV. MATCH] menu.



2. Print a test pattern and cut it.



3. From the test pattern, read the value at the location.



4. Enter the adjustment value you read.

0	PRINT-CUT ADJ. FEED SETTING	Press 🔽 .
0	FEED SETTING 4 ◆ 0.0 mm 0.1 mm	Press
3	PRINT-CUT ADJ. SCAN SETTING	Press 🔄 . Press 🔽 .
4	SCAN SETTING	Press
6	W 500mm	Press MENU to go back to the original screen.

Description

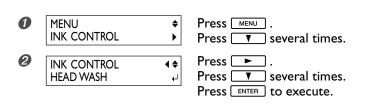
Factors such as changes in the environment where the machine is installed may cause subtle misalignment of the locations of printing and cutting. If this happens, carry out the procedure described here. The objective is the same as the automatic correction described in the previous section.

Default Setting

[FEED SETTING] : 0.0 mm [SCAN SETTING] : 0.0 mm

Draining Ink and Performing Internal Washing

Procedure



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 four 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.

You do not need to carry this out as part of your daily maintenance activities.

Draining Ink Remaining Inside the Machine

Procedure



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. You do not need to carry this out as part of your daily maintenance activities.

Printing a System Report

Procedure

0	MENU ♦ SYSTEM REPORT ب	Press MENU . Press V several times.
0	W 500mm	Press ENTER to start printing. Press MENU to go back to the original screen.

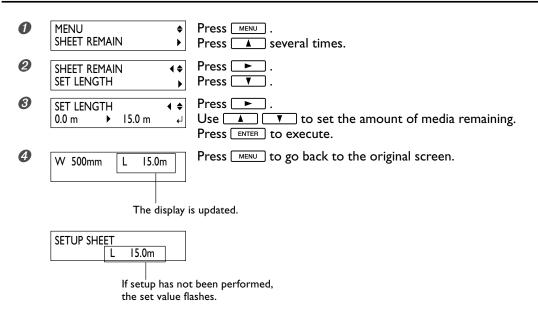
Description

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

4-10 Recording the Amount of Remaining Media

Displaying the Amount of Remaining Media on the Screen

Procedure



Description

You can display how much of the media in use is left.

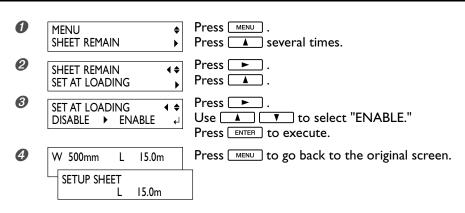
Once you set the amount of media remaining, the amount remaining is displayed at the top menu until it reaches zero. If you cancel the setup such as by removing the media or raising the loading lever, the amount remaining at that time flashes on the screen.

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



Description

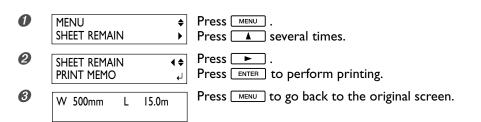
Setting this to "ENABLE" automatically displays [SHEET REMAIN] whenever you change the media and finish setup. This makes it impossible to go on to the next operation unless you redo the setting for the amount remaining. This can be useful for keeping you from forgetting to redo the setting when you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

Default Setting

[SET AT LOADING] : DISABLE

Printing the Amount of Remaining Media

Procedure



Description

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

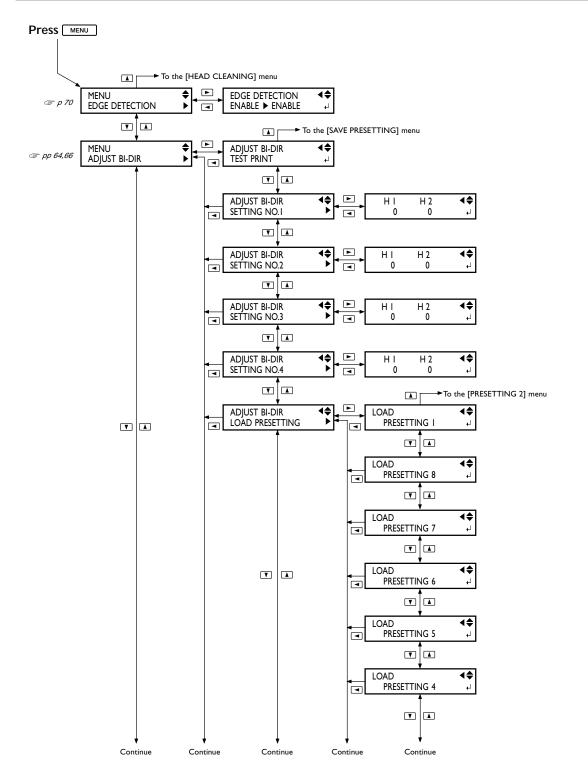
You use this when you want to make a record of the remaining length of the media now in use.

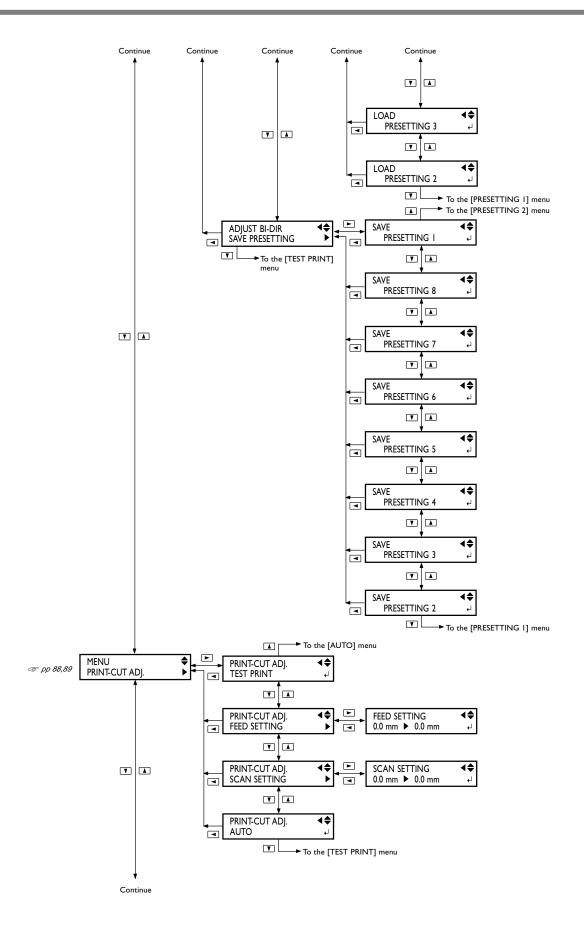
Printing the amount of media remaining before you change the media enables you to refer to the printed record and use the value to make the setting for the remaining amount the next time you use the media.

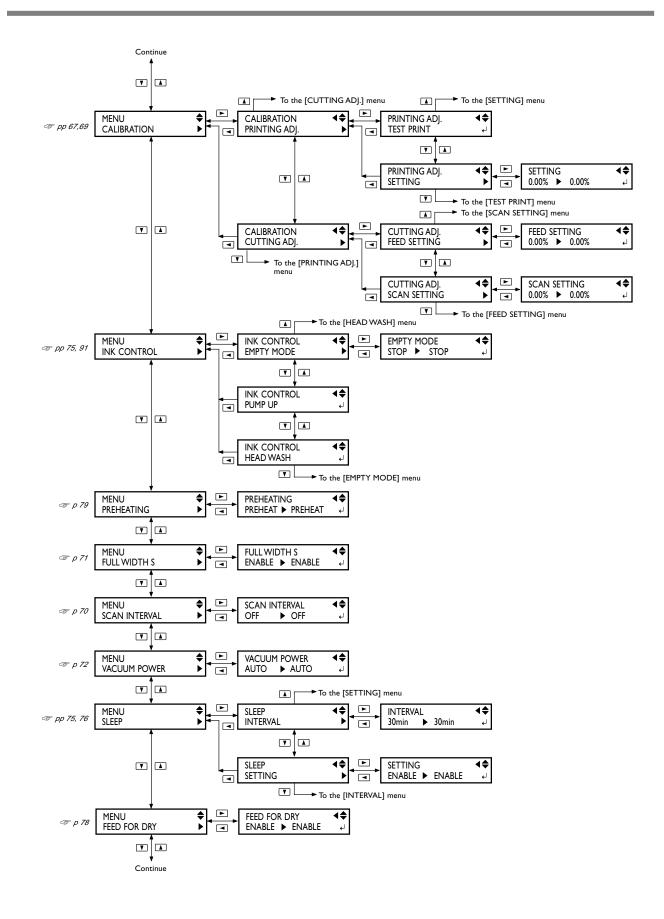
Note, however, that continuing by performing the next output starts the output on top of the portion where the amount of remaining media is printed.

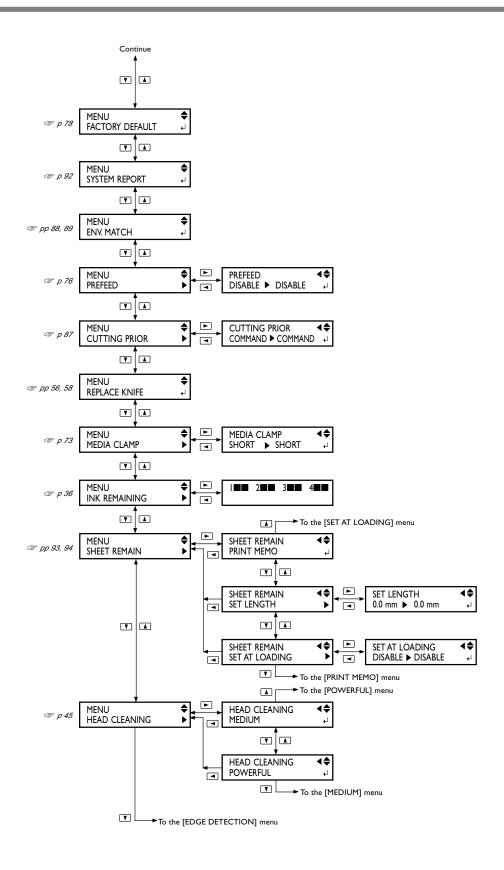
After you print the amount remaining, we recommend using sterrout to cut off the media.

Main menu



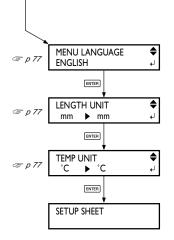




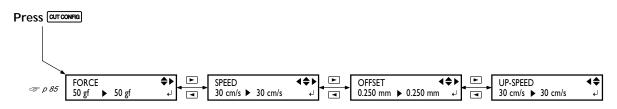


Language and Unit Menu

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



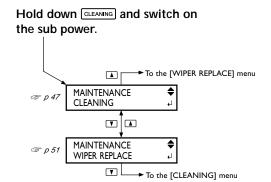
Cutting Configuration Menu



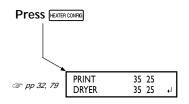
Cleaning and Maintenance Menu

Hold down CLEANING for one second or longer.





Heater Configuration Menu



Chapter 5 What to Do If

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 POWER light comes on.

If the [SET UP] light on?

Printing is not performed when the [SET UP] light is not on. Lower the loading lever, then close the front cover.

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

W 500mm

yed, printing doesn't start even when data is sent from the computer. Press MENU to display the top menu.

Is the PAUSE light on?

When the **PAUSE** light is on, operation is paused. To resume, press **PAUSE**. The **PAUSE** light goes dark and printing resumes.

Has ink run out?

1_2■3■4■

When printing data is sent while the screen shown in the

figure is displayed, a message appears and a warning beep

sounds. At the same time, operation pauses. When the ink cartridge is replaced with a new one, printing or cutting starts.

Is a message displayed on the screen?

- P 108 "If a Message Appears"
- P 109 "If an Error Message Appears"

Is the cable connected?

Connect the cable securely.

Are you using a lengthy USB cable or a USB hub?

Use a shielded USB cable having a length of three meters or less. Never use a USB hub or the like.

The Print Heater and Dryer Don't Warm Up

Is media loaded?

The print heater does not get hot when the [SET UP] light is dark (unless the default setting has been changed). Load media, and wait for the machine to warm up.

P 79 "Determining How the Print Heater and Dryer Operate"

Is the temperature of the room too low?

Use the machine in an environment where the temperature is 20 to 32°C (68 to 98°F).

Are the voltage switches set correctly?

Set the voltage switches correctly to match the voltage in the region where you're using the machine. For information on how to make the settings, refer to "Setup Guide."

Printed Results Are Coarse or Contain Horizontal Stripes

Do the print heads show dot drop-out?

☞ p 45 "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 67 "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 64 "Correcting for Misalignment in Bidirectional Printing"

Are the print heater and dryer at a suitable temperature?

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

P 32 "Print Heater and Dryer Settings"

Is the temperature of the room too low?

The print heater and dryer may not warm up sufficiently when the temperature is 20 °C (68 °F) or lower. Also even when they reach their preset temperatures, adequate effectiveness may not be apparent if the media is thoroughly chilled. Before printing, allow the media to come to room temperature.

Is the 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?

Colors Are Unstable or Uneven

Did you shake the ink cartridges gently before installing them?

If you're using a model that uses ECO-SOL INK, gently shake the cartridge before you install a new cartridge.

Is the media wrinkled?

Was printing paused partway through?

When printing is paused, the coloring at the seam may be altered when printing resumes. Avoid pausing printing. With the factory-default settings, printing pauses when an ink cartridge runs empty. Before you perform lengthy printing, check the amount of ink remaining in the ink cartridges. Printing may also pause when data is not sent from the computer quickly enough. We recommend not performing any other tasks with the computer while printing is in progress.

Is the printer installed in a level and stable location?

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

The Media Becomes Soiled When Printed

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 46 "Cleaning the Heads Using the Cleaning Kit"

Are the pinch rollers dirty?

Periodically clean the pinch rollers.

Cutting Is Misaligned or Skewed

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 or cutting may be adversely affected.

P 106 "Media Wrinkles or Shrinks, or Feed Is Unstable"

Are the settings for the cutting conditions appropriate?

Misalignment or skewing may occur if the cutting speed is too fast or the blade force is too high. Try changing the cutting conditions. With media having a strong adhesive layer, the adhesive layer reattaches to itself immediately after cutting. However, is a cutting test shows that the peeling of the media and the blade traces on the backing paper are optimal, then the media is being cut properly. Be careful not to make the blade force too high.

Is the length of printing too long?

For printing and cutting in particular, the longer the page length (that is, the longer the distance the media is returned after printing), the greater is the chance of misalignment occurring. It is a good idea to keep the size of each single page to the minimum necessary.

Are you using media that exhibits large expansion and contraction?

When you're performing printing and cutting, misalignment occurs if the media expands or contracts. If this happens, try performing printing with crop marks, then setting the base point and one or more align points and performing cutting. This corrects for expansion and contraction of the media.

Has the [ENV.MATCH] menu item been executed?

The printing length in the carriage direction may change depending on the operating environment (temperature and humidity). Execute [ENV. MATCH] to adjust the machine to match the operating environment.

P 88 "Automatically Correcting Misalignment of the Printing and Cutting Positions"

Is the offset value for [CUTTING ADJ.] something other than zero?

When you're performing printing and cutting, go to [CALI-BRATION] and set the [CUTTING ADJ.] menu item to "0."

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. ^{The problem of the problem. Fail-The problem of the pr}

Is the media warped or wrinkled?

Many factors can cause warping or wrinkling. Refer to the following and correct the problem.

P 106 "Media Wrinkles or Shrinks, or Feed Is Unstable"

5-4 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, or media jams. Take action as follows.

Media Wrinkles or Shrinks

Is the media loaded and set up straight and securely?

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

Are the media clamps mounted?

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

Was loaded media allowed to stand for some time?

Media may shrink or wrinkle if it is heated for an extended time. When printing ends, switch off the sub power and remove the media.

Was the media loaded while the print heater was hot?

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

Is the temperature of the print heater or dryer too high?

Set the temperature to suitable values for the type of media. ${}^{\mathscr{P}}$ p 32 "Print Heater and Dryer Settings"

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

Does the media or the shafts strike some other object?

Make sure the media and the shafts 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.

5-5 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.

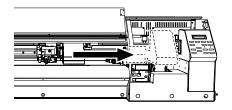
If the heads did not move, try switching off the main power, then again switching on the main power, followed by the sub power.

If the Heads Still Do Not Move

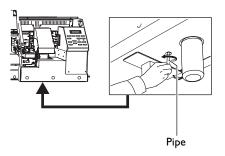
If the heads still do not move, carry out the following emergency response measure, then contact your authorized Roland DG Corp. dealer or Roland DG Corp. service center.

- 1. Switch off the main power and detach the side cover.
- 2. Open the front cover.

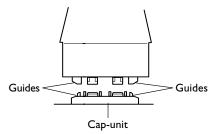
3. Gently move the print heads by hand as far as the standby position.



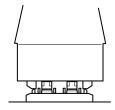
4. Insert the oval end of the pipe included with the machine into the hole at the bottom of the machine and turn gently. The cap unit rises.



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 pipe further to bring the heads near the cap unit.



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



Make sure the print heads are capped tightly.

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.

[CLOSE THE COVER]

Close the front cover and the left and right side covers. For safety, the carriage doe not operate while a cover is open.

[SHEET NOT LOADED SETUP SHEET]

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

[1∎ 2∎ 3∎ 4∎]

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

[EMPTY DRAIN BOTTLE]

Detach the drain bottle from the machine, discard the discharged fluid, then reinstall the drain bottle on the machine. Press ENTER to continue. This message appears before operations that discharge a large amount of ink.

[INSTALL DRAIN BOTTLE]

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

[TIME FOR MAINTENANCE]

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

P 46 "Cleaning the Heads Using the Cleaning Kit"

[TIME FOR WIPER REPLACE]

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

[TIME FOR SPONGE REPLACE]

It is time to replace the ink-absorbing material. After replacing, press ENTER.

P 54 "Replacing the Ink-Absorbing Material"

[PRESS THE POWER KEY TO CLEAN]

If you're using ECO-SOL INK, this appears when the machine has been unused for about one month.

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

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

P 59 "When Not in Use for a Prolonged Period"

5-7 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 vendor or the nearest Roland DG Corp. service center.

[SHEET SET ERROR SET AGAIN]

The loading lever was lowered while no media was loaded.

Raise the loading lever, place media at the correct location on the bed, then lower the lever again. This message appears when the media is not at the correct location.

P 26 "Loading and Cutting Off Media"

[EDGE DETECTION] is set to "ENABLE," but transparent media was loaded.

Raise the loading lever, set the [EDGE DETECTION] menu item to "DISABLE," then reload the media.

P 70 "Using Transparent Media"

The loaded media is too small.

Replace with media of usable size.

[PINCHROLL ERROR INVALID RIGHT POS]

The right pinch roller is positioned at a location where it does not pinch the media.

Raise the loading lever and move the right pinch roller to the correct location.

P 26 "Loading and Cutting Off Media"

[PINCHROLL ERROR INVALID LEFT POS]

The left pinch roller is positioned at a location where it does not pinch the media.

Raise the loading lever and move the left pinch roller to the correct location.

P 26 "Loading and Cutting Off Media"

[DATA ERROR CANCELING...]

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

Operation cannot be continued. Check for problems with the connector cable or the computer, then redo the operation, starting with reloading the media.

[SHEET TOO SMALL CONTINUE?]

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

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

[CAN'T PRINT CROP CONTINUE?]

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

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

The size of the data being output is too small.

Make the scanning direction size of the data at least 65 mm (2-9/16 in.).

To continue performing output without correcting this, press **ENTER**. At this time, the data is output without printing the crop marks. To stop output, stop sending data from the computer, then raise the loading lever. Change the size of the data, then send the data again.

[CROPMARK ERROR NOT FOUND]

Automatic detection of crop marks could not be accomplished.

Load the media at the correct position and perform detection of crop marks again. Depending on the media, it may not be possible to detect crop marks automatically. If repeating automatic crop-mark detection results in an error again, then perform manual crop-mark detection.

P 82 "Aligning Automatically and Cutting"

[ALIGN POINT POSITION INVALID]

An attempt was made to set an align point at a location where the setting cannot be made.

No align point can be set when the angle of the base point and the align point is too large.

Reload the media correctly, so that the angle is minimized, then set the base point and the align point again to match the crop marks.

P 82 "Aligning Automatically and Cutting"

[HEATING TIMEOUT CONTINUE?]

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

This occurs because the temperature of the location where the machine is installed is too low. We recommend raising the temperature. To continue waiting for the print heater temperature to rise, press **ENTER**. To start printing immediately, press **PAUSE**. If this message appear even though you are using the machine within the recommended temperature range, then check to make sure the voltage switches are set to the correct voltage for the region where you're using the machine.

[MOTOR ERROR TURN OFF POWER]

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.

[TEMPERATURE IS TOO LOW]

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. Bring the installed location to a temperature at which operation is possible (20 to 32 °C), then turn on the power.

[TEMPERATURE IS TOO HIGH]

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. Bring the installed location to a temperature at which operation is possible (20 to 32 °C), then turn on the power.

[HEATER VOLTAGE SETTING ERROR]

The heater temperature experienced a sudden rise because the settings for the voltage switches are incorrect.

Operation cannot be continued. After switch off the sub power and the main power, make the correct settings for the voltage switches. For information on how to make the settings, refer to "Setup Guide."

[CANCELED FOR PROTECTING MOTOR]

Continuous operation made the pump motor become hot, and so operation was paused.

Press any key to clear the error. Allow the machine to stand for approximately 40 minutes, then resume operation.

[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.

[CARRIAGES ARE SEPARATED]

The cutting carriage and the printing carriage were improperly disconnected.

A problem such as a media jam occurred, impeding correct operation. Operation cannot be continued. Switch the sub power off, then back on.

[SERVICE CALL ****]

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 or Roland DG Corp. service center of the number that appeared on the display.

Chapter 6 Specifications

Conditions for Usable Media

Use genuine media from Roland DG Corp.

Media width

7-3/16 to 30 inches (182 to 762 mm)

A) Cuttable media thickness

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

B) Maximum media thickness (including backing paper)

Printing only : 1.0 mm (39 mil) When performing cutting : 0.4 mm (15 mil)

C) Roll outer diameter

180 mm

D) Paper tube (core) inner diameter

50.8 mm or 73.2 mm (2 inches or 3 inches)

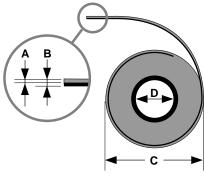
Roll weight

12 kg (26 lb.)

Other conditions

Media such as the following cannot be used.

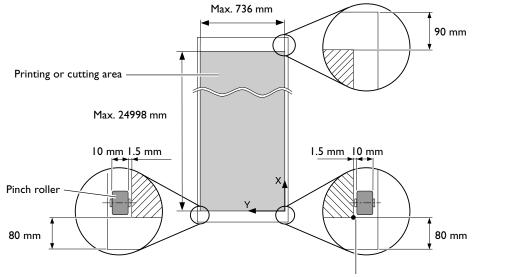
- > Media having an inward curl (i.e., media whose print surface is on the inner side of the roll)
- > Media whose end is attached to the paper pipe (core)
- > Media which is severely warped or which has a strong tendency to reroll
- > Media that cannot withstand the heat of the heating devices
- > Media whose paper pipe (core) is bent or crushed



Side view of roll media

Maximum area

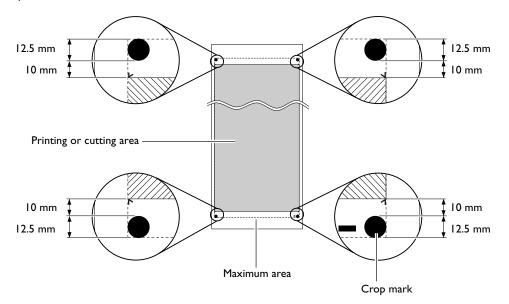
The printing or cutting area along the horizontal plane (the direction in which the carriage moves) is determined by the position of the pinch rollers.



Printing or cutting coordinates origin (0,0)

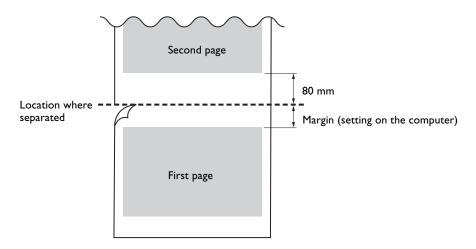
Maximum Area When Using Crop Marks

When crop marks are used, the printing or cutting area is reduced from the maximum area by an amount equal to the crop marks.



The Media-cutoff Location During Continuous Printing

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



6-3 About the Blade

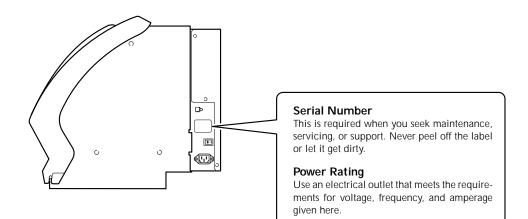
The cutting conditions and the service life of the blade change according to the media and the operating environment, even when using identical blades. The service life also differs according to the type of blade. A rough guide is shown below.

Blade	Media	Tool-force	Amount of cutter offset	Life of a blade* (General guide)
ZEC-U1005	General Signage Vinyl	50 to 150 gf	0.25 mm	8000 m
ZEC-U5025	General Signage Vinyl	30 to 100 gf	0.25 mm	4000 m
	Fluorescent Vinyl	120 to 200 gf	0.25 mm	4000 m
	Reflective Vinyl	100 to 200 gf	0.25 mm	4000 m

When uncut areas remain even when the blade force is increased to a value that is higher by 50 to 60 gf than the values shown in this chart, then replace the blade.

> The values for "Life of a blade" are estimates for when cutting media of identical type.

6-4 Locations of the Power Rating and Serial Number Labels



6-5 Specifications

		SP-300V	
Printing/Cutting method		Piezo ink-jet method/media-moving method	
Acceptable media widths		182 to 762 mm (7-3/16 to 30 in.)	
Printing/Cutting width ^(*1)		Maximum 736 mm (29 in.)	
Ink cartridges	Capacity	220 cc ±5 cc	
	Color	Four colors (cyan, magenta, yellow, and black)	
Printing resolution (Printing dot resolution)		Maximum 1440 dpi	
Acceptable tool		Special blade for CAMM-1 series	
Cutting speed		10 to 300 mm/s	
Blade force		30 to 300 gf	
Blade offset compensation		0.000 to 1.500 mm (0 to 0.0591 in.)	
Software resolution (When cutting)		0.025 mm/step (0.000984 in./step)	
Distance accuracy (When printing) (*2)(*3)		Error of less than $\pm 0.3\%$ of distance traveled, or ± 0.3 mm, whicheve is greater	
Distance accuracy (W	/hen cutting) ^(*3)	Error of less than $\pm 0.4\%$ of distance traveled, or ± 0.3 mm, whichever is greater When distance correction has been performed (when the setting for [CALIBRATION] - [CUTTING ADJ.] has been made): Error of less than $\pm 0.2\%$ of distance traveled, or ± 0.1 mm, whichever is greater	
Repetition accuracy (When cutting) (*3)(*4)		±0.1 mm or less	
Repetition between printing and cutting (*3)(*5)		±0.5 mm or less	
Alignment accuracy for printing and cutting when reloading media (*3)(*6)		Error of less than $\pm 0.5\%$ of distance traveled, or ± 3 mm, whichever is greater	
Media dryer ^(*7)		Heating method, Setting range for the preset temperature: 35 to 50°C (95 to 122°F)	
Ink-fixing device (*7)		Print heater, Setting range for the preset temperature: 35 to 50°C (95 to 122°F)	
Interface		USB interface (compliant with Universal Serial Bus Specification Revision 1.1	
Power-saving function		Automatic sleep feature	
Power supply	Voltage and frequency	AC 100 to 120 V ±10%, 50/60 Hz or AC 220 to 240 V ±10%, 50/60 H	
	Required power capacity	6 A (100 to 120 V) or 3 A (220 to 240 V)	
Power consumption	During operation	Approx. 470 W (100 to 120 V) or 650 W (220 to 240 V)	
	Sleep mode	Approx. 29 W	
Acoustic noise level	During operation	64 dB (A) or less (according to ISO 7779)	
	During standby	40 dB (A) or less (according to ISO 7779)	
Dimensions (With stand)		1720 (W) x 770 (D) x 1275 (H) mm (67-3/4 (W) x 30-3/8 (D) x 50-1/4 (H) in.	
Weight (With stand)		124 kg (273 lb.)	
Packed dimensions		1890 (W) x 830 (D) x 900 (H) mm (74-1/2 (W) x 32-3/4 (D) x 35-1/2 (H) in.)	
Packed weight		161 kg (355 lb.)	
Environment	Power on (*8)	Temperature: 15 to 32°C (59 to 90°F) (20°C [68°F] or more recommended), humidity: 35 to 80% (no condensation)	
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80% (no con densation)	
Included items		Exclusive stand, power cord, blade, blade holder, replacement blade for separating knife, cleaning kit, software RIP, manuals, etc.	

*1

The length of printing or cutting is subject to the limitations of the program or driver.

*2

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

*3

Not assured when the print heater or dryer is used.

*4

- The following conditions must be satisfied:
- ➤ Media type: 3M Scotchcal Mastercut Film
- ➤ Roll media must be loaded on the shaft
- ➤ [PREFEED] menu item must be set to [ENABLE]
- > Side margins: 25 mm or more for both the left and right margins
- ≻ Front margin: 35 mm or more
- > Excluding stretching/contraction of the media
- Range for assured repetition accuracy
- > Provided that media length is under 3000 mm

*5

- ➤ Provided that media length is under 3000 mm
- ➤ Temperature: 25°C (77°F)
- > Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media

*6

- ≻ Media type: Roland PET film
- > Data size: 1,000 mm in the media-feed direction, 736 mm in the carriage-movement direction

➤ No lamination

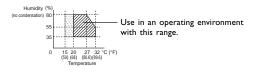
- > Automatic detection of crop marks at 4 points when media is reloaded
- > During cutting, [PREFEED] menu item must be set to [ENABLE]
- ➤ Temperature: 25°C (77°F)
- > Excludes the effects of slanted movement and of expansion and contraction of the media

*7

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

*8

Operating environment



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