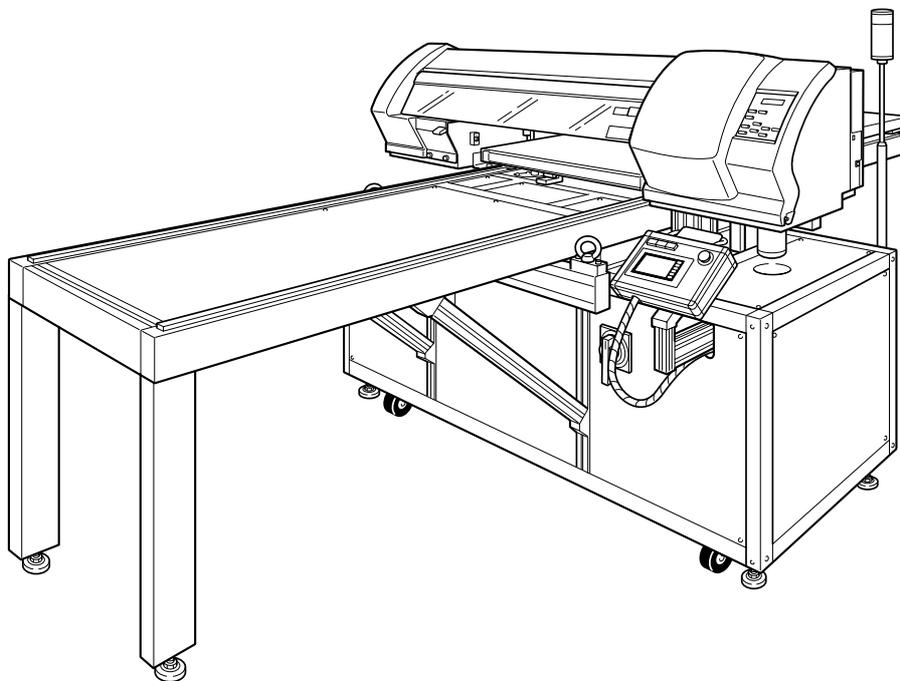


FLATJET
ROLAND FLATJET SERIES *FLJ-300*

FLJ-300

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

For the USA

**FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE
STATEMENT**

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

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

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

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

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

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

NOTICE

Grounding Instructions

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

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

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

Repair or replace damaged or worn out cord immediately.

For Canada

CLASS A NOTICE

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

CLASSE A AVIS

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



ROLAND DG CORPORATION

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

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

RELEVANT DIRECTIVE : EC MACHINERY DIRECTIVE (98/37/EC)

EC LOW VOLTAGE DIRECTIVE (73/23/EEC)

EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (89/336/EEC)

WARNING

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

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

To Ensure Safe Use

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

About WARNING and CAUTION Notices

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

About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. The symbol at left means "danger of electrocution."
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific meaning of the symbol is determined by the design contained within the circle. The symbol at left means the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. The symbol at left means the power-cord plug must be unplugged from the outlet.

Incorrect operation may cause injury

WARNING

 **Be sure to follow the operation procedures described in this manual.**
Failure to follow the procedures may cause sudden 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.

 **Never allow anyone unfamiliar with the usage or handling of the machine to touch the machine.**
Touching a dangerous location may cause sudden operation or the like of the machine, which may lead to an unexpected accident.

 **Do not disassemble, repair, or modify.**
Doing so may lead to fire or abnormal operation resulting in injury.

 **Moving the machine requires special equipment and training**

 **WARNING**



Do not emplace or move the machine yourself.

The machine weighs approximately 500 kg (1103 lb.), and moving it requires special equipment and training. Performing operations in an unreasonable manner may result in a major accident.

 **This machine weighs 500 kg (1103 lb.).**

 **WARNING**



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

This machine weighs approx. 500 kg (1103 lb.). Installation in an unsuitable location may cause a major accident, including tipover, fall, or collapse.



After installation, keep the stand secured in place using the adjusters.

This machine weighs approx. 500 kg (1103 lb.). If the machine should begin to topple, the tipover cannot be stopped with human strength, and a major accident may result, including crushing of the appendages or the body.

 Danger of electrical short, shock, electrocution, or fire

This machine carries a high current. This can cause situations that could not occur with low-power equipment; use caution.

 WARNING

 **Do not use with any electrical power supply that does not meet the ratings displayed on the unit.**
Use with any other power supply may lead to fire or electrocution.

 **Never allow the machine to get wet, or apply gasoline, thinner, or any other flammable material to it.**
Current leakage may cause electrical shock, electrocution, or combustion and fire.

 **Never allow hairpins, coins, matches, or any other object to get inside the machine through the ventilation ports.**
Doing so may cause an electrical short, resulting in shock or electrocution, or the inserted object may catch fire.

 **Never place gasoline, alcohol, thinner, or any other flammable material near the machine, or use an aerosol spray close to the machine.**
Doing so may cause fire.

 **Never damage the power cord or pull it with force.**
Doing so may tear the cord's insulation, causing an electrical short and resulting in electrical 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.**
The cord carries a high current. 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.**
The cord carries a high current. If the cord is in a bundle or roll, it 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.

 **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.

 **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 or shut off the power supply that the machine is connected to.**
Failure to do so may result in fire, electrical shock, or electrocution. Immediately disconnect the power cord or shut off the power supply that the machine is connected to and contact your Roland DG Corp. service center.

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

 **WARNING**



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.



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
- Near bleach, chemicals, explosives, or the like

Doing so may cause fire.

 **CAUTION**



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.

Important Notes Regarding Operators and the Work Area

WARNING

 **Never operate the machine when tired or after ingesting alcohol or medications.**
Operation requires appropriate judgment, and impaired judgement can lead to unexpected injury.

 **Conduct operations in a clean, brightly lit location.**
Working in a location that is dark or cluttered can be hazardous. Operations in such locations may cause an accident, such as tripping and bumping into the machine.

 **Only touch or go near the machine when necessary such as when setting the media or operating the panel.**
Otherwise, you may accidentally touch a dangerous location on the machine or cause sudden operation or the like of the machine, which may result in unexpected injury.

 **Do not touch the machine while it is in operation.**
If you do, your fingers or hand may get caught in the machine, which may lead to serious injury.

 **When operating the machine, check that there is no one nearby.**
If there is, tell the person that the machine will start operating in advance. Otherwise, sudden operation or the like of the machine may cause injury to people nearby.

CAUTION

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

 **Never climb or lean on the machine.**
The machine is not made to support a person. Climbing or leaning on the machine may cause parts to break, resulting in injury.

⚠ Warning Labels

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



Flammable

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



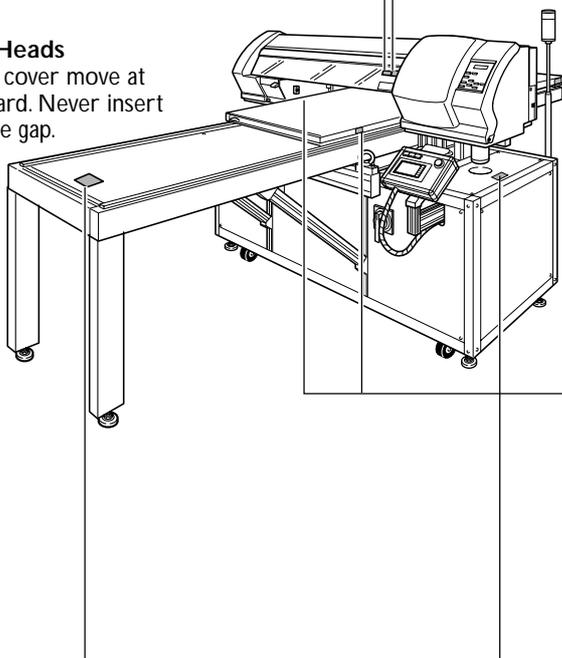
Ink Is Toxic

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



Caution: Moving Print Heads

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



Caution: Pinching Hazard

Moves while printing. Be careful not to get your fingers or hand caught in between the machine parts.

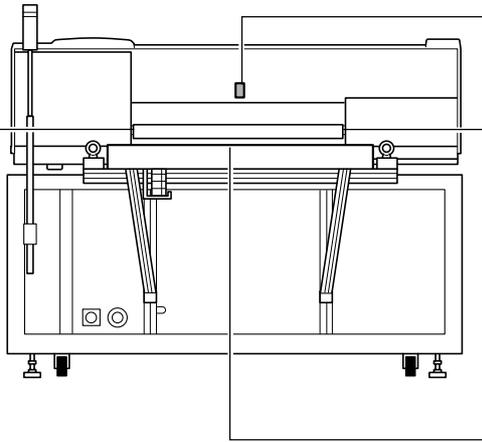


Caution: Pinching Hazard

Moves while printing. Be careful not to get your fingers or hand caught in between the machine parts.



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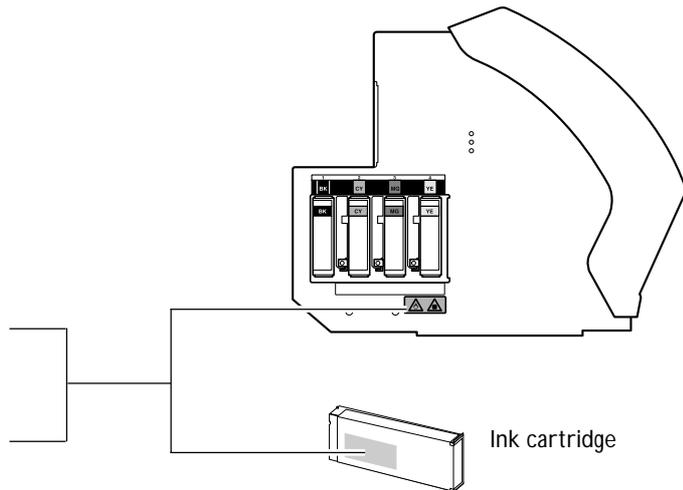
Caution: Pinching Hazard
Moves while printing. Be careful not to get your fingers or hand caught in between the machine parts.



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



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



Ink cartridge



Pour utiliser en toute sécurité

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

Avis sur les avertissements

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

À propos des symboles

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



L'utilisation incorrecte peut causer des blessures



ATTENTION



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 jamais permettre à quiconque de toucher l'appareil s'il ou si elle n'en connaît pas le fonctionnement ou la manutention.

Toucher l'appareil à certains points dangereux peut en déclencher le fonctionnement, ce qui risque de causer un accident imprévu.



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 déplacement de l'appareil requiert un matériel et un savoir-faire spécialisés.**

ATTENTION

 **Ne jamais tenter de procéder seul à des opérations comme l'installation ou le déplacement de l'appareil.**

Le poids de cet appareil est d'environ 500 kg (1103 lb.); il faut une formation et de l'équipement spéciaux pour déplacer l'appareil. Tenter de procéder à ces opérations de manière intempestive peut provoquer un accident grave.

 **Le poids de cet appareil est de 500 kg (1103 lb.)**

ATTENTION

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

Le poids de cet appareil est d'environ 500 kg (1103 lb.). Installer l'appareil à un endroit inapproprié peut provoquer un accident grave comme le renversement, la chute ou l'écrasement.

 **Une fois l'appareil installé, solidifier la base à l'aide des éléments de réglage ajustables.**

Le poids de cet appareil est d'environ 500 kg (1103 lb.). Si l'appareil commence à basculer, aucune force humaine ne peut l'empêcher de se renverser; il s'ensuivrait un accident grave, par exemple l'écrasement d'un membre ou du corps.

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

Cet appareil transmet une tension élevée. Cela peut créer des situations qui ne se produisent pas avec de l'équipement à basse tension. La prudence est de mise.

ATTENTION

-  **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 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.**
Le câble transmet un courant de tension élevée. 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.**
Le câble transmet un courant de tension élevée. S'il est attaché ou enroulé, il peut 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 de causer une décharge électrique ou une électrocution.
-  **Ne jamais utiliser 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.
-  **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 usés sont inflammables et toxiques**

 **ATTENTION**



Ne jamais utiliser l'appareil près d'une flamme nue ou d'un appareil de chauffage ou dans des endroits où la production d'étincelles ou d'électricité statique peut survenir.

L'encre ou les autres produits combustibles peuvent s'enflammer et causer un incendie.



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
- près de javellisants, de produits chimiques, d'explosifs ou d'autres produits semblables

Cela crée un risque d'incendie.

 **PRUDENCE**



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

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



Ne jamais boire l'encre, le liquide de nettoyage ni les liquides usés, ne pas 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 d'encre 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.

Remarques importantes sur les opérateurs et le lieu de travail

ATTENTION

 **Ne jamais faire fonctionner l'appareil en état de fatigue, ni après avoir consommé de l'alcool ou des médicaments.**
L'utilisation de l'appareil exige d'exercer du bon sens; par conséquent, l'opérateur peut se blesser s'il n'est pas en possession de tous ses moyens.

 **Utiliser l'appareil dans un endroit propre et bien éclairé.**
Travailler dans un endroit sombre ou encombré peut créer des risques. Utiliser l'appareil dans de tels endroits risque de causer un accident, par exemple un faux pas et une chute sur l'appareil.

 **Ne s'approcher ou ne toucher l'appareil qu'en cas de nécessité absolue, telle que pour le recharger ou pour utiliser l'écran.**
En effet, un mouvement involontaire risque de se traduire par le contact avec une zone dangereuse de l'appareil, voire de provoquer son fonctionnement inopiné et d'être la cause de blessures imprévisibles.

 **Ne pas toucher l'appareil lors de son fonctionnement.**
Les doigts ou la main risquent d'être happés dans l'appareil et de subir de très graves blessures.

 **Avant d'utiliser l'appareil, s'assurer qu'il n'y a personne à proximité. En cas de présence de tiers, les avertir avant la mise en route de l'appareil.**
Le fonctionnement soudain de l'appareil pose un risque de danger de blessures pour les personnes présentes.

PRUDENCE

 **Ne jamais faire fonctionner l'appareil si on porte une cravate, un collier, des vêtements amples ou autres du même genre. Bien attacher les cheveux longs.**
Les cravates, colliers, vêtements amples ou cheveux peuvent être entraînés dans le système d'alimentation du support ou par d'autres éléments, ce qui risque 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.

⚠ 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.



Inflammable

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



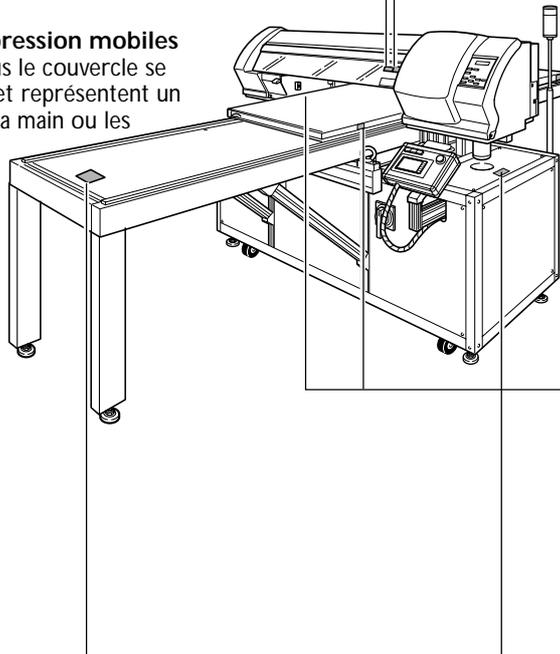
L'encre est toxique

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



Attention : Têtes d'impression mobiles

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



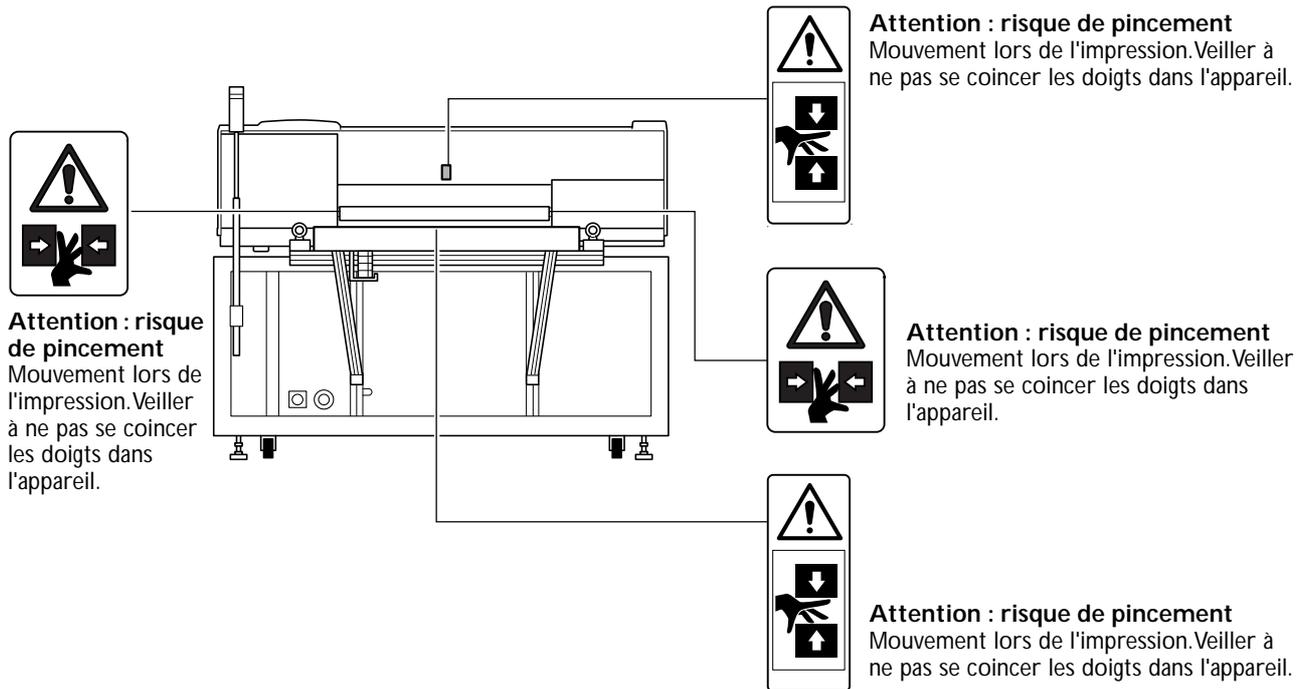
Attention : risque de pincement

Mouvement lors de l'impression. Veiller à ne pas se coincer les doigts dans l'appareil.

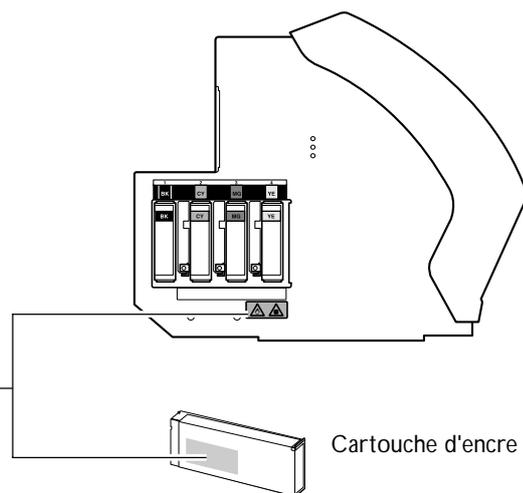


Attention : risque de pincement

Mouvement lors de l'impression. Veiller à ne pas se coincer les doigts dans l'appareil.



-  **Inflammable**
L'encre et les liquides usés sont inflammables. Les garder loin de toute flamme nue.
-  **L'encre est toxique**
L'encre et les liquides usés sont toxiques. Éviter tout contact. Utiliser uniquement dans un endroit bien aéré.



Important Notes on Handling and Use

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

Printer unit

This Machine Is a Precision Device

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

Install in a Suitable Location

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

The Print Heads Are Delicate

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

This Machine Becomes Hot

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

When Moving the Machine

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

Ink cartridges

Ink Cartridges Come in Various Types

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

Never Subject to Impact or Attempt to Disassemble

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

Storage

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

Chapter 1

Introduction

1-1 About the Machine

Machine Features

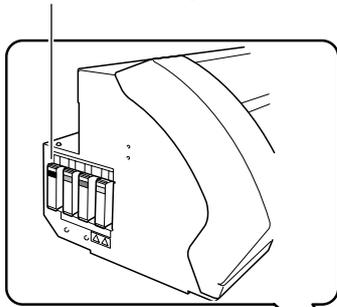
The FLJ-300 is a large format printer equipped with a flat table. Because the media is set on the flat table, printing is possible on various materials such as a thick or hard material. This was difficult to do on a conventional inkjet printer.

Part Names and Functions

Main unit

Cartridge Slots

This is where ink cartridges are installed.



Front Cover

Be sure to close this when you perform printing.

Cover

You remove this when you perform maintenance.

Indication Light

This comes on when the printer is in operation.

Printer Control Panel

You use this to operate the print head, set various menus, and view messages.

Base Control Panel

You use this to operate the entire printer such as the table and lifter, set various menus, and view messages.

Loading Lever

You use this to fix the media in place.

Maintenance Cover

You remove this when you perform maintenance.

Emergency Stop Switch

If you press this in an emergency, the machine operation stops and the sub power supply turns off.

Table

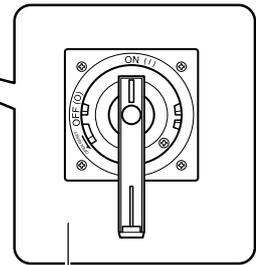
This is where you set the media. The table moves when printing starts.

Rubber Mat

This is used with the optional blower. For all other cases, remove it.

Touch Sensor

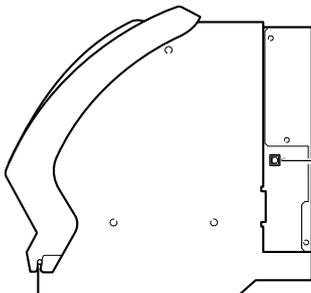
If the sensor touches an object or person, the printer makes an emergency stop for safety reasons.



Main Power Switch

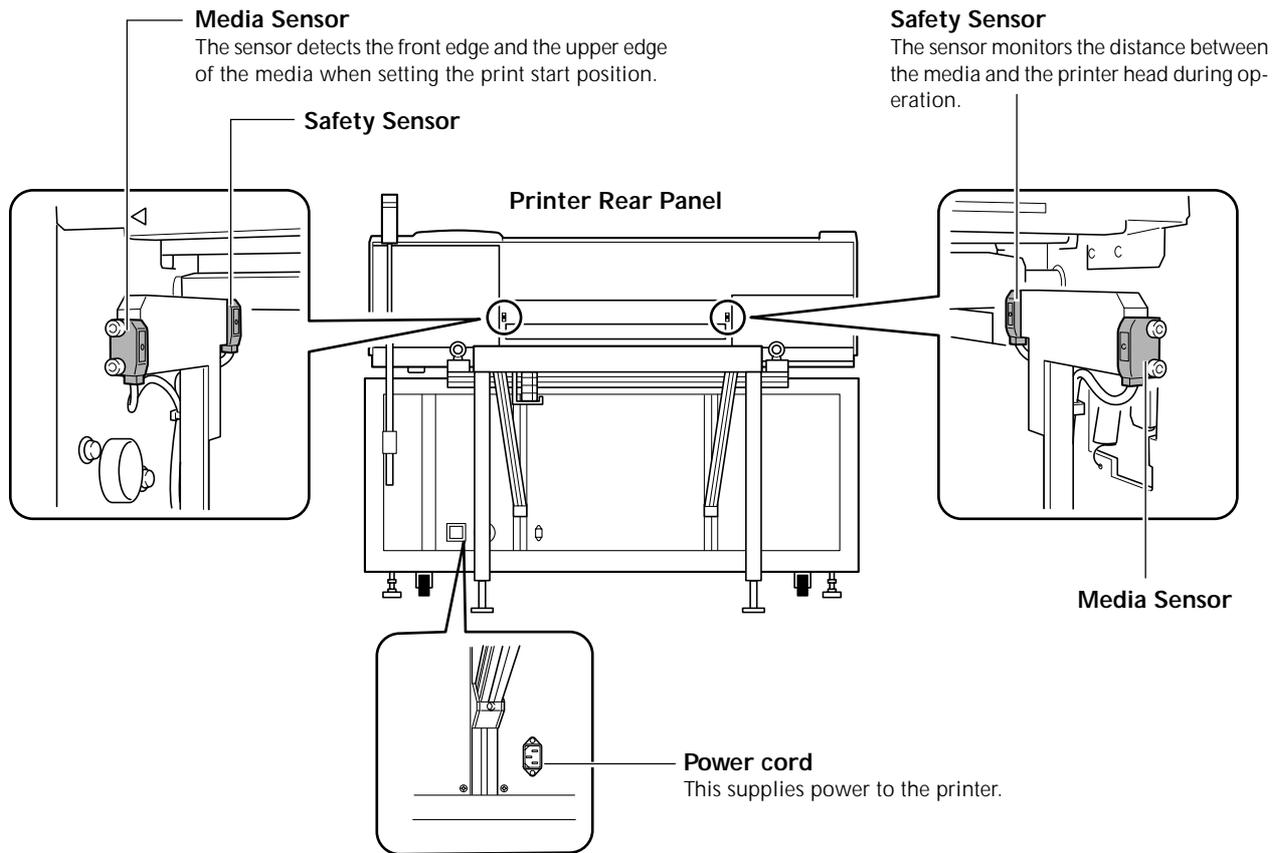
This is the main power switch for the machine.

Printer Side Panel

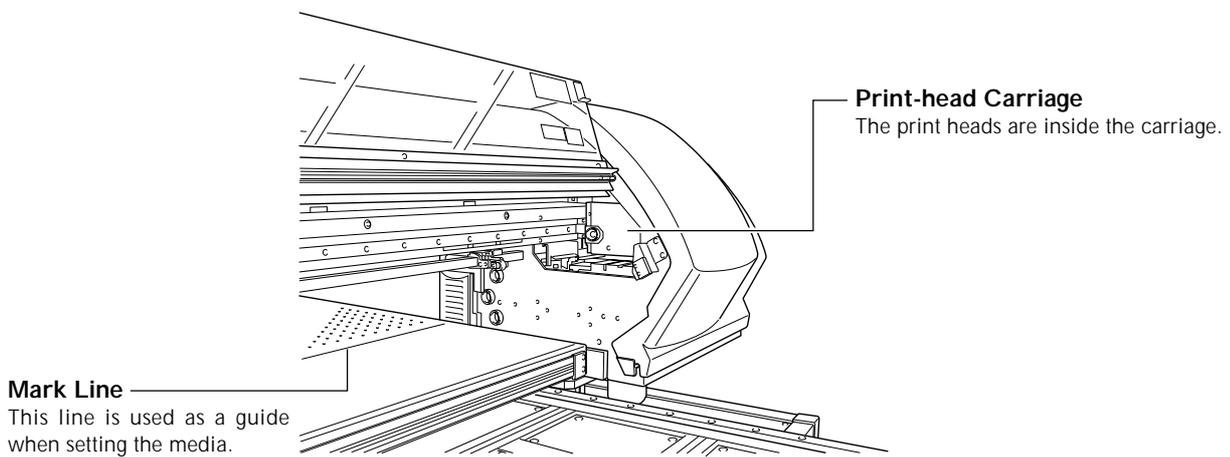


USB Connector

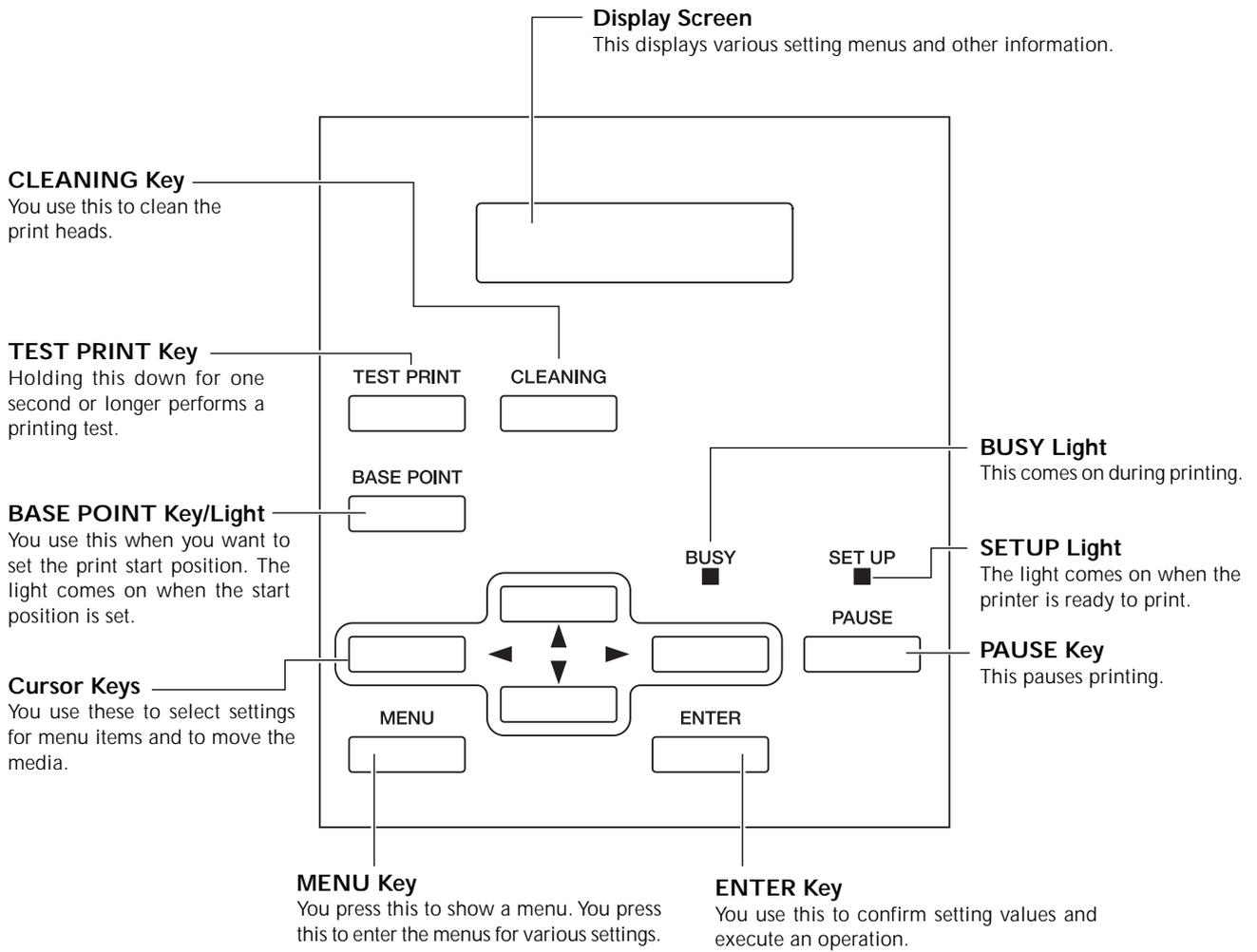
Connect a USB cable (sold separately).



Inside the Printer Cover



Printer Control Panel

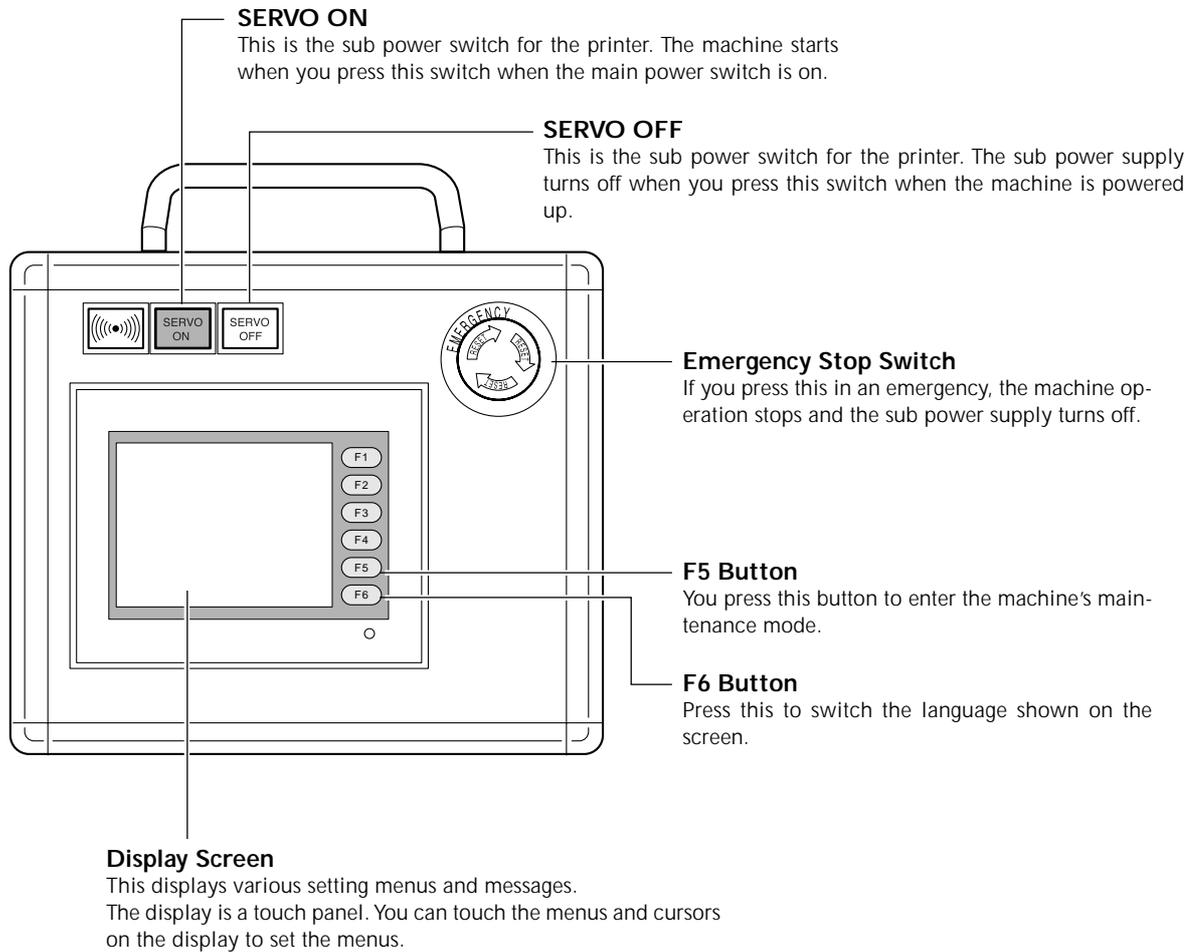


Printer Control Panel Notation

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

-  MENU Key
-  ENTER Key
-  Cursor Keys
-  PAUSE Key/Light
-  TEST PRINT Key
-  CLEANING Key
-  BASE POINT Key/Light

Base Control Panel



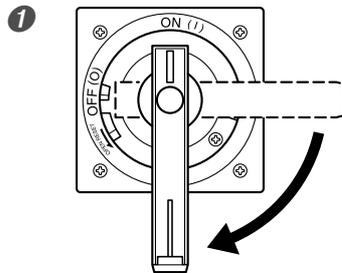
Chapter 2

Operation

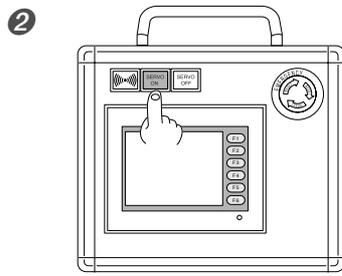
2-1 Starting the Machine

Switching On the Power

⚠ WARNING If you are leaving the printer after you finished printing, be sure to turn off the sub power. If another person touches the printer inadvertently, the machine may suddenly move and cause injury.

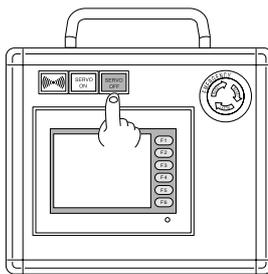


Switch on the main power switch.



Press the SERVO ON to switch on the sub power.

Switching Off the Power



Normally, only press the SERVO OFF to switch off the sub power.

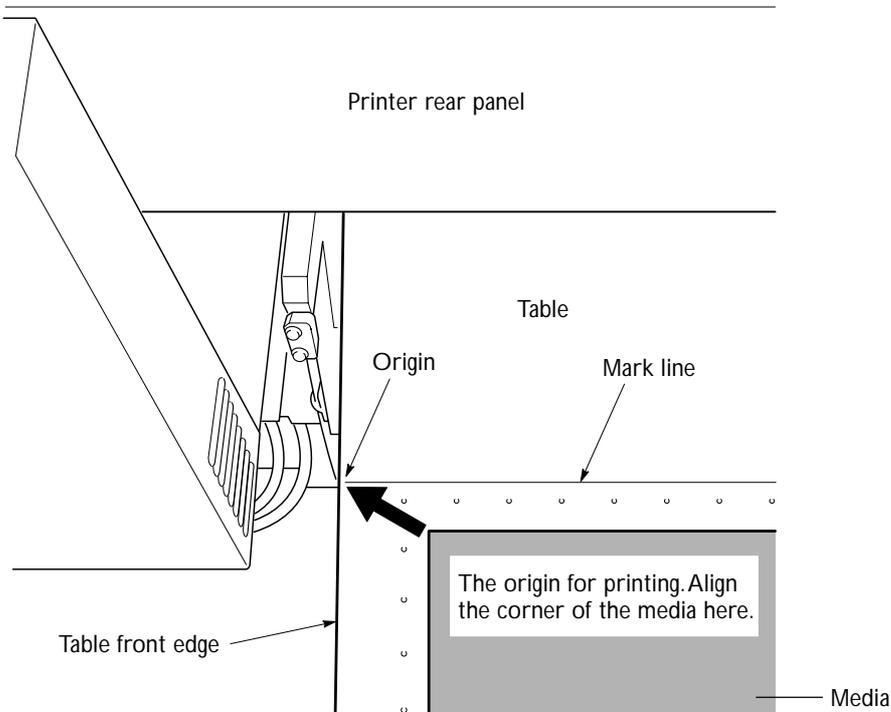
Important Note on Switching Off the Power

Never switch off the printer's main power or unplug the power cord suddenly while operation is in progress. Doing so may damage the print heads. Be sure to first switch off the sub power. If the main power is accidentally switched off, immediately turn the main power and sub power back on.

2-2 Setting the Media

Set the media by aligning the corner of the media to the position on the table indicated in the figure. Align the right edge of the media to the table edge and the top edge to the mark line.

Printer rear view



Media Not Suitable for Printing

The following types of media are not suitable for printing.

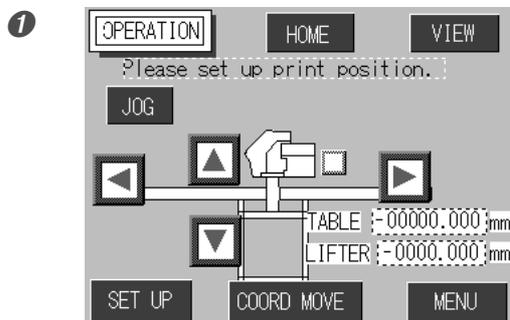
- Media that is bent or media that easily winds up.
- Media whose surface is extremely uneven.
- Media whose thickness is not uniform

⚠ CAUTION Be sure to follow the procedure exactly and only touch the specified locations. Otherwise sudden movement of the machine may cause injury.

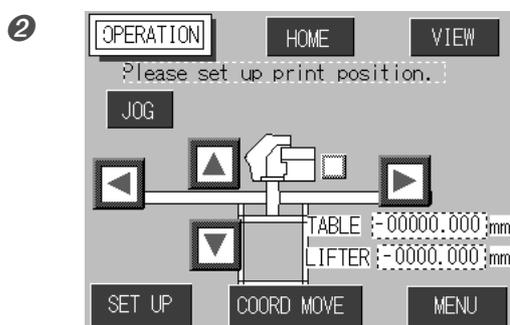
2-3 Specifying the Print Start Position

Specify the print start position from the Base Control Panel Specify the position by entering a value.

1. Enter numeral input mode.



Press [HOME].
The table and lifter moves to the home position.

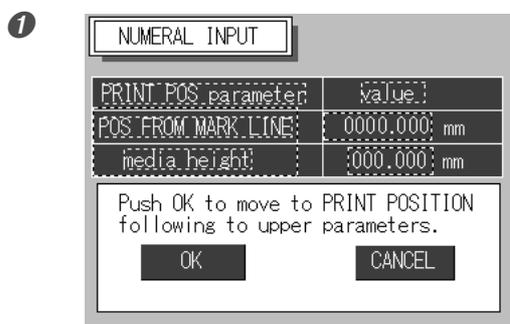


Press [SET UP].

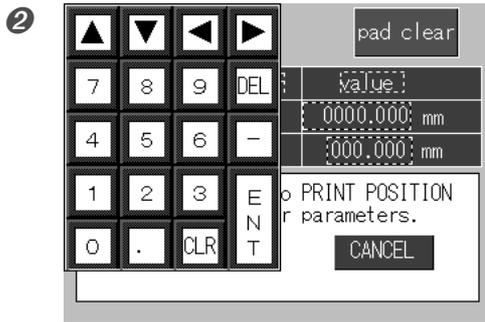


Press the [NUMERAL INPUT].

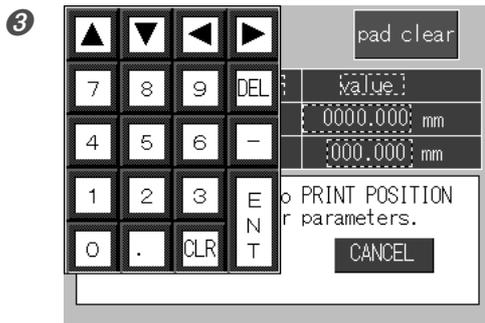
2. Specify the front edge position of the media.



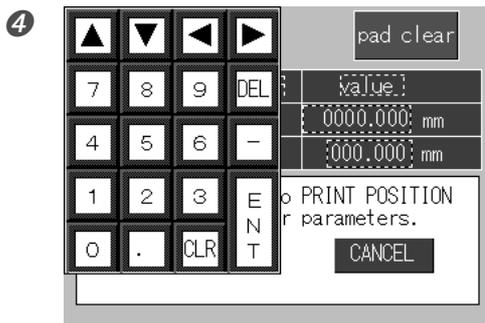
Press [POS FROM MARK LINE].
A numeric keypad appears.



Press the [CLR].
Clear the value on the screen.



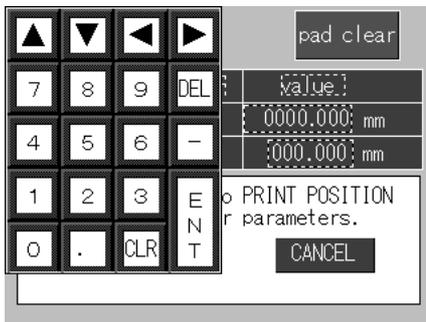
Enter the value.
Enter [0] if printing in alignment with the table's mark line.



Press [ENTER].
The screen switches to [media height].

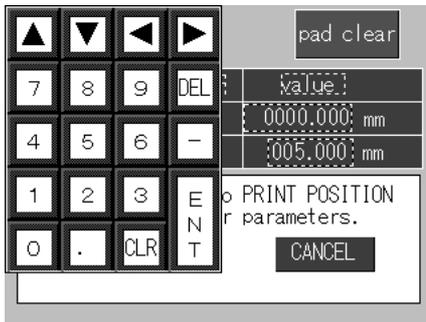
3. Specify the media height.

1



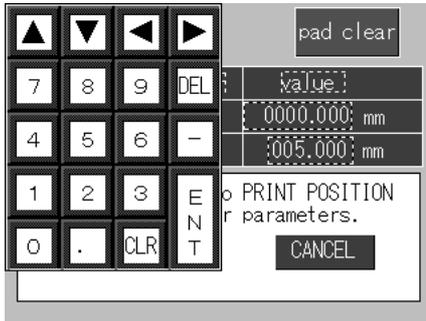
Press the [CLR].
Clear the value on the screen.

2



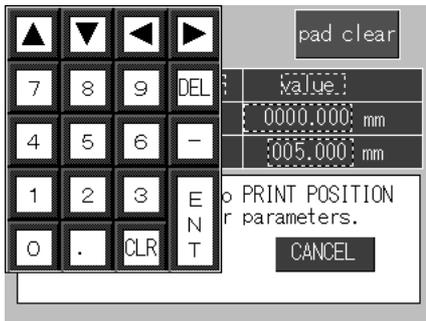
Enter the value.
Enter the media height.
If the rubber mat is on the table, add 1 mm, the thickness of the mat, to the media height.

3



Press [ENTER].

4



Press [pad clear].

5

NUMERAL INPUT	
PRINT POS parameter	value
POS. FROM MARK LINE	:0000.000: mm
media height	:005.000: mm

Push OK to move to PRINT POSITION following to upper parameters.

Press [OK].

The table and lifter move to the position specified by the values, and the printer is ready to print.

<input type="button" value="PRINT"/>	<input type="button" value="MOVE"/>
--------------------------------------	-------------------------------------

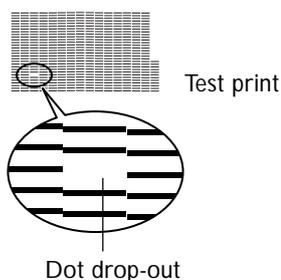
Now printable state.

2-4 Starting to Print

Test Printing and Cleaning

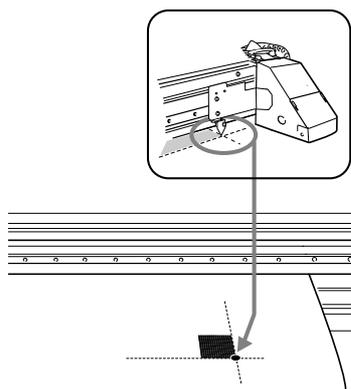
We recommend that you perform a test print to check for problems such as dot drop-outs before you carry out the actual printing. If problems such as dot drop-outs are found, clean the print heads.

How to Perform a Test Print



Hold down **TEST PRINT** for at least 1 second.
A test pattern is printed.

How to Change the Test Print Position



The front cover may be open during movement, but be sure to close it before you press **TEST PRINT**.

 p 58 "Setting the Print Start Position," p 67 "Fine-Adjusting the Print Start Position on the Base Control Panel," p 68 "Fine-Adjusting the Print Start Position on the Printer Control Panel"

How to Perform Cleaning

Hold down for at least 1 second



Close the front cover and hold down **CLEANING** for at least one second to clean the heads. When the operation ends, the initial screen appears.

Perform a test print one more time to check that dot drop-outs have been corrected. If the problem persists, clean the heads again. If the problem is not corrected even after cleaning the heads two or three times, try cleaning using a different method.

 p 41 "When Head Cleaning Is Not Effective"

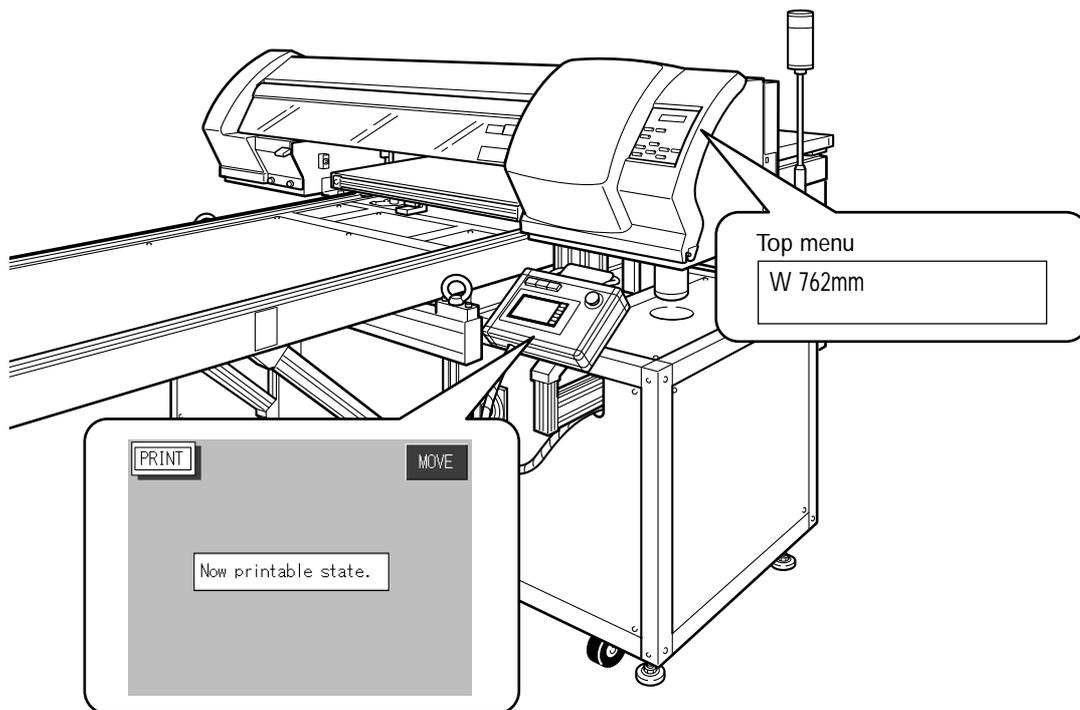
Printing

- ⚠ WARNING** Do not touch the machine while it is printing.
The table and print head move and may cause unexpected injury.
- ⚠ CAUTION** Never insert your hand or fingers into the opening of the front cover or table.
The print heads move at high speed inside the cover. Contact with the print heads may cause injury.

After setting the media and setting the print start position, carry out the procedure below. The printer will be ready to receive data and perform the printing.

Procedure

- ❶ Close the front cover.
- ❷ Check that the top menu is displayed.
If it is not, press **MENU**.
- ❸ Check that the Base Control Panel displays "Now printable state."



Printing Does Not Work in the Following Cases

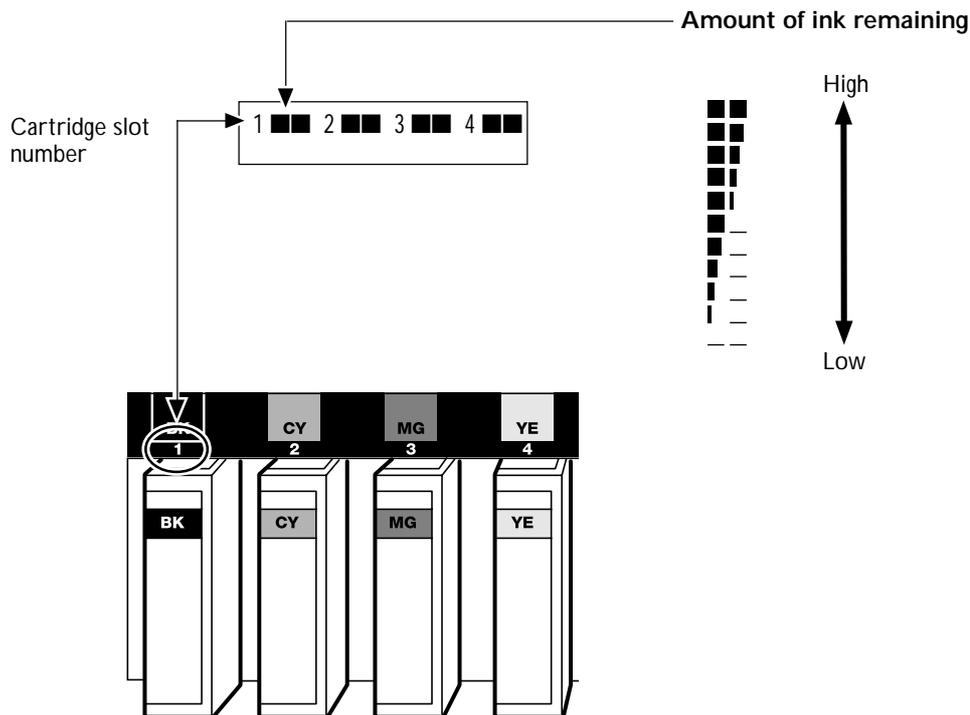
- The printer does not move if the front cover is open. Also, do not open it while printing is in progress. If you do, the printing will be aborted.
- The printer does not move if the print start position is not set. Check that the Base Control Panel displays "Now printable state."

2-5 If Ink Runs Out

Checking for Remaining Ink

Procedure

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

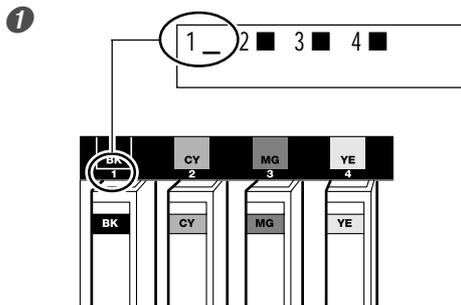


The display shows an approximate level of the remaining ink which may differ somewhat from the actual amount. Also, the displayed information may differ greatly from the actual amount if you insert a partly used ink cartridge or change cartridges while the power is off.

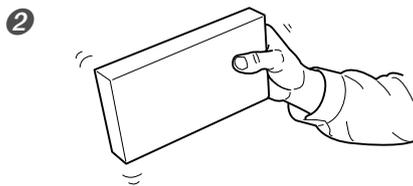
If Ink Runs Out

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.

Work Procedure



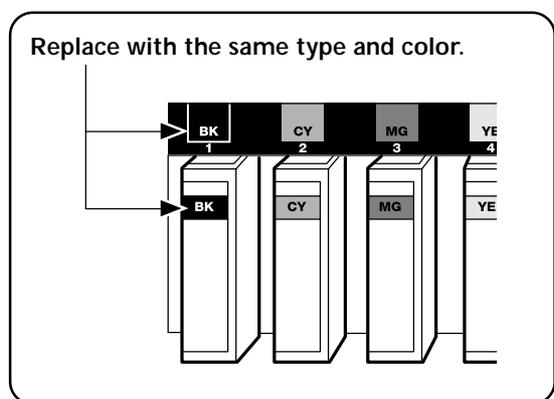
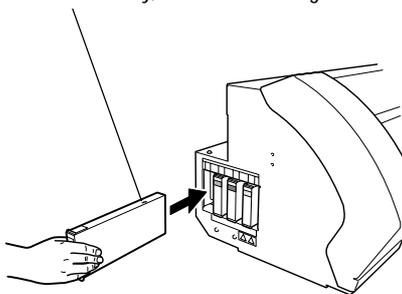
The slot number for the empty cartridge flashes.



Gently shake the new cartridge.

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

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



Important Notes on Replacing Cartridges

- > Be sure to replace with the same type. Never mix different types.
- > Never allow the machine to stand with an ink cartridge removed. The print heads may become clogged.
- > Never insert or remove a partially used ink cartridge.
- > Never remove an ink cartridge suddenly while the printer is in operation.
- > If printing pauses, the color may be off the next time it resumes. Check the remaining amount of ink in the ink cartridge before printing on a long media.

⚠ WARNING 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**
 - > **Near bleach, chemicals, explosives, or the like**
- Doing so may cause fire.

Chapter 3

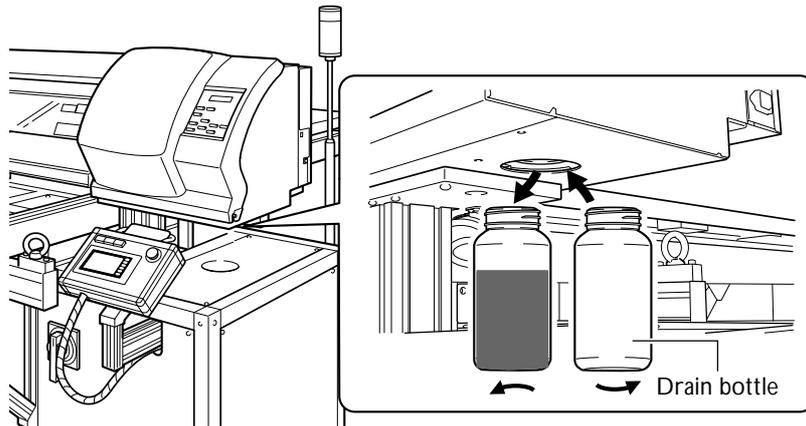
Maintenance

3-1 Daily Care and Maintenance

Disposing of Discharged Ink

The drain bottle collects discharged fluid. Dispose of collected material before the bottle becomes full.

- 1 Press  to raise the lifter to the top.
- 2 Press the SERVO OFF to switch off the sub power.
- 3 Pull out the bottle containing the discharged fluid, and install a new one.

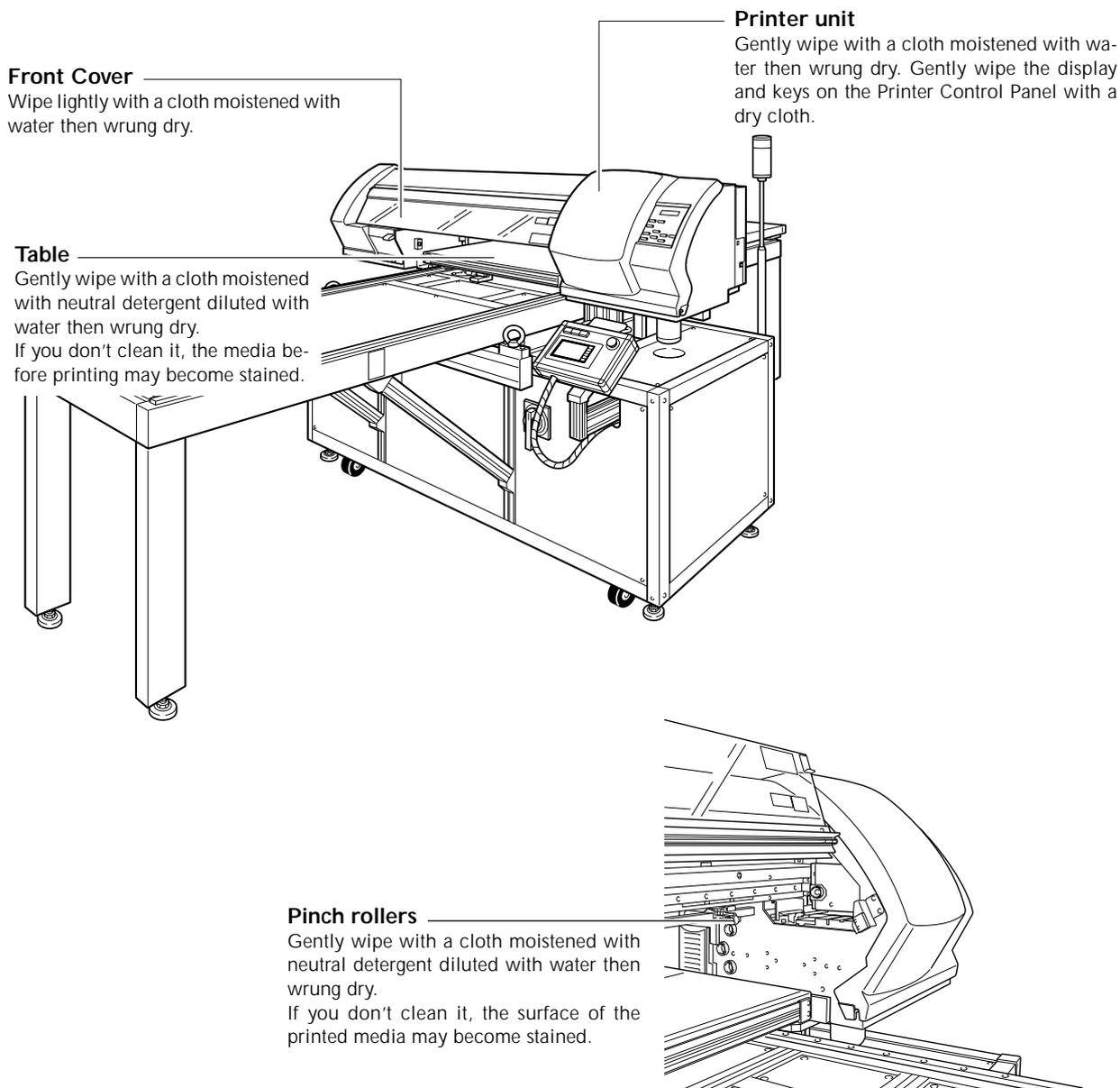


- ⚠ WARNING** Never place ink, cleaning liquid, or discharged fluid in any of the following locations.
 - Near open flame
 - In a hot location, such as near a heater
 - Near bleach, chemicals, explosives, or the likeDoing so may cause fire.
- ⚠ WARNING** Before carrying out the task, switch off the power. The machine may suddenly move, and your fingers or hand may get caught leading to serious injury.
- ⚠ CAUTION** Before carrying out the task, switch off the power. Discharged fluid flows from the tube when the machine is running. 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 may cause fire, odor, or physical distress.

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

Discharged fluid is flammable and contains toxic ingredients. Never attempt to incinerate discharged fluid or discard it with ordinary trash. Also, never dispose of it in sewer systems, rivers, or streams. Doing so may have an adverse impact on the environment.

Cleaning



⚠ WARNING Never place gasoline, alcohol, thinner, or any other flammable material near the machine.
Doing so may cause fire.

- 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 with neutral detergent diluted with water then wrung dry.
- Do not use volatile solvents such as thinner or benzene.
- 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 32 "Test Printing and Cleaning", p 41 "When Head Cleaning Is Not Effective"

Periodic Care and Maintenance

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

☞ p 42 "Cleaning the Heads Using the Cleaning Kit"

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

3-2 When Head Cleaning Is Not Effective

Performing More Powerful Cleaning

When the problems such as dot drop-outs 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.

1. Choose medium cleaning or powerful cleaning.

-  Press  .
Press  .
- 
or

➤ "MEDIUM" : Press  .
➤ "POWERFUL" : Press  and then  .

2. Start cleaning.

-  Press  .
-  When the initial screen appears, cleaning is finished.
-  Press  to go back to the original screen.

When Powerful Cleaning Is Not Effective

If problems such as dot drop-outs 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 42 "Cleaning the Heads Using the Cleaning Kit"

3-3 Cleaning the Heads Using the Cleaning Kit

When the Cleaning Kit Becomes Necessary

If problems such as dot drop-outs 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

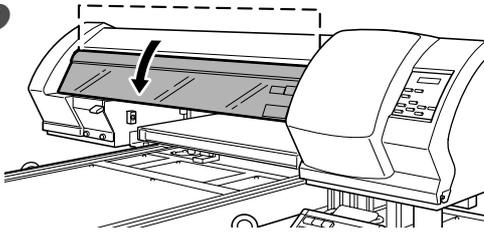
Important Notes on This Procedure

- 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.
- Use only the included cleaning stick. Cotton swabs or other lint-producing items may damage the heads.
- Never touch the nozzle surface of the heads.
- Stroke the sponges very gently, applying as little pressure as possible. Never rub, scrape, or crush them.

⚠ CAUTION Be sure to follow the procedure exactly and only touch the specified locations. Otherwise sudden movement of the machine may cause injury.

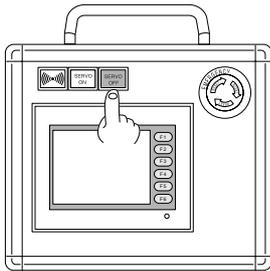
1. Change to the print-head manual-cleaning mode.

①



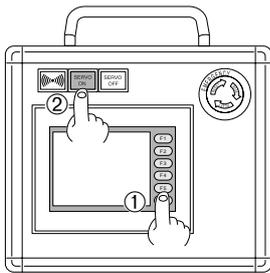
Remove any media from the table and close the front cover.

②



Press the SERVO OFF to switch off the sub power.

③



① Press the F5 button.

Check that the screen displays [MAINTENANCE MODE].

② Press the SERVO ON to switch on the sub power.

④



Press  or  to select [CLEANING].

Press .

⑤

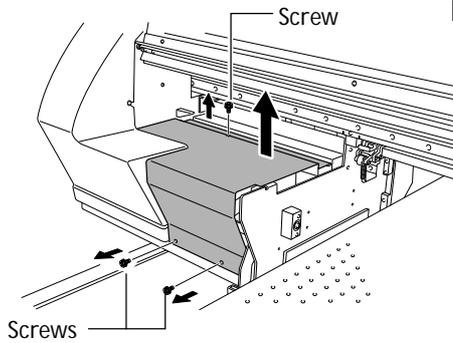


When this screen appears, the printer is ready for maintenance.

2. Remove the cover.

1 Open the front cover and lower the loading lever.

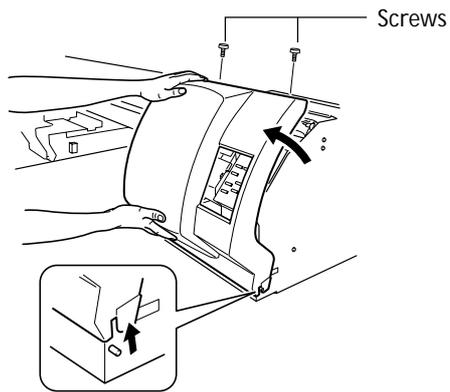
2 Remove the maintenance cover.



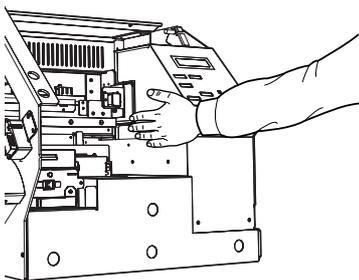
3 Close the front cover and press **ENTER**.



When the screen shown in the figure appears, open the front cover and remove the right side cover.

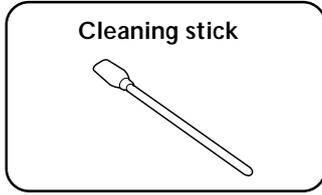


5 Touch the location shown in the figure to discharge any static electricity.



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

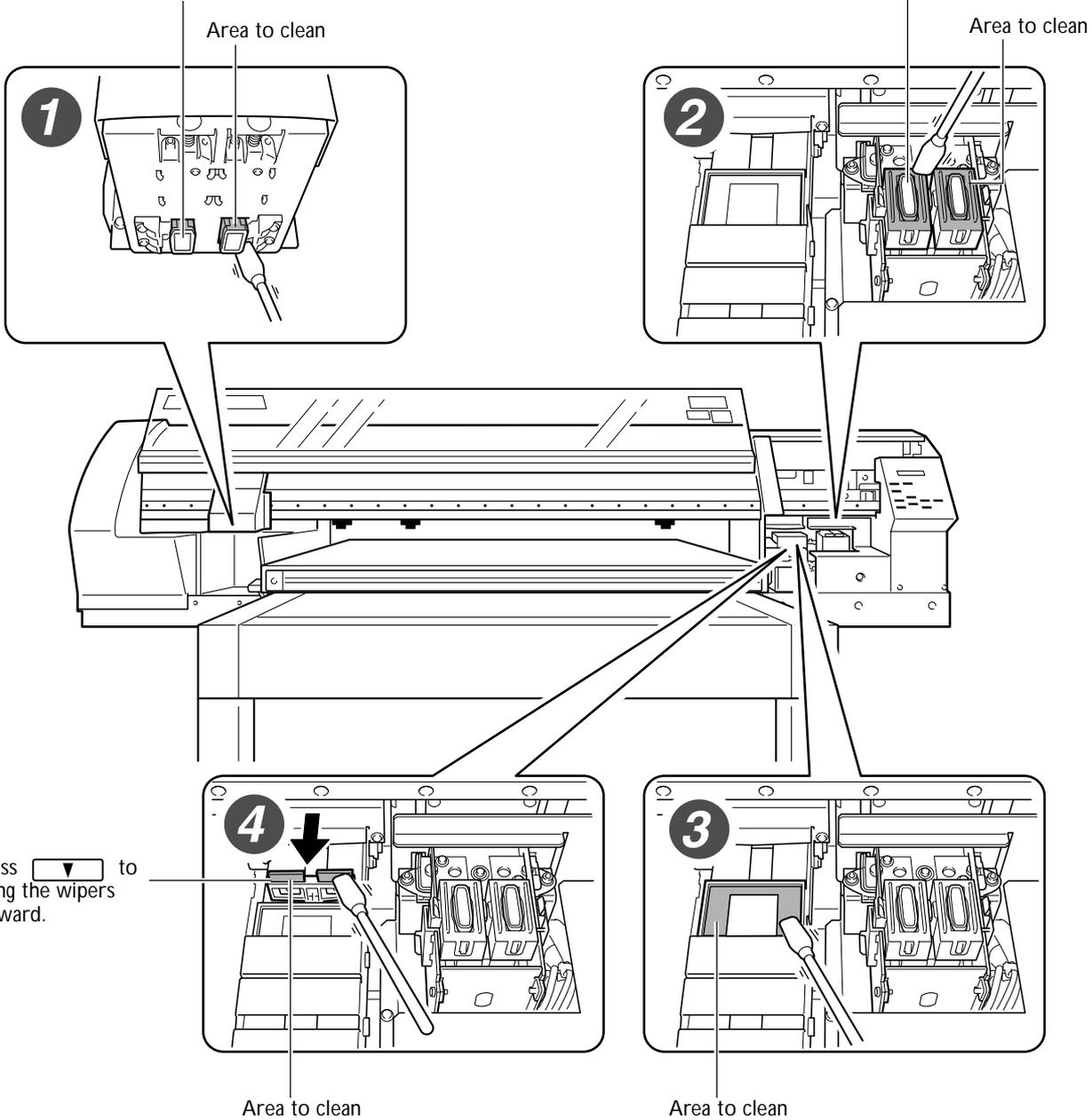
Clean in the sequence shown in the figure below.



Be sure to clean using one of the included cleaning sticks

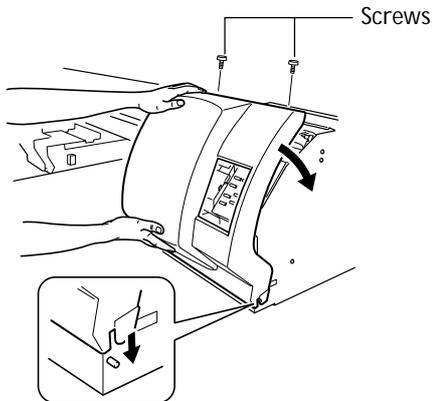
 **Never touch the nozzle surface.**
Clean only the metal frame.

Gently stroke with the sponge.
Never rub with force.



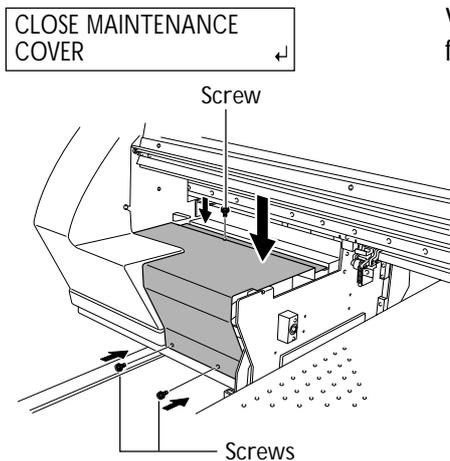
4. Reattach the covers and quit the manual cleaning mode.

- ① Attach the right side cover and close the front cover.



- ② Press **ENTER** .
An operation to exit from the manual cleaning mode starts.

- ③ When the screen shown in the figure appears, open the front cover and attach the maintenance cover.



- ④ Close the front cover and press **ENTER** .
The sub power switches off.

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

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

3-4 Replacing Parts That Wear Out

Replacing the Wipers

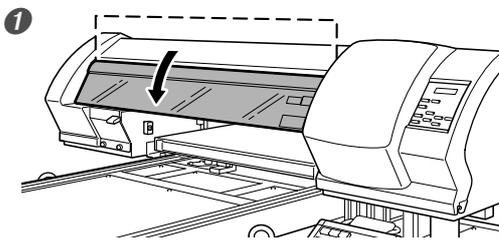
TIME FOR
WIPER REPLACE ↵

Press **ENTER** .

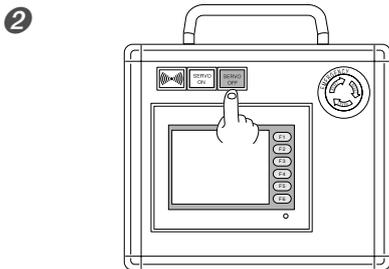
The wipers used when cleaning the print heads. When the screen displays a message like the one shown, it means that the wipers need to be replaced. Replace with new wipers.

⚠ CAUTION Be sure to follow the procedure exactly and only touch the specified locations. Otherwise sudden movement of the machine may cause injury.

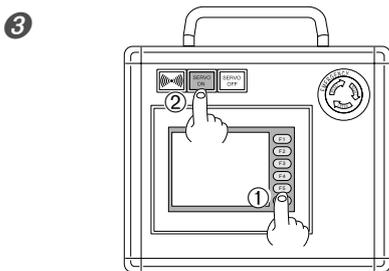
1. Change to the print-head manual-cleaning mode.



Remove any media from the table and close the front cover.



Press the SERVO OFF to switch off the sub power.



- ① Press the F5 button.
Check that the screen displays [MAINTENANCE MODE].
- ② Press the SERVO ON to switch on the sub power.

4

MAINTENANCE
WIPER REPLACE ↵

Press **▲** **▼** to select [WIPER REPLACE].
Press **ENTER** .

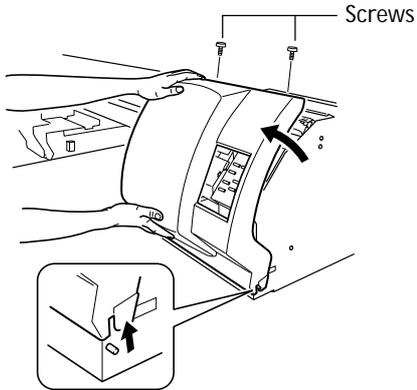
5

INSERT STOPPER ↵

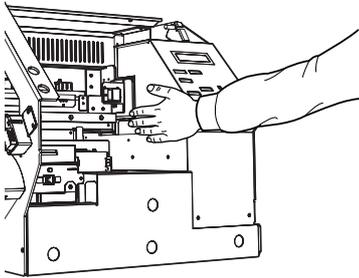
When this screen appears, the printer is ready for maintenance.

2. Remove the cover and attach the stoppers.

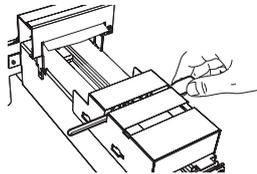
- 1 Remove the right side cover.



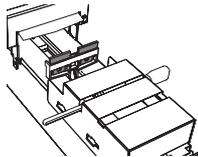
- 2 Touch the location shown in the figure to discharge any static electricity.



- 3 Attach the stoppers at the locations shown in the figure. For the stopper, use a cleaning stick or the like.

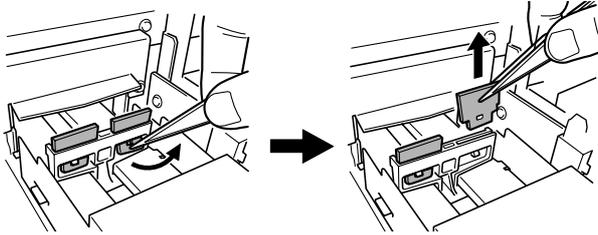


- 4 Press **ENTER** . The wiper moves.



3. Replace the wipers. Use the included tweezers.

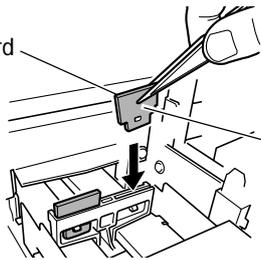
1



Remove the old wipers.
Take them off the hook and pull up.

2

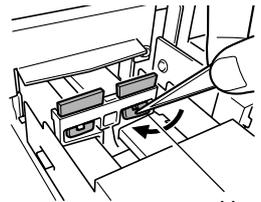
Felt surface toward
the rear



Rubber surface
toward the front

Insert new wipers.

3



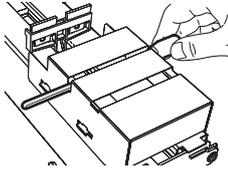
Hook

Engage the wipers on the hooks.

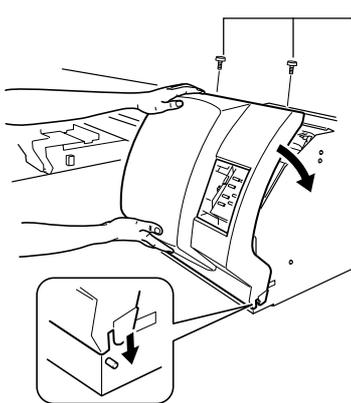
4. Quit the wiper replacement mode.

① REMOVE STOPPER 

Check that the screen shown on the figure is displayed, and remove the stopper.



②



Screws Attach the right side cover.

③ Press **ENTER** .

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

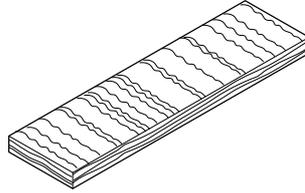
5. Perform a test print to verify the results of the procedure.

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

Replacing the Ink-Absorbing Material

TIME FOR
SPONGE REPLACE ↵

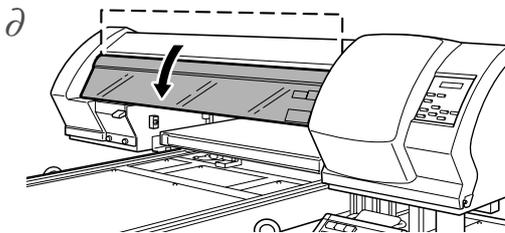
If the screen shown in the figure appears, replace the ink-absorbing material with a new one.



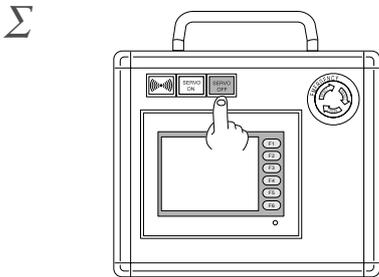
Ink-absorbing material

⚠ CAUTION Be sure to follow the procedure exactly and only touch the specified locations. Otherwise sudden movement of the machine may cause injury.

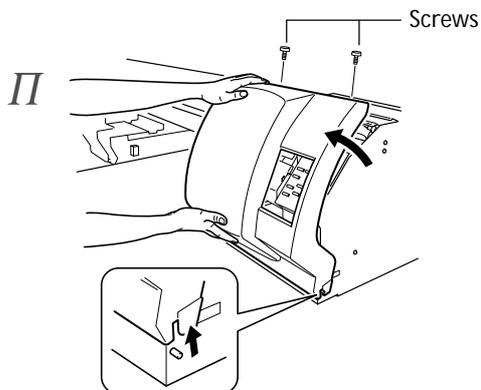
Replacement



Remove any media from the table and close the front cover.

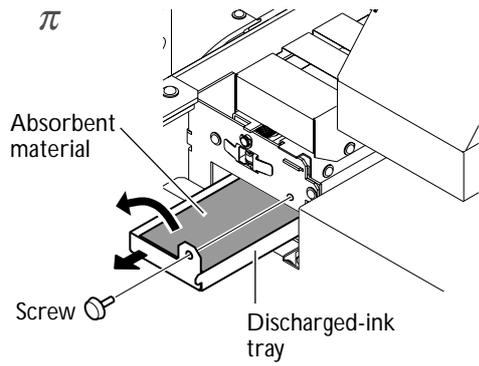


- ① Press the SERVO OFF to switch off the sub power.
- ② Switch off the main power switch.

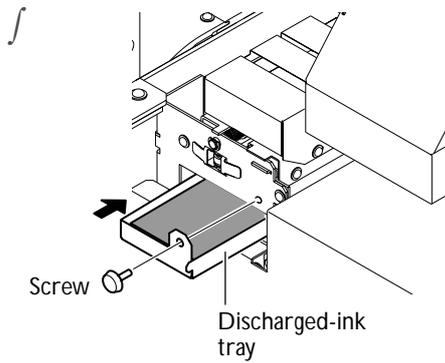


Remove the right side cover.

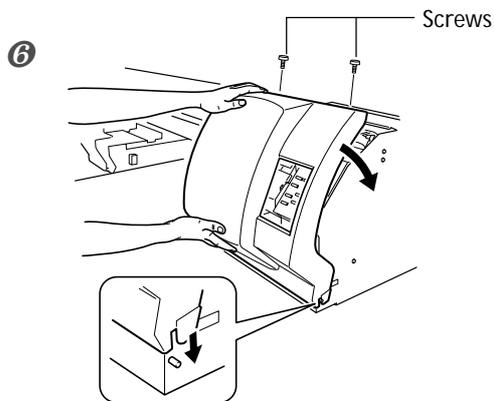
3-4 Replacing Parts That Wear Out



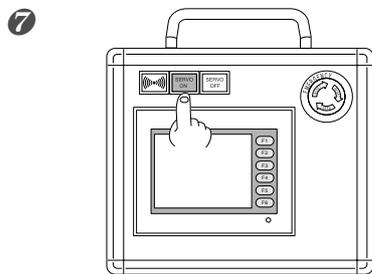
Pull out the discharged-ink tray and replace the absorbent material.



Secure the discharged-ink tray in place.



Attach the right side cover.



- ① Switch on the main power switch.
- ② Press the SERVO ON to switch on the sub power.



Press **ENTER** .

Dispose of used absorbent material in accordance with your local laws.

3-5 When Not in Use for a Prolonged Period

Keep Performing Maintenance

Switch On the Power Once a Month

Switch on the sub power at least 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 humidity of 20 to 80% (with no condensation). Temperatures that are too high may degrade the ink and cause malfunction. Temperatures that are too low may cause the ink to freeze and damage the heads.

Alarm Feature

PRESS THE POWER
KEY TO CLEAN

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

Chapter 4

Feature Reference

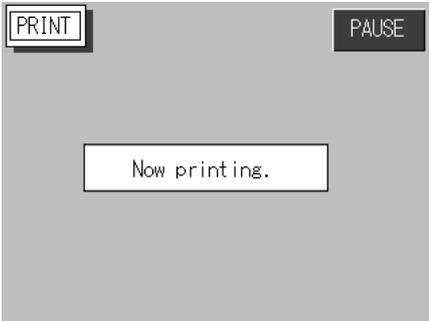
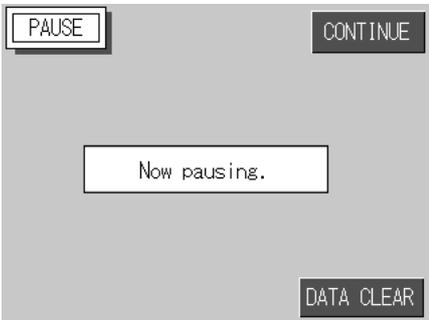
4-1 Canceling or Pausing Printing

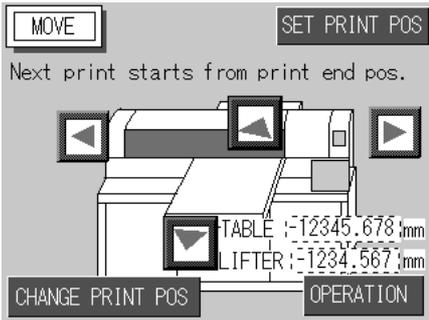
Canceling Printing

Canceling from the Printer Control Panel

-  Press  .
The screen shown in the figure appears.
-  Hold down  for at least 1 second.
The screen shown in the figure appears.
- Stop sending printing data from the computer.

Canceling from the Base Control Panel

-  Press [PAUSE].
-  Press [DATA CLEAR].
-  Press [OK].



When the screen shown in the figure appears, the printing cancellation is finished.

- 4 Stop sending printing data from the computer.

Pausing Printing

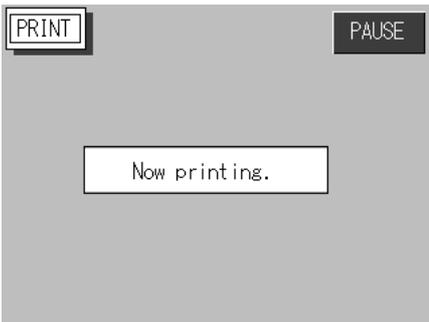
Pausing from the Printer Control Panel

Press **PAUSE** .
The PAUSE light comes on and the printing is paused.

Description

If you press **PAUSE** again while the printing is paused, the printing resumes. However, horizontal stripes may appear at the pause position.

Pausing from the Base Control Panel



Press **[PAUSE]**.
Printing is paused.

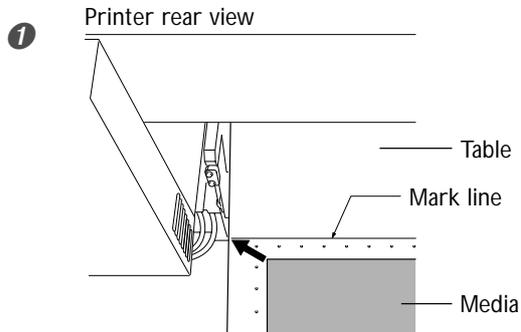
Description

If you press **[CONTINUE]** while the printing is paused, the printing resumes. However, horizontal stripes may appear at the pause position.

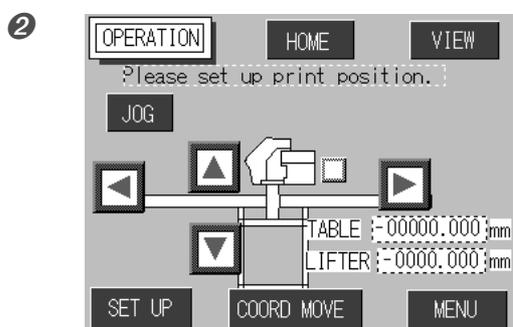
4-2 Setting the Print Start Position

Searching the Print Start Position Automatically

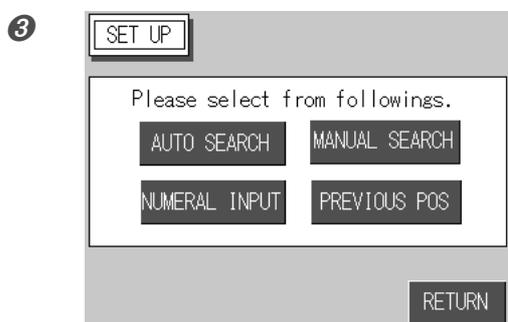
Procedure



Set the media by aligning with the mark line.



Press [SET UP].



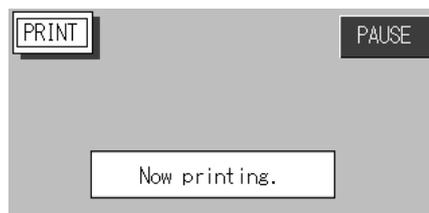
Press [AUTO SEARCH].



Press [SCAN START].

The machine moves and automatically searches the position where the media is set.

When this screen appears, the search is complete.



Description

The front edge and the upper edge of the media can be searched automatically. Automatic search is possible on media up to 95 mm in thickness.

Be sure to set the media at the mark line. If you set it short of the mark line, the media may not be detected.

The print start position cannot be automatically searched on the types of media listed below. For these types of media, set the print start position using [NUMERAL INPUT].

- Media whose thickness is less than or equal to 3 mm.
- Media whose front edge or upper edge is not horizontal
- Transparent media
- Luminous media
- Media whose side face contains holes that the sensor passes through.

To set the print start position more accurately, use [NUMERAL INPUT].

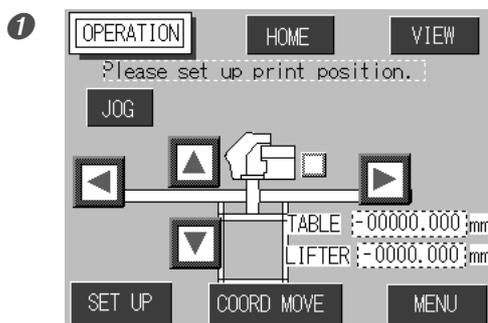
A searched position may be off by several millimeters. If this happens, adjust the print start position offset.

☞ p 79 "Adjusting the Print Start Position Offset"

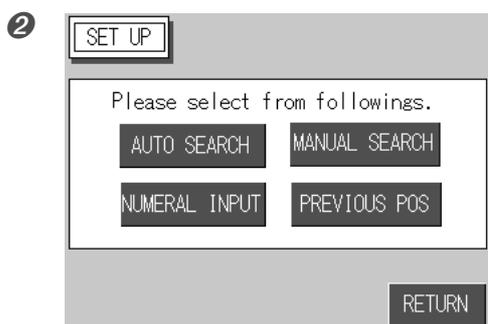
Manually Setting the Print Start Position

Procedure

1. Set the printer so that manual setting can be performed.

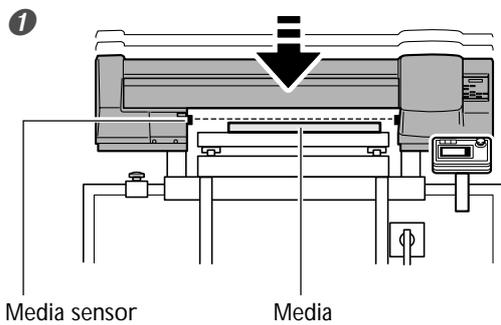


Press [SET UP].

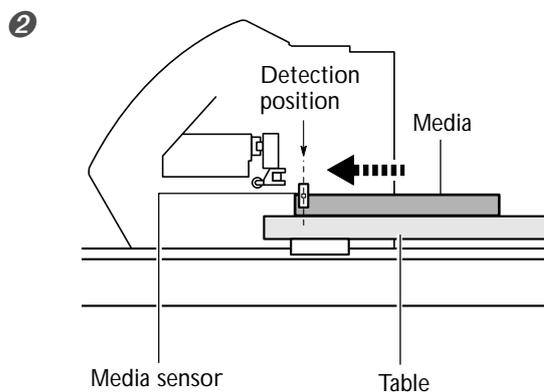


Press [MANUAL SEARCH].

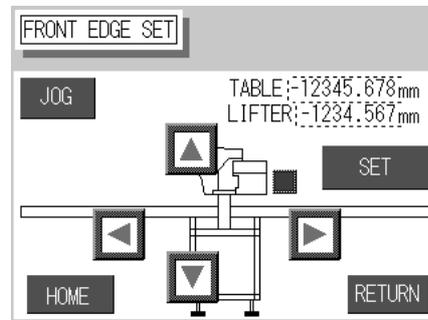
2. Bring the media sensor close to the media front edge.



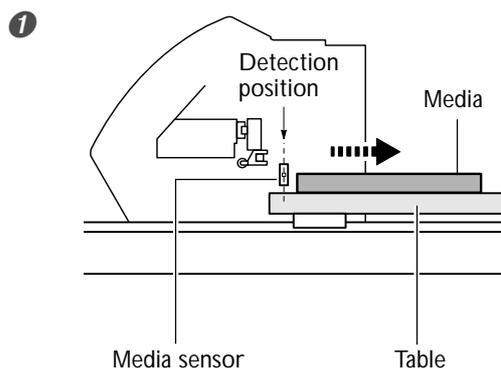
Press  to lower the lifter so that it is close the upper edge of the media.



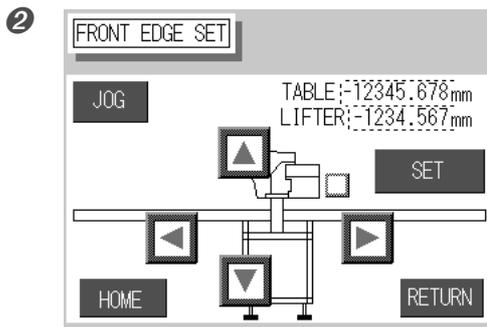
Press  to move the table toward the front end until the media sensor detects the media. When the sensor detects the media, the  mark changes to black.



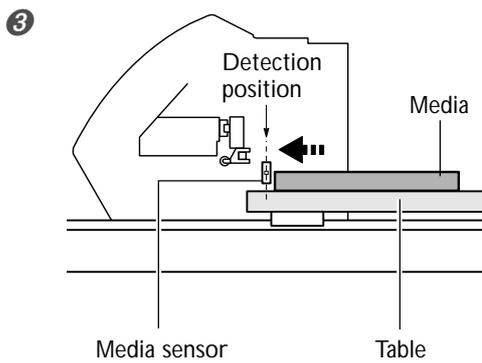
3. Set the front edge position of the media.



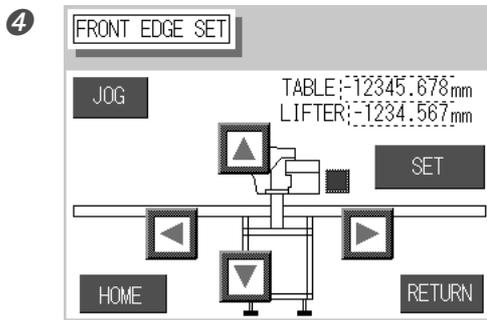
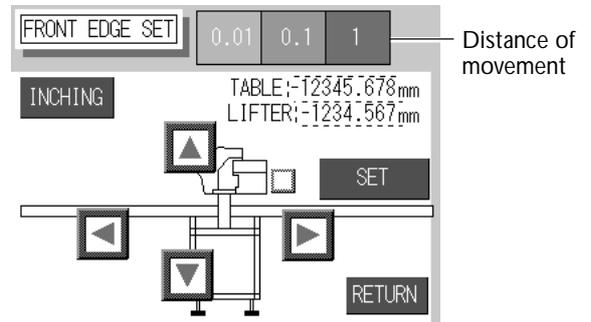
Press  to move the table toward the back end.



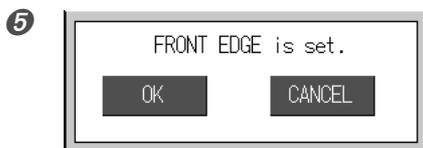
Press [JOG].



Select the distance of movement and press to move the table toward the front end.

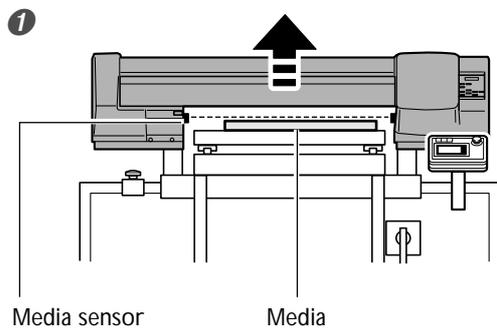


Press [SET] at the position where the mark on the screen changes to black.

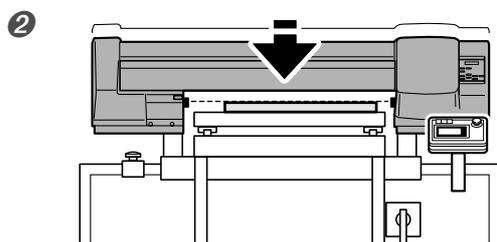


Press [OK].

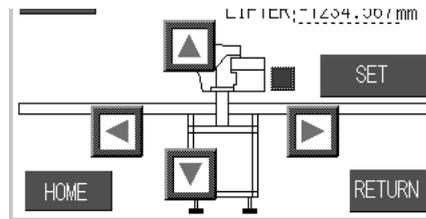
4. Bring the media sensor close to the media upper edge.



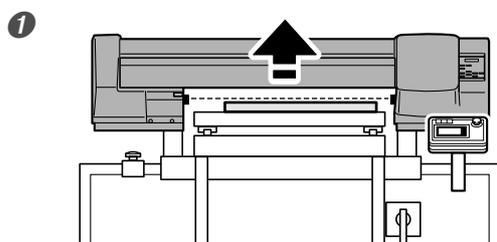
Press to move the lifter away from the media upper edge by a small distance.
Check that the mark on the screen is white.



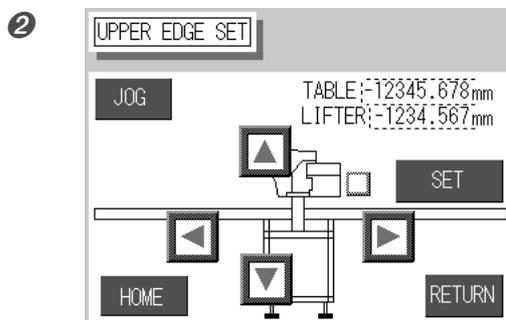
Press to move the lifter closer to the media upper edge until the sensor detects the media.
When the sensor detects the media, the mark changes to black.



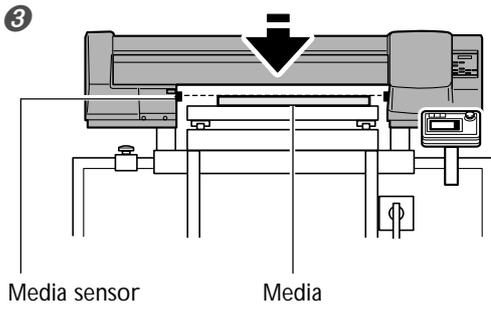
5. Enter the media thickness.



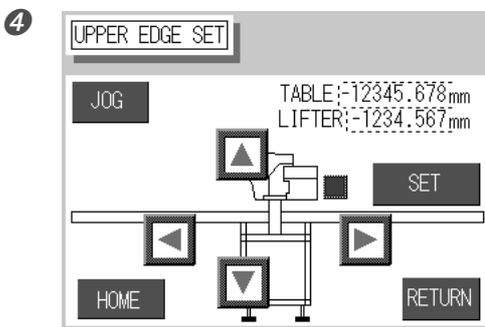
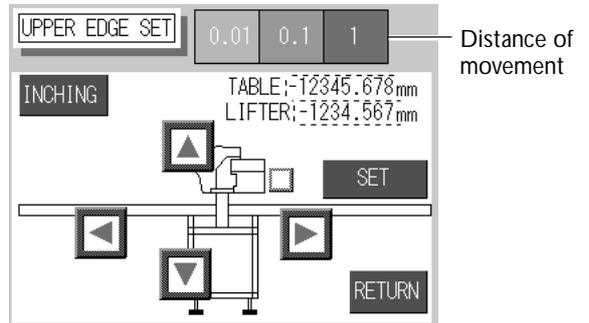
Press to move the table toward the upper edge.



Press [JOG].



Select the distance of movement and press to move the lifter close to the media.



When the mark changes to black, press [SET].



Press [OK].
The lifter and table move to the set positions.

Description

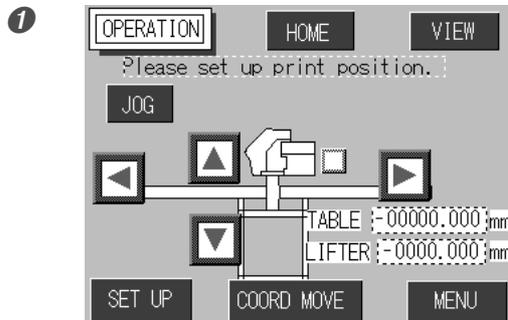
Manual setting is used in the following cases.

- > Media whose thickness is not uniform
- > Media whose front edge is not straight
- > Media whose shape is difficult to be scanned through auto search
- > Media whose side face contains holes that the sensor passes through.
- > When you wish to set the start position more accurately.

The media is detected when the mark of the media sensor changes from white to black. To detect the start position more accurately, set the distance that the table and lifter move when the cursor is pressed once to a smaller value. You can change the distance of movement by pressing [JOG] and then changing the value by pressing [INCHING].

Printing from the Same Position as the Previous Time

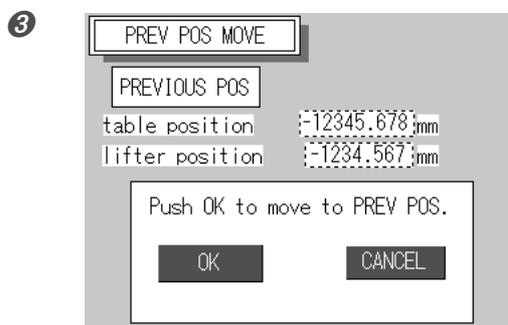
Procedure



Press [SET UP].



Press [PREVIOUS POS].

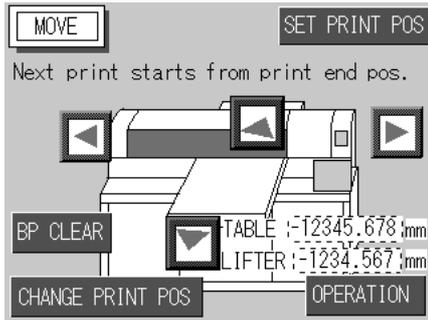


Check the position and press [OK].
The print start position is set to the previous print start position.

Description

The print start position that was set the previous time can be recalled. This is used when printing from the same position as the previous time.

4-3 Setting the Print Start Position When Continuing Printing

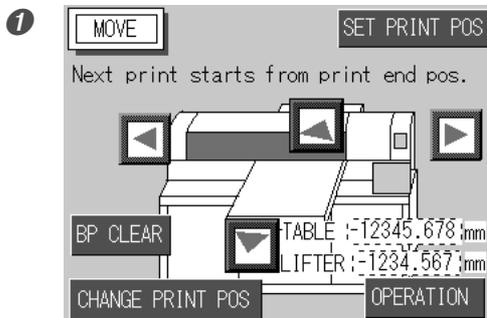


The screen shown in the figure appears when printing is finished.

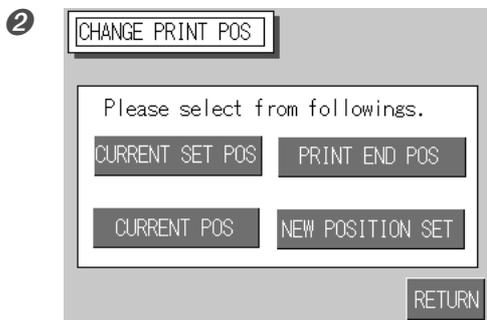
The next print start position varies depending on the screen message.

Printing from the Same Position as the Previous Time

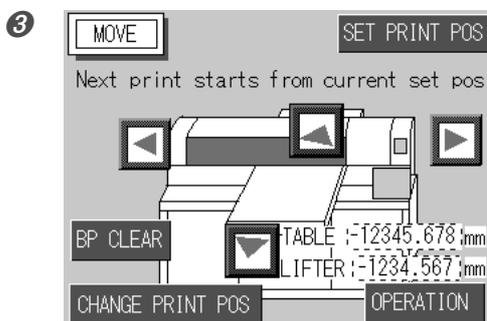
Procedure



Press [CHANGE PRINT POS].



Press [CURRENT SET POS] and then [RETURN].



Press [SET PRINT POS].

The printer moves to the previous set position.

The screen shown in the figure appears, and the printer is ready to print.



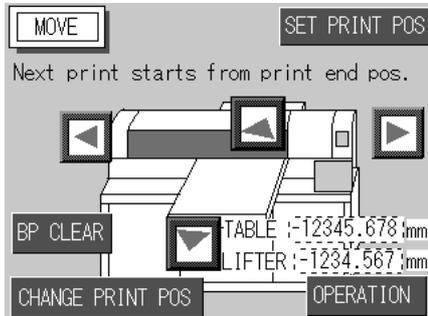
Description

The print start position that was set the previous time can be recalled. This is used when printing from the same position as the previous time.

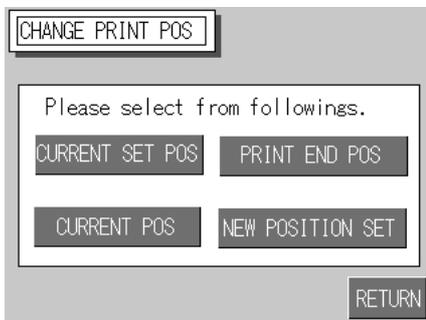
Performing the Next Print from the Position Where Printing Ended

Procedure

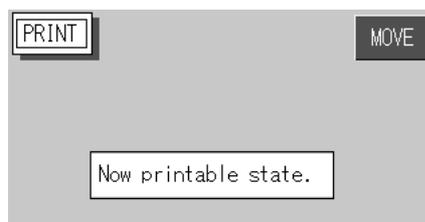
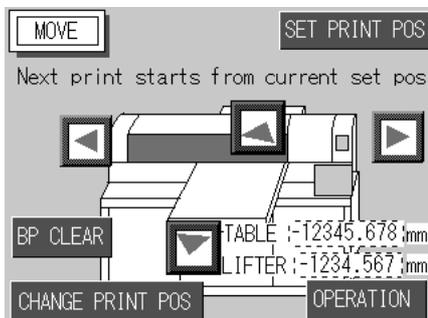
- 1 Press [CHANGE PRINT POS].



- 2 Press [PRINT END POS] and then [RETURN].



- 3 Press [SET PRINT POS].
The printer moves to the position where the previous printing ended. The screen shown in the figure appears, and the printer is ready to print.



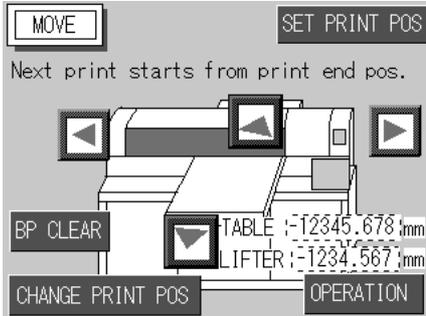
Description

This menu is used when you wish to continue printing from the position where the previous printing ended.

Fine-Adjusting the Print Start Position on the Base Control Panel

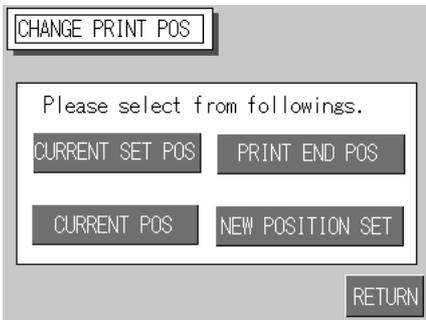
Procedure

1



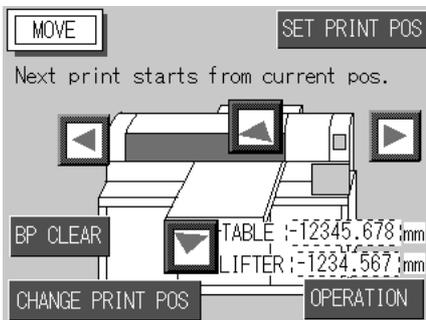
Press [CHANGE PRINT POS].

2



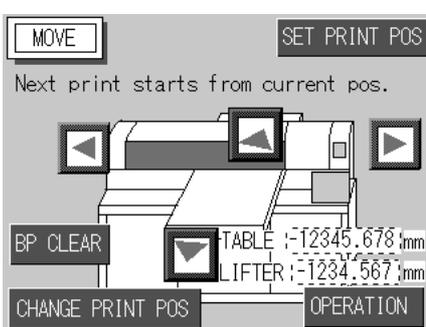
Press [CURRENT POS] and then [RETURN].

3



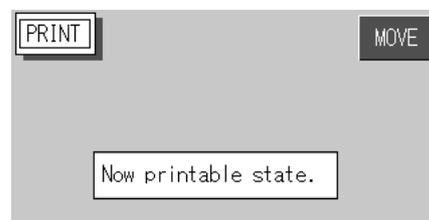
Use the cursors on the screen to move the lifter and table.

4



Press [SET PRINT POS].

The screen shown in the figure appears, and the printer is ready to print.



Description

You can fine-adjust the print start position using cursors. This adjustment can be performed only when [CURRENT POS] is selected for the print start position. The print start position set with the cursors are cleared when the first printing is finished.

Fine-Adjusting the Print Start Position on the Printer Control Panel

Procedure

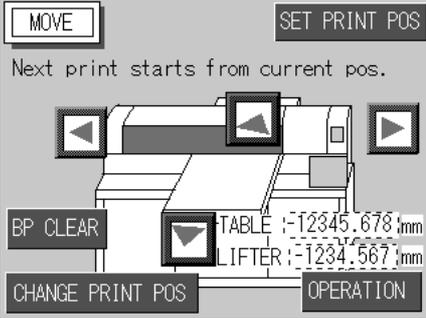
- 1 Press  and  to move the print head.
- 2 Press the .

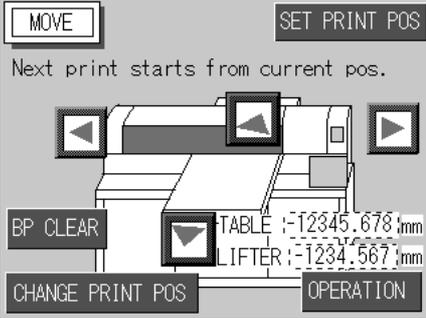
Description

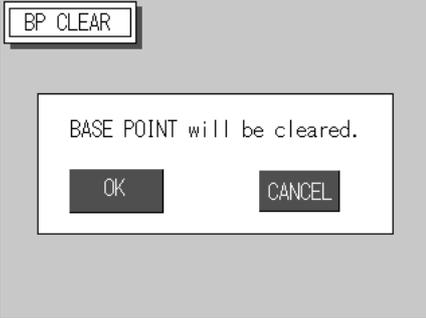
You can fine-adjust the print start position using cursors. The print start position set with the cursors are cleared when the first printing is finished. When the position is set, the  light comes on.

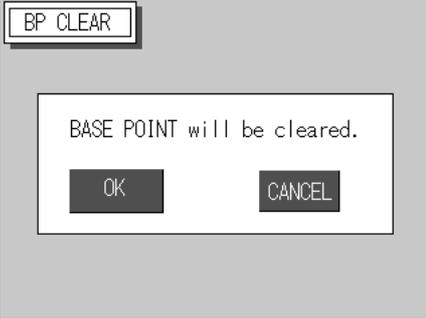
Clearing the Print Start Position That Has Been Fine-Adjusted

Procedure

- 1  Press [BP CLEAR].



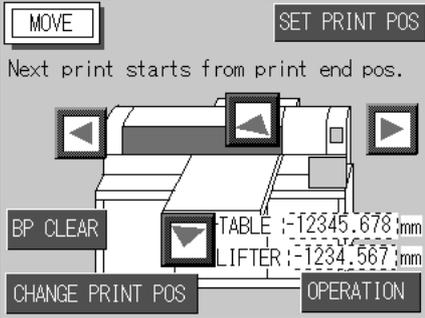
- 2  Press [OK].

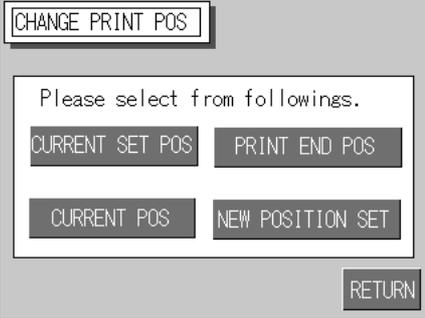


Description

The print start position that has been fine-adjusted from the Base Control Panel or Printer Control Panel is cleared.

Setting a New Start Position

- ①  Press [CHANGE PRINT POS].

- ②  Press [NEW POSITION SET] and then [RETURN].

- ③  The screen shown in the figure appears.

☞ p 28 "Specifying the Print Start Position", p 58 "Setting the Print Start Position"

Description

You can set a new print start position by selecting the setup method from the SET UP menu.

4-4 Optimizing Printing

Performing Feed Correction to Alleviate Horizontal Stripes and the Like

Procedure

1. Print a test pattern.

1.

MENU	▾
CALIBRATION	▶

 Press

MENU

 .
Press

▼

 several times.
2.

CALIBRATION	◀
PRINTING ADJ.	▶

 Press

▶

 .
3.

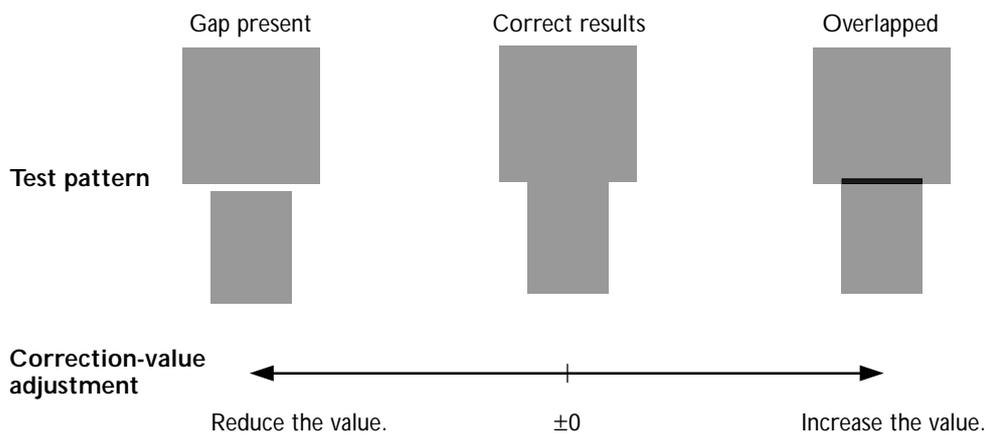
PRINTING ADJ.	◀
TEST PRINT	↵

 Press

ENTER

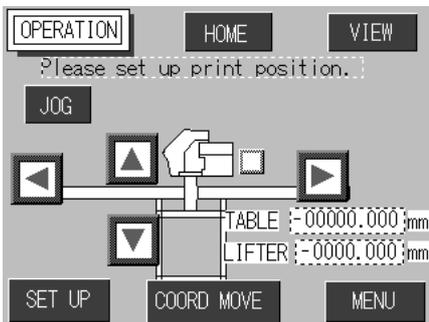
 to start printing.

2. Check the test pattern you printed.

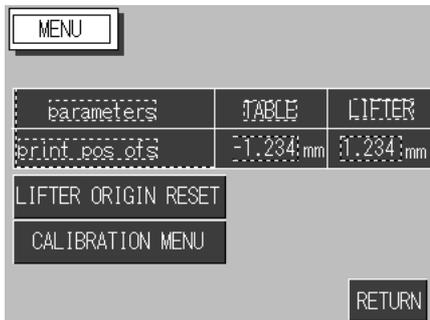


3. Enter the correction value.

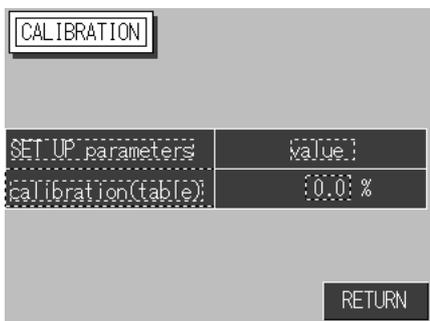
- ① Press [MENU].



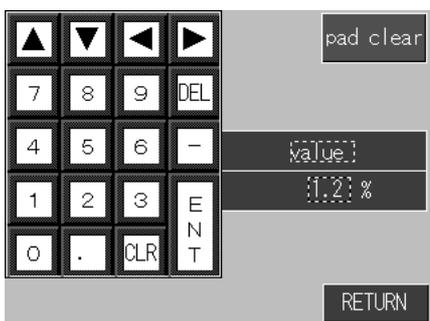
- ② Press [CALIBRATION MENU].



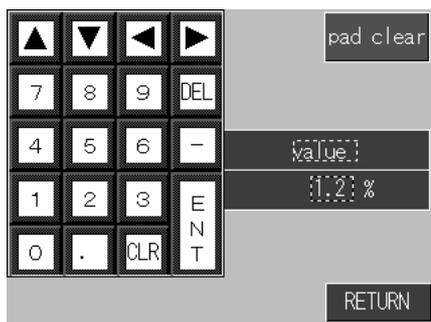
- ③ Press [calibration (table)].
A numeric keypad appears.



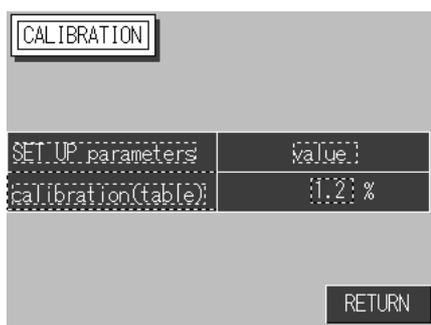
- ④ Press the [CLR] key.
Enter the value and press [ENT].



- 5 Press [pad clear].



- 6 Press [RETURN].



Description

This feature corrects the error in the table feeding.

When the amount of feeding is corrected, the precision of dot positions along the feeding direction improves which achieves better print quality.

Default setting

[calibration (table)]: 0.0 %

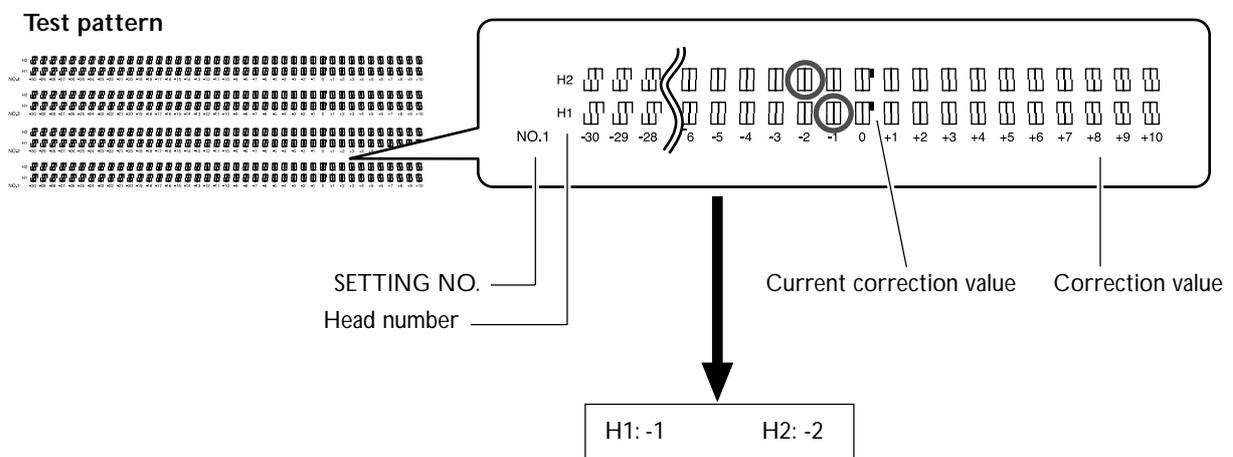
Correcting for Misalignment in Bidirectional Printing

Procedure

1. Print a test pattern.

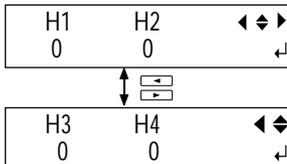
- 1  Press .
- 2  Press .
Press  to start printing.

2. Read the correction values from the test pattern.



3. Enter the correction values that you read.

Enter correction values H1 through H4 for each setting number (SETTING NO. 1 through 4), for a total of 16 correction values.

- 1  Press .
- 2  Press .
Press  or  to select. Press  or  to set the correction values.
Press  to finish SETTING NO. 1.

3

ADJUST BI-DIR SETTING NO.2	◀◆▶
-------------------------------	-----

 Press

▼

 .

4

H1	H2	◀◆▶
0	0	↵

 Press

▶

 .
Press

◀

 or

▶

 to select. Press

▲

 or

▼

 to set the correction values.

↕
◀◆▶

H3	H4	◀◆▶
0	0	↵

 Press

ENTER

 to finish SETTING NO. 2.

5

ADJUST BI-DIR SETTING NO.3	◀◆▶
-------------------------------	-----

 Press

▼

 .

6

H1	H2	◀◆▶
0	0	↵

 Press

▶

 .
Press

◀

 or

▶

 to select. Press

▲

 or

▼

 to set the correction values.

↕
◀◆▶

H3	H4	◀◆▶
0	0	↵

 Press

ENTER

 to finish SETTING NO. 3.

7

ADJUST BI-DIR SETTING NO.4	◀◆▶
-------------------------------	-----

 Press

▼

 .

8

H1	H2	◀◆▶
0	0	↵

 Press

▶

 .
Press

◀

 or

▶

 to select. Press

▲

 or

▼

 to set the correction values.

↕
◀◆▶

H3	H4	◀◆▶
0	0	↵

 Press

ENTER

 to finish SETTING NO. 4.

4. Go back to the original screen.

W 762mm

 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 75 "Saving Bidirectional Correction Values", p 75 "Loading Bidirectional Correction Values"

Saving Bidirectional Correction Values

Procedure

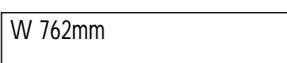
- 1  Press .
- 2  Press .
Press  several times.
- 3  Press .
Press  or  to select the presetting number.
Press  to save.
- 4  Press  to go back to the original screen.

Description

This procedure saves the current correction values in memory. You can save 8 sets of settings in memory 1 to 8. Overwriting a memory deletes any old correction values it contains.

Loading Bidirectional Correction Values

Procedure

- 1  Press .
- 2  Press .
Press  several times.
- 3  Press .
Press  or  to select the presetting number.
Press  to load.
- 4  Press  to go back to the original screen.

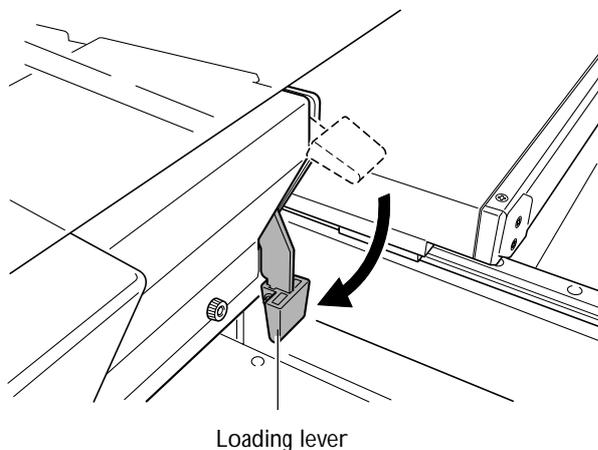
Description

This procedure 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.

4-5 Setting Various Types of Media

Setting Media That Floats or Bends Easily

Procedure

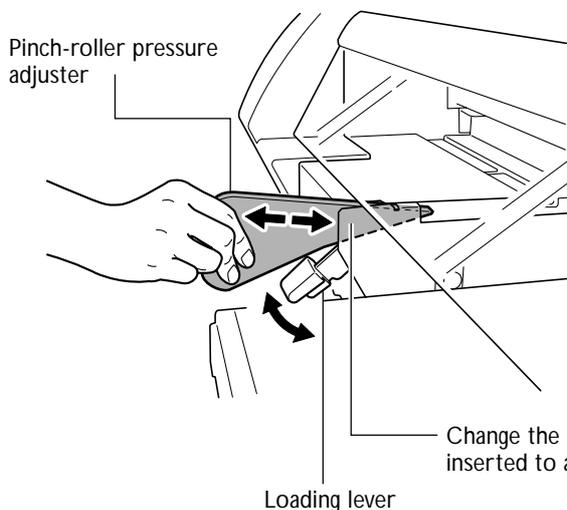


Lowering the loading bar causes the pinch rollers to lower and fix the media in place.

Description

When setting media that floats or bends easily such as paper, pinch rollers are used to hold it down.

Fixing soft media in place with pinch rollers



When pinch rollers are used to fix soft media in place, the pinch rollers may leave marks on the media. In such cases, use a pinch roller adjuster to adjust the pressure. Adjust the amount that the adjuster is inserted according to the thickness or material of the media.

Printing on Hard-to-dry Media

Procedure

- 1  Press  .
Press  several times.
- 2  Press  .
Press  or  to set the value.
Press  to enter.
- 3  Press  to go back to the original screen.

Description

You use this feature when ink dries poorly. Larger values produce progressively slower movement of the media, enabling you to extend the drying time accordingly. However, printing takes that much longer.

You can also enter this setting on the computer. When you enter 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

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

Description

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

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

“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.

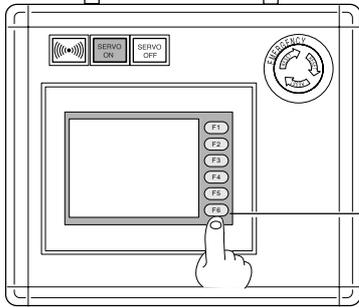
Default setting

[FULL WIDTH S]: ENABLE

4-6 Changing the Printer Operation

Changing the Displayed Language

Procedure



Press the F6 button.
Press the F6 button again to switch the language.

F6 Button

Description

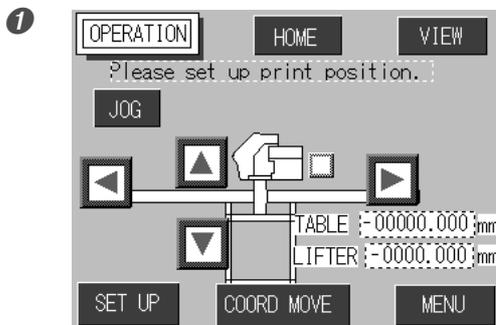
This button switches the language shown on the screen.

Default setting

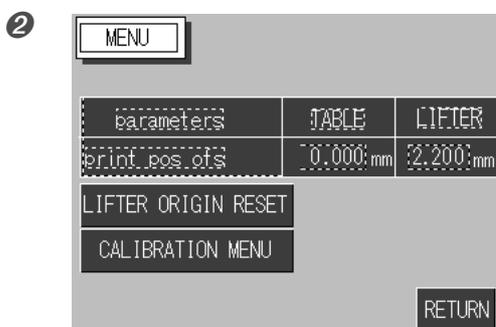
ENGLISH

Adjusting the Print Start Position Offset

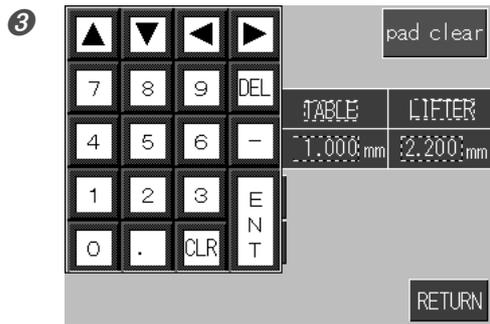
Procedure



Press [MENU].

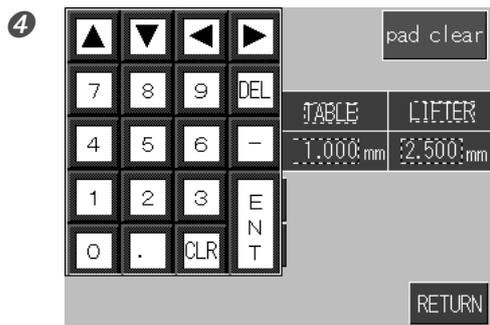


Press [print pos ofs].

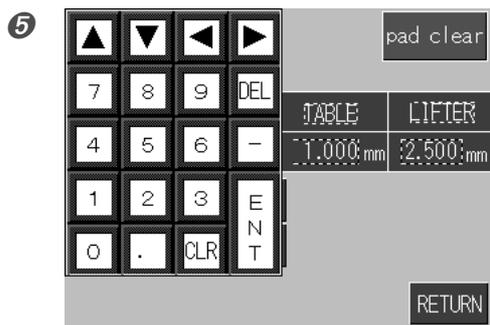


Enter the table offset.

If entering the table offset is not necessary, press [ENTER]. The input mode moves to [LIFTER].



Enter the lifter offset.



Press [pad clear].

Description

This feature corrects the print start position offset. Use it when you wish to change the start position of the actual printing from the searched start position.

Default setting

[TABLE]: 0.00 mm
[LIFTER]: 2.20 mm

Setting How the Printer Operates When Ink Runs Out

Procedure

- 1  Press  .
Press  several times.
- 2  Press  twice.
Press  or  to select.
Press  to enable the setting.
- 3  Press  to go back to the original screen.

Description

This lets you change, according to your purpose, the operation that takes place when an ink cartridge is empty. [STOP] is a mode in which operation immediately pauses 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  to pause printing. Note that operation does not stop even if the ink runs out completely.

Default setting

[EMPTY MODE]: STOP

Resetting Print Head Settings to Their Initial Values

Procedure

- 
- Press
- 
- .
-
- Press
- 
- several times.
-
- Press
- 
- to execute.

Printing a System Report

Procedure

-  Press  .
Press  several times.
Press  to start printing.
-  Press  to go back to the original screen.

Description

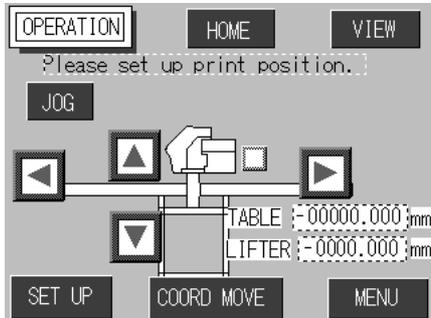
This feature prints system information, including a list of setting values.

4-7 Moving the Table and Lifter

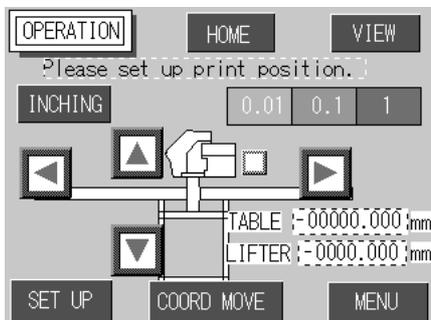
Operating from the Base Control Panel

Moving the Table and Lifter Using Cursors

- 1 Press [JOG].



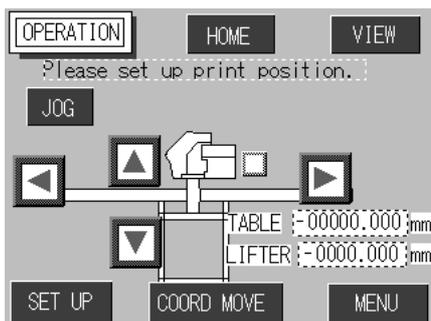
- 2 Select [INCHING].



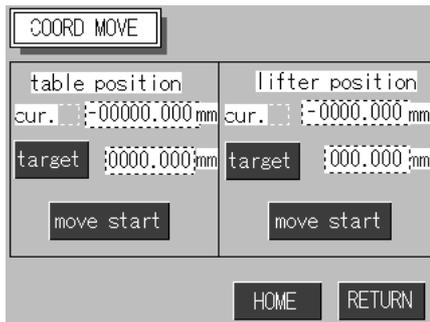
- 3 Press , , , and  to move the table and lifter.

Moving the Table and Lifter by Entering Values

- 1 Press [COORD MOVE].



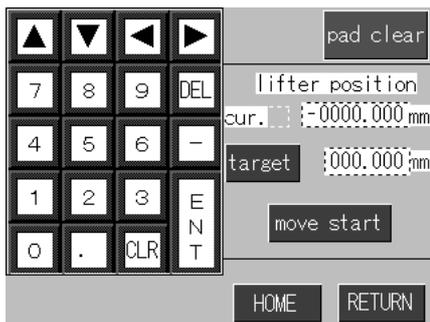
- 2 Press [target] under table position or lifter position.
A numeric keypad appears.



- 3 Press [CLR].

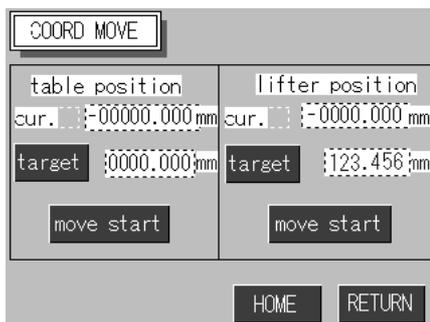


- 4 Enter the value.



- 5 Press [ENTER].

- 6 Press [move start].



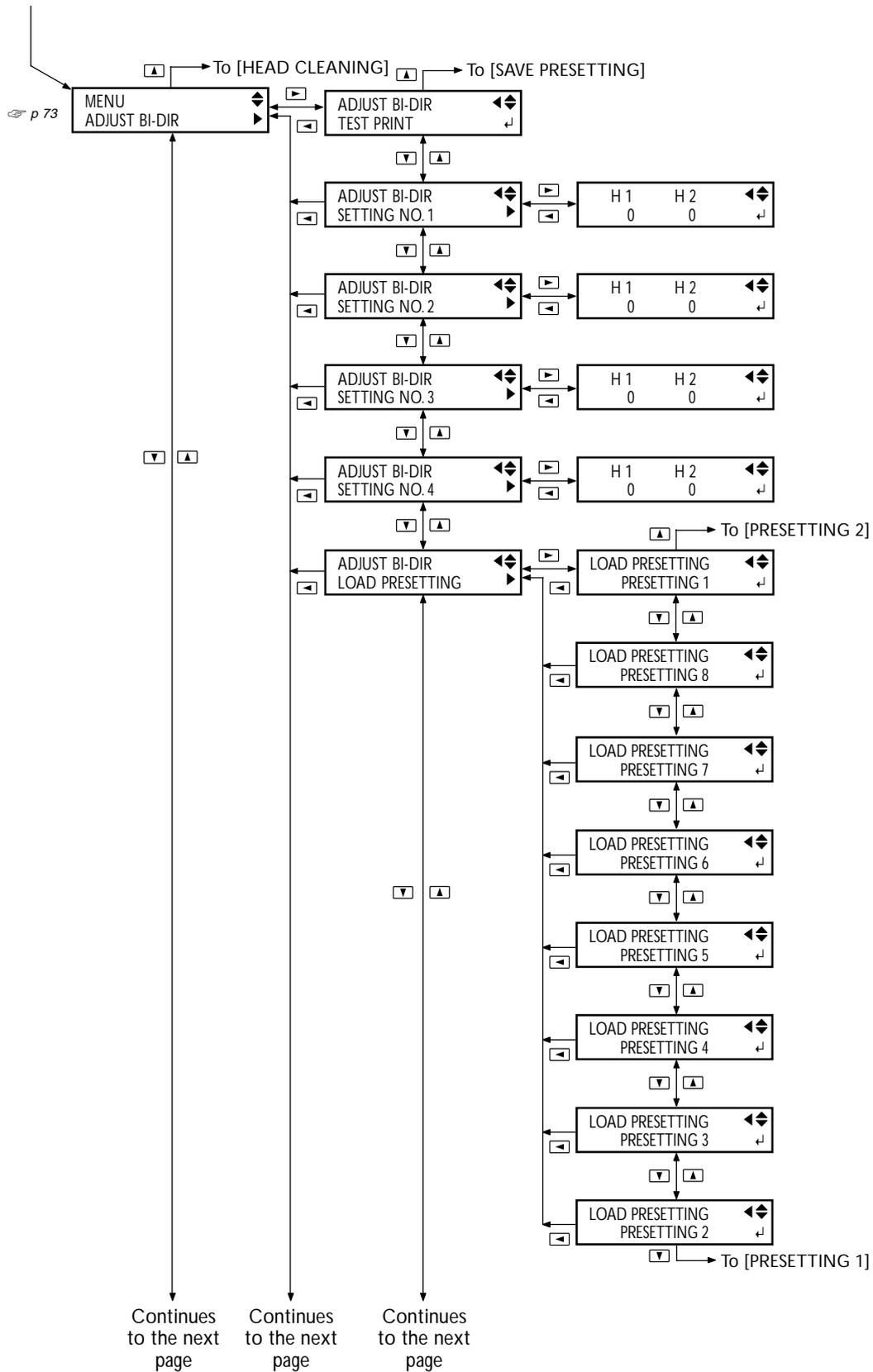
Description

This menu is used to move the lifter or table when setting the media or checking the print results. The print start position cannot be set from this menu.

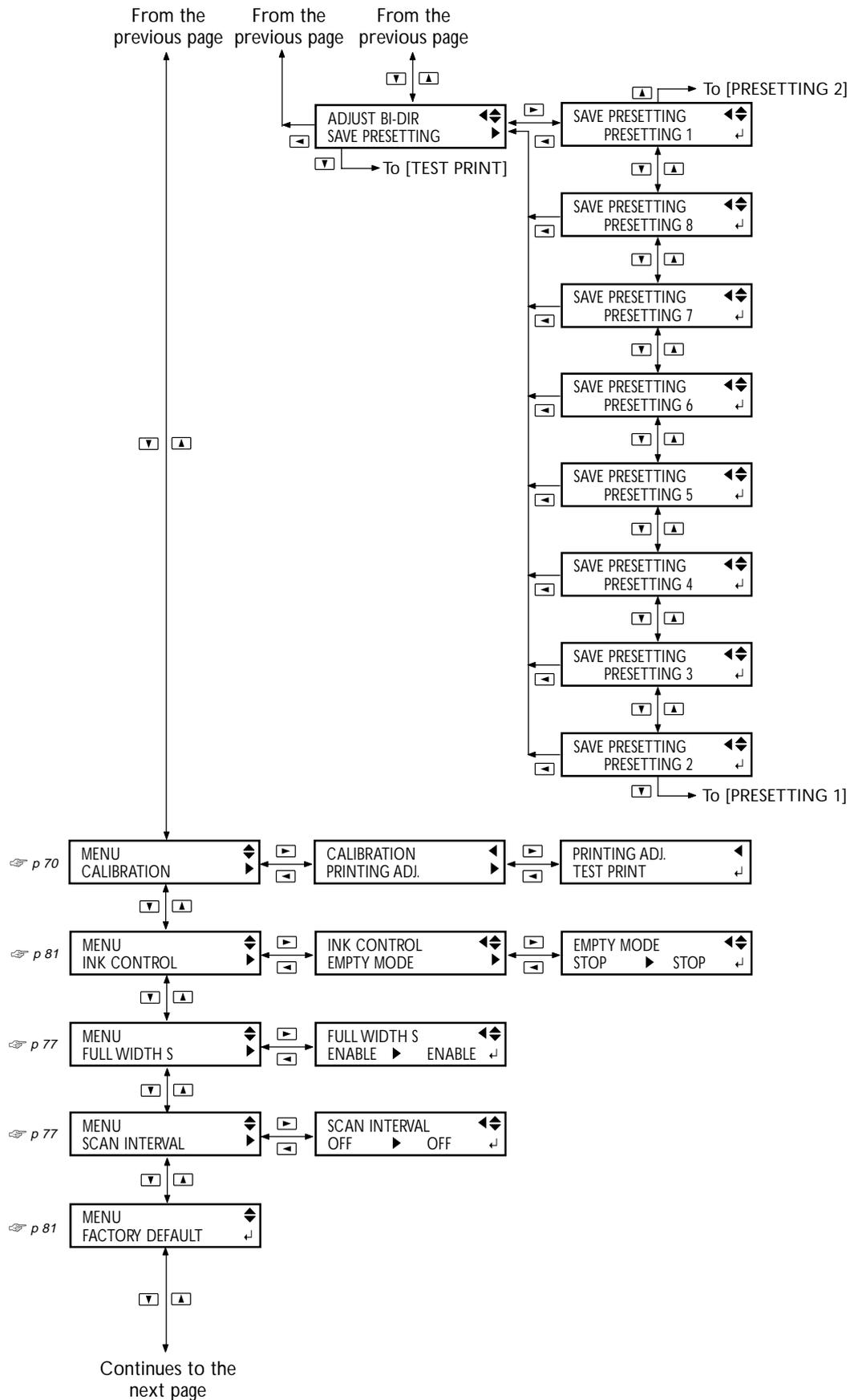
4-8 Menu Flowchart

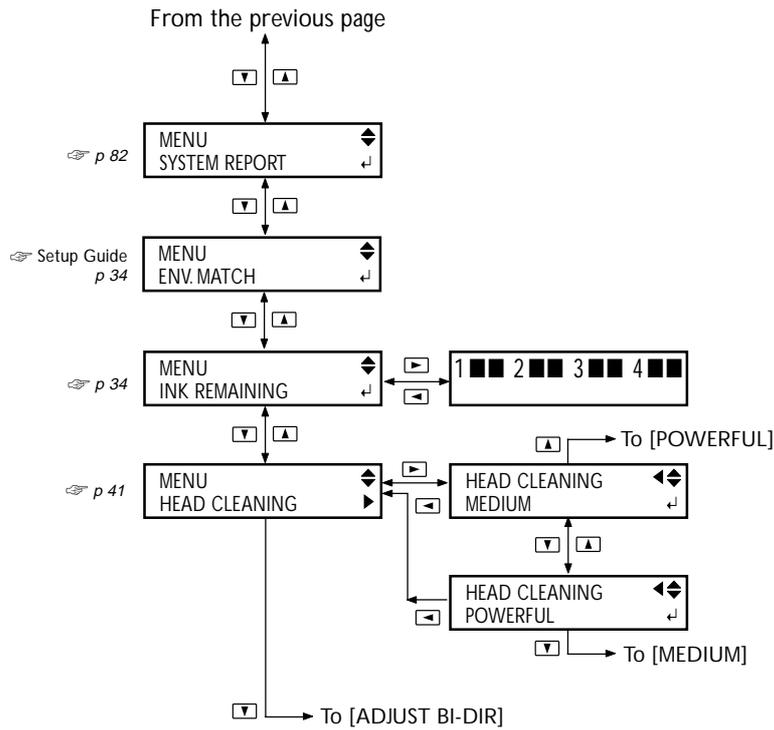
Main Menu on the Printer Control Panel

Press MENU.



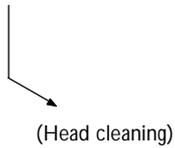
4-8 Menu Flowchart



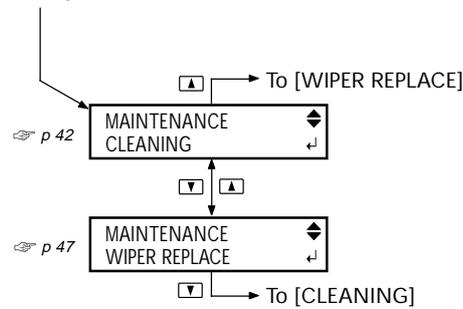


Cleaning and Maintenance Menu

Hold down **CLEANING** for at least 1 second.

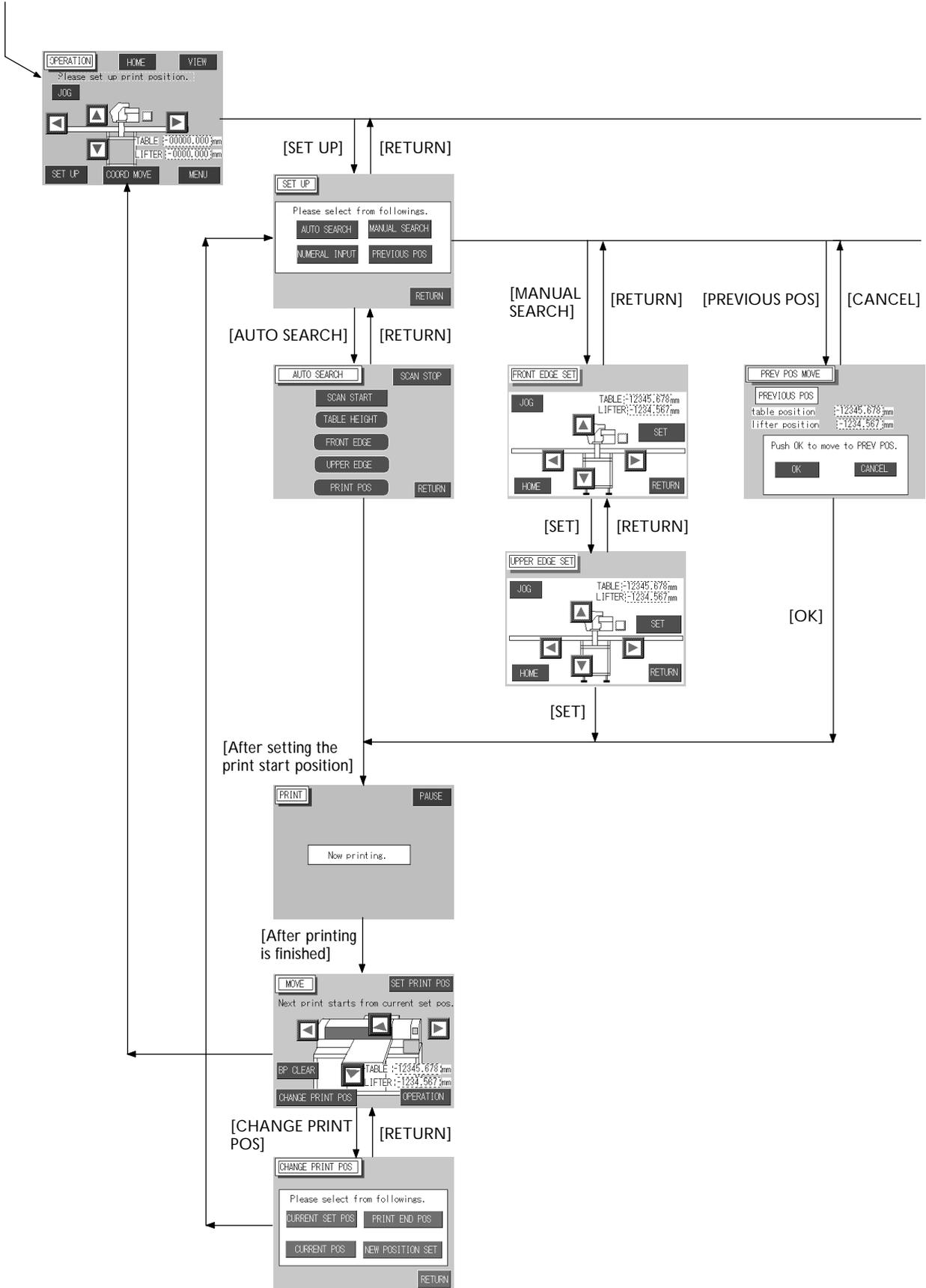


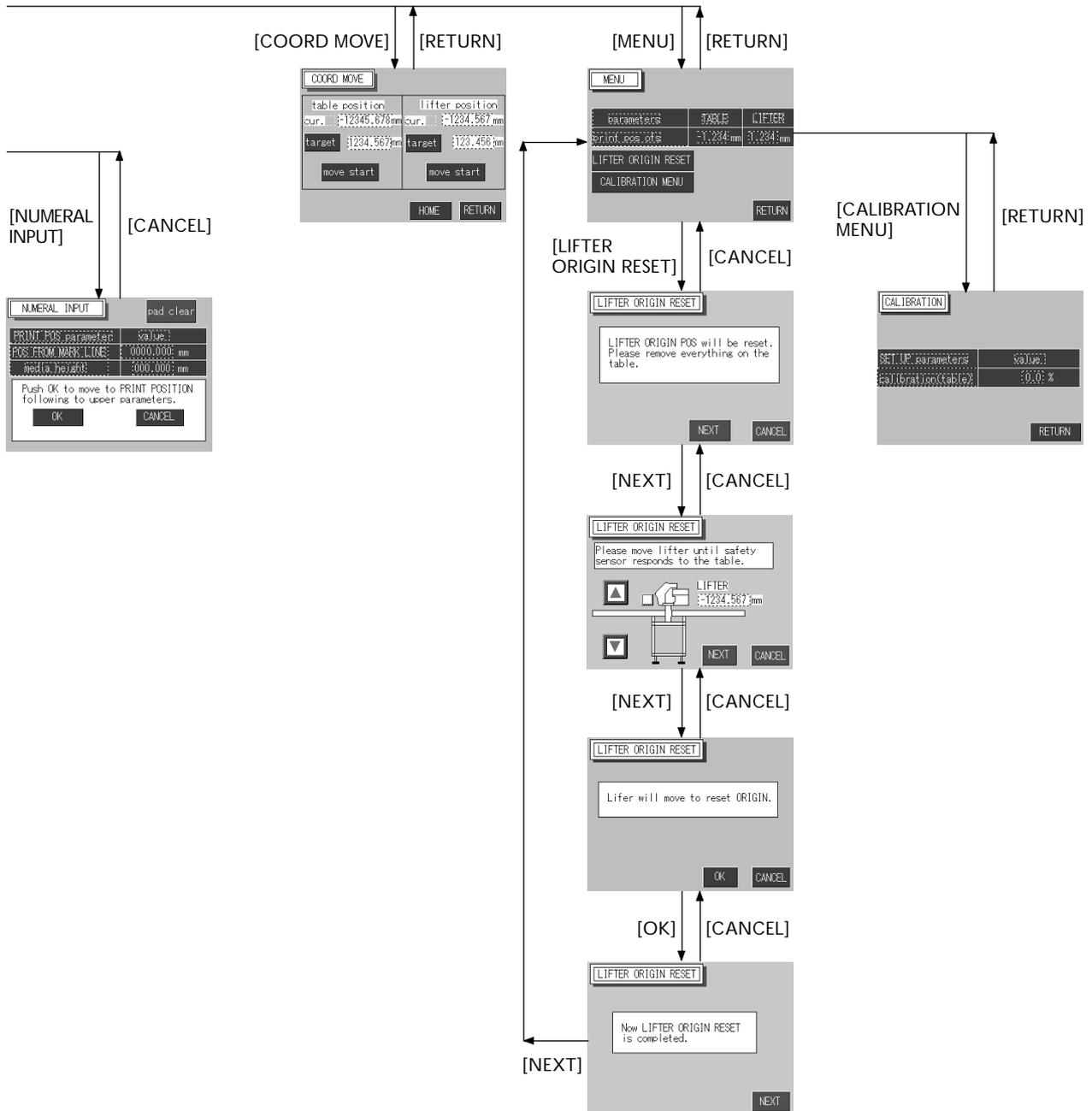
Press the F5 button to switch on the sub power



Main Menu on the Base Control Panel

Switch on the sub power.





Chapter 5

What to Do If

5-1 The Printer Doesn't Run

The printer does not run

Is the power switched on?

Switch on the printer's main power, then press the sub power switch and make sure the [SETUP] light comes on.

Is something touching the touch sensor?

If an object is touching the touch sensor, the printer does not run. Remove the object that is touching the touch sensor.

Is the front cover open?

Close the front cover.

Is the top menu displayed?

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

Is the Base Control Panel displaying "Now printable state"?

If the print start position is not set on the Base Control Panel, the printer does not run. Set the print start position and check that the Base Control Panel displays "Now printable state".

Is the light on?

When the  light is on, operation is paused. To resume, press . The light turns off and printing resumes.

Has ink run out?

 When printing data is sent while the screen shown in the figure is displayed, a message appears and a warning beep sounds. At the same time, operation pauses. When the ink cartridge is replaced with a new one, printing starts.

Is a message displayed on the screen?

☞ p 95 "If a Message Appears"

☞ p 96 "If an Error Message Appears"

Is the cable connected?

Connect the cable securely.

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

Use a shielded USB cable having a length of 3 m or less. Do not use USB hubs or other similar devices.

5-2 Printing Quality Is Poor

Printed Results Are Coarse or Contain Horizontal Stripes

Do the print heads show dot drop-outs?

Carry out a test print and make sure no dot drop-out occurs. If dot drop-out is present, perform head cleaning.

☞ p 32 "Test Printing and Cleaning"

☞ p 41 "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. Carry out correction on the printer.

☞ p 70 "Performing Feed Correction to Alleviate Horizontal Stripes and the Like"

Have you carried out bidirectional correction?

When you are performing bidirectional printing, use the [ADJUST BI-DIR] menu item to carry out correction. The optimal adjustment value may vary, depending mainly on the thickness of the media. Set or select an adjustment value that is suited to the media.

☞ p 73 "Correcting for Misalignment in Bidirectional Printing"

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 head height correct?

If the head is too far or too close to the medium, printed results may be coarse or contain horizontal stripes. Adjust the height of the head according to the media thickness.

☞ p 28 "Specifying the Print Start Position"

☞ p 58 "Setting the Print Start Position"

If the media fixed in place?

Fix the media firmly on the table if the media floats from the table when it is set or moves during operation. Unstable setting of the media causes adverse effects on printing.

Colors Are Unstable or Uneven

Did you shake the ink cartridges gently before installing them?

Before you install a new ECO-SOL INK cartridge, gently shake the cartridge.

Was printing paused partway through?

If printing pauses, the color may be off the next time it resumes. Avoid pausing printing. With the factory-default settings, printing pauses when an ink cartridge runs empty.

Check the remaining amount of ink in the ink cartridge before printing on a long media.

Printing may also pause when data is not sent from the computer fast enough. We recommend that you not perform any other tasks on the computer while printing is in progress.

Are the operating parameters set to appropriate values?

Depending on the settings in the [FULLWIDTH S] menu, uneven colors may occur. If the settings have been changed, try restoring them to their default values.

☞ p 77 "Speeding Up Printing for Narrow Media"

Is the printer installed in a level and stable location?

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

If the media fixed in place?

Fix the media firmly on the table if the media floats from the table when it is set or moves during operation. Unstable setting of the media causes adverse effects on printing.

Media Becomes Stained When Printed

Is the print head dirty?

Ink may drip on the media during printing due to the following causes.

- There is fibrous dust (lint) near the head.
- Ink is all over the head due to the head rubbing the media.

In such cases, clean the head with the cleaning kit. We recommend periodic head cleaning.

☞ p 42 "Cleaning the Heads Using the Cleaning Kit"

Are the pinch rollers dirty?

Clean the pinch rollers periodically.

5-3 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

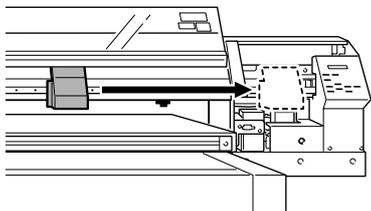
Switch the sub power off, then back on again. (If the media is jammed, then also remove the media.) If the heads move to the standby position (inside the right side cover), it means the operation has ended successfully.

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

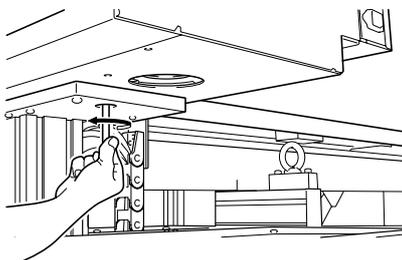
If the Heads Still Do Not Move

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.

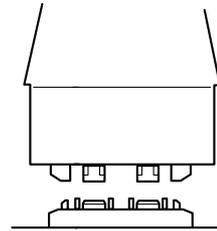
1. Switch off the main power and detach the cover.
2. Open the front cover.
3. Gently move the print heads by hand to the standby position.



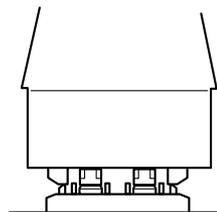
4. Insert the cap-unit tool into the hole at the bottom of the machine and turn gently. The cap unit rises.



5. Align the print head guide on either side to the cap unit guide. Turn the tool further to bring the heads near the cap unit.



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



Make sure the print heads are capped tightly.

5-4 If a Message Appears

These are the main messages that appear on the machine's display to prompt correct operation. They do not indicate any error. Follow the prompts and take action accordingly.

Messages That Appear on the Printer Control Panel

[1 ■ 2 ■ 3 ■ 4 ■]

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

[PRESS THE POWER KEY TO CLEAN]

This appears when the machine has been unused for about one month. Switch on the sub power at least once a month.

 p 53 "When Not in Use for a Prolonged Period"

[SET SOL CRT.]

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

[REMOVE SOL CRT.]

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

[SET SOLCL-LIQUID]

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

[REMOVE SOL CL]

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

[CLOSE THE COVER]

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

[INSTALL DRAIN BOTTLE]

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

[EMPTY DRAIN BOTTLE]

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

[TIME FOR MAINTENANCE]

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

 p 42 "Cleaning the Heads Using the Cleaning Kit"

[TIME FOR WIPER REPLACE]

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

 p 47 "Replacing the Wipers"

[TIME FOR SPONGE REPLACE]

It is time to replace the sponge. After verifying, press .

 p 51 "Replacing the Ink-Absorbing Material"

Messages That Appear on the Base Control Panel

[Safety sensor responded.]

Remove the object that the touch sensor is reacting to.

If you press [CONTINUE], printing continues.

If you press [PRINT CANCEL], printing is cancelled, and the screen that appears when printing is finished appears.

This message appears when the safety sensor light is blocked during operation.

[COORD POS is out of stroke limit.]

Press [PRINT CANCEL]. Check the output data size, and redo the printing.

This message appears when the output data is larger than the print area.

[Print position couldn't be detected. Please try again by using MANUAL SEARCH or NUMERAL INPUT.]

Press [RETURN]. Set the print start position using manual search or numeral input.

This message appears when the media could not be detected through auto search.

[Now receiving print data. Please set up PRINT POS.]

Press [RETURN]. Set the print start position and send the data again.

This message appears when data is sent to the printer when the print start position has not yet been specified.

5-5 If an Error Message Appears

Error Messages That Appear on the Printer Control Panel

This describes the error messages that may appear on the machine's control panel, and how to take action to remedy the problem. If the action described here does not correct the problem, or if an error message not described here appears, contact your authorized Roland DG Corp. dealer or Roland DG Corp. service center.

[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), and then turn on the power.

[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), and then turn on the power.

[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.

[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.

[WRONG CARTRIDGE]

A cartridge that cannot be used was installed.

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

A cartridge was inserted with too much force.

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

[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, and 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.

[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, and 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.

[CANCELED FOR PROTECTING MOTOR]

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

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

Messages That Appear on the Base Control Panel

This describes the error messages that may appear on the machine's control panel, and how to take action to remedy the problem. When an error message appears, you cannot continue printing. Correct the error and switch off the sub power.

If the action described here does not correct the problem, or if an error message not described here appears, contact your authorized Roland DG Corp. dealer or Roland DG Corp. service center.

To correct an error, carry out the following steps.

1. Press **BUZZER STOP**, to stop the buzzer.
2. Take action according to the error message.
3. Press **ALARM RESET** to clear the error.
4. Switch off the sub power.

[EMERGENCY SW was pushed.]

Printing was paused because the EMERGENCY SW was pressed.

Remedy: Release the EMERGENCY SW.

[Table motor error occurred.]

A motor error occurred.

Remedy: Check if there is an object that hinders operation near the table. If this error appears, switch off the main power switch and then back on.

[Lifter motor error occurred.]

A motor error occurred.

Remedy: Check if there is an object that hinders operation near the table. If this error appears, switch off the main power switch and then back on.

[Media sensor error occurred.]

The sensor does not react because the media sensor is damaged or is not installed at the correct position.

Remedy: Press ALARM RESET, and then contact your authorized Roland DG Corp. dealer or Roland DG Corp. service center.

[Safety sensor error occurred.]

The safety sensor does not react.

Remedy: Press ALARM RESET, and then contact your authorized Roland DG Corp. dealer or Roland DG Corp. service center.

[Belt sw was pushed.]

The touch sensor touched something while in operation.

Remedy: Remove the object that is touching the touch sensor. When something touches the touch sensor when in operation, the printer makes an emergency stop for safety reasons.

[Safety sensor responded.]

The safety sensor reacted during printing, because the media is not flat.

Remedy: Press ALARM RESET and then [HOME].

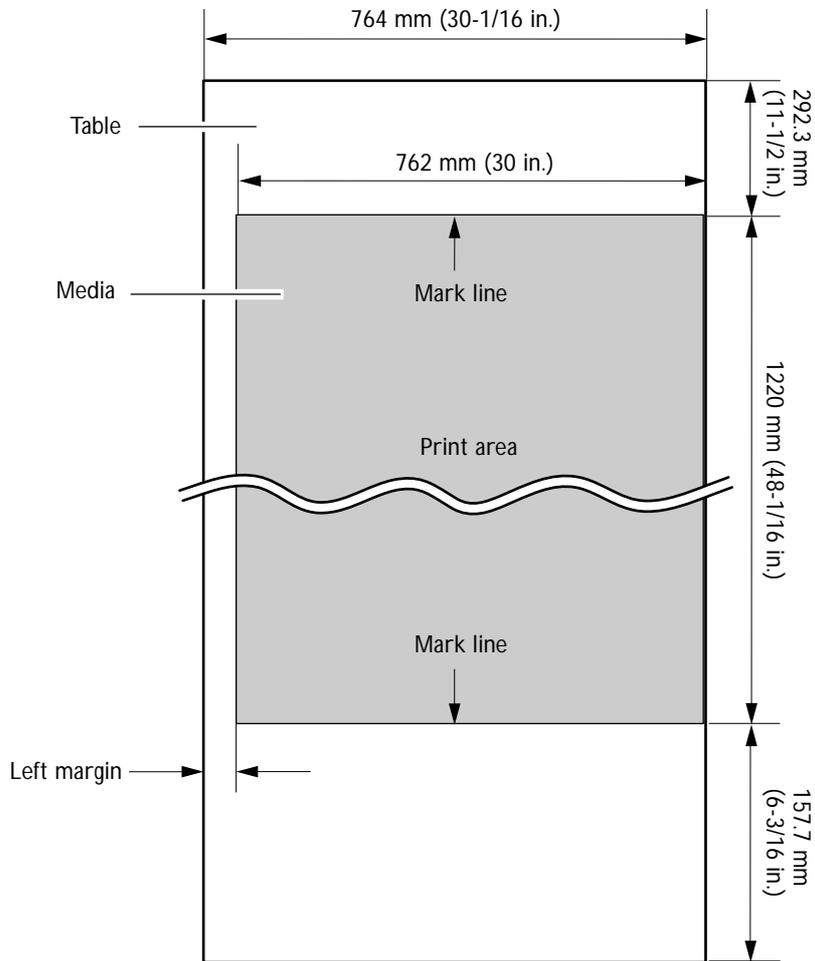
Then, set the print start position again. Set the upper edge height to the highest point on the media.

Chapter 6

Specifications

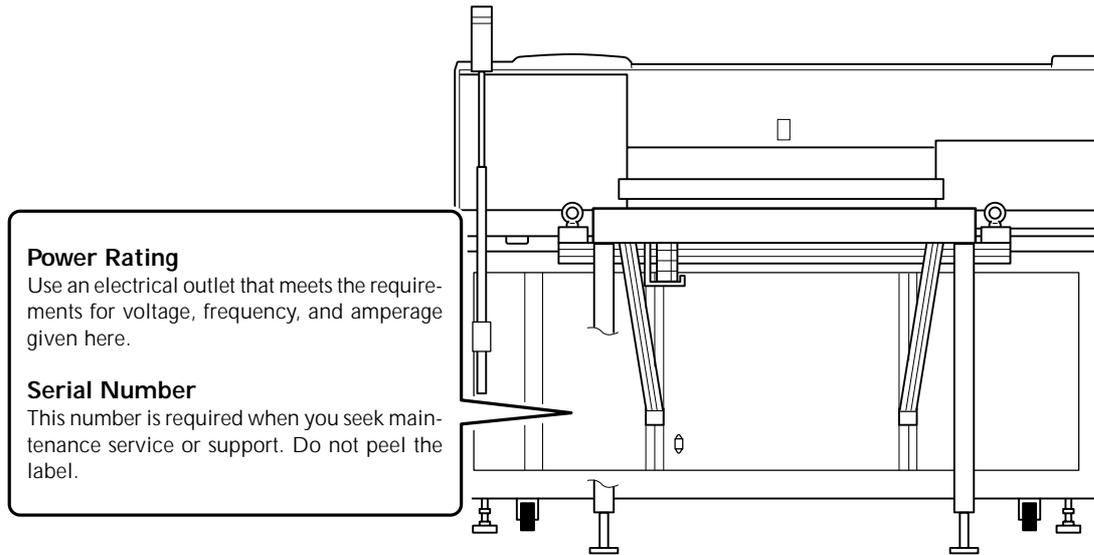
6-1 Printing Area

Print Area



* The amount of left and right margins can be changed using the menus.

6-2 Locations of the Power Rating and Serial Number Labels

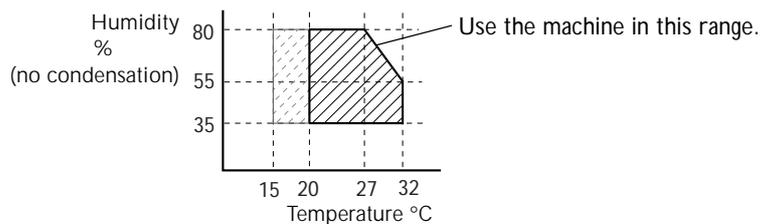


6-3 Specifications

		FLJ-300
Printing method		Piezo ink-jet method
Loadable media (*1)		Maximum width: 762 mm (30.0 in.) Maximum thickness: 102 mm (4.0 in.) (95 mm (3.7 in.) when using auto search mode) Maximum weight: 20 kg (44 lb.)
Printable area		Maximum: 762 mm (W) x 1220 mm (L) (30.0 in. (W) x 48.1 in. (L))
Ink	Type	Exclusive ECO-SOL INK
	Capacity	220 cc \pm 5 cc
	Color	4 colors (cyan, magenta, yellow, and black)
Resolution		Maximum 1440 dpi
Distance accuracy		Error of less than $\pm 0.2\%$ of distance traveled, or ± 0.2 mm, whichever is greater
Interface		USB interface (complying with Universal Serial Bus Specification Revision 1.1)
Power supply	Voltage and frequency	AC 220 to 240 V $\pm 10\%$, 50/60 Hz
	Required power capacity	2 A
Power consumption		Approx. 250 W
Acoustic noise level	During operation	64 dB (A) or less (according to ISO 7779)
	During standby	45 dB (A) or less (according to ISO 7779)
Dimensions		1720 (W) x 3140 (D) x 1500 (H) mm (67.8 (W) x 123.7 (D) x 59.1 (H) in.)
Weight		495 kg (1092 lb.)
Environment	Power on (*2)	Temperature: 15 to 32°C (59 to 90°F) (20°C (68°F) or higher recommended), humidity: 35 to 80% (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80% (no condensation)
Included items		Power cord, drain bottle, SOL INK cleaning cartridges, pinch roller adjuster, ink-absorbing materials, cap-unit tool, hexagonal wrench, spanners, software RIP, CD-ROM, User's Manual, Setup Guide, Windows Driver Guide, and cleaning kit

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

*2 Environment





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