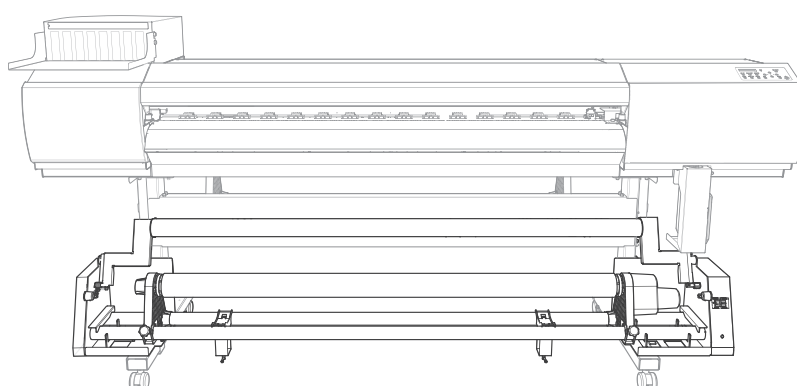


Automatic Media Take-up Unit

TUC-3 & TAKE-UP RAIL TU3-64

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.

Roland DG Corporation



1000018423

R3-170831

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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

Use only I/O cables that have been designed and manufactured specifically for this device.

For Canada

NOTICE

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

AVIS

Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

NOTICE

Grounding Instructions

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

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

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

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

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

Repair or replace damaged or worn cord immediately.

For California



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

For EU Countries

WARNING

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

For EU Countries



Manufacturer:

ROLAND DG CORPORATION

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

The importer in the EU:

Roland DG Europe Holdings B.V.

Prof. J.H. Bavincklaan 2, 1183 AT, Amstelveen, The Netherlands

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


For China

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板	×	○	×	○	○	○
头部	×	○	○	○	○	○
壳体、底架	×	○	○	○	○	○
电源	×	○	×	○	○	○
其他 (电缆、附件等)	×	○	○	○	○	○


○：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T26572-2011 标准规定的限量要求以下。
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572-2011 标准规定的限量要求。

环保使用期限




此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。不当的使用，将会导致有害物质泄漏的危险。


For EU Countries




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




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




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




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




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




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




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




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



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



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



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

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To Ensure Safe Use

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

About WARNING and CAUTION Notices


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


About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. The symbol at left means "danger of electrocution."
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. The symbol at left means the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. The symbol at left means the power-cord plug must be unplugged from the outlet.


Incorrect operation may cause injury.


WARNING

 **Be sure to follow the operation procedures described in this documentation. Never allow anyone unfamiliar with the usage or handling of the machine to touch it.**
Incorrect usage or handling may lead to an accident.

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

WARNING

 **Never operate the machine while tired or after ingesting alcohol or any medication.**
Operation requires unimpaired judgment. Impaired judgment may result in an accident.

 **Never use the machine for any purpose for which it is not intended, or use the machine in an undue manner that exceeds its capacity.**
Doing so may result in injury or fire.

WARNING



For accessories (optional and consumable items, AC adapter, power cord, and the like), use only genuine articles compatible with this machine.

Incompatible items may lead to an accident.



Before attempting cleaning, maintenance, or attachment or detachment of optional items, disconnect the power cord.

Attempting such operations while the machine is connected to a power source may result in injury or electrical shock.



Never attempt to disassemble, repair, or modify the machine.

Doing so may result in fire, electrical shock, or injury. Entrust repairs to a trained service technician.

CAUTION



Exercise caution to avoid being pinched or becoming caught.

Inadvertent contact with certain areas may cause the hand or fingers to be pinched or become caught. Use care when performing operations.



Never attempt operation while wearing a necktie, necklace, or loose clothing. Bind long hair securely.

Such items may become caught in the machine, resulting in injury.



Conduct operations in a clean, brightly lit location.

Working in a location that is dark or cluttered may lead to an accident, such as becoming caught in the machine as the result of an inadvertent stumble.



Never climb or lean on the machine.

The machine is not made to support a person. Climbing or leaning on the machine may dislodge components and cause a slip or fall, resulting in injury.

 **Media weighs 50 kg (110 lb.).**

WARNING



Handling roll media is an operation that must be performed by two persons or more, and care must be taken to prevent falls.

Attempting to lift heavy media in a manner that taxes your strength may cause physical injury.



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

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


WARNING

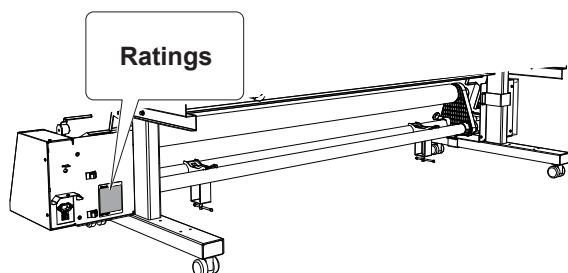



If the printer's usable media weight is less than 50 kilograms (110 lb.), media weighing more than this cannot be used.


Danger of electrical short, shock, electrocution, or fire


WARNING

-  **Connect to an electrical outlet that complies with this machine's ratings (for voltage, frequency, and current).**
Incorrect voltage or insufficient current may cause fire or electrical shock.





-  **Never use out of doors or in any location where exposure to water or high humidity may occur. Never touch with wet hands.**
Doing so may result in fire or electrical shock.


-  **Never allow any foreign object to get inside. Never expose to liquid spills.**
Inserting objects such as coins or matches or allowing beverages to be spilled into the ventilation ports may result in fire or electrical shock. If anything gets inside, immediately disconnect the power cord and contact your authorized Roland DG Corp. dealer.


-  **Never place any flammable object nearby. Never use a combustible aerosol spray nearby. Never use in any location where gases can accumulate.**
Combustion or explosion may be a danger.


WARNING


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

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

-  **Handle the power cord, plug, and electrical outlet correctly and with care. Never use any article that is damaged.**
Using a damaged article may result in fire or electrical shock.

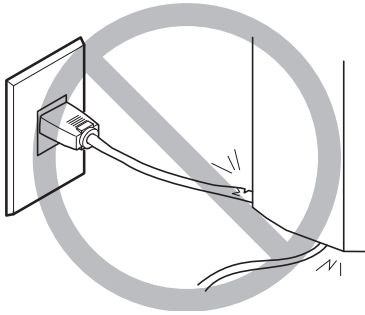
-  **When using an extension cord or power strip, use one that adequately satisfies the machine's ratings (for voltage, frequency, and current).**
Use of multiple electrical loads on a single electrical outlet or of a lengthy extension cord may cause fire.

-  **Position so that the power plug is within immediate reach at all times.**
This is to enable quick disconnection of the power plug in the event of an emergency. Install the machine next to an electrical outlet. Also, provide enough empty space to allow immediate access to the electrical outlet.

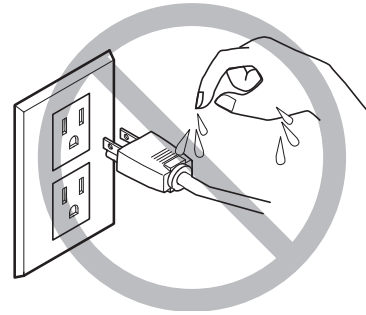
-  **If sparking, smoke, burning odor, unusual sound, or abnormal operation occurs, immediately unplug the power cord. Never use if any component is damaged.**
Continuing to use the machine may result in fire, electrical shock, or injury. Contact your authorized Roland DG Corp. dealer.

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

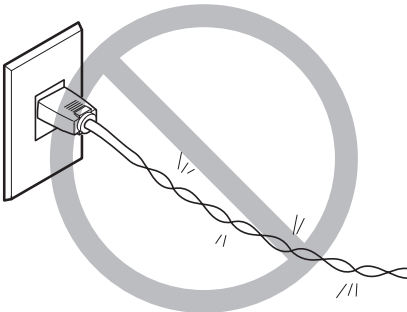
⚠ Important notes about the power cord, plug, and electrical outlet



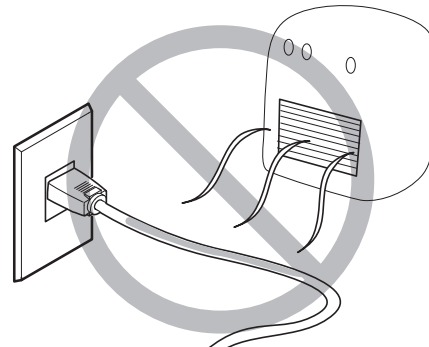
Never place any object on top or subject to damage.



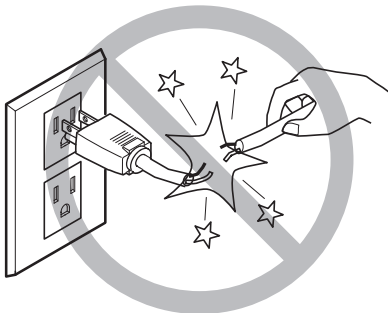
Never allow to get wet.



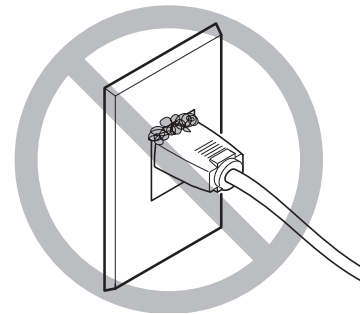
Never bend or twist with undue force.



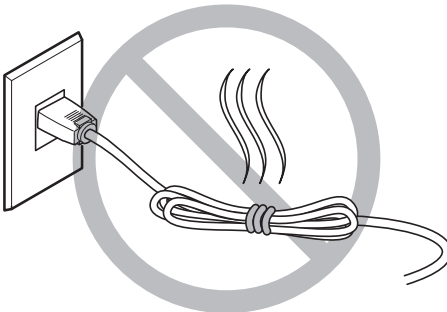
Never make hot.



Never pull with undue force.



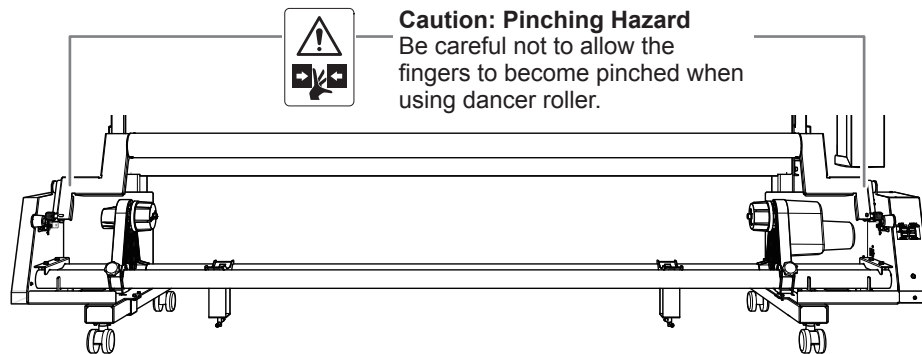
Dust may cause fire.



Never bundle, bind, or roll up.

⚠ Warning Labels

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













Pour utiliser en toute sécurité

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

Avis sur les avertissements

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

À propos des symboles

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



L'utilisation incorrecte peut causer des blessures



ATTENTION



S'assurer de suivre les procédures d'utilisation décrites dans la documentation. Ne jamais permettre à quiconque ne connaît pas le fonctionnement ou la manutention de l'appareil de le toucher.
L'utilisation ou la manutention incorrectes peuvent causer un accident.



Garder les enfants loin de l'appareil.
L'appareil comporte des zones et des composants qui présentent un danger pour les enfants et qui pourraient causer des blessures, la cécité, la suffocation ou d'autres accidents graves.



ATTENTION




Ne jamais faire fonctionner l'appareil après avoir consommé de l'alcool ou des médicaments, ou dans un état de fatigue.
L'utilisation de l'appareil exige un jugement sans faille. L'utilisation avec les facultés affaiblies pourrait entraîner un accident.




Ne jamais utiliser l'appareil à des fins autres que celles pour lesquelles il est conçu. Ne jamais l'utiliser de manière abusive ou d'une manière qui dépasse sa capacité.
Le non-respect de cette consigne peut causer des blessures ou un incendie.

ATTENTION

 **Utiliser uniquement des accessoires d'origine (accessoires en option, articles consommables, câble d'alimentation et autres articles semblables), compatibles avec l'appareil.**

Les articles incompatibles risquent de causer des accidents.

 **Débrancher le câble d'alimentation avant de procéder au nettoyage ou à l'entretien de l'appareil, et avant d'y fixer ou d'en retirer des accessoires en option.**

Tenter ces opérations pendant que l'appareil est branché à une source d'alimentation peut causer des blessures ou un choc électrique.


 **Ne jamais tenter de démonter, de réparer ou de modifier l'appareil.**

Le non-respect de cette consigne risque de provoquer un incendie, un choc électrique ou des blessures. Confier les réparations à un technicien ayant la formation requise.

PRUDENCE

 **Faire preuve de prudence pour éviter l'écrasement ou le coincement.**

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

 **Ne jamais faire fonctionner l'appareil si on porte une cravate, un collier ou des vêtements amples. Bien attacher les cheveux longs.**

Ces vêtements ou ces objets peuvent être coincés dans l'appareil, ce qui causerait des blessures.

 **Utiliser l'appareil dans un endroit propre et bien éclairé.**


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

 **Ne jamais grimper ni s'appuyer sur la machine.**


La machine n'est pas conçue pour supporter le poids d'une personne. Grimper ou s'appuyer sur la machine peut déplacer des éléments et causer un faux pas ou une chute, ce qui causerait des blessures.

 **Le poids du support est de 50 kg (110 lb.).**

ATTENTION

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

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

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

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

ATTENTION

 **Si le poids utile du rouleau pour l'imprimante est spécifié à moins de 50 kg (110 lb.), ne pas utiliser un rouleau de poids supérieur.**

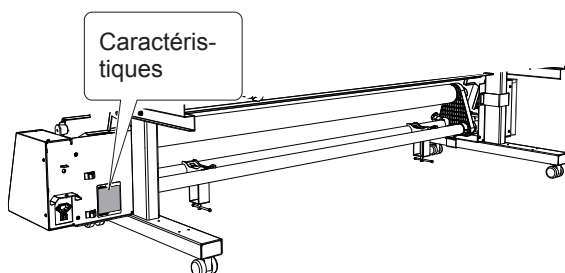
⚠ Risque de décharge ou de choc électrique, d'électrocution ou d'incendie

⚠ ATTENTION



Brancher à une prise électrique conforme aux caractéristiques de cet appareil (tension, fréquence et courant).

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



Ne jamais utiliser à l'extérieur ni à un endroit où l'appareil risque d'être exposé à de l'eau ou à une humidité élevée. Ne jamais toucher l'appareil avec des mains mouillées.

Le non-respect de cette consigne risque de provoquer un incendie ou un choc électrique.



Ne jamais insérer d'objet étranger dans l'appareil. Ne jamais exposer l'appareil aux déversements de liquides.

L'insertion d'objets comme des pièces de monnaie ou des allumettes, ou le déversement de liquides dans les orifices de ventilation peuvent causer un incendie ou un choc électrique. Si un objet ou du liquide s'infiltre dans l'appareil, débrancher immédiatement le câble d'alimentation et communiquer avec le représentant Roland DG Corp. autorisé.



Ne jamais placer d'objet inflammable à proximité de l'appareil. Ne jamais utiliser de produit inflammable en aérosol à proximité de l'appareil. Ne jamais utiliser l'appareil dans un endroit où des gaz peuvent s'accumuler.

Une combustion ou une explosion pourraient se produire.

⚠ ATTENTION



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

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



Mise à la terre.

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



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

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



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

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



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

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



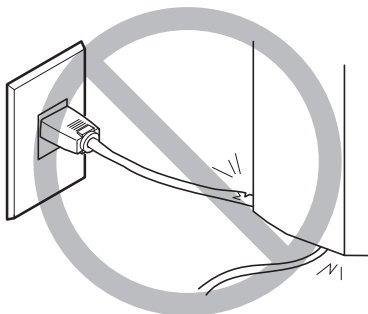
S'il se produit des étincelles, de la fumée, une odeur de brûlé, un bruit inhabituel ou un fonctionnement anormal, débrancher immédiatement le câble d'alimentation. Ne jamais utiliser si un composant est endommagé.

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

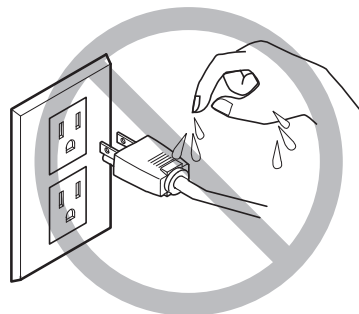


Ne pas utiliser le cordon électrique fourni avec d'autres produits.

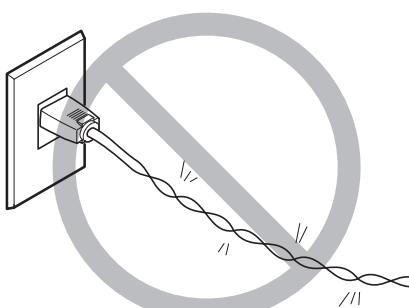
⚠ Remarques importantes à propos du câble d'alimentation, de la fiche et de la prise électrique



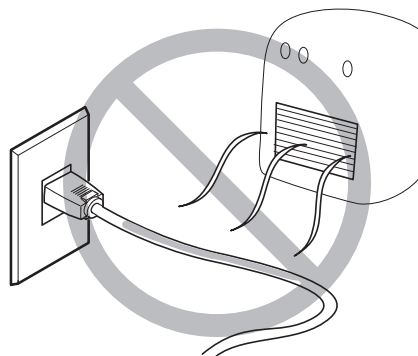
Ne jamais déposer aucun objet sur le câble, sur la fiche ou sur la prise car cela risque de les endommager.



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



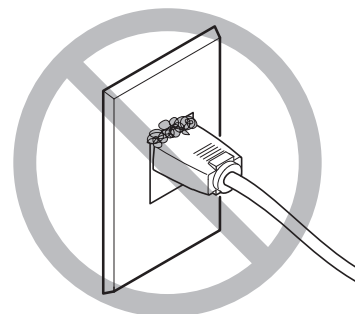
Ne jamais plier ni tordre le câble avec une force excessive.



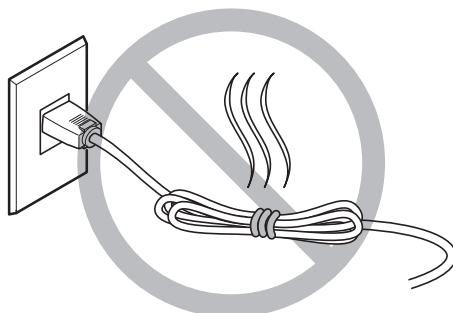
Ne jamais chauffer le câble, la fiche ou la prise.



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



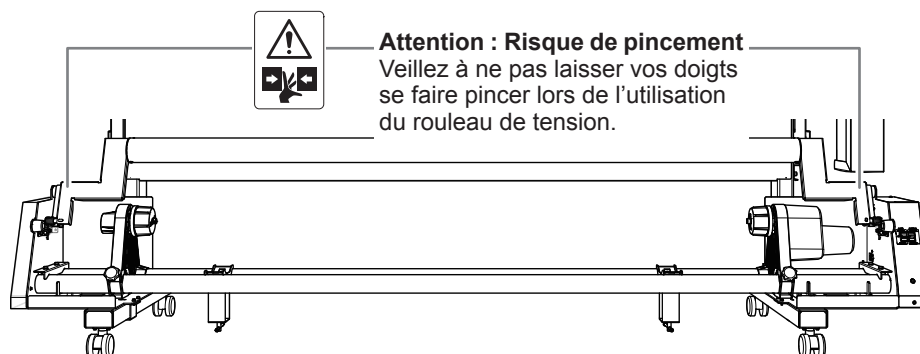
La poussière peut causer un incendie.



Ne jamais plier ni enrouler le câble.

⚠ 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.



Important Notes on Handling and Use

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

This Machine Is a Precision Device

- Handle carefully, and never subject the machine to impact or excessive force.
- Never cover the ventilation holes with cloth, tape, or anything else.

User's Manual

1. Getting Started

System Features

- This is a take-up unit for large-format printers from Roland DG Corp.
- This unit automatically takes up media as it is being printed. This enables lengthy output and unattended operation at night to be accomplished efficiently.
- Media weighing up to 50 kilograms (110 lb.) can be used. Stable take-up is possible even for heavy media (If the printer's usable media weight is less than 50 kilograms (110 lb.), media weighing more than this cannot be used).

Main Compatible Models (As of December 2014)

- XF-640
- RF-640/640A
- RT-640

* In this manual, illustrations used for the printer unit depict the XF-640.

Changes in Printer Functioning

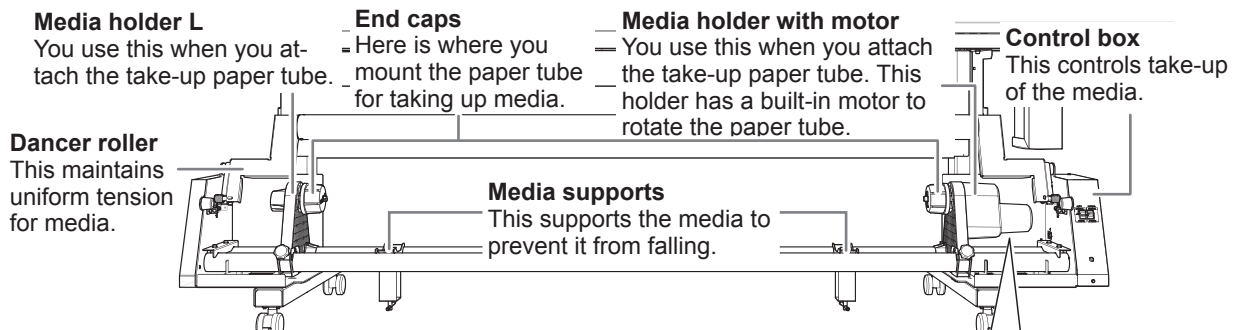
Installing this unit changes the printer's menus and other behavior in the following ways.

XF-640, RF-640

- At the [SETUP SHEET] screen, selecting whichever [ROLL] or [TU] is now possible. When performing printing using this unit, select "TU."

* No printer functions change when using the unit with the RT-640.

Part Names and Functions



Motor connector

This connector is used to connect the media holder with motor and the control box.

Printer connector

This connector is used for making the connection when using the printer connector cable included with the unit.

Power-cord connector

Power switch

Back side of control box

AUTO switch

This makes the direction of rotation for take-up during printing change automatically.

MANUAL switch

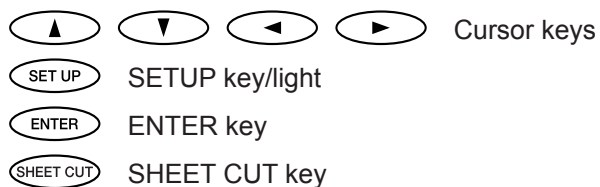
You use this when you want to operate the take-up unit manually.

Expansion connector

Connecting terminal for an external device. For details, contact your authorized Roland DG Corp. dealer.

About the Notation Used in This Manual

This document uses the following images to indicate the keys and lights on the printer's operation panel.



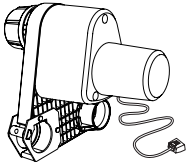
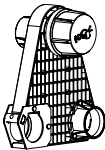
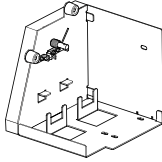
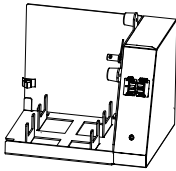
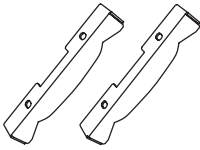
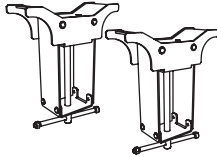
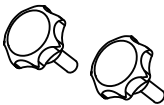

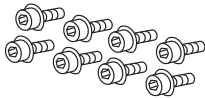
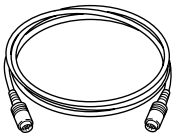

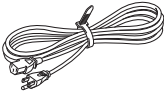
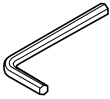
2. Checking the Included Items

The following included items are contained in two accessories boxes. Make sure they are all present and accounted for.

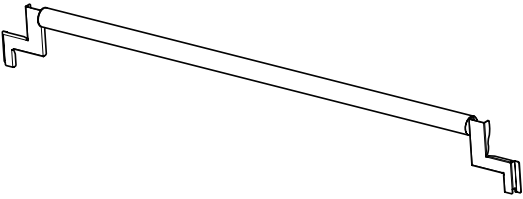
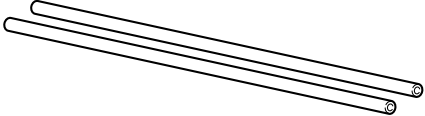
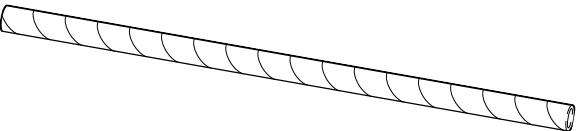

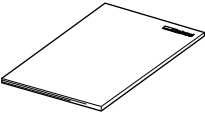
IMPORTANT!

Do not dispose of the accessories boxes or flatten them. They are used as base during assembly and installation.

Control Box (TUC-3)

 <p>Media holder with motor (1)</p>	 <p>Media holder L (1)</p>	 <p>Frame (1)</p>	 <p>Control box (1)</p>
 <p>Shaft clamps (2)</p>	 <p>Media supports (2)</p>	 <p>Retaining screws for media holder (2)</p>	 <p>Bolts (4)</p>
 <p>Bolts with washer (8)</p>	 <p>Printer connector cable (1)</p>	 <p>Cable clamps (6)</p>	 <p>Power cord (1)</p>
 <p>Hexagonal wrench (1)</p>			

Rail and Accessories (TU3-64)

 <p>Dancer roller (1)</p>	 <p>Shafts (2)</p>	
 <p>Paper tube (1)</p>	 <p>Bolts with washer (2)</p>	 <p>User's manual (this document) (1)</p>

3. Assembling and Installing

Read This First

- Before attempting the operations described here, first install the printer you're using at the target location.
- Carry out the operations in a location that is flat, level, and stable.
- We recommend carrying out the operations at a location near to where the printer you're using is installed.

Assembling and Installing

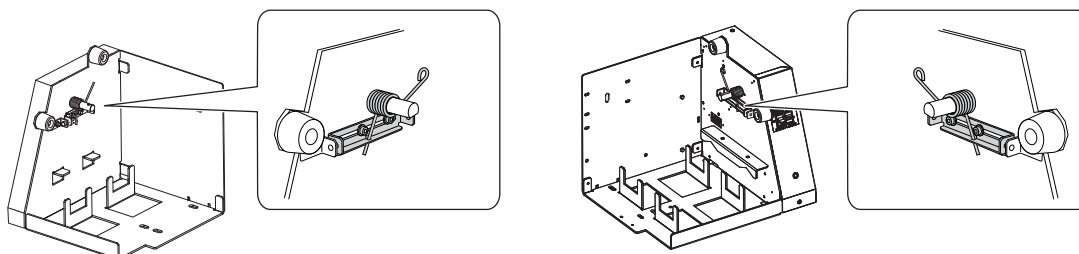
⚠ CAUTION **Unpacking and installation must be carried out by two or more persons.**
Otherwise the machine or the stand may fall, resulting in injury.

1. Assemble the take-up unit.

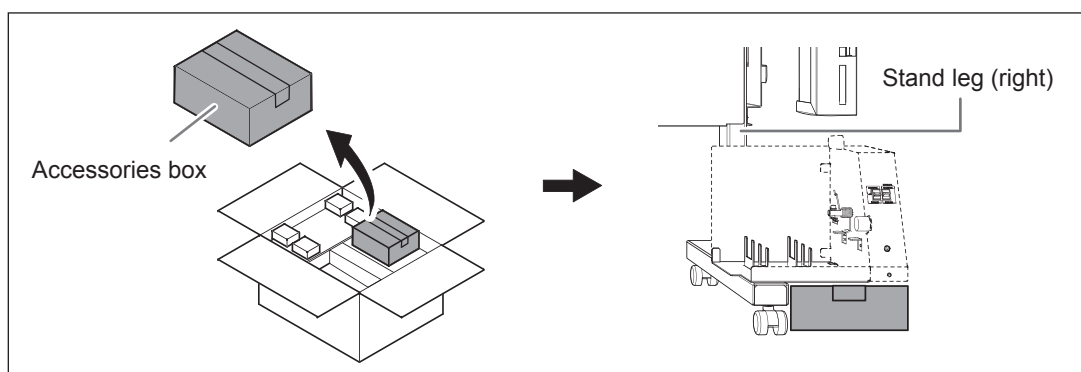
When using the RT-640

First, carry out the procedure described below. (Entrust the work to a Roland service technician. This procedure is not required for models other than the RT-640.)

Either remove the springs, screws (x2), and brackets from the control box and frame or adjust the position of the springs, screws (x2), and brackets depending on how the machine will be used (i.e. with the BACKWARD or FORWARD setting).

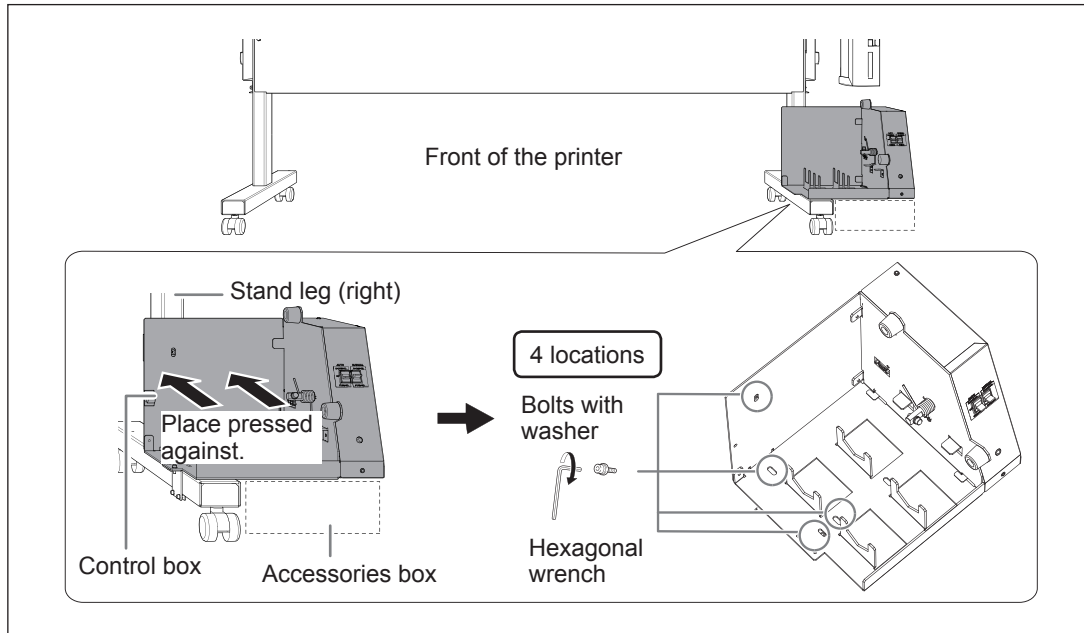


- 1 Place the accessories box beneath the stand leg (right) of the printer.
When attaching the control box, use the accessories box to hold it up.

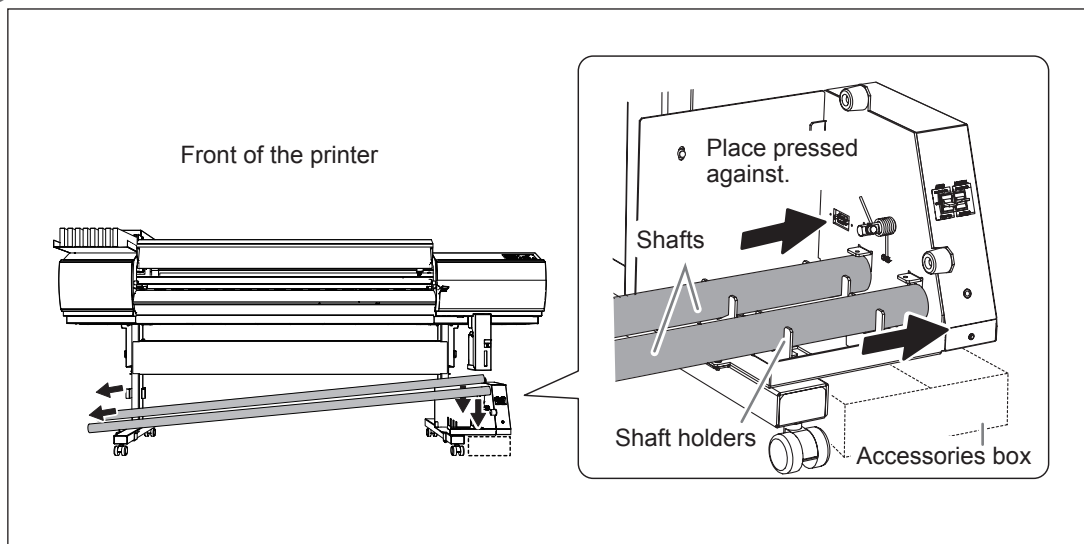


2 Attach the control box to the stand leg (right) of the printer.

- ① Press the control box against the stand leg (right) on the back, and Loosely tighten the bolts with washer in the 4 locations shown in the figure.
- ② Fully tighten all the loosely-tightened bolts with washer.



3 Place the shafts on the shaft holders in the control box.



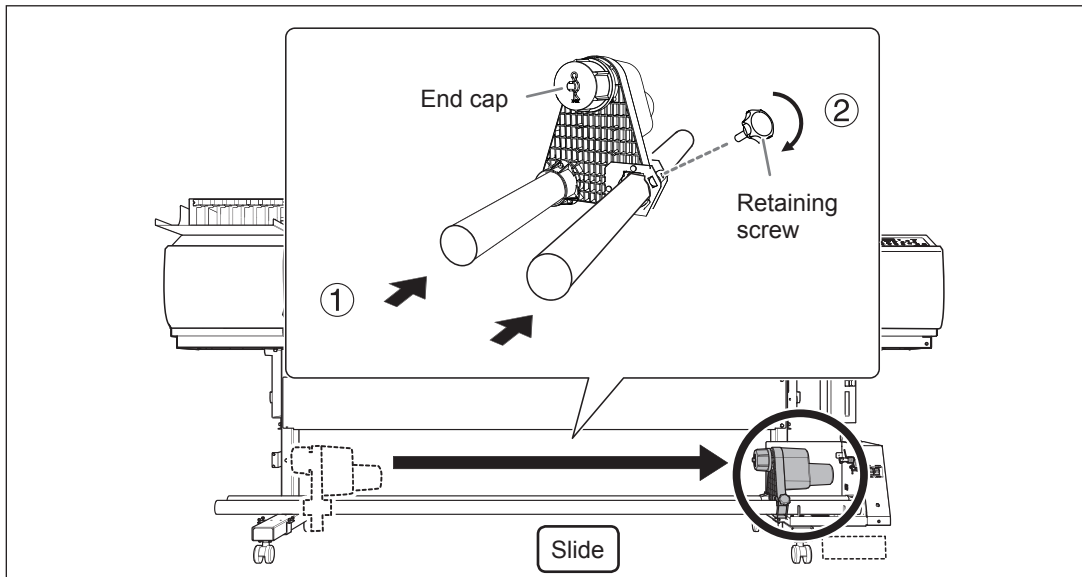
3. Assembling and Installing

4 ① Slide the media holder with motor onto the shafts.

With the end cap facing to the left, slide the media holder onto the shafts from the left to the side of the right shaft holder when viewed from the front of the printer.

② Attach the retaining screw to the media holder with motor.

Tighten the retaining screw lightly.

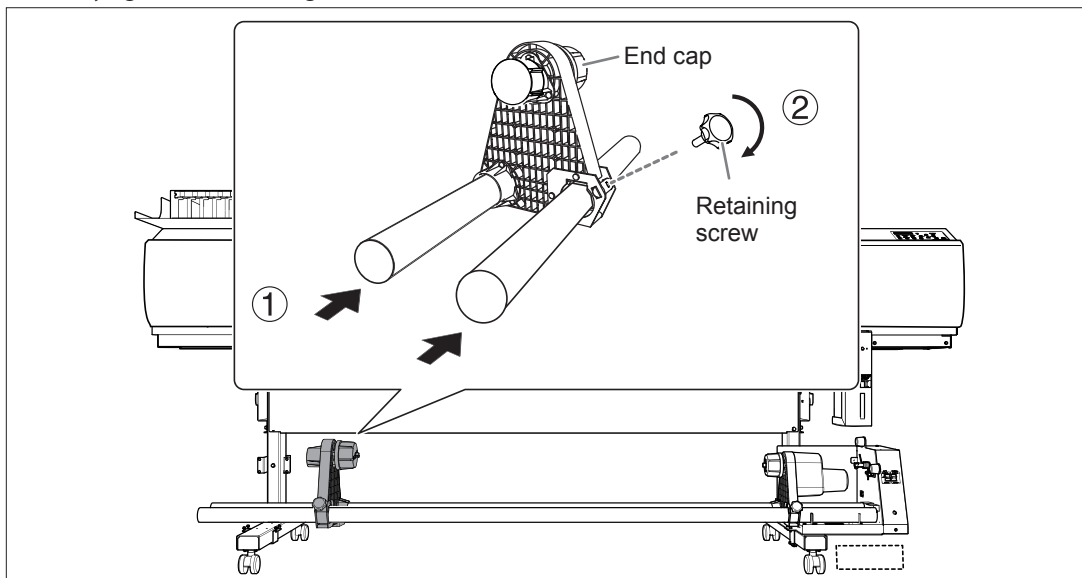


5 ① Slide the media holder L onto the shafts.

With the end cap facing to the right, slide the media holder onto the shafts from the left when viewed from the front of the printer.

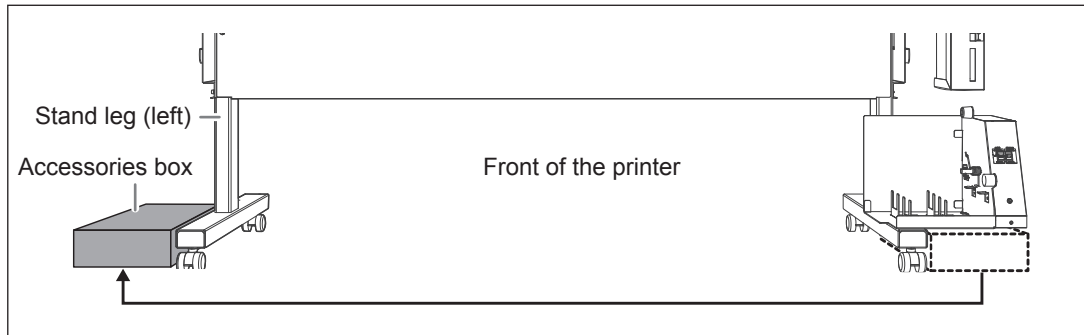
② Attach the retaining screw to the media holder L.

Loosely tighten the retaining screw.

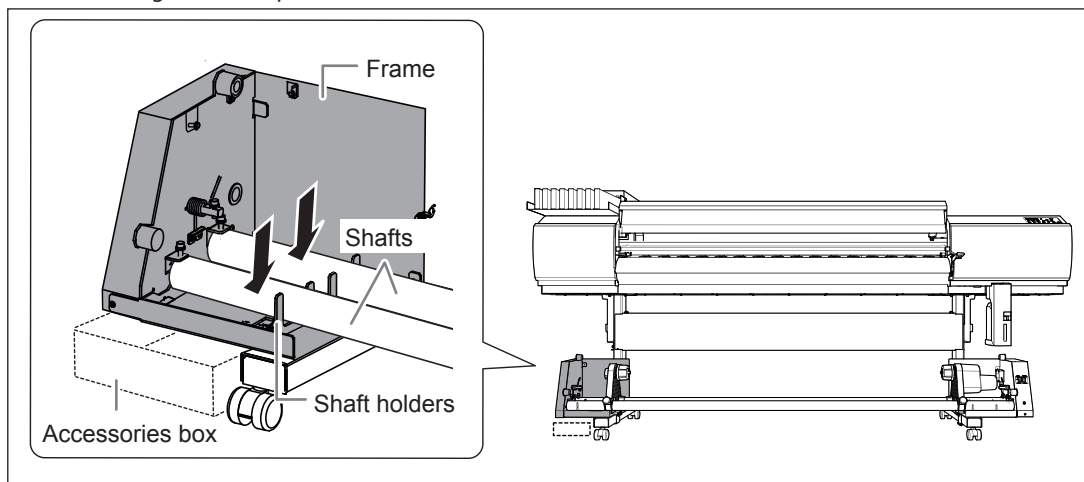


- ⑥ Remove the accessories box from the stand leg (right) and place it beneath the stand leg (left) of the printer.

When attaching the frame, use the accessories box to hold it up.



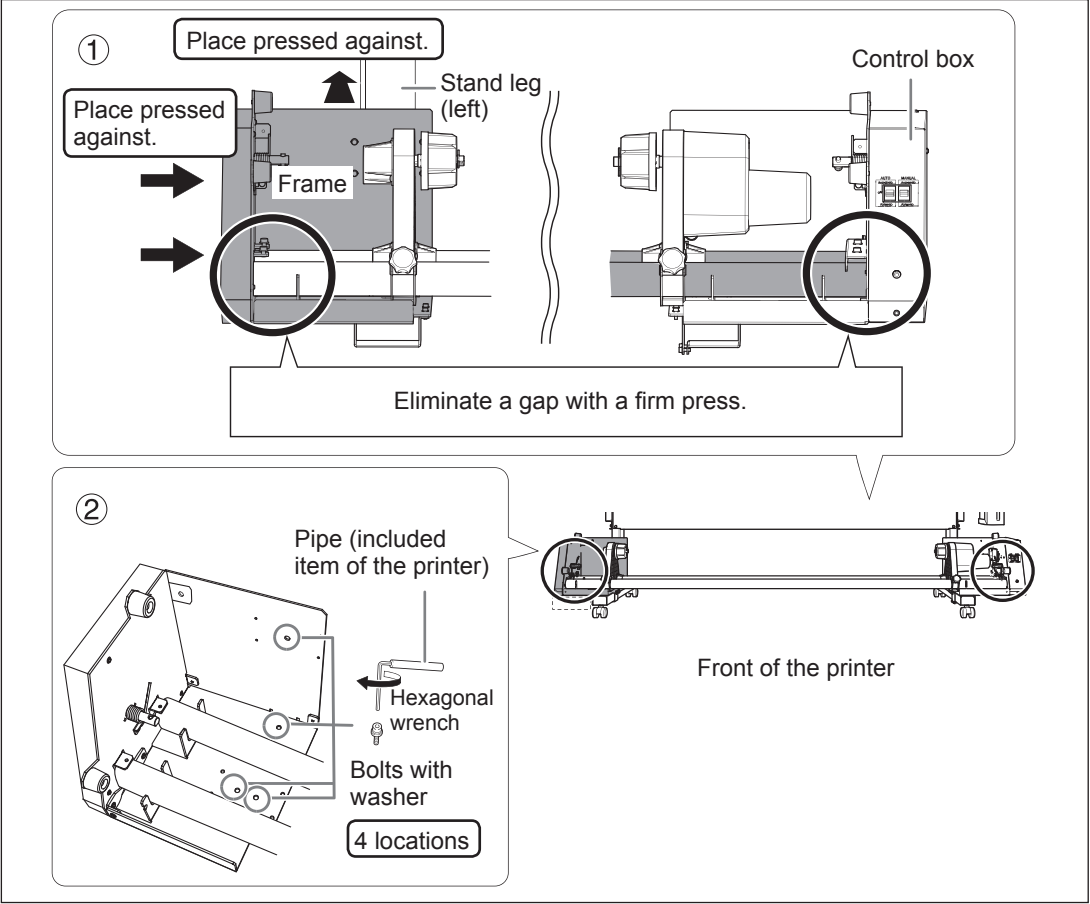
- ⑦ Place the frame on the stand leg (left) of the printer.
When setting the frame, put the shafts on the shaft holders of the frame.



3. Assembling and Installing

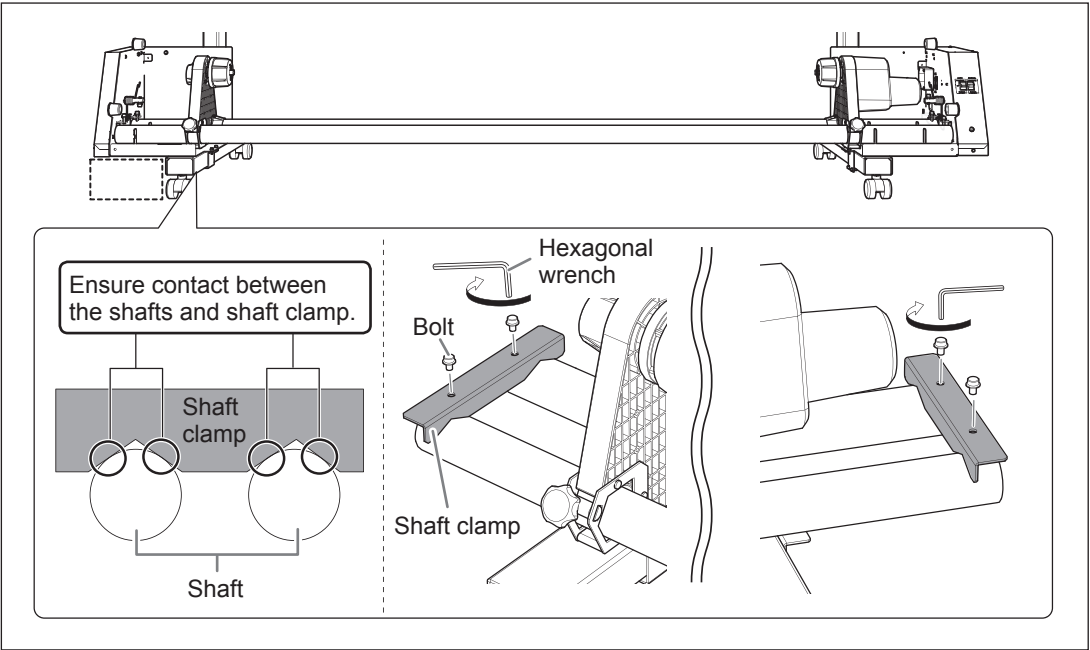
8 Attach the frame to the stand leg (left) of the printer.

- ① Press the frame against the shafts and the stand leg (left) on the back, and sandwich the shafts firmly with the frame and the control box.
- ② Loosely tighten the bolts with washer in the 4 locations shown in the figure, and then fully tighten all the loosely-tightened bolts with washer.



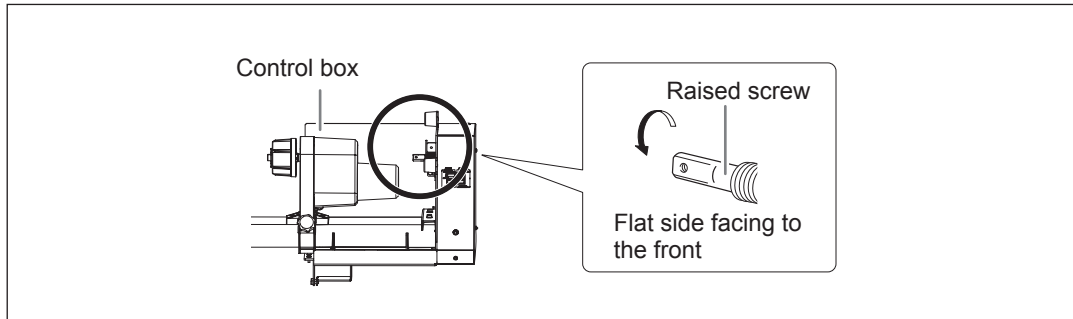
9 Secure the shaft.

Secure the shaft clamps by the bolts.

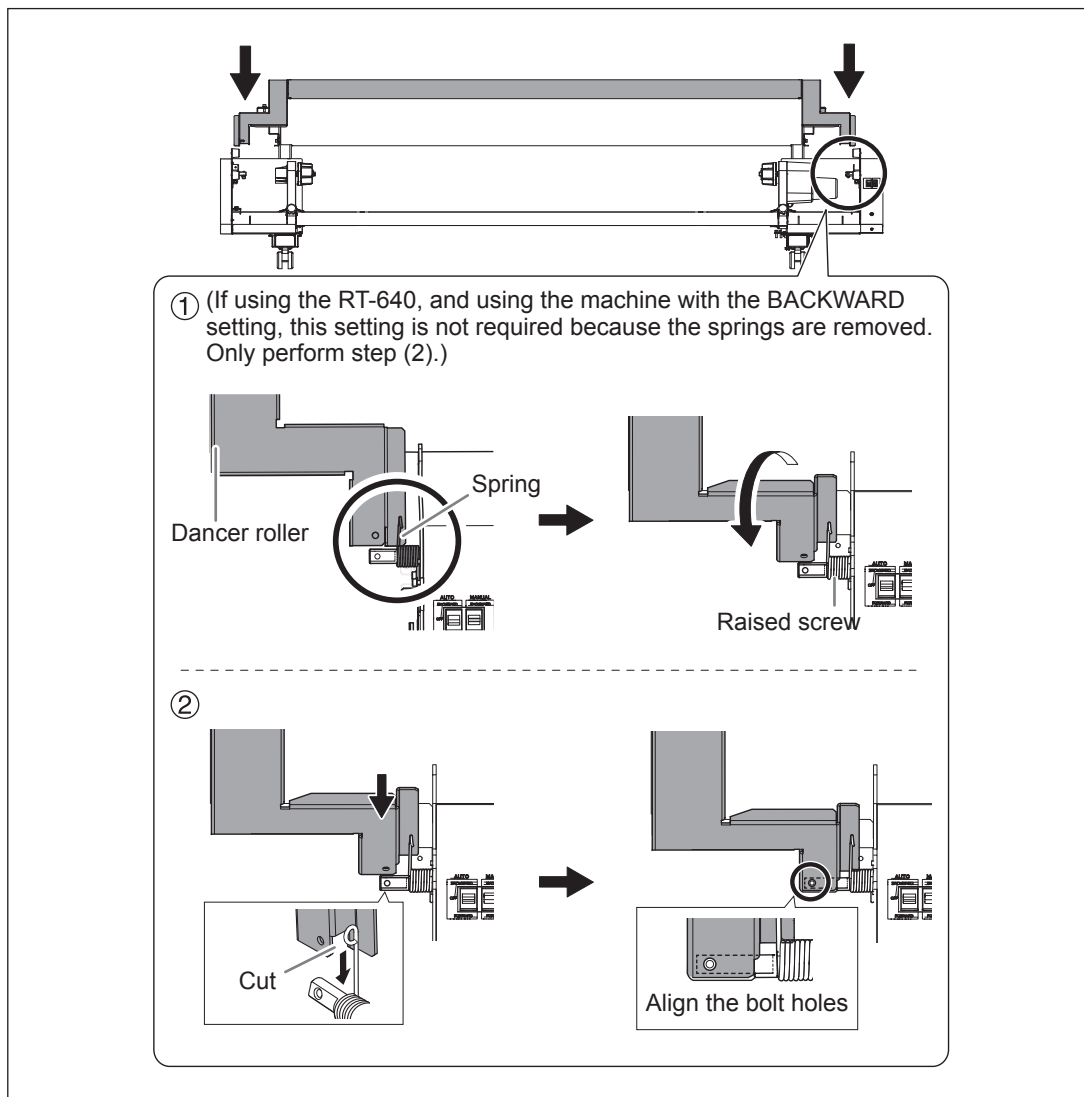


2. Attach the dancer roller and place the media supports.

- 1** Adjust the orientation of the raised screw of the control box.
Make the flat side of the raised screw face forward.



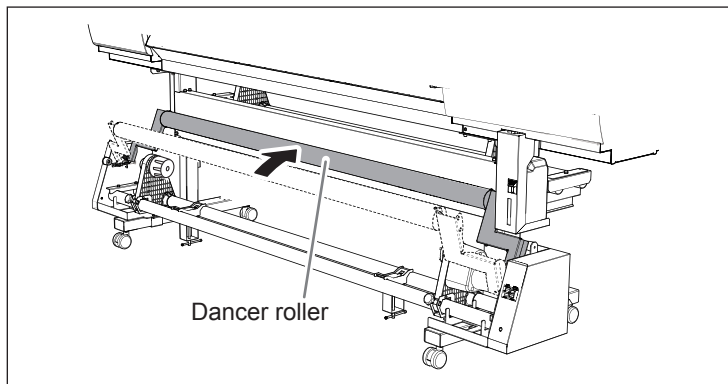
- 2** **1** Raise the spring of the control box upright by pushing it with the dancer roller from the rear. (If using the RT-640, and using the machine with the BACKWARD setting, this setting is not required because the springs are removed. Only perform step (2).)
2 Slide the cut on the right side of the dancer roller onto the raised screw, and align the bolt holes.



3. Assembling and Installing

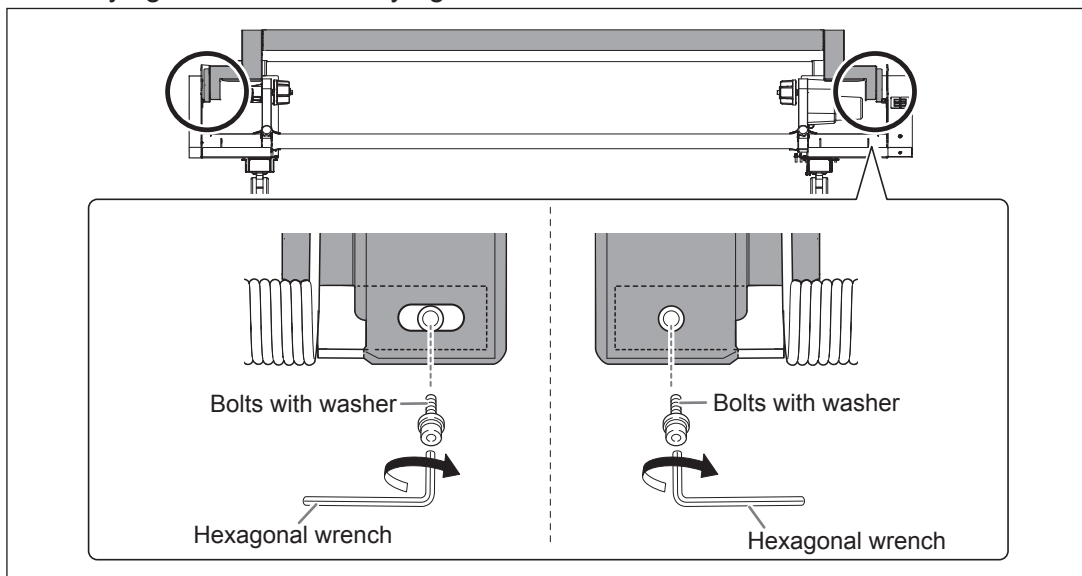
- 3 Attach the end of the dancer roller on the frame side with the same procedure 1-2.

4

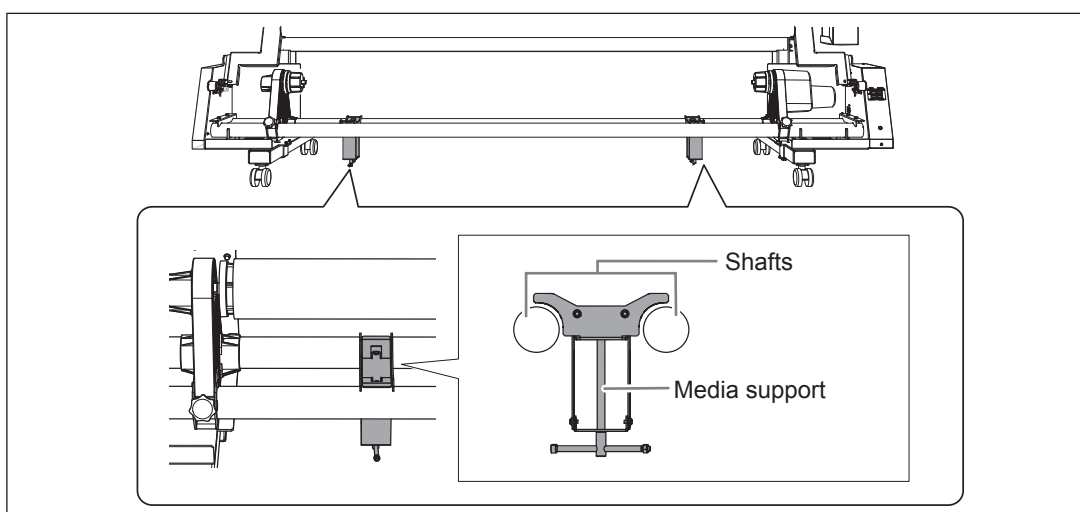


Lift the dancer roller to the rear.

- 5 ① Line up with the bolt holes, and loosely tighten the bolts with washer.
Loosely tighten the bolts with washer on the side of the control box first.
② Fully tighten all the loosely-tighten bolts with washer.



- 6 Place the media supports between the two shafts.
Be sure to set the media supports in the inner side of the both media holders.



3. Connect the cables.

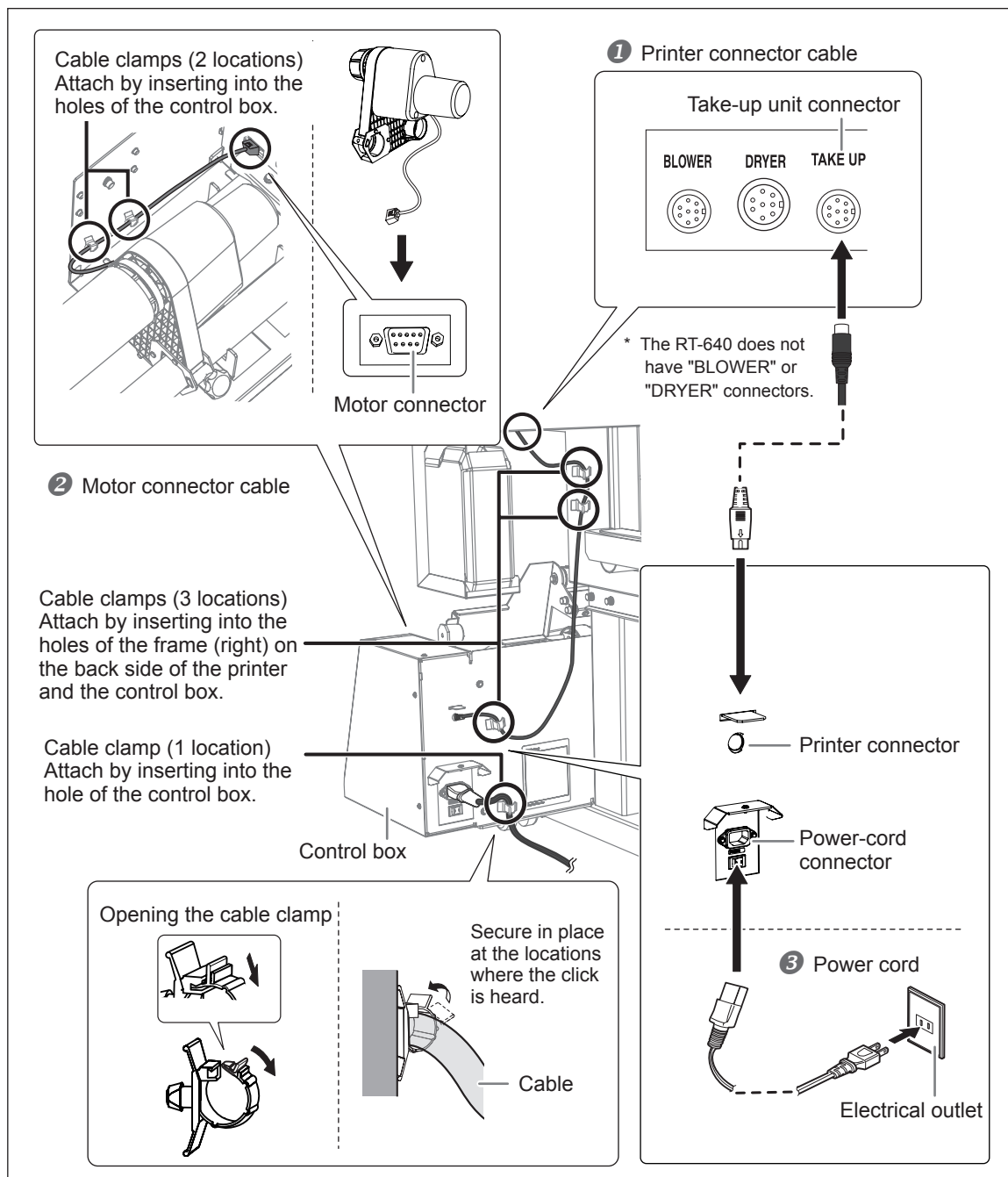
⚠ WARNING Connect to electrical outlet that complies with this machine's ratings (for voltage, frequency, and current).

Incorrect voltage or insufficient current may cause fire or electrical shock.

- 1 Connect the printer connector cable into the printer connector and take-up unit connector.
Affix cable clamps at the 3 locations shown in the figure and pass the cable through it and secure.
Note: When using an auxiliary drying unit, you do not have to attach new two cable clamps to the frame (right) as the cable clamps for the auxiliary drying unit are already attached. Route the printer connector cable and the auxiliary unit cable together through the clamps and secure them.

- 2 Connect the motor connector cable into the motor connector.
Affix cable clamps at the 2 locations shown in the figure and pass the cable through it and secure.

- 3 Connect the power cord into the electrical outlet.
Affix cable clamps at the 1 location shown in the figure and pass the cable through it and secure.



4. Operation

Operating Conditions for the Take-up Unit

Never pull the media with excessive force.

Pulling the media with excessive force may actuate the protective feature and result in an error. To avoid pulling the media with excessive force, be sure to observe the following points.

- Never operate the MANUAL switch on the take-up unit with media secured by the loading lever. Media may be pulled by excessive force and result in an error.

Never use the automatic-cutoff feature of media.

When the setting to execute automatic cutoff of the media is made on the computer, media cutoff is performed when printing of one page finishes. When you're performing continuous printing and take-up for two or more pages, turn off the automatic-cutoff feature on the computer. Take-up quits as soon as the media is cut off.

About the Paper Tube

For the paper tube, use the included item.

The included paper tube is a special part exclusively for use with this machine. Using something other than the included item may result in spinning without traction or other problems that impede media take-up.

The paper tube is a part that wears out.

The paper tube is a part that wears out. The replacement cycle varies according to usage conditions, but to ensure good media take-up, monitor the state of the paper tube and replace it when necessary. To purchase a replacement, contact your authorized Roland DG Corp. dealer.

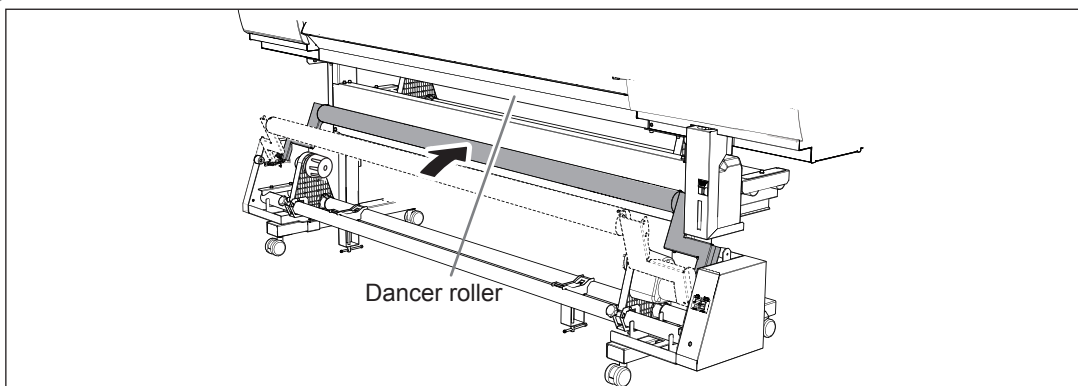
How to Load Media

- ⚠ CAUTION** Load roll media correctly.
Otherwise the media may fall and cause injury.
- ⚠ CAUTION** Roll media may weigh 50 kg or so. To avoid injury, handle with care.
- ⚠ CAUTION** Never load media that weighs more than 50 kg (110 lb.) (or possible maximum weight to load to the printer).
The printer may fail to withstand the weight and topple over, or the media may fall from the unit.

NOTE: If using the RT-640, refer to the RT-640 User's Manual.

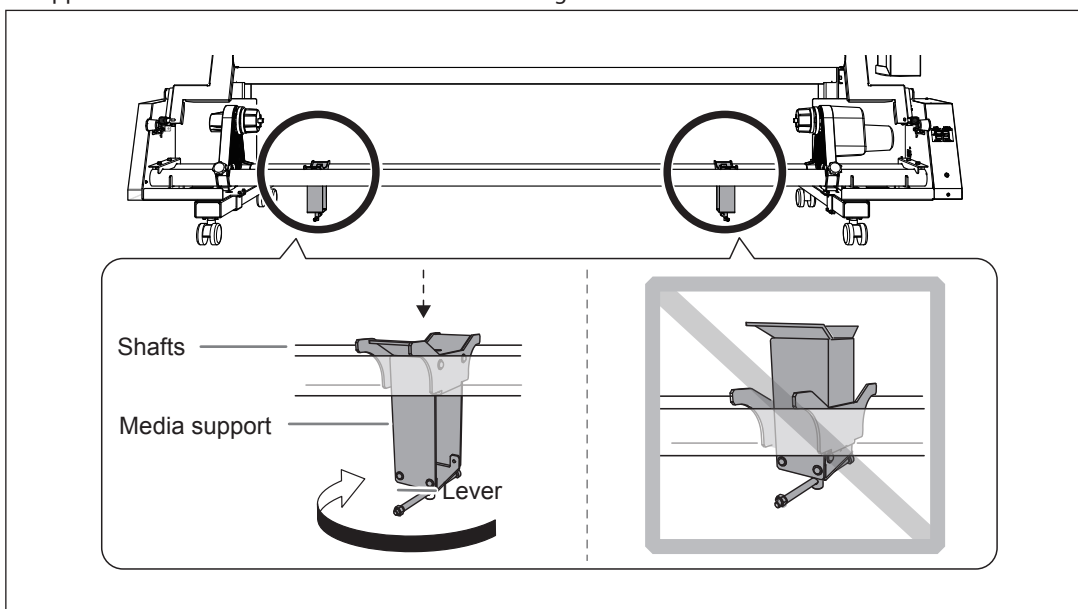
1. Mount the paper tube on the take-up unit and switch on the power.

- ① Lift the dancer roller to the rear.

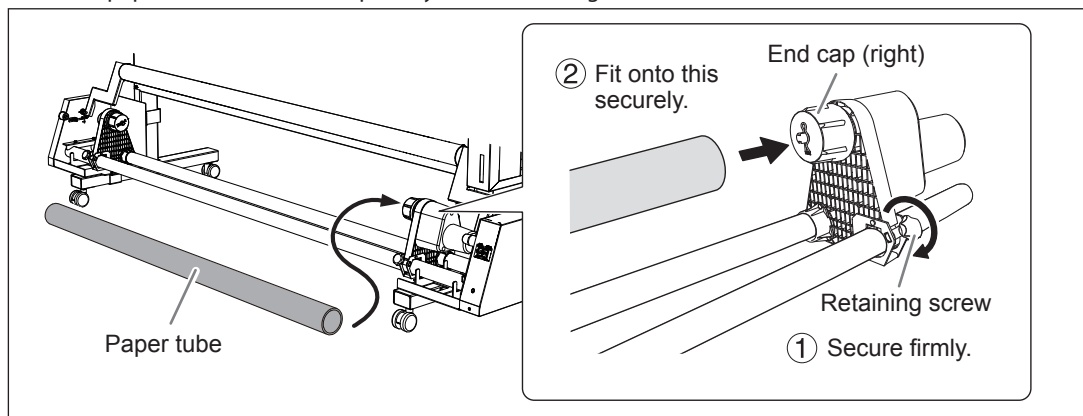


- ② Lower the height of media supports to the bottom by rotating the lever.

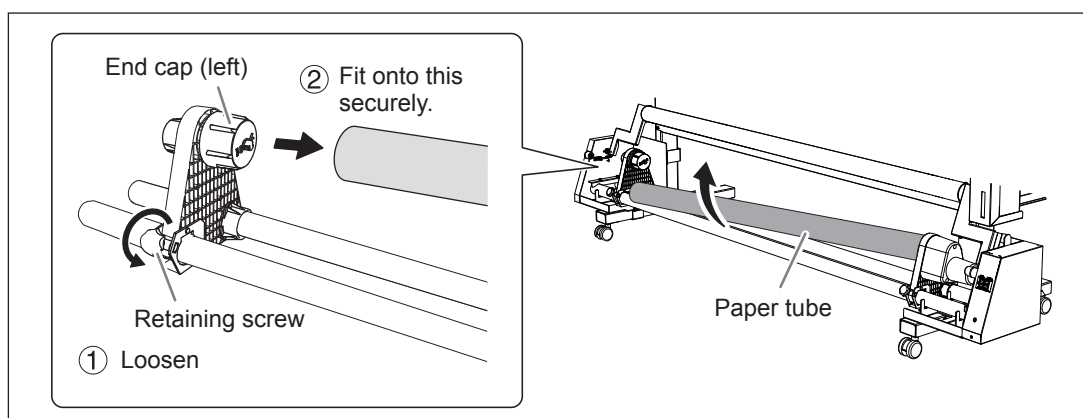
Be sure the media supports are set in the inner side of the both media holders first, and rotate the lever of the media supports in the direction of the arrow shown in the figure .



- ③ ① Secure the media holder with motor.
Secure firmly with the retaining screw.
② Insert the paper tube to the end cap (right).
Set the paper tube on the end cap firmly, as far as it will go.



- ④ ① Loosen the retaining screw of the media holder L.
② Press the end cap (left) to the paper tube, and insert it in.
Set the end cap (left) in the paper tube by moving the media holder L.



Point

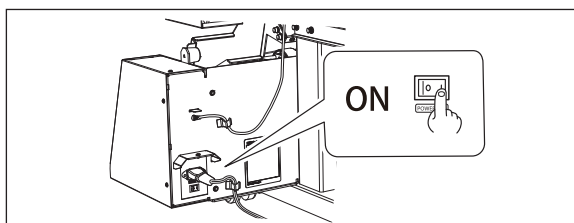
Firmly insert the end caps into the paper tube to prevent media take-up from skewing.



Notice

For the paper tube, use the included item. Using something other than the included item may result in spinning without traction or other problems that impede media take-up.

⑤



Switch on the power of the take-up unit.

⑥



Press ◀ ▶ to select "TU."

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

1 Load the roll media onto the printer.

To load the roll media, see the user's manual of your model.

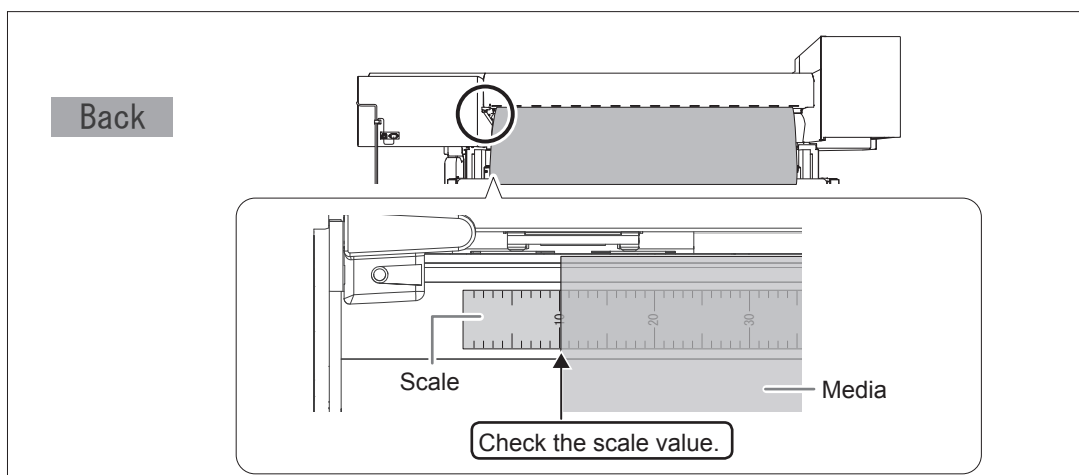
2 Adjust the right edge position of the media.

When using this machine, use the scales provided on both front and rear sides of the printer to align the right end of the media. You can prevent the skewing of media take-up by setting media horizontal using the scales. For details on how to use the scales, see the POINT below.



Point

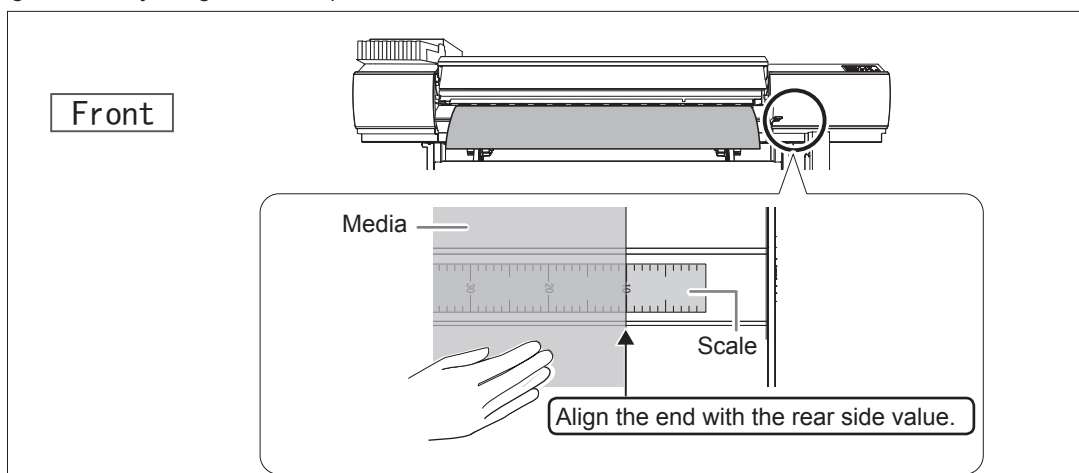
1. Check the position of the media with the scale on the back of the printer.



2. Adjust the position of the media on front of the printer so that its position passes through the scale marks with the same value* on rear side of the printer.

*The difference in scale values between the front and rear sides must be within 1 mm.

To adjust the media position, you need to operate the loading lever. Ensure that the media is kept tight when adjusting the media position.



3. If the difference between the rear and front scale values indicating the position of the media is 1 mm or more, redo to adjust the position of media.

IMPORTANT! Remove roll media when not in use.

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

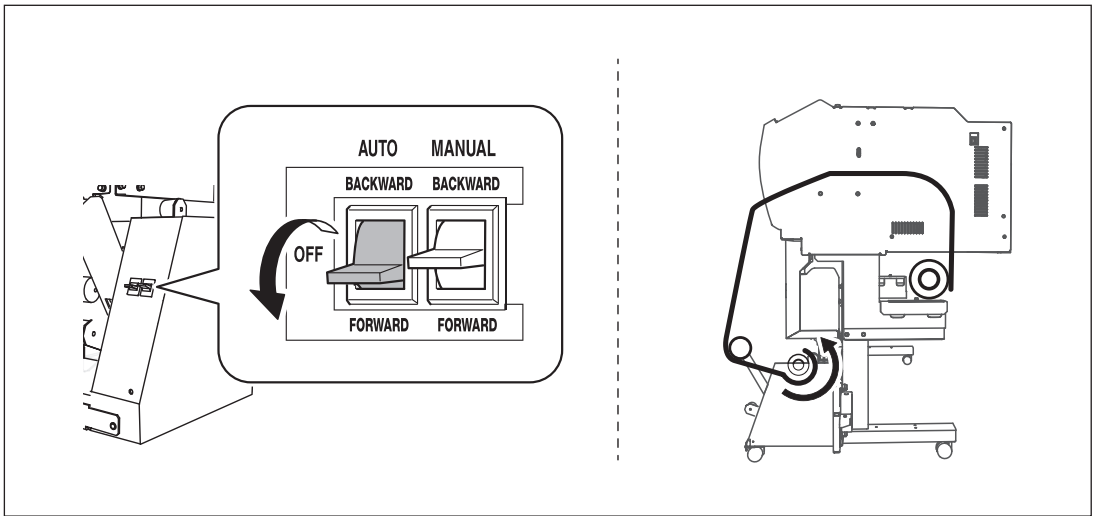
3. Make the settings for the take-up unit.

1

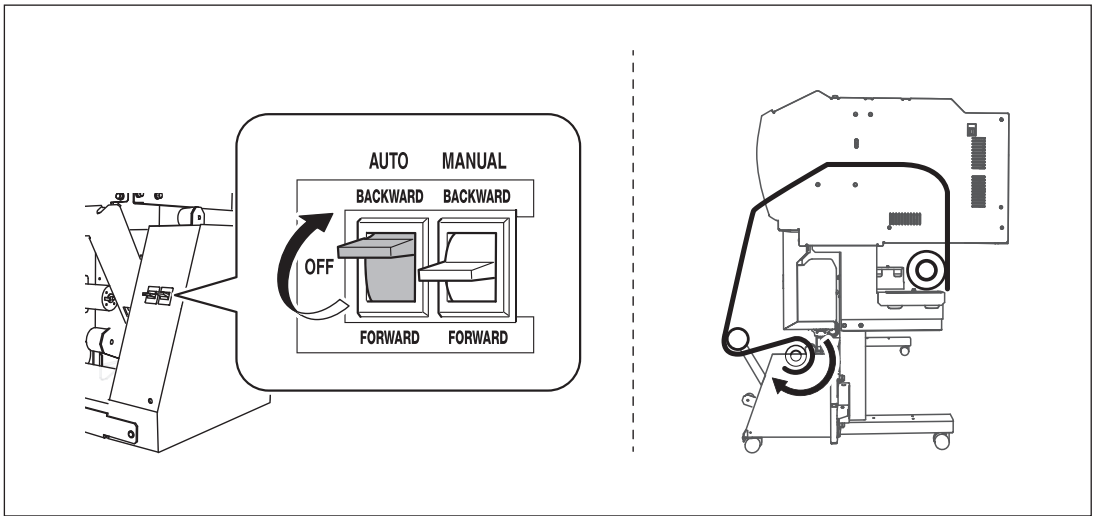
CHECK
TAKE-UP SETTING

Make the setting for the AUTO switch on the take-up unit.

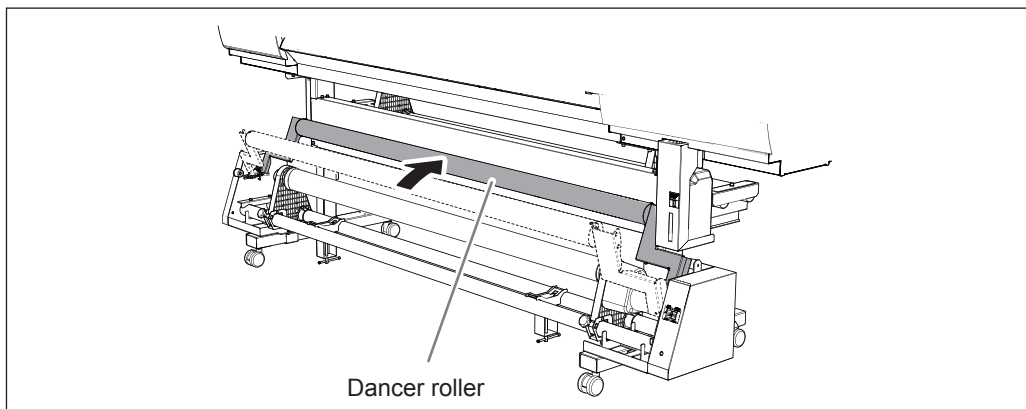
Take-up with outward curl



Take-up with inward curl



- 2 Lift the dancer roller to the rear.



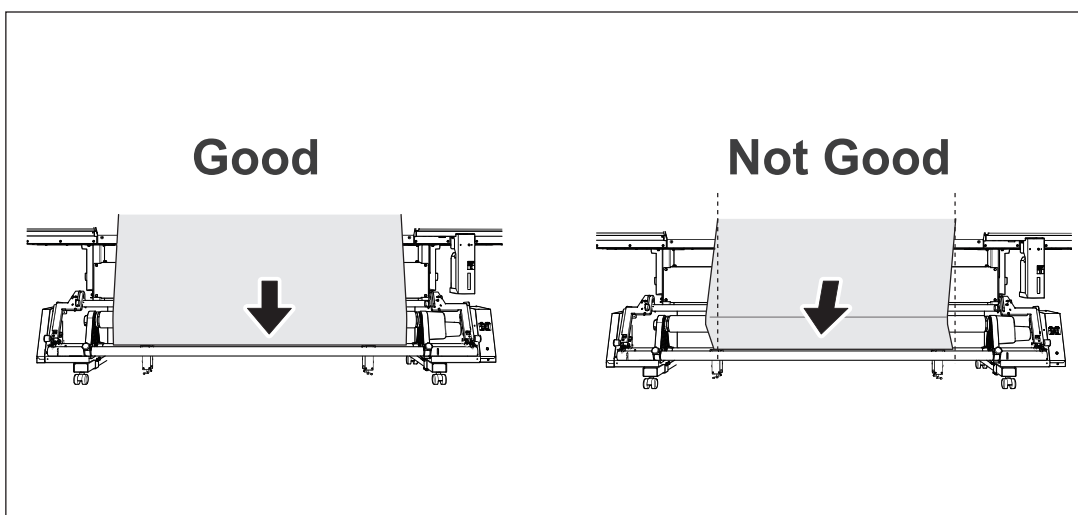
- 3 Press **ENTER**.

4. Fasten the media to the paper tube.

- 1 **LOAD SHEET TO TAKE-UP**

Press **▼** to pull out the media.

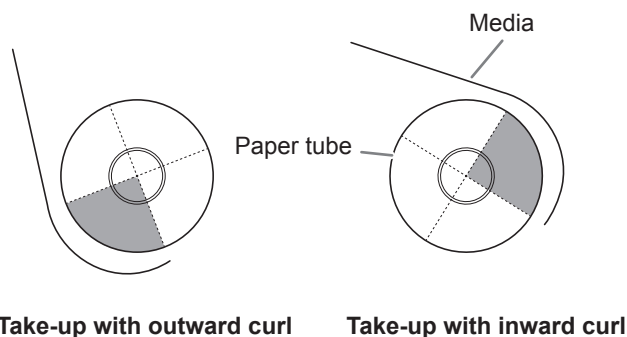
You can adjust the length of the media in 1mm (0.039 inch) steps by pressing **▼**. To pull out media continuously, hold down the key.



Point

Pull out the media until it is wound around one fourth of the paper tube or more.

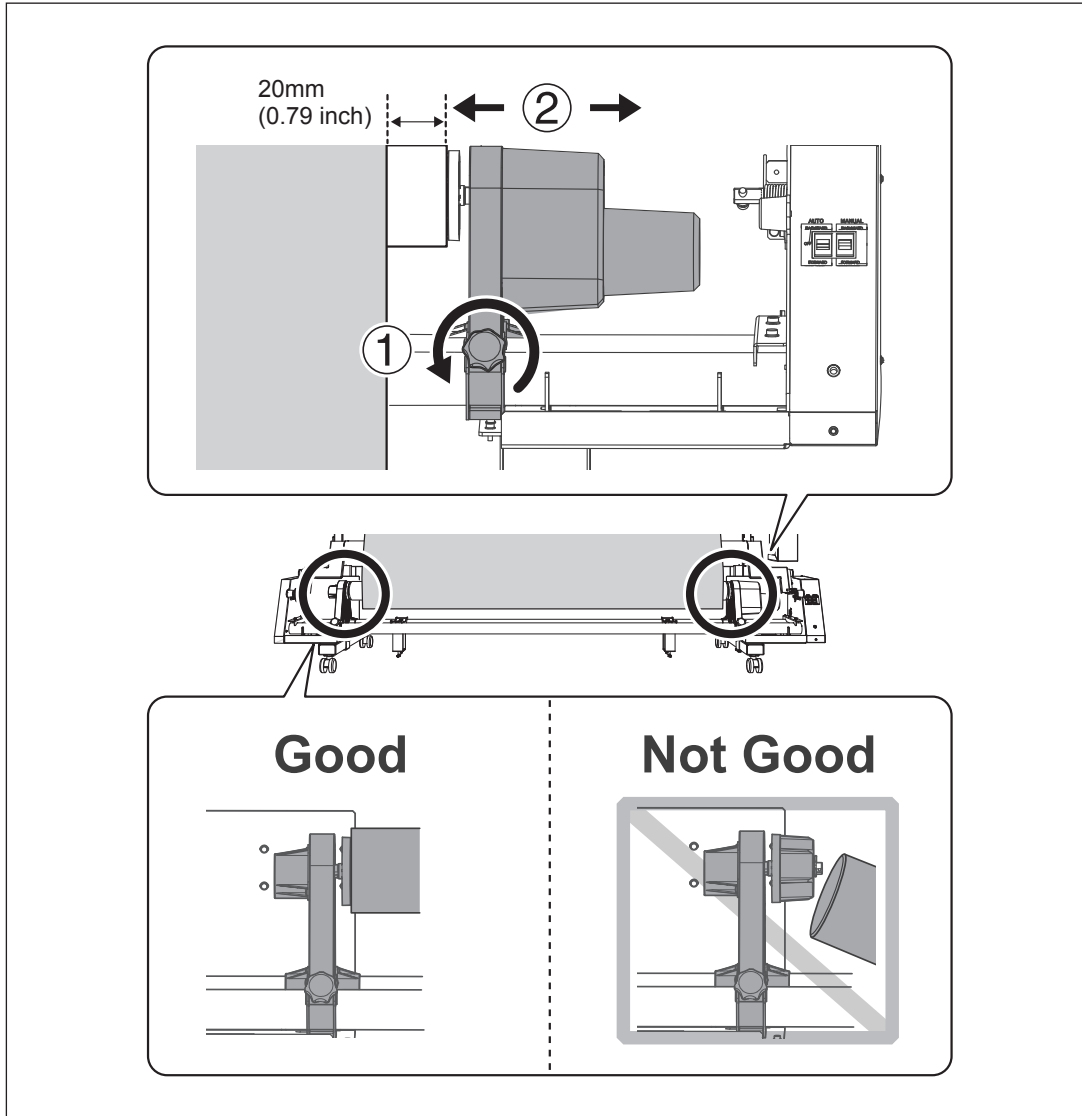
Length for winding
one fourth or more



4. Operation

- ② ① Loosen the retaining screw of the media holder with motor.
② Adjust the position of media holders.

Move the position of the both media holders to make the paper tube come out by 20mm (0.79 inch) from right edge of the media.



Point

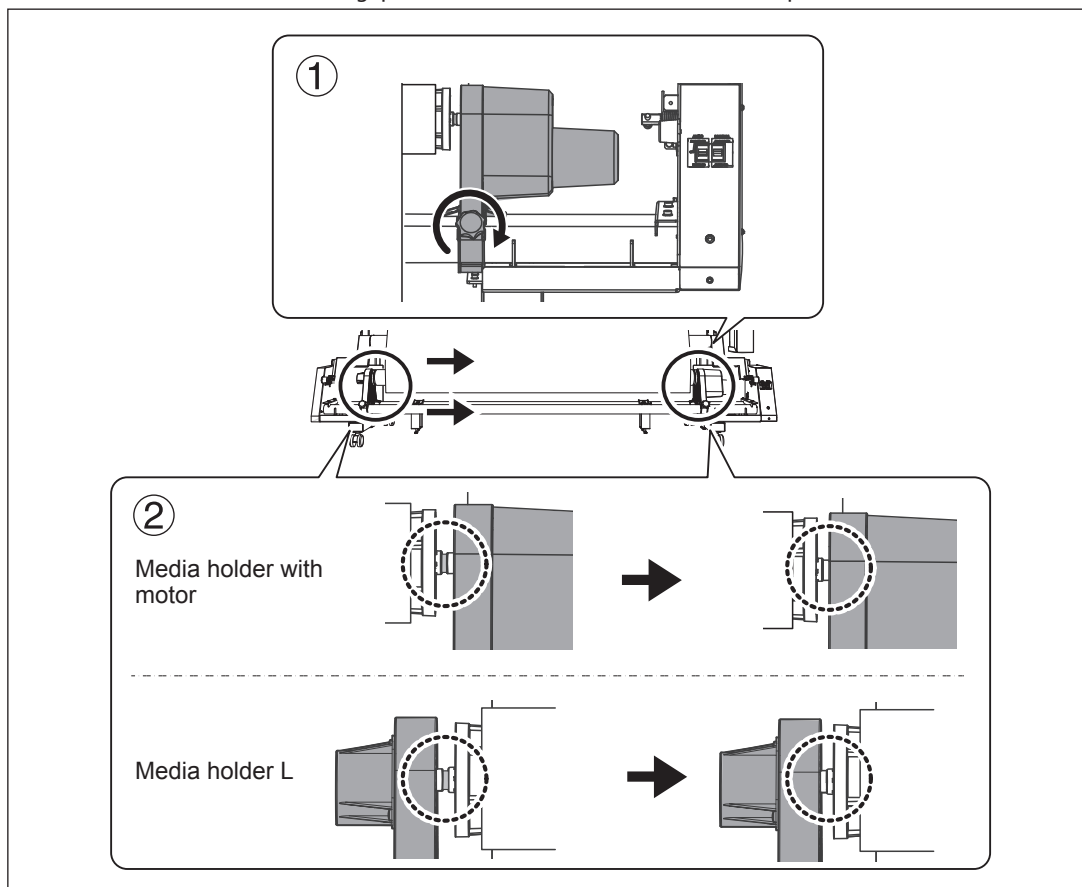
To prevent the paper tube from partially or completely being detached from the end caps, firmly secure the paper tube with both media holders when moving them.

3 ① Secure the position of the media holder with motor.

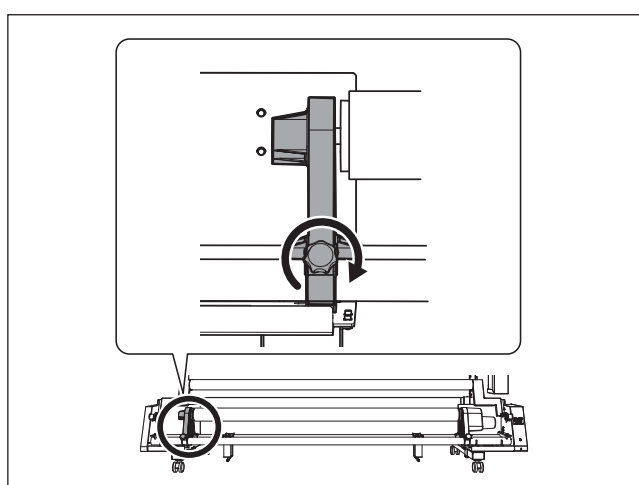
Tighten the retaining screw firmly.

② Push the media holder L in the direction of the media holder with motor so that the end caps are firmly fit into the paper tube.

Push the media holder L until the gaps between the media holders and end caps are eliminated as shown in the figure.



4



Secure the position of the media holder L.

Tighten the retaining screw firmly.



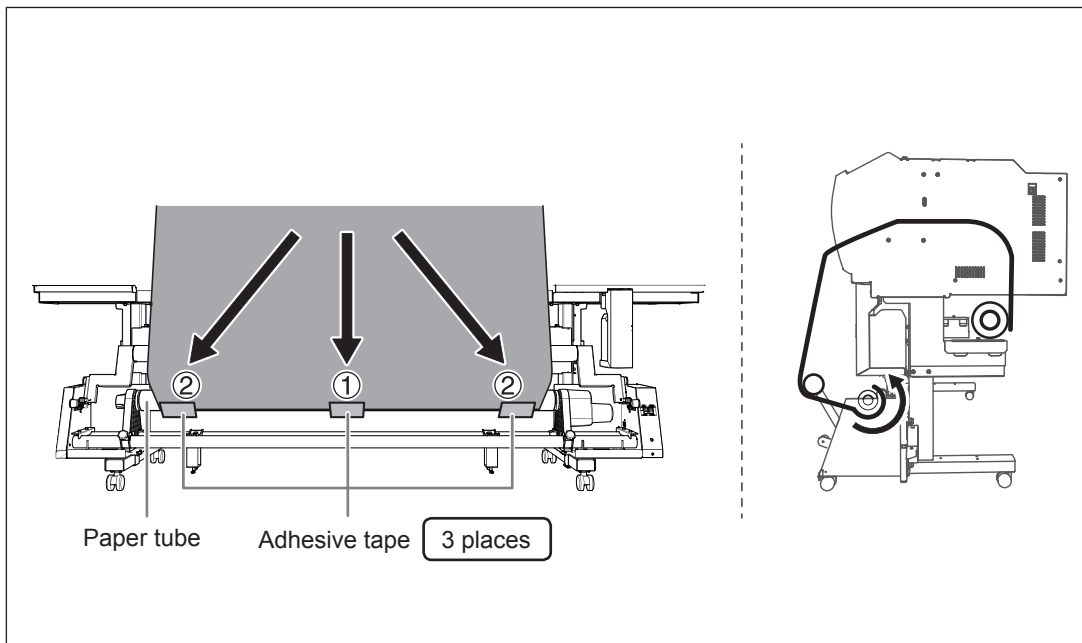
Point

Slide the paper tube from side to side. If it rattles, redo the steps from Procedure 2.

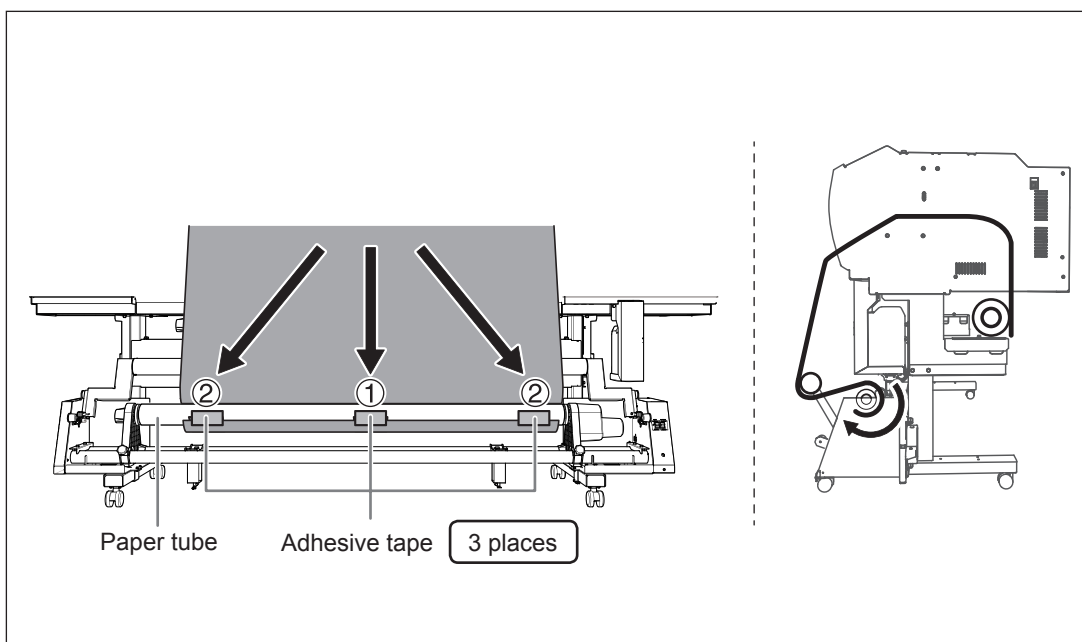
4. Operation

- 5 Using adhesive tape, fasten the center and side edges of the media to the paper tube (fasten a total of 3 locations).
- ① Fasten the center of the media in place while keeping the media stretched taut to keep it free of slack.
 - ② While pulling the media from the center outward, fasten the left and right edges.

Take-up with outward curl



Take-up with inward curl

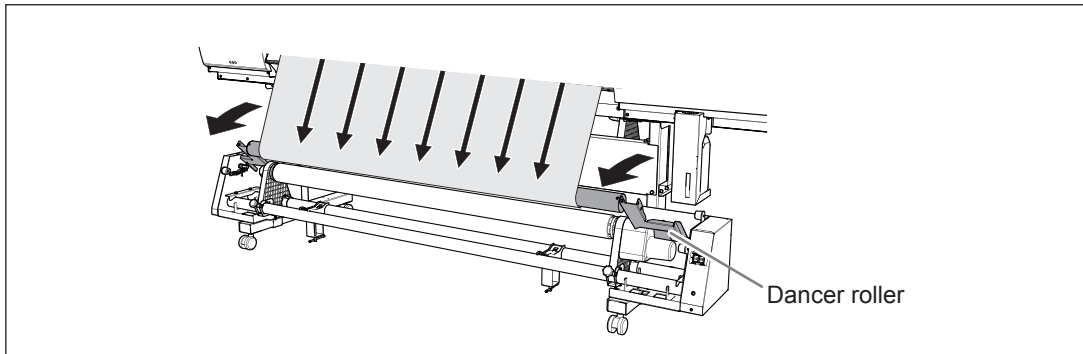


- 6 Press **ENTER**.
- The media is fed out to the front.

7

TILT DANCER
ROLLER TO FRONT ↙

Lay the dancer roller forward, and press **ENTER**.



Point

When you begin take-up, take care to ensure that the end of the media does not become rolled or creased.

IMPORTANT!

When you press **SHEET CUT** to cut off the media, the setting of media is released. Set the media again.

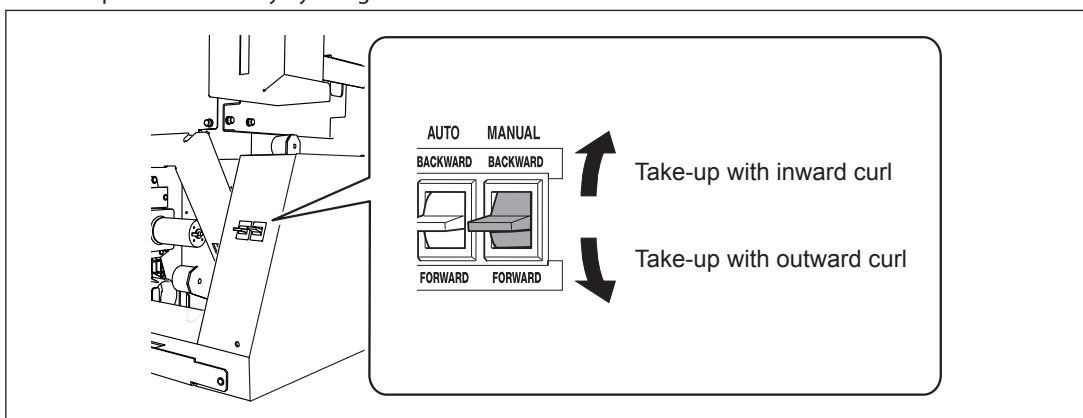
8

W 1346 mm

Making the setting completes when the length of the media appears in the screen.

To Take up Media Manually

You can take up media manually by using the MANUAL switch.



Notice

Do not operate the MANUAL switch with media secured by the loading lever. Pulling the media with excessive force may actuate the protective feature and result in an error.

Redoing Halfway Through Media Setting

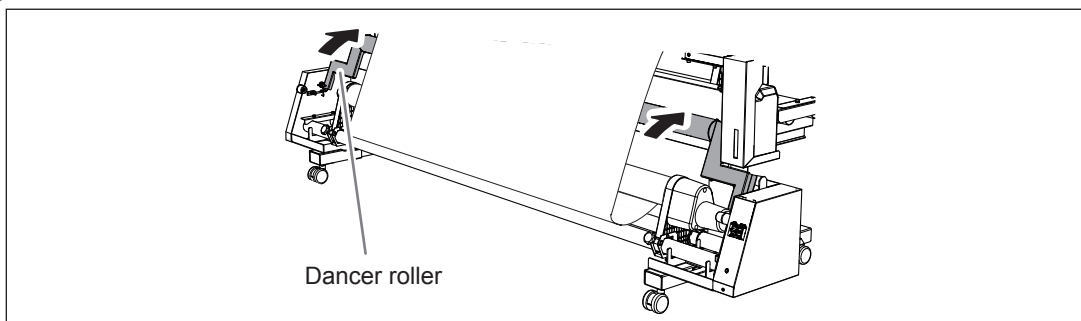


When you hold down **SET UP** 3 seconds or longer, the display returns to the [SETUP SHEET] screen. Reset the media in accordance with the procedure.

How to Remove Taken-up Media

⚠ CAUTION Removal of taken-up roll media from the unit is a task which must be carried out by two or more persons. Otherwise the media may fall and cause injury.

- 1 Lift the dancer roller to the rear.



- 2 Cut off the media.

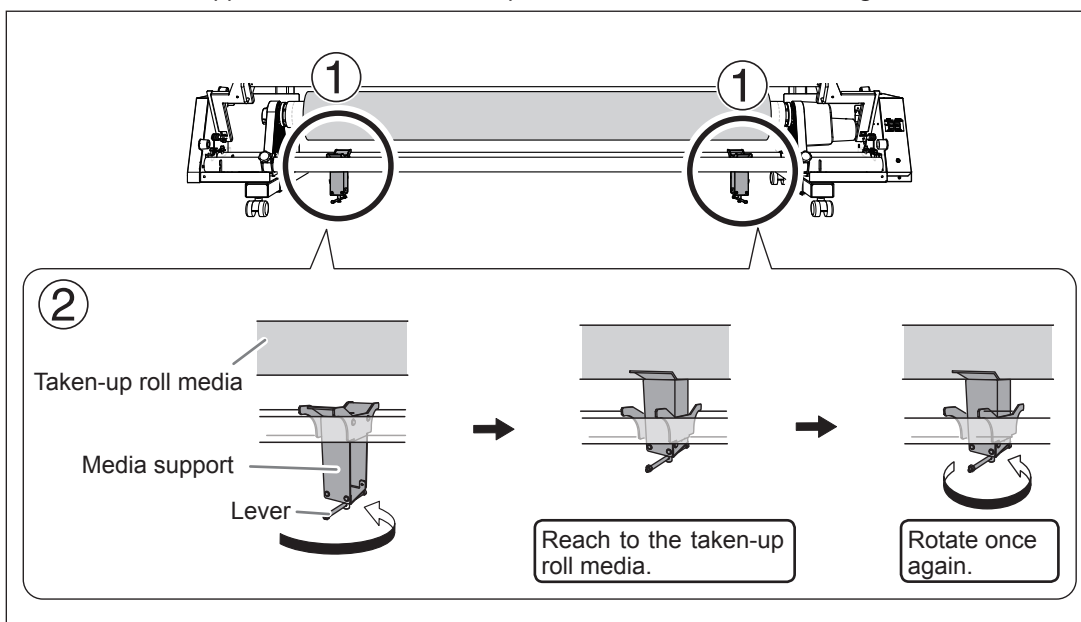
☞ To cut off the media, see the user's manual of your model.

- 3 ① Move the media supports under the taken-up roll media.

Adjust the positions of the media supports so that they are within both ends of the media.

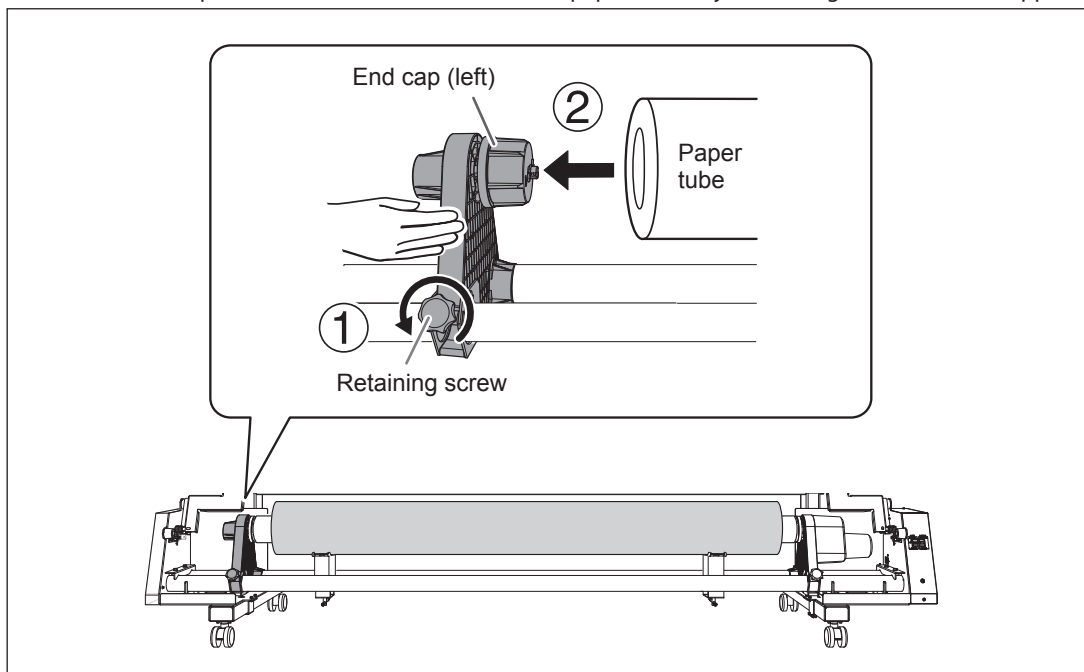
- ② Adjust the height of the media supports by rotating the lever to come beneath the taken-up roll media.

After the media supports reaches to the taken-up roll media, rotate the lever once again.



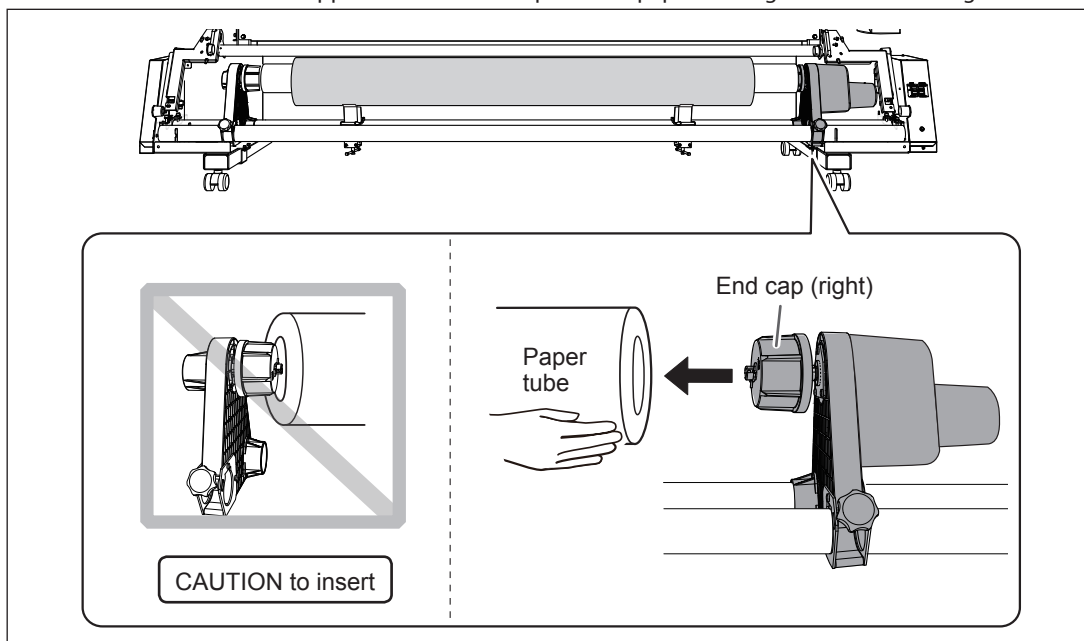
- 4 ① Loosen the retaining screw of the media holder L.
② Detach the media holder L from the paper tube.

When the end cap (left) is difficult to remove from the paper tube, adjust the height of the media supports.



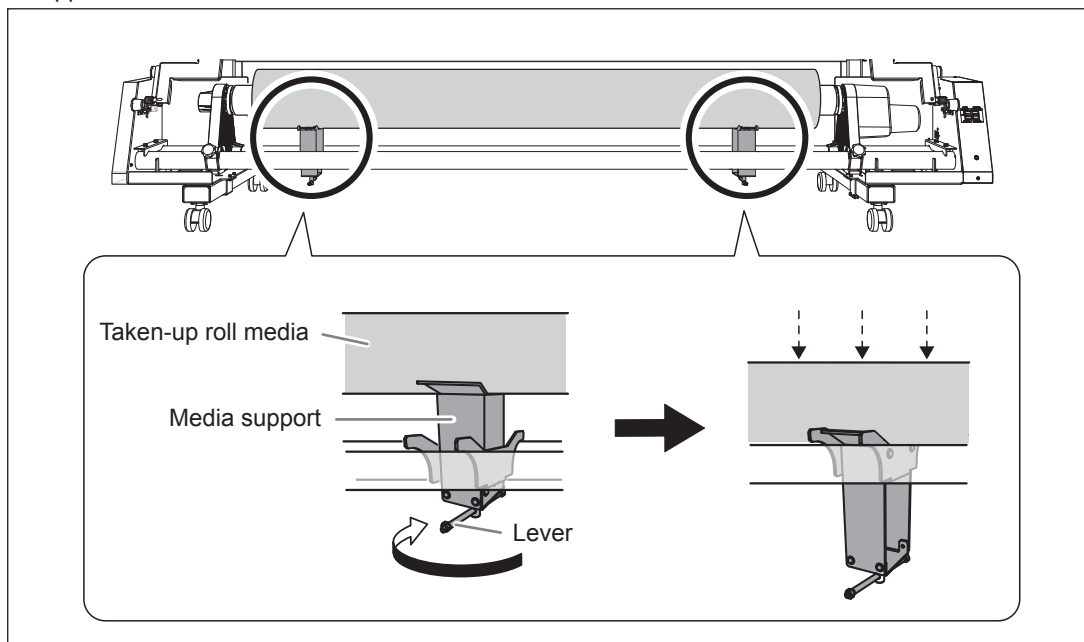
- 5 Detach the paper tube from the End cap (right).

Make sure not to insert the opposite side of end cap into the paper tube again when detaching.



6 Lower the height of media supports to the bottom.

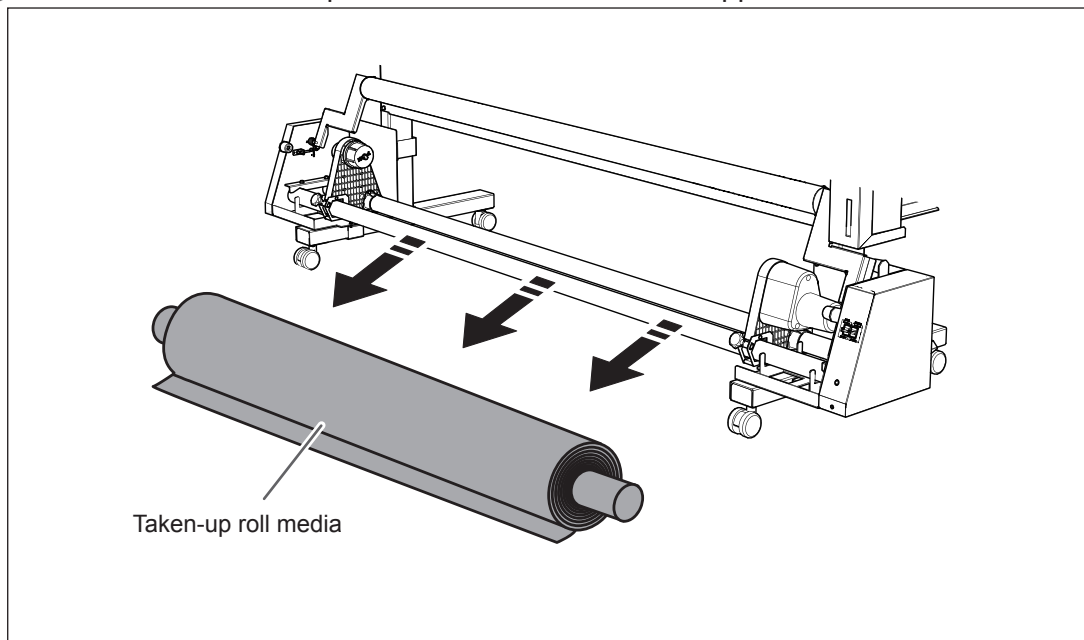
Before lowering the media supports by rotating the lever, make sure the taken-up roll media is on the both of media supports.



IMPORTANT!

Be sure to lower the media supports to the bottom. Failure to do so may result in breakdown.

7 Take down the taken-up roll media from the media supports.



5. What to do if...

The Take-up Unit doesn't Take up Media.

Is the power cord connected correctly?

Connect securely, so that the connection will not come loose or be incomplete.

Is the AUTO switch set to [OFF]?

Set the AUTO switch to match the direction of take-up.

Is the setting for the AUTO switch at the correct position?

Orient the setting of the AUTO switch to match the direction of take-up for the media.

Is automatic cutoff of the media being performed?

Take-up quits as soon as the media is cut off. On the computer (the software RIP), make the setting so that the printer doesn't perform automatic cutoff. For more information about the setting for automatic cutoff, refer to the documentation for the software RIP.

Is the paper tube installed correctly?

Securely insert the paper tube onto the end caps. If the paper tube is not attached correctly, it may spin without traction and fail to take up the media.

☞ P. 28, "4. Operation" (Procedure 1.- ③ ④)

Is the paper tube bent or sagging?

Media cannot be taken up smoothly when the paper tube is bent or sagging.

Are you using the included paper tube?

For the paper tube, use the included item. Using something other than the included item may result in spinning without traction or other problems that impede media take-up.

☞ P. 28, "About the Paper Tube"

Is the media loaded correctly?

Remove the media, then redo media loading from the beginning.

Media Take-up is not Straight.

Is the paper tube set on the end cap firmly?

Insert the end caps into the paper tube to a degree that the paper tube does not move when you touch it.

Is the position of the media aligned with a scale?

Remove the media, and align its right end with the front and rear scale marks on the printer.

Is media fasten tight to the paper tube?

If media is fasten loose to the paper tube, media take-up does not go straight. Fasten the media tight to the paper tube again.

Is the media loaded correctly?

Remove the media, then redo media loading from the beginning.

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.

[LIFT DANCER ROLLER TO REAR]

The dancer roller was not lift to the rear after making the settings for the take-up unit.

When this message appears, lift the dancer roller to the rear. Pressing **ENTER** proceed to the next step.

☞ P. 28, "4. Operation" (Procedure 3.- ②)

When you tried to cut the media by pressing **SHEET CUT**, the dancer roller was not lifted to the rear or not laid forward.

After lifting the dancer roller to rear, press **ENTER**. The media is cut off. If you press **◀** before pressing **ENTER**, cutting of media is cancelled.

When the trailing edge of the media was detected during an operation, the dancer roller was not lifted to the rear or not laid forward.

When this message is displayed, lift the dancer roller to the rear. The message disappears at the same time. If the message [END OF THE SHEET] is displayed around that time, press any button to recover from the condition. Set new media.

An Error Message Appears.

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

[TU SET UP ERROR SET AGAIN]

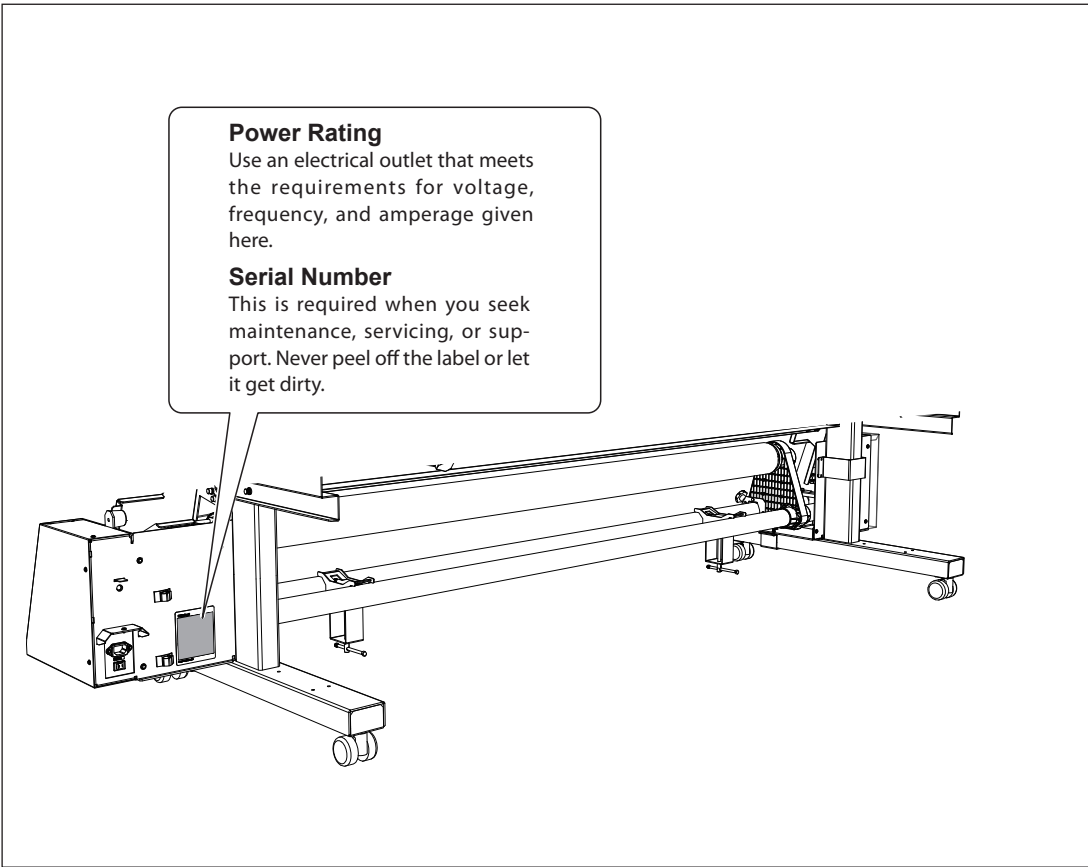
- The auto switch of the take-up unit was not configured.
- As the media was not properly fasten to the paper tube, the dancer roller could not be located at the appropriate position.
- During a set-up, the printer connector cable got disconnected from the printer connector.

When this message appears, the buzzer sounds twice and the setup is canceled. Press any key to clear the error. Redo the operation from the step of setup.

☞ P. 28, "4. Operation" (Procedure 3.- ①)

6. Appendix

Locations of the Power Rating and Serial Number Labels



Specifications

		TUC-3
Rail and Accessories		TU3-64
Acceptable media widths		Less than 1,625 mm (64 in.)
Acceptable media weights		Maximum 50 kg (110 lb.)(*)
Weight (Total including control box, rail, and accessories)		33 kg (73 lb.)
Power requirements	Machine	AC100V to AC240V $\pm 10\%$, 0.65A, 50/60Hz
Power consumption		Approx. 60W
Acoustic noise level		64 dB (A) or less
Environmental		Temperature: 5 to 40°C (41 to 104°F) Humidity: 20 to 80%RH (non-condensing)

(*)

NOTE: The actual usable media weight may depend on the printer's conditions for usable media.

