

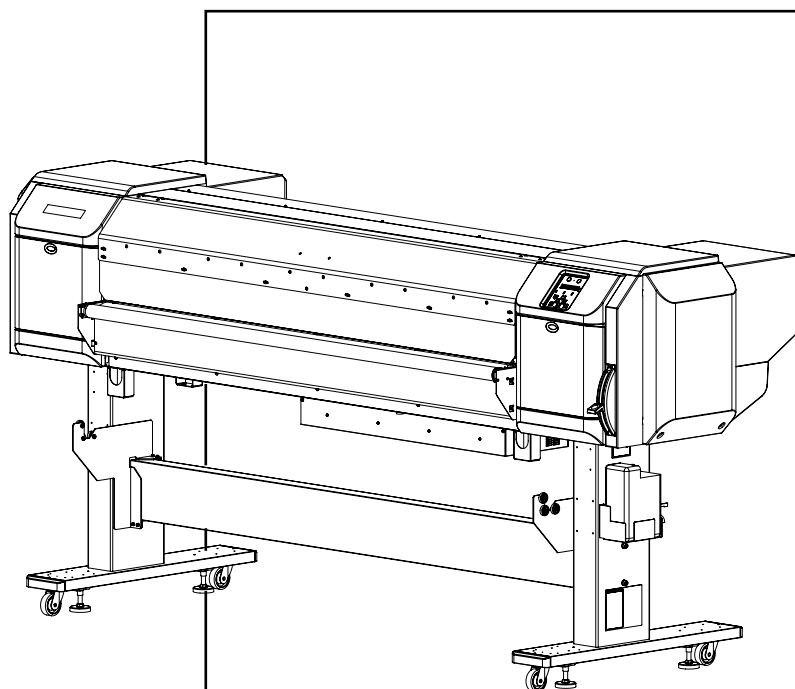
MUTOH

OPERATION MANUAL

Full-Color Inkjet Printer

ValueJet

VJ-1628TD VJ-2628TD



Read This Manual Before Using The
Printer.

Rev.

VJTXE-A-02

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The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives.

By affixing the CE marking, the manufacturer, his authorized representative, or the person placing the product on the market or putting it into service ensures that the item meets all the essential requirements of all applicable EU directives and that the applicable conformity assessment procedures have been applied.

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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.

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2. The warranty shall not apply to any direct or indirect loss, or compensation for the loss due to the product that has been subject to misuse, neglect, or improper alternation.

About this Manual

1. Contents of the Manual

There are three manuals for this product.

Installation manual

Explains operating procedures along with unpacking, installation and preparation before use.

Operation Manual (this manual)

2. Purpose and Target Readers

This manual explains preparations before use and operation procedures for MUTOH Full Color Ink Jet Printer VJ-1628TD, VJ-2628TD.

This manual is prepared for the owners and operators of this printer.

Before using this printer, fully understand the contents and directions in this manual.

3. Manual Configuration








Section	Description
1 Safety instructions	This chapter explains the installation of this printer, warning terms that operators need to know, caution items and warning labels on the printer main unit.
2 Product overview	This chapter explains the features of the printer along with the names and functions of each part.
3 Before using	This chapter explains necessary steps before using the printer.
4 Handling the printer	This chapter explains how to handle the printer.
5 Panel setup menu	The section explains the Setup menu of the printer.
6 Maintenance	This chapter describes daily maintenance of the product.
7 Troubleshooting	This chapter describes possible troubles during the use of this product and countermeasures.
8 Appendix	This chapter describes specifications and included components with this printer.

NOTE

- "1 Safety instructions" to "4 Handling the printer" must be read before using the printer.
- Read "5 Panel setup menu" through "8 Appendix" as necessary.

4. Manual Notation

This section explains general cautions that must be followed in order to use this printer safely.

Warning	Meaning
 WARNING	Used for dangerous situations where death or serious injury may be caused.
 CAUTION	Used for dangerous situations that may cause slight or medium injury, or when all or parts of products are damaged.
 NOTE	It is used for special cautions and for information that needs to be emphasized.
 TIP	Indicates useful tips for operating or understanding the printer.
	Indicates "prohibited" operations.
	Indicates required operations.
	Indicates reference pages in this manual.

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1 Safety instructions

This chapter explains the installation of this printer, warning terms that operators need to know, caution items and warning labels on the printer main unit.





- **When installing and operating this printer, be sure to follow the directions and warnings in this book.**
-

1.1 Types and meanings of warnings

The warnings in the Operation Manual and the warning labels attached to the printer are categorized into three stages.















Understand the meanings of the following warning terms and follow the contents (instructions) in this manual.

Warning	Meaning
 WARNING	Used for dangerous situations where death or serious injury may be caused.
 CAUTION	Used for dangerous situations that may cause slight or medium injury, or when all or parts of products are damaged.
NOTE	Used for special cautions and for information that needs to be emphasized.

1.2 Important safety instructions

This section explains general cautions that must be followed in order to use this printer safely.

WARNING

-  Do not install this printer in the following places.
It may cause an injury if the printer falls down.
 - On a shaky stand
 - Slanting location
 - Places where vibration of other machines etc. is transmitted
-  Do not step on this printer or place heavy things on top of it.
It may cause an injury if the printer falls down.
-  Do not block the vent by covering the printer with cloths, such as a blanket or tablecloth.
If the vent is blocked, heat may accumulate inside the printer and it may cause fire.
-  Do not install the printer where it is humid or dusty.
It could lead to an electric shock and fire.
-  Do not use a damaged power cable.
It could lead to an electric shock and fire.
-  Do not pull out or insert the power plug with a wet hand.
This could lead to an electric shock.
-  Do not connect an earth wire to the following places.
 - Gas pipes
There is a possibility of ignition and explosion.
 - Earth wire of telephone cables and lightning rods
Heavy current might flow whenever lightning strikes.
 - Water pipe and faucet
The earth might not work if a plastic pipe is connected in the middle of the metal pipe.
-  Do not insert or drop metal or flammable objects into the printer through openings such as a vent.
It could lead to an electric shock or fire.
-  If foreign substances or liquids such as water entered the printer, do not use the printer as it is.
It could lead to an electric shock or fire.
Immediately turn OFF the power switch, disconnect the power plug from the electric socket, and contact your local MUTOH dealer.
-  Wire the various cords as directed in the Operation Manual.
Mistaken wiring could cause fire.
-  Be sure to use the specified power cable (separately sold).
Using power cables other than the specified can cause an electric shock or fire.
-  Make sure to use only the specified power supply (AC 100 V to 120 V or AC 220 V to 240 V).
If a power supply other than the specified voltage is used, it could cause an electric shock and fire.
-  Take power for the printer directly from the power socket (AC 100 V - 120 V or AC 220 V - 240 V).
Do not use multiple plugs on the same socket.
This could generate heat and might cause fire.
-  Be sure to use a dedicated power socket with earth wire for the power supply, and connect it to the earth wire.
If the earth wire is not connected, an electric shock or fire may occur.

 **CAUTION**

Pay attention to the following points when handling power cable.

- Do not tamper with the power cable.
- Do not put heavy objects on the power cable.
- Do not bend, twist or pull the power cable by force.
- Do not route the power cable near heating appliances.



Pay attention to the following points when handling the power supply plug.

Any mishandling of the power cable could cause a fire.

- Make sure that no foreign substances such as dust etc. are stuck to the power plug.
- Make sure that the power plug is firmly inserted to the edge of the power socket.



When handling ink cartridges, pay attention so that ink does not get into your eyes or stick to your skin.

If ink gets into your eyes or sticks to your skin, immediately wash it off with water.

Failing to do so might cause irritation or light inflammation of eyes.

In case of any abnormality, consult a physician immediately.



Do not disassemble ink cartridges.

If disassembled, there is a possibility that ink might come into contact with eyes or skin.



Do not operate the media loading lever during initial operation.

The print head portion may touch the pressurizing roller portion, and cause a malfunction.



Do not use volatile solvents such as thinner, benzene, or alcohol.

These solvents could cause damage to the paint.



Be careful that no moisture enters the printer.

There is a possibility that the electric circuit inside the printer is short circuited.



Do not open covers attached using screws under any circumstances.

This may cause an electric shock or a malfunction.



Do not drop waste fluid when replacing the flushing-box sponges.

If waste fluid comes into contact with the grid roller, the surface of the grid roller will be damaged, and the media feed function may be affected.



When cleaning the cleaning wiper

- Do not touch the cleaning wiper and head cap unit.

Head cleaning may not be performed correctly because of oil from your hands.



Do not slant the printer, prop it against a wall or turn it upside down.

There is a possibility that ink inside the printer may leak.

Moreover, normal operation after shifting (to these positions) cannot be guaranteed.



When you do not use the printer for a long period, make sure to pull out the power plug from the power socket for safety.



Make sure to connect an earth wire to the earth connection that meets the following standards.

- Earth terminal of power socket
- Earth wire with copper plate which is buried at 650 mm or more, deep in the ground.



Pay attention to the following points when you cut roll media.

Mishandling the razor blade may cause a cut on your finger or hand.

- When you hold media, do not place your finger on the media cut groove.
- Move the razor blade along the media cut groove.



When cleaning the printer, be sure to turn OFF the power and disconnect the power plug.



Move the printer maintaining a horizontal position.

1.3 Warning labels

This section explains the handling of warning label, pasting location and types. Warning labels are attached to parts of the printer that need special caution. Understand the locations and the descriptions of the danger associated with each label before operating the printer.

1.3.1 Handling the warning labels

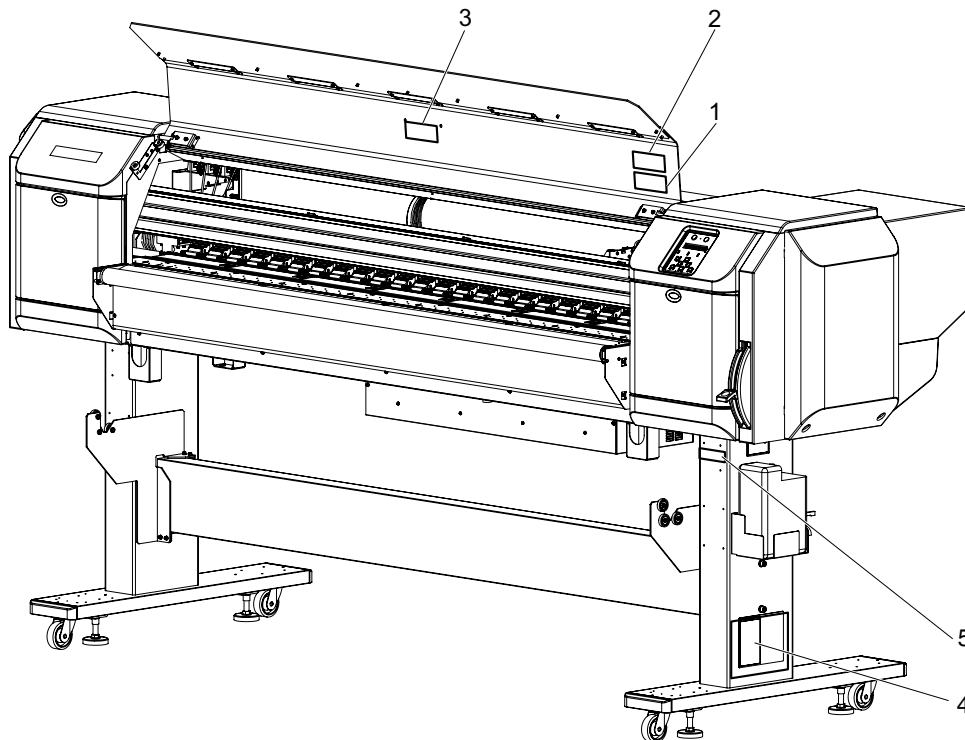
When handling the warning labels, be careful about the following points.

NOTE

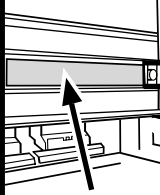
- Check whether all the warning labels can be read.
If the letters or illustrations on the label are not clear, remove the dirt from the label.
 - Use cloth, water and mild detergent for removing dirt from the warning label.
Avoid either organic solvents or gasoline.
 - It is necessary to replace the labels if they are damaged, lost or illegible.
If the warning labels have to be replaced, contact your local MUTOH dealer.
-

1.3.2 Location and type of warning labels

Pasting locations of the warning labels are shown in the following figure.



No.	Types of warning labels
1	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <div style="background-color: yellow; border: 1px solid black; padding: 5px; text-align: center;"> CAUTION </div> <p>◆ Do not open the front cover while printing. Moreover, Do not touch the media while printing. Good printing result might not be obtained.</p> <p>※ Please remove the media and hold the lever up when not using for a long time. Due to the environment conditions, media float and wrinkle might happen that does not obtain the good result.</p> </div>

No.	Types of warning labels
2	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>⚠ CAUTION</p> <ul style="list-style-type: none"> ◆ Do not give a direct wind from a fan or air conditioner to the machine. ※ A wind may dry the ink in the head nozzles causing clogging that affects ink jetting, and you will not be able to obtain satisfactory printing results. </div>
3	<div style="border: 1px solid black; padding: 10px;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <p style="text-align: center;">⚠ CAUTION</p>  <p style="text-align: center;">Steel belt</p> </div> <div> <ul style="list-style-type: none"> ◆ Sharp Edges Do not touch steel belt. ※ You may be injured. </div> </div> </div>
4	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 10px; width: 45%;"> <p style="text-align: center;">⚠ CAUTION</p> <ul style="list-style-type: none"> ● Before using this product, please be sure to read the Material Safety Data Sheet (MSDS). ● The workplace should be free from open flame and well ventilated. ● Please handle the ink with care to avoid the ink touch to your skin, eyes and clothing, also to avoid accidental ingestion. Be careful not to inhale the steam. ● Please wear a protective mask, eyewear, gloves, long sleeves and long trousers to avoid contact with the ink during the operation. ● Work clothes that soiled with the ink should be thoroughly cleaned. ● Please wash your hands and gargle well after using. ● Do not bring food near. ● Please store out of reach of children. ● Do not use for anything other than VJ. </div> <div style="width: 50%;"> <p>Emergency Measures</p> <ul style="list-style-type: none"> ● If it sticks to your skin, wash well with plenty of soapy water. Consult your doctor if your skin feels irritated or is discolored. ● If it gets in your eyes, wash well with plenty of tap water and see your doctor as soon as possible. ● If accidentally swallowed, do not vomit. Consult your doctor as soon as possible. ● If you inhaled the steam, move to clean air and consult your doctor if you feel giddy or nauseous. ● If breathing has stopped, apply artificial respiration immediately, and get an emergency medication. ● If spilled from the container, remove heat sources, sparks and flame first, then wipe up with cloth. Used cloths containing ink should be soaked in water until disposal. </div> </div>
5	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>⚠ CAUTION</p> <ul style="list-style-type: none"> ◆ Do not bend or pull the waste ink drain tube. The ink may be leaked and damages the printer. </div>

2 Product overview

This chapter explains the features of this printer along with the names and functions of each part.

2.1 Features

This section explains the main features of the printer.

(1) Supporting fabric media

Using of grooved platen will prevent the ink from adhering to the printer body by penetrating through the fabric.

Attaching plate to the grooved platen enables printing to media with no print through.

Also, tension roller at the roll media holder enables providing wrinkle-free printing to any flexible media.

(2) Wide variety of compatible media

The head is adjustable to three levels of height and compatible with paper media between 0.08 mm and 0.3 mm in thickness (This does not apply to fabric media).

(3) Flexible selection of inks

You can select from two types of ink sets with different ink characteristics on a single printer.

Also, you can select four to eight colors of inks to be set to ink cartridge slots.

(4) Effective use of media

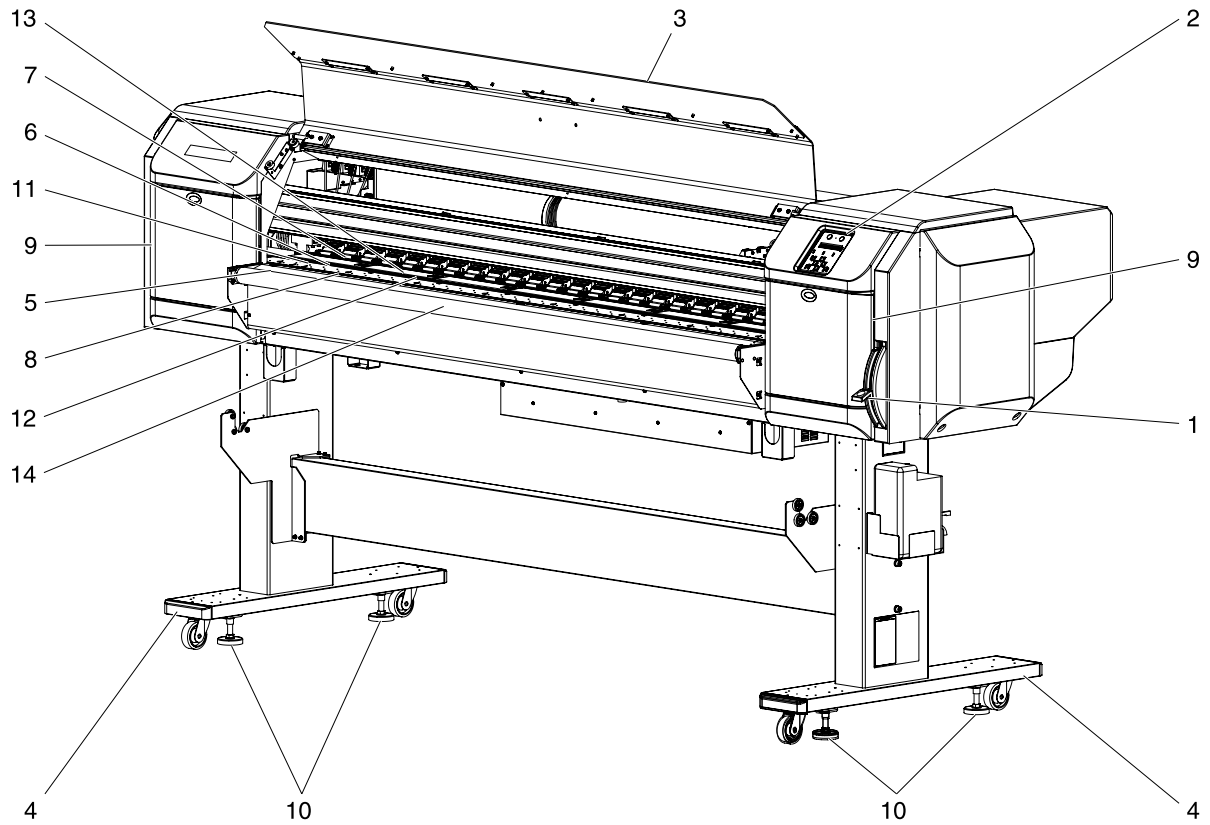
A JOG feature is provided to allow setting of the print starting position as required.


Printing can be performed on media that has already been printed on. This allows effective use of left margins.

2.2 Names of parts and functions

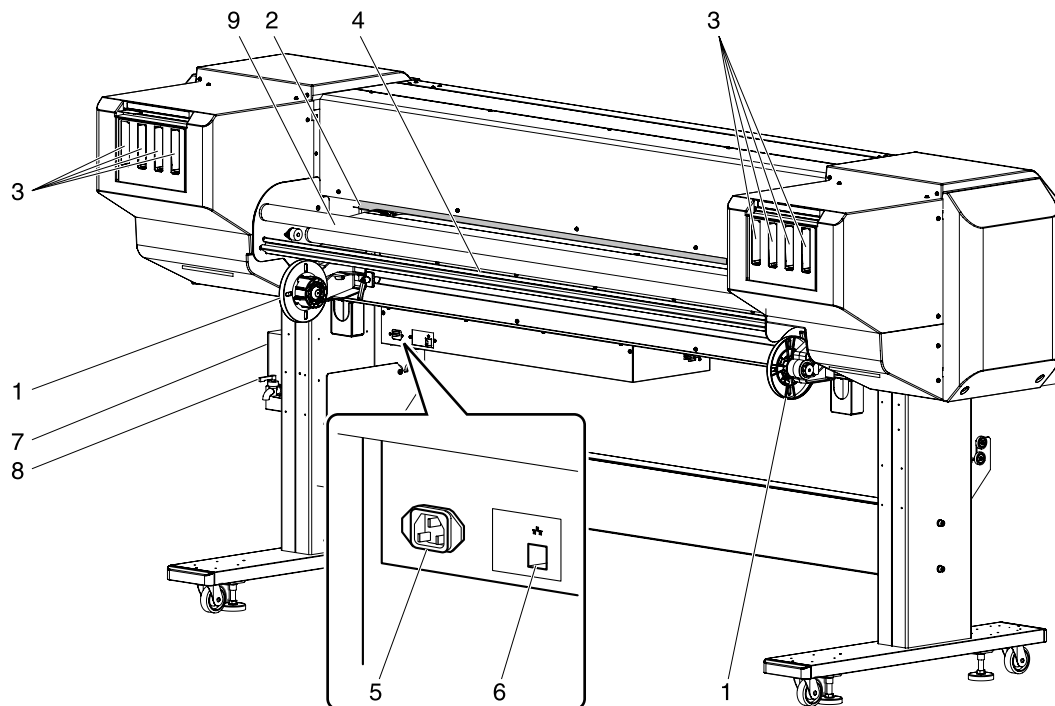
This section explains the names and functions of each part.

2.2.1 Front section



No.	Name	Function
1	Media loading lever	Used for fixing or releasing media. <ul style="list-style-type: none"> • Lower the lever to fix the media. The lever is normally set at this position when in use. • Lower the lever more to fix the media firmly. Use this when media is not fed smoothly with the lever set at the normal position, or to improve feeding accuracy of heavy media. • Raise the lever to release the media.
2	Operation panel	Operation condition setting, printer display and various function settings are performed.  2.2.3 Operation panel
3	Front cover	Used for preventing a user from coming in contact with the driving mechanism during the printer operation. Opened and closed when media is set or jammed. It is normally closed.
4	Stand	Used when installing the printer on a flat floor.
5	Media guide	Used for feeding media smoothly when the media is set or printed.
6	Platen	Installed inside of the front cover.
7	Pressurizing rollers	Installed inside of the front cover. Press and hold the media when printing.
8	Media cut groove	Installed inside of the front cover. Used to cut media straight.
9	Maintenance cover	Used to prevent the user from touching the inner mechanical section. Open and close in the following cases. <ul style="list-style-type: none"> • When cleaning the cleaning wiper It is normally closed.
10	Adjuster	Used to install the printer horizontally.
11	Media holder plate	Installed inside of the front cover. By attaching media holder plates to both sides of the media, it is possible to prevent warpage.
12	Ink gutter	Grooves used for collecting ink penetrating through the fabric (when printing on fabric media). This part must be cleaned periodically to prevent ink from adhering.
13	Ink gutter cover	Plate covering the ink gutter. This part must be attached when printing to any fabric media or paper media with no print through.
14	Front roller	Used for lifting up the fabric media from the platen surface when printing dark image on the media.

2.2.2 Rear section



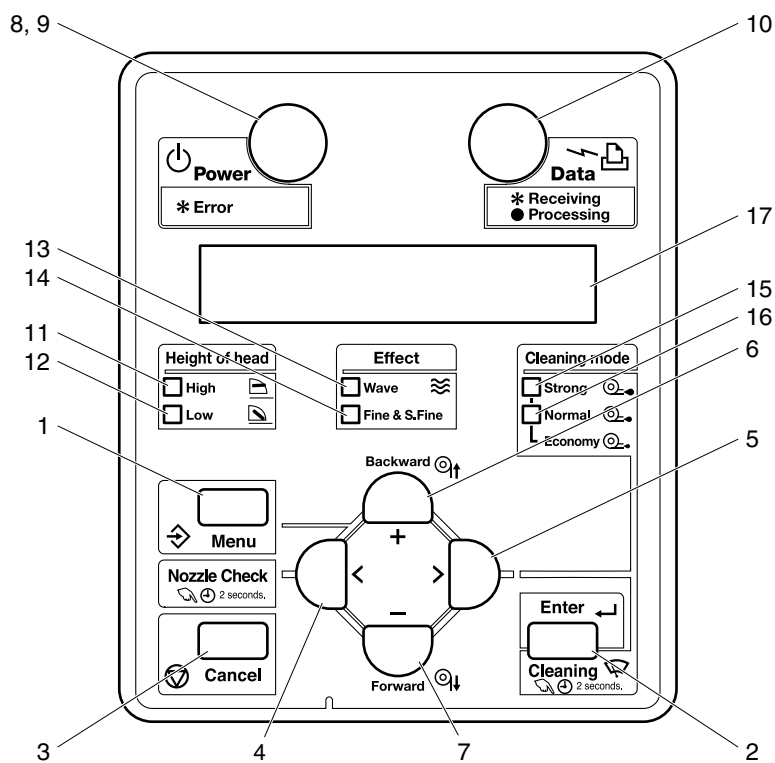
No.	Name	Function
1	Roll media holder	Used to set the roll media here. Include flanges where roll media is attached, and the levers that fix the roll media holders.
2	Media feed slot	Used for feeding media.
3	Ink cartridge slot	Insert the ink cartridge.
4	Media guide	Used for feeding media smoothly when the media is set or printed.
5	AC inlet	Used for connecting the power cable.
6	Network interface cable connector	Connects a network interface cable.
7	Waste fluid tank	Used for collecting waste ink discharged from the printer.
8	Waste fluid valve	Open and close when discharging the waste fluid from the waste fluid tank. It is normally closed.
9	Tension roller	Used when printing to any flexible fabric media. It prevents the appearance of wrinkles slacks on these media.

2.2.3 Operation panel

Used for setting operation conditions, display of printer status and various functions. Names of each operation key and status display along with the functions are explained.

TIP

- Refer to the following for details regarding the operation method of the operation panel.
 - When performing menu setting from the operation panel: [▶ 4.3 Menu setups on the operation panel](#)
 - When performing various operations in the operation panel: [▶ 4.4 Operating from the operation panel](#)



(1) Operation keys**NOTE**

- The operation keys are assigned with different functions and names depending on printer status (Normal or Setup menu display).

For details about printer status, refer to "2.3 Printer status".

No.	Name	Normal	Setup menu display
1	[Menu] key	Shifts to the Setup menu.	Shifts from Setup menu display to Normal.
2	[Enter] key	Restarts printing when the printing is suspended.	<ul style="list-style-type: none"> Select the menu to be set, and shifts to the next hierarchy. The setting is determined and saved.
	[Cleaning] key	Press and hold this key for two seconds or more to clean the print head.	—
3	[Cancel] key	<ul style="list-style-type: none"> When printing: Forcefully terminates printing and deletes one file of the remaining data. When receiving or analyzing data: Deletes data that are already received and analyzed, and delete the next data. 	<ul style="list-style-type: none"> Returns to the previous menu hierarchy. Changes made in the setting are discarded. Shifts from Setup menu display to Normal.
4	[<] key	—	The following menu changes the set value. <ul style="list-style-type: none"> Origin menu
	[Nozzle Check] key	Press and hold this key for two seconds or more to perform Nozzle Check printing.	—
5	[>] key	Sets Cleaning Mode. <ul style="list-style-type: none"> The lamp of Cleaning Mode that you set lights up in green. 	Down the menu level in the directory tree.
6	[Backward↑] key	Media is fed in the reverse direction.	—
	[+] key	—	<ul style="list-style-type: none"> Changes to the previous item in the displayed menu. The setting is changed to the forward direction. The numeric value is increased during numerical input.
7	[Forward↓] key	Media is fed in the forward direction.	—
	[-] key	Suspend the print during printing.	<ul style="list-style-type: none"> Changes to the previous item in the displayed setting. The setting is changed to the reverse direction. The numeric value is decreased during numerical input.
8	[Power] key	Turns the printer ON and OFF.	Turns the printer ON and OFF.

(2) Display section

No.	Name	Color	Status	Description
9	Power lamp	Green	Lamp ON	Power ON.
			Lamp blinks	An error has occurred. Error content is displayed on the LCD.
			Lamp OFF	Power OFF.
10	Data lamp	Orange	Lamp ON	<ul style="list-style-type: none"> Analyzing received data. Under printing.
			Lamp blinks	Receiving data.
			Lamp OFF	Data is not received and analyzed.
11	High lamp	Green	Lamp ON	The head height is set to High. When the Low lamp is also turned on, the head height is set to Mid.
			Lamp OFF	The head height is set to Low.
12	Low lamp	Green	Lamp ON	The head height is set to Low. When the High lamp is also turned on, the head height is set to Mid.
			Lamp OFF	The head height is set to High.
13	Wave lamp	Green	Lamp ON	<ul style="list-style-type: none"> The Effect menu is set to Wave or Fuzz. When the Fine &S.Fine lamp is also turned on, the menu is set to either "Fine &Wave", "A-S. Fine &Wave", "B-S. Fine &Wave", "Wow1•2", or "Fine &Fuzz1•2".
			Lamp OFF	The Effect menu is set to None.
14	Fine &S.Fine lamp	Green	Lamp ON	<ul style="list-style-type: none"> The Effect menu is set to Fine or Super Fine. When the Wave lamp is also turned on, the menu is set to either "Fine &Wave", "A-S. Fine &Wave", "B-S. Fine &Wave", "Wow1•2", or "Fine &Fuzz1•2".
			Lamp OFF	<ul style="list-style-type: none"> The Effect menu is set to Wave or Fuzz. When the Wave lamp is turned OFF, the Effect menu is set to None.
15	Strong lamp	Green	Lamp ON	<ul style="list-style-type: none"> Cleaning Mode is set to Strong. When the Normal lamp is also turned on, Cleaning Mode is set to Economy.
			Lamp OFF	Cleaning Mode is set to Normal.
16	Normal lamp	Green	Lamp ON	<ul style="list-style-type: none"> Cleaning Mode is set to Normal. When the Strong lamp is also turned on, Cleaning Mode is set to Economy.
			Lamp OFF	Cleaning Mode is set to Strong.
17	LCD display section	—	—	Displays operation status of the printer or an error message.

TIP

- When an error requiring a restart (fatal malfunction for the printer operation) occurs, all lamps blink with an alarm.

☞ 7.2.5 Error requiring restart

If the error persists even when the malfunction is fixed, contact your local MUTOH dealer.

2.3 Printer status

This section explains printer status.

2.3.1 Normal

Printing is possible when media is loaded.

The various functions for printing can be performed on the operation panel.

2.3.2 Setup menu display

Various settings regarding printing can be made from the operation panel.

The various functions for printing can be performed on the operation panel.

Display contents in the LCD monitor of the operation panel are as follows.

2.3.3 Changing printer status

Follow the procedure below and change printer status.

(1) Normal → Setup menu display

Press the [Menu] key on the operation panel when the printer is Normal.

- "Menu 1: Setup>" is displayed on the operation panel and the display shifts to the Setup menu.

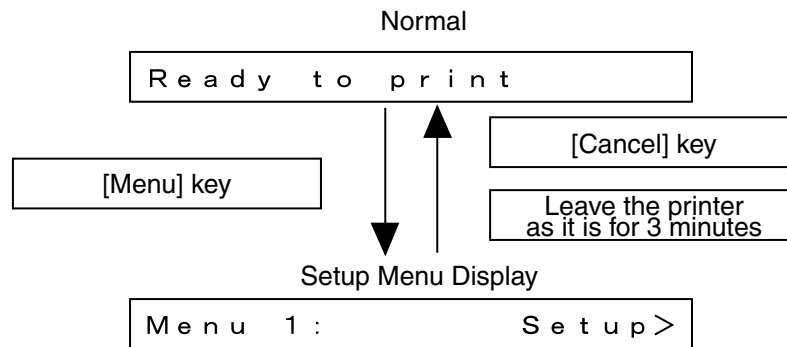
NOTE

- For details regarding the Setup menu, refer to "4.3 Menu setups on the operation panel".
-

(2) Setup menu display → Normal

When the printer is at the Setup menu display, perform either of the following operations to shift the operation panel to the Normal display.

- Press the [Cancel] key on the operation panel.
- In the Setup menu, leave the keys untouched for three minutes.



NOTE

- When the CR Maintenance menu is displayed, even leaving the keys untouched for three minutes does not return to the printer to normal status.
☞ 5.1.18 CR Maintenance menu
- For details on Status message, refer to "7.2.1 Status messages".

3 Before using

This chapter explains necessary steps before using the printer.

3.1 Power cable connection

This section explains power cable connection.

WARNING

- **Be sure to use the specified power cable (separately sold).**
Using power cables other than the specified can cause an electric shock or fire.
- **Do not use a damaged power cable.**
It could lead to an electric shock and fire.

CAUTION

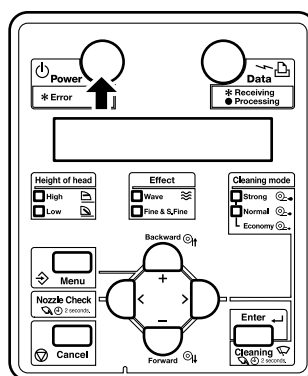
- **Pay attention to the following points when handling power cable.**
 - **Do not tamper with the power cable.**
 - **Do not put heavy objects on the power cable.**
 - **Do not bend, twist or pull the power cable by force.**
 - **Do not route the power cable near heating appliances.**

NOTE

- Contact your local MUTOH dealer if the power cable is damaged.

Follow the procedure below to install the power cable.

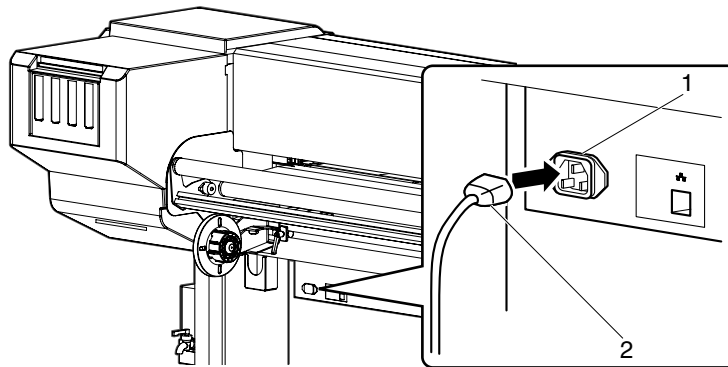
1. Make sure that the printer is turned OFF.



NOTE

- The power is ON when the [Power] key of the operation panel is pressed in.
Press the key once again to turn OFF the power.

2. Connect the power cable to the AC inlet on the back of the printer.



No.	Name
1	AC inlet
2	Power cable

3. Insert the power cable plug firmly in the socket.

⚠ WARNING

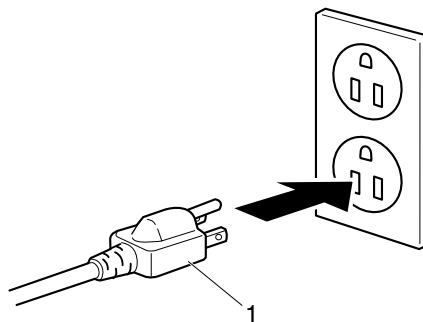
- **Do not pull out or insert the power plug with a wet hand.**
This could lead to an electric shock.
- **Make sure to use only the specified power supply (AC 100 V to 120 V or AC 220 V to 240 V).**
If a power supply other than the specified voltage is used, it could cause an electric shock and fire.
- **Take power for the printer directly from the power socket (AC 100 V - 120 V or AC 220 V - 240 V).**
Do not use multiple plugs on the same socket.
This could generate heat and might cause fire.
- **Be sure to use a dedicated power socket with earth wire for the power supply, and connect it to the earth wire.**
If the earth wire is not connected, an electric shock or fire may occur.
- **Do not connect an earth wire to the following places.**
 - **Gas pipes**
There is a possibility of ignition and explosion.
 - **Earth wire of telephone cables and lightning rods**
Heavy current might flow whenever lightning strikes.
 - **Water pipe and faucet**
The earth might not work if a plastic pipe is connected in the middle of the metal pipe.

CAUTION

- Pay attention to the following points when handling the power supply plug. Any mishandling of the power cable could cause a fire.
- Make sure that no foreign substances such as dust etc. are stuck to the power plug.
- Make sure that the power plug is firmly inserted to the edge of the power socket.
- When you do not use the printer for a long period, make sure to pull out the power plug from the power socket for safety.
- Make sure to connect an earth wire to the earth connection that meets the following standards.
 - Earth terminal of power socket
 - Earth wire with copper plate which is buried at 650 mm or more, deep in the ground.

NOTE

- Contact the retail outlet of purchase if the earth connection cannot be established, or if the earth connection is not given.
- When the power supply of the printer is ON, do not pull out the power cable from the power socket.
Whenever the plug is pulled out from the power socket, allow one minute or more before inserting the plug in the power socket again.



No.	Name
1	Power plug

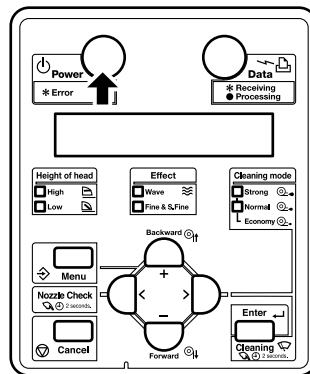
3.2 Turning the power ON/OFF

This section explains how to turn the printer ON/OFF.

3.2.1 Turning the power ON

Follow the procedure below to turn the power ON.

1. Press the [Power] key on the operation panel to turn ON the printer.
 - The Power lamp on the operation panel lights up in green.



- The printer starts initial operation.
- When the initial operation is complete, the printer enters Normal.

NOTE

- If there is a problem during the initial operation, a message is displayed on the operation panel and the printer may stop operating.
If operation stops, refer to "7 Troubleshooting" and deal with the problem.

3.2.2 Turning the power OFF

Follow the procedure below to turn the printer OFF.

1. Verify the following regarding the operational condition of the product.
 - Printing or other operations are not in progress.
 - The operation panel display is Normal.
 - The Low lamp on the operation panel lights up in green.
 - The High lamp on the operation panel is turned off.

NOTE

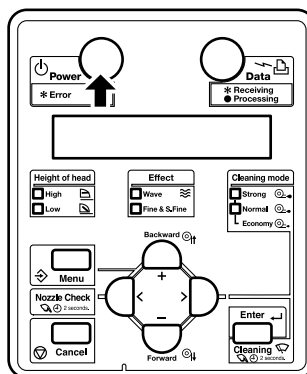
- If the High lamp on the operation panel lights up in green, the head height is set to High or Mid. Return the head height to Low before turning the power OFF.
 4.2.5.2 When setting the head height to Mid

2. Press the [Power] key on the operation panel to turn OFF the printer.

NOTE

- If the operation panel is in the following status, the power is ON.
 - The [Power] key is pressed in.
 - The Power lamp lights up in green.

Press the key once again to turn OFF the power.



- The printer starts the procedure to turn the power OFF.
- "Power Off" is displayed on the operation panel.

NOTE

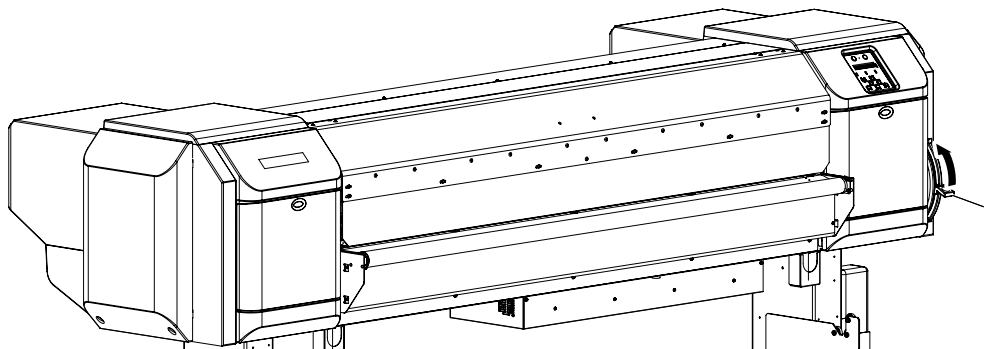
- If the head height is set to High or Mid, "Set Height to Low" is displayed on the operation panel, and the printer stops the procedure to turn the power OFF.
To restart the procedure, return the head height to Low.
☞ 4.2.5.2 When setting the head height to Mid

- All the lamps on the operation panel and the LCD monitor are turned OFF.
- The printer automatically turns the power OFF.

NOTE

- If there is a problem during turning OFF operation, a message is displayed on the operation panel and the printer may stop operating.
If operation stops, refer to "7 Troubleshooting" and deal with the problem.
- After turning OFF the printer, wait for ten seconds or longer to turn it ON again.

3. Raise the media loading lever when the product is not used for a long time.



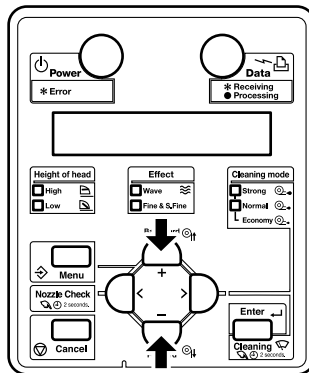
No.	Name
1	Media loading lever

3.3 Changing temperature display

This section describes how to change the temperature display on the operation panel. In this printer, you can select from Celsius [C°] or Fahrenheit [F°].

Follow the procedures below.

1. From the Setup menu display, display the "Temperature" menu.
↳ 4.3.1 Menu setup procedure
2. Press the [+] key or [-] key on the operation panel to select the setting, and press the [Enter] key.
↳ 5.1.25 Temperature menu



- Setting of the temperature display is complete.

3.4 Installing ink cartridges

This section describes the replacement time and steps of ink cartridges.

CAUTION

- **When handling ink cartridges, pay attention so that ink does not get into your eyes or stick to your skin.**
If ink gets into your eyes or sticks to your skin, immediately wash it off with water. Failing to do so might cause irritation or light inflammation of eyes. In case of any abnormality, consult a physician immediately.
- **Do not disassemble ink cartridges.**
If disassembled, there is a possibility that ink might come into contact with eyes or skin.
- **Do not perform the following operations during ink filling.**
 - **Do not turn OFF the printer.**
 - **Do not unplug the power cable.**
 - **Do not open the front cover.**
 - **Do not raise the media loading lever.**

The following ink setting modes can be used for this printer.

- Eight color ink mode
- Six color ink mode
- Different types of inks four color mode (4Color Single: setting ink cartridges of two different types, each having different ink characteristic)
- Same types of inks four color mode (4Color Double)

Refer to the following table for the ink cartridge alignment.

- "-A" and "-B" in the following table indicate the difference of ink types according to their ink characteristics.

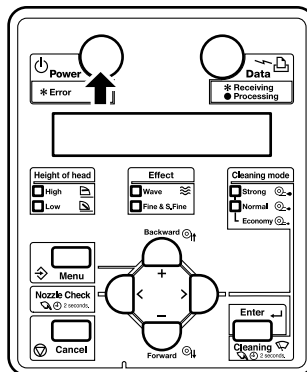
Slot No.	Eight color ink	Six color ink	Different types of four ink colors	Same types of four ink colors
1	K (Black)	K (Black)	K-A (Black A)	K-A (Black A)
2	C (Cyan)	C (Cyan)	C-A (Cyan A)	C-A (Cyan A)
3	M (Magenta)	M (Magenta)	M-A (Magenta A)	M-A (Magenta A)
4	Y (Yellow)	Y (Yellow)	Y-A (Yellow A)	Y-A (Yellow A)
5	SP1 (Special color 1)	SP1 (Special color 1)	K-B (Black B)	K-A (Black A)
6	SP2 (Special color 2)	SP2 (Special color 2)	C-B (Cyan B)	C-A (Cyan A)
7	SP3 (Special color 3)	Cleaning cartridge	M-B (Magenta B)	M-A (Magenta A)
8	SP4 (Special color 4)	Cleaning cartridge	Y-B (Yellow B)	Y-A (Yellow A)

NOTE

- This printer is designed to use genuine ink.
 - If you use inks other than MUTOH genuine ones, the print quality cannot be guaranteed.
 - Any problems caused by using the inks other than those recommended will not be covered by the warranty, and repair expenses will be paid by the customer.
- For types and details of the ink, contact your local MUTOH dealer.
- Do not give ink cartridges strong shakes.
Doing so may cause ink leakage.
- Do not disassemble ink cartridges.
A disassembled ink cartridge cannot be used.
- Be sure to use the dedicated cleaning fluid.
- Before installing the ink cartridge, shake it gently.
Doing so will preserve print quality.
- When an ink cartridge is moved from a cold place to warm place, keep the ink cartridge for three hours or more in the new printing environment before printing.

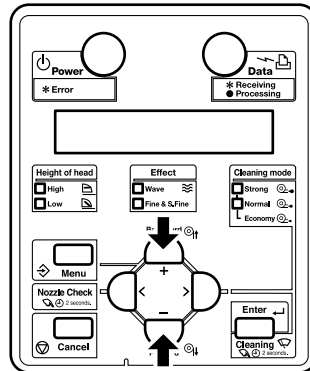
Follow the procedure below to install the ink cartridge.

1. Turn the printer ON.



- The printer starts the initializing operation.
- After initializing operation, "Select Ink Set: *" (refer to the table in step 2 for the character * represents) is displayed on the operation panel.

- Press the [+] key or [-] key on the operation panel to select an ink set that matches the ink setting mode to be used.



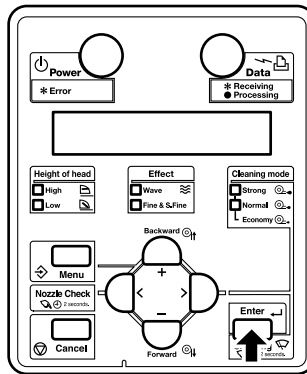
Refer to the following table for each type of the ink set.

Setup item	Setting	Description
InkSet	8color	Eight colors (C, M, Y, K, Special color 1, Special color 2, Special color 3, Special color 4)
	6color	Six colors (C, M, Y, K, Special color 1, Special color 2)
	4Color Single	Different types of ink, four colors (C-A, M-A, Y-A, K-A, or C-B, M-B, Y-B, K-B) *For -A and -B, refer to the labels on the ink cartridge slots or c of the step 13 of this procedure. Insert two types of ink sets that have different characteristics, each having four colors of ink. When selecting Head 1, print out with the first type of ink (C-A, M-A, Y-A, K-A), and when selecting Head 2, print out with the second type of ink (C-B, M-B, Y-B, K-B).
	4Color Double	Same type of ink, four colors (C-A, M-A, Y-A, K-A) Set four color inks of same type (2 sets: 8 pieces), and perform printing. "Larger" and "Largest" become selectable in the DropSize menu. 5.1.1.1.4 DropSize menu

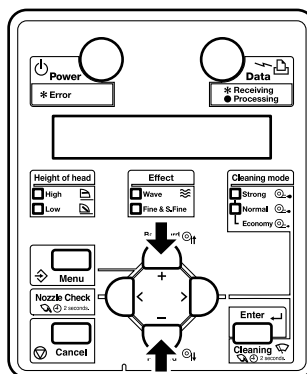
NOTE

- 4colorHead1 and 4colorHead2 settings are for inserting two types of ink sets that have different characteristic into the printer simultaneously and switching them as needed when printing. For details about switching the ink sets, refer to 4.4.6 Changing inks when using different types of inks".
- If "4Color Double" is set, "Larger" and "Largest" become selectable in the DropSize menu. Set "Larger" or "Largest" when you want to print through the thick fabric media.

3. Press the [Enter] key on the operation panel.



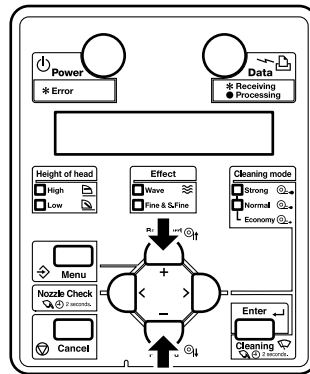
- When selecting 8Color, 6Color, or 4Color Double, proceed to the step 5.
"InkType : *" (For *, refer to the chart in the step 5) is displayed on the operation panel.
 - When selecting 4Color Single, proceed to the step 4.
"InkType : *" (* indicates Head 1 or Head 2) is displayed on the operation panel.
4. Use the [+] key or [-] key on the operation panel to select Print head to use between "Head 1" and "Head 2".



Print Head to Use	Corresponding Ink Cartridge Slot
Head 1	C-A, M-A, Y-A, K-A
Head 2	C-B, M-B, Y-B, K-B

- "InkType : *" (Refer to the chart in the step 5 for *) is displayed on the operation panel.

5. Use the [+] key or [-] key on the operation panel to select the ink type.

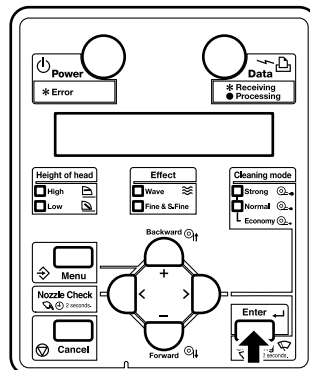



Ink types are as follows.

Ink Type	Display Name
Dye Transfer Sublimation Ink	VJ-DTSINK*
Direct Print Sublimation Ink	VJ-DPSINK*
Water Pigment Ink	RJ-FGINK

* Use this setting when using genuine ink.

6. Press the [Enter] key on the operation panel.

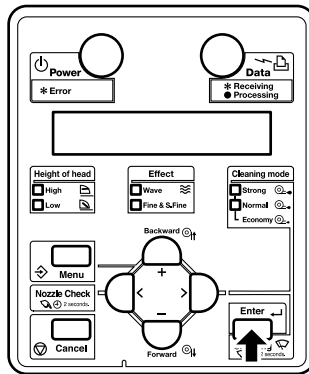


- If the head height is set to High or Mid, "Set Height to Low" is displayed on the operation panel. Change the head height to Low.
 4.2.5 Head height adjustment
- "Perform Washing? Yes" is displayed on the operation panel.

NOTE

- Perform head cleaning depending on the ink to use.
- If head cleaning is not necessary depending on the ink in use, press [+] or [-] key to select "Perform Washing? No", then go to step 9 in this section.

7. Press the [Enter] key on the operation panel.

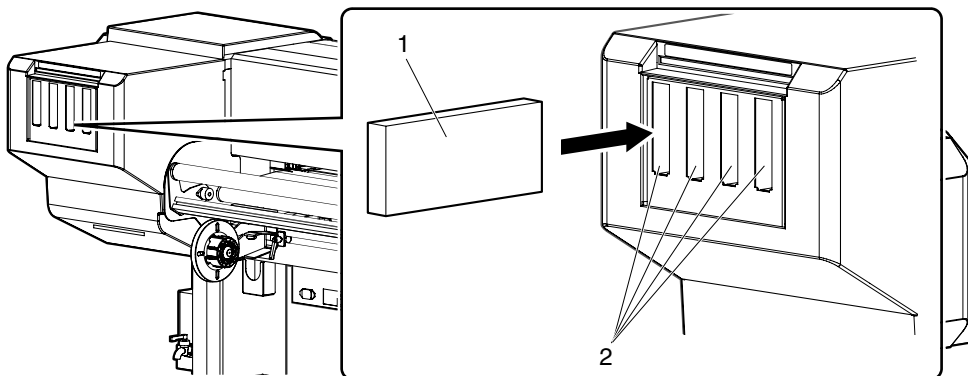


- "Insert CleaningCart." is displayed on the operation panel

8. Prepare cleaning cartridges (8 pieces each).

9. Insert the cleaning cartridges (4 pieces) into the ink cartridge slots (4 slots).

- Insert the cleaning cartridges with the ▲ mark facing up.
- Insert the cleaning cartridges all the way to the end of the slot.

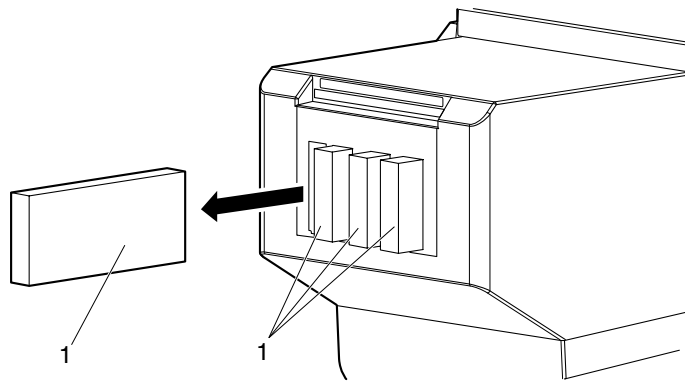


No.	Name
1	Cleaning cartridge
2	Ink cartridge slot

10. In the same way as step 6, insert the cleaning cartridges (4 pieces) in the ink cartridge slots (4 slots) on the rear right side of the printer.

- Once all the cleaning cartridges are installed, "Busy-Washing" is displayed on the operation panel, and the printer will start charging the cleaning liquid.
- After charging the cleaning liquid, "Remove Cartridges" is displayed on the operation panel.

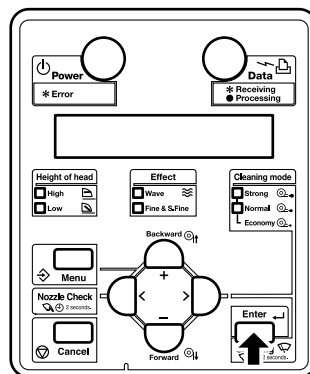
11. Remove the cleaning cartridges.



No.	Name
1	Cleaning cartridge

- "Busy-Washing" is displayed on the operation panel, and the printer starts head cleaning.
- After head cleaning, "Wash Retry? No" is displayed on the operation panel.

12. Press the [Enter] key on the operation panel.



- "Insert InkCartridges" is displayed on the operation panel.

13. Shake the ink cartridge gently two to three times before inserting them.

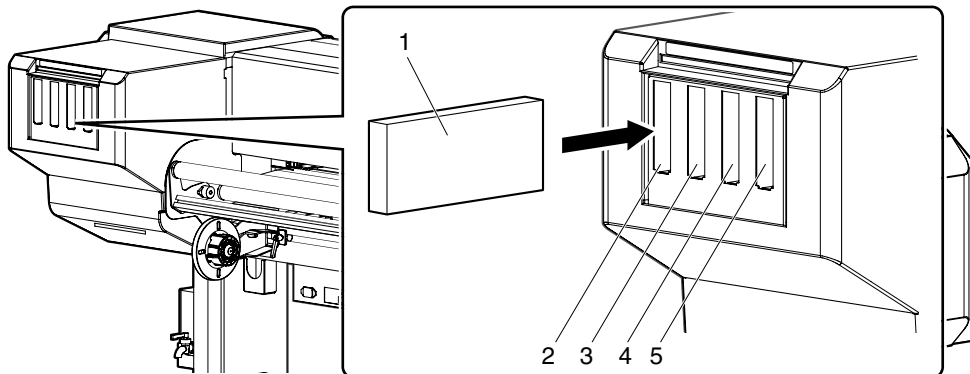
- Keep ▲ mark of the ink cartridge facing up and insert towards the printer side.
- Insert the ink cartridge all the way to the end of the slot.
- Slots for the ink cartridge changes depending on the number of ink colors used. See the table below in order to install the cartridges correctly according to slot number (the number on the sticker on the front of each slot) and ink color. Installing an ink cartridge in the incorrect slot will lead to inadequate printing results.
- When an ink cartridge is installed, "Ink Refill **%" is displayed on the operation panel and ink replenishment starts.
- Initial filling takes about nine minutes. Ink filling operation and pause operation are repeated during the ink replenishment.
- When "100%" is displayed, the ink replenishment is complete.

NOTE

- Do not perform the following operations during ink filling. If the ink filling is interrupted, the printer resume the filling operation, and some ink will be lost.
 - Do not turn OFF the printer.
 - Do not unplug the power cable.
 - Do not open the front cover.
 - Do not raise the media loading lever.
-

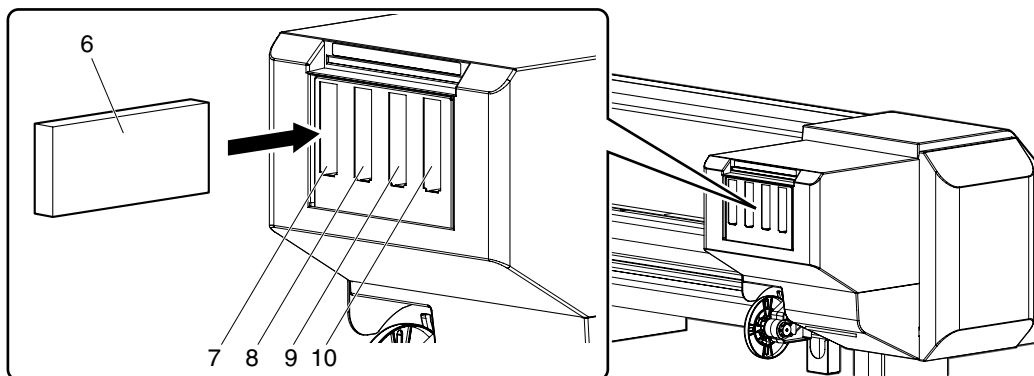
a When using eight colors

a-1. Left-rear side of the printer



No.	Name
1	Ink cartridge
2	K (Black)
3	C (Cyan)
4	M (Magenta)
5	Y (Yellow)

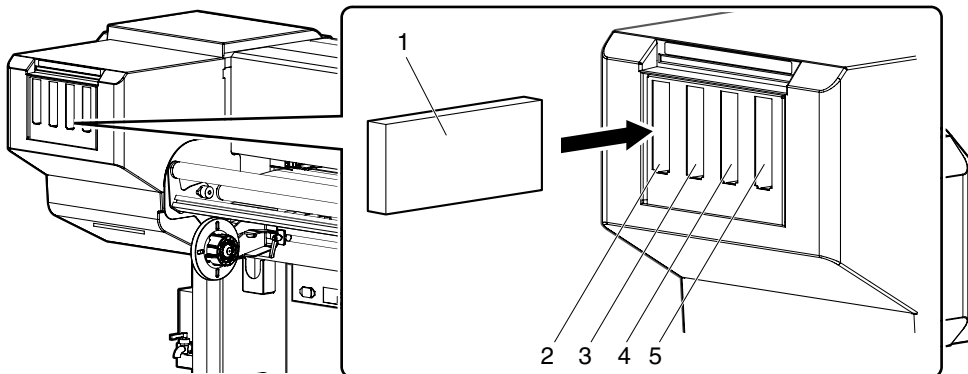
a-2. Right-rear side of the printer



No.	Name
6	Ink cartridge
7	SP1 (Special color 1)
8	SP2 (Special color 2)
9	SP3 (Special color 3)
10	SP4 (Special color 4)

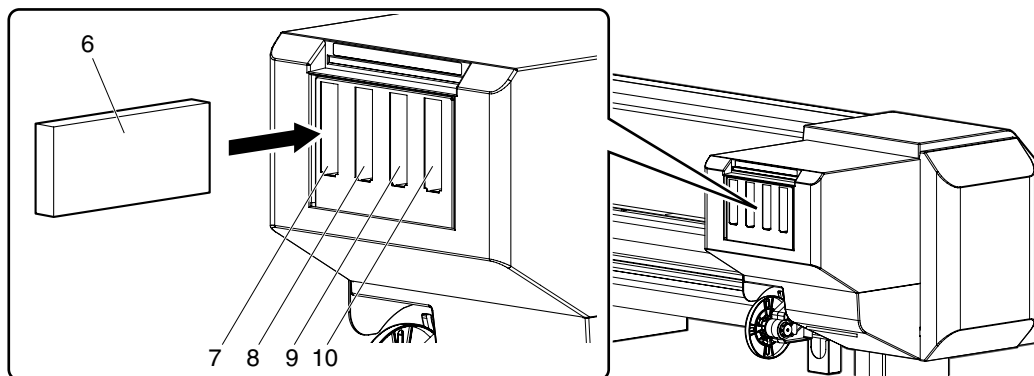
b When using six colors

b-1. Left-rear side of the printer



No.	Name
1	Ink cartridge
2	K (Black)
3	C (Cyan)
4	M (Magenta)
5	Y (Yellow)

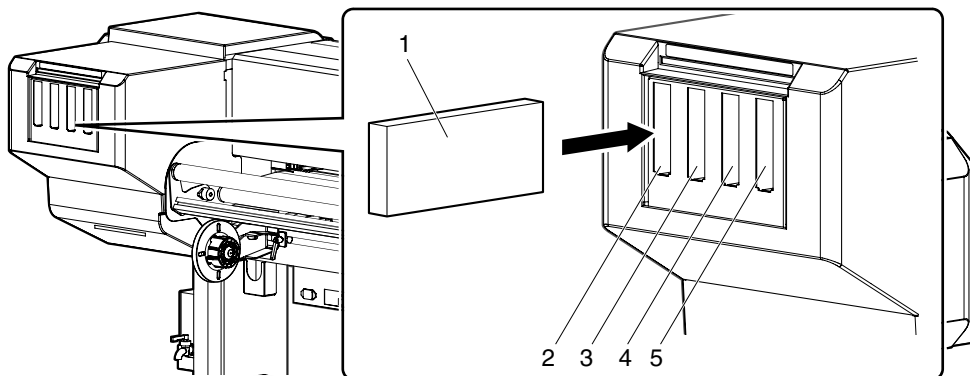
b-2. Right-rear side of the printer



No.	Name
6	Ink cartridge
7	SP1 (Special color 1)
8	SP2 (Special color 2)
9	Cleaning cartridge
10	Cleaning cartridge

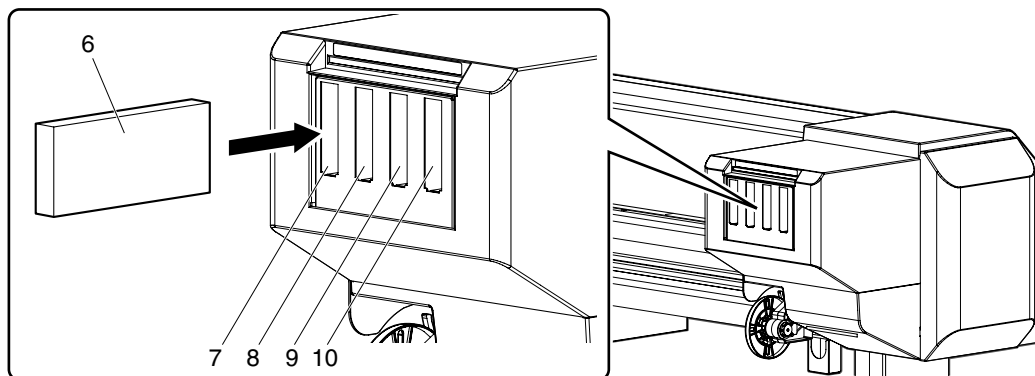
c When using different types of four ink colors

c-1. Left-rear side of the printer



No.	Name
1	Ink cartridge
2	K-A (Black A)
3	C-A (Cyan A)
4	M-A (Magenta A)
5	Y-A (Yellow A)

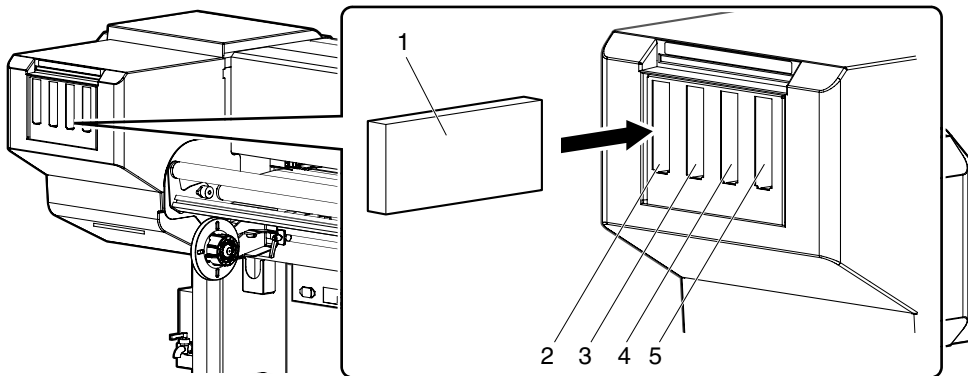
c-2. Right-rear side of the printer



No.	Name
6	Ink cartridge
7	K-B (Black B)
8	C-B (Cyan B)
9	M-B (Magenta B)
10	Y-B (Yellow B)

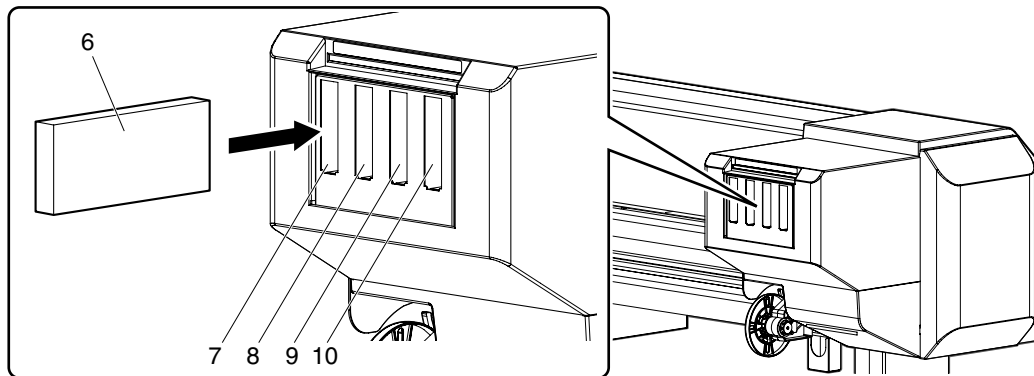
d When using the same types of four ink colors

d-1. Left-rear side of the printer



No.	Name
1	Ink cartridge
2	K-A (Black A)
3	C-A (Cyan A)
4	M-A (Magenta A)
5	Y-A (Yellow A)

d-2. Right-rear side of the printer



No.	Name
1	Ink cartridge
2	K-A (Black A)
3	C-A (Cyan A)
4	M-A (Magenta A)
5	Y-A (Yellow A)

- After the ink replenishment is complete, "Media End" is displayed on the operation panel.

NOTE

- If the printer perform the nozzle check printing immediately after initial ink replenishment is complete, the following results may occur.
 - Printed lines become blurred.
 - The data is partially not printed.

In such cases, follow "6.2.3 Head cleaning" and refill a small amount of ink. Then, check the printing result.

If there is no improvement in the print result even after refill a small amount of ink, leave the printer unused for an hour or more. Then, refill a small amount of ink again and check the print result.

If there is still no improvement, contact your local MUTOH dealer.

3.5 Setting media

This section explains how to load and set media, and settings for each media type. The following take-up units can be used with this printer.

Name	VJ-1628TD	VJ-2628TD
Take-up unit	Take-up unit for printer models VJ-1604 (VJ-16TUP30)	—
Heavy take-up unit	Heavy take-up unit for printer models VJ-16 (VJ-16TUP80)	Heavy take-up unit for printer models VJ-26 (VJ-26TUP100)

NOTE

- If you are not using take-up unit, the print quality cannot be guaranteed.
- When using fabric media, always use the take-up unit or heavy take-up unit (both optional parts).
 - ☞ 8.3 Options/Supply list
 - Take-up unit (model VJ-16TUP30) for printer models VJ-1604: Referred to as "Take-up Unit" in this Operation Manual.
 - Heavy take-up unit (VJ-16TUP80) for VJ-16 series printers and heavy take-up unit (VJ-26TUP100) for VJ-26 series printers: Referred to as "Heavy Take-up Unit" in this Operation Manual.
- For installation procedures and other operations of the take-up unit and heavy take-up unit, refer to their respective operation manuals.
- Refer to the following for details about handling media.
 - ☞ 4.2 Media
- Refer to the following for types and details of recommended media.
 - ☞ 4.2.1 Media type
 - ☞ 8.3 Options/Supply list

3.5.1 Loading and setting roll media

This section explains how to load roll media (fabric media, roll media).

Put the roll media in the center.

The following roll media can be loaded to this printer.


Items	VJ-1628TD	VJ-2628TD
Outside diameter	200mm or less	
Media tube diameter	Two inches or three inches	
Weight	30 kg or less *1	
Maximum media width	1625mm or less	2642 mm
Minimum media width	1000mm	
Thickness	0.3mm or less *2	

*1: 80 kg or less when using heavy take-up unit (VJ-16TUP80) for VJ-16 series printers

100 kg or less when using heavy take-up unit (VJ-26TUP100) for VJ-26 series printers

*2: This does not apply to fabric media

NOTE

- Refer to the following for details about roll media.
 8.1.1 Printer specifications

3.5.1.1 Loading roll media into the printer

When using a take-up unit to print, or when using these printers by themselves to print, first load the roll media into the printer.

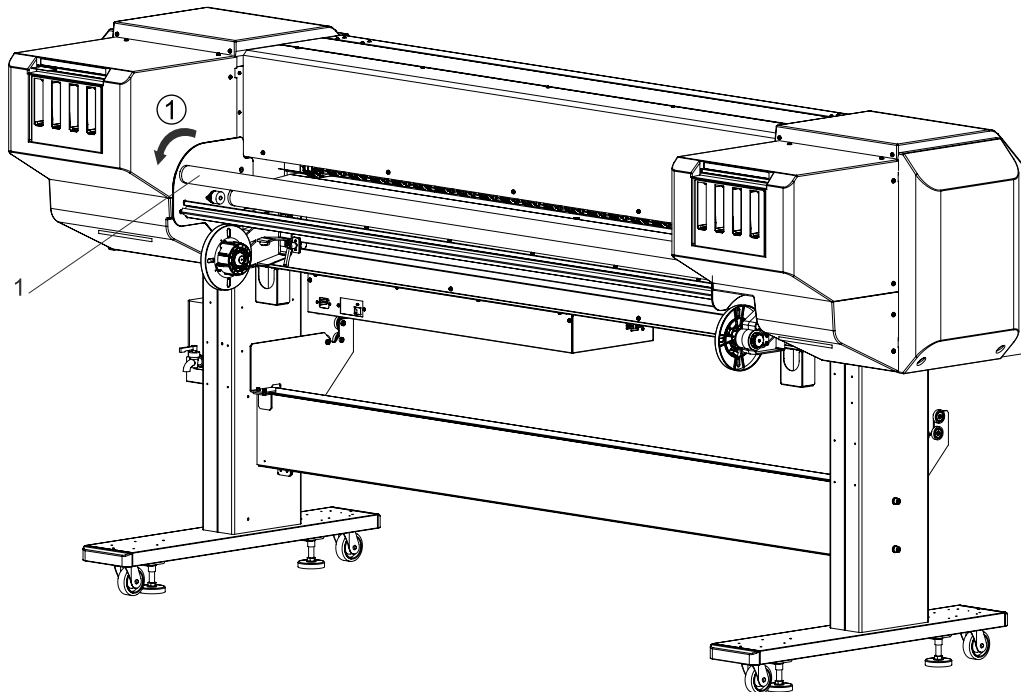
NOTE

The procedure for loading roll media when using the heavy take-up unit is shown below.

☞ 3.5.1.5 Loading roll media in the heavy take-up unit

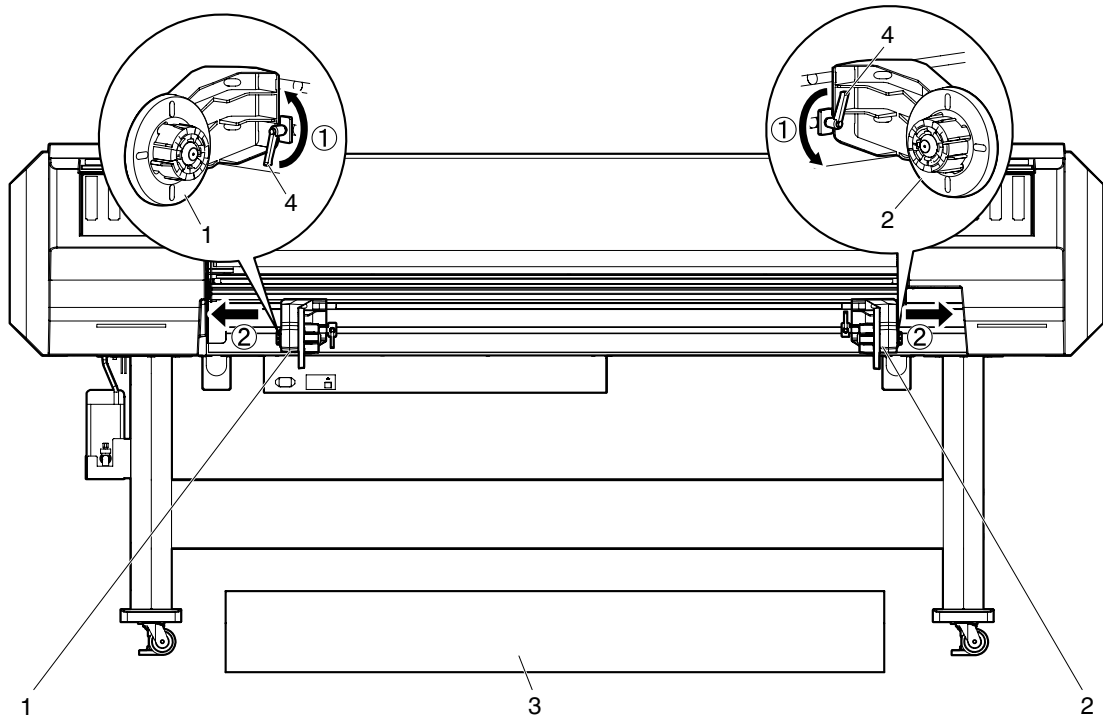
Follow the procedure below to load the roll media.

1. Release the tension roller.



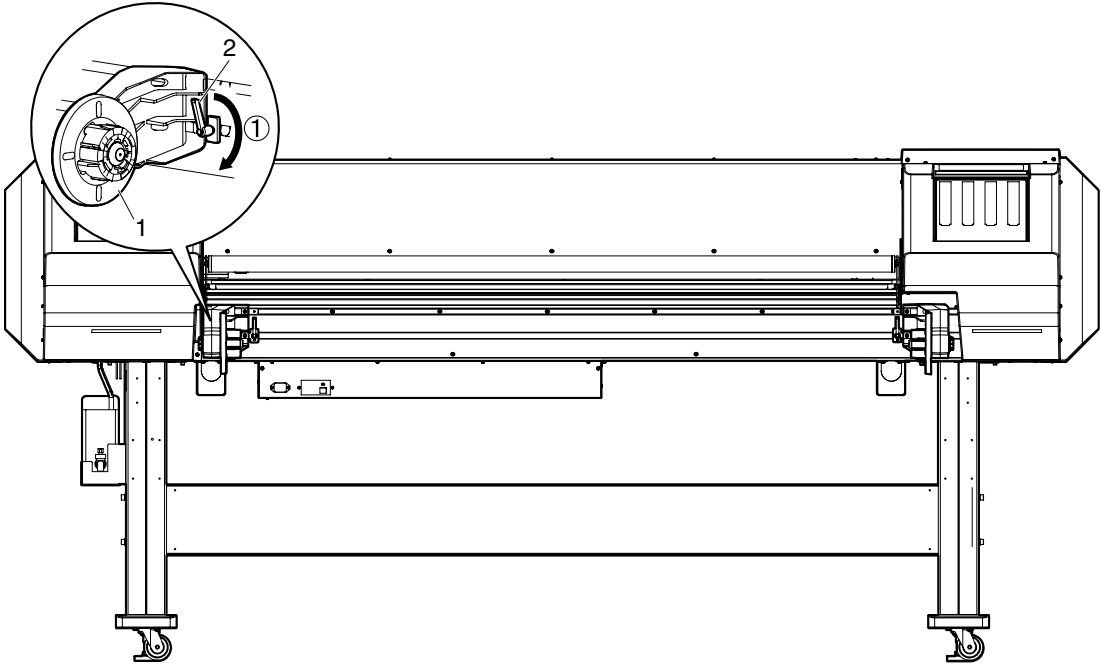
No.	Name
1	Tension roller

- Loosen the fixing levers on the right and left side of the rear. Set the distance between the roll media holders wider than the roll media width.



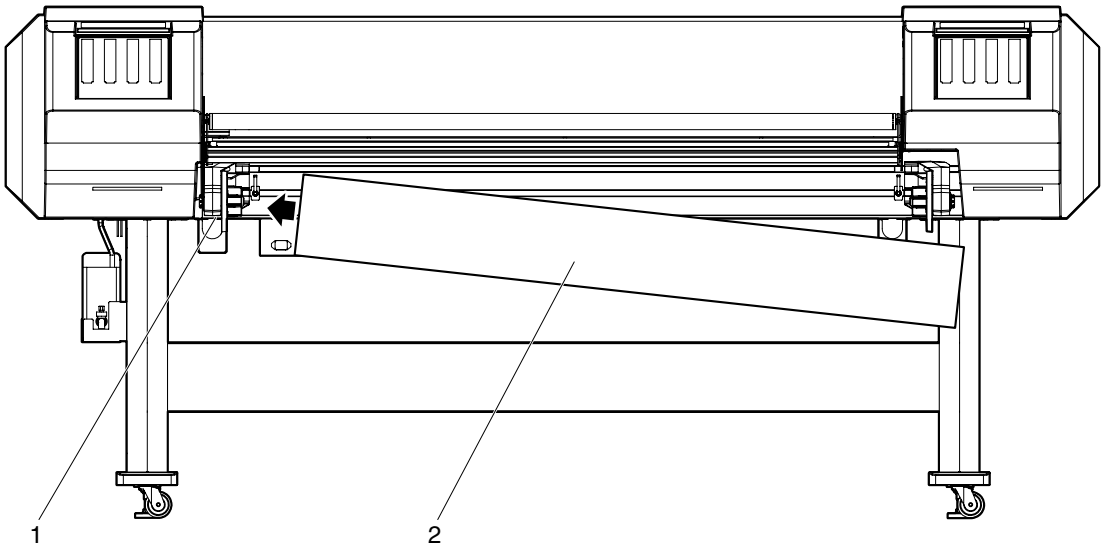
No.	Name
1	Roll media holder (Left)
2	Roll media holder (Right)
3	Roll media
4	Fixing lever

3. Fix the roll media holder (Left).



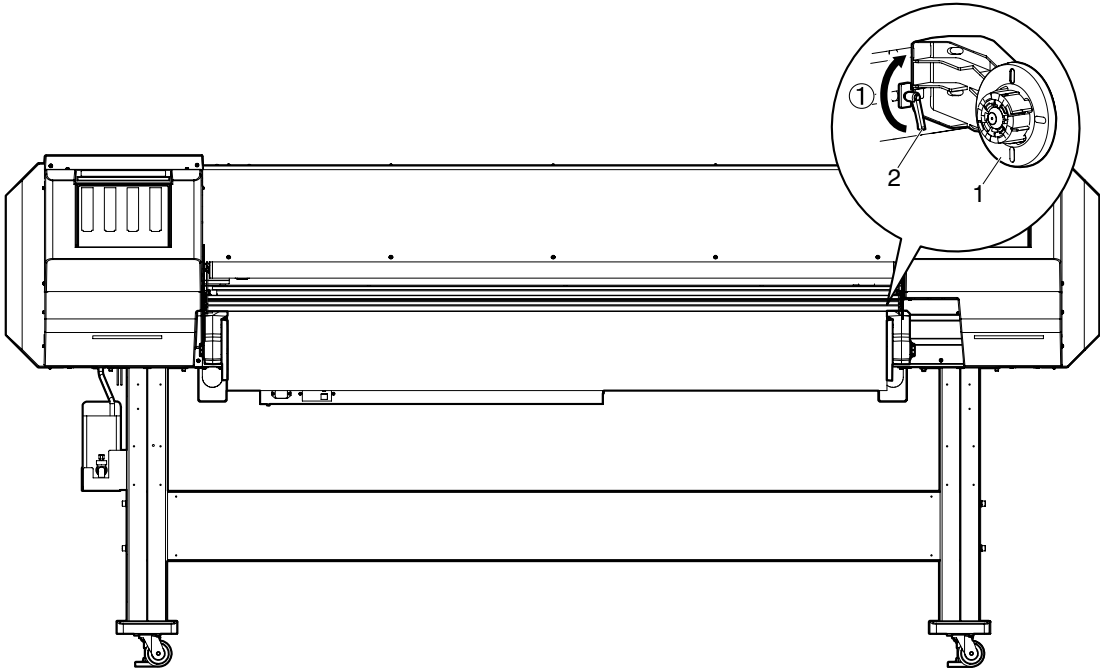
No.	Name
1	Roll media holder (Left)
2	Fixing lever

4. Set the roll media to the roll media holder (Left).



No.	Name
1	Roll media holder (Left)
2	Roll media

5. Set the roll media to the roll media holder (Right) and fix the fixing lever.

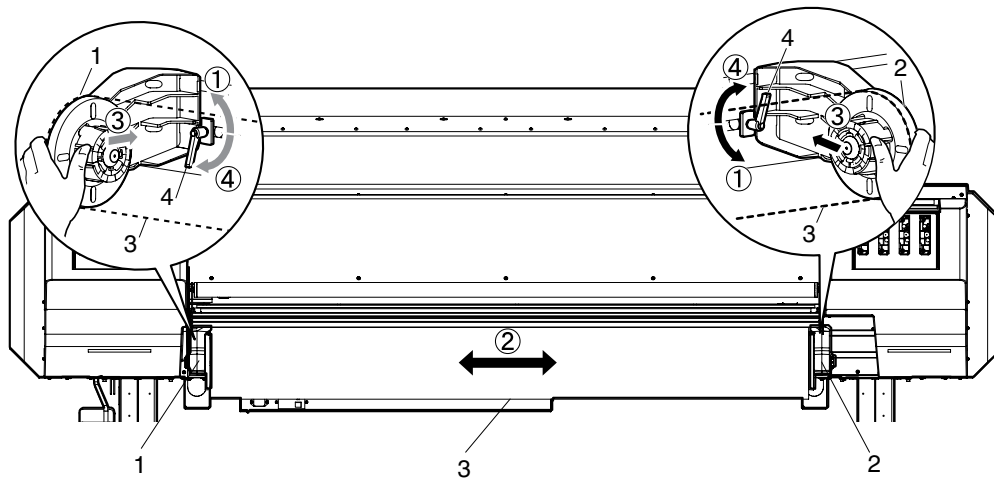


No.	Name
1	Roll media holder (Right)
2	Fixing lever


6. Loosen the fixing levers of the right and left roll media holders, move the roll media to the center and tighten the levers.

NOTE

- Fix the roll media holders by pressing the holders to the printer.



No.	Name
1	Roll media holder (Left)
2	Roll media holder (Right)
3	Roll media
4	Fixing lever

- The procedure for loading the roll media is complete.
- Next, set the roll media.
 3.5.1.3 Setting roll media to the take-up unit

3.5.1.2 Changing Torque of Roll Media Holder

This section explains how to change the torque setting of the Roll media holder.

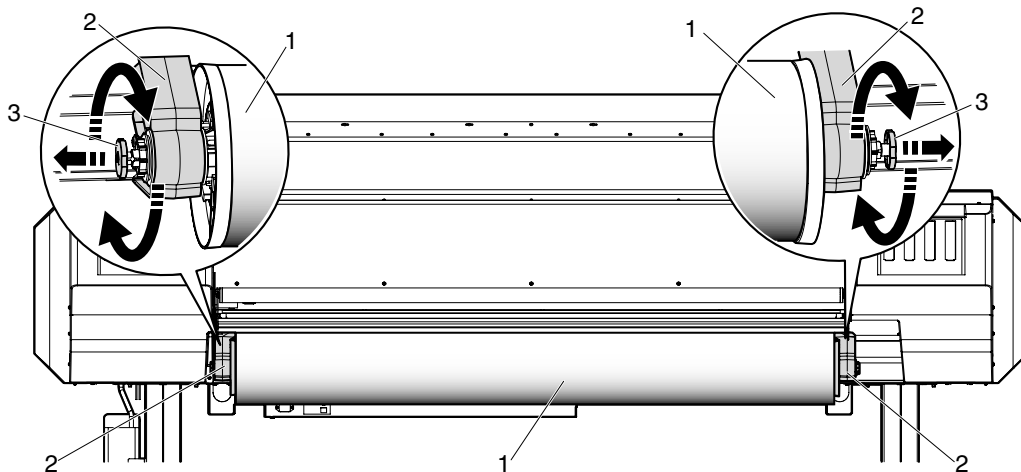
The 1 kg torque is usually used. When the print head might have a risk of striking the media, change to the 4 kg torque.

NOTE

- Change to the 4 kg torque especially when using transfer paper.

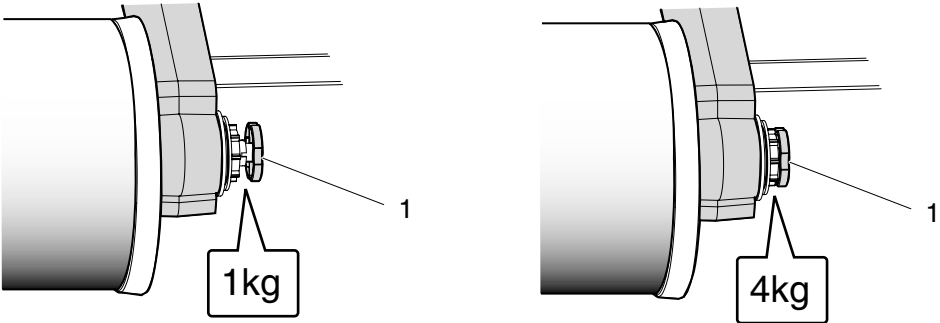
Follow the procedure below to change the torque setting of the Roll media holders.

1. Rotate the damper knob placed at the Roll media holder (the back left and right of the printer) by 90 degrees while pulling it out.
 - When you rotate the damper knob by 90 degrees, it clicks into place. Rotating the damper knob by 90 degrees alternately changes the 1 kg torque and 4 kg torque.
 - Change the torque setting for both of the Roll media holders.



No.	Name
1	Media
2	Roll media holder
3	Damper knob

- Torque can be set to either 1kg or 4kg as below.



No.	Name
1	Damper knobs

3.5.1.3 Setting roll media to the take-up unit

This section explains how to set roll media to the take-up unit.

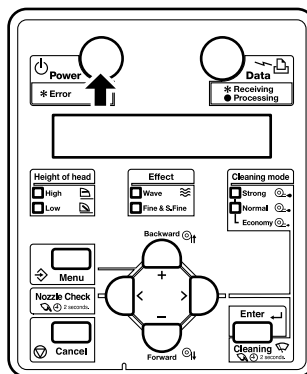
NOTE

- Load the roll media into the printer before setting it to the take-up unit.

☞ 3.5.1.1 Loading roll media into the printer

Follow the procedure below to set the roll media to the take-up unit.

1. Turn the printer ON.



CAUTION

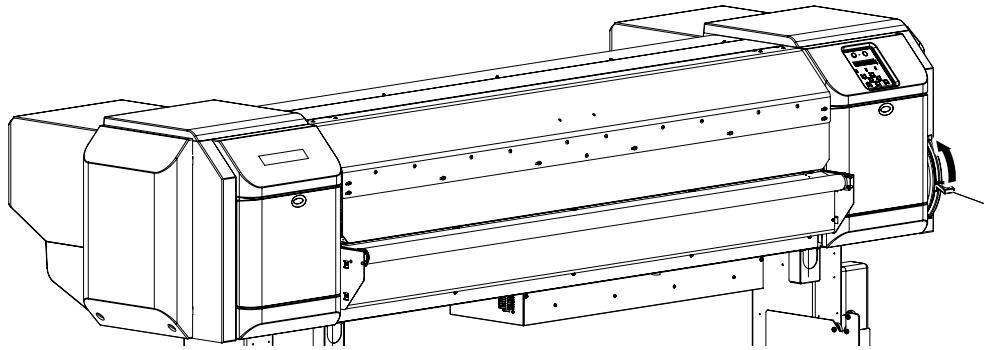
- **Do not operate the media loading lever during initial operation. The print head portion may touch the pressurizing roller portion, and cause a malfunction.**

- The printer starts the initializing operation.
 - "Media End" is displayed on the operation panel.
2. From the Setup menu display, display the "Media Set" menu and confirm that the setting is "Roll".
☞ 4.3.1 Menu setup procedure
 3. From the Setup menu, display the "Take-up" menu and set to "Type1".
☞ 5.1.7 Take-up menu
 4. From the Setup menu display, display "Vacuum Fan" menu and confirm that the setting is "OFF".
☞ 5.1.1.1.3 Vacuum Fan menu

NOTE

- Do not perform this step when printing on the transfer paper.

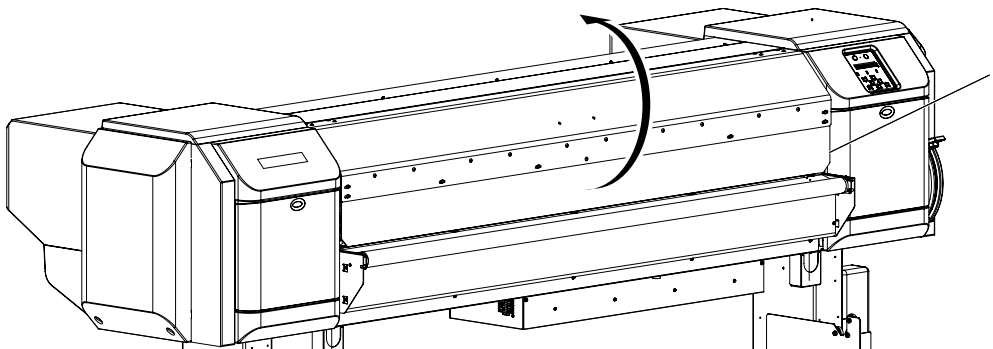
5. Raise the media loading lever.



No.	Name
1	Media loading lever

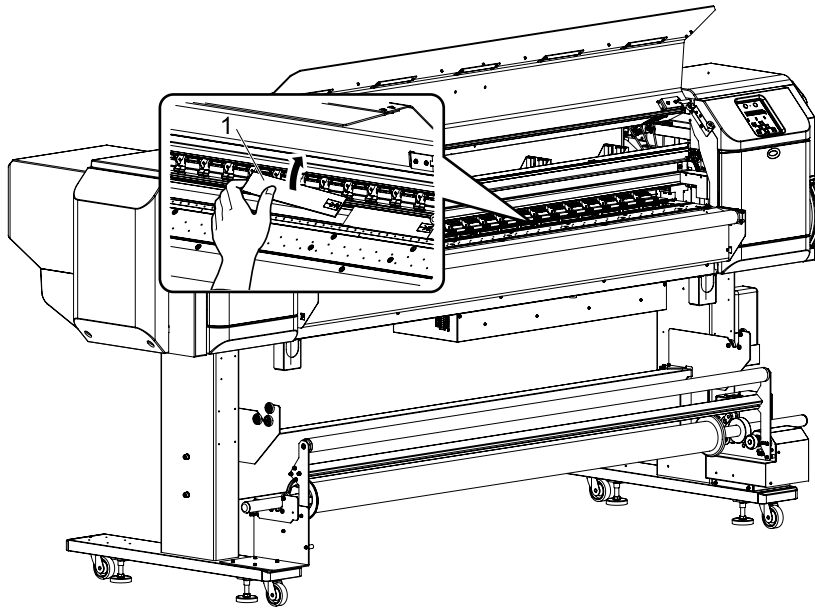
- "Lever Up" is displayed on the operation panel.

6. Open the front cover.



No.	Name
1	Front cover

7. When you print using the media with print through, such as the fabric media, remove all the ink gutters. (VJ-1628TD: 7, VJ-2628TD: 11)

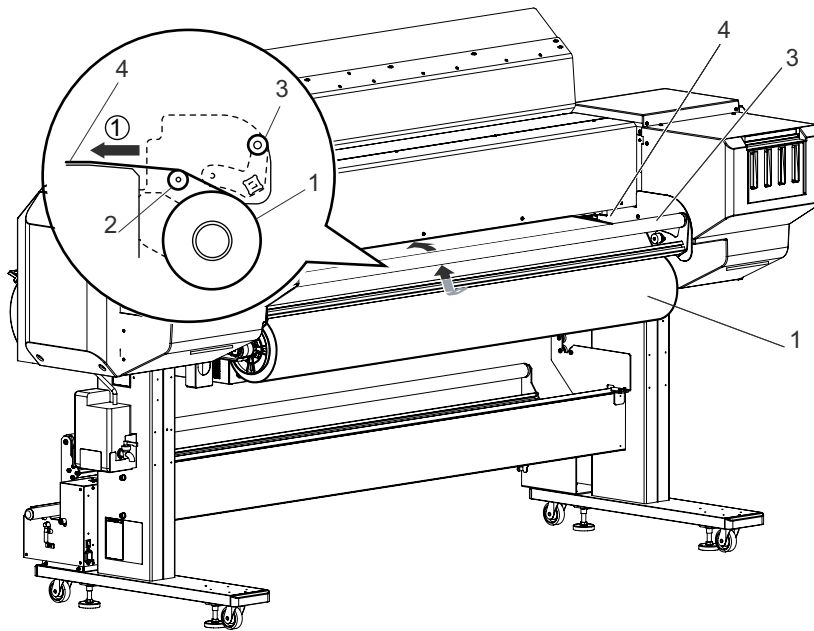


No.	Name
1	Ink gutter cover

NOTE

- Removing ink gutter covers turns OFF the vacuum fan.
☞ 5.1.1.1.3 Vacuum Fan menu
- Remove the ink gutter covers only when using the media with print-through characteristics.
- When using the media with no print through, it is necessary to install the ink gutter covers.
- Insert the ink gutter cover in the direction as shown in the figure, until the clicking sound is heard.
- After installation, make sure that the ink gutter cover is not protruding from the top surface of the platen.

8. Pass the media over the fixing roller on the tension roller, and insert it into the media feed slot.

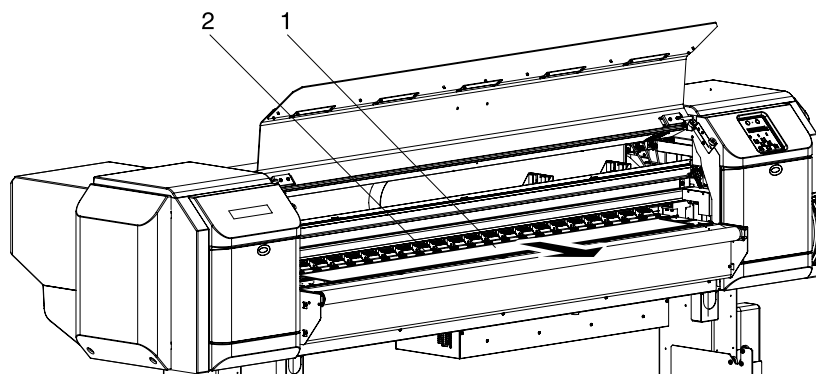


No.	Name
1	Roll media
2	Fixing roller
3	Tension roller
4	Media feed slot

NOTE

- If the end of the roll media is not wound tightly, wind it tightly again, and then load it.

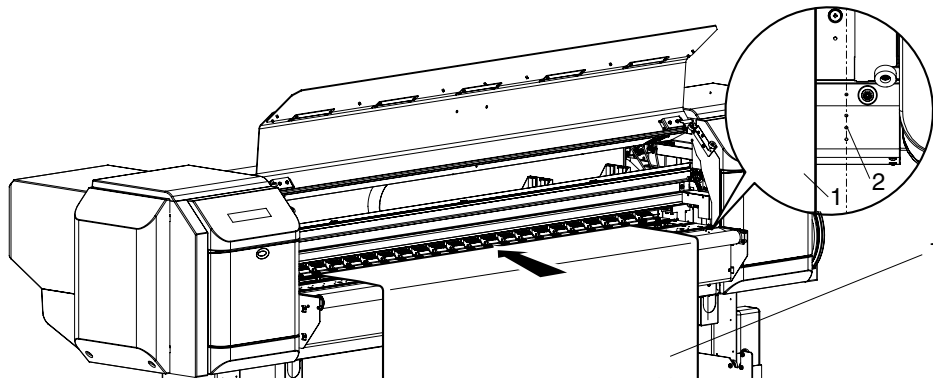
9. Pull the roll media out about 1 m from the front media feed slot which is located inside of the front cover.



10. Rewind the roll media a little by rolling the flange on the roll media holder while holding the edge of the media, and eliminate any slack or slant.

NOTE

- If you set the roll media free while rewinding, the roll media will fall out from the media feed slot on the rear of the product.
- Confirm that the right edge of the roll media does not go beyond the loading mark. Failing to do so will make it difficult to detect the media width.

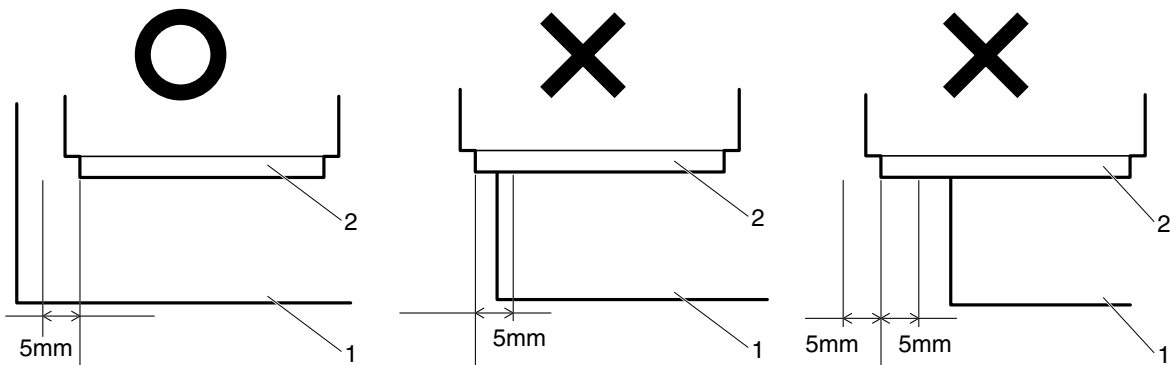


No.	Name
1	Roll media
2	Media loading mark

When setting the fabric media

NOTE

- When setting the fabric media, set both sides of the media at least 5 mm away from the edge of the pressurizing roller.
Slippage or creases may occur during printing.

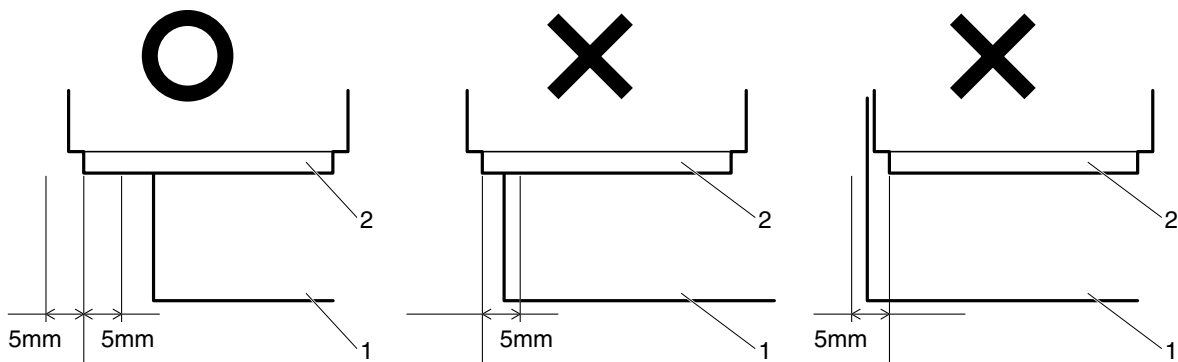


No.	Name
1	Fabric media
2	Pressurizing rollers

When setting the paper media

NOTE

- When setting the roll media, set both sides of the media at least 5 mm inside from the edge of the pressurizing roller.
Slippage or creases may occur during printing.

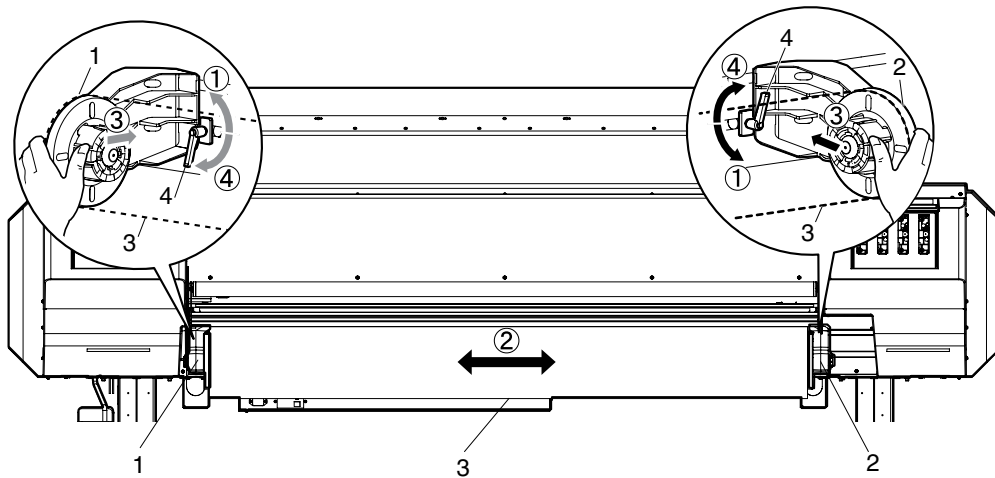


No.	Name
1	Roll media
2	Pressurizing rollers

11. When the roll media is not set properly, follow the procedures below to adjust the position of the media.
 - a. Loosen the fixing levers of the right and left roll media holders, and move the roll media to left or right.
 - b. After moving the roll media, fix it with fixing levers of the right and left roll media holders.

NOTE

- Fix the roll media holders by pressing the holders to the printer.



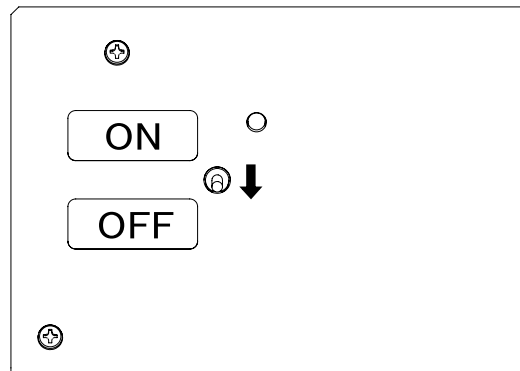
No.	Name
1	Roll media holder (Left)
2	Roll media holder (Right)
3	Roll media
4	Fixing lever

12. Cut the front edge of the roll media, if necessary, to make it straight.

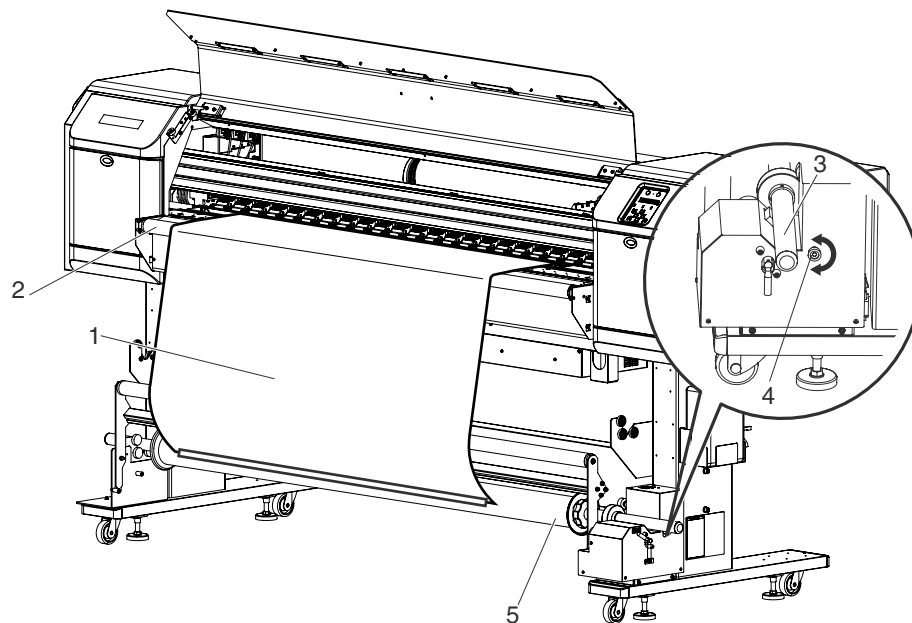
☞ 4.4.3 Cutting media

13. Turn the take-up unit ON.

14. Make sure that the Shift switch is turned OFF.



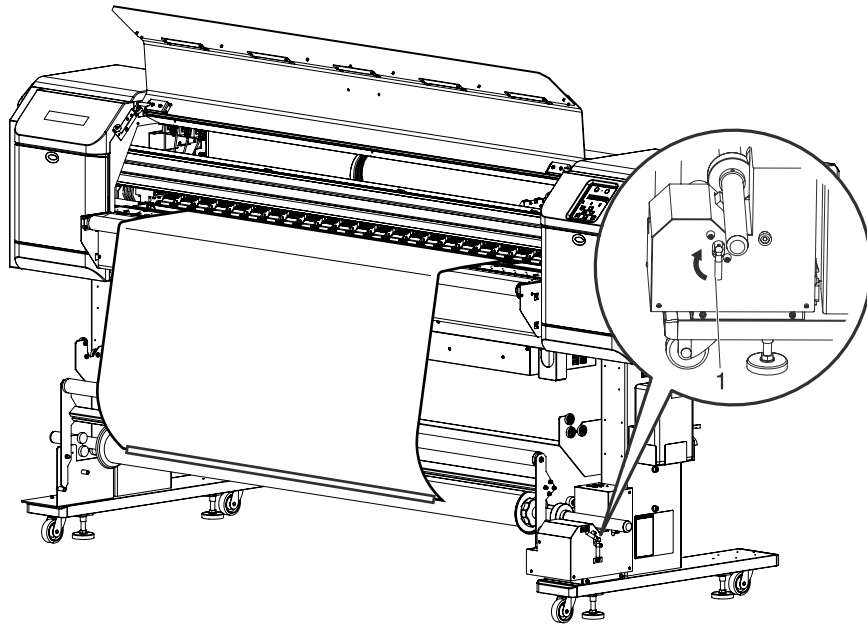
15. Use the scroller position adjustment screw to adjust the position of the scroller until the roll media is centered.
16. Pull out the roll media from the printers feed slot, pass it over the front roller and through the outside of the cushioning roller, then fix the media into place at several locations with tape so that both edges are parallel with the media tube.



No.	Name
1	Roll media
2	Front roller
3	Scroller
4	Scroller position adjustment screw
5	Media tube

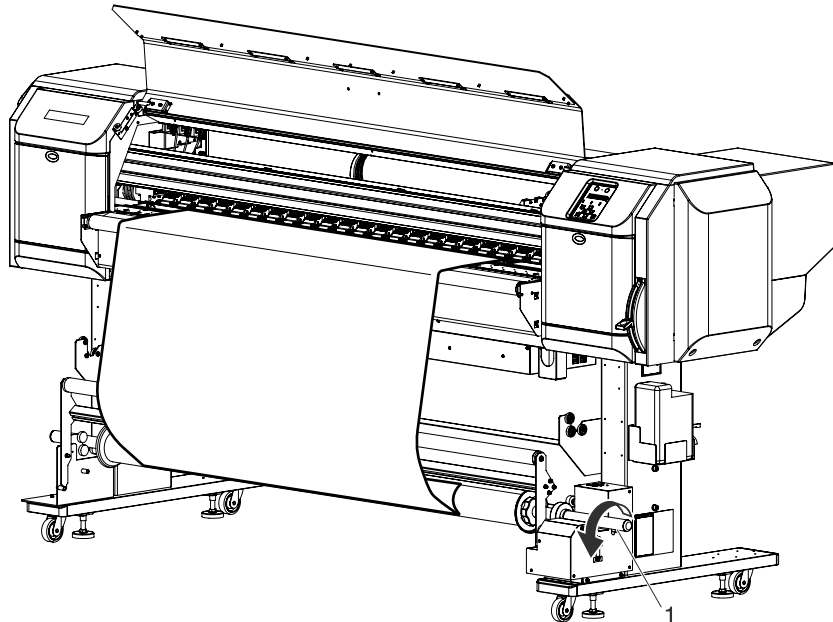
17. Raise the scroller release lever.

- The scroller moves away from the driving mechanism.



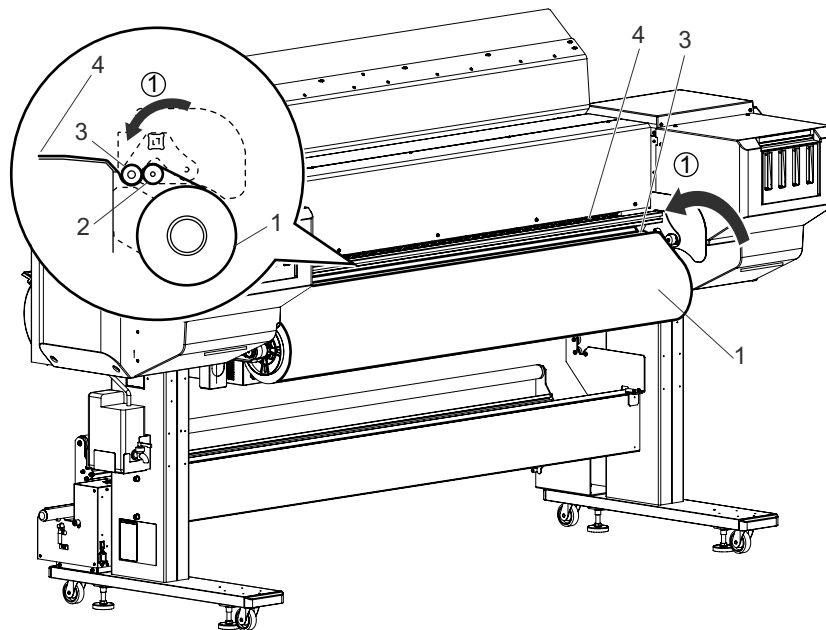
No.	Name
1	Scroller release lever

18. Turn the scroller by hand, scrolling the roll media onto the media tube for at least two full turns.



No.	Name
1	Scroller

19. Set the tension roller.

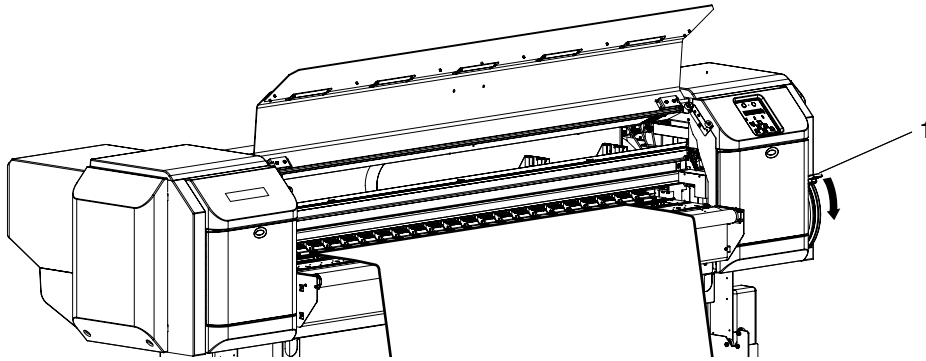


No.	Name
1	Roll media
2	Fixing roller
3	Tension roller
4	Media feed slot

NOTE

When using rigid media, leave the tension roller released.

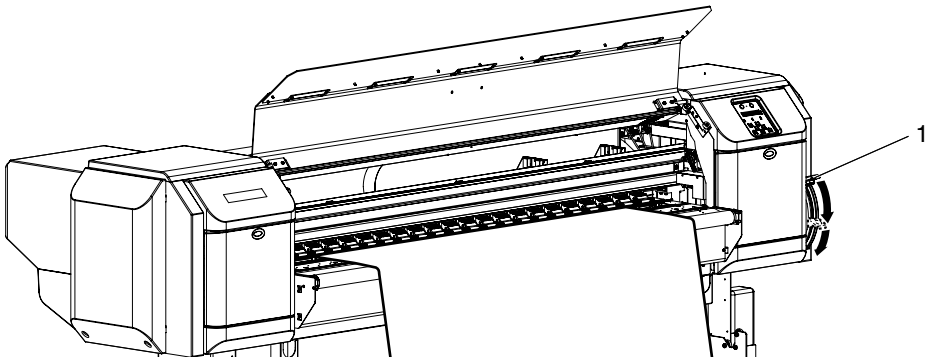
20. Lower the media loading lever.



No.	Name
1	Media loading lever

4.4.3 Cutting media

- When you increase the pressure for the media, lower the media loading lever further as shown below.



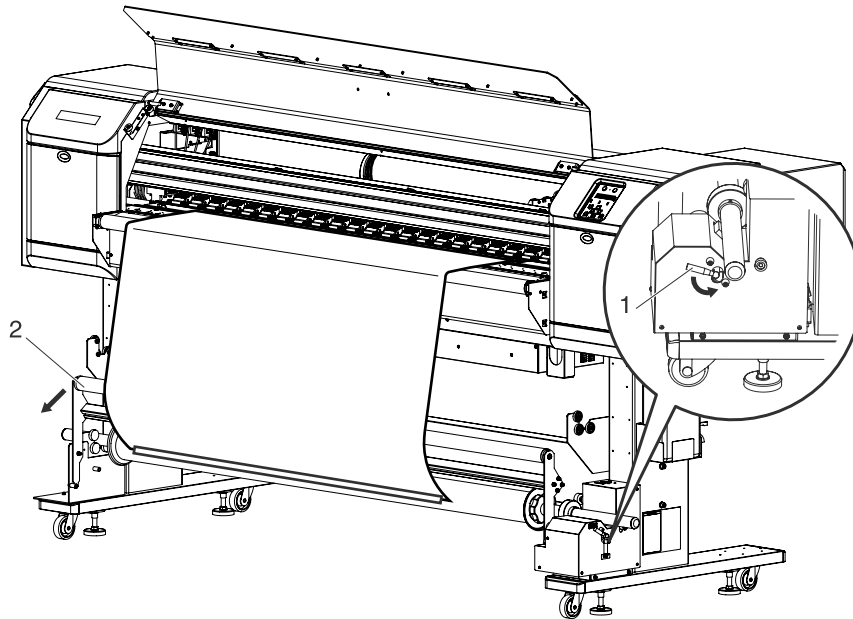
No.	Name
1	Media loading lever

21. Lower the scroller release lever to its original position.

22. Pull the cushioning roller forward.

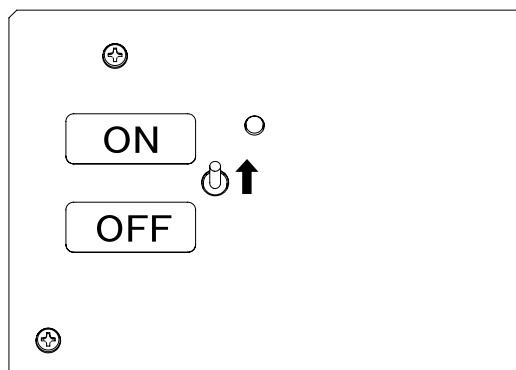
NOTE

If the cushioning roller is not pulled forward, the take-up unit will not function.

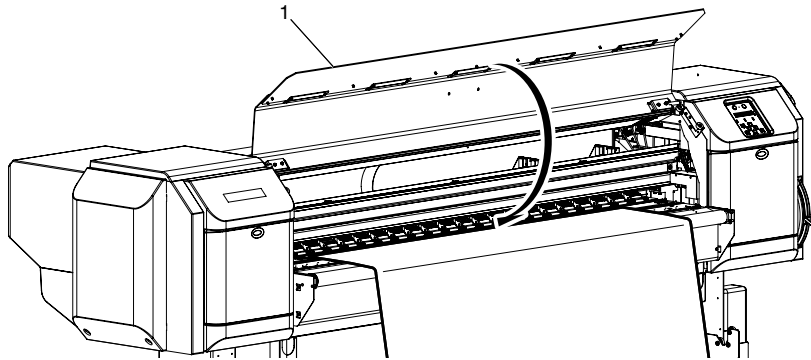


No.	Name
1	Scroller release lever
2	Cushioning roller

23. Turn ON the Shift switch.



24. Close the printer's front cover.



No.	Name
1	Front cover

- The Media type setup menu is displayed on the operation panel.
- The procedure for setting the roll media is complete.
- Next, set the media type.
 ↳ 4.2.1 Media type

NOTE

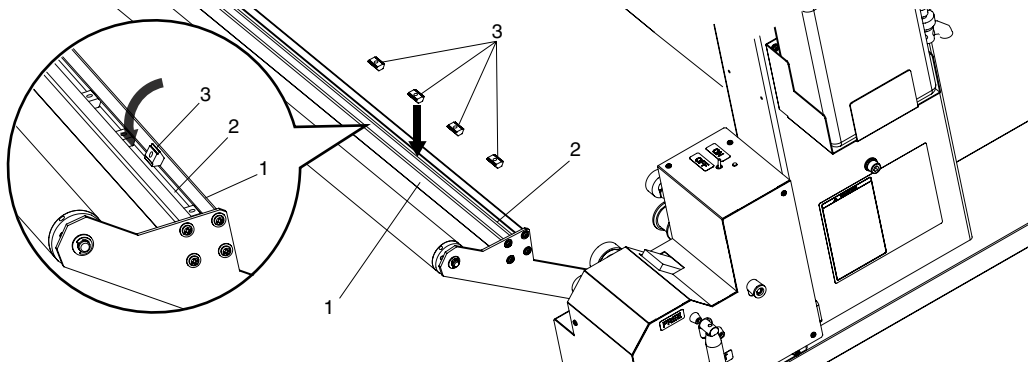
- After printing is started, the roll media is automatically fed along the scroller. When using the Origin menu or winding the media manually, first raise the scroller release lever on the take-up unit.

3.5.1.4 Adjusting tension roller of take-up unit

Attach the weight supplied with the printer to the take-up unit to get rid of creases when using fabric media.

Follow the procedure below to attach the weight to the take-up unit.

1. Insert four roll-in T-slot nuts to the right side of the reinforcing rail groove.

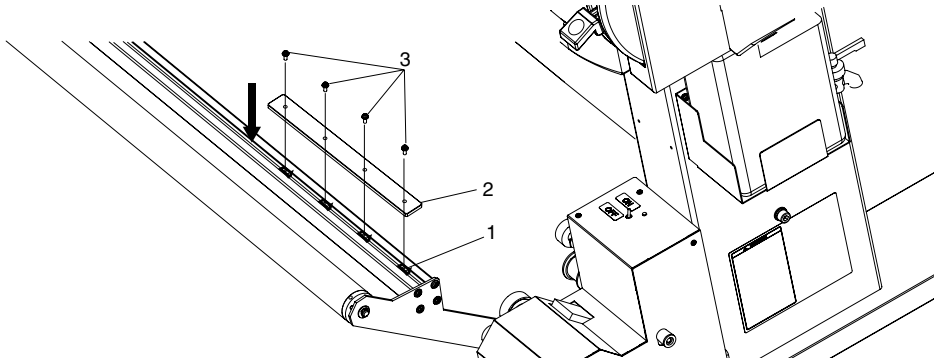


No.	Name
1	Reinforcing rail
2	Groove
3	Roll-in T-slot nut

NOTE

Insert roll-in T-slot nuts at an angle to the reinforcing rail groove.

- Fix the weight to the roll-in T-slot nut with screw.



No.	Name
1	Weight
2	Roll-in T-slot nut
3	Screw

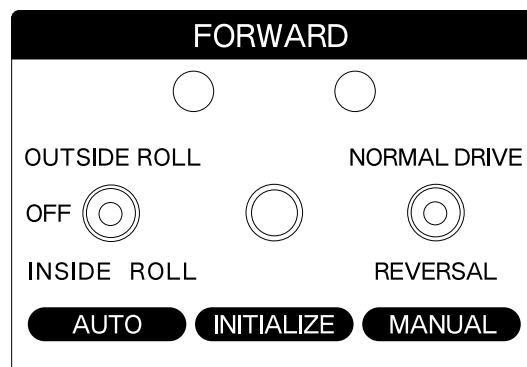
- In the same way in step 1, insert four roll-in T-slot nuts to the left side of the reinforcing rail groove.
- Fix the weight to the roll-in T-slot nut with screw.

3.5.1.5 Loading roll media in the heavy take-up unit

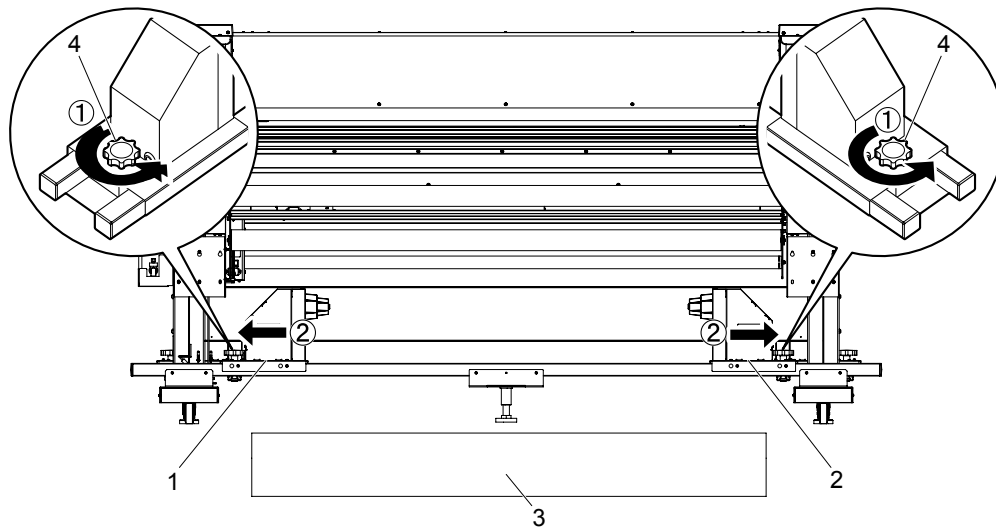
This section explains how to load roll media into the heavy take-up unit. Put the roll media in the center.

Follow the procedure below to install the roll media.

- Turn the heavy take-up unit ON.
- Make sure that the Shift switch on the feed unit is turned OFF.

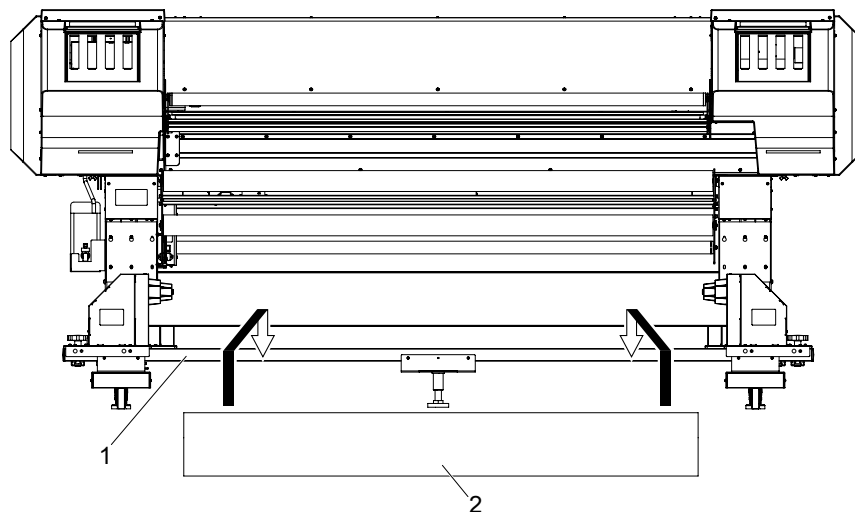


3. Release the feed unit handles on the right and left sides of the rear of the heavy take-up unit. Set the feed unit width wider than the horizontal width of the media.



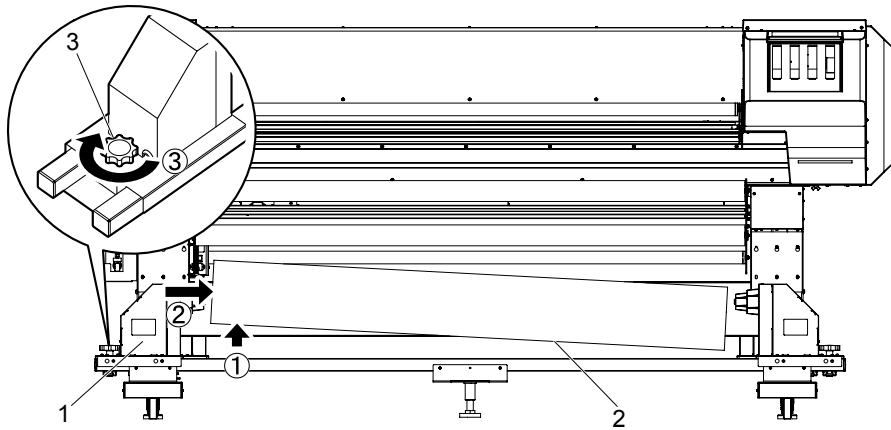
No.	Name
1	Feed unit (Left)
2	Feed unit (Right)
3	Roll media
4	Handle

4. Place the roll media on the rear rail.



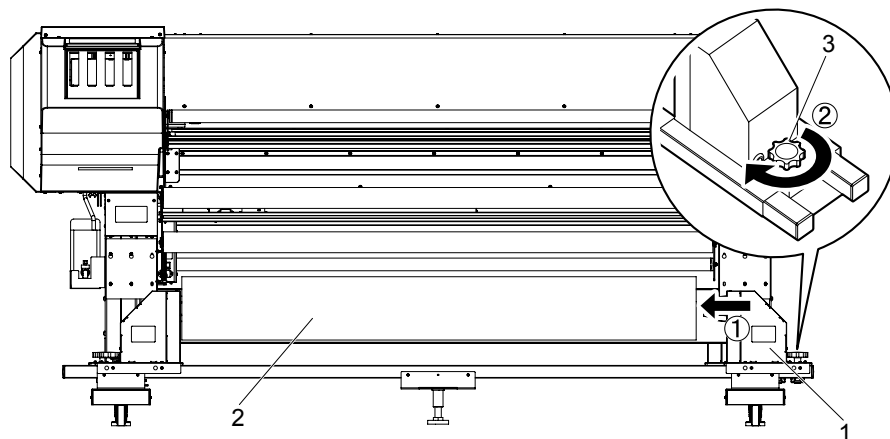
No.	Name
1	Rear rail
2	Roll media

- Lift the left side of the roll media (looking from the rear of the heavy take-up unit), attach it to the feed unit, and tighten the handles.



No.	Name
1	Feed unit (Left)
2	Roll media
3	Handle

- Set the other side of the roll media in the same way as in step 3.

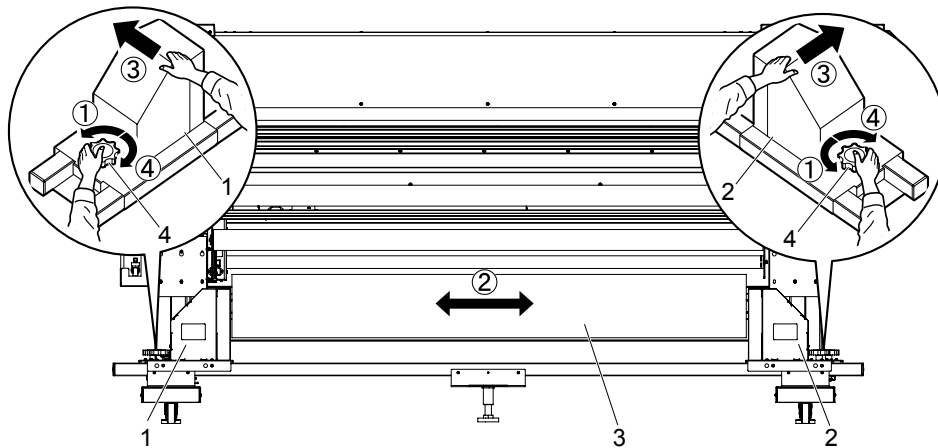


No.	Name
1	Feed unit (Right)
2	Roll media
3	Handle

7. Loosen the handles on the right and left feed units, move the roll media to the center of the heavy take-up unit, and tighten the handles.

NOTE

Fix the feed unit while pressing it against the printer.



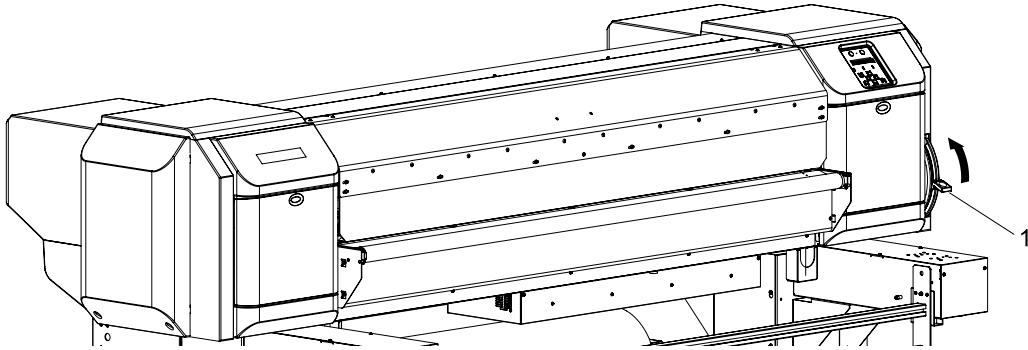
No.	Name
1	Feed unit (Left)
2	Feed unit (Right)
3	Roll media
4	Handle

8. Turn the printer ON.
- The printer starts the initializing operation.
 - "Media End" is displayed on the operation panel.
9. From the Setup menu display, display the "Media Set" menu and confirm that the setting is "Roll".
 ☞ 4.3.1 Menu setup procedure
10. From the Setup menu, display the "Take-up" menu and set to "Type1".
 ☞ 5.1.7 Take-up menu
11. From the Setup menu display, display "Vacuum Fan" menu and confirm that the setting is "OFF".
 ☞ 5.1.1.1.3 Vacuum Fan menu

NOTE

- Do not perform this step when printing on the transfer paper.

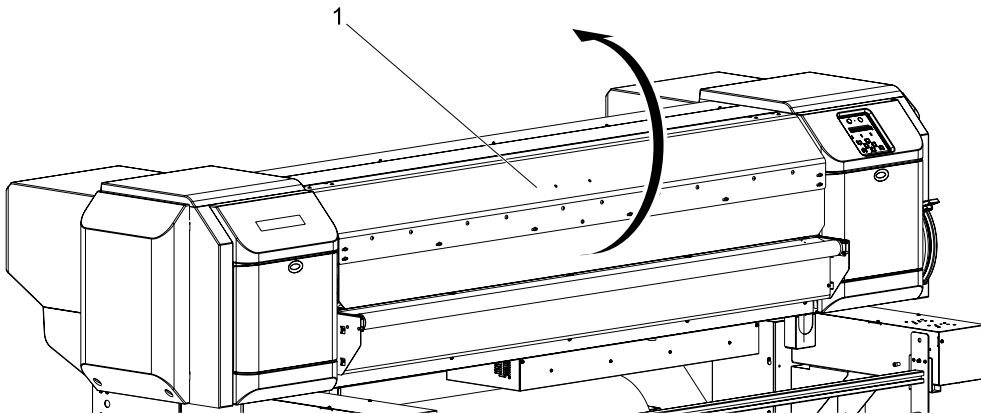
12. Raise the media loading lever.



No.	Name
1	Media loading lever

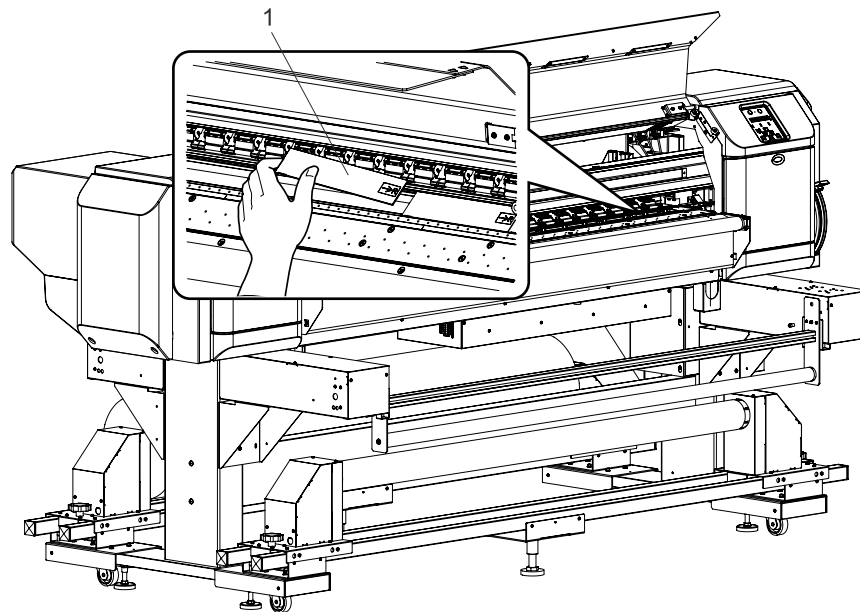
- "Lever Up" is displayed on the operation panel.

13. Open the front cover.



No.	Name
1	Front cover

14. When you print using the media with print through, such as the fabric media, remove all the ink gutters. (VJ-1628TD: 7, VJ-2628TD: 11)



No.	Name
1	Ink gutter cover

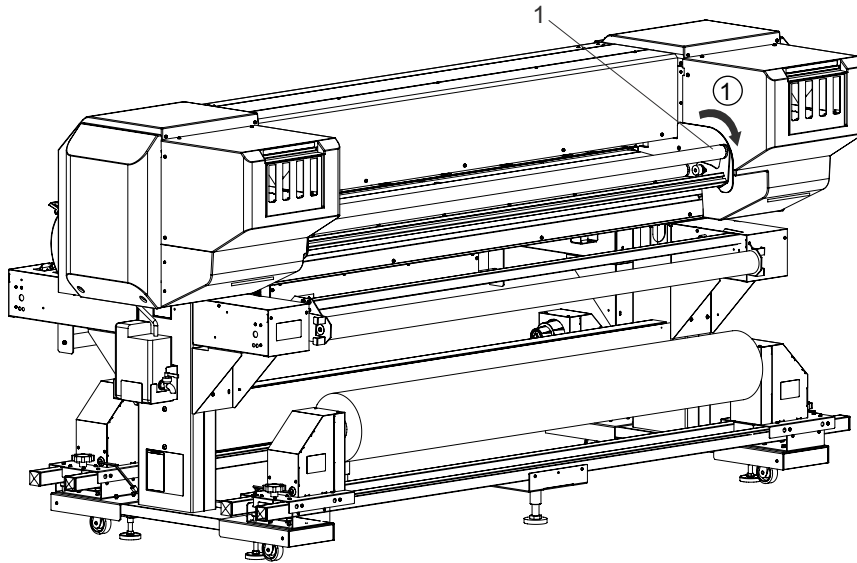
NOTE

- Removing ink gutter covers turns OFF the vacuum fan.
☞ 5.1.1.1.3 Vacuum Fan menu
- Remove the ink gutter covers only when using the media with print-through characteristics.
- When using the media with no print through, it is necessary to install the ink gutter covers.
 - Insert the ink gutter cover in the direction as shown in the figure, until the clicking sound is heard.
 - After installation, make sure that the ink gutter cover is not protruding from the top surface of the platen.

CAUTION

Pay careful attention to install the ink gutter cover to the correct position. If the ink gutter cover protrudes from the top surface of the platen, it may damage the print head.

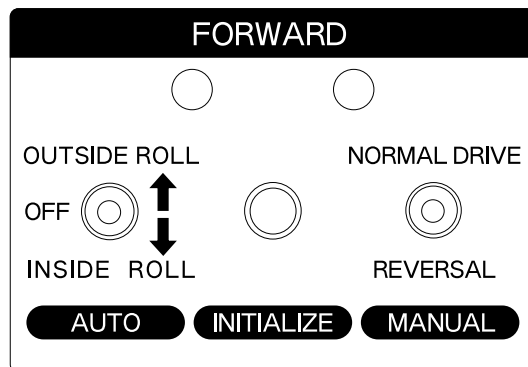
15. Release the printer's tension roller.



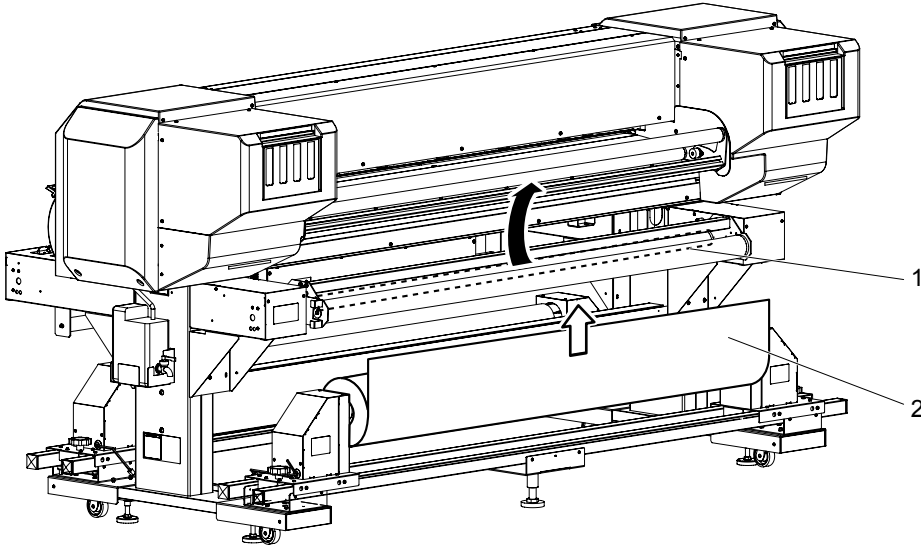
No.	Name
1	Tension roller

16. Shift the feed shift switch as shown below.

- Outside roll media: OUTSIDE ROLL
- Inside roll media: INSIDE ROLL



17. Lift up the tension roller at the rear of the heavy take-up unit with your hand.

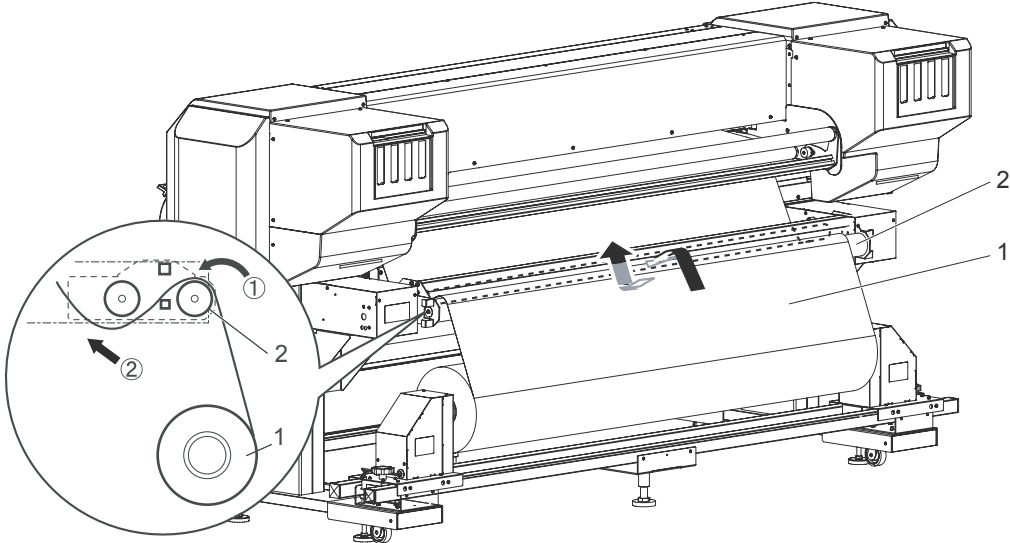


No.	Name
1	Tension roller
2	Roll media

- The roll media is fed.

18. Put roll media through Tension roller of Heavy-takeup unit.

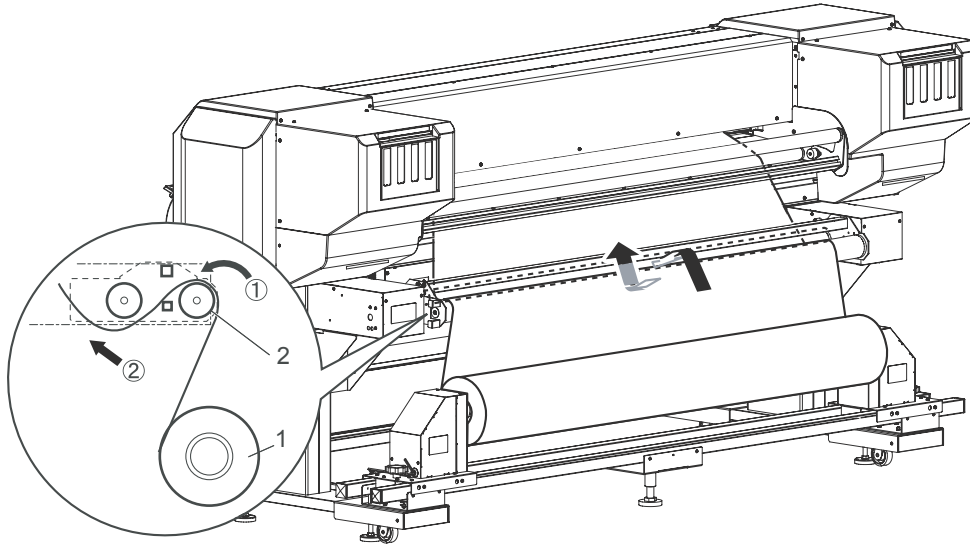
- a. When using roll media whose outer surface is printable



No.	Name
1	Roll media
2	Tension roller

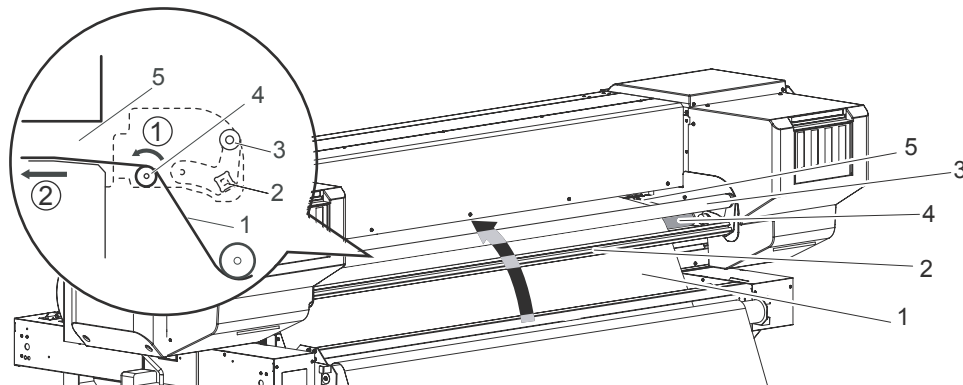
- b. When using roll media whose inner surface is printable

Any problems caused by printing to roll media with printable inner side will not be covered by the warranty.



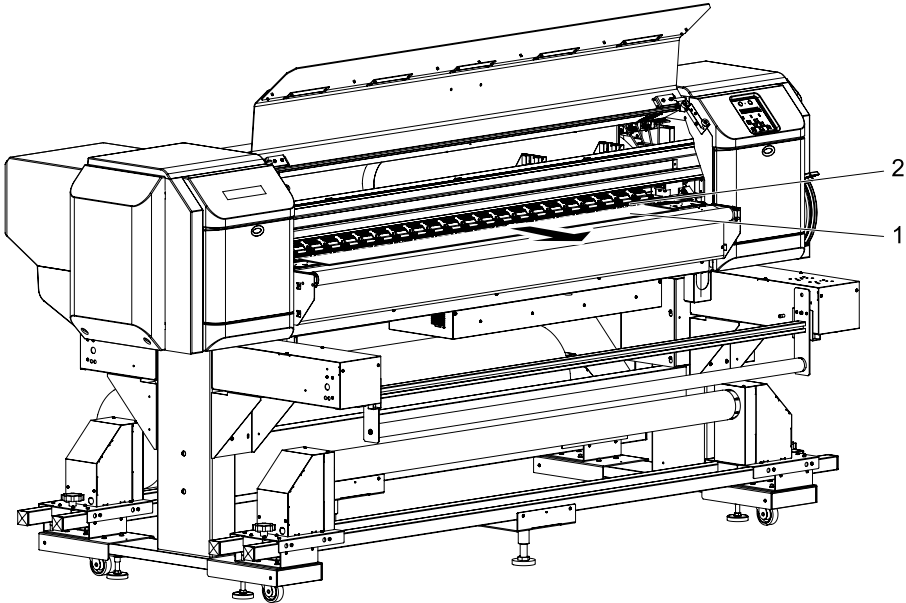
No.	Name
1	Roll media
2	Tension roller

- 19. Put through the media over the pressurizing roller of the printer to insert it in Media feed slot.



No.	Name
1	Roll media
2	Reinforcing rail
3	Tension roller
4	Pressurizing roller
5	Media feed slot

20. Pull the roll media out about 1 m from the front media feed slot which is located inside of the front cover.



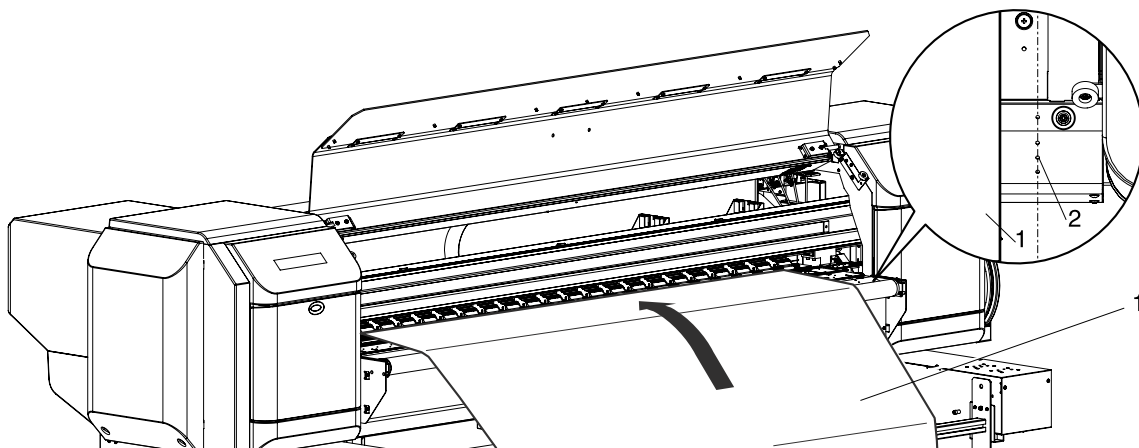
No.	Name
1	Media feed slot
2	Roll media

21. Set the manual feed operation switch to "REVERSAL", and rewind the roll media to remove any slack or slant.

NOTE

If you set the roll media free while rewinding, the roll media will fall out from the media feed slot on the rear of the printer.

Confirm that the right edge of the roll media does not go beyond the loading mark. If it does, it may affect print quality.



No.	Name
1	Roll media
2	Media loading mark

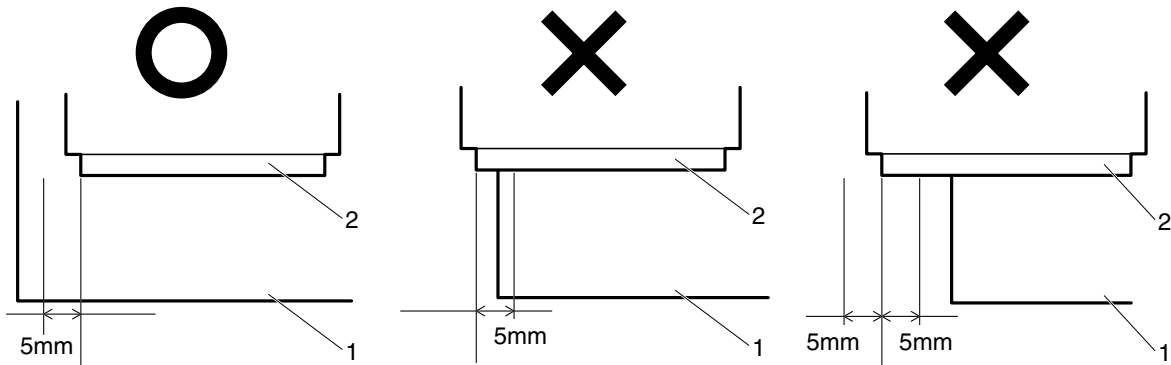
NOTE

- When setting the roll media, set both sides of the media at least 5 mm away from the edge of the pressurizing roller. Slippage or creases may occur during printing.

When setting the fabric media

NOTE

- When setting the fabric media, set both sides of the media at least 5 mm away from the edge of the pressurizing roller.
Slippage or creases may occur during printing.

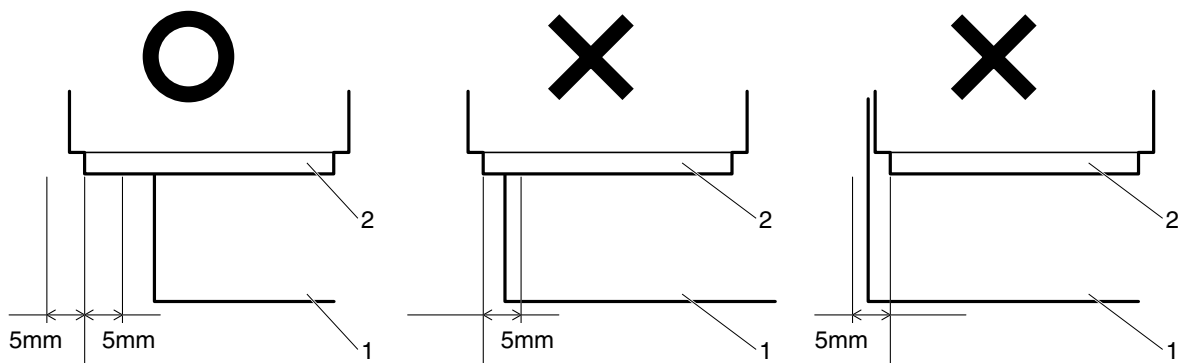


No.	Name
1	Fabric media
2	Pressurizing rollers

When setting the paper media

NOTE

- When setting the roll media, set both sides of the media at least 5 mm inside from the edge of the pressurizing roller.
Slippage or creases may occur during printing.

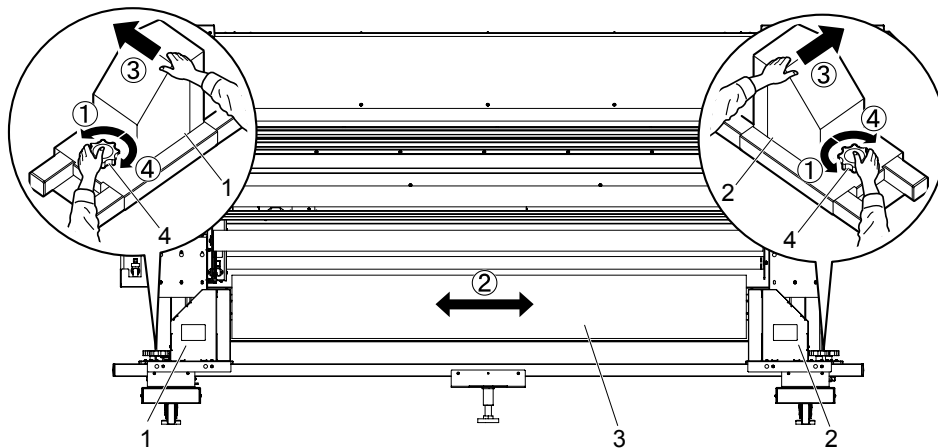


No.	Name
1	Roll media
2	Pressurizing rollers

22. If the edge of the roll media is set less than 5 mm from the edge of the pressurizing roller, follow the procedure below to adjust the position of the roll media.
- Loosen the fixing levers of the right and left feed units, and move the roll media to left or right.
 - After moving the roll media, fix it with fixing levers of the right and left feed units.

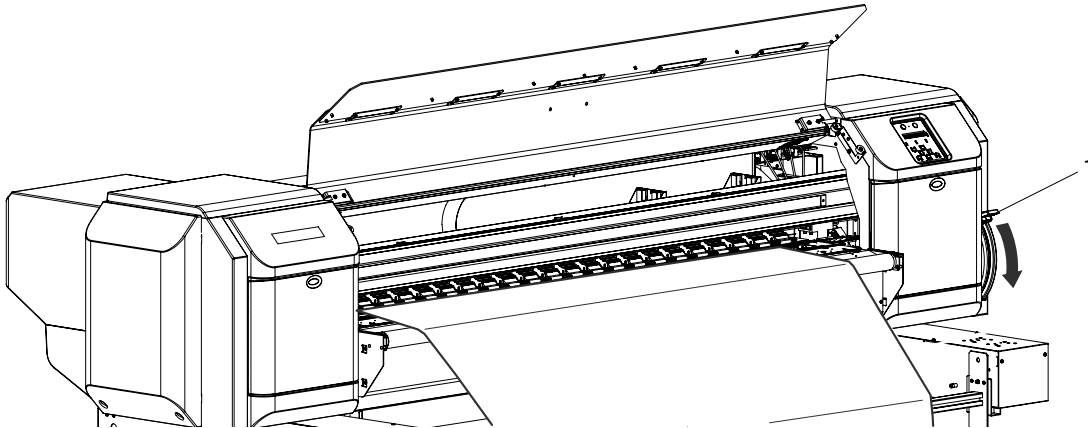
NOTE

- Fix the feed unit while pressing it against the printer.



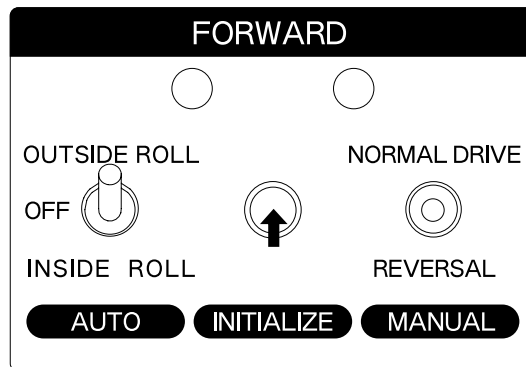
No.	Name
1	Feed unit (Left)
2	Feed unit (Right)
3	Roll media
4	Handle

23. Lower the media loading lever.

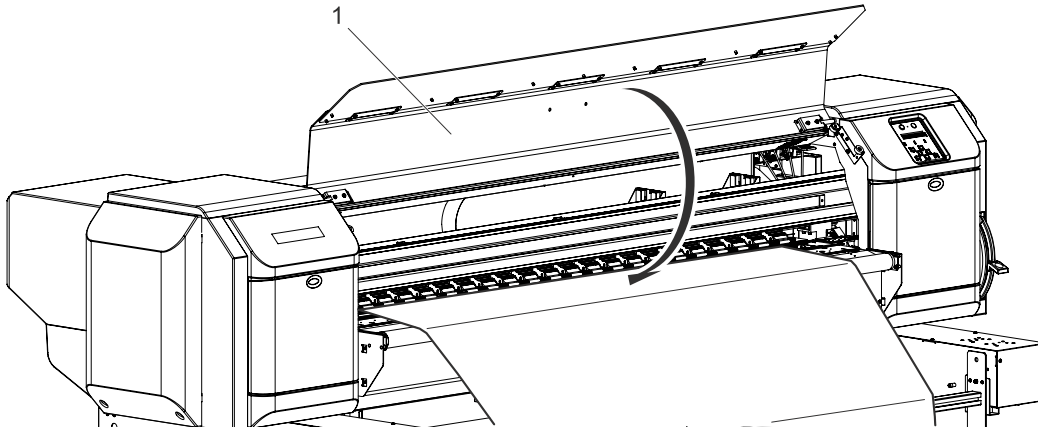


No.	Name
1	Media loading lever

24. Press the "INITIALIZE" button on the feeding unit.



25. Close the front cover.



No.	Name
1	Front cover

- The procedure for loading the roll media is complete.
- Next, set the roll media.
 ☞ 3.5.1.6 Setting roll media to the heavy take-up unit

3.5.1.6 Setting roll media to the heavy take-up unit

This section explains how to load roll media into the heavy take-up unit. Follow the procedure below to set the roll media into the heavy take-up unit.

NOTE

Load the roll media into the heavy take-up unit before setting it to the heavy take-up unit.
 ☞ 3.5.1.5 Loading roll media in the heavy take-up unit

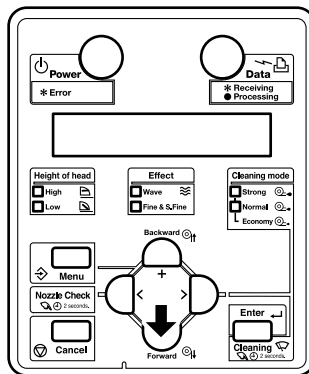
1. Attach the media tube to the scroller for the heavy take-up unit.
 ☞ 3.5.1.5 Loading roll media in the heavy take-up unit

NOTE

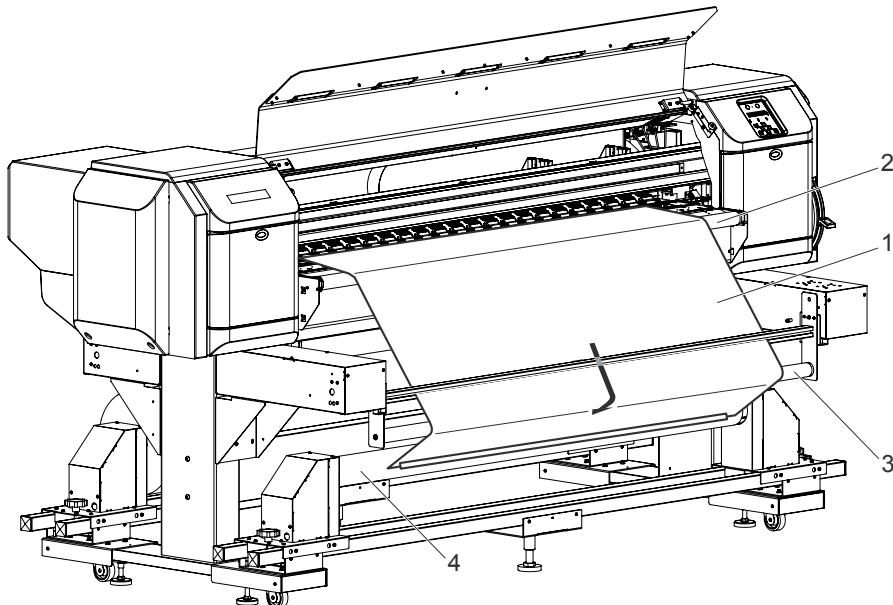
When using the heavy take-up unit, always use the media tube attached to the heavy take-up unit.

2. Attach the roll media to the scroller for the heavy take-up unit.
 ☞ 3.5.1.5 Loading roll media in the heavy take-up unit
3. Cut the front edge of the roll media, if necessary, to make it straight.
 ☞ 4.4.3 Cutting media

4. Press the [Forward] key on the operation panel, and feed the front edge of the roll media to the media tube of the take-up unit.



5. Pass the roll media over the front roller and tension roller, and fix it to the media tube at several locations with tapes.



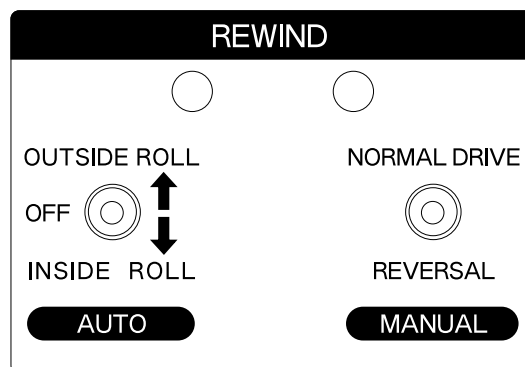
No.	Name
1	Roll media
2	Front roller
3	Tension roller
4	Media tube

NOTE

- When fixing to the media tube, make sure that both edges of the roll media are parallel with the media tube.
- When fixing the fabric media, use double-sided tape to fix the entire bottom edge of the media to the media tube.

6. Shift the take up shift switch as shown below.

- Outer winding: OUTSIDE ROLL
- Inner winding: INSIDE ROLL



- The procedure for setting the media is complete.

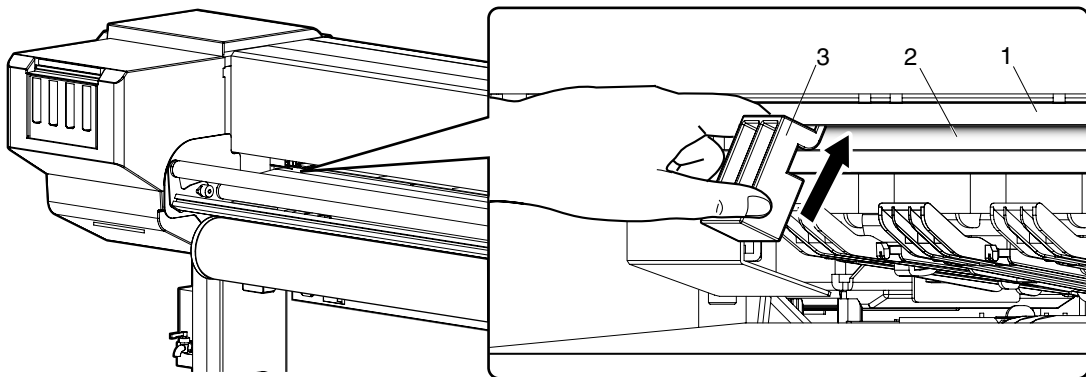
3.5.1.7 Installing Pressure Arm Stopper

NOTE

- When using the following media, if Pressure roller (later described) touches the edge of the media, use "Pressure arm stopper" included with the printer to lift up Pressure arm at the edge of the media. If it is not used, the media may run obliquely.
- Fabric media whose edges are frayed

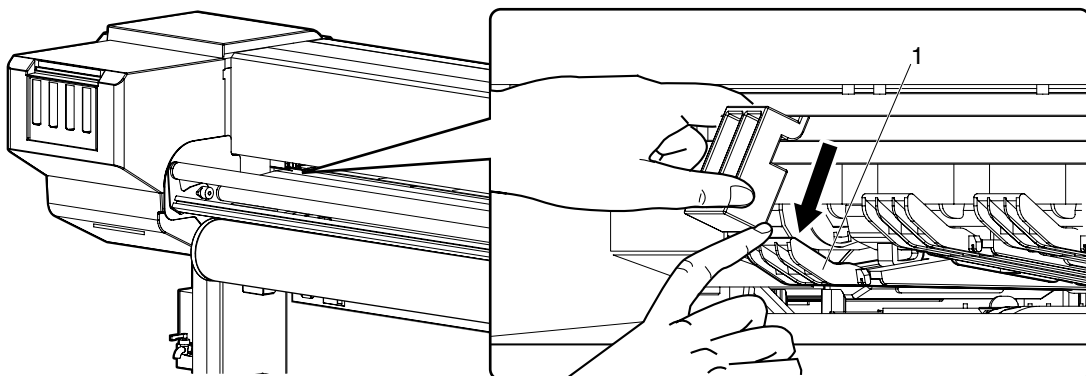
This section describes the procedure to install Pressure arm stopper.

1. Load the media.
☞ 3.5 Setting media
2. From the rear side of the printer, mount the tip of Pressure arm stopper in the groove behind Y rail.



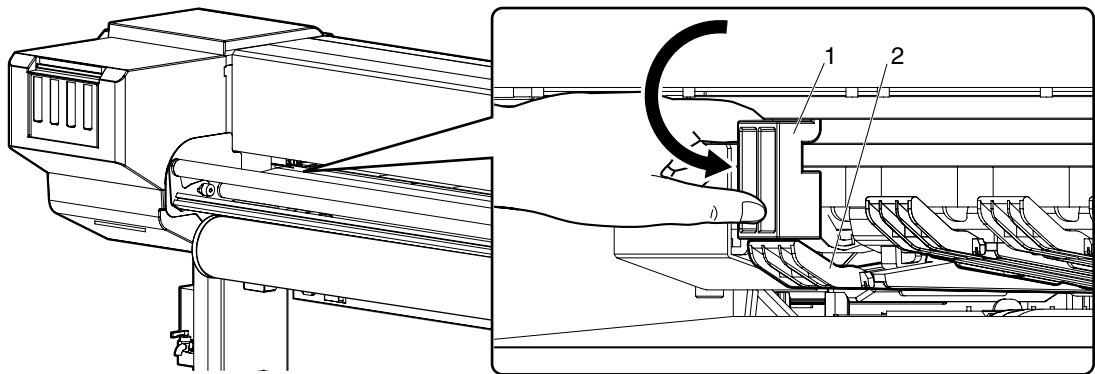
No.	Name
1	Y rail
2	Groove
3	Pressure arm stopper

3. Use your finger to push down Pressure arm touching the media edge.



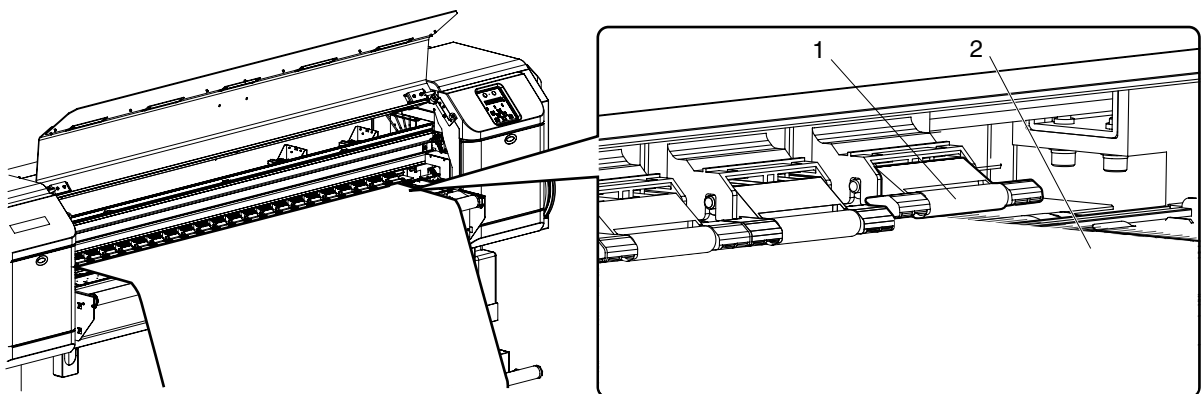
No.	Name
1	Pressure arm

4. Half-turn Pressure arm stopper downward and install it to Pressure arm.



No.	Name
1	Pressure arm stopper
2	Pressure arm

5. From the front side of the printer, check that Pressure roller of Pressure arm with Pressure arm stopper installed is not touching the media edge.



No.	Name
1	Pressure roller
2	Media

6. When Pressure roller is touching the other edge of the media as well, install Pressure arm stopper in the same way.

Installing Pressure arm stopper is complete.

3.5.1.8 Switching Position of Front Roller

This section explains how to switch the position of the Front roller.

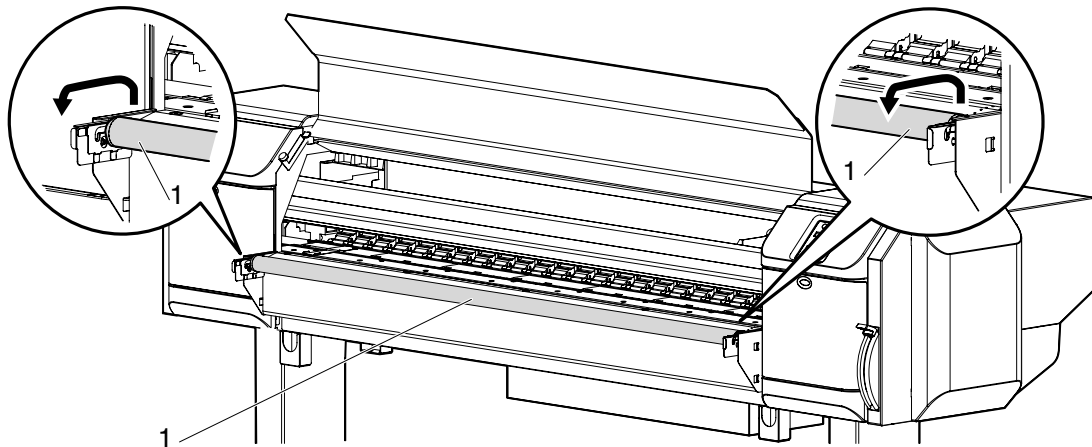
The Front roller is usually set away from you.

When you set the Media guide for transfer paper (optional), place the Front roller close to you.

1. Lift the Front roller up and pull it toward you.

NOTE

- Make sure to pull the Front roller symmetrically so that it will not slant.
- Pull out the Front roller until it is held firmly.



No.	Name
1	Front roller

2. When putting it back in place, repeat the above in reverse order.

3.5.2 Loading and setting cut sheet media

This section explains how to load and set cut sheet media.

NOTE

The following sizes of cut sheet media can be used with this printer.

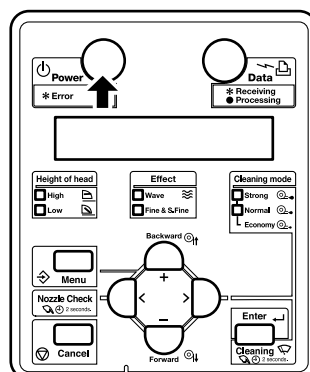
- Media width: Minimum 420mm

Follow the procedure below to set the cut sheet media.

NOTE


- When roll media is already set, wind it back, and then set the cut sheet media.
- If the ink gutter covers have been removed, reinstall them.

1. Turn the printer ON.



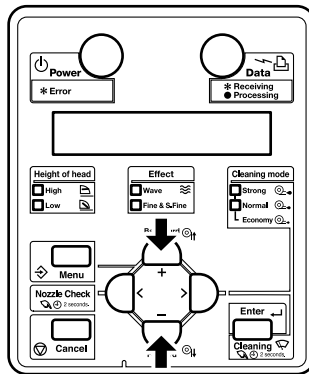
CAUTION

- **Do not operate the media loading lever during initial operation. The carriage portion may touch the pressurizing roller portion, and it causes a malfunction.**

- The printer starts the initializing operation.
 - "Paper End" is displayed on the operation panel.
2. From the Setup menu display, display the "Media Set" menu.
 4.3.1 Menu setup procedure

3. Press the [+] key or [-] key on the operation panel to select "Cut" and press the [Enter] key.
 - The display shifts to the Media Set menu.
 - Next, set the method for detecting media.

☞ 5.1.5 Media Set menu



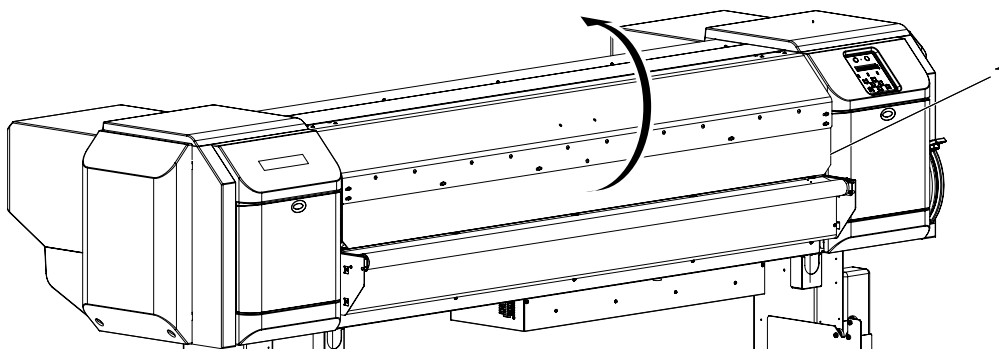
NOTE

- If you select "Roll" when setting the cut sheet media, the media may not be set correctly.

4. Press the [+] key or [-] key on the operation panel to select the detection method, and press the [Enter] key.

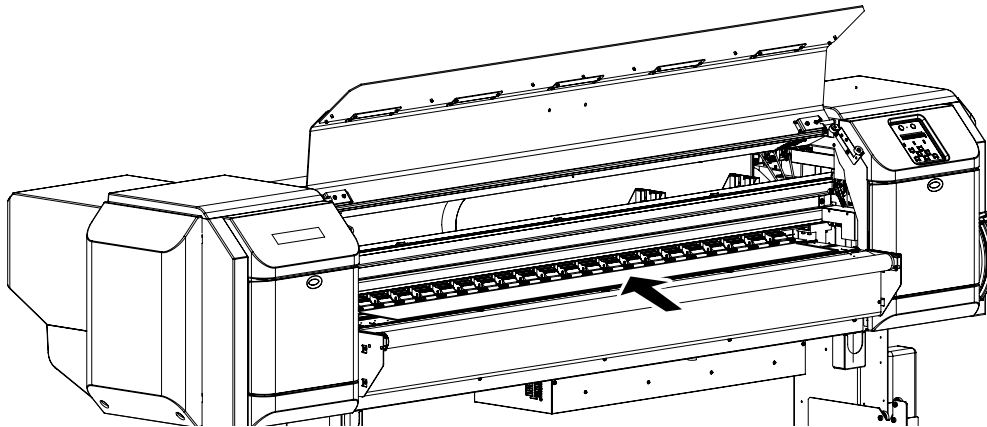
☞ 5.1.5.2 Media Set menu (Cut sheet)

5. Raise the media loading lever.
 - "Lever Up" is displayed on the operation panel.
6. Open the front cover.



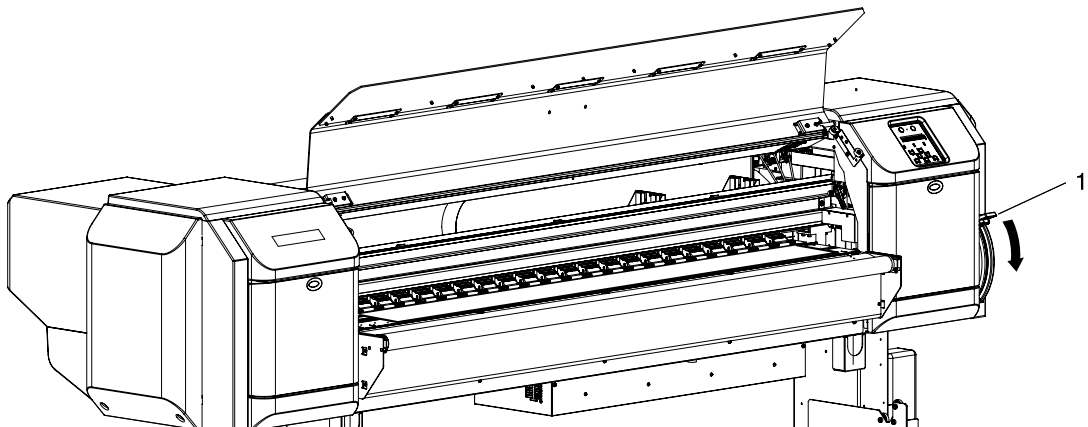
No.	Name
1	Front cover

7. Insert the cut sheet media into the media feed slot in the front of the printer.



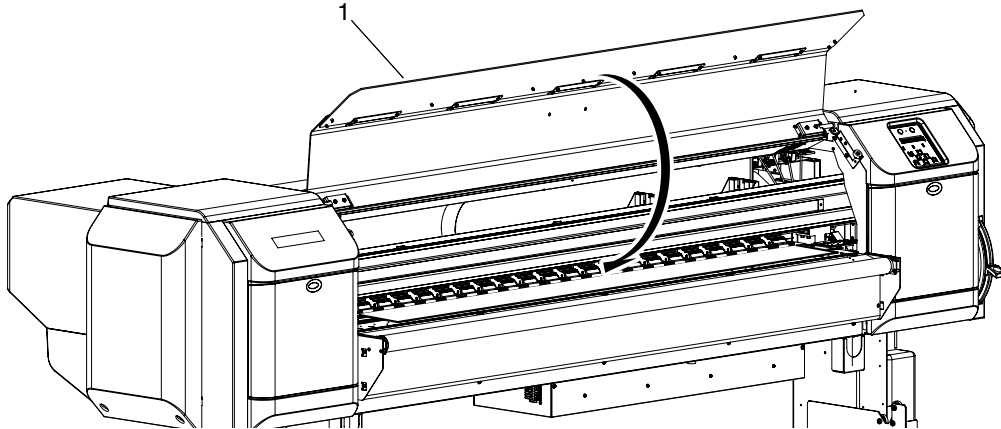
No.	Name
1	Cut sheet media
2	Media feed slot

8. Lower the media loading lever.



No.	Name
1	Media loading lever

9. Close the front cover.



No.	Name
1	Front cover

- The Media type setup menu is displayed on the operation panel.
- The procedure for setting the cut sheet media is complete.
- Next, set the media type.

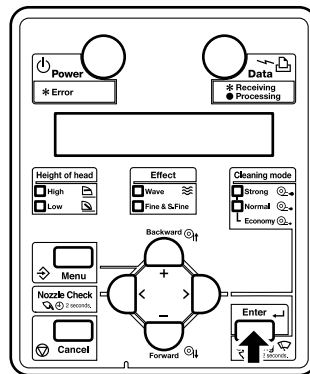
☞ 4.2.1 Media type

3.5.3 Setting media type

This section explains how to set the media type.

Follow the procedure below to set the media type.

1. Turn ON the printer and load media.
 - After setting the media, the display changes to the media type setup menu.
 - Refer to the following when setting media.
 - ☞ 3.5.1 Loading and setting roll media
 - ☞ 3.5.2 Loading and setting cut sheet media
2. Press the [+] key or [-] key to select the type of the loaded media.
3. Press the [Enter] key on the operation panel.



NOTE

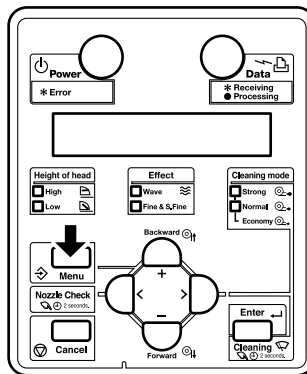
- If the following operations are performed in the media type setup menu, the printer starts media initial operation without specifying a media type.
- Pressing the [Cancel] key on the operation panel.
- No keys on the operation panel are pressed for ten seconds.

- The media type is set.
- "Media Initial" is displayed on the operation panel.
- The printer starts media initial operation.
- After media initial operation is complete, "Ready to Print" is displayed on the operation panel and the display shifts to Normal.
- This completes the media setting.

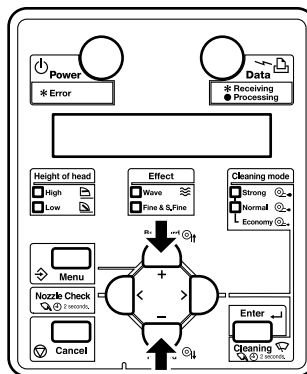
3.6 Test print

Follow the procedure below to perform Test printing to confirm that the printer works correctly.

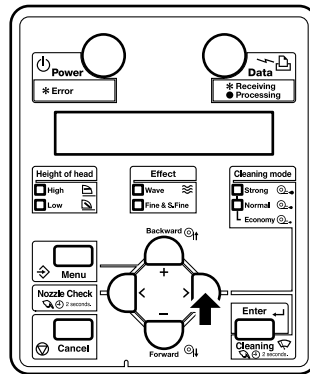
1. Turn ON the printer and load the roll media.
 ☞ 3.5.1 Loading and setting roll media
2. Confirm that the printer functions normally.
3. Display the Test Print menu on the operation panel.
 - a. Press the [Menu] key on the operation panel.



- "Menu 1: Setup>" is displayed on the operation panel.
 - The operation panel shifts to the Setup menu display.
- b. Press the [+] key or [-] key to select "Menu2: Test Print>".



- c. Press the [>] key on the operation panel.

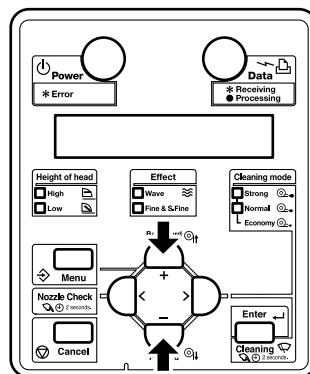


- "Test1: Nozzle Check" is displayed on the operation panel.
- The display shifts to the Test Print menu.

☞ 5.2 Test Print menu

4. Press the [+] key or [-] key on the operation panel to select an item for printing from the following items.

- Nozzle Check
- Mode Print
- Setup List
- ALL Setup List
- Palette

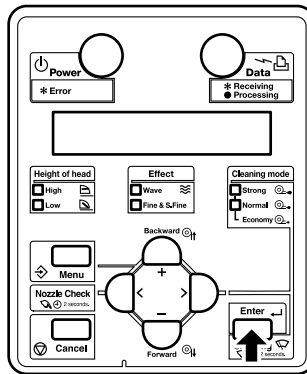


NOTE

- When "Mode5", "Mode6", "Mode9", or "Mode10" is set in the PrintMode menu, "Palette" is not displayed on the Test Print menu.

☞ 5.1.1.1 PrintMode menu


- Press the [Enter] key on the operation panel.



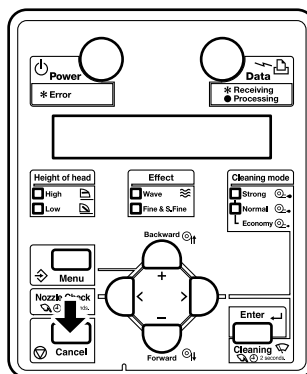
- Start performing Test Print for the selected item.

TIP

- Refer to the following for details on each of the print list items.

 3.6.1 Nozzle check ~ 3.6.4 Palette print

- Repeat step 4 to step 5 when performing test print for other items.
- Press the [Cancel] key on the operation panel to exit from test print.



- The operation panel returns to Normal.
- The procedure for test printing is complete.

3.6.1 Nozzle check

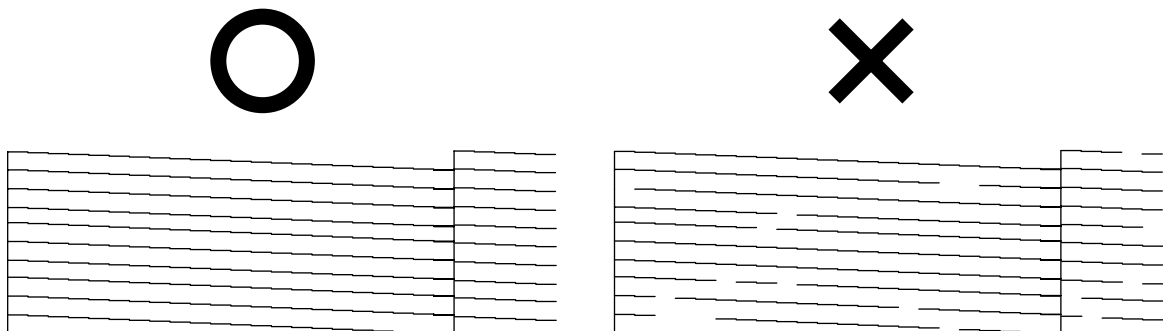
It is used to check whether there are any clogged heads, or missing or blurred prints.

NOTE

- If the nozzle check result indicates that the checked points are blurred or missing, clean the head.
☞ 6.2.3 Head cleaning
Perform the nozzle check once again at the end of the work.

TIP

- Refer to the following for printing procedure.
☞ 3.6 Test print




3.6.2 Mode print

Used to confirm the following printing conditions.


- Print mode
- Effect
- Adjustment value

TIP

- Refer to the following for printing procedure.

 3.6 Test print

2010/01/01 0:00 M12(360x360 1Pass Bi)-None1/PF Adjust:0/Dropsizе:Normal



3.6.3 Setup print


Used to check the current setup of the printer.

NOTE

- Paste the setup print on this page.
-

TIP

- User media and print mode lists are printed only when "ALL Setup List" is selected.
- Refer to the following for printing procedure.

 3.6 Test print

The following examples use the setup print on VJ-1628TD.

Setup List

Information		2009/01/01 0:00	
SerialNo.	= ***000001	!Error!	
Model	= VJ-1628TD	0: None []	2: None []
Memory Size	= 250MB	1: None []	3: None []
		4: None []	5: None []
Firmware M = V 1.00			
Firmware C = V 1.00			
Menu Setup		Height of head:Low Cleaning mode: Normal	
[Number][Select]Menu = Setup	[Number][Select]Menu = Setup	[15] [*]Auto Cleaning	WaitingTime = 30min
[1] [*]MediaType = Type 1	[4]Micro Adjust = Mode 12	PrintingTime = Off	Before Print = Off
[2]PF Length	[1]Initial Adj. Print = 497.0/500mm	[16] [*]Smart/C Status	Smart/C 0%
[2]Initial Adjust	[2]Confirm Adj. Print = OpuIse	Max 8000m	
[3]Vacuum Fan = Normal	[4]Micro Adj. Print = OpuIse	[17] [*]Roll Kind	= Off
[4]DropSize = Normal	[5]Micro Adjust = OpuIse	[18] [*]Longstone	
[2] [*]Effect = NoneI	[3]Vacuum Fan = Normal	[19] [*]OR Maintenance	
[3] [*]Flushing = Origin	[4]DropSize = Normal	[20] [*]Initialization	
[4] [*]SideMargin = 10mm	[2] [*]Effect = NoneI	[21] [*]Life Times	Head1 : E*****F
[5] [*]Media Set = Roll(Media Initial = Width)	[3] [*]Flushing = Origin	Head2 : E*****F	Pump : E*****F
[6] [*]MediaWidth = 1000mm	[4] [*]SideMargin = 10mm	OR Motor : E*****F	PF Motor : E*****F
[7] [*]Take-up = Type1	[5] [*]Media Set = Roll(Media Initial = Width)	[22] [*]IP Address	= 192.168.001.253
[8] [*]Feed = 1000mm	[6] [*]MediaWidth = 1000mm	[23] [*]Subnet Mask	= 255.255.255.000
[9] [*]Origin = Type1	[7] [*]Take-up = Type1	[24] [*]Gateway	= 192.168.001.254
[10] [*]Prevent Stick = Off	[8] [*]Feed = 1000mm	[25] [*]Language	= English
[11] [*]OR Movement = Data	[9] [*]Origin = Type1	[26] [*]Temperature	= Celsius[C]
[12] [*]Overwrite Ont = 1ont	[10] [*]Prevent Stick = Off	[27] [*]Ink Set	= 40ColorHead
[13] [*]Overwrite Wait = 0.0sec	[11] [*]OR Movement = Data	SleepModeTimer	= 6h
[14] [*]Media Slant = On	[12] [*]Overwrite Ont = 1ont		
	[13] [*]Overwrite Wait = 0.0sec		
	[14] [*]Media Slant = On		

<Media Type List>

Media Type	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7	Type 8	Type 9	Type10
Print Mode	Mode 12	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6
PF/Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
Dummy	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (1pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (2pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (3pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (4pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (8pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
Vacuum Fan	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
DropSize	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Media Type	Type11	Type12	Type13	Type14	Type15	Type16	Type17	Type18	Type19	Type20
Print Mode	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6
PF/Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
Dummy	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (1pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (2pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (3pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (4pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (8pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
Vacuum Fan	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
DropSize	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Media Type	Type21	Type22	Type23	Type24	Type25	Type26	Type27	Type28	Type29	Type30
Print Mode	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6	Mode 6
PF/Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
Dummy	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (1pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (2pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (3pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (4pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
PF/Micro (8pass)	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse	OpuIse
Vacuum Fan	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
DropSize	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal

3.6.4 Palette print

Used to compare pen colors used on the computer to the printing colors.

NOTE

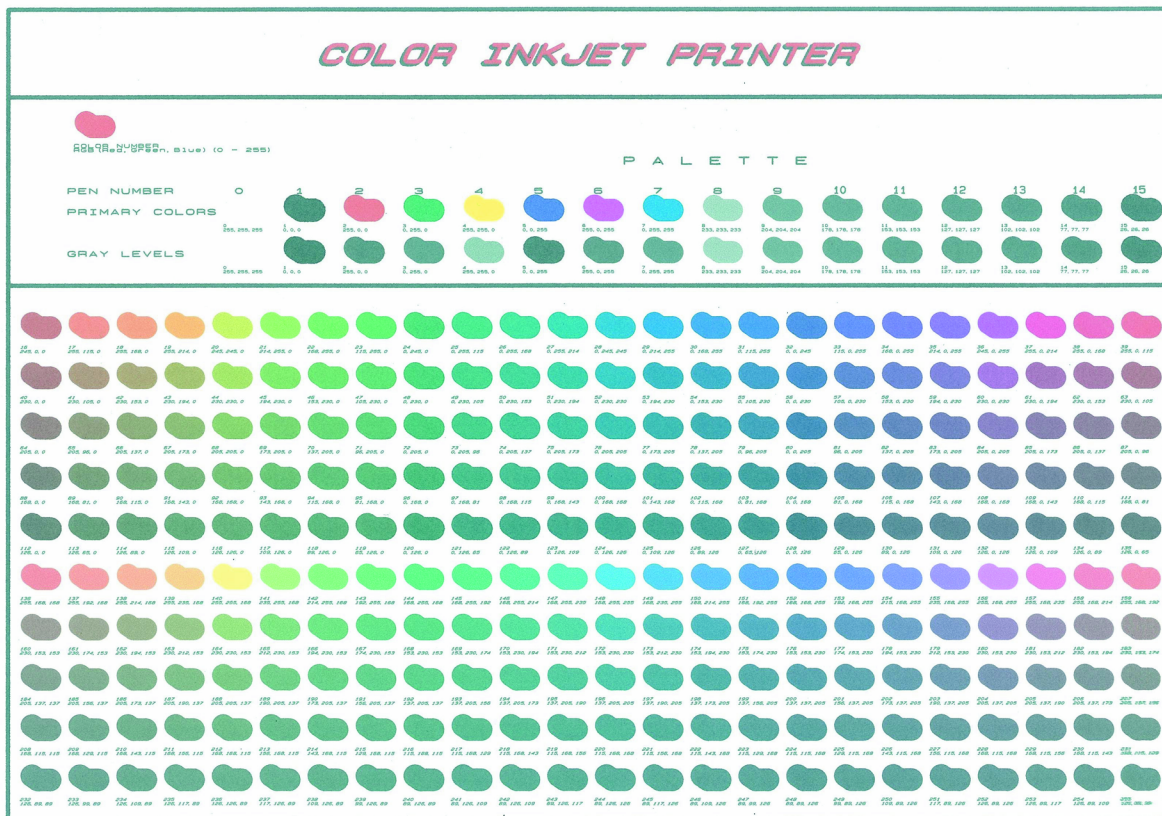
- When "Mode5", "Mode6", "Mode9", or "Mode10" is set in the PrintMode menu, "Palette" is not displayed on the Test Print menu.

☞ 5.1.1.1.1 PrintMode menu

TIP

- Refer to the following for printing procedure.

☞ 5.1.1.1.1 PrintMode menu



3.7 Adjust print

It is used for optimizing the quality of image prints (Alignment).

Alignment must be set every printing mode.

After selected the printing mode that you want to use, follow the procedure below to perform alignment.

NOTE

- This printer was adjusted at the factory shipment so that it obtains the optimum printing quality. Adjust the quality if the print quality changes after the installation environment or the media is changed.

1. Print out the confirmation pattern and check the amount of the head slant.
☞ 3.7.1 Confirmation Patterns
2. When the amount of the head slant is large, perform Coarse Adjustment.
☞ 3.7.2 Coarse Adjustment Patterns
3. When the amount of the head slant small, perform Micro Adjustment.
☞ 3.7.3 Micro Adjustment Patterns

NOTE

- When it is difficult to see the size of the head slant, perform Coarse Adjustment first.

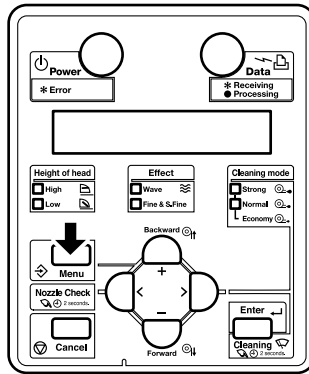
4. Print out the confirmation pattern again and check if Head is adjusted.
☞ 3.7.1 Confirmation Patterns
5. If Head is not adjusted yet, return to the step 2.

NOTE

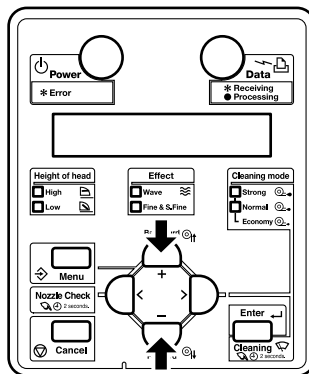
- When Coarse Adjustment did not adjust Head, perform Micro adjustment.

3.7.1 Confirmation Patterns

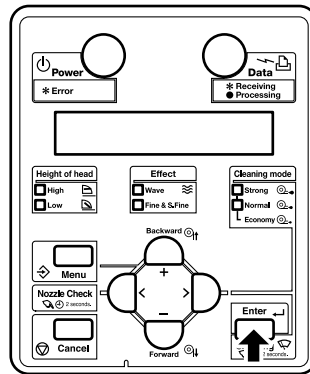
1. Turn ON the printer and load the roll media.
 ↳ 3.5.1 Loading and setting roll media
2. Display the Adjust Print menu on the operation panel.
 - a. Press the [Menu] key on the operation panel.



- "Menu 1: Setup>" is displayed on the operation panel.
 - The operation panel shifts to the Setup menu display.
- b. Press the [+] key or [-] key to select "Set1: MediaType>".

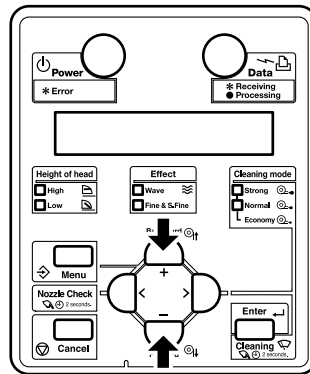


- c. Press the [Enter] key on the operation panel.

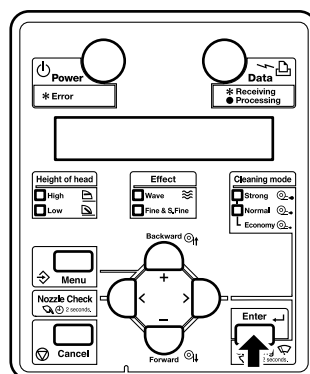


- "Media: Type**" (** indicates a number between 1 to 30) is displayed on the operation panel.

- d. Use the [+] key or [-] key on the operation panel to select the media type you would like to set.

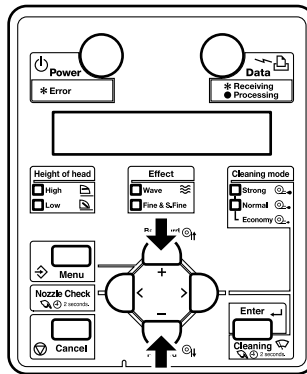


- e. Press the [Enter] key on the operation panel.

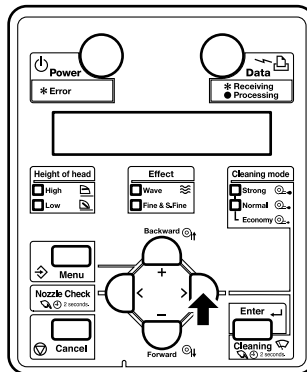



- "**>1: PrintMode" is displayed on the operation panel.

- f. Press the [+] key or [-] key to select "**>2: Adjust Print>".

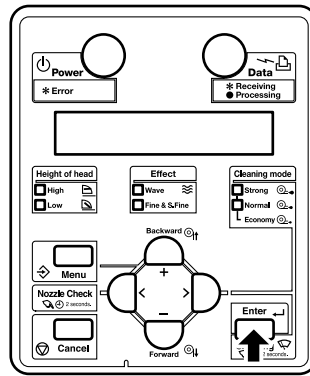


- g. Press the [>] key on the operation panel.

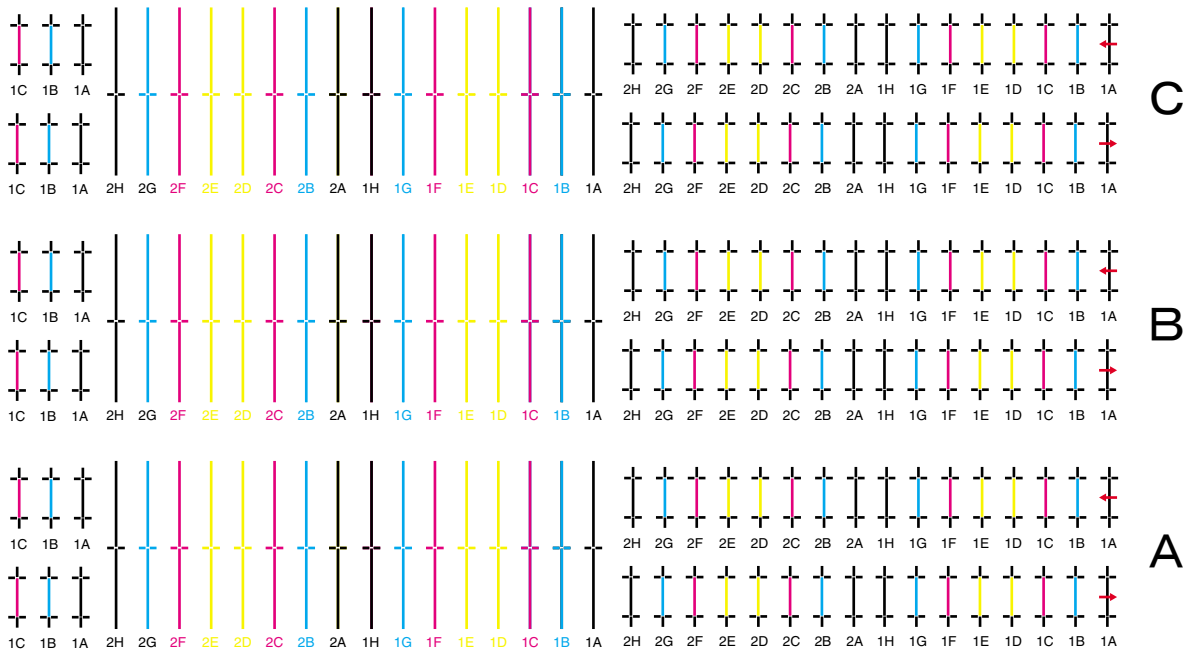


- "Adj.1: ConfirmPattern" is displayed on the operation panel.
- The display enters the Adjust Print menu.
 5.3 Adjust Print menu

3. Press the [Enter] key on the operation panel.



- A confirmation pattern for print quality adjustment is printed.
- 3 confirmation patterns A to C will be printed.



- The above illustration is the confirmation pattern for 8Color ink set. The confirmation patterns differ depending on the ink set as follows.

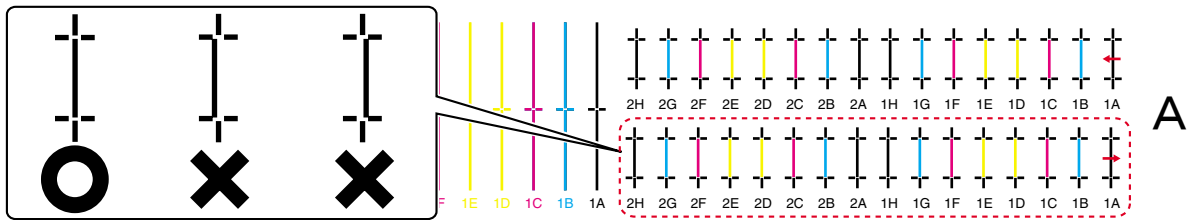
Ink sett	Confirmation pattern
8Color	Prints all patterns
6Color	Does not print patterns 2C through 2F shown above
4Color Single	Head 1: Above 2A to 2H are not printed
	Head 2: Above 1A to 1H are not printed
4Color Double	Prints all

NOTE

- For 4Color Single, follow the Head selection of the media type currently selected.

- Once the confirmation pattern is printed, the display on the operation panel returns to "Adj1.ConfirmPattern".

4. Confirm that the confirmation pattern printing result is as follows.
Check each of the confirmation patterns A to C.



- a. When the printing result is ○:

You do not need perform Alignment.
The procedure for Alignment is complete.

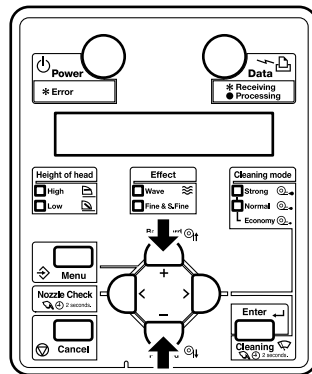
- b. When the printing result is ×:

You need to perform Alignment.
Proceed to "3.7.2 Coarse Adjustment Patterns" or "3.7.3 Micro Adjustment Patterns".

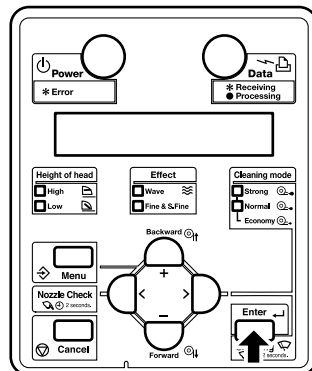
3.7.2 Coarse Adjustment Patterns

Print out the Coarse Adjustment pattern and register the set value.

1. In the same way as the step 2 of "3.7.1 Confirmation Patterns", change the display on the operation panel to Adjust Print Menu.
2. Press the [+] key or [-] key on the operation panel to select "Adj.2: Coarse Adj.Ptn".



3. Press the [Enter] key on the operation panel.



- The printer starts printing Coarse Adjust patterns.
- For Adjust print patterns, the same pattern will be printed repeatedly on both ends and the center of the paper.
- After the adjust print pattern is printed, "Pattern(1A/1H): *" (* represents a number from 1 to 7) is displayed on the operation panel.
Display of input window differs depending on the ink set as shown in the following table.

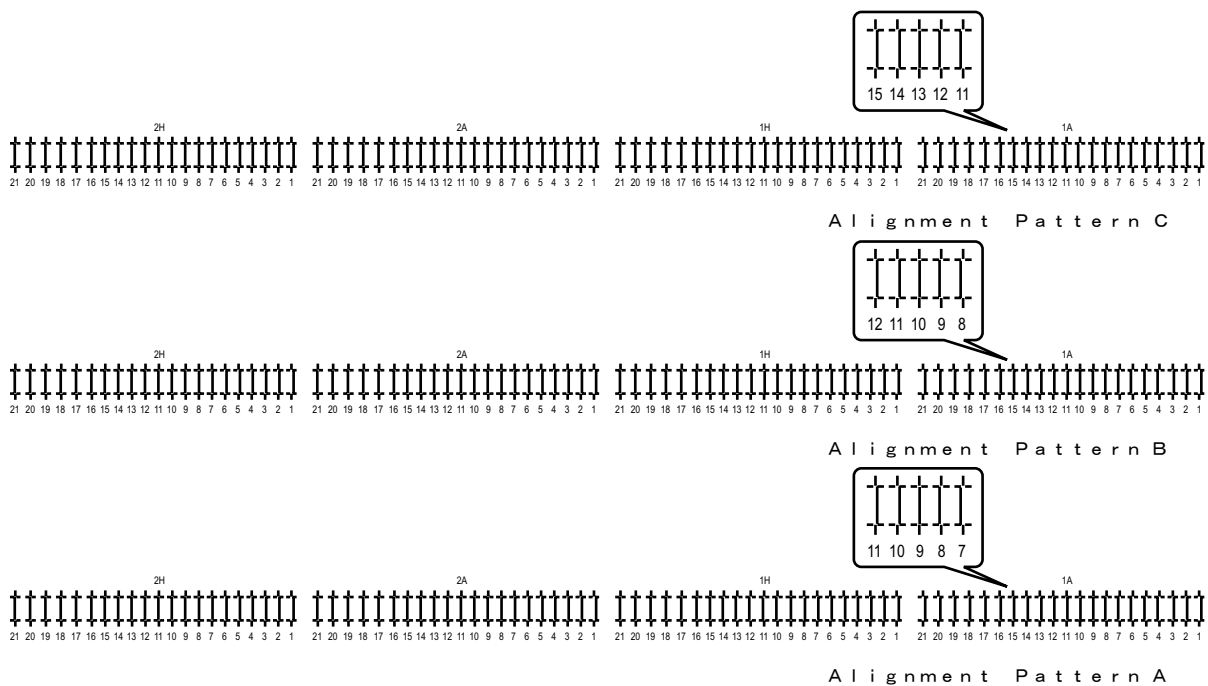
Ink Set	Entry Screen
8Color	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"
6Color	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"
4Color Single	Head 1: "Pattern(1A/1H): *" only
	Head 2: "Pattern(2A/2H): *" only
4Color Double	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"

4. From Coarse Adjust Patterns 1A and 1H, select the number with the least misalignment from number 1 to 21.

- For the following print sample "Adjust print pattern A", select "9".
- For the following print sample "Adjust print pattern B", select "10".
- For the following print sample "Adjust print pattern C", select "13".

NOTE

- "11" indicates the current set value.
- If the number with the least misalignment is different between 1A and 1H, select one of them.



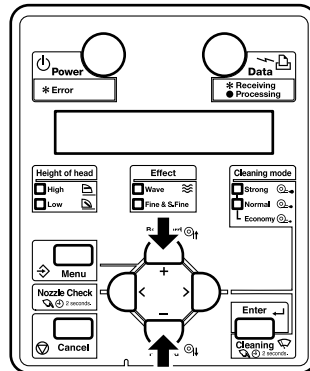
- The above illustration is the confirmation pattern for 8Color ink set. The confirmation patterns differ depending on the ink set as follows.

Ink Set	Confirmation Pattern
8Color	Prints all
6Color	Prints all
4Color Single	Head 1: Above 2A to 2H are not printed
	Head 2: Above 1A to 1H are not printed
4Color Double	Prints all

NOTE

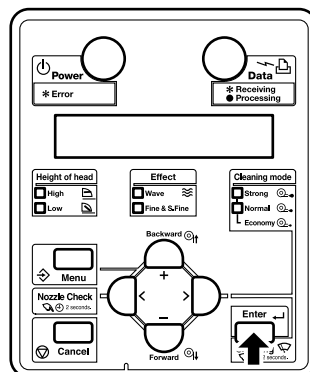
- For 4Color Single, follow the Head selection of the media type currently selected.

- Press the [+] key or [-] key to enter the number that you selected in Step 4.

**NOTE**

- If you press the [Cancel] key on the operation panel, the display returns to "Adj1. ConfirmPattern" without entering the set value.

- Press the [Enter] key on the operation panel.



- The set value of "Pattern A (1A/1H): *" is determined.
- When using 8Color or 6Color ink set, continue the procedure to enter and determine "Pattern A (2A/2H): *".
- From the Coarse Adjust patterns 2A and 2H of the step 4, select the number with the least misalignment from number 1 to 21.
- If the number with the least misalignment is different between 2A and 2H, select one of them.

NOTE

- If you press the [Cancel] key on the operation panel while "PatternA (2A/2H): *" is displayed, the entry screen will go back to "PatternA (1A/1H): *".

7. In the same way, enter "PatternB (1A/1H): *".

- Press the [Enter] key to determine it.
- If the ink color combination is "8color" or "6color", continue to enter "PatternB (2A/2H): *" and determine it.

8. In the same way, enter "PatternC (1A/1H): *".

- If the ink color combination is "8color" or "6color", continue to enter "PatternC (2A/2H): *" and register it.
- Once all set values have been entered and the [Enter] key is pressed, the set values of "PatternA" to "PatternC" will be registered.
- The display of the operation panel returns to "Adj1. ConfirmPattern".

3.7.3 Micro Adjustment Patterns

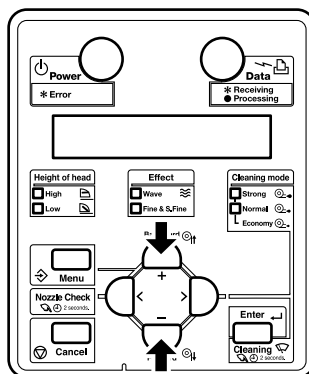
For Micro Adjustment Patterns, there are "Adjust Pattern All" which is used to adjust all patterns and "Adjust print Pattern A", "Adjust print Pattern B", and "Adjust print Pattern C", which are used to adjust A to C patterns separately.

From the confirmation pattern result, if adjustment for all patterns is not necessary, adjust separately.

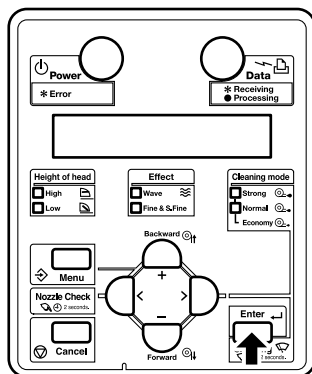
3.7.3.1 Adjustment Pattern ALL

Print out Micro Adjustment Pattern ALL, and register the set value.

1. In the same way as the step 2 of "3.7.1 Confirmation Patterns", change the display on the operation panel to Adjust Print Menu.
2. Use the [+] key or [-] key on the operation panel to select "Adj3. : Adj. PatternALL".



3. Press the [Enter] key on the operation panel.



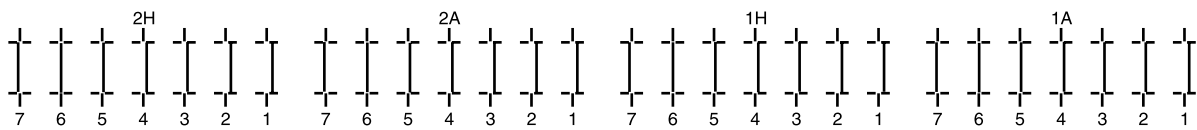
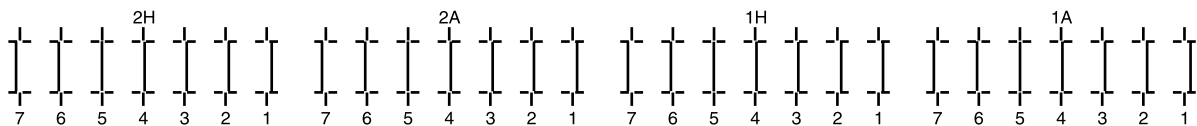
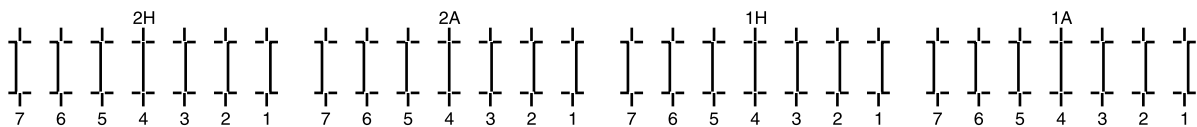
- Start Adjust print pattern printing.
- 3 pattern prints of "Adjust print pattern A" to "Adjust print pattern C" are printed for Adjustment pattern print. Enter each adjustment value.
- For Adjust print patterns, the same pattern will be printed repeatedly on both ends and the center of the paper.
- After the adjustment pattern is printed, "Pattern(1A/1H): *" (* represents a number from 1 to 7) is displayed on the operation panel.
Display of input window differs depending on the ink set as shown in the following table.

Ink Set	Entry Screen
8Color	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"
6Color	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"
4Color Single	Head 1: "Pattern(1A/1H): *" only
	Head 2: "Pattern(2A/2H): *" only
4Color Double	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"

4. Check the print result of both ends and the center of the paper, and from Adjust print patterns 1A and 1H, select the number with the least misalignment from number 1 to 7.
- Select "4" in the following printing sample of "Adjust print pattern A".
 - Select "5" in the following printing sample of "Adjust print pattern B".
 - Select "6" in the following printing sample of "Adjust print pattern C".

NOTE

- "4" indicates the current set value.
- If the number with the least misalignment is different between 1A and 1H, select one of them.

**A l i g n m e n t P a t t e r n C****A l i g n m e n t P a t t e r n B****A l i g n m e n t P a t t e r n A**

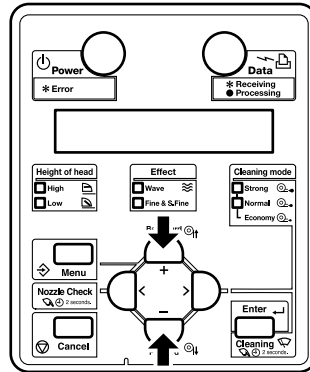
- The above illustration is the confirmation pattern for 8Color ink set. The confirmation patterns differ depending on the ink set as follows.

Ink Set	Confirmation Pattern
8Color	Prints all
6Color	Prints all
4Color Single	Head 1: Above 2A to 2H are not printed
	Head 2: Above 1A to 1H are not printed
4Color Double	Prints all

NOTE

- For 4Color Single, follow the Head selection of the media type currently selected.

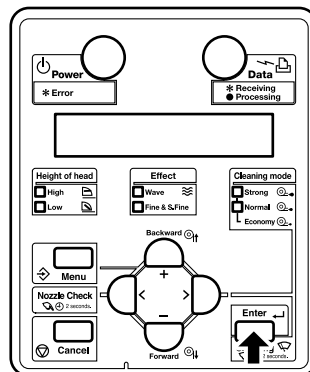
5. Press the [+] key or [-] key to enter the number that you selected in Step 4.



NOTE

- If you press the [Cancel] key on the operation panel, the display returns to "Adj1. ConfirmPattern" entering the set value.

6. Press the [Enter] key on the operation panel.



- The set value of "PatternA (1A/1H): *" is determined.
- When using 8Color or 6Color ink set, continue the procedure to enter and determine "Pattern A (2A/2H): *".
- From the Coarse Adjust patterns 2A and 2H of the step 4, select the number with the least misalignment from number 1 to 7.
- If the number with the least misalignment is different between 2A and 2H, select one of them.

NOTE

- If you press the [Cancel] key on the operation panel while "Pattern A (2A/2H): *" is displayed, the entry screen will go back to "Pattern A (1A/1H): *".

7. In the same way, enter "Pattern B (1A/1H): *".

- Press the [Enter] key to determine it.
- When using 8Color or 6Color ink set, continue the procedure to enter and determine "Pattern B (2A/2H): *".

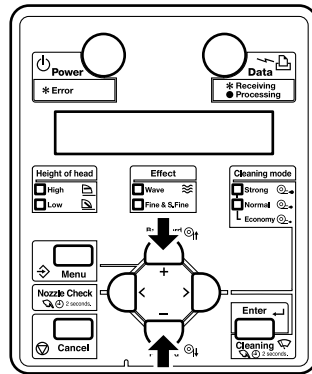
8. In the same way, enter "Pattern C (1A/1H): *".

- When using 8Color or 6Color ink set, continue the procedure to enter and determine "Pattern C (2A/2H): *".
- Once all set values have been entered and the [Enter] key is pressed, the set values of "Adjust print pattern A" to "Adjust print pattern C" will be registered.

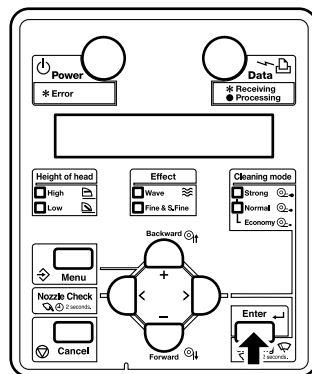
3.7.3.2 Separate Adjust Pattern

This section describes the procedure to adjust "Adjust print Pattern A" only.

1. In the same way as the step 2 of "3.7.1 Confirmation Patterns", change the display on the operation panel to Adjust Print Menu.
2. Press the [+] key or [-] key on the operation panel to select "Adj4. : Adj. PatternA".



3. Press the [Enter] key to determine it.



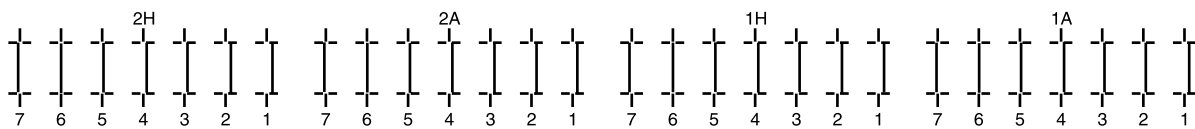
- Start Adjust print pattern printing.
For Adjust print patterns, the same pattern will be printed repeatedly on both ends and the center of the paper.
- After the Adjust print pattern is printed, "Pattern(1A/1H): *" (* represents a number from 1 to 7) is displayed on the operation panel.
Display of input window differs depending on the ink set as shown in the following table.

Ink Set	Entry Screen
8Color	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"
6Color	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"
4Color Single	Head 1: "Pattern(1A/1H): *" only
	Head 2: "Pattern(2A/2H): *" only
4Color Double	"Pattern(1A/1H): *" and "Pattern(2A/2H): *"

4. Check the print result of both ends and the center of the paper, and from Adjust print patterns 1A and 1H, select the number with the least misalignment from number 1 to 7.
- Select "6" in the following printing sample of "Adjust print pattern A".

NOTE

- "4" indicates the current set value.
- If the number with the least misalignment is different between 1A and 1H, select one of them.

**A l i g n m e n t P a t t e r n A**

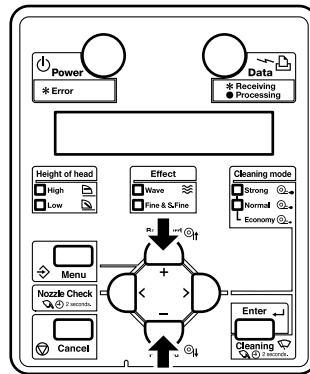
- The above illustration is the confirmation pattern for 8Color ink set. The confirmation patterns differ depending on the ink set as follows.

Ink Set	Confirmation Pattern
8Color	Prints all
6Color	Prints all
4Color Single	Head 1: Above 2A to 2H are not printed
	Head 2: Above 1A to 1H are not printed
4Color Double	Prints all

NOTE

- For 4Color Single, follow the Head selection of the media type currently selected.

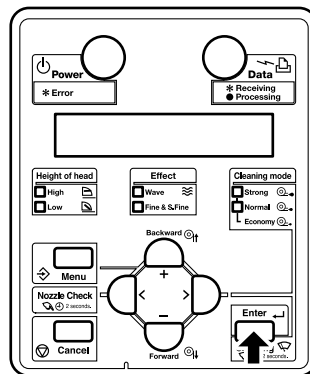
5. Press the [+] key or [-] key to enter the number that you selected in Step 4.



NOTE

- Press the [Cancel] key to return to "Adj1. ConfirmPattern".

6. Press the [Enter] key on the operation panel.



- The set value of "Pattern A (1A/1H): *" is determined.
- When using 8Color or 6Color ink set, continue the procedure to enter and determine "Pattern A (2A/2H): *".
- From the Coarse Adjust patterns 2A and 2H of the step 4, select the number with the least misalignment from number 1 to 7.
- If the number with the least misalignment is different between 2A and 2H, select one of them.

NOTE

- If you press the [Cancel] key on the operation panel while "Pattern A (2A/2H): *" is displayed, the entry screen will go back to "Pattern A (1A/1H): *".

- Once all set values have been entered and the [Enter] key is pressed, the set values of "Adjust print pattern A" will be registered.
- The display on the operation panel returns to "Adj1. ConfirmPattern".

3.8 Connecting the printer to PC

This section explains how to connect the printer and a PC.

3.8.1 System requirements

The following are the system requirements for this printer.

Operating system	Windows 2000 Professional, Windows XP
CPU	Pentium III processor 1 GHz or more
Memory (RAM)	512 MB or more
Hard disk free space	10 GB or more

NOTE

- The required memory varies depending on the application software or the print data type.
- A large hard disk and memory are recommended.

3.8.2 Preparing cables

The printer is equipped with a network interface for connecting with a PC. You need a network interface cable to connect a PC with this printer. Prepare the cable depending on the PC that it will be connected to.

TIP

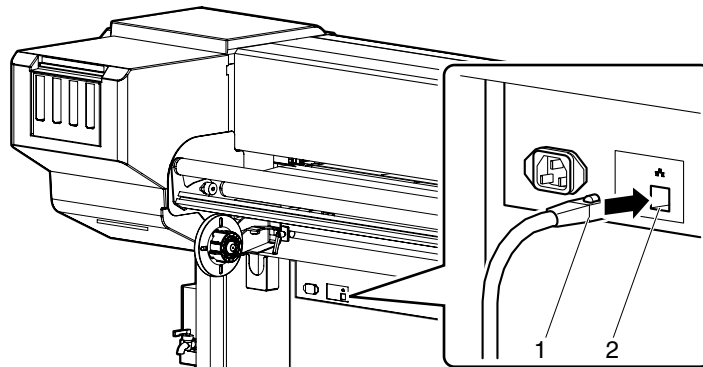
- About connecting a network interface cable, refer to "3.8.3 Connecting a network interface cable".
- For the recommended cable specifications, refer to "8.2 Interface specification".

3.8.3 Connecting a network interface cable

This section explains how to connect a network interface cable.

Follow the procedure below to connect this printer to your PC.

1. Turn OFF both the printer and PC.
2. Insert the network interface cable into the network interface connector located on the right of the printer.



No.	Name
1	Network interface cable
2	Network interface cable connector

3. Connect the other connector of the network interface cable to your PC.

TIP

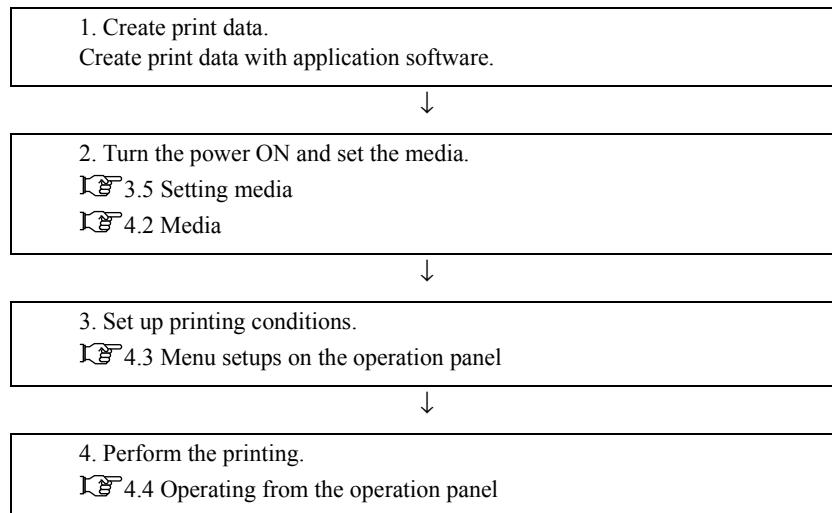
- About connecting to your PC, refer to the operation manual included with the PC.
- For network setting on the side of the printer, refer to "4.3.2 Panel setup menu overview".

4 Handling the printer

This chapter explains how to handle the printer.

4.1 Print flow chart

The following flow chart illustrates the procedure to perform printing with the printer. Refer to each section as required.



NOTE

- Do not open the front cover during printing.
If the front cover is opened, printing will be interrupted.
Printing restarts if you close the front cover. However, you are not guaranteed to have high print quality.
-

4.2 Media

This section explains details of available media for this printer.

4.2.1 Media type

The type and quality of media greatly influence the print result. Select the appropriate media according to the usage.

NOTE

- For details of the recommended media, contact your local MUTOH dealer.
 - If failures or malfunctions of the printer occur by the use of media that is not dedicated:
 - The printer will not be covered by the warranty and repair expenses will be paid by the customer.
 - For details, refer to the following manuals.
 - ☞ 6 Maintenance
 - ☞ 7 Troubleshooting
 - To request a repair, contact your local MUTOH dealer.
-

TIP

- When printing on media that is not recommended,
 - Refer to the media manual or ask where you purchased the media for information on media types and appropriate settings for this printer.
 - Set the print quality according to "5.1.1 MediaType menu".
-

4.2.2 Cautions on handling media

Note the following points when handling the media.

NOTE

- Use recommended media under an appropriate environment.
The appropriate temperature and humidity for printing are as follows.

	Temperature	Humidity
Guaranteed range of printing accuracy	22°C to 30°C	40% to 60%
Change rate	Within 2°C per hour	Within 5 % per hour

- Do not use media which is folded, cut, or torn.
- The size of media can change according to changes in humidity in the printing environment. Before using media, leave media for 30 minutes in the printing environment to adapt it to the environment.
Performing printing without adapting media to the printing environment may cause media jams due to gaps or wrinkles in the media.
Print quality is also affected.
- Do not touch the print side.
Moisture and oil on your hands may affect the print quality.
- Do not leave media set in the printer for a long time.
Some media has a tendency to bend, causing media jams and degradation of print quality.
Avoid using such media especially in winter, in dry conditions, and when printing formal documents.
- Do not discard the individual box and bag. Use them for storing media.

4.2.3 Precaution on storing media

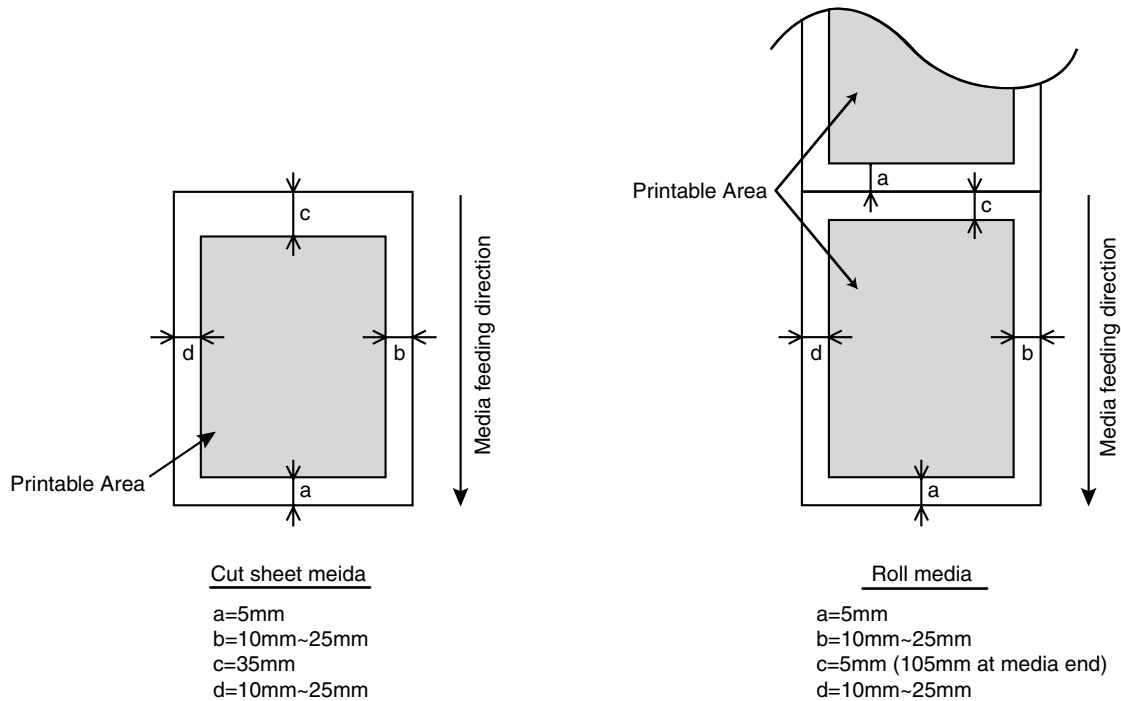
Note the following points on storing media.

NOTE

- Avoid high temperature, high humidity, and direct sunlight when storing media.
- After removing the unused roll media from the feed unit, wind it properly. Then wrap it with an individual bag and store it in an individual box.
- Keep the media dry.

4.2.4 Printing area

The printable area of this printer is as follows.



4.2.5 Head height adjustment

Printing with high printing rate or using strongly-curved media can cause print heads to rub. Changing the distance from the print head surface to media (head height) may allow you to avoid head rub.

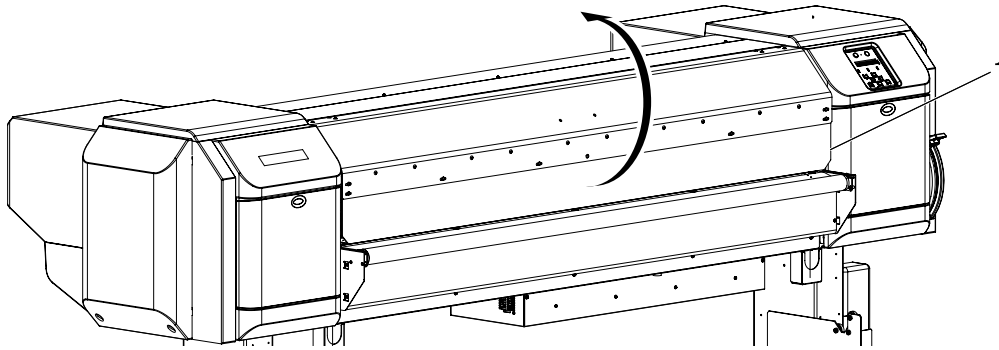
Head height can be changed to three levels. Follow the procedure below to change the head height.

4.2.5.1 When setting the head height to High

NOTE

- If the head height adjustment lever is changed, high print quality is not guaranteed.
- Do not open the front cover or change the head height during printing. If the head height is changed, the alignment will be changed and high print quality will not be guaranteed.

1. Open the front cover.

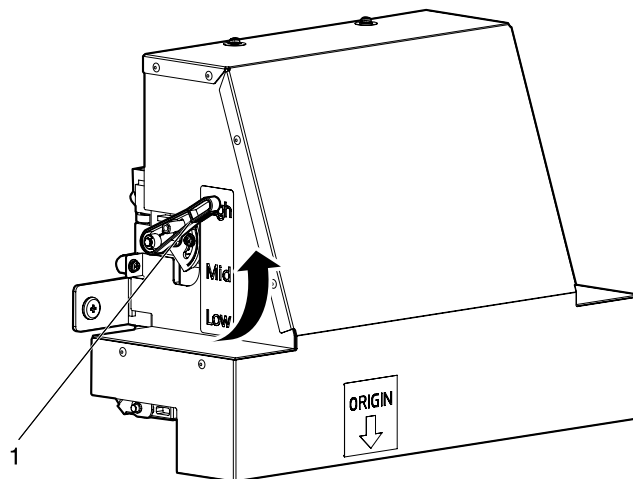


No.	Name
1	Front cover

2. Change the head height by moving the head height adjustment lever (orange).

NOTE

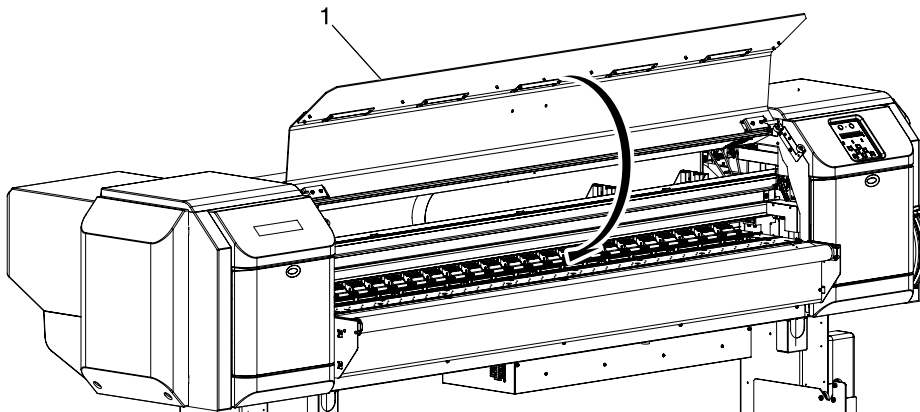
- Do not raise the head height adjustment lever higher than the following position. Doing so may damage the printer.



No.	Name
1	Head height adjustment lever

- The High lamp on the operation panel lights up in green.

3. Close the front cover.



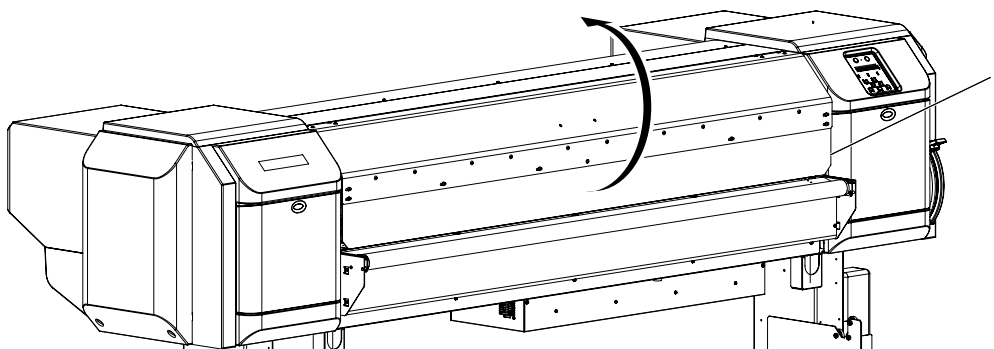
No.	Name
1	Front cover

4.2.5.2 When setting the head height to Mid

NOTE

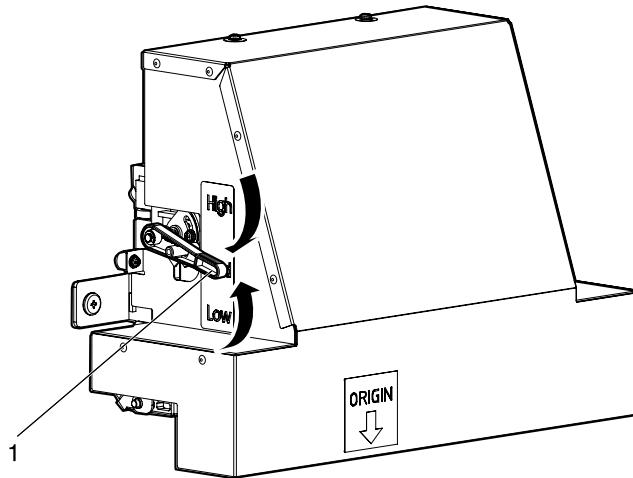
- Do not open the front cover or change the head height during printing. If the head height is changed, the alignment will be changed and high print quality will not be guaranteed.

1. Open the front cover.



No.	Name
1	Front cover

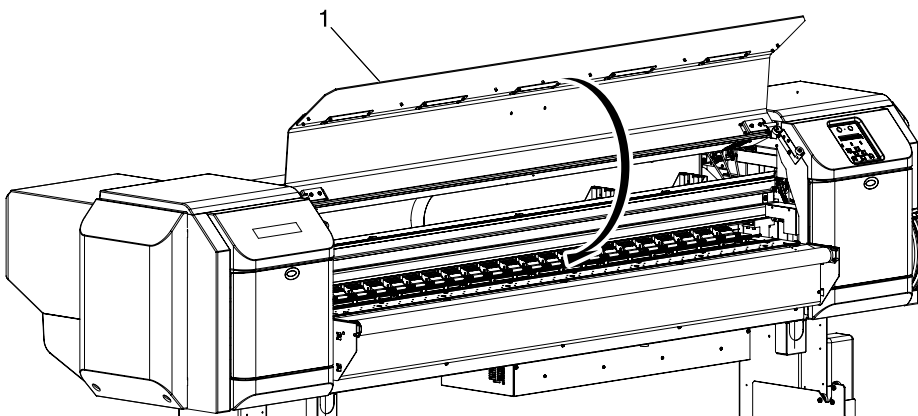
2. Change the head height by moving the head height adjustment lever (orange).



No.	Name
1	Head height adjustment lever

- The High lamp on the operation panel lights up in green.
- The Low lamp on the operation panel lights up in green.

3. Close the front cover.



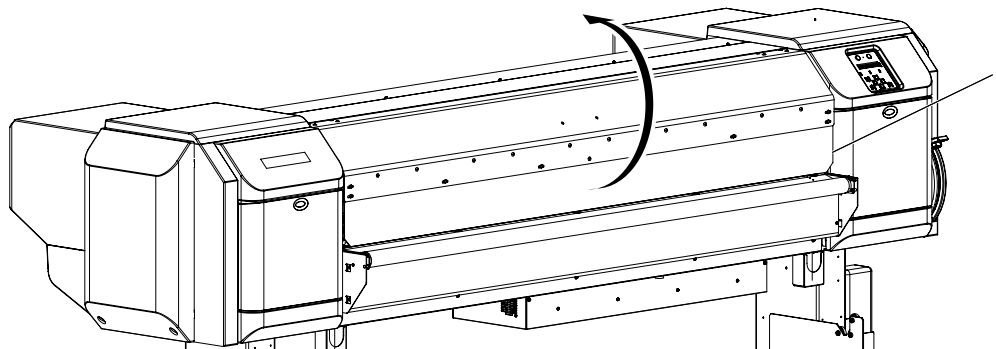
No.	Name
1	Front cover

4.2.5.3 When setting the head height to Low

NOTE

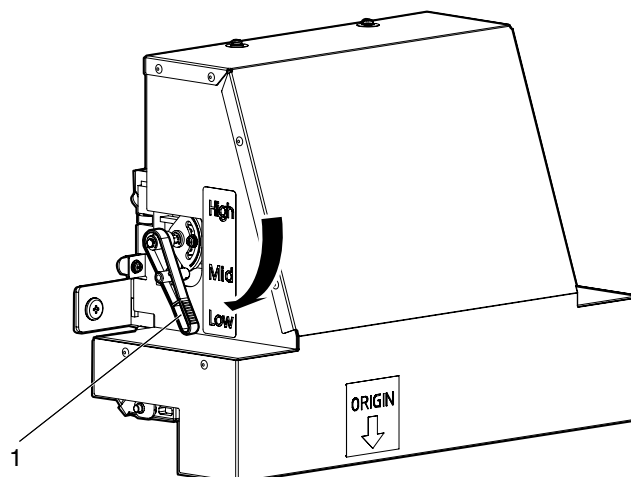
- Do not open the front cover or change the head height during printing.
If the head height is changed, the alignment will be changed and high print quality will not be guaranteed.

- Open the front cover.



No.	Name
1	Front cover

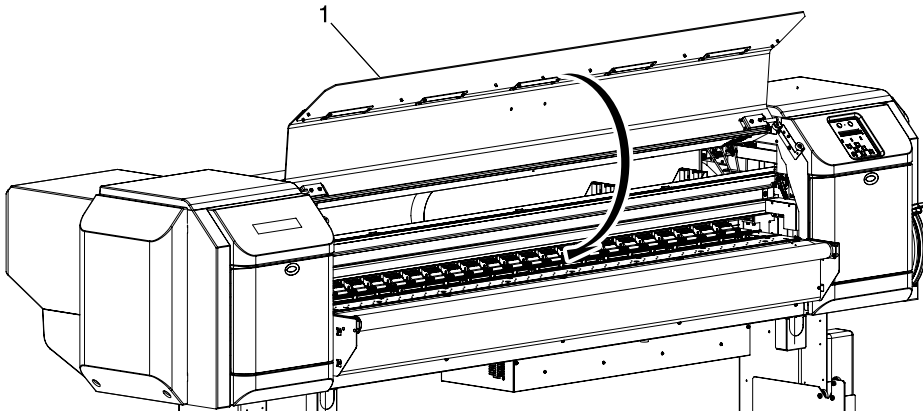
- Change the head height by moving the head height adjustment lever (orange).



No.	Name
1	Head height adjustment lever

- The Low lamp on the operation panel lights up in green.

3. Close the front cover.



No.	Name
1	Front cover

4.2.6 Media feed compensation

This section explains the Media feed compensation.

The feeding length depends on the media type. The following or similar results may be seen in prints.

- Printed images overlap.
- White lines are printed on images.

The accuracy of media feeding may be improved with the following methods.

1. Adjust the media feed compensation value.
 ↳ 4.2.6.1 Procedure for the media feed compensation value
2. Fix the media firmly.
 ↳ 4.2.6.2 How to fix the media firmly

4.2.6.1 Procedure for the media feed compensation value

1. Display the Dist.Adj menu on the operation panel.
 - a. Press the [Menu] key on the operation panel.
 - "Menu 1: Setup>" is displayed on the operation panel.
 - The operation panel shifts to the Setup menu display.
 - b. Press the [>] key on the operation panel.
 - "Set1: MediaType" is displayed on the operation panel.
 - c. Press the [Enter] key on the operation panel.
 - "Media: Type 1" is displayed on the operation panel.
 - d. Press the [+] key or [-] key on the operation panel to select the media type to use.
 - e. Press the [Enter] key on the operation panel.
 - "***>1: Print Mode" is displayed on the operation panel.

TIP

- The selected media (Type 1 to 30) is displayed in "***".
↳ 5.1.1 MediaType menu

- f. Press the [+] key or [-] key to select "***>2: PF Adjust>".
 - g. Press the [>] key on the operation panel.
 - "PF1: Initial Print" is displayed on the operation panel.
 - Proceed to Dist.Adj menu.
↳ 5.1.1.1.2 Dist.Adj menu
 2. Performs initial adjustment printing.
 - a. Press the [Enter] key on the operation panel.
 - "Feed Length: 250 mm" is displayed on the operation panel.

TIP

- The length of media that is fed (feeding length) for initial adjustment printing is normally set at 250 mm.
- If you increase the feeding length, the accuracy of the Media feed compensation improves.
To change the feeding length, press the [+] key or [-] key on the operation panel and change the set value.

- b. Press the [Enter] key on the operation panel.
 - "Printing" is displayed on the operation panel.
 - Starts initial adjustment printing.



No.	Name
1	Feed length
2	Media feeding direction

- When the initial adjustment printing is complete, the printer enters Normal.
- c. After the initial adjustment printing, cut the media.
 4.4.3 Cutting media
3. Measure the distance between the two pluses in the initial adjustment print using a ruler.
 4. Sets up Initial Adjust Change.
 - a. Press the [+] key or [-] key on the operation panel to select "PF2: Initial Change".
 - b. Press the [Enter] key on the operation panel.
 - "Init.: 250.0/250 mm" is displayed on the operation panel.
 - c. Press the [+] key or [-] key on the operation panel and enter the measured value in step 3.
 - d. Press the [Enter] key on the operation panel.
 - The initial adjustment value is saved.
 - "PF2: Initial Change" is displayed on the operation panel.

5. Performs Confirm Print.

- a. Press the [+] key or [-] key on the operation panel to select "PF3: Confirm Print".
- b. Press the [Enter] key on the operation panel.
 - "Feed Length: 250 mm" is displayed on the operation panel.


TIP

- The length of media that is fed (feeding length) for confirmation adjustment printing is normally set at 250 mm.
- If you increase the feeding length, the accuracy of the Media feed compensation improves.
To change the feeding length, press the [+] key or [-] key on the operation panel and change the set value.

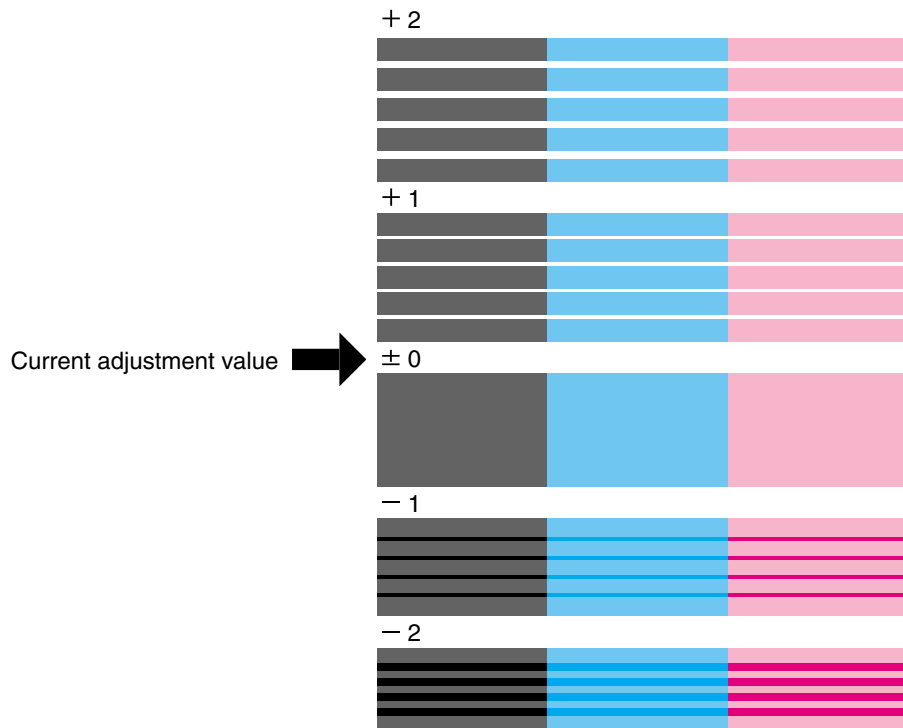
- c. Press the [Enter] key on the operation panel.
 - "Printing" is displayed on the operation panel.
 - Starts confirmation adjustment printing.



No.	Name
1	Feed length
2	Media feeding direction

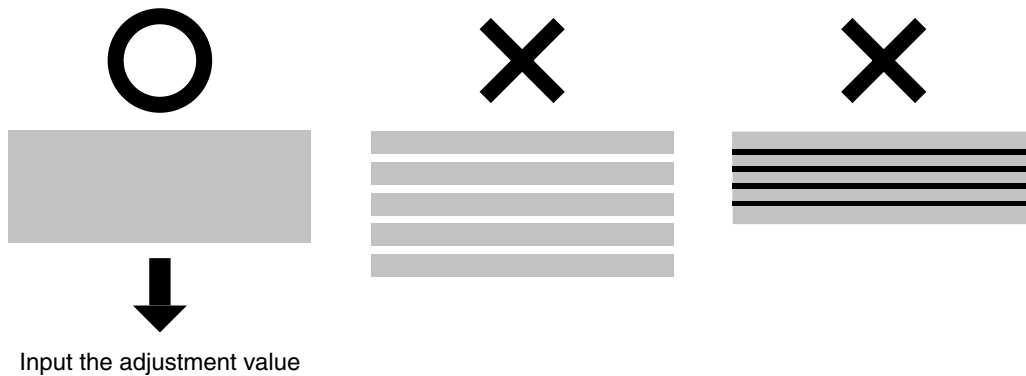
- When the Confirm Print is complete, the printer enters Normal.
 - d. After the confirmation adjustment printing, cut the media.
 4.4.3 Cutting media
6. Measure the distance between the two pluses in the confirmation adjustment print using a ruler. Then, confirm that the distance matches the feeding length when printing.
- a. If the distance does not match the feeding length, follow the procedure from Step 1 to Step 5 and readjust.
 - b. If the distance matches the feeding length, proceed to step 7.

7. Perform Micro adjustment printing.
 - a. Display the Dist.Adj menu on the operation panel in the same way as in step 1.
 - b. Press the [+] key or [-] key on the operation panel to select "PF4:Micro Print".
 - c. Press the [Enter] key on the operation panel.
 - "Printing" is displayed on the operation panel.
 - Starts micro adjustment printing.



- After the micro adjustment printing is completed, "PF4:Micro Print" is displayed on the operation panel.

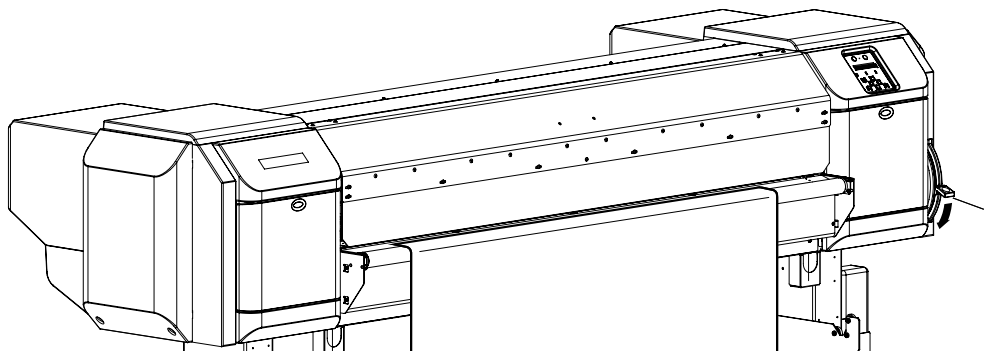
8. Refer to the illustrations below and check the printing result.



9. Sets up Micro Adjustment Change.
 - a. Press the [+] key or [-] key to select "PF5:Micro Change".
 - b. Press the [Enter] key on the operation panel.
 - "Micro: 0pulse" is displayed on the operation panel.
 - c. Press the [+] key or [-] key and enter the micro adjustment value according to the printing result in Step 7.
 - d. Press the [Enter] key on the operation panel.
 - The micro adjustment value is saved.
 - "PF5:Micro Change" is displayed on the operation panel.
10. Press the [Cancel] key on the operation panel several times.
 - The operation panel returns to Normal.
 - The adjustment of media feed compensation value is complete.

4.2.6.2 How to fix the media firmly

1. Set the roll media into the printer.
 ☞ 3.5.2 Loading and setting cut sheet media
2. Lower the media loading lever.



No.	Name
1	Media loading lever

3. Adjust the Media feed compensation value again.
 ☞ 4.2.6.1 Procedure for the media feed compensation value

4.2.7 Installing media holder plates

Variations in quality and use conditions can cause the edges of the media to curl, resulting in damage to the media by the print head surface.

To prevent this, use the media holder plates to reduce the amount of curling in the media.

Follow the procedure below to install the media holder plates.

1. Display the Side Margin menu on the operation panel.
 - a. Press the [Menu] key on the operation panel.
 - "Menu 1: Setup>" is displayed on the operation panel.
 - The operation panel shifts to the Setup menu display.
 - b. Press the [>] key on the operation panel.
 - "Set1: MediaType" is displayed on the operation panel.
 - c. Press the [+] key or [-] key to select "Set4: Side Margin".
 - d. Press the [Enter] key on the operation panel.
 - "Side Margin: ** mm" is displayed on the operation panel.
 - The display shifts to the Side Margin menu.
☞ 5.1.4 Side Margin menu

NOTE

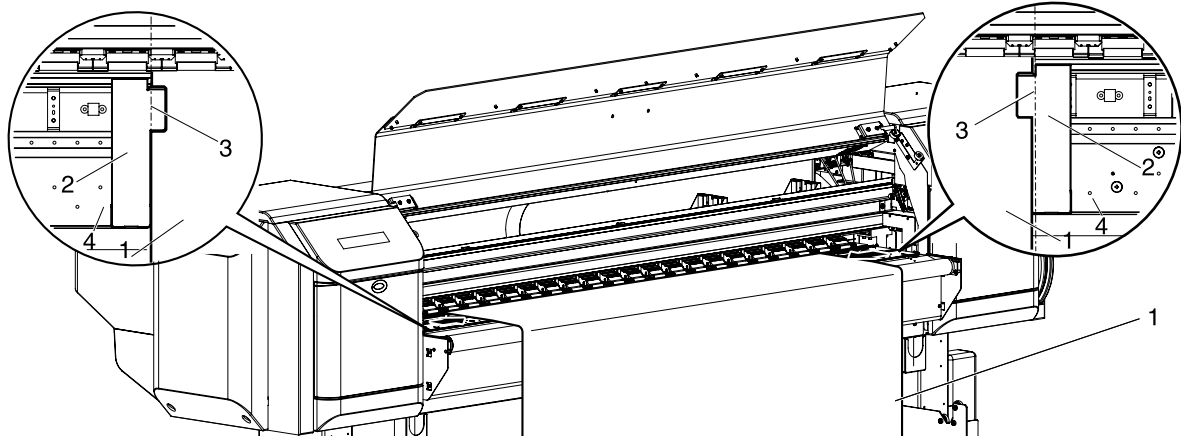
- The current setting value is displayed in the "***" of the Side Margin menu.
-

2. Set up the margins (side margins) to 10 mm while printing.
 - a. Press the [+] key or [-] key to select "Side Margin: 10 mm".
 - b. Press the [Enter] key on the operation panel.
 - After having saved the setting, "Set4: Side Margin" is displayed on the operation panel.
 - c. Press the [Cancel] key on the operation panel several times.
 - The operation panel returns to Normal.
3. Set the roll media to the printer.
☞ 3.5.2 Loading and setting cut sheet media

4. Set the media holder plates by sliding them from both sides of the platen.

NOTE

- Pay careful attention to the following when installing ink gutter covers.
 - Do not use the media holder plates for media whose thickness is 300 μm (0.3 mm) or thicker. The media holder plate may interfere with the print head.



No.	Name
1	Roll media
2	Media holder plate
3	Media loading position
4	Platen

5. After installing the media holder plates, make sure that they do not interfere with the media as it is fed through the printer.

CAUTION

- If a media jams when using the media holder plates, the plates may be deformed. When the media holder plates are deformed,
 - Do not remove the clogged media by force.
 - Stop using the printer.

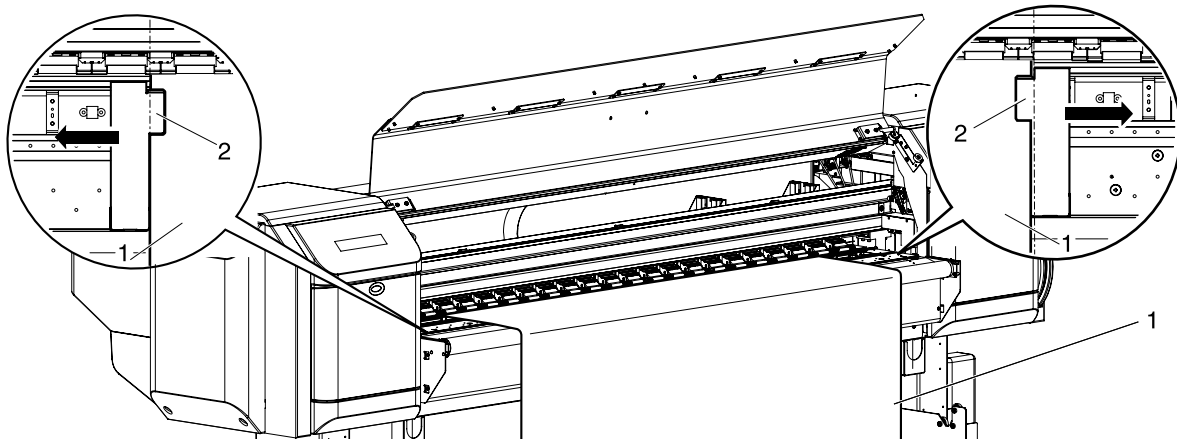
Using the printer with deformed media plates may damage the grid roller or print heads.

Contact your local MUTOH dealer.

NOTE

- If there is interference with the media as it is fed through the printer after the media holder plates have been installed, the media holder plates should not be used.

6. If the plates are not used, return the plates to their initial positions as shown in the following figure.



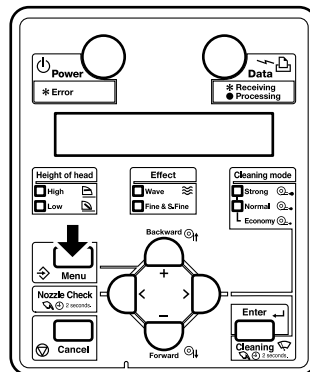
No.	Name
1	Roll media
2	Media holder plate

4.3 Menu setups on the operation panel

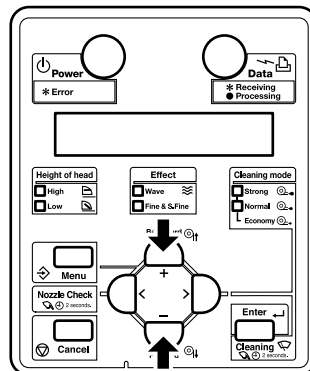
4.3.1 Menu setup procedure

Follow the procedure below to configure each setup menu.

1. Confirm that the operation panel is Normal.
2. Press the [Menu] key on the operation panel.



- "Menu 1: Setup>" is displayed on the operation panel.
 - The operation panel shifts to the Setup menu display.
3. Press the [+] key or [-] key on the operation panel to select a setup item and press the [Enter] key.

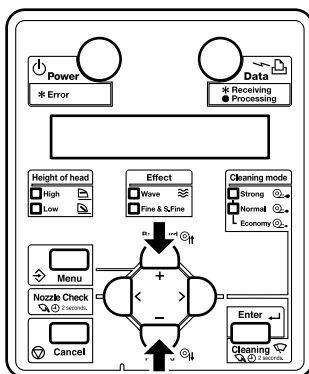


- The settings will be confirmed.
- When setup items have a submenu, the display shifts to the next menu.

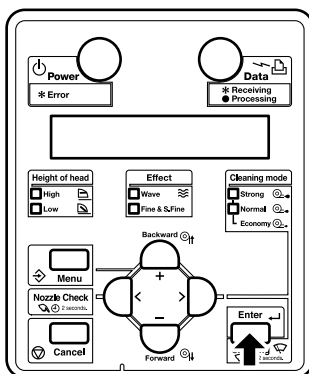
NOTE

- When a setup item has a submenu, ">" is displayed on the right end of the LCD monitor of the operation panel.
- For the general outline of each setup item, refer to "4.3.2 Panel setup menu overview".

4. The setting in the blinking part on the LCD monitor of the operation panel can be changed. Press the [+] key or [-] key to change the setting.



5. To save the changed setting, press the [Enter] key on the operation panel.

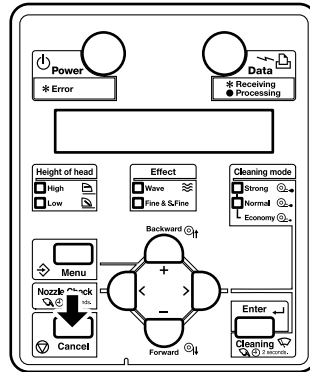


- The setting is saved and the next setup item is displayed.

NOTE

- If you press the [Cancel] key, [+] key or [-] key without pressing [Enter] key after changing a setting, the change will not be saved.

6. Press the [Cancel] key on the operation panel to exit from the setup.



- The previous setup menu is displayed.
- When the main menu is displayed, the screen turns to Normal.

4.3.2 Panel setup menu overview

This section explains the Panel setup menu of the printer. There are the following items in the Panel setup menu.

Setup item	Description
Setup menu	Various settings of the printer are configured.
Test Print menu	Performs nozzle check of the print head and setup list.
Adjust Print menu	Print and adjust test patterns for Alignment.
Cleaning menu	Performs head cleaning.
Menu Option menu	Set up the contents of the Setup menu.
Version menu	Displays the versions of the firmware.
Sleep Mode menu	Sleep mode settings are configured.

TIP

- For details of each setup item, refer to "5 Panel setup menu".

4.4 Operating from the operation panel

This section explains various functions that can be operated from the operation panel.

TIP

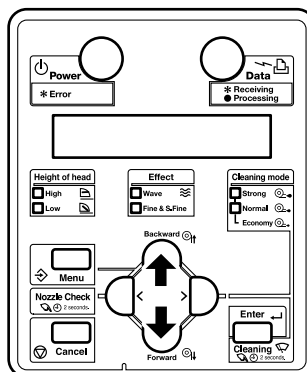
- For names and functions of each key, refer to "2.2.3 Operation panel".

4.4.1 Feeding media

You can feed roll media at a position that you want.

Follow the procedure below to feed media.

1. Confirm that the operation panel is Normal.
2. Check that the media loading lever is lowered.
3. Press the [Forward↓] key or the [Backward↑] key on the operation panel.

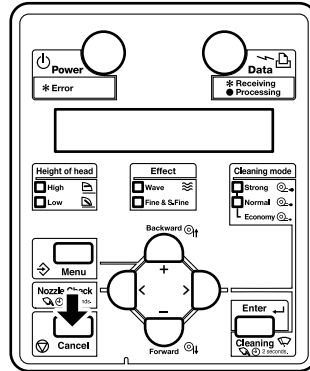


- Media is fed forward or backward.
4. Release the [Backward↑] key or [Forward↓] key on the operation panel after feeding media to the desired position.

4.4.2 Stopping printing operation

If you want to stop printing for some reason, operate as follows.

1. Stop sending printing data from the computer to the printer.
2. Press the [Cancel] key on the operation panel.



- The printer operates as follows.

Printer status	Operation with the [Cancel] key pressed
During printing	Terminates the printing, and deletes one data remaining in the printer.
Receiving data/analyzing data	Deletes the received/analyzed data and the subsequent data.

NOTE

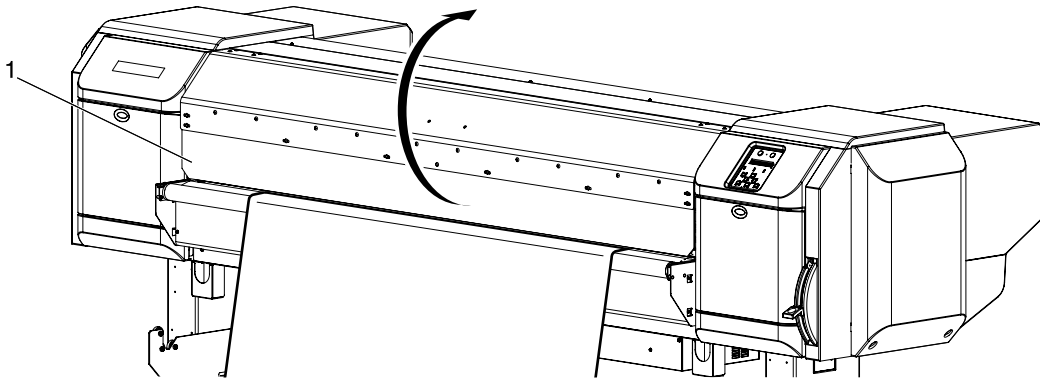
- If a large amount of data is saved on the printer, the operation panel may not return to Normal by a single [Cancel] key operation.
In such cases, wait for a few seconds and press the [Cancel] key again.

4.4.3 Cutting media

This section explains how to cut roll media.

Follow the procedure below to cut the roll media.

1. Verify the following regarding the operational condition of the product.
 - Printing or other operations are not in progress.
 - The operation panel display is Normal.
2. To change the position to cut the roll media, refer to "4.4.1 Feeding media" and advance the roll media to the desired cut position.
3. Open the front cover.

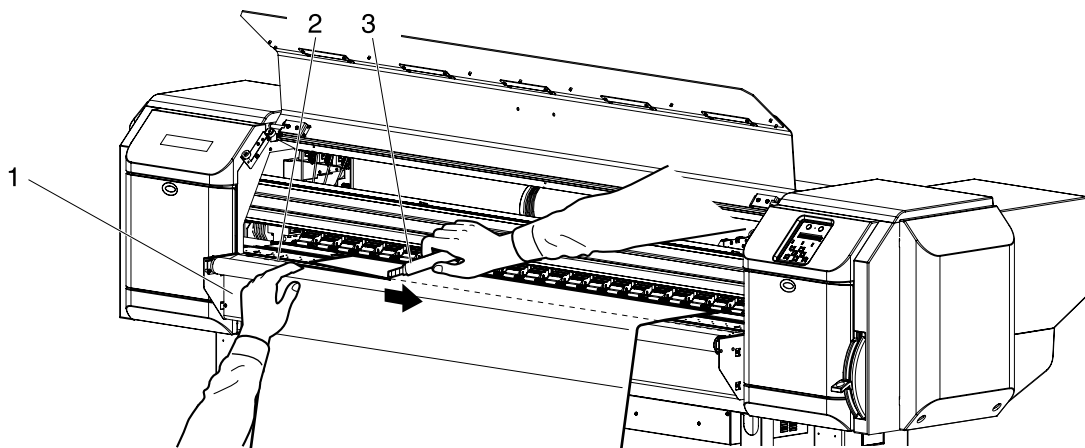


No.	Name
1	Front cover

4. Place a razor blade on the media cut groove on the media guide, and cut the roll media.

CAUTION

- Pay attention to the following points when you cut roll media.
Mishandling the razor blade may cause a cut on your finger or hand.
- When you hold media, do not place your finger on the media cut groove.
- Move the razor blade along the media cut groove.



No.	Name
1	Media guide
2	Media cut groove
3	Razor blade

- The procedure for cutting the roll media is complete.

NOTE

- When loading new roll media, cut the front edge of the media if it is not straight.

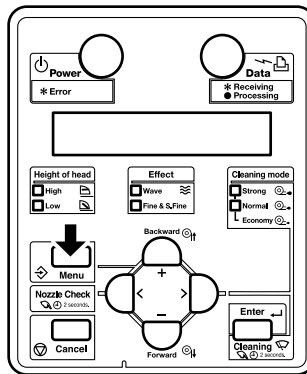
4.4.4 Changing and confirming settings while printing

While the printer is operating, you can change or confirm settings for the Panel setup menu.

4.4.4.1 Procedure for changing and confirming settings while printing

Follow the procedure below to change or confirm settings for the Panel setup menu.

1. Confirm that the printer is in one of the following conditions.
 - Receiving data
 - Analyzing data
 - Printing data
2. Press the [Menu] key on the operation panel.



- "Menu1: PF Adjust>" is displayed on the operation panel.
3. Press the [+] key or [-] key to change or confirm settings.

NOTE

- For the setting items whose settings can be changed or confirmed, refer to "4.4.4.2 Settings that can be changed or confirmed while printing".

4.4.4.2 Settings that can be changed or confirmed while printing

NOTE

- When you change a setting during operation, be sure to select "Backup" to save the setting that you changed.
If the printer returns to Normal without "Backup" being selected, the changed setting is not saved.

Setup item	Setting	Description
PF Adjust	-20 pulse to 0 to 20 pulse	Change the feed adjustment value.
Backup	—	• [Enter] key: Save the changed setting.
	—	• [Cancel] key: The printer returns to Normal.

4.4.5 Pausing printing

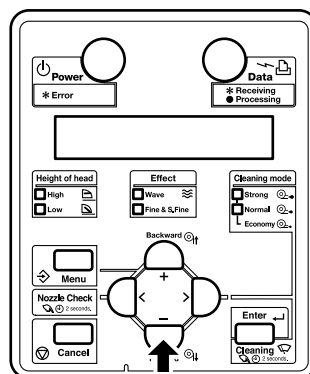
It is possible to pause to print during printing.

Follow the procedure below to pause or restart printing.

NOTE

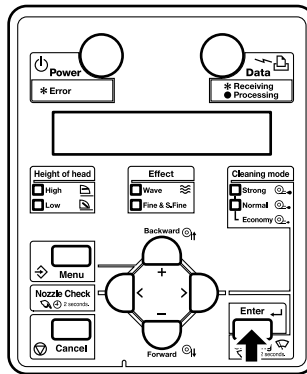
- If the printing is paused, the print quality will not be guaranteed.

1. Check that the printer is in operating.
2. Press the [-] key on the operation panel.



- The printer pauses printing.
- "PrintRestart -> ENTER" is displayed on the operation panel.

3. To restart printing, press the [Enter] key on the operation panel.



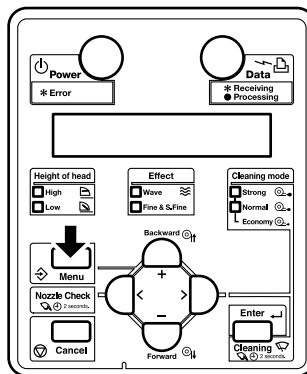
- The printer restarts printing.

4.4.6 Changing inks when using different types of inks

When using the printer in different types of four color ink mode, you can select which type of ink sets you want to use for printing.

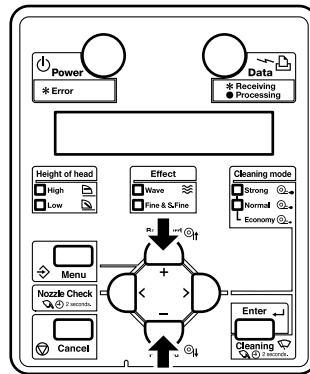
Follow the procedure below to change the ink type.

1. From the Setup menu display, display the "InkType" menu.
 - a. Press the [Menu] key on the operation panel.

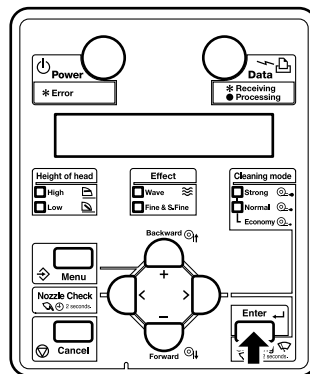


- "Menu 1: Setup>" is displayed on the operation panel.
- The operation panel shifts to the Setup menu display.

- b. Use the [+] key or [-] key on the operation panel to select "Set 1 : MediaType".

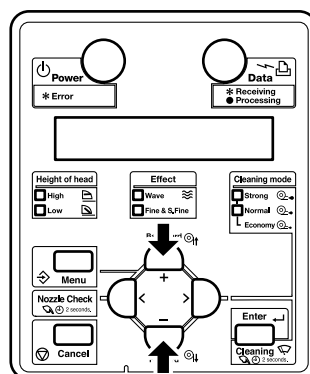


- c. Press the [Enter] key on the operation panel.

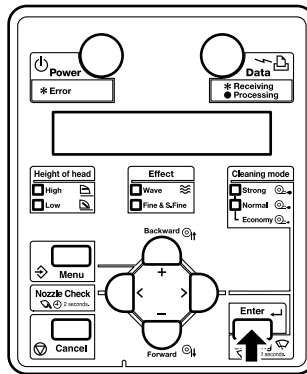


- "Media : Type XX" (XX describes the number between 1 and 30) is displayed on the operation panel.

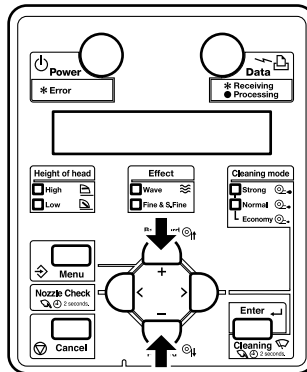
- d. Use the [+] key or [-] key on the operation panel to select the media type you would like to set.



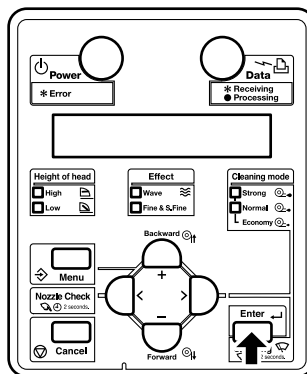
- e. Press the [Enter] key on the operation panel.



- "***>1 : Print Mode" is displayed on the operation panel.
- f. Use the [+] key or [-] key on the operation panel to select "***>6: Head Select".

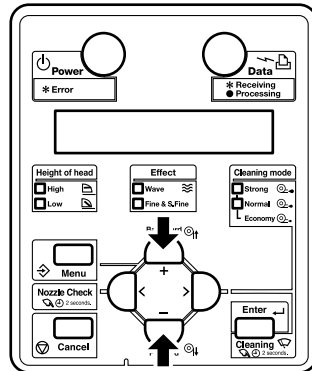


2. Press the [Enter] key on the operation panel.



- "Ink Type : * " (* indicates Head 1 or Head 2) is displayed on the operation panel.

- Use the [+] key or [-] key on the operation panel to select Print head to use between "Head 1" and "Head 2".

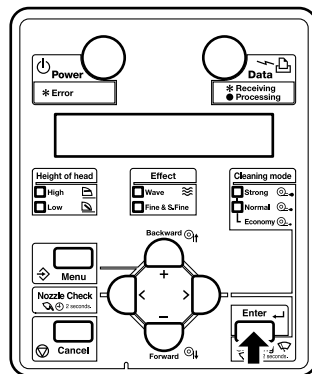


Print Head to Use	Corresponding Ink Cartridge Slot
Head 1	C-A, M-A, Y-A, K-A
Head 2	C-B, M-B, Y-B, K-B

4.4.7 Selecting Ink Types

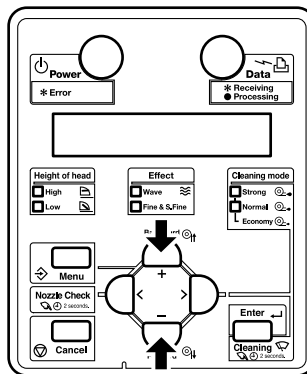
This section describes the procedure to select ink types currently used. You can select the ink type at anytime, not just at the initial charge. Follow the procedure below to select the ink type.

- From Setup menu, change the display on the operation panel to "Set28 : InkType".
- Press the [Enter] key on the operation panel.



- When selecting 8Color or 6Color in Ink set menu, proceed to the step 4. "InkType : * " (For *, refer to the chart in the step 5) is displayed on the operation panel.
- When 4Color Single or 4Color Double is selected as the ink set, proceed to the step 3. "Ink Type : *" (* indicates Head 1 or Head 2) is displayed on the operation panel.

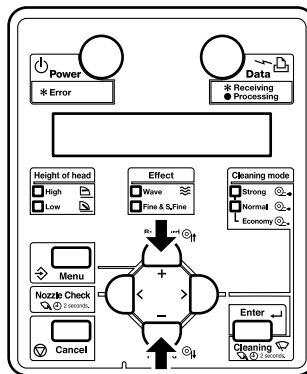
- Use the [+] key or [-] key on the operation panel to select Print head to use between "Head 1" and "Head 2".



Print Head to Use	Corresponding Ink Cartridge Slot
Head 1	C-A, M-A, Y-A, K-A
Head 2	C-B, M-B, Y-B, K-B

- "InkType : *"(For *, refer to the chart in the step 5) is displayed on the operation panel.

- Use the [+] key or [-] key on the operation panel to select the ink type.

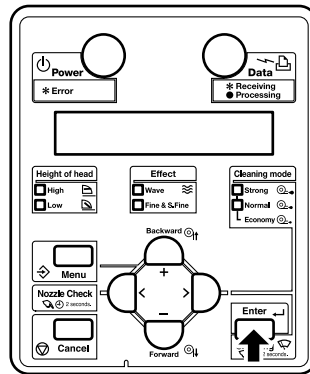


Ink types are as follows.

Ink Type	Display Name
Dye Transfer Sublimation Ink	VJ-DTSINK *
Direct Print Sublimation Ink	VJ-DPSINK *
Water Pigment Ink	RJ-FGINK

*Use this setting when using genuine ink.

5. Press the [Enter] key on the operation panel.



4.5 Changing ink setting modes

NOTE

- To change the ink color combination, contact your local MUTOH dealer.
- Do not perform the following operations during ink filling.
 - Do not turn OFF the printer.
 - Do not unplug the power cable.
 - Do not open the front cover.
 - Do not raise the media loading lever.

This section explains how to change the number of ink colors. The following ink setting modes can be used for this printer.


- Eight color ink mode
- Six color ink mode
- Different types of inks four color mode (4Color Single: setting ink cartridges of two different types, each having different ink characteristic)
- Same types of inks four color mode (4Color Double)

Refer to the following table for the ink cartridge alignment.

- "-A" and "-B" in the following table indicate the difference of ink types according to their ink characteristics.

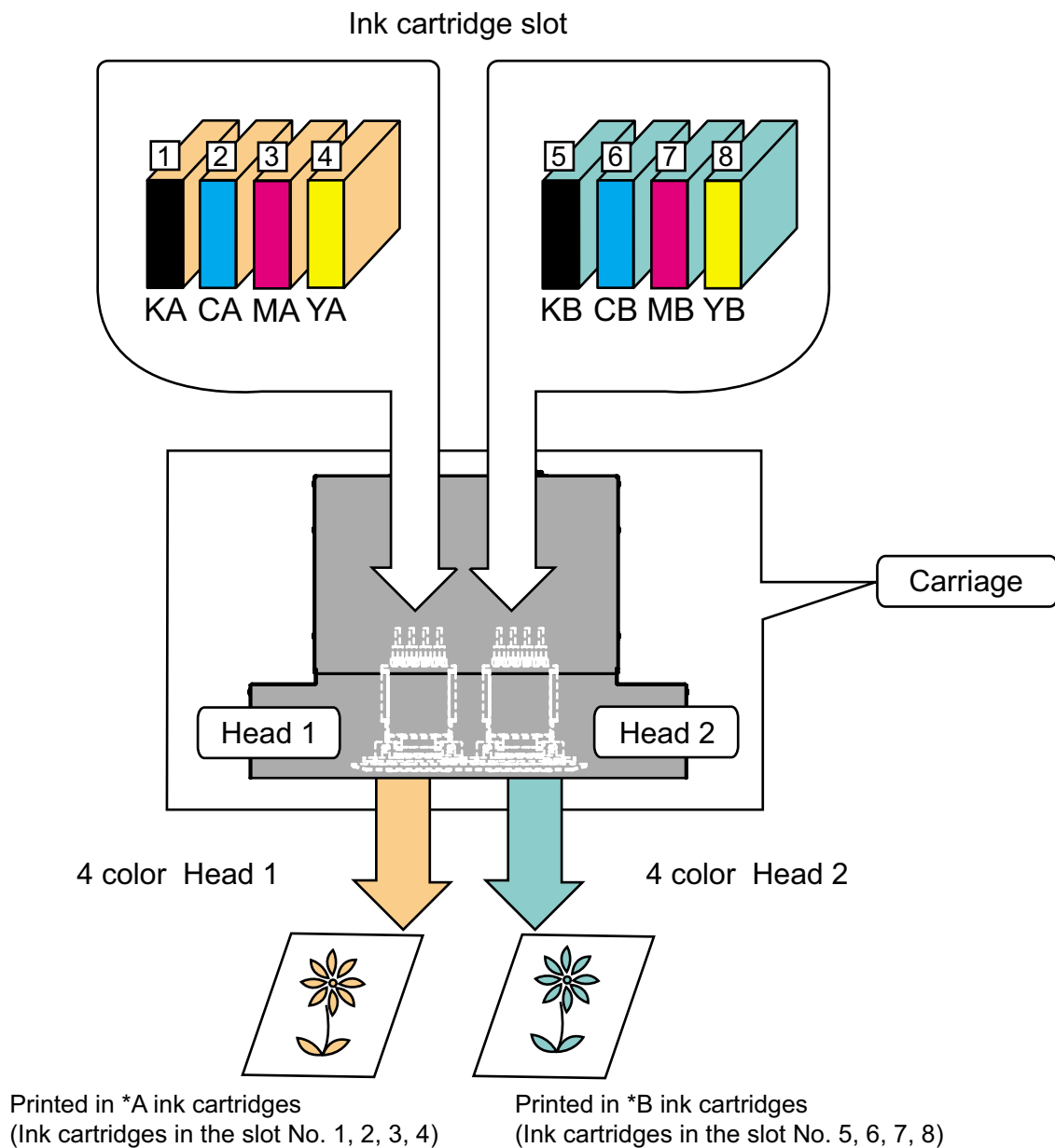
Slot No.	Eight color ink	Six color ink	Different types of four ink colors	Same types of four ink colors
1	K (Black)	K (Black)	K-A (Black A)	K-A (Black A)
2	C (Cyan)	C (Cyan)	C-A (Cyan A)	C-A (Cyan A)
3	M (Magenta)	M (Magenta)	M-A (Magenta A)	M-A (Magenta A)
4	Y (Yellow)	Y (Yellow)	Y-A (Yellow A)	Y-A (Yellow A)
5	SP1 (Special color 1)	SP1 (Special color 1)	K-B (Black B)	K-A (Black A)
6	SP2 (Special color 2)	SP2 (Special color 2)	C-B (Cyan B)	C-A (Cyan A)
7	SP3 (Special color 3)	Cleaning cartridge	M-B (Magenta B)	M-A (Magenta A)
8	SP4 (Special color 4)	Cleaning cartridge	Y-B (Yellow B)	Y-A (Yellow A)

Follow the procedures below.

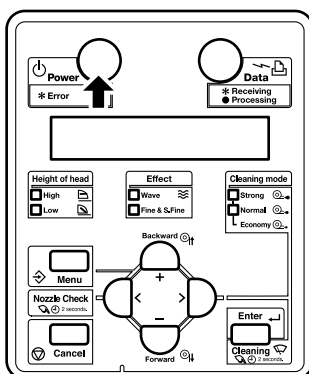
1. Perform a head cleaning.
 5.1.17 Longstore menu

NOTE

- Be sure to use the dedicated cleaning cartridge.
- You can wash each head individually via the setting of the Longstore menu.
When changing the ink setting modes or the ink types, perform the washing operation as follows.
 - When changing all cartridges: wash all heads
 - When changing cartridges only in the slot No. 1, 2, 3 and 4: wash Head 1
 - When changing cartridges only in the slot No. 5, 6, 7 and 8: wash Head 2
- Combination between cartridges and heads of the printer are as follows.



2. Turn OFF the power of the printer.
☞ 3.2.2 Turning the power OFF
3. Turn ON the power of the printer, and perform the following operation.
☞ 3.4 Installing ink cartridges



5 Panel setup menu

The section explains the Setup menu of the printer.














Setup item	Description
Setup menu	Various settings of the printer are configured. ☞ 5.1 Setup menu
Test Print menu	Performs nozzle check of the print head and setup list. ☞ 5.2 Test Print menu
Adjust Print menu	Sets up when adjusting the printer for the optimum quality of image print. ☞ 5.3 Adjust Print menu
Cleaning menu	Performs head cleaning. ☞ 5.4 Cleaning menu
Menu Option menu	Sets up the contents of the Setup menu. ☞ 5.5 Menu Option menu
Version menu	Displays the versions of the firmware. ☞ 5.6 Version menu
Sleep Mode menu	Sleep mode settings are configured. ☞ 5.7 Sleep Mode menu
















TIP

- The <> parts in each list are factory default settings (default).
- For details of the Setup menu, refer to the following manual.
☞ 9 "Setup menu diagram"

5.1 Setup menu

Various settings of the printer are configured.

Setup item	Description
MediaType	Settings for the media type to print are configured. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.1 MediaType menu
Effect	Sets up the Effect menu. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.2 Effect menu
Spitting	Sets up the flushing operation while printing. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.3 Spitting menu
Side Margin	Specifies the right and left margins of printed media. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.4 Side Margin menu
Media Set	Selects the media to be used (cut sheet media or roll media), and specifies the media detection method at media initialization. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.5 Media Set menu
Media Width	Specifies the media width between the loading mark and the left end if media detection is not performed during media initialization. Displays the detected media width if media detection is performed during media initialization. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.6 Media Width menu
Take-up	Set the operation of the optional take-up unit. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.7 Take-up menu
Origin	Sets the beginning of printing (origin) of the print data. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.8 Origin menu
Prev. Stick	Sets up to prevent media from sticking when printing starts. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.9 Prev. Stick menu
Head Travel	Sets up the range that the print head moves while printing. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.10 Head Travel menu
Multi Strike	Sets up the overwrite count per line. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.11 Multi Strike menu
Strike Wait	Sets up the waiting time while overwrite printing. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.12 Strike Wait menu
Slant Check	Sets up slanting detection during media loading. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.13 Slant Check menu

Setup item	Description
Auto Cleaning	Sets up the time for auto cleaning during printing. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.14 Auto Cleaning menu
Smart / C Status	Displays the Smart / C information. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.15 Smart / C Status menu
Roll length	Sets up the roll media length. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.16 Roll Length menu
Longstore	Performs head washing. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.17 Longstore menu
CR Maintenance	Performs maintenance. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.18 CR Maintenance menu
Initialization	Returns the settings of the printer to default. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.19 Initialization menu
Life Times	Displays the operational life time of each part. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.20 Life Times menu
IP Address	Sets the IP address of the printer. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.21 IP Address menu
Subnet Mask	Sets the subnet mask of the printer. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.22 Subnet Mask menu
Gateway	Sets the gateway. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.23 Gateway menu
Language	Sets the language used in the menu items displayed on the LCD monitor of the operation panel. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.24 Language menu
Temperature	Sets the unit of temperature display. <ul style="list-style-type: none"> • [Enter] key: shifts to the sub menu.  5.1.25 Temperature menu
InkSet	Set to change the number of ink colors used.  5.1.26 InkSet menu
Temporary	Displays the settings of "Off" or "ALL Off" in the Selection menu in the Setup menu temporarily. <ul style="list-style-type: none"> • [Enter] key: returns to the previous menu with all set up items displayed. • [Cancel] key: returns to the previous status in the Selection menu when the Setup menu is displayed.  5.5 Menu Option menu
—	<ul style="list-style-type: none"> • [Cancel] key: shifts to the previous menu.  5 Panel setup menu

5.1.1 MediaType menu

Settings for the media type to print are configured.

Setup item	Setting	Description
Media	Type 1	Settings for the media type to print are configured. It is possible to set 30 different user settings as "Type 1 to 30" for printing. • [Enter] key: shifts to the sub menu. ☞ 5.1.1.1 User media menu
	Type 2	
	...	
	Type 29	
	Type 30	• [Cancel] key: saves the setting and shifts to the previous menu. ☞ 5.1 Setup menu
	—	

5.1.1.1 User media menu

Various settings on the user media are configured.

In the User media menu, 30 different settings can be set as "Type 1 to 30" for the following printing operation.

NOTE

- If media other than recommended one (user media) is used, the following problems may occur.
 - Media detection error
 - Slant, torn, and wrinkle of media
 - Media jams
 - Favorable print quality cannot be obtained due to blots, blurs or dirt of ink.
 - End detection of roll media cannot be performed, etc.

The problems caused by the use of user media will not be covered by the warranty and repair expenses will be paid by the customer.

For details, contact your local MUTOH dealer.

Setup item	Setting	Description
Type 1 to 30	PrintMode	Sets up the print mode according to the usage of print data or print speed. • [Enter] key: shifts to the sub menu. ☞ 5.1.1.1.1 PrintMode menu
	PF Adjust	Sets up various settings on the media feed compensation. • [>] key: shifts to the sub menu. ☞ 5.1.1.1.2 Dist.Adj menu
	Vacuum Fan	Sets up vacuum fan operation. • [Enter] key: shifts to the sub menu. ☞ 5.1.1.1.3 Vacuum Fan menu
	DropSize	Sets the ink drop size when printing. • [Enter] key: shifts to the sub menu. ☞ 5.1.1.1.4 DropSize menu
	—	• [Cancel] key: shifts to the previous menu. ☞ 5.1.1 Media Type menu


5.1.1.1.1 PrintMode menu

Settings for print quality (print mode) are set according to the usage of print data or print speed.

NOTE

When "Mode5", "Mode6", "Mode9", or "Mode10" is set in the PrintMode menu, "Palette" is not displayed on the Test Print menu.

 5.2 Test Print menu

Setup item	Setting	Description
Mode	Mode 1	Sets up print mode. • Mode 1 to 4: Sets up to perform high quality printing. • Mode 5 to 6: Sets up to perform standard printing. • Mode 7 to 14: Sets up to perform high speed printing. Displays details of each print mode while pressing [>] key.  Details of print mode
	Mode 2	
	<Mode 3>	
	Mode 4	
	Mode 5	
	Mode 6	
	Mode 7	
	Mode 8	
	Mode 9	
	Mode 10	
	Mode 11	
	Mode 12	
	Mode 13	
	Mode 14	

Details of print mode







NOTE

Print speed is always Normal (N).

PrintMode	Resolution	Pass	Direction
Mode 1	720×720 dpi	16 times	Uni (unidirectional)
Mode 2	720×720 dpi	16 times	Bi (bidirectional)
Mode 3	720×720 dpi	8 times	Uni (unidirectional)
Mode 4	720×720 dpi	8 times	Bi (bidirectional)
Mode 5	540×720 dpi	6 times	Uni (unidirectional)
Mode 6	540×720 dpi	6 times	Bi (bidirectional)
Mode 7	720×720 dpi	4 times	Uni (unidirectional)
Mode 8	720×720 dpi	4 times	Bi (bidirectional)
Mode 9	360×540 dpi	3 times	Uni (unidirectional)
Mode 10	360×540 dpi	3 times	Bi (bidirectional)
Mode 11	360×720 dpi	2 times	Uni (unidirectional)
Mode 12	360×720 dpi	2 times	Bi (bidirectional)
Mode 13	360×360 dpi	1 time	Uni (unidirectional)
Mode 14	360×360 dpi	1 time	Bi (bidirectional)


5.1.1.1.2 Dist.Adj menu

Sets up various settings on the media feed compensation.

Setup item	Setting	Description
PF	Init.Adj.Print	Performs Initial Adjust Print. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu.  (1) Init.Adj.Print menu
	Init.Adj.Change	Sets up Initial Adjust Change. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu.  (2) Init.Adj.Change menu
	Confirm Print	Performs Confirm Print. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu.  (3) Confirm Print menu
	Micro Adj.Print	Performs Micro Adjustment Print. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu.  (4) Micro Adj.Print menu
	Micro Adj.Change	Sets up Micro Adjustment Change. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu.  (5) Micro Adj.Change menu
	—	<ul style="list-style-type: none"> [Cancel] key: shifts to the previous menu.  5.1.1.1 User media menu


(1) Init.Adj.Print menu

Performs Initial Adjust Print.

Setup item	Setting	Description
FeedLength	100mm to <250mm> to 500mm	Changes the length (feed length) of the media feed direction for initial adjust print. <ul style="list-style-type: none"> [Enter] key: Determines the setting. "Printing" is displayed on the operation panel and initial adjust print starts. After printing, the printer enters Normal.
	—	<ul style="list-style-type: none"> [Cancel] key: cancels the setting and shifts to the previous menu.  5.1.1.1.2 Dist.Adj menu


(2) Init.Adj.Change menu

Sets up Initial Adjust Change.

Setup item	Setting	Description
Init.	<Initial Print menu setting value> ± 50.0 mm	Sets up Initial Adjust Change.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1.1.1.2 Dist.Adj menu


(3) Confirm Print menu

Performs Confirm Print.

Setup item	Setting	Description
FeedLength	100mm to <250mm> to 500mm	Changes the length (feed length) of the media feed direction for Confirm Print. <ul style="list-style-type: none"> • [Enter] key: <ul style="list-style-type: none"> • Determines the setting. • "Printing" is displayed on the operation panel and initial adjust print starts. • After printing, the printer enters Normal.
	—	<ul style="list-style-type: none"> • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1.1.1.2 Dist.Adj menu


(4) Micro Adj.Print menu

Performs Micro Adjustment Print.

Setup item	Setting	Description
Micro Adj.Print	Printing	Prints the following PF pattern (micro adjustment) with a focus on the micro adjustment value. <ul style="list-style-type: none"> • Printing interval: ±1 pulse
	—	<ul style="list-style-type: none"> • [Cancel] key: shifts to the previous menu. Stops printing and returns to the previous menu if printing is in progress.  5.1 Setup menu


(5) Micro Adj.Change menu

Sets up Micro Adjustment Change.

Setup item	Setting	Description
Micro Adj.Change	-20 pulse to <0 pulse > to 20 pulse	Sets up Micro Adjustment Change.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.1.1.3 Vacuum Fan menu

Sets up vacuum fan operation.

Setup item	Setting	Description
Vacuum Fan	Off	Set when using fabric media.
	Low	Set when there is a possibility of a paper jam caused by failure in media loading when using flexible media.
	<Normal>	Set when using general media.
	High	Set when using thick media.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1.1.1 User media menu

5.1.1.1.4 DropSize menu

Sets the ink drop size when printing. When printing on a fabric media, change the size so that you can choose print through the media or not.

Setup item	Setting	Description
DropSize	<Normal>	Set when using paper media or media that you do not want to print through.
	Large	Set when you want to print through the fabric media.
	Larger	Set "Larger" when you cannot print through the fabric media. The setting can be selected when Inkset menu is set to "4Color Double". ☞ 5.1.26 InkSet menu
	Largest	Set "Largest" when you cannot print through the fabric media. The setting can be selected when Inkset menu is set to "4Color Double". ☞ 5.1.26 InkSet menu
	—	<ul style="list-style-type: none"> [Cancel] key: shifts to the previous menu. ☞ 5.1 Setup menu

NOTE

When setting to "Large", "Larger", or "Largest", make sure that you use an appropriate fabric media and set the media using the take-up unit so that the media do not contact with the platen.

☞ 3.5.1.3 Setting roll media to the take-up unit

☞ 3.5.1.6 Setting roll media to the heavy take-up unit


5.1.2 Effect menu

Sets up the Effect menu.

Set up this menu when you want to improve print quality by adjusting the set print mode.




NOTE

- The print quality may not be improved depending on the printing condition.

Setup item	Setting	Description
Effect	None 1	The Effect function is not used.
	None 2	If obvious white lines or vertical banding appeared on printed media in "None 1", set to "None 2".
	Wave 1	The printing joint will be the wave form.
	Wave 2	It will be improved the print quality. If obvious white lines or vertical banding appeared on printed media in "Wave 1", set to "Wave 2".
	Fuzz 1	The printing joint will shade off as the wave form.
	Fuzz 2	Set up this menu when obvious white lines or uneven print density appear on printed media in "Wave". If obvious white lines or vertical banding appeared on printed media in "Fuzz 1", set to "Fuzz 2".
	Wow 1	Set when colors become irregular.
	Wow 2	If irregular colors are not fixed using "Wow1", set to "Wow2".
	Fine&Wave 1	Perform the printing at slower speed than "Wave".
	<Fine&Wave 2>	Set up this menu to improve the print quality compared with "Wave". If obvious white lines or vertical banding appeared on printed media in "Fine&Wave 1", set to "Fine&Wave 2".
	Fine&Fuzz 1	Perform the printing at slower speed than "Fuzz".
	Fine&Fuzz 2	Set up this menu to improve the print quality compared with "Fuzz". If obvious white lines or vertical banding appeared on printed media in "Fine&Fuzz 1", set to "Fine&Fuzz 2".
	A-S. Fine&Wave	Performs "Wave" printing using the left side nozzles. Since only the nozzles on one side is used, printing speed becomes half of "Wave 1 to 2". Set up this menu to improve the print quality compared with "Fine&Wave 1 to 2".
	B-S. Fine&Wave	Performs "Wave" printing using the right side nozzles. Since only the nozzles on one side is used, printing speed becomes half of "Wave 1 to 2". Set up this menu to improve the print quality compared with "Fine&Wave 1 to 2".
	—	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu. [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.3 Spitting menu

Sets up the flushing operation while printing.


Setup item	Setting	Description
Spitting	<Origin>	Perform the flushing operation on the flushing box every time the print head returns to the origin position. <ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu.  5.1 Setup menu
	On Media	Perform the flushing operation on the page margins. The printing speed will be improved since the number of time to return to the flushing box is reduced. <ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the sub menu.  5.1.3.1 Spitting Pass count menu
	—	<ul style="list-style-type: none"> [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.3.1 Spitting Pass count menu

Set the frequency (flushing return count) that the print head returns to the flushing box (located) on the origin side when setting "On Media" in the Spitting menu.

NOTE

- When increasing the flushing return count, clogging may occur while printing continuously.
- If you set the flushing return count to "0 time or less", the nozzle will become easily clogged because flushing is not performed over the media. In this instance, print quality cannot be guaranteed.

Setup item	Setting	Description
Pass count	– 999 cnt to 0 cnt to <5 cnt> to 999 cnt	Set the flushing return count. Example <ul style="list-style-type: none"> • -1 time: return to the flushing box on the original side every time the print head goes and returns. Flushing is not performed over the media. • 0 time: the print head moves over the print media until printing finishes, and does not return to the flushing box. Flushing is not performed over the media, either. • 1 time: return to the flushing box on the original side every 1 time the print head goes and returns. • 5 times: return to the flushing box on the original side every 5 times the print head goes and returns.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1.3 Spitting menu

5.1.4 Side Margin menu

Set up the right and left margins (side margins) of printed image.

NOTE

- When the setting is set to "On Media" in the Spitting menu, the Side Margin setting becomes invalid. The margin required for the flushing operation is automatically set.

☞ 5.1.3 Spitting menu

Setup item	Setting	Description
Side Margin	5mm to <10mm> to 25mm	Set the side margins.
	—	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu. [Cancel] key: cancels the setting and shifts to the previous. ☞ 5.1 Setup menu

5.1.5 Media Set menu

Selects the media to be used (cut sheet media or roll media), and specifies the media detection method at media initialization.

NOTE


- Set the media width that is set in the Media Width menu when setting "Off" in the Media detection menu.

☞ 5.1.6 Media Width menu

Setup item	Setting	Description
Media Set	<Roll>	Set when using roll media. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu. ☞ 5.1.5.1 Media Set menu (Roll)
	Cut	Set when using cut sheet media. <ul style="list-style-type: none"> [Enter] key: shifts to the sub menu. ☞ 5.1.5.2 Media Set menu (Cut sheet)

5.1.5.1 Media Set menu (Roll)

When using the roll media, select the media detection method from the following table.


Setup item	Setting	Description
Init.	Off	The media is not detected.
	Top&Width	Detect the media width and edge while initializing the media.
	<Width>	Detect the media width while initializing the media.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.5.2 Media Set menu (Cut sheet)

When using the cut sheet media, select the media detection method from the following table.


NOTE

- If the settings of Media Set or Media Set (Roll / Cut sheet) menu was changed after completing the media detection, raise and lower the pressurizing lever once more to perform the media detection again.

Setup item	Setting	Description
Init.	<Auto>	Automatically detects four corners of the media.
	Vertical	Set when using the cut sheet media in portrait direction.
	Horizontal	Set when using the cut sheet media in landscape direction.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

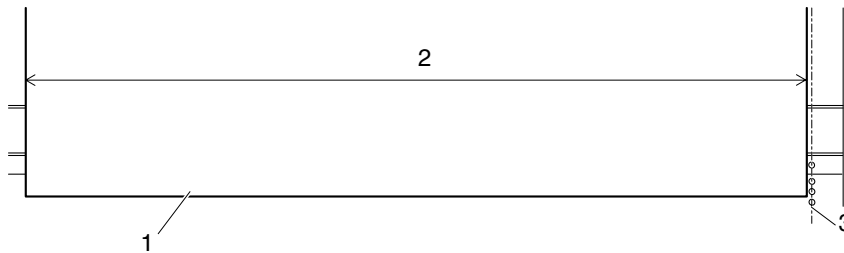
5.1.6 Media Width menu

Specifies the media width between the loading mark and the left end if media detection is not performed during media initialization.

 (1) Media Width menu

Displays the detected media width if media detection is performed during media initialization.

 (2) MediaWidth menu




No.	Name
1	Roll media
2	Media width
3	Media loading mark


(1) Media Width menu

NOTE

- Setting a larger value than the media width set in the Media Width menu may cause ink to leak on the media or printer.

Setup item	Setting	Description
Media Width	VJ-1628TD <1000mm> to 1625mm VJ-2628TD <1000mm> to 2600mm	Set the media width.
	—	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu. [Cancel] key: cancels the setting and shifts to the previous menu.  5.1.1.1 User media menu

(2) MediaWidth menu

Setup item	Setting	Description
MediaWidth	**** mm	Display the media width that is detected while initializing.
	—	<ul style="list-style-type: none"> [Cancel] key: shifts to the previous menu.  5.1 Setup menu

5.1.7 Take-up menu

Set the operation of the optional take-up unit.

NOTE

- When the take-up unit is not installed, please do not set to "Type 1".
By doing so, the product will be unable to function properly.
- When the Take-up menu is set to "Type 1", the setting for the Prev. Stick menu is disabled.
☞ 5.1.9 Prev. Stick menu

TIP

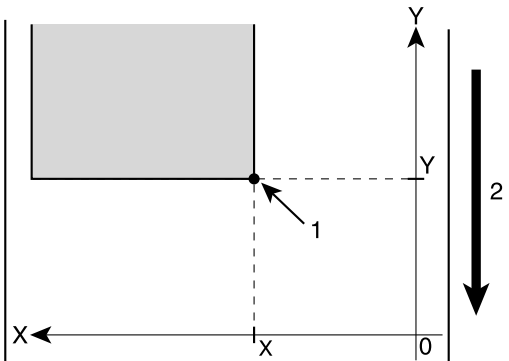
- For details about the optional take-up unit, contact your local MUTOH dealer.

Setup item	Setting	Description
Take-up	<Off>	The take-up unit is not used.
	Type 1	Set to "Type 1" to use the optional take-up unit.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu. ☞ 5.1 Setup menu

5.1.8 Origin menu

Sets the beginning of printing (origin) of the print data.


Set the menu when reprinting on the margin with changing the printing data position to the printed media.


Setup item	Setting	Description
Origin	<ul style="list-style-type: none"> X (print head transferring distance): 00000 mm to 99,999 mm Y (media feeding distance): 0000 mm to 9,999 mm 	<p>Change the print head position and media feeding distance with the following keys.</p> <ul style="list-style-type: none"> [>] key: Decrease the print head transferring distance. [<] key: Increase the print head transferring distance. [+] key: Increase the media feeding distance. [-] key: Decrease the media feeding distance.  <p>1. Starting position 2. Media feeding direction</p> <ul style="list-style-type: none"> [Enter] key: "Moving Origin Pos." is displayed on the operation panel and the print head moves to the starting position. "Confirm Position ->E" is displayed on the operation panel.
	Confirm Position→Enter	<ul style="list-style-type: none"> [Enter] key or after a certain period of time: Determines the setting. Print head returns to the original position. Save the setting and shift to the previous menu. ☞ 5.1 Setup menu
	—	<ul style="list-style-type: none"> [Cancel] key: cancels the setting and shifts to the previous menu. [Cancel] key is valid only before the [Enter] key is being pressed after you enter the print head transferring distances X and Y. ☞ 5.1 Setup menu

5.1.9 Prev. Stick menu

Sets up to prevent media from sticking when printing starts.


NOTE

- When the Take-up menu is set to "Type 1", the setting for the Prev. Stick menu is disabled.
 5.1.7 Take-up menu

Setup item	Setting	Description
Prev. Stick	Off	The stick-prevent operation is not performed.
	<On>	The stick-prevent operation is performed. Feed the media back and forth to prevent from sticking.
	—	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu. [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu


5.1.10 Head Travel menu

Sets up the range that the print head moves while printing.

Setup item	Setting	Description
CR Movement	<Data>	The print head moves the range of the print data width. The printing speed will be improved since the moving range of the print head is decreased.
	Machine	The print head moves from origin to the maximum printable media width.
	—	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu. [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu


5.1.11 Multi Strike menu

Sets up the overwrite count per line.

Setup item	Setting	Description
Multi Strike	<1 cnt> to 9 cnt	Set the overwrite count.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu


5.1.12 Strike Wait menu

Sets up the waiting time while overwrite printing.

Setup item	Setting	Description
Strike Wait	<0.0 sec.> to 0.1 sec. to 5.0 sec.	Sets the overwrite wait time.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.13 Slant Check menu



Sets up slanting detection during media loading.





Setup item	Setting	Description
Slant Check	Off	Slant Check is not performed.
	<On>	Slant Check is performed.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.14 Auto Cleaning menu

Configure the settings for the auto-cleaning operation.



TIP

- The cleaning mode reflects the settings in the operation panel.
 6.2.3 Head cleaning
- If the printer head height is set to High, the auto cleaning setting is disabled. Manually perform the cleaning operation.
 6.2.3 Head cleaning

Setup item	Setting	Description
Auto Cleaning	WaitingTime	Set the value for auto-cleaning in standby mode.  5.1.14.1 Automatic Cleaning in Standby Mode
	PrintingTime	Set the value for auto-cleaning in printing mode.  5.1.14.2 Automatic Cleaning in Printing Mode
	Before Print	Set the value for auto-cleaning in pre-printing mode.  5.1.14.3 Pre-printing Mode Auto Cleaning
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.14.1 Automatic Cleaning in Standby Mode

Set the automatic cleaning interval performed in standby mode.

Setup item	Setting	Description
Waiting Time	Off / 1min to 10min to <360min> to 1440min	Sets the interval for automatic cleaning performed in standby mode. <ul style="list-style-type: none"> • Off: The automatic cleaning is not performed. • Others: The head cleaning selected in Cleaning menu is performed after a predetermined time has elapsed.  6.2.3 Head cleaning
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous.  5.1 Setup menu

5.1.14.2 Automatic Cleaning in Printing Mode

Set the automatic cleaning interval performed in printing mode.

Setup item	Setting	Description
Printing Time	<Off> / 1min to 10min to 180min	Sets the interval for automatic cleaning performed in printing mode. <ul style="list-style-type: none"> • Off: The automatic cleaning is not performed. • Others: The head cleaning selected in Cleaning menu is performed after a predetermined time has elapsed. ☞ 6.2.3 Head cleaning
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous. ☞ 5.1 Setup menu

5.1.14.3 Pre-printing Mode Auto Cleaning

Set the value for auto-cleaning in pre-printing mode.

Setup item	Setting	Description
Before Print	<Off>	The auto cleaning is not performed.
	On	<ul style="list-style-type: none"> • Perform the head cleaning selected in the Cleaning menu before printing. ☞ 6.2.3 Head cleaning
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu. ☞ 5.1.14 Auto Cleaning menu

5.1.15 Smart / C Status menu

Displays the Smart / C information.




NOTE

- This printer does not perform any operation when the Smart/C has run out of the ink.

Setup item	Setting	Description
Smart / C Status	0 to 100 (%)	Displays the remaining amount of ink in the Smart/C.
	Max (ml)	The maximum value is displayed.
	—	<ul style="list-style-type: none"> • [Cancel] key: shifts to the previous menu. ☞ 5.1 Setup menu

5.1.16 Roll Length menu

Sets up the roll media length.


Setup item	Setting	Description
Roll	<Off>	Roll Length is not used. <ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu.  5.1 Setup menu
	Roll1	Sets up the roll media length.
	Roll2	The Roll Length setting is set for three types as "Roll1" to "Roll3".
	Roll3	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the sub menu.  5.1.16.1 Roll Length menu
	—	<ul style="list-style-type: none"> [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.16.1 Roll Length menu

Sets up the roll media length.

NOTE

- After replacing the roll media, adjust the Roll Length again.
If the Roll Length is not set, the residual quantity of roll media may not be displayed correctly.

Setup item	Setting	Description
Length	1m to <30m> to 99m	Sets the roll media length.
	—	<ul style="list-style-type: none"> [Enter] key: saves the setting and shifts to the previous menu. [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.17 Longstore menu

Performs head washing.

NOTE



- Be sure to use the dedicated cleaning cartridge.
 - When you restart the printer after the head washing operation is complete, the InkSet menu is displayed. Select the ink set to be used, and perform the ink replenishment. However, if "Head1" or "Head2" is selected in the "Longstore" menu, "8color" and "6color" cannot be selected after restarting the printer.
- ☞ 4.5 Changing ink setting modes

Setup item	Setting	Description
Longstore	ALL	Wash the print heads on both sides.
	Head1	Wash the print heads on Head 1. However, if "8color" or "6color" is selected, this setting is not available.
	Head2	Wash the print heads on Head 2. However, if "8color" or "6color" is selected, this setting is not available.
	—	<ul style="list-style-type: none"> • [Enter] key: performs the selected wash operation. • [Cancel] key: cancels the setting and shifts to the previous menu. ☞ 5.1 Setup menu


5.1.18 CR Maintenance menu


Performs maintenance.

Use this to perform the following daily maintenance shown below.

- When replacing the flushing-box sponges.
 6.1.3 Replacing the flushing-box sponges
- When cleaning the cleaning wiper unit
 6.2.4 Cleaning the cleaning wiper unit


NOTE

- When the CR Maintenance menu is displayed, even leaving the keys untouched for three minutes does not return to the printer to normal status.
 2.3 Printer status

Setup item	Setting	Description
CR Maintenance	Start	Performs maintenance. <ul style="list-style-type: none"> • [Enter] key: The print head moves to the left, then the cleaning wiper unit is up.
	End	Completes maintenance. <ul style="list-style-type: none"> • [Enter] key: The cleaning wiper unit is down, then the print head returns to its original position.
	—	<ul style="list-style-type: none"> • [Cancel] key: shifts to the previous menu without maintenance.  5.1 Setup menu


5.1.19 Initialization menu

Returns the settings of the printer to default.

Setup item	Setting	Description
Initialization	ALL	All settings can be returned to factory default.
	MediaType	The settings of the MediaType menu is returned to factory default.
	Except MediaType	The settings value other than the MediaType menu is returned to factory default.
	—	<ul style="list-style-type: none"> • [Enter] key: "*** Initialing ***" is displayed on the operation panel and the printer initializes the setting. • [Cancel] key: shifts to the previous menu without initialization.  5.1 Setup menu

5.1.20 Life Times menu

Displays the operational life time of each part.

Setup item	Setting	Description
Life Times	Head	Display the operational life of each part. <ul style="list-style-type: none"> The lifetime of each part is indicated by the asterisks (Maximum 5 asterisks: 100% left). As the part deteriorates, the number of asterisks decreases one by one (20 %). The part should be changed when all of the asterisks have disappeared, and "Change" is displayed. Contact your local MUTOH dealer to ask for replacing parts.
	Pump	
	CR Motor	
	PF Motor	
	—	<ul style="list-style-type: none"> [Cancel] key: shifts to the previous menu.  5.1 Setup menu

NOTE


- When replacing a part that its operational life has ended,
 - No charge for replacing within the warranty period or under the contract.
 - You are liable for the cost of repairs under conditions other than mentioned above.
- Do not keep using the part which has reached its life span. Problems caused by doing so will not be covered by the warranty.

5.1.21 IP Address menu

Sets the IP address of the printer.

NOTE

- Be sure to set the IP address after consulting the network administrator.


Setup item	Setting	Description
IP Address	000.000.000.000 to <192.168.001.253> to 255.255.255.255	Change the IP address by operating the following keys. <ul style="list-style-type: none"> [+] key: increases the setting value. [-] key: decreases the setting value. [Enter] key: changes the setting for the next segment.
	—	<ul style="list-style-type: none"> [Cancel] key: saves the setting and shifts to the previous menu.  5.1 Setup menu

5.1.22 Subnet Mask menu

Sets the subnet mask of the printer.

NOTE

- Be sure to set the subnet mask after consulting the network administrator.


Setup item	Setting	Description
Subnet Mask	000.000.000.000 to <255.255.255.000> to 255.255.255.255	Change the subnet mask by operating the following keys. <ul style="list-style-type: none"> • [+] key: increases the setting value. • [-] key: decreases the setting value. • [Enter] key: changes the setting for the next segment.
	—	<ul style="list-style-type: none"> • [Cancel] key: saves the setting and shifts to the previous menu.  5.1 Setup menu

5.1.23 Gateway menu

Sets the gateway.


NOTE

- Be sure to set the gateway after consulting the network administrator.

Setup item	Setting	Description
Gateway	000.000.000.000 to <192.168.001.254> to 255.255.255.255	Change the gateway by operating the following keys. <ul style="list-style-type: none"> • [+] key: increases the setting value. • [-] key: decreases the setting value. • [Enter] key: changes the setting for the next segment.
	—	<ul style="list-style-type: none"> • [Cancel] key: saves the setting and shifts to the previous menu.  5.1 Setup menu


5.1.24 Language menu

Sets the language used in the menu items displayed on the LCD monitor of the operation panel.

Setup item	Setting	Description
Language	Japanese	Displays the menu items in Japanese.
	English	Displays the menu items in English.
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.25 Temperature menu

Sets the unit of temperature display.

Setup item	Setting	Description
Temperature	Celsius [°C]	Displays the temperature in Celsius [°C].
	Fahrenheit [°F]	Displays the temperature in Fahrenheit [°F].
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu.  5.1 Setup menu

5.1.26 InkSet menu

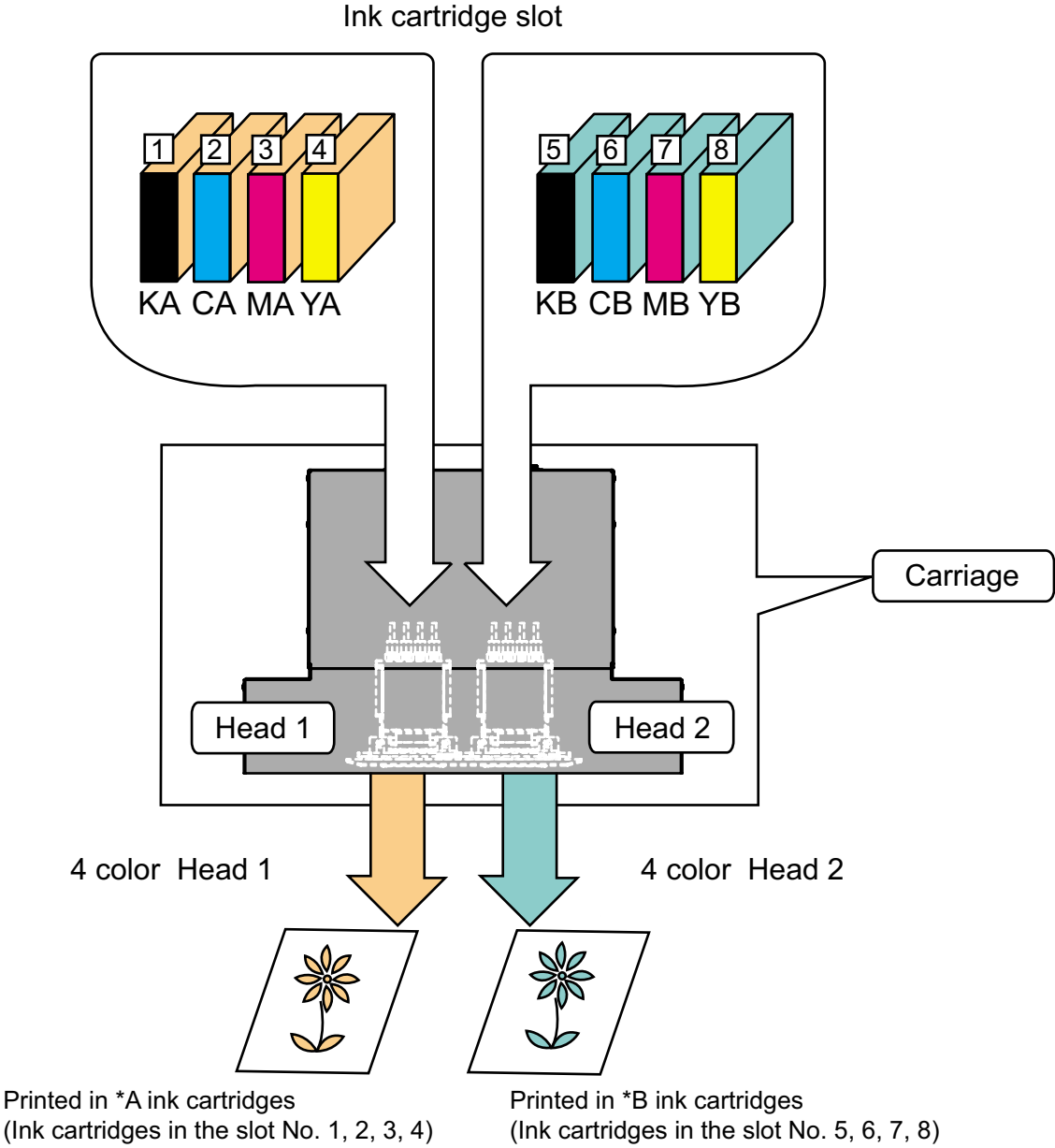
Used to confirm the current ink setting modes.

When in different types of four color ink mode, you can change the ink set to be used.

Setup item	Setting	Description
InkSet	<8color>	Eight colors (C, M, Y, K, Special color 1, Special color 2, Special color 3, Special color 4)
	6color	Six colors (C, M, Y, K, Special color 1, Special color 2)
	4Color Single	Different types of ink, four colors (C-A, M-A, Y-A, K-A, or C-B, M-B, Y-B, K-B) *For -A and -B, refer to the labels on the ink cartridge slots or refer to the following. ☞ 3.4 Installing ink cartridges Insert two types of ink sets that have different characteristics, each having four colors of ink. When selecting Head 1, print out with the first type of ink (C-A, M-A, Y-A, K-A), and when selecting Head 2, print out with the second type of ink (C-B, M-B, Y-B, K-B).
	4Color Double	Same type of ink, four colors (C-A, M-A, Y-A, K-A) Set four color inks of same type (2 sets: 8 pieces), and perform printing. "Larger" and "Largest" become selectable in the DropSize menu. ☞ 5.1.1.1.4 DropSize menu
	—	<ul style="list-style-type: none"> • [Enter] key: saves the setting and shifts to the previous menu. • [Cancel] key: cancels the setting and shifts to the previous menu. ☞ 5.1 Setup menu

NOTE



- 4colorHead1 and 4colorHead2 settings are for inserting two types of ink sets that have different characteristic into the printer simultaneously and switching them as needed when printing. Corresponding slots for each ink cartridge are shown below.
- If "4Color Double" is set, "Larger" and "Largest" become selectable in the DropSize menu. Set "Larger" or "Largest" when you want to print through the thick fabric media.



5.1.27 Ink Type Menu

This section describes the procedure to select the ink type to use.
The setup items differ depending on the ink set setting used.



5.1.27.1 8Color, 6Color, 4Color Double

Setup Item	Set Value	Description
Ink type	<VJ-DTSINK *>	Select this when using Dye Transfer Sublimation Ink.
	VJ-DPSINK *	Select this when using Direct Print Sublimation Ink.
	RJ-FGINK	Select this when using Water Pigment Ink.
	—	<ul style="list-style-type: none"> [Enter] key: Saves the setting and shifts to the initial hierarchy.  5.1 Setup menu [Cancel] key: Cancels the set value and shifts to the previous hierarchy.  5.1.27 Ink Type Menu

*Use this setting when using genuine ink.



5.1.27.2 4Color Single

(1) Head selection

Setup Item	Set Value	Description
Ink type	Head 1	Sets up the ink type of Head 1 (C-A, M-A, Y-A, K-A).
	Head 2	Sets up the ink type of Head 2 (C-B, M-B, Y-B, K-B).
	—	<ul style="list-style-type: none"> [Enter] key: Saves the setting and shifts to the initial hierarchy.  5.1 Setup menu [Cancel] key: Cancels the set value and shifts to the previous hierarchy.  5.1.27 Ink Type Menu

(2) Ink type selection

When using 4Color Single, the following is displayed after selecting Print head in Ink type menu.

Setup Item	Set Value	Description
Head 1 or Head 2	<VJ-DTSINK *>	Select this when using Dye Transfer Sublimation Ink.
	VJ-DPSINK *	Select this when using Direct Print Sublimation Ink.
	RJ-FGINK	Select this when using Water Pigment Ink.
	—	<ul style="list-style-type: none"> • [Enter] key: Saves the setting and shifts to the initial hierarchy.  5.1 Setup menu • [Cancel] key: Cancels the set value and shifts to the previous hierarchy.  5.1.27 Ink Type Menu

*Use this setting when using genuine ink.

5.2 Test Print menu

Performs nozzle check of the print head and setup list.

NOTE

When "Mode5", "Mode6", "Mode9", or "Mode10" is set in the PrintMode menu, "Palette" is not displayed on the Test Print menu.

☞ 5.1.1.1.1 PrintMode menu

TIP

- Refer to the following for the operation procedure of test print.

☞ 3.6 Test print

Setup item	Description
Nozzle Check	Perform the nozzle check printing. It is used to check whether there are any clogged heads, or missing or blurred prints. ☞ 3.6.1 Nozzle check
Mode Print	Mode print can be performed. Used to confirm the following printing conditions. <ul style="list-style-type: none"> Print quality Effect Adjustment value ☞ 3.6.2 Mode print
Setup List	Setup list printing is performed. Use it for checking the setup item of the printer. ☞ 3.6.3 Setup print
ALL Setup List	Setup list printing is performed. Use it for checking the setup item, user media and print mode of the printer. ☞ 3.6.3 Setup print
Palette	Palette printing is performed. Used to compare pen colors used on the computer to the printing colors. ☞ 3.6.4 Palette print
—	<ul style="list-style-type: none"> [Enter] key: "Printing" is displayed on the operation panel and test printing starts. [Cancel] key: shifts to the previous menu. ☞ 5 Panel setup menu

5.3 Adjust Print menu

Sets up when adjusting the printer for the optimum quality of image print (Alignment).

Alignment must be set every printing mode.

☞ 3.7 Adjust print

After the print mode to be used is selected, perform the alignment.

☞ 5.1.1.1.1 PrintMode menu

Setup item	Description
Confirmation pattern	Print the test pattern for the alignment.
Bi-D Normal	Sets up the setting when performing bidirectional printing in the normal mode.
—	<ul style="list-style-type: none"> • [Enter] key: "Printing" is displayed on the operation panel and test pattern printing starts. • [Cancel] key: shifts to the previous menu. <p>☞ 5 Panel setup menu</p>

5.4 Cleaning menu

Performs head cleaning.

TIP

- Head cleaning can be operated when the printer is Normal.
Refer to the following for operation procedures.

☞ 6.2.3 Head cleaning

Setup item	Description
Short	Discharges smaller amount of ink compared to "Normal".
Normal	Select this mode normally.
Long	Discharges larger amount of ink compare to "Normal". Used when the print head does not improve by normal Head cleaning.
Little Charge	Refills a small amount of ink. Charge a small amount of ink when printing is not stable after ink replenishment. ☞ 3.4 Installing ink cartridges
—	<ul style="list-style-type: none"> • [Enter] key: "Cleaning **%" is displayed on the operation panel and Head cleaning starts. Progress on the Head cleaning is displayed in % on the operation panel. However, if the head height set to High, "Set Height to Low" is displayed on the operation panel. Change the head height to Low. ☞ 4.2.5 Head height adjustment • [Cancel] key: shifts to the previous menu. ☞ 5 Panel setup menu

5.5 Menu Option menu

Sets up the contents of the Setup menu.

You can make setup items that you do not normally use invisible.

Switch the setting "On (displayed)" to "Off (undisplayed)" using the [<] key or [>] key on the operation panel.

When the setting is On, "*" is displayed on the operation panel.

NOTE


- Even if you select "Off" in the Menu Option menu, you can display the settings temporarily by selecting "Temporary" in the Setup menu.


☞ 5.1 Setup menu

- The following items are never displayed even when "ALL On" is selected.

- Feed

Setup item	Setting	Description
MediaType	<On>	Sets up whether to display the MediaType menu.
	Off	
Effect	<On>	Sets up whether to display the Effect menu.
	Off	
Spitting	<On>	Sets up whether to display the Spitting menu.
	Off	
Side Margin	<On>	Sets up whether to display the Side Margin menu.
	Off	
Media Set	<On>	Sets up whether to display the Media Set menu.
	Off	
Media Width	<On>	Sets up whether to display the Media Width menu.
	Off	
Take-up	On	Sets up whether to display the Take-up menu.
	<Off>	
Feed	<Off>	The Feed menu is not displayed in this printer.
Origin	<On>	Sets up whether to display the Origin menu.
	Off	
Prev. Stick	<On>	Sets up whether to display the Prev. Stick menu.
	Off	
Head Travel	<On>	Sets up whether to display the Head Travel menu.
	Off	
Multi Strike	<On>	Sets up whether to display the Multi Strike menu.
	Off	


Setup item	Setting	Description
Strike Wait	<On>	Sets up whether to display the Strike Wait menu.
	Off	
Slant Check	<On>	Sets up whether to display the Slant Check menu.
	Off	
Auto Cleaning	<On>	Sets up whether to display the Auto Cleaning menu.
	Off	
Smart / C Status	<On>	Sets up whether to display the Smart/C Status menu.
	Off	
Roll Length	<On>	Sets up whether to display the Roll Length menu.
	Off	
Longstore	<On>	Sets up whether to display the Longstore menu.
	Off	
CR Maintenance	<On>	Sets up whether to display the CR Maintenance menu.
	Off	
Initialization	<On>	Sets up whether to display the Initialization menu.
	Off	
Life Times	<On>	Sets up whether to display the Life Times menu.
	Off	
IP Address	<On>	Sets up whether to display the IP Address menu.
	Off	
Subnet Mask	<On>	Sets up whether to display the Subnet Mask menu.
	Off	
Gateway	<On>	Sets up whether to display the Gateway menu.
	Off	
Language	<On>	Sets up whether to display the Language menu.
	Off	
Temperature	<On>	Sets up whether to display the Temperature menu.
	Off	
InkSet	<On> / Off	Displays the pattern of ink colors that can be set into the ink slots.  5.1.26 InkSet menu
InkType	<On>	Sets up whether to display the InkType menu.
	Off	
ALL On		Displays all items in the Setup menu. <ul style="list-style-type: none"> Pressing the [Enter] key displays "*" for all items in the Menu Option menu.

Setup item	Setting	Description
ALL Off		No items in the Setup menu are displayed. <ul style="list-style-type: none">• Pressing the [Enter] key deletes "*" for all items in the Menu Option menu.• Even if you select "ALL Off", you can display the items temporarily by selecting "Temporary" in the Setup menu.
—		<ul style="list-style-type: none">• [Cancel] key: saves the setting and shifts to the previous menu.  5 Panel setup menu


5.6 Version menu

Displays the versions of main and controller firmware.

5.6.1 Version menu (main)

Setup item	Setting	Description
Ver. M	*.**	Displays the version of main firmware.
	—	<ul style="list-style-type: none"> [Cancel] key: cancels the setting and shifts to the previous menu.  5 Panel setup menu

5.6.2 Version menu (controller)

Setup item	Setting	Description
Ver. C	*.**	Displays the version of controller firmware.
	—	<ul style="list-style-type: none"> [Cancel] key: cancels the setting and shifts to the previous menu.  5 Panel setup menu

5.7 Sleep Mode menu

Sleep mode settings are configured.

When you activate sleep mode, the printer operates as follows.

- The vacuum fan stops.
- All lamps turn off except for the power lamp.
- Automatic head cleaning is performed after the time set in the Set Timer menu has elapsed.

☞ 5.7.1 Set Timer menu

TIP

- The cleaning mode reflects the settings in the operation panel.

☞ 6.2.3 Head cleaning

Setup item	Setting	Description
Sleep Mode	Set Timer	Set the auto cleaning interval of this printer for Sleep Mode. ☞ 5.7.1 Set Timer menu
	Start	Activate Sleep Mode ☞ 5.7.2 Sleep Mode Start menu
	—	<ul style="list-style-type: none"> • [Cancel] key: shifts to the previous menu. ☞ 5.1 Setup menu

5.7.1 Set Timer menu

Set the head cleaning interval of this printer for Sleep Mode.

When more than the set time has passed, the print head is cleaned automatically.

NOTE

- During Sleep Mode, even if the set amount of time has passed, print-head cleaning is not performed under the following circumstances.
 - The front cover is open.
 - The media loading lever is raised.
 - The waste fluid tank is full.
 - The ink cartridge is empty.
 - The ink cartridge has been removed.
 - An object other than an appropriate ink cartridge is inserted in the cartridge slot, etc.

When the printer returns to a normal state, head cleaning is restarted, and Sleep Mode continues.

☞ 7.2 Error messages

- If one of the above conditions occurs during head cleaning, cleaning is stopped.
When the printer returns to a normal state, head cleaning is restarted.

☞ 7.2 Error messages

Setup item	Setting	Description
Set Timer	1h	When the set time has elapsed, the head cleaning starts.
	2h	
	3h	
	4h	
	5h	
	<6h>	
	9h	
	12h	
	18h	
	24h	
	—	

5.7.2 Sleep Mode Start menu

Activate Sleep Mode

During Sleep Mode, "Restart → Enter" will be displayed in the operation panel.

During Sleep Mode, pressing [Enter] key will return the printer to normal operation.

NOTE

- If the printer is under one of the following conditions while shifting to the Sleep Mode, "Don't Start Sleep Mode" is displayed, and will not shift to the Sleep Mode.
 - The front cover is open.
 - The media loading lever is raised.
 - The waste fluid tank is full.
 - The ink cartridge is empty.
 - The ink cartridge has been removed.
 - An object other than an appropriate ink cartridge is inserted in the cartridge slot, etc.


Activate Sleep Mode again after returning the printer to a normal state.

 7.2 Error messages

- If the printer is under one of the conditions above during the Sleep mode, the printer will not return to the Normal condition even pressing the [Enter] key.

Return the printer to a normal state, and press the [Enter] key to return the printer to normal operation.

 7.2 Error messages

Setup item	Setting	Description
Start	Start Sleep Mode?	<ul style="list-style-type: none"> • [Enter] key: activates Sleep Mode. • [Cancel] key: shifts to the previous menu without activating Sleep Mode.  5.7 Sleep Mode menu
	Restart → Enter	<p>The printer is in Sleep Mode.</p> <ul style="list-style-type: none"> • [Enter] key: return the printer to normal operation.

6 Maintenance

This chapter describes daily maintenance of the product.

6.1 Replacing consumable components

This section describes when and how to replace the ink cartridges, roll media and flushing-box sponges.

6.1.1 Replacing ink cartridges

This section describes when to replace the ink cartridges.

(1) Replacement time

When "[*****] InkEnd" is displayed on the operation panel, follow the procedures described below.

- This message is displayed when there is no ink remaining in the ink cartridge.
- The alarm buzzer sounds.
To stop the buzzer, press the [Enter] key on the operation panel.
- Immediately replace it with the new ink cartridge.

NOTE

- [*****] in the messages for ink cartridge replacement indicates the color that runs out, using the following characters.
The number of ink cartridge slot (the number shown on the sticker attached to the front side of each slot) is displayed.
 - 1: Ink cartridge in the slot No. 1
 - 2: Ink cartridge in the slot No. 2
 - 3: Ink cartridge in the slot No. 3
 - 4: Ink cartridge in the slot No. 4
 - 5: Ink cartridge in the slot No. 5
 - 6: Ink cartridge in the slot No. 6
 - 7: Ink cartridge in the slot No. 7
 - 8: Ink cartridge in the slot No. 8
 - ALL: All ink cartridges
- Do not insert or remove the ink cartridge except at the time of replacement.
Inserting or removing the ink cartridge mixes air into the ink tube, and failures such as nozzle clogging trouble may occur.
- If "Ink End" is displayed, the printing operation stops.
- If "Ink End" is displayed, you cannot print until inserting the new ink cartridge.
- If there is no cartridge for replacement at hand, leave the empty ink cartridge inserted in the printer.
Leaving the printer with the ink cartridge removed may result in clogging of the print head.

(2) Type

For details of the recommended ink, contact your local MUTOH dealer.

NOTE

- Use genuine ink for replacement.
- This printer is designed to use genuine ink.
 - If you use products other than MUTOH genuine parts, the print quality cannot be guaranteed.
 - Any problems caused by using the products other than those recommended will not be covered by the warranty, and repair expenses will be paid by the customer.

(3) Replacing steps

Follow the procedure below to replace the ink cartridges.

The procedure for replacing the ink cartridge in the slot No. 1 is described below.

CAUTION

- **When handling ink cartridges, pay attention so that ink does not get into your eyes or stick to your skin.**
If ink gets into your eyes or sticks to your skin, immediately wash it off with water.
Failing to do so might cause irritation or light inflammation of eyes.
In case of any abnormality, consult a physician immediately.
- **Do not disassemble ink cartridges.**
If disassembled, there is a possibility that ink might come into contact with eyes or skin.

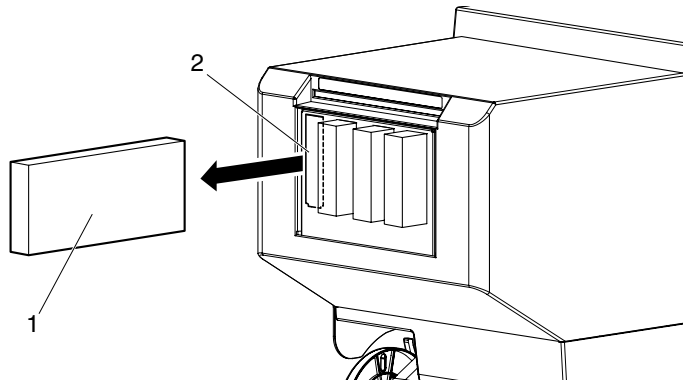
NOTE

- Do not give ink cartridges strong shakes.
Doing so may cause ink leakage.
- Do not disassemble ink cartridges.
A disassembled ink cartridge cannot be used.
- When an ink cartridge is moved from a cold place to warm place, keep the ink cartridge for three hours or more in the new printing environment before printing.
- Do not refill an ink cartridge with ink.
It may result in abnormal printing.
- Insert or remove the ink cartridge at the time of replacement only.
Inserting or removing the ink cartridge except at the time of replacement may result in incorrect printing.

1. Confirm that the printer is turned ON.
2. Remove the ink cartridge that you want to replace.

NOTE

- Used ink cartridge should be put in a plastic bag, etc, and dispose of it in compliance with local ordinance and instructions of local authorities.



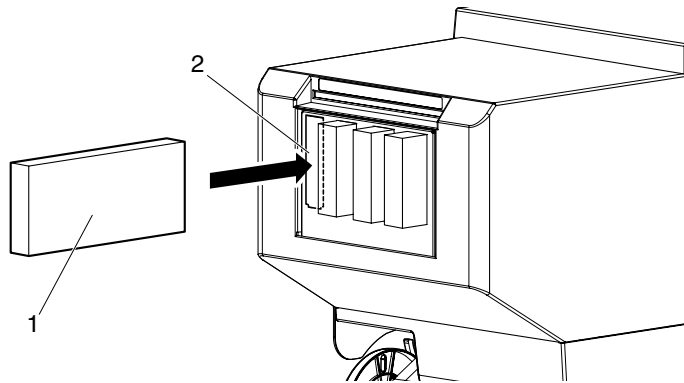
No.	Name
1	Ink cartridge
2	Ink cartridge slots

3. Take out the new ink cartridge.

NOTE

- Open the bag just before attaching the ink to the ink cartridge slot.
Leaving the ink with the bag open for a long time may result in abnormal printing.
- Use the ink within two years from the date printed on the package.
Using an ink after this period may affect print quality.
- Replace the ink cartridge six months after installing it in the printer.

4. Shake new ink cartridge two to three times gently before inserting it into the ink cartridge slot.



No.	Name
1	Ink cartridge
2	Ink cartridge slots

5. Confirm that the operation panel returns to Normal.

NOTE

- If the ink cartridge is replaced during printing, printing resumes.

- Ink cartridge replacement is complete.

6.1.2 Replacing roll media

This section describes when to replace the roll media.

(1) Replacement time

Replace the roll media when the following situation occurs.

- When the roll media loaded in the printer runs out
 - "End Of Roll" is displayed on the operation panel.
 - If media runs out during printing, the printer stops printing.
- When you want to change the media type to use

(2) Type

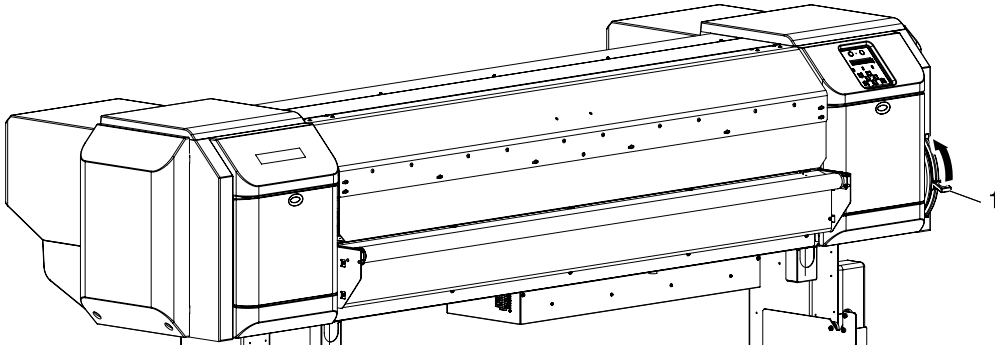
TIP

- For types and details of the roll media, refer to "8.3 Options/Supply list".

(3) Replacing steps

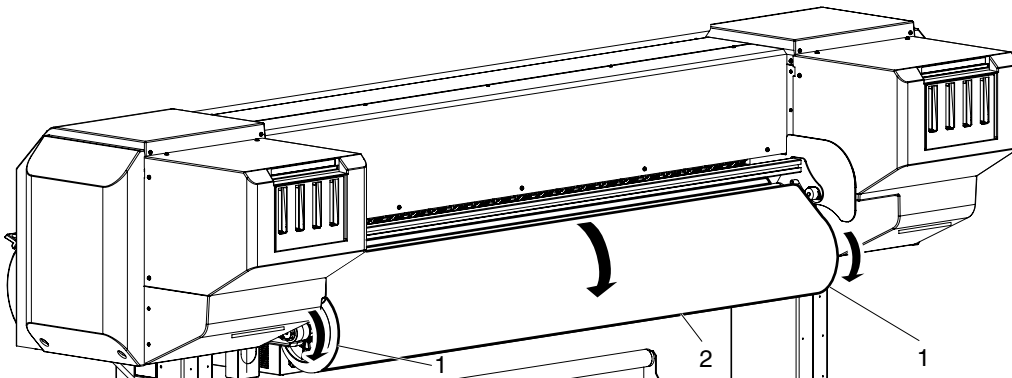
Follow the procedure below to replace the roll media.

1. If the printer is turned ON, confirm that operation such as printing is not in progress.
2. Raise the media loading lever.



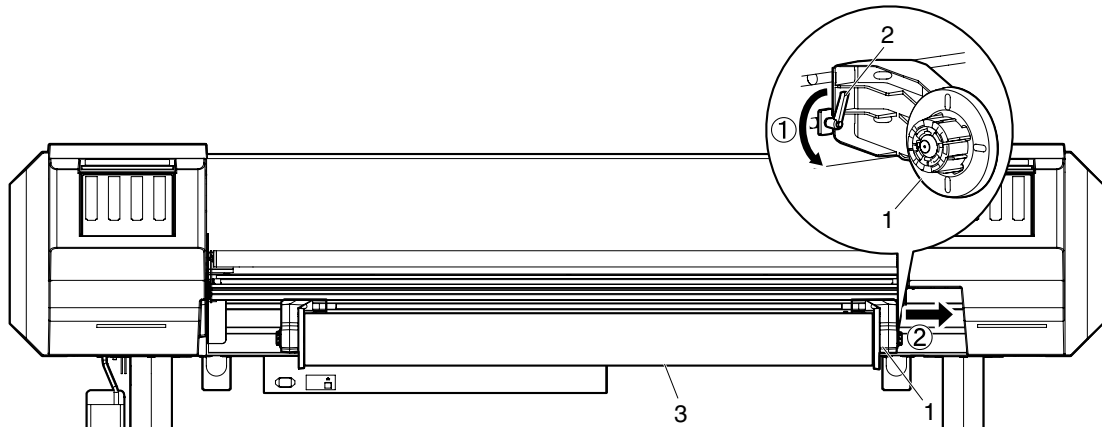
No.	Name
1	Media loading lever

3. Turn the flanges of the roll media holder and take up the roll media.



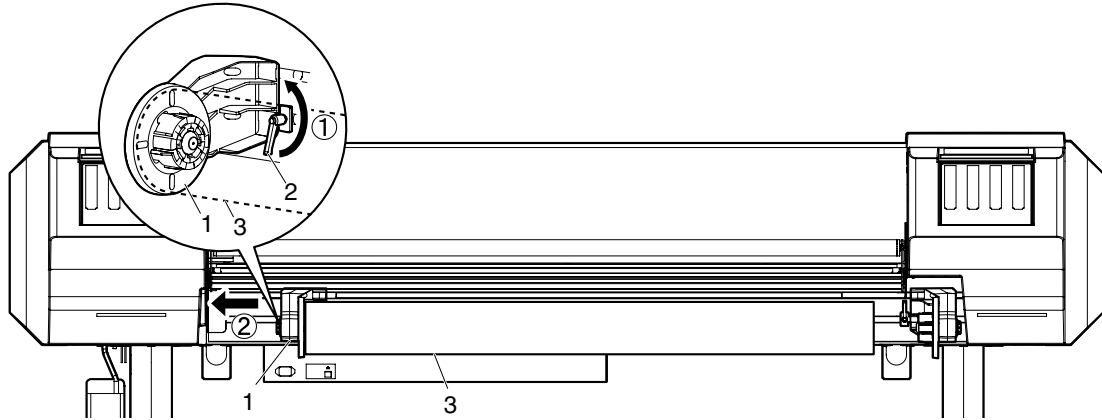
No.	Name
1	Roll media holder
2	Roll media

- Loosen the lever of the right roll media holder and remove the media.



No.	Name
1	Right roll media holder
2	Fixing lever
3	Roll media

- Take the same procedure as in step 4, remove the roll media from the left roll media holder.



No.	Name
1	Left roll media holder
2	Fixing lever
3	Roll media

6. To load another roll media, refer to the following.

TIP

- For loading roll media, refer to "3.5 Setting media".
- For storing roll media not in use, refer to "4.2.3 Precaution on storing media".

- Roll media replacement is complete.

6.1.3 Replacing the flushing-box sponges

This section explains how to replace the flushing-box sponges.

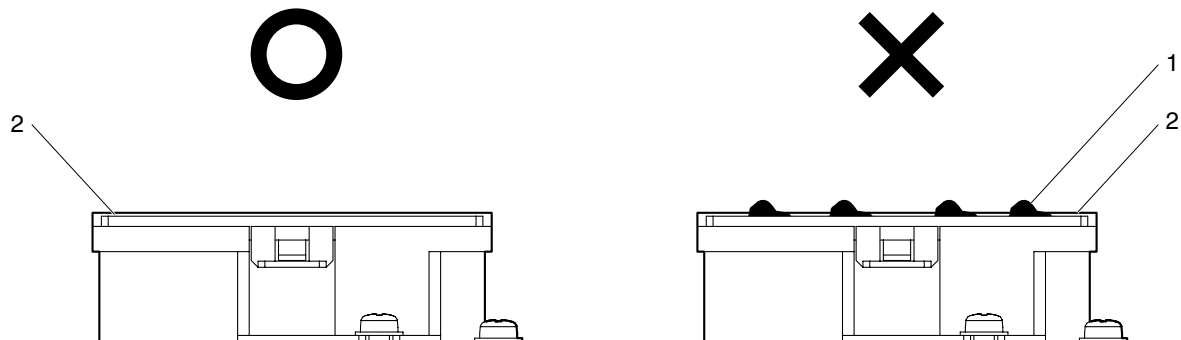
NOTE

- Make sure to install the flushing-box sponges in the printer. The flushing-box sponges are an essential part to make printing consistent.

(1) Replacement time

Replace the flushing-box sponges in the following situations.

- When ink clumps have accumulated on the flushing-box sponges beyond the flushing-box frame



No.	Name
1	Ink clump
2	Flushing-box frame

(2) Type

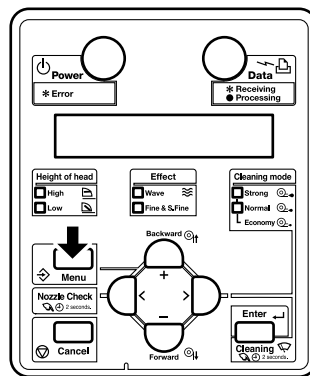
TIP

- For types and details of the flushing-box sponge, refer to "8.3 Options/Supply list".

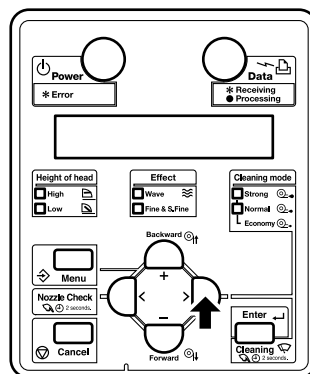
(3) Replacing steps

Follow the steps below to replace the flushing-box sponges.

1. Verify the following regarding the operational condition of the product.
 - Printing or other operations are not in progress.
 - The operation panel display is Normal.
2. Display the CR Maintenance menu on the operation panel.
 - a. Press the [Menu] key on the operation panel.

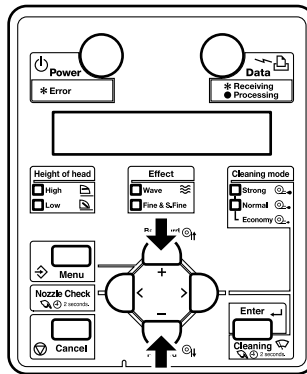


- "Menu 1: Setup>" is displayed on the operation panel.
 - The operation panel shifts to the Setup menu display.
- b. Press the [>] key on the operation panel.

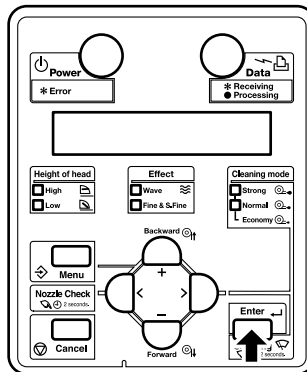



- "Set1: MediaType" is displayed on the operation panel.

- c. Press the [+] key or [-] key to select "Set19: CR Maintenance".

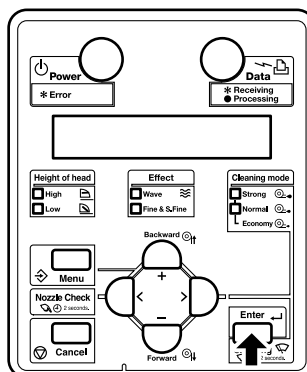


- d. Press the [Enter] key on the operation panel.



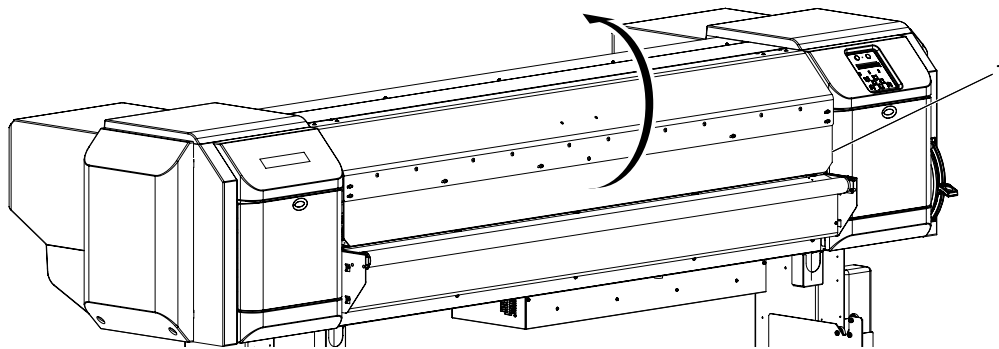
- "CR Mainte.: Start" is displayed on the operation panel.
- The display enters the CR Maintenance menu.
 5.1.18 CR Maintenance menu

3. Press the [Enter] key on the operation panel.



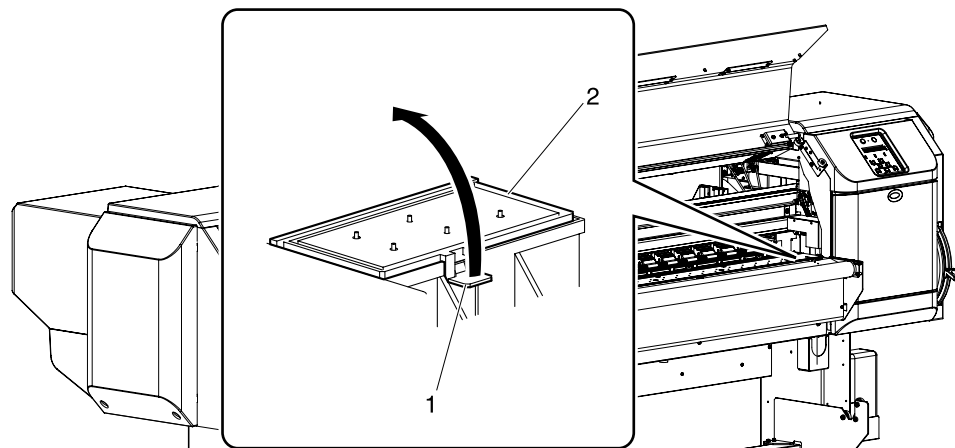
- Maintenance starts.
- The print head moves to the left.
- "CR Maintenance: End" is displayed on the operation panel.

4. Open the front cover.



No.	Name
1	Front cover

5. Lift the flushing-box sponge hook and release the hook. Then, remove the flushing-box sponge holder.

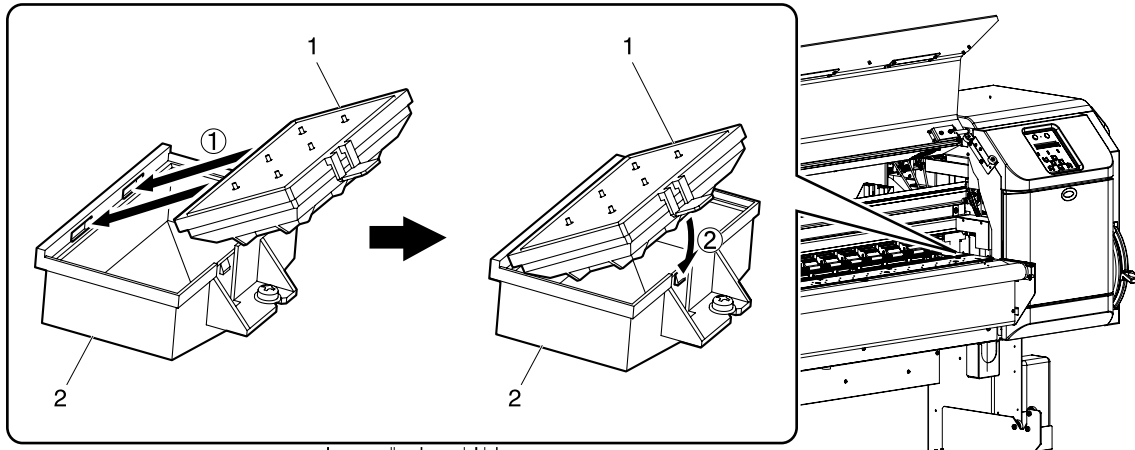


No.	Name
1	Flushing-box sponge hook
2	Flushing-box sponge holder

CAUTION

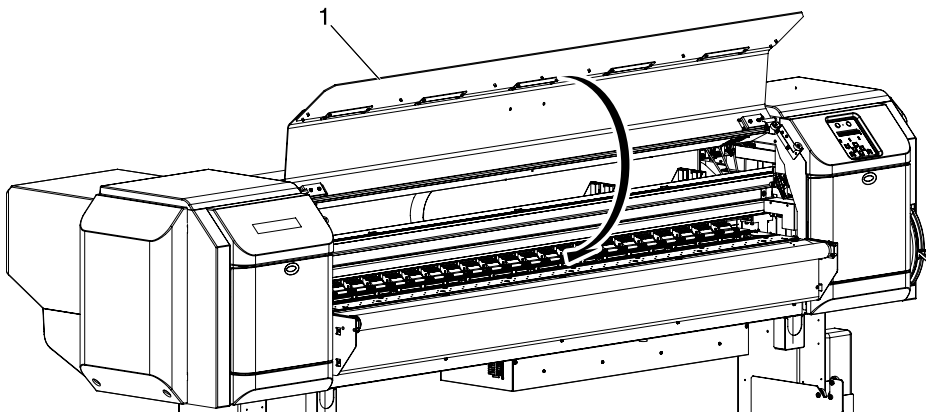
- Do not drop waste fluid when replacing the flushing-box sponges. If waste fluid comes into contact with the grid roller, the surface of the grid roller will be damaged, and the media feed function may be affected.

6. Install the new flushing-box sponge to each flushing box.



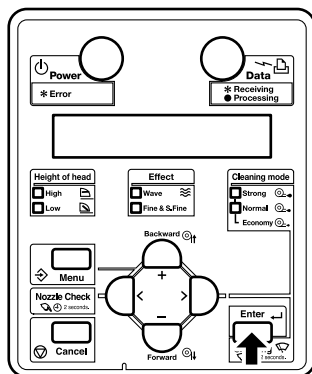
No.	Name
1	Flushing boxes
2	Flushing-box sponges

7. Close the front cover.



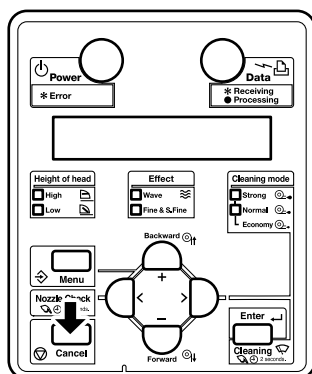
No.	Name
1	Front cover

8. Press the [Enter] key on the operation panel.



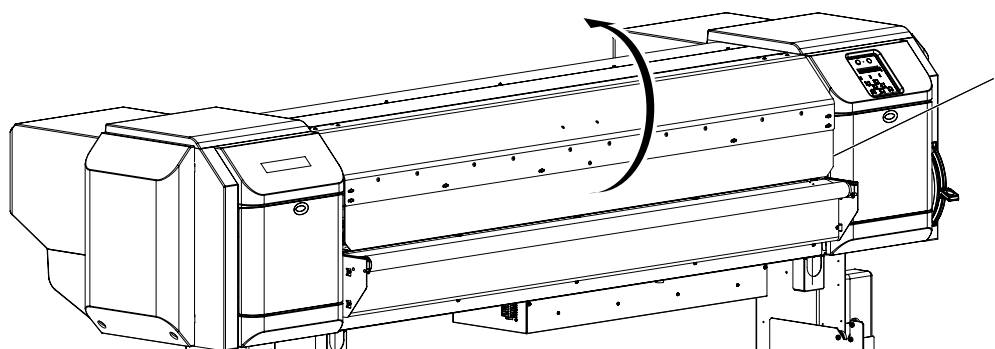
- The print head returns to its original position.
- "CR Mainte.: Start" is displayed on the operation panel.

9. Press the [Cancel] key on the operation panel several times.



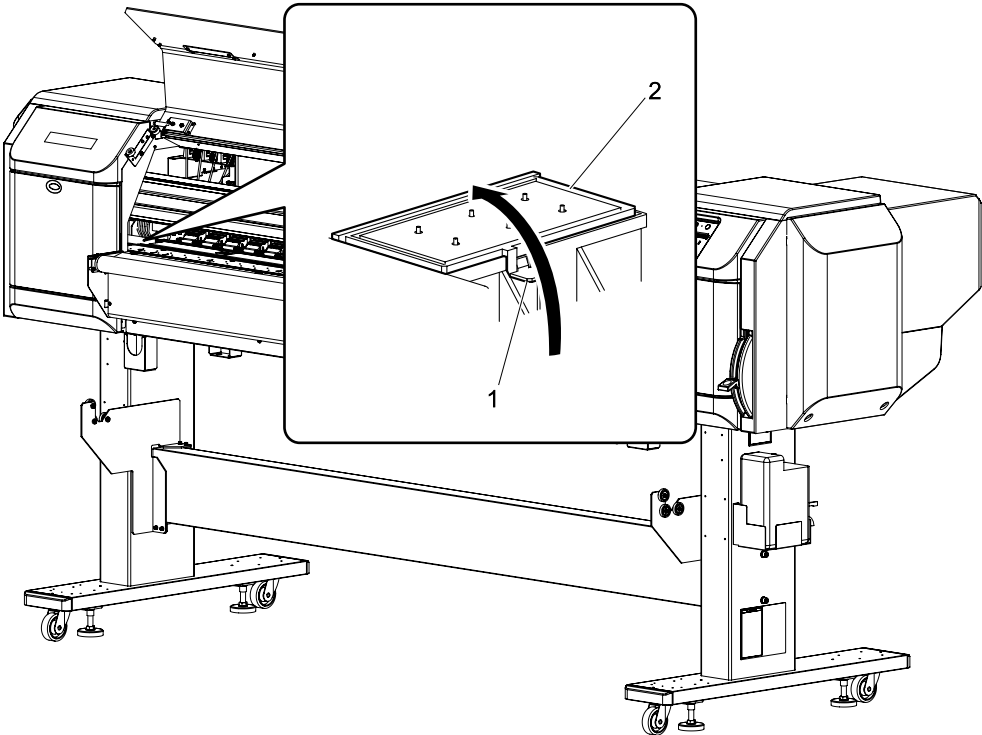
- The printer enters Normal.

10. Open the front cover again.



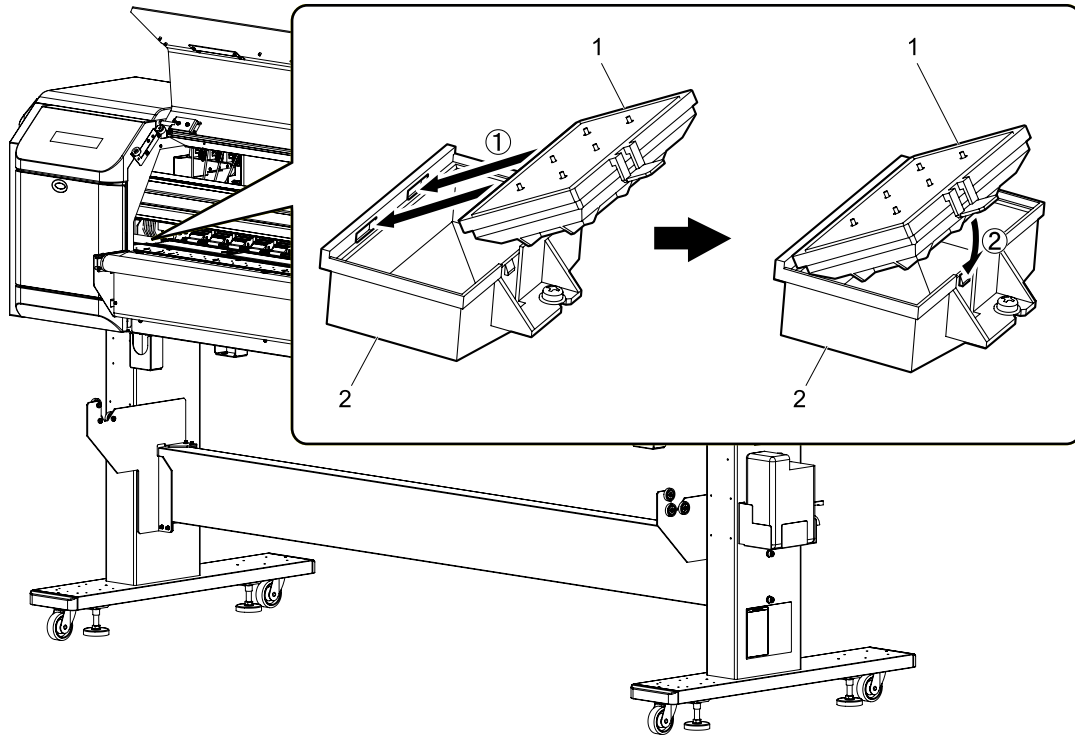
No.	Name
1	Front cover

11. Lift the flushing-box sponge hook located on the other side of the origin to release the hook. Then, remove the flushing-box sponge holder.



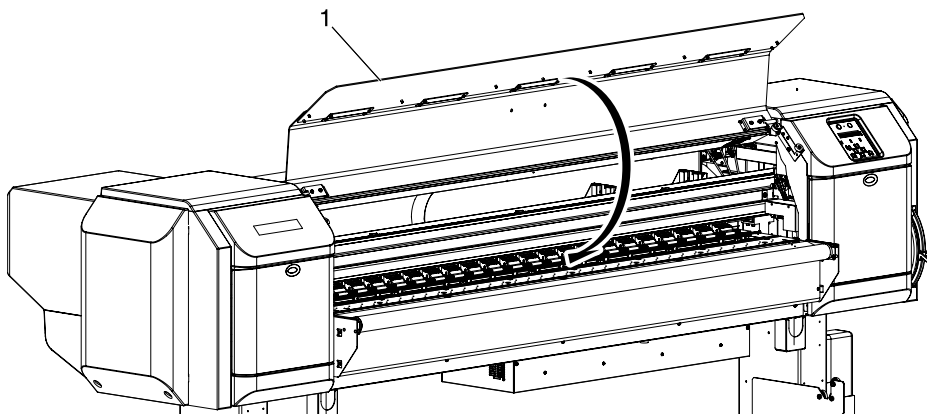
No.	Name
1	Flushing-box sponge hook
2	Flushing-box sponge holder

12. Install the new flushing-box sponge to each flushing box.



No.	Name
1	Flushing boxes
2	Flushing-box sponges

13. Close the front cover.



No.	Name
1	Front cover

- Flushing-box sponge replacement is complete.

6.2 Cleaning the printer

Periodic (every month) cleaning is necessary to use the printer in good condition.

WARNING

- **Do not insert or drop metal or flammable objects into the printer through openings such as a vent.**
It could lead to an electric shock or fire.
- **If foreign substances or liquids such as water entered the printer, do not use the printer as it is.**
It could lead to an electric shock or fire.
Immediately turn OFF the power switch, disconnect the power plug from the electric socket, and contact your local MUTOH dealer.

CAUTION

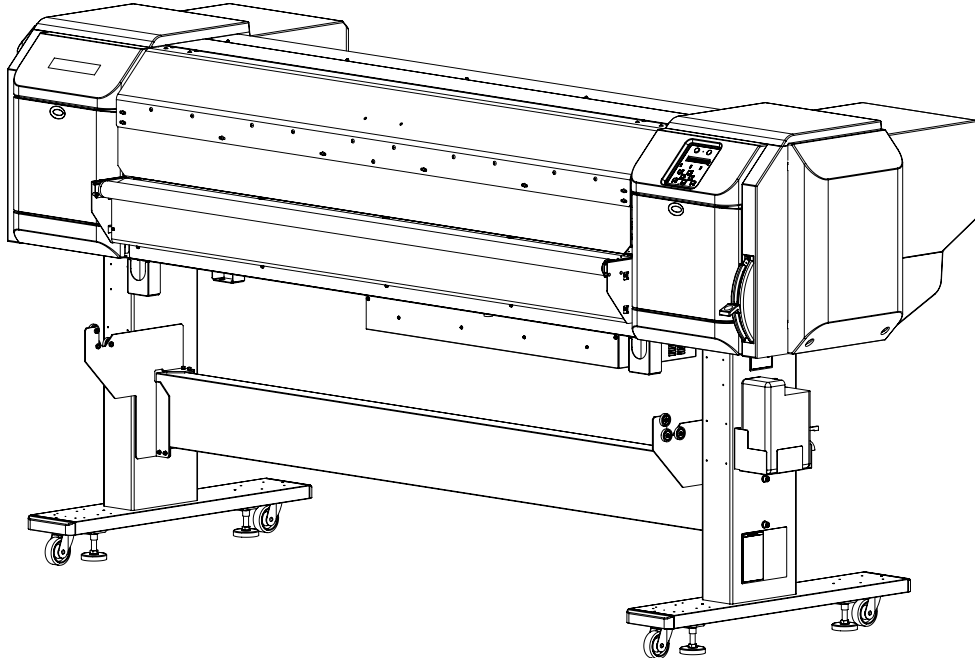
- **When cleaning the printer, be sure to turn OFF the power and disconnect the power plug.**
- **Do not use volatile solvents such as thinner, benzene, or alcohol.**
These solvents could cause damage to the paint.
- **Be careful that no moisture enters the printer.**
There is a possibility that the electric circuit inside the printer is short circuited.
- **Do not open covers attached using screws under any circumstances.**
This may cause an electric shock or a malfunction.

This section describes how to clean the printer.

6.2.1 Cleaning the outer case

This section describes how to clean the outer case.

Wipe out dust and dirt attached to the outer case by using a soft cloth.

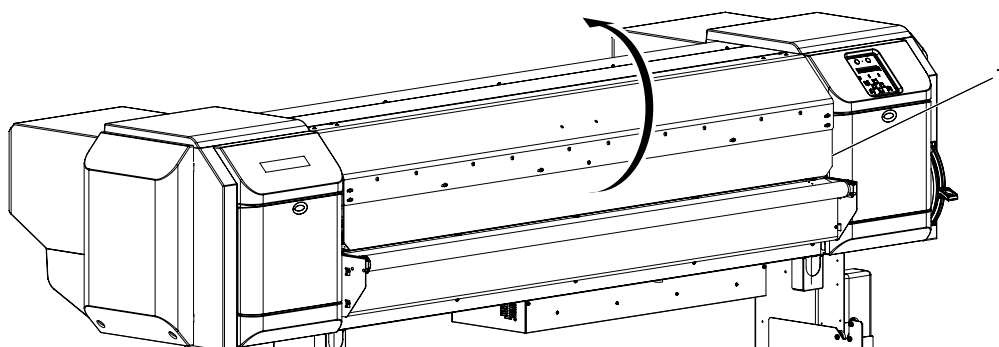


6.2.2 Cleaning the inside of the printer

This section describes how to clean the inside of the printer.

Follow the procedure below.

1. Open the front cover.

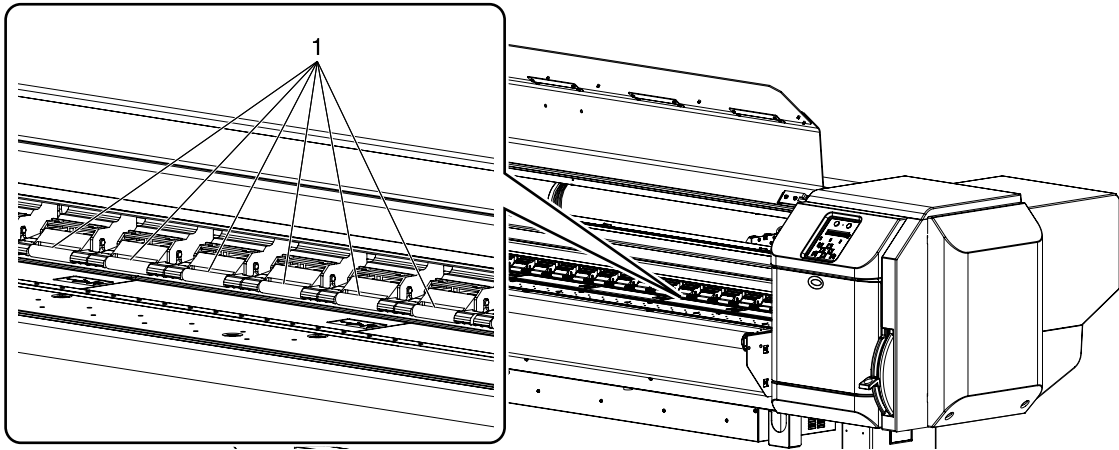


No.	Name
1	Front cover

2. Remove paper powder and dust attached to the pressurizing rollers using a soft brush.

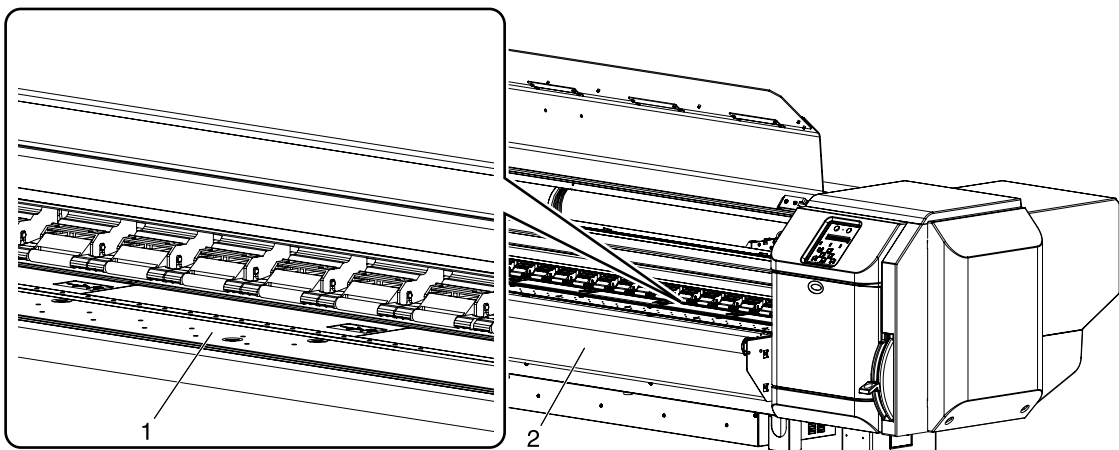
NOTE

- Do not blow paper powder inside the printer using tools such as an air duster. It may cause an abnormal noise from the inside of the printer.



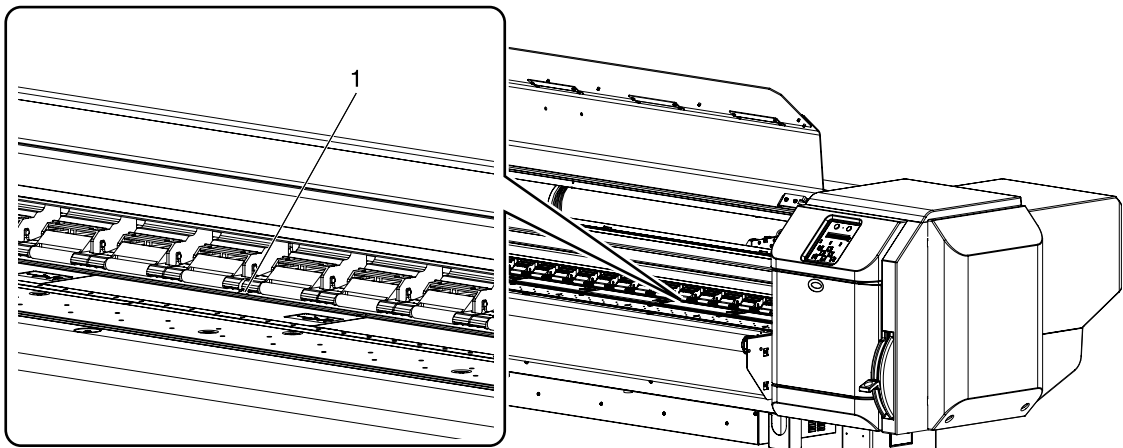
No.	Name
1	Pressurizing rollers

3. Apply a damp and tightly squeezed soft cloth to wipe out paper powder and ink attached to the platen and media guide.



No.	Name
1	Platen
2	Media guide

- Apply a damp and tightly squeezed soft cloth to wipe off the dirt of the unpainted (silver color) area in the center of the grid roller.



No.	Name
1	Grid roller

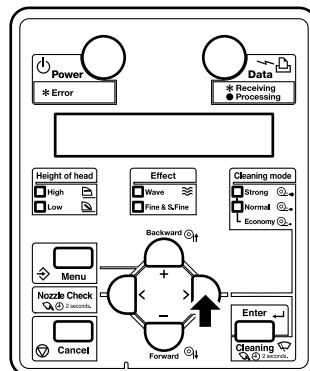
6.2.3 Head cleaning

If any portion of the printed image blurs or is missing, perform Head cleaning as follow.

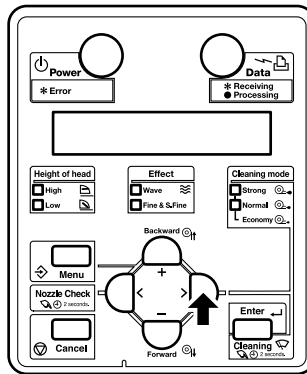
NOTE

- When the printer is not used for a long period of time (over a week), perform Head cleaning once a week.
Lack of head cleaning will cause clogged nozzles, and optimum printing results may not be obtained.

- Make sure that the operation panel shows "Ready to Print".
- Check that the media loading lever is lowered.
- Press the [>] key on the operation panel to select the cleaning mode.



4. Press and hold the [Cleaning] key on the operation panel for at least two seconds.



- If the head height is set to High, the operation panel shows "Change Head Gap Low". Change the head height to Low.
 ↳ 4.2.5 Head height adjustment
- Start head cleaning.
- The operation panel shows "Cleaning **%".
- After head cleaning is completed, the operation panel shows "Ready to Print".

NOTE

- To perform head cleaning when the head is set to "high" during the printing job, follow the procedures below.
 - After the operation panel shows "Change Head Gap Low", switch the head height to "Low".
 - When the head cleaning is completed, the operation panel shows "Change Head Gap High". Then switch the head height to "High". After the head height is switched, the printing job will restart.
- If you see the same results a second time (blur image and missing portion of the image), perform Strong cleaning.
- If you see the same results (blur image and missing portion of the image) after several times of Head cleaning, refer to " 7 Troubleshooting" and take appropriate measures.

6.2.4 Cleaning the cleaning wiper unit

This section describes how to clean the cleaning wiper and surrounding area.

(1) Time for cleaning

Once a week, or when blurs or lacking parts appear on printed media after Head cleaning.

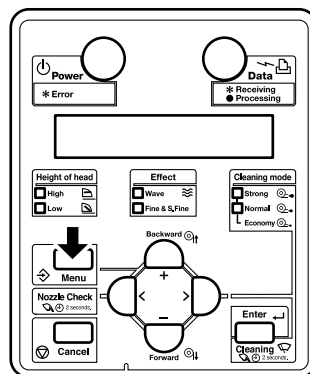
(2) Cleaning procedures

Follow the procedure below to clean the cleaning wiper and the surrounding area.

NOTE

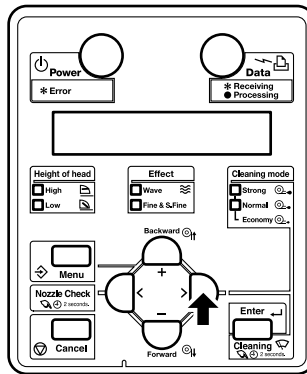
- Use the cleaning stick to clean the cleaning wiper and surrounding area.
For details of the cleaning stick, refer to "8.3 Options/Supply list".

1. If the printer is turned ON, make sure the following.
 - Printing or other operations are not in progress.
 - The operation panel display is Normal.
2. Display the CR Maintenance menu on the operation panel.
 - a. Press the [Menu] key on the operation panel.

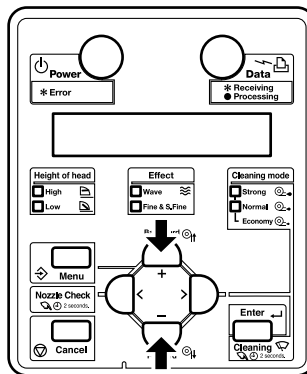


- "Menu 1: Setup>" is displayed on the operation panel.
- The operation panel shifts to the Setup menu display.

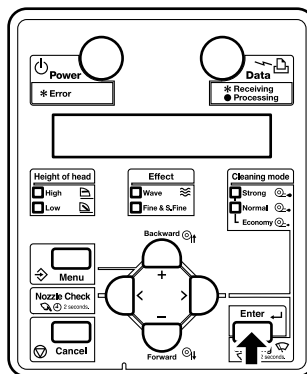
- b. Press the [>] key on the operation panel.




- "Set1: MediaType" is displayed on the operation panel.
- c. Press the [+] key or [-] key to select "Set19: CR Maintenance".

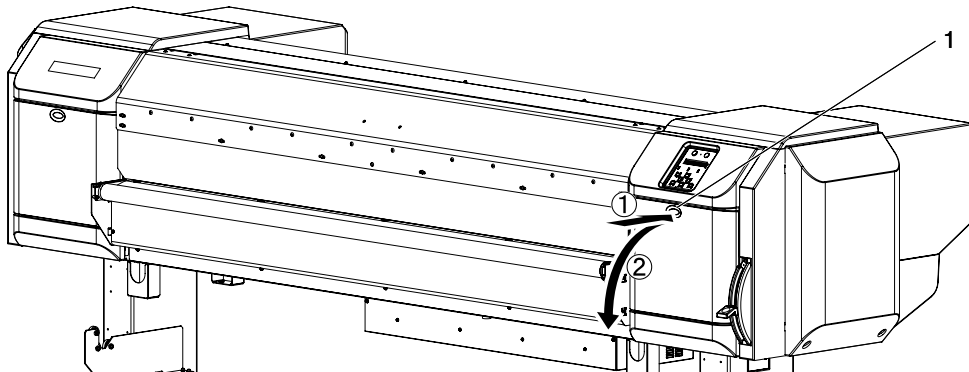


- d. Press the [Enter] key on the operation panel.



- "CR Mainte.: Start" is displayed on the operation panel.
-  5.1.18 CR Maintenance menu

3. Press the [Enter] key on the operation panel.
 - Maintenance starts.
 - The print head moves to the left.
 - The cleaning wiper unit is up.
 - "CR Maintenance: End" is displayed on the operation panel.
4. Open the maintenance cover on the right of the printer.



No.	Name
1	Maintenance cover

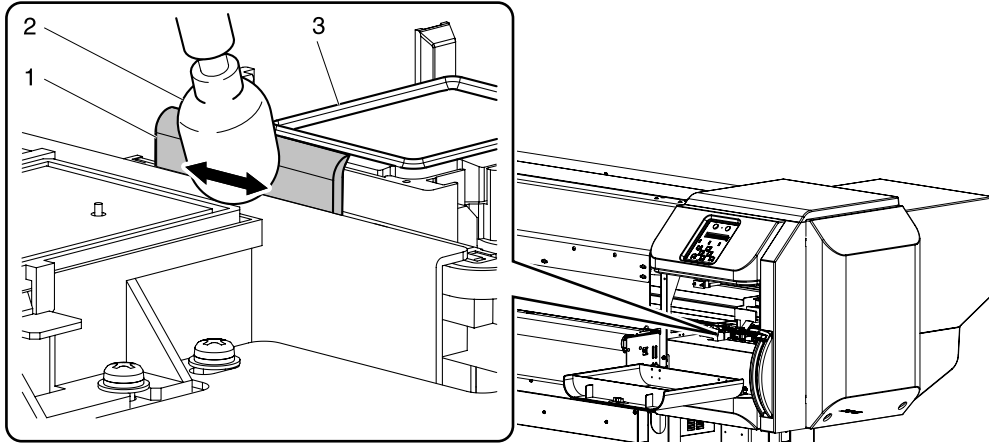
CAUTION

- **When cleaning the cleaning wiper**
 - **Do not touch the cleaning wiper and head cap unit.**
Head cleaning may not be performed correctly because of oil from your hands.
 - **Make sure to wipe the print head using the cleaning stick.**
A wet cleaning stick may cause the print head to clog.

5. Use the cleaning stick to remove the ink clump and dust on the cleaning wiper.

a. Cleaning wiper left side:

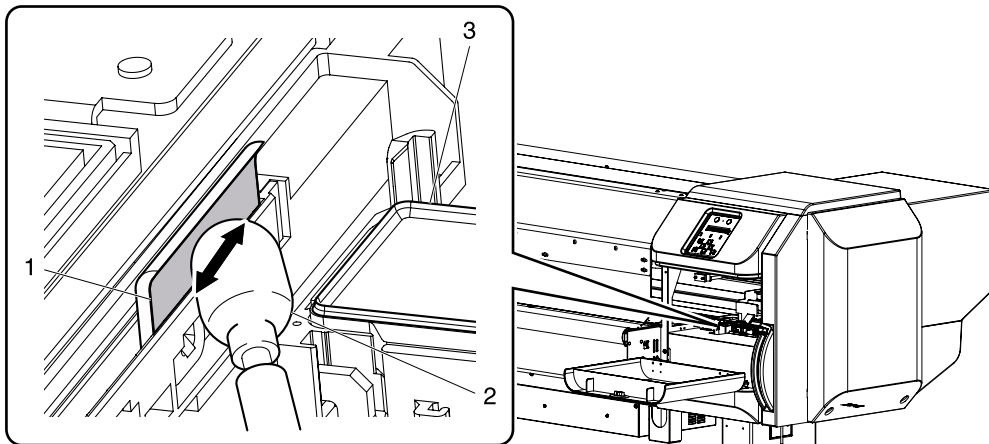
Remove the ink and dust from the front and back.



No.	Name
1	Cleaning wiper left side
2	Cleaning stick
3	Head cap unit

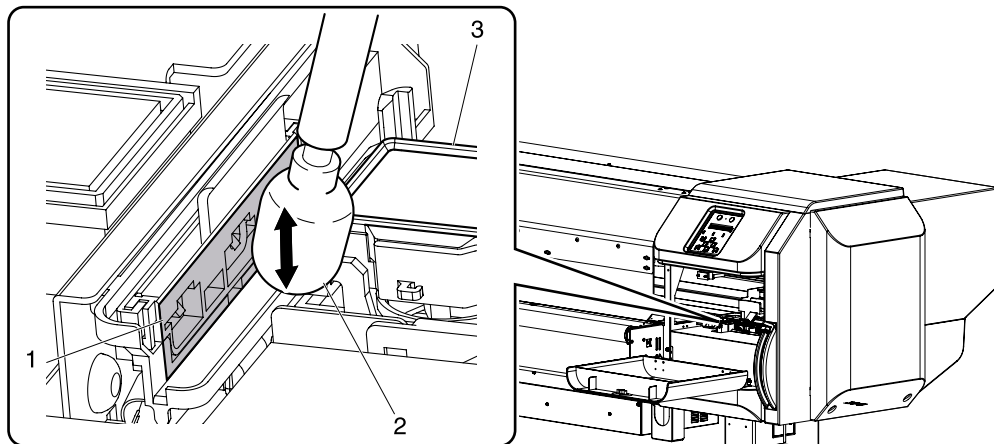
b. Cleaning wiper right side:

Remove the ink and dust from the front and back.



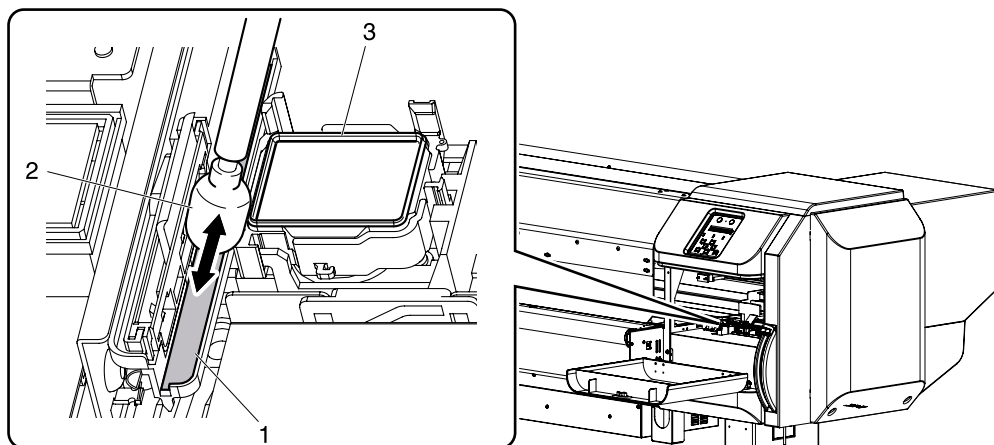
No.	Name
1	Cleaning wiper right side
2	Cleaning stick
3	Head cap unit

- c. Cleaning wiper unit right side surface:
Clean the right side surface of the cleaning wiper unit.



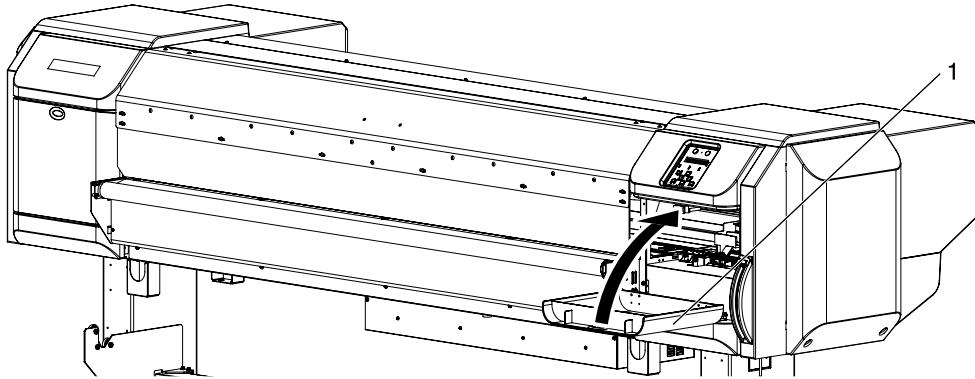
No.	Name
1	Cleaning wiper right side surface
2	Cleaning stick
3	Head cap unit

- d. Cleaning wiper unit lower groove:
Clean the cleaning wiper unit's lower side groove starting at the back and moving towards the front.



No.	Name
1	Cleaning wiper lower groove
2	Cleaning stick
3	Head cap unit

6. Close the right maintenance cover.
- Close the cover firmly until it is locked.



No.	Name
1	Maintenance cover

- Cleaning of the cleaning wiper and surrounding area is complete.

TIP

- Press the [Cancel] key if cleaning the cleaning wiper unit and around the print head is not performed.

7. After cleaning is completed, press the [Enter] key on the operation panel.
- The print head returns to its original position.
 - The cleaning wiper unit is down.

6.2.5 Cleaning the ink gutter

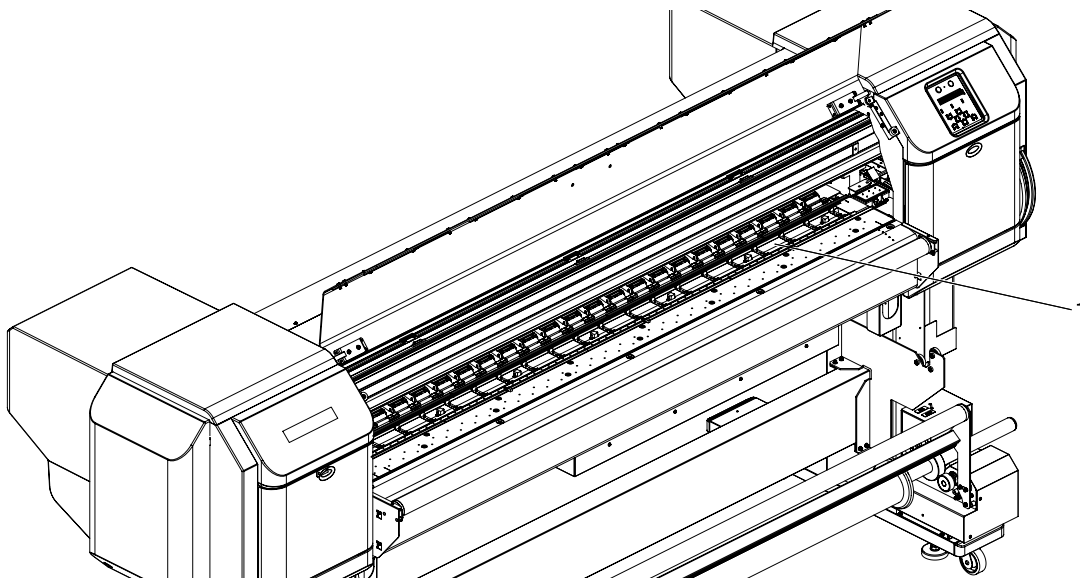
This section describes how to clean the ink gutter.

(1) Time for cleaning

When the ink gutter cover is removed during printing, check and clean inside the ink gutter at the end of each day's work or every time when the media is replaced.

(2) Cleaning method

Wipe out inside the ink gutter with soft cloth such as a waste cloth.



No.	Name
1	Ink gutter

6.3 Disposal of waste fluids

The timing and method for the disposal of waste fluid are described below.

(1) Disposal timing

Dispose of waste fluids in the following cases:

- a. When the waste fluid tank is more than half full.
- b. When "Waste Ink Tank Full" is displayed on the operation panel.

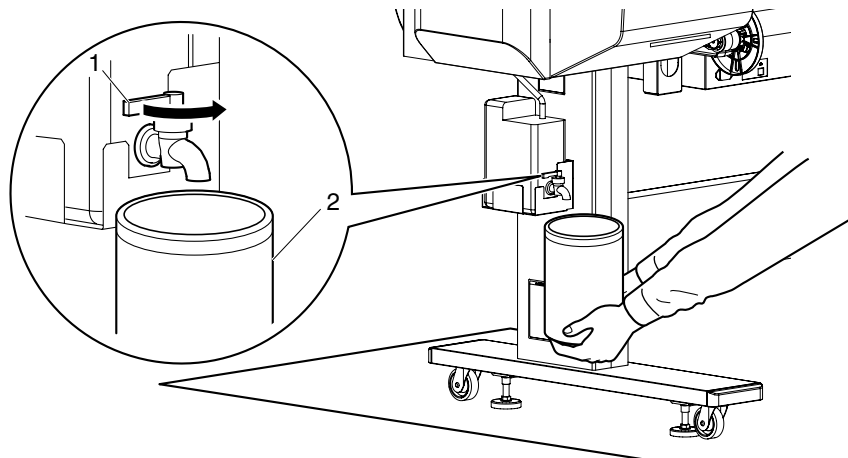
(2) Disposal method

Follow the procedure below to dispose of waste fluid.

1. Ready an empty container such as a supply waste fluid bottle, to contain the waste fluid.
2. Lay a protective material on the floor under the waste fluid tank.
3. Open the waste fluid valve, and transfer the waste fluid to the container.

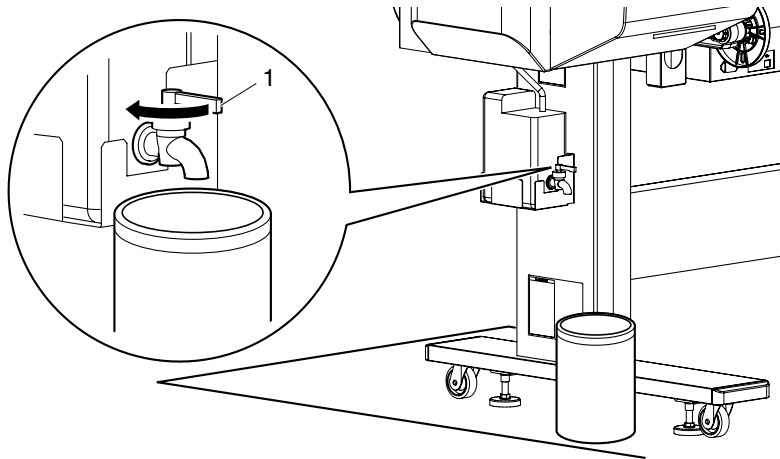
NOTE

- When transferring the waste fluid to the empty container, the waste fluid may spatter. Make sure to put the container close to the waste fluid valve.



No.	Name
1	Waste fluid valve
2	Empty container

4. After pouring the waste fluid to the empty container, close the waste fluid valve securely.



No.	Name
1	Waste fluid valve

5. Wipe the opening of the waste fluid valve with a cloth, etc.
6. Dispose of the waste fluid as an industrial waste product.
- Disposal of waste fluids is completed.

6.4 Moving or transporting the printer

This section describes how to move or transport the printer.

6.4.1 Moving the printer

This section describes how to move the printer.



CAUTION

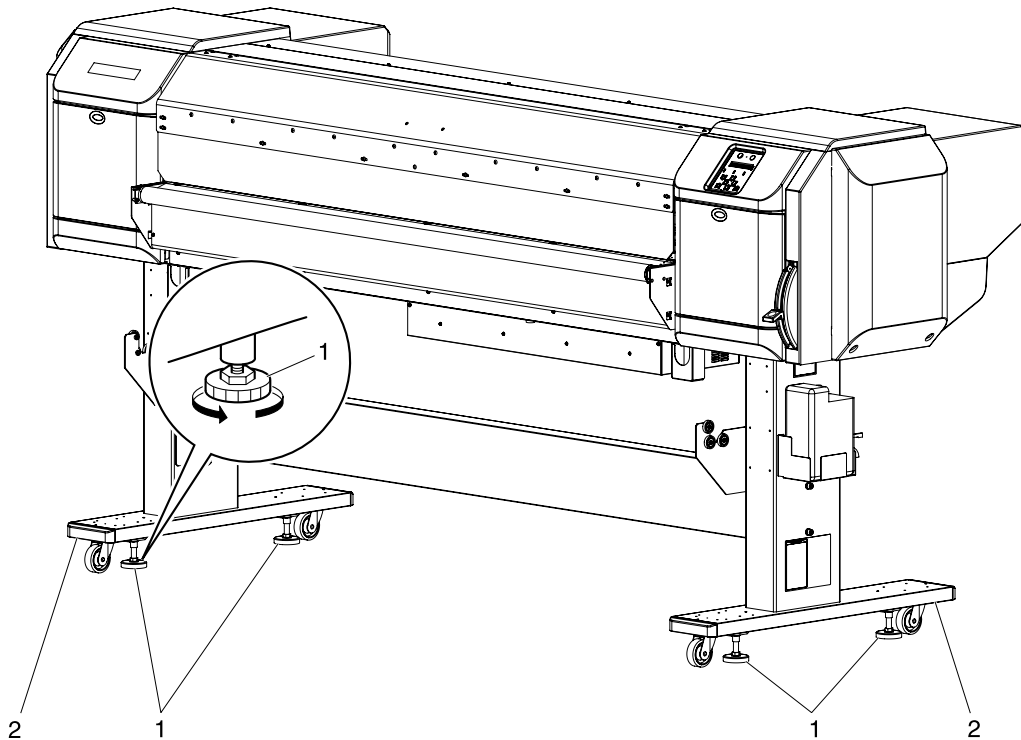
- **Move the printer maintaining a horizontal position.**
 - **Do not slant the printer, prop it against a wall or turn it upside down. There is a possibility that ink inside the printer may leak. Moreover, normal operation after shifting (to these positions) cannot be guaranteed.**
-

(1) Preparation before moving

When using the dedicated stands, follow the procedure below to move the printer.

1. Make sure that the printer is turned OFF.
☞ 3.2.2 Turning the power OFF
2. Dispose of waste fluid.
☞ 6.3 Disposal of waste fluids
3. Remove all the cables, such as the power cable.

4. Loosen the four adjusters of the stand as shown in the next illustration.



No.	Name
1	Adjusters
2	Stands

5. Move the printer.

NOTE

- The casters supplied with the dedicated stand are manufactured for little movement in flat indoor areas, not for transporting equipment.

(2) Reinstalling

After moving the printer, follow the procedure below to set it ready for use.

1. Select a suitable place for installation.
☞ Installation manual
2. Move and install the printer to the location.
3. Attach cables, such as the power cable.
☞ 3.1 Power cable connection
☞ 3.8 Connecting the printer to PC

4. Perform Nozzle check, and then confirm that there is no clogging in the print head.
☞ 3.6.1 Nozzle check
5. Perform Alignment.
☞ 3.7 Adjust print

6.4.2 Transporting the printer

When transporting the printer, make sure to pack it in the same condition as purchased, using protective and packing materials to protect the printer from vibration and shocks.

NOTE

- When transporting the printer, consult the MUTOH product dealer at your point of purchase.
-

7 Troubleshooting

This chapter describes possible troubles during the use of this product and countermeasures.

If the error not included in any items of this section occurs, contact your local MUTOH dealer.

NOTE




- If you want to receive product warranty, prepare the warranty certificate.
If the warranty certificate is not presented, the repair will not be covered by the warranty even if within the warranty period.
If you have signed a maintenance service contract, prepare that or a similar document.
-

7.1 Malfunctions and failures




This section describes undisplayed malfunctions and failures of the printer, possible causes and countermeasures.

7.1.1 Problems in installation and introduction

(1) Cannot perform the initial ink charge





No.	Possible cause	Remedy	Reference
1	Is the front cover open or media loading lever raised?	Close the front cover, or lower the media loading lever.	 3.5 Setting media
2	Is the maintenance cover open?	Close the maintenance cover.	 6.2.4 Cleaning the cleaning wiper unit
3	Are all ink cartridges fully inserted?	Fully insert all ink cartridges.	 6.1.1 Replacing ink cartridges

(2) Ink does not come out after ink replenishment

No.	Possible cause	Remedy	Reference
1	Is the ink cartridge cold and frozen?	Leave the ink bag at room temperature for at least three hours, and perform cleaning several times.	 6.2.3 Head cleaning
2	Is the power turned OFF during ink replenishment?	Turn the power ON again and continue ink replenishment.	 3.4 Installing ink cartridges
3	Occasionally, normal printing cannot be performed after ink replenishment.	Perform little charge.	 6.2.3 Head cleaning

7.1.2 Cannot print at all

(1) Does not work at all after turning on the power

No.	Possible cause	Remedy	Reference
1	Is the power cable connected to the plug?	Connect the power cable.	 3.1 Power cable connection
2	Does the AC power supply provide the specified voltage?	Connect the cable to another outlet.	 3.1 Power cable connection
3	Is the front cover open or media loading lever raised?	Close the front cover. Lower the media loading lever.	 3.5 Setting media
4	Is the maintenance cover open?	Close the maintenance cover.	 6.2.4 Cleaning the cleaning wiper unit

(2) Does not work after loading the media

No.	Possible cause	Remedy	Reference
1	Is the front cover open or media loading lever raised?	Close the front cover. Lower the media loading lever.	☞ 3.5 Setting media
2	Is the maintenance cover open?	Close the maintenance cover.	☞ 6.2.4 Cleaning the cleaning wiper unit
3	Is the media loaded at an angle?	Load the media straight.	☞ 3.5 Setting media
4	Is the ink cartridge inserted?	Insert the ink cartridge.	☞ 3.4 Installing ink cartridges
5	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
6	Is the printer being used in an environment other than specified, such as in direct sunlight?	Only use the printer in an environment that is specified for use.	☞ Installation manual

(3) When data is sent from the computer, an error occurs at the printer and nothing is printed

No.	Possible cause	Remedy	Reference
1	Is the type of printer selected correctly at the computer?	Check that the printer type settings on the computer side and printer side are the same.	☞ 3.8 Connecting the printer to PC
2	Are the interface requirements and command mode the same on the computer side and printer side?		

(4) Cannot use the computer online using LAN

No.	Possible cause	Remedy	Reference
1	Is the network interface cable connected correctly?	Confirm the types of the cross and straight cables, and connect the network interface cable correctly.	☞ 3.8.3 Connecting a network interface cable
2	Are the network settings configured correctly?	Configure the network settings correctly.	☞ 5.1.21 IP Address menu to 5.1.23 Gateway menu
3	Match the printer's network settings with the computer side environment.	Match this product's network settings with the computer side environment.	☞ 3.8.1 System requirements
4	Does the Data lamp on the operation panel turn on after sending printing data from the computer?	If the Data lamp does not turn on, contact the computer manufacturer.	—

7.1.3 Media-related troubleshooting

(1) The media slips or is torn during initialization

NOTE

- If the media is jammed or torn, remove it according to "7.3 The media is jammed".

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Is the loading position of the media correct?	Set the media correctly.	☞ 3.5.2 Loading and setting cut sheet media
3	Is the roll media set correctly?	Set the roll media correctly.	☞ 3.5.1 Loading and setting roll media
4	Are there any foreign materials such as paper attached to the pressurizing roller?	Clean the pressurizing roller.	☞ 6.2.2 Cleaning the inside of the printer
5	Is the printer being used in an environment other than specified, such as in direct sunlight?	Only use the printer in an environment that is specified for use.	☞ Installation manual
6	Are you using folded, torn or rolled media?	Replace the media.	☞ 4.2.2 Cautions on handling media
7	Does the media bend?	Use the recommended media. When using media other than the dedicated one, set the Vacuum Fan menu.	☞ 4.2.1 Media type ☞ 5.1.1.1.3 Vacuum Fan menu

(2) The media is crumpled during initialization**NOTE**

- If the media is jammed or torn, remove it according to "7.3 The media is jammed".

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Is the loading position of the media correct?	Set the media correctly.	☞ 3.5.2 Loading and setting cut sheet media
3	Is the media loaded at an angle?	Load the media straight.	☞ 3.5.2 Loading and setting cut sheet media
4	Are there any foreign materials such as paper attached to the pressurizing roller?	Clean the pressurizing roller.	☞ 6.2.2 Cleaning the inside of the printer
5	Is the printer being used in an environment other than specified, such as near to an air conditioner?	Only use the printer in an environment that is specified for use.	☞ Installation manual
6	Are you using folded, torn or rolled media?	Replace the media.	☞ 4.2.2 Cautions on handling media

(3) The wrong media size is set during initialization

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Is the media loaded at an angle?	Load the media straight.	☞ 3.5.2 Loading and setting cut sheet media
3	When the media is set, does it curl upward?	Straighten the media or set a new media.	☞ 3.5.2 Loading and setting cut sheet media
4	Is the printer being used in an environment other than specified, such as in direct sunlight?	Only use the printer in an environment that is specified for use.	☞ 3.5.1 Loading and setting roll media
5	Are you using media that has been printed on already?	Use a new media.	☞ 4.2.1 Media type

(4) Media jams frequently occur**NOTE**

- If media other than the recommended one is used, correct media feeding cannot be assured.

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Is the media used in an environment other than the one specified?	Use the media in a dedicated environment.	☞ 4.2.2 Cautions on handling media
3	Are you using the old media?	Replace it with new media.	☞ 6.1.2 Replacing roll media
4	Are you using the folded or wrinkled media?		
5	Does the media bend?	Use the recommended media. When using media other than the dedicated one, set the Vacuum Fan menu.	☞ 4.2.1 Media type ☞ 5.1.1.1.3 Vacuum Fan menu

(5) The media veers during printing

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Is the loading position of the media correct?	Set the media correctly.	☞ 3.5.2 Loading and setting cut sheet media
3	Is the roll media set correctly?	Set the roll media correctly.	☞ 3.5.1 Loading and setting roll media

7.1.4 Printing-related troubleshooting**(1) Printing is partially stained or incomplete****NOTE**

- Proper print quality may not be obtained with the media other than the recommended one.

No.	Possible cause	Remedy	Reference
1	Does the media include moisture?	Replace it with new media.	☞ 6.1.2 Replacing roll media
2	Are you using the folded or wrinkled media?		
3	Does the media bend?	Use the recommended media. When using media other than the dedicated one, set the Vacuum Fan menu.	☞ 4.2.1 Media type ☞ 5.1.1.1.3 Vacuum Fan menu

(2) The printing position is incorrect (some parts of the media cannot be printed on)

No.	Possible cause	Remedy	Reference
1	Is the loading position of the media correct?	Set the media correctly.	☞ 3.5.2 Loading and setting cut sheet media
2	Did you set up the origin and print position?	Cancel or reset the settings of the origin and print position.	☞ 5 Panel setup menu





(3) Printing is blurred

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Are you using the thick or thin media?	Use the recommended media.	☞ 4.2.1 Media type
3	Is the media printed on the printing surface?	Confirm the printing surface of the media and set it correctly.	☞ 3.5 Setting media
4	Did you perform Alignment?	Perform Alignment.	☞ 3.7 Adjust print
5	Did you perform Media feed compensation?	Perform Media feed compensation.	☞ 4.2.6 Media feed compensation
6	Is the head height set to "High" or "Mid"?	Return the head height to "Low".	☞ 4.2.5 Head height adjustment



(4) White or black lines appear on printed media

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞ 4.2.1 Media type
2	Is the roll media set correctly?	Set the roll media correctly.	☞ 3.5.1 Loading and setting roll media
3	Is the nozzle in good condition?	Perform Head cleaning.	☞ 6.2.3 Head cleaning
4	Did you perform Alignment?	Perform Alignment.	☞ 3.7 Adjust print
5	Did you perform Media feed compensation?	Perform Media feed compensation.	☞ 4.2.6 Media feed compensation
6	Is the head height set to "High" or "Mid"?	Return the head height to "Low".	☞ 4.2.5 Head height adjustment

(5) Printing lines are not straight

No.	Possible cause	Remedy	Reference
1	Is the ink within the validity period?	Use a new ink.	 6.1.1 Replacing ink cartridges
2	Are you using the recommended media?	Use the recommended media.	 4.2.1 Media type
3	Did you perform Alignment?	Perform Alignment.	 3.7 Adjust print
4	Did you perform Media feed compensation?	Perform Media feed compensation.	 4.2.6 Media feed compensation

(6) Printing lines are duplicated or patchy

No.	Possible cause	Remedy	Reference
1	Is the nozzle in good condition?	Perform Head cleaning.	 6.2.3 Head cleaning
2	Is the head height set to High?	Return the head height to "Normal (Low)".	 4.2.5 Head height adjustment














7.2 Error messages

This section describes messages displayed during normal printer operation or when errors occur, and solutions to the messages.

7.2.1 Status messages

This section describes messages displayed during printer normal operation.

When the product is operating correctly, each operation status is displayed on the operation panel as below.

No.	Display	Description	Reference
1	Ready to Print	Standby (Media is loaded).	—
2	Media End	Standby (Media is not loaded).	 3.5 Setting media
3	Receiving data	Receiving data.	—
4	Analyzing data	Analyzing data.	—
5	Printing	Under printing.	—
6	Cleaning **%	Cleaning the head. Please wait a while.	 6.2.3 Head cleaning
7	Start Ink Charge ->E	Ink filling starts. Press the [Enter] key.	 3.4 Installing ink cartridges
8	Insert CleaningCart.	Washing the head. Install the cleaning cartridge.	 3.4 Installing ink cartridges  5.1.17 Longstore menu
9	During Washing	Washing the print head by the head washing operation. Please wait a while.	 3.4 Installing ink cartridges  5.1.17 Longstore menu
10	Remove Cartridges	Washing the head. Remove the cleaning cartridge.	 3.4 Installing ink cartridges  5.1.17 Longstore menu
11	Wash retry? No	Head washing is complete. Press the [Enter] key.	 3.4 Installing ink cartridges
12	Insert InkCartridges	Filling the ink. Insert the ink cartridge.	 3.4 Installing ink cartridges
13	Ink Refill **%	Filling the ink. Please wait a while.	 3.4 Installing ink cartridges
14	Moving Origin Pos.	The print head is moving to the original printing position in the Origin menu. Please wait a while.	 5.1.8 Origin menu

No.	Display	Description	Reference
15	Confirm Position ->E	The print head is moving to the original printing position in the Origin menu. Press the [Enter] key.	☞ 5.1.8 Origin menu
16	** Initialing **	Initializing the setting in the Initialization menu. Please wait a while.	☞ 5.1.19 Initialization menu
17	** Press 2sec. **	The [Cleaning] key or the [Nozzle Check] key is pressed for less than two seconds. Press the key for more than two seconds again.	☞ 2.2.3 Operation panel
18	Media: Type ** OK?	Initializing the media. Please wait a while. (** represents the setup media type.)	☞ 3.5.3 Setting media type
19	Media Initial		
20	Cover Open	Front cover is open.	☞ 3.5 Setting media ☞ 6.2.4 Cleaning the cleaning wiper unit
21	Mainte.CoverL Open	The left maintenance cover is open.	
22	Mainte.CoverR Open	The right maintenance cover is open.	
23	Lever Up	The media loading lever is raised. Set the media.	☞ 3.5 Setting media
24	Start Sleep Mode?	Waiting to activate Sleep Mode. Press the [Enter] key to activate Sleep Mode.	☞ 5.7 Sleep Mode menu
25	Restart -> Enter	The printer is in Sleep Mode. Press the [Enter] key to return the printer to Normal operation.	☞ 5.7 Sleep Mode menu
26	Invalidate FAN	The ink gutter cover is not attached and Take-up menu is set to "Valid (Type 1)". Pressing the [Enter] key disables the vacuum fan.	☞ 5.1.1.1.3 Vacuum Fan menu
27	Use Takeup	The ink gutter cover is not attached and Take-up menu is set to "Invalid (OFF)". Pressing the [Enter] key displays the message recommending the use of take-up unit.	☞ 3.5.1.3 Setting roll media to the take-up unit ☞ 3.5.1.6 Setting roll media to the heavy take-up unit
28	Set Takeup ON	The ink gutter cover is not attached and Take-up menu is set to "Invalid (OFF)". Pressing the [Enter] key changes the take-up unit setting to "Valid (Type1)".	☞ 5.1.7 Take-up menu
29	Set Gutter Cover	Ink gutter cover is not set, and the Media Set menu is set to "Cut". Insert the ink cartridge.	☞ 3.5.2 Loading and setting cut sheet media

TIP

- The value of the Authorization Code may be displayed for the display of the option function.
For details, contact your local MUTOH dealer.








7.2.2 Message type error display and remedies




This section describes message type errors and remedies.

Message type errors are displayed when certain failures occur during printer operation.

If a message type error occurs, the printer may display the following error messages on the operation panel and stop operation.

If the printer stops operating, solve the error so that the printer restarts.

No.	Display	Description	Remedy	Reference
1	Undefined Media	Media detection has failed. (Stops operation)	Reload the media.	 3.5 Setting media
2	Media Slant	Media is fed obliquely. (Stops operation)	Reload the media.	 3.5 Setting media
3	End Of Roll	Roll media has run out. (Stops operation)	Load a new roll media.	 6.1.2 Replacing roll media
4	Full WasteInkTank	The waste fluid tank is full. (Stops operation)	Dispose of waste fluid.	 6.3 Disposal of waste fluids
5	Life Times [Head 1]	The operational life of the print head 1 has almost expired. (Continues operation)	Contact your local MUTOH dealer.	—
6	Life Times [Head 2]	The operational life of the print head 2 has almost expired. (Continues operation)	Contact your local MUTOH dealer.	—
7	Life Times [Pump]	The operational life of the pump motor has almost expired. (Continues operation)	Contact your local MUTOH dealer.	—
8	Life Times [CR Motor]	The life CR motor is almost expired. (Continues operation)	Contact your local MUTOH dealer.	—
9	Life Times [PF Motor]	The operational life of the PF motor has almost expired. (Continues operation)	Contact your local MUTOH dealer.	—
10	Set Height to Low	The head height is set to High during the procedure to turn the power OFF, or during the head washing, ink replenishment, or head cleaning. (Stops operation)	Return the head height to Low.	 3.2.2 Turning the power OFF
11	Don't Start Sleep Mode	Sleep Mode cannot be performed because the printer is not normal condition. (Stops operation)	Return the product normally.	 5.7.1 Set Timer menu  5.7.2 Sleep Mode Start menu
12	Smart/C Near End	The remaining amount of ink in the Smart/C is low. (Continues operation)	Charge Smart/C.	—

No.	Display	Description	Remedy	Reference
13	Smart/C End	The Smart/C has run out of the ink. (Stops operation)	Charge Smart/C.	—
14	Set Gutter Cover	The ink gutter cover is not attached when using cut media setting.	Attach the ink gutter cover.	 3.5.2 Loading and setting cut sheet media
15	[*****] Ink End	Ink is empty. (Stops operation)	Replace with the new ink cartridge.	 6.1.1 Replacing ink cartridges
16	[*****] No Cartridge	The ink cartridge has been removed.	Insert the ink cartridge.	 6.1.1 Replacing ink cartridges

NOTE


- [*****] in the error message shows the target ink cartridge slot
[ALL] is displayed when all the ink cartridge slots are the target.

7.2.3 Data error display and solutions

This section describes data error messages and remedies.

A data error appears if there is a failure in data communication between your PC and the printer. If a data error occurs, the following error message appears on the operation panel of the printer and operation stops.

When the cause of the error is solved, the printer starts operating again.

No.	Display	Description	Remedy	Reference
1	I**** Error []	An error occurred when receiving data.	Check the communication requirements between the printer and your PC.	 4.3 Menu setups on the operation panel

NOTE

- "****" in the error message is the code no. that indicates what type of error occurred.


7.2.4 Command error display and remedies

This section describes command errors and remedies.

A command error is displayed if a certain failure occurs during analysis of the command data sent from your PC to the printer.

If a command error occurs, the following error message appears on the operation panel of the printer and operation stops.

When the error is solved, the printer starts operating again.

No.	Display	Description	Remedy	Reference
1	MH** Error []	An invalid command has been sent from the computer.	Check that the settings on your PC and the printer are the same.	 4.3 Menu setups on the operation panel

NOTE

- "****" in the error message is the code no. that indicates what type of error occurred.
- The command code representing the error occurred may be indicated in [].
- For the settings on your PC side, refer to the Operating Manual attached with your PC.

7.2.5 Error requiring restart

This section describes errors requiring restart and remedies.

An error requiring restart is displayed if a fatal operational failure such as the following occurs.

- When an obstacle that prevents printing occurs
- When a problem occurs with the electrical circuit (PCB, motor, sensor, etc.) of the printer
- When a failure in the printer control program occurs

If an error requiring restart occurs, the printer stops operating after performing the following operations.

1. The drive power automatically shuts down.
2. All lamps on the operation panel blink, and the buzzer rings continuously.
3. The error message is displayed on the operation panel.

Pressing any key on the operation panel stops the beeping.

For an error requiring restart, operation will return to normal after removing the cause of the error and restarting the printer.

If the same error continues to be displayed, contact the your local MUTOH dealer.

Be sure to tell us the code no. of the error message when you contact us.

No.	Display	Description	Remedy	Reference
1	E*** Error []	A problem that does not have a remedy has occurred.	<ol style="list-style-type: none"> 1. Remove obstacles such as paper scraps in the drive system. 2. Confirm that the replaced items are correctly attached. 3. Turn OFF the printer power, and turn it ON again after 10 seconds or longer. 	<p>☞ 7.3 The media is jammed</p> <p>☞ 6.1 Replacing consumable components</p>

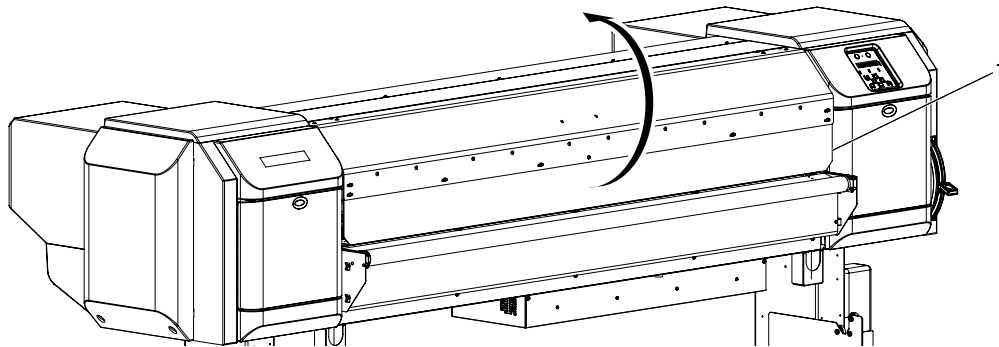
NOTE

- "***" in the error message is the code no. that indicates what type of error occurred.
- The command code representing the error occurred may be indicated in [].
- For the settings on your PC side, refer to the Operating Manual attached with your PC.

7.3 The media is jammed

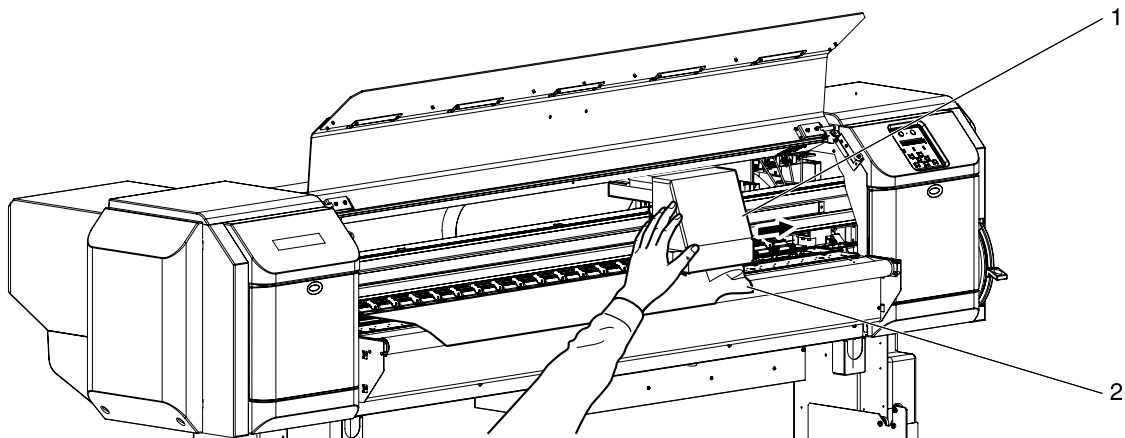
When the set media is jammed, follow the procedure below to remove it.

1. Turn OFF the power of the printer.
 ☞ 3.2.2 Turning the power OFF
2. Open the front cover.



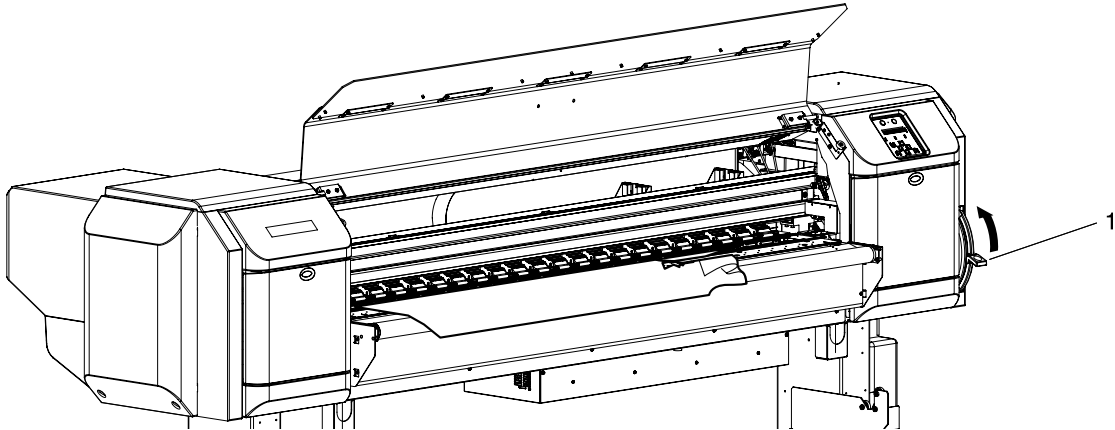
No.	Name
1	Front cover

3. Move the print head section from the top of the media to the right.



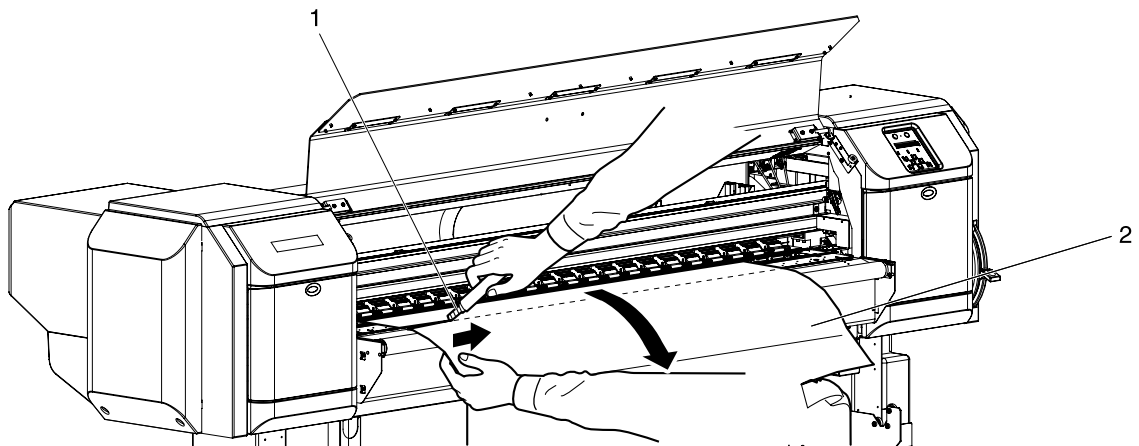
No.	Name
1	Print head section
2	Roll media

4. Raise the media loading lever.



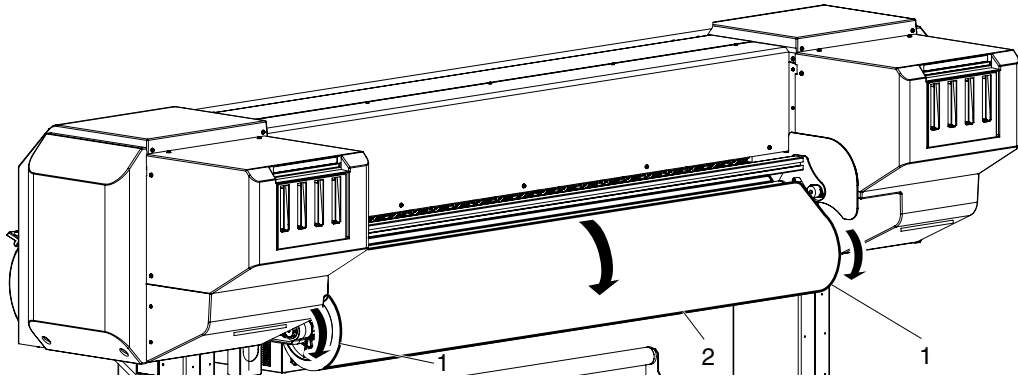
No.	Name
1	Media loading lever

5. Pull the media to your side, and cut the torn part with cutting tools such as a razor blade.



No.	Name
1	Razor blade
2	Roll media

6. Turn the flanges of the roll media holder and take up the roll media.



No.	Name
1	Flanges
2	Roll media

7. If paper dust or pieces of paper remain inside the printer, remove them.

8 Appendix

This chapter describes specifications and included components with this printer.

8.1 Product specifications

8.1.1 Printer specifications

Items		Specification
Model name		VJ-1628TD VJ-2628TD
Printing method		On-demand piezo drive system
Drive system		Firmware servo/DC motor drive
Media feed system		Multipoint pressurizing grid roller system
Media fixing system		Pressurization roller down system by manual lever
Media feed/ejection		Roll media: Rear feed/Front ejection Cut sheet media: Front feed/Front ejection
Roll media outer diameter		Less than 200 mm (two inches or three inches media tube)
Roll media weight		Roll media holder on the main body: 30 kg or less When using VJ-16TUP80 (option): 80 kg or less When using VJ-26TUP100 (option): 100 kg or less
Maximum media tube length		1675 mm 2680 mm
Maximum media width		1625 mm 2642 mm
Maximum media thickness		0.3mm (does not apply to fabric media)
Maximum print width		1605 mm 2620 mm
Print margin	Roll media	Print margin Front: Up to 5 mm, Back: 5 mm (105 mm at the roll media end), Left: 5 mm to 25 mm, Right: 5 mm to 25 mm
	Cut sheet media	Print margin Front: Up to 5 mm, Back: 35 mm, Left: 5 mm to 25 mm, Right: 5 mm to 25 mm
Media cut system		Horizontal manual cut system
Head height adjustment		3 steps
CPU		64-bit RISC CPU
Memory		256 MB
Command		MH-RTL (RTL-PASS)
Interface		Network interface (Ethernet IEEE 802.3)
Ink	Supply system	Supplied through tubes from independent color cartridges
	Ink cartridge	220 ml ± 5 ml each
Environmental condition	Operating condition	Temperature: 20 °C to 32 °C Humidity: 40 % to 60 %, No condensation
	Printing accuracy coverage	Temperature: 22 °C to 30 °C Humidity: 40 % to 60 %, No condensation
	Change rate	Temperature: within 2°C per hour Humidity: within 5 % per hour
	Archiving condition (Ink filled)	Temperature: -10°C to 40°C Humidity: 20 % to 80 %, No condensation Storage life: four days (32°C or higher)

Items		Specification	
Power	Power voltage	AC 90 V to AC 132 V / AC 198 V to AC 264 V	
	Frequency	50 Hz/60 Hz \pm 1 Hz	
Power consumption	Printing	VJ-1628TD 200W VJ-2628TD 300W	
	Standby	Under 45 W	
Outer diameter	Height	1262mm (including the stand)	
	Width	2698mm	3708mm
	Depth	950mm	
Weight		198 kg	250 kg

8.2 Interface specification

This section describes each type of interface specifications supported by this product.

8.2.1 Network interface specification

Items	Specification
Network type	Ethernet IEEE802.3
Network I/F	10BASE-T/100BASE-TX Automatic transfer type (RJ-45 Connector twist pair cable) MDI/MDI-X Automatic transfer
Corresponding protocol	TCP/IP

8.3 Options/Supply list

For more information about the options and the supply items, contact your local MUTOH dealer.

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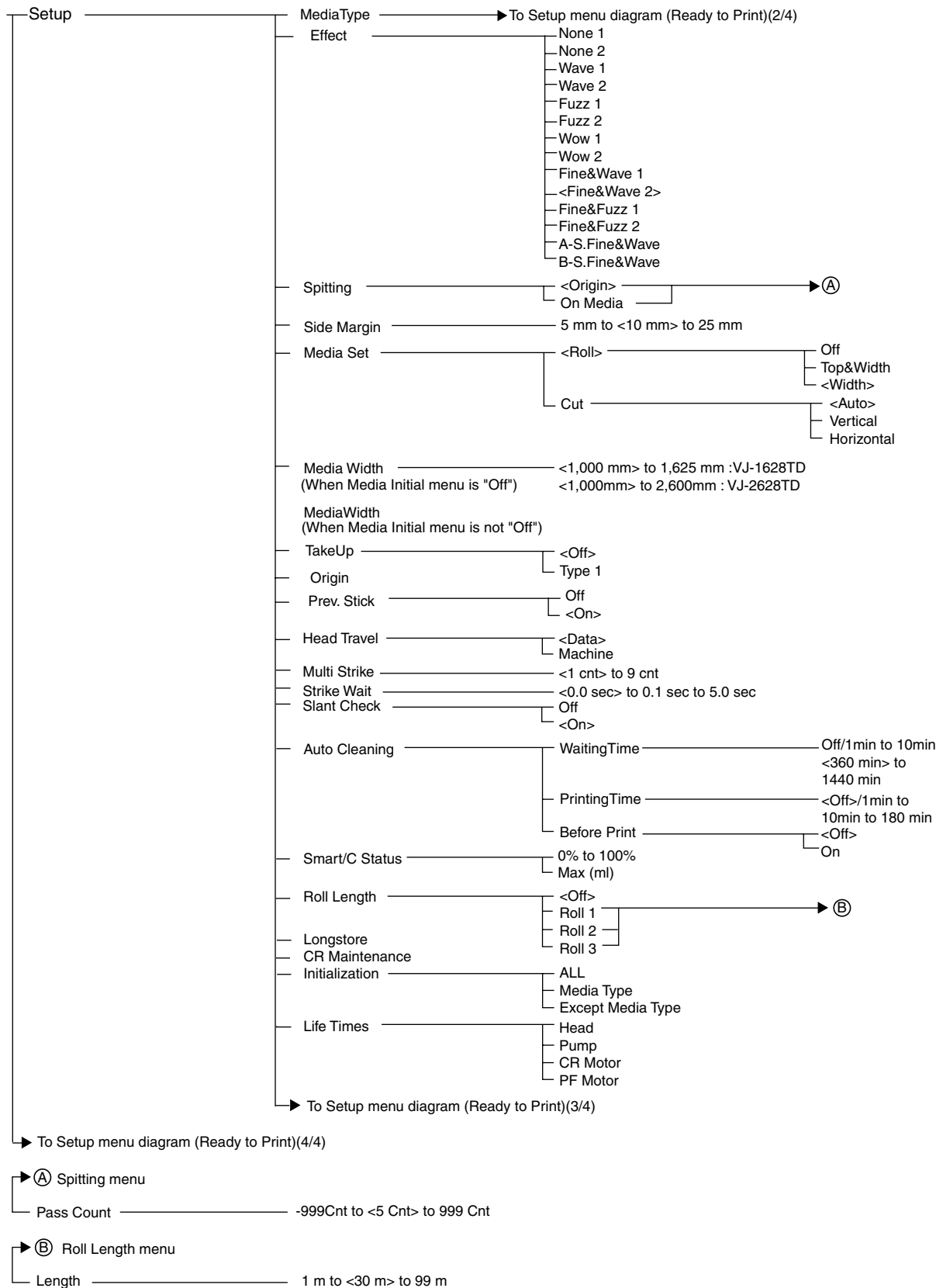
Setup menu diagram

For details of the Setup menu configuration diagram, refer to the followings.

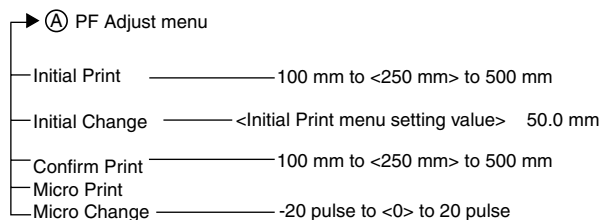
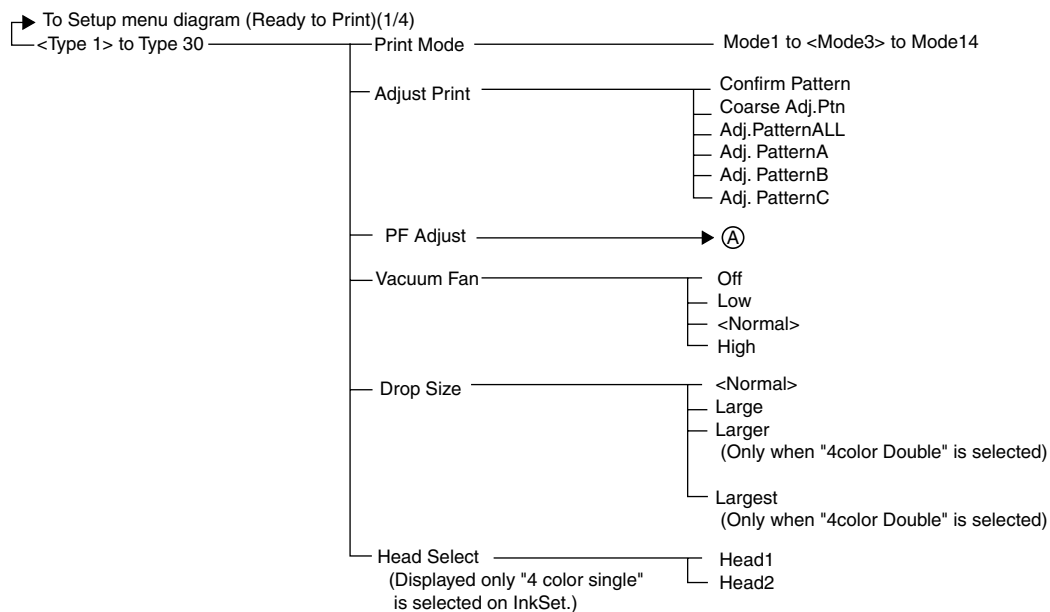
NOTE

- For details of each setup item, refer to followings:
 - Setup menu diagram (Ready to Print):
☞ "5 Panel setup menu"
 - Setup menu diagram (Receiving / Converting / Printing):
☞ 4.4.4 Changing and confirming settings while printing
 - The < > parts in each list are factory default settings (initial values).
-

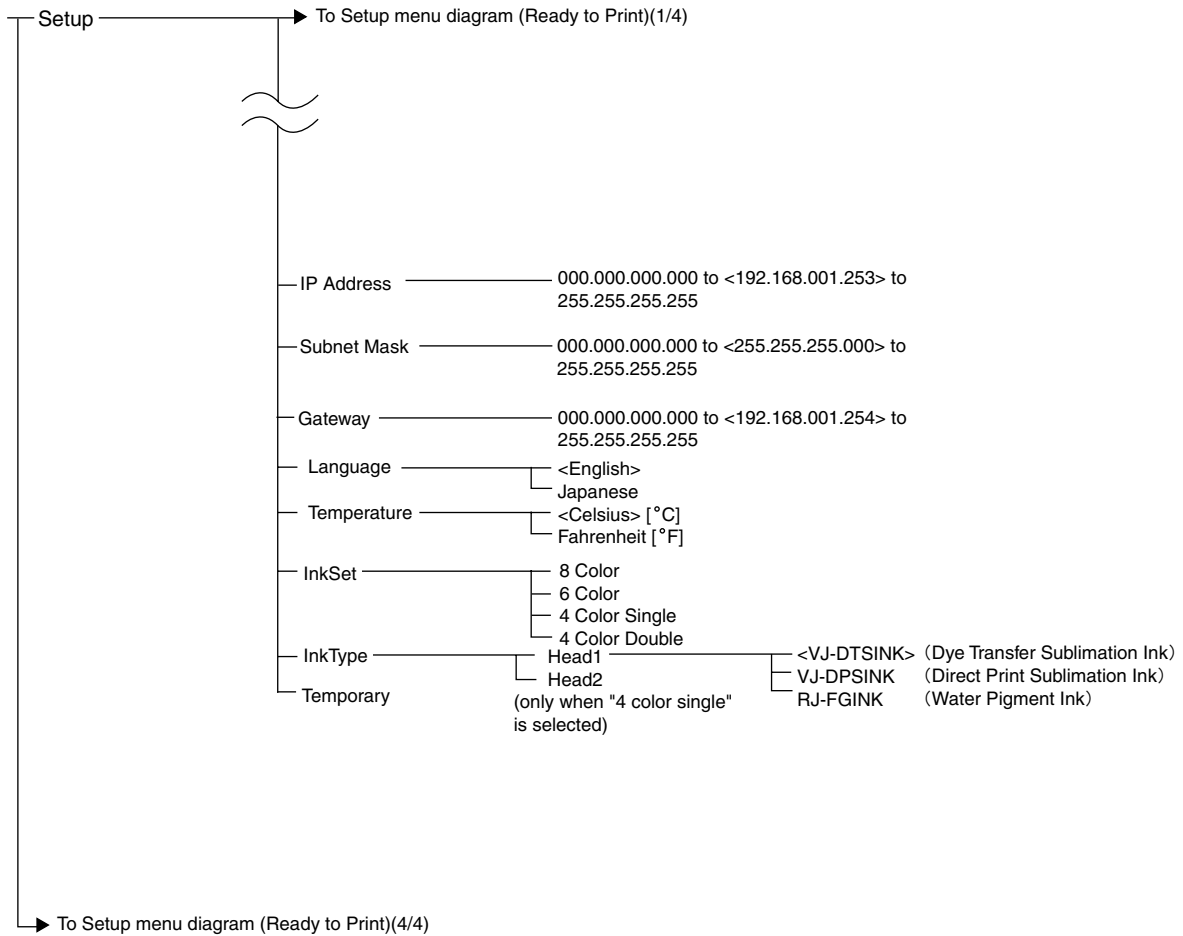
Setup menu diagram (Ready to Print) (1/4)



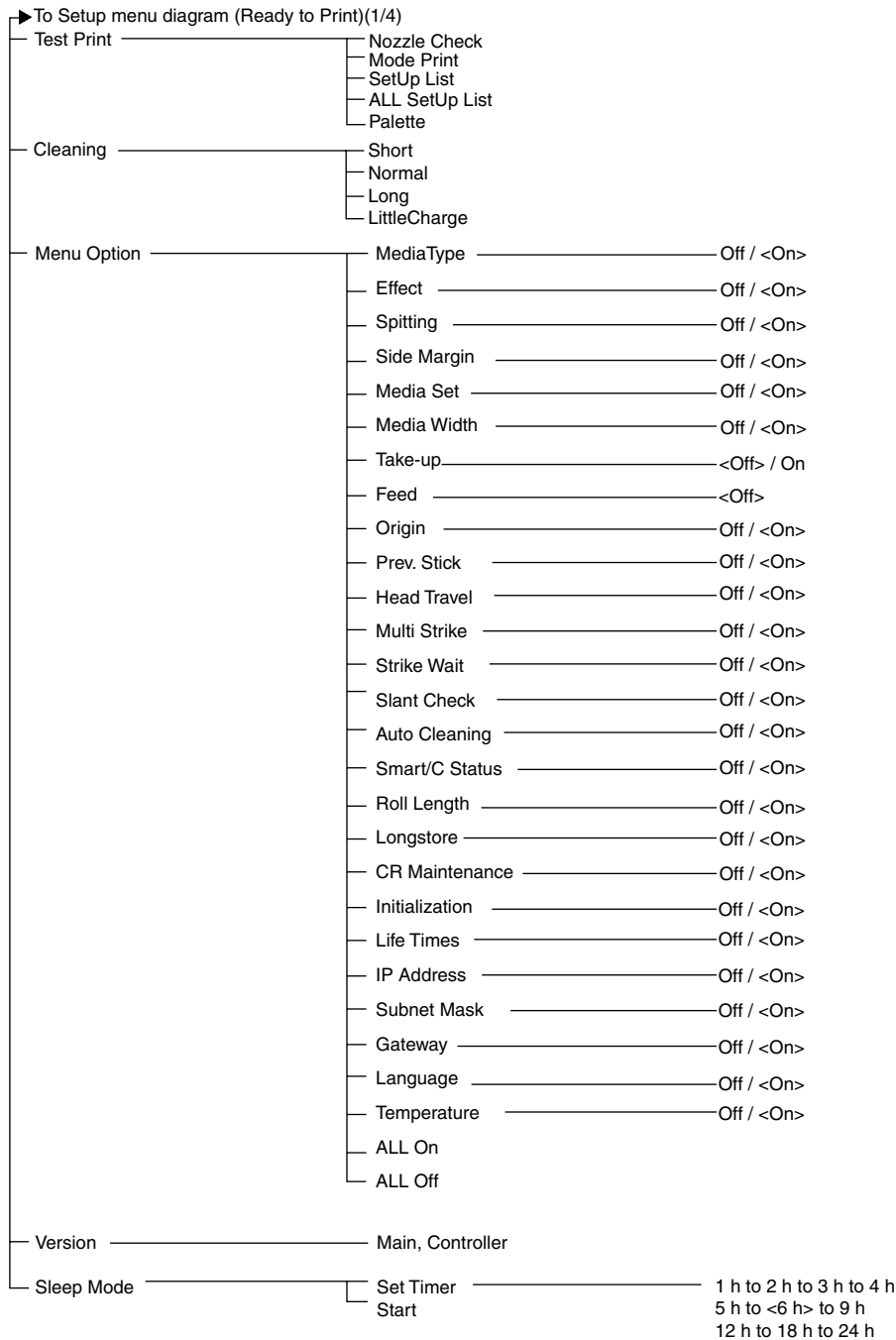
Setup menu diagram (Ready to Print) (2/4)



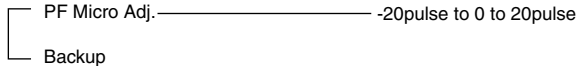
Setup menu diagram (Ready to Print) (3/4)



Setup menu diagram (Ready to Print) (4/4)



Setup menu diagram (Receiving / Converting / Printing)



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