MUTOH

Full-Color Inkjet Printer

ValueJet

VJ-1204

Read This Manual Before Using The Printer.

Rev.	VJ1204E-C-01

Important Notice

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1. For Users in Europe

This is a Class A product approved for industrial environments.

In a domestic environment this product may cause radio interference in which case you may be required to take adequate measures.

Change the direction of the receiving antenna or feeder.

2. For Users in the United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

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

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

3. Trademark Mentioned in this Manual

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- Windows95, Windows98, Windows NT4.0, Windows2000, Windows XP, and MS-DOS are registered trademarks or product names of Microsoft Corporation.

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⚠ CAUTION

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- **The product and the contents of this publication may be changed without prior notification.**

- **MUTOH INDUSTRIES LTD. has made the best efforts to keep this publication free from error, but if you find any uncertainties or misprints, please call us or the shop where you bought this equipment.**

- **MUTOH INDUSTRIES LTD. shall not be liable for any damages or troubles resulting from the use of this equipment or this manual.**

Warranty Limitations

1. MUTOH INDUSTRIES LTD. warrants part repair or replacement as a sole measure only if a failure is found in the system or in the materials and workmanship of the product the seller produced. However, if the cause of failure is uncertain, decide the action after due mutual consultation. Details concerning the warranty are written in the warranty certificate included with the product.

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.

Quick Reference (this manual)

Operation Manual

Provides information regarding preparation before using the product, directions for daily use, and useful functions.

2. Purpose and Target Readers

This manual explains preparations before use and operation procedures for MUTOH Full Color Ink Jet Printer VJ-1204.

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	Contents
1 Safety instructions	This chapter explains about the printer installation, warning terms which the operator needs to know, caution items and warning labels stuck on the printer main unit.
2 Product overview	This chapter explains about the features of the printer along with the names and functions of each part.
3 Basic usage	This chapter explains how to handle the printer.
4 Daily maintenance	This chapter explains the step of the daily maintenance.
5 Troubleshooting	This chapter describes possible troubles during the use of this product and countermeasures.

NOTE

• **"1 Safty instructions" through "3 Basic usage" must be read before using the printer.**

• **Read "4 Daily maintenance " through "5 Troubleshooting"as necessary.**

4. Manual Notation

The following symbols are used in this manual for easier understanding of the information.

Warnings	Meaning
⚠ WARNING	It is used in cases where, if it is not avoided, it would lead to dangerous situations where death or serious injury may be caused.
⚠ CAUTION	It is used in cases where, if it is not avoided, it would lead to dangerous situation where the situation may cause slight or middle class illness, or when all or parts of products are damaged.
NOTE	It is used for a special caution and for the information needed to be emphasized.
TIP	Indicates useful tips for operating or understanding the printer.
🚫	Indicates "prohibited" operations.
❗	Indicates required operations.
☞	Indicates referrence pages in this manual.

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4 Daily maintenance

5 Troubleshooting

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.

⚠ **WARNING**

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

1.1 Types and meanings of warnings

There are three steps of classification according to the degree of risk or accident for the warnings in the Operation Manual and warning labels on the printer itself.
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	It is 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 stamp 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 take 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 pipe
  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 store combustible materials on the platen while performing the heater operation. It could lead to fire.

🚫 Do not spill flammable liquid over the platen. This could lead to fire.

🚫 Do not insert or drop metal or flammable objects into the printer through openings such as a fresh air inlet. 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 power cable supplied with the plotter. Using other power cables can cause an electric shock or fire.

❗ Make sure to use only the specified power supply (AC 100 V - 120 V or AC 220 V - 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.

❗ The waste fluid from the printer is industrial waste. Proper waste fluid disposal according to industrial waste disposal laws and ordinances of your local government is required. Consign disposal of waste fluids to a specialized processor.

1 Safety instructions

⚠ CAUTION

🚫 Pay attention to the following points when handling power cable.
- Do not do anything forcefully on 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 touch the media guide during printing. It is hot and may cause a burn.

🚫 Do not touch the media feed slot, platen or media guide while heaters are operating. They are hot and may cause a burn.

🚫 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.

🚫 While 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 with a dry poly-knit wiper.
  A wet poly-knit wiper may cause the print head to clog.

🚫 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 taking this printer out of the package box, make sure to remove the vinyl sheet and hold the handles on the side of the printer. If the printer is lifted with the vinyl sheet attached, there is a possibility that the printer falls slipping from hands and gets damaged.

❗ While installing the stand, be sure to turn OFF the power and pull out the power plug. It could lead to an electric shock.

❗ 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.

❗ Load roll media on an even surface such as a desk. If you load roll media with the scroller standing vertical, there is a possibility that the scroller might get damaged.

❗ Keep the work area well-ventilated. This prevents fire, and stops operators from feeling sick from bad air.

When printing is finished, the media guide is at high temperature. Wait until the media guide cools off.

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 Safety instructions

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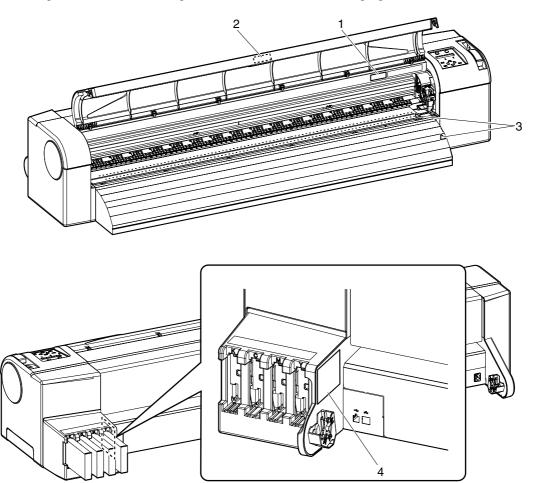
When handling the warning labels, be careful about the following points.

NOTE
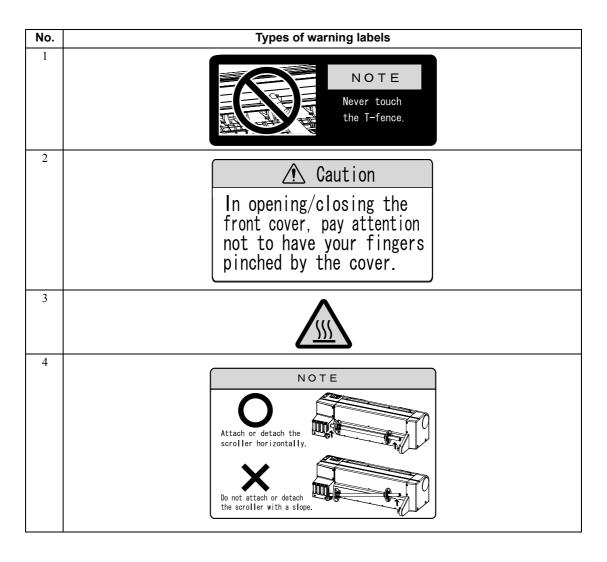
- **Check whether all the warning labels can be read. If the letters or illustrations on the label are not clear, remove the dirt from the label.**

- **Use cloth, water and neutral 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	**N O T E** Never touch the T-fence.
2	⚠ **Caution** In opening/closing the front cover, pay attention not to have your fingers pinched by the cover.
3	⚠
4	**N O T E** Attach or detach the scroller horizontally. Do not attach or detach the scroller with a slope.

1 Safety instructions

1.4 Operation procedure labels

Handling of operation procedure label, pasting location and type are explained.
When handling the operation procedure labels, be careful about the following points. The labels contain the matters with which the operator should be particularly careful while operating it.

1.4.1 Handling the operation procedure labels

Be careful about the following points, while handling the operation procedure label.
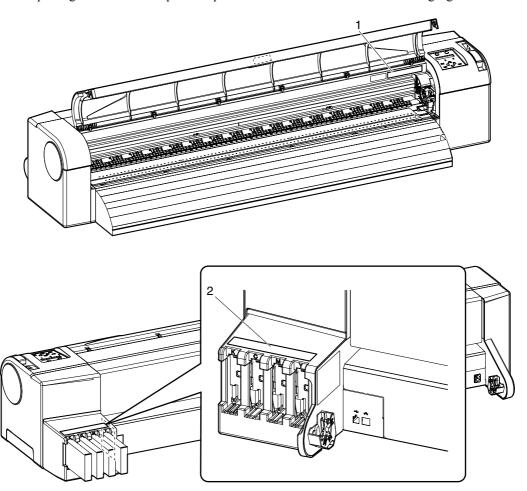

NOTE
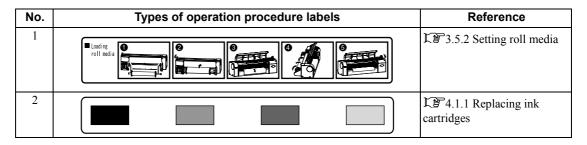
- **Check whether the operation procedure label can be read. If the letters or illustrations on the label are not clear, remove the dirt from the label.**

- **Use cloth, water and neutral detergent for removing dirt from the operation procedure label. Avoid either organic solvents or gasoline.**

- **It is necessary to replace the label if it is damaged, lost or illegible.**
  If the warning labels have to be replaced, contact your local MUTOH dealer.

1.4.2 Location and type of operation procedure labels

The pasting location of the operation procedure label is shown in the following figure.

No.	Types of operation procedure labels	Reference
1		☞3.5.2 Setting roll media
2		☞4.1.1 Replacing ink cartridges

2 Product overview

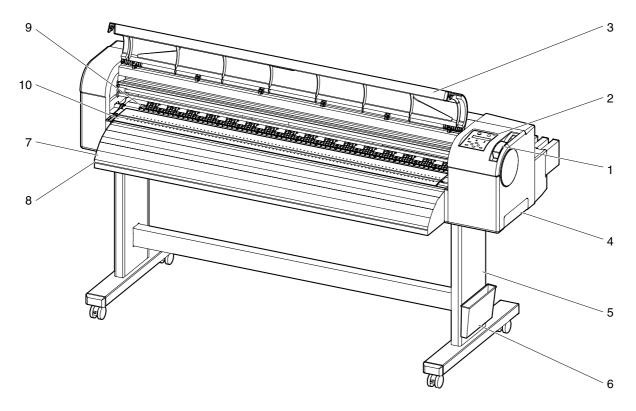This chapter explains the features of the printer along with the names and functions of each part.

2.1 Names of parts and functions

This section explains the names and functions of each part.
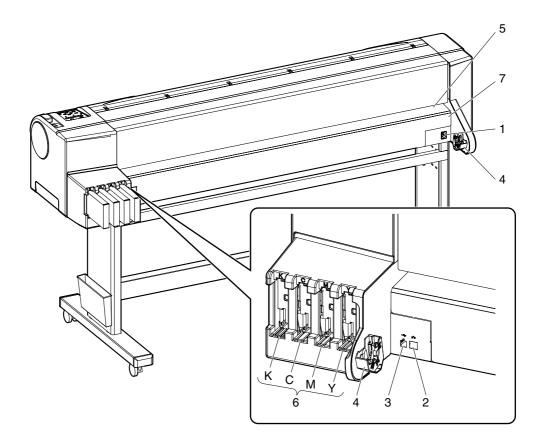
2.1.1 Front section

No.	Name	Function
1	Media loading lever	Used for fixing or releasing media.
2	Operation panel	Operation condition setting, printer display and various function settings are performed.
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	Waste fluid box	Used for collecting waste ink discharged from the printer.
5	Stand	Used when installing the printer on a level floor.
6	Book holder	Quick reference manual etc. can be stored here.
7	Media guide	Used for feeding media smoothly when the media is set or printed. The heater (after heater) to dry ink is installed.
8	Media cut groove	Used to cut media straight.
9	Pressurizing rollers	Installed inside of the front cover. Press and hold the media when printing.
10	Platen	Installed inside of the front cover. The heater (platen heater) to dry ink is installed.

2.1.2 Rear section

| No.	Name	Function
1	AC inlet	Used for connecting the power cable.
2	Network interface connector	Connects a network interface cable.
3	USB connector	Not used for this printer.
4	Scroller receiver	Set the scroller when roll media is used.
5	Media feed slot	Used for feeding media.
6	Ink cartridge slot	Insert the ink cartridge.
7	Media guide	Used for feeding media smoothly when the media is set or printed. The heater (pre heater) to warm media is installed.
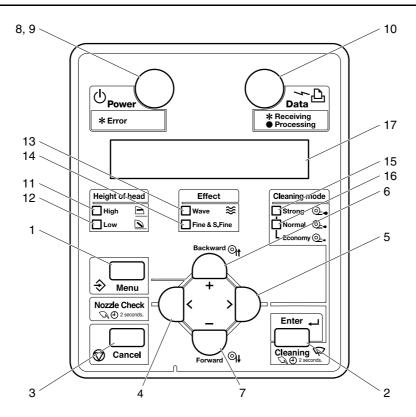
2.1.3 Operation panel

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:** ☞**3.8 Menu setups on the operation panel**

   • **When performing various operations in the operation panel:** ☞**3.7 Operating from the operation panel**

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(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 "2.2 Printer status".**

No.	Name	Normal	Setup menu display
1	[Menu] key	Shifts to the Setup menu.	Shifts from Setup menu display to Normal.

No.	Name	Normal	Setup menu display
2	[Enter] key	—	• The menu to set is selected and it 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	• When printing: Forcefully terminates printing and deletes one file of the remaining data. • When receiving or analyzing: Deletes data that are already received and analyzed, and delete the next data.	• 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. • 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. • 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	—	• 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	—	• 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 or OFF.	Turns the printer ON or 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	• Analyzing received data. • Under printing.
			Lamp blinks	Receiving data.
			Lamp OFF	Data is not received and analyzed.

2 Product overview

No.	Name	Color	Status	Description
11	High lamp	Green	Lamp ON	The head height is set to High.
			Lamp OFF	The head height is set to Low.
12	Low lamp	Green	Lamp ON	The head height is set to Low.
			Lamp OFF	The head height is set to High.
13	Wave lamp	Green	Lamp ON	The Effect menu is set to Wave.
			Lamp OFF	The Effect menu is set to None.
14	Fine &S.Fine lamp	Green	Lamp ON	The Effect menu is set to Fine or Super Fine.
			Lamp OFF	• The Effect menu is set to Wave. • When the Wave lamp is turned OFF, the Effect menu is set to None.
15	Strong lamp	Green	Lamp ON	• 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	• 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 restart (fatal malfunction for the printer operation) occurs, all lamps blink with an alarm.**
  ☞**"7.2.5 Error requiring restart" in the Operation Manual**
  If the error persists even when the malfunction is fixed, contact your local MUTOH dealer.

2.2 Printer status

This chapter explains printer status.

2.2.1 Normal

Printing is possible when media is loaded.
The various functions for printing can be performed on the operation panel.

2.2.2 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.

2.2.3 Changing printer status

Follow the procedure below to 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.
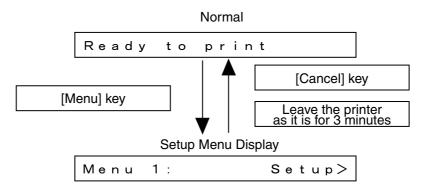

NOTE

• **For details regarding the Setup menu, refer to "3.8 Menu setups on the operation panel".**

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(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.

Normal

R e a d y   t o   p r i n t

[Cancel] key

[Menu] key

Leave the printer
as it is for 3 minutes

Setup Menu Display

M e n u   1 :   S e t u p >

NOTE

• **For details on Status message, refer to "5.4.1 Status messages".**

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3 Basic usage
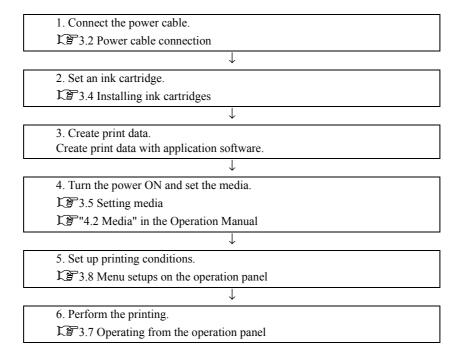
This chapter explains how to handle this printer.

3.1 Print flow chart

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

```
┌─────────────────────────────────────────────┐
│ 1. Connect the power cable.                   │
│ ☞3.2 Power cable connection                   │
└─────────────────────────────────────────────┘
                        ↓
┌─────────────────────────────────────────────┐
│ 2. Set an ink cartridge.                      │
│ ☞3.4 Installing ink cartridges                │
└─────────────────────────────────────────────┘
                        ↓
┌─────────────────────────────────────────────┐
│ 3. Create print data.                         │
│ Create print data with application software.  │
└─────────────────────────────────────────────┘
                        ↓
┌─────────────────────────────────────────────┐
│ 4. Turn the power ON and set the media.       │
│ ☞3.5 Setting media                            │
│ ☞"4.2 Media" in the Operation Manual          │
└─────────────────────────────────────────────┘
                        ↓
┌─────────────────────────────────────────────┐
│ 5. Set up printing conditions.                │
│ ☞3.8 Menu setups on the operation panel       │
└─────────────────────────────────────────────┘
                        ↓
┌─────────────────────────────────────────────┐
│ 6. Perform the printing.                      │
│ ☞3.7 Operating from the operation panel       │
└─────────────────────────────────────────────┘
```

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.

3.2 Power cable connection

This section explains power cable connection.

⚠ WARNING

- **Be sure to use the power cable supplied with the printer. Using other power cables can cause an electric shock or fire.**

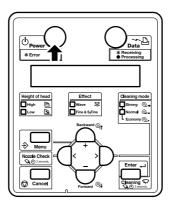- **Do not use a damaged power cable. It could lead to an electric shock and fire.**

⚠ CAUTION

- **Pay attention to the following points when handling power cable.**
    - **Do not do anything forcefully on 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 in case of power cable damage.**

Follow the procedure below to install the power cable.

1. Make sure that the printer is turned OFF.
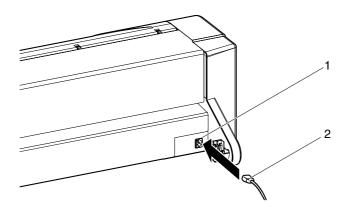
NOTE

- **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.**

3 Basic usage

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 take 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 - 120 V or AC 220 V - 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.**

- **Make sure to use a dedicated power socket with an earth terminal for the power supply, and connect it to an earth terminal. 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 pipe**
    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**
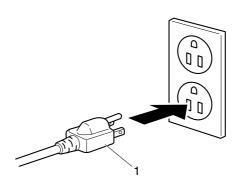   **The earth might not work if a plastic pipe is connected in the middle of the metal pipe.**

⚠ **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.

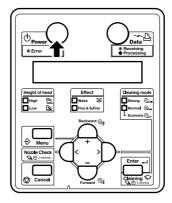| No.	Name
1	Power plug

3.3　Turning the power ON/OFF

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

3.3.1　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 initial operation, the printer displays a message on the operation panel and may stop operating.**
　If operation stops, refer to "5.3 Troubleshooting" and deal with the problem.

3.3.2   Turning the power OFF
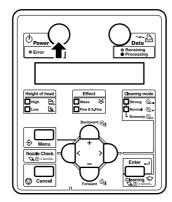
Follow the procedure below to turn the printer OFF.

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.

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

   • The Power lamp on the operation panel turns OFF.

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.

• All the lamps on the operation panel and the LCD monitor are turned OFF.

• The printer automatically turns the power OFF.

NOTE
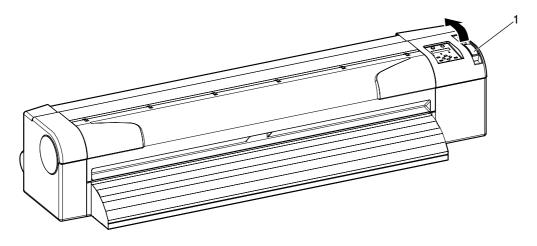
• **If there is a problem during turning OFF operation, a message is displayed on the operation panel and the printer may stop operating.**
  If operation stops, refer to "5.3 Troubleshooting" and deal with the problem.

• **After turning OFF the printer, wait for 10 seconds or longer to turn it ON again.**

---

3. When not using the printer for a long period, push the media loading lever to the back.

No.	Name
1	Media loading lever

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.**
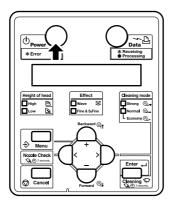
NOTE

- **When refilling ink, use original manufacturer's ink cartridge.**
  This printer is designed to use genuine ink cartridges. If you use ink cartridges which are not produced by the original manufacturer,

  - **Printing might become blurred and the end of the ink in the cartridge might not be detected correctly.**

  - **Any problems caused by using an ink cartridge other than those recommended above will not be covered by the warranty, and repair expenses will be paid by the customer.**

- **Refer to the following for types and details of ink cartridges.**
  ☞**"8.3 Options/Supply list" in the Operation Manual**

- **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.**

- **Make sure to use a dedicated cleaning fluid (model No.: VJ-MSINK3-CL220).**

- **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.**

- **Do not insert or remove an ink cartridge more than 10 times.**
  If the ink cartridge is inserted or removed 10 times or more, it cannot be used even if there is some remaining ink inside.

- **A dedicated smart chip is included with the ink cartridge for this printer.**
  If you insert or remove the ink cartridge in the following situations, information contained in the smart chip will be damaged and the ink cartridge cannot be used.

  - **During printing**

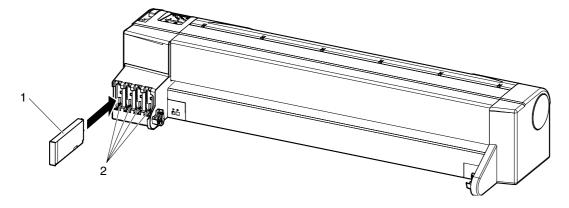 - **For a few seconds after inserting the ink cartridge**

Follow the procedure below to install the ink cartridge.

1. Turn the unit ON.

- The printer starts the initializing operation.
- After the initial operation is compete, "Insert CleaningCart." is displayed on the operation panel.

2. Take a cleaning cartridge out of the bag.

3. Install the cleaning cartridge into the ink cartridge slot.

- Keep the ▲ mark of the cleaning cartridge facing up and insert it into the slot of the printer.
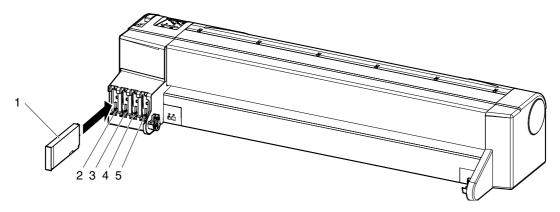- Insert the cleaning cartridge all the way to the end of the slot.

No.	Name
1	Cleaning cartridge
2	Ink cartridge slots

- The printer starts filling cleaning fluid.

4. After the cleaning fluid is filled, take out the cleaning cartridge.

- "During washing" is displayed on the operation panel and the printer starts Head washing.
- After the Head washing is complete, "Insert InkCartridges" is displayed on the operation panel.

5. After the Head washing is complete, take out the ink cartridge from the bag and shake it gently two to three times.

- Slots for ink cartridges are specified depending on the colors of the ink cartridge. Match the mark on each slot with the color of the ink cartridge.

- Keep the ▲ mark of the ink cartridge facing up and insert it into the slot of the printer.

- Insert the ink cartridge all the way to the end of the slot.

No.	Name
1	Ink cartridge
2	Ink cartridge slot K
3	Ink cartridge slot C
4	Ink cartridge slot M
5	Ink cartridge slot Y

- "Ink Refill   **%" is displayed on the operation panel and ink replenishment starts.

- Ink replenishment takes about 4 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.**

  - **Do not turn the printer OFF.**

  - **Do not unplug the power cable.**

  - **Do not open the front cover.**

  - **Do not push the media loading lever backward.**

- 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 "4.2.3 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 set media and settings for each media type.

> **NOTE**
>
> • **Refer to the following for details about handling media.**
>   ☞**"4.2 Media" in the Operation Manual**
>
> • **Refer to the following for types and details of recommended media.**
>   ☞**"4.2.1 Media type" in the Operation Manual**
>   ☞**"8.3 Options/Supply list" in the Operation Manual**

3.5.1 Loading roll media

This section explains how to load roll media.
Use the exclusive scroller included with this printer for loading roll media.
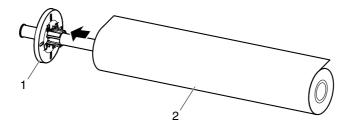
> **NOTE**
>
> • **The following roll media can be set on the scroller included with this printer.**
>
>   • **Media tube diameter: three inches, outside diameter of media: 150 mm or less, weight: 19 kg or less**

Follow the procedure below to load roll media.
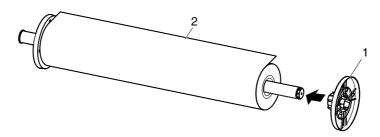
> **⚠ CAUTION**
>
> • **Load roll media on an even surface such as a desk.**
>   **If you load roll media with the scroller standing vertical, there is a possibility that the scroller might get damaged.**

1. Load roll media to the scroller so that it is rolled in an anti clockwise direction when viewed from the fixed flange.

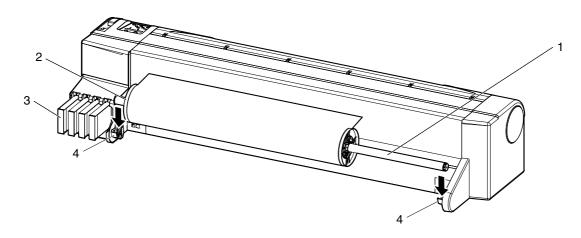2. Push the roll media until its core hits the right edge of the fixed flange.

No.	Name
1	Fixed flange
2	Roll media

3. Attach the movable flange firmly to the roll media core.

No.	Name
1	Movable flange
2	Roll media

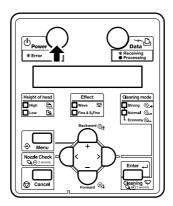4. Set the scroller to the scroller receiver facing the fixed flange to the side of the ink cartridge slot.

No.	Name
1	Scroller
2	Fixed flange
3	Ink cartridge slots
4	Scroller receiver

3.5.2 Setting roll media

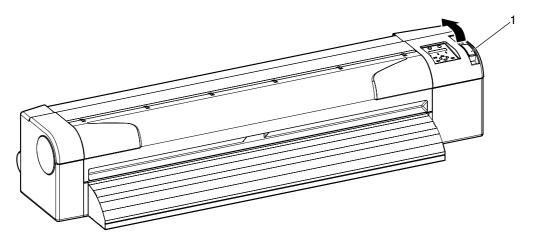This section explains how to set roll media.

Follow the procedure below to set roll media.

1. Turn the unit 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. Push the media loading lever to the back.
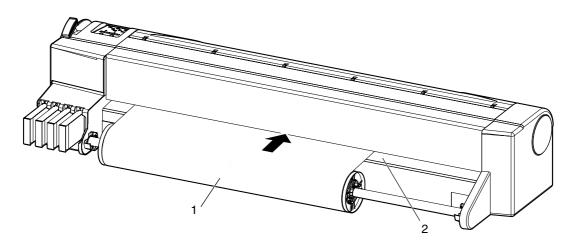
• "Lever Up" is displayed on the operation panel.

No.	Name
1	Media loading lever

3. Set the roll media to the media feed slot.
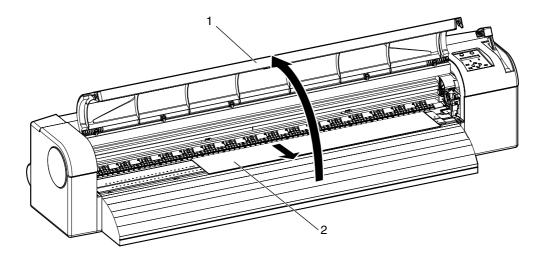
NOTE

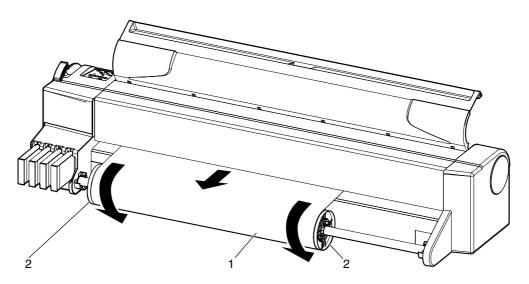• **If the roll media end gets loose, roll up the media again and load it.**

No.	Name
1	Roll media
2	Media feed slot

4. Open the front cover, and pull out the roll media.

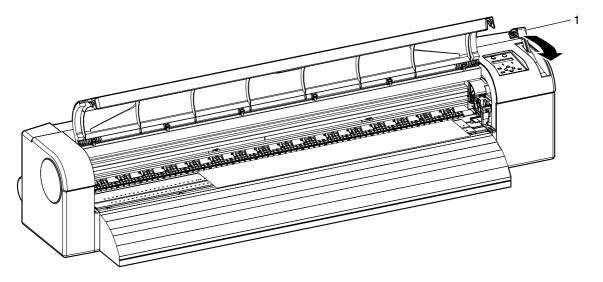| No.	Name
1	Front cover
2	Roll media

5. Holding the front edge of the roll media, roll it back using the scroller to remove a bend and slant.

No.	Name
1	Roll media
2	Scroller

6. Pull the media loading lever forward.

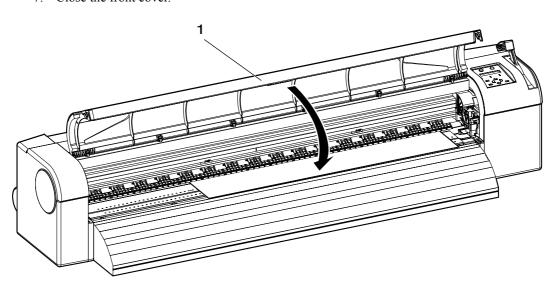| No.	Name
1	Media loading lever

NOTE

• **When loading the new roll media, cut the front edge of the media if it is not straight.**
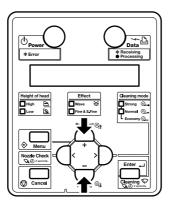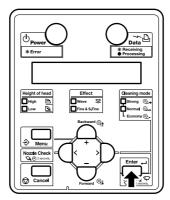☞**3.7.3 Cutting media**

7. Close the front cover.

No.	Name
1	Front cover

• The Media type setup menu is displayed on the operation panel.

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8. Press the [+] key or [−] key to select the type of the loaded media.

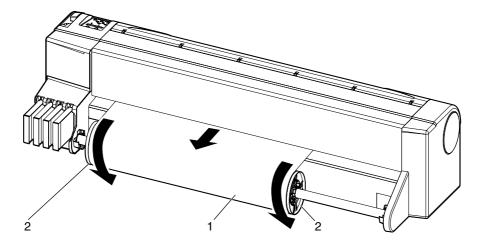9. Press the [Enter] key on the operation panel.

- The media type is set.
- "Media Initial" is displayed on the operation panel and media initial operation starts.

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 10 seconds.**

- After media initial operation is complete, "Ready to Print" is displayed on the operation panel and the display shifts to Normal.

10. Wind the roll media around the scroller to remove slack.

No.	Name
1	Roll media
2	Scroller

• This completes media loading.

3.6 Connecting the printer to a PC

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

3.6.1 System requirements

The following are the system requirements for this printer and software server RIP (optional).

Operating system	Windows 2000 Professional
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.**

3.6.2 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 "3.6.3 Connecting a network interface cable".**

- **For recommended cable specifications, refer to " 8.2 Interface specification" in the Operation Manual.**
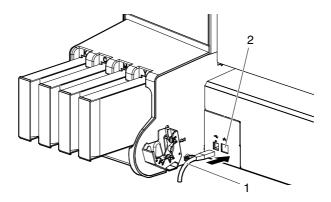
3.6.3 Connecting a network interface cable

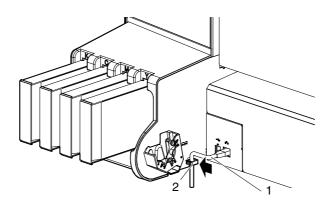This section explains how to connect a network interface cable.

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 in the back of the printer.

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

3. Fix the network interface cable to the cable clamp.

No.	Name
1	Network interface cable
2	Cable clamp

4. 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 "3.8.2 Panel setup menu overview".**

3.7 Operating from the operation panel

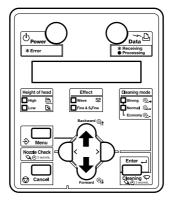This section explains various functions that can be operated from the operation panel.

TIP

• **For names and functions of each key, refer to "2.1.3 Operation panel".**

3.7.1 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. Confirm that the media loading lever is returned to the front.

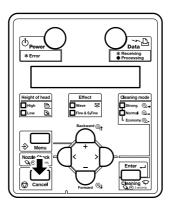3. Press the [Forward↓] key or the [Backward↑] key on the operation panel.

• 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.

3.7.2   Stopping printing operation

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

1. Press the [Cancel] key on the operation panel.

*   The printer operates as follows.

Printer status	Operation with the [Cancel] key pressed
During printing	Terminates printing and deletes the remaining data in the printer.
Receiving/converting	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.

3.7.3   Cutting media

This sub-section explains how to cut roll media.

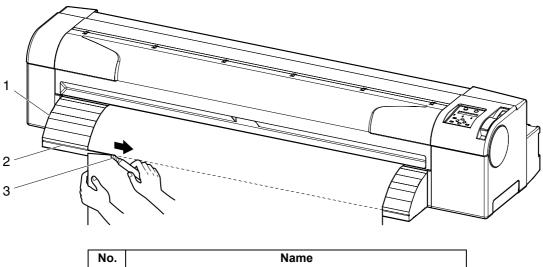Follow the procedure below to cut roll media.

⚠ CAUTION

*   **When printing is finished, the media guide is at high temperature. Wait until the media guide cools 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.

2. If the roll media cut position is changed, refer to "3.7.1 Feeding media" and advance the roll media to the desired cut position.

3 Basic usage

3. 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

• Cutting roll media is complete.

> **NOTE**
>
> • **When loading the new roll media, cut the front edge of the media if it is not straight.**

3.7.4 Changing and confirming settings while printing

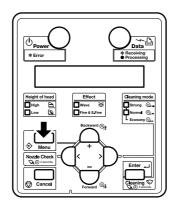While the printer is operating, you can change or confirm settings for the Panel setup menu.

3.7.4.1 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

   • Converting

   • Printing

   • Warming up

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

- • "Menu 1: Print Start" 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 "3.7.4.2 Settings that can be changed or confirmed while printing".**

3.7.4.2 Settings that can be changed or confirmed while printing

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NOTE

- • **The Print start menu is displayed only when the printer is warming up.**

- • **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.

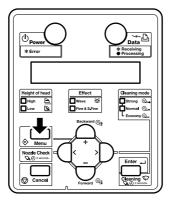| Setup item	Setting	Description
Print Start	—	• [Enter] key: If the heater temperature does not reach the set value during warming-up, printing starts.
Temperature	Pre	Check the current Pre Heater temperature.
	Platen	Check the current Platen Heater temperature.
	After	Check the current After Heater temperature.
Pre Heater	Off / 30 °C to 50 °C	Change the Pre Heater temperature.
Platen Heater	Off / 30 °C to 50 °C	Change the Platen Heater temperature.
After Heater	Off / 30 °C to 50 °C	Change the After Heater temperature.
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.

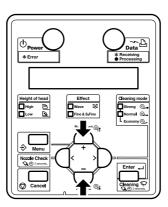3 Basic usage

3.8 Menu setups on the operation panel

3.8.1 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.

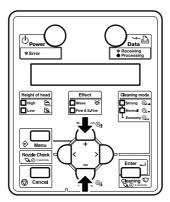

- The settings will be confirmed.

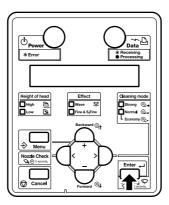- When setup items have a submenu, the display shifts to the next menu.

NOTE

- **When a setup item has a submenu, ">" is displayed on the right end of the LCD monitor of the operation panel.**

---

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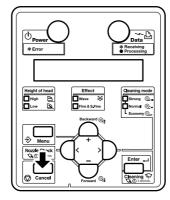
5. To save the changed setting, press the [Enter] key on the operation panel.

•   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.

3 Basic usage

3.8.2 Panel setup menu overview

This sub-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	Perform Head cleaning.
Selection menu	Sets up the contents of the Setup menu.
Version menu	Displays the versions of the firmware.

TIP

- **For details regarding the Setup menu, refer to "5 Panel setup menu" in the Operation Manual.**

4 Daily maintenance

This chapter explains daily maintenance.

4.1 Replacing consumable components

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

4.1.1 Replacing ink cartridges

This sub-section describes when to replace the ink cartridges.

(1) Replacement time

a. When "[****] InkNearEnd" is displayed on the operation panel

   • This message is displayed when there is a small amount of ink remaining in the ink cartridge.

   • Replace with the new ink cartridge.

b. When "[****] InkEnd" is displayed on the operation panel

   • This message is displayed when there is no ink remaining in the ink cartridge.

   • Immediately replace it with the new ink cartridge.

NOTE

• **[****] in the messages of ink cartridge replacement indicates the color that is almost empty or runs out, using the following characters.**

   • **K: Black**

   • **C: Cyan**

   • **M: Magenta**

   • **Y: Yellow**

• **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 detachment may occur.**

• **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 cause the print head to clog.**

---

(2) Type

Our genuine ink cartridges that are compatible with the printer are as follows.

Description	Model No.
Ink cartridge K (Black: 220 ml)	VJ-MSINK3-BK220
Ink cartridge C (Cyan: 220 ml)	VJ-MSINK3-CY220
Ink cartridge M (Magenta: 220 ml)	VJ-MSINK3-MA220
Ink cartridge Y (Yellow: 220 ml)	VJ-MSINK3-YE220

NOTE

- **Use genuine ink cartridges for replacement.**
  This printer is designed to use genuine ink cartridges. If you use an ink cartridge that is not a product of the original manufacturer,

  - **Printing might become blurred, or the end of the ink in the cartridge might not be detected correctly.**

  - **Any problems caused by using an ink cartridge other than those recommended above 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.

⚠ 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.
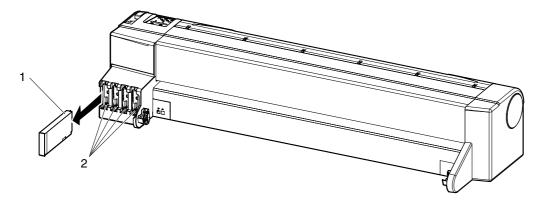
1. Confirm that the printer is turned ON.

NOTE

- **Do not replace ink cartridges when the printer is turned OFF. The remaining ink may not be detected correctly, causing abnormal printing.**

4 Daily Maintenance

2. Remove the ink cartridge that you want to replace from the ink cartridge slot.

(**NOTE**)

• **Used ink cartridge should be put in a vinyl 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 from the bag.

(**NOTE**)

• **Open the bag just before attaching the ink cartridge to the cartridge slot. Leaving the ink cartridge with the bag open for a long time may result in abnormal printing.**

• **Use the ink cartridge within 2 years from the date printed on the package. Using an ink cartridge after this period may affect print quality.**

• **Replace the ink cartridge six months after installing it to the printer.**

• **Do not insert or remove an ink cartridge more than 10 times. If the ink cartridge is inserted or removed 10 times or more, it cannot be used even if there is some remaining ink inside.**

---

4. Attach the new ink cartridge.

5. Confirm that the operation panel returns to Normal.

(**NOTE**)

• **If the ink cartridge is replaced during printing, printing restarts.**

• Ink cartridge replacement is complete.

4.1.2 Replacing waste fluid box

This sub-section describes the replacement time and steps of waste fluid box.

(1) Replacement time

Replace waste fluid box when the following situation occurs.

a. If "NearFullWasteInkTank" is displayed on the operation panel

- Waste fluid box shortly becomes full.
- Printing operation continues.
- Replace the waste fluid box.

b. If "FullWasteInkTank" is displayed on the operation panel

- The waste fluid box is full.
- Printing operation stops.
- Immediately replace the waste fluid box.

(2) Type

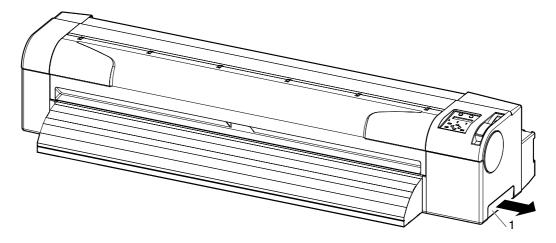The waste fluid box that can be used with this printer is as follows.

Description	Model No.
Waste fluid box	VJ12-HEB

(3) Replacing steps

Follow the procedure below to replace the waste fluid box.

⚠ WARNING

- **The waste fluid from the printer is industrial waste. Proper waste fluid disposal according to industrial waste disposal laws and ordinances of your local government is required. Consign disposal of waste fluids to a specialized processor.**

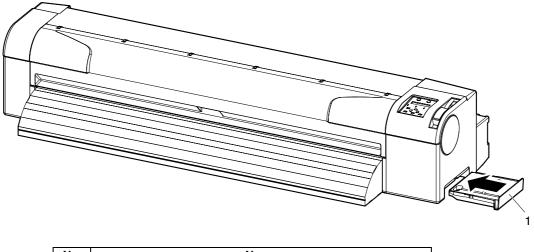1. Confirm that the printer is turned ON.
2. Pull out the waste fluid box.

No.	Name
1	Waste fluid box

- "No Waste-Ink Tank" is displayed on the operation panel.

> **NOTE**
>
> - **A used waste fluid box should be put in a vinyl bag and disposed of in compliance with the local ordinance and instructions of the local authority.**

3. Install the new waste fluid box into the printer.

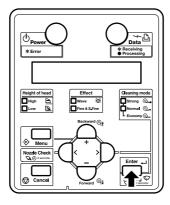| No.	Name
1	Waste fluid box

4. Check that "Exchange Tank? No" is displayed on the operation panel.

5. Select "Exchange Tank? Yes", and press the [Enter] key on the operation panel.

> **NOTE**
>
> - **If the waste fluid box is not replaced, press the [Enter] key on the operation panel with "Exchange Tank? No" displayed.**

- This completes the replacement of waste box.

4.1.3　Replacing the flushing-box sponges

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

(1) Replacement time

Replace the flushing-box sponges in the following situations.

a.　When the flushing-box sponge becomes deformed

b.　When smears of ink appear on media
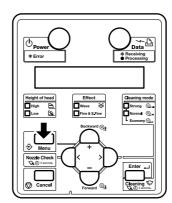
c.　Two months after replacement

(2) Type

```
(  TIP  )
```

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

(3) Replacing steps
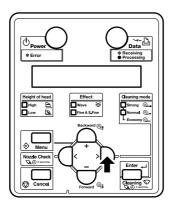
Follow the steps below to replace the flushing-box sponges.

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 "Set20: 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" in the Operation Manual

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

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

4. Open the front cover.

No.	Name
1	Front cover

4 Daily Maintenance

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

NOTE
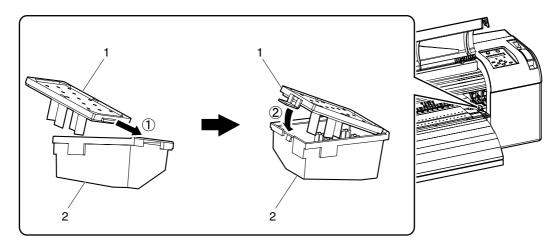
- **If there is a sponge from each flushing box, remove it using forceps.**

---

6. Assemble the following parts.

- Flushing-box sponge

- Spacer

- Flushing-box sponge holder

No.	Name
1	Flushing-box sponge
2	Spacer
3	Flushing-box sponge holder
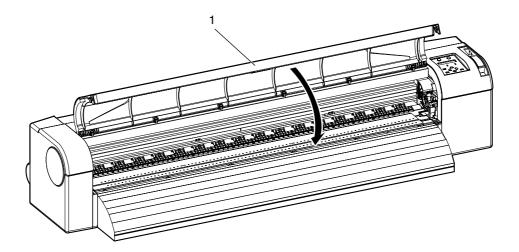
7. Install the assembled flushing-box sponge holder (in step 6) to the flushing-box.
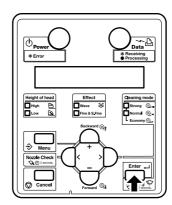
No.	Name
1	Flushing-box sponge holder
2	Flushing box

8. Close the front cover.
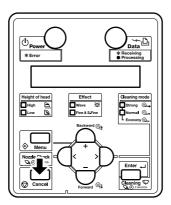
No.	Name
1	Front cover

9. 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.

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

- The printer enters Normal.
- Flushing-box sponge replacement is complete.

4.2 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 fresh air inlet. 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
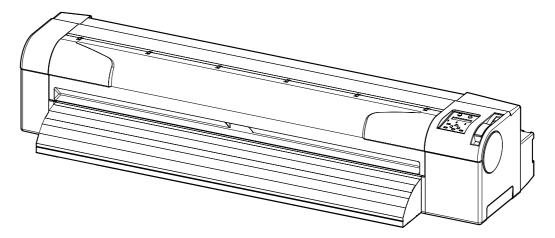
- **When cleaning the printer, be sure to turn OFF the power and disconnect the power plug.**

- **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 each part of the printer.

4.2.1 Cleaning the outer case

This sub-section describes how to clean the outer case.
Wipe out dust and dirt attached to the outer case by using a soft cloth.
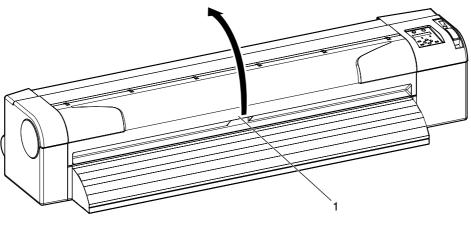
4.2.2   Cleaning the inside of the printer

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

Follow the procedure below.

1.   Open the front cover.
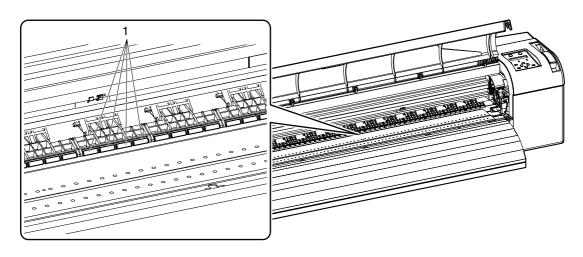
No.	Name
1	Front cover

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

   (**NOTE**)

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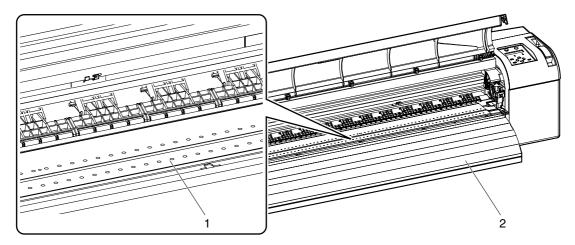
*   **Do not blow paper powder inside the printer using tools such as an air duster. It may cause an abnormal noise from the inside of the printer.**

No.	Name
1	Pressurizing rollers
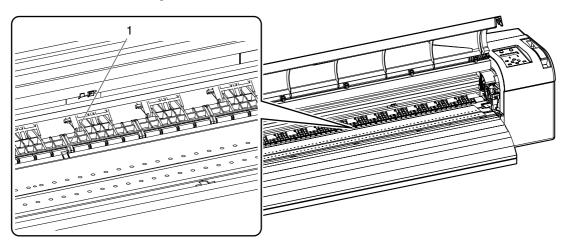
3. Apply a damp and tightly squeezed soft cloth to wipe out paper powder and ink attached to the platen and media guide.

No.	Name
1	Platen
2	Media guide

4. 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.
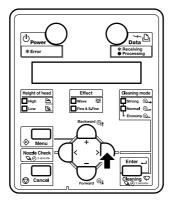
No.	Name
1	Grid roller

4 Daily Maintenance

4.2.3　Head cleaning
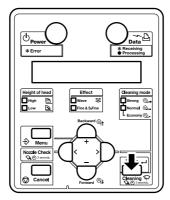
If printed data is blurred or lacks part of it, clean the print head surface and nozzle (Head cleaning).

Follow the procedure below to perform Head cleaning.

NOTE

- **When not using the printer for a long period (one week or more), perform Head cleaning once a week.**
  If not performing Head cleaning, the print head is clogged. Doing so will preserve print quality.

- **Remove media when cleaning.**
  Cleaning with media loaded may lead to contact between the print head and media.

---

1. Confirm that the operation panel is Normal.

2. Confirm that the media loading lever is returned to the front.

3. Press the [>] key on the operation panel to select the cleaning mode.

4. Press the [Cleaning] key on the operation panel for at least 2 seconds.

- "Cleaning **%" is displayed on the operation panel.

- Start Head cleaning.

- After Head cleaning is complete, the operation panel shifts to Normal.

```
┌─────────────┐
│    NOTE     │
└─────────────┘
```

- **If blurs or lacking parts in printed media do not disappear with one time of Head cleaning, perform Strong cleaning.**

- **If blurs or lacking parts in printed media do not disappear with several times of Head cleaning, refer to "5 Troubleshooting", and take appropriate measures.**

4.2.4 Cleaning the cleaning wiper

This sub-section describes how to clean the cleaning wiper.

(1) Cleaning time
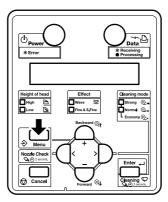
Once a week, or when blurs or lacking parts appear on printed media after Head cleaning.

(2) Cleaning method

Follow the procedure below to clean the cleaning wiper.

```
┌─────────────┐
│    NOTE     │
└─────────────┘
```

- **Use the poly-knit wiper to clean the cleaning wiper.
For the poly-knit wiper, refer to "8.3 Options/Supply list" in the Operation Manual.**

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 "Set20: 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" in the Operation Manual

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

- Maintenance starts.

- The print head moves to center.

- "CR Mainte.: End" is displayed on the operation panel.

4. Open the front cover.

No.	Name
1	Front cover

⚠ CAUTION

- **While 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 with a dry poly-knit wiper.**
    A wet poly-knit wiper may cause the print head to clog.

---

5. Use the poly-knit wiper to remove the ink and dust on the cleaning wiper.

   a. Cleaning wiper front side:
      Remove the ink and dust to right and left.

No.	Name
1	Cleaning wiper
2	Poly-knit wiper
3	Head cap unit
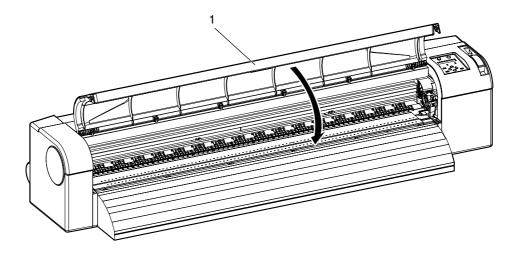
   b. Cleaning wiper back side:
      Remove the ink and dust upward.

No.	Name
1	Cleaning wiper
2	Poly-knit wiper
3	Head cap unit
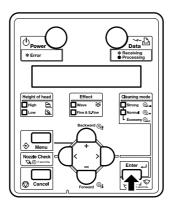
6. Close the front cover.
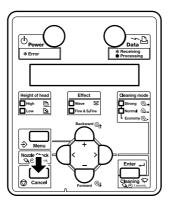
No.	Name
1	Front cover

7. 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.

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

- The printer enters Normal.
- Cleaning of the cleaning wiper is complete.

5 Troubleshooting

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

If an 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.

5.1 When you cannot generate graphics in the way you want

This section explains how to restore printing results that are blurred or have gaps and how to adjust print quality.
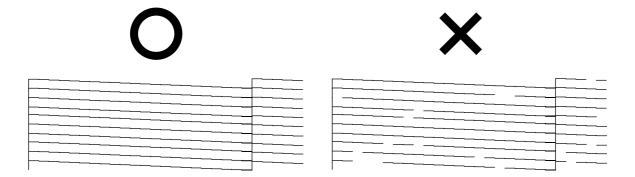
5.1.1 Perform Head cleaning

If the nozzle check result indicates that the checked points are blurred or missing, clean the print head.

1. Turn ON the printer and load the roll media.
   ☞3.5.2 Setting roll media

2. Confirm that the printer functions normally.

3. Press the [Nozzle Check] key on the operation panel for at least 2 seconds.

   • Perform the nozzle check printing.

4. Check the print sample and confirm that the checked points are blurred or missing.

5. If the nozzle check result indicates that the checked points are blurred or missing, clean the head.
   ☞4.2.3 Head cleaning

5.1.2 Adjust the print head
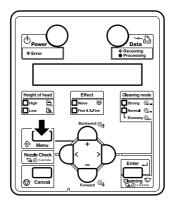
Follow the procedure below to adjust print quality.

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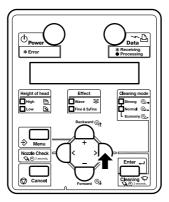
• **This printer was adjusted at factory shipment so that it obtains the optimum print quality.**
Adjust the quality if the print quality changes after the installation environment or the media is changed.

---

1. Turn ON the printer and load the roll media.
   ☞3.5.2 Setting roll media

2. Confirm that the printer functions normally.

3. Display the Printing mode menu on the operation panel.
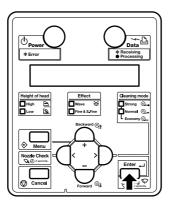
   a. Press the [Menu] key on the operation panel.

   • "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.
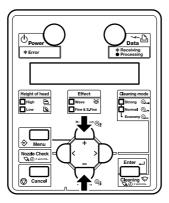
   • "Set1: MediaType" is displayed on the operation panel.
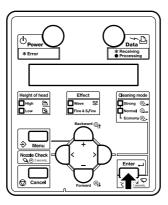
c.   Press the [Enter] key on the operation panel.

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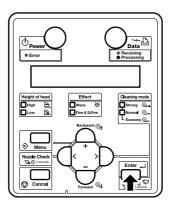
- "**>1: Print Mode" is displayed on the operation panel.

TIP

- **The selected media (Type 1 to 30) is displayed in "**".**
  ☞**"5.1.1 MediaType menu" in the Operation Manual**
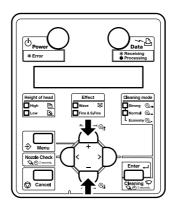
f. Press the [Enter] key on the operation panel.
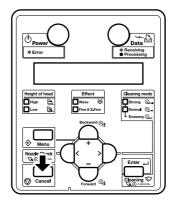
- "Mode: Quality 2 – > " is displayed on the operation panel.

- The display shifts to the Printing mode menu.
  ☞ "5.1.1.1.1 Print mode menu" in the Operation Manual

4. Select the printing mode that you want to use.

a. Press the [+] key or [–] key on the operation panel to select the printing mode to use.
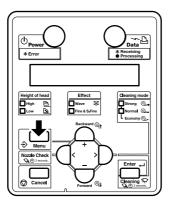
b. Press the [Cancel] key on the operation panel several times.
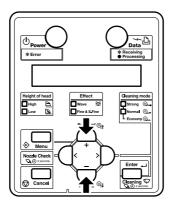
- The operation panel returns to Normal.
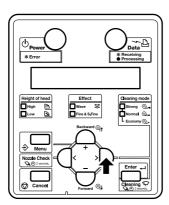
5. Display the Adjust Print menu on the operation panel.

   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 "Menu3: Adjust Print>".

   c. Press the [>] key on the operation panel.
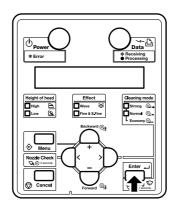
- "Adj.1: Confirm" is displayed on the operation panel.

- The display enters the Adjust Print menu.
  ☞ "5.3 Adjust Print menu" in the Operation Manual
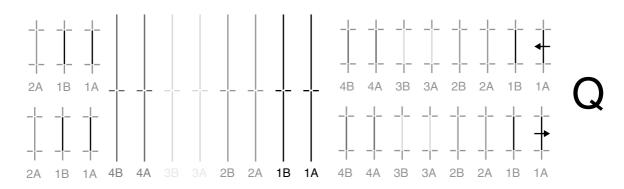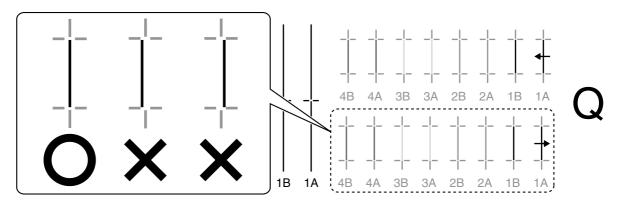
6. Press the [Enter] key on the operation panel.

*   A confirmation pattern for quality adjustment is printed.
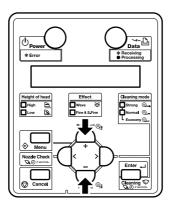
*   After the confirmation pattern is printed, the operation panel shifts to Normal.

7. Confirm that the confirmation pattern printing result is as follows.
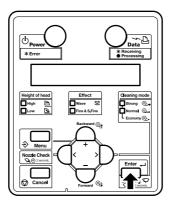
a. When the printing result is ○:
    You do not need perform Alignment. Proceed to step 10.

b. When the printing result is ✕:
    You need to perform Alignment. Proceed to step 8.

8. Register a set value for Bi-D Quality (two-way printing/quality priority mode).

a. Display the Adjust Print menu on the operation panel in the same way as in step 5.

b. Press the [+] or [−] key on the operation panel to select "Adj.5: Bi-D Quality".

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

• Start Bi-D Quality pattern printing.

d. Check three print samples that printed with Bi-D Quality pattern, and select the number that is not out of alignment.
"4" is selected in the next printing sample.
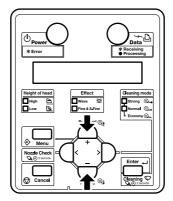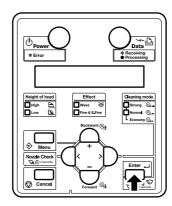
A l i g n m e n t   B i - D   Q

e. Press the [+] or [−] key to enter the number that you selected in step c.
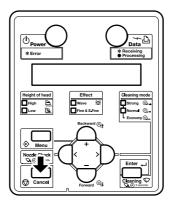
f.   Press the [Enter] key on the operation panel.

- The set value for Bi-D Quality is registered.

- "Adj.5: Bi-D Quality" is displayed on the operation panel.

9.   Register the setting for Bi-D Normal (two-way printing/normal mode) in the same way as in step 8.

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

- The operation panel returns to Normal.

- Alignment ends.

5 Troubleshooting
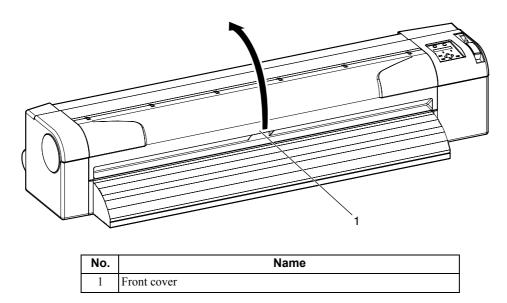
5.2 When media is jammed

When the set media is jammed, follow the procedure below to remove it.
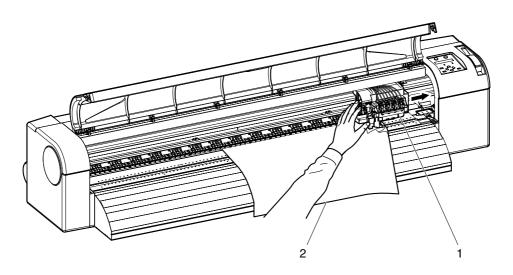
1. Turn OFF the power of the printer.
   ☞3.3.2 Turning the power OFF

2. Open the front cover.

No.	Name
1	Front cover
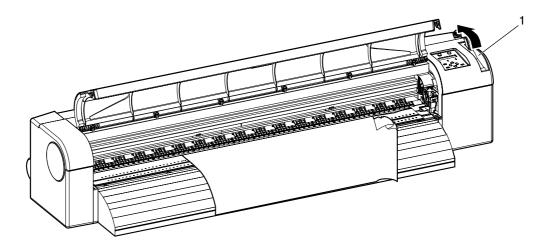
3. Move the print head section from the top of the media to the right.

No.	Name
1	Print head section
2	Roll media
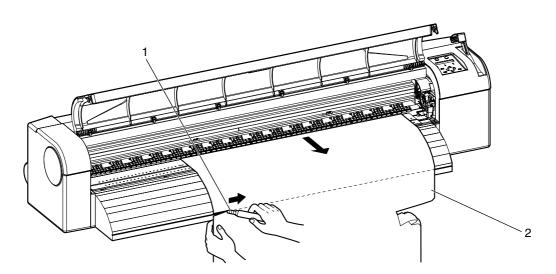
4. Push the media loading lever to the back.
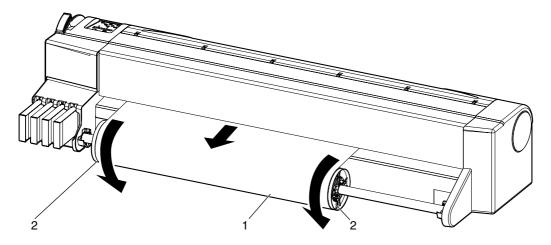
No.	Name
1	Media loading lever

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. Lift both ends of the scroller, and manually rewind the roll media.

No.	Name
1	Roll media
2	Scroller

7. If paper dust or pieces of paper remain inside the printer, remove them.

5.3 Troubleshooting

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

5.3.1 Problems in installation and introduction

(1) Cannot perform ink replenishment

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	Are the four ink cartridges fully inserted?	Fully insert the four ink cartridges.	☞3.4 Installing ink cartridges
3	Is the waste fluid box fully inserted?	Fully insert the waste fluid box.	☞4.1.2 Replacing waste fluid box

(2) Ink does not come out after ink replenishment

No.	Possible cause	Remedy	Reference
1	Is the ink cartridge cold and frozen?	Leave the cartridge at room temperature for at least 3 hours, and perform cleaning several times.	☞4.2.3 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 cleaning several times, and check it each time.	☞4.2.3 Head cleaning

5.3.2 Cannot print at all

(1) Does not work at all after power activation

No.	Possible cause	Remedy	Reference
1	Is the power cable connected to the plug?	Connect the power cable.	☞3.2 Power cable connection
2	Does the AC power supply provide the specified voltage?	Connect the cable to another outlet.	☞3.2 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 waste fluid box fully inserted?	Fully insert the waste fluid box.	☞4.1.2 Replacing waste fluid box

(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 media loaded at an angle?	Load the media straight.	☞3.5 Setting media
3	Is the ink cartridge inserted?	Insert the ink cartridge.	☞3.4 Installing ink cartridges
4	Are you using the recommended media?	Use the recommended media.	☞"4.2.1 Media type" in the Operation Manual

5 Troubleshooting

No.	Possible cause	Remedy	Reference
5	Is the printer being used in an environment other than the one 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.	☞3.6 Connecting the printer to a 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.	☞3.6.3 Connecting a network interface cable
2	Are the network settings configured correctly?	Configure the network settings correctly.	☞ "5 Panel setup menu" in the Operation Manual
3	Match the printer's network settings with the computer side environment.	Match this product's network settings with the computer side environment.	☞3.6.1 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.	―

5.3.3 Media-related troubleshooting

(1) The media slips or is torn during initialization

> **NOTE**
>
> •   **If the media is jammed or torn, remove it according to "5.2 When media is jammed".**

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞"4.2.1 Media type" in the Operation Manual
2	Is the loading position of the media correct?	Set the media correctly.	☞3.5.2 Setting roll media
3	Is the scroller set correctly?	Set the scroller correctly.	☞3.5.1 Loading roll media
4	Are there any foreign materials such as paper attached to the pressurizing roller?	Clean the pressurizing roller.	☞4.2.2 Cleaning the inside of the printer
5	Is the printer being used in an environment other than the one specified, such as in direct sunlight?	Only use the printer in an environment that is specified for use.	☞Installation manual

No.	Possible cause	Remedy	Reference
6	Are you using folded, torn or rolled media?	Replace the media.	☞"4.2.2 Cautions on handling media" in the Operation Manual
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" in the Operation Manual ☞ "5 Panel setup menu" in the Operation Manual

(2) The media is crumpled during initialization

> **NOTE**
>
> • **If the media is jammed or torn, remove it according to "5.2 When media is jammed".**

No.	Possible cause	Remedy	Reference
1	Are you using the recommended media?	Use the recommended media.	☞"4.2.1 Media type" in the Operation Manual
2	Is the loading position of the media correct?	Set the media correctly.	☞3.5.2 Setting roll media
3	Is the media loaded at an angle?	Set the media straight.	☞3.5.2 Setting roll media
4	Are there any foreign materials such as paper attached to the pressurizing roller?	Clean the pressurizing roller.	☞4.2.2 Cleaning the inside of the printer
5	Is the printer used in an environment other than the one specified, such as near 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" in the Operation Manual

(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" in the Operation Manual
2	Is the media loaded at an angle?	Set the media straight.	☞3.5.2 Setting roll media
3	When the media is set, does it curl upward?	Straighten the media or set a new media.	☞3.5.2 Setting roll media
4	Is the printer used in an environment other than the one specified, such as near an air conditioner?	Only use the printer in an environment that is specified for use.	☞3.5.1 Loading roll media
5	Are you using media that has been printed on already?	Use a new media.	☞"4.2.1 Media type" in the Operation Manual

5 Troubleshooting

(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" in the Operation Manual
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" in the Operation Manual
3	Are you using the old media?	Replace it with new media.	☞"6.1.2 Replacing roll media" in the Operation Manual
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" in the Operation Manual ☞ "5 Panel setup menu" in the Operation Manual

(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" in the Operation Manual
2	Is the loading position of the media correct?	Set the media correctly.	☞3.5.2 Setting roll media
3	Is the scroller set correctly?	Set the scroller correctly.	☞3.5.1 Loading roll media

5.3.4　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" in the Operation Manual
2	Are you using the folded or wrinkled media?		

No.	Possible cause	Remedy	Reference
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" in the Operation Manual ☞ "5 Panel setup menu" in the Operation Manual

(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 Setting roll 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" in the Operation Manual

(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" in the Operation Manual
2	Are you using the thick or thin media?	Use the recommended media.	☞"4.2.1 Media type" in the Operation Manual
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.	☞5.1.2 Adjust the print head
5	Did you perform Media feed compensation?	Perform Media feed compensation.	☞ "4.2.6 Media feed compensation" in the Operation Manual
6	Is each heater set to the appropriate temperature?	Set it to the appropriate temperature.	☞ "5 Panel setup menu" in the Operation Manual
7	Is the head height set to High?	Return the head height to "Normal (Low)".	☞ "4.2.5 Head height adjustment" in the Operation Manual

(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" in the Operation Manual
2	Is the scroller set correctly?	Set the scroller correctly.	☞3.5.1 Loading roll media
3	Is the nozzle in good condition?	Perform Head cleaning.	☞4.2.3 Head cleaning
4	Did you perform Alignment?	Perform Alignment.	☞5.1.2 Adjust the print head

5 Troubleshooting

No.	Possible cause	Remedy	Reference
5	Did you perform Media feed compensation?	Perform Media feed compensation.	☞ "4.2.6 Media feed compensation" in the Operation Manual
6	Is each heater set to the appropriate temperature?	Set it to the appropriate temperature.	☞ "5 Panel setup menu" in the Operation Manual
7	Is the head height set to High?	Return the head height to "Normal (Low)".	☞ "4.2.5 Head height adjustment" in the Operation Manual

(5) Printing lines are not straight

No.	Possible cause	Remedy	Reference
1	Is the ink cartridge within the validity period?	Use a new ink cartridge.	☞ 4.1.1 Replacing ink cartridges
2	Are you using the recommended media?	Use the recommended media.	☞ "4.2.1 Media type" in the Operation Manual
3	Did you perform Alignment?	Perform Alignment.	☞ 5.1.2 Adjust the print head
4	Did you perform Media feed compensation?	Perform Media feed compensation.	☞ "4.2.6 Media feed compensation" in the Operation Manual

(6) Printing lines are duplicated or patchy

No.	Possible cause	Remedy	Reference
1	Is the nozzle in good condition?	Perform Head cleaning.	☞ 4.2.3 Head cleaning
2	Is the head height set to High?	Return the head height to "Normal (Low)".	☞ "4.2.5 Head height adjustment" in the Operation Manual

5.4 Error messages

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

5.4.1 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	Remedy	Reference
1	Ready to Print	Standby (Media is loaded).	—
2	Media End	Standby (Media is not loaded).	☞3.5 Setting media
3	Receiving	Receiving data.	—
4	Converting	Analyzing data.	—
5	Printing	Under printing.	—
6	Warming Up	Warming up the heater.	—
7	Cleaning **%	Cleaning the head. Please wait a while.	☞4.2.3 Head cleaning
8	Ink Refill **%	Filling the ink. Please wait a while.	☞3.4 Installing ink cartridges
9	Washing	Washing the print head by Head washing. Please wait a while.	☞3.4 Installing ink cartridges
10	Moving Origin Pos.	The print head is moving to the original printing position in the Origin setup menu. Please wait a while.	☞ "5 Panel setup menu" in the Operation Manual
11	Confirm Position – >E	The print head is moving to the original printing position in the Origin setup menu. Press the [Enter] key.	☞ "5 Panel setup menu" in the Operation Manual
12	Remove Cartridges	Washing the head. Attach the cleaning cartridge.	☞ "5 Panel setup menu" in the Operation Manual
13	** Initialing **	Initializing the setting in the Initialization menu. Please wait a while.	☞ "5 Panel setup menu" in the Operation Manual
14	** Press 2sec. **	The [Cleaning] key or the [Nozzle Check] key is pressed for less than 2 seconds. Press the key for more than 2 seconds again.	☞2.1.3 Operation panel
15	Insert CleaningCart.	Washing the head. Attach the cleaning cartridge.	☞3.4 Installing ink cartridges
16	Insert InkCartridges	Filling the ink. Insert an ink cartridge.	☞3.4 Installing ink cartridges
17	Transport Mode	Preparing for transportation. Please wait a while.	☞"6.3.2 Transporting the printer" in the Operation Manual
18	Media: Type ** OK?	Initializing the media. Please wait a while. (** represents the setup media type.)	☞"3.4.4 Setting media type" in the Operation Manual
19	Media Initial		
20	Cover Open	The front cover is open.	☞3.5 Setting media
21	Lever Up	The media loading lever was switched to the back side. Set the media.	☞3.5 Setting media

5 Troubleshooting

(**NOTE**)

• **If any message that is not in the table above is displayed on this product, there is some operation malfunction.**
Refer to "7.2.2 Error message display and remedies to 7.2.5 Error requiring restart" in the Operation Manual, and check the condition of the product and remedies.

5.5 Using Operation Manual CD

This section explains how to use the included Operation Manual CD.

The Operation Manual of the product is included in the CD-ROM.
The Operation Manual of the product is created in the HTML format and can be viewed using Internet Explorer etc.

5.5.1 System requirements of the Operation Manual

The requirements for viewing the Operation Manual are as follows.

Computer

CD-ROM drive is loaded.

Browser

Compatible with SS, Java Script, Dynamic HTML, HTML3.2.
(Above Internet Explorer 5.5 is recommended).

5.5.2 Viewing the Operation Manual

Follow the procedure below to view the Operation Manual on your PC.

1. Turn your PC ON.

2. Ensure that your PC boots up correctly, and insert the CD-ROM on which "OPERATION MANUAL CD-ROM for VJ-1204" is written into the CD-ROM drive on your PC.

   • The browser runs and the next window is displayed.

TIP

• **The screen below is a display example when the operation system of the PC is Windows XP.**

• **If the browser is not started automatically after inserting the CD-ROM, open "CD-ROM" of "My Computer" and then double-click the "index.htm".**

---
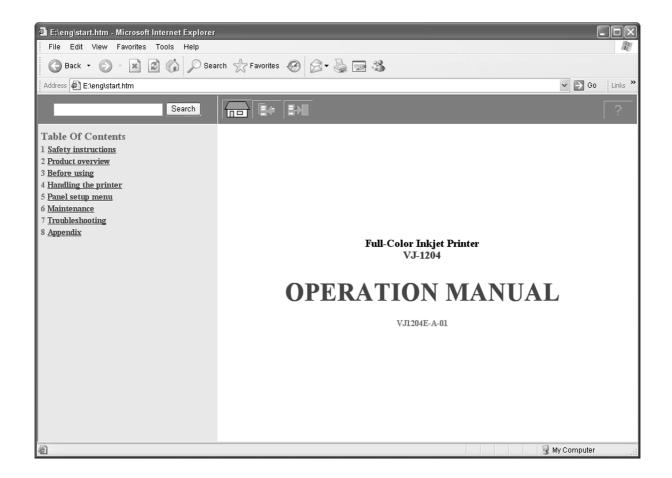
3. Click the desired language name to display.

- The Operation Manual screen appears.

(TIP)

- **The following window is the example when "English" is selected.**

- **For details about how the Operation Manual works, refer to the Operation Manual help.**

 You can view the Operation Manual help by clicking icon on the top right **of the screen.**

5.5.2.1 When the operation system is Windows XP SP2

When the operation system is Windows XP SP2, it is limited for security reasons to display HTML files (active content) including programs of JavaScript etc.

Since the HTML files of the Operation Manual uses active content, information bars including the following may appear and screens may not be displayed correctly when you use browsers like Internet Explorer to open the Operation Manual screen.

Follow the procedure below to display active content so that the Operation Manual is displayed correctly.

When allowing active content by clicking the information bar.

1. Click the information bar.

   • The following shortcut menu appears.

2. Click "Allow Blocked Content".

   • The following screen appears.

3. Click "Yes".

   • The Operation Manual screen is correctly displayed.

4. After that, repeat the procedure 1-3 each time the information bar appears.

   • Setup procedure ends.
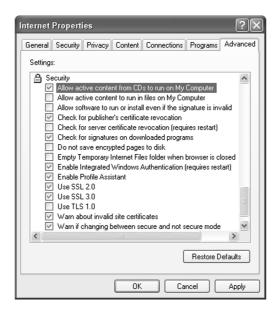
When allowing all the active content on the CD-ROM.

1. Click "Control panel" in the Start menu.

2. Click "Network and Internet connection".

3. Click "Internet options".

4. Click "Advanced setup".

   • The following screen appears.

5. Click the check box of "Allow active content from CDs to run on My Computer".

NOTE

• **The check is off in the default setting and the security control function is valid. By checking the box, active content from the Operation Manual CD is allowed to perform without the operation by the user.**

• The following screen appears.

6. Click "OK".

   • The Operation Manual screen is correctly displayed.

   • Setup procedure ends.

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Setup menu diagram

For Setup menu configuration diagram, refer to the followings.

NOTE
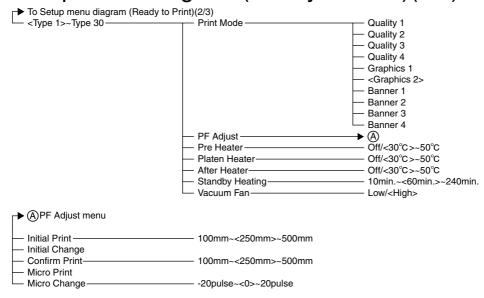
- **For details of the setup items, refer to followings:**
  - **Setup menu (Ready to Print)**
    ☞**"5 Setup menu" on the Operation Manual.**
  - **Setup menu (Receiving / Converting / Printing)**
    ☞**3.7.4 Changing and confirming set values while printing**

- **< > in each table shows the parameters set at the factory (initial settings).**

Setup menu diagram (Ready to Print)(1/3)

```
Setup ──────────────── MediaType ──────────► To Setup menu diagram (Ready to Print)(2/3)
                       Effect ─────────────── None 1
                                              None 2
                                              Wave 1
                                              Wave 2
                                              Wave 3
                                              Wave 4
                                              <Fine&Wave 1>
                                              Fine&Wave 2
                                              Fine&Wave 3
                                              Fine&Wave 4
                                              A-S.Fine&Wave
                                              B-S.Fine&Wave
                       Flushing ───────────── Origin ──────────────────► Ⓐ
                                              <On Media>
                       Side Margin ────────── <3mm>~25mm
                       Media Initial ──────── Off
                                              Top&Width
                                              <Width>
                       Media Width ────────── 150mm~<1000mm>~1225mm
                       (When Media Initial menu is "Off")
                       MediaWidth
                       (When Media Initial menu is not "Off")
                       Origin
                       TakeUp ─────────────── <Off>
                                              Type 1
                       Prev. Stick ────────── Off
                                              <On>
                       CR Movement ────────── <Data>
                                              Machine
                       Overwrite Cnt ──────── <1Cnt>~9Cnt
                       Overwrite Wait ─────── <0.0sec>~0.1sec~5.0sec
                       Slant Check ────────── Off
                                              <On>
                       Auto Cleaning ──────── Off/1h/2h/3h/4h/5h/<6h>/9h/12h/18h/24h
                       Ink Status ─────────── K/C/M/Y
                       Roll Length ────────── <Off> ──────────────────► Ⓑ
                                              Roll1
                                              Roll2
                                              Roll3
                       Head Wash
                       CR Maintenance
                       Initialization ────── ALL
                                              Media Type
                                              Except Media Type
                       Life Times ─────────── Head
                                              Pump
                                              CR Motor
                                              PF Motor
                       IP Address ─────────── 000.000.000.000~<192.168.001.253>~
                                              255.255.255.255
                       Subnet Mask ────────── 000.000.000.000~<255.255.255.000>~
                                              255.255.255.255
                       Gateway ────────────── 000.000.000.000~<192.168.001.254>~
                                              255.255.255.255
                       Front Interlace ───── Off
                                              <On>
                       Temporary
To Setup menu diagram (Ready to Print)(3/3)

Ⓐ Flushing menu
Return Count ──────────── 1Cnt~<5Cnt>~999Cnt

Ⓑ Roll Length menu
Roll Kind ─────────────── 1m~<30m>~99m
```

Setup menu diagram (Ready to Print)(2/3)

➤ To Setup menu diagram (Ready to Print)(2/3)   A-3

└─ <Type 1>~Type 30 ─────────── Print Mode ──────────── Quality 1
                                                        ├─ Quality 2
                                                        ├─ Quality 3
                                                        ├─ Quality 4
                                                        ├─ Graphics 1
                                                        ├─ <Graphics 2>
                                                        ├─ Banner 1
                                                        ├─ Banner 2
                                                        ├─ Banner 3
                                                        └─ Banner 4
                               ├─ PF Adjust ─────────────────────► Ⓐ
                               ├─ Pre Heater ─────────────── Off/<30℃>~50℃
                               ├─ Platen Heater ──────────── Off/<30℃>~50℃
                               ├─ After Heater ───────────── Off/<30℃>~50℃
                               ├─ Standby Heating ────────── 10min.~<60min.>~240min.
                               └─ Vacuum Fan ─────────────── Low/<High>

➤ ⒶPF Adjust menu

├─ Initial Print ─────────────────── 100mm~<250mm>~500mm
├─ Initial Change
├─ Confirm Print ─────────────────── 100mm~<250mm>~500mm
├─ Micro Print
└─ Micro Change ─────────────── -20pulse~<0>~20pulse

Setup menu diagram (Ready to Print)(3/3)

To Setup menu diagram (Ready to Print)(3/3)

- Test Print
  - Nozzle Check
  - Mode Print
  - Set List
  - ALL Set List
  - Palette
- Adjust Print
  - Confirm
  - Bi-D Quality
  - Bi-D Normal
- Cleaning
  - Economy
  - Normal
  - Strong
  - LittleCharge
- Selection
  - MediaType — Off / <On>
  - Effect — Off / <On>
  - Flushing — Off / <On>
  - Side Margin — Off / <On>
  - Media Initial — Off / <On>
  - Media Width — Off / <On>
  - Take-up — <Off> / On
  - Feed — <Off>
  - Origin — Off / <On>
  - Prev. Stick — Off / <On>
  - Head Fan — <Off>
  - CR Movement — Off / <On>
  - Overwrite Cnt — Off / <On>
  - Overwrite Wait — Off / <On>
  - Slant Check — Off / <On>
  - Auto Cleaning — Off / <On>
  - Ink Status — Off / <On>
  - Roll Length — Off / <On>
  - Head Wash — Off / <On>
  - CR Maintenance — Off / <On>
  - Initialization — Off / <On>
  - Life Times — Off / <On>
  - IP Address — Off / <On>
  - Subnet Mask — Off / <On>
  - Gateway — Off / <On>
  - Front Interlace — Off / <On>
  - ALL On
  - ALL Off
- Version
  - Main
  - Controller

Setup menu diagram
(Receiving/Converting/Printing)

```
── PrintStart
── Temperature ──────────────── ── Pre Heater
                                ── Platen Heater
                                └─ After Heater
── Pre Heater ──────────────────── Off/30℃~50℃
── Platen Heater ───────────────── Off/30℃~50℃
── After Heater ────────────────── Off/30℃~50℃
── PF Micro Adj. ───────────────── -20pulse~0~20pulse
└─ Backup
```

Setup menu diagram

1 Safety instructions
This chapter explains about the printer installation, warning terms which the operator needs to know, caution items and warning labels stuck on the printer main unit.

2 Product overview
This chapter explains about the features of the printer along with the names and functions of each part.

3 Basic usage
This chapter explains how to handle the printer.

4 Daily maintenance
This chapter explains the step of the daily maintenance.

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

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