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OPERATION MANUAL

Full-Color Inkjet Printer

DrafStation

RJ-901X RJ-900X



Rev. RJ900XE-A-05

Important Notice

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

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

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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.

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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.

Product Activation Guide

This manual explains the procedures when the printer starts up for the first time.

Operation Manual (this manual)

2. Purpose and Target Readers

This manual explains preparations before use and operation procedures for MUTOH Full Color Ink Jet Printer RJ-900X series.

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

Before using this printer, make sure that you fully understand the contents and instructions in this manual.

3. Manual Configuration

Section	Description
1 Safety instructions	This chapter explains warning terms, safety precautions and warning labels on the product that operators and installation personnel need to know.
2 Product overview	This chapter explains the features of the printer along with the names and functions of each part.
3 Before using	This chapter explains necessary steps before using the printer.
4 Handling the printer	This chapter explains how to handle the printer.
5 Daily maintenance	This chapter explains the step of the daily maintenance.
6 Troubleshooting	This chapter describes possible troubles during the use of this product and countermeasures.
7 Appendix	This chapter describes each printer specification, Options/Supply, and user support.

NOTE

- "1 Safety instructions" to "3 Before using" must be read before using the printer.
- Read "5 Maintenance" through "7 Appendix" as necessary.

4. Manual Notation

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

Warning	Meaning
	Failure to follow the instruction may result in serious injury or death.
	Failure to follow the instruction may result in minor injury or damage to the product.
NOTE	Special attention is needed.
TIP	Indicates useful tips for operating or understanding the printer.
\bigcirc	Indicates "prohibited" operations.
0	Indicates "required" operations.
LF .	Indicates reference pages in this manual.

TABLE OF CONTENTS

1	Safety	instructions
---	--------	--------------

1.1	Warnings, cautions and notes 1-2		1-2
1.2	2 Important safety instructions 1		1-3
1.3	Wa	Irning labels	1-6
		Handling the operation procedure labels	
1.3	1.3.2 Locations and types of warning labels1		1-7
1.4	Ор	eration procedure labels	1-8
1.4	1.1 ·	Handling the operation procedure labels	1-8
1.4	.2	Locations and types of operation procedure labels	1-9

2 Product overview

2.1	Fea	atures
2.2	Nar	me of the parts and functions 2-3
	2.2.1	Front section (RJ-901X)
	2.2.2	Front section(RJ-900X)
	2.2.3	Rear section (RJ-901X)2-5
	2.2.4	Rear section (RJ-900X)2-6
	2.2.5	Operation panel
	2.2.6	Indicator Display
	2.2.6	6.1 Contents of Indicator display
2.3	Prii	nter status
	2.3.1	Normal
	2.3.2	Setup menu display
	2.3.3	Changing printer status2-12

3 Before using

3.1	Power cable connection 3-2
3.2.1	Turning the power ON/OFF 3-5 1 Turning the power ON 3-5 2 Turning the power OFF 3-6
3.3	Installing ink cartridges 3-8
3.4	Media handling
3.4.1	
3.4.2	
3.4.3	
3.4.4	Releasing the Partial Function of Pressure Arms

3.4.5	Setting media type	. 3-26
3.5 Tes	st Print	.3-29
3.5.1	Setup Print	
3.5.2		
3.5.3 3.5.4	Palette Print	
	nnecting the printer to PC	
3.6.1 3.6.2	System requirements	
3.6.3	Connecting network interface cable	
3.6.4	Connecting the USB cable	
3.6.5	Setting IP Address	
3.7 Ins	talling / Unistalling Printer Driver	.3-41
3.7.1	Printer Driver	
3.7.2	Installing the Printer Driver (for Network Connection)	. 3-41
3.7.3	Installing the Printer Driver (for USB Connection)	
3.7.4	Uninstalling the Software.	
3.7.5 3.7.6	Changing the Rated Value of Print Settings	
3.7.0	Creating LPR Port	
0.111		
4 Ha	Indling the printer	
4.1 Pri	nt flow chart	4-2
4.2 Me	dia	4-3
		4-3
4.2 Me 4.2.1 4.2.2 4.2.3	dia. Media Cautions on handling media Precaution on storing media	4-3 4-3 4-4
4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4	dia. Media. Cautions on handling media Precaution on storing media Printing area	4-3 4-3 4-4 4-4
4.2 Me 4.2.1 4.2.2 4.2.3	dia. Media Cautions on handling media Precaution on storing media	4-3 4-3 4-4 4-4
4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5	dia. Media. Cautions on handling media Precaution on storing media Printing area	4-3 4-3 4-4 4-4 4-5 4-6
 4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Me 	dia. Media. Cautions on handling media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver.	4-3 4-3 4-4 4-5 4-6 4-8 4-9
 4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Me 4.4 Set 4.4.1 	dia. Media. Cautions on handling media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure	4-3 4-3 4-4 4-4 4-5 4-6 4-8 4-8 4-9
 4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Me 4.4 Set 4.4.1 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items.	4-3 4-3 4-4 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.4.2 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items. 2.1	4-3 4-3 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10
 4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Me 4.4 Set 4.4.1 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu	4-3 4-4 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.4.2 4.4.2 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu	4-3 4-3 4-4 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12
 4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Me 4.4 Set 4.4.1 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu	4-3 4-3 4-4 4-5 4-5 4-6 4-8 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu 2.5 Utility Menu	4-3 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13 4-14
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu	4-3 4-4 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13 4-14 4-15
 4.2 Me 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Me 4.4 Set 4.4.1 4.4.2 4.5.1 4.5.1 4.5.1 4.5.1 4.5.1 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting ting the printer driver Printer driver setup procedure Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu 2.5 Utility Menu nu setup on the operation panel	4-3 4-3 4-4 4-5 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13 4-14 4-15 4-15 4-16
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.5.1 4.5.1 4.5.1 4.5.1 4.5.1 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure. Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu 2.5 Utility Menu nu setup on the operation panel Setup menu items 1.1 TestPrint Menu 1.2 MediaSet Menu	4-3 4-4 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13 4-14 4-15 4-15 4-16 4-16 4-16
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.5.15	dia. Media. Cautions on handling media Precaution on storing media Printing area Head height adjustment. Head height adjustment. dia eject tray setting tting the printer driver. Printer driver setup procedure. Printer driver setup bitems. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu 2.5 Utility Menu 2.4 Environment Setting Menu 2.5 Utility Menu 1.1 TestPrint Menu 1.2 MediaSet Menu 4.5.1.2.1 When dedicated media is set in Media item	4-3 4-3 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13 4-14 4-15 4-15 4-16 4-16 4-19
 4.2 Mee 4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.3 Mee 4.4 Set 4.4.1 4.4.2 4.5.1 4.5.1 4.5.1 4.5.1 4.5.1 4.5.1 4.4.2 	dia. Media. Cautions on handling media Precaution on storing media Precaution on storing media Printing area Head height adjustment. dia eject tray setting tting the printer driver Printer driver setup procedure. Printer driver setup items. 2.1 Basic Setup Menu 2.2 Advanced Setup Menu 2.3 Option Menu 2.4 Environment Setting Menu 2.5 Utility Menu nu setup on the operation panel Setup menu items 1.1 TestPrint Menu 1.2 MediaSet Menu	4-3 4-4 4-4 4-5 4-6 4-6 4-8 4-9 4-9 4-9 4-9 4-9 4-10 4-11 4-12 4-13 4-14 4-15 4-16 4-16 4-16 4-19 4-21

2	1.5.1.2.5	Initializing Adjust Print	4-34
4.5.1	1.3 Com	mand Menu	
4.5.1	1.4 Pens	Setup Menu	
4	4.5.1.4.1	When "panel" is set in the PenPrior. item	
4.5.1	1.5 Layo	ut Menu	
4.5.1	1.6 Func	tion Menu	
4.5.1	1.7 Netw	ork Menu	
4.5.1	1.8 Utility	y Menu	
2	1.5.1.8.1	When "Yes" is set at the Initial item	
2	1.5.1.8.2	Pre-feed Amount Menu	
2	4.5.1.8.3	Idle Auto Cleaning	
2	4.5.1.8.4	Printing Mode Auto Cleaning	
2	1.5.1.8.5	Pre-printing Mode Auto Cleaning	
2	4.5.1.8.6	Cleaning Types	
	4.5.1.8.7	Spitting Pass Count Menu.	
		sumption Menu	
-		ning Menu	
4.5.2	Menu Set	up Procedure	
4.6 Op	erating fr	om the operation panel	4-54
4.6.1	-	d	
4.6.2		printing operation	
4.6.3			
4.6.4		e selection	
4.6.5		Media Feed Compensation	
4.6.6		Printing.	
	. adding i		

5 Maintenance

5.1 Rep	placing consumable components
5.1.1	Replacing ink cartridges
5.1.2	Replacing roll media
5.1.3	Replacing razor blade
5.1.4	Replacing waste fluid box
5.1.5	Replacing Flushing Box Sponges
5.2 Cle	aning the printer
5.2.1	Cleaning the outer case
5.2.2	Cleaning inside the printer
5.2.3	Head cleaning
5.2.4	Cleaning Cleaning Wiper
5.3 Tra	nsfer and transportation 5-33
5.3.1	Transferring the printer
5.3.2	Transporting the printer

6 Troubleshooting

6.1 Mal 6.1.1 6.1.2 6.1.3 6.1.4	function and failure of the product6-2Problem at installation and introduction.6-2.1If you have connected using the USB cable before installing the driver.6-4Cannot generate graphics at all6-5Media-related troubleshooting6-7Printing-related troubleshooting.
6.2 Erro 6.2.1 6.2.2	or messages
6.2.3 6.2.4 6.2.5	Data error display and remedies
6.3 The 6.3.1 6.3.2	e media is jammed

7 Appendix

7.1 Pro	oduct specifications	7-2
	Printer specifications	
7.1.2	Printing operation specifications	7-4
7.2 Int	erface specification	7-7
7.2.1	USB interface specification	7-7
7.2.2	Network interface specification	7-8
7.3 Op	otions/Supply list	7-9

1 Safety instructions

This chapter explains warning terms, safety precautions and warning labels on the product that operators and installation personnel need to know.



• When performing installation and operation of the printer, be sure to follow the instructions and warnings mentioned in this book.

1.1 Warnings, cautions and notes

The contents of alarm display written in the Operation Manual and warning label stuck on main body of the printer are classified into the following three steps according to priority (accident's magnitude) of danger.

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

Warnings	Meaning
WARNING	Failure to follow the instruction may result in serious injury or death.
	Failure to follow the instruction may result in minor injury or damage to the product.
NOTE	Special attention is needed.

1.2 Important safety instructions

In order to use the printer safely, the general notes which must be followed are explained.



Do not install the printer in the following places where there is a possibility that the printer may be damaged or might fall or be fallen by chance.

- On a shaky stand
- Slanting location
- · Places where vibration of other machines etc. is transmitted

Do not stamp on the printer or do not place heavy things on top of it. The printer may be damaged or might fall or be fallen by chance.



Cover the printer with blanket and cloth like tablecloth and do not close the vent. If the vent is closed, the printer could accumulate heat inside and may cause fire.



Do not install the printer in places where the humidity is high and dusty. It could lead to electric shock and fire.



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



Do not take out or insert 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 a lightning strikes.
- Water pipe and faucet

The earth might not work if a plastic pipe is connected in the middle of the metal pipe.



Do not insert or drop metal or objects which are easily combustible through the openings such as fresh air inlet into the printer. It could lead to an electric shock and fire.



When 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 and fire. Immediately turn off the power switch, disconnect the power plug from the electric socket, and contact MUTOH local dealer.



While installing option items, be sure to turn OFF the power of the printer and pull out the power plug. It could lead to an electric shock.



Wire the various codes (cable) as directed in the Operation Manual. Mistaken wiring could cause fire.



Be sure to use the power cable supplied with the printer. If other power cables are used, it would cause an electric shock or fire.



Make sure to use only the specified power supply (AC 100 V - 120 V or AC 200 V - 240 V). If the 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 200 V - 240 V). Do not use complex 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.



- Pay attention to the following points, while handling power cable.
- Do not do anything forcefully on the power cable.
- Do not keep 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 while handling 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.
- The power plug is firmly inserted to the edge of the power socket.



Wear protective equipment (gloves, goggles or eye protection, protective mask, protective clothing) when handling ink cartridge or waste fluid box. If the ink gets into the eyes or sticks to the skin, immediately wash off with water. It might possibly cause irritation and light inflammation of eyes. In case of any abnormality, consult the physician immediately.

Do not disassemble the ink cartridge. If disassembled, there is a possibility that the ink might come into contact with eyes or skin.

Be careful to see that fingers are not caught in between opening and closing the media cover.

Do not use volatile solvents such as thinner, benzene, or alcohol. These could damage the paint.

Be careful that moisture does not enter the printer. There is a possibility that electric circuit inside the printer might get short circuited.

Do not open covers attached with screws under any circumstance. There is a possibility of receiving an electric shock or printer breakdown.

Do not touch the edge of the razor blade. Doing so may cause injury.



Do not hit the edge of the razor blade with hard objects, or do not drop the razor blade. There is a possibility that razor blade edge may become blunt or get chipped off.

Do not make the main body of the printer slanting or place in vertical positions or do not keep the printer upside down. There is a possibility that ink inside the printer may leak. Moreover, normal operation after shifting (to these positions) cannot be guaranteed.

To open and move the printer to the installation place, be sure to take the help with the following personnels.

- RJ-901X: 2 or more
- RJ-900X: 3 or more



While taking out the printer from the container box, make sure to remove the vinyl sheet and hold the handles on the printer side. If the printer is lifted with the vinyl sheet attached, there is a possibility that the printer might fall slipping from hands and damaged.



To install the stand to the printer, make sure to take the help with the following personnels.

- RJ-901X: 2 or more
- RJ-900X: 3 or more



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



If the printer is not used for a longer 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 which 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.

Set the roll media on an even surface such as desk etc. If the roll media is set in such a way that the scroller is standing vertical, there is a possibility that the scroller might get damaged.



Be sure to turn OFF the power, and disconnect the power plug when cleaning the printer.



Transfer the printer maintaining the horizontal position.



This equipment is not suitable for use in locations where children are likely to be present.

1.3 Warning labels

This section explains handling, location and types of warning labels.

Warning labels are applied onto the product where special attention is required. Understand the locations and the descriptions of the danger associated with each label before operating the printer.

1.3.1 Handling the operation procedure labels

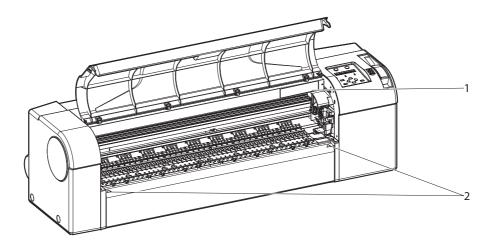
When handling the warning labels, be careful about the following points.

NOTE

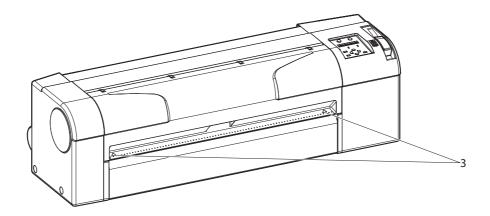
- Check whether all the warning labels can be read. If the letters or illustrations on the label are not clear, remove the dirt from the label.
- Use cloth, water and neutral detergent for removing dirt from the warning label. Avoid either organic solvents or gasoline.
- It is necessary to replace the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

1.3.2 Locations and types of warning labels

Pasting locations of the warning label is shown in the following figure.







No.	Types of warning label	
3	Personal injury may occur. Keep clear of moving and rotating parts.	

1.4 **Operation procedure labels**

This section explains handling, location and types of operation procedure labels.

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

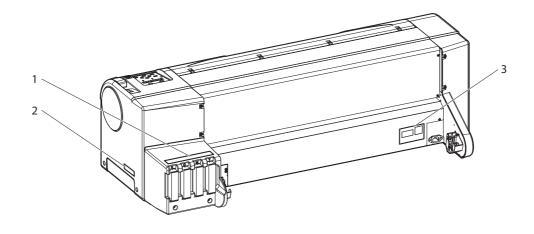
NOTE

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

- Check whether all operation procedure 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 operation procedure label. Avoid organic solvents or gasoline.
- It is necessary to replace the labels if they are damaged, lost or illegible. If the operation procedure labels have to be replaced, contact MUTOH local dealer.

1.4.2 Locations and types of operation procedure labels

Pasting locations of the operation procedure labels are shown in the following figure.



No.	Types of operation procedure label	Reference
1		27 3.3 Installing ink cartridges 27 5.1.1 Replacing ink cartridges
2	Protective equipment label (Mask • Glasses • Gloves • Protective clothing) Wear protective equipment when handling ink.	にする.3 Installing ink cartridges にする.1.1 Replacing ink cartridges にする.1.4 Replacing waste fluid box にする.1.5 Replacing Flushing Box Sponges
3	WLITCH Image: Complex With Liggs and the system VOLTAGE 100V-240V ~ FREQUENCY 50 / 60 Hz CURRENT 2A-1.1A Image: Complex With Liggs and the system Image: Complex With Liggs and the system VOLTAGE 100V-240V ~ FREQUENCY 50 / 60 Hz CURRENT 2A-1.1A Image: Complex With Liggs and the system Image: Complex With Liggs and the system Stating plate "~" on the rating plate represents AC voltage. The following warning symbols are requirements in China for "low altitude use" and "non-tropical location".	_
	*The contents of the rating plate varies depending on the product and regions.	

2 **Product overview**

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

2.1 Features

This section explains the main features of the printer.

(1) High resolution quality image

The head is provided with on-demand piezo head which has proven high print quality and high performance.

As 1440 dpi and 2880 dpi (tab control specification) is realized, a sharp and minute image can be printed from line drawings to images as in CAD drawings

(2) Head discrete type ink cartridge

Discrete type cartridge of ink portion and head portion is adopted. It is not possible to soil your hands during ink replacement.

Moreover, the pigment ink is employed for the black ink which is abundantly used in line drawings. Conventional printers had difficulty in achieving affinity for tracing paper, bond paper, etc. This printer achieving this feature, and also has improved weather resistance.

(3) Improved feeding performance for thin media

The function to partially release Pressure arms of the media is equipped, minimizing the trouble when using thin media.

(4) Improvement in working efficiency

Setup of roll media (RJ-901X only) or sheet media, replacement of ink cartridge from front of main body has become possible.

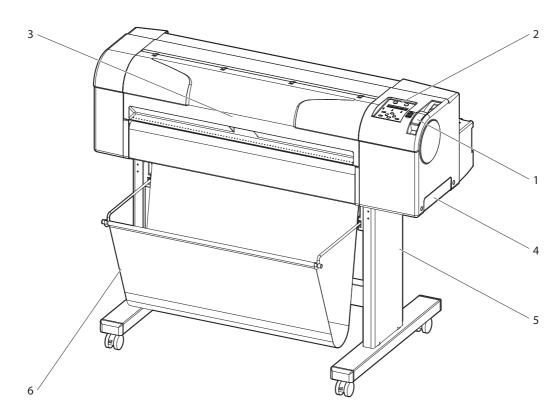
(5) Improved Operability

You can make settings for the printer easily from Operation panel on the printer. All settings necessary for printing are displayed on the Properties screen of Windows driver, allowing you to perform optimum printing with a few steps.

2.2 Name of the parts and functions

Names and functions of each part are explained.

2.2.1 Front section (RJ-901X)



No.	Name	Function
1	Media loading lever	It is the lever for fixing or releasing the media.
2	Operation panel	Operation condition setting, printer display and various function setting are performed.
3	Front cover	It is the cover for protecting user from coming in contact with the driving mechanism during the printer operation. It is opened and closed during Razor blade replacement and paper jam. It is normally closed.
4	Waste fluid box	It is the box for collecting waste ink discharged from the printer.
5	Media eject tray	It is a part of the stand. It holds the output media.

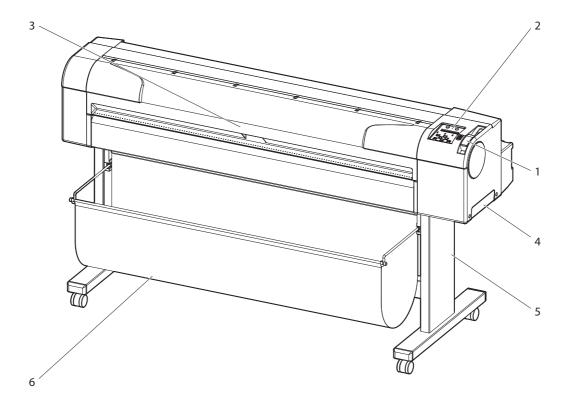
Option parts

No.	Name	Function	
6	Stand	It is used when installing the printer on leveled floor.	
7	Media eject tray	It is a part of the stand. It holds the output media.	

NOTE

• Option parts may vary by region. Please contact MUTOH local dealer.

2.2.2 Front section(RJ-900X)



No.	Name	Function	
1	Media loading lever	It is the lever for fixing or releasing the media.	
2	Operation panel	Operation condition setting, printer display and various function setting are performed.	
3	Front cover	It is the cover for protecting user from coming in contact with the driving mechanism during the printer operation. It is opened and closed during Razor blade replacement and paper jam. It is normally closed.	
4	Waste fluid box	It is the box for collecting waste ink discharged from the printer.	
5	Stand	It is used when installing the printer on leveled floor.	

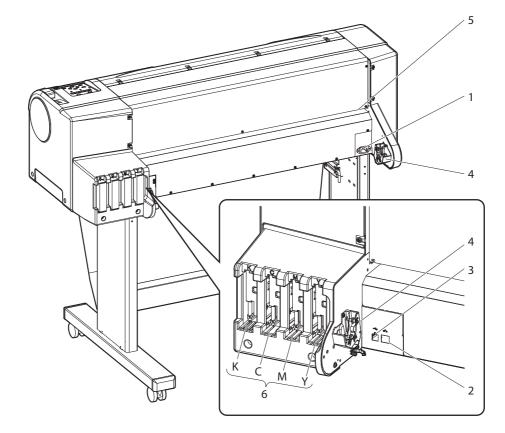
Option parts

No.	Name	Function
6	Media eject tray	It is a part of the stand. It holds the output media.

NOTE

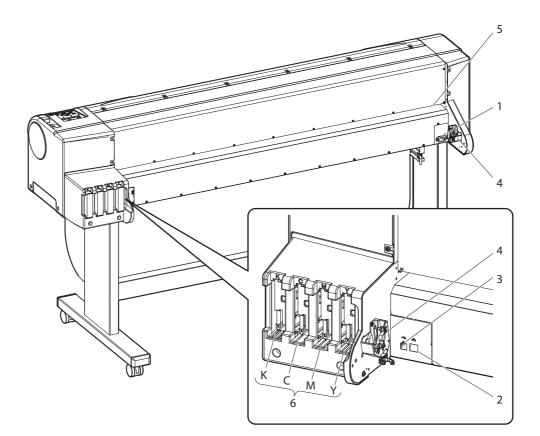
• Option parts may vary by region. Please contact MUTOH local dealer.

2.2.3 Rear section (RJ-901X)



No.	Name	Function
1	AC inlet	Power cable plug is correctly inserted in the socket.
2	Network interface connector	It is the connector which connects the network interface cable.
3	USB connector	It is the connector which connects the USB2.0/1.1 cable.
4	Scroller receiver	Scroller is set when using roll media.
5	Media feed slot	It is the slot for feeding media.
6	Ink cartridge slot	It houses the ink cartridge.

2.2.4 Rear section (RJ-900X)



No.	Name	Function
1	AC inlet	Power cable plug is correctly inserted in the socket.
2	Network interface connector	It is the connector which connects the network interface cable.
3	USB connector	It is the connector which connects the USB2.0/1.1 cable.
4	Scroller receiver	Scroller is set when using roll media.
5	Media feed slot	It is the slot for feeding media.
6	Ink cartridge slot	It houses the ink cartridge.

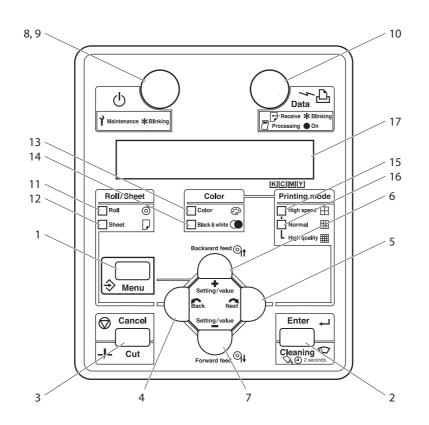
2.2.5 **Operation panel**

Operation panel is used during setup of operation conditions, printer display and setup of various functions.

Names of each operation key and status display along with the functions are explained.

TIP

- For details on the operation method of operation panel, refer to the followings.
 - When performing menu setting from operation panel: 13 4.5 Menu setup on the operation panel
 - When performing various operations in the operation panel: 137 4.6 Operating from the operation panel



(1) Operation keys



- The operation keys are assigned with functions and names which change with printer status (Normal or Setup menu display). For details on printer status, refer to "2.3 Printer status".
- The \bigcirc symbol means "standby". Even when the power button is not turned on, the printer consumes a tiny amount of power so long as the power cable is connected. This state is referred to as the power being "off" in this Manual.

No.	Name	Normal	Setup menu display
1	[Menu] key	Changes to Setup menu.	Shifts from Setup menu display to Normal.
2	[Enter] key	-	 The menu to set is selected and it shifts to the next hierarchy. The value is determined and saved.
	[Cleaning] key	The printer head will be cleaned, if this key is continuously pressed for two seconds or more.	-
3	[Cancel] key	 During printing: Printing is forcefully terminated and one file of the remaining data is deleted. During receiving/analysis: Data that is already received and analyzed is deleted and one file of subsequent receiving data is ignored. Ink dry timer wait: Ink dry timer wait is canceled and the media is discharged. 	 Returns to the previous menu hierarchy. Change in the setup value becomes invalid. Shifts from Setup menu display to Normal.
	[Cut] key	Before data receiving when roll media is set, cut the roll media at that position.	-
4	[Back] key	Media type is set.Lamp of media setup lights up (green).	Menu is changed to reverse feeding.
5	[Next] key	Printing and color mode are set.The lamps of printing mode and color mode that is set light up (green).	Menu is changed to forward feed.
6	[Backward feed↑] key	Media is fed in reverse direction.	-
	[Setting value +] key -		 The value is changed to forward direction. The value is increased during numerical input.
7	[Forward feed↓] key	Media is fed in the forward direction.	-
	[Setting value-] key	-	 The value is changed to reverse direction. The value is decreased during numerical input.
8	[Power] key	The printer is turned on or off.	The printer is turned on or off.

(2) Display section

No.	Name	Color	Status	Description
9	Power lamp	Blue	Lamp ON	Power ON.
			Lamp blinks	Lamp blinks An error has occurred. Error content is displayed on the LCD.
			Lamp OFF	Power OFF.
		Green	Lamp ON	Running in the power saving mode.
10	Data lamp	Orange	Lamp ON	Analyzing received data.Under printing.
			Lamp blinks	Receiving data.
			Lamp OFF	Data is not received/analyzed.
11	Roll media lamp	Green	Lamp ON	Media is set to roll media.
			Lamp OFF	Media is set to sheet media.
12	Sheet media lamp	Green	Lamp ON	Media is set to sheet media.
			Lamp OFF	Media is set to roll media.
13	Color lamp	Green	Lamp ON	Color mode is set to Color.
			Lamp OFF	Color mode is set to Monochrome.
14	Black & white lamp	Green	Lamp ON	Color mode is set to Monochrome.
			Lamp OFF	Color mode is set to Color.
15	High speed lamp	Green	Lamp ON	Printing mode is set as high speed.When standard lamp is also turned on, printing mode is set as high quality.
			Lamp OFF	Printing mode is set as standard.
16	Normal lamp	Green	Lamp ON	Printing mode is set as standard.When the high speed lamp is also turned on, printing mode is set as high quality.
			Lamp OFF	Printing mode is set as high speed.
17	LCD display section	-	-	Operation status of the printer and error message are displayed.



When Error requiring a restart (fatal malfunction for the printer operation) occurs, all lamps blink with alarm. Even if the malfunction is removed, when the error requiring a restart continues, contact MUTOH local dealer. \Im 6.2.5 Error requiring a restart

2.2.6 Indicator Display

In the following situations, Indicator is displayed to show the conditions of ink and cartridges on LDC display.

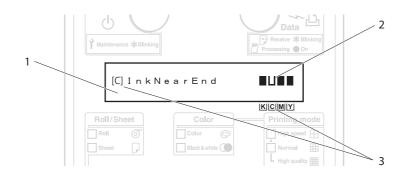
- In the normal operation
 LP 2.3.1 Normal
- During printing
- To display ink or cartridge errors
 126.2.2 Error message display and remedies

There is an alphabetic code printed below Indicator, indicating the following colors respectively:

- K: Black
- C: Cyan
- M: Magenta
- Y: Yellow

Also, in case of following errors, the above code is displayed at the beginning of an error message to identify the ink color.

- Ink Near End
- Ink End
- No cartridge



No.	Name		
1	LCD display section		
2	Indicator		
3	Ink colors		

NOTE

• If an error occurs on all ink colors, an error message will be displayed without alphabetic code.

2.2.6.1 Contents of Indicator display

No.	Indicator to display	the conditions of ink/cartridges
1		80 to 100% of ink remaining
2		60 to 80% of ink remaining
3		40 to 60% of ink remaining
4		20 to 40% of ink remaining
5		Less than 20% of ink remaining
6		Ink Near End
7	4	Ink End
8	×	No cartridge

2.3 **Printer status**

This chapter explains the printer status of the printer.

2.3.1 Normal

It is the condition in which the printer is ready to print with media loaded. The various functions for printing can be performed on the operation panel.

2.3.2 Setup menu display

It is in state in which various setup for printing can be done on the operation panel. Although the essential setting for normal printing is performed on printer driver or application, the same setting can also be performed from the operation panel.

2.3.3 Changing printer status

Change the printer status as follows.

(1) Normal \rightarrow Setup menu display

When the printer is in Normal state, press the [Menu] key on the operation panel.

• When "*Menu* TestPrint>" is displayed on the operation panel, the display shifts to the setup menu.

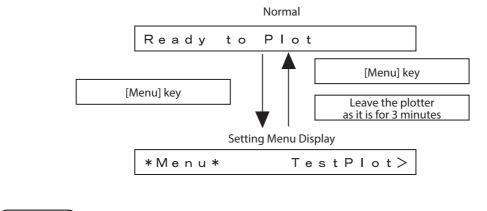


• For details on setup menu, refer to "4.5 Menu setup on the operation panel".

(2) Setup menu display \rightarrow Normal

While the printer is in setup menu display, if either of the following operation is done, the operation panel shifts to Normal display.

- [Menu] key on operation panel is pressed.
- In the Setup menu, leave the keys untouched for three minutes.



NOTE

• For details on Status message, refer to "6.2.1 Status messages".

3 Before using

This chapter explains the steps of basic installation before using the printer.

3.1 **Power cable connection**

Power cable connection procedure is explained.

- Be sure to use the power cable supplied with the printer. If other power cables are used, it would cause an electric shock or fire.
- Do not use damaged power cable. It could lead to an electric shock and fire.

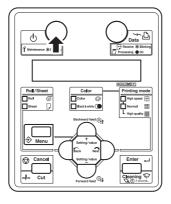
- Pay attention to the following points, while handling power cable.
 - Do not do anything forcefully on the power cable.
 - Do not keep heavy objects on the power cable.
 - Do not bend, twist or pull the power cable by force.
 - Do not route the power cable near heating appliances.

NOTE

• Contact MUTOH local dealer in case of power cable damage.

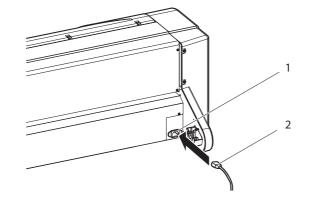
Install the ink cartridge as shown in the following procedure.

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



NOTE

• Power is turned ON when the [Power] key of operation panel is pressed. Press the key once again and turn OFF the power. 2. Connect the power cable to the AC inlet on the back of the printer.



No.	Name
1	AC inlet
2	Power cable

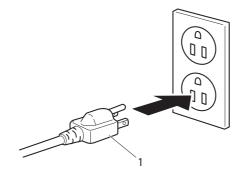
3. Insert the power cable plug into the power socket.

- Do not take out or insert 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 200 V 240 V). If the 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 200 V - 240 V). Do not use complex multiple plugs on the same socket. This could generate heat and might cause fire.
- Make sure to use dedicated power socket with earth terminal for power supply, and connect an earth terminal to it. 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 a lightning strikes.
 - Water pipe and faucet The earth might not work if a plastic pipe is connected in the middle of the metal pipe.

- Pay attention to the following points while handling 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.
 - The power plug is firmly inserted to the edge of the power socket.
- If the printer is not used for a longer 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 which 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.



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



ſ	No.	Name
	1	Power plug

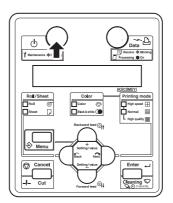
Turning the power ON/OFF 3.2

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

Turning the power ON 3.2.1

Follow the procedure below to turn the power ON.

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



- The printer starts the initial operation. •
- When the initial operation is complete, the printer enters to Normal state. ٠

NOTE

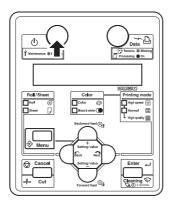
• If there is a problem during the initial operation, a message is displayed on Operation panel and the printer may stop operating.

If operation stops, refer to "6 Troubleshooting" and take an appropriate measure.

3.2.2 Turning the power OFF

Follow the procedure below to turn the printer OFF.

- 1. Verify the following regarding the operational condition of the printer.
 - Printing or other operations are not in progress.
 - Operation panel display is in Normal state.
- 2. Press the [Power] key on Operation panel to turn OFF the printer.
 - The Power lamp on Operation panel is turned off.
 - NOTE
 - If Operation panel is in the following status, the power is ON.
 - The [Power] key is pressed in.
 - The Power lamp lights up. Press the key once again to turn OFF the power.



• The printer turns the power OFF.

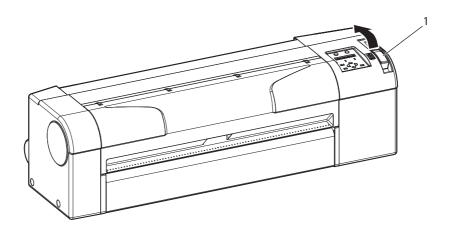
- When the media is set, "Lift the lever" is displayed on Operation panel. Raise Media loading lever.
 - "Please Wait" is displayed on Operation panel.
 - All the lamps on Operation panel and the LCD monitor are turned OFF.
 - The printer automatically turns the power OFF.

NOTE

• If there is a problem during turning OFF operation, a message is displayed on Operation panel and the printer may stop operating.

If operation stops, refer to "6 Troubleshooting" and deal with the problem.

- After turning OFF the printer, wait for ten seconds or longer to turn it ON again.
- 3. Push the media loading lever backward when the printer is not used for a long time.



No.	Name
1	Media loading lever

3.3 Installing ink cartridges

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

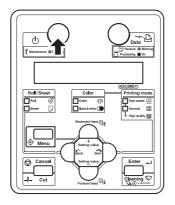
- Wear protective equipment (gloves, goggles or eye protection, protective mask, protective clothing) when handling ink cartridge. If the ink gets into the eyes or sticks to the skin, immediately wash off with water. It might possibly cause irritation and light inflammation of eyes. In case of any abnormality, consult the physician immediately.
- Do not disassemble the ink cartridge. If disassembled, there is a possibility that the ink might come into contact with eyes or skin.

NOTE

- When charging up with ink, use the ink cartridge of original manufacturer product. This printer has been adjusted for use of genuine ink cartridges. In case of using ink cartridge which is not a product of the original manufacturer,
 - Printing might become blurred and end of ink in the cartridge might no longer be correctly detected.
 - The damage caused by improper use 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.
 T3 Options/Supply list
- Do not give ink cartridges strong shake. Doing so may cause ink leakage.
- Do not disassemble the ink cartridge. A disassembled ink cartridge cannot be used.
- When the ink cartridge is moved from a cold place to a warm place, keep the ink cartridge unused for three hours or more in the printing environment.

Install the ink cartridge as shown in the following procedure.

1. Turn ON the power of the printer.

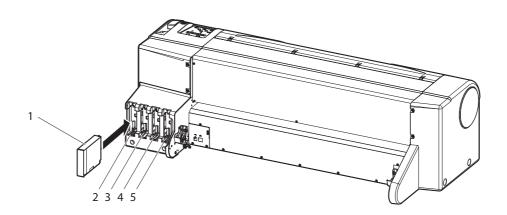


- 2. Printer initializes.
 - Operation panel displays "[***] Cartridge".

- [***] represents the ink color. For details, refer to "2.2.6 Indicator Display". If an error occurs on all ink colors, an error message will be displayed without alphabetic code.
- 3. Take out a new ink cartridge from the package.
- 4. Insert a new ink cartridge into the appropriate ink cartridge slot.
 - Keep \blacktriangle mark of the ink cartridge facing up and insert into the slot.



- Insert the ink cartridge firmly to the end of the slot.
- Install all four colors of ink cartridge.
- The slot for the ink cartridge is specified for the color of the ink cartridge. Match the color marked by the side of slot with the color of the ink cartridge.
- Each color cartridge has different shape to avoid wrong insertion. If it cannot be inserted into the slot, do not push into the slot by force because there is a possibility of incorrect insertion.



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

- 5. Operation panel displays "Ink Refill **min", and the initial ink charging starts.
 - Ink charging takes about five minutes. Initial ink charging and pause operation are repeated during initial charging.



- Follow the following points during ink charging.
 - Do not turn OFF the printer power.
 - Do not pull out the printer power cable.
 - Do not open the front cover.
 - Do not push media loading lever to the back side.
- 6. After ink charging is completed, the operation panel displays "Paper End".



- If the printer is used just after initial charging completion, the following phenomena may occur.
 - Printed line becomes blurred.
 - White lines appear in the printed media.
- In such cases, refer to the following to perform "Longer" cleaning as shown in "5.2.3 Head cleaning". Then, check the nozzle check pattern.
- If there is no improvement in the print result even after performing "Longer" cleaning, leave the printer unused for an hour or more. Then perform "Longer" cleaning again and check the print result.

If nozzle missing still persists, contact your local Mutoh dealer.

3.4 Media handling

Media handling, how to install and load, and setting method of media type are explained.

NOTE

- Refer to the following for details on media handling.
 177 4.2 Media
- It is recommended to use a special media for this printer. Refer to the followings for types and details of media.
 X 4.2.1 Media
 X 7.3 Options/Supply list

3.4.1 Roll media loading

Loading procedure of the roll media is explained. Use the scroller supplied with this printer for roll media loading.

NOTE

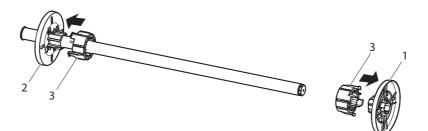
- It is possible to load the following roll media in the scroller enclosed in this printer.
 - RJ-901X: Two inches diameter media tube (outer diameter less than 100 mm, weight less than 5 kg)
 - RJ-900X:
 - Two inches diameter media tube (outer diameter less than 150 mm, weight less than 19 kg)



- When using the three-inch attachment as the scroller, the following roll media is loaded.
 - RJ-901X:
 - Three inches diameter media tube (outer diameter less than 100 mm)
 - RJ-900X: Three inches diameter media tube (outer diameter less than 150 mm)

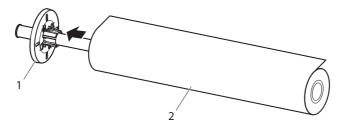
For details, refer to the following manuals. に習7.1 Product specifications に習7.3 Options/Supply list Load the roll media as shown in the following procedure.

- Set the roll media on an even surface such as desk etc. If the roll media is set in such a way that the scroller is standing vertical, there is a possibility that scroller might get damaged.
- 1. When using roll media of three-inch diameter media tube, the optional three-inch attachment should be used to the movable flange and fixed flange.



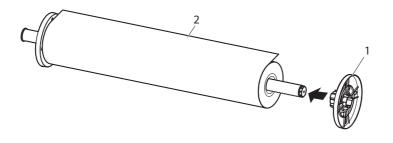
No.	Name
1	Movable flange
2	Fixed flange
3	Three-inch attachment

- 2. Set the roll media in the scroller, so that the roll media gets winded up anti clockwise direction when viewing from fixed flange.
- 3. Push the roll media completely until the roll media core hits the right edge of the fixed flange.



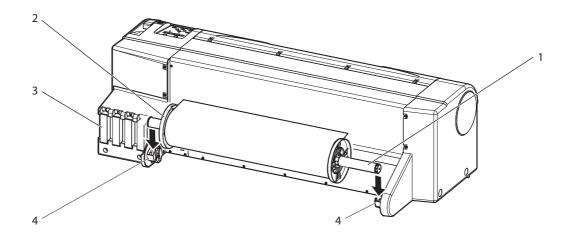
No.	Name
1	Movable flange
2	Roll media

4. Attach the movable flange so that it is firmly attached to the roll media core.



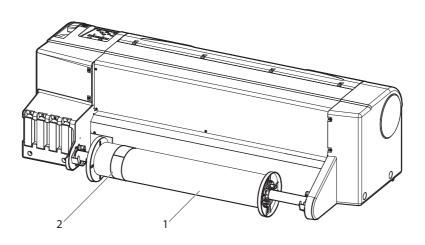
No.	Name
1	Movable flange
2	Roll media

5. Set the scroller to the scroller receiver so that the fixed flange is on the ink cartridge slot side.



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

- The roll media fixing belt provided with the optional scroller prevents the roll media from getting loosen, when the roll media in the printer is not used.
- Put the belt edge to the roll media, and wind the roll media by rotating it.



No.	Name
1	Roll media
2	Roll media fixing belt

3.4.2 Loading roll media

Loading roll media is explained.

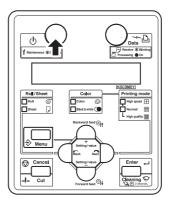
Set the roll media as shown in the following procedure.

NOTE

• When using media eject tray, set the media output tray in the direction in which the media is delivered.

For using media eject tray, refer to "4.3 Media eject tray setting".

1. Turn ON the power of the printer.



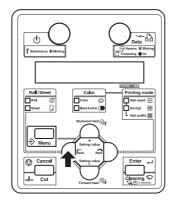


- Do not operate media loading lever during printer initialization. The carriage portion and the pressurizing roller portion touch each other, there is a possibility that the printer may break down.
 - Printer initializes.
 - Operation panel displays "Paper End".

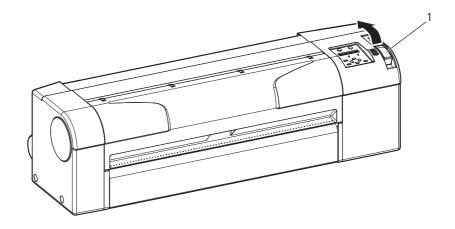
- 2. Press the [Back] key on the operation panel and select "Roll".
 - Roll media lamp lights up.



• If "Sheet" is selected in the operation panel when loading the roll media, the media will not be correctly loaded.



- 3. Push the media loading lever backward.
 - Operation panel displays "Lever Up".

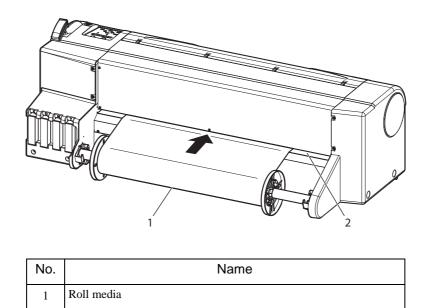


No.	Name
1	Media loading lever

4. Set the roll media to the media feed slot.



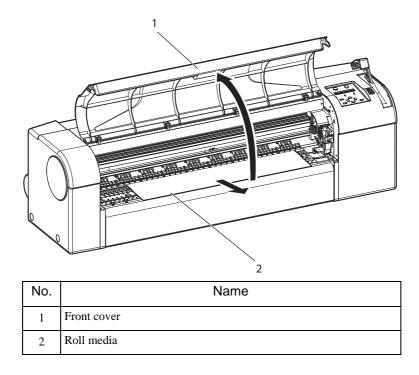
- If the roll media end gets loosen, perform loading after properly winding the media.
- If it is not straight when loading the new roll media, cut the front edge of the roll media. For roll media cutting method, refer to "4.6.3 Cut media".



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

Media feed slot

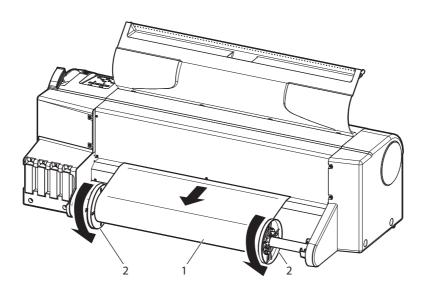
2



6. Wind back the roll media with scroller while pressing down the media edge, remove bending and slant of the media.

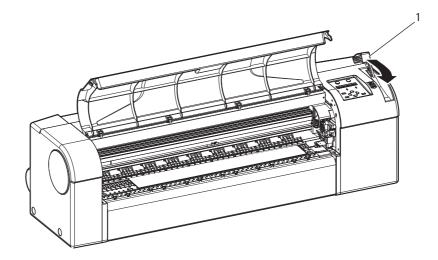


- Confirm that the right edge of the roll media do not go over right gets beyond the loading mark. There is a possibility that the print quality gets affected.
- Do not match the roll media right edge with loading mark by force while loading the roll media. This could lead to slant.



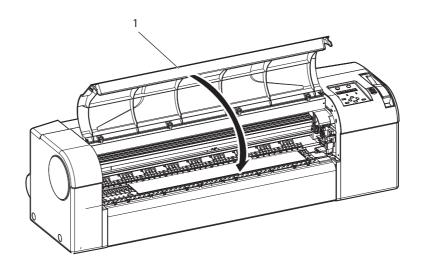
No.	Name
1	Roll media
2	Scroller

7. Pull the media loading lever forward.



No.	Name
1	Media loading lever

- If it is not straight when loading the new roll media, cut the front edge of the roll media. For roll media cutting method, refer to "4.6.3 Cut media".
- If the length of the edge to be cut is set on the media setup menu, the roll media edge is automatically cut after the media initialization. For setting method, refer to "4.5.1.2 MediaSet Menu".
- 8. Close the front cover.



No.	Name
1	Front cover

- Operation panel displays Media type setup menu.
 - TIP
- For changing the media type, set the media type as shown in "3.4.5 Setting media type".

3.4.3 Loading sheet media

Loading sheet media is explained. The following sizes of sheet media can be used with the printer.

RJ-901X

- Media width: A4 size to A1 plus size (210 mm to 610 mm)
- Media length: Maximum 1,200 mm

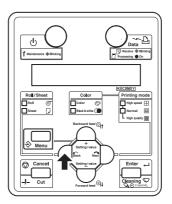
RJ-900X

- Media width: A4 size to A0 plus size (210 mm to 1,080 mm)
- Media length: Maximum 1,600 mm

Set the sheet media as shown in the following procedure.

- When the roll media is loaded, set the sheet media after winding back the roll media.
- When using media eject tray, set the media output tray in the direction in which the media is delivered. For using media eject tray, refer to "4.3 Media eject tray setting".

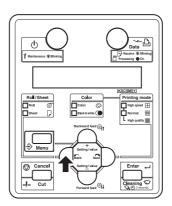
1. Turn ON the power of the printer.



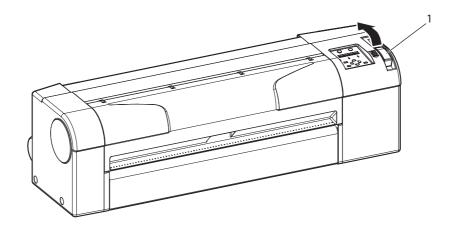
- Do not operate media loading lever during printer initialization. If the carriage portion and the pressurizing roller portion touch each other, there is a possibility that the printer may break down.
 - Printer initializes.
 - Operation panel displays "Paper End".
- 2. Press the [Back] key of operation panel, and select "Sheet".
 - Sheet media lamp lights up.



• If "Roll" is selected on the operation panel when loading sheet media, the media may not be correctly loaded.

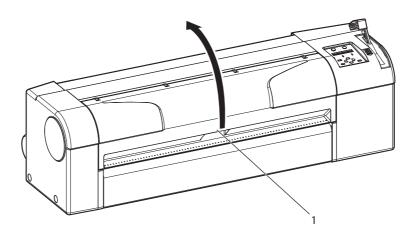


- 3. Push the media loading lever backward.
 - Operation panel displays "Lever Up".



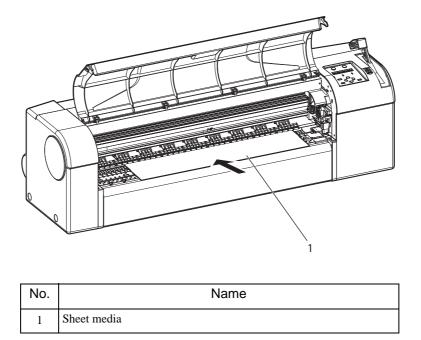
No.	Name
1	Media loading lever

4. Open the front cover.



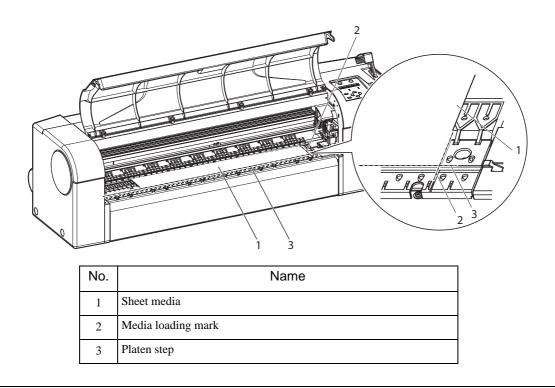
Ν	۱o.	Name
	1	Front cover

5. Insert the sheet media into the media feed slot on the printer front side.

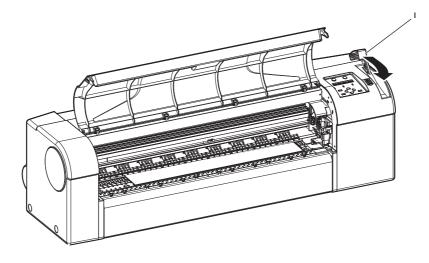


6. Align the right end of media to the media loading mark, and align the front edge to step of the platen respectively.

• If the sheet media right end shifts either to the right or the left from the loading mark, it would become as media loading error without media being detected. Load the media within the ±5 mm range from the loading mark.

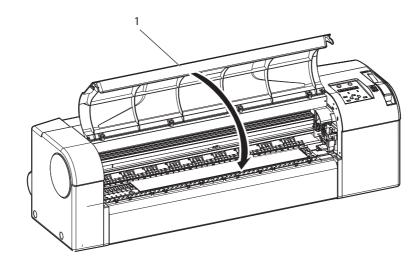


7. Pull the media loading lever forward.



No.	Name
1	Mddia loading lever

8. Close the front cover.



No.	Name
1	Front cover

• Operation panel displays Media type setup menu.

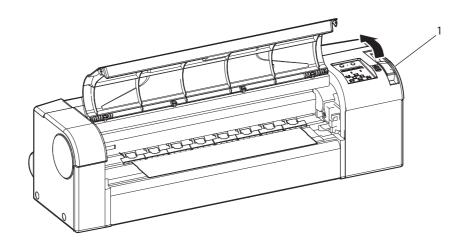
TIP

• To change the media type, follow **3.4.5** Setting media type and set the media type.

3.4.4 Releasing the Partial Function of Pressure Arms

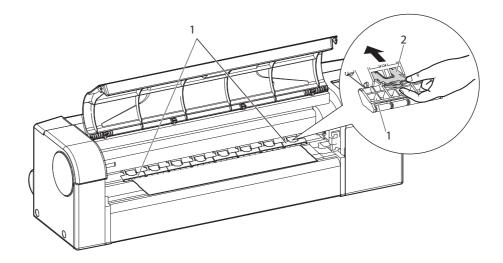
If thin media is creased while printing, release some of Pressure arms. This may prevent getting creases. Follow the procedure below to release Pressure arms.

1. Raise Media loading lever.



No.	Name	
1	Media loading lever	

- 2. Push the release switches of Pressure arms further in that are holding the sides of the media.
 - When the release switch is set further in, Pressure arms lose the pressure.



No.	Name
1	Pressure arms
2	Release switch

NOTE

- When releasing the function, make sure to release Pressure arms of both sides of the media as a set.
- 3. If media still gets creases, increase the number of Pressure arms to release.

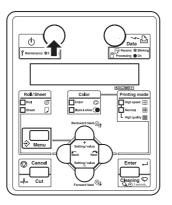


• The media may still get creases even when more Pressure arms are released.

3.4.5 Setting media type

Setting of media type is explained. Set the media type as shown in the following procedure.

1. Turn the printer ON and load the media.



• After the media is loaded, the display shifts to the media type setup menu.

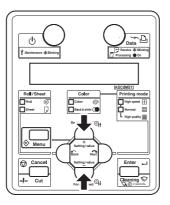
TIP

• Refer to the followings for media loading.

Cooling roll media

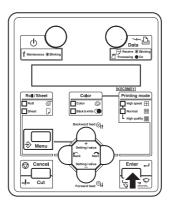
13 3.4.3 Loading sheet media

2. Press the [Setting value +] key or [Setting value–] key on the operation panel, and enter the selected number.



NOTE

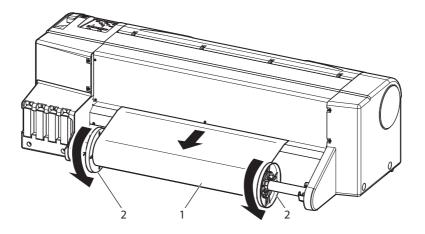
- For details about media types, refer to "4.2.1 Media".
- 3. Press the [Enter] key on the operation panel.



- Media type is determined.
- Operation panel displays "Media Checking", and media initial operation starts.

- If the following operations are performed on the media type setup menu, the printer shifts to the media initial operation without setting media type.
 - When the [Cancel] key of the operation panel is pressed
 - When key operations are not performed on the operation panel for 10 seconds
- 4. After media initial operation is completed, the operation panel displays "Print Ready", and the display shifts to Normal.

5. When using the roll media, wind back the roll media tightening with the scroller and the media slackness is tightened.



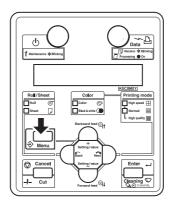
No.	Name
1	Roll media
2	Scroller

- 6. To use Media ejection tray, you have to set it first.
 CP 4.3 Media eject tray setting
 - This completes the media loading.

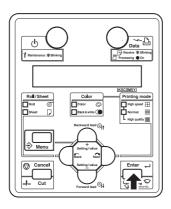
3.5 **Test Print**

Test printing is performed as shown in the following procedure, and confirm that the printer correctly works.

- Turn the printer ON and load a roll media or sheet media that is A3 or larger.
 Image: Im
- 2. Confirm that the printer functions normally.
- 3. Press the [Menu] key on the operation panel.

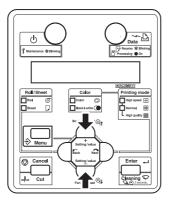


- Operation panel displays "*Menu* TestPrint>".
- Display shifts to Setting Menu.
- 4. Press the [Enter] key on the operation panel.



- Operation panel displays "TestPrint: Setup".
- Display shifts to Test Print menu.

- 5. Press the [Setting value +] key or [Setting value-] key on the operation panel, and select the item to print from the followings, and press the [Enter] key.
 - Setup Print
 - NozzleCheck
 - Palette Print
 - Maintenance



6. Start Printing for the selected item.



• Please refer to the following for details on each of the print list. 文字 3.5.1 Setup Print to 3.5.4 Maintenance

3.5.1 Setup Print

It is used for checking the setup item of the current printer.

NOTE

- Keep the printed setup print at hand.
 - TIP
- Refer to the following for printing procedure.
 X 3.5 Test Print

· · · · · · · · · · · · · · · · · · ·							
Panel	Info	rmation s	erialNo.	= ER1E0	00001		Temp. 249
Roll/Sheet = Roll	Model	= RJ-901)	(!	Error!			
Color = Color	PROM	= V 1.10	0	:None []	3 : N o n e	[]
Plot Mode = Normal	NVRAM	= V 1.01	1	:None []	4 : N o n e	[]
	Memory	/Size = 256MB	2	:None []	5 : N o n e	[]
Media Setup		Pen Set					
Media = User1 Dist.Adj			Panel	PenTone	=	Invalid	
Condition = Lines DataX	= 1000.00	Pen No.	Width	ColorNo.	Tone	(End)	(Join)
PitResoCR×PF= 360×360 RealX	= 1000.00	0	0.25mm	0	%	Round	Round
Direction = BiDir CutSheetSize	= Vertical	1	0.10mm	1	%	Round	Round
Thin Out C:100% M:100% Top Feed	= 0 mm	2	0. 13mm	2	%	Round	Round
Y:100% K:100% Manage Roll	= Invalid	3	0.18mm	3	%	Round	Round
InkDryTimer = Osec Cut RollTop		4	0.25mm	4	%	Round	Round
Stiffness = Normal		5	0.35mm	5	%	Round	Round
Roll Cut = Off		6	0.50mm	6	%	Round	Round
		7	0.25mm	7	%	Round	Round
Command Setup		8	0.25mm	8	%	Round	Round
Command = MH−GL, GL∕2 Merge	= Last	9	0.25mm	9	%	Round	Round
Origin = Center Quality	= ThinLine	10	0.25mm	10	%	Round	Round
Step = 0.025mm (CutSheetRot	ate = On)	11	0.25mm	11	%	Round	Round
Position = P1 (PositionOff	setX= 0mm)	12	0.25mm	12	%	Round	Round
Terminator = Special (PositionOff	setY= 0mm)	13	0.25mm	13	%	Round	Round
ImageReso. = 360dpi		14	0.25mm	14	%	Round	Round
OnlineTimer = 30sec		15	0.25mm	15	%	Round	Round
Lavout Setup		Network					
Layout = On (PageSize	= Auto)	IP Address	= 192.	168. 1. :	253		
LayoutMethod= Command Margin	= Normal	Subnet Mask	= 255.	255.255.	0		
CutLine = Off		Gateway	= 192.	168. 1. :	254		
LayoutTimer = 120sec		BiDir Port	= 1061	0			
Function		Utility					
Scale = 100.0% (Halftoning	= Speed)	MenuMask	= Alwa	y s O F F			
Mirror = Off (CMY->BLACK	= 0 n)	ErrorDisplay	= Off				
Rotation = 0°		PowerOnCleani	- 0//				

Setup List

3.5.2 NozzleCheck

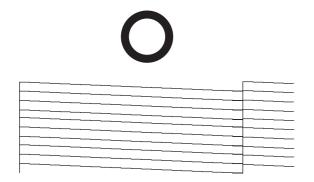
It is used for checking whether there is any clogging head, missing or blurred prints.

• If the nozzle check result indicates that the checked points are blurred or missing, clean the head. **T 5.2.3** Head cleaning

Perform the nozzle check once again at the end of the work.



Refer to the following for printing procedure.
 X 3.5 Test Print



						_						_
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-	_	_		_						<u> </u>		_
		_		_						<u> </u>		
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			-				_					
								 	_			

3.5.3 Palette Print

Palette printing is performed as a color demonstration.

TIP

• Refer to the following for printing procedure 【冒3.5 Test Print



3.5.4 Maintenance

It is used for checking the parts life of the printer.

- Parts life is expressed as number of ***** marks for each item (Maximum of five: denoting the residual life is 100%).
- As the parts life is getting nearer, the number of \star marks decreases one by one (20%).
- When all \star marks disappear, the parts life has ended. Replace parts referring to the followings.
 - Razor blade 【習 5.1.3 Replacing razor blade
 - Waste fluid box ズョブ5.1.4 Replacing waste fluid box
 - Other parts Contact MUTOH local dealer.
- Refer to the following for printing procedure.
 X3.5 Test Print

3.6 Connecting the printer to PC

The method of the printer connection to the PC is explained.

3.6.1 System requirements

The operation systems the printer driver for this printer is compatible with are as follows.

Operating system	Windows 10, Windows 8.1	

• The OS support period conforms to the Microsoft support lifecycle policies.

- The memory capacity varies depending on the application software or the print data type.
- We recommend to use hard disk and memory of size as large as possible.

3.6.2 Selecting cables

The printer is equipped with network interface and USB interface for connecting with the PC. Network interface cable and USB cable are required for connecting the PC with the printer. Prepare them for your PC depending on the objectives.

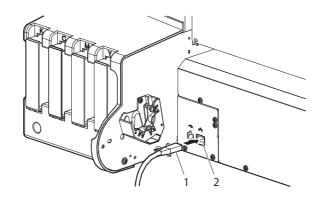


- For connecting network interface cable, refer to "3.6.3 Connecting network interface cable".
- For connecting USB cable, refer to "3.6.4 Connecting the USB cable".
- For the recommended cable specifications, refer to "7.2 Interface specification".

3.6.3 Connecting network interface cable

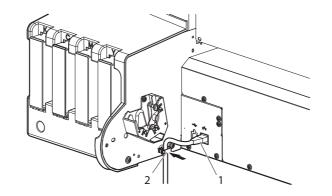
The procedure of network interface cable connection is explained. Connect the printer to your PC as shown in the following procedure.

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



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

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



No.	Name				
1	Network interface cable				
2	Cable clamp				

4. Connect the other network interface cable connector to your PC.



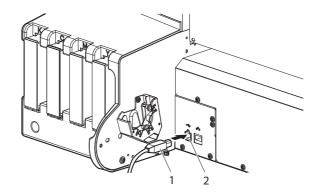
- Refer to the attached Operation Manual of your PC for the connection to your PC.
- For network setting on the side of the printer, refer to "4.5.2 Menu Setup Procedure".

3.6.4 Connecting the USB cable

The procedure of USB cable connection is explained. Connect the printer to your PC as shown in the following procedure.

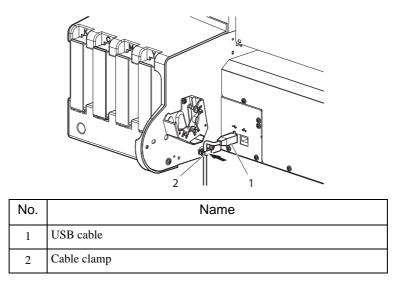


- Do not connect USB cable before installing the printer driver. It cannot be correctly installed.
- When printing using USB connection, do not change the USB port on the computer. If you have changed the USB port, you have to install the printer driver again
- 1. Insert the USB cable into the USB connector on the back of the printer.



No.	Name
1	USB cable
2	USB connector

2. Put the network interface cable to the cable clamp.



3. Connect the other USB cable connector to your PC.

TIP

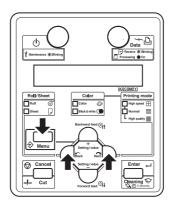
- Refer to the attached Operation Manual of your PC for the connection to your PC.
- This printer supports USB 2.0. If the connection is made in the following environments, the speed may decrease to the level measured in USB 1.1.
 - When your PC does not support USB 2.0
 - When a USB hub of non USB 2.0 type is used
 - When using the printer with USB connection, install the printer driver into your PC using the printer driver provided with the printer or specified by our company.

3.6.5 Setting IP Address

Make IP address settings on the printer side.

Follow the procedure below to set the IP address.

- Check that the printer is turned ON.
 Image: Solution of the power ON
- 2. Press the [Menu] key on Operation panel to change the display to the Setting menu.
 - "*Menu* Test Print>" is displayed on Operation panel.
- 3. Press the [<] key or [>] key on Operation panel to display the Network menu.



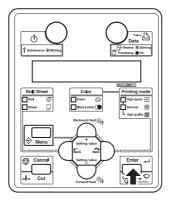
• "*Menu* Network>" is displayed on Operation panel.

TIP

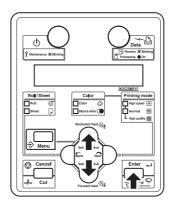
• For the key operation while the Setting menu is being displayed, refer to "4.5.2 Menu Setup Procedure".

- 4. Press the [Enter] key on Operation panel to display the IP address menu.
 - "Network: IP Address>" is displayed on Operation panel.

5. Press the [Enter] key on Operation panel to display the IP address setting menu.



- "192.168. 1.253" (default) is displayed on Operation panel.
- 6. Press the following keys on Operation panel to set the value.



- [+] key: increases the setting value.
- [-] key: decreases the setting value
- [Enter] key: changes the setting value for the next segment.
 - The settings are saved in the 4th segment, and the display returns to the previous menu.

- Be sure to set the IP address after consulting the network administrator.
- Allocate the IP addresses that do not overlap the computers or routers within LAN (Local Area Network).
- Allocate the same network address (usually the 3rd segment of IP address) as the computer that is connected to the printer.
- If you are using the printer in the network environment where IP addresses are automatically acquired, prepare an IP address for the printer outside of the address range for DHCP.

3.7 Installing / Unistalling Printer Driver

This section explains the outline and installing and uninstalling procedures of the driver provided with the printer.

3.7.1 Printer Driver

The operation systems the printer driver is compatible with are as follows.

- Windows 10
- Windows 8.1

The installing methods for the printer driver vary depending on how the printer is connected to the computer.

Follow the procedure below to install the driver.

- For network connection
 C 3.7.2 Installing the Printer Driver (for Network Connection)
- For USB connection
 X3 Installing the Printer Driver (for USB Connection)

- For the latest information about the plotter driver such as available functions and restrictions, see the following files, which is included in the downloaded .zip file.
 - Help
 - Readme file

You can download the latest printer driver from the MUTOH Club below.

https://club.mutoh.co.jp/mutoh/guser

3.7.2 Installing the Printer Driver (for Network Connection)

(1) Set the IP address

Before installing the printer driver, set the IP address to the printer.

• For the procedure to set IP addresses, refer to **3.6.5** Setting IP Address.

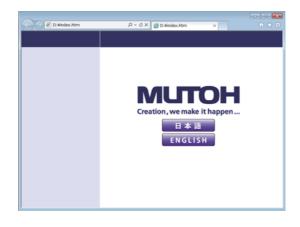
If you have already set the IP addresses, proceed to (2) Installing printer driver

(2) Installing printer driver

- Connect the printer to network first.
 Connecting network interface cable
- 2. Turn the printer ON.
- 3. Turn the computer ON.



- Install the printer driver with the user account that has the administrator authority.
- 4. Ensure that the computer has started normally and click on index.htm, which is included in the .zip file downloaded from MUTOH Club.
 - The browser starts.
- 5. Click the language you want to use.



• Go to the next screen.

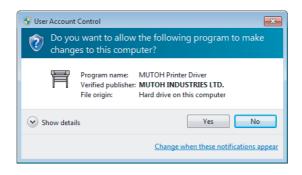
6. Click "Install Printer Driver".



7. If the confirmation message for executing the program is displayed, click "Run".



8. If the following message is displayed due to the setting for user account control, click "Yes".



- If you click "No", printer driver installation is cancelled.
 - Go to the next screen.

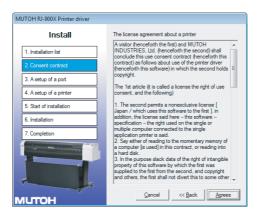
9. Select the printer model you want to use, and then click "Install".

RJ-900X Series Printer driver	RJ-900X Series Printer driver is set up. Please choose setup classification.
	RJ-901X
- Contraction of the local division of the l	[nstall
	Uninstall

- If you click "Cancel", printer driver installation is cancelled.
- 10. Select "Install the driver", and then click "Next".

MUTOH RJ-900X Printer driver	
Install	Please choose installation classification.
1. Installation list	Installation of a printer driver
2. Consent contract	A printer driver to do printing more than the application, and application are installed.
3. A setup of a port	The addition of a printer
4. A setup of a printer	A printer is added.
5. Start of installation	
6. Installation	The addition of a port
7. Completion	The port of the place of the printing is added.
митон	Cancel << Back Next >>

- 11. "Printer Driver License Agreement" is displayed.
 - a. When agreeing with the contents: Click "Agrees".
 - Go to the next screen.
 - b. When disagreeing with the contents: Click "Cancel".
 - Installing the printer driver is cancelled.



- Go to the next screen.
- 12. Click "Network".

MUTOH RJ-900X Printer driver	
Install	Please choose connection port classification.
1. Installation list	Network
2. Consent contract	USB
3. A setup of a port	
4. A setup of a printer	
5. Start of installation	
6. Installation	
7. Completion	
	Cancel << Back Next >>
митон	

- a. When installing the printer driver for the first time: Proceed to step 13.
- b. When you have installed the printer driver to the same computer before: Proceed to step 14.

- 13. Make settings for the following items, and then click "Set".
 - a. Port name: Enter an arbitrary name.
 - b. IP Address:
 Enter the IP address set for the printer.→Example: 192.168.1.1
 - NOTE
- For the IP address set for the printer, refer to "Network Setting Menu".
 X874.5.1.7 Network Menu

MUTOH Network P	ort Setting	9			×
Port Name	RJ-900X P	Port			
IP Address	192	. 168 .	. 104 .	128	
		ОК		Cancel	

- Proceed to step 15.
- 14. The output ports that were installed in the past are displayed on the output port list.
 - a. To use the output port that was installed in the past, select it from the output port list, and then click "OK".

election of a port		
Selection of an outp	outport	
Port	Descriptio	n
RJ-900X Port		letwork Port
SHRFAX:	Fax Monit	
XPSPort:	Local Port	t
Please choose the p	port where the prin	ter is connected.
-		L
Please choose the p	port where the prin	ter is connected.

• Proceed to step 15.

- b. To add a new port.
 - 1) Click "Add a port".

Selection of a port				
Selection of an output port				
Port	Descriptio	n		
RJ-900X Port	MUTOH N	letwork Port		
SHRFAX:	Fax Monit			
XPSPort:	Local Port	t		
Please choose the p	ort where the prin	ter is connected.		
Search	<u>A</u> dd Port	Configure Port		
	Cancel	ОК		

2) Select "MUTOH Network Port", and then click "New port".

Printer port	
Available port types:	
Local Port	
MUTOH Network Port Standard TCP/IP Port WSD Port	
1	New Port Close

- Proceed to step 13.
- 15. Set the printer name, and then click "Next".If you do not need to change the printer name, use the default name.

MUTOH RJ-900X Printer driver	
Install	A printer name is set
1. Installation list	
2. Consent contract	Printer Name MUTOH RJ-900X
3. A setup of a port	
4. A setup of a printer	
5. Start of installation	
6. Installation	
7. Completion	
митон	Cancel << Back Next >>

• Go to the next screen.

- Installation ist
 Installation ist started.

 1. Installation ist
 Installation of a printer driver

 2. Consent contract
 Installation

 3. A setup of a port
 Installation

 4. A setup of a printer
 Installation

 5. Start of installation
 Installation

 6. Installation
 Installation

 7. Completion
 Installation

 Installation
 Installation

 Completion
 Installation

 Installation
 Installation

 Completion
 Installation

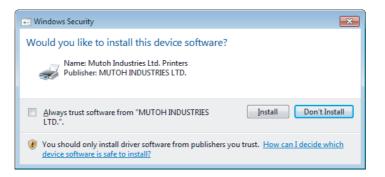
 Installation
 Installation

 Completion
 Installation

 Installation
 Installation

 Instere
 Installation
- 16. Check the displayed contents, and if there is no problem, click "Next".

- Installing the printer driver starts.
- 17. While installing the driver, Windows security warning may be displayed. If it is displayed, click "Install".



- Once the printer driver has been installed, the following screen is displayed.
- 18. Click "Finish".

MUTOH RJ-900X Printer driver	
Install	Installation was completed.
1. Installation list	
2. Consent contract	
3. A setup of a port	Thank you for installing the printer driver.
4. A setup of a printer	By registering on "ValueJet Club" you will be able to use various services.
5. Start of installation	VSM: Status Monitor VSM Mobile: Status Monitor for Smart Phone
6. Installation	Printer Info. Providing Service
7. Conpletion	Report Mail For more details, please visit our website below. https://mbos.mutoh.co.io/mutoh/buser/
митон	Cancel << Menu End

• This completes the printer driver installation.

NOTE

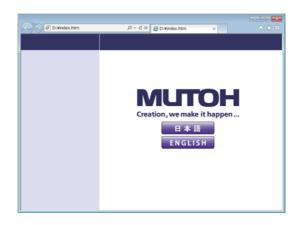
• If you click "Menu", the first screen of the installer is displayed.

3.7.3 Installing the Printer Driver (for USB Connection)

1. Turn the printer OFF.



- Do not connect the USB cable yet.
- If you have connected the USB cable first by mistake, check 6.1.1.1 If you have connected using the USB cable before installing the driver.
- 2. Turn the computer ON.
- 3. Ensure that the computer has started normally and click on index.htm, which is included in the .zip file downloaded from MUTOH Club.
 - The browser starts.
- 4. Click the language you want to use.



- Go to the next screen.
- 5. Click "Install the printer driver".



6. If the confirmation message for executing the program is displayed, click "Run".



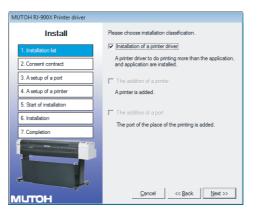
7. If the following message is displayed by setting the User Account Control, click "Yes".

😗 User Account Control 🔤			
Do you want to allow the following program to make changes to this computer?			
Program name: MUTOH Printer Driver Verified publisher: MUTOH INDUSTRIES LTD. File origin: Hard drive on this computer			
Show details			
Change when these notifications appear			

- If you click "No", printer driver installation is cancelled.
 - Go to the next screen.
- 8. Select the printer model you want to use, and then click "Install".



- If you click "Cancel", printer driver installation is cancelled.
- 9. Select "Installing driver", and then click "Next".



- Go to the next screen.
- 10. "Printer Driver License Agreement" is displayed.
 - a. When agreeing with the contents: Click "Agrees".
 - Go to the next screen.
 - b. When disagreeing with the content: Click "Cancel".
 - Installing the printer driver is cancelled.

MUTOH RJ-900X Printer driver	
Install	The license agreement about a printer
1. Installation list	A visitor (henceforth the first) and MUTOH INDUSTRIES, Ltd. (henceforth the second) shall
2. Consent contract	conclude this use consent contract (henceforth this contract) as follows about use of the printer driver (henceforth this software) in which the second holds
3. A setup of a port	copyright.
4. A setup of a printer	The 1st article (it is called a license the right of use consent, and the following)
5. Start of installation	 The second permits a nonexclusive license [Japan / which uses this software to the first]. in
6. Installation	addition, the license said here this software specification the right used on the single or
7. Completion	multiple computer connected to the single application printer is said. 2. Say either of reading to the momentary memory of
	a computer (is used) in this contract, or reading into a hard disk.
	3. In the purpose slack data of the right of intangible property of this software by which the first was supplied to the first from the second, and copyright and others, the first shall not divert this to some other -
митон	Cancel << Back Agrees

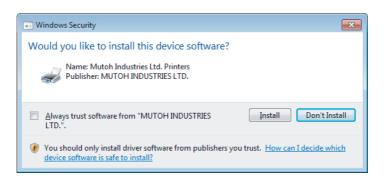
11. Click "USB".

MUTOH RJ-900X Printer driver			
Install	Please choos	e connection port classificatio	m.
1. Installation list		Network	
2. Consent contract		USB	
3. A setup of a port			I
4. A setup of a printer			
5. Start of installation			
6. Installation			
7. Completion			
митон		Cancel << Back	Next >>

- Go to the next screen.
- 12. Driver and port to be installed are displayed. Check the displayed content, and if there is no problem, click "Next".

MUTOH RJ-900X Printer driver	
Install	Installation is started.
1. Installation list	Add a printer Printer Model : MUTOH RJ-900X
2. Consent contract	Port : USB
3. A setup of a port	
4. A setup of a printer	
5. Start of installation	
6. Installation	
7. Completion	
митон	Cancel << Back Next >>

13. During installation, if the Windows security warning is displayed, click "Install".



- 14. Installer is in the standby status for USB connection.
 - a. Wait until the standby dialog is displayed.
 - b. Turn the printer ON.

c. Connect the printer and computer with a USB cable.

Connect printer	
Connect a USB cab turn on the printe	ole to the printer and the computer after r.
	[Connect later]

- If you have connected the USB cable first by mistake, check "6.1.1.1 If you have connected using the USB cable before installing the driver".
- If the printer has not been fully prepared, click "Connect later".
 - Installing the printer driver starts.
 - Once the driver has been installed to Windows, the USB connection dialog automatically closes.



15. Click "End".

MUTOH RJ-900X Printer driver	
Install	Installation was completed.
1. Installation list	
2. Consent contract	
3. A setup of a port	Thank you for installing the printer driver.
4. A setup of a printer	By registering on "ValueJet Club" you will be able to use various services.
5. Start of installation	VSM: Status Monitor
6. Installation	VSM Mobile: Status Monitor for Smart Phone Printer Info. Providing Service
7. Completion	Report Mail For more details, please visit our website below.
and the second s	https://mbss.mutoh.co.jp/mutoh/quser/
митон	⊇ancel << Menu End

• This completes the printer driver installation.

- If you click "Menu", the first screen of the installer is displayed.
- If the printer was not connected during installation, connect it after this.

3.7.4 Uninstalling the Software

NOTE

- When you uninstall the software, the printer driver is removed. If you want to print after uninstalling the printer driver, install it again.
- 1. Turn the computer ON.
- 2. Before uninstalling the software, save the current print settings.
 - a. Start the printer driver.
 - b. On the "Option" tab of the printer setting, click "Save the setting parameters", and then create a setting file.

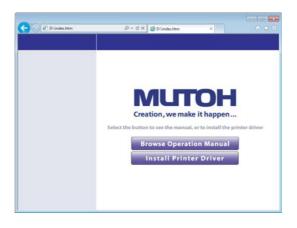


- Saved print settings are useful when upgrading the printer driver or changing the computer.
- 3. Click on index.htm, which is included in the .zip file downloaded from MUTOH Club.
 - The browser starts.

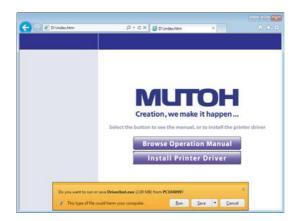
4. Click the language you want to use.



5. Click "Install the printer driver".



6. If the confirmation message for executing the program is displayed, click "Run".



7. If the following message is displayed due to the setting for user account control, click "Yes".

😗 User	Account	Control			×
2	Do you want to allow the following program to make changes to this computer?				
	Ħ	Program name: Verified publisher: File origin:		STRIES LTD.	
Sł	now detail	s		Yes	No
			<u>Change wl</u>	hen these notif	fications appear

NOTE

- If you click "No", printer driver installation is cancelled.
 - Go to the next screen.
- 8. Click "Uninstall".



• If you click "Cancel", uninstalling the software is cancelled.



• Go to the next screen.

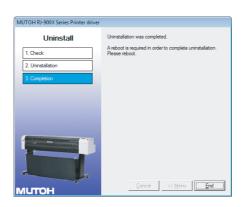
9. Check the precautions before uninstallation, and then click "Next".



• Uninstallation starts.

MUTOH RJ-900X Series Printer driver	
Uninstall	It is under uninstallation. Please wait for a while.
1. Check	
2. Uninstallation	
3. Completion	
	Under uninstallation of a printer driver
-	
митон	Cancel << Back Nest >>

- The next screen is displayed.
- 10. Click "End".



• This completes the printer driver installation.



• The printer driver is completely deleted from the system after Windows is restarted. When upgrading the printer driver, make sure to restart Windows.

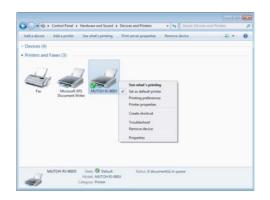
3.7.5 Changing the Rated Value of Print Settings

You can set the settings that you use often as the default print setting for application software.

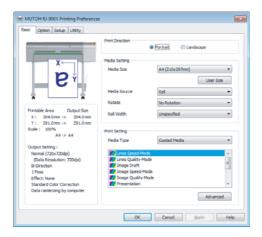
1. From the category of "Control Panel", select "Display devices and printers".

		head of the
OG.	Control Panel +	49 Search Curtral Ford P
	Adjust your computer's settings	View by: Category +
	System and Security Review your computer's status Back up your computer Find and the positives	User Accounts and Family Safety Stall or remove use accounts to up period a controls for any user
	Network and Internet View retwork instance and tarks Choose homegroup and sharing options	Appearance and Personalization Change the theme Change desitop background Adjust screen resolution
	Hardware and Sound View device and printers Add a device	Clock, Language, and Region Change incloands or other input methods Change deplay language
	Programs Unimital a program	Ease of Access Let Windows support settings Contensor visual deplay
TIP		
If displayed with icons, select "Devic	es and Printers".	

2. Right-click the icon of the printer for which you want to change the rated value, and then click "Printer setting".



3. Change the settings as required, and then click "OK".



3.7.6 Prioritized Driver Settings

The printer driver can temporarily change the printer setting for printing. Be aware that the settings determined in the printer are not effective for many functions and that the settings determined in the printer driver are always prioritized over the printer settings.

For the functions whose settings can be changed on the printer driver, see the following list.

Panel Menu	Driver settings	Default settings	Note
Color	Color mode	Always prioritize the driver	[Basic settings] - [Advanced settings]
Print Mode	Print quality	Always prioritize the driver	[Basic settings] - [Advanced settings]
Print quality	Overlap	Always prioritize the driver	[Basic settings] - [Advanced settings]
Print resolution	Print Mode	Always prioritize the driver	[Basic settings] - [Advanced settings]
Direction	Prtint Dscharge direction	Always prioritize the driver	[Basic settings] - [Advanced settings]
Effect	Effect	Always prioritize the driver	[Basic settings] - [Advanced settings]
Ink amount	Printer density adjustment	Always prioritize the driver	[Basic settings] - [Advanced settings]
Ink drying time	Ink drying time	Prioritize the printer	[Basic settings] - [Advanced settings]
Tip feeding	Media tip feeding	Always prioritize the driver	[Option]
Command	Output method (color correction)	Always prioritize the driver	[Basic settings] - [Advanced settings]
Origin		Always prioritize the driver	-
Print unit	-	Always prioritize the driver	-
Terminator	-	Always prioritize the driver	-
Image resolution	-	Always prioritize the driver	-
Overwriting	-	Always prioritize the driver	-
Line type	Line type	Always prioritize the driver	[Basic settings] - [Advanced settings]
Layout	-	Depending on the setting	When the computer memory is set the driver is prioritized
Layout method	-	Depending on the setting	When the computer memory is set the driver is prioritized

Panel Menu	Driver settings	Default settings	Note
Margin decision	-	Depending on the setting	When the computer memory is set the driver is prioritized
Scales	Scales	Always prioritize the driver	[Option]
Mirror	Mirror	Always prioritize the driver	[Option]
Rotate	Print Direction	Always prioritize the driver	[Basic settings]
Pen settings	-	Always prioritize the driver	-



• The functions that can be set on the printer driver may vary depending on the printer driver models and versions.

3.7.7 Creating LPR Port

To print using the LPR port, follow the procedure below to add an LPR port.

1. Windows 10

Click [Start], [All Apps], then [Windows System]. In the screen that appears, click [Control Panel].

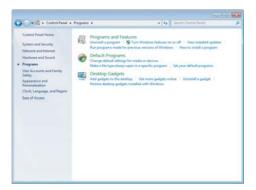
Windows 8.1

Display the charm bar on Desktop, and click [Settings]. Click [Control Panel].

- "Control Panel" is displayed.
- 2. Select "Programs".

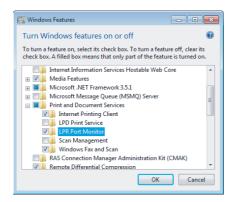


- "Programs" is displayed.
- 3. Select "Activate or deactivate Windows functions".



• "Windows Features" is displayed.

4. Check "LPR Port Monitor" in "Print and Document Service", and then click "OK".



5. Set the LPR port as follows.

Server name or IP address that provides LPD

• Enter the IP address that is allocated to the printer.

Printer name or print queue of the server

• "MLP1" in single-byte uppercase alphanumeric letters

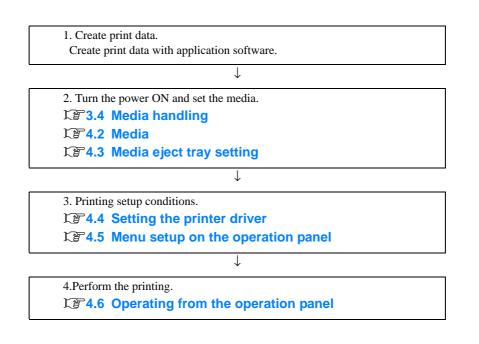
Add LPR compatible printer		X
Name or address of server providing lpd:	192.168.104.128	OK
Name of printer or print queue on that server:	MLP1	Cancel

4 Handling the printer

This chapter explains how to handle the printer.

4.1 **Print flow chart**

The necessary procedure for printing with the printer is shown in the following flow chart. Refer to each section if necessary.



NOTE

• Do not open the front cover during printing. If the front cover is opened, printing will be interrupted. When the front cover is closed, the printer restarts printing, but high printing quality is not assured.

4.2 Media

The details of available media for the printer are described.

4.2.1 Media

The type and quality of media greatly influence the print result. Use media that matches the application, taking the following information into account.

Various dedicated media are prepared for this printer as follows. Select the appropriate media according to the usage.

- Monochrome tracing paper
- Monochrome erasable tracing paper
- Matte film
- Coated paper
- Recycled paper
- Plain paper
- Check paper
- Glossy paper



- If failures or malfunctions of the printer occur by using media that is not dedicated media.
 - The printer will not be covered by the warranty and repair expenses will be paid by the customer.
 - For details, refer to the following manuals.

```
T 5 Maintenance
```

```
Troubleshooting
```

If repair is requested, contact MUTOH local dealer.

TIP

- When dedicated media is used, the setting of printing quality is set according to each media type. For the settings, refer to "7.1.2 Printing operation specifications".
- When printing on media that is not dedicated one,
 - Refer to the media manual or ask the place of purchase of media for the information on the media type or appropriate settings for this printer.
 - Set the printing quality according to "4.5.1.2 MediaSet Menu".

4.2.2 Cautions on handling media

Note the following points when handling the media.

NOTE

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

	Temperature	Humidity
Guaranteed range of printing accuracy	15 [°] C∼28 [°] C	40% - 60%
Change rate	within 2° C	within5% per hour

- Do not use media which is folded, cut, or torn.
- The size of media can change at a constant rate according to the change of humidity in the printing environment. Before using media, leave media for 30 minutes in the printing environment to adapt it to the environment.
- Performing printing without adapting media to the printing environment, media jams may occur due to gaps or wrinkles in the media. Printing quality is also affected.
- Media has a print side and a non-print side. Printing on the non-print side can cause blurs and blots.
- Do not touch the print side. Moisture and oil on your hands may affect the printing quality.
- Do not leave media for a long time with media set. Some media has a tendency to roll which may cause media to float, media jams, and degradation of printing quality. Avoid using such media especially in winter, dryness and when printing formal documents.
- Do not lose the individual box and bag. Use them for storing media.

4.2.3 **Precaution on storing media**

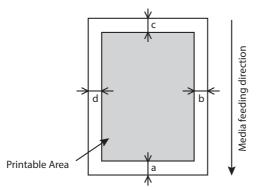
Note the following points on storing media.

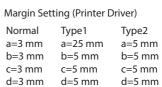
- Avoid high temperature, high humidity, and direct sunlight to store media.
- Put the opened sheet media back into the bag and store it in a flat position.
- After removing the unused roll media from the scroller, wind it properly. Then wrap it with an individual bag and store it in an individual box.
- Keep the media dry.

4.2.4 **Printing area**

The printable area of this printer is as follows.

(1)Roll media





Type1

a=5 mm

b=5 mm

c=25 mm

d=5 mm

Type2

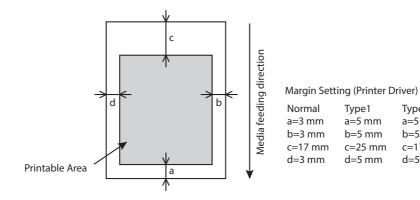
a=5 mm

b=5 mm

c=17 mm

d=5 mm

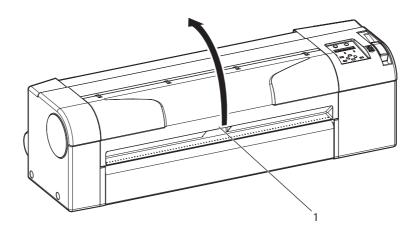
(2) Sheet media



4.2.5 Head height adjustment

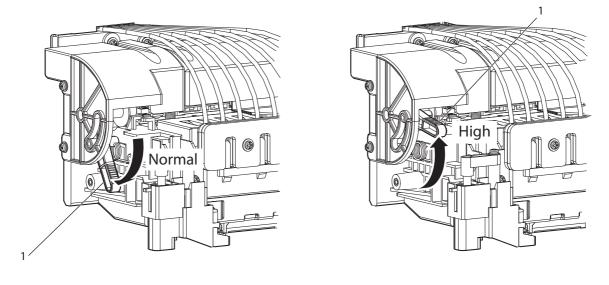
Printing with high printing rate or using strongly-curved media can cause a head rub. Changing the head height may allow you to avoid the head rub. Follow the procedure below to change the head height.

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



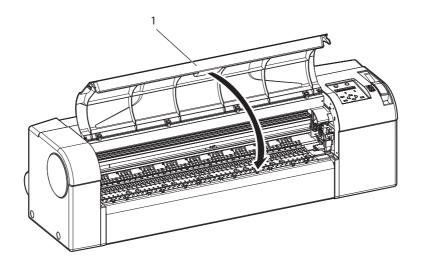
No.	Name
1	Front cover

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



No.	Name
1	Head height adjustment lever

3. Close the front cover.

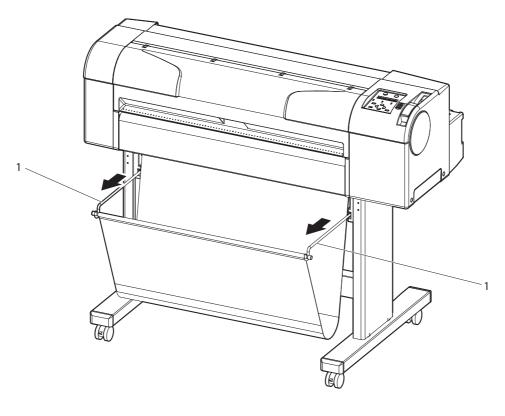


No.	Name
1	Front cover

4.3 Media eject tray setting

The setting procedure of media eject tray (optional) is described. The media eject tray supplied with the dedicated stand can be used to eject media smoothly by preventing the printed media from spotting or folding.

1. Pull out the tray hook as far as possible.



No.	Name
1	Tray hook

4.4 Setting the printer driver

The setup procedure of printer driver is described.

4.4.1 **Printer driver setup procedure**

To print and output the print data created with Windows application software to the printer, the printer driver must be set according to the printing conditions. Set each item according to the following procedure.

1. Selecting the printer driver.

2. Setting the printer driver.



• For the setup procedure of the printer driver, refer to the attached help file. The file will be displayed by clicking [HELP] on the printer driver setup screen.

4.4.2 **Printer driver setup items**

The printer driver setup items are described.

Setup item	Description
Basic setup	Set up the basic setup of printing and check the setup list. 137 4.4.2.1 Basic Setup Menu
Advanced setup	Set up the advanced setting of printing conditions and check the setup list. 137 4.4.2.2 Advanced Setup Menu
Options	Set the optional functions of printing and check the settings. I 3 4.4.2.3 Option Menu
Setup	Recalls, saves, and initializes the settings. I 27 4.4.2.4 Environment Setting Menu
Utilities	Perform cleaning and nozzle check. 17 4.4.2.5 Utility Menu

4.4.2.1 Basic Setup Menu

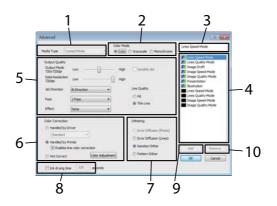
You can make basic settings for printing and check the settings.



No.	Name	Description
1	Image	Displays the output image to the printer.
2	Setting information display box	Displays the information set for each item.
3	Printing direction setting	You can make settings for the printing direction.
4	Media setting	 Make the following media settings. Media Size Media Source Rotate Roll Width
5	Print Setting	Set the printing conditions. If you click "Detailed setting", the display shifts to Detailed setting menu. C할 4.4.2.2 Advanced Setup Menu

4.4.2.2 Advanced Setup Menu

You can make the detailed settings about printing conditions as well as check the setting contents.



No.	Name	Description
1	Media type	Displays the media type currently set.
2	Color mode	You can make settings for the color mode.
3	Printing condition name	Displays the printing condition name. You can enter a new printing condition name.
4	Printing condition list	Displays the default printing condition list. If you save the data with a new printing condition name, the new printing condition is added to the list.
5	Print quality	You can make settings for the printing quality.
6	Color correction	You can make settings for the color correction. Click "Color adjustment" to make detailed settings.
7	Gradation processing	You can make settings for the gradation processing.
8	Ink drying time	You can make settings for the ink drying time.
9	Backup	Saves the changed printing condition. The default printing condition name cannot be overwritten and saved.
10	Delete	Deletes the printing condition from the list. The default printing condition cannot be deleted.

4.4.2.3 Option Menu

Set the optional functions of printing and check the settings.



No.	Name	Description
1	Scale	You can make settings for the Scale function.
2	Margin	You can make settings for the margins.
3	Media top feed	Make settings for the media tip feeding function. You can set between 1 mm and 100 mm.
4	Auto Connection	Make settings for the joined printing function.
5	Mirror	Make settings for the mirror function.
6	Copy count	Set the number of copies.
7	Data rasterizing by computer	Make the settings for eliminating the memory shortage.
8	16-bit compatible	Make settings for the 16-bit compatibility function.
9	On-the-fly printing	Make settings for the on-the-fly printing function. When this is set, the data that is processed in the driver is immediately sent to the printer. Depending on the PC performance or data, Print head may stop during printing, or a timeout error may occur and prevent printing.

4.4.2.4 Environment Setting Menu

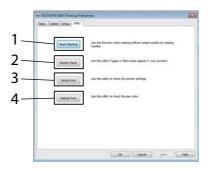
Calls up, saves, and initializes the settings.



No.	Name	Description
1	Load	Calls up all settings from the specified file (*.MTP).
2	Save	Saves the current settings as a file (*.MTP).
3	Version	Displays the version information and copyright.
4	Initialize	Initializes the settings in the Basic settings and Option tabs.

4.4.2.5 Utility Menu

Performs cleaning and nozzle check.



No.	Name	Description	
1	Head Cleaning	Performs head cleaning.	
2	Nozzle Check	Performs nozzle check printing.	
3	Setup Print	Setup list printing is performed. IP 3.5.1 Setup Print	
4	Palette Print	Performs color palette printing.	

4.5 Menu setup on the operation panel

4.5.1 Setup menu items

The setup menu of the printeris described. The setup menu has the following items.

Setup item	Description
Testprint Menu	Test print can be performed.
MediaSet Menu	Various settings on printing media can be set.
Command Menu	Various condition setup of printer command is performed.
PenSetup Menu	Various settings on the pen used for printing can be set.
Layout Menu	Various settings on the layout function can be set.
Function Menu	Various settings on the process of print data can be set.
Network Menu	Various settings on the network interface can be set.
Utility Menu	Various settings on the advanced function of the printer can be set.
Consumption Menu	Use status display menu Remaining ink quantity and life span of cutter can be displayed.
Cleaning menu	Performs head cleaning.

NOTE

- When the menu display item of Utility Menu is set to Normal, the following menu will not be displayed.
 - Command Menu
 - PenSetup Menu
 - Function Menu
 - BiDir Port item of Network Menu
 - Initialization menu of utility menu

TIP

• <> parts in each list are factory default settings (initial values).

4.5.1.1 TestPrint Menu

Setup item	Description	
Setup	Setup list printing is performed. X 3.5.1 Setup Print	
NozzleCheck	Nozzle check is performed. I B 3.5.2 NozzleCheck	
Palette	Palette printing is performed.	
Maintenance	Maintenance status printing is performed.	

Test printing of each item can be performed.

4.5.1.2 MediaSet Menu

Various settings on printing media can be set.

- If media that is not dedicated one (user media) is used, the following problems may occur.
 - Media detection error
 - Slant, snag and wrinkle of media
 - Media jams
 - Favorable printing quality cannot be obtained due to blots, blurs and dirt of ink.
 - End detection of roll media cannot be performed, etc. The problems caused by the use of user media will not be covered by the warranty and repair expenses will be paid by the customer.

Setup item	Setting value	Description
Media	MonoTrac Col.Trac Plain <coat> Film Photo User1 User2 User3 User4</coat>	 Set the type of dedicated media for use. Go to the next item. Image: 4.5.1.2.1 When dedicated media is set in Media item If media that is not dedicated one is used, use "User1" to "User4". Go to the next item. Image: 4.5.1.2.2 When "User1" to "User4" is set in Media item
CutSheetSize	Auto Auto <vert.> Hori.</vert.>	 Set a detection method of media size to set sheet media. Auto: Size of length and breadth of sheet media are detected automatically. Auto 2: Set this mode when the Auto mode fails to detect the media size. Vert.: Set when fixed form sheet media are set vertically. Hori.: Set when fixed form sheet media are set horizontally. TIP If you are using a cut sheet media other than the dedicated ones, set either Auto or Auto 2. This printer can set the following fixed-form size sheet media RJ-901X ISO series (A1, A2, A3, A4) JIS series (B2, B3, B4, B5) ARCH series (A, B, C, D) RJ-900X ISO series (A0, A1, A2, A3, A4) JIS series (B0, B1, B2, B3, B4, B5) ARCH series (A, B, C, D, E)
MediaCheck	<on> Off</on>	 Sets whether to detect the media before printing. ON: Media detection is performed. OFF: Media detection is not performed. Press the [Enter] key and set the media width for printing. RJ-901X: 150 mm to <594 mm> to 610 mm RJ-900X: 150 mm to <841 mm> to 1,143 mm TIP To change the media width, use the [+] and [-] keys. Press the [Enter] key to confirm.

Setup item	Setting value	Description
TopFeed	<0 mm> to 100 mm	At the beginning of printing, media feed is performed. Set for printing on roll media. NOTE • When Top Feed is set to 0 mm, media margin is 3 mm.
ManageRoll	<invalid></invalid>	Management of remaining quantity of roll media is not performed.
	Roll1	
	Roll2	Remaining quantity of roll media is set.
	Roll3	It can be set within the range of 0 m to 99 m. Four types each can be set as "Roll1" to "Roll4".
	Roll4	
Cut RollTop	<0 mm> to 500 mm	At media initialization, media is cut by the set length.

4.5.1.2.1 When dedicated media is set in Media item



• When dedicated media is used, the setting of printing quality is set according to each media type. For the settings, refer to "**7.1.2 Printing operation specifications**".

Setup item	Setting value	Description
Effect	<none></none>	The Effect function is not used.
	Wave	The printing joint will be the wave form. The print quality may improve compared to "None".
	Fog	The printing joint will shade off. Set up this menu when obvious white lines or uneven print density appear on printed media in "Wave". This is a mode suitable for low resolution.
	Fine&Fuzz	The printing joint will shade off as the wave form. Performs the printing at slower speed than "Wave".
	Fine&Fog	The printing joint will shade off. Set this when there is horizontal unevenness in "Fine&Fuzz". Prints at a slower speed than "Fine&Fuzz".
	A-S. Fine&Wave	Performs "Wave" printing using the half of the print head nozzles. Since only the half of the print head nozzles are used, printing speed becomes a half of "Wave". Set up this menu to improve the print quality compared with "Fine&Fuzz". If used when one side of the nozzles is clogged, quality deterioration may be avoided.
	B-S. Fine&Wave	Performs "Wave" printing using the half of the print head nozzles on the opposite side of "A- S.Fine&Wave". Since only half of the print head nozzles are used, printing speed becomes a half of "Wave". Set up this menu to improve the print quality compared with "Fine&Fuzz". If used when one side of the nozzles is clogged, quality deterioration may be avoided.
RollCut	<on> Off</on>	 Sets whether to cut the media after printing. ON: Automatically cuts the media after printing. OFF: The media is not cut after printing.
CutMethod	<2steps -Lo>*1	Sets the media cut method when using the roll media.
	<2steps -Hi>*1	 2steps: Cuts the media twice. Hi/Lo: Changes the strength of cutting the media.
	3steps -Lo 3steps -Hi	 3steps: Cuts the media three times. Hi/Lo: Changes the strength of cutting the media.
	35005 -111	*1:Default values differ depending on the media.Glossy paper: 2steps -HiOther media: 2steps -Lo

Setup item	Setting value	Description
PF	Initial Print	Based on the printed adjustment patterns, enter the
	Initial Change	length and measured distance of the data as the set values.
	Confirm Print	হৈ 4.5.1.2.3 Media Feed Compensation Menu
Micro Print		
	Micro Change	
AdjustPrint	Pattern A	Performs accuracy adjustment printing or adjusted value initialization.
	Pattern B	T [™] 4.5.1.2.4 Adjust Print
	Pattern C	
	Initial	

4.5.1.2.2 When "User1" to "User4" is set in Media item

Setup item	Setting value	Description
Condition	<lines></lines>	The printing quality is set according to the content of
	Photo	 print data. Lines: Printing is performed with proper quality for line drawings. Photo: Printing is performed with proper quality for images.
PrintReso.	HS360dpi / 360dpi / <720dpi> / 1440dpi / 2880dpi	Set the resolution of the printing data.
Direction	UniDir	Set the operation direction of head during printing.
	<bidir></bidir>	 UniDir: Printed in only one-way direction. BiDir: Printed in two-way direction.
Effect	<none></none>	The Effect function is not used.
	Wave	The printing joint will be the wave form. The print quality may improve compared to "None".
	Fog	The printing joint will shade off. Set up this menu when obvious white lines or uneven print density appear on printed media in "Wave". This is a mode suitable for low resolution.
	Fine&Fuzz	The printing joint will shade off as the wave form. Performs the printing at slower speed than "Wave".
	Fine&Fog	The printing joint will shade off. Set this when there is horizontal unevenness in "Fine&Fuzz". Prints at a slower speed than "Fine&Fuzz".
	A-S. Fine&Wave	Performs "Wave" printing using the half of the print head nozzles. Since only the half of the print head nozzles are used, printing speed becomes a half of "Wave". Set up this menu to improve the print quality compared with "Fine&Fuzz". If used when one side of the nozzles is clogged, quality deterioration may be avoided.
	B-S. Fine&Wave	Performs "Wave" printing using the half of the print head nozzles on the opposite side of "A- S.Fine&Wave". Since only half of the print head nozzles are used, printing speed becomes a half of "Wave". Set up this menu to improve the print quality compared with "Fine&Fuzz". If used when one side of the nozzles is clogged, quality deterioration may be avoided.
ThinOut (Black)	5% to <100%>	The discharge of black ink during printing is adjusted to the media quality.
ThinOut (Color)	5% to <100%>	The discharge of color ink during printing is adjusted to the media quality.

Setup item	Setting value	Description
Stiffness	<normal> Soft SuperSoft Frame</normal>	 Depending on the stiffness of media, the power to absorb media to the printing board is set. Normal: Set when general media is used. Soft: Set when soft media is used and it fails to feed media during printing and there is likely to be media jams. SuperSoft: Set when softer media is used and there is likely to be media jams in "Soft" setting. Frame: Set when media which has a frame for reinforcement is used.
InkDryTimer	<0 s> to 270 s to 60 m	The discharge of color ink during printing is adjusted to the media quality.
RollCut	<on> Off</on>	 Sets whether to cut the media after printing. ON: Automatically cuts the media after printing. OFF: The media is not cut after printing.
CutMethod	<2steps -Lo>*1 <2steps -Hi>*1 3steps -Lo 3steps -Hi	 Sets the media cut method when using the roll media. 2steps: Cuts the media twice. Hi/Lo: Changes the strength of cutting the media. 3steps: Cuts the media three times. Hi/Lo: Changes the strength of cutting the media. *1:Default values differ depending on the media. Glossy paper: 2steps -Hi Other media: 2steps -Lo
PF	Initial Print Initial Change Confirm Print Micro Print Micro Change	Based on the printed adjustment patterns, enter the length and measured distance of the data as the set values. 〔蒼 4.5.1.2.3 Media Feed Compensation Menu
AdjustPrint	Pattern A Pattern B Pattern C Initial	Performs accuracy adjustment printing or adjusted value initialization. 文育 4.5.1.2.4 Adjust Print 文育 4.5.1.2.5 Initializing Adjust Print

4.5.1.2.3 Media Feed Compensation Menu

This section describes media feeding.

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

- Printed images overlap.
- White lines are printed over images, etc.

The following method may improve these problems.

- 1. Display the Media feed compensation menu on Operation panel.
 - a. Press the [Menu] key on Operation panel.
 - "*Menu* TestPrint" is displayed on Operation panel.
 - Operation panel shifts to the Setup menu display.
 - b. Press the [>] key on Operation panel.
 - "*Menu* Media Set>" is displayed on Operation panel.
 - c. Press the [Enter] key on Operation panel.
 - "Type: Coated Media" is displayed on Operation panel.
 - d. Press the [+] key or [-] key on Operation panel to select the media type to use.
 - e. Press the [Enter] key on Operation panel.
 - "Effect: None" is displayed on Operation panel.

- When using user media 1 to 4, "Condition: Lines" is displayed on Operation panel.
 - f. Press the [>] key a few times on Operation panel and select "PF Adjust: Initial Print>".
 - Proceed to Media feed compensation menu.
 【〒4.5.1.2.1 When dedicated media is set in Media item
 【〒4.5.1.2.2 When "User1" to "User4" is set in Media item

- 2. Performs Initial Adjust Print.
 - a. Press the [Enter] key on Operation panel.
 - "Feed Length: 250 mm" is displayed on Operation panel.



- The length of media that is fed (feeding length) for initial adjustment printing is normally set at 250 mm.
- If you increase the feeding length, the accuracy of the Media feed compensation improves. To change the feeding length, press the [+] key or [-] key on Operation panel to change the set value.
 - b. Press the [Enter] key on Operation panel.
 - "Printing" is displayed on Operation panel.
 - Starts initial adjustment printing.



No.	Name
1	Feeding length
2	Media feeding direction

- When the initial adjustment printing is complete, the printer enters the Normal condition.
- c. After the initial adjustment printing, cut the media. **C**會**4.6.3 Cut media**
- 3. Measure the distance between the two pluses (+) in the initial adjustment print using a ruler.

- 4. Set up Initial Adjust Change.
 - a. Display the Media compensation menu on Operation panel in the same way as in Step 1.
 - b. Press the [+] key or [-] key on Operation panel to select "PF Adjust: Initial Change".
 - c. Press the [Enter] key on Operation panel.
 - "Init.: 250.0/250 mm" is displayed on Operation panel.
 - d. Press the [+] key or [-] key on Operation panel and enter the measured value in step 3.
 - e. Press the [Enter] key on Operation panel.
 - The initial adjustment value is saved.
 - "PF Adjust: Initial Change" is displayed on Operation panel.
- 5. Performs Confirm Print.
 - a. Press the [+] key or [-] key on Operation panel to select "PF Adjust: Confirm Print".
 - b. Press the [Enter] key on Operation panel.
 - "Feed Length: 250 mm" is displayed on Operation panel.

TIP

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

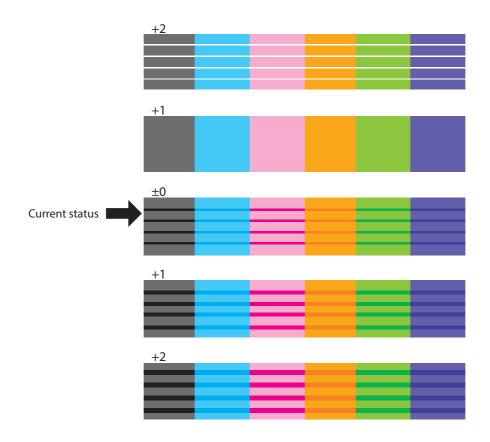
- c. Press the [Enter] key on Operation panel.
 - "Printing" is displayed on Operation panel.
 - Starts confirmation adjustment printing.



No.	Name
1	Feeding length
2	Media feed direction

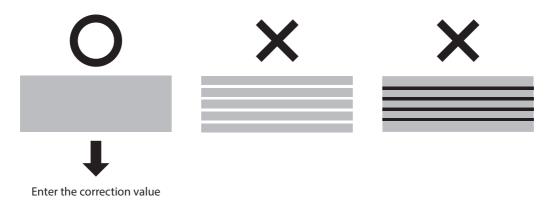
- When the Confirm Print is complete, the printer enters the Normal condition.
- d. After the confirmation adjustment printing, the media is cut.
 128 4.6.3 Cut media
- 6. Measure the distance between the two pluses in the confirmation adjustment print using a ruler. Then, confirm that the distance matches the feeding length when printing.
 - a. If the distance does not match the feeding length, follow the procedure from Steps 1 to 5 to readjust.
 - b. If the distance matches the feeding length, proceed to step 7.

- 7. Performs Micro Adjustment Print.
 - a. Display the Media compensation menu on Operation panel in the same way as in Step 1.
 - b. Press the [+] key or [-] key on Operation panel to select "PF Adjust: Micro Print".
 - c. Press the [Enter] key on Operation panel.
 - "Printing" is displayed on Operation panel.
 - Starts micro adjustment printing.



• After micro adjustment printing is completed, "PF Adjust: Micro Print" is displayed on Operation panel.

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



- 9. Sets up Micro Adjustment Change.
 - a. Press the [+] key or [-] key on Operation panel to select "PF Adjust: Micro Change".
 - b. Press the [Enter] key on Operation panel.
 - "Micro: 0 pulse" is displayed on Operation panel.
 - c. Press the [+] key or [-] key on Operation panel and enter the micro adjustment value according to the printing result in Step 7.
 The optimum adjusted value has the least white lines or overlapping images. Use the number on the top left of the printing result as the adjusted value.± 0 indicates the current status. For the illustration in the step 7, +1 is the optimum adjusted value.
 - d. Press the [Enter] key on Operation panel.
 - The micro adjustment value is saved.
 - "PF5: Micro Change is displayed on Operation panel.
- 10. Press the [Menu] key on Operation panel.
 - Operation panel returns to the Normal condition.
 - This completes the media feed compensation value adjustment.

4.5.1.2.4 Adjust Print

Adjusts to optimize print quality.

Required adjust pattern varies depending on the media type setting, color setting, and print mode.

- When using various media settings or customizing the print settings in the printer driver and so on: Print all adjust patterns A to C.
- When using the same media setting: Refer to the chart below and print a necessary adjust pattern.

Media type setting	Color setting	Print Mode	Pattern A	Pattern B	Pattern C
MonoTrac.	Common to	High speed	-	-	0
	monochrome and color	Standard	-	0	-
		High quality	0	-	-
Col.Trac	Common to monochrome	High speed	-	0	-
	and color	Standard	0	-	-
		High quality	0	-	-
Plain	Common to monochrome	High speed	-	-	0
	and color	Standard	-	0	-
		High quality	0	-	-
Coat	Common to monochrome and color	High speed	-	0	-
		Standard	0	-	-
		High quality	0	-	-
Film	Monochrome	Common to High speed/ Standard/High quality	0	-	-
	Color	High speed	-	0	-
		Standard	0	-	-
		High quality	0	-	-
Photo	Common to monochrome and color	Common to High speed/ Standard/High quality	0	-	-
User media 1 to 4	-	-	Ref	er to the following c	chart

• Adjust patterns corresponding to the user media 1 to 4.

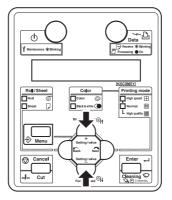
Print resolution setting	Pattern A	Pattern B	Pattern C
HS360dpi	-	-	0
360dpi	-	0	-
720dpi	0	-	-
1440dpi	0	-	-
2880dpi	0	-	-

Follow the procedure below to adjust print quality.

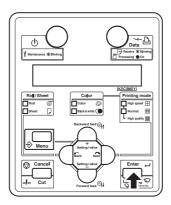
- Turn the printer ON and set the media that is bigger than A3 size.
 Image: Image:
- 2. Display the Micro adjustment menu on Operation panel.
 - a. Press the [Menu] key on Operation panel.
 - "*Menu* Test Print>" is displayed on Operation panel.
 - Operation panel shifts to the Setup menu display.
 - b. Press the [>] key on Operation panel.
 - "*Menu* Media Set>" is displayed on Operation panel.
 - c. Press the [Enter] key on Operation panel.
 - "Type: Coated Media" is displayed on Operation panel.
 - d. Press the [+] key or [-] key on Operation panel to select the media type to use.
 - e. Press the [Enter] key on Operation panel.
 - "Effect: None" is displayed on Operation panel.

- When using user media 1 to 4, "Print Quality: Drawing" is displayed on Operation panel.
 - f. Press the [>] key a few times on Operation panel and select "PF Adjust: Pattern A".
 - The display enters the Micro adjustment menu.

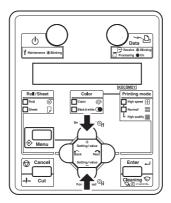
3. Press the [+] key or [-] key on Operation panel to select one of the following items for printing.



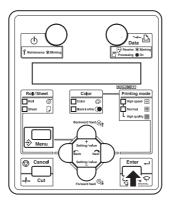
- Pattern A: Prints Adjust pattern A.
- Pattern B: Prints Adjust pattern B.
- Pattern C: Prints Adjust pattern C.
- Initialization: Initializes the adjusted value for the selected item.
 128 4.5.1.2.5 Initializing Adjust Print
- 4. Press the [Enter] key on Operation panel.



- "Head Height: Low" is displayed on Operation panel.
- 5. Press the [+] key or [-] key on Operation panel to select the head height from "Low" or "High".



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



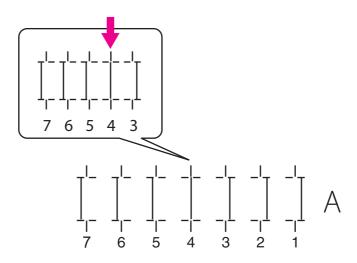
• Start printing the selected adjust pattern.

NOTE

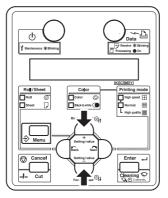
• If the selected head height differs from the actual height, a message to change the head height is displayed.Printing starts after the head height has been changed.

13 4.2.5 Head height adjustment

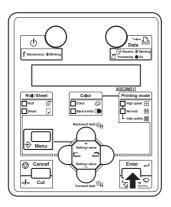
7. Check the print results on both sides and center of the media and select the number that looks most aligned.4 is selected in the next printing sample.



8. Press the [+] key or [-] key on Operation panel and enter the number selected in step 7.



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



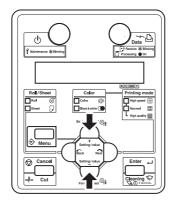
- To print other patterns, repeat the procedure from step 1.
- This completes print micro adjustment.

4.5.1.2.5 Initializing Adjust Print

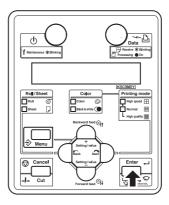
Follow the procedure below to initialize print micro adjustment.

- 1. Display the Micro adjustment menu on Operation panel.
 - a. Press the [Menu] key on Operation panel.
 - "*Menu* Test Print>" is displayed on Operation panel.
 - Operation panel shifts to the Setup menu display.
 - b. Press the [>] key on Operation panel.
 - "*Menu* Media Set>" is displayed on Operation panel.
 - c. Press the [Enter] key on Operation panel.
 - "Type: Coated Media" is displayed on Operation panel.
 - d. Press the [+] key or [-] key on Operation panel to select the media type to use.
 - e. Press the [Enter] key on Operation panel.
 - "Effect: None" is displayed on Operation panel.

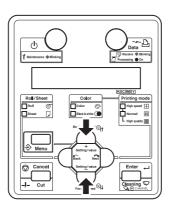
- When using user media 1 to 4, "Print Quality: Drawing" is displayed on Operation panel.
 - f. Press the [>] key a few times on Operation panel and select "PF Adjust: Pattern A".
 - The procedure moves on to the Micro adjustment menu.
- 2. Press the [+] key or [-] key on Operation panel to select "Initialize".



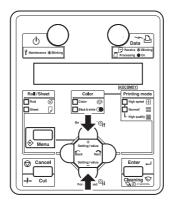
3. Press the [Enter] key on Operation panel.



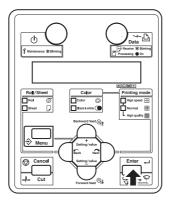
- "Init: Pattern A" is displayed on Operation panel.
- 4. Press the [+] key or [-] key on Operation panel to select the pattern to initialize.



- "Head Height: Low" is displayed on Operation panel.
- 5. Press the [+] key or [-] key on Operation panel to select the head height from "Low" or "High".



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



- Initializes the selected adjusted value.
- To initialize other adjusted values, repeat the procedure from step 1.
- This completes adjusted value initialization.

4.5.1.3 Command Menu

Setup item	Setting value	Description
Command	<mh-gl, 2="" gl=""></mh-gl,>	Condition setup of printer command which is sent from
	MH-GL/2	a PC to the printer is performed.
Origin	<center></center>	• Origin point of print data is set.
	LL	Center: Center of hard clipLL: Bottom left point of hard clip
Step	<0.025 mm>	The step of software resolution at printing is set.
	0.010 mm	
Position	<p1></p1>	The initial print position on printing is set.
	LL	P1: Initial point of scalingLL: Bottom left point of hard clip
	Full	• Full: Bottom left point of media
Terminator	Normal	The function at the print finish time on printer
	<special></special>	 command included in print data is set. Normal: Only the primary function of printer command is used. Special: SP0; (SP;) command is recognized as the finish of data.
ImageReso.	300 dpi / <360 dpi> / 600 dpi / 720 dpi / 1200 dpi / 1440 dpi	The resolution when printing image data is set.
OnlineTimer	Off	The time from the break of receiving print data from PC
	2 s to <30 s> to 800 s	to recognize the finish of print data is set.
Merge	<last></last>	Sets the printing method for overlapping area in the
	Mix	printing data.
Quality	<thinline></thinline>	Sets the priority given on figures for printing in the
FillIn	FillIn	printing quality on printing.

Various condition setup of printer command is performed.

- When the Command item on Command Menu is set to "MH-GL/2", the following setting of the setup item becomes disabled.
 - Origin Menu
 - For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

4.5.1.4 **PenSetup Menu**

Setup item	Setting value	Description
PenPrior.	Panel <command/>	 For pen setup (width, color, tone), it specifies which setup should be given priority, from panel or from command. When "Panel" is set, it proceeds to the next setup item. 137 4.5.1.4.1 When "panel" is set in the PenPrior. item.
PenTone	Valid <invalid></invalid>	The pen tone setting for each pen number can be enabled or disabled.

Various settings on the pen used for printing can be set.

NOTE

• For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

TIP

• To perform monochrome binary printing (black/white), set the color mode of the panel to "Monochrome", the pen tone to "Effective", and each pen tone to "100%".

Setup item	Setting value	Description
Pen0Width to Pen15Width	0.10 mm / 0.13 mm / 0.18 mm / 0.25 mm / 0.35 mm / 0.50 mm / 0.60 mm / 0.70 mm / 0.80 mm / 0.90 mm / 1.00 mm	 Pen width (line width) to the pen number of print data received from a PC is set. NOTE Initial settings of pen width to pen number are as follows. Pen0: 0.25 mm Pen1: 0.10 mm Pen2: 0.13 mm Pen3: 0.18 mm Pen4: 0.25 mm Pen5: 0.35 mm Pen6: 0.50 mm Pen7 to Pen15: 0.25 mm
Pen0Color to Pen15Color	0/1/2/3/4/5 to 255 (when color is set)	 Pen color (line color) to pen number of print data received from a PC is set. NOTE Initial settings of pen color to pen number are as follows. Pen 0: 0 Pen 1: 1 Pen 2: 2 Pen 3: 3 Pen 15: 15 Check the correspondence between pen numbers and colors with palette print sample. Image 3.5.3 Palette Print
Pen0Tone to Pen15Tone	0% / 10% / 20% to 100% (when black & white is set)	 Pen color (line color) to pen number of print data received from a PC is set. NOTE Initial settings of pen tone to pen number are as follows. Pen0 to Pen15: 100 %

4.5.1.4.1 When "panel" is set in the PenPrior. item.

Setup item	Setting value	Description
All Width	0.10 mm / 0.13 mm / 0.18 mm / 0.25 mm / 0.35 mm / 0.50 mm / 0.60 mm / 0.70 mm / 0.80 mm / 0.90 mm / 1.00 mm	All Width are set to the same setting.
All Color	0 / 1 / 2 / 3 / 4 / 5 to 255 (when color is set)	All Color are set to the same setting.
All Tone	0% / 10% / 20% to 100% (when pen tone is enabled)	All Tone are set to the same setting.

4.5.1.5 Layout Menu

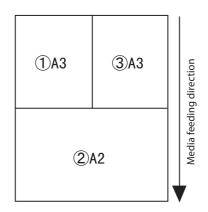
Various settings on the layout function can be set.

Setup item	Setting value	Description
Layout	On	Enable or disable the layout function.
	<off></off>	
LayoutMehod	MAX-MIN	Layout method of print data is set.
	<command/>	 Command: When there is a page size specified command in print data, media size is decided from the area specified by the command and data is placed. MAX-MIN: Regardless of the coordinate origin and page size specified command, decide which media size can hold the data from the max value (MAX) and minimum value (MIN) of real data and place the data with fitting the center of area into the center of media.
Margin	<normal> Full</normal>	 The decision method on which media size can hold, based on the origin of data about layout of print data, is set. Normal: The size of print data is decided from the printable area of media. Some print data might be printed on one size larger media than the media set with CAD. Full size: The size of print data is decided from the set media size. Print content of some print data might be broken on the way.
CutLine	On <off></off>	When more than one print data is located in the same page, it sets whether borders of the data are printed or not.
LayoutTimer	Off 10 s to <120 s> to 800 s	The idle time from the break of receiving print data from PC to output print data is set.

NOTE

- Layout function is the function which automatically determines the size of print data sent from a PC and print it after locating on the roll media without futility.
- When the Layout item is set to "On", locate print data as per the following example.

(example) When the data is received in order of 1) A3 \rightarrow 2) A2 \rightarrow 3) A3, layout as shown in the right drawing. Actual printing is performed in order of 2) A2 \rightarrow 1), 3) A3 data.



- When the Layout item is set to "Off", print is performed sequentially after receiving print data.
- When sheet media is set, the layout function becomes disabled.
- The layout function might not become enabled depending on print data.
- For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

4.5.1.6 Function Menu

Setup item	Setting value	Description
Scale	25% to <100%> to 400%	 Scaled or trimmed factor of print data is set. NOTE If raster data including extremely thin line is printed by changing the scale, the data might not be printed properly. In this case, print it by setting the scale to 100%.
Mirror	<off></off>	The function which mirror print data to each direction of X axis and Y axis and prints the data is set.
	X On	-
	Y On	
	XY On	
Rotation	<0°>	The function which rotates print data to the direction of
	90°	counterclockwise and prints the data is set.
	180°	1
	270°	

Various settings on the process of print data can be set.



• For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

4.5.1.7 Network Menu

Setup item	Setting value	Description
IPaddress	0.0.0.0 to <192.168.1.253> to 255.255.255.225	IP address of the printer is set.
SubnetMask	0.0.0.0 to <255.255.255.0> to 255.255.255.225	Subnet mask of the printer is set.
Gateway	0.0.0.0 to <192.168.1.254> to 255.255.255.225	IP address of the gateway to which the printer connects is set.
BiDir Port	1024 to <10610> to 49151	Port number of bidirectional port in the printer is set. The same port number as the number which was set at installation of printer driver is set.
MAC Address	Display only	Display the MAC address.

Various settings on network interface can be set.

NOTE

• For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

4.5.1.8 Utility Menu

Setup item	Setting value	Description
Version	-	Displays the firmware version.
Serial No.	-	Display the serial number.
MenuMask	<normal> OFF AlwaysOFF</normal>	 The display item on the setup menu is set. Normal: The following setup item is displayed. TestPrint Menu MediaSet Menu Layout Menu Network Menu (excluding the BiDir Port item) Utility Menu (excluding the Initial item) Consumption Menu OFF: All setup item is displayed until turning the power OFF. AlwaysOFF: All setup item is always displayed.
ErrorDisplay	On <off></off>	The display method to the operation panel when the slight error has occurred is set.
Initial	Yes <no></no>	The setting is returned to default. When "Yes" is set, it proceeds to the next setup item. 入習 4.5.1.8.1 When "Yes" is set at the Initial item
Data Dump	Start/End All	 Dump print for checking online function is performed. NOTE The dump print function should only be used by our service personnel to check the printer's functions. Do not use it for normal print.
CutterChange	<no> Yes</no>	Cutter change handling is performed. TIP • For cutter change procedure, refer to "5.1.3 Replacing razor blade".
On Cleaning	On <off></off>	Set whether cleaning is performed automatically or not when the power is turned ON.

Various settings on the advanced function of the printer can be set.

Setup item	Setting value	Description
Prefeed	<data> Manual Off</data>	 Make settings for the pre-feed operation. Data: Performs front feeding and back feeding by the amount of print data. Loosening the roll media may decrease uneven media feeding. Manual: Performs front feeding and back feeding by the amount set in "Pre-feed Amount Menu". Loosening the roll media may decrease uneven media feeding. X = 4.5.1.8.2 Pre-feed Amount Menu OFF: Front feeding and back feeding are not performed.
AutoCL	Waiting Time Printing Time Before Print	 If you make the settings for situation and time, cleaning is performed automatically. Waiting Time: Make the setting for auto-cleaning in standby mode. ↓ 4.5.1.8.3 Idle Auto Cleaning Printing Time: Make the setting for auto cleaning during printing. ↓ 4.5.1.8.4 Printing Mode Auto Cleaning Before Printing: Make the setting for auto cleaning before printing. ↓ 4.5.1.8.5 Pre-printing Mode Auto Cleaning Cleaning
Spitting	<on> On Media Off</on>	 Sets up the spitting operation while printing. NOTE When Spitting is set to Off, Nozzles will become easily clogged because spitting is not performed. In such a case, print quality cannot be guaranteed. During the spitting operation, a small amount of ink is discharged from Print head. ON: Perform the spitting operation on Spitting box located on the origin side for every shuttle of the print head. On Media: Perform the spitting operation on the page margins. The printing speed will improve since the number of time returning to Spitting box is reduced. OFF: Spitting operation is not performed.

Setup item	Setting value	Description
Take-up	<off> On</off>	Set whether to use Take-up unit. Off: Take-up unit is not used. On: Use Take-up unit. NOTE If Take-up unit is set to ON, the printer operation complies with Take-up unit.
Ink Capacity (K/C/M/Y)	<110 ml> 220 ml	 Make settings for the ink amount per color (K/C/M/ Y).Make the setting based on the amount of ink cartridges you are using. 110 ml: 110 ml ink cartridges are used. 220 ml: 220 ml ink cartridges are used.
Language	Japanese <english> German French Italian Spanish Dutch Portuguese</english>	Select the language to display on Operation panel.

- When set to "Normal" on the MenuMask Menu, the Initial Menu will not be displayed.
- For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

Setup item	Setting value	Description
All	Yes	All settings can be returned to factory default.
	<no></no>	
Paper		The settings of the MediaSet Menu is returned to factory
	<no></no>	default.
Command Yes The settings of the Command Mern <pre></pre>	The settings of the Command Menu is returned to	
	<no></no>	factory default.
Pen	Yes	The settings of the PenSetup Menu is returned to factory
	<no></no>	default.
Layout Yes The settings of the Layout Me default.	The settings of the Layout Menu is returned to factory	
	<no></no>	default.
Function Yes <no></no>	Yes	The settings of the Function Menu is returned to factory default.
	<no></no>	
Network	Yes	The settings of the Network Menu is returned to factory default.
	<no></no>	

4.5.1.8.1 When "Yes" is set at the Initial item

4.5.1.8.2 Pre-feed Amount Menu

Performs front feeding and back feeding by the set amount.Loosening the roll media may decrease uneven media feeding.

Setup item	Setting value	Description
Prefeed amount	<off> / 0mm to 3,000 mm</off>	Make settings for the pre-feeding amount

4.5.1.8.3 Idle Auto Cleaning

Select the time until auto cleaning is in standby mode.

Setup item	Setting value	Description
Waiting Time	0 min to 10 min to <360 min> to 1,440 min	 Sets the time for auto cleaning in Waiting Time mode. 0 min: Auto cleaning is not performed. Other: Set the time, and then proceed to the next setting item. 127 4.5.1.8.6 Cleaning Types

4.5.1.8.4 Printing Mode Auto Cleaning

Select the interval for auto cleaning during printing.

Setup item	Setting value	Description
Printing Time	<0 min> to 5 min to 180 min	 Select the interval for auto cleaning during printing. 0 min: Auto cleaning is not performed. Other: Set the time, and then proceed to the next setting item. 127 4.5.1.8.6 Cleaning Types

4.5.1.8.5 Pre-printing Mode Auto Cleaning

Select whether to perform auto cleaning before printing.

Setup item	Setting value	Description
Before printing	< Off> On	 Off: Auto cleaning is not performed. On: Performs auto cleaning before printing. Go to the next setting item. Car 4.5.1.8.6 Cleaning Types

4.5.1.8.6 Cleaning Types

Select the type for auto cleaning.

Setup item	Setting value	Description
Time	<short></short>	• Short: Discharges smaller amount of ink compared
	Normal	to Normal. Normal: Select this mode normally.
	Long	• Long: Discharges a larger amount of ink compared to Normal.Used when Print head does not improve by normal head cleaning.

4.5.1.8.7 Spitting Pass Count Menu

Set the intervals that Print head returns to Spitting boxes when "On" or "On Media" is set in Spitting menu. Print head returns to Spitting box for every shuttle per the set number.

NOTE

• If the number of spitting returns is set high, the spitting operation is not done on Spitting box. Therefore there is a higher chance of nozzle clogging when printing for a long time. In such a case, print quality cannot be guaranteed.

Setup item	Setting value	Description
ReturnCount	<1 time> to 999 times	Set the spitting return count.

4.5.1.9 **Consumption Menu**

Utilization status of printer components is displayed. Take it into consideration for the component replacement.

Setup item	Setting value	Description
Remain Ink K	0 to 100%	Residual quantity of each color is displayed.
Remain Ink C	0 to 100%	— "Ink End" error is displayed at 0%.
Remain Ink M	0 to 100%	
Remain Ink Y	0 to 100%	
Remain Roll	**m	Residual quantity of roll media is displayed. It is displayed when it is set on roll media management menu.
RemainWasteTank	0 to 100%	Residual quantity in waste tank is displayed. Waste fluid quantity in the box becomes full at 0%.
RemainCutterLif.	0 to 100%	The life of cutter is displayed. The lifespan of the parts is reached at 0%.

NOTE

- Do not take out or insert ink cartridge while the printer is turned ON. If doing so, the ink residual quantity is not correctly detected and the printing cannot be done.
- Do not keep using the parts which have reached the lifespan without changing. The problems caused by doing so will not be covered by the warranty.
- For the operation of the setting menu, refer to "4.5.2 Menu Setup Procedure".

4.5.1.10 Cleaning Menu

Performs head cleaning.

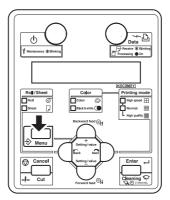
 Head cleaning can be operated when the printer is in the Normal condition. Refer to the following for operation procedures.
 175.2.3 Head cleaning

Setup item	Description
Short	Discharges smaller amount of ink compared to "Normal".
Normal	Select this mode normally.
Long	Used when Print head does not improve by "Normal".
Longer	Used when Print head does not improve even if perform "Long" head cleaning several times.Consumes a lot larger amount of ink than "Long".The cleaning effect is much higher than "Long".

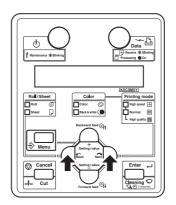
4.5.2 Menu Setup Procedure

Follow the procedure below to configure each setup menu.

- 1. Confirm that Operation panel is in the Normal condition.
- 2. Press the [Menu] key on Operation panel.



- "*Menu* Test Print>" is displayed on Operation panel.
- Operation panel shifts to the Setup menu display.
- 3. Press the [<] key or [>] key on Operation panel to select a setup item and press the [Enter] key.

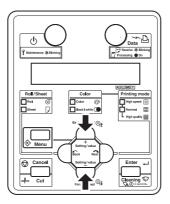


- The settings will be confirmed.
- When the setup item has a submenu, the display shifts to the next menu.

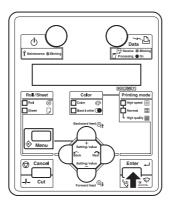
NOTE

- When a setup item has a submenu, ">" is displayed on the right end of LCD monitor of Operation panel.
- For details on each setting item, refer to "4.5.1 Setup menu items".

4. You can change the set value that is blinking on LCD monitor of Operation panel. Press the [+] key or [-] key on Operation panel to change the set value.



5. To save the changed set value, press the [Enter] key on Operation panel.

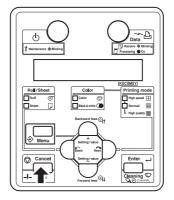


• The set value is saved and the next setting item is displayed.

NOTE

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

6. Press the [Menu] key or [Cancel] key on Operation panel to exit from the setup.



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

4.6 **Operating from the operation panel**

Various functions which can be operated from operation panel are described.

TIP

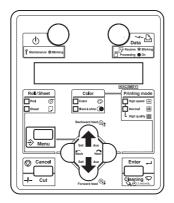
• For names and functions of each key, refer to "2.2.5 Operation panel".

4.6.1 Media feed

When roll media is set, it can be fed to any position. According to the following procedure, feed media.

NOTE

- When sheet media is set, even if the [Forward feed ↓] key or [Backward feed ↑] key on the operation panel is pressed, media feed cannot be performed.
- 1. Check that the operation panel is Normal.
- 2. Check that the media loading lever is returned to the front side.
- 3. Press the [Forward feed \downarrow] key or [Backward feed \uparrow] key on the operation panel.

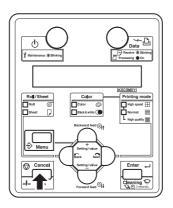


- Media is fed forward or backward.
- 4. Release the [Backward feed ↑] key or [Forward feed ↓] key on the operation panel after feeding media to the desired position.

4.6.2 **Stopping printing operation**

If you want to stop printing operation 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
Printing	Terminate printing and delete a file of the data that remains in the printer.
Receiving, analyzing	Delete the received and analyzed data, and delete a file of subsequent data.
Ink dry timer wait	Release ink dry timer wait, and eject media.

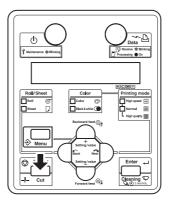
4.6.3 **Cut media**

When the printer prints on roll media, it cuts media automatically after printing. Roll media can be cut at any position.

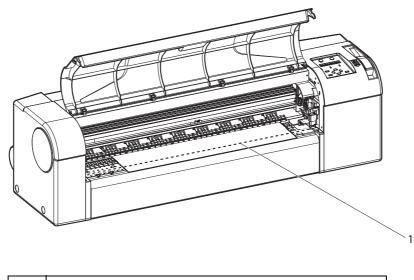
According to the following procedure, cut roll media.

- 1. Check that the operation panel is Normal.
- 2. Check that the media loading lever is returned to the front side.

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



• Roll media is fed forward about 90 mm and cut at media cut position.



No.	Name
1	Media cut position

NOTE

- If it is not straight when loading the new roll media, cut the front edge of the roll media.
- If "Cut length at the top" in "4.5.1.2 MediaSet Menu" is set, the media is cut at the length that was set at the media initialization.
- The razor blade is replaceable. Following the instructions described in "5.1.3 Replacing razor blade", periodically replace it.

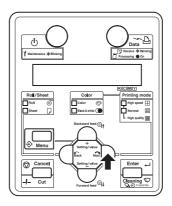
4.6.4 **Print mode selection**

According to the proper quality and print speed, the following print mode can be set.

Print mode	Feature	
High speed color	Set to give priority to the print speed.	
High speed black & white	Use for checking print.	
Normal color	Set to give priority to the print quality.	
Normal black & white	Use it when high accuracy is required for the result like formal print out.	
High-quality color	Set to make the print quality higher than the normal color or normal black & white.	
High-quality monochrome		

According to the following procedure, select the print mode.

- 1. Check that the operation panel is Normal.
- 2. Press the [Next] key on the operation panel.



• The selected printing mode lamp is turn on (green).

NOTE

• When printing using the printer driver, the setting made on the printer driver is given priority over the setting set from Operation panel.For setting the printer driver, refer to "4.4 Setting the printer driver".



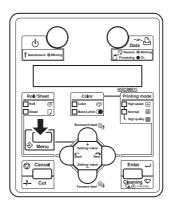
• For details of print mode, refer to "7.1.2 Printing operation specifications".

4.6.5 Changing Media Feed Compensation

During operation such as while printing, you can change the set value for media feed compensation.

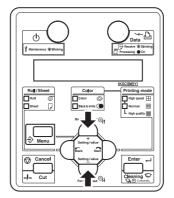
Follow the procedure below to change the set value for media feed compensation.

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



• "Micro: XXpulse"(XX is a value) is displayed on Operation panel.

3. Press the [+] key or [-] key on Operation panel to change the set value.



NOTE

• When a setting is saved during operation, be sure to select "Backup" to save the setting that you have changed.

If the printer returns to the Normal condition without "Backup" being selected, the changed setting is not saved.

Setup item	Setting value	Description
PF Adjust	-20 pulse to 0 to 20 pulse	Change the feed adjustment value.
Backup	-	Press the [Enter] key to save the setting.

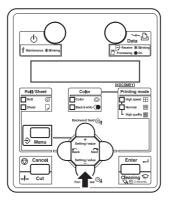
4.6.6 Pausing Printing

It is possible to make a pause during printing.

Follow the procedure below to pause or restart printing.

NOTE

- If the printing is paused, the print quality can not be guaranteed.
- 1. Check that the printer is in operation.
- 2. Press the [-] key on Operation panel.



- The printer pauses printing.
- "PrintRestart -> ENTER" is displayed on Operation panel.
- 3. To restart printing, press the [Enter] key on Operation panel.

5 Maintenance

This chapter describes the daily maintenance of the product.

5.1 Replacing consumable components

This section describes the replacement time and steps of ink cartridge, roll media, razor blade, waste fluid box and flushing box sponges.

5.1.1 Replacing ink cartridges

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

(1) Replacement time

- a. If the operation panel displays "[***] InkNearEnd". This message will be displayed when the ink in the ink cartridge gets low.
 - You can check which color is nearing the end with the indicator on Operation panel.
 X22.6 Indicator Display
 - Prepare the ink cartridge for replacement.
- b. If the operation panel displays "[***] Ink End".
 - This message will be displayed when the ink in the ink cartridge runs out.
 - You can check which cartridge needs replacing with the indicator on Operation panel. **12 2.2.6 Indicator Display**
 - Immediately replace with a new ink cartridge.

NOTE

- [***] represents the ink color. For details, refer to "2.2.6 Indicator Display". If an error occurs on all ink colors, an error message will be displayed without alphabetic code.
- Do not insert or remove the ink cartridge except at the time of replacement. Inserting or removing the ink cartridge mixes the air within the ink tubing and failures such as nozzle detachment may occur.
- If "[***] Ink End" appears, printing cannot be performed until the new ink cartridge is inserted.
- If there is no cartridge for replacement at hand, leave the empty ink cartridge inserted to the printer. Leaving the ink cartridge removed from the printer may result in a clogging head.

(2)Type

Our genuine ink cartridges that can be used for the printer are as follows.

Description	Model No.
Ink cartridge K (Black: 110 ml)	RJ9-INK BK
Ink cartridge C (Cyan: 110 ml)	RJ9-INK C
Ink cartridge M (Magenta: 110 ml)	RJ9-INK M
Ink cartridge Y (Yellow: 110 ml)	RJ9-INK Y

NOTE

- Use the genuine ink cartridge for replacement. This printer has been adjusted for use of genuine ink cartridges. In case of using ink cartridge which is not a product of the original manufacturer,
- Printing might become blurred and end of ink in the cartridge might no longer be correctly detected.
- The problems caused by doing so will not be covered by the warranty and repair expenses will be paid by the customer.

(3) Replacing steps

Replace ink cartridges in accordance with the following steps.

- Wear protective equipment (gloves, goggles or eye protection, protective mask, protective clothing) when handling ink cartridge. If the ink gets into the eyes or sticks to the skin, immediately wash off with water. It might possibly cause irritation and light inflammation of eyes. In case of any abnormality, consult the physician immediately.
- Do not disassemble the ink cartridge. If disassembled, there is a possibility that the ink might come into contact with eyes or skin.

NOTE

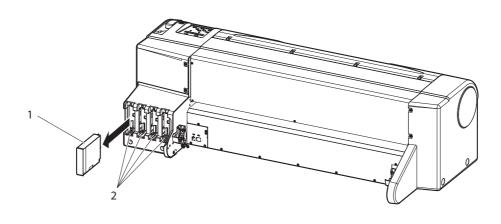
- Do not give ink cartridges strong shake. Doing so may cause ink leakage.
- Do not disassemble the ink cartridge. A disassembled ink cartridge cannot be used.
- When the ink cartridge is moved from a cold place to a warm place, keep the ink cartridge unused for three hours or more in the printing environment.
- Do not fill the ink cartridge with ink. Doing so may result in incorrect 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. Check that the power to the printer is turned ON. 文字 3.2.1 Turning the power ON



- Do not replace ink cartridges when the power of the printer is turned OFF. Doing so may not perform the correct detection of the remaining ink, and result in an abnormal printing.
- 2. Remove the replacing ink cartridge from the ink cartridge slot.



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



No.	Name
1	Ink cartridge
2	Ink cartridge slot

3. Pick up the new ink cartridge from the bag.

NOTE

- Open the ink cartridge bag just before attaching the ink cartridge to the cartridge slot. Leaving the ink cartridge open for a long time may result in an abnormal printing.
- Empty the ink cartridge within 2 years from the date printed on the package. Using an ink cartridge after use period may affect the printing quality.
- Replace the ink cartridge 6 months after setting it to the printer.
- 4. Attach the new ink cartridge.
- 5. Check that the operation panel returns to Normal.

NOTE

• The printer restarts printing when replacing ink cartridges during printing.

5.1.2 Replacing roll media

This sub-section describes the replacing time and steps of roll media.

(1) Replacement time

Replace roll media when the following situation occurs.

- a. If the roll media set to the printer runs out
 - Operation panel displays "End Of Roll".
 - If the media runs out during printing, the printer stops printing operation.
- b. When you want to change the media type to use

(2) Type

(TIP

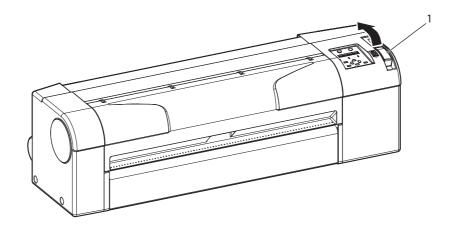
For types and details of roll media, refer to the following section.
 Coptions/Supply list

(3) Replacing steps

Replace roll media in accordance with the following steps.

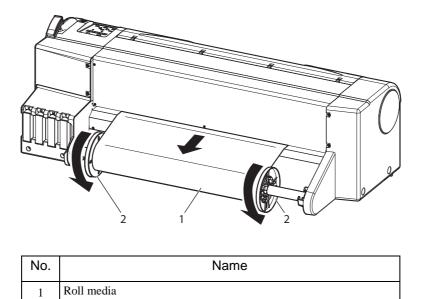
1. When the power of the printer is turned ON, check that the operation such as printing is not performed.

- Be careful to see that fingers are not caught in between opening and closing the media cover.
- 2. Push the media loading lever backward.



No.	Name	
1	Media loading lever	

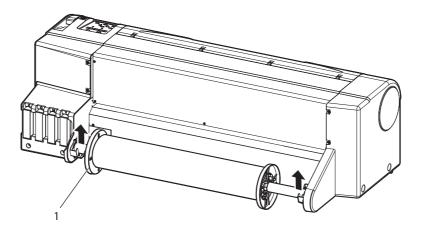
3. Lift both end of the scroller, and manually rewind the roll media.



4. Remove the scroller from the printer, and place it on a horizontal place.

Scroller

2

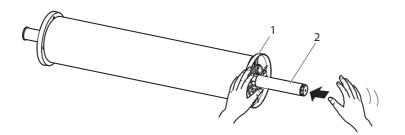


No.	Name
1	Scroller

5. Hold the movable flange, and tap the scroller as illustrated below to remove the movable flange.

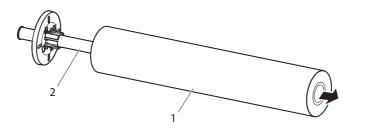
NOTE

• When removing roll media, do not give a shock to the left end of the scroller (movable flange side) by dropping it to the floor. Doing so may damage the left end of the scroller due to the shock.



No.	Name
1	Roll media
2	Scroller

6. Remove roll media from the scroller.

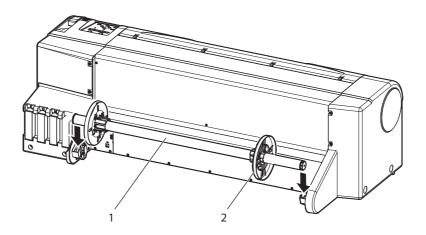


No.	Name
1	Roll media
2	Scroller

7. For loading other roll media, follow the instructions below.

- For loading the roll media, refer to "3.4 Media handling".
- For roll media you do not use, store it according to "4.2.3 Precaution on storing media".

8. When you do not set roll media, attach the movable flange to the scroller to set the scroller to the printer.



No.	Name
1	Scroller
2	Movable flange

5.1.3 **Replacing razor blade**

This sub-section describes the replacement time and steps of razor blade.

(1) Replacement time

Replace the razor blade when the following situation occurs.

- a. If the media cannot be clearly cut.
 Failure in cutting media displays "Paper Cut Error" on the operation panel.
- b. If fuzz, etc. appears on the cut section.

(2)Type

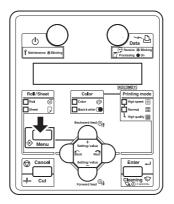
Our genuine razor blade that can be used for the prrnter is as follows.

Description	Model No.
Substitute razor blade	RJ3-CBS

(3) Replacing steps

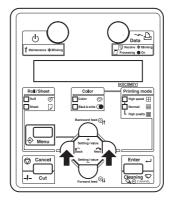
Replace razor blade according to the following steps.

- Check that the power to the printer is turned ON. で 3.2.1 Turning the power ON
- 2. Press the [Menu] key on the operation panel to display the setup menu.

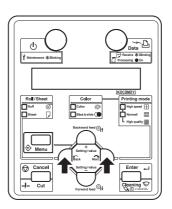


• Operation panel shifts to the Setup menu display.

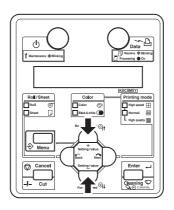
3. Press the [<] key or [>] key on Operation panel to select "*Menu* Utility>".



- Utility menu is displayed.
- 4. Press the [<] key or [>] key on Operation panel to select "CutterChange", and press the [Enter] key.

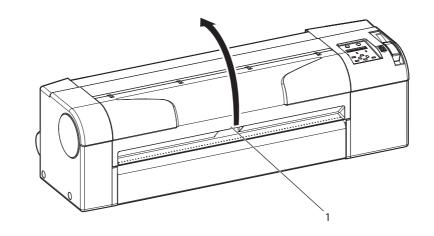


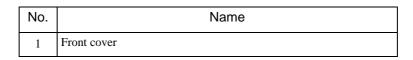
- Cutter replacement menu is displayed.
- 5. Press the [+] key or [-] key on Operation panel to select "CutterChange: Yes", and press the [Enter] key.



• You can start replacing Cutter.

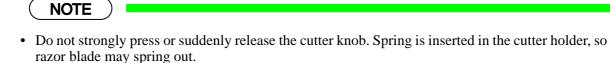
- 6. Open Front cover.
 - Print head moves and stops at the position to replace Cutter.
 - "Cutter Changed ?" is displayed on Operation panel.



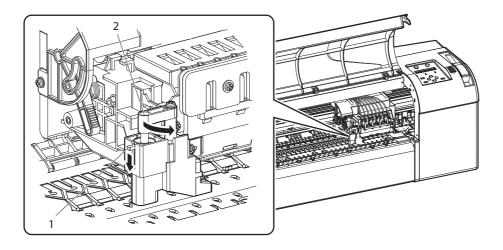


NOTE

- Perform the cutter change operation in a short time. Leaving carriage section at the cutter change position result in a head clogging.
- 7. Gently push the knob of the cutter, and rotate cutter holder lever to the illustrated direction simultaneously.



• Do not hit the edge of the razor blade with hard objects, or do not drop the razor blade. There is a possibility that razor blade edge may become blunt or get chipped off.



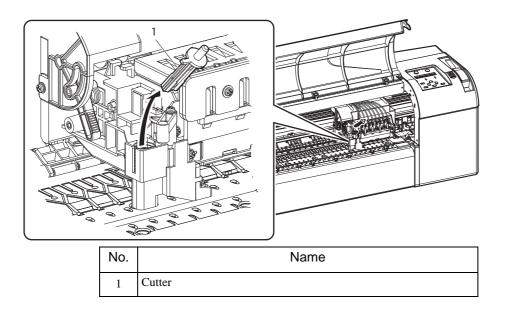
No.	Name
1	Knob of the cutter
2	Cutter holder lever

8. Remove the cutter.

- Do not touch the edge of razor blade. Doing so may cause injury.
- Do not hit the edge of the razor blade with hard objects, or do not drop the razor blade. There is a possibility that razor blade edge may become blunt or get chipped off.



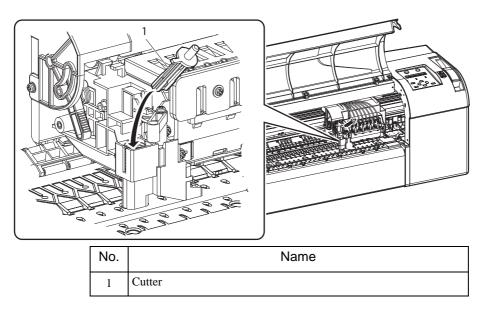
• Used cutter should be put in a vinyl bag, etc, and dispose of it in compliance with local ordinance and instructions of local authorities.



9. Attach the new cutter as shown in the illustration.



• Install the cutter so as not to spring out the spring inserted in the cutter holder.

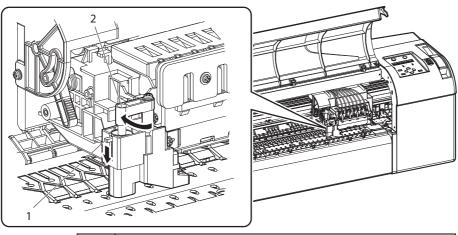


10. Gently push the knob of the razor blade and reposition the cutter holder lever simultaneously.



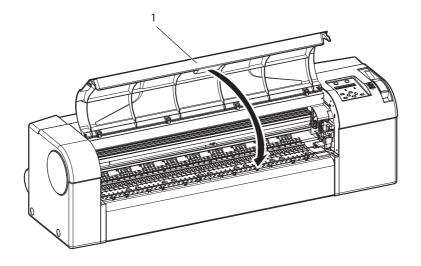
- Do not strongly press or suddenly release the cutter knob. Spring is inserted in the cutter holder, so razor blade may spring out.
- Do not push the cutter holder to the end. Razor blade may damage inside the product.
- Correctly install the cutter holder lever referring to the illustration below. Incorrect installation may generate errors.

If an error occurs, check that the cutter holder lever is attached correctly.



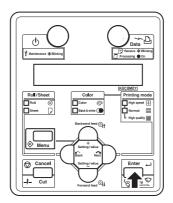
No.	Name
1	Cutter holder
2	Cutter holder lever

11. Close the front cover.



No.	Name
1	Front cover

- 12. Press the [Enter] key on the operation panel.
 - Carriage section returns to the original position.



• This completes the replacing procedure of the razor blade.

5.1.4 Replacing waste fluid box

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

CAUTION Wear protective equipment (gloves, goggles or eye protection, protective mask, protective clothing) when replacing. If the ink gets into the eyes or sticks to the skin, immediately wash off with water. It might possibly cause irritation and light inflammation of eyes. In case of any abnormality, consult the physician immediately.

(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.
 - Prepare a waste fluid box for replacement before the waste fluid box is full.
- 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 for the printer is as follows.

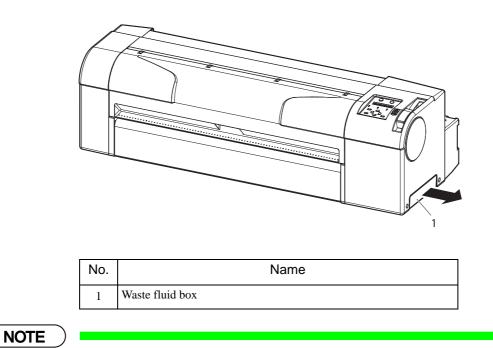
Description	Model No.
Waste fluid box RJ9-HEB	RJ9-HEB

(3) Replacing steps

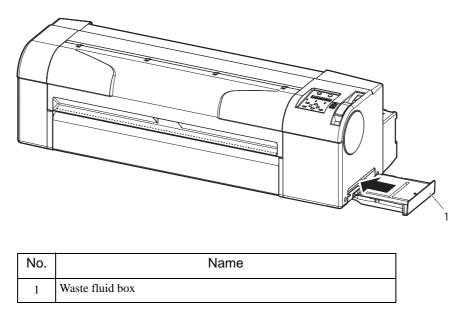
Replace the waste fluid box according to the following steps.

Check that the power to the printer is turned ON.
 C 3.2.1 Turning the power ON

- 2. Pull out the waste fluid box.
 - "No Waste-InkTank" will be displayed on the operation panel.



- Used waste fluid box should be put in a vinyl bag, etc, and dispose of it in compliance with local ordinance and instructions of local authorities.
- 3. Install a new waste fluid box to the printer.

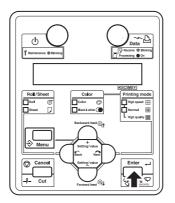


4. Check that the operation panel displays "Exchnage Tank? No".

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



• 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.

5.1.5 Replacing Flushing Box Sponges

This section explains when and how to replace Flushing box sponges.



• Wear protective equipment (gloves, goggles or eye protection, protective mask, protective clothing) when replacing. If the ink gets into the eyes or sticks to the skin, immediately wash off with water. It might possibly cause irritation and light inflammation of eyes. In case of any abnormality, consult the physician immediately.

(1) Replacement time

Flushing box sponges are included in the ink cartridge K (Model number: RJ9-INK BK). Replace Flushing box sponges when replacing the ink cartridge K.

(2)Type

Flushing box sponges are included in the following ink cartridges.

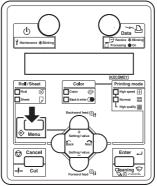
Description	Model No.
Ink cartridge K (Black: 110 ml)	RJ9-INK BK

(3) Replacing steps

Follow the steps below to replace Flushing-box sponges.

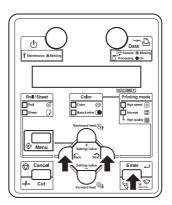
NOTE

- During this operation, wear the gloves that comes with the ink cartridge K.
- Replace the ink cartridge K.
 C管 5.1.1 Replacing ink cartridges
- 2. Press the [Menu] key on Operation panel.

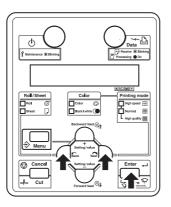


• Operation panel shifts to the Setup menu display.

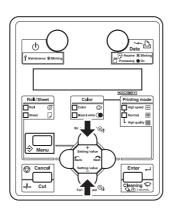
3. Press the [<] key or [>] key on Operation panel to select "*Menu* Utility>", and press the [Enter] key.



- Utility menu is displayed.
- 4. Press the [<] key or [>] key on Operation panel to select "CutterChange".

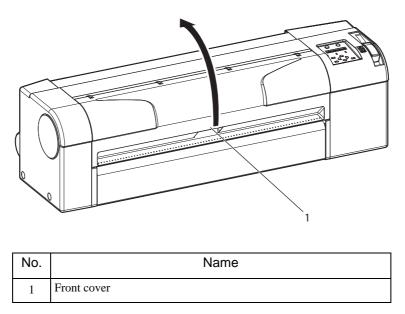


- Cutter replacement menu is displayed.
- 5. Press the [+] key or [-] key on Operation panel to select "CutterChange: Yes", and press the [Enter] key.

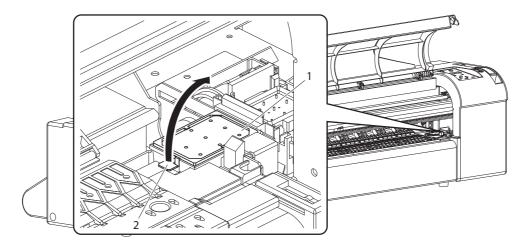


- Print head moves and stops above the platen.
- "Cutter Changed ?" is displayed on Operation panel.

6. Open Front cover.



7. Lift the hook on the flushing box sponge holder to unhook and remove the holder.



No.	Name	
1	Flushing box sponge holder	
2	Hook on the flushing box sponge holder	

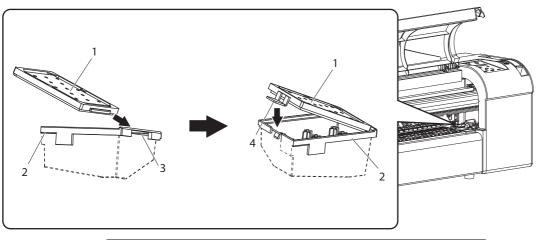
NOTE

• Used Flushing box sponge should be put in a plastic bag, etc, and disposed in compliance with local ordinance or instructions from the local authorities.

- 8. Install the new Flushing box sponge holder to each Flushing box.
 - Insert the leading edge of the holder into the notch on the flushing box and push it in the box until the hook clicks into place.

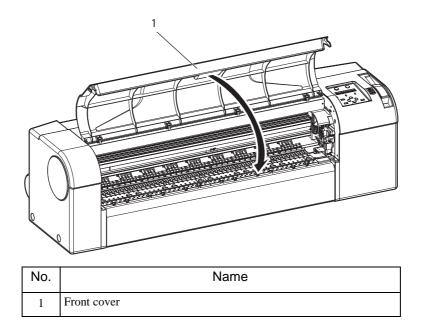
)

• Make sure that the flushing box sponge holder is installed correctly. Improper installation will cause the flushing box to hit the print head while operating, resulting in damage to the print head.

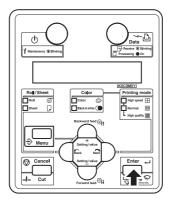


No.	Name
1	Flushing box sponge holder
2	Flushing boxes
3	Notch on the flushing box
4	Hook on the flushing box sponge holder

9. Close Front cover.



10. Press the [Enter] key on Operation panel.



- Print head returns to its original position.
- Flushing box sponge replacement is completed.

5.2 Cleaning the printer

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

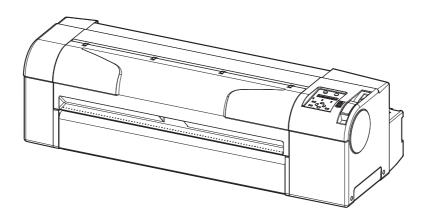
- Do not insert or drop metal or objects which are easily combustible through the openings such as fresh air inlet into the printer. It could lead to an electric shock and fire.
- When foreign substances or liquids such as water entered the printer, do not use the printer as it is. It could lead to an electric shock and fire. Immediately turn off the power switch, disconnect the power plug from the electric socket, and contact MUTOH local dealer.

- Be sure to turn OFF the power, and disconnect the power plug when cleaning the printer.
- Do not use volatile solvents such as thinner, benzene, or alcohol. These could damage the paint.
- Be careful that moisture does not enter the printer. There is a possibility that electric circuit inside the printer might get short circuited.
- Do not open covers attached with screws under any circumstance. There is a possibility of receiving an electric shock or printer breakdown.

This section describes how to clean each part of the printer.

5.2.1 Cleaning the outer case

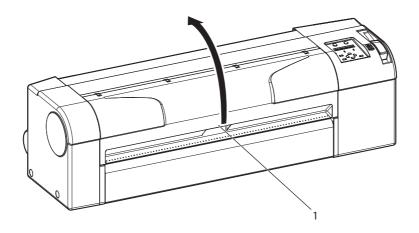
This sub-section describes the cleaning steps of the outer case. Wipe out the dust and dirt adhered to the outer case by using a soft cloth.



5.2.2 Cleaning inside the printer

This sub-section describes the cleaning steps inside the printer. Clean inside the printer according to the following steps.

1. Open the front cover.

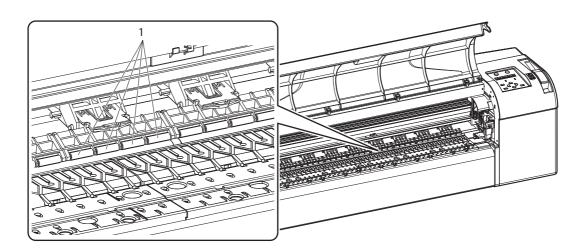


No.	Name
1	Front cover

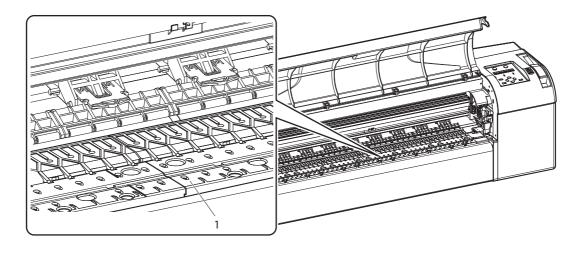
2. For pressurizing roller, remove paper powder and dust using a soft brush.



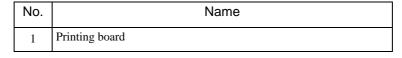
• Do not blow paper powder inside the printer using tools such as an air duster. It may cause an abnormal noise from the inside of the printer.



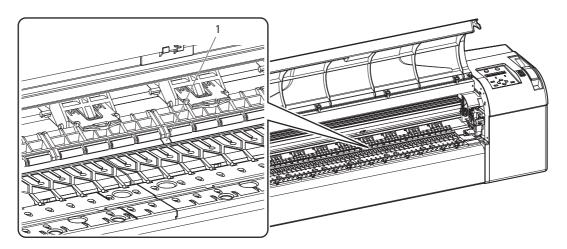
No.	Name
1	Pressurizing roller



3. For printing board, wipe out paper powder and ink using a damp and tightly squeezed soft cloth.



4. For grid roller, wipe off the dirt of the unpainted (silver color) area of the center section with damp and tightly squeezed soft cloth.



No.	Name
1	Grid roller

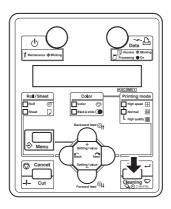
5.2.3 Head cleaning

If printed data becomes blurred or is incomplete, perform cleaning of the head surface and nozzle. (Head cleaning)

Perform head cleaning in accordance with the following steps.

NOTE

- Remove media while cleaning. Cleaning with media set may connect head and media.
- 1. Check that the operation panel is Normal.
- 2. Check that the media loading lever is returned to the front side.
- 3. Press the [Cleaning] key on the operation panel for at least 2 seconds.



- "Cleaning ** minutes" is displayed on the operation panel.
- Start head cleaning.

NOTE

- If print blurs or incomplete printing is not fixed by one head cleaning, perform Long cleaning.
- When nozzle clogging remains even after repeating "Long" cleaning several times, clean the cleaning wiper.
- If the nozzle clogging still is not rectified, carry out "Longer" cleaning.

5.2.4 Cleaning Cleaning Wiper

This section describes how to clean Cleaning wiper.

(1) Time for cleaning

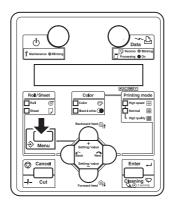
Once a week, or when blurs or lacking parts appear on printed media after Head cleaning.

(2) Cleaning procedures

Follow the procedure below to clean Cleaning wiper.

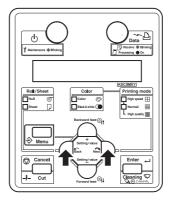


- Use a non-woven cloth (commercial product) to clean Cleaning wiper. Other material of cloth may clog Print head; make sure to use a non-woven cloth.
- Check that the printer is turned ON.
 CP 3.2.1 Turning the power ON
- 2. Press the [Menu] key on Operation panel.

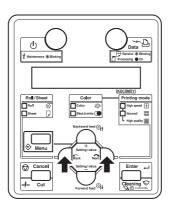


• Operation panel shifts to the Setup menu display.

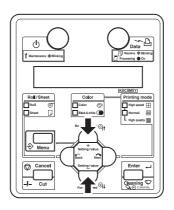
3. Press the [+] key or [-] key on Operation panel to select "*Menu* Utility>", and press the [Enter] key.



- Utility menu is displayed.
- 4. Press the [<] key or [>] key on Operation panel to select "Replace Cutter".

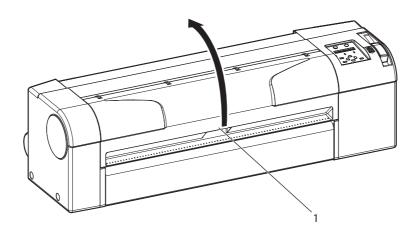


- Cutter replacement menu is displayed.
- 5. Press the [+] key or [-] key on Operation panel to select "Replace Cutter: Yes", and press the [Enter] key.



• You can start replacing Cutter.

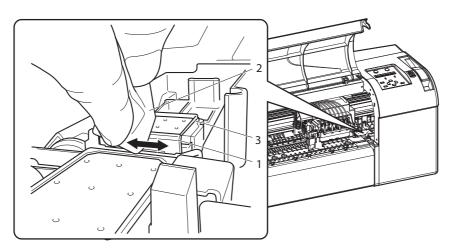
- 6. Open Front cover.
 - Print head moves and stops at the position to replace Cutter.
 - "After Replacing Cutter -> ENTER" is displayed on Operation panel.



No.	Name
1	Front cover

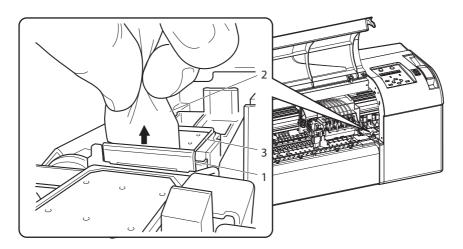
- When cleaning Cleaning wiper:
 - Do not touch Cleaning wiper and Head cap unit. Head cleaning may not be performed correctly because of oil from your hands.
 - Make sure to use a dry Polynit wiper (non-woven cloth) to wipe off any dirt.

- 7. Use a Polynit wiper (non-woven cloth) to wipe off any ink or dust on Cleaning wiper.
 - a. Front side of Cleaning wiper: Remove the ink and dust in the horizontal direction.



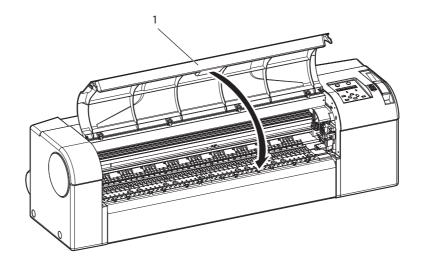
No.	Name	
1	Cleaning wiper	
2	Polynit wiper (non-woven cloth)	
3	Head cap unit	

b. Back side of Cleaning wiper: Remove the ink and dust in the upper direction.



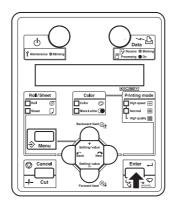
No.	Name	
1	Cleaning wiper	
2	Polynit wiper (non-woven cloth)	
3	Head cap unit	

8. Close Front cover.



No.	Name
1	Front cover

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



- Print head returns to its original position.
- This completes cleaning Cleaning wiper.

5.3 **Transfer and transportation**

This section describes transfer and transportation of the printer.

5.3.1 Transferring the printer

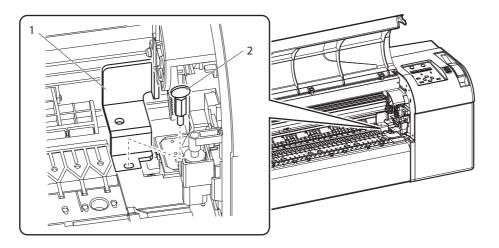
This sub-section describes transferring the printer.

- Transfer the printer maintaining the horizontal position.
- Do not make the main body of the printer slanting or place in vertical positions or do not keep the printer upside down. There is a possibility that ink inside the printer may leak. Moreover, normal operation after shifting (to these positions) cannot be guaranteed.

(1) Pre-transfer steps

When using a dedicated stand, transfer the printer following the steps below.

- Make sure that the printer power is turned OFF.
 Image: Solution 1 and Image: Solutio
- 2. Check that the butterfly bolts (2) attaching the stand and the printer are not loosen.
- 3. Check that the printer head is in the rightmost position.
- 4. Attach the protective material (metal plate) for attaching the head unit, and attach it with thumbscrews.



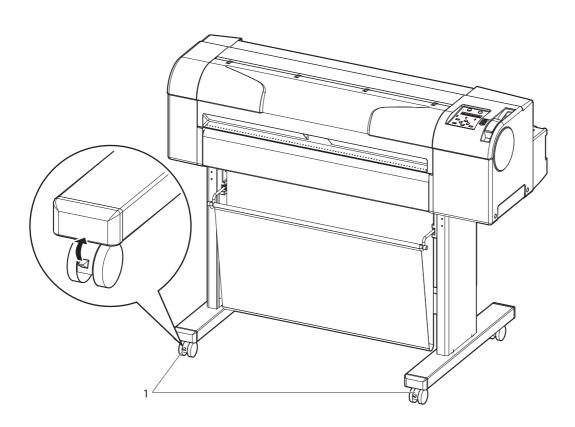
No.	Name
1	Protective material (metal plate) for attaching the head unit
2	Thumbscrew

- 5. Remove the scroller.
- 6. Remove all the cables such as power cables.
- 7. Unlock the casters to move it.

NOTE

• Casters supplied with the dedicated stand are manufactured for a small transfer on the plain area in the room, which is different from the casters of transporting equipment. When moving the printer outdoors in places with big step differences, move the stand and printer separately.

Installation manual



No.	Name
1	Caster

(2) Steps after transfer

After transfer, follow the steps below, and set the printer in an available condition.

- 1. Confirm the suitable place for installation. 〔資 Installation manual
- 2. After transferring the printer to the installation place, attach the printer.
- 3. Check the butterfly bolts (2) fixing the stand and the printer are not loosen when using a dedicated stand.
- 4. Attach cables such as power cables.
 【第3.1 Power cable connection
 【第3.6 Connecting the printer to PC
- Perform the nozzle check, and confirm that there is no clogging in the printer head.
 X 3.5.2 NozzleCheck
- Perform the alignment.
 12 4.5.1.2.4 Adjust Print

5.3.2 Transporting the printer

When transporting the printer, it is necessary to pack in the same condition as at the time of purchase using protective materials and packing materials to protect the printer from vibration and shocks.

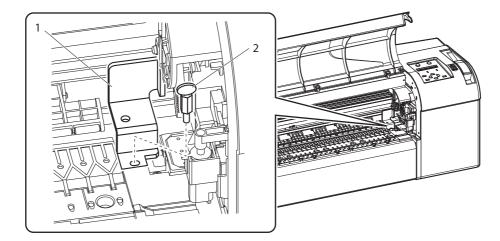
NOTE

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

(1) Pre- transport procedure

- 1. Turn ON the power of the printer. 、 文字 3.2.1 Turning the power ON
- 2. Confirm that the printer functions normally.
- 3. Remove all ink cartridges.
- 4. Turn OFF the power to the printer.12 3.2.2 Turning the power OFF
 - Operation panel displays "Transport Mode", and the printer starts ink rejecting operation.
 - Ink rejecting takes about 2 minutes.
- 5. When ink discharge completes, check that the Power lamp disappears.
- 6. Remove the scroller.
- 7. Remove all the cables such as power cables.
- 8. Check that the printer head is in the rightmost position.

9. Attach the protective material (metal plate) for attaching the head unit, and attach it with thumbscrews.



No.	Name
1	Protective material (metal plate) for attaching the head unit
2	Thumbscrew

- 10. Remove the printer from the stand. で Installation manual
- 11. Repack the printer.

(2) Post-transport procedure

- 1. Perform unpacking, assembling, and setting the printer. 文章 Installation manual
- Set the printer in an available condition.
 江宮 5.3.2 Transporting the printer of (2) Steps after transfer

6 Troubleshooting

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

If the error not included in any items of this section occurs, refer to "6.2 Error messages" and contact MUTOH local dealer.

6.1 Malfunction and failure of the product

This section describes the malfunction and failure of the product without displaying errors, and possible causes and countermeasures.

6.1.1 **Problem at installation and introduction**

(1) Cannot perform ink initial charging

No.	Possible cause	Remedy	Reference
1	The front cover is open, or media loading lever is up.	Close the front cover, or lower the media loading lever.	了了3.4 Media handling
2	Are all four ink cartridges fully inserted?	Fully insert all four ink cartridges.	にする。 1.3 Installing ink cartridges
3	Is the waste fluid box fully inserted?	Fully insert the waste fluid box.	1 5.1.4 Replacin g waste fluid box

(2) Ink does not come out after initial charging

No.	Possible cause	Remedy	Reference
1	Is ink cartridge cool and frozen?	Leave the cartridge at room temperature for at least 3 hours, and perform cleaning several times.	译 5.2.3 Head cleaning
2	Is the power turned off during initial charging?	Turn the power on again and continue initial charging.	3.3 Installing ink cartridges
3	Occasionally, normal printing cannot be performed after initial charging.	Perform cleaning several times, and check it each time.	Cleaning

(3) There is no response even when USB cable is connected

No.	Possible cause	Remedy	Reference
1	Is the USB cable properly connected?	Follow the procedure below to connect it again.1. Remove the USB cable.2. Turn the printer OFF.3. Turn the printer ON.4. Connect the USB cable.	てきる。 1.37 Installing / Unistalling Printer Driver

(4) Cannot install printer driver

No.	Possible cause	Remedy	Reference
1	Are printers added?	Install the printer driver again.	3.7 Installing / Unistalling Printer Driver
2	Did you select the the downloaded .zip file? Does it contain "*.INF" file?	Specify the drive and folder that contain the driver program and install it again.	3.7 Installing / Unistalling Printer Driver

6.1.1.1 If you have connected using the USB cable before installing the driver

- 1. Displays "Devices and Printers" of "Control Panel".
- 2. Select "RJ-900X" displayed as an unspecified device and click "Remove device".

	Devices and Primers		- 0
🐑 🔄 - 🕇 🚳 + Control Panel +	Hardware and Sound + Devices and Printers	- 0	Search Devices and Presses
Add a device Add a pinter Fare	over device		三
Name	Status		
Devices (7)			
+ Printers (2)			
it Fer In Manual XPS Document Writer	12 document(s) in queue 8 document(s) in queue		
 Unipecified (1) 			
@ R5-900X			
The R-900 Market R-40			

- 3. Turn the printer OFF.
- 4. Remove the USB cable.
- 5. Follow the procedure from the step 3 of "**3.7.3** Installing the Printer Driver (for USB Connection)" to start installation.

6.1.2 Cannot generate graphics at all

(1) Do not actuate at all after power activation

No.	Possible cause	Remedy	Reference
1	Is the power cable connected to the plug?	Connect the power cable.	23.1 Power cable connection
2	Is the AC power supply set for the specified voltage?	Connect the cable to another outlet.	C 3.1 Power cable connection
3	The front cover is open, or media loading lever is up.	Close the front cover. Lower the media loading lever.	C會 3.4 Media handling
4	Is the waste fluid box fully inserted?	Fully insert the waste fluid box.	了了5.1.4 Replacin g waste fluid box

(2) Does not work after setting the media

No.	Possible cause	Remedy	Reference
1	The front cover is open, or media loading lever is up.	Close the front cover. Lower the media loading lever.	23 3.4 Media handling
2	Is the media loaded at an angle?	Load the media straight.	233.4 Media handling
3	Is the ink cartridge inserted?	Insert the ink cartridge.	にする Installing ink cartridges
4	Are you using the dedicated media?	Use the dedicated media.	፲출 4.2.1 Media
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.	译 Installation manual

(3) An error is displayed and details not printed after sending data from the computer

No.	Possible cause	Remedy	Reference
1	Is the type of computer selected correctly?	Check that the settings on the computer side and printer side are the same.	【音 3.6 Connectin g the printer to PC
2	Are the interface requirements and command mode the same on the computer side and printer side?		12 4.4 Setting the printer driver

(4) Cannot use the computer in online mode via LAN

No.	Possible cause	Remedy	Reference
1	Is the network interface cable connected correctly?	Connect the network interface cable correctly.	3.6.3 Connect ing network interface cable
2	Is network setting configured correctly?	Configure network settings correctly.	13 4.5.1.7 Netwo rk Menu
3	Match this printer's network settings with the computer side environment.	Match this product's network settings with the computer side environment.	了了3.6.1 System requirements
4	Does the Data lamp on the operation panel turn on after sending graphics data from the computer?	If the Data lamp does not turn on, contact the computer manufacturer.	-

(5) Cannot use the computer in online mode via USB

No.	Possible cause	Remedy	Reference
1	Is the USB cable connected correctly?	Connect the USB cable correctly.	13 3.6.4 Connect ing the USB cable
2	Does the Data lamp on the operation panel turn on after sending graphics data from the CAD?	If the Data lamp does not turn on, contact the CAD or computer manufacturer.	-
3	Is the type of command currently set up, the same as the one on the CAD and driver side?	Match the command setting of the printer to the environment of the CAD and driver.	译 4.5.1.2.4 Adju st Print

6.1.3 Media-related troubleshooting

(1) The media deviates or is torn during initialization.

NOTE

• If the media is jammed or torn, remove it according to "6.3 The media is jammed".

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	13 4.2.1 Media
2	Is the loading position of the media correct?	Set the media correctly.	다 3.4.2 Loading roll media 다 3.4.3 Loading sheet media
3	Is the scroller set correctly?	Set the scroller correctly.	〔ぎ 3.4.1 Roll media loading
4	Are there any foreign materials such paper attached to the pressurizing roller?	Clean the pressurizing roller.	译 5.2.2 Cleanin g inside 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.	LF Installation manual
6	Did you load sheet media?	Set the media size detection method to "Vert." or "Hori.".)29 4.5.1.2 Media Set Menu
7	Are you using folded, torn or rolled media?	Replace the media.	127 4.2.2 Caution s on handling media
8	Does the media curl or float?	Use the dedicated media. If media that is not dedicated is used, set the following items in the MediaSet Menu. • Media • Stiffness	氏音 4.2.1 Media 氏音 4.5.1.2 Media Set Menu

(2) The media is crumpled during initialization.

NOTE

• If the media is jammed or torn, remove it according to "6.3 The media is jammed".

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	〔音 4.2.1 Media
2	Is the loading position of the media correct?	Set the media correctly.	다 3.4.2 Loading roll media 다 3.4.3 Loading sheet media

No.	Possible cause	Remedy	Reference
3	Is the media loaded at an angle?	Set the media straight.	다 3.4.2 Loading roll media 다 3.4.3 Loading sheet media
4	Are there any foreign materials such paper attached to the pressurizing roller?	Clean the pressurizing roller.	135.2.2 Cleanin g inside the printer
5	Is the being 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.	【音 Installation manual
6	Did you load sheet media?	Set the media size detection method to "Vert." or "Hori.".	또한 4.5.1.2 Media Set Menu
7	Are you using folded, torn or rolled media?	Replace the media.	了了4.2.2 Caution s on handling media

(3) The wrong media size is set during initialization.

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	13 4.2.1 Media
2	Is the media loaded at an angle?	Set the media straight.	13 3.4.3 Loading sheet media
3	When the media is set, does it curl upward?	Straighten the media or set a new media.	13 3.4.2 Loading roll media
4	Is the being 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.	氏子3.4.1 Roll media loading
5	Are you using media that has been printed on already?	Use a new media.	译 4.2.1 Media

(4) Tracing paper or thin media is not detected.

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	፲출 4.2.1 Media
2	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.	译 Installation manual

(5) Media jams frequently occur.

NOTE

• If media other than the dedicated one is used, correct media feeding cannot be assured.

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	18 4.2.1 Media
2	Is the media used in a place other than the specified environment?	Use the media in a dedicated environment.	了了4.2.2 Caution s on handling media
3	Using an old media?	Replace it with new media.	13 5.1.2 Replacin
4	Using media with fold, wrinkle, etc?		g roll media C골 3.4.3 Loading sheet media
5	Does the media curl or float?	Use the dedicated media. If media that is not dedicated is used, set the following items in the MediaSet Menu. • Media • Stiffness	도괄 4.2.1 Media 도괄 4.5.1.2 Media Set Menu

(6) The media veers during printing.

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	1월 4.2.1 Media
2	Is the loading position of the media correct?	Set the media correctly.	てき 5.1.2 Replacin g roll media 도音 3.4.3 Loading sheet media
3	Is the scroller set correctly?	Set the scroller correctly.	23.4.1 Roll media loading

(7) Roll media is not cut well.

No.	Possible cause	Remedy	Reference
1	Does the razor blade cut well?	 Replace the cutter blade. To use the media other than specified, make settings for the following items in the Media setup menu. 文習 4.5.1.2.1 When dedicated media is set in Media item 	C 音 5.1.3 Replacin g razor blade
2	Is the roll media charged with static electricity?	Remove the charged static electricity.	-

6.1.4 **Printing-related troubleshooting**

(1) Printing is partially stained or incomplete.

NOTE

• Proper print quality may not be obtained with the media other than the dedicated one.

No.	Possible cause	Remedy	Reference
1	Does the media include moisture?	Replace it with new media.	13 5.1.2 Replacin
2	Using the media with folds and wrinkles?		g roll media 〔2 3.4.3 Loading sheet media
3	Does the media curl or float?	 Use the dedicated media. If media that is not dedicated is used, set the following items in the MediaSet Menu. Media Stiffness 	또할 4.2.1 Media 또할 4.5.1.2 Media Set Menu

(2) The order of printing is incorrect (There are some places that cannot be printed).

No.	Possible cause	Remedy	Reference
1	Is the loading position of the media correct?	Set the media correctly.	にすう.1.2 Replacin g roll media にすう.4.3 Loading sheet media
2	Set the Scale and Mirror?	Cancel or reset the Scale and Mirror settings.	도광 4.5.1.5 Layout Menu 도광 4.5.1.6 Functi on Menu
3	Set the origin and print position?	Cancel or reset the settings of the origin and print position.	〔3 4.5.1.2.4 Adju st Print

(3) Printing is blurred.

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	〕 8 4.2.1 Media
2	Using thick and thin media?	Use the dedicated media.	또 4.2.1 Media
3	Using standard media?	Use the dedicated media.	18 4.2.1 Media
4	Is the media setup correct?	Set up the media correctly.	137 4.5.1.2 Media Set Menu
5	Printing on the printing surface?	Confirm the printing surface of the media and set it correctly.	13 3.4 Media handling

(4) White or black lines appear on the printing.

No.	Possible cause	Remedy	Reference
1	Are you using the dedicated media?	Use the dedicated media.	1월 4.2.1 Media
2	Is the scroller set correctly?	Set the scroller correctly.	〔33.4.1 Roll media loading
3	Is the nozzle in good condition?	Perform head cleaning.	L을 5.2.3 Head cleaning

(5) Printing lines are not straight.

No.	Possible cause	Remedy	Reference
1	Is the ink cartridge within the validity period?		〔3 5.1.1 Replacin g ink cartridges
2	Are you using the dedicated media?	Use the dedicated media.	13 4.2.1 Media
3	Performed an alignment?		137 4.5.1.2.4 Adj ust Print

(6) Printing lines are duplicated or are patchy.

No.	Possible cause	Remedy	Reference
1	Is the nozzle in good condition?		Cleaning

6.2 Error messages

This section describes the messages displayed during the normal operation and occurrance of error of the printer, and their solutions.

6.2.1 Status messages

This section describes the display during the printer operation. When the product is operating correctly, the operation panel displays each operation status as below.

No.	Possible cause	Remedy	Reference
1	Print Ready	Idling (Media is set).	-
2	Paper End	Idling (Media is not set).	C 3.4 Media handling
3	Receiving	Receiving data. (* displays a port no.)	-
4	Converting	Analyzing data. (* displays a port no.)	-
5	Printing	Under printing.	-
6	Cleaning ** minutes	Cleaning the head. Please wait a while.	译 5.2.3 Head cleaning
7	Ink Refill **min	Charging the ink. Please wait a while.	了了3.3 Installing ink cartridges
8	Transport Mode	Preparing for transportation. Please wait a while.	了了5.3.2 Transpo rting the printer
9	****** OK?	Initializing the media. Please wait a while.	3.4.4 Releasin
10	Paper Initial	(*** represents the setup media type.)	g the Partial Function of Pressure Arms
11	Cover Open	The front cover is open.	了了3.4 Media handling
12	Lever Up	The media loading lever is lowered backward. Set the media.	〔33.4 Media handling
13	Layout Receiving	After receiving print data, the printer is waiting for the receive of the next data. Displayed when the layout function is enabled.	〔蒼 4.5.1 Setup menu items

6.2.2 Error message display and remedies

This section describes the details of the display when an error message appears and its remedy. Error messages are displayed when certain failures occur during printer operation.

If an error message appears, the printer may display the following error message on the operation panel and stop operation.

When operation stops and the error is solved, the error message is cancelled and the printer restarts operation.

No.	Display	Description	Remedy	Reference
1	Undefined Paper	Failed in identifying the media. (Stops operation)	Reload the media.	文章 3.4 Media handling
2	Paper Slant	The media was not fed straight. (Stops operation)	Reload the media.	23.4 Media handling
3	Paper Cut Error	The media could not be cut. (Stops operation)	Reload the media.	译 3.4 Media handling
4	Not Enough Roll	Roll media has run out. (Stops operation)	Load a new roll media.	了了5.1.2 Repla cing roll media
5	End Of Roll	The roll media has run out. (Stops operation)	Reload a new roll media.	道 5.1.2 Repla cing roll media
6	[***] InkNearEnd	Ink is running out. (Continues operation)	Prepare a new ink cartridge.	13 5.1.1 Repla cing ink cartridges
7	[***] Ink End	Ink has run out. (Stops operation)	Replace with a new ink cartridge.	13 5.1.1 Repla cing ink cartridges
8	[***] Cartridge	Cartridge is not inserted. (Stops operation)	Insert an ink cartridge.	Lき 3.3 Installi ng ink cartridges
9	Discharged	Initial charging has not been performed. (Stops operation)	Perform initial ink charging.	13 3.3 Installi ng ink cartridges
10	NearFullWasteInkTank	Waste fluid box shortly becomes full. (Continues operation)	Replace the waste fluid box.	にすう 5.1.4 Repla cing waste fluid box
11	FullWasteInkTank	The waste fluid box is full. (Stops operation)	Replace the waste fluid box.	L왕 5.1.4 Repla cing waste fluid box
12	No WasteInkTank	Waste fluid box is removed. (Stops operation)	Install Waste fluid box.	Constant Sector
13	Warning CR Mot. Life	The life CR motor is almost expired. (Continues operation)	Contact MUTOH local dealer.	-

No.	Display	Description	Remedy	Reference
14	Warning Pump Life	The operational life of Pump unit has almost expired. (Continues operation)	Contact your local MUTOH dealer or MUTOH technical support.	-
15	NoMemory DIMM256MB	Memory ran out during data analysis or printing.	Contact MUTOH local dealer.	-

NOTE

- [***] represents the ink color. For details, refer to "2.2.6 Indicator Display". If an error occurs on all ink colors, an error message will be displayed without alphabetic code.
- If the "No Ink" and "No Cartridge" errors occur simultaneously, "No Cartridge" is displayed.

6.2.3 **Data error display and remedies**

This section describes the details of the display when an error message appears and its remedy. A data error appears if data communication between your PC and the printer has failed.

If a data error occurs, the following error message appears on the operation panel of the printer and operation stops.

When the cause of the error is solved, the printer starts operating again.

No.	Display	Description	Remedy	Reference
1	I** Error			27 4.5 Menu setup on the operation panel

NOTE

• "***" in the error message is the code no. that indicates what type of error occurred.

6.2.4 **Command error display and remedies**

This section describes the details of the display when a command error occurs and its remedy. A command error is displayed if a certain failure occurs during analysis of the command data sent from your PC to the printer.

If a command error occurs, the following error message appears on the operation panel of the printer and operation stops.

When the cause of the error is solved, the printer starts operating.

No.	Display	Description	Remedy	Reference
1	MH** Error []	An invalid command has been sent from the computer.	Check that the settings on your PC and the printer are the same.	くまた 4.5 Menu setup on the operation panel

```
NOTE
```

- "***" in the error message is the code no. that indicates what type of error occurred.
- The command code representing the error occurred is indicated in [].
- For the settings on your PC side, refer to the Operating Manual attached with your PC.

6.2.5 **Error requiring a restart**

This section describes the details of the display when an error requiring a restart occurs and its remedy. An error requiring a restart is displayed if a fatal operational failure such as the following occurs.

- When an obstacle which prevents printing occurs
- When a problem occurs with the electrical circuit (PCB, motor, sensor, etc.) of the printer
- When a failure on the printer control program occurs

If an error requiring a restart occurs, the printer stops operating after performing the following operations.

- 1. The drive power automatically shuts down.
- 2. All lamps on the operation panel blink, and the buzzer rings continuously.
- 3. The error message is displayed on the operation panel.

Pressing any key on the operation panel stops the beeping.

For an error requiring a restart, operation will return to normal after removing the cause of the error and restarting the printer.

If the same error continues to be displayed, contact the MUTOH local dealer. Be sure to tell us the code no. of the error message when you contact us.

No.	Display	Description	Remedy	Reference
1	E** Error []	A problem that does not have a remedy.	1. Remove obstacles such as paper scraps in the drive system.	〔3〕6.3 The media is jammed
			2. Confirm that the replaced items are correctly attached.	【2 5.1 Replaci ng consumable components
			3. Turn off the printer power, and turn it on again after more than 10 seconds.	

NOTE

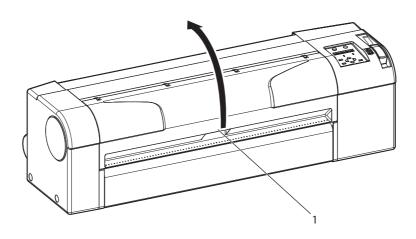
- "***" in the error message is the code no. that indicates what type of error occurred.
- The command code representing the error occurred is indicated in [].
- For the settings on your PC side, refer to the Operating Manual attached with your PC.

6.3 The media is jammed

When the set media is jammed, remove it according to the following procedure.

6.3.1 Roll media

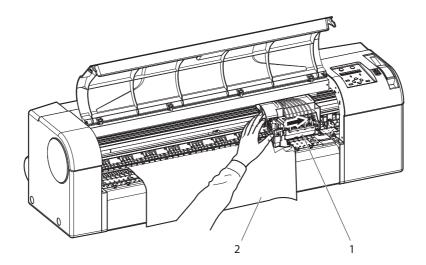
- Turn OFF the power of the printer.
 Tarning the power OFF
- 2. Open the front cover.



No.	Name
1	Front cover

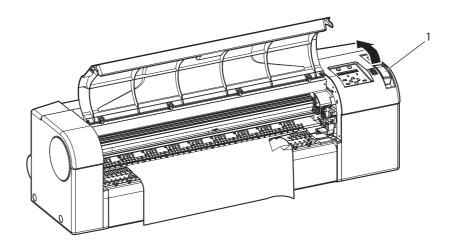
Change the head height to "High".
 C管 4.2.5 Head height adjustment

4. Move the carriage section from the top of the media to the right.



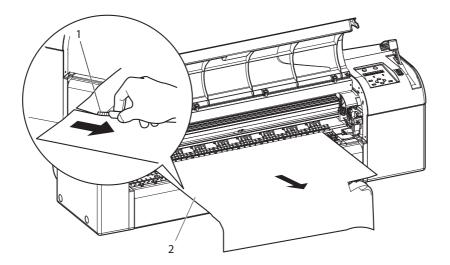
No.	Name
1	Carriage section
2	Roll media

5. Push the media loading lever backward.



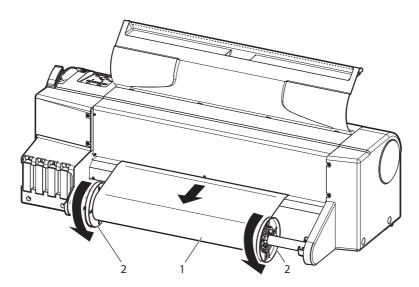
No.	Name
1	Media loading lever

6. Draw the media to your side, and cut the torn part with a razor blade, etc.



No.	Name
1	Razor blade
2	Roll media

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

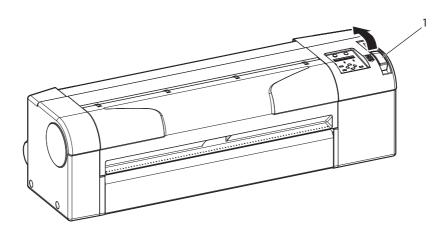


No.	Name
1	Roll media
2	Scroller

- 8. Remove a torn piece of paper if a paper dust or a piece of paper remained inside the printer.
- 9. If errors requiring a restart occur, temporarily turn off the [Power] key, and then turn it on again. XT3.2.1 Turning the power ON

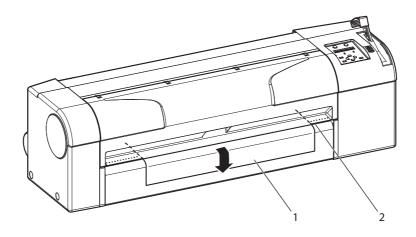
6.3.2 Sheet media

- 1. Turn OFF the power of the printer.
- Push the media loading lever backward.
 Image: Solution of the second secon



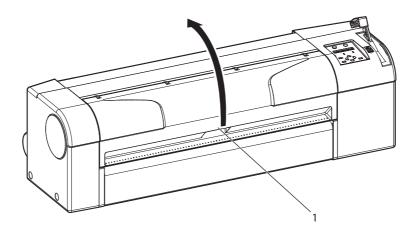
No.	Name	1
1	Media loading lever	

3. Remove a sheet media from the media feed slot.



No.	Name
1	Sheet media
2	Media feed slot

4. Open the front cover and remove a torn piece of paper if a paper dust or a piece of paper remained inside the printer.



No.	Name
1	Front cover

5. If errors requiring a restart occur, temporarily turn off the [Power] key, and then turn it on again. **XP** 3.2.1 Turning the power ON

7 Appendix

This chapter describes each printer specification, Options / Supply, and user support.

7.1 Product specifications

7.1.1 Printer specifications

Items		Specification	
Model name		RJ-901X	RJ-900X
Printing method		On-demand piezo drive system	
Drive system		Firmware servo / DC motor drive	
Media feed system		Multipoint pressurization grid roller system	
Media fixing system		Pressurization roller down system by manual lever	
Media feed/ ejection	Sheet media	Front feed/Front ejection	
	Roll media	Rear feed/Front ejection	
Media		Tracing paper, Color standard paper, Film, Coated paper, Gloss paper	
Outer diameter of the roll media	2 inch	Under 100 mm	Under 150 mm
	3 inch	Under 100 mm	Under 150 mm
Maximum media length	Sheet media	1,200 mm	1,600 mm
	Roll media	50 m	
Maximum media width		610 mm	1,080 mm
Maximum print length	Sheet media	1,180 mm	1,580 mm
	Roll media	18 m	
Maximum print width		604 mm	1,074 mm
Print margin	Sheet media	Front: 3 mm, Back: 17 mm, Left: 3 mm, Right: 3 mm	
	Roll media	Front: 3 mm, Back: 17 mm, Left: 3 mm, Right: 3 mm	
Media cut system		Horizontal auto-cut system	
Head height adjustment		Standard / High (2 step adjustment)	
Range accuracy		 Within ± 0.25 mm or ± 0.1% of the moving distance Use media: Matte film 50 µm Use temperature: 20°C Use humidity: 60% Print mode: High quality 	
Perpendicularity		 For moving distance (500.0 mm), within ±0.1 mm Use media: Matte film 50 μm Use temperature: 20 °C Use humidity: 60% Print mode: High quality 	
CPU		64Bit RISC CPU	
Memory		256MB	
Command		MH-GL, MH-GL/2, MH-RTL (RTL-PASS)	
Font		Vector font (JIS first level, second level, in accordance with 1990 version)	

lte	ems	Spe	cification
Interface		 Ethernet (10BASE-T / 100BASE-TX) USB (Corresponding to USB 1.1 and 	
Ink	Supply system	Tubing supply system from 4 color inde	pendent cartridge
	Cartridge	Black, Cyan, Magenta, Yellow: each col	or 110 ml ± 5 ml
Environmental condition	Operating environment	Temperature: 10 °C to 35 °C Humidity: 20% to 80%, No condensatio	n
	Printing accuracy coverage	Temperature: 15°C to 28 °C Humidity: 40% to 60%, No condensatio	n
	Rate of change	Temperature: Within 2 °C per 1 hour Humidity: Within 5% per 1 hour	
	Archiving environment (Ink unfilled)	Temperature: -10 °C to 60 °C Humidity: 5% to 85%, No condensation	
	Archiving environment (Ink filled)	Temperature: -10 °C to 40 °C Humidity: 20% to 85%, No condensatio	n
Power	Power voltage	AC 90 V to AC 132 V / AC 198 V to AC	C 264 V
	Frequency	50Hz / 60Hz ± 1Hz	
Power	Printing	100 W	
consumption	Idling	Under 35 W	
Outer diameter	Height	357 mm	983 mm (including Stand)
	Width	1,192 mm	1,172 mm
	Depth	504 mm	·
Weight	Printer	30.5 kg	45.0 kg
	Stand	12.5 kg	16.5 kg

7.1.2 **Printing operation specifications**

When dedicated media is used, the setting of printing quality is set according to each media type.

(1) MonoTrac

Setup item	High speed color	High speed black & white	Normal color	Normal black & white	High- quality Color	High- quality black & white
Condition	-	Lines	-	Lines	-	Lines
PrintReso. (dpi)	-	HS360	-	360	-	720
Direction	-	BiDir	-	BiDir	-	UniDir
ThinOut (Black)	-	100%	-	100%	-	70%
InkDryTimer	-	30s	-	30s	-	60s
Stiffness	-	Soft	-	Soft	-	Soft

(2) Col.Trac

Setup item	High speed color	High speed black & white	Normal color	Normal black & white	High- quality Color	High- quality black & white
Condition	Lines	Lines	Lines	Lines	Lines	Lines
PrintReso. (dpi)	360	360	720	720	1440	1440
Direction	BiDir	BiDir	BiDir	BiDir	BiDir	BiDir
ThinOut (Black)	100%	100%	70%	70%	60%	60%
ThinOut (Color)	70%	-	40%	-	40%	-
InkDryTimer	60s	10s	120s	90s	60s	60s
Stiffness	Normal	Normal	Normal	Normal	Normal	Normal

(3) Plain

Setup item	High speed color	High speed black & white	Normal color	Normal black & white	High- quality Color	High- quality black & white
Condition	Lines	Lines	Lines	Lines	Lines	Lines
PrintReso. (dpi)	HS360	HS360	360	360	720	720
Direction	BiDir	BiDir	BiDir	BiDir	UniDir	UniDir
ThinOut (Black)	100%	100%	100%	100%	70%	70%
ThinOut (Color)	100%	-	60%	-	40%	-
InkDryTimer	Os	Os	Os	Os	0s	Os
Stiffness	Normal	Normal	Normal	Normal	Normal	Normal

(4) Film

Setup item	High speed color	High speed black & white	Normal color	Normal black & white	High- quality Color	High- quality black & white
Condition	Lines	Lines	Lines	Lines	Lines	Lines
PrintReso. (dpi)	360	720	720	1440 Position specified	1440	1440
Direction	BiDir	BiDir	BiDir	BiDir	BiDir	BiDir
ThinOut (Black)	100%	100%	100%	40%	100%	100%
ThinOut (Color)	100%	-	50%	-	40%	-
InkDryTimer	60s	60s	60s	90s	90s	90s
Stiffness	Normal	Normal	Normal	Normal	Normal	Normal

(5) Coat

Setup item	High speed color	High speed black & white	Normal color	Normal black & white	High- quality Color	High- quality black & white
Condition	Lines	Lines	Lines	Lines	Photo	Lines
PrintReso. (dpi)	360	360	720	720	1440	1440
Direction	BiDir	BiDir	BiDir	BiDir	BiDir	BiDir
ThinOut (Black)	100%	100%	70%	70%	90%	90%
ThinOut (Color)	100%	-	60%	-	60%	-
InkDryTimer	Os	Os	Os	Os	0s	Os
Stiffness	Normal	Normal	Normal	Normal	Normal	Normal

(6) Photo

Setup item	High speed color	High speed black & white	Normal color	Normal black & white	High- quality Color	High- quality black & white
Condition	Photo	Lines	Photo	Lines	Photo	Lines
PrintReso. (dpi)	720	720	1440	1440	2880 Position specified	2880 Position specified
Direction	BiDir	BiDir	BiDir	BiDir	BiDir	BiDir
ThinOut (Black)	85%	85%	75%	75%	90%	90%
ThinOut (Color)	55%	-	60%	-	50%	-
InkDryTimer	Os	Os	Os	Os	Os	Os
Stiffness	Normal	Normal	Normal	Normal	Normal	Normal

7.2 Interface specification

This section describes each type of interface specifications supported by this product.

7.2.1 USB interface specification

(1) Interface specification

Item	Specification
Specification	Universal Serial Bus Specifications Revision 2.0 Universal Serial Bus Device Class Definition for Printing Devices Version 1.1
Data format	NRZI
Transfer rate	480Mbps (High speed Device)
Connector	USB Series B
Allowable cable length	3 m
Connector pin No.	

$(2)\mbox{USB}$ interface table pin No. and signal

Pin No.	Signal name	Input/Output	Function
1	VCC	-	Cable power
2	- Data	BiDir	Data
3	+ Data	BiDir	Data
4	Ground	-	Cable round

7.2.2 Network interface specification

Item	Specification
Network type	Ethernet IEEE802.3
Network I/F	10BASE-T / 100BASE-TX Automatic transfer type (RJ-45 Connector twist pair cable) MDI/MDI-X Automatic transfer
Corresponding protocol	ТСР/ІР

7.3 **Options/Supply list**

For more information about the options and the supply items, contact MUTOH local dealer.

Setup menu diagram

For details of the Setup menu configuration diagram, refer to the followings.

NOTE

• For details of each setup item, refer to followings:

13 [4.5.1 Setup menu items]

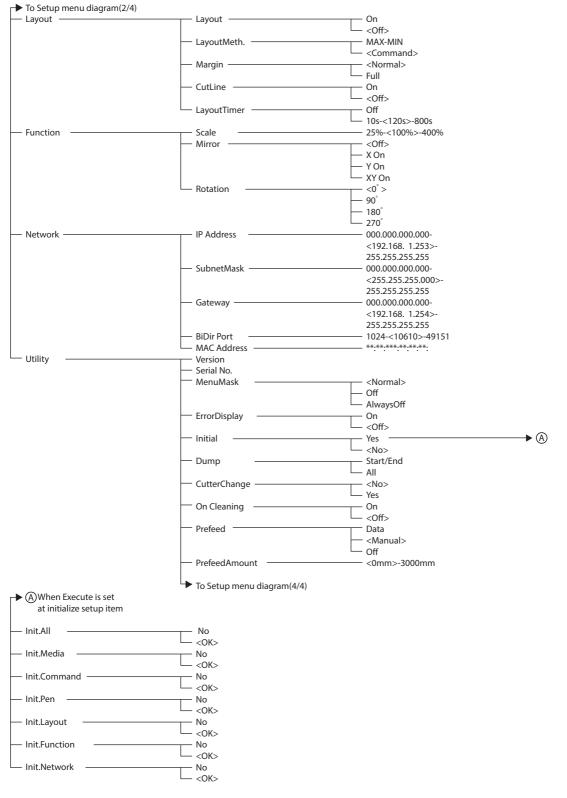
• The <> parts in each list are factory default settings (initial values).

TestPrint	Setup NozzleChck	
	— Palette	
	Mainte.	
MediaSet	— Media —	MonoTrac
		Col.Trac
		Plain
		Film
		Photo
		User1
		User2
		User3
	CutSheetSize	User4
	Culoneeloize	- <vert.></vert.>
		Hori.
		Auto. 2
	— Mediacheck ———	
	Mediacheok	Off
	— TopFeed ————	
	— ManageRoll	
		— Roll1
		- Roll2
		- Roll3
To Setup menu diagram(2/4)		Roll4
10 Setup menu diagram(2/4)	Cut RollTop	
When dedicaded media is set		
Effect		Fine&Fog
	A-S. Fine&Wave/B-S. Fine&Wav	/e
RollCut		
	└── Off	
CutMethod		
	<2steps Hi> *1	
	- 3steps Lo	*1:Default value vary by printing media.
	└── 3steps Hi	 Photo : 2steps-High
PF	Initial Print	 Other media : 2steps-Low
	- Initial Change	
	Confirm Print	
	Micro Print	
	└── Micro Change ──── PatternA/PatternB/PatternC	
AdjustPrint		
${}^{igodol{B}}$ When user media is set in med		
Condition	<pre></pre>	
	Photo	
PrintReso.	HS360dpi	
	— 360dpi	
	— <720dpi> — 1440dpi	
Di i i	└── 2880dpi ──┬── UniDir	
Direction	<bidir></bidir>	
ThinOut(Black)	5%~<100%> 5%~<100%>	
ThinOut(Color)		
Stiffness	Soft	
	SuperSoft	
	Frame	
InkDryTimer RollCut	<03>-2703-30003	
noiicut	Off	
CutMethod		*1:Default value vary by printing media.
	2steps Hi> *1	Photo : 2steps-High
	— 3steps Lo	Other media : 2steps-Low
	- 3steps Hi	
PF	— Initial Print	
	— Initial Change	
	— Confirm Print	
	— Micro Print	
	Micro Change	
AdjustPrint	PatternA/PatternB/PatternC	
	L Initial	
\mathbb{O}_{When} the off is set in media in	itial item	
MediaWidth	150mm-<594mm>-610mm(RJ-9 150mm-<841mm>-1143mm(RJ	

Setup menu diagram (2/4)

To Setup menu diagram(1/4)	O a manufacture of		
— Command ————————————————————————————————————	Command		
	- Origin		
	Chight		
		L 0.010mm	
	- Position		
		├ LL	
		└── Full	
	- Terminator	Normal	
		Special>	
	— ImageReso. ————	300dpi	
		— <360dpi>	
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		— 12000pi — 1440dpi	
	- OnlineTimer	Off	
	Onmernner	2s-<30s>-800s	
	— Merge———		
		Mix	
	Quality		
	<i>,</i>	Filln	
- PenSetup	PenPrior —	– Panel – – – – – – – – – – – – – – – – – – –	► (A
		Command>	
	PenTone		
 To Setup menu diagram(3/4) When the panel is set in the priority item 	ə pen		
► (A) When the panel is set in the	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm		
AWhen the panel is set in the priority item	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm		
AWhen the panel is set in the priority item	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm		
AWhen the panel is set in the priority item	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm		
AWhen the panel is set in the priority item	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm		
AWhen the panel is set in the priority item	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm		
AWhen the panel is set in the priority item	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.60mm 0.70mm 0.80mm 1.00mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100%		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set)		
 When the panel is set in the priority item Pen0Width-Pen15Width — Pen0Color-Pen15Color — 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm		
When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone ——	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When clor is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm		
When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone ——	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm		
When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone ——	0.10.mm 0.13mm 0.18mm 0.25mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm 0.35mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.25mm 0.25mm 0.50mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.13mm 0.25mm 0.25mm 0.50mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.25mm 0.35mm 0.50mm 0.50mm 0.70mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.25mm 0.50mm 0.60mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.60mm 0.70mm 0.80mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— All Width — 	0.10.mm 0.13mm 0.18mm 0.25mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm 0.25mm 0.50mm 0.80mm 0.80mm 0.80mm 0.80mm 0.90mm 1.00mm		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— 	0.10.mm 0.13mm 0.18mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.13mm 0.13mm 0.25mm 0.25mm 0.50mm 0.50mm 0.50mm 0.60mm 0.90mm 1.00mm 0.90m		
 When the panel is set in the priority item Pen0Width-Pen15Width —— Pen0Color-Pen15Color —— Pen0Tone-Pen15Tone —— All Width — 	0.10.mm 0.13mm 0.18mm 0.25mm 0.25mm 0.35mm 0.50mm 0.60mm 0.70mm 0.80mm 0.90mm 1.00mm 0/1/2/3/4/5 - 255 (When color is set) 0%/10%/20% - 100% (When Black & White is set) 0.10mm 0.13mm 0.18mm 0.25mm 0.25mm 0.50mm 0.80mm 0.80mm 0.80mm 0.80mm 0.90mm 1.00mm		

Setup menu diagram (3/4)



Setup menu diagram (4/4)

➡ To Setup menu diagram(3/4) Utility	- AutoCL	───────────────────────────────── ▲
- Otility	AdioCL	Printing Time
		Before Print
	- Spitting	
	Opitality	└── On Media ──── D
	— Take-Up ————	<off></off>
		On
	Ink Capacity	
	init oupdoity	220ml
	Language	Japanese/ <english>/German/French/Italian /Spanish/Duch/Portuguese</english>
Consumption —	Remain Ink K	
	Remain Ink C	
	- Remain Ink C	
	— Remain Ink M — — — — Remain Ink Y — — — — — — — — — — — — — — — — — —	
	- Remain Roll	0% - 100%
	- RemainWasteTank	0%/100%/
	RemainCutterLif	
Cleaning	- Short	0/8 - 100/8
	— Normal	
	- Long	
	Longer	
AWhen "Wating Time"is set at AutoCL 0min - <360min> - 1440min	Time	<pre> <short> </short></pre>
		Long
BWhen "Printing Time"is set at AutoCL		Long
<pre></pre>	Time	
		Normal
		Long
► ⓒ When "Before Print"is set at AutoCL		
0"		
- <off> On</off>	Time	Ohart
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► D When "On" or "On Media" is set at Spitting		— Normal — Long
Pass Count		

ΜυτοΗ