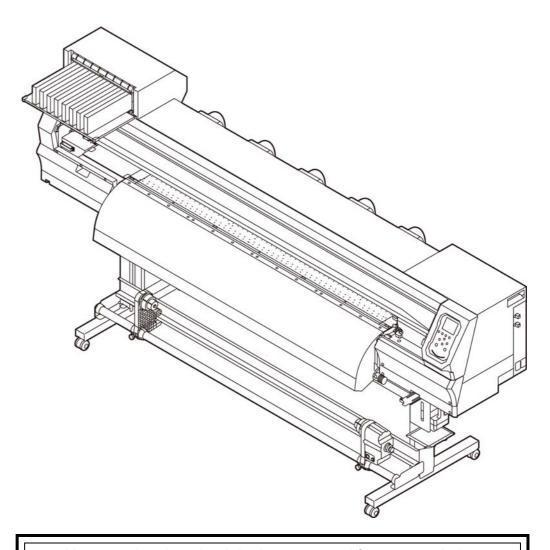
Printer Cutter

CJV300-130/160

BS INK MODEL

OPERATION MANUAL



You can also download the latest manual from our website.

MIMAKI ENGINEERING CO., LTD.

https://mimaki.com/

Table of Contents

Foreword	Vii
DISCLAIMER OF WARRANTY	vii
Requests	
FCC Statement (USA)	
Interference to televisions and radios	
About usable ink	
Safety Precautions	
<u> </u>	
Symbols	
Warning labels	XI
Chapter 1 Before Use	
Chapter i Delore OSE	
Moving This Machine	1_2
Where to Install This Machine	
Working Environmental Temperature	
Moving This Machine	
Names of Parts and Functions	
Front Side of the Machine	
Rear Side and Right Side of the Machine	1-4
Operation Panel	
Media sensor	
Carriage	
Cutter blade and slot for cutting	
Capping station	
Pinch Rollers and Grit Rollers	
Connecting Cables	
Connecting USB2.0 Interface Cable	1-8
Connecting the power cable	1-8
Inserting ink cartridges	1-9
Caution in handling of ink cartridges	
Media	
Usable sizes of media	
Caution in handling of medias	
Menu mode	. 1-11
Chapter 2 Pecie Operations	
Chapter 2 Basic Operations	
Worldow of printing	2.2
Workflow of printing	2-2
Turning the Power ON/OFF	
Turning the Power ON	2-3
Turning the Power OFF	2-3
Setting a Media	2-4
Adjusting the Head Height	
Adjusting the Position of the Pinch Roller According to the State	
of a Media	2_5
Maximum Print Area/Cut Area	
Notes When Using media Holder	
Setting a roll media	
Setting the pinch roller pressure	2-11

Take-up device	. 2-1	12
Setting leaf media	. 2-1	13
Changing the printing origin		
Preparing for the Heaters	.2-1	14
Changing the Temperature Settings for the Heaters	2-1	14
Test Printing	.2-1	15
Test Printing		
Perform test printing with the normal test pattern		
Perform test printing with the test pattern for checking white ink		
Head Cleaning		
About head cleaning		
Perform head cleaning depending on the test printing result		
Setting of Media Correction		
Setting of Media Correction		
If the Positions of Dots Shift		
Printing Data		
Starting a Printing Operation		
Stopping a Printing Operation		
Deleting Received Data (Data Clear)		
Cutting a media		
Workflow of cutting		
<u> </u>		
Installing Tools		
How to Install a Ballpoint Pen		
·		
Setting the cutting conditions		
About the Cut Conditions		
Select the tool condition		
Set the Cut Conditions		
Test Cutting		
Cutting Data		
Setting the origin		
Start cutting		
Stopping a Cutting Operation (Data Clear)		
Removing the Cutter Unit Temporarily		
Cutting a media	. 2-2	21
Chapter 3 Setup		
About SETUP MENU	3	_2
SETUP MENU table		
Register the optimal print conditions to match the use		
Setting of Media Correction		
If the Positions of Dots Shift		
Setting the HEATER		
Setting of Logical Seek		
Setting of Logical Seek		
Setting of Dryling Time		
Setting of Vacuum Fan		
Setting of Vacuum Fair		
Setting of MAPS		
Setting Auto Cleaning		
Setting Interval wiping		
Columny interval impung	0	J

About MACHINE SETUP MENU	
MACHINE SETUP MENU table	3-11
Setting a AUTO Power-off	3-12
Setting Take-up unit	
Setting Top Blower	3-12
Setting the Display of Media Residual	3-13
Setting the Display of Media Detection	3-13
When using 600 cc cartridge	3-14
Setting a LANGUAGE	3-16
Setting Time	3-16
Setting Unit (Temperature/ Length)	
Setting a KEY BUZZER	3-17
Setting the CONFIRM. FEED	
Setting the SPACE FEED MODE	
Set the network	
Setting event mail function	3-18
Initializing the Settings	
About NOZZLE CHECK MENU	
INFORMATION MENU table	3-23
Printing Check Flow	3-24
Printing Operations at "Nozzle Missing" Judgment and Error	
Occurrence	
Setting the Printing Check	
Setting the NOZZLE RECOVERY	
Setting the Judgement Condition	3-25
About INFORMATION MENU	
INFORMATION MENU table	3-27
Displaying the Information	
Displaying the Information Chapter 4 Cutting Funcion	3-27
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark	3-27
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data	3-27 4-2 4-2
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode	3-27 4-2 4-2 4-2
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks	3-27 4-2 4-2 4-2
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks	4-2 4-2 4-2 4-2 4-6
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU	4-2 4-2 4-2 4-6 4-8
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table	4-2 4-2 4-2 4-6 4-8 4-9
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE	4-2 4-2 4-2 4-6 4-8 4-9
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table. Setting the CUT MODE Perform multiple Cuttings (Copy function)	4-2 4-2 4-2 4-6 4-8 4-10
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU	4-2 4-2 4-2 4-6 4-8 4-10 4-10
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT	3-27 4-2 4-2 4-6 4-8 4-10 4-11
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function)	3-27 4-2 4-2 4-2 4-6 4-8 4-10 4-11 4-11
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function)	3-27 4-2 4-2 4-6 4-8 4-10 4-11 4-11 4-13
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function). Other SETUP SUB MENU SETUP RESET	3-27 4-2 4-2 4-6 4-8 4-10 4-11 4-11 4-13 4-13
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function) Other SETUP SUB MENU SETUP RESET Maintenance Function	3-27 4-2 4-2 4-2 4-6 4-8 4-10 4-11 4-11 4-13 4-13
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function) Other SETUP SUB MENU SETUP RESET Maintenance Function Maintenance of Mark Sensor	3-27 4-2 4-2 4-2 4-6 4-10 4-10 4-11 4-13 4-13 4-15
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function) Other SETUP SUB MENU SETUP RESET Maintenance Function Maintenance of Mark Sensor Perform SAMPLE CUT to Find out the Cause of Cutting Error.	3-27 4-2 4-2 4-6 4-6 4-10 4-11 4-11 4-13 4-13 4-15 4-15
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function) Other SETUP SUB MENU SETUP RESET Maintenance Function Maintenance of Mark Sensor Perform SAMPLE CUT to Find out the Cause of Cutting Error. Cutting a Medium into Multiple Pieces with a Certain Length	3-27 4-2 4-2 4-2 4-6 4-8 4-10 4-11 4-11 4-13 4-13 4-15 4-15 4-17 4-17
Chapter 4 Cutting Funcion Cut Out Data with Registration Mark The Flow of Cutting out the Registered Data Enter the registration mark detection mode Precautions in inputting data with registration marks Setting of Detecting the Registration Marks About CUTTING MENU Cutting MENU table Setting the CUT MODE Perform multiple Cuttings (Copy function) SETUP SUB MENU Setting the DIVISION CUT Make the media without uncut area (OVER CUT function) Other SETUP SUB MENU SETUP RESET Maintenance Function Maintenance of Mark Sensor Perform SAMPLE CUT to Find out the Cause of Cutting Error.	3-27 4-2 4-2 4-2 4-6 4-8 4-10 4-11 4-11 4-13 4-14 4-15 4-17) 4-18

Chapter 5 Maintenance

Maintenance	5-∠
Precautions for Maintenance	5-2
About Cleaning Solution	
Cleaning the Exterior Surfaces	
Cleaning the Platen	
Cleaning the Media Sensor	
Cleaning the Media Press	
Replacing the exhaust BOX filter or exhaust BOX	
Replace the blow down fan filter.	
Replace the CP pad set.	
Replacing the pen line rubber or pen line sponge	
Cleaning and replacing the pinch roller	
About MAINTENANCE MENU	
MAINTENANCE MENUs at-a-glance	
Maintaining the Capping Station	5-9
Cleaning the Wiper and Cap	
Washing the Head Nozzle	
Washing the Ink Discharge Passage	
When the Machine Is Not Used for a Long Time	
Cleaning the Ink Head and the Area around It	5-13
Nozzle Recovery Function	5-14
Reset the set value	5-15
Automatic Maintenance Function	5-15
Setting the Refreshing Intervals	5-16
Setting the Tube Wash Intervals	
Setting the Cleaning Intervals and Type	
Fill up lnk	5-17
White Ink Maintenance	5-17
Replacing consumables	5-18
Replacing the wiper	5-18
If a Waste Ink Tank Confirmation Message Appears	5-18
Replacing the waste ink tank before the waste ink tank	
confirmation message is displayed	
Replacing the Cutter Blade	
Replacing and Adjusting the Cutter Blade	5-21
Replacing the cutter	
Adjusting the Cutter Blade	
Replacing the cutter other than supplied one	
Adjusting blade edge of cutter other than supplied one	5-22
Chapter 6 Troubleshooting	
Troubleshooting	6-2
Power does not turn on	
The machine does not start printing	
Media get jammed / media is soiled	
The heater's temperature will not rise to the set level	
Image quality is poor	
Nozzle is clogged	
Ink cartridge warning appears	

6-4 6-5 6-5 6-8
7-2
7-2
7-2
7-3
7-5
7-6
7-7

Foreword

Congratulations on your purchase of MIMAKI color ink jet printer "CJV300-130/160BS INK MODEL" .

"CJV300-130/160BS INK MODEL" is a color inkjet printer that can print on 1.3m or 1.6m-width media with BS ink(BS3/BS4) realizing high image quality.

DISCLAIMER OF WARRANTY

THIS LIMITED WARRANTY OF MIMAKI SHALL BE THE SOLE AND EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, AND MIMAKI NEITHER ASSUMES NOR AUTHORIZES DEALER TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY OR MAKE ANY OTHER WARRANTY OR MAKE ANY OTHER WARRANTY IN CONNECTION WITH ANY PRODUCT WITHOUT MIMAKI'S PRIOR WRITTEN CONSENT.

IN NO EVENT SHALL MIMAKI BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR LOSS OF PROFITS OF DEALER OR CUSTOMERS OF ANY PRODUCT.

Requests

- This Operation manual is describing the operations and maintenance of "Color inkjet printer CJV300-130/ 160BS INK MODEL" (called as this machine hereafter)
- Please read and fully understand this Operation Manual before using the printer. It is also necessary to keep this Operation Manual in an easy to reach location.
- Make arrangements to deliver this Operation Manual to the person in charge of the operation of this printer
- This manual has been carefully prepared for your easy understanding, however, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.
- The contents of this Operation Manual are subject to change for improvement without notice.
- In the case where this Operation Manual should be illegible due to destruction or breakage, contact our sales office.
- You can also download the latest manual from our website.

FCC Statement (USA)

This machine 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 printer is operated in a commercial environment. this machine generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications.

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

The limits stipulated by FCC rules might be exceeded if Mimaki-recommended cable is not used for connections of this device.

To prevent this, use of Mimaki-recommended cable is essential for connecting this machine.

Interference to televisions and radios

The printer described in this manual generates high frequency when operating.

This machine can interfere with the reception of radios and televisions if set up or used under improper conditions.

This machine is not guaranteed against any damage to specificpurpose radios and televisions.

If you feel that this machine might be causing reception interference with your radio or television, check by turning this machine's power switch on and off. If the reception interference disappears when the printer's power is turned off, it is likely that this machine is the cause of the interference.

If this is the case, try to eliminate it by performing any or a combination of the following procedures.

- Change the direction of the receiving antenna of your radio/ television until there is no reception interference.
- Move the receiver away from the product.
- Plug the power cord of this machine into an outlet which is isolated from power circuits connected to the television set or radio.

About usable ink

You can use BS ink(BS3/BS4) for this machine.

Reproduction of this manual is strictly prohibited. All Rights Reserved.Copyright © 2016 MIMAKI ENGINEERING Co., Ltd.

Safety Precautions

Symbols

Symbols are used in this Operation Manual for safe operation and for prevention of damage to the machine. The indicated sign is different depending on the content of caution.

Symbols and their meanings are given below. Please follow these instructions as you read this manual.

Examples of symbols

Meaning



Failure to observe the instructions given with this symbol can result in death or serious injuries to personnel. Be sure to read it carefully and use it properly.



Failure to observe the instructions given with this symbol can result in injuries to personnel or damage to property.



Important notes in use of this machine are given with this symbol. Understand the notes thoroughly to operate the machine properly.



Useful information is given with this symbol. Refer to the information to operate the machine properly.



Indicates the reference page for related contents.



The symbol " \(\sum \) " indicates that the instructions must be observed as strictly as the CAUTION instructions (including DANGER and WARNING instructions). A sign representing a precaution (the sign shown at left warns of hazardous voltage) is shown in the triangle.



The symbol " \(\int \) " indicates that the action shown is prohibited. A sign representing a prohibited action (the sign shown at left prohibits disassembly) is shown in or around the circle.



The symbol " " indicates that the action shown must be taken without fail or the instructions must be observed without fail. A sign representing a particular instruction (the sign shown at left instructs to unplug the cable from the wall outlet) is shown in the circle.

Warning for Use

\wedge

WARNING



- The set of power cables provided with this machine is for use with this machine only, and cannot be used with other electrical devices. Do not use any power cables other than the ones provided with the machine.
 Failure to observe those instructions may result in fire or electric shocks.
- Do not use this machine in an environment where humidity is high or the machine may get wet. Using the machine under such environment may result in fire or electric shock, or cause malfunction.
- Use of the machine under an abnormal condition where it produces smoke or strange smell can result in fire or electric shocks. If such an abnormality is found, be sure to turn off the power switch immediately and unplug the cable from the wall outlet. Check first that the machine no longer produces smoke, and contact your distributor or a sales office of MIMAKI for repair.
- Never repair your machine by yourself since it is very dangerous for you to do so.
- Never disassemble or remodel the main unit of the machine or the ink cartridge. Disassembly or remodeling can result in an electric shock or breakdown of the machine.
- Take care that no dust or dirt sticks to Media Transfer Surface heaters. Dust and dirt sticking heaters can cause fire.
- Do not use extension cords. Doing so may result in fire or electric shocks.
- Keep the power plug prong clear of any foreign object such as a piece of metal. Failure to do so may result in a fire or electric shocks.
- Do not plug too may leads into a single socket. Doing so may result in fire or electric shocks.
- Do not use the machine if the power cord or plug is damaged. Using the machine with damaged power cord may result in fire or electric shocks. Contact your service representative for replacement cord.
- Do not handle the power plug with wet hands. Doing so may result in electric shocks.
- Grasp by holding the plug itself when removing the power plug from wall outlet, and never hold by the cord. Holding and pulling the cord may damage the cord, leading to fire or electric shocks.
- In case of ink leakage, please turn off the main power, unplug the power cable and contact your local distributor, our sales office, or service center



Hazardous Moving Parts

- · Keep Fingers and Other Body Parts Away
- If a foreign object such as a small piece of metal or a liquid such as water gets inside the machine, turn off the machine and unplug the power cord immediately, then consult your service representative. Continuing to use the machine without proper maintenance or repair may result in fire or electric shocks.



- Do not use a flammable spray or solvent inside or around the machine. Doing so may result in fire or electric shocks.
- Do not place a vase, flower pot, water glass, container with liquid such as water or chemicals inside, or small metallic object near or on top of this machine. Liquid or foreign object may get inside the machine, leading to fire or electric shocks.

Precautions in Use



CAUTION

Handling of the power cable



- Connect to a socket-outlet with determinate polarity.
- · For Inlet, be sure to supply power from the outlet of the same voltage.
- For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- · Unplug the cord from the wall outlet and remove dust from the power plug periodically, at least once a year. Failure to do so may result in fire or electric shocks.
- · Do not use the machine unless it is connected to a power supply that satisfies the displayed voltage condition.
- · Check the voltage of the wall outlet and the capacity of the circuit breaker before you plug the power cords. Plug each power cord to different outlet that has independent circuit breaker. If you plug more than one power cord to wall outlets that share the same circuit breaker, the power may be cut off by the breaker.

Handling of ink



- · Before using ink and cleaning solution, be sure to read the Safety Data Sheet (SDS).
- · Keep ink away from an open flame. Also keep the room well ventilated when you use or handle ink.
- · If you get ink in your eyes, immediately wash your eyes with a lot of clean water for at least 15 minutes. In doing so, also wash eyes to rinse ink away completely. Then, consult a doctor as soon as possible.
- · If anyone drinks ink by mistake, keep him or her quiet and see a doctor immediately. Do not allow him or her to swallow the vomit.

Then contact the emergency number written in SDS.

- · If you inhale a lot of vapor and feel bad, immediately move to a location of fresh air and keep yourself warm and quiet. Then, consult a doctor as soon as possible.
- · Store ink cartridges in a place that is out of the reach
- · If the ink adheres to your skin, use a large amount of water and soap or special detergent for skin to remove the ink.

Power supply



- Leave the breaker turned ON.
- · Do not turn off the main power switch on the right side of this machine.

Heater



- · Do not spill liquid on the Media Transfer Surface as this may cause failure of the heater or firing.
- Do not touch Media Transfer Surface heaters with bare hand while it is hot; otherwise, you can get burned.

Note on maintenance



· When handling ink and or maintenance cleaning solution, pay close attention to ventilation and be sure to wear the included safety glasses and gloves



Gloves are consumables. Use commercially-available ones if you lose or use up the supplied gloves.



· Keep ink away from an open flame. Also keep the room well ventilated when you use or handle ink.

CAUTION

Caution with cutters



- · Do not touch the cutter blade, which is very sharp.
- · Do not shake or swing the cutter holder; otherwise, the blade may come off.

Be careful with the movable parts



· Do not touch the rolling grit roller; otherwise, you may hurt your fingers or tear off your finger nails.



- · Keep your head and hands away from any moving parts during cutting (plotting) operation; otherwise, you may get your hair caught in the machine or get injuries.
- · Wear proper clothes. (Do not wear loose-fit clothes or accessories). Bind a long hair.

CAUTIONS and NOTES

Warning

Handling of ink cartridges

- The safety evaluation of this machine assumes that the ink recommended by this company is used. For safe usage of this machine, use the ink recommend by this company
- Never refill the ink pack and white ink cartridge with ink. Refilled ink cartridge can cause a trouble. Remember that MIMAKI assumes no responsibility for any damage caused by the use of the ink cartridge replenished with ink.
- If the ink cartridge is moved from a cold place to a warm place, leave it in the room temperature for three hours or more before usina it.
- Open the ink cartridge just before installing it in the machine. If it is opened and left for an extended period of time, normal printing performance of the machine may not be ensured.
- Make sure to store ink cartridges in a cool and dark place.
- Store ink cartridges and waste ink cartridge in a place that is out of the reach of children.
- Be sure to thoroughly consume the ink in the ink cartridge, once it is opened, within three months. If an extended period of time has passed away after opening the cartridge tank, printing quality would be poor.
- Neither pound the Eco-cartridge nor shake it violently, as doing so can cause leakage of ink.
- Do not touch or stain the contacts of the ink cartridge, as doing so may cause damage to the print circuit board.
- Consult your sales or service representative for proper disposal of ink cartridge, ink pack, and waste ink.
- When you dispose them by yourself, follow the regulations stipulated by the industrial waste disposer or the country or region you live in.
- Make sure that you shake the white and silver ink cartridges before printing.

Clump lever

Never raise the lever during printing. Raising the lever will abort printing.

Protection of media from dust

- Store media in a bag. Wiping off dust accumulated on media will adversely affect the media due to static electricity.
- When leaving the workshop after the working hours, do not leave any media on the roll hanger. If any media is left on the roll hanger, it can get dusty.

/ Warning

Disposition of this machine

 Consult your sales or service representative for proper disposal of this machine. Otherwise, commission an industrial waste disposal company.

Periodic replacement parts

 Some parts of this machine must be replaced with a new one periodically by service personnel. Be sure to make a contract with your distributor or dealer for After sale service to ensure a long life of your machine.

Notes on maintenance

- It is strongly recommended to use the machine in a room that is not dusty.
- Keep the front cover closed even when the machine is not printing. If not, dust can accumulate on the nozzles in the heads.
- Dust in the heads can also cause drops of ink to fall suddenly down on the media during printing. In such a case, be sure to clean up the heads. (P.5-13)
- When cleaning the ink-station or the heads, make sure to wear the attached gloves. Further, when the solvent ink is used, it is necessary to wear the attached safety glasses.
- Perform wiping (removal of dust and paper powder) of the capping station and wiper frequently.

Handling of media

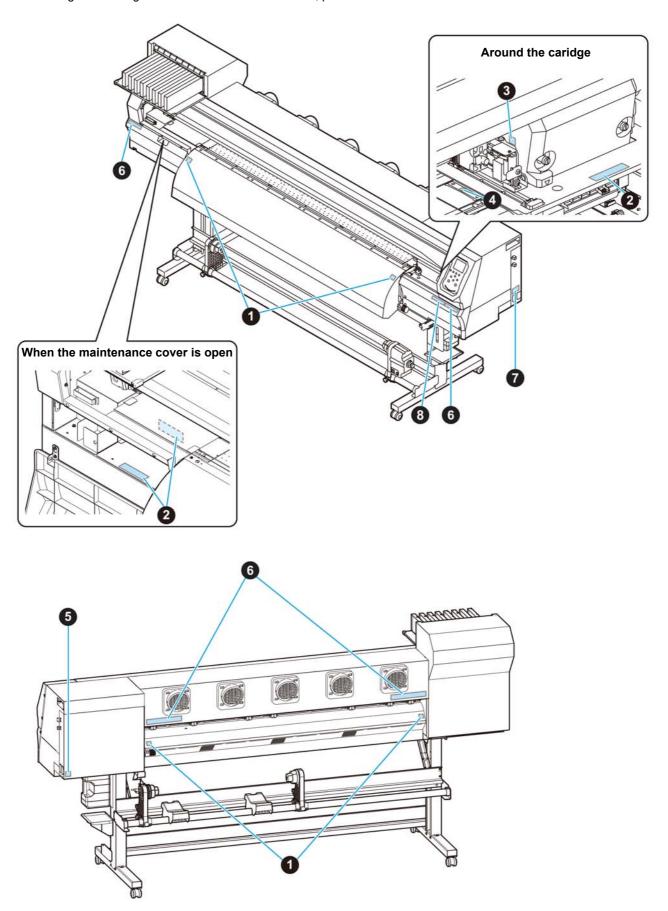
- Use media recommended by MIMAKI to ensure reliable, highquality printing.
- Set the heater temperature to meet the characteristics of the media. (Model with a built-in heater)
- Set the temperature of the Pre-heater, Print heater and Post-heater according to the type and characteristics of the media used. Automatic temperature setting can be made on the operation panel by setting the profile on the dedicated RIP. For setting on the RIP, refer to the instruction manual for your RIP.
- Pay attention to the expansion and contraction of the media.
 Do not use media immediately after unpacking. The media can be affected by the room temperature and humidity, and thus it may expand and contract. The media have to be left in the atmosphere in which they are to be used for 30 minutes or more after unpacked.
- Do not use curled media.
- The use of curled media can not only cause a media jam but also affect print quality.
- Straighten the sheet of media, if significantly curled, before using it for printing. If a regular-sized coated sheet of media is rolled and stored, the coated side has to face outside.
- Do not leave the media with the heater ON for a long time.

Cautions on Installation

CAUTION A place exposed to direct On an inclined surface sunlight A place exposed to direct air flow from an air conditioner A place that vibrates or the like. Around a place where fire A place where temperature or humidity varies significantly is used •Use the machine under the following environmental conditions: Operating environment: 20 to 30 °C (68 to 86 °F) 35 to 65 % (Rh)

Warning labels

Warning labels are stuck on the machine. Be sure to fully understand the warning given on the labels. If a warning label is illegible due to stains or has come off, purchase a new one from a distributor or our sales office.



No.	Reorder	Label
1	M903239	
2	M903330	
3	M903405	
4	M906144	
5	M907935	
6	M905811	本警告
7	M906031	This unit has two power cords. For removal of all power, disconnects both cords. Cet appareil a deux cordons secteur. Pour le mettre hors tension, débranchez ces deux cordons secteur. 本機は、2本の電源ケーブルがある。電源をオフする場合、 2本とも抜くこと。
8	M905935	A CAUTION

Chapter 1 Before Use



This chapter

describes the items required to understand before use, such as the name of each part of the machine or the installation procedures.

Moving This Machine	1-2
Where to Install This Machine	. 1-2
Working Environmental Temperature	. 1-2
Moving This Machine	. 1-2
Names of Parts and Functions	1-3
Front Side of the Machine	. 1-3
Rear Side and Right Side of the Machine	. 1-4
Operation Panel	. 1-5
Media sensor	. 1-7
Carriage	. 1-7
Cutter blade and slot for cutting	. 1-7
Capping station	. 1-7
Pinch Rollers and Grit Rollers	. 1-7

Connecting Cables	1-8
Connecting USB2.0 Interface Cable	1-8
Connecting the power cable	1-8
Inserting ink cartridges	1-9
Caution in handling of ink cartridges	
Media	1-10
Usable sizes of media	1-10
Caution in handling of medias	1-10
Menu mode	1-11

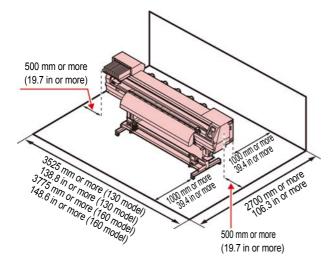
Moving This Machine

Where to Install This Machine

Secure a suitable installation space before assembling this machine.

The place of installation must have enough space for not only this machine itself, but also for the printing operation.

Model	Width	Depth	Height	Gross weight
CJV300-130	2525mm	700mm	1392mm	157kg
BS INK MODEL	(99.4in)	(27.6in)	(54.8in)	(346.1lb)
CJV300-160	2775mm	700mm	1392mm	168kg
BS INK MODEL	(109.3in)	(27.6in)	(54.8in)	(370.4lb)



Working Environmental Temperature

Use this machine in an environment of 20 to 30°C to ensure reliable printing.

Moving This Machine

Move this machine according to the following steps when this machine needs to be moved on the same step-free floor



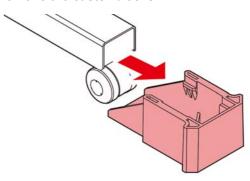
- When the machine is moved to any place other than on the same step-free floor, contact your distributor or our service office.
 - If you move it by yourself, failure or damage may occur. Be sure to request your distributor or our service office to move this machine.



- When moving this machine, take care that it does not receive a significant impact.
- Be sure to lock the casters after moving of this machine.



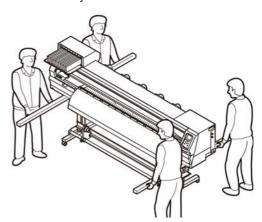
Remove the caster blocks.





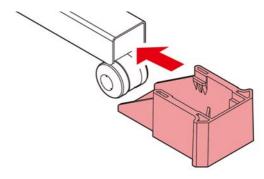
Move this machine as shown in the figure.

- For safety, be sure to operate it with 4 people or more.
- Do not push the cover to move this machine since the cover may be broken.





Reinstall the caster blocks.



Names of Parts and Functions

Front Side of the Machine

Ink cartridges

Each cartridge contains an ink of a particular color.

Cartridge protection cover

This prevents an injury or breakage of the machine due to a protrusion of the ink cartridge. (It is located under the ink cartridge.)

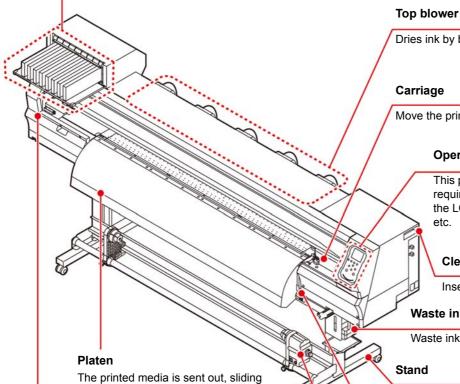
on the platen.

Maintenance cover

closed.

Open the cover in maintenance.

Even when the power switch is off, keep all covers



Dries ink by blowing air from the ceiling part.

Move the print head unit from side to side.

Operation panel

This panel has the operation keys required for operating the machine and the LCDs for displaying setting items, etc.

CleaningSolutionCartridge slot

Insert the cleaning solution cartridge.

Waste ink tank

Waste ink gathers in this tank.

Supports the main body of the machine. It is provided with casters that are used to move this machine.

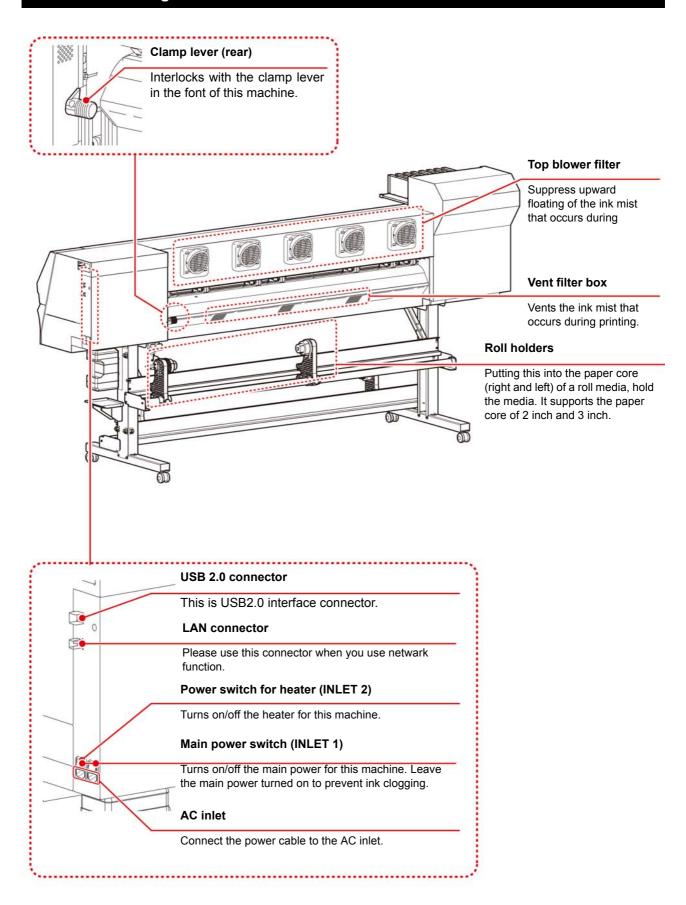
Clamp lever (front)

Moves the pinch rollers up and down to hold or release the media.

Take-up device

Automatically winds up the roll media printed.

Rear Side and Right Side of the Machine



Operation Panel

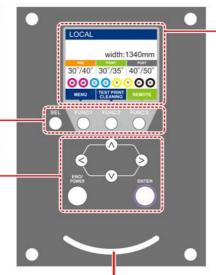
Use the operation panel to make settings for printing or operate this machine.

SEL key

Changes over the functions of the function keys ([FUNC1]–[FUNC3]).

(FUNC1)/(FUNC2)/(FUNC3) key

Press this to set various functions or to do test printing. The function keys' functions are changed each time [SEL] key is pressed.



Display

Displays the following items:

- · Printer status
- · Set media width
- Heater temperature (current temperature/set temperature)
- Ink status *1
- Functions assigned to [FUNC1] to [FUNC3] *2

JOG key ()

Use these keys to shift the carriage or the media in [LOCAL]. Also use them to select an item of printing conditions.

END/POWER key

Cancels the last input value or returns the setting menu to the immediate higher level of the hierarchy. Also, press this to turn the power on or off. (Give it a long press to turn the power off.)

ENTER key

Registers the last input value as the setting value or goes to the immediate lower level of the hierarchy.

Status indicator lamp

Indicates the machine's status (printing, error occurred, etc).

Condition of machine
Machine is in LOCAL mode, no print data has been received, and no errors have occurred.
Switched to REMOTE mode.
Currently printing.
In test printing: printing a pattern stored inside the machine.
Print data still remains in the machine.
Error has occurred.
Error (SYSTEM HALT) has occurred.



• The power switch under the operation panel lights in blue when the power is turned on, and off when the power switch is turned off. The ink clogging prevention function is periodically operated even when the power switch is OFF if the main power switch keeps being ON. (Auto maintenance function) **P.1-4**

*1 : Ink Status

Status of the ink cartridge (remaining ink/error, etc.) is displayed using icons. Each icon is described below.

Icon	Contents			
	Displays the remaining ink amount in nine levels, in the order of the ink cartridge set in the slot. The remaining amount decreases moving to the right.			
M	M M M M- M- M- MMM-			
	ink full Approximately 3/4 consumed. Approximately 3/4 consumed. near end			
- M -	Displayed at ink end and ink near end (only when the 4-color ink set is used). Be aware that the ink is running low.			
	Indicates that the cartridge cannot be used due to ink end or ink error (remaining ink 0, cartridge not attached, etc.).			
1	Indicates that ink has expired or that one month has passed after the expiration date. Please use quickly. Ink can no longer be used if two months have passed after the expiration date.			

*2 : Functions assigned to [FUNC1] to [FUNC3]

Contents of functions assigned to [FUNC1] to [FUNC3] are described below.

Icon	Contents
MENU	Displays "MENU" for setting functions.
TEST PRINT CLEANING	Displays maintenance functions such as test print, cleaning, etc.
REMOTE	Shifts to REMOTE from LOCAL and starts printing.
ADJUST	Displays adjustment functions such as FEED COMP, DROP.POScorrect, etc.
HEATER	Sets the heater temperature.
DATA CLEAR	Executes data clear.
LOCAL	Suspends printing in REMOTE and shifts to LOCAL.
СИТ	Executes media cut.
<<	When there are multiple items on the MENU screen or other screens, it moves to the previous page.
>>	When there are multiple items on the MENU screen or other screens, it moves to the next page.
ок	Used for completing confirmation when warning message has been displayed and so on.
OFF	Used for turning functions OFF or cancelling them, for example, when turning heater settings OFF and so on.
$\overline{\Psi}$	Some kind of setting or function is assigned. Operate according to the description of each function.
8	Switches between enable/disable when selecting multiple items, for example, when selecting target head for cleaning and so on.
TOOL	Set the cutting conditions.
TEST CUT	Check or set the settings related to cutting, such as test cutting.
PR	Set the pressure of the pinch rollers.



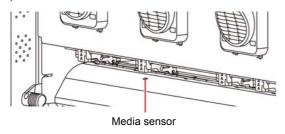
The color of icons changes according to the state of the printer.
 When the icon is green
 When the icon is dark blue
 When the icon is yellow
 The printer is in LOCAL mode.
 A warning has been issued.

When the icon is red : An erroe has been issued.

Media sensor

The media sensor detects the presence of the media and the media length.

This machine has one media sensor on the platen (in the rear).

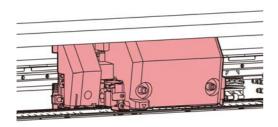




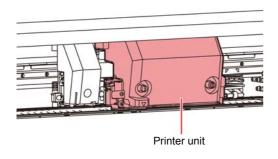
 When setting a media, be sure to cover the media sensors located on the rear of the platen. The media cannot be detected unless it is placed over the sensor.

Carriage

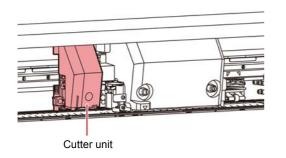
The carriage consists of the printer unit and the cutter unit.



Printer Unit



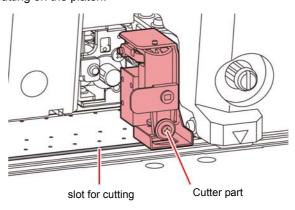
Cutter Unit



Cutter blade and slot for cutting

The carriage is provided with a cutter unit for cutting off the media that has been printed on.

The cutter cuts off the sheet of media along the slot for cutting on the platen.



Capping station

The capping station consists of the ink caps, the wiper for cleaning the heads, etc.

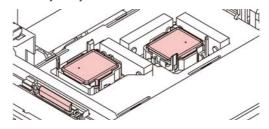
The ink caps prevent the nozzles in the ink heads from drying up.

The wiper cleans the nozzles in the heads.

The wiper is consumable. If the wiper is deformed or the media is stained, replace the wiper with a new one.



 Be sure to wear the attached safety glasses in cleaning within the capping station to protect your eyes against ink. Otherwise, you may get ink in your eyes.

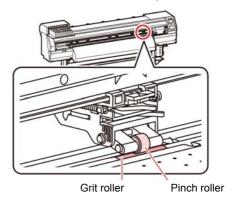


Pinch Rollers and Grit Rollers

This machine retains the media with the pinch rollers and the grit rollers.

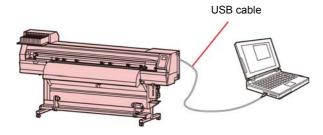


 Keep the pinch rollers lifted up when this machine is not in use. If the pinch rollers are left lowered for an extended period of time, they can be deformed and fail to securely retain the media.



Connecting Cables

Connecting USB2.0 Interface Cable



Connect the PC and this machine with the USB2.0 interface cable.



- Your RIP must be compatible with USB 2.0.
- Contact a RIP maker near your location or our office when the USB2.0 interface is not attached to the PC

Notes on USB 2.0 Interface



Your RIP must be compatible with USB 2.0.

When two or more CJV BS INK MODEL machines are connected to one personal computer

When two or more CJV BS INK MODEL machines are connected to one personal computer, the personal computer may not recognize all the CJV BS INK MODEL machines normally.

Reconnect the unrecognized CJV BS INK MODEL machine to another USB port, if available, and check to see if it is recognized. If the CJV BS INK MODEL machine is not recognized by the newly connected USB port, use USB 2.0 repeater cables available on the market.

Notes on peripheral devices in USB high speed mode

When a peripheral device (USB memory or USB HDD) to be operated in USB high speed mode is connected to the same personal computer that a CJV BS INK MODEL machine is connected to, the USB device may not be recognized. When CJV BS INK MODEL is connected to the personal computer to which an external HDD is connected via USB, the speed of data output to CJV BS INK MODEL may drop. That can cause the head unit to stop temporarily at the right or left end during printing.

Removing USB memory

If a USB memory module is inserted in the personal computer to which a CJV BS INK MODEL machine is connected, click "Stop" in the "Safely Remove Hardware" window by following the instructions given there first and remove the module.

Leaving a USB memory module inserted can cause [ERROR 10 COMMAND ERROR].

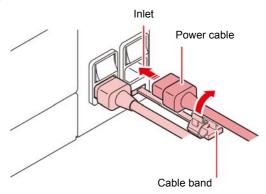
Copy the data onto the hard disk before outputting it for printing.



Connecting the power cable



Insert the power cable into an inlet of the machine.



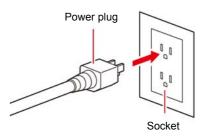
2

Secure a cable band.

 Secure the cable with the cable band attached to this machine.



Insert the power plug into a plug socket.





 Do not use any power cables other than the attached power cable.



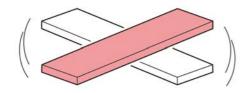
- Be sure to connect the power cable to the outlet near this machine, and make sure that the power cable can be easily removed.
- Connect the power cable to the grounded outlet.Otherwise, it may result in fire or an electric shock.

Inserting ink cartridges

Insert an ink cartridges.

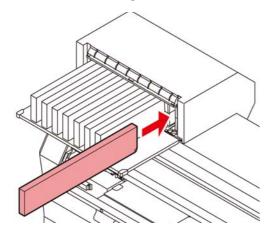


Shake the ink cartridge as shown on the right.



2

Insert the ink cartridge.



- Insert the ink cartridge lengthwise with the surface having IC chips pointing to the left side.
- Colors are displayed on the display as follows.
 Black: K, Cyan: C, Magenta: M, Yellow: Y,
 Blue: B, Light cyan: c, Light magenta: m, Light blue: b

Changing an ink cartridge

Perform as follows when [INK END] or [INK NEAR END] is displayed on the display.

When [INK END] is displayed

- (1) Pull out an ink cartridge to be replaced.
- (2) Insert a new ink cartridge, paying attention to the direction of IC chip.

When [INK NEAR END] is displayed

There is a little of ink left. It is recommended to replace the ink cartridge soon since ink may become empty in printing while printing is continuously enabled.

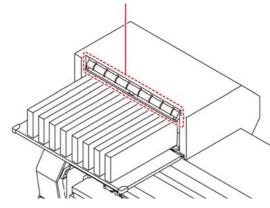


 During [INK NEAR END] is displayed, Auto cleaning does not operate.(P.3-9)

For Ink cartridge lamps

The condition of the ink cartridges set in the machine is confirmable with lamps located over the ink cartridges.

Ink cartridge lamps



Condition of Lamp	Description
Lit to green	No error (ink is being supplied)
OFF	No error
Lit or blinks to yellow	One of the following errors occurs. Ink near-end Ink end Expiration of a term of ink validity (one month)
Blinks to red	Expiration of a term of ink validity (two months)
Lit to red	One of the following errors occurs. No ink left No ink cartridge inserted Other ink errors (P.6-7)

About ink expiration date

The ink cartridge has its expiration date.

When this expiration date is exceeded, a message is displayed in LOCAL and for the guidance message. ($(\mbox{$\mathbb{Z}$P.6-5}, P.6-7)$

You can use the cartridge in two months after the expiration date indicated on it, however, you cannot use it when three months have passed from the expiration date. As LED will blink quickly to inform you of it, replace the cartridge

Ex.) When the expiration date is April 2016

May : Usable

June : Usable (LED lits to yellow) July : Unusable (LED blinks to red)

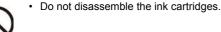
Caution in handling of ink cartridges



- Use genuine ink cartridges for this machine. This
 machine functions by recognizing the genuine ink
 cartridges. In case of troubles caused by modified
 ink cartridges or the like, it shall be out of the
 warranty even within the warranty period.
- If the ink cartridge is moved from a cold place to a warm place, leave it in the room temperature for three hours or more before using it.
- Be sure to thoroughly consume the ink in the ink cartridge, once it is opened, within three months.
 If an extended period of time has passed away after opening the cartridge tank, printing quality would be poor.
- Make sure to store ink cartridges in a cool and dark place.
- Store ink cartridges and waste ink tank in a place that is out of the reach of children.
- Request an industrial waste processor for processing of empty ink cartridges.



- Do not shake ink cartridges violently. This may result in ink leakage from the ink cartridges.
- Never refill the ink cartridges with ink. This may result in troubles.
 - MIMAKI will not bear any responsibility for any damage caused by the use of the ink cartridges refilled with ink.
- Do not touch or stain the contacts of the ink cartridge. This may cause damages on printed circuit boards.



Media

Usable media sizes and notes for handling are described.

Usable sizes of media

	Model	CJV300-130 BS INK MODEL	CJV300-160 BS INK MODEL
Type of Recommended media		Label stock (paper-based) / PVC sheet (including laminated; thickness no more than 0.25 mm) / Reflective sheet (excluding high-luminance reflective sheet) / Heat transfer rubber sheet	
Ма	ximum width	1371mm 1620mm	
Minimum width		210mm	210mm
Maximum printing width		1361mm	1610mm *1
	Thickness	1.0mm or less	
	Roll outside diameter	Paper media : Ф250mm or less Other media : Ф210mm or less	
ä	Roll weight	40kg or less	
Roll media	Roll inside diameter	3 or 2 inches	
2	Side printed	Side facing outward	
	Roll end treatment	The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.	

When the MARGIN(RIGHT/LEFT) setting has been set to the minimum (-10 mm).

Caution in handling of medias

Pay attention to the followings for handling of medias.



- Use media recommended by MIMAKI to ensure reliable, high-quality printing.
 Set the heater temperature to meet the characteristics of the media.
- Pay attention to the expansion and contraction of the media.

Do not use media immediately after unpacking. The media can be affected by the room temperature and humidity, and thus it may expand and contract.

The media have to be left in the atmosphere in which they are to be used for 30 minutes or more after unpacked.

- Do not use curled media.
 - This may result in paper jamming. If a regular-sized coated sheet of media is rolled and stored, the coated side has to face outside.
- Be careful to dusts on the edge face of the media.

Some rolls have dusts contained in the package gathered on the edge surface of the roll. If you use as it is, the drawing quality may be degraded due to nozzle missing or ink drops. Be sure to set the roll after removing dusts adhering on the edge face of the roll.



Menu mode

This machine has 4 modes. Each menu mode is described below.

NOT-READY mode

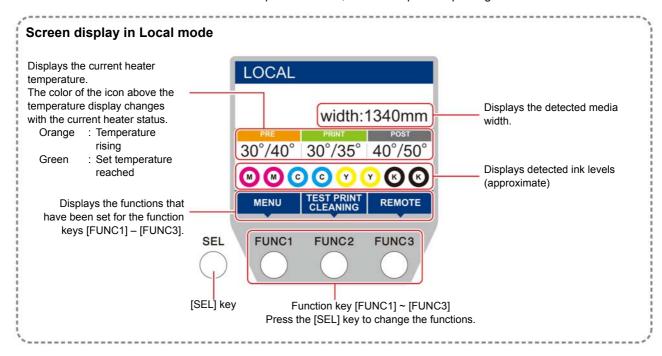
This is the mode in which the media has not been detected yet.

LOCAL mode

Local mode is the mode for the drawing preparation state.

All the keys are effective.

The machine can receive data from the computer. However, it does not perform printing.



This mode permits the following operations:

- Pressing the JOG keys to set up a drawing origin and drawing area.
- Pressing the [ENTER] key to check the remaining amount of ink, the description of the cartridge error, the model name, the firmware version, and so on.

MENU mode

To set MENU mode, press the [FUNC1] key when this machine is in LOCAL mode. In this mode, each function can be set.

REMOTE mode

This machine prints the data it receives.

Chapter 2 Basic Operations



This chapter

describes procedures and setting methods for ink and media preparation, and printing.

vvorktiow of printing	2-2	Settin
Turning the Power ON/OFF		Set
Turning the Power ON	2-3	If the
Turning the Power OFF	2-3	Printir
Setting a Media	2-4	Sta
Adjusting the Head Height	2-4	Sto
Adjusting the Position of the Pinch Roller		Del
According to the State of a Media	2-5	Cuttin
Maximum Print Area/Cut Area	2-8	Workf
Notes When Using media Holder	2-8	Install
Setting a roll media	2-9	Wh
Setting the pinch roller pressure	2-11	Ho
Take-up device	. 2-12	Settin
Setting leaf media	2-13	Abo
Changing the printing origin	2-14	Sel
Preparing for the Heaters	2-14	Set
Changing the Temperature Settings for		Test C
the Heaters	2-14	Cuttin
Test Printing	2-15	Set
Test Printing	2-15	Sta
Perform test printing with the normal test		Sto
pattern	2-16	(Da
Perform test printing with the test pattern		Re
for checking white ink	2-16	Cuttin
Head Cleaning	2-17	
About head cleaning	2-17	
Perform head cleaning depending on the		
test printing result	2-17	

Setting of Media Correction	2-18
Setting of Media Correction	
If the Positions of Dots Shift	
Printing Data	
Starting a Printing Operation	
Stopping a Printing Operation	
Deleting Received Data (Data Clear)	
Cutting a media	
Workflow of cutting	2-20
Installing Tools	
When a Cutter Is Used	
How to Install a Ballpoint Pen	
Setting the cutting conditions	2-24
About the Cut Conditions	
Select the tool condition	2-24
Set the Cut Conditions	2-25
Test Cutting	2-26
Cutting Data	2-26
Setting the origin	2-26
Start cutting	2-26
Stopping a Cutting Operation	
(Data Clear)	2-27
Removing the Cutter Unit Temporarily	
Cutting a media	2-27

Workflow of printing

Turning the Power ON/OFF	Referring to "Turning the Power ON/OFF" (@P.2-3).
Setting a Media	Referring to "Setting a Media" (@ P.2-4).
Preparing for the Heaters	Referring to "Preparing for the Heaters" (@P.2-14).
Test Printing	Referring to "Test Printing" (@P.2-15).
Test Printing Head Cleaning	Referring to "Test Printing" (P.2-15). Referring to "Head Cleaning" (P.2-17).

Turning the Power ON/OFF

Turning the Power ON

This machine is provided with the following two power switches:

Main power switch:

It is located on the side of this machine. Keep this switch ON all the time.

[END/POWER] key:

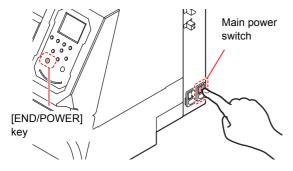
Normally, use this key to turn the power ON/OFF.

The nozzle clogging prevention function periodically operates even with the [END/POWER] key turned OFF when the main power switch is turned ON.

1

Turn the main power switch ON.

• Set the main power switch located on the side of this machine to the "I" side.



 The firmware version is displayed when the power is turned ON, and the machine performs its initial operation.



Turn the power on, by pressing the <a>END/POWER key.

· The machine enters LOCAL.



Turn ON the power of the connected PC.



- Turn the power ON after the front cover and maintenance cover are closed.
- The head nozzle may result in nozzle clogging if the main power switch is left OFF for a long time.

Turning the Power OFF

When having ended the operation of the machine, turn the power OFF by pressing the power switch located on the front side.

Check the following items when turning the power OFF.

- If the machine is receiving data from the PC or if there is any data that has not been output yet
- If the head has returned to the capping station
- If any error has occurred (P.6-7 "Ink Error")

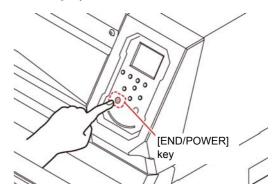


Turn OFF the power of the connected PC.



Turn the power off, by giving the <a>END/POWER key a long press.

- Do not turn OFF the main power switch located on the side of the machine.
- To use this machine again, press the [END/ POWER] key .



Cautions about Turning the Power OFF

Do not turn the main power switch OFF.

When the main power switch is ON, the power periodically turns ON and the nozzle clogging prevention function (flushing function) operates. When the main power switch has been turned OFF, the auto maintenance functions, such as flushing, do not operate, and this may cause nozzle clogging.

Turn the power OFF after having checked the position of the head.

If the power is turned OFF in a state where the head has not returned to the capping station, the ink head dries, which may cause nozzle clogging.

In this case, turn the power ON again and check that the head has returned to the capping station, and turn the power OFF.

Do not turn the power OFF during printing.

The head may not return to the capping station.

After having turned the power switch OFF by pressing [END/POWER] key, turn the main power switch OFF.

When turning the main power switch off for moving the machine or for solving the error or the like, press the [END/POWER] key a long time on the front of the machine, check the display is turned off on the operation panel, and turn the main power switch off.

Setting a Media

This machine can be used with a roll media and leaf media.

For usable medias, refer to P.1-10 "Usable sizes of media".



- Take care not to drop the media on your foot when setting the media. It may cause an injury due to the media.
- When setting a roll media, work by two or more people. Otherwise, you may hurt your back by the weight of the roll media.
- Adjust the head height prior to setting the media.If the head height is adjusted after the media is set, this may cause a media jamming, deterioration of the print quality or head damage.
- The range of the initial head height is adjustable by 2 levels according to the purpose of use.
- The range of the printing height of this machine is from L range (2 mm/3 mm) to H range (3 mm/4 mm). (Set to L range 2 mm at shipping)

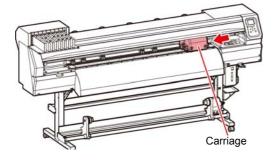
Adjusting the Head Height

Adjust the head height according to the thickness of the media you use.



Move the carriage to the platen.

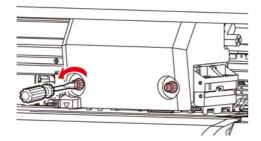
- When the device is turned ON :Execute [ST.MAINTENANCE - CARRIAGE OUT] of the Maintenance functions.(
- When the device is turned off:
 Open the front cover, then move the carriage by hand.





Loosen the screw in front.

 Loosen the screws, rotating each by one turn of a standard screwdriver.

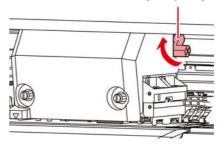




Adjust the height-adjusting lever according to the media.

- Adjust the position of the lever, referring to P.2-4 "For the Adjusting Lever and the Range".
- Set the height-adjusting lever to the highest stage or the lowest stage. Setting it to the intermediate height, a printing fault can result.

Height-adjusting lever



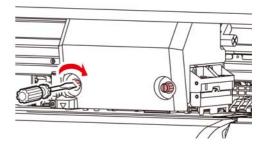


Fix the carriage.

· Fasten the screw securely.



 If you set the height-adjusting lever to the H range or L range, do not push the lever upward or downward when you tighten the screw.





Return the carriage to the station position.

For the Adjusting Lever and the Range

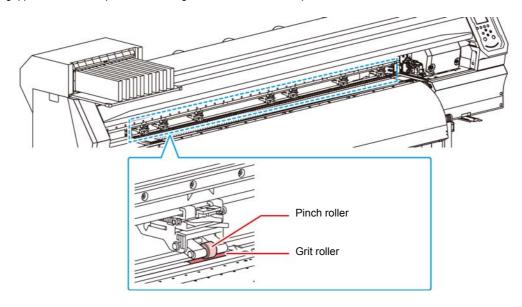
Range	Head height	Note
L range	2mm (The set position at shipping)	You can raise the base of the head height 1 to 2 mm higher.
M range	2.5mm	To do this, contact one of our
H range	3mm	sales representatives.

Adjusting the Position of the Pinch Roller According to the State of a Media

Adjust the position of the pinch roller according to the width of the media to be set. This machine feeds the media with a pinch roller and grid roller for printing or cutting. The pinch roller should be above the grid roller.



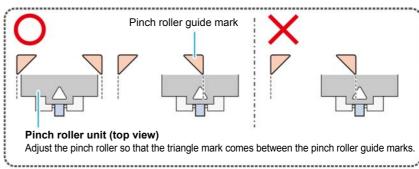
When setting the media. Do not place the pinch roller that has been removed from the media on the grid roller. (Move the
pinch roller as shown in the illustration "X" in "How to Adjust the Pinch Roller".) Operating the printer with the media not
gripped between the pinch roller and grid roller could wear the pinch roller out.



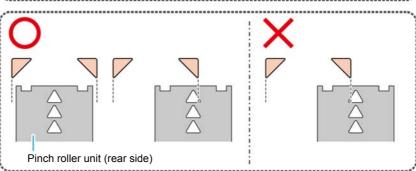
How to Adjust the Pinch Roller

Move the pinch roller unit to adjust the position of the pinch roller. Use the pinch roller guide mark for positioning.

To adjust the pinch roller from the front side:



To adjust the pinch roller from the rear side:

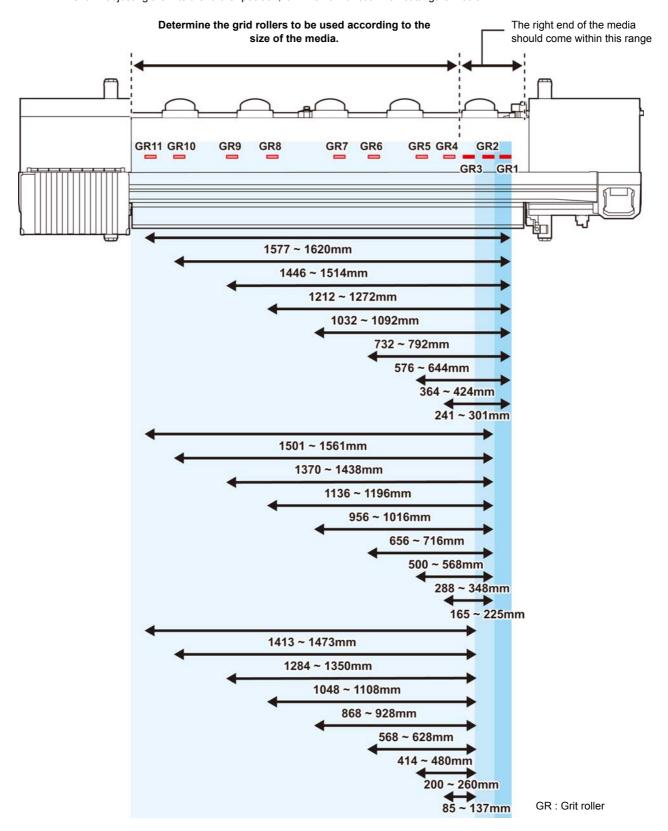


Media Size and the Grit Roller (CJV300-160 BS INK MODEL)

The grit roller positions are determined by the size of the media.



- To feed the media smoothly, select the grid roller positions so that the media can be held at equallyspaced intervals.
- When the grid rollers to be used are determined, adjust the pinch roller unit referring to "How to Adjustthe Pinch Roller" of P 2-17
- You can use any number of pinch roller units from 2 to 7.
- Adjust the pinch roller of both ends so that they are within the range of 10cm from media left end and 2cm from media right end. If adjusting them to the further position, it will remain uncut when cuttingthe media.

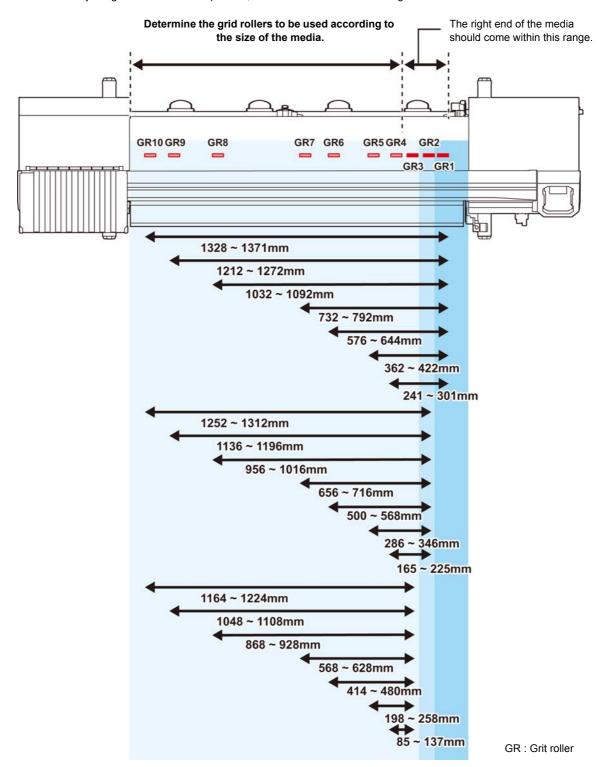


Media Size and the Grit Roller (CJV300-130 BS INK MODEL)

The grit roller positions are determined by the size of the media.



- To feed the media smoothly, select the grid roller positions so that the media can be held at equallyspaced intervals.
- When the grid rollers to be used are determined, adjust the pinch roller unit referring to "How to Adjustthe Pinch Roller" of P 2-17
- You can use any number of pinch roller units from 2 to 6.
- Adjust the pinch roller of both ends so that they are within the range of 10cm from media left end and 2cm from media right end. If adjusting them to the further position, it will remain uncut when cuttingthe media.



Maximum Print Area/Cut Area

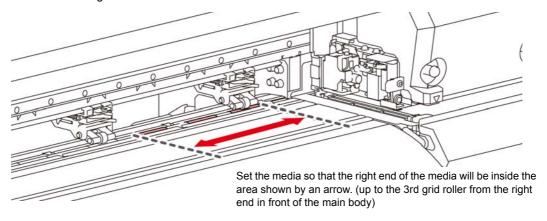
The maximum printed area/cut area varies, depending on the position of the pinch roller (P.2-8 to) and the origin position (P.2-14). The white area shown in the following figure represents the maximum print/ cut area. The area other than that is the dead space that cannot be printed/cut.

	CJV300-130 BS INK MODEL	CJV300-160 BS INK MODEL
Maximum printing/cut width	1361mm	1610mm

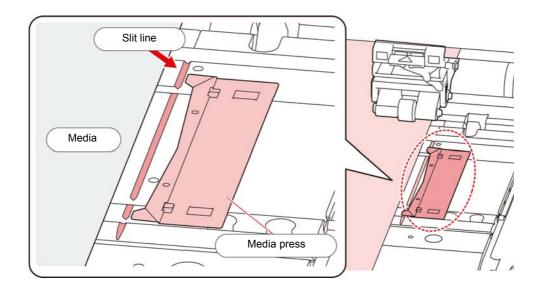
Notes When Using media Holder

Setting Position of the Media

Set the media so that the right end of the media will be inside the area shown below.



The End of the Media Should Not Exceed the Slit Line on the Platen



Setting a roll media

Set a roll media to the roll media hanger located on the back of this machine.



 Take care not to drop the media on a foot or so when the media is set. It may cause an injury due to the media.

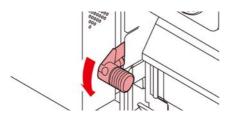


Move the roll holder located in the back of the device to the direction of the middle of the device.

· Loosen the roll holder fixing screw and move it.



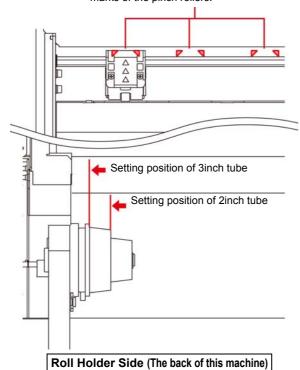
Check the clamp lever is lowered.



Move the roll holder to the roll setting position.

 Check the media size and the position to set the media, referring to the section applicable to your machine (P.2-18 to P.2-21).

Adjust the basic position of the roll holder so that it is placed between the guide marks of the pinch rollers.





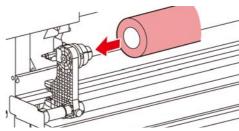
Tighten the roll holder fixing screw.

· Check the Step 2 to 3 again.

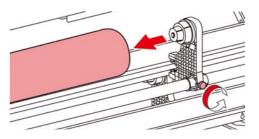


Set the left end of the core of the roll media on the left roll holder.

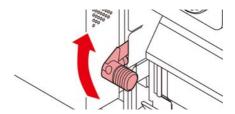
 Push the roll media onto the roll holder until the roll core is all the way seated.



6 Loosen the screw of the right side roll holder then insert the holder into the core of the roll media.



Raise the clamp lever in the rear of this machine.



8

Insert the roll media in this machine.

- The roll media can be smoothly inserted by slanting the media.
- (1) Pull the media out of the roll to the head of the platen.
- (2) Insert the media between the platen and the pinch roller.
 - Pull the media out of the roll so that the media can be grasped from the front of the machine.
- (3) Push down the clamp lever from the back of this machine.
 - The media is held.

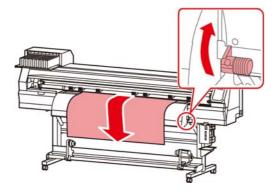


- Set the pinch roller units so that the media can be held at equally spaced intervals. If the pinch rollers cannot be set at equally spaced intervals, start over from Step 3.
- Ensure there is a dead space of 5 mm or above at each end of the media. (P.2-8)



Pull out the roll media out.

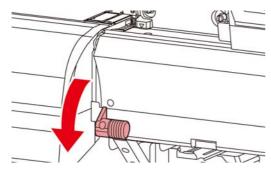
- (1) Open the front cover.
- (2) Raise the clamp lever from the front of this machine
- (3) Pull out the roll media gently and stop pulling when locked lightly.





Make the roll media even then lower the clamp lever.

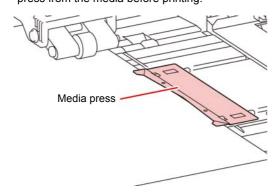
 Pulling several positions of the media lightly, Lower the clamp lever after confirming that the amount of the roll media pulled out is almost even.





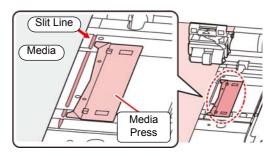
Hold the media with the media press gently.

- Set the media so that no media sticks out from the right end pinch roller to the right side.
- When using a thick media, remove the media press from the media before printing.



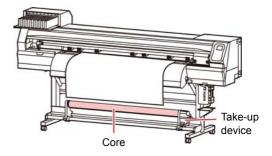


- When installing the media, align the media's right edge with the slit line in the platen. Placing the media rightward of the slit line will make it rise up if it moves obliquely, and this could cause damage to the head.
- If a media is misaligned to the right/left more than fixed position, a error message "MEDIA SET POSITION R" is displayed. Set the media again.



12

Set an empty core of the roll media on the take-up device.



13

Press the key to select "ROLL" .

- · Detects the media width.
- When [MEDIA DETECT] of the machine setup is "MANUAL" (P.3-13), refer to P.2-11 "Setting of the manual media width setting" and enter the media width.
- 14

When the media width detection is complete, use to enter the number of the pinch rollers you are using.

 When the pinch roller number in "MEDIA DETECT" of the machine setup is set to OFF (P.3-13), the screen to enter the number of pinch rollers is not displayed. Proceed to step 16.

15

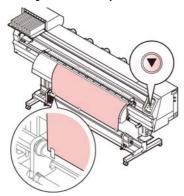
Press the ENTER key.

 When [MEDIA RESIDUAL] of the machine setup is "ON" (P.3-13), the screen for entering media remaining amount is displayed after pressing [ENTER] key. (P.2-11)

[16]

Secure the media on the take-up device. (P.2-12)

- (1) Feed the media up to the core of the roll media of the take-up device by pressing the [▼] key.
- (2) Fix the middle of the media with adhesive tape.
- (3) In the same manner, fix the left side and right side of the media.
 - Make sure that the there is no slack or wrinkle on the media in such condition that the roll media is pulled to right and left evenly, and stick the tape.



Setting the pinch roller pressure

After setting the media in place, set the pressure of the pinch rollers that retain the media.

Be sure to set a pressure value that is appropriate for the media. With an inappropriate pinch roller pressure value, the media could skew during printing or cutting, or the pinch rollers could remain on the media after pinching.

You can set the following items in pinch roller pressure settings:

Item	Setting value	Outline		
NUMBER FOR USE	1~7	Set the number of the pinch rollers you are using. This number differs depending on the model you are using.		
PRINT	LOW/ MID/ HIGH	Set the pinch roller pressure for printing.		
CUT: ENDS	LOW/ MID/ HIGH	Set the pressure of the edge pinch rollers (left and right edges) used when cutting the media.		
CUT: INNER	OFF/ LOW/ MID/ HIGH	Set the pressure of the pinch rollers except for the edge pinch rollers used when cutting the media.		
CHANGE EXECUTION	PRINT/ CUT	Switch between the setting for printing and cutting.		

1

Press the (FUNC3) (PR) key in LOCAL.

2

Press to select setting item, and press the key.

3

Press , to select the setting value.



Press the ENTER key.



Press , to end the setting.

• If you want to switch to another setting immediately, press [<].

Entering the media remaining amount

When [MEDIA RESIDUAL] of the machine setup is "ON" (P.3-13), the screen for entering media remaining amount is displayed after detecting the media width.



Display the screen for entering media remaining amount.



Press to enter the media remaining amount.



Press the ENTER key.

Setting of the manual media width setting

When [MEDIA DETECT] of the machine setup is "MANUAL" (P.3-13), set the media width in the following method.



Display the screen for entering the right edge position of the media.



Press to enter the right edge position of the media.



Press the ENTER key.

 Next, the screen to enter the left edge position of the media is displayed.



Press to enter the media the left edge position of the media.



Press the ENTER key.



 Be careful not to set the position beyond the media range, as it may cause printing or cutting outside the media

About the media residual print

When [MEDIA RESIDUAL] of the maintenance function is "ON" (P.3-13), You can print a list of print the current date and media remaining.



In Local, Press (A) (P).

• It enters into the origin setting mode.



Press the (FUNC3) key.

 Appear the confirmation screen of media remaining print.

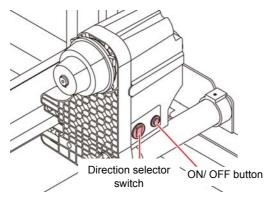


Press the ENTER key.

· Media residual print starts.

Take-up device

With the switch of the narrow take-up device, select the take-up direction of the media or others.



Direction selector	UP (REVERSE)	The take-up device winds the media with the printed side facing in.			
switch	DOWN (FORWARD)	The take-up device winds the media with the printed side facing out.			
ON/OFF button		Turns the winding motion on/off. (When you press the button and operate the take-up device, the device keeps taking up the media until you press the button again. *1)			

^{*1.} You can also change the setting so that the taking-up operation only lasts while the ON/OFF button is being pressed. For details, refer to "Setting Top Blower" ((P.3-12) in machine settings.

Setting the torque limiter

The take-up device is provided with a torque limiter.

The take-up torque can be adjusted with the torque limiter. (The torque limiter is set to "media" at delivery.)

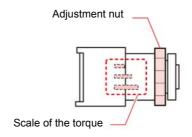
If the tension is too strong to use a thin media of media, lower the take-up torque with the torque limiter.

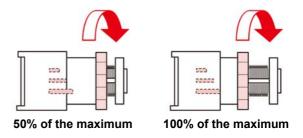
Clockwise turn:

Increases torque (a heavy and thicker media such as tarpaulin or the like)

Counterclockwise turn:

Decreases torque (For light media)

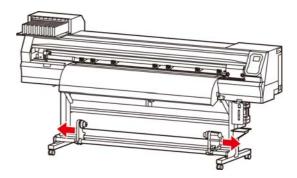




When Not Using Taking-up Device



 When performing printing or cutting of 700 mm or more without using the taking-up device, evacuate the takingup device to right and left. The quality of the print and cut may become low because of the impact when the front end of the media touches the taking-up device.

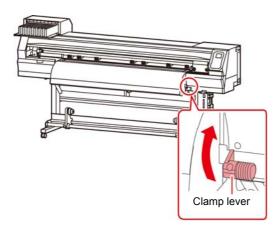


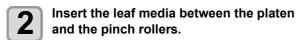
Setting leaf media

Unlike roll media, leaf media does not need to be retained with the roll holders.



Raise the clamp lever.

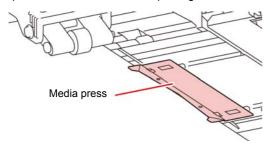




• Set the media so that no media sticks out from the right end pinch roller to the right side.

To print, hold the media with the media press gently.

- Set the media so that no media sticks out from the right end pinch roller to the right side.
- When using a thick media, remove the media press from the media before printing.



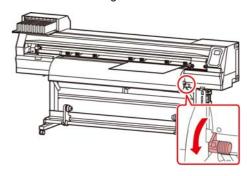


- Set the pinch roller so that the media is held at equally spaced intervals. If the pinch rollers cannot be set at equally spaced intervals, start over from Step 2.
- Ensure there is a dead space of 5 mm or above at each end of the media. (P.2-8).



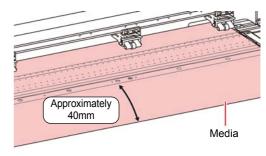
Push down the clamp lever.

Set the media straight.



(Important!)

 Set the media on the black part of the platen so that it comes out approximately 40mm. If it is shorter than that, it may not be able to perform the media detection.



5 Press the ENTER key.

6 Press the key to select "LEAF" .

7

The media detection is started.

- (1) The media width is detected.
- (2) The media is fed then the rear end of media is detected.
- (3) It returns to the Local when the detection is completed.

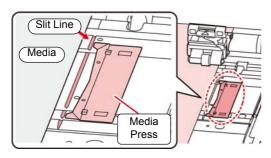


 After setting the media in place, set the pinch roller pressure, referring to P.2-11 "Setting the pinch roller pressure".

Notes when using media press



- When installing the media, align the media's right edge with the slit line in the platen. Placing the media rightward of the slit line will make it rise up if it moves obliquely, and this could cause damage to the head.
- If a media is misaligned to the right/left more than fixed position, a error message "MEDIA SET POSITION R" or is displayed. Set the media again.



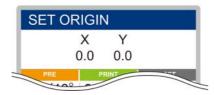
Changing the printing origin

The position of the printing origin can be changed. Moving the LED pointer to the changing position and deciding the position.



In Local, Press 🔺 🔻 🕩.

• It enters into the origin setting mode.





• Select the carriage and media, moving the point with [▲][▼][◀][▶].



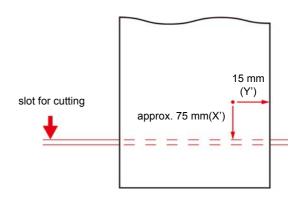
ENTER After determining the origin, press the ENTER key.

• The printing origin is changed.

Typical setting position of printing origin

The printing origin in the depth direction (X') is positioned at about 75 mm rearward from the slot for cutting on the platen. The printing origin in the scanning direction (Y') is positioned at 15 mm from the right end of the media. The value in the scanning direction (Y') can be changed using [MARGIN] in FUNCTION mode. ((P) P.3-8)

This can be changed by using the Jog key.



Preparing for the Heaters

Changing the Temperature Settings for the Heaters

You can change/save the temperature settings for the heaters with "Heater" of the setting mode. ((2) P.3-6)

Here, changing method of the temperature set in the setting mode is explained.

Set the heater temperature according to the characteristics of the media you use.

The temperature of the heaters has been set to "OFF" as default.

Appropriate temperature adjustment can be made because the temperature can be adjusted even during printing.

It may take several minutes to tens of minutes for the set temperature to be reached, depending on the ambient temperature.



Press the SEL key, and press the (FUNC2) (Heater) in LOCAL.

 The heater temperature adjustment screen will be displayed.



Press to set the temperature of each heater.

Heater selecting: Select with $[\blacktriangleleft][\blacktriangleright]$ **Temperature setting**: Set with $[\blacktriangle][\blacktriangledown]$

• The heater starts to get hot.



The heating of the heater stops.

• When the heater temperature reaches the set temperature, the heater icon lights in green.



Press the (ENTER) key to stop heating.

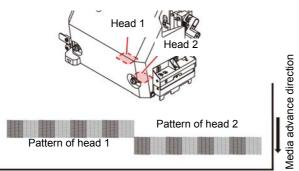
The screen returns to LOCAL.

Test Printing

Print a test pattern to check that there are no discharging defects such as nozzle clogging (slight touching of ink or nozzle missing).

Relationship between head row and test pattern

The relations between head row and test pattern print position are as follow.



About test patterns

This machine provides you two test patterns.

Normal test pattern (when using ink other than white ink)

When you use ink that you can check by printing a test pattern on a white media, print this test pattern.



Test pattern for checking white ink

When you use a white media and wish to check discharging status of white ink, print this test pattern.



Note on test printing

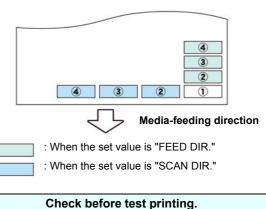


- When using leaf media, set a media of more than A3 size put horizontally. If a media with narrow width is set, printing will only be conducted to midway.
- When using a roll media, rewind the media by hand before printing so that it is not loose. When the roll media has not been rewound tightly, it may cause image quality to deteriorate.

Test Printing

Print a test pattern to check that there are no discharging defects such as nozzle clogging (slight touching of ink or nozzle missing).

In addition, you can select the orientation of the test pattern to print from two types in order to perform test printing repeatedly. Select one depending on your use.



- Check before test printing
- If a media has been set P.2-4
- If the origin position has been set
- If the head gap has been adjusted P.2-4

Perform test printing with the normal test pattern



Press the (FUNC2) (TEST PRINT/CLEANING), and press the (ENTER) key in LOCAL.

- TEST PRINT MENU will be displayed.
- Press [▲][▼] to change the test pattern orientation. The orientation selected here will be reflected on when you will print next time.
- When performing test printing after having changed the orientation from "SCAN DIR." to "FEED DIR.", the line is fed to the position of the first test printing.



Press the ENTER key.

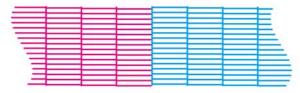
- · Test printing starts.
- When the printing has been completed, the screen returns to LOCAL.



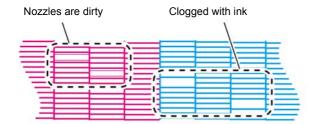
Check the printed test pattern.

- When the result is normal, end the operation.
- When the result is abnormal, perform head cleaning. (P.2-17)

Normal pattern



Abnormal pattern



Perform test printing with the test pattern for checking white ink

It makes easier to check if print the background to the white ink locations in the pattern.



Press the FUNC2 (TEST PRINT/CLEANING), and press the ENTER key in LOCAL.

• TEST PRINT MENU will be displayed.



Press to select "SpotColor Check".



Press the ENTER key.

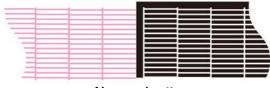
- Print a test pattern in the following orders.
- (1) Print the pattern daubed with black.
- (2) Dry the pattern for thirty seconds.
 - When press the [ENTER] key, cancel waiting time and shift to step (3).
- (3) Return the media automatically and print the test pattern.



Check the printed test pattern.

- When the result is normal, end the operation.
- When the result is abnormal, perform head cleaning. (P.2-17)

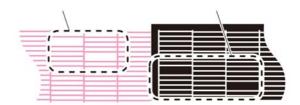
Normal pattern



Abnormal pattern

Nozzles are dirty

Clogged with ink



Head Cleaning

About head cleaning

Check the printed test pattern result and perform cleaning depending on the status.

Select one from the four types below:

NORMAL: When any line is missing

SOFT : When only head wiping is needed (when

lines are bent)

HARD : When poor image quality cannot be

improved even by NORMAL or SOFT

cleaning

ULTRA : When poor image quality cannot be

improved even by HARD cleaning

Perform head cleaning depending on the test printing result

There are four types of head cleaning. Use one by checking the test pattern.



Press the (FUNC2) (TEST PRINT/CLEANING) **▶ ▼) ♦ (ENTER)** key in LOCAL.

· CLEANING MENU will be displayed.



Press to select the cleaning type.

NORMAL : Select this if any line is missing.

 SOFT : When only head wiping is desirable.

(in case of bent lines)

: Select this if inferior printing cannot • HARD

be improved even by [NORMAL] or [SOFT] cleaning.

 ULTRA : Select this if inferior printing cannot be improved even by [HARD]

cleaning.

Press the ENTER key.



Press to select the cleaning head, and then press the (FUNC2) (✔).

· After selecting the head, press the [FUNC2] key and put a check in the check box.

The head whose box has been checked will be

• To have both head 1 and head 2 cleaned, put a check in both their check boxes.



Press the ENTER key.



Perform test printing again, and check the

· Repeat the cleaning and the test printing until the printing result becomes in normal.



When the image quality is not improved after the head cleaning.

- Clean the wiper and ink cap. (P.5-9)
- Wash the head nozzle. (RP P.5-10)

When 600cc cartridge is used

Even when [Ink Level] is displayed, enough ink for head cleaning may remain in the ink pack.

When [Ink Level] appears, see P.3-15 "When [Ink Level low] is displayed" and enter the current weight of the 600cc cartridge.

When the remaining ink is not enough for head cleaning

When the remaining ink is not enough for head cleaning, an error message " Error" shown on the step 3. Replace with a new ink pack, and then perform head cleaning again.

Setting of Media Correction

Correct the media feed amount to match the type of media you are using.

If the correction value is not appropriate, stripes may appear on the printed image, thus resulting in a poor printing.



 On completion of [MEDIA COMP.] during use of a roll media, the media returns to the printing origin.
 Then the roll media in the rear of this machine will slacken.

Before printing, take up the slack in the roll media by hand; a loose roll media can result in an inferior image quality.

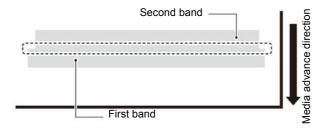
 When printing with a take-up device, set the media first and perform media correction.

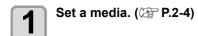
Setting of Media Correction

A pattern for media correction is printed and a mediafeeding rate is corrected.



- Two bands are printed in the correction pattern.
- Make adjustment so that an even color density is obtained in the boundary between the two bands.







· ADJUST MENU will be displayed.





Check the correction pattern and enter a correction value.

- A screen for entering the correction value will be displayed.
- Enter a correction value in "+":
 The boundary between the two bands is widened.
- Enter a correction value in "-":
 The boundary between the two bands is narrowed.
- When you change the correction value by "30", the width of the boundary changes by about 0.1 mm.

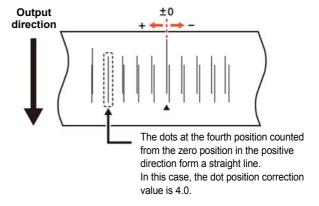
If the Positions of Dots Shift...

When the condition for printing (media thickness/ink type/etc.) has been changed, perform the following operation to correct the ink drop position for bidirectional (Bi) printing and obtain the proper printing result.



 When using leaf media, set a media of more than A3 size put horizontally. If a media with narrow width is set, printing will only be conducted to midway.

Example of a Printed Pattern



Press the SEL key, and press the FUNC1 (ADJUST) in LOCAL.

· ADJUST MENU will be displayed.

Press , and press the ENTER key.

"DROP.POScorrect" will be selected.

Press the ENTER key.

- Printing of the Drop position correct printed pattern will start.
- Multiple test patterns are printed. (The printed patterns are called Pattern 1, Pattern 2, Pattern 3... in the order of printing.)
- Press to enter a correction value of Pattern 1, and press the ENTER key.
 - Corrected feeding rate: -40 to 40
 - Check the test patterns. The position where an outward feeding line and a return feeding line become one straight line is the correction value.
 - When the correction value in not between -40 and 40, adjust the height of the printing heads and perform the operations in Step 2 and later.
- In the same way as in Step 4, enter a correction value of Pattern 2 and later, and press the ENTER key.
- Press the <u>END/POWER</u> key several times to end the setting.

Printing Data

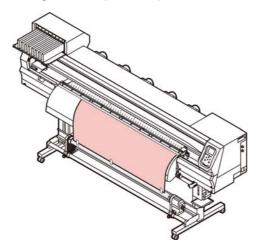
Starting a Printing Operation



 When using a roll media, rewind the media by hand before printing so that it is not loose. When the roll media has not been rewound tightly, it may cause the image quality to deteriorate.

1

Setting a Media (RP P.2-4)





Press the FUNC3 (REMOTE) key in LOCAL.

• The screen changes to REMOTE, and data can be received from the PC.



Transmit data to be printed from the PC.

• For the method of data transmission, see the instruction manual for the output software.

Resolution 360 /540 /720 /1440 DPI Number of passes Scan direction Uni:Unidirectional Bi.:Bidirectional Scanning speed Std:Standard speed Hi:Double speed Vd: Variable data Nd: Normal data

The length of media printed



Start printing.

 The printing speed may change, depending on the width of the set media or the position of the print origin even when the same data is printed. This is because of a difference in resolution.

Stopping a Printing Operation

Perform the following operation when stopping a printing operation halfway.



Press the (FUNC3) (LOCAL) during printing.

- The printing operation stops.
- Interrupt data sending at the PC side during the data is sent from the PC.
- Printing restarts from the interrupted data by repressing the [REMOTE] key.

Deleting Received Data (Data Clear)

When you want to stop printing, delete the already received data.



Press the SEL key, and press the FUNC3 (DATA CLEAR) in LOCAL.



Press the (ENTER) key.

 The received data is erased then it returns to the Local.

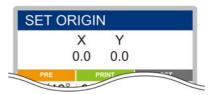
Cutting a media

By using the keys on the operation panel, you can cut the media at any position.



In Local, Press 🔺 🔻 🕩.

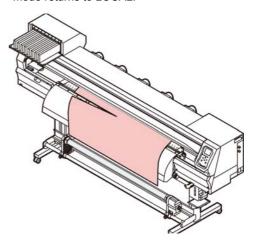
- It enters into the origin setting mode.
- By pressing [▼] , feed the media to the cutting position.





Press the (FUNC2) (ENTER) key.

- The media is cut.
- When the cutting has been completed, the current mode returns to LOCAL.



Workflow of cutting

Turning the Power ON/OFF	Referring to "Turning the Power ON/OFF" (@P.2-3).
Setting a Media	Referring to "Setting a Media" (@ P.2-4).
Installing Tools	Referring to "Installing Tools" (P.2-21).
Setting the cutting conditions	Referring to "Setting the cutting conditions" (P.2-24).
Setting the cutting conditions Test Cutting	

Installing Tools

This machine allows you to use the following tools: **Cutter:**

This tool is selected when an image printed on a media is cut or when letters are cut with a cutting media.

Pen (water-based ballpoint pen):

This tool is used to perform "test printing" for checking how images or letters are cut actually.

When a Cutter Is Used



- Do not touch the cutter with your fingers.
 The sharp blade edge of the cutter may cause you to get injured.
- Do not shake the tool after having set the cutter.

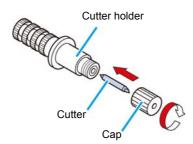
Otherwise, the blade edge may pop out, causing you to get injured.

 Store the cutter blade in a place that is out of the reach of children. In addition, dispose of used cutter blades according to regional laws and regulations.

How to install a cutter



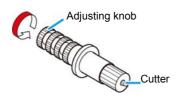
Remove the cap located at the edge by rotating it, and replace the cutter with a new one using tweezers or the like.





Turn the adjusting knob to adjust the protruding amount of the cutter.

arrow to protrude the cutter blade.
 (0.5 mm per revolution)



Adjusting the protrusion of the cutter blade

Adjust the cutter blade according to the types of the cutters and the sheet for use.

After adjusting the protrusion of the cutter blade, set the cutting conditions and conduct test cutting to check the cutting quality. For the cutter supplied with unit, the protruding amount of the blade can be adjusted with the cuttermounted in the pen carriage.

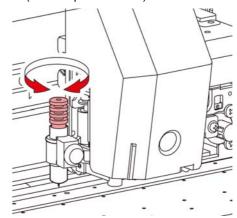


 Take care not to protrude the blade too much. If the cutter is used with its blade excessively protruded, the cutter can cut out the base paper, thus damaging the main unit.



Turn the adjusting knob to adjust the protruding amount of the cutter blade.

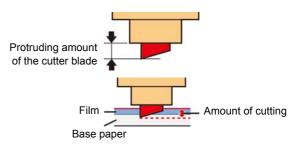
arrow to protrude the cutter blade.
 (0.5 mm per revolution)





 See the appendix for the blade adjustment of the cutters other than the auxiliary products.
 (P.5-22)

Protruding amount of the cutter blade



Amount of cutting= (Film thickness + Base paper thickness)

• However, Film thickness < Base paper thickness

For reference:

the protruding amount of the cutter blade = 0.2 to 0.5mm (Replace the blade when it is blunt.)



- Adjust the blade pressure so that the cutter may leave a little bit of cutter track on the sheet.
- In case the sheet thickness is thinner than the film thickness, which may not provide correct cutting quality, change the protruding amount of the blade and you may get a better result.

How to install the cutter holder



 Install the cutter holder to the tool holder of the carriage.Be sure to insert the cutter holder all the way in the tool holder.



Press the Func1 (MENU) → Func3 (>>)
→ ENTER key in LOCAL.

· Cuttibg MENU will be displayed.



Press to select "TOOL REPLACE", and press the ENTER key.

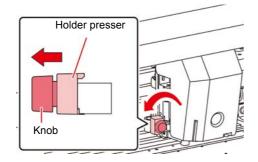


Press the ENTER key.

 The cutter unit moves to the left end of the machine.



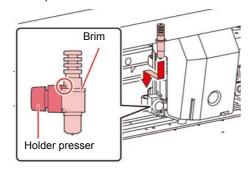
Rotate the knob to loosen the holder presser.



5

Insert the cutter holder into the tool holder.

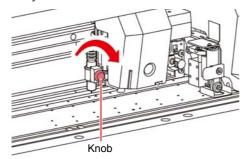
- Push the brim of the cutter holder against the tool holder.
- Press the brim of the cutter holder with the I holder presser.





Fix the cutter holder.

• Turn the knob of the tool holder clockwise, and surely fix it.





• Fix the cutter holder firmly. If not, accurate and high-quality cutting will not be achieved.

How to Install a Ballpoint Pen



- When you want to use a commercially available ballpoint pen, you must use the pen of 8mm to 9mm in diameter. Image quality may depend on the pen. (Recommended ballpoint pen: the one available from Pentel Co., Ltd. with the product No.: K105-A, K105-GA)
- Regarding such ballpoint pens as shown below, the pen inclines to touch the cover when held by the pen adapter (the pen that the pen holder girth of which may vary, the pen that the pen holder of which has umbo and differences)





Uneven gauge

With steps or bumps

Put the cap on the pen adapter.

· Use the cap to adjust the pen height.



Insert the pen into the pen adapter.

 Insert the pen until the tip of the pen reaches the cap.

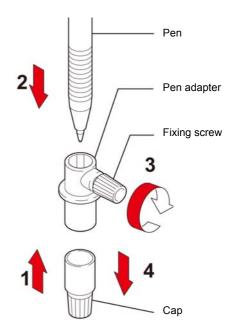


Fix the tip of the pen.

- · Tighten the fixing screw clockwise.
- Be careful not to over-tighten the fixing screw for the pen adapter. If tightened too much, the ballpoint pen may crack.



Remove the cap.





Press the (FUNC1) (MENU) → (FUNC3) (>>)
→ (ENTER) key in LOCAL.

Cuttibg MENU will be displayed.



Press to select "TOOL REPLACE", and press the ENTER key.

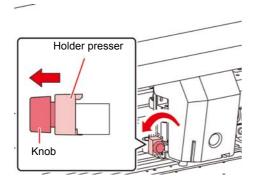


Press the ENTER key.

• The cutter unit moves to the left end of the machine.



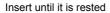
Rotate the knob to loosen the holder presser.

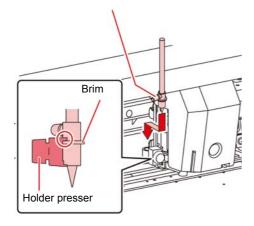




Insert the pen adapter with the pen into the tool holder.

- Make sure that the brim of the pen adapter is rested on the tool holder.
- Set the adapter in such a way that the fixing screw will not obstruct operation.
- Press the brim of the pen adapter with the holder presser.







Turn the knob clockwise to fix the tool.

• Turn the knob of the tool holder clockwise, and surely fix it.



- Instead of the ballpoint pen, you can attach the refill that comes with it.
- Follow the procedure below to attach the ballpoint pen refill to the pen adapter, then put it into the tool holder in the same way as in step 6.
- (1) Insert a spring into the pen tip.



- (2) While pressing the cap onto the spring, attach it on the pen adapter.
 - Rotate the cap to the direction indicated with an arrow and attach it on the pen adapter.





 When you replace the ballpoint pen (SPB-0726), contact a distributor in your district or our office to call for service

Setting the cutting conditions

You can register the cutting speed and the pressure depending on the sheet or the tool type to be used. (Cut condition)

About the Cut Conditions

Items you can set here

To co	ol ndition	You can select the cutting condition No.(1 to 7) or plotting condition (PEN).
Cu	ıt speed	Setting of the speed of cutting.
Cu	t press	Setting of the pressure required for cutting. (g)
Offset *1 Setting of the distance from the center of the cholder to the cutter blade.		Setting of the distance from the center of the cutter holder to the cutter blade.
На	If cut *2	Setting of enabling (ON)/disabling (OFF) the half-cut function.
	Half cut press	Setting of the pressure of left part. (g)
	H-leng Setting of the length to be left (not to be cut). (m	
	C-leng Setting of the length to be cut. (mm)	

- *1. You cannot set this when "PEN" is selected in the tool condition,
- *2. The three items in the lower level are available when the half-cut is set to ON

About Selecting Cutting Condition



Press the SEL key to display "TOOL" in LOCAL.





Press (FUNC1) to display the cut condition.

• The three items shown in the following screen are not displayed unless the half-cut is set to ON.

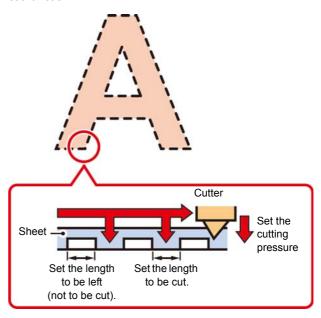




About Half Cutting

You can cut on the dotted line, not to cut sheet out. (Half cut)

When you set half cut to valid (ON), you can use the half cut function.



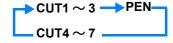
Important!

 The illustration above is the image. The shape of cut surface differs depending on the cutting conditions.

Select the tool condition

Before cutting (plotting), select the tool condition depending on the sheet and the tool type to be used.

- Press the SEL key in LOCAL to display the "TOOL" menu.
- Press the FUNC1 (TOOL).
- Press the ENTER key.
- Press to select a tool condition to be used.
 - Each time you press [▲][▼], the tool condition is switched as follows.



5 Cutting.

Set the Cut Conditions

Set the condition to cut or to plot with a pen.

Setting contents of cutting condition (CUT1 to 7):

Cut speed (SPEED)/ cut pressure (PRESS)/ OFFSET value/ Half cut

Setting contents of plotting condition (PEN):

Plotting speed (SPEED)/ pen pressure (PRESS)

Press the <u>SEL</u> key in LOCAL to display the "TOOL" menu.

Press the FUNC1 (TOOL).

Press to select a tool condition to be used, and press the ENTER key.

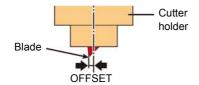
Press to move the cursor to cutting speed, and press the ENTER key.

Press to set the cutting speed, and press the ENTER key.

- Set the moving speed of the tool for cutting or pen plotting.
- Setting values: 1 to 10cm/s (settable by 1cm/s step)
 15 to 30cm/s
 (settable by 5cm/s step)
- Press to move the cursor to cutting pressure, and press the ENTER key.
 - Press to set the cutting pressure, and press the ENTER key.
 - Set the pressure that the tool presses the sheet for cutting or pen plotting.
 - Setting values: 10 to 20g (settable by 2g step)
 25 to 100g (settable by 5g step)
 110 to 450g (settable by 10g step)



- When the cutting (plotting) pressure setting is completed, proceed to the setting of the
- OFFSET value. When you set the plotting condition (PEN), you cannot set the OFFSET value and half cut. Proceed to the Step 16.
- The maximum pressure at selecting PEN is 150g.
- Press v to move the cursor to OFFSET, and press the ENTER key.
- Press v to set the offset value, and press the ENTER key.
 - When you set the cutting condition (CUT1 to 7), set the distance between the center of the cutter holder and the blade tip.
 - Setting values : 0 to 250 (0.00 to 2.50mm) (settable by 0.05mm step)





- Nothing is displayed on the LCD if "0" is specified.
- Press to move the cursor to half cut, and press the ENTER key.
- Press to set ON/OFF, and press the ENTER key.
 - When you perform half cut, select ON and proceed to the Step 11.
 - When you do not want to set AUTO CUT, select "OFF" and proceed to Step 17.
- Press to move the cursor to pressure setting of left part (not to be cut), and press the ENTER key.
- Press to set pressure, and press the ENTER key.
 - Set the pressure of the left part (not to be cut) when performing half cut.
 - Setting values: 0 to 450g (settable by 5g step)
- Press v to move the cursor to the setting of length to be left, and press the ENTER key.
- Press to move the cursor to the setting of length to be left, and press the ENTER key.
 - Set the length to be left not to be cut when performing half cut.
 - Setting values : 0.1 to 5mm (settable by 0.1mm step)
- Press to move the cursor to the setting of cut length, and press the ENTER key.
- Press to set the cut length, and press the ENTER key.
 - Set the length to be cut when performing half cut.
 - Setting values: 5 to 150 mm (5 to 20mm: 1mm step, 20 to 150mm: 5mm step)
- Press END/POWER the key to register the set contents.
 - · Return to the local.



 The set value is retained even when the power is turned "OFF".

Test Cutting

Execute test cutting to confirm the tool conditions.

In the test cutting, the machine cuts two squares.





 When the cutter blade is worn and dull, you can use it temporarily by enhancing the value of PRESSURE. However, you are recommended to replace the worn cutter blade with a new one to ensure a satisfactory cutting quality.



When the tool conditions are proper, the results of test cutting are as follows:

- The two squares are cut perfectly.
- · The base media remains uncut.
- · No corner of the squares is rounded.
- · No corner of the squares is curled-up.



Press the SEL key in LOCAL to display the "TEST CUT" menu.



Press the FUNC2 (TEST CUT).



Press the ENTER key .

 The machine will execute test cutting and return to the local mode display.

Change the settings of the cut conditions according to the test cutting results.

Cut Condition	Cause	Solution
Some parts	The blade is lifted above the media	Lower the speed. (P.2-25).
uncut.	because of a too high cutting speed.	Tighten up the knob for the tool holder. ((2) P.2-22).
The base	Too high pressure.	Lower the pressure. (P.2-25).
media has been cut.	Too large protrusion of the cutter blade.	Adjust the protrusion of the cutter blade. ((2) P.2-21).
Any of the square corners rounded.	Improper OFFSET value.	Adjust the OFFSET value so that it suits the cutter blade in use. (P.2-25).
	The protruded cutter blade is too much.	Adjust the protrusion of the cutter blade. ((2) P.2-21).
Any of the	The cutting pressure is higher.	Adjust the cutting pressure. (P.2-25).
square corners curled-up.	[COMPENSATIO N PRESSURE OFFSET value] is large. More than two out of the above fall under this category.	Adjust the ADJ-PRS OFS value. (P.4-9).

Cutting Data

You can start cutting after completion of setting up a tool, a media and the tool conditions.

Setting the origin

The origin is a reference point for the cutting data. When the origin is changed, set the new origin before starting cutting.

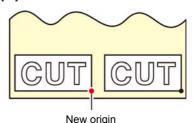


 Change the origin before cutting the next data; otherwise, cutting will be performed over the previous data.



Move the carriage to a point at which the new origin is to be set.

- [▶] : Moves the carriage to the right.
 - []: Moves the carriage to the left.
 - [**\(\)**]: Feeds the media to the rear of the machine.
 - [▼] : Feeds the media to the front of the machine.





Press the **ENTER** key to register the origin.

 The display panel will show the effective cutting area first and the tool conditions.

Start cutting



After completion of setting the origin, press the (FUNC3) (REMOTE).

• The screen changes to REMOTE, and data can be received from the PC.



Transmit data to be cuted from the PC.

 On receiving the data, the machine performs cutting while displaying the remaining amount of the data

Bringing the cutting to a halt

To temporarily stop the machine during cutting, press the [FUNC3] (REMOTE) key once. Another press of the key will make the machine resume cutting.



 In case the media has slipped off the machine during cutting operation, turn off the power immediately; otherwise, the main unit may be damaged.



 You cannot use the functions that include operations while pausing. In this case, let the machine complete the cutting for the remaining portion of the data or discontinue the cutting by executing data clearing (P.2-27).

Stopping a Cutting Operation (Data Clear)

If you want to stop a cutting operation of the received data, clear the data.



- When clearing the data, the process will not restart even if you press the [FUNC3] (REMOTE) key.
- After clearing the data, switching to the remote mode and receiving another data, new data will be cut.



- Do not perform the data clearance during the data transmitting.
- Even after performing the data clearance, the received data is stored in the reception buffer.



Press the SEL key, and press the FUNC3 (DATA CLEAR) in LOCAL.



Press the ENTER key.

 The reception buffer is cleared, and the present mode returns to LOCAL..

Removing the Cutter Unit Temporarily

When cutting or printing-with-a-pen job is finished, the cutter unit is on the platen.

To check the result of cutting (printing-with-a-pen) or to set a new medium, follow the steps below to remove the cutter unit from the platen temporarily.



Press the SEL key to display the "TEST CUT" menu.



Press the (FUNC2) (TEST CUT).



Press to select the "CUTTER HEAD MOVE/RETRACT", and press the ENTER key.

- The cutter unit moves from on the platen to the left end of the machine.
- When the coupling unit is connected to the printer unit, switch the destination to the cutter unit, and move to move it to the origin position. (Moving the cutter unit)

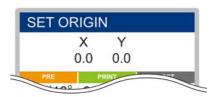
Cutting a media

By using the keys on the operation panel, you can cut the media at any position.



In Local, Press (A) (V) (1).

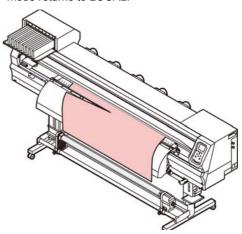
- It enters into the origin setting mode.
- By pressing [▼] , feed the media to the cutting position.





Press the FUNC2 ENTER key.

- The media is cut.
- When the cutting has been completed, the current mode returns to LOCAL.



Chapter 3 Setup



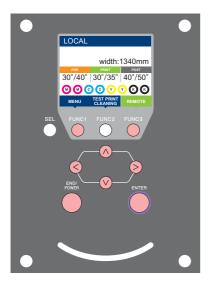
This chapter

describes various settings of this machine.

About SETUP MENU3-3	When using 600 cc cartridge 3-15
SETUP MENU table 3-4	Setting a LANGUAGE 3-17
Register the optimal print conditions to	Setting Time 3-17
match the use	Setting Unit (Temperature/ Length) 3-18
Setting of Media Correction 3-6	Setting a KEY BUZZER 3-18
If the Positions of Dots Shift	Setting the CONFIRM. FEED 3-18
Setting the HEATER 3-7	Setting the SPACE FEED MODE 3-18
Setting of Logical Seek 3-8	Set the network 3-19
Setting of Drying Time	Setting event mail function 3-19
Setting of Left and Right Margins 3-9	Initializing the Settings 3-23
Setting of Vacuum Fan 3-9	About NOZZLE CHECK MENU3-24
Setting of Feed Speed 3-9	INFORMATION MENU table 3-24
Setting of MAPS	Printing Check Flow 3-25
Setting Auto Cleaning 3-10	Printing Operations at "Nozzle Missing"
Setting Interval wiping 3-10	Judgment and Error Occurrence 3-25
About MACHINE SETUP MENU3-11	Setting the Printing Check 3-26
MACHINE SETUP MENU table 3-12	Setting the NOZZLE RECOVERY 3-26
Setting a AUTO Power-off 3-13	Setting the Judgement Condition 3-26
Setting Take-up unit 3-13	About INFORMATION MENU3-27
Setting Top Blower 3-13	INFORMATION MENU table 3-28
Setting the Display of Media Residual 3-14	Displaying the Information 3-28
Setting the Display of Media Detection 3-14	

About SETUP MENU

On SETUP MENU, you can set the print conditions to match the media you usually use.



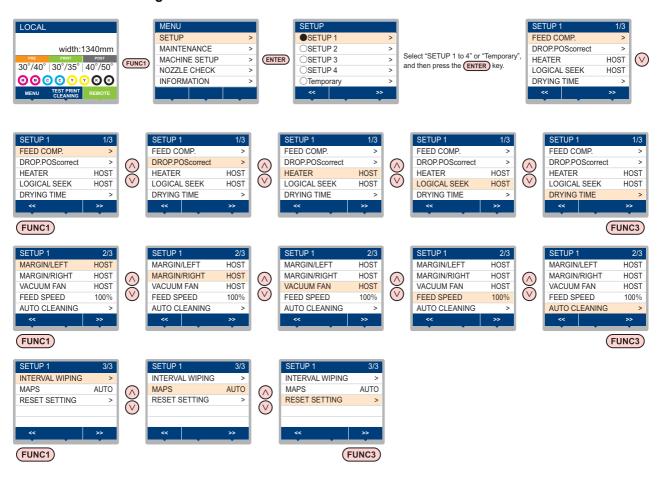
FUNC1 : Press this to select SETUP MENU, or to switch to the previous screen.

(FUNC3): Press this to switch to the next screen.

 $\bigcirc\!\!\!\bigcirc$: Use these to select a setting item.

ENTER : Press this to confirm a setting, etc..

♦ SETUP MENUs at-a-glance



SETUP MENU table



- For each setting item below, you can set it so that the machine may operate according to the value specified when you printed from your RIP software in the connected host PC.
- Set Item: DRYING TIME/ MARGIN (LEFT and RIGHT)/ VACUUM FAN/ FEED SPEED
- When you operate the machine according to the contents specified with the RIP software, set each
- item to "Host" when registering this machine type. When you set it other than "Host", the machine operates according to the machine setting.
- For the specifying method with the RIP software, refer to the operation manual of the RIP software.

Function name		Set value	When no instruc- tion from RIP exists *1	Outline		
FEED COMP. (FEED COMP. (P.3-5)		-9999 to <u>0</u> to 9999		Used to print a pattern for correcting a media- feeding rate and correct it.	
DROP.POScori	rect (@	P	.3-6)	-40.0 to <u>0</u> to 40.0		Used to adjust the dot position in go and return printing.
	PRE			OFF/ 00 to 00 %0		
HEATER	PRIN	Γ		OFF/ 20 to 60 °C (OFF/ 68 to 140°F)		Sets each heater's conditions.
(@P P.3-6)	POST	•		(0117 00 10 140 1)		
(28 110 0)	OFF 1	ГІМЕ		NONE/ 0 to 90 min		Set the time from the print completion until the heater to be OFF.
LOGICAL SEE	K (@	P.3	-7)	HOST/ON / OFF	OFF	Sets the scan movable area during printing.
DRYING TIME	SCAN	l		HOST/0.0 to 9.9 sec	0 sec	Sets the time to wait for ink drying.
(@P P.3-7)	PRIN	ΓEN	ID	HOST/0 to 120 min	0 min	Sets the ink drying time after printing.
MARGIN/LEFT	MARGIN/LEFT (P.3-8)		-10 to 85mm	0 mm	Sets a non-printing area along the right and left	
MARGIN/RIGH	IT (🕾	P.3	-8)	-10 to 8511111	0 mm	edges of the media.
VACUUM FAN	VACUUM FAN (@P.3-8))	HOST/ WEAK/ STANDARD/ STRONG	STRONG	Sets the absorbability of the media.
FEED SPEED	*2 (Œ	P.3	-8)	10 to <u>100</u> to 200 %	100 %	Changes the media feeding speed in printing.
	OFF, FI	LE, L	ENGTH, TIME			
	F	ILE	INTERVAL	1 to 1000		
AUTO			TYPE	NORMAL/ SOFT/ HARD		
CLEANING	L	ENG	TH INTERVAL	0.1 to100.0m		Sets the automatic cleaning operation for the head performed before printing or during printing.
(Œ P.3-9)			TYPE	NORMAL/ SOFT/ HARD		performed before printing or during printing.
	Т	IME	INTERVAL	10 to 120 min		
TYPE		NORMAL/ SOFT/ HARD				
INTERVAL WIPING (P.3-9)		3 to 255 min, OFF		Sets the wiping operation performed after printing is completed.		
AUTO						
MAPS ((227 P.3-8)	MANUA	Speed 50 \sim 100%		50 ∼ <u>100</u> %		Change the effect of "MAPS".
Smoothing lev		Smoothing level	<u>0</u> ~ 100%			
RESET SETTING (P.3-5)		The configulation in the setting	s 1-4 can be	reset ondividually.		

^{*1.} This is the setting value to be used for printing when setting value is not specified at the RIP software (host) side, or, you give priority to the setting value at the machine side.

^{*2.} When you set this to "100%" or more, required time for completion of printing will be shortened. However, enough drying time cannot be ensured and it may affect the image quality.

Register the optimal print conditions to match the use

In this machine, you will be able to register print conditions, SETUP 1 to 4 individually to match the media in advance.

For example, after print on different types of media, return to the media always use. In such case you can set the optimum printing conditions by simply selecting the registered SETUP 1 to 4.



- Print conditions that can be pre-registered with the machine are the four types, "SETUP 1" to "SETUP 4"
- If you print with the print condition which do not often use, you will be able to set the print conditions by selecting "Temporary".
 If turn on the power again, settings in "Temporary" will return to the original state when it was purchased.

Also if turn on the power again in "Temporary" state, it will be the state in selecting "SETUP 1".

Register the print conditions to SETUP 1 to 4

- Press the (FUNC1) (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - The item selected indicates

 and others show
 - SETUP MENU will be displayed.
- Press to select and set each item in the setup menu list.
 - Please see the reference page in the setup menu list for detailed configuration procedure.

How to use [Temporary]

[Temporary] is not only to set the print condition to be used only once, but also can be used for partial change of the registered SETUP "1 to 4", or for reflecting the print conditions set by the [Temporary] to SETUP 1 to 4.

Register the print conditions in [Temporary]

Registration of the print conditions to [Temporary] can be done as the same method as to SETUP 1 to 4.

- Press the FUNC1 (MENU) → ENTER key in LOCAL.
- Press to select "Temporary", and press the ENTER key.
 - SETUP MENU will be displayed.
- Press to select and set each item in the setup menu list.
 - Please see the reference page in the setup menu list for detailed configuration procedure.

Copy the contents of SETUP 1 to 4 to [Temporary]

You can use it with changing the part of registration contents of SETUP 1 to 4.

Select "RESET SETTING" then "COPY" from the registration screen of [Temporary], and specify the copy source (SETUP 1 to 4).

- Press the (FUNC1) (MENU) → ENTER key in LOCAL.
- Press to select "Temporary", and press the ENTER key.
 - · SETUP MENU will be displayed.
- Press the (FUNC1) (<<).
- Press to select "RESET SETTING", and press the ENTER key.
- Press to select "COPY", and press the ENTER key.
 - Selection screen of the copy source will be displayed.
- Press to SELECT the copy source (SETUP 1 to 4) and press the ENTER key.
 - · Confirmation screen of the copy will be displayed.
- Press the ENTER key.

 Settings selected in step 5 is copied to Temporary.
- Press v to select the setting item to be changed, and press the ENTER key.
 - Please see the reference page in the setup menu list for detailed configuration procedure.
- Reflect The Content Set In [Temporary] To Setup 1 To 4
- Press the FUNC1 (MENU) LOCAL.
- Press to select "Temporary", and press the ENTER key.
 - SETUP MENU will be displayed.
- Press to select and set each item in the setup menu list.
 - Please see the reference page in the setup menu list for detailed configuration procedure.
- Display the last page of Temporary and select "SAVE SETTING", and press the ENTER key.
 - Selection screen of the save location will be displayed.
- Press to select the location selected (SETUP 1 to 4), and press the ENTER key.
 - Save confirmation screen will be displayed.

- 6
- Press the ENTER key.
- Settings of Temporary will be saved to the location selected in step 5.
- 7

Press the <u>END/POWER</u> key several times to end the setting.

Reset the registered contents

Reset the contents registered to SETUP 1 to 4.

- 1
- Press the (FUNC1) (MENU) → ENTER key in LOCAL.
- 2
- Press to select SETUP 1 to 4 to be reset and press the enter key.
- · SETUP MENU will be displayed.
- 3

Press the (FUNC1) (<<).

- 4
- Press to select "RESET SETTING", and press the ENTER key.
- Confirmation screen of reset settings will be displayed.
- 5

Press the **END/POWER** key several times to end the setting.

Setting of Media Correction

Correct the media feed amount to match the type of media you are using.

If the correction value is not appropriate, stripes may appear on the printed image, thus resulting in a poor printing.



 On completion of [MEDIA COMP.] during use of a roll media, the media returns to the printing origin.
 Then the roll media in the rear of this machine will slacken.

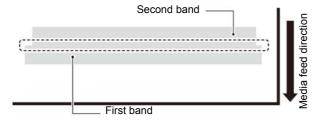
Before printing, take up the slack in the roll media by hand; a loose roll media can result in an inferior image quality.

• When printing with a take-up device, set the media first and perform media correction.

A pattern for media correction is printed and a mediafeeding rate is corrected.



- Two bands are printed in the correction pattern.
- Make adjustment so that an even color density is obtained in the boundary between the two bands.



- 1 Set a media. (@ P.2-4)
- Press the (FUNC1) (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - SETUP MENU will be displayed.
- Press to select "FEED COMP", and press the ENTER key.
- Press ENTER the key twice to print a correction pattern.
- 6 Check the correction pattern and enter a correction value.
 - A screen for entering the correction value will be displayed.
 - Enter a correction value in "+":
 The boundary between the two bands is widened.
 - Enter a correction value in "-":

 The boundary between the two bands is narrowed.
 - When you change the correction value by "30", the width of the boundary changes by about 0.1 mm.
- Press the ENTER key.
 - Print a correction pattern again and check it.
 - When media correction is needed, perform the operation in Step 6 to make correction.
- Press the END/POWER key several times to end the setting.

Correcting Media-feeding during Printing

A media-feeding rate can be corrected even in the remote mode or when image data is printed.

- Press the (FUNC1) (ADJUST) → ENTER key in the Remote.
- Press to enter a corrected feeding rate.
 - · Corrected feeding rate: -9999 to 9999
 - The value entered here is reflected in the corrected feeding rate soon.
- 3

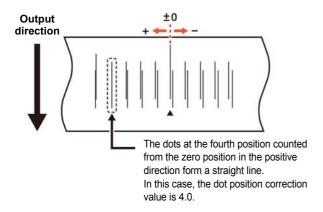
Press the ENTER twice key.

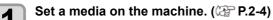
- key. The changed value is registered.
- When you press the [ENTER] key instead of the [END] key, the value entered here will be valid temporarily. (When you perform media detection again or turn the power OFF, the correction value is cleared.)

If the Positions of Dots Shift...

When the condition for printing (media thickness/ink type/ etc.) has been changed, perform the following operation to correct the ink drop position for bidirectional (Bi) printing and obtain the proper printing result.

Example of a Printed Pattern





• In order to print a pattern, a media that is 500 mm wide at least is necessary.



- Press to select SETUP 1 to 4, and press the (ENTER) key.
 - · SETUP MENU will be displayed.
- Press (*) to serect "DROP.POScorrect",
- and press the ENTER key.
- Press the ENTER key. · Start the pattern printing.
 - · Multiple test patterns are printed. (The printed patterns are called Pattern 1, Pattern 2, Pattern 3... in the order of printing.)
- Press (to enter a correction value 6 of Pattern 1, and press the (ENTER) key.
 - · Corrected feeding rate: -40 to 40
 - Check the test patterns. The position where an outward feeding line and a return feeding line become one straight line is the correction value.
 - When the correction value in not between -40 and 40, adjust the height of the printing heads and perform the operations in Step 2 and later.
- In the same way as in Step 4, enter a correction value of Pattern 2 and later, and press the (ENTER) key.
- Press the END/POWER key several times to end the setting.

Setting the HEATER

Pre-heater / Print heater / Post-heater are equipped on the platen.

Type of HEATER	Function
Pre-heater	Used for pre-heating of the media prior to printing to prevent rapid temperature changing.
Print-heater	Improves the image quality in printing.
Post-heater	Dries ink after printing.

Here, in addition to the temperature setting of each heater, the time from the print completion until the heater to be OFF can be set up.

- Press the FUNC1 (MENU) → ENTER key in LOCAL.
- Press (to select SETUP 1 to 4, and press the ENTER key.
 - SETUP MENU will be displayed.
- Press (**) to serect "HEATER", and press the (ENTER) key.
- Set each heater temperature by pressing
 - Heater selecting : by the [▲][▼] keys • Temperature setting : by the [◄][►] keys
- Press to serect "OFFTIME", and press the ENTER key.
- Press , set the time until the 6 heater to be OFF after printing, and press the ENTER key
- Press the **END/POWER** key several times to end the setting.

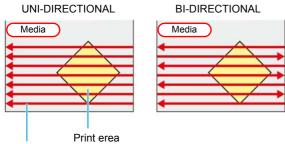


- press [FUNC3] (off) in Step 3 to turn all heaters OFF
- or, press [FUNC1] to raise all heaters by 10°C.
- · If press keys or receive data during OFF is set in step 6, automatically returns to the set temperature.

Setting of Logical Seek

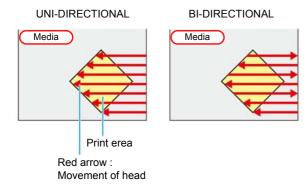
The head's operation varies depending on the LOGICAL SEEK settings, as shown in the figure below.

Movement of heads when LOGICAL seek is OFF



Red arrow : Movement of head

Movement of heads when LOGICAL seek is ON



- Press the FUNC1 (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - SETUP MENU will be displayed.
- Press to serect "LOGICAL SEEK", and press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - Set value : HOST / ON / OFF
- Press the END/POWER key several times to end the setting.

Setting of Drying Time

In the drying time setting, the following items for ink drying time are set.

- · SCAN
- : Ink drying time for each scanning is set. (During bidirectional printing, the machine stops for a certain period of time specified for each of the outward and return scanning.)
- PRINT END: Ink drying time for after printing is set.



- When you give priority to the setting at the RasterLink side, make the setting value "Host".
- "SCAN" set in this machine is displayed as "Pause Time per Scan" in the RasterLink.
- You cannot specify the print end at the RasterLink side. When you set this machine to "Host", printing will be performed in "PRINT END= 0 sec." status.
- Press the (FUNC1) (MENU) → (ENTER) key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - SETUP MENU will be displayed.
- Press to select "DRYING TIME", and press the ENTER key.
- Press the ENTER key.
- Press to set drying time, and press the ENTER key.
 - Set the drying time for canning and after printing is completed. To enable the drying time specified in your RIP, select "Host".
 - Scanning setting value:
 Host or 0.0 sec. to 9.9 sec.
 - Print end setting value: Host or 0 sec. to 120 min.
 - Item selecting:by the [▲][▼] keys
 - Time setting:by the [◀][▶] keys
- Press the <u>END/POWER</u> key several times to end the setting.

Setting of Left and Right Margins

Set a non-printing area along the left and right edges of the media.

The offset value against the standard margin 15mm is set hereupon.



- When you give priority to the setting at the RIP software side, make the setting value "Host".
- You cannot specify the margins at the attached RIP software (RasterLink). When you use the RasterLink, if you set this machine to "Host", printing will be performed in "Margins for right and left off set value= 0 mm" status.
- The margin setting is reflected when the media width is detected.
- Press the FUNC1 (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - · SETUP MENU will be displayed.
- Press the (FUNC3) (>>).
- Press v to serect "Margin/L" or "Margin/R", and press the ENTER key.
- Press the ENTER key.
 - Set value: HOST / -10 to 85 mm
- Press the <u>END/POWER</u> key several times to end the setting.



 Pay attention to that printing may start on the media press if a right and left margin is set to 5 mm or less when the media press is used in printing.

Setting of Vacuum Fan

Sets the absorbability of the media.

By setting the absorption power to match the media, you can prevent print errors due to media rise-up.

- Press the FUNC1 (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - SETUP MENU will be displayed.
- Press the (FUNC3) (>>).
- Press v to serect "VACUUM FAN", and press the ENTER key.

- Press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - Set value: HOST/WEAK/STANDARD/STRONG
- Press the <u>END/POWER</u> key several times to end the setting.

Setting of Feed Speed

Changes the media feeding speed in printing.

- Press the (FUNC1) (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - · SETUP MENU will be displayed.
- Press the (FUNC3) (>>).
- Press to serect "FEED SPEED", and press the ENTER key.
- Press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - Set value : HOST / 10 to 200%
- Press the END/POWER key several times to end the setting.

Setting of MAPS

The MAPS (Mimaki Advanced PassSystem) function to disperse the pass boundary to make the feeding stripes less visible.

With this function, the degree of application of MAPS can be changed.



- MAPS provides two setting options: "AUTO" and "MANUAL" MAPS applies the one most suitable for your printing conditions, so please normally use "AUTO" (default value).
- In order to use this function, Mimaki driver Ver 4.2.0 or higher is required.



- Changing the MAPS settings may change the color tone. Check the effects before use.
- MAPS may not be effective depending on image to be printed. Use it after checking effect in advance.

Setting Auto Cleaning

You can set the machine so that it counts the number of printed files or the length or time after printing has been completed, and performs cleaning automatically if required. You can select the auto cleaning setting from three types below:

- PAGE : Set the cleaning intervals by the number of printed files.
- LENGTH: Set the cleaning intervals by the printed length.
- TIME : Set the cleaning intervals by the printed time.

The machine can perform a stable printing operation with its heads always kept clean.

Besides, automatic nozzle check after auto cleaning can be set. (Cleaning Check function)

The machine can perform a stable printing operation with its heads always kept clean.

Press the (FUNC1) (MENU) → ENTER key in LOCAL.

Press to select SETUP 1 to 4, and press the ENTER key.

• SETUP MENU will be displayed.

Press the FUNC3 (>>).

Press to select "AUTO CLEANING", and press the ENTER key.

Press ENTER key, and press to select the type of auto cleaning.

- There are "PAGE", "LENGTH" and "TIME" for auto cleaning.
- FILE:When the set number of prints has been completed, the machine performs head cleaning automatically.
- **LENGTH**:When the set length has passed, the machine performs head cleaning automatically.
- **TIME**:When the set time has passed, the machine performs head cleaning automatically.
- If you do not set auto cleaning, first select "OFF" and proceed to the Step 7.
- Press ENTER key, and press to select the cleaning interval.
 - Depending on the auto cleaning type selected in the Step 3, the setting value differs.
 - For FILE : 1 to 1000 file
 - For LENGTH: 0.1 to 100.0m (in 0.1m increment)
 For TIME : 10 to 120min (in 10min increment)
 - Press ENTER key, and press (*) to select the cleaning type.
 - Set Value : NORMAL/ SOFT/HARD
- Press ENTER key, and press to select "Cleaning Check".
- Press ENTER key, and press v to select set value.

· Set Value : ON/ OFF

- Press the ENTER key.
- Press the END/POWER key several times to end the setting.



 Depending on the state of the heads, etc., the image quality deterioration may not be improved even with this function performed. In this case, contact our service office or the distributor in your region.

Setting Interval wiping

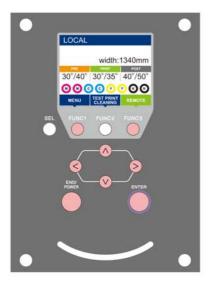
When the set time has passed, nozzle face of the head is cleaned automatically to remove ink droplets on the nozzle face.

In case that deflection, nozzle missing, or symptom which ink droplets fall down occurred, set the interval between each operation shorter.

- Press the (FUNC1) (MENU) → ENTER key in LOCAL.
- Press to select SETUP 1 to 4, and press the ENTER key.
 - SETUP MENU will be displayed.
- Press the Func1 (<<) .
- Press v to serect "INTERVAL WIPING", and press the ENTER key.
- Press v to set intervals.
 - Set Value: 3 to 255 Minutes, OFF
 - When [OFF] is set, periodical wiping is not executed.
- Press the ENTER key.
- 7 Press the END/POWER key several times to end the setting.

About MACHINE SETUP MENU

Common settings are functions for using this machine easily. The following items can be set in Machine settings.



FUNC1: Press this to select MACHINE SETUP MENU, or to switch to the previous screen.

(FUNC3): Press this to switch to the next screen.

(): Use these to select a setting item.

(ENTER): Press this to confirm a setting, etc...

◆ MACHINE SETUP MENUs at-a-glance



MACHINE SETUP MENU table

Function name		Set v	alue	Default	Meaning	
AUTO Power-off (P.3-12)		NONE/ 10 ~ 600min		30min	When no operation has been performed for the set time, the power supply is automatically turned "OFF".	
TAKE-UP UNIT	TAKE-UP UNIT	ON/ OFF		ON	For setting whether the take-up unit is used or not used.	
(ﷺ P.3-12)	TAKE-UP SW	Continuance/ Te	mporary	Continua nce	Set the operation method when press the ON / OFF button on the take-up unit.	
Drying/Exhaust FA	AN	Set this when yo supplied with the			xhaust fan. For details, refer to the user manual	
TOP BLOWER(F P.3-12)	ON / OFF		ON	Set the operation of the top blower in print.	
(ON)	STRENGTH	AUTO/WEAK/ST	ANDARD	AUTO	Set the strength of the top blower in print.	
MEDIA REMAIN (Œ P.3-13)	ON/ OFF		OFF	You can control the remaining amount of media.	
	DETECTION TYPE	AUTO/MANUAL		AUTO	Set the media detection method.	
MEDIA DETECT (P.3-13)	USE PR NUMBER QUERY	ON / OFF		ON	Set whether or not to enter the number of the pinch rollers you are using during media detection.	
600cc cartridge *1	case weight				Setting the weight of eco-cases.	
(@PP.3-14)	cartridge weight				Setting the weight of cartridges.	
LANGUAGE (P.3-16)	English / 日本語		English	Displayed language is changed.	
TIME (P.3-16)	+4h ~ -20h		Japan time	Time difference is corrected.	
UNIT/ TEMP. (🏖	P.3-17)	°C (Centigrade)/	°F (Fahrenheit)	°C	A unit for displaying temperature is set.	
UNIT/ LENGTH (Ĉ	æ P.3-17)	mm / inch		mm	A unit for displaying length and area is set.	
KEY BUZZER (🏖	P.3-17)	OFF / ON		ON	A buzzer sound when keys are pressed is set.	
CONFIRM. FEED	CONFIRM. FEED ((P.3-17)		ON / OFF		Set whether media feeding is performed for checking the result of the test printing etc. or not.	
SPACE FEED MC	DE (@P.3-17)	INTERMITTENT / CONTINUOUS		INTERMI TTENT	Change the feed mode of the margin included in the image data.	
	Set the network.	•		•		
	Check IP Addr.	The IP address currently used by this machine is displayed.				
	Check MAC Addr.	The IP address of	currently used by	y this mach	ine is displayed.	
	DHCP	ON / OFF			When it is ON, the IP address given by the DHCP server is used.	
NETWORK (CP P.3-18)	AutoIP	ON / OFF			When it is ON, the IP address is determined by the AutoIP protocol. However, DHCP is ON, DHCP has priority.	
	IP Address *2	Set the IP addres	ss used by this r	machine.		
	Default Gateway *1	Set the default g	ateway used by	this machin	ne.	
	DNS Address *1	Set the DNS server address used by this machine.				
	SubNet Mask *1	Set the digit number of the subne				
	Mail Delivery (P.3-18)	ON / OFF		OFF	Set whether you send/ do not send the e-mail when the set event occurs.	
	(1.0 10)		ON / OFF	OFF	Set whether you send/ do not send the e-mail at the start of printing.	
		Print End Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail at the end of printing.	
EVENT MAIL	Select Event (P.3-19)	Error Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when a error occurs.	
		Warning Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when a warning occurs.	
		Other Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when an event other than the above occurs.	
	Mail Address (Æ P.3-19)	Set the e-mail address to which you send the event mail.		Alphanum characters	neric characters and symbols (within 96	
Message Subject ((22 P.3-19)		Set the characters to write in the subject of the event mail.		Alphanumeric characters and symbols (within 8 characters)		

Function name		Set value		Default	Meaning
		SMTP Address		Set the SMTP server.	
		SMTP Port No.		Set the SMTP port number.	
		SENDER ADDRESS		Set the e-mail address to be used as the sender mail address.	
			POP before SMTP		
EVENT MAIL	Server Setup (Car P.3-20)	Authentication	SMTP Authentication	Set the SN authentica	MTP server authentication method (SMTP tion).
			OFF		
		User Name *3		Set the us	er name used for the authentication.
		Pass Word *2		Set the password used for the authentication.	
		POP3 Address *4		Set the POP server.	
		APOP *3		Set ON/ OFF of APOP.	
	Transmit Test (P.3-21)	Send the test e-mail.			
RESET((P.3-22)					All setting values are returned to the status default.

- *1. It is not displayed when the 600cc cartridge is not set in the ink slot.
- *2. Settable when both of DHCP and AutoIP are [OFF]
- *3. Settable only when Auth. is not OFF
- *4. Settable only when Auth. is POP before SMTP

Setting a AUTO Power-off

When no operation has been performed for the set time, the power supply is automatically turned "OFF".

- Press the (FUNC1) (MENU) → (twice)
 → ENTER key in LOCAL.
 - · MACHINE SETUP MENU will be displayed.
- Press to select "AUTO POWER OFF", and press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - Set Value : none. 10 to 600min
- Press the END/POWER key several times to end the setting.

Setting Take-up unit

Set the operation method when press the $\ensuremath{\mathsf{ON}}$ / $\ensuremath{\mathsf{OFF}}$ button on the take-up unit.

Also, when the optional tension bar is installed, for setting whether the tension bar is used or not used.

- Press the (FUNC1) (MENU) (twice) (twice)
 - MACHINE SETUP MENU will be displayed.
- Press to select "TAKE-UP UNIT", and press the ENTER key.
- Press to select "TAKE-UP UNIT", and press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - Set Value : ON/ OFF

- Press to select "TENSION BAR", and press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - · Set Value : ON/ OFF
- 7 Press v to select "TAKE-UP SW", and press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - Set Value : Continuance/ Temporary Continuance :

Switching ON / OFF the winding operation when pressing the switch each time. (Take-up unit in operation does not stop until press again ON / OFF switch.)

Temporary:

Do the winding operation only while holding down the switch. (When release the switch, winding operation is stopped.)

Press the <u>END/POWER</u> key several times to end the setting.

Setting Top Blower

Set this to OFF if you are worried about the ink odor caused by the top blower. Note that setting this to OFF declines drying performance and may cause ink smudge.

- Press the (FUNC1) (MENU) (twice)
 - MACHINE SETUP MENU will be displayed.
- Press the to select "Top blower", and press the ENTER key.

3

Press to select ON, and press the ENTER key.

- · Sect "ON" and it allows to select "strength".
- "Select OFF to not set top blower. Proceed to Step 6.



Press to select "strength" and press the ENTER key.

· Set Value: AUTO / WEAK / STANDARD



- Basically, we recommend using the top blower by selecting "AUTO". An appropriate level of strength will be applied according to the ink type and profile*1 you are using.
 *1) When using RL6
- When using top blower in Sb54 ink set, if bleeding or the like occurs, set to "WEAK".
 When "WEAK" is selected, bleeding may be eliminated
- If you mind the smell of ink, use by turning the top blower setting OFF. Note that when the machine is used with the top blower setting turned OFF, its drying performance goes down.



Press the **END/POWER** key several times to end the setting.

Setting the Display of Media Residual

Whether the screen displays the remaining amount of a media is set.

When the media remaining amount display is turned to "ON"	the remaining amount of a media is displayed in Remote. (However, when a leaf media is used, the length of the media to be printed is displayed.)
When the media remaining amount display is turned to "OFF"	the remaining amount of a media is not displayed in the Remote.



- The amount of a media that has been fed by the printing and jog keys is reflected in the remaining amount of a media.
- The length of a media (initial value of the remaining amount) is entered when a roll media is detected. (APP P.2-11)
- The setting configured here does not become effective unless media detection is performed after the setting has been complete.



Press the Func1 (MENU) →▼ (twice)
→ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

Press v to select "MEDIA REMAIN", and press the ENTER key.

Press to select ON/OFF.

Press the ENTER key.

Press the (END/POWER) key several times to end the setting.

Setting the Display of Media Detection

Set the following two items in media detection settings.

Setting of Media Detection	When loading the media, set whether to detect the media width automatically (AUTO) or decide the print (or cut) range manually (MANUAL).
USE PR NUMBER QUERY	Set whether or not to enter the number of the pinch rollers you are using during media detection.



 When using the media that cannot be detected by the sensor, such as black cutting sheets, set the media detection setting to "MANUAL".



Press the Func1 (MENU) → (twice) → ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

2 Pre

Press the Func3 (>>).

Press to select "MEDIA DETECT", and press the ENTER key.

Press to select "MEDIA DETECT", and press the ENTER key.

5 Press **T** to select AUTO/MANUAL.

Press the ENTER key.

Press to select "USE PR NUMBER QUERY", and press the ENTER key.

Press to select ON/OFF.

Press the ENTER key.

Press the (END/POWER) key several times to end the setting.

(Important!)

 If you set the input of the number of pinch rollers "OFF" in step 8, the pinch roller pressure and the number of use, that has been set in RasterLink6, may not match in some cases. Set to "OFF" only when performing set of pinch roller pressure
 (P.2-11) in this machine.

When using 600 cc cartridge

Requisite for the 600 cc cartridge

Eco Case	The 600 cc ink pack and the attached ink chip are put in the eco case and used. This is referred to as "600 cc cartridge" in this manual.
600 cc Ink Pack	
Ink Chip *1	
Scale	To calculate the remaining ink quantity, input the weight of the eco case and the 600 cc cartridge into this machine. Use a scale for weight measuring. (To manage the accurate remaining ink quantity, prepare the scale that can weigh in one gram unit.)

^{*1.} Attached to the 600cc ink pack.

Mounting/removing 600 cc ink pack

Be sure to put the ink pack and the ink chip in the eco case for setting the 600 cc cartridge on the ink station.

Precaution for using 600 cc cartridge

Be sure to put the ink pack and the ink chip in the eco case for setting the 600 cc cartridge on the ink station.



- This machine cannot judge whether the 600 cc ink pack is in the eco case or not.
 When using the 600 cc cartridge, be sure to attach the ink pack.
- Setting an eco case without ink chip on the machine will break this machine. Be sure to attach the ink chip to the eco case before use.

Registering weight of eco case

Register the eco case weight on this machine to calculate the remaining ink quantity from the weight of the 600 cc cartridge.



Register the weight of the eco case in the following cases.

- For using the 600 cc cartridge for the first time
- When the case weight is changed by replacing the eco case.



 The weight of each eco case slightly differs respectively. To control accurate ink quantity, be sure to register the weight of each eco case.

When using 600 cc cartridge for the first time

When the 600 cc cartridge is set in the slot of the ink station, the weight registration function of the eco case automatically starts.



Measure the weight of the eco case.

- Measure the weight of the eco case only in advance.
- If the 600 cc ink pack is in the eco case, remove the 600 cc ink pack and perform measurement.



Set the 600 cc cartridge in the ink station.

- Mount the 600 cc ink pack and the ink chip on the eco case, and set it to the ink slot.
- The input screen for the weight of the eco case will be displayed.



Press to input the weight of the eco case.

- Press the [◄][▶] keys to move to another digit.
- Press the [▲][▼] keys to input the weight.



Press the ENTER key.

- For setting 600 cc cartridges in multiple slots, repeat the procedures in Step 2 and 3.
- After all registration is completed, the device will return to the status before the weight registration function was initiated.

When the eco case weight is changed

When the case weight is changed by replacing the eco case, register the weight of the eco case in the following procedures.



Press the Func1 (MENU) →▼ (twice)
→ ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

2

Press the FUNC3 (>>) .

3

Press to select "600cc Cartridge", and press the ENTER key.

- When the 600 cc cartridge is not set,
 - " 600 cc Cartridge" will not be displayed.
- It is recommended to measure the weight of the eco case in advance and perform the procedure from the Step 3.



Press the ENTER key.

5

Press and Func3 (>>) key, to select the [Slot].

• The selected slot is highlighted.



Press the ENTER key.

7

Press to input the weight of the eco case.

- Press the [◄][▶] keys to move to another digit.
- Press the [▲][▼] keys to input the weight.



Press the ENTER key.

- The slot selection screen is displayed again.
- When you want to register the weight of another slot continuously, repeat the Step 4 to select a slot.



Press the **END/POWER** key several times to end the setting.

Registering the total weight of the ink cartridge

When you have to correct the amount of remaining ink, follow the steps below to register the total weight of the ink cartridge.



Press the (FUNC1) (MENU) → (twice)
→ (ENTER) key in LOCAL.

· MACHINE SETUP MENU will be displayed.

2

Press the FUNC3 (>>).

3

Press to select "600cc Cartridge", and press the ENTER key.

- When the 600 cc cartridge is not set,
- " 600 cc Cartridge" will not be displayed.
- It is recommended to measure the weight of the eco case in advance and perform the procedure from the Step 3.



Press , and press the ENTER key.



Press and FUNC3 (page >) key, to select the [Slot].

• The selected slot is highlighted.

6

Press the ENTER key.



Press to input the weight of the cartridge.

- Press the [◀][▶] keys to move to another digit.
- Press the $[\blacktriangle][\blacktriangledown]$ keys to input the weight.

8

Press the ENTER key.

- The slot selection screen is displayed again.
- When you want to register the weight of another slot continuously, repeat the Step 4 to select a slot



Press the <u>END/POWER</u> key several times to end the setting.

When [Ink Level low] is displayed

When quantity of the remaining 600 cc ink becomes low, a warning [Ink Level] appears.

Enter the weight of the cartridge with the Ink Level Set function.



- This machine recalculates usable amount of remaining ink by entering the weight of the 600 cc cartridge.
- Ink Level Set function starts by resetting the 600 cc cartridge indicating [Ink Level] warning in the local mode or remote mode (during waiting or printing).
- Weight the cartridge exactly down to the gram.
 Entering a larger weight than the actual one may cause Nozzle Drop Out.

Using Ink Level Set function



If [Ink level low] is displayed, remove the 600cc cartridge and measure the weight of the 600cc cartridge.

 Be sure to measure the weight of the eco case including the 600 cc ink pack.



Displays the cartridge causing [Ink Level] warning.

Upper line: Ink color being set Lower line: Cartridge condition

" - " No error

"L" Ink Level Low (low)

"E" Ink Level End (end)



- Use the "E" display as a guide for replacing the ink pack.
- If ink remains much in the ink pack even when "E" is displayed, proceed to the Step 2 and the subsequent steps.



Ink in the ink pack cannot be completely used up.
 To prevent ink supply errors, about 30 cc of ink must remain in the ink pack.



Reset the 600 cc cartridge.



Press .



Press to input the weight of the 600cc cartridge.



Displays the set number of times of weight to the cartridge being operated.

- Press the [◄][▶] keys to move to another digit.
- Press the [▲][▼] keys to input the weight.



Press the (ENTER) key twice.

- · Usable amount of remaining ink is recalculated.
- The contents displayed differ depending on the amount of remaining ink.
- (1) When ink still remains
 - Return to the local mode or the remote mode.
 - [Ink Level] warning disappears and the state of the 600 cc cartridge that Ink Level Set function was performed changes to [INK NEAR END] warning.
 - [INK NEAR END] warning can be checked on the guidance function. (P.3-27)
- (2) When no ink remains
 - A message for replacing the ink pack is displayed.
 - Press the [ENTER] key to return to the local mode or the remote mode.
 - [Ink Level] warning is still displayed and the state of the 600 cc cartridge that Ink Level Set function was performed changes to [INK END] warning.
 - [INK END] warning can be checked on the guidance function. (P.3-27)



- Once a message for replacing the ink pack appears, immediately replace the target ink pack with a new one. (Usable ink has been used up.)
- Ink in the ink pack cannot be completely used up. To prevent ink supply errors, about 30 cc of ink must remain in the ink pack. (Before shipping, more than 630 cc of ink is filled in the ink pack to use 600 cc.)

When an error occur in the Step 5

This function stores the calculated quantity of remaining ink in the ink chip of the 600cc cartridge.

If the 600cc cartridge is removed or there is a problem on the contact of this machine and the ink chip, the data storage in the ink chip cannot be performed. In this case, the error message "ERROR 614 Preservation Fail" will be displayed.

If the message is displayed, reinsert the 600cc cartridge and follow the procedures from the Step 2 again.

Error when performing maintenance function

When performing the maintenance function such as the head cleaning or the ink filling for the 600 cc cartridge, selected functions can be performed if the quantity of remaining ink is enough to execute the function, even if the ink near end occurs.

If the quantity of remaining ink is not enough, a error message "ERROR 614 Preservation Fail" appears, and selected maintenance function is not performed.

Setting a LANGUAGE

You can change the displayed language.



MACHINE SETUP MENU will be displayed.

Press the (FUNC3) (>>).

Press to select "LANGUAGE", and press the ENTER key.

Press to select language, and press the ENTER key.

Press the (END/POWER) key several times to end the setting.

Setting Time

You can set time of your country (time difference).

Press the (FUNC1) (MENU) → (twice)
→ ENTER key in LOCAL.

· MACHINE SETUP MENU will be displayed.

Press the (FUNC3) (>>).

Press v to select "TIME", and press the ENTER key.

Press to enter time, and press the ENTER key.

 Year/Month/Day/Time selecting: by the [◄][▶] keys.

 Year/Month/Day/Time inputting: by the [▲][▼] keys.

Press the (END/POWER) key several times to end the setting.



-20 hours to +4 hours can be set.

Setting Unit (Temperature/ Length)

Units used by this machine are set.



• MACHINE SETUP MENU will be displayed.

2

Press the (FUNC3) (>>).

Press to select "UNIT/TEMP." or "UNIT/LENGTH", and press the ENTER key.

Press to select a set value, and press the ENTER key.

Set value of tempture : °C / °F
 Set value of length : mm / inch

Press the <u>END/POWER</u> key several times to end the setting.

Setting a KEY BUZZER

You can turn off the buzzer sound when pressing the key.

Press the (FUNC1) (MENU) → (twice)
→ ENTER key in LOCAL.

· MACHINE SETUP MENU will be displayed.

Press the FUNC3 (>>) twice.

Press to select "KEY BUZZER", and press the ENTER key.

Press to select a set value, and press the ENTER key.

• Set value : ON/ OFF

Press the END/POWER key several times to end the setting.



 When the key buzzer is set to "OFF", the buzzer sound for errors, warnings, operation completion, etc. cannot be shut off.

Setting the CONFIRM. FEED

Set whether media feeding is performed for checking the result of the test printing etc. or not.

Press the (FUNC1) (MENU) → (twice)
→ ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

Press the (FUNC3) (>>) twice.

Press to select "CONFIRM. FEED", and press the ENTER key.

Press to select a set value, and press the ENTER key.

• Set value : ON/ OFF

Press the (END/POWER) key several times to end the setting.

Setting the SPACE FEED MODE

Change the feed mode of the margin included in the image data (the space of no data to be printed). If print data with much margin, set to "CONTINUOUS", then the print time can be shorten.

Press the Func1 (MENU) Twice)

ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

Press the (FUNC3) (>>) twice.

Press to select "SPACE FEED MODE", and press the ENTER key.

Press to select a set value, and press the ENTER key.

INTERMITTENT: Perform intermittent feed operation of the path division

unit

CONTINUOUS : Feed the no data part at a time

Press the **END/POWER** key several times to end the setting.

Set the network

You can also perform network setting with "Network Configurator", the tool to perform network setting of Mimaki's product. To download the Network Configurator, check " Driver / Utility" on the download page at Mimaki Engineering (https://mimaki.com/download/).



Press the Func1 (MENU) → (twice)

→ ENTER key in LOCAL.

· MACHINE SETUP MENU will be displayed.



Press the (FUNC3) (>>) twice.



Press v to select "NETWORK", and press the ENTER key.



Press to select "CHECK IP ADDRESS", and press the ENTER key.

- The IP address currently used by this machine is displayed.
- When you have finished the check, press the [ENTER] key.



 After connecting with the network, it takes time until the IP address is determined. If the IP address has not been determined, "0.0.0.0" is displayed.



Press to select "CHECK MAC ADDRESS", and press the ENTER key.

- The MAC address currently used by this machine is displayed.
- When you have finished the check, press the [ENTER] key.
- 6

Press to select "DHCP", and press the ENTER key.



Press to select a set value, and press the ENTER key.

- Set value : ON/ OFF
- When it is ON, the IP address given by the DHCP server is used.
- 8

Press to select "AutoIP", and press the ENTER key.

9

Press to select a set value, and press the key.

- Set value : ON/ OFF
- When it is ON, the IP address is determined by the AutoIP protocol. However, DHCP is ON, DHCP has priority.

[10]

Press (A) v to select "IP ADDRESS", and press the (ENTER key.

11

Press to select a set value, and press the key.

- · Set value : ON/ OFF
- Both of DHCP and AutoIP is OFF, you can set IP Address. For other than above, proceed to the Step 14.

12

Press the (FUNC3) key .

- The setting items DEFAULT GATEWAY, DNS ADDRESS and SUBNET MASK will be displayed.
- Both of DHCP and AutoIP is OFF, you can set DEFAULT GATEWAY/ DNS ADDRESS/ SUBNET MASK. For other than above, proceed to the Step 14.
- Press the verified several times to select setting item, and press the ENTER key.
- Press to select a set value, and press the ENTER key.
- Press the END/POWER key several times to end the setting.



 To reflect network setting, once turn off the power supply and turn it on again.

Setting event mail function

Set the function to send e-mails to the set e-mail address when events such as cutting start/ end and stop due to an error

You can also perform network setting with "Network Configurator", the tool to perform network setting of Mimaki's product. To download the Network Configurator, check " Driver / Utility" on the download page at Mimaki Engineering (https://mimaki.com/download/).

- Disclaimer
- The customer is responsible for the communication fee for Internet communication such as e-mail notification.
- The notification by the event mail function may not be delivered due to Internet environment, failure of the device/ the power supply, etc. Mimaki has absolutely no responsibility for any damages or loss resulting from nondelivery or delays.



- You can use event mail function by connecting LAN to this machine. Please prepare for LAN cable connection beforehand.
- · Not compatible with SSL communication.

Enable the event mail function

Press the (FUNC1) (MENU) → (twice)
→ ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

Press the (FUNC1) (<<) .

Press to select "EVENT MAIL", and press the ENTER key.

Press to select "MAIL DELIVERY", and press the ENTER key.

- Press to select "ON", and press the ENTER key.
- Press the <u>END/POWER</u> key several times to end the setting.

Set the event to send an event mail

- Press the (FUNC1) (MENU) → (twice)
 → ENTER key in LOCAL.
 - MACHINE SETUP MENU will be displayed.
- Press the Func1 (<<) .
- Press to select "EVENT MAIL", and press the ENTER key.
- Press to select "SELECT EVENT", and press the ENTER key.
- Press v to select the event, and press the (FUNC2) (v).
 - After selecting the event, press the [FUNC2] key and put a check in the check box.
 An email will be sent when the event whose box
 - An email will be sent when the event whose box has been checked occurs.
 - To select multiple events, use [▲][▼] to put the cursor over the events you want, and put a check in their boxes by pressing [FUNC2].

Event name	Outline
PRINT START	Sets sending/not sending of an email when printing starts.
PRINT END	Sets sending/not sending of an email when printing ends.
ERROR	Sets sending/not sending of an email when printing is stopped due to occurrence of an error.
WARNING	Sets sending/not sending of an email when a warning occurs during printing.
etc.	Sets sending/not sending of an email when an event other than the above occurs.

Press the END/POWER key several times to end the setting.

Set the e-mail address

- Press the (FUNC1) (MENU) → (twice)
 → ENTER key in LOCAL.
 - · MACHINE SETUP MENU will be displayed.
- Press the Func1 (<<) .
- Press to select "EVENT MAIL", and press the ENTER key.
- Press to select "MAIL ADDRESS", and press the ENTER key.
- Press to set mail address, and press the ENTER key.
 - Set the e-mail address to which you send the event mail
 - Set it with alphanumeric characters and symbols within 96 characters.
- Press the <u>END/POWER</u> key several times to end the setting.

Set the subject

- Press the (FUNC1) (MENU) → (twice)
 → ENTER key in LOCAL.
 - · MACHINE SETUP MENU will be displayed.
- Press the FUNC1 (<<).
- Press to select "EVENT MAIL", and press the ENTER key.
- Press to select "MASSAGE SUBJECT", and press the ENTER key.
- Press to set subject, and press the ENTER key.
 - Set the characters to write in the subject of the event mail.
 - Set it with alphanumeric characters and symbols within 8 characters.
- Press the <u>END/POWER</u> key several times to end the setting.

Set the server

Press the (FUNC1) (MENU) → (twice)
→ ENTER key in LOCAL.

• MACHINE SETUP MENU will be displayed.

Press the Func1 (<<) .

Press to select "EVENT MAIL", and press the ENTER key.

Press to select "SERVER SETUP", and press the ENTER key.

Press to select "SMTP ADDRESS", and press the ENTER key.

Press to set SMTP Address, and press the ENTER key.

Press the jog key [▲][▼][◀][▶] to set SMTP address.

· Input the SMTP address name.

Press to select "SMTP PORT No.", and press the ENTER key.

Press v to set SMTP Port No., and press the ENTER key.

· Set the SMTP port number.

Press v to select "SENDER ADDRESS", and press the ENTER key.

Press to set SENDER ADDRESS, and press the ENTER key.

- Press [▲][▼][◀][▶] and set the e-mail address to be used as the sender mail address.
- Set it with alphanumeric characters and symbols within 64 characters.

誉

 Depending on your server, if you do not set the e-mail address not supporting the account, sending/ receiving e-mails may be unavailable.

Press to select
"AUTHENTICATION", and press the
ENTER key.

Press to set authentication method, and press the ENTER key.

- Set the authentication method of the SMTP server.
- When you select [OFF], proceed to the Step 20.

Press to select "USER NAME", and press the ENTER key.

Press to set User Name, and press the ENTER key.

- Press [▲][▼][▼][▶] to set the user name to use for the authentication.
- Set it with alphanumeric characters and symbols within 30 characters.

Press to select "PASSWORD", and press the ENTER key.

Press to set Pass Word, and press the ENTER key.

- Press [▲][▼][▼][▼] to set the password to use for the authentication.
- Set it with alphanumeric characters and symbols within 15 characters.



 On the password setting screen, you can only check the value that you are currently inputting.

• When you select [POP before SMTP] in the Step 11, set the items in the Step 16 to 19.

Press to select "POP3 ADDRESS", and press the ENTER key.

Press to set POP3 Address, and press the ENTER key.

- Press [▲][▼][◀][▶] to set POP server.
- Input the POP server name.

Press to select "APOP", and press the ENTER key.

Press to set ON/ OFF, and press the ENTER key.

Press the (END/POWER) key several times to end the setting.

Send a test e-mail



Press the Func1 (MENU) → (twice)

→ ENTER key in LOCAL.

· MACHINE SETUP MENU will be displayed.



Press the (FUNC1) (<<) .



Press to select "EVENT MAIL", and press the ENTER key.



Press the Func3 (>>) → ENTER key.

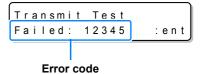
• "TRANSMIT TEST" will be selected.



Press the ENTER key.

- The sent result is displayed.
- If sending test e-mail has failed, an error code is displayed.

Refer to the next page to solve the problem.





Press the **END/POWER** key several times to end the setting.



- The sent result of the test e-mail is the result of e-mail sending process performed by this machine to the e-mail server. It does not indicate that the e-mail was received at the address.
- If the spam e-mail filter etc. has been set in the terminal in which e-mails are received, even if "Sending has been completed" is displayed, the e-mail cannot be received in some cases.
- If sending test e-mail has failed, the error code below is displayed.
- · If the error cannot be solved, try again after a while.
- For the server setting etc., contact with the network administrator or the provider.

Error Code	The expected casus	Remedy
10	Network connection error	 Check that the machine is connected with the network. Check that the machine IP address is correct. Check that the machine is in the environment where DNS is available.
20	No valid e-mail address.	Enter the correct e-mail address.
11003 11004	The POP server cannot be found. Or cannot access DNS server.	 Check the POP server address. Check that the machine is in the environment where DNS is available.
11021	Cannot connect with the POP server.	Check the POP server setting.Check the firewall setting.
12010	An error returns from the POP server.	Check the POP server setting.
13000	The POP authentication has failed.	 Check the user name and the password. Check the APOP setting. Confirm the authentication method.
10013 10014	The SMTP server cannot be found. Or cannot access DNS server.	 Check the SMTP server address. Check that the machine is in the environment where DNS is available.
10021	Cannot connect with the SMTP server.	Check the SMTP server setting.Check the SMTP port number.Check the firewall setting.
10*** 11*** 20*** 21***	An error returns from the SMTP server. Or, there was no response.	Check the SMTP server setting. Cannot communicate with a server that requires mandatory SSL communication. Check protocol filter settings.
12***	It is invalid sender address.	Check that the e-mail address supporting the account entered in the user name/ the password is set in SENDER ADDRESS.
13***	The e-mail address cannot be found. Or, it is invalid sender address.	 Check the e-mail address. Even if there is a mistake in the e-mail address, this error cannot be detected in some cases. Check that the e-mail address supporting the account entered in the user name/ the password is set in SENDER ADDRESS.
22000 22008	SMTP authentication error	Confirm the authentication method.
23*** 24*** 25***	The SMTP authentication has failed.	Check the user name and the password.

[&]quot;***" is the error code returned from the e-mail server.

Initializing the Settings

You can return the setting of "SETUP", "MAINTENANCE" and "MACHINE SETUP" to the status before shipment.



• MACHINE SETUP MENU will be displayed.

Press the Funct (<<).

Press to select "RESET", and press the ENTER key.

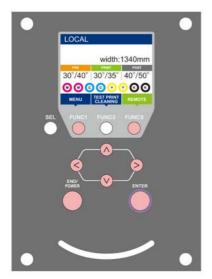
Press the ENTER key.

• The already configured settings are initialized.

Press the (END/POWER) key several times to end the setting.

About NOZZLE CHECK MENU

Set operations concerning the nozzle missing detection function.



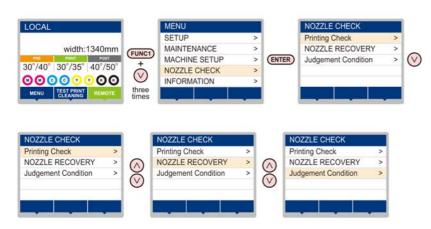
FUNC1: Press this to select INFORMATION MENU, or to switch to the previous screen.

: Press this to switch to the next screen.

: Use these to select a setting item.

ENTER: Press this to confirm a setting, etc..

♦ NCU MENUs at-a-glance



INFORMATION MENU table

	Function name		Set value	Default	Meaning
Printing Check (P.3-25)		ON/OFF	OFF	Set this when you want to conduct nozzle check at the beginning of online printing.	
(ON)	Check	LENGTH	0.1 to 50.0m	30.0 m	Conducts nozzle check at each set length.
	Interval	FILE	1 to 100	30 file	Conducts nozzle check at each set number of files. *1
	Action	CLEANING	OFF/ SOFT/ NORMAL/ HARD	SOFT	Sets the type of cleaning performed during recovery work.
	Action	RETRY COUNT	0 to 3	1	Repeats the retry operation for the set number of times.
NOZZI	LE RECOVI P.3-25)	ERY	ON/OFF	OFF	Set this when you want to conduct automatic nozzle recovery.
Judgement Condition ((P.3-25)		1 to 180	1	Sets how many missing nozzles are detected for "Nozzle Missing" judgment to be made according to each color. (Maximum 16 per 1 nozzle line)*2	

- *1. When the set length is reached during printing, nozzle check is conducted at the start of the next printing.
- *2. Depending on the print conditions, nozzle recovery is not applied in some cases.

Printing Check Flow

Nozzle check is conducted according to the following flow at the start of printing.



- · Turn the "Printing Check" setting ON to be enabled.
- · Only perform RETRY COUNT and Printing Check settings when the settings are enabled.

1

nozzle check → Judgment

Detects missing nozzles.

Recovery operation → nozzle check → Judgment

If more missing nozzles than "Judgement Condition" are detected after the nozzle check, cleaning is performed and nozzle check is conducted again.

Retry → Judgment

If more missing nozzles than "Judgement Condition" are detected after the recovery operation, the recovery operation is conducted again.

 If the "RETRY COUNT" setting is configured to 1 or more, this becomes effective.

Printing Check → Judgment

Nozzle recovery is automatically conducted following nozzle check and recovery operation.

• Turn the "Printing Check" setting ON to be enabled.

Nozzle Missing judgment

If more missing nozzles than A are eventually detected, continued printing will be deemed impossible and printing will stop.

Printing Operations at "Nozzle Missing" Judgment and Error Occurrence

- When judged to be "Nozzle Missing"
- → Printing is stopped.
- When error occurs during nozzle check
- → Printing is stopped and "Printing Check" is automatically turned OFF. After recovering from the error, set "Printing Check" once again.

Setting the Printing Check

Select ON when you want to conduct nozzle check at the start of online printing.

- Press the (FUNC1) (MENU) (3 times)

 ENTER key in LOCAL.
 - NOZZLE CHECK MENU will be displayed.
- Press to select "Printing Check", and press the ENTER key.
- Press to select ON, and press the ENTER key.
 - The "Check Interval" setting screen will be displayed.
 - "Select OFF to not set nozzle check. Proceed to Step 11.
- Press the ENTER key.
- Press to select setting item, and press the ENTER key.
 - select the nozzle check interval from "LENGTH" or "FILE".

LENGTH: nozzle check is conducted when the printed length reaches the set length.

FILE: nozzle check is conducted when the number of printed files reaches the set number.

- Press to select setting value, and press the ENTER key.
 - The set value will differ according to the setting selected in Step 5.

LENGTH: 0.1 to 100 m **FILE**: 0 to 300 files

- Press the ENTER key twice.
 - The "Action" setting screen will be displayed.
- Press the ENTER key.

 "CLEANING TYPE" will be selected.
- Press to select cleaning type, and press the ENTER key.

Setting value: OFF/SOFT/ NORMAL/ HARD

Press to select retry count, and press the ENTER key.

Setting value: 0 to 3

Press the **END/POWER** key several times to end the setting.

Setting the NOZZLE RECOVERY

set this if you want to conduct automatic nozzle recovery when nozzle missing is detected.

- Press the (FUNC1) (MENU) (3 times)

 ENTER key in LOCAL.
 - NOZZLE CHECK MENU will be displayed.
- Press v to select "NOZZLE RECOVERY", and press the ENTER key.
- Press to select ON/OFF, and press the ENTER key.
- Press the END/POWER key several times to end the setting.

Setting the Judgement Condition

Set the conditions for judging nozzle missing.

- Press the (FUNC1) (MENU) (3 times)

 ENTER key in LOCAL.
 - NOZZLE CHECK MENU will be displayed.
- Press to select "Judgement Condition", and press the ENTER key.
- Press to select color, and press the ENTER key.

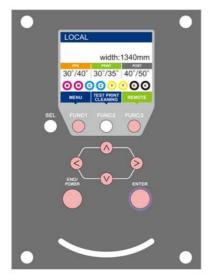


- The type of color changes depending on the ink set
- Press to set the number of nozzles for judgment, and press the ENTER key.
- Press the **END/POWER** key several times to end the setting.

About INFORMATION MENU

The information of this machine can be confirmed.

The following items can be confirmed as machine information.



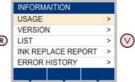
FUNC1: Press this to select INFORMATION MENU, or to switch to the previous screen.

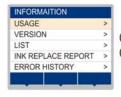
: Press this to switch to the next screen.

: Use these to select a setting item.

ENTER: Press this to confirm a setting, etc..















INFORMATION MENU table

Item		Description
	WIPING	This displays how many wipings have been done.
	WASTE TANK	This displays how much waste ink has built up in the waste ink tank, as a rough percentage of the tank capacity.
USAGE	PRINT LENGTH	This displays the total length of the printing done to date.
USAGE	PRINT AREA	This displays the total area of the printing done to date.
	USE TIME	This displays the total time for which the machine has been used to date.
	Spout Rubber	This displays the total time for which Spout Rubber has been used. (Only displayed when MBIS is used)
VERSION		This displays the version information of this machine.
LIST		This allows you to print the settings of this machine.
Ink REPL. Report		This prints ink history of this machine.
ERROR HISTORY		This displays the history of errors and warnings to date. When you press [▲][▼], the date of occurrence (year/month/day/hour/minute) and the error/warning information are displayed alternately in the order of occurrence.

Displaying the Information



Press the FUNC1 (MENU) → ▼ (4 times) → ENTER key in LOCAL.

• INFORMATION MENU will be displayed.

2

Press to select a information.

• Refer to the "INFORMATION MENU", and select the information to be displayed.

3

Press the ENTER key.

• If you selected [LIST] in step 2, the machine's settings will be printed.



Press the **END/POWER** key several times to end the setting.



- When you reset the used count of the wiper, press the [FUNC2] key while [RESET?] is displayed. When you press the [ENTER] key, the number of wipings is reset.
- By pressing the function key during display of "WIPING information," "WASTE TANK information" and "Spout Rubber" in USAGE, the used counts can be reset.

When resetting WIPING information: Press the [FUNC2]
When resetting WASTE TANK information: Press the [FUNC1]
When resetting Spout Rubber: Press the [FUNC3]

Chapter 4 Cutting Funcion



This chapter

describes about cutting function.

Cut Out Data with Registration Mark4-2
The Flow of Cutting out the Registered
Data 4-2
Enter the registration mark detection mode 4-2
Precautions in inputting data with registration
marks 4-2
Setting of Detecting the Registration Marks 4-6
About CUTTING MENU4-8
Cutting MENU table4-9
Setting the CUT MODE4-10
Perform multiple Cuttings (Copy function)4-10
SETUP SUB MENU4-1
Setting the DIVISION CUT4-1
Make the media without uncut area
(OVER CUT function) 4-13
Other SETUP SUB MENU4-13
SETUP RESET 4-14

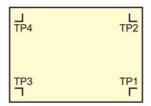
Naintenance Function	4-15
Maintenance of Mark Sensor	4-15
Perform SAMPLE CUT to Find out the	
Cause of Cutting Error	4-17
Cutting a Medium into Multiple Pieces	
with a Certain Length	4-17
Cutting out Data without Register Marks	
(PC ORIGIN OFFSET)	4-18
Setting the Scale Adjust	4-19

Cut Out Data with Registration Mark

Create registration marks on an output image that you want to make a seal, and the machine detects them to cut it out.

There are following two types of registration marks.

Registration mark: Type 1



Registration mark: Type 2





 Use the TP4 when performing trapezium compensation to correct the uneven sheet feeding rate caused by the difference in the diameter between the right and left grit rollers. If the trapezium compensation is to be omitted, there is no need to set the TP4. In that case, however, cutting distortion will increase.

The Flow of Cutting out the Registered Data

Add registration marks on the image that you want to make a seal and others, and print it on a sheet.

There are some conditions for creating the registration marks. See pages P.4-2 through P.4-5.

Set the printed sheet in CJV300 BS INK MODEL series.

Set it referring to P.2-4.

Send the cut-target image from the computer for cutting.

In case it is not successfully cut,

- Confirm the reaction of registration mark sensor
- Confirm the position of the Light Pointer.

Enter the registration mark detection mode



Press the FUNC2 (TEST CUT) in LOCAL.



Press to select the "MARK DETECTION", and press the ENTER key.

• It turns out to be a registration mark detection mode.



- When the registration detection is set to OFF, it doesn't enter into the registration mode. (P.4-6)
- While various functions are under setting, data entry may be cancelled and the machine may go back to the previous setting item.

Precautions in inputting data with registration marks

There are some limitations on preparing data with registration marks.

In order to make full use of this function, read the following instructions carefully and prepare data with registration marks properly.

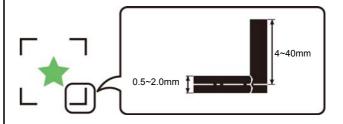


 The registration mark described here is intended to detect the sheet inclination and the lengths along the X and Y axes. It is not a mark for trimming.

Size of the registration marks

The registration mark length shall be about more than ten times the line width.

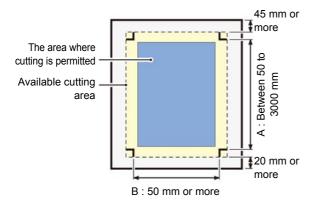
In addition, for the length of a side of the registration mark against the data, refer to "The size of, and the distance between, registration marks" (P.4-4).



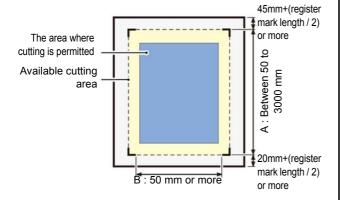
The area where registration marks and designs can be arranged

- The TP1 starting position must be 20 mm or more away from the leading edge of the sheet.
- The TP2 end position must be 45 mm or more away from the tail end of the sheet.

Mark Form: Type 1



Mark Form: Type 2

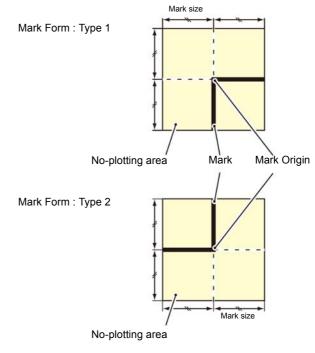


No-plotting area around the registration marks

An area around a registration mark (from the mark origin to the mark size area) is a non-plotting area. There must be no data plotted or stain in this area; otherwise, a wrong origin may be detected or a mark read error can occur.

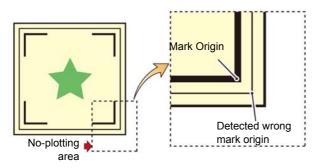


 If a wrong mark origin is detected, the cutting will be performed in a wrong area.



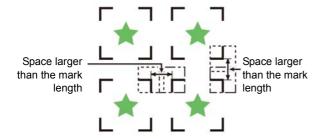
Example of cause of wrong detection 1

There is a line outside the registration marks



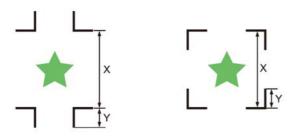
Example of cause of wrong detection 2

The distance between registration marks (TP2 and TP1 or TP4 and TP2) is smaller than the mark length (for Type 2)



The size of, and the distance between, registration marks

The size (Y) of a registration mark suited for the distance (X) between the marks is as shown below. If the mark size (Y) is too small relative to the distance (X), the marks may not be detected correctly. Be sure to prepare the registration marks with an appropriate size.

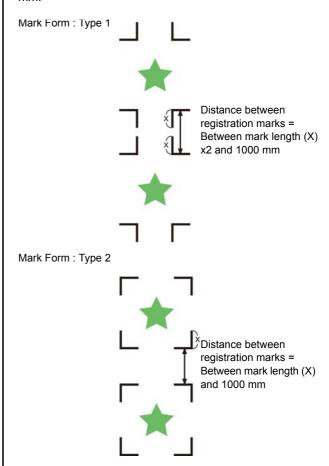


Х	200 max.	500 max.	1000 max.	2000 max.	2001 min
В	5 to 40	8 to 40	15 to 40	25 to 40	35 to 40

(mm)

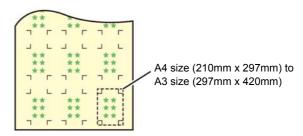
Distance between registration marks for copied designs

For Type 1 registration marks, the distance between the marks must be not shorter than two times the mark length and not longer than 1000 mm. For Type 2 registration marks, the distance between the marks must be not shorter than the mark length and not longer than 1000 mm



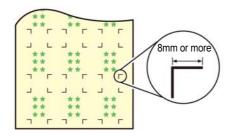
Recommended size of the area defined with a set of four registration marks

It is recommended that the size of the area defined with a set of four registration marks is in the range of A4 size (210 mm x 297 mm) to A3 size (297 mm x 420 mm). If you follow this recommendation, you can minimize wasteful spaces and arrange the designs efficiently.



In case of perform printing a registration mark continuously

When perform printing a registration mark continuously, set the one side of the registration marksize to 8mm. In case 8mm or shorter registration mark recognized continuously, may cause the glitches on the main unit.



Color of mark

The mark must be printed in black against the white background.

The registration mark will not be detected correctly if the background is not white or the mark is not black.





Mark blurred

If the mark is blurred, a wrong mark origin can be detected, thus resulting in deviated cutting.



Notes for the combined operation of print & cut

When performing combined operation of print & cut with RasterLink 6 or later, be careful to the following items:

- (1) When performing combined operation of print & cut with the attached application software to this machine (RasaterLink 6 Ver.3.0 or later / FineCut 8.4.1 or later), the following set contents will follow the instruction of software side. Note that the contents set in this machine will be invalid.
 - · Register mark size
 - · Register mark shape
- (2) The combined operation of print & cut without a register mark is not performed under the following conditions:
 - Print & cut using the take-up device



Other than the above conditions, there is a
possibility of the cutting line being misaligned
depending on the printing data size. Therefore, it
is also recommended to perform the operation
with the data which has register marks for
combined operation of print & cut.

Setting of Detecting the Registration Marks

When you want to cut the data with registration marks, you must set the following without fail.



Press the (FUNC1) (MENU) → (FUNC3) (>>)
→ (ENTER) key in LOCAL.

· Cuttibg MENU will be displayed.



Press to select the "MARK DETECT", and press the ENTER key.



Press v to select the setting item, and press the ENTER key.

• Refer to "The setting items of detecting the registration marks" (PP.4-6).



Press v to select the setting value, and press the ENTER key.

• Set value : Standard, high speed, High quality



Press the $\begin{tabular}{ll} END/POWER \end{tabular}$ key several times to end the setting.



- You can set the register mark detection without pressing [FUNC1] (MENU) from LOCAL.
- (1) Press the [SEL] key in LOCAL to display "TEST CUT".
- (2) Press [FUNC2] (TEST CUT)
- (3) Press the [ENTER] key
 - After this, go to step 3 of "Setting of Detecting the Registration Marks".

The setting items of detecting the registration marks

There are the following seven setting items for registration mark detection.

(1) MARK DETECT

Setting	Description
ON/OFF	The registration marks can be detected if this is set to ON.

(2) MARK TYPE

Select either one of the following types of registration marks.



 Use the copy function of cutting software, in the case of continuous cut, select the register mark of Zero margin, and you will be able to place no margin between the register marks.
 By eliminating the margin between the register marks to cut efficiently, recommend to use register mark shaped "Zero Margin".

Setting	Description
Type 1	TP3 TP1
Type 2	TP4 TP2 TP3 TP1
Zero margin	TP3 TP1

(3) MARK SIZE

Set the length of one side of the registration mark.

Length of one side

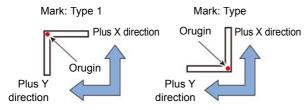


Setting	Description
5 to 40mm	When the printed mark's horizontal and vertical lengths differ from each other, set the same value as the shorter length.

(4) OFFSET Y / OFFSET X

Generally the origin will be set at the position shown below.

However, depending on your application and the work to be cut, the cutting position may be misaligned to the same direction. In this case, the location of the origin can be corrected.



Setting	Description
1 + 15 UUMM	Use this to shift the origin position in the X direction or Y direction.



 If the origin is located out of the available cutting area, "ERR37 MARK ORG" will be displayed. In this case, write the registration marks in the area closer to the center of the media.

(5) DETECT END KEY START

Setting	Description	
I ()N/()FF	If this is ON, you will be able to detect crop mark in [END] key.	



 If this is set to ON, the registration mark detection operation may be started by turning the power OFF.

(6) SENSOR LEVEL

Setting	Description
	The bigger the numerical value is, the higher
	the sensitivity of the registration mark sensor
1 to 7	becomes.
	If it detects the registration mark by mistake,
	lower the sensitivity. Generally, use it with the
	setting value of "4".

(7) MARK FILL UP

Setting	Description
ON/OFF	Specify the setting as "ON" when using the "Fill around the register mark" function of FineCut to detect the printed registration mark. Create using a registration mark size of 10 mm or more when filling in around the registration mark.

About CUTTING MENU



FUNC1 : Press this to select SETUP MENU, or to switch to the previous screen.

FUNC3 : Press this to switch to the next screen.

(No): Use these to select a setting item.

ENTER : Press this to confirm a setting, etc..

◆ Cutting MENUs at-a-glance



Cutting MENU table



- For each setting item below, you can set it so that the machine may operate according to the value specified when you printed from your RIP software in the connected host PC.
- Set Item: DRYING TIME/ MARGIN (LEFT and RIGHT)/ VACUUM FAN/ FEED SPEED
- When you operate the machine according to the contents specified with the RIP software, set each
- item to "Host" when registering this machine type. When you set it other than "Host", the machine operates according to the machine setting.
- For the specifying method with the RIP software, refer to the operation manual of the RIP software.

Function name		Outline
MARK DETECT		
	FORM	
	SIZE	
TP DETECT ((P.4-6)	OFFSET X	When you cut the data with registration marks, you must set
II DETECT ((28 1.4-0)	OFFSET Y	without fail.
	DETECT END KEY START	
	SENSOR LEVEL	
	MARK FILL UP	
CUT MODE ((PP.4-10)		This is to set the cutting quality.
COPY (@P.4-10)		This function performs cutting for the received data on two or more sheets.
Tool Change (P.2-22, P.2-2	2)	You select this function when you replace the tool.
	DIVISION CUT ((P.4-11)	You can cut the data bigger than the sheet width by dividing it. With division cut, you can make settings for the width direction (Y) and feed direction (X).
	UP SPEED ((P.4-13)	This is to set the speed of sheet and carriage movement when the tool is up. Setting the speed lower makes the sheet misalignment reduced at the time of long sheet feeding.
	DUMMY CUT ((P.4-13)	The blade edge is made to turn to a specific direction before starting cutting, which allows dummy cutting.
SETUP SUB MENU	SHEET TYPE (P.4-13)	This is to set the types of sheet according to the sheet you use.
SETOT SOB MENO	ADJ PRS OFFSET ((2 P.4-13)	This is used to expand the value in such a case as when the beginning and end part of the cut are left cut.
	OVER CUT ((P.4-13)	By over lapping the start point and the end point arbitrarily, you can make the media without uncut area.
	CURVE MODE((P.4-14)	Set the cutting speed of the curve part. When the curve part is distorted with cutting a relatively large circular arc, setting to "SLOW" may improve the situation.
	Vacuum fan	Set the strength of the vacuum fan at cutting. Please use "weak" normally.
MAINTENANCE	MARK SENSOR ((P.4-15)	This is for adjusting the registration mark sensor.
	SAMPLE CUT ((P.4-17)	In case that normal data cutting cannot be performed etc., perform cutting with the sample stored in this machine to find out the cause of cutting error.
	AUTO CUT ((P.4-17)	Cutting a medium into multiple pieces with a certain length.
ORIGIN OFFSET ((P.4-18)		To print & cut the data without register marks, adjust the misalignment between a printed image and the cutting line.

Setting the CUT MODE

This is to set the cutting quality.

There are the following three type for cut mode.

Setting	Description
Standard	This is a regular cutting mode.
High speed	This is used to perform cutting in a short time (it is not appropriate for the heavy media).
High quality	This is a cutting mode used to give priority to cutting quality.



- · Select "QUALITY" in any of the following cases:
- Characters whose sizes are 10 mm or less are to be cut
- Picture patterns or characters that have many sharp corners are to be cut
- Minute cutting is to be performed However, the edges of finished patterns may be rugged if the data sent from the host computer is too complicated. In such a case, select "HIGHspd" for smooth finish.



With "QUALITY", the cutting speed is limited to 20 cm/s.



Press the Func1 (MENU) → Func3 (>>)
→ ENTER key in LOCAL.

· Cuttibg MENU will be displayed.



Press to select the "CUT MODE", and press the ENTER key.



Press to select the setting value, and press the ENTER key.

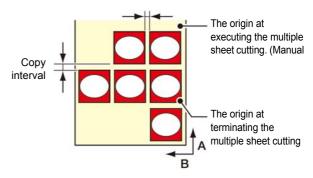
• Set value : Standard, high speed, High quality



Press the END/POWER key several times to end the setting.

Perform multiple Cuttings (Copy function)

This function performs cutting for the received data on two or more sheets.(Maximum 999 cuttings)



- You can perform multiple cuttings by specifying data saved in the receiving buffer of this machine.
- The receiving buffer can save only one data.
- When a new data is received, the data that has been saved is overwritten by it.

(You cannot perform multiple cuttings by specifying the data that was received before.)



Press the (FUNC1) (MENU) → (FUNC3) (>>)
→ (ENTER) key in LOCAL.

· Cuttibg MENU will be displayed.



Press to select the "COPY", and press the ENTER key.



Press v to select the number of cutting (1 to 999), and press the ENTER key.



Press v to select the interval of figures to be cut (0 to 30mm), and press the ENTER key.



- If the multiple sheet cutting is executed immediately after cutting in the remote mode, cutting (plotting) will be overlapped. To avoid this trouble, be sure to set the new origin.
- While the machine is executing the multiple sheet cutting, it ignores data sent from the computer.
- To send two or more pieces of data from the computer to the machine, the data has to be sent while providing an interval of 5 seconds or more between any two pieces of data. If two pieces of data are sent from the computer to the machine within 5 seconds, the two pieces of data will be subjected to the multiple sheet cutting. The machine performs cutting for divided cutting data by the specified number of sheets without dividing the data. If any error is displayed, refer to "Error messages" (P-6-8).
- If there is the origin renewal command in cutting data, you cannot perform copy function.
- When you use FineCut, the default value of Origin Renewal is "ON". If you perform [No. COPIES], uncheck the checkbox. (Refer to FineCut OPERATION MANUAL Chapter5 "Setting Head Position after Plotting")

SETUP SUB MENU

The SETUP SUB MENU offer convenient functions that you can use in cutting.

The following items are available in the sub menus.

Function name	Outline
DIVISION CUT ((2) P.4-11)	You can cut the data bigger than the sheet width by dividing it. With division cut, you can make settings for the width direction (Y) and feed direction (X).
UP SPEED ((EF P.4-13)	This is to set the speed of sheet and carriage movement when the tool is up. Setting the speed lower makes the sheet misalignment reduced at the time of long sheet feeding.
DUMMY CUT (P.4-13)	You can the blade edge is made to turn to a specific direction before starting cutting, which allows dummy cutting.
SHEET TYPE ((2) P.4-13)	Set this according to the weight of the media you have set. When this is set to "HEAVY", the maximum cutting speed is set low.
ADJ PRS OFFSET ((2) P.4-13)	This is used to expand the value in such a case as when the beginning and end part of the cut are left cut.
OVER CUT ((2) P.4-13)	By over lapping the start point and the end point arbitrarily, you can make the media without uncut area.
CURVE MODE (CP P.4-14)	Set the cutting speed of the curve part. When the curve part is distorted with cutting a relatively large circular arc, setting to "SLOW" may improve the situation.
SETUP RESET ((P.4-14)	Reset the setting values to the initial state.
Vacuum fan	Set the strength of the vacuum fan at cutting. Please use "weak" normally.

Setting the DIVISION CUT

When you set DIVISION CUT for the width direction (y), you can cut the data bigger than the media width by dividing it.

In addition, when you set DIVISION CUT for the feeding direction (X), you can cut the long data by dividing it and you can prevent cutting misalignment due to media meandering.

(Important!)

With the DVISION CUT function, you can use the following convenient functions too.

- Perform a frame cut:
 Together with the cut data, the machine automatically cuts out the frame fitted to the size of the cut data.
- Put a mark for leaving a margin for gluing: You can put a "mark" for showing the point for gluing together the DIVISION CUT medias.

Set the Y direction (width direction) DIVISION CUT

- Press the (FUNC1) (MENU) → (FUNC3) (>>)
 → ENTER key in LOCAL.
 - Cuttibg MENU will be displayed.
- Press Func3 (>>).
- Press v to select the "SETUP SUB MENU", and press the ENTER key.
- Press to select the "DIVISION CUT", and press the ENTER key.
- Press to select "Y", and press the ENTER key.
 - If you select "OFF", setting for division cutting will not be carried out. Proceed to step 9.
- Press to select "FRAME CUT", and press the ENTER key.
- Press to select a set value, and press the ENTER key.
 - · Set value : ON, OFF
 - Select "ON" for the frame cut.
- Press to select "MARK CUT", and press the ENTER key.
- Press v to select a set value, and press the ENTER key.
 - Set value : ON, OFF
 - Select "ON" for the mark cut.
- Press the (END/POWER) key several times to end the setting.

Set the X direction (feeding direction) **DIVISION CUT**

If the data size of the feeding direction exceeds the division length and cross cut length, the machine cuts it at that position by dividing it.

If the cross cut length is set, the machine cuts by overlapping it by the set value.



Press the (FUNC1) (MENU) → (FUNC3) (>>) ◆ ENTER) key in LOCAL.

· Cuttibg MENU will be displayed.

Press (FUNC3) (>>).

Press (*) to select the "SETUP SUB MENU", and press the (ENTER) key.

Press (**) to select the "DIVISION CUT", and press the ENTER key.

Press to select "X", and press the ENTER key.

• If you select "OFF", setting for division cutting will not be carried out. Proceed to step 10.

6

Press to select "DIV. LENG", and press the ENTER key.

Press (to select a set value, and press the (ENTER) key.

- · Set value: 50cm to 500 cm (in increments of 50cm)
- When it exceeds the set value, the machine cuts it at that position by dividing it.

8

Press (**) to select the "CROSS CUT", and press the (ENTER) key.

Press to select a set value, and press the ENTER key.

- Set value : 0mm to 50mm (in increments of 1mm)
- The machine cuts by overlapping it by the set

Press the **END/POWER** key several times to end the setting.



- The setting values are kept in memory even when the power is turned off.
- During execution of division cutting, the machine ignores any other data sent from the host computer.
- In any of the following cases, the machine cannot perform division cutting.

The data size is larger than the receiver buffer capacity.

An origin change command is contained in the cutting data.

A two-point compensation value has been set. The registration mark detection is being performed.

The machine cuts the test data stored in it.

Reset the setting for DIVISION CUT

Press the (FUNC1) (MENU) → (FUNC3) (>>) **▶** ENTER key in LOCAL.

• Cuttibg MENU will be displayed.

Press (FUNC3) (>>) .

Press to select the "SETUP SUB MENU", and press the ENTER key.

4

Press (**) to select the "DIVISION CUT", and press the (ENTER) key.

Press () to select "Setting", and press the ENTER key.

6

Press to select "OFF", and press the ENTER key.

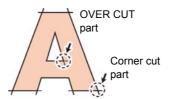
Press the **END/POWER** key several times to end the setting.

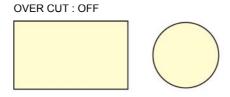
Make the media without uncut area (OVER CUT function)

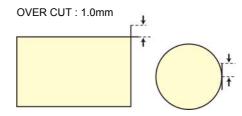
By over lapping the start point and the end point arbitrarily, you can make the media without uncut area. Specify the OVER CUT function (valid/invalid) and the length of the OVER CUT. If the length of the OVER CUT is set, when cut starts, cut will be performed from the position to the front by the specified length and the tool will move up going too far at the end. Additionally, you can enable the corner cut function to perform overcutting of corners other than the start and end points.



 Setting proper OVER CUT can reduce uncut area of start and end point of a media easy to bend. If too large value is set, the result may have a rupture.







- 1
- Press the (FUNC1) (MENU) → (FUNC3) (>>)
 → (ENTER) key in LOCAL.
- · Cuttibg MENU will be displayed.
- 2

Press Func3 (>>).

- 3
- Press to select the "SETUP SUB MENU", and press the ENTER key.
- 4

Press to select the "OVER CUT", and press the ENTER key.

- Press to select the set value, and press the ENTER key.
 - Set value : OFF/ 0.1 to 1.0m (in 0.1mm increment)
 - When you press the [ENTER] key, the setting for "CORNER CUT" setting will be displayed.
- Press to select ON/OFF, and press the ENTER key.
- 7 Press the END/POWER key several times to end the setting.

Other SETUP SUB MENU

How to set other convenient functions is explained below. Change the settings according to the types of use.

- 1
- Press the (FUNC1) (MENU) → (FUNC3) (>>)
 → (ENTER) key in LOCAL.
- · Cuttibg MENU will be displayed.
- 2
- Press (FUNC3) (>>).
- 3
- Press to select the "SETUP SUB MENU", and press the ENTER key.
- 4
- Press v several times, and select an item to set.
- · See "List of Settings" to select one.

- Press the ENTER key.
- Press to select a set value.
 - See "List of Settings" to select one.
- 7
- Press the ENTER key.
- 8
- Press the **END/POWER** key several times to end the setting.



• The set value is retained even when the power is turned "OFF".

List of Settings

The setting is as follows when purchasing:

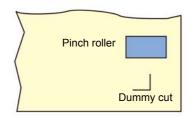
Function Name	Overview	Set Value ^{*1}
Setting the UP SPEED	This is to set the speed of sheet and carriage movement when the tool is up. Setting the speed lower makes the sheet misalignment reduced at the time of long sheet feeding.	5,10,20,30, <u>AUTO</u> (cm/s)
Setting the DUMMY CUT ((PP.4-14)	the operation of dummy cutting is set.	OFF / ON
Setting the SHEET TYPE *2	This is to set the types of sheet according to the sheet you use.	Standard / Heavy
Setting the ADJ-PRS OFFSET (P.4-14)	When there is part of a media left uncut at the starting and ending points, the value is increased.	0 to <u>3</u> to 7
Setting the CURVE MODE (CPP P.4-14)	When the curve part is distorted with cutting a relatively large circular arc with a long line segment, set to "SLOW". Distortion may improve.	FAST / SLOW

- *1. The underlined value is set at the time of purchase.
- $^{\star}2$. If you set "Heavy" for the media setting, the cutting speed will be limited to 20 cm/s.

Setting the DUMMY CUT

This is performed after detecting the media or when changing the tool type in front of the pinch roller which is near the both ends from the position of the cutter unit is placed presently.

Set the dummy cutting function to OFF when you do not want to damage the media in cutting cut-out characters.

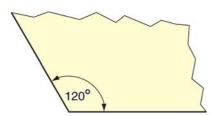




- When "PEN" is selected for the tool condition, the dummy cutting cannot be set.
- · The default of the dummy cutting function is ON.When you have set the dummy cutting function to OFF, perform test cutting (PP.2-26) to adjust the cutter blade orientation before cutting.

Setting the ADJ-PRS OFFSET

Some part of a media is left uncut because the pressure applied when the cutter blade touches the media is weak. When an optional eccentric blade is used, some part of a media to be cut with the blade's angle being 120 degrees or less may be left uncut.



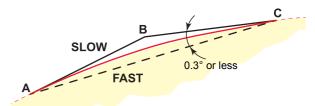
This is because the corners are cut with a low pressure (about 5 g) automatically applied so that the media does not turn up. Some part of a media may be left uncut because the blade edge does not rotate

smoothly in its moving direction with the cutting pressure being low. In such a case, configure the setting for the pressure to be increased when the corners are cut.

Setting the CURVE MODE

When the curve part is distorted with cutting a relatively large circular arc with a long line segment, set to "SLOW". Distortion may improve.

Set value: FAST / SLOW



When the angle of circular arc data is 0.3 degrees or less

FAST: Cut on lines A to C.

SLOW: Cut by the line A to B to C.



· It is set to "FAST" originally. When set to "SLOW", overall the speed will be slowed with general cut data.

SETUP RESET

Reset the setting values to the initial state.

- Press the (FUNC1) (MENU) → (FUNC3) (>>) ◆ ENTER key in LOCAL.
 - · Cuttibg MENU will be displayed.
- Press (FUNC3) (>>).
- Press to select the "SETUP SUB MENU", and press the (ENTER) key.
- Press veral times, and select an item to set.
 - · See "List of Settings" to select one.
- Press (>>) and press the vitwice. • "SETUP RESET" will be selected.
- Press the (ENTER) key. 6 · The already configured settings are initialized.
- Press the (END/POWER) key several times to

Maintenance Function

This section gathers together the functions for checking/adjusting the cutting accuracy when cutting does not go normally.

Function name	Outline
MARK sensor ((P.4-15)	Adjusting the registration mark sensor.
SAMPLE CUT ((P.4-17)	In case that normal hanaokadata cutting cannot be performed etc., perform cutting with the sample stored in this machine to find out the cause of cutting error.
AUTO MEDIA CUT ((P.4-17)	You can cut a medium into multiple pieces with a certain length.
PC ORIGIN OFFSET ((APP.4-18)	Adjust the misalignment between the print origin and the cutting origin.
SCAKLE ADJUST ((P.4-19)	When printing and cutting without registration marks, adjustment is performed if the misalignment in the scanning direction occurs between the left and right edges of the media.

Maintenance of Mark Sensor

If cutting does not go normally, check the items below.? In registration mark sensor maintenance, you can carry out maintenance of the following items.

Item	Outline
SENSOR CHECK ((P.4-15)	checking the sensor for the register mark detection.
POINTER OFFSET ((2) P.4-16)	If the cutter unit fails to recognize any register mark properly, the possible cause is an error in the positional relationship between the mark sensor and the light pointer. In this case, correct the position of the light pointer.

Check the sensor for the registration mark detection

Prepare the media on which the registration mark is printed.



- If you move the head and sheet manually, you cannot perform the right response check. Be sure to perform it via the following operations.
- For conditions of already printed registration mark, refer to "Precautions in inputting data with registration marks" ((P.4-2).
- The setting values are kept in memory even when the power is turned off.
- The settings performed here for shape of the registration mark and length of the registration mark are reflected in the settings of "MARK DETECT".((P.4-6)
- The detection speed selected here will be used in the registration mark detection operations that are executed from here on.
- The pointer offset value selected by this operation is not initialized by SETUP RESET operation.



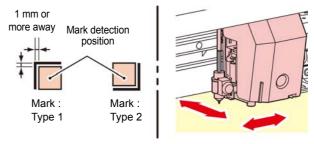
Press (A) (V) in Local.

• Enter the jog mode



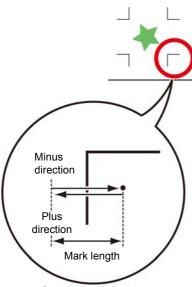
Press to move the tip of the pen to the registration mark detection position

 Perform registration mark detection at a position 1mm or more away from the registration mark.

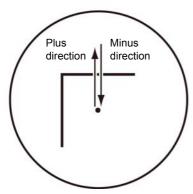


- Press the END/POWER key to terminate the jog mode.
 - The machine returns to the Local.
- Press the (FUNC1) (MENU) → (FUNC3) (>>)
 → ENTER key.
 - · Cuttibg MENU will be displayed.
- **5** Press (FUNC3) (>>).
- Press v to select the "MAINTENANCE", and press the ENTER key.
- 7 Press v to select "MARK SENSOR", and press the ENTER key.
- Press to select "SENSOR CHECK", and press the ENTER key.
- 9 Select the length of the registration mark and shape of the registration mark detection.
 - For details on setting the [SIZE] and [FORM], refer to the "Setting of Detecting the Registration Marks". (P.4-6)
- Press the ENTER to perform registration mark detection. (The "Detect operation")

■ Detect operation



Scan in the Y direction



Scan in the X direction

- Scan in the X direction (plus direction) to detect the line.
 - The buzzer sounds when the line is detected. If the line is not detected, the buzzer does not sound.
- Scan in the X direction (minus direction) to detect the line.
- Scan in the Y direction (plus direction) to detect the line.
- Scan in the Y direction (minus direction) to detect the line.
- Follow the Steps 1 to 4, and confirm if the buzzer sounds 4 times.
 - When the detection behavior completes successfully, the buzzer sounds 4 times.
 - If the buzzer does not sound, contact our sales office after checking the registration mark condition.

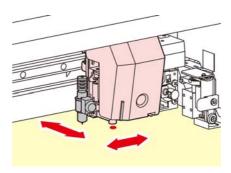
Correct the light pointer position

If the machine fails to recognize any registration mark properly, the possible cause is an error in the positional relationship between the MARK sensor and the light pointer.

In this case, adjust the position of the light pointer.

Install a cutter in the tool holder.

Load the copy paper.



- Press the (FUNC1) (MENU) → (FUNC3) (>>)
 → (ENTER) key in LOCAL.
 - Cuttibg MENU will be displayed.
- Press (FUNC3) (>>) .
- Press to select the "MAINTENANCE", and press the ENTER key.
- Press to select "MARK SENSOR", and press the ENTER key.
- Press vitwice to select "POINTER OFS".
- Press the ENTER key.
 - A 10 mm by 10 mm cross pattern will be cutted.
 - The light pointer turns on and moves to the center of the cross pattern.
- Press to adjust the light pointer position so that the center of the light pointer is in alignment with the center of the cross pattern.
- Press the ENTER key.
 - The machine will return to the local after registering the compensation value.

• The value registered in the [POINTER OFS] is not initialized even by executing the "SETUP RESET".

(***P.4-14)

Perform SAMPLE CUT to Find out the Cause of Cutting Error.

In case that normal data cutting cannot be performed etc., perform cutting with the sample stored in this machine to find out the cause of cutting error.

Sample "Cut"



Sample "Logo"





 Execution of SAMPLE CUT will clear the data in the receiver buffer



Press the (FUNC1) (MENU) → (FUNC3) (>>)
→ (ENTER) key in LOCAL.

· Cuttibg MENU will be displayed.



Press Func3 (>>).



Press to select the "MAINTENANCE", and press the ENTER key.



Press (**) to select the "SAMPLE CUT", and press the (ENTER) key.



Press to select the SAMPLE DATA to be cut.

• There are two types of samples, "Cut" and "Logo." If you select "Cut," proceed to Step 7.



Press the ENTER key.



Select scale factor using to cut Logo.

· Scale factor: 1 to 999%



Press the **ENTER** key for starting cutting.

Result of SAMPLE CUT

Sample data can be cut successfully, but other data cannot.

The host computer is faulty.

Sample data as well as other data cannot be successfully cut either. (When leaving the start/end lines without cutting off)

Increase the set value of [ADJ-PRS OFS] to raise the pressure for pressing the cutter blade down.

Cutting a Medium into Multiple Pieces with a Certain Length

You can cut a medium into multiple pieces with a specified length. (Automatic media-cutting function)

Function name	Outline
Cutting interval	Setting the interval for cutting the media.
Leading end adjustment cutting	Setting the length for cutting the medias' leading edges before auto media cut starts. With edge match cutting, the specified number of media sheets can be cut at equally spaced intervals, even if their leading edges were previously cut to be slanted or uneven.
Number of times a medium is cut	Setting the number of times (sheets) for media cutting.

1

Press the (FUNC1) (MENU) → (FUNC3) (>>)
→ (ENTER) key in LOCAL.

• Cuttibg MENU will be displayed.

2

Press (FUNC3) (>>) .

3

Press to select the "MAINTENANCE", and press the ENTER key.

4

Press to select the "MEDIA CUT", and press the ENTER key.

5

Press v to select a cutting interval, and press the ENTER key.

• Set value : 10 to 10,000 mm

6

Press to select a length for the leading end adjustment cutting, and press the enter key.

• Set value : 0 to 500 mm

7

Press v to select the number of times a medium is cut (number of pieces produced by cutting a medium), and press the ENTER key.

• Set value : 1 to 9,999

- The number of cuts that you set here will be executed.
- You can halt the cutting by pressing the [END/ POWER] key.



Press the **END/POWER** key several times to end the setting.

Cutting out Data without Register Marks (PC ORIGIN OFFSET)

Adjust the misalignment between printing and cutting by Print & Cut.

Print the adjustment pattern from RasterLink6, and enter the adjustment values to the printer.

For Print & Cut without registration marks



Set the machine to "REMOTE" status.

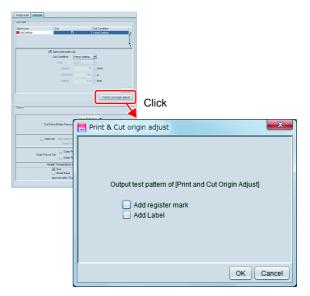


Set the print conditions (profile, cut conditions) of the job that you want to print using RasterLink6.



Click [print & cut Origin adjust] in the [Cut edit] tab of RasterLink6.

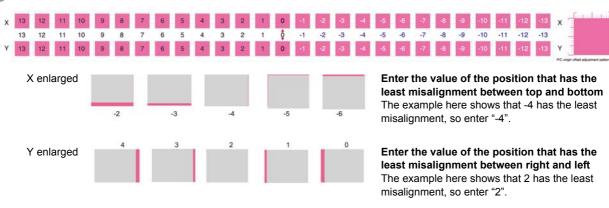
• Click [OK] to print the adjustment pattern.





When the pattern is printed, press FUNC1 (ADJUST) and select "PC ORIGIN OFFSET".

• When the media is fed, peal the cut part of the pattern, and check the adjustment values





Enter the adjustment values

• When you press the [ENTER] key, the media return, and the operation is completed.



- When printing the data that has a different resolution (Y), make adjustment again. (Save an adjustment value per resolution)
- You cannot print adjustment patterns with multiple conditions continuously, and enter the adjustment values. Make sure you print and set one adjustment value per condition.

For Print & Cut with registration marks

1

Set the machine to "REMOTE" status.

2

Set the print conditions (profile, cut conditions) of the job that you want to print using RasterLink6.

3

Click [print & cut Origin adjust] in the [Cut edit] tab of RasterLink6.

4

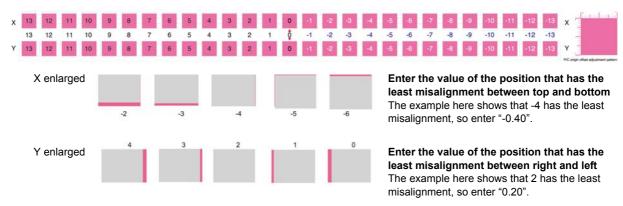
Select "Add registration mark".

• Click [OK] to print the adjustment pattern.

5

When the pattern is printed, press (FUNC1) (ADJUST) and select "TP OFFSET".

 When the media is fed, peal the cut part of the pattern, and check the adjustment values (The actual pattern has registration marks.)





Enter the adjustment values

• When you press the [ENTER] key, the media return, and the operation is completed.

Setting the Scale Adjust

When printing and cutting without registration marks, adjustment is performed if the misalignment in the scanning direction occurs between the left and right edges of the media.

When you perform scale adjustment, adjustment is performed automatically.

1

Set a media (P.2-4)

· Set the sheet to print the registration mark.

2

Press the SEL key, and press the (FUNC2) (ADJUST) in LOCAL.

· ADJUST MENU will be displayed.

3

Press (a) to select the "SCALE ADJUST", and press the (ENTER) key.

4

Press (a) to select the resolution, and press the (ENTER) key.

5

Press the (END/POWER) key several times to end the setting.

Chapter 5 Maintenance



This chapter

describes the items required to use this machine more comfortably, which are the methods for the daily care, the maintenance of the ink cartridges etc.

Maintenance5-2	Nozzle Recovery Function5-14
Precautions for Maintenance 5-2	Reset the set value5-15
About Cleaning Solution 5-2	Automatic Maintenance Function5-15
Cleaning the Exterior Surfaces 5-2	Setting the Refreshing Intervals5-16
Cleaning the Platen 5-2	Setting the Tube Wash Intervals5-16
Cleaning the Media Sensor 5-3	Setting the Cleaning Intervals and Type 5-16
Cleaning the Media Press 5-3	Fill up lnk5-17
Replacing the exhaust BOX filter or exhaust	White Ink Maintenance5-17
BOX 5-4	Replacing consumables5-18
Replace the blow down fan filter 5-4	Replacing the wiper5-18
Replace the CP pad set 5-5	If a Waste Ink Tank Confirmation
Replacing the pen line rubber or pen line	Message Appears5-18
sponge 5-5	Replacing the waste ink tank before the
Cleaning and replacing the pinch roller 5-6	waste ink tank confirmation message is
About MAINTENANCE MENU5-7	displayed5-20
MAINTENANCE MENUs at-a-glance 5-8	Replacing the Cutter Blade5-20
Maintaining the Capping Station5-9	Replacing and Adjusting the Cutter Blade5-21
Cleaning the Wiper and Cap5-9	Replacing the cutter5-21
Washing the Head Nozzle5-10	Adjusting the Cutter Blade5-21
Washing the Ink Discharge Passage 5-11	Replacing the cutter other than supplied
When the Machine Is Not Used for a	one5-21
Long Time 5-11	Adjusting blade edge of cutter other than
Cleaning the Ink Head and the Area	supplied one5-22
around It 5_13	

Maintenance

Maintain the machine regularly or as necessary so that its accuracy will be maintained and it can continue to be used for a long time.

Precautions for Maintenance

Pay attention to the following items when maintaining this machine



 When using cleaning solution for maintenance, be sure to wear the supplied protective glasses.



 Never disassemble the machine. Disassembling it can result in electric shock hazards or damage to the machine.

Before maintenance, be sure to turn off the power switch and unplug the power cable; otherwise, an unexpected accident may occur.



 Prevent moisture from entering the machine. Moisture inside the machine can cause electric shock hazards or damage to the machine.



- To ensure stable ink jetting, it is necessary for the machine to eject a small amount of ink (flushing) regularly when a printing (outputting) operation has not been performed for a long time.
- When the machine is not to be used for a long time, turn off only the power switch on the front side, leave the main power switch at the right side turned ON (in the position of |), and leave the power cable connected.



- Do not wipe the nozzle face of the heads, wiper, caps, etc. with water or alcohol.Doing so can cause nozzle clogging or machine failure.
- Do not use benzene, thinner, or any chemical agent containing an abrasive. Such materials can deteriorate or deform the surface of the cover.
- Do not apply a lubricant, etc. to any parts inside the machine. Doing so can cause printing failure.
- Be careful that the cleaning solution, ink, etc. not to stick to the cover because this may cause the surface of the cover to deteriorate or deform.

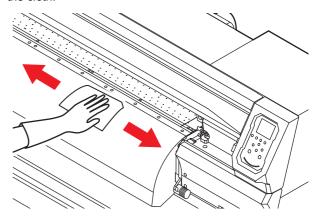
About Cleaning Solution

Use the cleaning liquid dedicated for the ink being used.

Type of Ink	Applicable maintenance washings
BS3/ BS4 ink	Maintenance washing liquid kit (SPC-0369) [Sold separately]

Cleaning the Exterior Surfaces

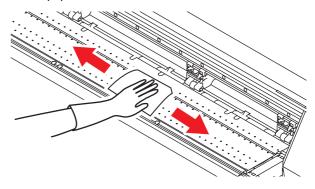
When the exterior surfaces of the machine are stained, dampen a soft cloth with water or a neutral detergent diluted with water, squeeze it, and wipe the surfaces with the cloth.



Cleaning the Platen

The platen easily gets dirty with lint, paper dust, etc. generated when a media is cut.

Wipe off conspicuous stains with a soft-hair brush, a dry cloth, a paper towel, etc.





 When the platen is stained with ink, wipe it off with a paper towel containing a small amount of cleaning solution for maintenance.



- Before cleaning the platen, make sure that the platen has cooled adequately.
- Because dust and dirt are easily accumulated in the slots for holding a media and cutting paper (cutter line), be sure to clean these parts carefully.

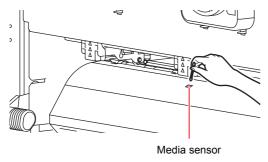
Cleaning the Media Sensor

The media sensors are located on the platen in the backside and the bottom surface of the head. When the sensor is covered with dust, etc., it may cause false detection of media.

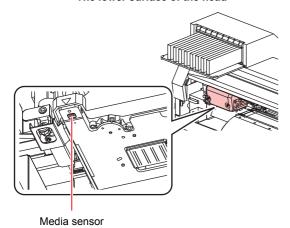
Using a cotton swab, remove the dust, etc. accumulated on the surface of the sensor.

When cleaning the sensor on the lower surface of the head is cleaned, move the carriage to the left end by the operations of step 1 of P.5-13 "Cleaning the Ink Head and the Area around It", and clean it.

The backside of the machine



The lower surface of the head



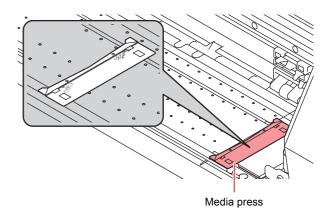


Don't touch the cutter around the media sensor.
 Sharp cutter tip may injure you.

Cleaning the Media Press

When the media press is covered with lint, dust, etc., a media cannot be fed normally during printing or dust sticks to the nozzles, which may result in abnormal printing.

Clean the media press regularly.



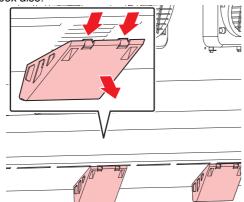
Replacing the exhaust BOX filter or exhaust BOX.

Replace the exhaust BOX filter (product number: SPA-0249) or the exhaust BOX (product number: SPA-0248) when it is dirty with ink.

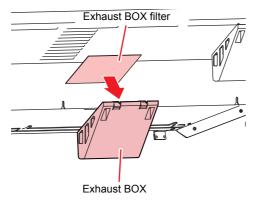


Remove the tabs (2 locations) on the exhaust BOX.

• There are tabs engaged at the rear of the exhaust box also.



Remove the exhaust BOX and exhaust BOX filter.

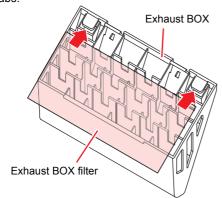


Replace the exhaust BOX filter or the exhaust BOX with a new one.



Attach the exhaust BOX filter to the exhaust BOX.

• Insert the exhaust BOX filter in the exhaust BOX tabs



Attach the exhaust BOX to its original location.

 Engage the exhaust box rear tabs into the machine body, then push in the front part of the box.

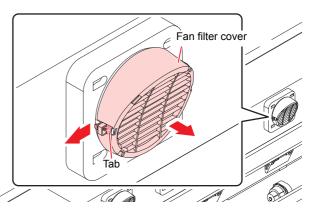
Replace the blow down fan filter.

Replace the blow down fan filter (SPC-0774) when it is dirty.

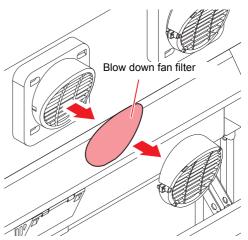


Remove the fan filter cover.

 Push the fan filter cover's tab outward, and pull the cover out toward you.

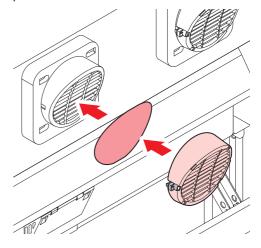


Remove the blow down fan filter.



Attach a new blow down fan filter and return the fan filter cover.

 Fit the fan filter cover on firmly, so that it clicks into place.

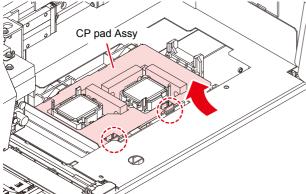


Replace the CP pad set.

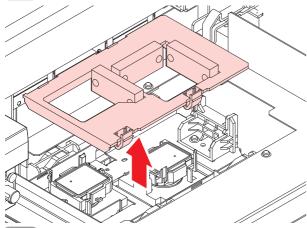
Replace CP pad set (SPA-0257) when it is dirty.



Push up the tabs (2places) of CP pad Assy.

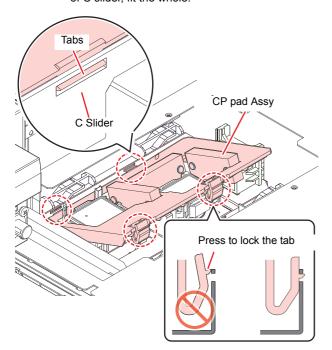


Remove the CP pad Assy.



Attach a new CP pad Assy.

• After inserting the tabs of CP pad Assy to the slit of C slider, fit the whole.



Replacing the pen line rubber or pen line sponge.

There are two types of pen line, one is rubber type and the other is sponge type.

Use the pen line rubber when writing with a pen or cutting a sheet.

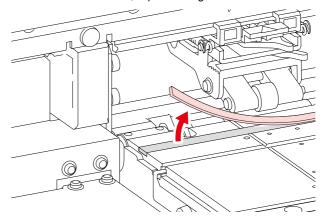
Use the pen line sponge when cutting on the dotted line (half cut).

If the pen line rubber (PN: SPC-0770 or SPC-0771) or pen line sponge gets worn, replace it (PN: SPC-0775 or SPC-0776).



Remove a pen line rubber or pen line sponge with tweezers.

• If double-sided tape glue remains in the groove of this machine, wipe off the glue with alcohol.



Attach the attached double-sided tape to the groove of this machine.



Put a new pen line rubber or pen line sponge on double-sided tape.

• Put a new pen line rubber or new pen line sponge flattened on the two-sided tape.

Cleaning and replacing the pinch roller.

Clean the pinch roller (product number: SPA-0166 or SPA-0167) when it is dirty.

Also, when the pinch roller wears out or the dirt of the pinch roller does not fall, replace the pinch roller.



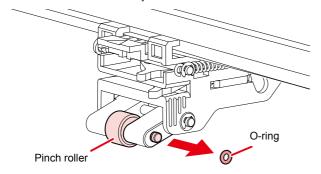
Raise the clamp lever.



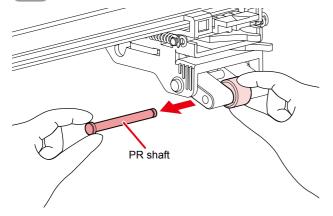
Remove the O-ring retaining the pinch roller.



 Be careful not to drop the parts in the gap of the machine as they are small.



Pull out the Pinch Roller shaft with care not to drop the pinch roller.



4

Remove the pinch roller.

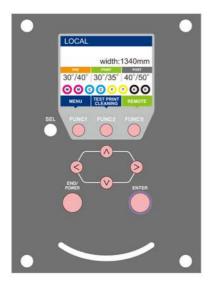


Clean or replace the O-ring and pinch roller.

- Wipe off the ink sticking to the O-ring and pinch roller with a clean stick dipped in cleaning solution for maintenance. Wipe off so that cleaning solution for maintenance will not remain.
- If it does not become clean even after cleaning, replace the pinch roller with the following procedure.
 - (1) Install a new pinch roller.
 - (2) Insert the PR axis and fit O ring.

About MAINTENANCE MENU

This provides various settings for doing maintenance on the machine. The following items can be set in Maintenance settings.



FUNC1: Press this to select MAINTENANCE MENU, or to switch to the previous screen.

(FUNC2): Press this to use the maintenance function.

(FUNC3): Press this to switch to the next screen.

: Use these to select a setting item.

(ENTER): Press this to confirm a setting, etc...

◆ MAINTENANCE MENUs at-a-glance







◆ Screen transition when (FUNC2) key is pressed



MAINTENANCE MENUs at-a-glance

Item		Set value	Meaning	
	For carrying out mainte	nance on the carria	nge and station periphery.	
	CARRIAGE OUT ((227 P.5-9)		Moves the carriage out, for carrying out cleaning of the cap periphery, head, wipers, etc.	
	NOZZLE WASH ((P.5-10)	1 to 99min	Soaks the nozzle surfaces in maintenance cleaning fluid, for carrying out recovery from nozzle clogging or bent.	
STATION MAINTENANCE	DISWAY WASH ((Carr P.5-11)		Executes washing of the suction pump tubes.	
	CUSTODY WASH ((2) P.5-11)	1 to 99min	Carried out when the machine is going to be out of use for an extended period. Washes the nozzles and tubes beforehand, to keep the machine in fine condition.	
	WIPER EXCHANGE (XXX) P.5-18)		Used when replacing the wiper. If the wiper is replaced, the number of times the wiper was used that is managed in this machine is reset.	
	For printing using anoth	For printing using another nozzle, if nozzle wash and so forth fail to effect recovery from nozzle clogging, etc.		
NOZZLE RECOVERY	PRINT		Prints a pattern, to identify the nozzle that is clogged.	
((23 P.5-14)	ENTRY		Registers the faulty nozzle identified by "PRINT".	
,	RESET		Resets a registered faulty nozzle.	
For having the various maintenance functions executed automati maintenance function.		ons executed automatically. Set the execution interval for each		
AUTO	REFRESH	The set value will	For setting the activation interval for refresh.	
MAINTENANCE	TUBE WASH	differ according to the ink type	For setting the activation interval for tube wash.	
((22 P.5-15)	CLEANING	being used.	For setting the activation interval for head cleaning.	
	CLEANING TYPE	NORMAL/SOFT/ HARD	For setting the type of head cleaning.	
INK FILLING ((P.5-17)	Supplies ink to correct nozzle clogging.			
INK TANK EXCHANGE ((P.5-20)	Resets or corrects the used count for the waste ink tank.			
WHITE/SILVER MAINT. ((22 P.5-17)	Executes the white and silver ink maintenance.			

Maintaining the Capping Station

Maintain the ink cap, wiper, etc. located in the capping station. (SATION MAINT.)



 To keep the nozzle status normal, perform wiper cleaning frequently.

The ink cap and wiper function as follows.

- Wiper : It wipes off ink sticking to the head nozzles.
- Ink cap: It prevents the head nozzles from clogging due to dryness.

As the machine is used repeatedly, the wiper and ink cap gradually become dirty with ink, dust, etc.

If nozzle missing cannot be corrected even after head cleaning (P.2-17) has been performed, use a maintenance liquid 07 kit and clean stick.

Tools required for Maintenance			
Maintenance washing liquid kit (SPC-0369)			
Clean stick (SPC-0527) Safety glasses			



- Be sure to wear the supplied safety glasses and gloves when maintaining the capping station. Otherwise, you may get ink in your eyes.
- Do not move the carriage out of the capping station by hand. When it is desirable to move the carriage, press the [FUNK1] key to execute the carriage-out. (P.5-9Steps 1 to 2)

Cleaning the Wiper and Cap

It is recommended that the wiper and cap be cleaned frequently in order to maintain the high image quality of the machine and keep the machine itself in good working order.



- Replace the wiper with a new one when it is extremely dirty or bent.(PP P.5-18)
- When cleaning the wiper, be careful that lint from the clean stick does not get left on the wiper.Remaining lint may cause image quality to deteriorate.

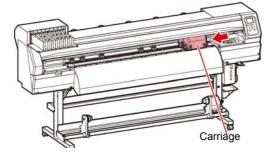


• MAINTENANCE MENU will be displayed.



Press the ENTER key twice.

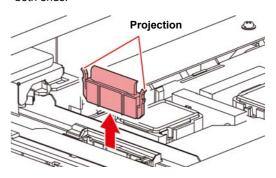
• The carriage moves onto the platen.





Remove the wiper.

 Pull out the wiper by holding the protrusions at its both ends

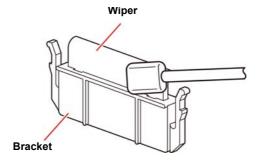




Clean the wiper and bracket.

 Wipe off the ink sticking to the wiper and bracket with a clean stick dipped in cleaning solution for maintenance.

Wipe off so that cleaning solution for maintenance will not remain.

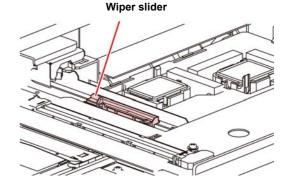




Clean the wiper slider.

 Wipe off the ink sticking to the wiper slider with a clean stick dipped in cleaning solution for maintenance.

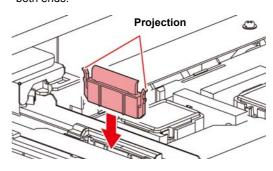
Wipe off so that cleaning solution for maintenance will not remain.





Set the wiper at the original position.

• Insert the wiper by holding the protrusions at its both ends.



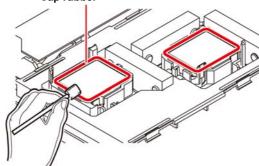


Clean the cap rubber.

 Wipe off the ink sticking to the cap rubber with a clean stick dipped in maintenance solution for maintenance.

Wipe off so that maintenance solution for maintenance will not remain.







Press the **ENTER** key after the cleaning.



Close the front cover then press the (ENTER) key.

 After its initial operation, the machine returns to step1.

Washing the Head Nozzle



Press the Func1 (MENU) →▼ →
ENTER key in LOCAL.

• MAINTENANCE MENU will be displayed.

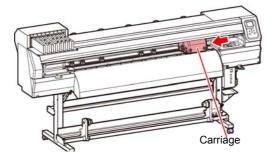


Press to select the "STATION", and press the ENTER key.



Press to select "NOZZLE WASH", and press the ENTER key.

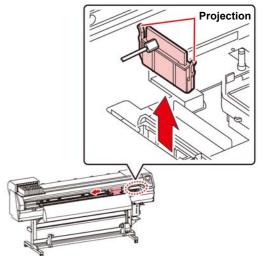
• The carriage will move onto the platen.





Clean the wiper and the bracket, and press the **ENTER** key.

- (1) Open the right maintenance cover then pull out it by holding projections at both ends of the wiper.
- (2) Clean the wiper and bracket with a clean stick dipped in maintenance washing liquid for maintenance. (SPC-0369)
 - Wipe off so that maintenance washing liquid for maintenance will not remain.
- (3) Insert it in the original position by holding the projections at both ends of the wiper.



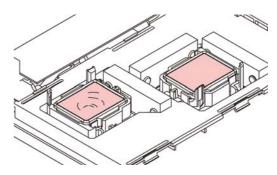


Clean the cap rubber, and press the ENTER key.

- Wipe off the ink sticking to the cap rubber with a clean stick dipped in maintenance washing liquid for maintenance.
- Wipe off so that maintenance washing liquid for maintenance will not remain.
- At this time, the discharge passage is cleaned automatically.



Fill up the cap with cleaning solution for maintenance.





Close the front cover, and press the **ENTER** key.



Press v to set the time for the maintenance washing liquid to be left as it is, and press the ENTER key.

- Set value : 1 to 99 minutes (Unit: minute)
- The maintenance washing liquid filled in the cap is absorbed
- "Please Wait" will be displayed in the display until the time you set has elapsed.



 When nozzle missing is not cleared even after this washing is carried out several times, contact the distributor in your region or our service office.

Washing the Ink Discharge Passage

Wash the ink discharge passage regularly(about once a week) to prevent the head nozzles from clogging due to ink coagulation inside the passage.



 Before washing the ink discharge passage, make sure that the maintenance washing liquid is set. If the maintenance washing liquid is not set, washing operation will not be conducted and the passage could be clogged.



Press the Func1 (MENU) → ▼ → ENTER key in LOCAL.

· MAINTENANCE MENU will be displayed.



Press to select the "STATION", and press the ENTER key.



Press to select "DISWAY WASH", and press the ENTER key.

- The carriage will move onto the platen.
- Dry suction operation is performed repeatedly until the washing work is completed.

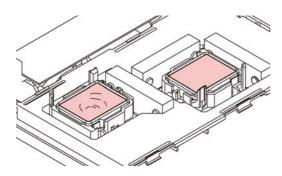


Press the (ENTER) key.

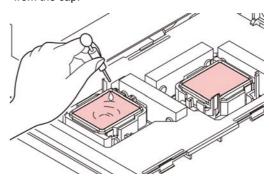
• Dry suction operation is performed repeatedly until the washing work is completed.



Fill up the cap with cleaning solution for maintenance.



 If the cleaning solution cartridge is not usable, suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.





Press the (ENTER) key.

When the Machine Is Not Used for a Long Time

When the machine is not going to be used for a week or more, use the cleaning function for custody to clean the head nozzles and ink discharge passage. After this, keep the machine in custody.



- Use the machine with always turning "ON" the main power. The function preventing nozzle clogging operates automatically to protect the head of the nozzle.
- The head nozzle may result in nozzle clogging if the main power switch is left OFF for a long time.

Check the items on the right beforehand.

Is [NEAR END] or [INK END] displayed?

 The cleaning solution or ink is absorbed when the nozzles are washed.

At this time, if the state of "no ink" or "almost no ink" is detected, the nozzle washing operation cannot start.

 Replace the cartridge with another from which the state of "almost no ink" or "no ink" is not detected.



 When the worning messages "Check waste ink" are indicated, check the waste ink tank, and operate it, referring to P.5-18 "If a Waste Ink Tank Confirmation Message Appears" according to the situation.



Press the (FUNC1) (MENU) → ▼ → ENTER key in LOCAL.

• MAINTENANCE MENU will be displayed.

2

Press to select the "STATION", and press the ENTER key.

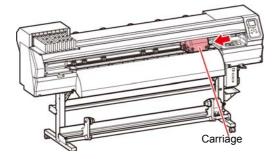


Press to select "CUSTODY WASH", and press the ENTER key.

• The carriage will move onto the platen.



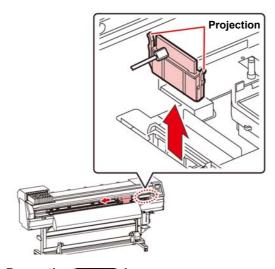
 Until wiper/ bracket cleaning is competed, "COMPLETED" is displayed on the screen. After the work up to the step 3 is completed, press the [ENTER] key. If you press the [ENTER] key before cleaning is completed, the machine moves to the next washing procedure.





Clean the wiper and the bracket.

- (1) Open the front cover then pull out it by holding projections at both ends of the wiper.
- (2) Clean the wiper and bracket with a clean stick dipped in cleaning solution for maintenance. (SPC-0369) Wipe off so that cleaning solution for maintenance will not remain.
- (3) Insert it in the original position by holding the projections at both ends of the wiper.





Press the ENTER key.



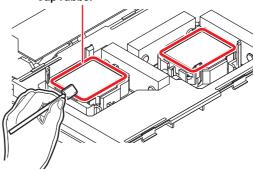
 Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 5 is completed, press the [ENTER] key. If you press the [ENTER] key before cleaning is completed, the machine moves to the next washing procedure.



Clean the cap rubber.

- Wipe off the ink sticking to the cap rubber with a clean stick dipped in maintenance solution for maintenance.
- Wipe off so that maintenance solution for maintenance will not remain.
- At this time, the discharge passage is cleaned automatically.







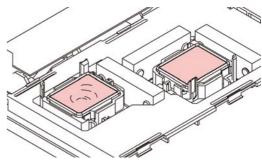
Press the ENTER key.



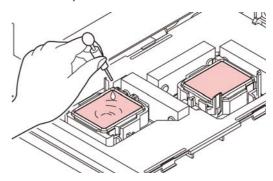
Until washing liquid is filled, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the Step 8 is completed and you close the front cover, press the [ENTER] key. If you press the [ENTER] key before washing liquid is filled, the carriage returns to the original position.



Fill up the cap with cleaning solution for maintenance.



 If the cleaning solution cartridge is not usable, suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.





Press the ENTER key.

10

Press to set the time for the cleaning solution to be left as it is.

• Set Value:1 to 99 min (by the unit of 1 min)



Press the (ENTER) key.

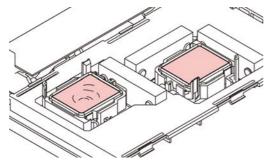
- · The nozzles are washed.
- When the nozzles have been completely washed, the head moves to the maintenance position.



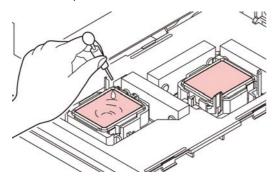
Open the front cover.



Fill up the cap with cleaning solution for maintenance.



 If the cleaning solution cartridge is not usable, suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.





Close the front cover and press the (ENTER) key.

 After its initial operation, the machine returns to step?

Cleaning the Ink Head and the Area around It

Because the ink head employs a very precise mechanism, due care needs to be taken when it is cleaned.

Using a clean stick, etc., rub off gelatinous ink or dust that may stick to the lower part of the slider and the area around the ink head. In doing so, never rub the nozzles of the head.

Tools required for cleaning		
Clean stick (SPC-0527)	Gloves	
Safety glasses		



- Be sure to wear the attached safety glasses and gloves when cleaning the area around the ink head.Otherwise, you may get ink in your eyes.
- The ink contains organic solvent. If you get the ink on your skin or in your eyes, wash it away with plenty of water immediately.



Press the (FUNC1) (MENU) → → → ENTER) key in LOCAL.

• MAINTENANCE MENU will be displayed.



Press the **ENTER** key twice to select the "CARRIAGE OUT".

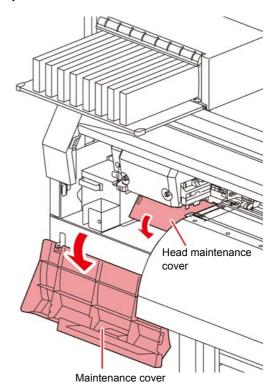


Press to select "HEAD MAINTENANCE", and press the ENTER key.

 The carriage will move to the left end of this machine.



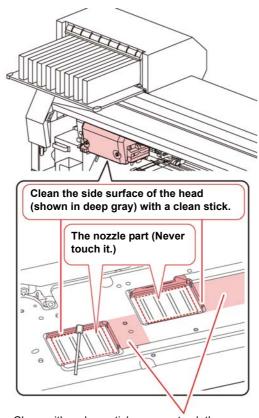
Open the maintenance cover.





Use a clean stick soaked in maintenance cleaning fluid to wipe ink off the head surface or other surfaces.

· Never rub the nozzles.



Clean with a clean stick or a waste cloth.



Press the **ENTER** key after the cleaning.



Close the maintenance cover, and press the $\overline{\text{ENTER}}$ key.

 After its initial operation, the machine returns to LOCAL.

Nozzle Recovery Function

NOZZLE RECOVERY: When nozzles missing can not be improved at specific points, other good nozzles can be used as alternatives for printing.



Press the (FUNC1) (MENU) → ▼ → ENTER key in LOCAL.

• MAINTENANCE MENU will be displayed.



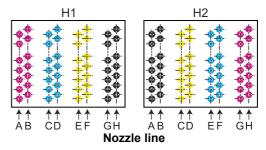
Press to select "NOZZLE RECOVERY", and press the ENTER key.



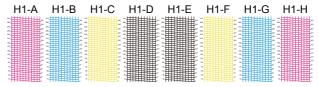
Press the ENTER key twice.

- Printing of the nozzle pattern will start.
- Select "ENTRY" then "Move to select of the Nozzle line (Step 4) without drawing a pattern"

Overhead view



Nozzle pattern of Head 1





- For 6-color ink sets, the nozzle patterns "H1-B" and "H1-D" are not printed.
- When using leaf media, set a media of more than A3 size put horizontally. If a media with narrow width is set, printing will only be conducted to midway.



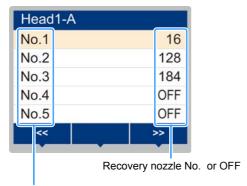
Select the Nozzle line that needs NOZZLE RECOVERY by pressing (**), and press (**) key.





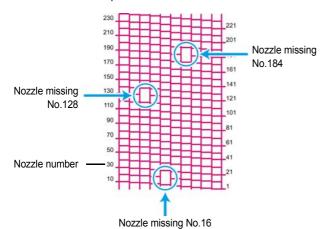
Register the Nozzle number that needs NOZZLE RECOVERY and press ENTER key.

- (1) Select the registration number from 1 to 10 by pressing [▲][▼] key and press the [ENTER] key.
- (2) Register the nozzle number that needs recovery by pressing [▲][▼] key and press the [ENTER] key.



Registration number: 1 to 10

Example of nozzle to be recovered



Registration number	Recovery Nozzle No.	State
1	16	Target for nozzle recovery
2	128	Target for nozzle recovery
3	184	Target for nozzle recovery
4	OFF	No registration
5	OFF	No registration



Press the END/POWER key several times to end the setting.



- Up to 10 nozzles can be registered per 1 nozzle
- Even if you use this function, time required for drawing does not change.
- When printing has been done with the lowest path, nozzle recovery is not reflected.
 Moreover, depending on the conditions, there are cases where only 20 to 120 nozzles are enabled at both head ends (front and rear). Perform test printing to confirm.



 When you use white ink, print on the clear film to check.

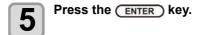
Reset the set value



Press the (FUNC1) (MENU) → ▼ → ENTER key in LOCAL.

- MAINTENANCE MENU will be displayed.
- Press to select "NOZZLE RECOVERY", and press the ENTER key.
- Press to select "RESET", and press the ENTER key.
- Press and Func1 (PAGE>)

 FUNC3 (<<) to selet theNozzle line that need reset, and press the ENTER key.
 - · A reset confirmation message will be displayed.





Automatic Maintenance Function

To use this machine comfortably, you can set various maintenances to be performed automatically.

Here, set performing intervals of various automatic maintenances.

You can prevent troubles such as ink clogging by performing automatic maintenance periodically (automatic maintenance function).

For the auto maintenance functions, the following items can be set:



 When you perform maintenance manually, after manual maintenance is completed and when time set with the automatic maintenance function has passed, maintenance starts automatically.

Function name	Descriptions
REFRESH	The interval between each refreshing operation is set.
CLEANING (Interval)	The interval between each cleaning operation is set.
CLEANING (Type)	The cleaning type is set.



- If the "Check waste ink" warning message is displayed, the operation set in the auto maintenance function is not carried out. Perform the operations of P.5-19 "Replace the waste ink tank with another" if required.
- When the power switch on the front of the machine is turned off, check the waste ink tank.

Setting the Refreshing Intervals

The interval between each operation of ejecting a small amount of ink from the nozzles to prevent nozzle clogging is set.



• MAINTENANCE MENU will be displayed.

Press to select "AUTO MAINTENANCE", and press the ENTER key.

Press to select the "REFRESH", and press the ENTER key.

Press to set the refreshing interval, and press the ENTER key.

• Set value: The set value will differ according to the ink type being used.

Press the <u>END/POWER</u> key several times to end the setting.

Setting the Tube Wash Intervals

For setting the interval at which washing of the ink tubes will be carried out, in order to prevent ink clogging due to coagulation of ink inside the ink tubes.



 In order to perform tube washing with the Automatic Maintenance Function, the maintenance washing liquid needs to be set. If the maintenance washing liquid is not set, tube washing operation will not be regularly conducted and the passage could be clogged.



• MAINTENANCE MENU will be displayed.

Press to select "AUTO MAINTENANCE", and press the ENTER key.

Press to select "TUBE WASH", and press the ENTER key.

Press to set the tube washing interval, and press the ENTER key.

• Set value : The set value will differ according to the ink type being used.

Press the END/POWER key several times to end the setting.

Setting the Cleaning Intervals and Type

The cleaning type and the interval between each cleaning operation are set.



• MAINTENANCE MENU will be displayed.

Press to select "AUTO MAINTENANCE", and press the ENTER key.

Press the several times to select "Interval" or "Type", and press the ENTER key.

Press to select a set value, and press the ENTER key.

• Set value : The set value will differ according to the ink type being used.

• Set value of type : SOFT/ NORMAL/ HARD

Press the **END/POWER** key several times to end the setting.

When 600cc cartridge is used

Even when [Ink Level] is displayed, enough ink for head cleaning may remain in the ink pack.

When [Ink Level] appears, see P.3-15 "When [Ink Level low] is displayed" and enter the current weight of the 600cc cartridge.

When the remaining ink is not enough for head cleaning

When the remaining ink is not enough for head cleaning, an error message "Error" shown on the step 3. Replace with a new ink pack, and then perform head cleaning again.

Fill up Ink

Supplies ink to correct nozzle clogging.



• MAINTENANCE MENU will be displayed.

Press to select "FILL UP INK", and press the ENTER key.

Press C

Press to select the filling type.

- : Use this in cases where head cleaning will not achieve recovery, such as when multiple clogged nozzles occur or nozzle cluster dropout occurs.
- Normal: Use this if nozzle cluster dropout occurs in initial ink filling.
- Use this in cases where the dumper has become empty, such as in dumper replacement.

Press the ENTER key.

- If you selected "Soft" in step 3, a Select Fill Up Color screen will be displayed.
 If you selected "Normal" or "Hard", go to step 6.
- Press to select the filling color, and press the ENTER key.
- Press the ENTER key.

 Ink is supplied automatically.
- Press the <u>END/POWER</u> key several times to end the setting.

White Ink Maintenance

White ink precipitates easier than other inks.

- If not printing more than two weeks, white ink may precipitate in the ink cartridge or inside of this machine.
- When an ink precipitates, the nozzle may be clogged and it can not draw normally.
- Make sure to perform periodical maintenance to avoid precipitation and to keep white ink in good condition.



(Important!)

- Perform the maintenance below before working once a week.
- · Use the specified ink cartridge.

As the component of white ink is easy to settle out, it is necessary to shake it periodically.

- When 24 hours have passed with the power supply is ON.
- When the power supply is ON, the warning message "SHAKE WHITE INK CARTRIDGES" is displayed.
- Press the Func1 (MENU) •••

 ENTER key in LOCAL.
 - MAINTENANCE MENU will be displayed.
- Press (FUNC1) (<<), and press the (ENTER) key.
- Press to select "WHITE MAINT", and press the ENTER key.
- Press the ENTER key.
 - Press the ENTER key.
 The automatic discharging operation and the filling operation are performed, then, cleaning is performed.
- Press the END/POWER key several times to end the setting.

Replacing consumables

Replacing the wiper

The wiper is consumable. When the display indicates the warning message "Replace a WIPER" it is necessary to check and replace the wiper, immediately replace the wiper with a new one.

Also, wipe ink sticking to the lower surface of the slider off.



- When the warning message for replacing wiper is shown, confirm whether there is no damage and fuzz at the top edge of the wiper film. If there is no damage on the top edge of the wiper film, it is possible to use the wiper continuously without replacing it.
- A cleaning wiper is an option. Buy one through the dealer in your region or at our service office.



Press the Func1 (MENU) → ▼ → ENTER key in LOCAL.

· MAINTENANCE MENU will be displayed.



Press to select the "STATION", and press the ENTER key.



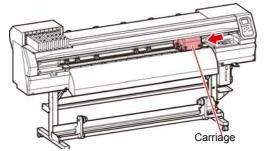
Press to select "WIPER EXCHANGE", and press the ENTER key.

 The number of times the wiper was used will be reset.



Press the ENTER key.

The carriage will move onto the platen.

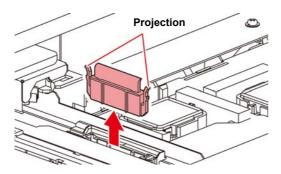


 The number of times the wiper was used will be reset.



Remove the wiper.

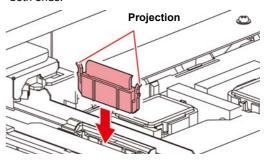
 Pull out the wiper by holding the protrusions at its both ends.





Insert a new wiper.

 Insert the wiper by holding the protrusions at its both ends.





Press the (ENTER) key.

 After its initial operation, the machine returns to LOCAL.

If a Waste Ink Tank Confirmation Message Appears

Ink used in head cleaning, etc. is stored in the waste ink tank on the lower right side of the machine. This machine counts the accumulated amount of discharged ink. When that reaches a specified amount, the machine displays a confirmation message. (When this message is displayed, consider the replacement of the waste ink tank.)



 The message is displayed when it reaches 80% (1.6L) of the 2L tank.

Confirmation Message in LOCAL



The warning message "Check waste ink" is displayed.



Check the state of the waste ink tank

- When it is different from the actual amount, press
 [▲][▼] and correct.
- When you correct (80%), press the [ENTER] key to return to LOCAL.
- When you replace (disposal) and clear the count, perform the procedures in "Replace the waste ink tank with another". (P.5-19)

Replace the waste ink tank with another

- 1
- The warning message "Check waste ink" is displayed.
- 2

Press the (FUNC2) (MAINT.) key.

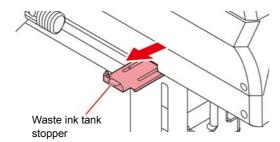
3

Check the state of the waste ink tank.

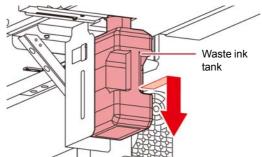
4

If the amount of waste ink needs to be adjusted, press the (ENTER) key.

- Compare the amount of waste ink shown on the display and the amount you visually confirmed. If there is no major problem with the value shown on the display, instead of the [ENTER] key, press the [END] key and proceed to Step 6.
- Press to adjust the level, and press the ENTER key.
- Pull the waste ink tank stopper to open to the front.

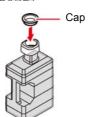


Pull it frontward to remove by holding the waste ink tank handle.





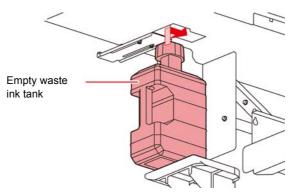
 Put a cap on the waste ink tank removed.



8

Replace the waste ink tank.

- (1) Prepare a new tank, or use the same waste ink tank (SPC-0117) after you have disposed of the waste ink inside.
- (2) Insert the waste ink tank by holding a handle of the tank.

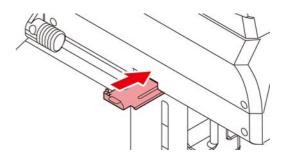




 Waste ink is equivalent to waste oil of industrial waste. Request an industrial waste disposal company for disposal of waste ink.



Close the waste ink tank stopper.



10

Press the ENTER key.

• The ink discharging amount that is controlled by the machine is reset and the message is cancelled.

Replacing the waste ink tank before the waste ink tank confirmation message is displayed

if you replace the waste ink tank before the waste ink tank confirmation message is displayed (before the 2L tank is 80% (1.6L) full), set the waste ink information to 0% in the Information menu.



Perform steps 6 through 9 in "Replace the waste ink tank with another" (P.5-19) to empty the waste ink tank.



Press the Func1 (MENU) →▼ →

ENTER key in LOCAL.

• MAINTENANCE MENU will be displayed.



Press to select "INK TANK EXGHANGE", and press the ENTER key.



Waste ink tank information is displayed.



Press the (FUNC2) (v).

 The reset screen for the waste ink tank amount will be displayed.



Press the (ENTER) key.

 The waste ink tank amount that is managed in this machine will be reset.

Replacing the Cutter Blade

The media cutter blade is consumable. When the cutter blade gets dull, replace it with a new one (SPA-0107).



- The blade is sharp. Be careful not to hurt yourself or anyone else.
- Store the cutter blade in a place that is out of the reach of children. In addition, dispose of used cutter blades according to regional laws and regulations.



 When replacing the cutter blade, it is recommended to place a sheet of paper under the cutter blade. This will help pick up the cutter blade if it drops.



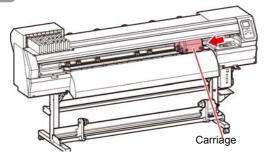
Press the (FUNC1) (MENU) → ▼ → ENTER key in LOCAL.

• MAINTENANCE MENU will be displayed.



Press the (ENTER) key twice.

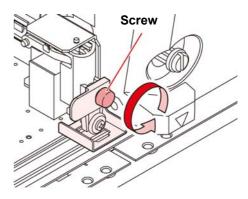
• The carriage moves onto the platen.

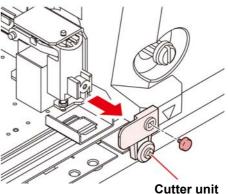


3

Replace the cutter unit by the carriage.

- Now the cutter unit can be moved manually. Move the cutter unit to the position where you can assure easy access, and replace the blade edge.
- (1) Loosen the screw of the cutter unit.
- (2) Remove the cutter unit.
- (3) Mount a new cutter unit.
- (4) Fasten the screw of the cutter unit to secure the cutter unit.







When replacement is finished, press the ENTER key.

• The screen returns to LOCAL.

5

Replacing and Adjusting the Cutter Blade



- The cutter blade is sharp. Keep your fingers away from the cutter.
- Do not shake or swing the cutter holder; otherwise, the cutter blade may come off, which is dangerous.
- Keep the cutter out of reach of children. Dispose of the used cutter blade in compliance with the applicable regulations.

Replacing the cutter

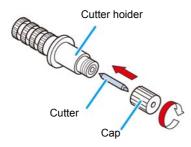
If the cutter is chipped or blunt, replace it with a new one. (Accessorry parts number: SPA-0030)

New cutter (low-pressure blade set for PVC sheets: Model SPB-0030) are available from your distributor or MIMAKI's sales office.

Name of product	Product No.	Specific ations	Remarks
Decentering blade for vinyl sheet	SPB-0001	Three blades	
Decentering blade for small letters	SPB-0003	Three blades	
Decentering blade for rubber sheet	SPB-0005	Three blades	
Decentering blade for reflecting sheet	SPB-0006	Two blades	
Decentering blade for fluorescent sheet	SPB-0007	Three blades	
Replacing the cutter other than supplied one	SPB-0030	Three blades	supplied one
Decentering blade for thick rubber sheet	SPB-0084	Three blades	



Remove the cap located at the edge by rotating it.



2

Replace the cutter with a new one using tweezers or the like.

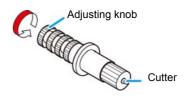
Adjusting the Cutter Blade

After adjusting the blade edge, set the cut condition and perform test cut to check whether cutting is performed well.



Turn the adjusting knob to adjust the protruding amount of the cutter.

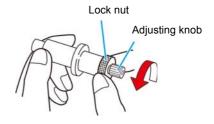
arrow to protrude the cutter blade.
 (0.5 mm per revolution)



Replacing the cutter other than supplied one

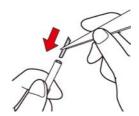


Loosen the lock nut, and pull the adjusting knob out of the holder.



2

Insert the cutter into the adjusting knob using tweezers.



3

Tighten the lock nut.



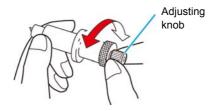
Adjusting blade edge of cutter other than supplied one



Loosen the lock nut.



2 Turn the adjusting knob to adjust the protruding amount of the cutter blade.



Tighten the lock nut so that the adjusting knob will not turn.





 The blade adjuster (Product No.: OPT-S1005) will facilitate the adjustment of the protruding amount of the blade.

Chapter 6 Troubleshooting



This chapter

describes the corrective measures to be taken for a phenomenon suspected to be trouble and the procedures to clear the error number displayed on the LCD.

Troubleshooting	6-2
Power does not turn on	6-2
The machine does not start printing	6-2
Media get jammed / media is soiled	6-2
The heater's temperature will not rise to the set level	6-3
Image quality is poor	6-3
Nozzle is clogged	6-3
Ink cartridge warning appears	6-4
When the ink leakage occurs	6-4
Warning / Error Messages	6-5
Warning messages	6-5
Error messages	6-8

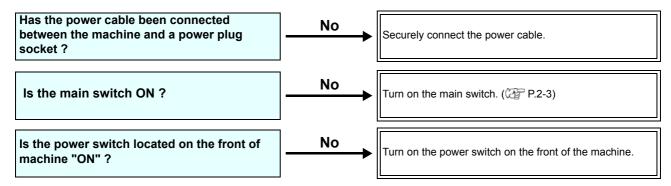
Troubleshooting

Take appropriate actions as described below before taking the trouble as a failure.

If still the problem is not solved after troubleshooting, contact your local distributor, our sales office, or service center.

Power does not turn on

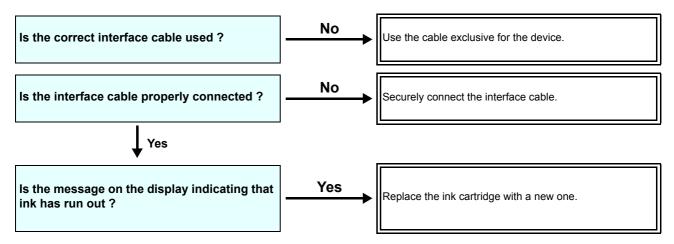
In most cases, this is due to improper connection of the power cable for the machine or computer. Check that the power cable is connected properly.



The machine does not start printing

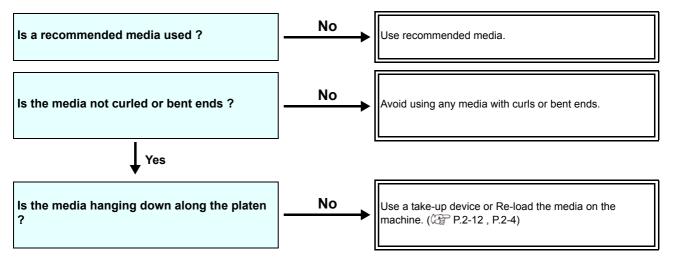
This occurs when the data is not being transmitted to the machine properly.

It can also occur when the printing function does not work properly or the media is not set correctly.



Media get jammed / media is soiled

Media jamming or stained media is considered to be due to the use of an unsuitable media or improper setting of media.



The heater's temperature will not rise to the set level

Check the basic operation.

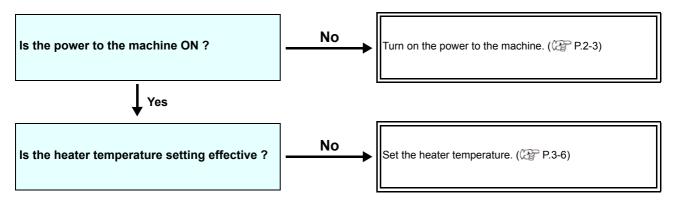


Image quality is poor

This section describes the corrective actions to be taken in case the image quality is not satisfactory.

Take remedy for particular problems with image quality. If the remedy does not work, contact your local distributor, our sales office, or service center.

Phenomenon	Measures	
White lines / blur / dark stripes (in the direction of travel of the heads)	 (1) Execute the head cleaning. (P.2-17) (2) Perform maintenance of the inside of the station. (P.5-9) (3) Execute the [FEED COMP.] function. (P.3-5) (4) If any pieces of paper or dust is attached on the path of the heads such as media press, remove it. 	
Characters are double- or triple-printed in the media feed direction	(1) Execute the [FEED COMP.] function. (P.3-5)	
Disagreement in print positions between outward trip and homeward trip	(1) Execute the [DROP POSITION] function. (P.3-6)	
Ink drops falling on media during printing	 (1) Execute the wiper cleaning. (P.5-9) (2) Execute the ink cap cleaning. (P.5-9) (3) Clean around the head. (P.5-13) (4) Execute the head cleaning [NORMAL]. (P.2-17) (5) Set the INTERVAL WIPING operation. (P.3-9) 	

Nozzle is clogged

When nozzle clogging is not dissolved even after the head cleaning referring to P.2-17, make sure the following operations.

- Wash the head nozzle by the operations of P.5-10.
- Wash the head nozzle surface by the operations of P.5-13.
- Recovery the nozzle by the operations of P.5-14.

Ink cartridge warning appears

If an ink cartridge trouble is detected, the cartridge LED "red" is lit, and a warning message appears. None of printing, cleaning and all the other operations that use ink is available. In this case, replace the ink cartridge in question immediately.

Displaying the description of ink cartridge trouble

The contents of cartridge error are confirmable by the following operations.



Once cartridge trouble is displayed, do not leave the ink cartridge without replacing it for a long time; otherwise, the
machine will lose the nozzle clogging prevention function.
 If nozzles are clogged, the machine must be repaired by MIMAKI's service engineer.



Press the ENTER key in LOCAL.



Press the ENTER key.

When the ink leakage occurs

If the ink leakage occurs, unplug the power plug to turn off the main power switch, and contact your local distributor, our sales office, or service center.

Warning / Error Messages

If some trouble occurs, the buzzer sounds and the display shows a corresponding error message. Take an appropriate remedy for the displayed error.

Warning messages

Errors when performing operations

Message	Cause	Solution
INVAILD OPERATION :MEDIA UNDETECT	Operation cannot be performed because no media is detected.	Execute after media is detected.
INVAILD OPERATION :MOTOR POWER OFF	The motor is OFF after the cover was opened etc.	Return to LOCAL and execute the operation after completion of initialization.
INVAILD OPERATION INK ERROR	An ink error occurred.	Execute the operation after replacing with a new ink cartridge.
INVAILD OPERATION COVER OPEN The front cover or the maintenance cover is opened.		Execute the operation after closing the cover.
INVAILD OPERATION DATA REMAIN	Data was received.	Execute the operation after executing data clear.(P.2-19)

Message displayed in LOCAL

Message	Cause	Solution
Can't print/cartridge	Multiple ink errors (unusable ink) have occurred, making it impossible to feed ink (printing and cleaning, etc.).	Replace with a new ink cartridge.
Check waste ink	The waste ink tank count has exceeded the prescribed amount.	Check the amount of waste ink in the waste ink tank. Conduct maintenance and waste ink tank replacement, and reset the amount of waste ink.
Replace WIPER	The used count of wiper has exceeded the prescribed number.	Execute maintenance, station maintenance and wiper exchange and replace the wiper.
HEATER Temp. error Powered off	Displayed when power is forcibly turned OFF and restarted after occurrence of "ERROR 710 heater temp error".	When displaying again, contact your local distributor, our sales office, or service center.
NO MEDIA	No media is set. Or, the sensor is faulty.	Set the media. If the same error message still appears after setting the media, contact your local distributor, our sales office, or service center.
DATA REMAIN	Print data is received in LOCAL.	Shift to REMOTE and execute printing. Or, execute data clear and cancel printing.
MACHINE TEMP./H **°C	Stable printing cannot be done because temperature in the installed environment (machine) is too high.	Adjust the ambient temperature to within the
MACHINE TEMP./L **°C	Stable printing cannot be done because temperature in the installed environment (machine) is too low.	specified scope (20°C to 35°C).

Message	Cause	Solution
Shake WHITE INK - cartridges	A warning to prevent settling of the white ink cartridge is regularly displayed.	Shake the white ink cartridge to prevent the ink components from settling.
Replace tha spout rubber - of ECO-CARTRIDGES	It is time to replace spout rubber of the eco-case (MBIS).	Ink may leak from the eco-case. Replace spout rubber.
Wash liqid cartridge none	The maintenance washing liquid cartridge is not set. Wiper washing and pump tube washing cannot be executed. (Auto maintenance operation)	Set the maintenance washing liquid cartridge.
Wash liqid end	There is no remaining maintenance washing liquid. Wiper washing and pump tube washing cannot be executed. (Auto maintenance operation)	Replace with a new washing liquid cartridge.
NCU SENSOR LEVEL LOW	The NCU sensor sensitivity is falling.	Replacement of the NCU is recommended. Contact your local distributor, our sales office, or service center.
Nozzle Missing Print Stopped	Because the nozzle check found nozzles missing, printing was stopped.	Perform head cleaning (P.2-17) and deal with the nozzles clogging (P.6-3).
NCU FLUSH POS Nozzle check OFF		Take steps according to the explanation for "ERROR 655 / NCU FLUSH POS".
NCU CENTER POS Nozzle check OFF	December of NOIL related covers of	Take steps according to the explanation for "ERROR 654 / NCU CENTER POS".
NCU SN ADJST Nozzle check OFF	Because an NCU-related error occurred during nozzle check, printing was stopped and the nozzle check function was turned OFF.	Take steps according to the explanation for "ERROR 656 / NCU SN ADJST".
NCU NZK CHK (HW) Nozzle check OFF	That taniba or i	Take steps according to the explanation for "ERROR 652 / NCU NZK CHK (HW)".
NCU NZK CHK (MARK) Nozzle check OFF		Take steps according to the explanation for "ERROR 653 /NCU NZK CHK (MARK)".
NCU CONNECT	The NCU unit is not connected. The nozzle check function cannot be used.	Turn the main power OFF, wait a while, and turn it ON again. If the same error message appears, contact your local distributor, our sales office, or service center.
REPLACE NCU	The NCU sensor sensitivity is too low to correctly judge nozzle missing. The nozzle check function cannot be used.	NCU replacement is necessary. Contact your local distributor, our sales office, or service center.
REPLACE NCU INK PAD	The NCU ink pad is full.	It is necessary to replace the NCU ink pad. Contact your local distributor, our sales office, or service center.
NCU ERROR Nozzle check OFF	Because an NCU-related error occurred during nozzle check, printing was stopped and the nozzle check function was turned OFF.	Contact your local distributor, our sales office, or service center.

Ink Error

Ink error is displayed also in the local guidance. ((P.3-27)

Message	Cause	Solution
WRONG INK IC The IC chip of the ink cartridge cannot be read normally.		Remove the cartridge generating the warning once and install it again. When displaying again, contact your local distributor, our sales office, or service center.
INK TYPE	The ink of the ink cartridge is different in type from the ink currently supplied.	Check the ink type of the cartridge generating the warning.
INK COLOR	The ink of the ink cartridge is different in color from the ink currently supplied.	Check the ink color of the cartridge generating the warning.
WRONG CARTRIDGE	An error occurred in the IC chip information of the ink cartridge.	Check the cartridge generating the warning.Make sure there is no nozzle clogging
NO CARTRIDGE	An ink cartridge has not been installed in the slot.	Install an appropriate cartridge in the slot generating the warning.
INK END	The ink of the ink cartridge has been completely used up.	Replace the cartridge generating the warning with a new one.
INK NEAR END	There is only a little bit of ink left in the ink cartridge.	The ink will soon be used up. Be careful.
Expiration	The ink of the ink cartridge has been nearly used up.	Replace the cartridge generating the warning with a new one. However, it can be used until the month after next.
Expiration:1MONTH	The specified expiration date of an ink cartridge has passed. (one month has passed after the specified expiration date)	The expiration date has passed. However, you can use it until the end of the following month.
Expiration:2MONTH	The expiration date of an ink cartridge has passed (two months have passed after the specified expiration date).	More than two months have passes after the expiration date. Replace the cartridge generating the warning with a new one.
ERROR 63c INK REMAIN ZERO	The ink remaining has become 0. (Only when ink end / 4 color ink set)	Replace the cartridge with a new one.
INK LVL LOW	When using a 600cc cartridge, the remaining ink has dropped to less than 60cc.	Remove and weigh the 600cc cartridge, then set it again.
INK LVL END	When using a 600cc cartridge, the remaining ink has dropped to less than 25cc.	(@P P.3-15 "When [Ink Level low] is displayed")

Error messages

When an error message is displayed, eliminate the error according to the chart below. When displaying again, contact your local distributor, our sales office, or service center.

Message	Cause	Solution
ERROR 122 CHECK:SDRAM	SDRAM is defective.	Turn off the never to the machine and to the
ERROR 128 HDC FIFO OVER	Head control circuit board is defective.	 Turn off the power to the machine and turn it on after a while. When displaying again, contact your local distributor, our sales office, or service center.
ERROR 128 HDC FIFO UNDER	Tread control official pour a for delegave.	
ERROR 129 BATTERY EXCHANGE	The battery life end of the internal clock is detected.	Contact your local distributor, our sales office, or service center.
ERROR 130 HD DATA SEQ	Head data transferring sequence error occurred.	
ERROR 146 E-LOG SEQ	Sequential number abnormality of the event log occurred.	
ERROR 151 Main PCB V1R2		
ERROR 152 Main PCB V2R5		• Turn off the power to the machine and turn it
ERROR 153 Main PCB V3R3	An error occurred in the main PCB .	
ERROR 154 Main PCB V05	7 AT OTO COOLING IN THE HIGHIN C.S.	
ERROR 157 Main PCB VTT		
ERROR 16e Main PCB V3R3B		on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 15f HEAD DRIVE HOT	COM driver becomes the high temperature.	4.0.1.0.1, 3.1. 3.1.0.5 3.1.0.5, 3.1.0.1
ERROR 171 NEW HEAD CONNECT	New Print Head was recognized.	
ERROR 186 HDC OVERFLOW		
ERROR 186 HDC UNDERFLOW	An error is detected on the waveform	
ERROR 187 HDC SLEW RATE	printed on.	
ERROR 188 HDC MEMORY		
ERROR 18a Main PCB V_CORE	An error occurred in the main PCB .	

Message	Cause	Solution
ERROR 18c Main PCB V12	- An error occurred in the main PCB .	
ERROR 190 Main PCB V42-1		
ERROR 192 COMIO PCB V1R2		
ERROR 193 COMIO PCB V2R5	An error occurred in the COM16/32IO	
ERROR 194 COMIO PCB V3R3	PCB.	Turn off the power to the machine and turn it
ERROR 195 COMIO PCB V24		on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 1a0 SLDR2H PCB V1R2		
ERROR 1a6 SLDR2H PCB V2R5		
ERROR 1a7 SLDR2H PCB V3R3	An error occurred in the SLIDER2H PCB	
ERROR 1a8 SLDR2H PCB V5		
ERROR 1a9 SLDR2H PCB V42		
ERROR 201 COMMAND ERROR	The machine received some data other than print data. Or, an error occurred in the transmitted print data.	Securely connect the interface cable in position. Use an interface cable conforming to the
ERROR 202 PARAMETER ERROR	An error occurred in the transmitted print data.	specifications.
ERROR 304 USB INIT ERR	An error occurred in the communication	
ERROR 305 USB TIME OUT	of USB.	Turn off the main power to the machine and turn it on after a while.
ERROR 401 MOTOR X	An excessive load was applied to the X motor.	When displaying again, contact your local distributor, our sales office, or service center.
ERROR 402 MOTOR Y	An excessive load was applied to the Y motor.	
ERROR 403 X CURRENT	An error due to an excessive current of the X motor was detected.	Turn off the main power to the machine and turn it on after a while.
ERROR 404 Y CURRENT	An error due to an excessive current of the Y motor was detected.	When displaying again, contact your local distributor, our sales office, or service center.
ERROR 44f Take-UP Roll Sns Err	Roller sensor abnormality • The roller sensor cannot be correctly read.	Confirm that the winding unit of machine setting and tension bar setting are ON. Check the set state of the media. Confirm that the winding unit operates using the manual SW.

Message	Cause	Solution
ERROR 45a P-HEAD TAKE OFF Err	Could not separate the print head.	
ERROR 45b P-HEAD CONNECT Err	Could not connect to the print head.	Turn off the main power to the machine and turn it on after a while.
ERROR 45c C-HEAD TAKE OFF Err	Could not separate the cutter head.	When displaying again, contact your local distributor, our sales office, or service center.
ERROR 45d C-HEAD CONNECT Err	Could not connect to the cutter head.	
ERROR 45e CHECK PR/GR POSITION	The pinch roller position is not appropriate.	Place the pinch roller above the grid roller. When displaying again, contact your local distributor, our sales office, or service center.
ERROR 505 MEDIA JAM	The media jam occurs.	Remove the media and reset it.
ERROR 509 HDC POSCNT	An error occurred in the control position.	
ERROR 50a Y ORIGIN	Y-origin could not be detected.	Turn off the main power to the machine and
ERROR 50f L-SCALE BLACK		turn it on after a while. When displaying again, contact your local distributor, our sales office, or service center.
ERROR 529 LEnc.Count HPC[]	Abnormal linear scale.	
ERROR 52a LEnc.Count HDC[]		
ERROR 52c MEDIA WIDTH SENSOR	The media width could not be correctly read.	 Check the media set position. (P.2-4) Clean the media sensor. (P.5-3) Turn the main power OFF, wait a while, and turn it ON again.
ERROR 516 MEDIA SET POSITION R	The media is set outside the proper area.	Check the media set position. (P.2-9)
ERROR 528 PUMP MOTOR SENSOR	Pump sensor detection error	Turn the main power OFF, wait a while, and turn it ON again.If the same error message appears, contact your local distributor, our sales office, or service center.
ERROR 602 CARTRIDGE END	Ink end (cannot be used, can only be used when cleaning with the 4-color ink set)	Replace with new ink.
ERROR 608 WRONG INK IC	The ink cartridge IC chip cannot be correctly read.	Make sure that the cartridge is correctly inserted. Reinsert the cartridge. Turn the main power OFF, wait a while, and turn it ON again.If the same error message appears, contact your local distributor, our sales office, or service center.
ERROR 612 INK LVL LOW	When using a 600cc cartridge, the remaining ink has dropped to less than 60cc.	• Remove and weigh the 600cc cartridge, then set it again. (P.3-15 "When [Ink Level
ERROR 613 INK LVL END	When using a 600cc cartridge, the remaining ink has dropped to less than 25cc.	low] is displayed")

Message	Cause	Solution
ERROR 614 Preservation Failure	Writing in IC failed in the 600cc cartridge use and the weight input.	 Make sure that the cartridge is correctly inserted. Reinsert the cartridge. Turn the main power OFF, wait a while, and then turn it ON again. If the same error message appears, contact your local distributor, our sales office, or service center.
ERROR 627 RE-INSERT CARTRIDGE	There is a slot in which the cartridge has not been inserted more than a certain time.	Set a cartridge.
ERROR 628 WRONG INK CARTRIDGE	A problem has occurred in the ink cartridge IC chip information. The used count has exceeded the prescribed value.	Make sure there is no nozzle clogging (especially for the white ink).
ERROR 628 WRONG INK CARTRIDGE	A problem has occurred in the ink cartridge IC chip information. The used count has exceeded the prescribed value.	 For MBIS or BS ink use. Replace the IC chip (Make sure to replace the IC chip at the same time to replace the ink pack). Make sure there is no nozzle clogging (especially for the white ink).
ERROR 63c INK REMAIN ZERO	Remaining ink is 0 in the cartridge (ink end/ only when the 4-color ink set is used).	Replace with new ink.
ERROR 64C NCU ERROR	The nozzle check has been suspended due to some problem.	Turn the main never OFF wait a while and
ERROR 650 NCU CONECT	The NCU unit is not connected.	Turn the main power OFF, wait a while, and turn it ON again. If the same error message appears, contact your local distributor, our sales office, or ser-
ERROR 651 REPLACE NCU	The NCU sensor sensitivity is too low to correctly judge nozzle missing. The nozzle check function cannot be used.	vice center.
ERROR 652 NCU NZK CHK (HW)	The NCU cannot correctly recognize the ink discharge, because there are fre-	Check the state of the nozzles, and if there are frequent nozzle missing and ink droplet misalignment, conduct cleaning to restore.
ERROR 653 NCU NZK CHK (MARK)	quent nozzle missing and ink droplet misalignment.	
ERROR 654 NCU CENTER POS	Adjustment of the discharge position to	
ERROR 655 NCU FLUSH POS	the NCU has failed.	
ERROR 656 NCU SN ADJST	Sensor sensitivity adjustment has failed.	Check the state of the nozzles, and if there are frequent nozzle missing and ink droplet misalignment, conduct cleaning to restore. If the same error message still appears after restoring the state of the nozzles, contact your local distributor, our sales office, or service center.
ERROR 657 REPLACE NCU INK PAD	The NCU ink pat is full.	Contact your local distributor, our sales office, or service center.
ERROR 6558 NCU SENSOR LV LOW	The NCU sensor sensitivity is falling.	Replacement of the NCU is recommended. Contact your local distributor, our sales office, or service center.

Message	Cause	Solution
ERROR 702 THERMISTOR CONNECT	The thermistor connection of a heater is defective.	 Check the thermistor connection of the drying heater. Turn off the main power to the machine and turn it on after a while. When displaying again, contact your local distributor, our sales office, or service center.
ERROR 710 HEATER TEMP ERROR	The temperature abnormality of the heater has been detected. When this error occurred and if the temperature abnormality cannot be resolved, the power supply of the machine is forcibly turned off.	Turn off the main power to the machine and turn it on after a while. When displaying again, contact your local distributor, our sales office, or service center.
ERROR 901 INVAILD OPERATION	Due to a certain error, the function cannot be performed.	Return to the local screen, check the error status and take a countermeasure.
ERROR 902 DATA REMAIN	There remains received data that has not yet been printed.	• Execute the data clear function. (P.2-27)
ERROR 90d NO HEAD SELECT	An error occurred in the mounted heads.	Turn off the main power to the machine and turn it on after a while. When displaying again, contact your local distributor, our sales office, or service center.
ERROR 90f PRINT AREA SHORT	The media width or the media length required for printing is not enough.	 Change the media to the one with enough width or length. When the media width narrows because the origin moved, slide the origin to the right to widen the effective media width.
ERROR 04 PARAM ROM	An error occurred in the main PCB FROM.	Turn off the main power to the machine and turn it on after a while. When displaying again, contact your local distributor, our sales office, or service center.
ERROR C10 COMMAND	Received the code other than the command date.	Check the USB cable connection. Use the USB cable that complies with the specifications. Use the MIMAKI driver that matches
ERROR C11 PARAMETER	Received the parameters outside the value range.	the device. • Turn off the printer, wait for a while, and turn on the printer again. When displaying again,
ERROR C12 DEVICE	Received the invalid device control command.	contact your local distributor, our sales office, or service center.
ERROR C31 NO DATA	You have performed "Copy", but the data is not stored in the reception buffer.	Execute Copy function using the same data one more time.
ERROR C32 DATAtooBIG	The received data is too big to multiple sheet cutting.	The received data is too big to cut it in pieces.
ERROR C33 SHEET SIZE	The feeding direction of the sheet is too short.	Use a longer sheet.

Message	Cause	Solution
ERROR C36 MARKdetect	Could not detect the registration marks.	Check whether the registration marks are placed appropriately. (P-4-2) Make sure that the media is not curled. Make sure that the position to start detecting the registration marks is correct. Make sure that black registration marks are printed on a white base. Make sure that there are no printed images or smudges between registration marks and that there is no dust adhered. Make sure that the registration mark detection settings are correct. If the registration marks still cannot be detected, even after clearing the check items above, contact your local distributor, our sales office, or service center. If the area around registration marks are colored, set the "MARK FILL UP" of the registration mark detection settings to ON.
ERROR C37 MARK ORG	The registration mark detection result shows that the origin position was detected outside the print range.	Place the registration marks within the sheet.
ERROR C38 MARK SCALE	Could not detect the registration marks	Check whether the registration marks are placed appropriately. (P-4-2) Make sure that the media is not curled. Make sure that the position to start detecting the registration marks is correct. Make sure that black registration marks are printed on a white base. Make sure that there are no printed images or smudges between registration marks and that there is no dust adhered. Make sure that the registration mark detection settings are correct. If the registration marks still cannot be detected, even after clearing the check items above, contact your local distributor, our sales office, or service center. If the area around registration marks are colored, set the "MARK FILL UP" of the registration mark detection settings to ON.
ERROR C60 PenEncoder	Could not detect the pen height.	Turn off the printer, wait for a while, and turn on the printer again. When displaying again, contact your local distributor, our sales office, or service center.
ERROR C61 Pen Stroke	The pen height is not correct.	 Make sure that the pen line rubber is not worn out extremely, or it has not come off or changed form. Make sure that there is nothing adhered to the pen line rubber. After putting the pen in the commercially available pen holder, check that it is installed at the correct position. If an error is still displayed even after clearing the check items above, contact your local distributor, our sales office, or service center.

SYSTEM HALT

Message	Solution
SYSTEM HALT (*) 000 : MESSAGE	Turn off the main power to the machine and turn it on after a while. When displaying again, check the number and contact your local distributor, our sales office, or service center. ("000" is the error No.)
SYSTEM HALT (*) 406 : WIPER ORG	 Perform cleaning around the wiper. Turn off the main power to the machine and turn it on after a while. When displaying again, check the number and contact your local distributor, our sales office, or service center.

Chapter 7 Appendix



This chapter

contains the lists of the specifications and functions of this machine.

Specifications	7-2
Printer Section Specifications	
Cutter Section Specifications	7-2
Common Specifications	
Ink specifications	7-5
Setting orders depending on ink type	
Sheet for inquiry	

Specifications

Printer Section Specifications

ltem		CJV300-130 BS INK MODEL	CJV300-160 BS INK MODEL
Print head Drop-on-demand piezoelectr		Drop-on-demand piezoelectric print heads	3
Fillitileau	Specification	2 head staggered	
Printing mode (so	can x feed)	360×360dpi/ 540×360dpi/ 540×720dpi/ 72	0×1080dpi/ 720×1440dpi/ 1440x1440dpi
Usable inks		BS ink :4 colors (Y,M,C,K)	
Ink supply		Supplying from ink cartridges through tube Supplying by Toggle switch over with 2 ca	9 , ,,
Capacity of ink ca	artridge	M, C, Y, K, Lm, Lc, Or, Lk : 440cc cartridge W, Si : 220cc cartridge	
Usable media		label stock (paper-based) / PVC sheet (inc 0.25 mm) / Reflective sheet (excluding hig transfer rubber sheet	•
Margin	Leaf media	Left end and right end : 15 mm (Default) (Left end and right end : 0.6 in (Default)	
Margin	Roll media	Left end and right end : 15 mm (Default) (Left end and right end : 0.6 in (Default)	
Head height adjustment		Select for manual 3-stage (2.0/2.5/3.0) + 1 height can be raised. (Select for manual 3-stage (2.0/2.5/3.0) + height can be raised.)	
Waste ink tank		Bottle type (2,000 cc)	
Interface		USB 2.0 (Ethernet 10 BASE/ 100 BASE E-mail function)	
Command		MRL- IV	

Cutter Section Specifications

Item		Specifications
Maximum speed *1		30cm/s (118.1 in/s)
Maximum acceleration	on	1G
Cutting pressure		10 to 450g (0.02 to 0.1 lb)
Usable tools		Eccentric cutter/ water-based ballpoint pen/ oil-based ballpoint pen/ Ballpoint pen for handwriting (sold on the market) *2
Number of times the to a medium	cutter responds	10 times/sec
Usable media		Polyvinyl chloride sheet (Thickness of 0.25mm or less with laminate *3)/ fluorescent sheet *4/ reflecting sheet *4(excluding high-intensity reflecting sheets)/ Label card (paper-based)/ Heat transfer rubber sheet Polyvinyl chloride sheet (Thickness of 0.01 in or less with laminate *5)/ fluorescent sheet *6/ reflecting sheet *4(excluding high-intensity reflecting sheets)/ Label card (paper-based)/ Heat transfer rubber sheet
Margin	Leaf media	Left and right: 15mm (default value), Minimum: 5mm (0.2 in) Front:135 mm Rear: 150 mm (Front:5.3 in Rear: 5.9 in)
Margin Roll media		Left and right: 15mm (default value), Minimum: 5mm (0.2 in) Front:135 mm Rear: 150 mm (Front:5.3 in Rear: 5.9 in)
Repetition accuracy *7		±0.2 mm or the ±0.1% of the specified distance, whichever is larger. (±0.008 in or the ±0.1% of the specified distance, whichever is larger.)
Reception buffer memory		256 MB
Command		MGL-II c2
Program step		25μm

^{*1.} The maximum speed may be limited, depending on the size of a used medium. In addition, the cutting section does not operate with both speed and acceleration being at the maximum.

^{*2.} Use one with a diameter of 8 to 9 Φ whose clamped part has no protrusion or taper. In addition, because the position of the pen point changes, depending on the types of pens, no good image quality can be ensured.

- *3. This conforms with our specified sheet.
- *4. When a blade dedicated for fluorescent sheets (SPB-0007) or a blade dedicated for reflecting sheets (SPB-0006) is used.
- *5. This conforms with our specified sheet.
- *6. When a blade dedicated for fluorescent sheets (SPB-0007) or a blade dedicated for reflecting sheets (SPB-0006) is used.
- * 7. For repetition accuracy, see the lower part of this page.

Common Specifications

Max. printing/ cutting width 136 tmm (53.6 in) 1610mm (83.4 in) Ray Maximum 1371mm (54.0 in) 1620mm (63.8 in) Minimum 210mm (83.in) Thickness 1.0mm or less (0.04in or less) 1.0mm or less (0.04in or less) Roll Unstide diameter 1 Other media: ±2010mm or less (69.8 in or less) 2 or 3 inches Roll weight 11, 12 2 or 3 inches 2 or 3 inches Printing surface 306 de acing outward Printing surface Roll end treatment 318 reni (64.0 in) 1620mm (63.8 in) Maximum 210 mm 1520mm (63.8 in) Minimum 210mm	Item		CJV300-130 BS INK MODEL	CJV300-160 BS INK MODEL	
Minimum	Max. printing/ cutting width		1361mm (53.6 in)	1610mm (63.4 in)	
Thickness		Maximum	1371mm (54.0 in)	1620mm (63.8 in)	
Roll Media size Roll outside All outsi		Minimum	210mm (8.3 in)		
Roll Media size According to the media: 0210mm or less (08.3 in or less)		Thickness	1.0mm or less (0.04in or less)	1.0mm or less (0.04in or less)	
Roll weight "1-2" 40kg or less (88.2 lb or less)	Dall Madia sina				
Printing surface Roll end treatment The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.	Roll Media size	Roll weight *1, *2	40kg or less (88.2 lb or less)		
Roll end treatment The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.		Roll inside diameter	2 or 3 inches		
Roll end treatment easy removal.		Printing surface	Side facing outward		
Minimum Absolute accuracy Minimum Absolute accuracy Whichever the larger one of ± 0.3 mm or ± 0.3 % of the designated (Whichever the larger one of ± 0.0 mm or ± 0.1 % of the designated (Whichever the larger one of ± 0.0 mm or ± 0.1 % of the designated (Whichever the larger one of ± 0.0 mm or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated (Whichever the larger one of ± 0.008 in or 10.1 % of the designated (Whichever the larger one of ± 0.008 in or 10.1 % of the designated (Whichever the larger one of ± 0.008 in or 10.1 % of the designated (Whichever the larger one of ± 0.008 in or 10.1 % of the designated (Whichever the larger one of ± 0.008 in or 10.1 % of the designated (Whichever the larger one of ± 0.008 in or 10.1 % of the designated (where the larger one of ± 0.008 in or 10.1 % of the designated (where the larger one of ± 0.008 in or 10.1 % of the designated (where t		Roll end treatment		h weak-adhesive tape or weak glue for	
Minimum	Loof modic oizo	Maximum	1371mm (54.0 in)	1620mm (63.8 in)	
Distance accuracy Reproducibility Whichever the larger one of ± 0.01 in or ± 0.3 % of the designated Whichever the larger one of ± 0.01 m or ± 0.1 % of the designated Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.3 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.01 in or ± 0.1 % of the designated Whichever the larger one of ± 0.00 in or ± 0.1 % of the designated Whichever the larger one of ± 0.008 in or ± 0.1 % of the designated Whichever the larger one of ± 0.000 in or ± 0.1 % of the designated Whichever the larger one of ± 0.000 in or ± 0.1 % of the designated Whichever the larger one of ± 0.000 in or 0.2 in or 0.000 in or ± 0.2 in or 0.2 in or 0.000 in or ± 0.2 in or 0.2 in or 0.000 in or ± 0.2 in or 0.2 in or ± 0.1 % of the designated Whichever the larger one of ± 0.000 in or 0.000 in o	Leai media size	Minimum	210mm		
Reproducibility (Whichever the larger one of ± 0.008in or ± 0.1 % of the designated)	Distance accu-	Absolute accuracy		<u> </u>	
Media skew 5 mm or less / 10 m (0.2 in or less / 32.8 ft) Cutting of media Cutting of Y direction by the head cutter. Cutting accuracy (steps): 0.5 mm or less. Media delivery Take-up device supplied as a standard accessory (switching possible between face in and face out). Interface USB 2.0 (Ethernet 10 BASE/ 100 BASE E-mail function) Less than 58 dB (A) (FAST-A, Front & Rear & Left & Right 1 m) during continuous printing Less than 65 dB (A) during continuous printing Less than 65 dB (A) CVCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC, Low Voltage Directive) across printing Single-phase (AC100 - 120V 1440W or less / 220 - 240V 1920W or less) x2 ±10% 50/60Hz ± 1Hz Power Power consumptor 1440W x2 (AC 100 - 120V) ar less Power consumptor 1440W x2 (AC 100 - 120V) or less Power consumptor 1440W x2 (AC 100 - 120V) or less Power consumptor 1440W x2 (AC 100 - 120V) or less Power consumptor 1440W x2 (AC 100 - 120V) or less Power consumptor <th cols<="" td=""><td>racy</td><td>Reproducibility</td><td></td><td></td></th>	<td>racy</td> <td>Reproducibility</td> <td></td> <td></td>	racy	Reproducibility		
Cutting of Y direction by the head cutter. Cutting accuracy (steps): 0.5 mm or less. Media delivery Take-up device supplied as a standard accessory (switching possible between face in and face out). Interface USB 2.0 (Ethernet 10 BASE/ 100 BASE E-mail function) USB 2.0 (Ethernet 10 BASE/ 100 BASE E-mail function) during standby Less than 58 dB (A) (FAST-A, Front & Rear & Left & Right 1 m) during continuous printing Less than 65 dB (A) during discontinuous printing Less than 75 dB (A) *3 VCCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC, Low Voltage Directive, Machinery Directive, RoHS Directive), CB Report, RoHS Power S0/60+12 ± 1Hz Power consumptor 1440W x2 (AC 100 - 120V 1440W or less / 220 - 240V 1920W or less) x2 ±10% 50/60+12 ± 1Hz Power consumptor 1440W x2 (AC 100 - 120V) or less Humidity 35 to 65% Rh (No condensation) Guaranteed temp. 20 °C to 25 °C (88 °F to 77 °F) Temperature change ± 10 °C / h or less (± 50 °F / h or less) Dust Equivalent to normal office level Highest operation height 2000 m (6561.7 ft) <th< td=""><td>Perpendicularity</td><td></td><td>± 0.5 mm / 1000 mm (± 0.02 in / 39.4 in)</td><td></td></th<>	Perpendicularity		± 0.5 mm / 1000 mm (± 0.02 in / 39.4 in)		
Media delivery Take-up device supplied as a standard accessory (switching possible between face in and face out). Interface USB 2.0 (Ethernet 10 BASE/ 100 BASE E-mail function) Moise during standby Less than 58 dB (A) (FAST-A, Front & Rear & Left & Right 1 m) Moise Uses than 58 dB (A) (FAST-A, Front & Rear & Left & Right 1 m) during discontinuous printing Less than 75 dB (A) *3 VCCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC,Low Voltage Directive, Machinery Directive, RoHS Directive), CB Report, RoHS Power Single-phase (AC100 - 120V 1440W or less / 220 - 240V 1920W or less) x2 ±10% 50/60Hz ± 1Hz Power consumption 1440W x2 (AC 100 - 120V) or less Available temp. 20 °C to 30 °C (68 °F to 86 °F) Humidity 35 to 65% Rh (No condensation) Guaranteed temp. 20 °C to 25 °C (68 °F to 77 °F) Temperature change ± 10 °C / h or less (± 50 °F / h or less) Dust Equivalent to normal office level Highest operation height 178 kg (392.4 lb) <td colsp<="" td=""><td>Media skew</td><td></td><td>5 mm or less / 10 m (0.2 in or less / 32.8</td><td>ft)</td></td>	<td>Media skew</td> <td></td> <td>5 mm or less / 10 m (0.2 in or less / 32.8</td> <td>ft)</td>	Media skew		5 mm or less / 10 m (0.2 in or less / 32.8	ft)
Interface	Cutting of media		Cutting of Y direction by the head cutter. Cutting accuracy (steps): 0.5 mm or less.		
Noise Dust Dust Dust Equivalent to normal office level	Media delivery		· · · · · · · · · · · · · · · · · · ·		
Noise During continuous printing Less than 65 dB (A)	Interface		USB 2.0 (Ethernet 10 BASE/ 100 BASE E-mail function)		
Noise printing during discontinuous printing Less than 75 dB (A) *3 Cafety Standard VCCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC,Low Voltage Directive, RoHS Directive), CB Report, RoHS Power Single-phase (AC100 - 120V 1440W or less / 220 - 240V 1920W or less) x2 ±10% 50/60Hz ± 1Hz Power consumption 1440W x2 (AC 100 - 120V) or less Available temp. 20 °C to 30 °C (68 °F to 86 °F) Humidity 35 to 65% Rh (No condensation) Guaranteed temp. 20 °C to 25 °C (68 °F to 77 °F) Temperature change ± 10 °C / h or less (± 50 °F / h or less) Dust Equivalent to normal office level Highest operation height 2000 m (6561.7 ft) Weight 170 kg (374.8 lb) 178 kg (392.4 lb) Outside dimensions Depth 700mm (27.6 in)	during standby		Less than 58 dB (A) (FAST-A, Front & Rear & Left & Right 1 m)		
Safety Standard	Noise	_	Less than 65 dB (A)		
Temperature change Dust Equivalent to normal office level			Less than 75 dB (A) *3		
Power consumption	Safety Standard				
Available temp. 20 °C to 30 °C (68 °F to 86 °F)	Power				
Humidity 35 to 65% Rh (No condensation)	Power consumption 1440W x2 (AC 100 - 120V) or less				
Guaranteed temp. 20 °C to 25 °C (68 °F to 77 °F)		Available temp.	20 °C to 30 °C (68 °F to 86 °F)		
Recomended Environment Temperature change ± 10 °C / h or less (± 50 °F / h or less) Dust Equivalent to normal office level Highest operation height 2000 m (6561.7 ft) Weight 170 kg (374.8 lb) 178 kg (392.4 lb) Outside dimensions Width 2525mm (99.4 in) 2775mm (109.2 in) Depth 700mm (27.6 in)		Humidity	35 to 65% Rh (No condensation)		
Environment		Guaranteed temp.	20 °C to 25 °C (68 °F to 77 °F)		
Highest operation height 2000 m (6561.7 ft) Weight 170 kg (374.8 lb) 178 kg (392.4 lb) Outside dimensions Width 2525mm (99.4 in) 2775mm (109.2 in) Depth 700mm (27.6 in)			± 10 °C / h or less (± 50 °F / h or less)		
Neight 2000 m (6561.7 ft)		Dust	Equivalent to normal office level		
Outside dimensions Width 2525mm (99.4 in) 2775mm (109.2 in) Depth 700mm (27.6 in)			2000 m (6561.7 ft)		
Outside dimensions Depth 700mm (27.6 in)	Weight 170 kg (374.8 lb) 178 kg (392.4 lb)		178 kg (392.4 lb)		
dimensions Depth 700mm (27.6 in)	0 1-11-	Width	2525mm (99.4 in)	2775mm (109.2 in)	
	I Denth		700mm (27.6 in)		
		Height	1392 mm (54.8 in)		

^{*1.} It is outside diameter and weight after take-up media.
*2. Without deflection of the roll when it is retained at both ends.

Chapter 7 Appendix

*3. 74.7dB(A), Operating Condition: Full Load (at clamp switching) Measuring Method: According to clause 1.7.4.2 of Machinery Directive 2006/42/EC

Ink specifications

Ite	n	BS3/ BS4 ink
Supply		Dedicated sublimation dye ink cartridge
Color		Black ink cartridge Cyan ink cartridge Magenta ink cartridge Yellow ink cartridge
Ink capacity		600cc per cartridge
Shelf life		The period is printed on the ink cartridge. Within three months after opening the package even in the available period.
Storage tem- perature	Storage	10 to 35°C (Average daily temperature) (50 to 95°F (Average daily temperature)) Be sure to keep a vessel in the airtight condition. Be sure to keep a vessel in a dry, well-ventilated, cool and dark location.
	Transporta- tion	0 to 40°C (32 to 104°F) Avoid the condition lower than -0 °C and higher than 40 °C (104 °F).

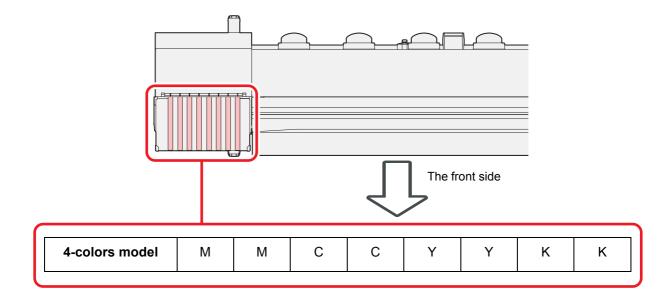


- Do not disassemble ink cartridges and do not refill them with ink.
 Ink could freeze if kept in a cold place for an extended period.
 When aqueous ink is used, if the ink freezes, the quality is changed and the ink becomes unusable. Store the ink in an environment that will not freeze the ink.

Setting orders depending on ink type



• Set the ink cartridge according to the cartridge label under the ink station.



Sheet for inquiry

Use this sheet for troubles and abnormal functions of the machine. Fill in the following necessary items, and fax the sheet to our sales office.

Company name	
Person in charge	
Telephone number	
machine model	
Operating OS	
Machine information *1	
Error message	
Contents of inquiry	

^{*1.} Refer to "Confirming Machine information" of "Convenient using" then fill in necessary information. (P.3-27)

CJV300-130/160 BS INK MODEL Operation Manual

November, 2018

MIMAKI ENGINEERING CO.,LTD.

2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

