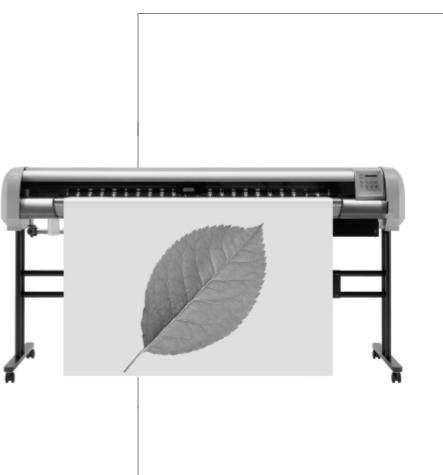
MUTOH

RJ600EX-A-01

USER GUIDE

Full Color Inkjet Printer **FALCON** Graphics **RJ-6000 Series Basic Edition**



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USER GUIDE RJ-6000 Series

Full-Color Inkjet Printer Basic Edition

Mutoh Industries Ltd.

1-3 Ikejiri 3-chome Setagaya-ku, Tokyo 154-8560 Japan

RJ-6000 Series USER GUIDE Basic Edition

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Types and Usage of User Guide

This product is supplied with the following three types of User Guide:

Basic Edition

This manual which you now have open is the Basic edition of the User Guide. It contains information on installation, preparation, direct key menu operations from online printing, daily maintenance, specifications, lists of options and supplies, etc. Please be sure to read it as it contains matters essential for the normal use of the printer.

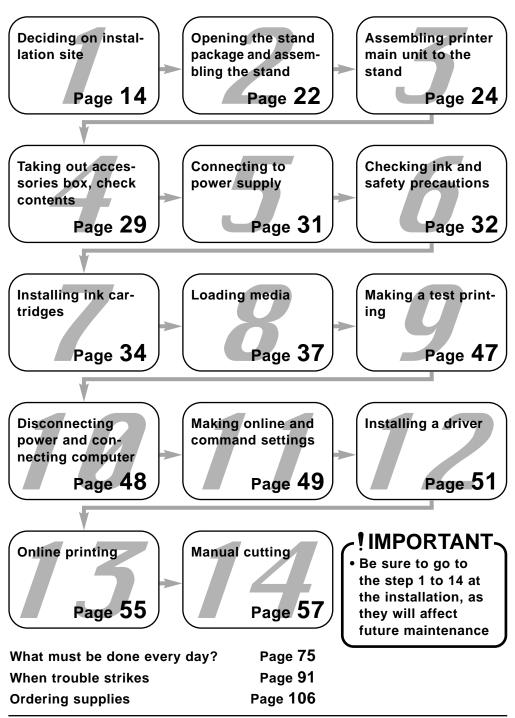
Functions Edition

This manual explains about the printer's functions. Information essential for using this printer, such as how to use the functions and operations, is explained in detail. It is easy to look up "what does this function do to the printing?" The fitting of options and error messages are also included in detail for you to read essential items as required.

-Drivers Edition-

You may need to install drivers for output from computer. The Drivers Manual explains about installation and settings to suit your computer operating system. Please read it when you are installing drivers.

From Unpacking to Printing On-line



This equipment complies with radio interference regulations for data processing devices. When used in a residential area, this equipment may cause radio interference, in which case the user may be required to take appropriate corrective measures.

#Concerning radio interference

This product generates weak radio signals and may interfere with radio and television reception if not installed and used correctly. If you suspect that it is causing interference with radio and television reception, try one or more of the following measures:

- Change the direction of your reception antennae and feeders
- Change the direction of this product
- Change the distance between your receiver and this product
- Use separate power supply circuits for your receiver and this product

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September 2000

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Introduction

Thank you for purchasing a RJ-6000 Series Full-color Inkjet Printer.

This RJ-6000 Series is a 43-inch (1092 mm) wide, 54-inch (1372 mm) wide or 62-inch (1575 mm) wide, full-color inkjet printer equipped with 720 dpi / 360 dpi and simulated 1440 dpi resolution, that supports Centronics (bidirectional parallel interface, IEEE1284 compatible, with Nibble and ECP modes) and, optionally, Ethernet interfaces.

This User Guide deals with printer installation and operation methods as well as usage precautions. In order to use the printer safely and effectively, please read the User Guide carefully before you use the printer and then use it correctly.

Keep the manual beside the printer. It is sure to be useful in case something that you are not sure about should occur while you are using the printer.

-!IMPORTANT

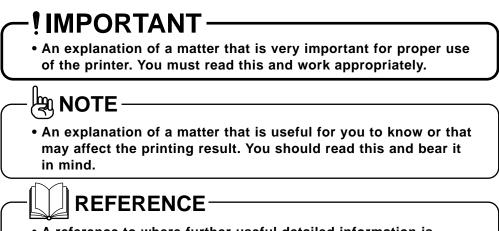
• Because the RJ-6000 Series is an inkjet printer, it needs to be cleaned and inspected periodically. User registration and a service contract are recommended for detecting trouble promptly and maintaining printing quality in top condition. For details, contact your local Mutoh dealer.

For Safe Usage

Introducing the safety symbol that is used in this manual.

The following warning indicator is used in this manual to prevent injury to the user and damage to property.

• Applies to a case where ignoring this instruction or incorrect action may lead to serious injury and may cause physical damage to the printer. You must read this and work correctly. Introducing the Note and Reference symbols that are used in this manual.



• A reference to where further useful detailed information is available. Refer to this if necessary.

Using the Printer

RJ-6000 Series is a precision device. When you use it, be careful of the following.

- Don't use the printer in extreme heat, cold or humidity.
- Covers secured by screws must not be opened other than parts noted in this manual.
- Don't have a radio or television nearby as the printer may cause interference.
- Don't connect the printer cable to the same power source as an appliance that generates electrical noise.
- This printer uses 100 to 120 V, or 200 to 240 V AC power. Don't use it with power other than 100 to 120 V, or 200 to 240 V AC.
- Be sure to use a power source with an earth connection.
- Avoid placing objects on top of the printer or subjecting it to severe vibration or impact.
- Don't tilt or shake the printer when you move it. This may cause the ink to spill or the mechanism to malfunction. If tilting is unavoidable, contact your local Mutoh dealer.
- Don't wipe the printer with thinners or benzene.
- Be sure to use RJ-6000 Series special cartridges (the printer will be damaged if an ink other than a special cartridge is used.)
- If the printer makes a strange noise or acts abnormally, refer to "When trouble strikes" on page 91 and contact your local Mutoh dealer.
- There is no question about the safety of the ink but since it is mildly toxic it should be kept out of the reach of children.

- Ink cartridges should be kept in a cool dark place. However, the ink will freeze if it is stored for a long period below -10°C for black ink and below -10°C for colored ink so storage under these conditions should be avoided. If the ink becomes frozen, it should be thawed for at least three hours at room temperature (25°C) before use.
- Don't put the hold lever in the up position while the head is moving (during printing, media size detection, media cutting and cleaning, etc.). The head and media keeper blade will touch, causing damage or faulty printing.
- When the hold lever is to be put in the up position for loading media, etc., make sure that the head is in a position where it will not touch the media keeper blade.
- Don't move the head while the hold lever is up. The head may touch the media keeper blade.

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Before Using the Printer

This section lists matters that must be attended to before the printer is used.

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RJ-6000 Series USER GUIDE Basic Edition

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Usage Environment

An appropriate location for installing the printer should be selected after referring to the following conditions for the installation site and installation space.

- Always use a separate, earthed power outlet.
- Avoid places subject to sudden change of temperature or humidity, dust, or the direct rays of the sun.
- The RJ-6000 Series printer should not be in the direct draft from an air conditioner.
- Don't block the ventilation holes of the RJ-6000 Series printer.
- The floor should be level and free from vibration.
- Avoid places near a device that produces heat, such as a stove or heater.
- Avoid using the printer under strong light globes or halogen lamps.

Environmental Conditions for the Installation Site

We recommend setting up the printer in a place that conforms to the conditions in the following table.

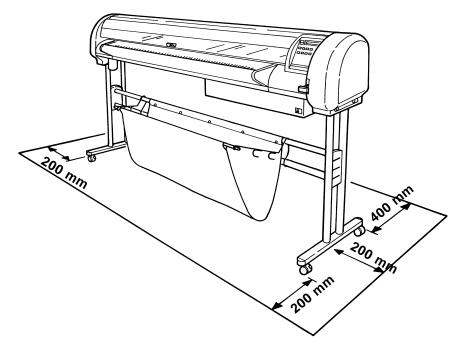
With regard to temperature and humidity in particular, even if the conditions fall within the ranges indicated, places subject to sudden changes should be avoided.

We recommend setting up in a place that can be air conditioned in order to maintain constant temperature and humidity.

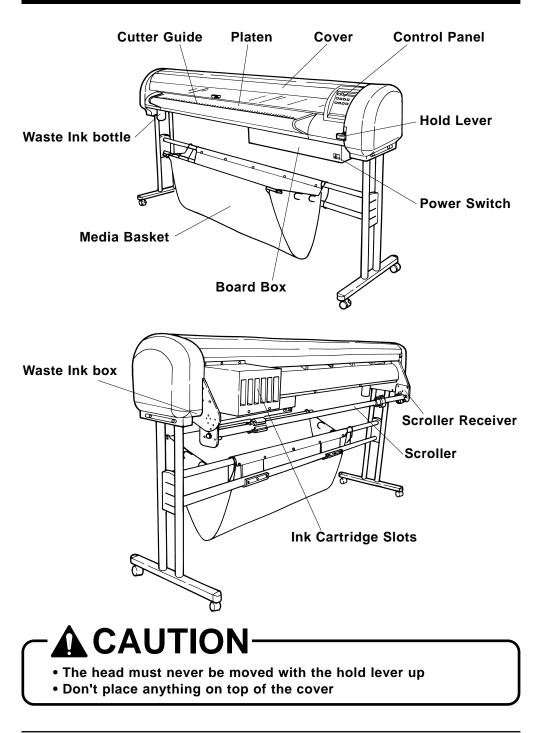
Area for Installation		At least 3 m ² with a doorway of 1.5 m				
Floor Strength		At least 2490 Pa (300 kg/m ²)				
Power Supply Voltage		100 V to 120 V AC 10% or				
		200 V to 240 V AC 10%				
	Frequency	50/60 Hz 1%				
	Capacity	Use a power outlet rated for at least 10 A				
Temperature		10°C to 35°C (16°C to 25°C for assured				
		printing accuracy)				
		Variation rate: Not more than 2°C per hour)				
Humidity		35% to 80% (50% to 60% for assured				
		printing accuracy) with no condensation				
		Variation rate: Not more than 5°C per hour)				

Space Required for Installation

The space required for setting up is as shown below.



Names of Parts



Control Panel Names

tions and making settings for various functions. ERROR LED (Red) Shift key **CLEANING key** DATA LED (Green) **MENU** key - 1 DATA Receive Process 1 Menu Up A ERROR Menu Down 7 Back CANCEL CLEANING MENU Shift + Function **Boll Media Cut** Erase Output Erase Data Cancel Print 08 Erase Data Test Setup RESOLUTION MEDIA MEDIA WEIGHT QUALITY / SPEEDow High VALUE ENTER VALUE + CANCEL key QUALITY / SPEED key **MEDIA key** Roll Media LED (Green) High Quality LED (Green) Normal LED (Green) Sheet Media LED (Green) High Speed LED (Green) **MEDIA WEIGHT key RESOLUTION key** Standard LED (Orange) Low LED (Green) Thin LED (Green) High LED (Green)

The control panel is for setting operating conditions, displaying printer condi-

Control Panel Names

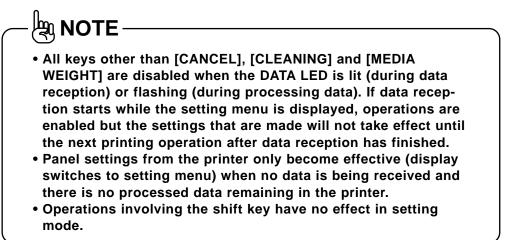
Name	Function
DATA LED (Green)	Lit: Data reception in progress
	Flashing: Data reception completed, processing
	in progress or internal data preparation
	in progress
ERROR LED (Red)	Lit or flashing: An error has occurred
CANCEL key	Before data reception: Roll media is cut
-	During data reception: Input data is erased
	During data processing: Processed data is erased
	During printing: Printing is forcibly stopped,
	the data is erased and media
	is ejected
	Waiting for ink to dry: Ink drying time is can-
	celled and media is
	ejected
MEDIA WEIGHT key	Selects the type of media
Standard LED (Orange)	Lit: Standard media type is specified
IIII	
Thin LED (Green)	Lit: Thin media type is specified
-	
-	
QUALITY / SPEED key	Changes print mode to high quality, normal or
	high speed
High Quality (Green)	Lit: High quality print mode is established
\Leftrightarrow	
Normal (Green)	Lit: Normal print mode is established
	p
$\overline{\Lambda}$	
High Speed (Green)	Lit: High speed print mode is established
mode	
*	
RESOLUTION key	Switches head resolution when printing
Low	Lit: 360 dpi resolution is established
High	Lit: 720 dpi resolution is established
Simulated 1440 dpi	When both 360 dpi and 720 dpi are lit simuta-
	neously, simulated 1440 dpi mode is estab- lished
	เอเเตน

Name	Function
MEDIA key	Switches between roll media and cut media
Roll media (Green)	Lit: Indicates that the loaded media is roll media
Sheet media (Green)	Lit: Indicates that the loaded media is cut media
CLEANING key	Directs head cleaning
	(press for at least 2 seconds)
MENU key	Moves to menu screen for function setting mode When the menu display key is pressed, the panel keys take on the purplish-red set of functions. Normal (purplish-blue) functions are not resumed until setting mode is cancelled with the previous level key or enter key.
Menu Up ▲ key	In setting mode, returns liquid crystal display menu by one page at a time
Menu Down ▼ key	In setting mode, advances liquid crystal display menu by one page at a time
VALUE + key	In setting mode, moves the menu or parameter on the liquid crystal display forward one by one If a numerical parameter value is entered, the parameter value is incremented
VALUE - key	In setting mode, moves the menu or parameter on the liquid crystal display back one by one If a numerical parameter value is entered, the parameter value is decremented
Back ◀ ◀ key	Shifts the set menu level back
ENTER 🚽 key	Confirms a menu change or parameter value
Shift key	Changes the function of each key to the light- blue set
Shift key	Feeds media in the normal direction
+ Media Feed key	
Shift key	Prints the color palette
+ Palette Print key	Reserves palette printing if no media is loaded

Control Panel Names

Name	Function
Shift key + Test Print key	Reserves test printing if no media is loaded
Test	
Shift key	Reserves setup printing if no media is loaded
+ Setup print key	
Setup	
Shift key	Makes fine adjustment and shifts to key entry
+Fine adjustment key	screen
→■ ←	

* Shift + means "while the [Shift] key is pressed"



Preparing for Printing

This section deals with preparations for using the printer.

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Open the Box

The printer is delivered in two boxes containing the main unit (including accessories) and the stand. First, open the stand carton.

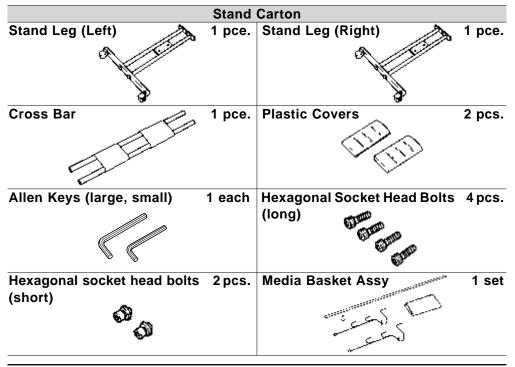
Open the stand carton and take out the stand parts.

After opening the cartons, quickly move the packaging materials (cartons, vinyl bags, foam styrene, etc.) out of the reach of children or dispose of them appropriately.

After unpacking, check that all necessary parts are present.

• If any of the cartons is missing, contact your Mutoh dealer.

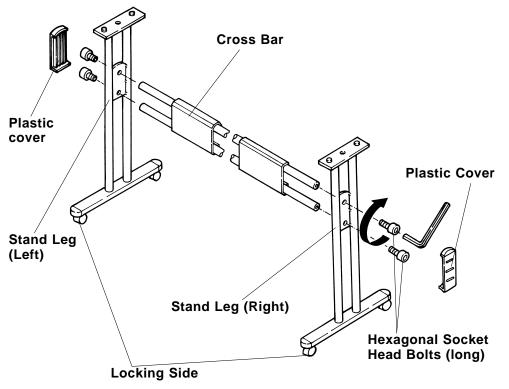
Check the stand carton



Assembling the Stand

Step 1

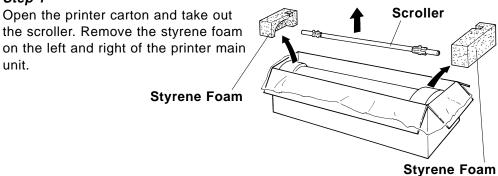
With the welded parts of the stand leg (left and right) that fasten the cross bar facing out, align the attaching holes of the cross bar and fasten them temporarily with hexagonal socket head bolts (long). After the hexagonal socket head bolts have been re-tightened, fit the plastic covers over them.



Assembling the Printer

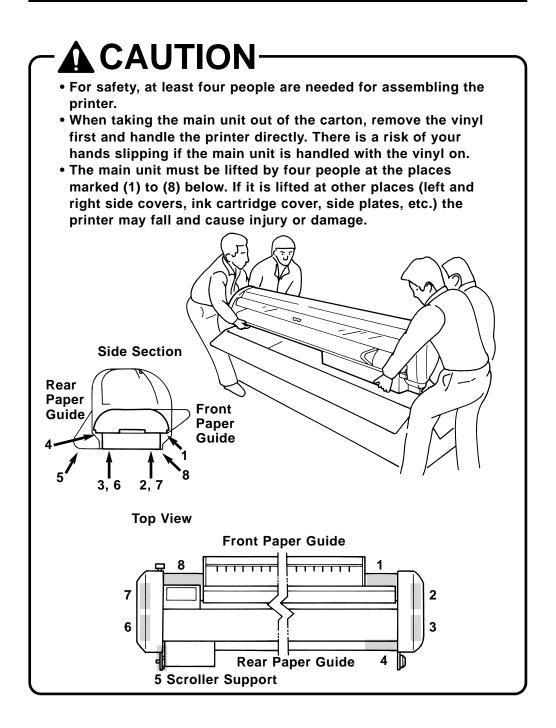
The printer carton contains the main unit, scroller, and a box of accessories. The warranty document and customer registration postcard are attached to the carton itself. Store the warranty document securely, fill in the details on the customer registration and and mail it.

Step 1



Step 2

Bring the stand close to the printer carton and lock the castors. Roll up the vinyl wrapping on the printer.



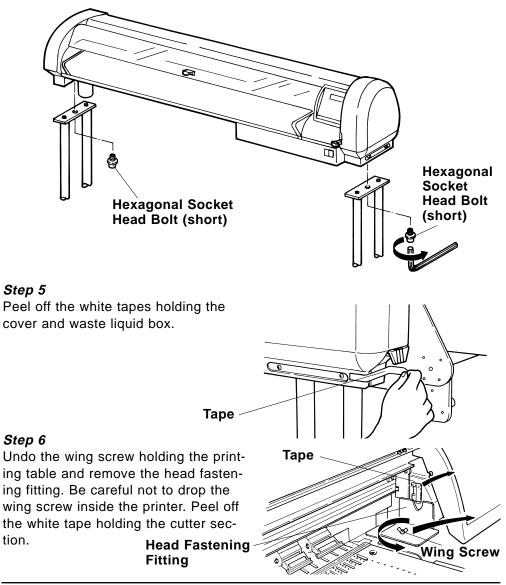
Assembling the Printer

Step 3

Place the main unit on the stand with the front towards the locking castors on the stand.

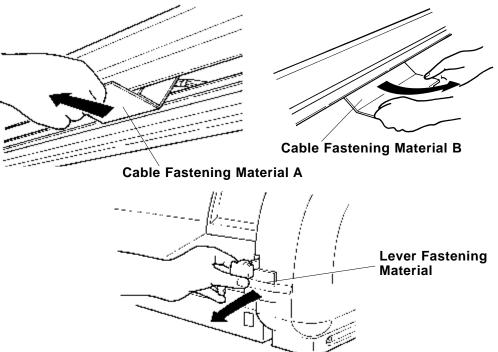
Step 4

Fasten the main unit to the stand using hexagonal socket head bolts (short) through the holes on both sides of the stand.



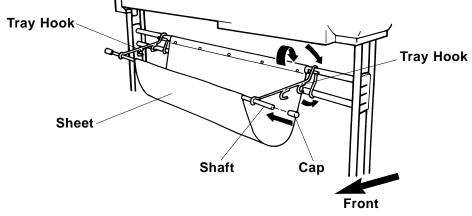
Step 7

Remove cable fastening materials A and B between the rail and cover. Remove the lever fastening material that holds the lever.

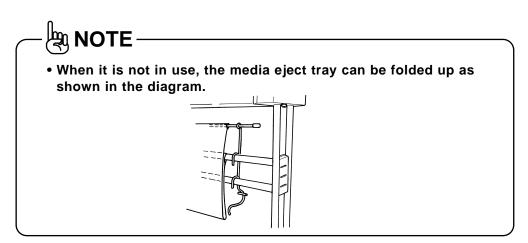


Step 8

Thread the tray hook, sheet, tray hook in that order over the media ejection basket shaft and replace the cap. Hook the tray hooks over the side stays. Wrap the sheet over the upper side stay and fasten it on the outside with hooks.

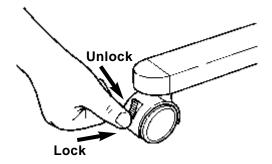


Assembling the Printer



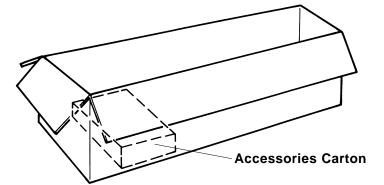
Step 9

When the assembly of the main unit is completed, move the printer to the place where it is to be used and set it up on a firm floor. Lock the castors.

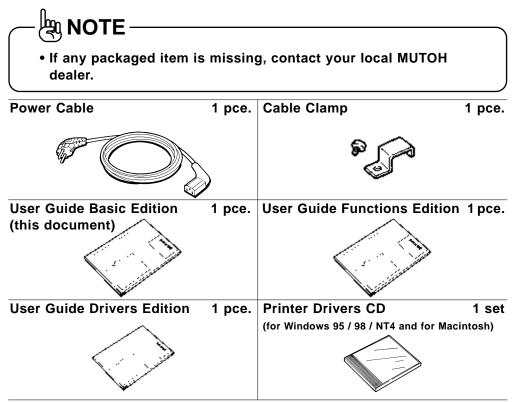


Check Printer Accessories

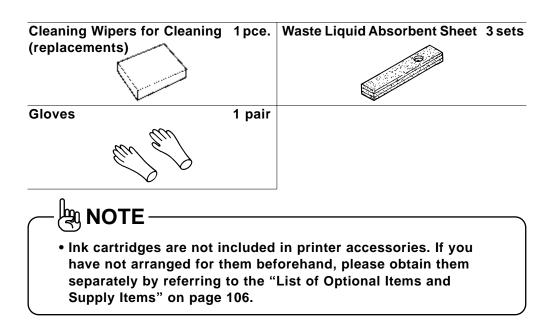
Printer accessories are contained in the accessories carton in the bottom of the printer carton.



Open the accessories carton and check that nothing is missing.



Check Printer Accessories



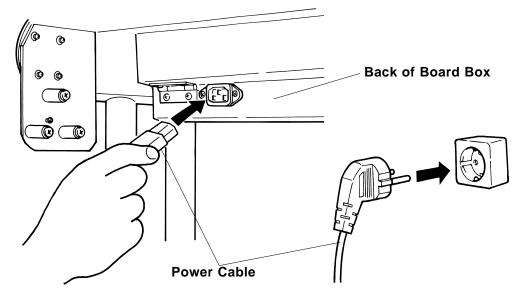
Connecting the Power Cable

- Use a power supply that is separate from devices that produce electrical noise.
- Don't have multiple connections on the power cord. These will cause heating and fire. Take power directly from a household power outlet.
- An earth lead must be used.

• Value settings will be recorded after the power switch has been turned off. Wait for about 5 seconds before switching on again.

Plug the power cable into the power socket on the left side at the back of the printer and insert the power plug into a power outlet that matches the following power supply specifications.

Power Supply	/ Specifications
Voltage	100 to 120 V AC ±10%, 200 to 240 V AC ±10%
Frequency	50/60 Hz ±1 Hz
Capacity	Use a power outlet rated for at least 10 A

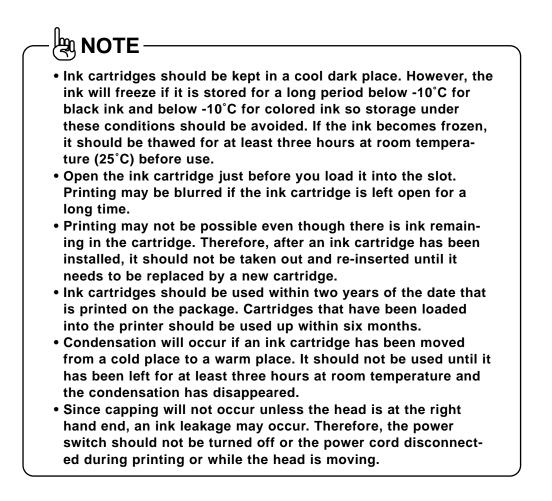


Ink Cartridge Precautions

- Although there is no question about the safety of the ink, it should not be touched, licked or swallowed. If you accidentally touch the ink, wash it off immediately with soap and water. If it should get into your eye, wash with plenty of water and consult your doctor. If it is licked, wash it out immediately by gargling with water. If it has been swallowed, drink plenty of water immediately and you must see a doctor.
- For the reasons given above, ink cartridges should be kept out of reach of children as it would be dangerous for them to be licked or swallowed.
- The ink in ink cartridges burns easily so direct contact with heat or flame should be avoided.
- Ink cartridges may leak so they should not be shaken roughly or dismantled. If the ink leaks, wipe it up with a sponge and discard it in a sealed container.
- Ink cartridges should be discarded in accordance with local government regulations.

!IMPORTANT-

- When a RJ-6000 Series printer is to be used for the first time, all four colored ink cartridges must be loaded into the slots at the rear of the printer.
- Don't remove the seals attached to the ink cartridges.
- A malfunction will be caused if a seal becomes dirty, so the dirty place must be wiped clean.
- Only genuine ink cartridges can be used. They also need to be turned in the proper direction for insertion. Make sure not to confuse the direction and place for insertion.



Loading the Ink Cartridges

Step 1

With the hold lever down, turn on the power switch at the bottom right of the printer.

Step 2

The printer is initalized and, because no ink cartridges are loaded, the following display appears.

Cartridge None



• Initialization will not occur if the cover is open or the hold lever is up.

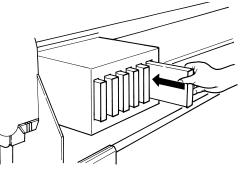
Step 3

Go to the back of the printer and insert ink cartridges of each color into the ink cartridge slots that you can see on the left end.

Type 1	Lc	Lm	Y	Μ	С	κ
Type 2	G	0	Y	Μ	С	K

* Lc and G are shown "6".

Lm and O are shown "5".



If the print result is reversed between Lc and Lm, change the Data Order setup or RIP driver setup.

Step 4

The following display appears and the ink filling operation starts automatically. Ink filling means that the head is filled with ink and is ready for printing.

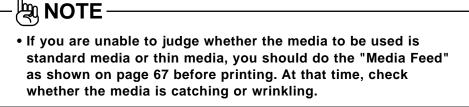
• Filling will not occur unless four of the same type ink cartridges are installed.

• Power must not be switched off during the ink filling operation otherwise the printer may be damaged.

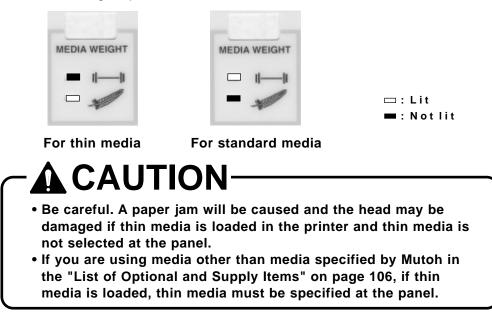
- If the "Cartridge None" display on the Control panel does not disappear even though ink cartridges have been installed, it means that the ink cartridges have not been loaded correctly. Take out the cartridge whose color is displayed and reload it correctly.
- If the initial ink filling fails, clean the head several times. If the initial filling is not done even after several head cleanings, contact your local Mutoh dealer.

Specify the Type of Media

Here we select whether the media to be loaded in the RJ-6000 Series printer will be standard media or thin media.



With the hold lever up, press the **[MEDIA WEIGHT]** key. If the media to be loaded is standard media, light up standard media. If the media to be loaded is thin media, light up thin media.



Loading the Media

-!IMPORTANT-

- Don't use media that is creased, blemished, torn or curled.
- Problems caused by using media other than that specified by Mutoh will not be covered by warranty. Always use cut media or roll media specified by Mutoh (See the "List of Optional and Supply Items" on page 106)
- Temperature and humidity suitable for printing are shown below. We recommend setting up in an environment that can be air conditioned in order to maintain constant temperature and humidity.

Temperature	10°C to 35°C (16°C to 25°C for assured printing
	accuracy)
	Variation rate: Not more than 2°C per hour
Humidity	35% to 80% (50% to 60% for assured printing
	accuracy) with no condensation
	Variation rate: Not more than 5% per hour

- The absolute dimensions of printing media will be changed by variations in temperature and humidity. Therefore, printing media such as tracing media and high quality media that are readily susceptible to the effects of environmental changes should be acclimatized to the environment for about 30 minutes before printing. This acclimatization is called seasoning. Inadequate seasoning may cause the printing media to slip, crease or jam. It also affects the printing quality.
- With media recommended by Mutoh, you should be aware that a 1% variation in humidity may cause the media to expand or contract by the proportions shown below.

Type of Media	Rate of Dimensional Change
Good quality media	0.018%
Double-matte polyester film	0.0012%

- Oil from your skin may interfere with the way the ink sits on the media so you should wash your hands thoroughly before handling the media.
- If media that is larger than the prescribed size is used, the result of the printing may be affected by the media touching the floor during printing.
- Don't leave media loaded in the printer for a long period. This may cause the media to curl, lift up or jam. (This should be avoided especially in winter, dry periods and for formal printed output.)
- Media has a printing surface and non-printing surface. Printing on the non-printing surface may cause blurring or blemishes.

Loading Cut Media

Step 1

Open the cover, check that head is in a position where it will not touch the media keeper blade and put the hold lever up.

Step 2 Selecting media

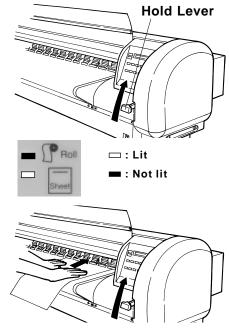
Press the **[MEDIA]** key on the Control panel to light the Sheet media LED.

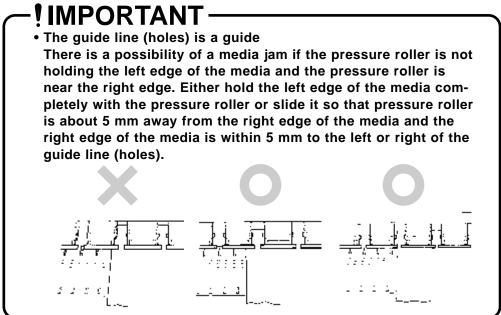
Step 3 Loading media

Insert seasoned media between the pressure roller and the drive roller.

Step 4

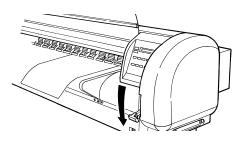
Align the right edge of the media with the middle of the guide line (holes).





Step 5

Put the hold lever down.



NOTE-

- Remove the roll media and scroller from the main unit before using.
- Don't load the media slantwise. The media size may be misidentified and the printing will not be normal.
- If the roll media lamp is lit by the Control panel setting, a "Roll media end" error may appear and printing will not terminate normally or the media may be cut.
- Apart from the maximum size that may be loaded, cut media can be loaded either longitudinally or laterally.
- Media has a printing surface and non-printing surface. Printing on the non-printing surface may cause blurring or blemishes. The printing surface is usually lighter.

Step 6

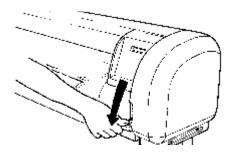
Close the cover. The head will move automatically to detect the size of the media.

Step 7 Removing the media

To remove the media, open the cover and put the hold lever up, then remove the media without touching the media keeper blade.



Plot OK

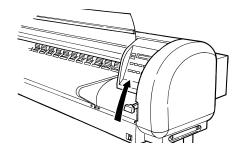


- Don't put the hold lever up while the head is moving (during printing, media detection, media cutting, cleaning, etc.)
- When putting the hold lever up to load media, etc., make sure the head is in the stand-by position (maintenance position). The lever can not be put up if the head is not in the stand-by position.
- Don't move the head while the hold lever is up. The head may contact the media keeper blade.

Loading Roll Media

Step 1

Open the cover, check that head is in a position where it will not touch the media keeper blade and put the hold lever up.



🗆 : Lit

: Not lit

Step 2 Selecting media type

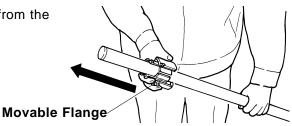
Press the **[MEDIA]** key on the Control panel to light the Roll media LED.

Step 3

Take out a roll of media.

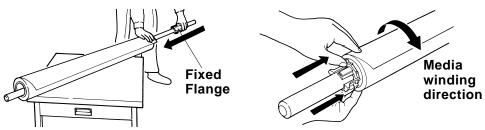
Step 4

Remove the movable flange from the scroller.



Step 5 Loading roll media on the scroller

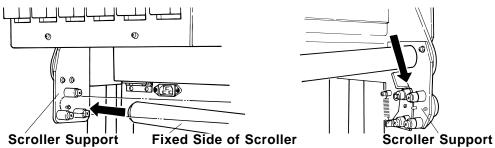
Turn the roll media as shown in the diagram and pass it over the scroller until the media tube fits firmly over the fixed flange. Replace the movable flange on the scroller and fit it firmly into the media tube.



• Roll media generally comes with externally wound specifications in which the front surface of the media is on the outside, or internally wound specifications in which the front surface of the media is on the inside. Roll media specified by Mutoh is wound to external specifications in order to give effect to the printing. Please use media specified by Mutoh.

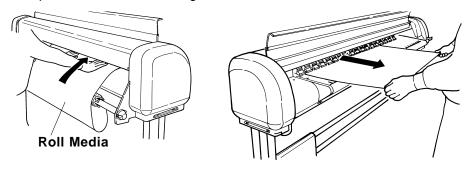
Step 6 Mounting the scroller on the printer

Attach the scroller, with roll media loaded, to the scroller receiver. Hold the fixed flange side with your left hand, insert the left side into the scroller support from the inside and press the right side from above.



Step 7

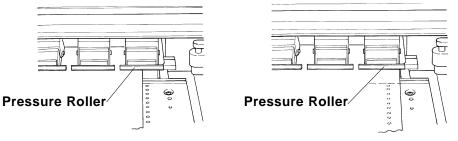
Remove the tape from the roll media and unroll a length of roll media. From the rear, insert the end of the roll media between the pressure roller and the drive roller, being careful that the end of the roll media does not catch on the media keeper blade, and let it hang down at the front.



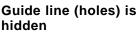
• When inserting roll media from the rear, be careful not to be injured by the pressure unit.

Step 8 Checking the position of the roll media

Turn the scroller by hand and wind up several turns of roll media. As you wind up the media, check the relative positions of the drive roller on the right and the right hand edge of the roll media. It is normal if, with the roll media pulled tight, the portion that is being wound and the portion that was unwound are straight and the right hand edge of the media is on the guide line. If this is not so, adjust the position of the roll media in accordance with step 9.



Guide line (holes) can be seen

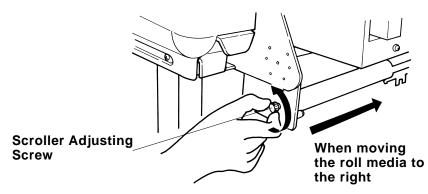


Step 9 Adjusting roll media position

If the guide line (holes) can be seen, the roll media must be moved to the right.

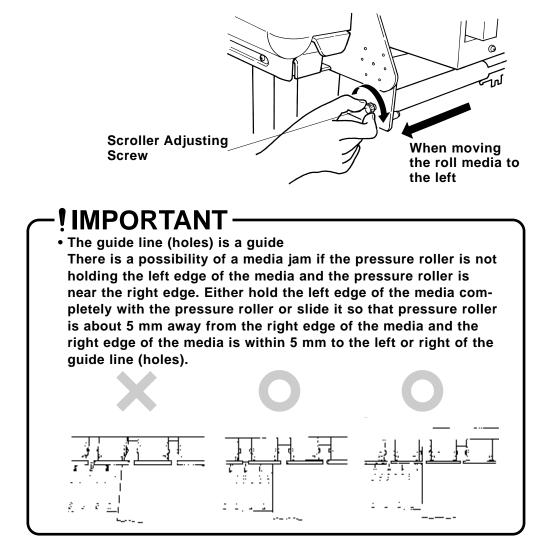
If the guide line (holes) are hidden, the roll media must be moved to the left. *If the roll media must be moved to the right

Turn the scroller adjusting screw at the rear left side of the printer to the left



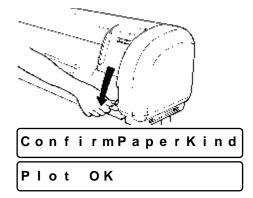
* If the roll media must be moved to the left

Turn the scroller adjusting screw at the rear left side of the printer to the right



Step 10

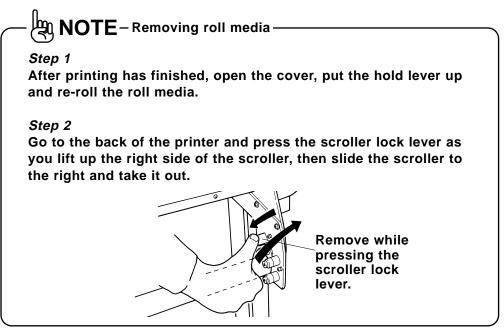
If the right edge of the roll media is near the guide line (holes), put the hold lever down. At this time, check and bear in mind where the edge of the roll media is in relation to the guide line. Close the cover. The head will move automatically to detect the size of the media.

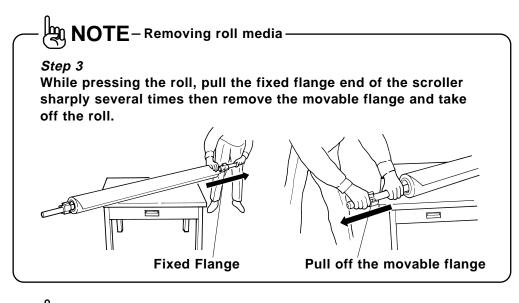


Step 11

During media detection, the roll media will return parallel to the guide line. Check again the position of the right edge of the roll media after media detection. If it is almost over the same line as the position of the edge of the media that was checked before the cover was closed, then the media setting is a success.

If the position of the edge of the media after media detection is offset from the position of the edge of the media before closing the cover, then repeat the loading of the media from step 8.





by NOTE

- Don't put the hold lever up while the head is moving (during printing, media detection, media cutting, cleaning, etc.) otherwise the head will touch the media keeper blade and cause damage and bad printing.
- When putting the hold lever up to load media, etc., make sure the head is in the stand-by position (maintenance position). The lever can not be put up if the head is not in the stand-by position.
- Don't move the head while the hold lever is up. The head may contact the media keeper blade.

Making a Test Print

Make a test print to verify that the printer is working properly.

Step 1

Open the cover and check that the hold lever is up.

Step 2

Press the [MEDIA] key to light the Sheet media LED. (Cut media is selected)

Step 3

Load an A3 size sheet of cut media and put the hold lever down.

Step 4

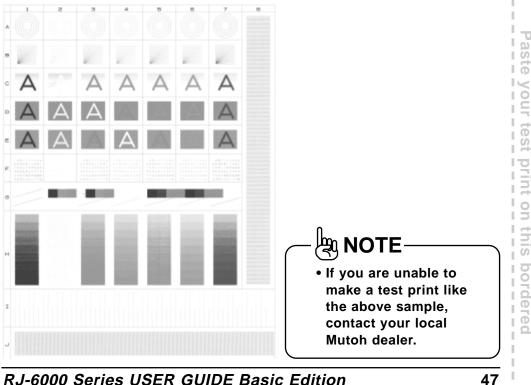
After initialization has finished, press the [Test Print] key (RESOLUTION, VALUE key) while you are pressing the [shift] key. (Test print: pale blue)

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Plot

Printing

Test print sample (paste your test print on this page)



RJ-6000 Series USER GUIDE Basic Edition

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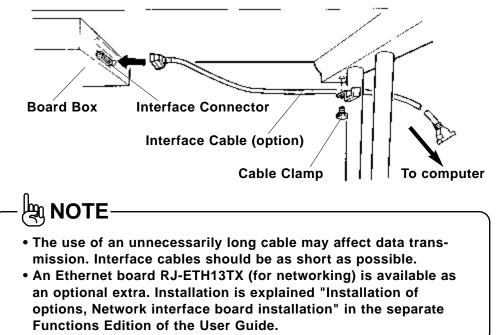
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Connecting the Interface Cable

A CAUTION • Make sure the power to the printer and to the computer is switched off when you connect the printer and computer. • NOTE • For optimum output, please use a cable recommended by Mutoh. If some other cable is to be used, select one by referring to "Centronics (Bi-directional Parallel Interface: IEEE1284 compatible) Specifications" on page 103.

The printer can use the Centronics interface (IEEE1284 compatible, Nibble, ECP). Connect to the printer as shown in the following diagram with an interface cable (option) for the connection system you will use. Connect to the host computer with another interface cable.



To Receive Data from the Computer

First, prepare the printer to receive data from the computer. The conditions for connecting the printer and computer must be aligned beforehand on the printer side and on the computer side. This is called set-up.

The basic printer set-up for receiving data from a computer involves the following four types of settings.

Command Settings	Specifies the type of online com- mands
Setting the Position to Start Writing	Selects the position (initial position) to begin writing after the printing media has been mounted
Centronics Settings	Settings related to the Centronics interface (IEEE1284 compatible, Nibble, ECP)
Network Settings	Specified if an optional network inter- face (Ethernet) is to be used.

Input Port

Input port means the type of interface port. RJ-6000 Series input ports are set as follows.

Input Port	Type of Interface
Port 1	Centronics (IEEE1284 compatible, Nibble, ECP)
Port 2	Option board (empty)

Online Set-up

There are two types of online-related settings: Centronics settings with respect to the computer and Centronics connection, and network settings with respect to the computer and network connection.

Settings at the time of shipping by Mutoh			
Centronics Settings Network Settings (option: em			
Mode	Bitronics	IP address 192.034.043.015	
Timing	AB system	IF address 192.034.043.015	

To Receive Data from the Computer Command Set-up (User Settings)

NOTE-

• If values other than those set at the time of shipping from Mutoh are used, be sure to refer to "Centronics Settings" or "Network Settings" in the separate Functions Edition of the User Guide.

Command Set-up (User Settings)

Each user will specify the online commands from the computer and the command conditions.

Commands

The type of command for verification is the MH-GL system (MH-GL/GL2, MH-GL2, RTL-PASS).

MH-GL system commands (emulation of Hewlett-Packard printer commands)

Settings at the time of shipping by Mutoh

Command	Item
Initial position	P1
Terminator	Normal
Resolution	360 dpi

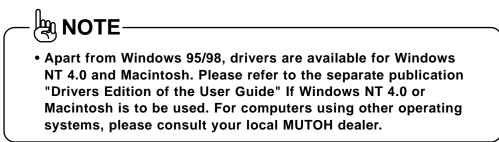
NOTE-

• If values other than those set at the time of shipping from Mutoh are used, be sure to refer to "Command Settings" in the separate Functions Edition of the User Guide.

Installing Printer driver

A printer driver serves as a bridge (a software connection) for sending data from a computer to a printer. By installing a printer driver, the computer can know for the first time the printer to which it is connected.

Here we explain only the case of using Windows 95/98 as a standard computer.



Operating Conditions

Operating System	Windows 95/98	
CPU	i486SX or higher (Pentium 120 MHz or better	
	recommended)	
RAM	32 MB or more (at least 48 MB recommended)	
Hard Disk Space	100 MB of unused disk space	



- Memory requirements will differ according to your application software and type of printing data.
- When printing (printing), the driver uses the hard disk for working and requires (empty) space for in a temporary device (under a TEMP directory) controlled by the system.
- We recommend the use of as the largest possible memory and hard disk capacity.

Installation Procedure

Step 1 Starting the computer

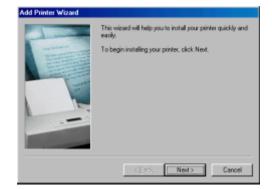
Make sure the printer and computer are connected and switch on the power to the printer. Then switch on the computer.

Step 2 Installing the driver

Make sure that computer starts normally then insert the CD-ROM labeled "MUTOH PRINTER SOFTWARE" in the CD-ROM drive of the computer.

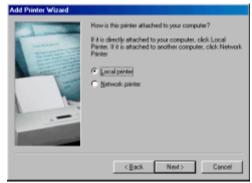
Step 3

Double click "Add Printer" under "Printers" in My Computer. When the Add Printer window appears, click [Next >].



Step 4

In response to "How is the printer attached to your computer?", select "Local printer" or "Network printer" and click [Next >].



Step 6

In the "Copy manufacturer's files from" space, enter the CD-ROM name and specify folder (in this case "\ENGLISH\ RJ-6000") and click [OK].

- * Enter the name of your CD-ROM drive instead of X:.
- * Folder names \ENGLISH signifies the English version, \95 is for Windows 95(98) and \RJ-6000 is the name of the printer.

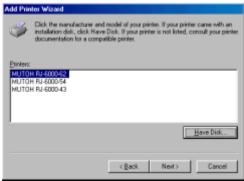
Step 7

From "MUTOH RJ-6000 Series", select Add Printer Wizard the model you are using and click [Next >].

Agfa --Apple AST AT&T AGFA-AccuSet 1000SF v2013.108 AGFA AccuSet 1000SF v52.3 AGEA-ArcuSet 1500 ABFA-AccuSet 1500SF v2013.108 Brother Bull C-Itab AGFA AccuSet 800 ASEA-AnnuSet BODSE v2013 108 1 Have Dick. < Back Next> Cancel

Add Printer Wizard

Manufacturers:



Click the manufacturer and recold of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your print documentation for a compatible printer.





Step 5

In response to "Click the manufacturer and model of your printer", click [Have Disk...].

Installing Printer Driver Installation Procedure

Step 8

Under "Click the port you want to use with this printer", select the port to which the printer is actually connected and click [Next >].



Step 9

After specifying "Printer name" and "Do you want your Windows-based programs to use this printer as the default printer?" click [Next >].

Add Printer Wizard	
	You can type a name for this printer, or you can use fire name supplied below. When you have finished, click Next.
	Einter name: MUTOH RESOURS
	Do you want your Windows-based programs to use this printer as the default printer?
-	C Yes C No
	<back next=""> Cancel</back>

Step 10

In response to "Would you like to print a test page?" select "Yes (recommended)" or "No" and then click [Finish].

Add Pinter Wizad	After your printer is installed, Windows can print a test page so you can confirm that the printer is set up properly. Would you like to print a test page? <u>West (seconsmended)</u> <u>No</u>
	< Back Finish Cancel

If you selected "Yes (recommended)" a dialog box will appear after the test printing asking "Was the test page printed correctly?". Click "Yes". This completes the installation of the driver.

Try Printing Online (for Windows 95/98)

Since the computer recognizes the printer when the printer driver is selected, try online printing.

Step 1

Make sure that the computer and printer have the same communication conditions. (Refer to "Command Setting, Function Settings, Centronics Settings, Network Settings and Utilities Settings" in the Functions Edition.)

Step 2

Open the cover, check that the head is in a position where it will not touch the media keeper blade and put the hold lever up.

Step 3

Select the type of media. Press the **[MEDIA]** key and light the Sheet media LED.

Step 4

Load the printer with a cut sheet of the size you wish to output.

Step 5

Start the computer application.

Step 6

Open a simple drawing or create a new one with the application.

Step 7

Click the "File" menu from the application, then click "Print" to print the drawing.

Step 8

Check that the printer has printed the drawing.

• If all settings were not correct, it may not have been possible to print as you expected. In any case, you will verify that online printing is possible.

Printing the Setup List

In online printing was possible, try printing the Setup List.

Step 1

1

1 - 1

Open the cover and make the hold lever is up.

Step 2

Press the [MEDIA] key and light the Sheet media LED.

Step 3

Load an A4 size sheet vertically.

Step 4

Select the printing of setup List by pressing the **[Setup Print]** key (MEDIA, ENTER key) while you are pressing the **[Shift]** key.

Step 5

The setup sheet is printed.

-!IMPORTANT

• Since this setting detail sheet will be needed for future maintenance and repair, paste the completed print on this page.

Sample Print of Setup List

Setup List	
Density = 360dpi PROM = V	J-6Color !Error! 1.03 0:None [] 3:None [] 1.00 1:None [] 4:None []
Command = RTL-PASS PositionOffset Plot Area = Normal X = Omm Position = P1 Y = Omm Terminate = Normal Resolution = 360dpi OnlineTimer = 90sec Overwrite = Last Centro Mode = Bi Centro Timing = A-B	Function InkDryTime = 30sec Dist,Adj Halftone = Speed DataX = 1000.00 CMY->BLACK = Yes RealX = 1000.00 Scale = 100.0% Mirror = Off Direct. = Command CutPos. = Data MediaCut = Auto Copy = 1 InkDensity = Normal
Network IP Address = 192, 034, 043, 015	Utility ErrorDisplay = Off

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Printing

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Preparing for Printing

Making a Manual Cut

-!IMPORTANT-

• Cloth must be cut manually (refer to "Function Settings: Media Cut" of the Functions Edition.)

This function is used for manually cutting roll media (such as cloth) that can not be cut automatically after it has been printed.

Step 1 Specifying manual cutting

Refer to "Function settings: Media cut" on page 49 of the Functions Edition and specify manual cutting.

Step 2

Preparations for printing (load media, online settings, etc.) must be made beforehand.

Cutter Guide

Print any image or picture.

Step 3

When the printer has finished printing, the media will be fed out to the position for manual cutting.

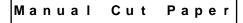
Step 4

Use a cutter to cut the media along the cutter guide.



Press the **[ENTER]** key on the control panel

57



manual

MediaCut:

Direct Access Keys

In this section we explain about direct access key operations that are often used to enable printer functions to be used effectively.

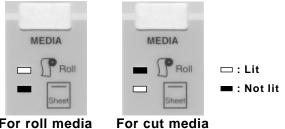
Specifying the Media to be used	PAGE 60
Specifying the Resolution	PAGE 61
High Quality Printing, Normal Printing, High Speed Printing	PAGE 62
Head Cleaning	PAGE 63
Cutting the Media	PAGE 64
Making a Palette Print	PAGE 65
Making a Test Print and a Setup List Print	PAGE 66
Media Feed	PAGE 67
Fine Adjustment of Print Quality	PAGE 68

Specifying the Media to be Used



Here we select whether we will use roll media or cut media as the media to be loaded in the RJ-6000 Series printer.

Immediately before loading media in the printer, press the [MEDIA] key. If roll media is to be specified, light the Roll media LED. If cut media is to be specified, light the Sheet media LED.



For roll media

IMPORTANT

• If roll media is loaded while cut media is selected on the panel, the media will be fed out in order to detect the end of the sheet. Always make sure that the type of media specified on the panel matches the media that is loaded.



 Ink drying times differ according to the type of media. 30 seconds is specified for RJ-6000 Series printers when shipped by Mutoh but this needs to be specified to correspond to the media. The ink drying time specifies the period from the end of printing until the media is fed out (and roll media is cut) in order to allow the ink to dry. For more detail, please refer to "Function settings: Ink Dry Time" in the separate Functions Edition of the User Guide.

Specifying the Resolution



The resolution of the RJ-6000 Series at the time of output can be selected as 360 dpi, 720 dpi or simulated 1440 dpi (RTL-PASS). 720 dpi or simulated 1440 dpi gives high grade printing at near photo quality.

Specify resolution at the time of graphic data output.

When the Low LED is lit, 360 dpi is selected. When the High LED is lit, 720 dpi is selected. When both the Low and High LEDs are lit, simulated 1440 dpi is selected.

Press the **[RESOLUTION]** key. If the current resolution setting is 360 dpi, then the High LED will be lit and the setting will change to 720 dpi. If the current resolution setting is 720 dpi, then the Low LED and the High LED will be lit and the setting will change to simulated 1440 dpi. If the current resolution setting is simulated 1440 dpi, then the Low LED will be lit and the setting will change to 360 dpi.

RESOLUTION	RESOLUTION	RESOLUTION	□ : Lit ■ : Not lit
Resolution For 360 dpi	Resolution For 720 dpi	Resolution For simulated 1440 c	lpi
 • High quality printing is obtained at high resolutions of 720 dpi and simulated 1440 dpi but the printing time is longer than at 360 dpi. • If high resolution image data such as 720 dpi or 600 dpi is printed at 360 dpi, it may not be possible to obtain adequate printing results. 			

High Quality Printing, Normal Printing, High Speed Printing



According to the printing environment to be used, three speeds can be specified for a RJ-6000 Series printer.

In changing them, you should consider the resolution and printing time required for the printing.

By changing the printing mode, printing may be high quality, normal or high speed.

* High Quality Printing Mode:	The high quality lamp is lit. The printing is better than normal printing mode but the printing speed is slower.
* Normal Printing Mode:	This is the ordinary printing mode. The normal printing mode lamp is lit.
* High Speed Printing Mode:	Printing speed has priority. The high speed lamp is lit. Use it for check printing.

When the printing mode is altered, the LED of the selected mode lights up.

Step 1

Press the **[QUALITY / SPEED]** key once or twice until LED for the desired printing mode is lit.

Step 2

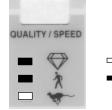
When the printing mode changes, the LED of the selected mode changes to lit.



For high quality mode



For normal mode



□ : Lit ■ : Not lit

For high speed mode

CLEANING

Head Cleaning

Head cleaning is a function that cleans the head face and nozzles. Head cleaning should be carried out if the printing is more faint or lacking in detail compared with the previous printing.

-!IMPORTANT -

- When printing for a long period under dusty conditions, dust collects in the maintenance section and inspection and maintenance may be required.
- A paper jam or paper rubbing on the head must be investigated.

Step 1

With no paper loaded and the lever down, press and hold the **[CLEANING]** key for at least two seconds.

Step 2

Head cleaning proceeds.

- Powerful head cleaning will be implemented if the [CLEANING] key is pressed after two pages or less have been output since the last head cleaning operation was performed (or since power was switched on if there has been no head cleaning since power was switched on). (However, if the cover is opened during cleaning, the cleaning will be normal cleaning.) Powerful cleaning should be done if there is severe faintness or lack of detail. After three or more pages, normal cleaning will be carried out.
- If several cleaning do not eliminate the faintness or lack of detail, refer to "When trouble strikes" and carry out the measures and then contact your local Mutoh dealer.
- Make sure the hold lever is down before pressing the [CLEAN-ING] key.
- Head cleaning can also be done with media loaded. However, if the media is too wrinkled it may touch the head so we recommend that head cleaning be done with the media removed.

Cutting the Media

• When a new roll of media is mounted, the leading edge of the media may not be straight. In this case, the leading edge of the media should be cut.

The **[CANCEL]** key can be switched between the cancel function and the media cut function, depending to the status of the printer. You should use it in accordance with your need.

Printer Status		Result of Pressing the [CANCEL] key
Before data reception	DATA LED off	Media is fed then cut
During data reception	DATA LED on	Input data is cancelled
During data processing	DATA LED flashing	Processed data is can- celled
During printing	During head movement	Printing is forcibly stopped and the data is cancelled

Use the cut function if you want to cut the leading edge of the roll media. The cut function can be used if roll media is loaded and data is not being received or processed.

Step 1

Make sure that roll media is loaded and data is not being received or processed. (DATA LED is not lit.)

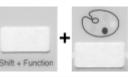
Step 2

Press the [CANCEL] key.

Step 3

Roll media is fed then cut.

Making a Palette Print



Palette printing is used when pen colors are specified with the printer's internal data.

Output the color palette for reference and for comparison and selection of line color output from your CAD system.

Step 1

Load an A3 size sheet of media and put the hold lever down.

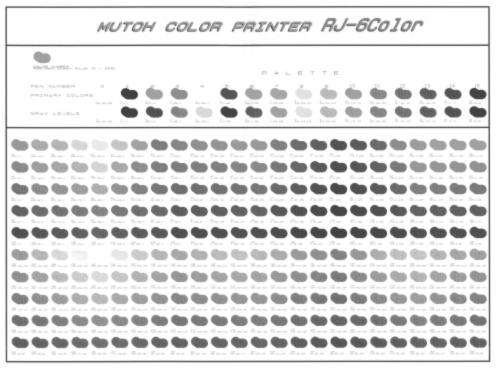
Step 2

Press the **[Palette Print]** key (QUALITY/SPEED, VALUE key) while you are pressing the **[Shift]** key.

Step 3

The palette print is printed automatically.

Sample of the Color Palette Print



Shift + Function

Making a Test Print and a Setup List Print

These are prints of the current status of the printer. Check by printing out the following two types of print.

Test print: This checks whether the printer is fully operational by making a print.

Setup List print: This prints out details such as printer online settings.

• It is useful to keep the Test print and Setup List print in this book in case trouble occurs later. Keep the Test print on page 47 and the Setup List print on page 56.

Step 1

Load an A3 size sheet of media and put the hold lever down.

Step 2

For the test print, press the **[Test Print]** key (RESOLUTION, VALUE key) while you are pressing the **[Shift]** key.

For the Setting details print, press the **[Setup Print]** key (MEDIA, ENTER key) while you are pressing the **[Shift]** key.

Step 3

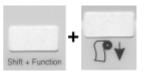
The Test print or Setup List print are output automatically.

Sample of Setup List print

```
Setup List
```

	-				
Panel Plot Mode = Normal Density = 360dpi Roll/Cut = Cut Media = Normal	PROM = V	J-6Color !Errc 1.03 0:Nor 1.00 1:Nor	ir! ie []	3:None [] 4:None []	
Weild - Normal Command = RTL-PASS Plot Area Normal Position = P1 Terminate Normal Resolution = 360dpi OnlineTimer = 90sec Overwrite = Last Centro Mode = Bi Centro Timing = A-B	PositionOffset X = Omm	Functi InkDryTime Halftone	= 30sec = Speed = Yes = 100.0% = Off = Command = Data = Auto = 1	Dist.Adj DataX = RealX =	
Network IP Address = 192.034.04	43.015	Utilit ErrorDispl			

Media Feed



If roll media is being used, the media will be fed in the normal direction while the **[Shift]** key and **[Media Feed]** key are pressed. Roll media will not be fed while data is being received or processed. Media is not fed while cut media is in use.

Step 1

The media feed function can be used only when roll media is loaded and data is not being received.

Step 2

Feed roll media by pressing the **[Media Feed]** key (MENU, Menu Down key) while you are pressing the **[Shift]** key.

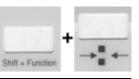
Step 3

Release the **[Shift]** key and **[Media Feed]** key (MENU, Menu Down key) when the roll media has been fed to the desired position.



• If the printing surface of the roll media that is to be used for printing is dirty, press the [Media Feed] key (MENU, Menu Down key) while pressing the [Shift] key to feed the media until the printing surface is clean. Then use the [CANCEL] key to cut off the dirty media.

Fine Adjustment of Print Quality



Although your printer was adjusted for optimum quality at the time of shipment, the printing quality may vary according to the type of media. In such cases, a accracy adjustment plot of printing quality can be made with the following procedure.

IMPORTANT

- Unless you understand this function fully, there is a risk that the fine adjustment may make the quality even worse. Normally, no adjustment should be made.
- You need a sheet of media of A3 size or larger, mounted vertically for the fine adjustment. If a sheet of media smaller than A3 is loaded, it may not be possible to obtain a proper print.

Step 1

With an A3 or larger sheet of media loaded vertically, press the **[Fine Adjustment]** key (CLEANING, Menu Up key) while you are pressing the **[Shift]** key.

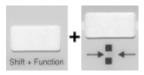
Plot OK

Step 2

The accracy adjustment plot is printed automatically.

Sample Accuracy Adjustment Plot

Accur. Adj Plot



Fine Adjustment of Print Quality

Step 3

Look at pattern A on your print. Use the **[VALUE +]** and **[VALUE -]** keys to enter the number of a line with no offset.

Step 4

Press **[ENTER]** key to confirm the value specified for pattern A.

Step 5

Look at pattern B on your print. Use the **[VALUE +]** and **[VALUE -]** keys to enter the number of a line with no offset.

Step 6

Press **[ENTER]** key to confirm the value specified for pattern B.

Step 7

Look at pattern C on your print. Use the **[VALUE +]** and **[VALUE -]** keys to enter the number of a line with no offset.

Step 8

Press **[ENTER]** key to confirm the value specified for pattern C.

Step 9

Permanent display is restored.

PatternA:

PatternC:

6

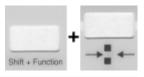
4

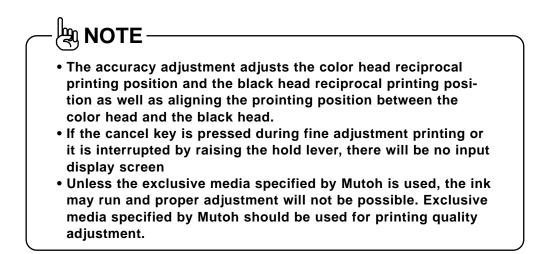
5

4

4

Plot OK





In this section, we give a summary explanation about menus for the practical use of the printer functions.

Menu mode Operation	PAGE 72
Menu Structure	PAGE 74

Menu Mode Operation



Shift to setting mode for practical functions than cannot be set up by direct access keys.

Step 1

Press the **[MENU]** key to shift to setting mode. Direct access key operation does not work.

Menu Command>

Step 2

By pressing the **[MENU]** key, the control panel keys take on the functions shown in purplish-red. Press the Select setting mode by pressing the **[Menu Down]** key or the **[Menu Up]** key.

	> : sub-menu for detailed settings
[Menu Up]	[ENTER]
Menu Command	> to command settings
[Menu Down] ↓ ↑ [Menu Up]	[ENTER]
(*Menu* Function	
[Menu Down] ↓ ↑ [Menu Up]	[ENTER]
Menu Centro	1
[Menu Down] ↓ ↑ [Menu Up]	[ENTER]
Menu Network	1
[Menu Down] ↓ ↑ [Menu Up]	[ENTER]
(*Menu* Utility	1
[Menu Down]	* Reference See Functions Edition of the User Guide for menu setting details

Step 3

- * Press [ENTER] to proceed with the setting
- * The part of the display that is flashing can be altered. To change a setting, select a value by pressing the **[VALUE +]** or **[VALUE -]** keys.
- * The setting will not change unless the **[ENTER]** key is pressed.
- * If the set-up is complete, press the **[Menu Up]** key. If there is no key operation in Menu setting mode for 3 minutes, Direct access key input standby (permanent display) is restored.

Menu Structure

(*Menu* C	ommand>	
Command R	TL-PASS / MH-GL, GL2 / MH-GL2	
Plot Area Normal / Expand		
	1 / (hardclip) LL / Full	
	pecial / Normal	
	00 dpi / 360 dpi / 720 dpi	
	ff / 10 sec to 30 sec to 800 sec	
Overwrite L	ast / Mix	
Menu Fu	nction>	
Ink Dry Time 0	sec to 5 sec to 30 sec to 60 min	
Halftone S	peed / Quality / Thin	
CMY->BLACK N	o / Yes	
	5% to 100% to 400%	
	ff / Y On	
	ommand / MAX-MIN	
	ata / Standard	
	uto / Manual / Off	
	to 99	
	ormal / Thin / Faint	
Dist. Adj. N	o / Clear / Change / Confirm	
* M e n u *	Centro>	
Mode C	entro / Bitro	
Timing A	-B / B-A	
* Menu * N		
wienu N	etwork>	
IP Address 0	00.000.000.000 to 192.034.043.015 to 255.255.255.255	
Menu U	tility>	
Error Display	On / Off	
Initial	OK / No	
Α	I OK / No	
Command OK / No		
Functi. OK / No		
Centro OK / No		
	k OK / No	
Dump	Start-End / All (cancel with [CANCEL] key	
Data Order	5Lc6Lm / 5Lm6Lc	
*This item is effective later than the firmware version 1.04.		
Head Wash Yes / No		
74	B L 6000 Carias LISED CLUDE Pasis Edition	

Daily Maintenance

This section gives details of maintenance that should be done every day (cleaning, ink cartridge replacement, etc.) as well as examples of troubles that might occur and how handle them.

Cleaning the Printer	PAGE 76
Replacing Ink Cartridges	PAGE 79
Switching Inks	PAGE 80
Replacing the Cutter	PAGE 82
Replacing Waste Liquid Absorbent Sheet (Waste Box)	PAGE 84
Replacing Waste Liquid Absorbent Sheet (Waste Ink Bottle)	PAGE 87
Cleaning the Cleaning Wiper	PAGE 89
When Trouble Strikes	PAGE 91

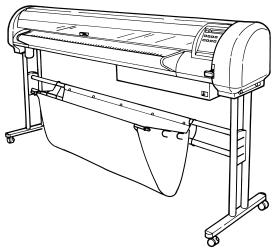
Daily Maintenance

RJ-6000 Series USER GUIDE Basic Edition

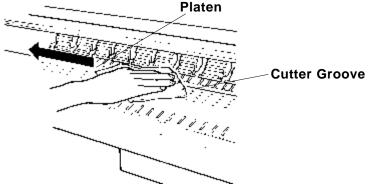
Cleaning the Printer

Wipe the printer with a soft cloth.

- Turn off the power switch when cleaning the printer.
- Don't use thinners or benzene, as these will damage the paint.
- When cleaning, don't open any covers that are fastened by screws as these contain electrical parts.
- Paper dust is produced when the printer is working. This should be wiped off periodically. Don't blow it away.
- For stubborn soiling that resists wiping, use a lint-free cloth moistened with alcohol.



Any scraps of paper clinging to the platen and cutter groove should be wiped off from right to left with a damp cloth.

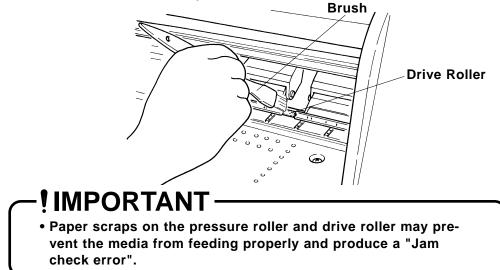


-!IMPORTANT

• Dust and scraps of paper tend to accumulate over time on the platen and cutter groove. This leads to poor quality printing and cutting.

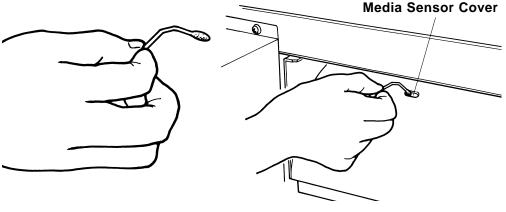
Use a soft damp cloth to wipe away any paper scraps clinging to the pressure roller.

Clean the drive roller with a nylon brush.



Use a cotton swab to clean dust and paper scraps from the cover of the media sensor at the rear.

Bend the swab as shown in the diagram.



-!IMPORTANT-

• Progressive soiling affects the sensitivity of the sensors and may cause media to be detected even when no media is loaded.

Replacing Ink Cartridges

If the RJ-6000 is displaying "No ink" or "No cartridge", the ink cartridge should be replaced or inserted without delay. If "Ink low" is displayed, have a replacement cartridge ready.

Step 1

If "No ink" is displayed in the message display section, from the back, pull out the ink cartridge for the color that is shown to be not printing. For example, if black ink has run out,

pull out the black ink cartridge.

I

K]Cartridge

Step 2

Open the new ink cartridge package.

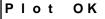
- Only genuine ink cartridges can be used. They also need to be turned in the proper direction for insertion. Make sure not to confuse the direction and place for insertion.
- Open the ink cartridge just before you load it into the slot. Printing may be blurred if the ink cartridge is left open for a long time.
- Ink cartridges should be used within two years of the date that is printed on the package. Cartridges that have been loaded into the printer should be replaced within six months.

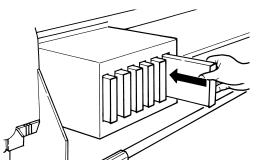
Step 3

Insert the new cartridge in the slot at the back of the printer.

Step 4

Check that the permanent message has been restored in message display section.





Switching Inks

A washing set that is separately sold is required in order to change the type of inks used in the RJ-6000.

Ink switching involves switching light cyan and light magenta for orange and green pigment inks or interchanging pigment inks and dye inks.

Step 1

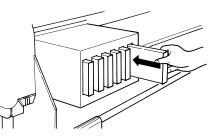
Remove the currently loaded ink cartridges from the back and insert the washing set.

Step 2

Carry out washing by referring to the "Utility Settings: Head Wash" item on page 72 of the Functions Edition of the User Guide.

Step 3

After washing has finished, insert the required type of ink cartridges.



– ৠ NOTE ——

- Switching is not possible unless all six inks are of the same type
- Only genuine ink cartridges can be used. They also need to be turned in the proper direction for insertion. Make sure not to confuse the direction and place for insertion.
- Open the ink cartridge just before you load it into the slot. Printing may be blurred if the ink cartridge is left open for a long time.
- Ink cartridges should be used within two years of the date that is printed on the package. Cartridges that have been loaded into the printer should be replaced within six months.

Step 4

Ink filling operations begin.

Ink Refill 1M

Step 5

After ink filling, ink switching is complete.

Plot OK

-!IMPORTANT

• Ink switching produces a large quantity of waste liquid. Have an absorbent sheet (waste ink tank) ready and dispose of waste fluid in accordance with the "Utility Settings: Head Wash" item of the Functions Edition of the User Guide.

Replacing the Cutter

Depending on the type of roll media used, paper dust accumulating on the cutter groove and cutter tip may lead to poor cutting. In this case, the cutter tip should be cleaned or replaced and the cutter groove should be cleaned. The cutter is a consumable item. If it is not sharp, replace it. One cutter should last for about 1000 cuts (about 20 rolls) so it should be replaced periodically.

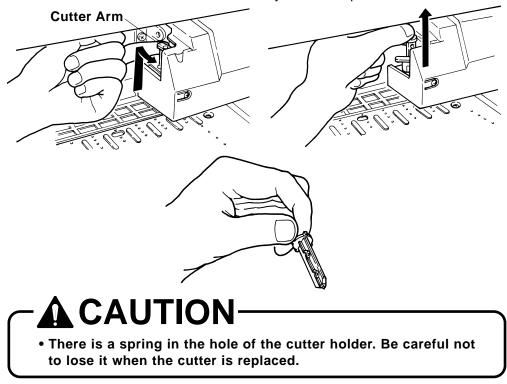
Step 1

Switch off the power, lower the hold lever and bring the head to the middle.



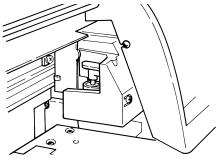
Step 2

Hold the cutter down with your finger, turn the cutter arm forward and remove the cutter. Clean the cutter blade with a dry cloth or replace the cutter.



Step 3

Insert a new cutter blade in the hole in the head. Press down on the cutter while you return the cutter arm over the cutter. The cutter will only fit in one direction.





Step 4

Be sure to return the head to the right by hand before switching on the power.

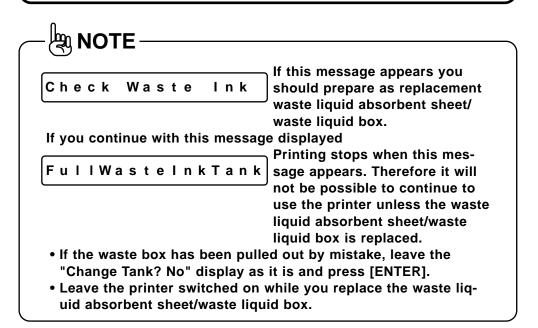


• Cutter life will vary according to the type and thickness of the media and the usage environment, so you should always keep a spare cutter blade handy.

Replacing Waste Liquid Absorbent Sheet (Waste Box)

Waste ink accumulates in the waste box at the back of the printer. When the waste box is full, "Full Waste Ink Tank" is displayed and printer's printing operation ceases. The waste liquid absorbent sheet/waste liquid box must be replaced.

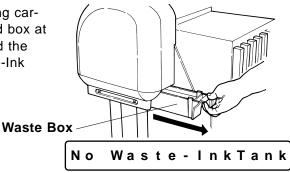
- The used waste liquid absorbent sheet and waste liquid box (case) should be disposed of as non-combustible material in accordance with your local civic regulations.
- It would dangerous for children to lick or swallow the absorbent sheet filled with waste liquid, so dispose of it promptly or put it out of reach.
- If you accidentally touch the waste liquid, wash with soap and water at once.
- If it should enter your eye, wash with plenty of water and see a doctor. If it is licked, gargle with water and wash out straight away. If it is swallowed, immediately drink plenty of water and consult a doctor without delay.



Replacing Waste Liquid Absorbent Sheet (Waste Box)

Step 1

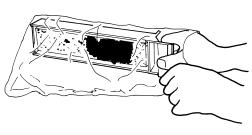
With no printing or cleaning being carried out, pull out the waste liquid box at the back. The alarm will ring and the display will change to "No waste-Ink Tank".



Step 2

Without tilting the waste liquid box that you have removed, place it inside a thick vinyl bag then tip out the absorbent material.

If the waste ink absorbent sheet does not come out of the box, put on the accessory gloves and take it out by hand.



-!IMPORTANT

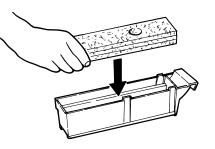
• Check beforehand that the thick vinyl bag to be used does not leak. Also, be careful not to tear the vinyl bag when you are disposing of the waste liquid absorbent material and closing the bag.

• Since there is a risk of damage, don't hit the waste liquid box or bump it against a hard object. If the waste ink absorbent sheet is difficult to remove, put on the accessory gloves and remove it by hand.

Replacing Waste Liquid Absorbent Sheet (Waste Box)

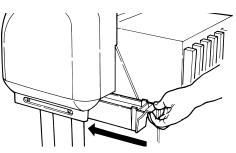
Step 3

Place the replacement waste liquid absorbent sheet in the waste liquid box with the hole towards the handle of the box.



Step 4

Install the waste liquid box containing the new waste liquid absorbent sheet in the printer.



Step 5

The alarm will ring and "Change Tank? No" is displayed.

Press the **[VALUE +]** or **[VALUE -]** control panel keys to change the display to "Yes".

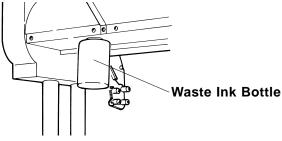
Step 6

Check that "Change Tank? Yes" is displayed then press **[ENTER]**. Waste liquid box replacement is finished and "Plot OK" is displayed.

Plot OK

Replacing Waste Liquid Absorbent Sheet (Waste Ink Bottle)

When printing A0 size or larger widths, very small amounts of ink will be ejected on the left edge for stable printing quality. The waste ink ejected on the left side in that way is collected in a translucent bottle under the main unit (the waste ink bottle).



Step 1

Since there is no panel display or lamp display when the waste liquid absorbent sheet in the waste ink bottle is to be replaced, you should prepare to replace the waste liquid absorbent sheet when you see that the bottle is about half full. Have a new absorbent sheet, a thick vinyl bag and a pair of forceps ready.

- 🖣 NOTE

• Conditions vary for the waste ink bottle to become half full but it will be after printing about 2000 A0 pages.

Step 2

Remove the waste ink bottle by turning it to the left. Using absorbent sheet and forceps, soak up the waste liquid in the bottle and discard the waste liquid absorbent sheet into the open vinyl bag.



Step 3

The waste ink bottle, fitted with new waste liquid absorbent sheet, is installed in the printer by turning it to the right.

Replacing Waste Liquid Absorbent Sheet (Waste Ink Bottle)

- The used waste liquid absorbent sheet should be disposed of as non-combustible material in accordance with your local civic regulations.
- It would dangerous for children to lick or swallow the absorbent sheet filled with waste liquid, so dispose of it promptly or put it out of reach.
- If you accidentally touch the waste liquid, wash with soap and water at once.
- If it should enter your eye, wash with plenty of water and see a doctor. If it is licked, gargle with water and wash out straight away. If it is swallowed, immediately drink plenty of water and consult a doctor without delay.

Cleaning the Cleaning Wiper

When the head is cleaned and the type of ink is changed frequently, waste matter clinging to the cleaning wiper may cause the printing to become faint or blemished. In such cases, you should clean the cleaning wiper.

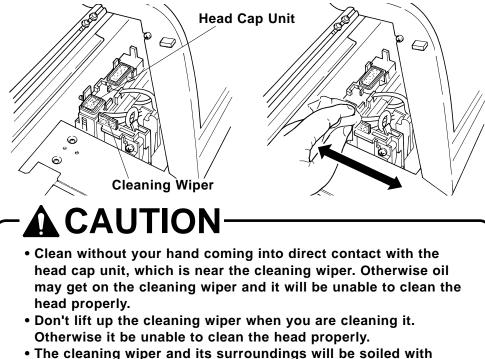
Step 1

Switch off the power, lower the hold lever and bring the head to the middle.



Step 2

Clean the cleaning wiper backwards and forwards two or three times with the cloth for cleaning the cleaning wiper (an accessory item).



waste liquid. Be careful not to dirty your hands and clothes.

Cleaning the Cleaning Wiper

Step 3

Return the head to its former position at the right hand end of the printer.



• The head may be damaged by drying ink, etc. if it is not returned to the right hand end of the printer.

NOTE ·

• After the cleaning wiper has been cleaned, if head cleaning does not make the faintness or blemishing in the printing disappear, contact your local Mutoh dealer.

If you have trouble that you think may be a malfunction when you are using the RJ-6000 Series, first check the details on the following tables (troubleshooting). If an error has occurred that is not covered by any of the items in the following tables, check of the Functions Edition of the User Guide and then, if necessary, contact your local Mutoh dealer.

!IMPORTANT

• If you are to receive service, please have your warranty document ready. If you can not produce it, it may not be possible to check the warranty period and you may be charged for service, even though it is within the warranty period. Similarly, in the case of a service contract, please have your contract document available.

Possible Cause	Remedy	Reference Page
(1) Is the power cable con- nected?	Connect the power cable.	Page 31
(2) Is the AC power supply at the specified voltage?	Use specified voltage.	Page 14
(3) Is the printer cover open, or the hold lever up?	Close the cover. Put the hold lever down.	Page 16

#Nothing happens after power is switched on

#Nothing happens after media is loaded

Possible Cause	Remedy	Reference Page
(1) Is the printer cover open,	Close the cover.	Page 16
or the hold lever up?	Put the hold lever down.	
(2) Is the media loaded obliquely?	Load the media straight.	Page 37
(3) Are ink cartridges installed?	Install ink cartridges.	Page 34

#Nothing happens after the computer sends data		
Possible Cause	Remedy	Reference Page
(1) Is the interface cable con- nected?	Refer to "Connecting the inter- face cable".	Page 48
(2) Are ink cartridges installed?	Install ink cartridges.	Page 34
(3) Do they contain ink?	Replace ink cartridges.	Page 79
(4) Have you replaced the waste box?	Replace waste box.	Page 84

#Nothing happens after the computer sends data

#When printer sends data, the printer shows and error and does not print

Possible Cause	Remedy	Reference Page
 (1) Does the computer have the proper type of equip- ment selected? (2) Do interface conditions and command modes match on both computer and printer? 	Check that the equipment type settings are the same on both the computer and printer. (Refer to "To receive data from the computer".	Page 49

#Parts of the print are dirty or missing

B NOTE —

• If the media is not media specified by Mutoh, you may be unable to obtain proper printing quality.

Possible Cause	Remedy	Reference Page
(1) Is the media damp?	Replace with new media.	Page 37
(2) Are you using creased or wrinkled media?		

#It prints but the position is not right (there are places that cannot be printed)

Possible Cause	Domody	Reference
	Remedy	Page
(1) Is the media loaded in the	Load media correctly.	Page 37
right position?		
(2) Have you made scale or	Cancel scale and mirror set-	Page 45 of
mirror settings?	tings or repeat the set-up.	Functions
(3) Is an initial position speci-	Cancel initial position setting	Page 35 of
fied?	or repeat the set-up	Functions
(4) Is the printing abnormal	Leave for 24 hours after ink	Page 32
after ink was filled?	filling and try printing again	

#Media jams occur frequently

 If the media is not media specified by Mutoh, proper media feeding can not be guaranteed.

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(2) Is your usage environ- ment other than that spec- ified?	Use in the specified environ- ment.	Page 14
(3) Are you using old media?	Replace with new media.	Page 34
(4) Is the media creased or wrinkled?	Replace with new media.	Page 34

#Roll paper is not cut cleanly

Possible Cause	Remedy	Reference Page
(1) Is the cutter sharp?	Replace cutter.	Page 82
(2) Is the media charged with static electricity?	Remove static charge.	
(3) Are you using cloth?	Cut cloth manually.	Page 57

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#Ink initial filling fails

Possible Cause	Remedy	Reference Page
(1) Is the printer cover open,	Close the cover, put the hold	Page 16
or the hold lever up?	lever down.	
(2) Are all six ink cartridges	Insert all six cartridges proper-	Page 34
inserted right to the back?	ly.	
(3) Do all six ink cartridges	Insert all six cartridges of the	Page 34
have the type of ink?	same type.	

#Ink does not appear even after initial filling

Possible Cause	Remedy	Reference Page
(1) Is the ink cartridge cold and frozen?	Leave for at least 3 hours at room temperature (25°C) then do cleaning several times.	Page 32
(2) Was the power cut during initial filling?	Switch on again and continue with initial filling.	
(3) Sometimes the printer seems unable to print nor- mally after initial filling	Do several cleanings and check each time.	Page 63

#Media comes off or is torn during media initialization

Possible Cause	Remedy	Reference Page	
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37	
(2) Is the hold lever down?	Put the hold lever down.	Page 16	
(3) With cut media, is the leading edge aligned with the edge of the printing board?	Load cut media with the lead- ing edge aligned with the edge of the printing board.	Page 38	
(4) With roll media, does the right hand edge of the media move parallel to the guide line during media detection?	Load roll paper correctly so that it moves parallel to the guide line.	Page 41	
(5) Is the scroller mounted correctly?	Mount the scroller correctly.	Page 41	

Possible Cause	Remedy	Reference Page
(6) Is any foreign matter such as media scraps clinging to the drive roller?	Clean the drive roller.	Page 76
(7) Is the media sensor dirty?	Clean the media sensor.	Page 76
(8) Are you using the printer in a place outside the usage environment, such as in direct sunlight?	Bring the environmental condi- tions for using the printer in line with the specified environ- ment.	Page 14

#Media wrinkles during media initialization

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(2) Is the hold lever down?	Put the hold lever down.	Page 16
(3) With cut media, is the leading edge aligned with the edge of the printing board?	Load cut media with the lead- ing edge aligned with the edge of the printing board.	Page 38
(4) With roll media, does the right hand edge of the media move parallel to the guide line during media detection?	Load roll paper correctly so that it moves parallel to the guide line.	Page 41
(5) Is the media loaded obliquely?	Load the media straight.	Page 37
(6) Is any foreign matter such as media scraps clinging to the drive roller?	Clean the drive roller.	Page 76
(7) Are you using the printer in a place outside the usage environment, such as in the draft from an air conditioner?	Bring the environmental condi- tions for using the printer in line with the specified environ- ment.	Page 14

When Trouble Strikes

#Thin media is not detected

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(2) Are you using the printer in a place outside the usage environment, such as in direct sunlight?	Bring the environmental condi- tions for using the printer in line with the specified environ- ment	-

#Wrong media size in media initialization

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(2) Is the hold lever down?	Put the hold lever down.	Page 16
(3) Is the media loaded obliquely?	Load the media straight.	Page 37
(4) Does media tend to curl up when it is loaded?	Remove the tendency to curl or load new media.	Page 37
(5) Are you using the printer in a place outside the usage environment, such as in the draft from an air conditioner?	Bring the environmental condi- tions for using the printer in line with the specified environ- ment.	Page 14
(6) Is the media sensor dirty?	Clean the media sensor.	Page 76
(7) Are you re-using media that has already been printed?	Use new media.	Page 37

#Media is skewed during printing

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
 (2) Is the hold lever down? (3) With roll media, does the right hand edge of the media move parallel to the 	Put the hold lever down. Load roll media correctly so that it moves parallel to the guide line.	Page 16 Page 41
guide line during media detection?		

Possible Cause	Remedy	Reference Page
(4) Is the scroller mounted correctly?	Mount the scroller correctly	Page 41

#Can't install printer driver

Possible Cause	Remedy	Reference Page
(1) Did you add the printer?	Install it again.	Page 51
(2) After you specified the CD-ROM drive, did you select the "\English\95\ RJ-6000" folder?	Install again after correctly specifying the drive containing the "MUTOH PRINTER SOFT- WARE" CD-ROM and the fold- er.	Page 51

#Can't go online with Centronics

Possible Cause	Remedy	Reference Page
(1) Is the Centronics interface cable connected properly?	Connect the Centronics inter- face cable properly.	Page 48
(2) Does the DATA LED on the control panel light up when the application sends the printing data?	If the DATA LED does not light up, contact the application supplier or the computer sup- plier.	
(3) Does the printer's Centronics setting mode and timing agree with the environment on the com- puter side?	Align the printer's Centronics settings with the timing on the computer side.	Page 56 of Functions
(4) Does the command type that is currently set-up match on the application and on the driver side?	Set up user set-up commands.	Page 33 of Functions

When trouble strikes

#Printed line is blurred

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(2) Are you using thick media and thin media?	Use media specified by Mutoh.	Page 37
(3) Are you using ordinary paper?	Use media specified by Mutoh.	Page 37
(4) Are you printing on the printing side of the media?	Check the printing side of the media and load it correctly.	Page 37
(5) Have you tried head cleaning?	Try head cleaning. Use power- ful cleaning.	Page 63

#White and black bands appear in printing

Possible Cause	Remedy	Reference Page
(1) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(2) Is the hold lever down?	Put the hold lever down.	Page 16
• • •	Align the pressure roller with the media and position it cor- rectly.	Page 37
(4) Is the scroller mounted correctly?	Mount the scroller correctly.	Page 41

#Printed lines do not join

Possible Cause	Remedy	Reference Page
(1) Are the ink cartridges out of date?	Replace with new ink car- tridges.	Page 79
(2) Are you using media spec- ified by Mutoh?	Use media specified by Mutoh.	Page 37
(3) Have you tried head cleaning?	Try head cleaning. Use powerful cleaning.	Page 63
(4) Is the ink cartridge cold and frozen?	Leave for at least 3 hours then do cleaning several times.	Page 63
(5) Did you try the fine adjustment of printing quality?	Do a fine adjustment of print- ing quality.	Page 68

Appendix

This section deals with printer specifications, optional items, supply items.

Printer Specifications	PAGE 100
Interface Specifications	PAGE 103
List of Optional and Supply Items	PAGE 106

RJ-6000 Series USER GUIDE Basic Edition

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Printer Specifications

Model	RJ-6000-43	RJ-6000-54	RJ-6000-62		
	(43 inch.)	(54 inch.)	(62 inch.)		
Drive System	Firmware servo / DC motor drive				
Printing Direction	Minimum dista	nce printing (bi-	directional or		
-	uni-directional)				
Resolution	720 dpi x 720 d	pi 360 dpi x 36	0 dpi		
	1440 dpi x 720 dpi (Indicates simulated 1440				
	dpi printing mode)				
Media Feed	· · ·	ire grid roller sy			
Media Supply / Eject		nt supply, front			
		ar supply, front	eject		
CPU	64-bit RISC CP				
Input Buffer	Standard - 8 MB (fixed) 32 MB (slot 1) + 4 MB (plane)				
	Extended - Up to 72 MB (main) + 4 MB (plane)				
	2-slot option - 16 MB, 32 MB				
	In slot 1, 32 MB extended only				
Command	Printer command - MH-GL, MH-GL/2 (MH-				
	RTL), RTL-PASS				
Printing Modes 360 dpi	High quality mo	ode - 4 pass Uni	-direction		
		- 4 pass Bi-dire			
		de - 2 pass Bi-d			
720 dpi	High quality me				
		- 4 pass Bi-dire			
		de - 4 pass Bi-d			
Simulated 1440 dpi					
	Standard mode - 8 pass Bi-direction				
		de - 8 pass Bi-d			
Distance Precision		, whichever is g	reater		
	Using media ty				
		rature: 20°C, Hu	imidity: 60%,		
	Printing mode:				
Rectilinear Precision	±0.5 mm /500 m				
	Using media ty		miditur CO0/		
		rature: 20°C, Hu	multy: 60%,		
Media Type	Printing mode:	nign quality paper, coated	nanor diosev		
media Type					
	paper, glossy film, art paper, cloth, PVC film, Yupo paper, Tybec, thick coated paper, photo				
	glossy film)	See, mick coale	α ράμει, μποιο		
	giossy minj				

Model	RJ-6000-4		000-54	RJ-6000-62	
	(43 inch.)		nch.)	(62 inch.)	
Roll Media Core		Standard: 2-inch, Option:			
Maximum Media Width	1092.2 m		.6 mm	1574.8 mm	
Effective Printing Width	1072.2 m	m 1351	.6 mm	1554.8 mm	
Maximum Roll Paper	50 m (maxin	num size of	f roll pap	per that can be	
Length	mounted)				
Maximum cut media lengt	h 1300 mm (lo	onger sizes	are trea	ted as roll	
	paper)			1	
Media Size Widt		210		210 to	
	1092.2 m	m 1371	.6 mm	1574.8 mm	
Lengt	ו	297 to 1	300 mm		
Roll Media Maximum		13	m		
printing Length				1	
Printing Margins	Front	Rear	Righ	nt Left	
Standard Cu		20 mm	10 m		
Ro		20 mm	10 m	m 10 mm	
Optional Cu	***	20 mm	5 m	m 5 mm	
Ro		20 mm	5 m		
		ality is ass	ured wit	thin standard	
	margins				
	* If media wi			· · ·	
				8 mm (62-inch)	
				ances shown	
		will be diffe			
Media Holding System	Pressure ro				
Media Cutting System	Horizontal auto-cut mechanism (free fall to eject tray), guide for manual cutting				
Ink Cartridges Dye ink		-	ight cyai	n, light magenta	
	- each 220 n				
Pigment ink				(orange, green)	
	or (light cya		genta)		
	- each 220 n				
Interfaces Standard			•	E1284 compati-	
	ble, Nibble,			A	
Option	on Ethernet (Windows NT, Windows 95, Windows				
	98, TCP/IP, NetWare, EtherTalk)				
Head Life	Nozzles average at least 2 billion dots (con- tinuous ejection at 25°C with no dust or dirt)				
	tinuous ejec	ction at 25°	with n	o dust or dirt)	

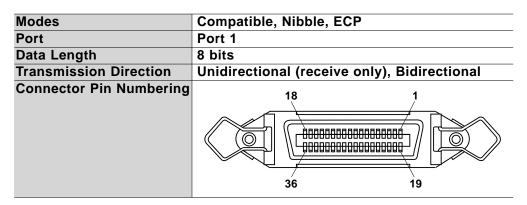
Printer Specifications

Model		RJ-6000-43	RJ-6000-54	RJ-6000-62	
		(43 inch.)	(54 inch.)	(62 inch.)	
Environment					
Operation Cond	litions	Temperature: 1	0°C to 35°C,		
		Humidity: 20% to 80% (no condensation)			
Var	iation				
Storage cond	litions				
•		Humidity: 20% to 90% (no condensation)			
Power Supply Voltag	е	100 to 120 V AC ±10%, 200 to 240 V AC ±10%			
Input Frequency		50 Hz ±1%/60 Hz ±1% automatic switching			
Power Consumption					
Sta	andby		60 W or less		
Pr	inting	90 W or less	90 W or less	110 W or less	
Cle	aning		75 W or less		
External Dimensions					
H	leight	1164 mm	1164 mm	1164 mm	
	Width	1935 mm	2215 mm	2350 mm	
	Depth	676 mm	676 mm	676 mm	
Weight Mai	n Unit	75 kg	80 kg	85 kg	
_	Stand	9 kg	12 kg	15 kg	

Interface Specifications

Centronics Interface Specifications

(Bi-directional Parallel Interface: IEEE1284 Compatible)



Parallel interface pin numbers and signals

Pin No.	Name of signal	Signal Direction	Pin No.	Name of signal	Signal Direction
1	STROBE	RJ Printer <-	19	SG	
2	DATA1	RJ Printer < >	20	SG	
3	DATA2	RJ Printer < >	21	SG	
4	DATA3	RJ Printer < >	22	SG	
5	DATA4	RJ Printer < >	23	SG	
6	DATA5	RJ Printer < >	24	SG	
7	DATA6	RJ Printer < >	25	SG	
8	DATA7	RJ Printer < >	26	SG	
9	DATA8	RJ Printer < >	27	SG	
10	ACK	RJ Printer ->	28	SG	
11	BUSY	RJ Printer ->	29	SG	
12	P ERROR	RJ Printer ->	30	SG	
13	SELECTED	RJ Printer ->	31	INIT	RJ Printer <-
14	AUTOFD	RJ Printer <-	32	FAULT	RJ Plotter ->
15	not used		33	not used	
16	SG		34	not used	
17	FG		35	not used	
18	+ 5V		36	SELECTIN	RJ Printer <-

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Appendix

Recommended Specifications for Centronics Interface Cable

Interface	IEEE1284 (bidirectional parallel) compatible
Cable Type	AWG28 x 18 pair (twisted pairs)
Shield Type	Metal tapes and braiding (double-shielded
	cable)
Characteristic Impedance	62Ω

Network Interface (option) Specifications

Port	Port 2 (only when optional interface board is fitted)						
Network Type	Ethernet IEEE802.3						
Network I/F	10BASE-T/100B	ASE-TX * Automatic sw	itching type				
	* Switching type	e					
	(RJ-45 connected	or, twisted pair cable, ca	ategory 5)				
Protocol	TCP/IP						
Mode	• ftp	• Remote printer mode	Printer name				
	• Ipr	 Print server 	Zone name				
	 socket 						
Spool Memory	ool Memory 384 KB						
Functions	Automatic protocol recognition						
	Transmission speed 50 to 150 KB/s						
	• IP address is set up by the remote panel utility						
	Other settings are set up with Telnet commands						

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List of Optional and Supply Items

Interface Extension Board

Name of Item	Model Number	Qty.
Ethernet interface board (10/100BASE-T)	RJ-ETH13TX	1 set

Extended Memory

Name of Item	Model Number	Qty.
Extended memory 16 MB	SIM 16M	1 unit
Extended memory 32 MB	SIM 32M	1 unit

Other Options Name of Item Model Number Qty. 43-inch scroller (for 3-inch paper tube) 1 unit RJ60-SR43-03 Scroller 3" 43-inch scroller (for 2-inch paper tube) RJ60-SR43-02 1 unit Scroller 2" 54-inch scroller (for 3-inch paper tube) 1 unit RJ60-SR54-03 Scroller 3" 54-inch scroller (for 2-inch paper tube) RJ60-SR54-02 1 unit Scroller 2" 1 unit 62-inch scroller (for 3-inch paper tube) RJ60-SR62-03 Scroller 3" 1 unit 62-inch scroller (for 2-inch paper tube) RJ60-SR62-02 Scroller 2"

Ink Cartridges (220 ml)

Name of Item	Model Number	Qty.
Pigment ink cartridge K (black)	RJ41-ING-BK2	1 unit
Pigment ink cartridge C (cyan)	RJ41-ING-CY2	1 unit
Pigment ink cartridge M (magenta)	RJ41-ING-MA2	1 unit
Pigment ink cartridge Y (yellow)	RJ41-ING-YE2	1 unit
Pigment ink cartridge Lc (light cyan)	RJ60-ING-LC2	1 unit
Pigment ink cartridge Lm (light magenta)	RJ60-ING-LM2	1 unit
Pigment ink cartridge O (orange)	RJ60-ING-OR2	1 unit
Pigment ink cartridge G (green)	RJ60-ING-GR2	1 unit

Waste Ink Box

Name of Item	Model Number	Qty.
Waste Ink Box	RJ8-HEB	1 unit

List of Optional and Supply Items

Cutter	
--------	--

Name of Item	Model Number	Qty.
Cutter blade	RJ8-CBS	1 unit

Media

Model Number	Qty.	Madia Cina
	QUY.	Media Size
RJ6-THCPAPE137 * 30	1 unit	1,372 mm * 30 m
RJ6-GRAPE137 * 30	1 unit	1,372 mm * 30 m
RJ6-GPET132 * 20	1 unit	1,321 mm * 20 m
RJ6-GPET150 * 20	1 unit	1,499 mm * 20 m
RJ6-CLB133 * 20	1 unit	1,330 mm * 20 m
RJ6-CLB150 * 20	1 unit	1,500 mm * 20 m
RJ6-BL127 * 30	1 unit	1,270 mm * 30 m
RJ6-MPET137 * 30	1 unit	1,370 mm * 30 m
RJ6-MPETT137 * 30	1 unit	1,370 mm * 30 m
RJ6-YP156 * 45	1 unit	1,560 mm * 45 m
RJ6-YPT152 * 30	1 unit	1,520 mm * 30 m
	RJ6-GRAPE137 * 30 RJ6-GPET132 * 20 RJ6-GPET150 * 20 RJ6-CLB133 * 20 RJ6-CLB150 * 20 RJ6-BL127 * 30 RJ6-MPET137 * 30 RJ6-MPETT137 * 30 RJ6-MPETT137 * 30	RJ6-GRAPE137 * 301 unitRJ6-GPET132 * 201 unitRJ6-GPET150 * 201 unitRJ6-CLB133 * 201 unitRJ6-CLB150 * 201 unitRJ6-BL127 * 301 unitRJ6-MPET137 * 301 unitRJ6-MPETT37 * 301 unitRJ6-MPET137 * 301 unit

• Dye inks are also available. See your local MUTOH dealer for further details.

From Unpacking to Printing On-line A simple explanation of the flow from unpacking to getting online. Precautions that must be observed are also explained.

Contents

Read this if you can't find an item you want to look up.

Before Using the Printer

This details what must be done before you start to use the printer. Printer operating environment, user registration, names of parts and names on the control panel are explained.

Preparing for Printing Preparing the printer for use, assembly, inserting ink cartridges, loading media, installing a driver.

Direct Access Keys

The operation of direct access keys that are normally used for effective control of printer functions.

Menus

An overview of menus for applying printer functions. See the "Functions and Operations" edition of the User Guide for details of menus.

Daily Maintenance

Details of maintenance that should be done every day (cleaning, ink cartridge replacement, etc.).

When Trouble Strikes

More advice on what to do when trouble strikes and how to handle problems.

Appendix

Printer specifications, optional items, supply items, etc.



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