MUTOH

USER GUIDE

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



USER GUIDE RJ-6000 Series

Full-Color Inkjet Printer Functions Edition

Mutoh Industries Ltd.

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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 deals with unpacking, installation, preparing for printing, test printing, direct access key operations from online printing, menu maps, daily maintenance, trouble shooting, etc. All the important essentials for every-day use of the printer are here, so please be sure to read it.

Functions Edition

This manual which you now have open is the Functions edition of the User Guide. This explains the printer's functions. Essential information for using this printer, such as functions and operations, are explained in detail. "What does this function do to the printing?" and "Which function do I use when I want to print like this?" are separated for easy searching. Details and technical terms for the fitting of options and error messages are included for you to read 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. 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 (RJ-6000-43, RJ-6000-54, RJ-6000-62) Full-color Inkjet Printer.

This RJ-6000 Series is a full-color inkjet printer equipped with 360 dpi, 720 dpi and simulated 1440 dpi resolution, that supports Centronics (bi-directional 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.



• 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 prompt detecting trouble promptly and maintaining printing quality in top condition. For details, contact your local Mutoh dealer.

In order to operate the printer's functions, first look up the operation you wish to perform by referring to "When you want to do this".

Then check the explanation of the function under "Understanding the functions".

Next, refer to the actual operation under "How to set parameters".

Contents

Contents

Types and Usage of User Guide													•			• •		. 2
Introduction					• •	•			•		•		•		•	•		. 4
Contents	• • • •		••	• •	• •	•	••	• •	•	• •	•	• •	•	• •	•	• •	• •	. 5
Control Panel and Menus						•	•••		•		•				•	•		. 9
Control Panel for Menu Mode O	perat	ion	S												-			10
Menu Mode Operations																		. 11
Menu Levels				• •	• •				•		•		•		•	•		13
When You Want to Do This													•			•		15
When You Want to Do This															-			16
To use roll media efficiently																		16
To speed up printing time															-			16
To improve printing quality																		17
To connect with Centronics																		17
To connect with network (Ethe	rnet).													-			17
To cut roll media																		17
To place printed output in a sp	becifi	ied	po	sit	ior	า									-			18
To use color effectively			•												-			19
To check the status of the prir	nter														-			19
To check printer set-up			• •	• •			• •	• •	•		•		•	• •	•	•	• •	20
Explanation of Functions						•							•			•		21
Understanding the Functions															-			22
Command Settings															-			22
Function Setting															-			24
Centronics Setting																		28
Network Setting																		28
Utility Settings															-			29

Contents

How to Set Parameters
Command Settings
Command
Prot Area
Position
Terminator
Resolution
Online Timer
Overwrite
Function Settings
Ink Dry Time
Halftone
CMY -> Black
Scale
FMirror
Direction
Cut Position
Media Cut
Сору
Ink Density
Distance Adjustment
Centronics Settings
Mode
Timing
Network Settings
IP Address
Utility Settings
Error Display
Initial: All
Initial: Command
Initial: Function
Initial: Centronics
Initial: Network
Dump
Head Wash
Data Order
Accuracy Adjustment Plot

Contents

Installation of Options			•	•	•	•	79
Network Interface Board Installation							80
Memory Extension	•	• •	•	•	•	•	82
Details of the Display			•	• •	-	-	85
Printer Status Display							86
Messaged Errors and Countermeasures							88
Data error Display and Countermeasures							91
Command Error Display and Countermeasures							92
Errors Requiring a Restart							94
Errors Requiring Restart that Involve the Mechanical System							94
Errors Requiring Restart that Involve the CPU System							96

Control Panel and Menus

This section gives an overview of the control panel for various types of menu settings and explains the menu structure.

Control Panel for Menu Mode Operations	PAGE 10
Menu Mode Operations	page 11
Menu Levels	PAGE 13

Control Panel for Menu Mode Operations

For all types of menu operations, shift to menu mode by pressing the [Menu] key. This switches the functions of the keys to the functions shown in the purplish-red frame.



Direct access keys do not work in menu mode.

Menu mode will be cancelled if no key operation has been made for three minutes.



Menu Mode Operations

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.

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.

* M e n u *

	- / >	: sub-menu for detailed settings
[™]	lenu Up]	[ENTER]
Menu Co	mmand>	to "Command" settings
[Menu Down] 🛔 🖡 [N	/lenu Up]	
(*Menu* Fun	ction>	to "Function" settings
[Menu Down] 🗼 🕇 [N	/lenu Up]	
Menu C	entro>	to "Centronics" settings
[Menu Down]	/lenu Up]	
Menu Ne	twork>	to "Network" settings
[Menu Down] 🗼 🕇 [N	/lenu Up]	
Menu Ut	ility>	to "Utility" settings
[Menu Down]	т т с	Reference The "Network" settings is dis- played only if the Ethernet board option has been installed.



Command>



Step 3

- * Press the [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 Levels

Menu (Command>
Command	RTL-PASS / MH-GL, GL2 / MH-GL2
Plot Area	Normal / Expand
Position	P1 / (hardclip) LL / Full
Terminat	Special / Normal
Resolut.	300 dpi / 360 dpi / 720 dpi
Online Timer	Off / 10 sec to 30 sec to 800 sec
Overwrite I	Last / Mix
Menu F	unction>
Ink Dry Time	0 sec to 5 sec to 30 sec to 60 min
Halftone	Speed / Quality / Thin
CMY->BLACK	No / Yes
Scale 2	25% to 100% to 400%
Mirror	Off / Y On
Direct.	Command / MAX-MIN
Cut Pos.	Data / Standard
Media Cut	Auto / Manual / Off
Сору	1 to 99
Ink Density I	Normal / Thin / Faint
Dist. Adj.	No / Clear / Change / Confirm
* Menu*	Centro>
Mode	Centro / Bitro
Timing /	A-B / B-A
Menu I	Network>
IP Address	000.000.000.000 to 192.034.043.015 to 255.255.255.255
Menu U	Jtility>
Error Display	On / Off
Initial	OK / No
I	All OK / No
Commar	nd OK / No
Func	ti. OK / No
Cent	ro OK / No
Netwo	rk 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

RJ-6000 Series USER GUIDE Functions Edition

When You Want to Do This

This section makes it easy for you to look up what sort of function to use when you want to do a particular sort of operation. It asks the questions and then tells you on which page of which User Guide you can find the answers.

When You Want to Do This

PAGE 16

When You Want to Do This

To use roll media efficiently

Question	Answer	Explanation	Operation
I want to print without	Set "Direction" to "MAX-	Page 25	Page 47
making waste spaces	MIN" in "Function"		
on the media.	settings.		
I want to make a print	Set "Direction" to	Page 25	Page 47
that aligns the data	"Command" in		
with spaces.	"Function" settings.		
I want to cut the media	Set "Cut Position" to	Page 26	Page 48
to the size that has	"Data" precedence in		
been printed.	"Function" settings.		
I want to cut the media	Set "Cut Position" to	Page 26	Page 48
to the standard size.	"Standard" size in		
	"Function" settings.		
I want to make a series	Set "Media Cut" to "Off"	Page 27	Page 49
of prints on one sheet	in "Function" settings.		
without cutting.			

To speed up printing time

Question	Answer	Explanation	Operation
If I want to shorten the	Change "Ink Dry Time".	Page 24	Page 41
time between finishing			
the print and cutting			
the roll media?			
If I want to print quickly	Light up the Low LED by	Basic	
even if resolution is	pressing the [RESOLU-	Page 61	
reduced?	TION] key.		
If I want to print quickly	Set "Harftone" to	Page 24	Page 43
even if graphic quality	"Speed" diffusion for the		
is reduced?	user number that you		
	want to change.		
If I want to print faster	Change the interface con-	Page 80	\leftarrow
without reducing reso-	nection (from Centronics	Page 28	Page 57
lution or quality?	to Network)		

To improve printing quality

Question	Answer	Explanation	Operation
If I want to give priority	Light up the Quality LED	Basic	
to quality rather than speed?	by pressing the [QUALITY / SPEED] key.	Page 62	
If I want to give priority to graphic quality rather than speed?	Set "Harftone" to "Quality" diffusion for the user number that you want to change.	Page 24	Page 43

To connect with Centronics

Question	Answer	Explanation	Operation
If I want to have bidi- rectional communica- tion with Centronics?	Change the Centronics mode setting to "Bi Centronics".	Page 28	Page 55
If I want to change Centronics ACK/BUSY timing control?	Change "Timing" in "Centronics" settings.	Page 28	Page 56

To connect with network (Ethernet)

Question	Answer	Explanation	Operation
If I want to change the	Change "IP address" in	Page 28	Page 57
IP address?	"Network" settings.		

To cut roll media

Question	Answer	Explanation	Operation
If I want to feed and cut	Check that printing data	Basic	
the finished part of a	are not being received	Page 67	
print?	then feed the media by	Basic	
	pressing the [MENU] key	Page 64	
	while you are pressing		
	the [Shift] key and cut the		
	roll media by pressing		
	the [CANCEL] key.		

When You Want to Do This

	To	place	printed	outp	out	in	as	specified	position
--	----	-------	---------	------	-----	----	----	-----------	----------

Question	Answer	Explanation Operation	
If I want to print in the	Change "Direction" to	Page 25	Page 47
middle of the page with			
maximum and minimum			
If I want to print on	Set "Scale"	Bago 24	Bago 45
modia of a different	* Examples of scales	Faye 24	Fage 45
size from that specified	botwoon standard sizes		
in the data	AA > A2 > A2 > A2		
in the data.	A4 > A3, A3 > A2,		
	$R_1 > R_2 = R_3 > R_2$		
	$B_{4} > B_{3}, B_{3} > B_{2}, B_{3} > B_{4}$		
	• $\Delta 4 > B4 \ \Delta 3 > B3$		
	$\Delta 2 > B2 \Delta 1 > B1$		
	$A_2 > B_2, A_1 > B_1,$ $A_0 > B_0 \cdot 122\%$		
	• $B4 > A3 B3 > A2$		
	B2 > A1, B1 > A0 : 115%		
	• B0 > A0. B1 > A1.		
	B2 > A2, B3 > A3.		
	B4 > A4 : 86%		
	• A0 > B1. A1 > B2.		
	A2 > B3, A3 > B4 : 81%		
	• A0 > A1, A1 > A2,		
	A2 > A3, A3 > A4,		
	B0 > B1, B1 > B2,		
	B2 > B3, B3 > B4 : 70%		
If I want to print with	Set "Mirror" for the user	Page 25	Page 46
reversed data?	number you want to	_	_
	change.		

To use color effectively

Question	Answer	Explanation	Operation
If I want to print after changing the graphic quality?	Press the [QUALITY / SPEED] key and select "Quality", "Normal" or "Speed".	Basic Page 62	-
	Change "Harftone" There are three type of tone processing: "Speed" diffusion, "Quality" diffu- sion and "Thin" diffusion.	Page 24	Page 43
If I want to print after changing the resolu- tion.	Change "Resolution".	Page 23	Page 37
If I want to print after mixing overlapping col- ors (over print)?	Change "Overwrite".	Page 23	Page 40

To check the status of the printer

Question	Answer	Explanation	Operation
If I don't want non- problematical errors to be displayed?	Set "Error Display" to "Off" in "Utility" settings.	Page 29	Page 59
If I want to restore error display without switching off the power?	Set "Error Display" to "On" in "Utility" settings.	Page 29	Page 59

When You Want to Do This

To check printer set-up

Question	Answer	Explanation	Operation
If I want to know what	Print the setup list print	Basic	
are the current printer	by pressing the [MEDIA]	Page 66	
settings?	key while you are press-		
	ing the [Shift] key.		
If I want to restore the	Initial "Command" under	Page 29	Page 62
original factory	"Initial" in "Utility" set-		
Command settings?	tings.		
If I want to restore the	Initial "Function" under	Page 29	Page 64
original factory	"Initial" in "Utility" set-		
Function settings?	tings.		
If I want to restore the	Initial "Centronics" or	Page 30	Page 66
original factory	"Network" under "Initial"		Page 68
Function settings?	in "Utility" settings.		
If I want to restore all	Initial "All" under "Initial"	Page 29	Page 60
of the printer's original	in "Utility" settings		
factory settings?			

Explanation of Functions

This section explains the content of each function in detail and gives the page number for you to look it up easily in the User Guide.

Understanding the Functions PAGE 22

Understanding the Functions

Command Settings

Na	ame of Function	Reference Page
Command		
This specifies the commands and conditions that are trans- ferred from the computer. The following commands are sup- ported:		
•RTL-PASS: •MH-GL, GL2 (MH-RTL):	Mutoh MH-GL/MH-GL/2 (MH-RTL) commands (conform to Hewlett- Packard HP-GL, HP-GL/2 (HP-RTL) commands)	
•MH-GL2 (MH-RTL):	Mutoh MH-GL/2 (MH-RTL) commands (conform to Hewlett-Packard HP-GL/2 (HP-RTL) commands)	
(MH-GL, GL2 printing u	nit is 0.025 mm)	
Plot Area		Page 34
 This specifies environmeties the printing area (hat series printer Distance from edges of Cut sheet - Front Roll media - Front Roll media - Front Expanded: Specifies a printer structure plotters. However, since the max a 54-inch printer and 15 expanded mode is spectimet for a 54-inch printer and 15 expanded mode is spectime for a 54-inch printer and 15 expanded mode is spectimet for a 54-inch printer and 15 expanded mode is spectimet for a 54-inch printer and 15 expanded mode is spectime for a 54-inch printer and 15 expanded mode is spectimet for a 54-inch	ental functions for the printer. It speci- rdclip area) for the media size. e standard printing area for RJ-6000 ers f media: 25 mm, Back 20 mm, Sides 10 mm t 25 mm, Back 20 mm, Sides 10 mm orinting range for the RJ-6000 printer changeable with Mutoh XP Series pen imum printing range is 1351.6 mm for 54.8 mm for a 62-inch printer, if ified with media wider than 1361.6 r, or 1564.8 mm for a 62-inch printer, n shown below will be differed. f media: 25 mm, Back 20 mm, Sides 5 mm t 25 mm, Back 20 mm, Sides 5 mm 361.6 mm or less, 62 inch: 1564.8 mm	

Understanding the Functions Command Settings

Name of Function	Reference Page
 Position In the case of MH-GL, GL2 (MH-RTL) and MH-GL/2 (MH-RTL), this specifies the initial pen position in printer commands. •P1: The initial position is P1 (scaling point) •LL: The initial position is at the lower left of the hardclip. •Full: The initial position is at the lower left of the media. 	Page 35
Terminator	Baga 26
In the case of MH-GL, GL2 (MH-RTL) and MH-GL/2 (MH-RTL), this specifies a function that is different from the original command function as the terminator with respect to some commands in each of the printer's command modes. •Normal: Only the original command is used •Special: Recognizes end of data as the terminator SP0; (SP;)	raye so
Resolution	Page 37
In the case of MH-GL, GL2 (MH-RTL) and MH-GL/2 (MH-RTL), this specifies the resolution for image data in MH-RTL com- mands. • 300 dpi: Sets image data resolution to 300 dpi • 360 dpi: Sets image data resolution to 360 dpi • 720 dpi: Sets image data resolution to 720 dpi	
Online Timer	Page 38
 When online data is broken off, this specifies a certain period of time, the elapsing of which is taken to be the end of image data. Online timeout: Off, 10 sec, 20 sec, 30 sec, 40 sec, 50 sec, 60 sec, 90 sec, 120 sec, 150 sec, 180 sec, 210 sec then in 30-sec increments to 720 sec, 750 sec, 780 sec, 800 sec. 	
Overwrite	Page 40
This specifies functions related to the printer's own environ- ment. Specifies the method for controlling the overwritten por- tions of a diagram. • Last: Overwritten portion takes a color to be printed later • Mix: Overwritten portion takes mixed colors	

Function Settings

	Name of Funct	ion	Reference Page	
Ink Dry Time				
Ink drying times differ according to the type of media. After the printing is finished, roll media is cut off and falls into the ejected media basket. If the ink is not yet dry, the media will be soiled. Ink drying time is the delay to allow the ink to dry between the end of printing and the cutting of the roll media. • Ink drying time: 0 sec, 5 sec, 10 sec, 20 sec, 30 sec, 40 sec, 50 sec, 60 sec, 90 sec, 120 sec, 150 sec, 180 sec, 210 sec, 240 sec, 270 sec, 300 sec, 6M, 7M, 8M, 9M, 10M, 15M, 20M, 25M, 30M, 35M, 40M, 45M, 50M, 55M, 60M.				
Halftone			Page 43	
This specifies the method for expressing pseudo-halftone pro- cessing of MH-GL/2 (vector) data or unbinarized MH-RTL (raster) data. • Speed diffusion: Rapid expression of tones with an				
• Quality diffusion: High quality expression of tones by mean error minimization				
• Thin diffusion:	Try this if the another brand speed diffusi	data was prepared for d of printer and high on appears too dense.		
CMY -> Blac	ck		Page 44	
Specifies whether black is to be expressed by CMY (mixture) or K. In graphic language mode, it appears as follows:				
	Yes	No		
RTL-PASS	Black must be K ink	CMY black may be mixed with K		
MH-GL/MH-GL2	Black must be K ink	Black must be CMY mixed		
Scale				
This function pr • 25% to 100% to	This function prints with expanded or reduced printing data • 25% to 100% to 400% (in 1% steps)			

Understanding the Functions Function Settings

	Name of	Function		Reference Page
Mirror This function direction. M • Off:	n prints with printir irror may not work No reversal	ng data revers with some im	sed in the Y-axis age data.	Page 46
• Y on:	Reversing in the Y	direction		
In a case w	l nere data is to be pr	rinted on roll	media. this func-	Page 47
tion specific to be based on the area • Command: • MAX-MIN:	es whether the layor on the size of the o that will actually be If a command spec the data, media siz mand. The maximum and determine the size data, regardless of size commands, ar ter of the area to th	ut of the imag data including e printed. cifying page s e will be judg minimum val of media that f origin coord nd the layout he center of t	e on the media is spaces or only ize is contained in jed from that com- ues of the data t will contain that inates or page matches the cen- he media.	
	Command Printing Area	Direction	MAX - MIN Printing Area	
	/ Media size specifi	ed by command	l	



Understanding the Functions Function Settings

	Name of Function	Reference Page
Media cut Selects whether ro off is selected, the page. • Off:	oll media will be cut at the end of printing. If e data can be printed again on the same	Page 49
	Printing area for second copyRear margin of first copy and leading margin of second are missingPrinting area for first copy* Printing area determined by layout	
• Auto: F Auto-cut e • Manual: F Manual cut e k	Roll media is cut automatically when printing ends. Roll media is cut manually when printing ends. Use this for cutting media than can not be cut automatically (fireproof cloth or out- doors cloth). (See Basic edition page 57, Making a Manual Cut".)	
Copy Specifies number eral times. •1 to 99	of copies when the data is to be printed sev-	Page 50
Ink Density Set printing densit •Normal: •Thin: •Faint:	ty. Ordinary density printing Printing density lighter than "Normal" Printing density lighter than "Thin"	Page 51
Distance Adju Enter the length and distance based on setting, the length ment is displayed, the user's scale, m	ustment ccording to the data and the actual X-axis the actual printed document. If there is no and width of the previously printed docu- The distance adjustment is for adjusting to ot for ensuring distance precision.	Page 52

Understanding the Functions Function Settings / Centronics Settings / Network Settings

Name of Function			
* "Normal",	"Thin" and "Faint" are all valid if the resolution is		
set to pseu	do-1440 dpi or 720 dpi but please note that if 360		
dpi is set,	dpi is set, the printing density will be "Normal" even when		
"Thin" or "	"Thin" or "Faint" is set.		
• No:	No distance adjustment is made		
Clear:	To erase the current distance adjustment setting		
Change:	To set a distance adjustment		
• Confirm:	To confirm a distance adjustment		

Centronics Settings

	Name of Function	Reference Page
Mode		Page 55
Sets the mode	e for the Centronics connection.	
Centronics:	Selects fixed one-way Centronics communica- tion	
BiCentronics	: Selects Bitronics that allows two-way commu- nication (supports compatible mode, nibble mode, ECP mode)	
Timing		Page 56
Sets ACK timi • A-B: Selects • B-A: Selects	ng for Centronics online communication ACK timing for the A-B busy method ACK timing for the B-A busy method	

Network Settings

Name of Function	Reference Page
IP address	Page 57
Sets up IP address for the network connection (Ethernet). Enter the IP address assigned by your network administrator After making the setting, turn the printer off momentarily and restart it.	
• 000.000.000.000 to 192.034.043.015 to 255.255.255.255	

Utility Settings

Name of Function	Reference Page
Error Display	Page 59
Specifies whether the error LED will light and error details will be displayed in the liquid crystal display unit when a minor error has occurred. •On: The error LED will light and error details will be dis-	
played in the liquid crystal display unit when a minor error has occurred	
•Off: No indication will be given of a minor error occurring, either by error LED or by the liquid crystal display unit	
Initial All	Page 60
 Restores the contents of all backed up settings to the values set when shipped by Mutoh. OK: All backed up settings are restored to the factory settings 	
No: Factory settings are not restored	
Initial Command	Page 62
Restores the backed up command settings to the values set when shipped by Mutoh.	
• OK: The backed up command settings are restored to the factory settings	
No: Factory settings are not restored	
Initial Function	Page 64
Restores the backed up function settings to the values set when shipped by Mutoh.	
• OK: The backed up function settings are restored to the fac- tory settings	
No: Factory settings are not restored	

Name of Function	Reference Page
Initial Centronics	Page 66
Restores the backed up Centronics settings to the values set when shipped by Mutoh.	
• OK: The backed up Centronics settings are restored to the factory settings	
No: Factory settings are not restored	
Initial Network	Page 68
Restores the backed up Network settings to the values set when shipped by Mutoh.	
• OK: The backed up Network settings are restored to the fac- tory settings	
No: Factory settings are not restored	
Dump	Page 70
Prints a dump for the serviceman to check online.	
 Start-End: Prints a dump from start to end 	
All: Prints a dump for all data	
Head Wash	Page 72
Withdraws the filled ink and cleans the interior of the head. After cleaning, the head must be filled with ink for printing.	
• Yes: Head is cleaned.	
• No: Head is not cleaned.	
Data Order	Page 75
In case light-cyan and light-magenta is being used, sometimes no desired color will be produced depending on the kind of RIP to be used.	
In such a case, please try to use this Data Order function.	
• 5Lc6Lm: An ordinary color pattern is specified.	
• 5Lm6LC: A specific color pattern is used.	

This section explains how to set parameters for all types of menu.

Command settings:

Command	PAGE 33
Plot Area	PAGE 34
Position	PAGE 35
Terminator	PAGE 36
Resolution	PAGE 37
Online Timer	PAGE 38
Overwrite	PAGE 40

Function settings:

Ink Dry Time	PAGE 41
Halftone	PAGE 43
CMY -> Black	PAGE 44
Scale	PAGE 45
Mirror	PAGE 46
Direction	PAGE 47
Cut Position	PAGE 48
Media Cut	PAGE 49
Сору	PAGE 50
Ink Density	PAGE 51
Distance Adjustment	PAGE 52

RJ-6000 Series USER GUIDE Functions Edition

How to Set Parameters

Centronics Settings:

Mode	PAGE 55
Timing	PAGE 56

Network Setting:

IP Address	PAGE 57
------------	---------

Utility Settings:

Error Display

Utility Settings: Initial

All	PAGE 60
Command	PAGE 62
Function	PAGE 64
Centronics	PAGE 66
Network	PAGE 68

Utility Settings:

Dump	PAGE 70
Head Wash	PAGE 72
Data Order	PAGE 75

Accuracy Adjustment Plot PAGE 76

Command Settings: Command

Plot OK

Menu*

Menu Command>

Command>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 3

Display a Command item by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 4

Specify "MHGL, GL2", "MH-GL2" or "RTL-PASS" by pressing the **[VALUE +]** or **[VALUE -]** key.

Command : RTL - PASS

Command:MHGL,GL2

PlotArea: Normal

Plot OK

Step 5

Press the **[ENTER]** key to confirm "Command" setting and shift to the next item to be set.

Step 6

If no other items are to be changed, press the **[Back]** key.

Step 7

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 8

The permanent display is restored.

Command Settings: Plot Area

п	-		~	v
Γ	υ	τ	υ	n

Menu*

k	Μ	е	n	u	*	Command:	>
		U	••	ч			

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the [Menu Up] key or [Menu Down] key.

Step 3

Press the **[ENTER]** key to confirm the "Command" menu and shift to the next level.

Step 4

Bring up the "Plot Area" item by pressing the [Menu Up] key or [Menu Down] key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to select "Normal" or "Expand".

Step 6

Press the **[ENTER]** key to confirm "Plot Area" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 9

The permanent display is restored.

Command:MHGL,GL2

Command>

PlotArea: Expand

Menu Command>

Plot OK

Command Settings: Position

Plot OK

Menu*

Position:

Menu Command>

Command:MHGL,GL2

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the [Menu Up] key or [Menu Down] key.

Step 3

Press the **[ENTER]** key to confirm the "Command" menu and shift to the next level.

Step 4

Bring up the "Position" item by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 5

P 1

Press the **[VALUE +]** or **[VALUE -]** key to select "P1" or "LL (Hardclip lower left)" or "Full".

Step 6

Press the **[ENTER]** key to confirm "Position" and shift to the next item to be set.

Command>

Position: LL

Terminat : Special

* Menu *

Command>

Plot OK

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 9

The permanent display is restored.
Command Settings: Terminator

Plot OK

Menu Command>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the [Menu Up] key or [Menu Down] key.

Step 3

Press the **[ENTER]** key to confirm the "Command" menu and shift to the next level.

Step 4

Bring up the "Terminat" item by pressing the [Menu Up] key or [Menu Down] key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to select "Special" or "Normal".

Step 6

Press the **[ENTER]** key to confirm "Terminat" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 9

The permanent display is restored.

Plot OK

Menu*

Resolut.:

Menu Command>

Command:MHGL,GL2

Terminat: Normal

360dpi

Command>

Command Settings: Resolution

Plot OK

Menu*

Resolut.:

Resolut.:

Menu*

Plot

OnlineTimer:

ΟΚ

Menu Command>

Command : MHGL , GL 2

Command>

360dpi

720dpi

Command>

30 s

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the [Menu Up] key or [Menu Down] key.

Step 3

Press the **[ENTER]** key to confirm the "Command" menu and shift to the next level.

Step 4

Bring up the "Resolut." item by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to select "360dpi", "720dpi" or "300dpi".

Step 6

Press the **[ENTER]** key to confirm "Resolution" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 9

The permanent display is restored.

Command Settings: Online Timer

Plot OK

Menu*

Menu Command>

Command>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the [Menu Up] key or [Menu Down] key.

Step 3

Press the **[ENTER]** key to confirm the "Command" menu and shift to the next level.

Step 4

30 s

Bring up the "Online Timer" item by pressing the [Menu Up] key or [Menu Down] key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to select "Off", "10s", "10s", "20s", "30s", "40s", "50s", "60s", "90s", "120s", "150s", "180s", "210s", "240s", "270s" or "800s".

OnlineTimer: 270s

Command: MHGL, GL2

OnlineTimer:

Menu Command>

Step 6

Press the **[ENTER]** key to confirm "Online Timer" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Command Settings: Online Timer

Step 9

The permanent display is restored.

Plot OK

Command Settings: Overwrite

Р	ı.	0	t	0	κ
Г		U	L	U	n

k	Μ	е	n	u	*	Command:	>
		U	••	ч			

Command>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Command" menu by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 3

Press the **[ENTER]** key to confirm the "Command" menu and shift to the next level

Step 4

Bring up the "Overwrite" item by pressing the [Menu Up] key or [Menu Down] key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to select "Last" or "Mix".

Step 6

іх

Press the **[ENTER]** key to confirm "Overwrite" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 9

The permanent display is restored.

Menu*

Command: MHGL, GL2

Command:MHGL,GL2

Menu Command>

Plot OK

Function Settings: Ink Dry Time

Plot ΟΚ

Menu* Command>

Step 1

If a menu is to be specified, press the [MENU] key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.

"Function" menu and shift to the next

Step 3 Press the [ENTER] key to confirm the

level.

Step 4

Menu* Function>

InkDryTime: 60 s

Halftone: Speed Bring up the "Ink Dry Time" item by pressing the [Menu Up] key or [Menu Down] key. Step 5 Press the [VALUE +] or [VALUE -] key

to select "0s", "5s", "10s", "20s", "30s", "40s", "50s", "60s", "90s", "120s", "150s", "180s", "210s", "240s", "270s" or "300s", "6M", "7M", "8M", "9M", "10M", "15M", "20M", "25M", "30M", "35M", "40M", "45M", "50M", "55M", or "60M"

Step 6

Press the [ENTER] key to confirm "Ink Dry Time" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the [Back] key.

Function Settings: Ink Dry Time

Menu Function>

Plot OK

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again. *Step 9*

The permanent display is restored.

Function Settings: Halftone

Ctop 1

	Step 1
Plot OK	If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "Halftone" item by press- ing the [Menu Up] key or [Menu Down] key.
Halftone: Speed	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to set halftone to "Speed" diffusion, "Quality" diffusion or "Thin" diffusion.
Halftone: <mark>Quality</mark>	<i>Step 6</i> Press the [ENTER] key to confirm "Halftone" and shift to the next item to be set.
CMY->BLACK NO	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.
Plot OK	<i>Step 9</i> The permanent display is restored.

Function Settings: CMY-> Black

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	<i>Step 2</i> The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "CMY -> BLACK" item by pressing the [Menu Up] key or [Menu Down] key.
CMY->BLACK No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to set "No" or "Yes".
CMY->BLACK Yes	<i>Step 6</i> Press the [ENTER] key to confirm "CMY -> BLACK" and shift to the next item to be set.
Scale: 100%	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.
	Step 9

Plot OK

The permanent display is restored.

Function Settings: Scale

~

Plot OK	If a menu is to be specified, press the [MENU] key.
* Menu * Command >	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "Scale" item by pressing the [Menu Up] key or [Menu Down] key.
Scale: 100%	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to set scale magnification between "25%" and "400%".
Scale: 120%	<i>Step 6</i> Press the [ENTER] key to confirm "Scale" and shift to the next item to be set.
Mirror: Off	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] again.
	Step 9 The permanent display is restored.

Function Settings: Mirror

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	<i>Step 2</i> The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "Mirror" item by pressing the [Menu Up] key or [Menu Down] key.
Mirror: Off	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to set mirror to "Off" or "Y On".
Mirror: YOn	<i>Step 6</i> Press the [ENTER] key to confirm "Mirror" for the applicable print and shift to the next item to be set.
Direct.: Command	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.

Plot OK

The permanent display is restored.

Step 9

Function Settings: Direction

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	<i>Step 2</i> The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "Direct." item by pressing the [Menu Up] key or [Menu Down] key.
Direct.: Command	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Command" or "MAX-MIN".
Direct.: MAX-MIN	<i>Step 6</i> Press the [ENTER] key to confirm "Direction" and shift to the next item to be set.
CutPos.: Data	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.

Plot OK

Step 9

The permanent display is restored.

Function Settings: Cut Position

.

	Step 1
Plot OK	If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "Cut Pos." item by press- ing the [Menu Up] key or [Menu Down] key.
CutPos.: Data	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Data" or "Standard".
CutPos.:Standard	<i>Step 6</i> Press the [ENTER] key to confirm "Cut Position" and shift to the next item to be set.
MediaCut: Auto	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.
	Step 9

The permanent display is restored.

Plot

0 K

Function Settings: Media Cut

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level.
InkDryTime: 30s	<i>Step 4</i> Bring up the "Media cut" item by pressing the [Menu Up] key or [Menu Down] key.
MediaCut: Auto	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Off", "Auto" cut or "Manual" cut.
MediaCut: Manual	<i>Step 6</i> Press the [ENTER] key to confirm "Media Cut" and shift to the next item to be set.
Сору: 1	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Function>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.
Plot OK	Step 9 The permanent display is restored.

Function Settings: Copy

Step 1 If a menu is to be specified, press the Plot ΟΚ [MENU] key. Step 2 The key contents change to the purple Menu* Command> section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key. Step 3 Press the [ENETR] key to confirm the * Menu* Function> "Function" menu and shift to the next level. Step 4 Bring up the "Copy" item by pressing InkDryTime: 30 s the [Menu Up] key or [Menu Down] key. Step 5 Press the [VALUE +] or [VALUE -] key to set the number of copies between 1 Copy: "1" and "99". Step 6 Press the [ENTER] key to confirm the Сору: 15 number of copies of the applicable print and shift to the next item to be set. Step 7 InkDensityNormal If no other items are to be changed, press the [Back] key. Step 8 Do not press any other keys for 3 min-Menu* Function> utes or press [Back] key again. Step 9

The permanent display is restored.

Plot

ΟΚ

Function Settings: Ink Density

ΡΙ	ο	t	0	Κ

Menu*

ł	Μ	е	n	u	*	Command>	>

Step 1 If a me

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Function" menu by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 3 Function> Press the [ENTER] key to confirm the press the [ENTER] key to confirm the press the pr

InkDensity: Thin

Menu Function>

Plot OK

Step 4

level

Bring up the "Ink Density" item by pressing the **[Menu Up]** key or **[Menu Down]** key.

"Function" menu and shift to the next

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to set the density to "Normal", "Thin" or "Faint".

Step 6

Press the **[ENTER]** key to confirm "Ink Density" shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 9

The permanent display is restored.

Νo

Function Settings: Distance Adjustment

	<i>Step 1</i> If a menu is to be specified, press the
Plot OK	[MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Function" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Function>	<i>Step 3</i> Press the [ENTER] key to confirm the "Function" menu and shift to the next level
InkDryTime: 30s	<i>Step 4</i> Bring up the "Dist. Adj." item by press- ing the [Menu Up] key or [Menu Down] key.
Dist.Adj: No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to set "Change".
Dist.Adj: Change	<i>Step 6</i> Press the [ENTER] key to confirm the "Distance Adjustment" submenu and shift to the next level.
$\mathbf{D}_{2} \mathbf{f}_{2} \mathbf{X} \cdot 0 0 8 4 1 0 0$	Step 7 Press the [Menu Up] key or [Menu

be altered.

Down] key to shift to the panel for changing "Distance Adjustment X-axis Data". the value that is displayed becomes the currently set value. If no setting is to be made, it will be the width of the previously printed document. An underline shows the digit to

Function Settings: Distance Adjustment

00801.00

00801.00

00800.00

00800.00

00800.00

00800.20

X :

X :

X:

X :

X :

X :

Data

Data

Data

Real

Real

Real

Step 8

Set the value of the digit to be altered by pressing the **[VALUE +]** or **[VALUE -]** key.

Step 9

Continue by pressing the [Menu Up] key or [Menu Down] key to shift to another digit to be altered.

Step 9

Set the value of the digit to be altered by pressing the **[VALUE +]** or **[VALUE -]** key.

Step 10

Press **[ENTER]** to set "Distance Adjustment X-axis Data Value".

Step 11

Specify the X measurement from the printed document in order to display the "Distance Adjustment X-axis Data Value".

Press the **[Menu Up]** key or **[Menu Down]** key to shift to the "X-axis Data" digit that is to be altered.

Step 12

Set the value of the digit in the measured value by pressing the **[VALUE +]** or **[VALUE -]** key.

Step 13

Continue by pressing the **[Menu Up]** key or **[Menu Down]** key to shift to another digit to be altered.

Step 14

Set the value of the digit in the measured value by pressing the **[VALUE +]** or **[VALUE -]** key.

Function Settings: Distance Adjustment

Step 15

Press **[ENTER]** key to set "Distance Adjustment X-axis Measured Value".

Step 16

Distance Correction item is restored. If no other items are to be changed, press the **[Back]** key.

Do not press any other keys for 3 minutes or press [Back] key again

Step 18

The permanent display is restored

Plot OK

* Menu *

Centronics Settings: Mode

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Centronics" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Centro>	<i>Step 3</i> Press the [ENTER] key to confirm the "Centronics" menu and shift to the next level.
Mode: Centro	<i>Step 4</i> Bring up the "Mode" item by pressing the [Menu Up] key or [Menu Down] key.
Mode: Centro	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to switch to "Centro" or "Bi Centro".
Mode: BiCentro	<i>Step 6</i> Press the [ENTER] key to confirm "Mode" and shift to the next item to be set.
Timing: A-B	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
Menu Centro>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.
Plot OK	<i>Step 9</i> The permanent display is restored.

Centronics Settings: Timing

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
* Menu * Command >	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Centronics" menu by pressing the [Menu Up] key or [Menu Down] key.
* Menu* Centro>	<i>Step 3</i> Press the [ENTER] key to confirm the "Centronics" menu and shift to the next level.
Mode: Centro	<i>Step 4</i> Bring up the "Timing" item by pressing the [Menu Up] key or [Menu Down] key.
Timing: A-B	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to switch to "A-B" or "B-A".
Timing: B-A	<i>Step 6</i> Press the [ENTER] key to confirm "Timing" and shift to the next item to be set.
Mode: Centro	<i>Step 7</i> If no other items are to be changed, press the [Back] key.
* Menu* Centro>	<i>Step 8</i> Do not press any other keys for 3 min- utes or press [Back] key again.
Plot OK	Step 9 The permanent display is restored.

Network Setting: IP Address

Plot OK

Menu*

*	Μ	е	n	u	*	Command>	

->192.034.043.015

Network>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Network" menu by pressing the [Menu Up] key or [Menu Down] key.

Step 3

Press the **[ENTER]** key to confirm the "Network" menu and shift to the next level.

Step 4

Press the **[VALUE +]** or **[VALUE -]** key to set the first part of the IP address to a number between "001" and "255". (The first part identifies the country and 192 is usually used in a LAN environment.

Step 5

Press the **[ENTER]** key to confirm the first address and shift to the second address.

$$192 \rightarrow 034 043 015$$

> 1 9 2 . 0 3 4 . 0 4 3 . 0 1 5

Press the **[VALUE +]** or **[VALUE -]** key to set the second part of the IP address to a number between "001" and "255".

Step 7

Press the **[ENTER]** key to confirm the second address and shift to the third address.

Network Setting: IP Address

1 9 2 . 1 6 8 -> 0 4 3 . 0 1 5

Press the **[VALUE +]** or **[VALUE -]** key to set the third part of the IP address to a number between "001" and "255".

Step 9

Press the **[ENTER]** key to confirm the third address and shift to the fourth address.

Step 10

Press the **[VALUE +]** or **[VALUE -]** key to set the fourth part of the IP address to a number between "001" and "255".

Step 11

Press the **[ENTER]** key to confirm the fourth address and shift to the first address.

Step 12

Press the [Back] key.

-> 1 9 2 . 1 6 8 . 0 0 1 . 0 0 7

192.168.001->007

Plot OK

Step 13

Do not press any other keys for 3 minutes or press [Back] key again.

Step 14

The permanent display is restored.

Utility Settings: Error Display

Plot OK

Menu Command>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Utility" menu by pressing the **[Menu Up]** key or **[Menu Down]** key.

Press the **[ENTER]** key to confirm the "Utility" menu and shift to the next

ErrorDisplay: On

Menu Utility>

Plot OK

Step 4

level.

Step 3

Bring up the "Error Display" item by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to switch to "Off" or "On".

Step 6

Press the **[ENTER]** key to confirm "Error display" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press [Back] key again.

Step 9

The permanent display is restored.

Utility Settings: Initial: All

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
* Menu * Command >	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Utility" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Utility>	<i>Step 3</i> Press the [ENTER] key to confirm the "Utility" menu and shift to the next level.
ErrorDisplay:Off	<i>Step 4</i> Bring up the "Initial" item by pressing the [Menu Up] key or [Menu Down] key.
Initial: No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Yes".
Initial: Yes>	<i>Step 6</i> Press the [ENTER] key to confirm "Initial" and shift to "Initial All".
Initial All: No	<i>Step 7</i> Bring up the "Initial All" item by press- ing the [Menu Up] key or [Menu Down] key.
Initial All: No	<i>Step 8</i> Press the [VALUE +] or [VALUE -] key to specify "OK".
Initial AII: OK	<i>Step 9</i> Press the [ENTER] key to confirm

RJ-6000 Series USER GUIDE Functions Edition

to be set.

"Initial All" and shift to to the next item

Initia I Command No

Step 10

If no other items are to be changed, press the **[Back]** key.

Initial:

Step 11

Νo

If no other items are to be changed, press the **[Back]** key.

Step 12

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 13

The permanent display is restored.

Plot OK

Utility Settings: Initial: Command

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	<i>Step 2</i> The key contents change to the purple section on the outside of the control panel. Bring up the "Utility" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Utility>	<i>Step 3</i> Press the [ENTER] key to confirm the "Utility" menu and shift to the next level.
ErrorDisplay:Off	<i>Step 4</i> Bring up the "Initial" item by pressing the [Menu Up] key or [Menu Down] key.
Initial: No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Yes".
Initial: Yes>	<i>Step 6</i> Press the [ENTER] key to confirm "Initial" and shift to "Initial All".
Initial All: No	<i>Step 7</i> Bring up the "Initial Command" item by pressing the [Menu Up] key or [Menu Down] key.
Initial Command No	<i>Step 8</i> Press the [VALUE +] or [VALUE -] key to specify "OK".
	Step 9

Press the **[ENTER]** key to confirm "Initial Command" and shift to the next item to be set.

InitialCommandOK

Utility Settings: Initial: Command

Step 10

If no other items are to be changed, press the **[Back]** key.

Step 11 If no other items are to be changed, press the [Back] key.

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 13

The permanent display is restored.

Plot OK

Utility Settings: Initial: Function

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Utility" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Utility>	<i>Step 3</i> Press the [ENTER] key to confirm the "Utility" menu and shift to the next level.
ErrorDisplay:Off	<i>Step 4</i> Bring up the "Initial" item by pressing the [Menu Up] key or [Menu Down] key.
Initial: No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Yes".
Initial: Yes>	<i>Step 6</i> Press the [ENTER] key to confirm "Initial" and shift to "Initial All".
Initial All: No	<i>Step 7</i> Bring up the "Initial Functi." item by pressing the [Menu Up] key or [Menu Down] key.
Initial Functi. No	<i>Step 8</i> Press the [VALUE +] or [VALUE -] key to specify "OK".
	Step 9

Press the **[ENTER]** key to confirm "Initial Function" and shift to the next item to be set.

InitialFuncti.OK

Utility Settings: Initial: Function

Step 10

If no other items are to be changed, press the **[Back]** key.

Step 11 If no other items are to be changed, press the [Back] key.

Do not press any other keys for 3 minutes or press **[Back]** key again.

Step 13

The permanent display is restored.

Plot OK

Utility Settings: Initial: Centronics

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Utility" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Utility>	<i>Step 3</i> Press the [ENTER] key to confirm the "Utility" menu and shift to the next level.
ErrorDisplay:Off	<i>Step 4</i> Bring up the "Initial" item by pressing the [Menu Up] key or [Menu Down] key.
Initial: No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Yes".
Initial: Yes>	<i>Step 6</i> Press the [ENTER] key to confirm "Initial" and shift to "Initial All".
Initial All: No	<i>Step 7</i> Bring up the "Initial Centro" item by pressing the [Menu Up] key or [Menu Down] key.
InitialCentro:No	<i>Step 8</i> Press the [VALUE +] or [VALUE -] key to specify "OK".
	Step 9

Press the **[ENTER]** key to confirm "Initial Centronics" and shift to the next item to be set.

InitialCentro:OK

Utility Settings: Initial: Centronics

Initia INetwork No

Initial:

If no other items are to be changed, press the [Back] key.

Step 11

Νo

If no other items are to be changed, press the [Back] key.

Step 12

Do not press any other keys for 3 minutes or press [Back] key again.

Step 13

The permanent display is restored.

Plot ΟΚ

Utility Settings: Initial: Network

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
Menu Command>	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Utility" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Utility>	<i>Step 3</i> Press the [ENTER] key to confirm the "Utility" menu and shift to the next level.
ErrorDisplay:Off	<i>Step 4</i> Bring up the "Initial" item by pressing the [Menu Up] key or [Menu Down] key.
Initial: No	<i>Step 5</i> Press the [VALUE +] or [VALUE -] key to specify "Yes".
Initial: Yes>	<i>Step 6</i> Press the [ENTER] key to confirm "Initial" and shift to "Initial All".
Initial All: No	<i>Step 7</i> Bring up the "Initial Network" item by pressing the [Menu Up] key or [Menu Down] key.
InitialNetwork <mark>No</mark>	<i>Step 8</i> Press the [VALUE +] or [VALUE -] key to specify"OK".
	Step 9

Press the [ENTER] key to confirm "Initial Network" and shift to the next item to be set.

InitialNetworkOK

Utility Settings: Initial: Network

Step 10

If no other items are to be changed, press the **[Back]** key.

Step 11 If no other items are to be changed, press the [Back] key.

Step 12

Do not press any other keys for 3 minutes or press [Back] key again.

Step 13

The permanent display is restored.

Plot OK

Utility Settings: Dump

Plot OK

Menu Command>

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Utility" menu by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 3 Press the [ENTER] key to confirm the

Menu Utility>

Dump: AII

** Dump Miodie **

** Dump Mode **

Menu Utility>

level.

Step 4

Bring up the "Dump" item by pressing the **[Menu Up]** key or **[Menu Down]** key.

"Utility" menu and shift to the next

Step 5

Select "Start/End" or "All" by pressing the **[Menu Up]** key or **[Menu Down]** key.

Step 6

Press the **[ENTER]** key to confirm Dump mode.

Step 7

Send printing data from the host computer. print with Dump Mode.

Step 8

To terminate Dump Mode, press the **[CANCEL]** key.

Step 9

Do not press any other keys for 3 minutes or press **[Back]** key again.

Utility Settings: Dump

Step 10

The permanent display is restored.

Plot OK
Utility Settings: Head Wash

Plot OK	<i>Step 1</i> If a menu is to be specified, press the [MENU] key.
* Menu * Command >	Step 2 The key contents change to the purple section on the outside of the control panel. Bring up the "Utility" menu by pressing the [Menu Up] key or [Menu Down] key.
Menu Utility>	<i>Step 3</i> Press the [ENTER] key to confirm the "Utility" menu and shift to the next level.
ErrorDisplay:Off	<i>Step 4</i> Bring up the "Head Wash" item by pressing the [Menu Up] key or [Menu Down] key.
HeadWash: No	<i>Step 5</i> Select "Yes" by pressing the [Menu Up] key or [Menu Down] key.
HeadWash: Yes	<i>Step 6</i> Press the [ENTER] key to confirm "Head Wash".
Change Waste Ink	<i>Step 7</i> Remove the currently installed waste box and insert a new waste liquid box from the cleaning set.
ChangeTank? No	<i>Step 8</i> Select "Yes" by pressing the [Menu Up] key or [Menu Down] key.

ChangeTank? Yes

Step 9

Press the **[ENTER]** key to confirm waste box replaced.

Utility Settings: Head Wash

Remove Cartridge

Set Wash Cart

HeadWash

Remove Wash Cart

HeadWash

Change Waste Ink

ChangeTank?

ChangeTank? Yes

[65YMCK]NoCharge

Step 10

Remove the currently installed ink cartridges.

Step 11

Insert wash cartridges.

Step 12

Cleaning begins when wash cartridges are installed. Cleaning time is about 25 minutes.

Step 13

Remove the cleaning cartridges when head wash finishes and "Remove Wash Cart" appears.

Step 14

When the wash cartridges are removed, the operation to discharge cleaning liquid remaining inside the printer begins.

Step 15

Remove the waste box that was used for cleaning and insert another new waste liquid box from the cleaning set.

Step 16

Select "Yes" by pressing the [Menu Up] key or [Menu Down] key.

Step 17

Press the **[ENTER]** key to confirm waste box replaced.

Step 18

Ink filling begins automatically when ink cartridges are installed.

Νo

Plot OK

Step 19

When ink filling is finished, the permanent display is restored.

Utility Settings: Data Order

ΡΙ	ο	t	0	Κ

k	М	е	n	u	*	С	ο	mm	а	n	d	>	
		C	••	u		U U	0		a	••	u		-

Step 1

If a menu is to be specified, press the **[MENU]** key.

Step 2

The key contents change to the purple section on the outside of the control panel.

Bring up the "Utility" menu by pressing the **[Menu Up]** key or **[Menu Down]** key.

Press the [ENTER] key to confirm the

"Utility" menu and shift to the next

			_
Menu	*	Utilitv	>

DataOrder: 5Lm6Lc

Menu Utility>

Plot OK

Step 4

level.

Step 3

Bring up the "Data Order" item by pressing either [Menu Up] key or [Menu Down] key.

Step 5

Press the **[VALUE +]** or **[VALUE -]** key to select to "5Lc6Lm" or "5Lm6Lc".

Step 6

Press the **[ENTER]** key to confirm "Data Order" and shift to the next item to be set.

Step 7

If no other items are to be changed, press the **[Back]** key.

Step 8

Do not press any other keys for 3 minutes or press [Back] key again.

Step 9

The permanent display is restored.

Accuracy Adjustment Plot

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, an accuracy adjustment plot can be made with the following procedure.

-!IMPORTANT

Adj

• 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.

Plot OK

Accur.

76

Step 1

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

Step 2

The accuracy adjustment plot is printed automatically. Move to Step 3 when the accuracy adjustment plot is finished.



Plot

RJ-6000 Series USER GUIDE Functions Edition

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

5

4

6

4

PatternC:

Plot OK

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.

Accuracy Adjustment Plot

- The accuracy adjustment adjusts the left head repeatability printing position (pattern A) and the right head repeatability printing position (Pattern B) as well as aligning the printing position between the right head and the left head (pattern C).
- Pressing the [ENTER] key will confirm all adjustments from pattern A to pattern C. No adjustments will be made if the [ENTER] key is pressed before the end.
- If the cancel key is pressed during fine adjustment printing or it is interrupted by raising the hold lever, there will be no input display screen.

Installation of Options

In this section we explain about installing the optional network interface board and extended memory.

Network Interface Board Installation	PAGE 80
Memory Extension	PAGE 82

Network Interface Board Installation

The standard interface for the RJ-6000 Series printer has a parallel Centronics compatible interface as standard equipment. The network interface board, RJ-ETH13TX, for connection to EtherNet is also available as an option. The following procedure explains how to install the network interface board.

• The power to the RJ-6000 Series must be switched off and the power cord removed before the network interface board is installed.

Step 1

Undo the screws holding the silver colored interface plate on the left side of the board box below the printer and remove the interface plate.



Step 2

Insert the optional interface board into the slot as shown in the diagram. When the interface board has reached the back, push it again to ensure it is pushed fully back.



• Electronic components are susceptible to damage by static electricity. Remove static charge from your clothes and body by touching your hands to the board box before you touch the network interface board.

Step 3

Fasten the two interface mounting screws.

Step 4

Connect a Category 5 Ethernet cable compatible with both 10BASE-T and 100BASE-TX to the connector on the interface board. Connect the other end of the Ethernet cable to the 10BASE-T or 100BASE-TX network hub.



Memory Extension

Standard internal memory for the RJ-6000 Series printer is 8 MB + 32 MB (slot 1) but this can be extended by fitting an additional 16 MB (SIM16M) or 32 MB (SIM32M) memory chips (sold separately).

The following procedure explains how to install extended memory.



the printer. Undo the three screws holding the board box on the printer main unit and carefully lower the board box. Remove two thumb screws to reveal the memory slot.



- Electronic components are susceptible to damage by static electricity. Remove static charge from your clothes and body by touching your hands to the board box before you touch the additional memory chip.
- Dust in the slot may cause damage. Blow it out with an air duster before installing the additional memory.

Step 2

The optional memory chip to be added should be inserted in slot 2 on the lower right of the board with the nicked end of the chip at the right hand end of the slot.



Slot 1 (already in use)

Step 3

Return the board box to its original position.

Details of the Display

This section explains about displays while the printer is working, messages when an error has occurred and how to deal with them.

Printer Status Display	PAGE 86
Messaged Errors and Countermeasures	PAGE 88
Data error Display and Countermeasures	page 91
Command Error Display and Countermeasures	PAGE 92
Errors Rrequiring a Restart	PAGE 94

Printer Status Display

The normal operating condition of the printer is displayed.

Normal (when media is loaded) Plot OK	Data can be received and printed.				
Normal (when media is not loaded) Paper End	Media is not loaded or printing on a cut sheet is finished. Data can be received but can not be printed unless media is loaded. (See Basic Edition page 37)				
Leverup Lever Up	The hold lever is up. Put the hold lever down.				
Coveropen Cover Open	The cover is open. Close the cover.				
Coveropen, leverup Lever and Cover	The cover is open and the hold lever is up. Close the cover and lower the hold lever.				
Data reception in progress Receive [Port1]	Data is being received. Printing will begin after the data has been processed.				
Converting the data Convert [Port1]	Data is being processed. Printing will begin after the data has been processed.				
Printing in progress Printing	Processed data is being printed.				

Cleaning in progress

Cleaning

Media initialization in progress

ConfirmPaperKind

The print heads are being cleaned. Please wait. (See Basic Edition page 63)

Media is being initialized. Please wait.

Messaged Errors and Countermeasures

A messaged error impedes the operation of the printer. Sometimes an error is displayed and printing continues or printing may cease when an error is displayed. If printing stops, it will be reprinted when the cause of the error is removed.

When a messaged error occurs, the beeper will beep twice unless there is insufficient memory.

Capping position not set

No Cap Position	The capping position is not recorded The error will not be cancelled until t capping position is adjusted. Contact your local Mutoh dealer regarding ca ping position adjustment.					
Media recognition error						
Undefined Paper	An error has occurred during media detection. Either media smaller than the minimum size or larger than the maximum size was detected or the hold lever was up or a media jam occurred during media detection. This error also occurs if the media is not loaded in the correct posi- tion. Put the hold lever up and reload the media. (See Basic Edition page 38, 41)					
Media skew error						
Paper Slant	Roll media has slipped obliquely. Reload the media. (See Basic Edition page 41)					
Media replacement error						
Paper Cut Error	Roll media cutting failed. Cut the media, raise the hold lever and reload the media. (See Basic Edition page 41)					

Messaged Errors and Countermeasures

Media replacement request						
Remove Media	Media is loaded but the next process has failed. The lever was raised during printing or cutting and lowered again without the media having been removed. Remove the media.					
Roll media end						
End of Roll	The end of the media was detected when roll media was initialized. Replace the roll media. (See Basic Edition page 41)					
No waste box						
No Waste-InkTank	The waste box is not installed. Install a waste box containing a waste liquid absorbent sheet. (See Basic Edition page 84)					
Check waste box						
Check Waste Ink	The waste box is becoming full. Obtain a waste box from supplies and have it ready for replacement. (See Basic Edition page 84)					
Waste box full						
FullWastelnkTank	The waste box is full of waste liquid. Take out the waste box and replace the waste liquid absorbent sheet. Install a waste box that contains a waste liquid absorbent sheet. (See Basic Edition page 84)					
Request to insert ink cartridges of t	he same type					
Ink Change	The type of ink cartridges was changed (from dye to pigment or from pigment to dye) during cleaning or ink filling. Replace with original cartridge type. (See Basic Edition page 80)					

RJ-6000 Series USER GUIDE Functions Edition

Messaged Errors and Countermeasures

Request to insert exclusive or same	e type ink cartridges
Differ Ink Kind	Either ink cartridges other than the exclusive type or mixed dye and pig- ment ink cartridges have been installed. Make sure exclusive ink car- tridges of the same type (all dye or all pigment) are loaded. (See Basic Edition page 80)
Lowinkwarning [65YMCK]Near End	The remaining ink is low. Prepare a new ink cartridge of the color that is displayed. (See Basic Edition page 79)
Noink [65YMCK] Ink End	The ink cartridge of the color that is displayed is empty. Replace with a new cartridge. (See Basic Edition page 79)
1 to 5 ink cartridges missing [65YMC]Cartridge	The ink cartridge of the color that is displayed is not installed. Insert a car- tridge. (See Basic Edition page 79)
All ink cartridges missing Cartridge None	No ink cartridges are installed. Insert cartridges. (See Basic Edition page 79)
Insufficient memory NoMemorySIMM12MB	There was insufficient memory during data processing or printing. In this case the beeper gives three long beeps. Printing continues but the result can not be guaranteed. Since the required memory size is displayed, you should consider extending the memory. (See page 82)

Data Error Display and Countermeasures

Data errors occur when there is a fault in communication between the printer and the computer. There are three types of data error:

- Errors related to communication conditions
- Errors caused by faulty handshaking
- Escape sequence command format errors

The beeper gives three long beeps when a data error occurs.



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Network board detection error

Netw. Check Err

A board other than a prescribed network interface board has been installed. Replace with a prescribed network interface board. (See page 80)

Network board initialization error

Netw. Init. Err

An error occurred when the network interface board was installed. The network interface board may be faulty. Replace the network interface board. (See page 80)

Command Error Display and Countermeasures

Command errors occur during the processing of command data received from the computer.

If the printer's command set-up differs from the type of command data sent from the computer

If there is a grammatical error in the command data sent from the computer

The beeper gives three long beeps when a data error occurs.



- A command error may occur together with a data error (related to error code 115). In this case the communication settings should be checked.
- The command that caused the error may be shown enclosed in brackets in the data error message.

]

]

Undefined command error



Parameter error

MH02 Error[]

Numerical value error

MH03 Error[

Undefined character set

MH04 Error[

A command that is undefined by MH-GL command mode was analyzed. **(See pages 22, 33)**

An invalid number of parameters follow the command. **(See pages 22, 33)**

An invalid parameter follows the command. (See pages 22, 33)

A non-existent character set has been selected. (See pages 22, 33)

Command Error Display and Countermeasures

Position overflow

MH06 Error[

Buffer overflow

MH07Error[]

The polygon buffer or downloadable buffer has overflowed. (See pages 22, 33)

ାର୍ଲ୍ NOTE -

• In each case, first check that the command modes of the computer and printer are compatible. Refer to your computer manual for computer settings.

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Errors Requiring a Restart

Errors requiring a restart are fatal to the operation of the printer. The power to the printer must be switched off and the printer must be restarted. They are caused by an obstruction to the printer drive or damage related to a printer board.

When an error requiring restart occurs, the printer behaves as follows.

- (a) Drive power is shut down automatically.
- (b)All LEDs on the control panel flash and the beeper sounds continuously. The beeper will not stop until a key is pressed.
- (c)An error code and error name are displayed in the liquid crystal display section.

Errors Requiring Restart that Involve the Mechanical System

If an error has occurred in the mechanical system, remove the foreign object, paper scraps, etc. that are causing the obstruction and restart the printer.

Feed motor error

Carriage motor error

Feed encoder error

E069Err Xencoder

Carriage encoder error

E070Err Yencoder

Feed imposition timeout

E071Err Xtimeout

Carriage imposition timeout

E072Err Ytimeout

An error with the media feed motor has occurred.

An error with the carriage motor has occurred.

An error with the media feed encoder has occurred.

An error with the carriage encoder has occurred.

An error with the media feed imposition has occurred.

An error with the carriage imposition has occurred.

Errors Requiring a Restart Errors Requiring Restart that Involve the Mechanical System



Errors Requiring Restart that Involve the CPU System

Standard DRAM error

E001Err DRAM

Optional DRAM error

E002Err Opt.DRAM

Interrupt exception error

E016 CPUErr[00]

An access error has occurred in standard DRAM.

An access error has occurred in extended DRAM (option: sold separately).

An interrupt exception error has occurred in the CPU.

Command environment exception error

E016 CPUErr[02]

A command environment exception error has occurred in the CPU.

Data environment exception error

E016 CPUErr[03]

Address exception error

E016 CPUErr[04]

Address exception error

E016 CPUErr[05]

Bus exception error

E016 CPUErr[06]

Bus exception error

E016 CPUErr[07]

A data environment exception error has occurred in the CPU.

An address exception error has occurred in the CPU.

An address exception error has occurred in the CPU.

A bus exception error has occurred in the CPU.

A bus exception error has occurred in the CPU.

Errors Requiring a Restart Errors Requiring Restart that Involve the CPU System

System call exception error

	E 0	1	6	СР	UΕ	r	r	[0	8]	
--	-----	---	---	----	----	---	---	---	---	---	---	--

Break point exception error

E016 CPUErr[09]

A system call exception error has occurred in the CPU.

A break point exception error has occurred in the CPU.

Reserved command exception error

E016 CPUErr[10]

A reserved command exception error has occurred in the CPU.

Unusable co-processor exception error

E016 CPUErr[11]

An unusable co-processor exception error has occurred in the CPU.

Operation overflow exception error

E016 CPUErr[12]

Trap exception error

E016 CPUErr[13]

Watch exception error

E016 CPUErr[22]

Watchdog timeout error

କ୍ଷ NOTE ·

E016 CPUErr[32]

Abort error

E016 CPUErr[33]

An operation overflow exception error has occurred in the CPU.

A trap exception error has occurred in the CPU.

A watch exception error has occurred in the CPU.

A watchdog timeout error has occurred in the CPU.

An abort error has occurred in the CPU.

• In each case, switch off, wait 10 seconds and switch on.

Contents

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

Control Panel and Menus

This outlines the control panel for menu settings and explains menu levels.

When You Want to Do This

When you want to do something, this explains which function to use and provides page numbers for easier manual look-up.

Explanation of Functions Details of each function are explained and manual page numbers are provided for easier look-up.

How to Set Parameters Detailed explanation of setting parameters in each menu.

Installation of Options This explains how to fit the optional network interface board and extended memory.

Details of the Display

This section explains displays for normal operation as well as error messages and how to handle them.



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