

No.	00402
DATE	2003.3.5

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL:
FJ-600/500/400
FIRMWARE DISK
RFW-020

Current	>>	New
2.00		2.10

Contents

[bug fix] (Following problems have been fixed.)

1. 5~9 and A~F can not be set by changing the 14th digit (lower and the 3rd digit from left) of HEAD RANK in the [HEAD RANK] menu in the Service Mode.

Serial Number

FJ-600 : ZQ81437 and above
FJ-500 : ZQ81769 and above
FJ-400 : To be informed.

Rev.	Date	Record	Appro	Create
0	2003.3.5	First Edition	Inagaki	Masuda
1				
2				
3				

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL: FJ-600/500/400 FIRMWARE DISK RFW-020	Current 1.90	>>	New 2.00
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Contents

[change in spec.]

Flushing will be performed after printing every 1 pass.

This function can be enabled by switching the SYSTEM SW PAGE1 bit#4 (4th digit from right end) to 1 in the Service Mode. This change is the special countermeasure for the users who would like to add the flushing function of every 1 pass.

* Ink consumption is almost the same as the machines without the flushing function of every 1 pass.

* The throughput decreases approximately 17% in comparison to the machines without the flushing function of every 1 pass.

Moving distance of the Aging mode for Scanning direction is extended to the left end of the LM Guide.

It is possible to confirm whether the load of the LM Guide movement is big or not with all length of the LM Guide..

Following is the way of the detecting the load of the LM Guide.

Operation : Carry out the [SCAN] > [AGING] > [SERVICE MODE].

Judgement : When the Head Carriage turns back at the left end during the Aging, check out whether the Motor Error or turning off the Power Supply occur or not. When the Motor Error or turning off the Power Supply occur, the load of the LM Guide is too big and it is necessary to replace it.

It is enough to go and return 5 times when carrying out the Aging.

* You can use the Aging Mode as usual.

[bug fix] The following problems have been fixed.

1. Internal error of insufficient memory happens when printing from several hundreds pages to several thousand pages without the Power turned off. Internal Error number is 0061134.
2. The printing position is slightly shifted in the feeding direction on each printing mode with Pigment 4 color and Dye Ink 4 color.

(The printing position shifts maximum 1mm backward with the SUPER Mode.)

* This problem does not happen with Pigment 8 color and Pigment&Dye 4 color.

Serial Number

FJ-600 : ZP91027 and above

FJ-500 : ZP91549 and above

FJ-400 : ZP90235 and above

Rev.	Date	Record	Appro	Create
0	2002.6.14	First Edition	Inagaki	Tamaki
1				
2				
3				

No.	00171
DATE	2001.10.22

Version up Info. **Firmware Disk**

Roland DG Corporation / Service Dept.

MODEL:
FJ-600/500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.80		1.90

Contents

[bug fix]

1. The motor error that happens at the SETUP under the following conditions has been fixed.
(Motor error happens on some machines even with the initial movement of the Carriage after recovering from the sleep mode.)
 - a) Move the carriage by hands during the sleep mode.
 - b) Pull out the media and rotate the Grit during the sleep mode.
2. The high frequency noise when the printing is stopped by opening the front cover has been fixed by correcting the motor gain.

Serial Number

FJ-600 : ZP11419 and above
FJ-500 : ZP10206 and above
FJ-400 : ZP10688 and above

Rev.	Date	Record	Appro	Create
0	2001.10.22	First Edition	Inagaki	Tamaki
1				
2				
3				

***Version up Info.* Firmware Disk**

Roland DG Corporation / Service Dept.

MODEL:
FJ-600/500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.70		1.80

Contents

[change in spec.]

1. The range of the Test Pattern for HORIZONTAL and BI-DIR.DEFAULT and the default value for HORIZONTAL and BI-DIR.DEFAULT when carrying out the SYSTEM PARAMETER INITIALIZE have been changed as the result of the correct value on the produced machines.

[bug fix]

1. The problem that the display doesn't change to [SETUP SHEET] from [NOW PROCESSING] after filling ink in case of pressing the sub-power key for a long time when the power is turned on for the first time, or turned on after removing the ink has been fixed.
2. The problem that the System Report can not print when CMYK x 2 of Pigment inks or Dye inks are installed has been fixed to print it with the black ink in the right head.
3. The problem that the emergency stop works during the fill ink when the Maintenance cover is opened even if it is the service mode has been fixed.
4. The problem that the power sometimes becomes down when the carriage moves after entering the service mode has been fixed.

Serial Number

FJ-600 : ZO70395 and above
FJ-500 : ZO81349 and above
FJ-400 : Z**0196 and above

Rev.	Date	Record	Appro	Create
0	2001.6.5	First Edition	Inagaki	Kaneko
1				
2				
3				

No.	00070
DATE	2001.2.22

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL:
FJ-600/500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.60		1.70

Contents

[change in spec.]

1. Low temperature Error Check has been disabled when you are in the Service Mode.

[bug fix]

1. The problem that the power will be off automatically when performing the Cut Down Position Initialized has been fixed.
2. The problem that the LCD sometimes disappears due to the malfunction of the LCD Controller IC has been fixed by resetting the IC periodically.
There are cases when the display disappears for a moment during the malfunction of the IC.

Serial Number

FJ-600 : ZO30100 and above
FJ-500 : Z**1349 and above
FJ-400 : Z**0196 and above

Rev.	Date	Record	Appro	Create
0	2001.2.22	First Edition	Inagaki	Kevin
1				
2				
3				

***Version up Info.* Firmware Disk**

Roland DG Corporation / Service Dept.

MODEL:
FJ-600/500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.50		1.60

Contents

FJ-600 has been supported.

[change in spec. (In relation to support the FJ-600)]

1. The menu for selecting the Head to be used for vNORMAL/vSUPER with CMYK x 2 for both Pigment and Dye Inks has been added. This menu will be displayed only when selecting either "PIGMENT 4 COLOR" or "DYE 4 COLOR". Default setting is "TOG (Toggle)".
2. The time to allow the Head Carriage to be out of the Capping Station without any key operation has been changed to 30 seconds from 20 seconds considering the width of the machine.
3. The cleaning sequence has been changed in relation to the change to lower the Ink Cartridge Position as prevention against the ink dropping problem.
The cleaning sequence for the current models is also supported. It can be changed by turning the SYSTEM SW1 3 bit (SW1-3).

Important Note :

- * SYSTEM SW doesn't have to be re-adjusted for the current models when upgrading the firmware. All the factory settings will be saved even after the upgrade to ver.1.6.
 - * When mounting the Angled Brackets to the current models, it is necessary to change the SW1-3 to "1".
 - * When performing the Initialization or replace the main board for the current models without the Angled Bracket, it is necessary to re-set the SW1-3 to "0".
 - * The firmware below ver.1.5 cannot be used on the new machines with the lower Ink Cartridge Position.
4. The operation that involves long usage of the Pump Motor, such as Fill Ink, Pump Up, Powerful Cleaning has been limited to maximum 2 times within 30 minutes on FJ-600. FJ-500/400 is 3 time within 30 minutes.
 5. The message to empty the drain tank will be displayed during the Ink Type Changing sequence.
 6. The Test Pattern for FJ-600, Vertical Line, Fill Pattern, Bi-Dir Check and Micro Dot 2, has been added in the Service Mode.
 7. The 2 new printing modes, gNORMAL and sNORMAL, have been supported. These 2 modes can only be selected from the RCC or PJI command. It cannot be selected from the display menu.
 - * gNORMAL : 720x720, 8pass, printing only with the Small Fixed Sized Dots
 - * sNORMAL : 720x720, 16pass, printed only with the Small Fixed Sized Dots

Serial Number

To be informed.

Rev.	Date	Record	Appro	Create
0	2001.2.9	First Edition	Inagaki	Kevin
1				
2				
3				

No.	00040
DATE	2000.10.11

Version up Info. **Firmware Disk**

Roland DG Corporation / Service Dept.

MODEL:
FJ-500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.40		1.50

Contents

[change in spec.]

1. Service Menu>Test Pattern>VERTICAL LINES has been changed.
2. Service Menu>Test Pattern>BI-DIR CHECK has been changed.

[bug fix]

1. The problem that the machine stays in busy-status when sending the data after moving the media to its rear end with the cursor key has been fixed.
2. The problem to save the enormous amount for the History Menu>PowerON Time and also for the System Report when turning off the machine by the primary switch has been fixed.
3. The problem to cause internal Error : 00000007 when printing the 6 Color Data for FJ-50/40 and FJ-52/42 on the FJ-500 with 4 Color Mode has been fixed.

Serial Number

FJ-500 : ZO00644 and above
FJ-400 : ZO00166 and above

Rev.	Date	Record	Appro	Create
0	2000.10.11	First Edition	Inagaki	
1				
2				
3				

No.	FJ500/400-FMW-005
DATE	2000.9.19

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL: FJ-500/400 FIRMWARE DISK RFW-020	Current	>>	New
	1.30		1.40

Contents

[bug fix]

1. The problem that sometimes the Motor Error occurs when moving the Head Carriage using the cursor keys in scanning direction for setting up the Base Point has been fixed.
2. The problem that the maximum printing area sometime becomes 2mm shorter when using the "Print Area" menu to set the printing area has been fixed.

Serial Number

To be informed.

Rev.	Date	Record	Appro	Create
0	2000.9.19	First Edition	Inagaki	
1				
2				
3				

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL:
FJ-500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.20		1.30

Contents

[bug fix]

1. The problem that the media returns to its front edge after performing the long print and results in media jamming or printing problems has been fixed.

The problem happens when printing longer than the following length in each mode.

DRAFT & vNormal : Longer than 9353mm
 NORMAL & vSUPER : Longer than 7015mm
 SUPER : Longer than 4676mm
 vPHOTO : Longer than 3507mm

Serial Number

FJ-500 : ZN70152 ~ ZN70157, ZN70160, ZN70162 ~ ZN70163, ZN70166, ZN70166,
 ZN70169 ~ ZN70181, ZN70184, ZN70190 and above
 FJ-400 : ZN70106 and above

Rev.	Date	Record	Appro	Create
0	2000.8.23	First Edition	Inagaki	
1				
2				
3				

No.	FJ500-FMW-004
DATE	2000.8.23

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL:
FJ-500/400
FIRMWARE DISK
RFW-020

Current	>>	New
1.10		1.20

Contents

[bug fix]

1. The problem that the test pattern [FILL : LEFT + RIGHT] in the Service Mode can not be printed has been fixed.
2. The problem that the power shuts down when entering the Lock Assembly Adjustment Mode while moving the Head Carriage further beyond its stand-by position has been fixed.

Serial Number

FJ-500 : ZN70144 and above
FJ-400 : None from the factory

Rev.	Date	Record	Appro	Create
0	2000.8.23	First Edition	Inagaki	
1				
2				
3				

Version up Info. **Firmware Disk**

Roland DG Corporation / Service Dept.

MODEL: FJ-500/400 FIRMWARE DISK RFW-020	Current 1.00	>>	New 1.10
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Contents

[Change in spec.]

1. Default printing mode has been changed to NORMAL BIDIRECTION.
2. Test pattern for checking the micro dot 2 has been added in the Cleaning Key Menu of the Service Mode.
3. Test pattern in the Cleaning Menu has been changed so that the missing dots can be checked easily.
4. 4 Color Pigment mode for vNORMAL and vSUPER has been changed to use only 1 Head instead of 2 Heads to prevent banding.
5. Head to be used for the printing done in 4 Color Pigment mode for vNORMAL and vSUPER has been switched between 2 Heads every time the sub power switch is turned off and on.
6. Cleaning sequence for the Left Head when using Or and Gr has been changed so that the cleaning will be performed more efficiently.
7. Cleaning sequence for the Automatic Cleaning, which will be performed every time the power is turned on, has been changed for more stabled ink firing.
8. PRINT QUALITY Key menu can be finished by pressing the Left key.
9. The title of the SYSTEM/SERVICE REPORT has been changed to [Roland Hi-Fi JET PRO].

[bug fix]

1. The problem to cause Motor Error when performing the operation with the following sequence has been fixed. Setup in Service Mode -> Sensor Check -> Fan Stops -> Move the Head Carriage by hand -> Exit the menu and press the SETUP key.
2. The problem that the parameters for the MOTOR HOURS F and MOTOR HOURS S in the History menu were indicated in reverse has been fixed.
3. The problem that the parameters for the Motor hours (scan) and Motor hours (feed) in the Service Report were indicated in reverse has been fixed.
4. The problem that the motors move at its initialization because the gain is cleared too suddenly has been fixed.
5. The problem that the records of the Normal, Medium and Powerful Cleaning performed on the Right Head indicated in the Service Report were for the Left Head has been fixed.
6. The problem that the power shuts down when the POWER key is pressed during the Lock Assembly Adjustment Mode has been fixed.
7. The problem that the sub power switch can not be turned off when the Head Drying Error is caused by opening the Front Cover during the printing has been fixed.

Serial Number

FJ-500 : None from the factory
FJ-400 : None from the factory

Rev.	Date	Record	Appro	Create
0	2000.8.23	First Edition	Inagaki	
1				
2				
3				



No.	FJ500-FMW-001
DATE	

Version up Info. Firmware Disk

Roland DG Corporation / Service Dept.

MODEL:
FJ-500/400
FIRMWARE DISK
RFW-020

Current >> New
1.00

Contents

Initial version

Serial Number

FJ-500 : ZN50100 and above
FJ-400 : ZN50100 and above

Rev.	Date	Record	Appro	Create
0		First Edition		
1				
2				
3				