(G()	牊
(G(0)	ΙПΙ

Classification:

Model: Model C-P1

Subject: Printer Controller Firmware History

From: 1st Technical Support Sec. Service Support Dept. ☐ Troubleshooting

Mechanical

☐ Paper path

Other (

Technical Bulletin

	Date: 17-Sep-		-03	No.: RG094001
		Prepare	d by: T.S	hintani
ort Dept.				
☐ Part information				required
☐ Electrical		☐ Service manual revision		
☐ Transmit/receive			Retro	fit information

PAGE: 1/1

The following is the printer controller firmware history for the Model C-P1 (G094/G095 model).

Part Number	Version	Production
G0945920E	1.03	August '03 production
G0945920D	1.02	First mass production

Note: The above firmware is being used for USA, Europe and Asia models.

Descriptions of changes

Descriptions		
Regular upgrade: Improved management of energy saver function.	1.03	

RIGOH

Technical Bulletin

PAGE: 1/2

Model: Model C-P1 Date			ite: 26-Apr-04		No.: RG094002	
Subject: Engine Board			Prepared by:	: A. I	shiyama	
From: 1st Techni	cal Support Sec. Service Suppo	ort Dept.				
Classification:	Classification: Troubleshooting Part informa		ormat	ation 🖂 Action required		n required
		☐ Electric	al	□s	Servi	ce manual revision
	☐ Paper path	Transm	it/rec	eive 🗌 F	Retro	fit information
	☐ Other ()					

Important Note Regarding the G0965116 Engine Board

The G0965116 engine board was mistakenly registered with service parts, but is useable with a minor modification (detailed on pg. 2). In addition, the correct boards have been newly registered with service parts and are listed below:

• Old part number: G0965116

New part number: G0985102 for NA (G094/G095-11, -17)

G0985104 for EU, Asia (G094/G095-22, -24, -27)

Note: Refer to MB #G094003 for details about this P/N change.

Action in the Field

- If the old board above has not been ordered (none in stock), there is no need to take any action. Please simply use the new P/N listed above and in the MB whenever ordering the board.
- 2. If there are old boards in stock, perform the minor modification described below on the old stock.
- 3. If some old boards have already been installed in machines in the field, perform the minor modification below on the old boards at the next service visit.

Possible Symptoms with the Unmodified Old Boards

The following may occur when using the unmodified old boards, but please note that even in such cases the machine is well within product safety parameters.

- A PPM (print per minute) decrease from 25ppm to 20ppm, as the old board control configuration is for the Japan model.
- Fusing-related symptoms (e.g. poor fusing, paper curling), the machine may not satisfy certain EU regulations.
- Discrepancy between the paper size dial setting and the LCD display, which may result in a paper size error or paper jam.
- Garbled characters may be displayed when using display languages other than English.

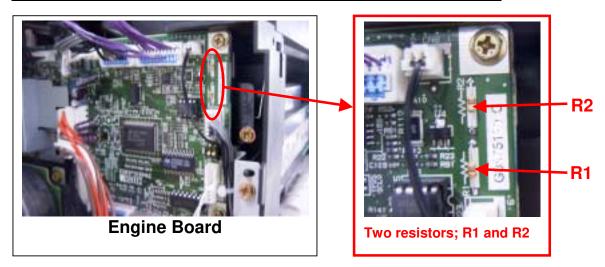
Difference Between the Old and New Boards

The old engine board (G0965116) contains two resistors, R1 and R2, but the new board for NA (G0985102) contains only R2 and the new board for EU/Asia (G0985104) contains only R1.

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Model: Model C-P1 Date: 26-Apr-04 No.: RG094002

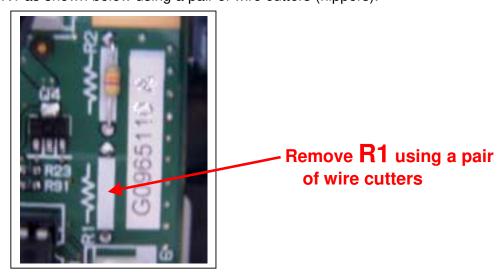
Minor Modification of old G0965116 Engine Board to its New Version



- 1. If the old engine board is already installed in the machine:
 - i) Open the front door.
 - ii) Remove the operation panel (2 hooks, 1 harness).
 - iii) Remove the rear cover.
 - iv) Remove the top cover (4 screws).
 - v) Remove the left cover (2 screws).

2. For NA version

Remove R1 as shown below using a pair of wire cutters (nippers).



For EU/Asia version

In the same manner, remove R2 using a pair of wire cutters.

PAGE: 1/1 Reissued: 7-May-04

Model: Model C-P1	Date: 17-Sep-03	No.: RG094001a

RTB Reissue

The items in **bold italics** have been added

Subject: Printer Controller Firmware History			Prepared by: A. Ishiyama	
From: 1st Tech. Support Sec. Service Support Dept.				
Classification:	Troubleshooting	☐ Part informat	tion	□ Action required
	☐ Mechanical	Electrical		☐ Service manual revision
	☐ Paper path	☐ Transmit/rec	eive	☐ Retrofit information
	Other ()			

The following is the printer controller firmware history for the Model C-P1 (G094/G095 models).

Part Number	Version	Production
G0945920F	1.04	November '03 production
G0945920E	1.03	August '03 production
G0945920D	1.02	First mass production

Note: The above firmware is being commonly used for all models.

Descriptions of changes

	Symptom Corrected	Version
<p. 1.="" 2.="" 3.<="" <sy="" th=""><th>nware modified to correct the following:</th><th>1.04</th></p.>	nware modified to correct the following:	1.04
Rec	gular upgrade: Improved management of energy saver function.	1.03

RIGOH

Technical Bulletin

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Reissued: 15-Apr-05

Model: General RTB	Date: 15-Nov-04	No.: RGene019a
--------------------	-----------------	----------------

RTB Correction

The items in bold italics have been corrected or added.

Subject: Remote Firmware Update			Prepared by: H. Someya		
From: 1st Tech. Support Sec. Service Support Dept.					
Classification:	Troubleshooting	☐ Part informat	tion	Action required	
	☐ Mechanical	☐ Electrical		☐ Service manual revision	
	☐ Paper path	☐ Transmit/rec	eive	☐ Retrofit information	
	⊠ Other ()				

1. OVERVIEW

The remote firmware update function (referred to as RFU) is used to update the firmware remotely. Service representatives do this over the network. Note that this information is intended for service representatives only and not for end users.

2. SUPPORTED MODELS AND FIRMWARE

The models supporting RFU and the types of firmware that can be updated are shown in Fig. 1:

"04A": Autumn 2004

Printers

Model	Group	System	Network	WebSys	Printer	Engine
Model J-P2	Before 04A	OK	OK		OK	OK
Model J-P2CF	Before 04A	OK	OK		OK	OK
Model K-P3	Before 04A	OK	OK	OK	OK	OK
Model C-P1	Before 04A			OK	OK	OK
Model J-P3	Before 04A	OK	OK	OK	OK	OK
Model PL-P1	Before 04A	OK	OK	OK	OK	NG
Model G-P1	04A and later	ок	ОК	ок	ок	ок
Model C-P2	04A and later	ок	ОК	ок	ОК	ОК
Model K-P4	04A and later	ок	ОК	ок	ОК	ОК

MFPs

Model	Group	System	Network	WebSys	Printer	PS	Engine
Model A-C3e/f	Before 04A	OK	OK	OK	OK	OK	OK
Model R-C3	Before 04A	OK	OK	OK	OK	OK	OK
Model K-C2	Before 04A	OK	OK	OK	OK	OK	OK
Model S-C2	Before 04A	OK	OK	OK	OK	OK	OK
Model B-C2e	Before 04A	OK	OK	OK	OK	OK	OK
Model J-C1	Before 04A	OK	OK	OK	OK	OK	OK
Model MT-C2	04A and later	ОК	ок	ОК	ОК	ОК	ОК

Fig. 1 Models supporting RFU

OK: Remote firmware update via the network is possible.

NG: Remote firmware update via the network is not possible.

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

The following models do not support RFU:

Printers:

Model K-P1/P2, Model J-P1, Model A-P3, Model U-P1, Model AR-P1, and not GW products

MFPs:

Model A-C2/C3, Model R-C2, Model U-C1, Model MT-C1, and not GW products

3. SYSTEM REQUIREMENTS

Network Interface:

- 10 Base-T or faster Ethernet LAN
- IEEE1284 (Centronics) (A setting must be changed in SP mode.)

Note: IEEE1284 does not support error recovery after a power loss.

For Recovery Mode:

 10 Base-T or faster Ethernet LAN – the note above says that only 1284 doesn't support it.

Protocols:

For RFU Mode & Recovery Mode:

• FTP (The port must be open)

Operating System:

- Windows Server 2003
- Windows XP
- Windows 2000
- Windows NT 4.0
- Windows 9x/Me
- Mac OS
- UNIX/Linux (Any version)

Note: RFU is available for any OS from which FTP is possible.

Unsupported environments:

- IPP
- SMB over TCP/IP
- Direct port
- AutoNet (169.254.x.x) with DHCP

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

Ftp settings and commands:

• User name (default):

Before 04A: rsysupdate

> 04A and later: admin

Password (default):

> Before 04A: password

> 04A and later: (no password)

Note: These default passwords are the same as the administrator passwords.

- Transfer mode: binary
- FTP commands supported:
 - binary (Transfer data in binary mode)
 - dir (List files and directories)
 - > put "file name"
 - get version.txt (Obtain the version.txt file and display its contents.)
 - get errlog.txt (Obtain the errlog.txt file and display its contents.)

4. STATUS OF UNUPDATEABLE MACHINE

If the printer is in any of the following statuses, RFU will not work.

- Print job in progress (copier, printer, fax, network)
- Scan job in progress (copier, scanner, fax)
- Receiving a print image from the network
- Operation panel is in use
- Incoming/Outgoing fax message
- SC condition

You can check the status of the target machine using WebImageMonitor or SmartDeviceMonitor.



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Model: General RTB Date: 15-Nov-04 No.: RGene019a

5. UPDATING PROCEDURE

Recommendation:

It is strongly recommended that RFU be performed on-site, to minimize the chances of a power-down during RFU.

5.1 Auto Rebooting

After receiving new firmware, the machine firmware is updated and the machine is automatically rebooted using the updated firmware. Fig.2 shows the kind of reboot required after the firmware is updated.

Printers

Model	System	Network	WebSys	Printer	Engine
Model J-P2	Auto	Auto		Auto	Auto
Model J-P2CF	Auto	Auto		Auto	Auto
Model K-P3	Αι	uto	Auto	Auto	Auto
Model C-P1	Auto		Auto	Auto	Auto
Model J-P3	Auto	Auto	Auto	Auto	Auto
Model PL-P1	Auto	Auto	Auto	Auto	N/A
Model G-P1	Auto	Auto	Auto	Auto	Auto
Model C-P2	Auto	Auto	Auto	Auto	Auto
Model K-P4	Auto	Auto	Auto	Auto	Auto

MFPs

Model	System	Network	WebSys	Printer	PS	Engine
Model A-C3e/f	Auto	Auto	Auto	Auto	Auto	Manual
Model R-C3	Auto	Auto	Auto	Auto	Auto	Manual
Model K-C2	Auto	Auto	Auto	Auto	Auto	Auto
Model S-C2	Auto	Auto	Auto	Auto	Auto	Auto
Model B-C2e	Auto	Auto	Auto	Auto	Auto	Auto
Model J-C1	Auto	Auto	Auto	Auto	Auto	Auto
Model MT-C2	Auto	Auto	Auto	Auto	Auto	Auto

Fig. 2 Reboot Method

Auto: Automatically rebooted after updating the firmware.

Manual: The machine must be manually rebooted after updating the firmware.



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Model: General RTB Date: 15-Nov-04 No.: RGene019a

5.2 Preparation

Before you update the firmware by RFU, carry out three items as shown below.

5.2.1 Checking the IP address

For a machine with static IP address:

- Search for the IP address using SmartDeviceMonitor for Admin or Web
- SmartDeviceMonitor.
- If the hostname of the machine is registered in a DNS server, use the nslookup command with the machines hostname. This can also be used for dynamic IP addresses if you are using DDNS.
- If the computer name of the machine is registered in a WINS server use the <......> command.

For a machine with a dynamic IP address:

- Print the config sheet or the SMC for the machine.
- Check the IP address in the DHCP server.

5.2.2 Firmware

 Please download firmware (*.rru or *.rfu files) from our support site and store it in a folder on a local PC to be used for RFU.

5.2.3 Checking the machine status

 Please check the status of the target machine using WebImageMonitor or SmartDeviceMonitor.

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

5.3 RFU for Windows

- 1. Open a command prompt.
 - o [Start]-[Program]-[Accessories]-[Command Prompt]
- 2. Logon to the machine using ftp.

```
C: > ftp xxx.xxx.xxx

Specify the machine's IP address

Connected to xxx.xxx.xxx.

220 (Product name) FTP server (1.00)ready.

User (IP address:(none)):
```

3. Enter the user name.

```
User (IP address:(none)):rsysupdate

331 Password required for rsysupdate.

Password:
```

4. Enter the password.

```
Password: XXXXXX

230 User rsysupdate logged in. Login successful.

ftp>
```

5. Enter "dir" to check that version.txt exists.

```
ftp> dir

200 PORT command successful.

150 Opening ASCII mode data connection for '/'.

-r--r--r-oot root 200 Jan 1 01:08 help

-r--r--r-oot root 200 Jan 1 01:08 info

-r--r--r-oot root 200 Jan 1 01:08 install

-r--r--r-oot root 200 Jan 1 01:08 prnlog

-r--r--r-oot root 200 Jan 1 01:08 stat

-r--r--r-oot root 200 Jan 1 01:08 syslog

-r--r--r-oot root 200 Jan 1 01:08 version.txt

-r--r--r-oot root 200 Jan 1 01:08 errlog.txt

226 Transfer complete.

ftp:372 bytes received in n.nn Seconds n.nn Kbytes/sec.

ftp>
```



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Model: General RTB	Date: 15-Nov-04	No.: RGene019a
--------------------	-----------------	----------------

6. Enter "get version.txt -" to check the machine's firmware version.

200 PORT command successful.							
150 Opening ASCI	150 Opening ASCII mode data connection for 'version.txt'.						
PartNo.	Module Name	Version	Module ID				
G0000000	os & copy	0.20	XXXXXX_copy				
G0000000	os & pf	0.20	XXXXXX_system				
G570xxxx	Onboard Scn	2.04	XXXXXX_scn				
G5705387A	OptDIMM Fax	1.07	XXXXXX_fax				
G5700000	printer	0.19	XXXXXX_printer				
G5705383D	Network DocBox	2.00	XXXXXX_netfile				
G0805920A	Network	0.71	XXXXXX_net				
G0805601	ENGINE	R0.14:06	XXXXXX_eplot				
226 Transfer complete.							
ftp>							

7. Enter "binary" to set the file transfer mode to binary.

```
ftp> binary
200 Type set to I.
ftp>
```

- 8. Navigate to the directory on your PC containing the file xxx.rru.
- 9. Transmit the firmware module file (*.rru or *.rfu) using the "put" command.

```
ftp> put xxx.rru

200 PORT command successful.

150 Opening BINARY mode data connection for 'xxx.rru'.

226 Transfer complete.

ftp:nnnnnn bytes sent in s.ss Seconds pp.pp Kbytes/sec.

ftp>
```

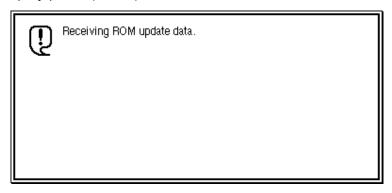
Note: Do not turn off the power of the machine while updating the firmware.

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

When the machine starts to receive the file, the following message appears on the machine's control panel and normal machine functions are disabled.

Display panel (MFPs)



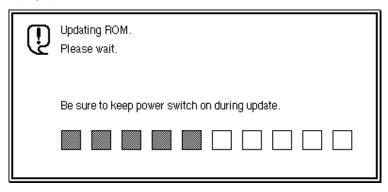
o Display (Printers)

ROM Update Receiving Data

10. Once the machine has received the entire firmware module file, the firmware update starts automatically.

The following message appears:

Display panel (MFPs)



o Display (Printers)

Updating

Note: If the controller firmware is being updated, this message is displayed in English only.

Model: General RTB

Technical Bulletin

Date: 15-Nov-04 No.: RGene019a

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- 11. After the firmware has been updated, the machine must restart. This may be automatic depending on the firmware and model.
- 12. Enter "bye" to exit ftp.

ftp> bye
C:∖>

- 13. Check the firmware version as shown in step 6.
- 14. Update all required firmware by repeating steps 1 to 13 as necessary.

5.4 RFU for UNIX(LINUX)

1. Logon to the machine using ftp.

host% ftp "ip address"

User ("ip address"): User Name (for Administrator)

230 User xxxx logged in.

331 Password required for rsysupdate.

Password: Password (for Administrator)

230 User xxxx logged in.

Connected to "ip address"

Remote system type is UNIX.

Using binary mode to transfer files.

2. Change to binary mode.

ftp> binary
200 Type set to I.

3. Send the firmware data (*.rru or *.rfu) to the machine.

ftp> put "File Name of Firmware"

200 PORT command successful.

150 Opening BINARY mode data connection for "File Name of Firmware".

226 Transfer complete.

ftp: nnnnnn bytes sent in s.ss Seconds pp.p Kbytes/sec.

ftp>

4. Close the ftp session.

ftp> bye
host%

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

5.5 Firmware Update for Centronics (IEEE1284)

Note:

- Firmware update via a centronics interface does not require a password.
- The only method of recovery available via a centronics interface is an IC or SD card.
- 1. Check the target firmware version by printing out the SMC sheet with SP5-990-4.
- 2. Set SP5-856-2 to a value of **1**. This will configure the machine for firmware update via the Centronics I/F.
- 3. Send the firmware to the target machine with the copy command.

C:\>copy/b "file name"

- 4. Cycle the machine's power (off then on).
- 5. Confirm the firmware version as shown in step 1.
- 6. Update all required firmware by repeating steps 1 to 5 as necessary.

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

5.6 Checking the Result of the Update

Check that the firmware has been updated.

Note:

- After transmitting the firmware file from the computer, it takes approximately 3 to 5 minutes for updating to complete and the machine to restart.
- To check the result, you need to logon to the machine again using ftp. However, you cannot log on during the update process, so you are unable to check that the update has completed until the machine has restarted.

If the update was successful

• Once the firmware has been updated successfully, the system automatically restarts using the new firmware.

After the restart, verify that the firmware has been updated to the new version. Check that the error code in the error data file (errlog.txt) is "0" by performing procedure 7.1 "Checking the error status" (below).

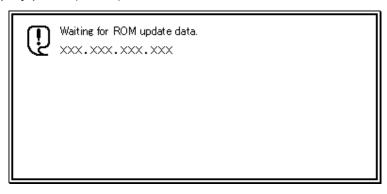
If an error occurs

• If an error occurs during the update, the system automatically restarts, the message shown below appears, and the machine waits to receive the firmware file again. If the update is interrupted by a power failure, the same thing happens once the power is restored.

Log on to the machine again using ftp and then resend the firmware file to the machine.

The following message appears for Type 1 firmware:

Display panel (MFPs)



Display (Printers)

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Chnical **B**ulletin Page: 12/15

Model: General RTB Date: 15-Nov-04 No.: RGene019a

6. ERROR RECOVERY

There are three ways to recover from a loss of power during RFU.

6.1 Recovery Procedure

There are three types for recovery after a power loss during RFU. (This will depend on the firmware and model). Procedures for types 1, 2 and 3 are on the next page.

Find the firmware and model you are downloading to, and <u>begin with the type</u> shown in the table below.

Recommendation:

As mentioned in *5. Updating Procedure*, it is strongly recommended that RFU be performed on-site, to minimize the chances of a power-down during RFU.

Printers

Model	System	Network	WebSys	Printer	Engine	Card Type
Model J-P2	Type1	Type1		Type1	Type1	IC
Model J-P2CF	Type1	Type1		Type1	Type1	IC
Model K-P3	Type1		Type1	Type1	Type1	IC
Model C-P1	Type1		Type1	Type1	Type1	IC
Model J-P3	Type1	Type3	Type3	Type3	Type1	SD
Model PL-P1	Type1	Type1	Type1	Type1	N/A	SD
Model G-P1	Type1	Type1	Type1	Type1	Type1	SD
Model C-P2	Type1	Type1	Type1	Type1	Type1	SD
Model K-P4	Type1	Type1	Type1	Type1	Type1	SD

MFPs

Model	System	Network	WebSys	Printer	PS	Engine	Card Type
Model A-C3e/f	Type2	Type2	Type2	Type2	Type2	Type1	IC
Model R-C3	Type2	Type2	Type2	Type2	Type2	Type1	IC
Model K-C2	Type1	Type1	Type1	Type3	Type3	Type3	SD
Model S-C2	Type1	Type1	Type1	Type3	Type3	Type1	SD
Model B-C2e	Type2	Type2	Type2	Type3	Type3	Type3	SD
Model J-C1	Type1	Type1	Type1	Type3	Type3	Type1	SD
Model MT-C2	Type2	Type2	Type1	Type1	Type1	Type1	SD

Fig. 3 Recovery Method

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

Important: Do not turn the main power off while you perform any of the procedures.

Procedure for type 1:

- 1. Restore power to the machine. The machine will wait for the operator to start the update.
- 2. Connect to the machine by FTP and upload the *.rru or *.rfu files.

Procedure for type 2:

- 1. Try 'Procedure for type 1'.
- 2. If this does not work, restore power to the machine.
- 3. Upload the firmware from an SD card or IC card.

Procedure for type 3:

- 1. Try 'Procedure for type 1'.
- 2. If this does not work, try 'Procedure for type 2'.
- 3. If this does not work, replace the internal SD card or circuit board.

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Model: General RTB Date: 15-Nov-04 No.: RGene019a

7. TROUBLESHOOTING

7.1 Checking the error status

You can check the error status using ftp.

Check whether an error occurred by viewing errlog.txt. This file is in the same directory as version.txt.

- 1. Logon to the machine using ftp.
- 2. Enter "dir" to check that errlog.txt exists.

```
ftp> dir

200 PORT command successful.

150 Opening ASCII mode data connection for '/'.

-r--r--r-- root root 200 Jan 1 01:08 help

-r--r--r-- root root 200 Jan 1 01:08 syslog

-r--r--r-- root root 200 Jan 1 01:08 version.txt

-r--r--r-- root root 200 Jan 1 01:08 errlog.txt

226 Transfer complete.

ftp: 191 bytes received in n.nn Seconds n.nn Kbytes/sec.

ftp>
```

3. Enter "get errlog.txt -" to check the error code.

```
ftp> get errlog.txt -

200 PORT command successful.

150 Opening ASCII mode data connection for 'errlog.txt'.

Module ID: xxxxxxx

Error Code: 51

226 Transfer complete.

ftp: 31 bytes received in n.nn Seconds n.nn Kbytes/sec.

ftp>
```

The information in errlog.txt consists of the module IDs of the firmware modules that caused errors and the corresponding error codes.

For what the error codes mean and how to respond to them, see section 7.2 (below).

4. Enter "bye" to exit ftp.

ftp> bye			
C:\>			



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Model: General RTB Date: 15-Nov-04 No.: RGene019a

7.2 Error Code List

Error Code	Description/Causes	Solutions
51	 The machine cannot be updated. The machine is processing a print job. The machine is processing a scan job. The machine is receiving image data from the network. The control panel is in use. The machine is sending or receiving a fax. The machine has detected a problem corresponding to an SC (service call) number (SC640 to SC649, SC670 to SC679, SC691, SC818, SC819, SC820 to SC839, and SC990). 	Check that the machine is idle, and then try updating again. If an SC number appears, contact your service representative.
52	 The file contains erroneous data. The data is too large or too small. The CRC (cyclic redundancy check) value and the checksum do not match. The firmware does not match the target machine. The firmware was not completely uploaded or is corrupt. 	Download the correct file from the website, and then try updating again.
53	An error occurred while updating. The machine is off.	If using a DNS server, the machine's IP address might have been changed. Check the IP address, and then try updating again.

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Technical Bulletin

Model: Model C-P1			Dat	e: 19-Apr-05	No.: RG094003
Subject: Controller NVRAM			Prepared by: A. Ishiyama		
From: 1st Technical Support Sec. Service Support Dept.					
Classification:	☐ Troubleshooting ☐ Part inform		orma	tion Action	required
	☐ Mechanical ☐ Electrica		al	☐ Servi	ce manual revision
	☐ Paper path	☐ Transm	it/rec	eive 🗌 Retro	fit information

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Important Note: Blank NVRAM Service Parts

Mechanical ☐ Paper path Other (

When you replace the controller NVRAM in the field, use the part shown below. This part is already listed in the Parts Catalog.

Model	Part No.	Part No. Description		Product Code	Parts Catalog Information		
				Code	Page	Index	
K-P1	14075335	RAM - STK12C68-P55	IC27	G056/G058	27, 29	119	
K-P2	K-P2 14075497 RAM – FM1808-120-P		IC54	G073	27, 29	124	
K-P2 140/549	14075457	KAW - FW 1000-120-P	1004	G074	31, 33	121	
K-P3	14075856	RAM - FM18L08-70-P	IC68	G091	29, 35	126	
K-P4	14076465	RAM:FM25L256-PG(REV.AG)	IC5	G116	40, 45	130	
C-P1 14075856	6 RAM - FM18L08-70-P	IC68	G094	31, 37	122		
	14073030	RAIN - FINITOLUO-70-P	1000	G095	41, 47	126	
C-P2b	14075856	RAM - FM18L08-70-P	IC68	G112	53, 57	121	
C-P2c	14076465	RAM:FM25L256-PG(REV.AG)	IC5	G113	60, 65	130	

- This is **completely blank** NVRAM. When you get this part from the Parts Center, it does not have a value of "0".
- After you install this NVRAM and turn the power OFF/ON, the machine will put a value of "0" inside the NVRAM.

IMPORTANT: When you install this NVRAM, make sure it is a completely new service part. DO NOT install the NVRAM if it was already used. If you do, machine problems can occur.

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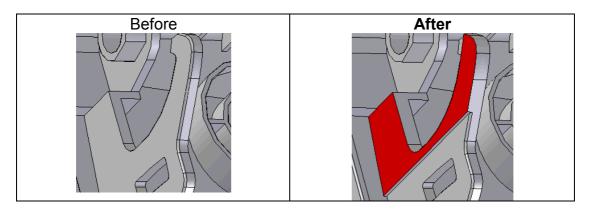
Technical Bulletin

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						_			
Model: Model C-P1 Da				te: 22-Jun-09	No.: RG094004				
Subject: Manua	l Feed Table Cover		Prepared by: Y.Murata						
From: 1st Tech.	Support Sec. Service Support								
Classification: ☐ Troubleshooting ☐ Pa		⊠ Part info	rma	tion	required				
	☐ Mechanical	☐ Electrical ☐		☐ Servic	ervice manual revision				
☐ Paper path		☐ Transmit/receive		eive	☐ Retrofit information				
	□ Other ()								

Old P/N	New P/N	Description		Int	Page	Index	Note
G0963272	G1103272	COVER: MANUAL FEED TABLE	1	0/0	3	10	-

Change: The shape of the hook was changed. **Reason:** To improve the durability of the hook.



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Model: C-P1			Dat	te: 18-Sep-09		No.: RG094005
Subject: SC code correction				Prepared by: Y. Murata		
From: 1st Tech. Support Sec. Service Support Dept.				•	,	
Classification:	lassification: 🛛 Troubleshooting 🔲 Part info		orma	tion	Action	required
☐ Mechanical ☐ Ele		☐ Electric	al			e manual revision
☐ Paper path ☐		☐ Transm	it/rec	eive 🗌	Retrof	it information
	☐ Other ()				Tier2	

Change/Reason: SC code correction.

1. Please delete the following SCs from the service manual. 640/641/800/820/821/822/823/827/828/829/835/836/837/838/862/991/999

2. Please add the following SCs to the service manual.

SC	Description	Cause / Required action			
860	HDD: Initialization error	HDD not initialized.			
	The controller detects that	Defective HDD.			
	the hard disk fails.	1. Reformat the HDD.			
		2. Replace the HDD.			
861	HDD: Reboot error	Loose connection.			
	The HDD does not become	Defective cables.			
	ready within 30 seconds	Defective HDD.			
	after the power is supplied	Defective controller.			
	to the HDD.	Check the connection between the HDD and			
		controller.			
		2. Check and replace the cables.			
		3. Replace the HDD.			
		4. Replace the controller board.			
920	Printer application error	Defective software			
	An error is detected in the	Unexpected hardware resource (e.g., memory			
	printer application program.	shortage)			
		1. Software defective; switch off/on, or change			
		the controller firmware if the problem is not			
		solved			
		2. Install an optional memory.			

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Model: C-P1				e: 24-Feb-10	No.: RG09	94006
Subject: Service Manual Correction				Prepared by: K. Nakano		
From: 2nd Overseas Tech Support Sec. 2nd PQM Dept						
Classification:	on: Troubleshooting Part info		ormat	tion	tion required	
	☐ Mechanical ☐ Electrical		al			evision
	☐ Paper path ☐ Transmit/		it/rec	eceive Retrofit information		n
	Other ()			⊠ Tie	er2	

Service Manual Correction

5.3.1 SERVICE MODE TABLE (pg. 5-3)

Corrected the fusing temperature range to "150~190".

Note: If you try to set the fusing temperature to a value higher than 190, the machine will not accept the setting.