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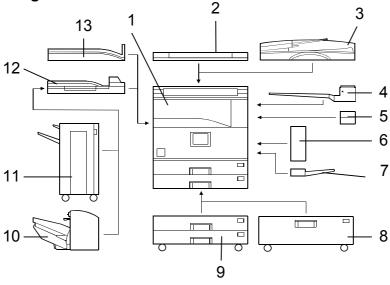
Model: Russian-	C2	6-Oct-01	No.: RB022002		
Subject: Major differences between Russian-C1 and Russian-C2				Prepared by:	S. Tomoe
From: Technical	Services Dept., GTS Division				
Classification:	☐ Troubleshooting	☐ Part inf	ormation	☐ Action	required
		☐ Electric	al	☐ Servic	ce manual revision
	☐ Paper path	Transm	it/receive	☐ Retrof	fit information
	⊠ Other ()				

This RTB outlines the major differences between the Russian-C1 and Russian-C2.

Overview:

The R-C2 is intended as the successor model to the R-C1. The mechanical components and design of these two models are nearly identical. In addition, the electrical system of the R-C2 employs GW architecture.

Machine Configuration:



Version	Item	Machine Code	No.	Comments
Copier	Copier(R-C2a)	B022	1	
	Copier(R-C2b)	B027	1	
	ARDF	B386	3	New option
	Platen Cover	B406	2	Common with Kir-C
	Paper Tray Unit-2 tray	B390	9	*See Note 2
	LCT	B391	8	*See Note 2
	1-bin Tray	B413	4	Color change
	Shift Tray	B459	13	Color change
	Duplex Unit	B414	6	*See Note 2
	By-pass Tray	B415	7	Color change
	Interchange Unit	B416	5	Color change
	Bridge Unit	B417	12	*See Note 2
	1000-sheet finisher	B408	11	New option



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Model: Russian-C2		Date:	26-Oct-01	No.: RB022002	
Version	Item	Machine Code	No.	Comments	
	500-sheet finisher	B442	10	Common with R	-P2, Color
				change	
	Key Counter Bracket	B452		Color change	
Fax	Fax Unit	B418			
	JBIG	A892		Common with S	tinger-C
	G3 interface unit	B448			
	G4 kit	B449			
	Hand set	B433		Color change	
Printer/	Printer unit	B461			
Scanner	Printer & Scanner unit	B453			
	HDD	B420			
	PS3	B462			
	User Account Enhance	B443		Common with A	-C2
	NIB	G335			
	IEEE 1394	G590		Common with A	-C2
	Memory – 32MB	G578		Common with A	-C2
	Memory – 64MB	G579		Common with A	-C2

Note:

- 1) The R-C2 has a new exterior color (same as A-C2).
- 2) The Drive Motor and Control Board for these peripherals have been changed so that the peripherals can be installed on the high cpm machine (R-C2c).



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Model: Russian-C2 Date: 26-Oct-01 No.: RB022002

Mainframe: R-C1 vs. R-C2

Unit	Item	Details
Exterior	The color has been	
	changed	
Operation	LCD size has been	Same size as the A-C2.
panel	expanded	
Drive	Fusing drive solenoid	To reduce warm-up time, this solenoid
section	has been added.	disengages the drive to the fusing unit during warm-up.
Electrical	The PCB layout has	The R-C2 uses GW architecture.
component	been changed	
Scanner	The CCD has been	The mechanical layout of the scanner unit has
	changed	been modified to accommodate this change.
Image	SP mode adjustments	Some SP adjustments have been deleted,
processing	,	some added, and others combined.
Laser	The LD driver board has	This board is designed to be used in the high
exposure	been changed	cpm machine (R-C2c).
Paper	Special paper lever	The control for this function has been changed
Feed	deleted	over to a software switch (op. panel).
Fusing Unit		Thin hot roller
	ZESM standards	2 fusing lamps
		4 thermostats
		2 thermistors
		The fusing temperature control and Energy
		Saver function are very similar to those of
		the A-C2.
PCU	New developer and new	The ID sensor pattern creation time has
	toner are used to meet	been changed so that it is performed at
	ZESM standards	power-on and at a specified interval (# copies).
		Toner density control is the same as for the R-C1.
		The cleaning pad for the charge roller has been changed to a brush roller type.



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Model: Russian-C2 Date: 26-Oct-01 No.: RB022002

Fax option: R-C2 vs. A-C2

The fax options are very similar. However, the following differences exist because of the GW architecture used in the R-C2:

- Installable units:

R-C2: 1 SG3 and 1 SiG4 (simultaneously).

A-C2: 2 SG3, or 1 SG3 and 1 SiG4 (simultaneously).

- Default unit for scanning resolution:

R-C2: Inches A-C2: mm

Printer option: R-C2 vs. A-C2

As with the fax, the printer options are very similar. However, the following differences exist because of the GW architecture used in the R-C2:

- The RPCS driver for the R-C2 -

The Overlay feature will soon be added to the Edit tab (per field requests). The HDD for the R-C2 is an option, but is required to use the following features with the printer. (Note that these features are always available with the A-C2, since the HDD comes standard).

- 1. Sample Print
- 2. Locked Print
- 3. Document Server
- 4. Macro/Font Download
- 5. Rotate Sort

Scanner option: . R-C2 vs. A-C2

1. HDD (A-C2: standard, R-C2: option):

Net file applications can be used with the R-C2 even if the HDD is not installed. However, they cannot with the A-C2.

2. Scanning Memory:

The total scanning memory on the R-C2 is less than on the A-C2, so there are greater limitations with respect to the maximum scannable size for each dpi setting.

RIGOH	Technical Bulletin						
Model: Russian-	·C2		Dat	e: 20-Dec-01	No.: RB022010		
Subject: Notice f	or Scanner Installation			Prepared by: S.T	omoe		
From: Technical	Services Dept., GTS Division						
Classification:	Troubleshooting	☐ Part inf	orma	tion Actio	n required		
	☐ Mechanical	☐ Electric	al	☐ Servi	ce manual revision		
	☐ Paper path	☐ Transm	it/rec	eive 🗌 Retro	fit information		

Due to a scanner system limitation, sometimes the Scanner SP modes are not set to the defaults when the scanner option is installed or when the scanner firmware is updated. This results in blank scanned images.

Other (

So, please do a memory clear for the scanner application (Copier SP5-801-009) when installing the scanner option or updating the scanner firmware.

Model: General (GW Models)				Date: 20-Dec-01 No.: RO		No.: RGene010	
Subject: Series Print Mode			Prepared by: K. Misugi		⁄lisugi		
From: Technical	Services Dept., GTS Division						
Classification:	☐ Troubleshooting	☐ Part inf	orma	tion	Action	required	
		☐ Electrical		☐ Electrical ☐ S		Service	ce manual revision
	☐ Paper path	Transm	nit/rec	eive	Retro	fit information	
	☐ Other ()						

In response to complaints from customers that the intervals between jobs are too long when sent in series, a new service switch has been added to improve performance.

New service switch:

Controller SP mode bit switch 2, bit 1
Series print mode On/Off

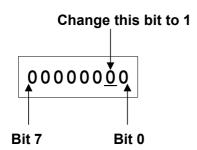
Off (default setting)

0: Off (default setting)

1: On

This switch has been added to the following GW models: K-P1 (Kir-P1), J-P1, A-P3 (Adonis-P3), and R-C2 (Russian-C2).

Enter the printer controller service mode, access the bit switch settings display, then change bit 1 of bit switch 2 to "1."



Important: Do not change any other settings. (The default setting is "0.")

Descriptions:

Series print mode Off (default):

The machine starts to feed paper for the next job <u>after</u> the last sheet of the previous job has fed out from the machine.

Series print mode On:

The machine starts to feed paper for the next job <u>before</u> the last sheet of the previous job is fed out.



PAGE: 2/2

Model: General (GW Models)

Date: 20-Dec-01

No.: RGene010

Conditions for use:

For the Series Print mode to become effective, jobs must be sent from the same PC, using the same PDL and interface (Ethernet, IEEE1284, IEEE1394).

Limitations:

Series Print mode cannot be used when:

- The above conditions are not met
- Stapling or punching is used
- A user code is used
- Color and black-and-white jobs are mixed (only for color machines)

Remarks:

When enabled, the machine handles the jobs waiting to be printed as a single job. When the Job Reset key on the operation panel is pressed, all jobs combined by this feature are cancelled.

Applied from the following software versions:

K-P1: Controller Ver. 1.11

J-P1: 1st mass production of P1b

A-P3: 1st mass production U-P1: 1st mass production R-C2: 1st mass production



PAGE: 1/

Model: Russian-C2 Date			e: 3-Oct-02	No.: RB022020	
Subject: Service	Manual Correction			Prepared by: S.	Tomoe
From: Technical	Services sec. Service Planning	Dept.			
Classification:	☐ Troubleshooting ☐ Mechanical ☐ Paper path ☐ Other ()	☐ Part info ☐ Electric ☐ Transm	al	 ☐ Servi	n required ce manual revision fit information

Please apply the following corrections to your Service Manuals.

1. Model R-C2 Service Manual

Troubleshooting 7.1.2 SC Code Description (pg. 7-5)

Please add the following SC code.

Code No.	77 177		Possible Causes
545	Α	Fusing lamp remains on After reaching the Ready temperature (stand-by temperature) during warm-up, the fusing lamp remains at full power for 10 seconds without the hot roller rotating.	Thermistor is out of position.

2. Model R-C2 Printer/Scanner Controllers Service Manual

Specifications

1.2 Scanner (pg. Spec-3)

Please revise the descriptions underlined below.

Image Storage Capacity:

Incorrect:

Number of originals per file: Maximum 160 pages

Correct:

Maximum 160 pages (without optional HDD)

Maximum 500 pages (with optional HDD) Number of originals per file:

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PAGE: 1/8

Model: General RTB		Date: 8-Nov-02		No.: RGene011		
Subject: Euro symbol not printed with PS driver				Prepared by: T. Itoh		
rom: Technical Services sec. Service Planning Dept.						
Classification:		☐ Part info	orma	tion	n required	
		☐ Electric	al	☐ Servi	ce manual revision	
	☐ Paper path	☐ Transm	it/rec	eive Retro	ofit information	
	☐ Other ()					

SYMPTOM

When printing with the PS driver, the Euro currency symbol is not printed out with 112 of 136 fonts, which are stored in the font ROM in GW-based products.

The following are GW-based products:

Model-K3, Model-K P2, Russian-C2, Adonis- C2, Model-A P3, Model-J P1b, Model-J CF Model-U P1, Model-U C1, Martini-C1.

CAUSE

The Euro currency symbol was not included in the font ROM.

SOLUTION

Temporary Solution (1)

A workaround for each operating system has been previously released on the FAQ page, and is included on pp. 5-8 below.

Temporary Solution (2)

Although the font ROM will be modified as a permanent solution (details below), before this can be applied, the controller firmware has been modified on the following GW-based products:

Product	Firmware Version	Product	Firmware Version
Model-K3	1.01 (Controller)	Model-J P1b	2.18 (Controller)
Model-K P2	1.06.1 (Controller)	Model-J CF	1.11 (Printer Application)
Russian-C2	2.03 (Printer Application)	Model-U P1	2.20 (Printer Application)
Adonis-C2	3.09 (Printer Application)	Model-U C1	1.22 (Printer Application)
Model-A P3	1.08 (Controller)	Martini-C1	1.01 (Printer Application)

Specifically, the Euro currency symbol has been added along with the "PS fonts download" feature, which allows the symbol to be downloaded to machine RAM. <u>Enable this feature</u> by changing the setting of Bit SW#3-0 to "1 (ON)" in SP mode (default: OFF).



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Model: General RTB Date: 8-Nov-02 No.: RGene011

Remarks for Temporary Solution 2:

1. Switching PDL to PS takes approximate 7 to 10 seconds.

When PS fonts download is enabled, the Euro symbol is temporarily downloaded to the machine RAM at the first PS printing job, and whenever the PDL is switched from RPCS or PCL to PS. The total download time is approximately 7 to 10 seconds. This is because once the data is downloaded, it will remain in the RAM until the PDL is switched or the power turned off.

2. Printing high image area documents at 1200 dpi may cause a memory overflow error in machines equipped only with 32MB of memory (ex. Model-K P2).

This is because the PS fonts download feature uses approximately 800kB, which can bring the amount of available memory close to capacity with the above printing conditions.

Workaround:

- Printing at 600dpi may prevent an overflow, even with just the 32MB memory installed.
- Changing the memory usage setting from "Frame Priority" to "Font Priority" may prevent an overflow.

Permanent Solution

Modification of the font ROM on the ROM DIMM or the Controller Board, from October '02, production or later (details differ depending on the model). Specifically, the Euro currency symbol has been added to the 112 fonts mentioned above.

Note:

- 1. When the new ROM DIMM or Controller Board is installed, it is <u>not</u> necessary to disable the PS fonts download feature (temporary solution).
- 2. An MB will be issued separately announcing the P/N change for the ROMM DIMM and Controller Boards, and cut-in serial number.

ROM DIMM and Controller Board P/N:

Model	Where the font ROM is soldered	Current P/N	Model	Where the font ROM is soldered	Current P/N
Model-K P2	Controller	G0735712	Model-J CF	ROM DIMM	G5706687
		G0745712	Model-U P1	ROM DIMM	G0705851
Adonis-C2	ROM DIMM	B3615117	Model-U C1	ROM DIMM	B5295117
		B3625118	1		B4635117
Model-A P3	Controller	G0656022	Martini-C1	ROM DIMM	G3395117
		G0656023	1		G3385117
Russian-C2	ROM DIMM	B4615117	Model-K3	Controller	B5165750
		B4535117			
Model-J P1b	ROM DIMM	G0776120			



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Model: General RTB Date: 8-Nov-02 No.: RGene011

Font Table

	Euro symbol is printed correctly.
	This is a symbol font, so no countermeasure is applied.
CUITETICV SVITIDOI COTTECTIV.	Both temporary and permanent solutions work to print out the Euro currency symbol correctly.

AlbertusMT	Helvetica	Univers
AlbertusMT-Italic	Helvetica-Bold	Univers-Bold
AlbertusMT-Light	Helvetica-BoldOblique	Univers-BoldExt
AntiqueOlive-Bold	Helvetica-Condensed	Univers-BoldExtObl
AntiqueOlive-Compact	Helvetica-Condensed-Bold	Univers-BoldOblique
AntiqueOlive-Italic	Helvetica-Condensed-BoldObl	Univers-Condensed
AntiqueOlive-Roman	Helvetica-Condensed-Oblique	Univers-CondensedBold
Apple-Chancery	Helvetica-Narrow	Univers-CondensedBoldOblique
Arial-BoldItalicMT	Helvetica-Narrow-Bold	Univers-CondensedOblique
Arial-BoldMT	Helvetica-Narrow-BoldOblique	Univers-Extended
Arial-ItalicMT	Helvetica-Narrow-Oblique	Univers-ExtendedObl
ArialMT	Helvetica-Oblique	Univers-Light
AvantGarde-Book	HoeflerText-Black	Univers-LightOblique
AvantGarde-BookOblique	HoeflerText-BlackItalic	Univers-Oblique
AvantGarde-Demi	HoeflerText-Italic	Wingdings-Regular
AvantGarde-DemiOblique	HoeflerText-Ornaments	ZapfChancery-MediumItalic
Bodoni	HoeflerText-Regular	ZapfDingbats
Bodoni-Bold	JoannaMT	
Bodoni-BoldItalic	JoannaMT-Bold	
Bodoni-Italic	JoannaMT-BoldItalic	
Bodoni-Poster	JoannaMT-Italic	
Bodoni-PosterCompressed	LetterGothic	
Bookman-Demi	LetterGothic-Bold	
Bookman-Demiltalic	LetterGothic-BoldSlanted	
Bookman-Light	LetterGothic-Slanted	
Bookman-LightItalic	LubalinGraph-Book	
Carta	LubalinGraph-BookOblique	
Chicago	LubalinGraph-Demi	
Clarendon	LubalinGraph-DemiOblique	
Clarendon-Bold	Marigold	
Clarendon-Light	MonaLisa-Recut	
CooperBlack	Monaco	
CooperBlack-Italic	NewCenturySchlbk-Bold	
Copperplate-ThirtyThreeBC	NewCenturySchlbk-BoldItalic	
Copperplate-ThirtyTwoBC	NewCenturySchlbk-Italic	
Coronet-Regular	NewCenturySchlbk-Roman	
Courier	NewYork	
Courier-Bold	Optima	
Courier-BoldOblique	Optima-Bold	
Courier-Oblique	Optima-BoldItalic	
Eurostile	Optima-Italic	
Eurostile-Bold	Oxford	
Eurostile-BoldExtendedTwo	Palatino-Bold	
Eurostile-ExtendedTwo	Palatino-BoldItalic	

RIGOH

Model: General RTB

Technical Bulletin

Date: 8-Nov-02 No.: RGene011

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Palatino-Italic
Palatino-Roman
StempelGaramond-Bold
StempelGaramond-BoldItalic
StempelGaramond-Italic
StempelGaramond-Roman
Symbol
Tekton
Times-Bold
Times-BoldItalic
Times-Italic
Times-Roman
TimesNewRomanPS-BoldItalicMT
TimesNewRomanPS-BoldMT
TimesNewRomanPS-ItalicMT
TimesNewRomanPSMT



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Model: General RTB Date: 8-Nov-02 No.: RGene011

Workaround Announced on the FAQ Page

Question:

Euro Fonts printing problem

Answer:

If Euro Fonts can't be printed by the PS driver, the following solutions may be effective.

Solution

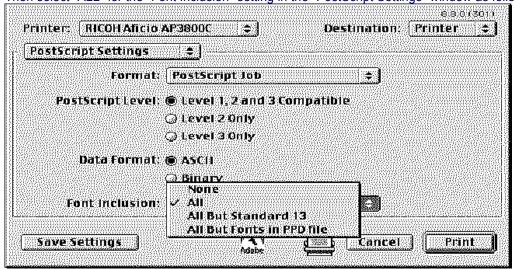
MacOS 9.x / 8.x

Use the AdobePS 8.8 printer driver.

Get the printer driver from the Adobe site on the web.

http://www.adobe.com/support/downloads/product.jsp?product=44&platform=Macintosh

Then select "ALL" for the "Font Inclusion" setting in the "PostScript Settings" window as follows.



Windows 95

Update Windows95 to "Euro Currency Support for Windows95".

You can get it from the following URL.

http://www.microsoft.com/windows95/downloads/contents/WURecommended/S_WUFeatured/W95EuroPatch/Default.asp

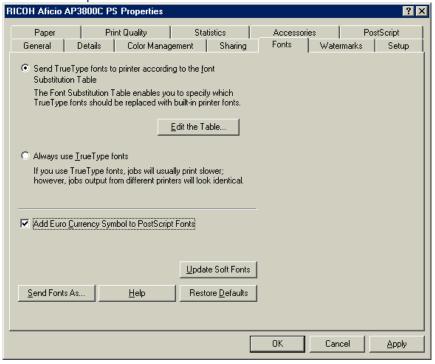
Then the "Add Euro Currency Symbol to PostScript Fonts" check box is available. Check "Add Euro Currency Symbol to PostScript Fonts". (Before update, the check box doesn't work.)



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Model: General RTB Date: 8-Nov-02 No.: RGene011

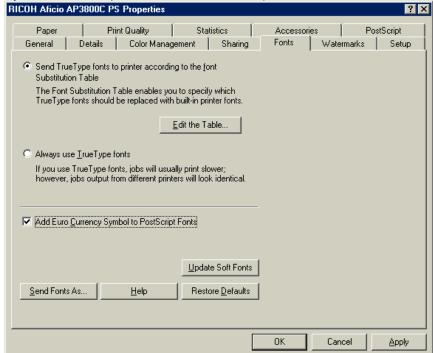
Windows95 after update



Windows 98 / ME / NT4.0 / XP

Check "Add Euro Currency Symbol to PostScript Fonts" .

Windows 98 / ME (Note: The AdobePS driver version 4.3.1 or later has "Add Euro Currency Symbol to PostScript Fonts" in the "Fonts" tab.)

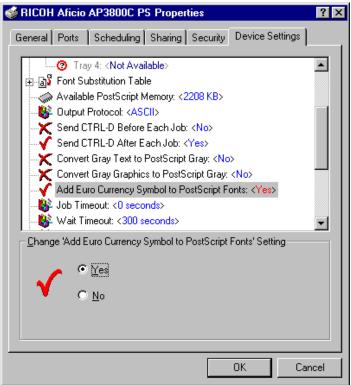




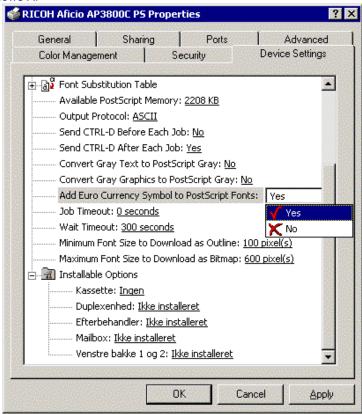
PAGE: 7/8

Model: General RTB Date: 8-Nov-02 No.: RGene011

Windows NT4.0



Windows XP





Model: General RTB Date: 8-Nov-02 No.: RGene011

Windows 2000

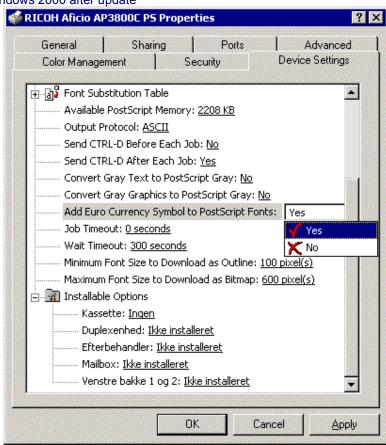
Update the printer driver to v5.5.2 or later.

You can get it from the printer driver v1.0.6 on the Adobe web site that includes the W2000 driver v 5.5.2.

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http://www.adobe.com/support/downloads/product.jsp?product=44&platform=Windows Then the "Add Euro Currency Symbol to PostScript Fonts" check box is displayed. Check "Add Euro Currency Symbol to PostScript Fonts".

Windows 2000 after update



RIGOH	T echni	ical B	ull	etin	PAGE: 1/1
Model: Russian-	C2		Dat	e: 20-Nov-03	No.: RB022026
Subject: NIB Inst	allation			Prepared by: S. T	omoe
From: 1st Tech. S	Support Sec. Service Support D	ept.			
Classification:	☐ Troubleshooting	☐ Part info	ormat	tion 🖂 Action	required
	☐ Mechanical	☐ Electric	al	☐ Service	ce manual revision

☐ Transmit/receive

Retrofit information

SYMPTOM

Some Printer and/or Scanner settings in the User Tools are not displayed after the NIB is installed, e.g. the Scanner main screen cannot be accessed, only the Printer (parallel) can be accessed, pinging is possible but Network browsing is not, a Telnet session cannot be established, the Scanner cannot be accessed in SP mode.

CAUSE

Excessive force is applied to the NIB connector when connecting the NIB to the controller board, causing a crack in the soldered connection of the connector pin. The excessive force may be applied in cases where:

1. The NIB connection point is not visible.

☐ Paper path

Other (

2. The NIB connector cannot be inserted directly, such as in cases where the Ethernet connector must be led through the opening in the bracket before the NIB connector can be attached.

Action required

At NIB installation, be sure to remove the controller board first, then install the NIB.