RIGOH	Technical	Bulletin		No. RTB-001
SUBJECT: Process Control Adju	ustment			DATE:November 30, '95 PAGE: 1 of 5
PREPARED BY: N. Kaiya CHECKED BY: M. Iwasa		FROM: 2nd Tec	hnical	Support Section
CLASSIFICATION: Action Required Troubleshooting Retrofit Information	Revision of s	service manual only	MODI PDC1	EL: 0E

We received some reports from the field that SC870~873 is indicated while performing TD check at installation. With such machines, the LD control data (SPD 315~318) is set to a high level on the production line. We investigated and concluded that this high LD control data itself is not a problem since copy quality is good and process control is stable. However, with such machines, problems such as mentioned before may occur when the current process control adjustment procedure is followed.

In order to solve the problem in the field and also to simplify the process control adjustment procedure, we have made the following changes. The new procedure is applicable to all of the NC8115 models.

Vmin Check for Model A105

It is not necessary to perform the Vmin check (SPD480). Instead, perform the self check (SPD525). This is because the LD power - ID sensor output curve is not stable in highlight areas and a Vmin check is likely to fail. The original intention of the Vmin check was to obtain an accurate Vtc based on the actual drum and ID sensor in use. However, based on our investigation, the difference in check results coming from different drums or ID sensors is quite small. Therefore, the process control will properly function with the Vmin set at the factory.

Service Manual Correction

- 1. Replace page 5-45 of the Service Manual with page 3/5 of this RTB.
- 2. Replace pages 5-46 to 5-51 of the Service Manual with pages 4/5 to 5/5 of this RTB.

TD Check for Model A105 - LD value setting

It is not necessary to change the LD value (SPD315 - 318) in the TD check procedure. Use the factory setting (at installation) or the previously used data (from the second TD check). The current adjustment procedure is designed to start with a low LD value, and to gradually increase it to find the suitable value. However, for machines which have the LD value set to a higher value in the production, abnormal Vsp may be detected if the LD value is set to level 4. With the new procedure, the adjustment will start with the factory set data (or the previously used data) and it will be easier to find the suitable LD value.



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Service Manual Correction

- 1. Skip the last item in the step A-3 of the TD check procedure for all colors (page 5-52 of the Service Manual).
- 2. Do not change the values in SPD 315'318 in step A-3 of the TD check procedure for 1 to 3 colors (pages 5-97,98 of the Service Manual).

TD Check for Model A105 - VL1

It is not necessary to perform the LD power control data adjustment using the VL1 value. This is because the machines which have high LD power value may have high VL1 value which may be out of the OK range.

Service Manual Correction

- 1. Remove steps C-7 to C-33 in the TD Check Procedure for All Colors (pages 5-66 to 5-71).
- 2. Remove steps C-7 to C-33 in the TD Check Procedures for 1 to 3 colors (pages 5-112 to 5-117).



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PROCESS CONTROL ADJUSTMENT CHART FOR MODEL A105

The following table indicates the tasks required, and their order, when you replace or clean the OPC drums, developers, development unit(s), ID sensor(s), and/or when installing a new machine.

	: For all four colors (4C)	▲: Only for the relevant colors (1 to 3C)	—: Don't do it
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\searrow	Maintenance items	OPC drum replacement		Developer replacement	
	Necessary tasks, in order	4 drums	1 to 3 drum(s)	4 colors	1 to 3 color(s)
1	Developer replacement (including dev. roller cleaning)		▲ ()		▲ ()
2	ID sensor cleaning		▲ ()		▲ ()
3	Drum replacement		▲ ()	_	—
4	Self check 1 to 4		▲ ()	_	—
5	TD check - All Colors				—
	TD check - 1 to 3 color(s)	_	▲ ()	_	▲ ()
	TD check - Manual	_		—	

\backslash	Maintenance items	Development	ID se	ensor	New machine
	Necessary tasks, in order 🚿	unit replacement	Replaced	Cleaned	installation
1	Developer replacement (including dev. roller cleaning)	▲ ()	▲ ()	—	•
2	ID sensor cleaning	▲ ()	▲ ()	▲ ()	
3	Drum replacement		▲ ()	_	
4	Self check 1 to 4	—	▲ ()		
5	TD check - All Colors	—	—		
	TD check - 1 to 3 color(s)	▲ ()	▲ ()		
	TD check - Manual	_	—	▲ ()	—

NOTE:

- Whenever OPC drums are replaced, replace the relevant color developers for the drums as a set.
- Do the necessary tasks from top to bottom, in order.
- When two or more maintenance items are done at one time, combine the necessary jobs for those maintenance items. Write the color symbols of each relevant color in the space provided in brackets

 ().
- TD check for all colors includes that for 1 to 3 colors or manual TD check. If both of these cases are marked, do only the TD check for all colors.



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SELF CHECK (1 to 4 Colors) FOR MODEL A105

CAUTION: Only change the data and perform the maintenance for the relevant colors.

NOTE: The self check (1 to 4 colors) procedure should be performed,

1. when the drum(s) (1 to 4 colors) are replaced.

2. when the ID sensor(s) (1 to 4 colors) are replaced.

From the following steps, only perform the maintenance for the relevant colors.

1. When the relevant drums or "the ID sensors and the drums" are replaced, clean the relevant development rollers and ID sensors, and replace the relevant developer.

2. Only set the SPD for the relevant color as follows:

- SPD#190 to H (SC#840 ~ #843 off mode)
- SPD#611 ~ #614 to 32 (ID Sensor LED Data) (SPD#611: Bk, #612: M, #613: Y, #614: C)
- SPD#110 ~ #113 (Pointer data monitor/change) to 22 (SPD#110: Bk, #111: M, #112: Y, #113: C)
- SPD#115 ~ #118 (Pointer lower limit data monitor/change) to 18 (SPD#115: Bk, #116: M, #117: Y, #118: C)

 Make 5 copies of the C-4 chart on A3/11" x 17" size or A4/81/2" x11" paper. (Do not make these copies in a continuous copy run. Make 5 single-copy runs.)

NOTE: If it is a solid copy, set the relevant charge corona unit in position.

- 4. Perform the relevant self check (SPD #525).
 - Key an appropriate value into SPD#525, referring to the following notes:
 - Press the Enter key while pressing the Start key to start.
- NOTE: Select relevant colors for the self check by changing the value of SPD#525 from "15" to another setting (1 to 15).

 1: Bk
 4: Y
 7: Bk+M+Y
 10: M+C
 13: Bk+Y+C

 2: M
 5: Bk+Y
 8: C
 11: Bk+M+C
 14: M+Y+C

 3: Bk+M
 6: M+Y
 9: Bk+C
 12: Y+C
 15: Bk+M+Y+C (all colors)

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- 5. After the copier stops, press the Clear key on the SP panel once.
- 6. Set SPD#190 to L (SC#840 ~ #843 detection).
- 7. Exit from the SPD mode.
- 8. Perform the TD check.

RIGOH	Technical Bulletin	No. RTB-002			
SUBJECT: Exposure Glass Rer	noval	DATE:November 30, '95 PAGE: 1 of 2			
PREPARED BY: N. Kaiya CHECKED BY: M. Iwasa	FROM: 2nd Te	chnical Support Section			
CLASSIFICATION: Action Required Troubleshooting Retrofit Information	Revision of service manual Information only Other	MODEL: PDC10E (-27 machines only)			
To comply with the CE mark standards, the edges of the exposure glass have been covered with copper plates. These plates will reduce the amount of electrical noise emitted from the copier. Due to this modification, the exposure glass removal procedure has been changed as follows. 1.Remove the top left cover (4 screws). 2.Remove the top left cover (4 screws). 3.Remove the screw covers (6 pcs.) from the right, left, and front scales. 3.Remove the right [A] and the left scale [B] (2 screws each). 4.Open the front covers and remove the toner tank unit (2 screws). 5.Remove the operation panel (5 screws). 6.Remove the front scale [C] (2 screws). 7.Remove the right spacer [D](8 screws). 8.Remove the front spacer [E](4 screws).					
NOTE: 1.The front scale is clamped to the exposure glass, so when reinstalling the exposure glass make sure that the front scale clamp is properly set on the glass.					
2.The right spacer, the front spacer, and the exposure glass are secured with M3x4 screws. Make sure not to use longer screws, since scanner movement may be obstructed.					
Cut-in serial number This modification has been implemented from the following serial number. A3585090014					



RIGOH	Technical Bulletin No. RTB-003			
SUBJECT: Interface Kit Type B CE Mark ComplianceDATE: December31, '9531, '95PAGE: 1 of 5				DATE: December 31, '95 PAGE: 1 of 5
PREPARED BY: N. Kaiya CHECKED BY:		FROM: 2nd Tec	chnical	Support Section
CLASSIFICATION:	 Revision of service man Information only Other 		MODEL: Interface Kit Type B for PDC - 10E	

To comply with the CE mark standards, the following modifications have been made to the Interface Kit Type B.

<Ferrite Core>

Two ferrite cores are packed with the kit. Please refer to the attached installation procedure of the interface kit for where to use these ferrite cores.

<CE Mark>

The CE mark is printed on the carton box. Please check this CE mark to distinguish new kits from old kits, since there is no serial number for this kit.

RIGOH

Technical Bulletin

No. RTB-003

DATE: December

SUBJECT: Interface Kit Type B CE Mark Compliance



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Technical Bulletin

No. RTB-003

SUBJECT: Interface Kit Type B CE Mark Compliance

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RIGOH **Technical Bulletin** No. RTB-003 SUBJECT: Interface Kit Type B CE Mark Compliance **DATE:** December 31, '95 PAGE: 5 of 5 [S] T [U] 21. Install the interface board cover [S] (4 screws - M4 x 6) and the PCB cover (11 screws). NOTE: Do not cut the dc harness with the cover. 22. Remove the toner tank (2 screws). 23. Remove the operation panel [T] (3 screws and 3 connectors). 24. Replace the 6 ROMs (IC31, 32, 33, 34, 35 and 36) on the ROM board [U]. (This board is connected to the Operation Panel Control Board [T]). See the below table. Location LT Version A4 Version IC31 A1055544 A1055542 IC32 A1055545 A1055543 IC33 A1055546 A1055546 IC34 A1055547 A1055547 IC35 A1055548 A1055548 A1055549 IC36 A1055549 NOTE: If the suffix of the copier ROM chips are later than ROM chip P/Ns in the kit, leave the chips as they are. 25. Re-assemble the machine. 26. Connect to the Fiery controller to the controller interface connector with the cable provided from EFI. 27. Adjust the γ correction data for printer and check the controller function according to the service manuals.

REVISED ON OCTOBER 31, '96

RIGO	ß	Technical	Bulletin		No. RTB-004
SUBJECT: Star	ndardization of	Toner and Develop	er		DATE: Sept. 30, '96 PAGE: 1 of 1
PREPARED BY CHECKED BY:	': N. Kaiva	, noue	FROM: 1st Field	1 Inforr	nation Dept. QAC
CLASSIFICATION:			MOD	EL: PDC - 10E	
The toner for F Lily.	PDC - 10E has	been standardized	with those develo	oped fo	or the new product,
The new toner has no effect of	is compatible v on performance	with the current ton or copy quality.	er. The mixture c	of new	and current toner
For the produc	t name of the n	iew toner, please r	efer to the table b	elow.	
Ricoh					
toner	black yellow magenta cyan	RICOH COLOR T RICOH COLOR T RICOH COLOR T RICOH COLOR T	ONER TYPE F B ONER TYPE F Y ONER TYPE F M ONER TYPE F C	LACK ELLOV IAGEN YAN	N ITA

RIGOH

Technical Bulletin

Model: PDC-10E			Dat	e: 15-May-98	No: 5
Subject: Standardization of Toner			Prepared by: N	.Kaiya	
From: QAC Field	Information Dept.				
Classification:	Troubleshooting	Part inf	orma	tion 🗌 Acti	on required
	Mechanical	Electric	al	Ser Ser	vice manual revision
	Paper path	🗌 Transm	nit/rec	eive 🗌 Reti	rofit information
	🖾 Other ()				

The toner for PDC-10E has been standardized with those developed for Lily.

The new toner is compatible with the current toner. Mixing new and current toner will have no effect on performance or copy quality.

For the product name of the new toner, please refer to the following table.

Brand	Naming	
Ricoh	Ricoh Color Toner Type J	Black
	Ricoh Color Toner Type J	Yellow
	Ricoh Color Toner Type J	Magenta
	Ricoh Color Toner Type J	Cyan