

Model: Mojito		Date: 14-Apr-00	No.: RA293001
Subject: Software Update for Mail Box CS360		Prepared by: A. Sasaki	
From: Technical Service Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input checked="" type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Background

The mail box (CS360) is currently an optional item for the SP5/SP5L (A229) and NAD 30S/30/40 (A230/A231/A232), and can also be installed on the Mojito (A292/A293). The A292/A293 has a faster process speed than the A229 and A230/A231/A232. New software (G909 0339 A) is necessary to allow the CS360 to work smoothly on the Mojito.

Interchangeability between Main Frame and CS360

The new software can also handle the A229 and A230/A231/A232 perfectly.

	Old CS360 Software	New CS360 Software
NAD 30S/30/40 (A230/A231/A232)	Workable	Workable
SP5/SP5L (A229)	Workable	Workable
Mojito (A292/A293)	Not workable	Workable

Cut-in Serial Numbers

Destination	Cut-in Serial Number
G909-15 (Savin, Gestetner)	2B20030001
G909-17 (Ricoh)	G8170020001
G909-22 (NRG)	BO00020001
G909-26 (Infotec)	From next production
G909-55 (Lanier)	L0340020001

Model: Mojito		Date: 19-May-00	No.: RA293002
Subject: LG kit (8 1/2"x14"paper size tray Installation procedure and parts catalog		Prepared by: F. Noguchi	
From: Technical Service Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

The LG Kit (paper tray for 8 1/2" x 14") has been registered as an option. Please refer to the relevant Service Manual and Parts Catalog information below.

The purpose of this kit is to make it possible to feed 8 1/2" x 14" sized paper from the LCT (A698: RT37). Please note that when the kit is installed, 8 1/2" x 14" is the only size that can be fed from the LCT.

Please add the following documents to your manuals:

1. Service Manual

- 1) Accessory check
- 2) Installation procedure

2. Parts Catalog

- 1) Parts catalog contents
- 2) B375 parts catalog and parts index

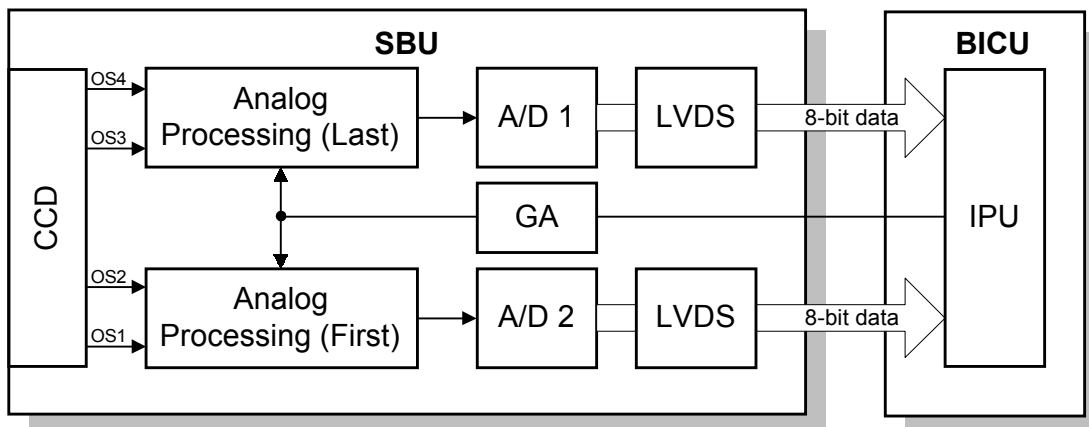
Model: Mojito		Date: 06-Jun-00	No.: RA293003
Subject: Service Manual		Prepared by: M. Tsuyuki	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Please correct your manual as follows:

Page 2-18

Please replace this page with the following explanation.

2.3.2 SBU



The CCD converts the light reflected from the original into an analog signal. The CCD line has 7,500 pixels and the resolution is 600 dpi (23.6 lines/mm).

The CCD has four output lines: OS1, OS2, OS3, and OS4. OS1 and OS2 are for the first half of the scan line (Non-operation side), and OS3 and OS4 are for the last half of the scan line (Operation side). There are two analog processing ICs; one handles the first half line (OS 1 and OS2) and the other handles the last half line (OS3 and OS4). The analog processing IC performs the following operations:

- 1) Combines the odd and even signals into one line signal.
- 2) Adjust the black reference level of each CCD output channel.
- 3) Amplifies the analog signal from the CCD.

After the above processing, the analog signals are converted to 8-bit signals by the A/D converter. This gives a value for each pixel on scale of 256 grades. Then, the two 8-bit signals are sent to the BICU board through the LVDS (Low Voltage Differential Signaling). The LVDS is a noise-resistant interface.

Model: Mojito

Date: 06-Jun-00

No.: RA293003

Page 4-46

SP5-009: Language Selection

Please delete a sentence “*After changing the setting for this SP mode, turn the main power switch off and on*”.

This SP mode is same function as “Language Priority” in UP mode.

Page 4-66

Please correct the pattern tables as follows.

Test Pattern Table (SP2902-2: Test Pattern Printing – IPU)

No.	Test Pattern	No.	Test Pattern
0	None	7	Vertical Stripes
1	Vertical Lines (1-dot)	8	Grayscale (Vertical)
2	Vertical Lines (2-dot)	9	Grayscale (Horizontal)
3	Horizontal Lines (1-dot)	10	Cross Pattern
4	Horizontal Lines (2-dot)	11	Argyle Pattern
5	Alternating Dot Pattern	12	Frequency (Horizontal)
6	Grid Pattern (1-dot)	13	Frequency (Vertical)

Test Pattern Table (SP2902-3: Test Pattern Printing – Printing)

No.	Test Pattern	No.	Test Pattern
0	None	13	16 Grayscale (Vertical)
1	Vertical Lines (1-dot)	14	16 Grayscale (Vertical/Horizontal)
2	Horizontal Lines (1-dot)	15	16 Grayscale (Grid)
3	Vertical Lines (2-dot)	16	Hound's Tooth Check (1-dot 600dpi) (Cross Stitch)
4	Horizontal Lines (2-dot)	17	Hound's Tooth Check (1-dot 400dpi) (Cross Stitch)
5	Grid Pattern (1-dot)	18	Horizontal Line (1-dot) (Reverse Order of LD1 and LD2)
6	Grid Pattern (1-dot pair)	19	Grid Pattern (1-dot) (Reverse Order of LD1 and LD2)
7	Independent Pattern	20	Grid Pattern (1-dot pair) (Reverse Order of LD1 and LD2)
8	Full Dot Pattern	21	Independent Pattern (1-dot) (Reverse Order of LD1 and LD2)
9	Black Band	22	Blank Page
10	Trimming Area	23	Grid Pattern (1-dot) (Overlaying Outside Data)
11	Argyle Pattern	24	Trimming Area (Overlaying Outside Data)
12	16 Grayscale (Horizontal)		

Page 4-78

“NOTE” after step 6:

Please delete SP7-007. SP7-007 is not used in this model.

Model: Mojito

Date: 06-Jun-00

No.: RA293003

Page 7-18

Please delete SC388. This number is not used in this model.

Laser Beam Pitch Adjustment

The “Laser Beam Pitch Adjustment” procedure is same as SP5. However, SP mode numbers are changed as follows.

SP2-902-2 no.12: IPU Test Pattern – Cross Stitch – 400dpi



SP2-902-3 no.17: Printing Test Pattern - Hound's Tooth Check (1-dot 400dpi) (Cross Stitch)

SP2-902-2 no.13: IPU Test Pattern – Cross Stitch – 600dpi



SP2-902-3 no.16: Printing Test Pattern - Hound's Tooth Check (1-dot 600dpi) (Cross Stitch)

Model: Mojito		Date: 08-Jun-00	No.: RA293004
Subject: Service Manual		Prepared by: M. Tsuyuki	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Please add the following SC descriptions to your service manuals.

Page 7-34

SC740: 1000-sheet finisher error in finisher area

- Definition – [B]

Note: When this SC is displayed, check SP7-902 (SC details). The first 2 digits indicate the type of error.

Example: 740 0100000000000000

01: Shutter movement error

- 1) The shutter position switch does not turn on within 1 second after the transport motor starts to turn in reverse.
- 2) The shutter sensor does not deactivate within 1 second after the transport motor starts to turn in reverse.
- 3) The shutter position switch is off when the shift tray safety switch is off.

- Possible causes -

- Transport motor defective
- Shutter position switch defective
- Shift tray safety switch defective

02: Exit motor error

- 1) After the exit motor turns on, the exit motor sensor does not send the proper signal to the finisher board.
- 2) The exit motor sensor does not send the clock signal to the finisher board for a certain period while the exit motor is on.

- Possible causes -

- Exit motor defective
- Exit motor sensor defective

Model: Mojito

Date: 08-Jun-00

No.: RA293004

03: Upper exit plate movement error

- 1) The upper exit guide 2 switch does not turn on within 1 s after the guide plate motor turns on.
- 2) The upper exit guide sensor does not activate within 1 s after the guide plate motor turns on.
- 3) The upper exit guide 2 switch does not turn on when the shift tray safety switch is off.

- Possible causes -

- Guide plate motor defective
- Upper exit guide 2 switch defective
- Upper exit guide sensor defective
- Shift tray safety switch defective

04: Jogger motor error

- 1) After the jogger motor turns on to move the jogger fence from its home position, the jogger HP sensor does not deactivate within 2 s.
- 2) After the jogger motor turns on to return the jogger fence to its home position, the jogger HP sensor does not activate within 2 s.

- Possible causes -

- Jogger motor defective
- Jogger HP sensor defective

05: Stapler motor error

- 1) After the stapler motor turns on to move the stapler unit from its home position, the stapler unit HP sensor does not deactivate within 4 s.
- 2) After the stapler motor turns on to return the stapler unit to its home position, the stapler unit HP sensor does not activate within 4 s.

- Possible causes -

- Stapler motor defective
- Stapler unit HP sensor defective

06: Staple hammer motor error

- 1) The staple hammer HP sensor does not deactivate within 0.5 s after the staple hammer motor turns on.
- 2) The staple hammer HP sensor does not activate within 0.5 s after the staple hammer motor turns on.

- Possible causes -

- Staple hammer motor defective
- Staple hammer HP sensor defective

07: Tray lift motor error

- 1) The tray lift motor does not stop within 15 s after being turned on.
- 2) The shift tray HP sensor does not activate within 15 s after the tray lift motor turns on.
- 3) The shift tray upper limit switch turns on while the shift tray is being raised.
- 4) Lift motor sensors 1 and 2 do not send the clock signals to the finisher board every 200 ms while the tray lift motor is on.

- Possible causes -

- Tray lift motor defective
- Lift motor sensor 1 defective
- Lift motor sensor 2 defective
- Shift tray HP sensor defective
- Shift tray upper limit switch defective

08: Shift tray height sensor error

- 1) Abnormal communication data between finisher board and shift tray height sensor.
- 2) No communication between finisher board and shift tray height sensor for a certain period.
- 3) The finisher board detects a connection error with the connector for the shift tray height sensor.
- 4) Adjustment error during shift tray height sensor adjustment.

- Possible causes -

- Shift tray height sensor defective
- Finisher board defective

Model: Mojito

Date: 08-Jun-00

No.: RA293004

09: Back-up RAM error

The check sum is abnormal when the main switch is turned on.

- Possible causes -

- Finisher board defective

0A: Communication error

Communication error between finisher board and booklet unit board.

- Possible causes -

- Finisher board defective
- Booklet unit board defective
- Poor cable connection

SC741: 1000-sheet finisher error in saddle stitching area

- Definition – [B]

Note: When this SC is displayed, check SP7-902 (SC details). The first 2 digits indicate the type of error.

Example: 741 0100000000000000

01: Positioning plate motor error

- 1) After the positioning plate motor turns on to move the positioning plate from its home position, the positioning plate HP sensor does not deactivate within 1.25 s.
- 2) After the positioning plate motor turns on to return the positioning plate to its home position, the positioning plate HP sensor does not activate within 1 s.

- Possible causes -

- Positioning plate motor defective
- Positioning plate HP sensor defective

Model: Mojito

Date: 08-Jun-00

No.: RA293004

02: Folder roller motor error

- 1) The folder roller motor sensor doesn't send a clock pulse to the booklet unit board within a certain period after the folder roller motor turns on.

- Possible causes -

- Folder roller motor defective
- Folder roller motor sensor defective

03: Shutter guide motor error

- 1) After the shutter guide motor turns on to move the shutter guide from its home position, the shutter guide HP sensor does not deactivate within 0.4 s.
- 2) After the shutter guide motor turns on to return the shutter guide to its home position, the shutter guide HP sensor does not activate within 1 s.

- Possible causes -

- Shutter guide motor defective
- Shutter guide HP sensor defective

04: Booklet jogger motor error

- 1) After the booklet jogger motor turns on to move the booklet jogger plate from its home position, the booklet jogger HP sensor does not deactivate within 0.5 s.
- 2) After the booklet jogger motor turns on to return the booklet jogger plate to its home position, the booklet jogger HP sensor does not activate within 1 s.

- Possible causes -

- Booklet jogger motor defective
- Booklet jogger HP sensor defective

Model: Mojito

Date: 08-Jun-00

No.: RA293004

05: Stapler motor error

- 1) The front staple hammer HP switch does not turn off within 0.5 s after the front stapler motor turns on.
- 2) The front staple hammer HP switch does not turn on within 0.5 s after the front stapler motor turns on during jam recovery.
- 3) The rear staple hammer HP switch does not turn off within 0.5 s after the rear stapler motor turns on.
- 4) The rear staple hammer HP switch does not turn on within 0.5 s after the rear stapler motor turns on during jam recovery.

- Possible causes -

- Front stapler motor defective
- Front staple hammer HP switch defective
- Rear stapler motor defective
- Rear staple hammer HP switch defective

06: Folder plate motor error

- 1) After the folder plate motor turns on to return the folder plate to its home position, the folder plate HP sensor does not activate within 0.3 s.
- 2) After the folder plate motor turns on to move the folder plate from its home position, the folder plate HP sensor does not deactivate within 0.3 s.
- 3) After the folder plate motor turns on to return the folder plate to its home position, the folder plate return sensor does not deactivate within 0.3 s.
- 4) The folder plate return sensor does not activate within 0.3 s after the HP sensor deactivates.
- 5) The pulse count from the folder plate motor sensor is lower than the target minimum.

- Possible causes -

- Folder plate motor defective
- Folder plate HP sensor defective
- Folder plate return sensor defective
- Folder plate motor sensor defective

Model: Mojito

Date: 08-Jun-00

No.: RA293004

07: Connector error

- 1) The connector of the shutter guide HP sensor is not connected.
- 2) The connector of the folder plate HP sensor is not connected.
- 3) The connector of the folder plate return sensor is not connected.

- Possible causes -

- Poor connection or no connection of the shutter guide HP sensor connector
- Poor connection or no connection of the folder plate HP sensor connector
- Poor connection or no connection of the folder plate return sensor connector

08: Switch error

- 1) When the booklet entrance guide sensor, lower door sensor, and booklet exit cover sensor are all activated (doors closed), the booklet entrance guide safety switch does not turn on within 1 s after a copy job or warm-up idling begins.
- 2) When the booklet entrance guide sensor, lower door sensor, and booklet exit cover sensor are all activated (doors closed), the lower door safety switch does not turn on within 1 s after a copy job or warm-up idling begins.
- 3) When the booklet entrance guide sensor, lower door sensor, and booklet exit cover sensor are all activated (doors closed), the booklet exit cover safety switch does not turn on within 1 s after a copy job or warm-up idling begins.

- Possible causes -

- Booklet entrance guide safety switch defective
- Lower door safety switch defective
- Booklet exit cover safety switch defective

Model: Mojito		Date: 09-Jun-00	No.: RA293005
Subject: BICU Firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input checked="" type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Modification history of the BICU firmware

As there are five types of the firmware, use the appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553C	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7653C	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3 (Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7653	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566
Version/Suffix					
3.1	C	C	-	-	-

Model: Mojito

Date: 09-Jun-00

No.: RA293005

Version 3.1

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3 (Lanier)
Part Number	A293 7553C	A293 7653C	A293 7564	A293 7565	A293 7566

Note:

- 1) The LCDC ROM A2935203C is required for BICU firmware version 3.1 (A293 7564, A293 7565 and A293 7566).
- 2) Version 3.1 requires the printer controller.

1. Language

The following items have been changed from English to the language selected:

1) Stamp Setting

Note: For Portuguese and Polish, the Stamp setting is still displayed in English.

The correction for this will be included in the next software update.

2) Language Priority button

2. A3/DLT Double Count corrected for copy counter and printer counter

When making A3/DLT copies, the copy and printer counters do not count up by 2, even if A3/DLT Double Count has been set.

Note: The total counter correctly counts up by 2.

3. Key counter in connect copy mode

When the key counter is removed from the machine during a copy job in connect copy mode, both copiers will stop and display "paper jam".

4. Slip-Sheet Mode

It is possible to select "Copy" or "Blank" from the operation panel in Slip-Sheet Mode.

5. Mailbox

The software has been modified so that the correct picture indicator is displayed when the mailbox door is open.

Note: The incorrect indicator was displayed when the Mailbox was the only option installed.

6. Conditions for reverse drum rotation

To reduce the load on the units around the drum, the cycle for reverse drum rotation has been changed as follows:

New: The drum is turned in reverse at the end of a copy job if the cumulative running time for the drum has reached or exceeded 4 minutes.

Old: The drum turns in reverse at the end of every copy job.

Model: Mojito

Date: 09-Jun-00

No.: RA293005

7. New SP Mode for B302 Finisher: SP6119

SP6119 has been added to enable the punch function for Thick Paper Mode.

Note:

1. Before enabling SP6119, please be sure that the customer is aware of the specific range of paper weights that can be used with this mode.
2. Do not enable this mode if the customer is using OHP transparencies.

Mode No.	Function			Setting
6119	Punch Function Enabled (Thick Paper)			
		*	Selects whether the punch function is enabled or not in thick paper mode.	No: Disable Yes: Enable

8. 8K/16K Paper Size (China/Taiwan)

8K/16K paper size can be fed from Trays 2 and 3 by selecting **3:CH** in SP5131 "Paper Size Type Selection".

Note: The factory default for SP5131 is 3:CH in models for China and Taiwan.

Mode No.	Function			Setting
5131	Paper Size Type Selection			
		*	Refer to the service manual.	0: JP 1: NA 2: EU 3: CH

9. Copy Settings preserved when entering Energy Saver Mode

The software has been modified so that the selected copy settings are not reset when the machine enters Energy Saver Mode.

10. New SP Mode added to enable Margin Per Original function (SP5924)

The settings for this mode are as follows:

Mode No.	Function			Setting
5924	Margin Per Original			
	1	Margin Per Original	* Selects whether or not Margin Per Original is enabled. No : Images are shifted with a binding margin during image writing. Yes : The margin is applied during scanning. NOTE: After Yes has been selected, the "per original" key is displayed. <i>This key must be pressed to activate the mode.</i>	No Yes
	2	Per Original Priority	* Selects whether or not Margin Per Original is enabled as the default. This setting is given priority over 5924-1.	On Off

Note: 1) When this mode is enabled, the ADF feed interval is longer.

2) Although it is possible to "adjust" the margins at the operation panel for Sample Copies, the adjustment itself is not applied to the samples.

3) The following modes cannot be used with Margin Per Original: Booklet, Magazine, Combine, Double copy, Image repeat.

Model: Mojito		Date: 27-Jun-00	No.: RA293006
Subject: NV-RAM Minus Counter Replacement Procedure		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Other ()		

NV-RAM replacement procedure

Case 1: NV-RAM is not defective.

1. Print out all SMC data lists (SP 5-990-1).
2. Upload the NVRAM data from the BICU to the flash memory card (SP 5-824).
3. Turn the main power switch off.
4. Replace the NV-RAM Minus Counter.
5. Perform memory all clear (SP 5-801).
5. Turn the main power switch off and on.
6. Calibrate the LCD touch panel.
7. Input the machine serial number (SP 5-811).
9. Download the NVRAM data from the flash memory card to the BICU (SP 5-825).
Or, referring to the SMC data lists, re-enter any value which has been changed from its factory setting.
10. Download the stamp data from the flash memory card (SP5-829).
11. Check the copy quality and the paper path and do any necessary adjustments.

Case 2: NV-RAM is defective

1. If possible, print out all SMC data lists (SP 5-990-1).
2. Turn the main power switch off.
3. Replace the NV-RAM Minus Counter.
4. Replace the developer because the TD initial data is missing if the NV-RAM is defective.
5. Perform memory all clear (SP 5-801).
6. Turn the main power switch off and on.
7. Calibrate the LCD touch panel.
8. Perform the TD initial setting (SP 2-963).
Note: Do this step before the machine automatically starts the Auto Process Control (within approximately 2 minutes after the main switch is turned on).
9. Input the machine serial number (SP 5-811).
10. Adjust the laser beam pitch (SP 2-109).
11. Perform the printer and scanner registration adjustments.
(See Replacement and Adjustment – Copy Image - Adjustments)
12. Referring to the SMC data lists, re-enter any value which has been changed from its factory setting.
13. Download the stamp data from the flash memory card (SP5-829).
14. Perform SP 3-001-2 (ID Sensor Initial Setting) and SP 4-911-1 (HDD media test).
Note: Be sure that the customer is aware that the HDD media test will delete copy server and stamp data on the hard drives.
15. Check the copy quality and the paper path and do any necessary adjustments.

Reissued: 06-Jul-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005a
---------------	-----------------	----------------

RTB Correction

Version 3.5 and 3.5.1 has been added.

Subject: BICU Firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input checked="" type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other ()		

Modification history of the BICU firmware – versions 3.5 and 3.5.1 only (for earlier versions, see previous RTBs).

As there are five types of the firmware, use an appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7653	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7653	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00

Reissued: 06-Jul-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005a
---------------	-----------------	----------------

Version 3.5.1

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553E	A293 7653E	A293 7564B	A293 7565B	A293 7566B

1. New Copy Feature and SP Mode (SP5971) Added

1) New Copy Feature: Enhance Density Mode

This feature has been added to ensure that image density does not drop while making multiple copies of originals with a high percentage of solid black areas.

To set the effective original density and number of copies for multi-copy mode, use SP5971 (see below).

To add the Enhance Density key to the display panel and to control the level, do the following procedure:

- (1) Press the User Tools/Counter key.
- (2) Press the Copy/Document Server Features Key.
- (3) Open General Features, screen 3/3.
- (4) Select one of the Shortcut Keys from F1 – F5.
- (5) Register the Enhance Density Key.
- (6) Open General Features, screen 1/3.
- (7) Select the setting for Enhance Density Level.
 - High: Vt+0.6
 - Medium: Vt+0.4 (default)
 - Low: Vt+0.2

2) New SP Mode: SP5971 (Enhance Copy Setting):

The following settings apply to Enhance Density Mode:

Mode No.	Function				Setting
5971	Enhance Copy Setting				
	2	Effective Original Density	*	Selects the effective original density level for multi-copy mode.	1 ~ 60% 1% step 4%
	3	Effective Multiple Copy	*	Selects the number of multiple copies for multi-copy mode.	1 ~ 50sheets 1 sheet step 3 sheets

2. Paper jam in finisher (B302) + Printer Mode

Depending on the printer mode settings, jams can occur in the finisher when continuous print jobs are shifted alternately between the proof and shift trays.

The machine cannot switch fast enough between the two paper paths in these cases. The interval between jobs has been slightly increased to allow the machine enough time to make the switch.

3. Fusing Unit Fan Motor Off-Timing Change

To ensure that hot air around the toner bottle is removed properly, the fusing unit fan motor will be kept on whenever 24V is being supplied.

Therefore, it will turn off only when the main switch or operation switch is turned off or when the machine is shut down by the Auto-Off function.

4. Wording Correction

Some display language words and phrases have been corrected/improved.

Reissued: 06-Jul-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005a
---------------	-----------------	----------------

Version 3.5

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553D	A293 7653D	A293 7564A	A293 7565A	A293 7566A

Note: This is information only, as version3.5 was not released to the field and was not used in any product machine.

Model: Mojito		Date: 04-Jul-00	No.: RA293007
Subject: SC740 and Jam indicator turns on.		Prepared by: M. Tsuyuki	
From: Technical Services Dept., GTS Division			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Some booklet finishers (A763) may exhibit the following problem. Please check the machine at installation or at the next customer site visit.

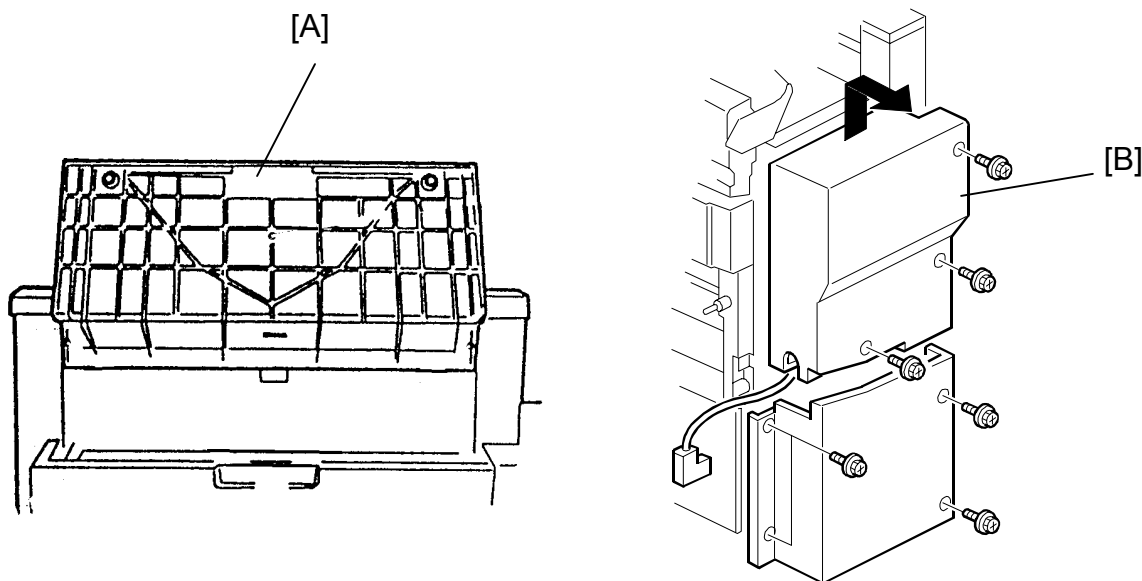
SYMPTOM

When making copies in staple mode, an IC on the finisher board shorts and SC740 is displayed. After the main switch is turn off and on, a jam is indicated.

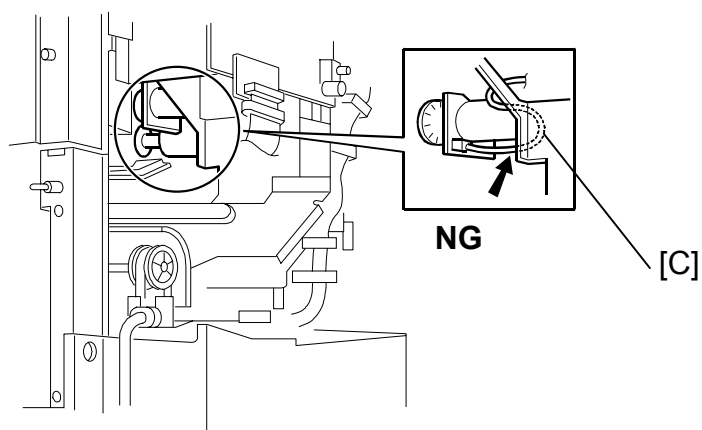
CAUSE

The cable of the guide plate motor is caught between the guide plate unit and frame. In the worst case, the cable covering peels off and the +24V line is shorted to ground. These two factors combine to cause the finisher board to be damaged.

ACTION

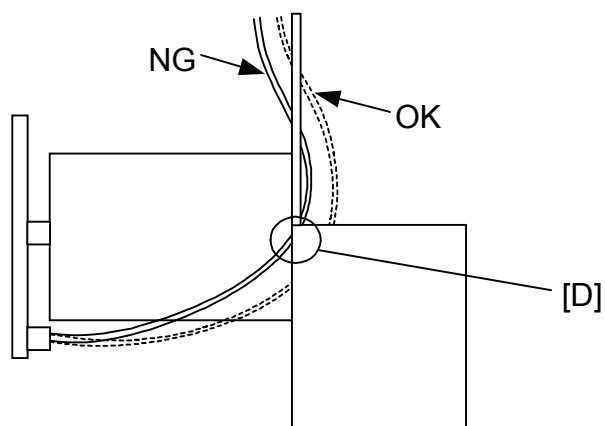


1. Hold up the proof tray and open the top cover [A].
2. Unhook the upper rear cover [B] and remove it (3 screws).

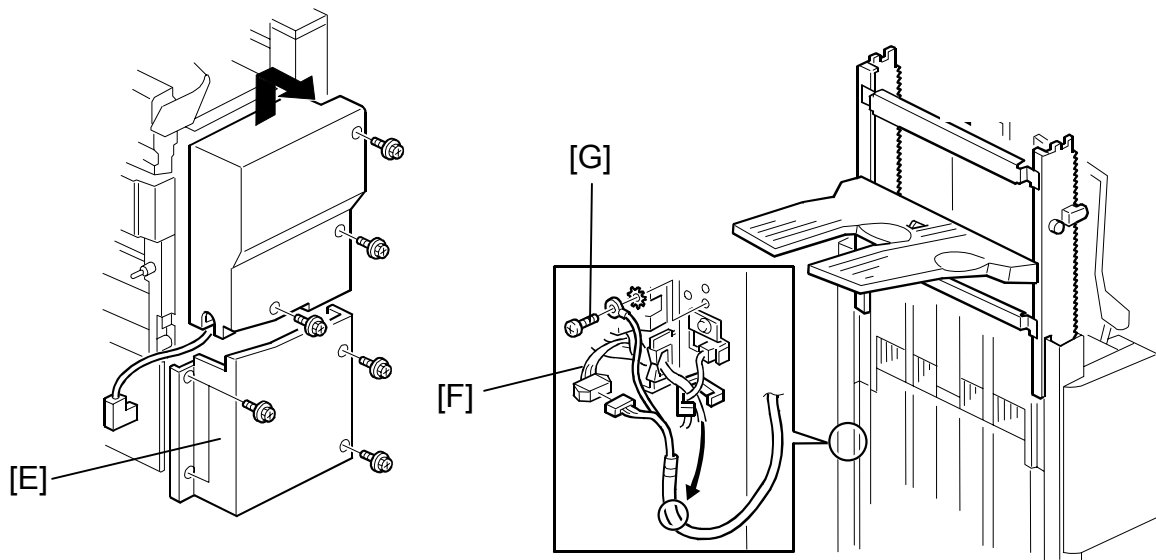


3. Check to see if the cable [C] is caught.

4. If it is not caught, the finisher is Ok. If it is caught, go on to the next step.

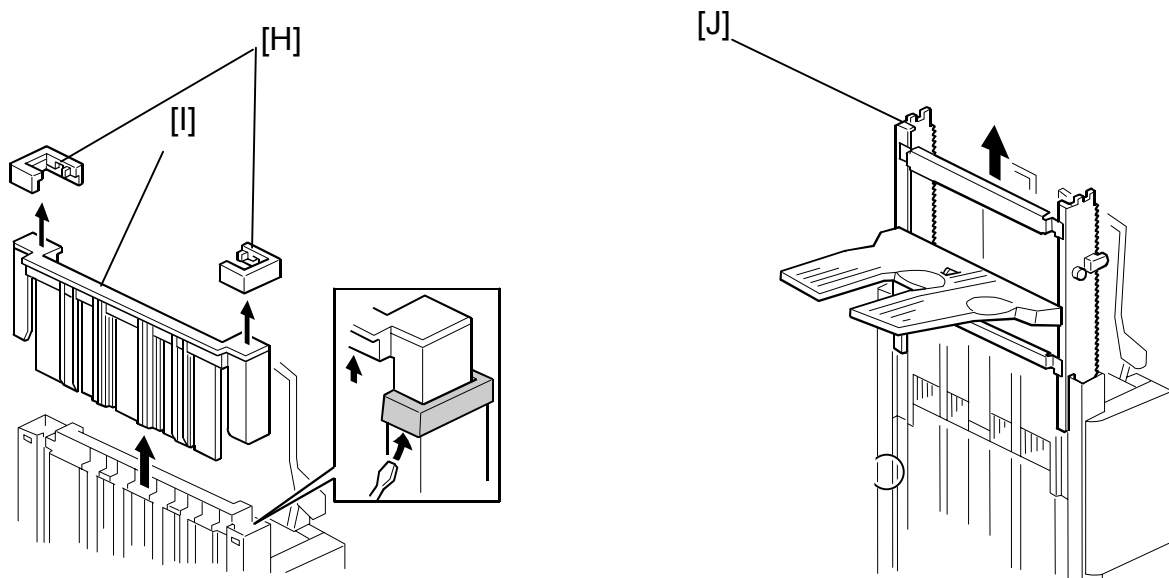


5. If the cable is caught at area [D], go on to the next step. If not, the finisher is OK.



6. Remove the lower rear cover [E] (4 screws).

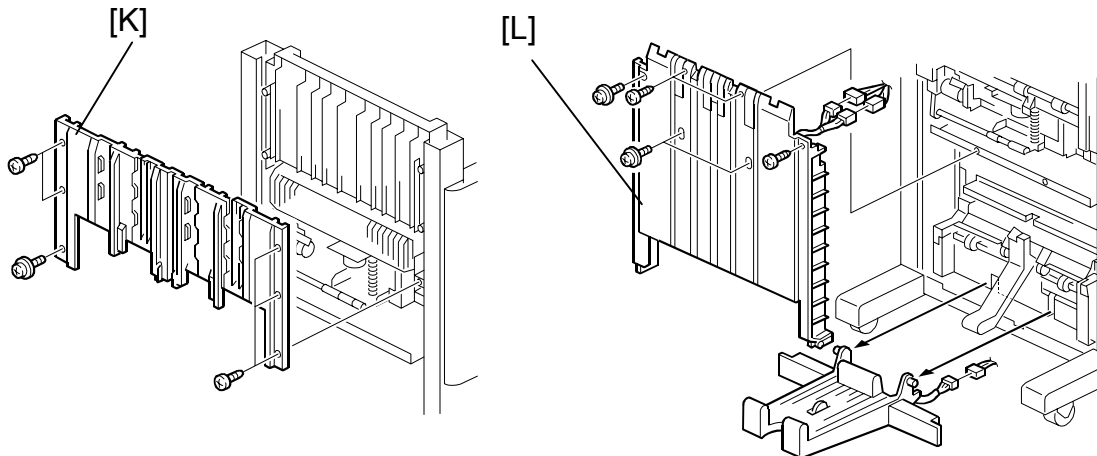
7. Disconnect the connector [F] and remove the grounding wire [G] (1 screw).



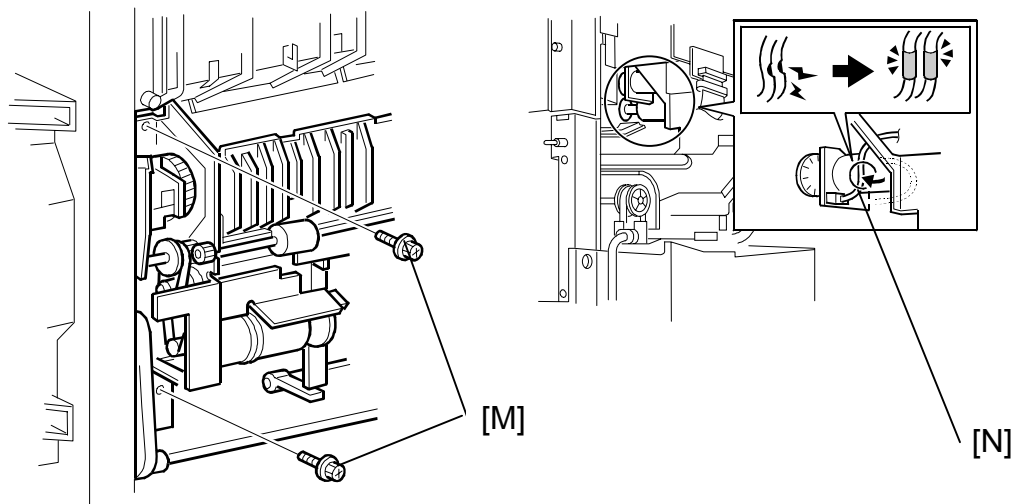
8. Unhook the two stoppers [H] and remove them.

9. Remove the slide guide [I] by pulling it up.

10. Remove the shift tray unit [J] by pulling it up.



10. Remove the upper shift guide [K] (6 screws (5 x M4, 1 x M3)).
11. Remove the lower shift guide [L] (2 connectors, 6 screws [3 x M4, 3 x M3]).

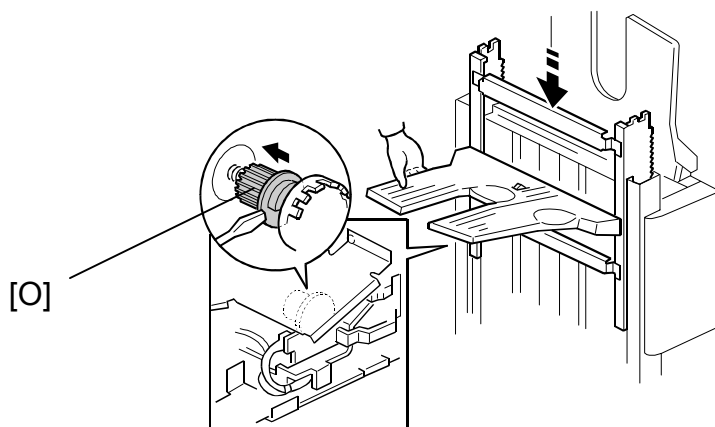


12. Loosen the rear side screws [M] of the exit unit.
13. Free the cable [N].
14. Check the surface of the cable.
15. If the cable wires are visible, wrap them with vinyl tape.

Model: Mojito

Date: 04-Jul-00

No.: RA293007



16. Reassemble the machine.

Note: When reinstalling the shift tray unit, release the clutch gear [O] of the tray lift motor by carefully inserting a screwdriver.

COUNTERMEASURE

The length of the cable has been decreased and the route of the cable has been modified.

Serial numbers of finishers which may have this problem:

Model Code Serial Number:

A763-14 : From first production to L0740030077

A763-17 : From first production to H5000400375

A763-22 : From first production to H5000300440

A763-26 : From first production to 4D80300090

A763-27 : From first production to H5000300571

Model: Mojito		Date: 06-Jul-00	No.: RA293008
Subject: Low ID		Prepared by: M. Tsuyuki	
From: Technical Services Dept., GTS Division			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

SYMPTOM

Low image density on copies made by low CV machines around 20 to 30K after installation.

CAUSE

The fusing fan motor stops when the low power timer runs out (60 s) and the machine enters Energy Saver Mode. Because the fusing lamp remains on in order to maintain hot roller temperature, the temperature of the areas surrounding the unit rises. The resulting heat can damage the toner that is stored in the bottle above the fusing unit, causing some of the toner's constituents to separate out. The altered toner is then sent to the development unit and is mixed in with the developer, causing developer chargeability to drop. This results in low image density on copies.

This heat damage occurs on low CV machines, as the toner remains in the bottle for extended periods of time.

ACTION

Newly installed machines:

Please upgrade the BICU firmware to ver 3.5.1 at installation.

Field machines which have no low ID problem:

Please upgrade the BICU firmware to ver 3.5.1 at the next field visit.

Field machines which have a low ID problem:

1. Upgrade the BICU firmware to ver 3.5.1.
2. Replace the developer.
3. Replace the toner bottle.
4. Clean the toner from the toner hopper.

Model: Mojito

Date: 06-Jul-00

No.: RA293008

COUNTERMEASURE

1. Firmware:

The off-timing of the fusing fan motor has been delayed, so that it will remove the hot air around the toner bottle.

2. Hardware:

As an added measure, a heat insulator will be installed between the front frame of the scanner unit and the toner bottle to ensure that the toner is not damaged, even if the internal temperature should rise.

Reissued: 13-Nov-00

Model: Mojito	Date: 17-Jul-00	No.: RA293009a
---------------	-----------------	----------------

RTB Correction

The items in bold italics have been corrected.

Subject: SC 124,501,502,503,362(220-240V version only)		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

SYMPTOM

One of the following SCs is activated when the power is turned on by the weekly timer or by the operation switch (upper right of the panel):

SC124: Scanner motor encoder error

SC335: Polygonal mirror motor error 1

SC362: Hard disk detector error

SC493: Exhaust fan motor lock

SC494: Fusing exhaust fan motor lock

SC501: 1st tray lift malfunction

SC502: 2nd tray lift malfunction

SC503: 3rd tray lift malfunction

SC520: Duplex jogger motor error 1

CAUSE

When the power is turned on, the supply of voltage through the 24V line is slow.

FIELD ACTION

The occurrence rate is predicted to be extremely low because the range of tolerance for the start-up current in 220V machine PSUs is approximately +/- 20%. If you receive reports of any of the SCs mentioned above, please do the following procedure:

1. Set the machine to turn off with the weekly timer.
2. After the machine has turned off, turn the operation switch on and off at least ten times.
3. When any of the SCs listed above is activated, please replace the PSU board.
If none are activated, please check other possible causes for the SCs reported.

Note: The PSU boards themselves cannot be modified in the field. Therefore, all PSUs now in service parts stock are either modified units or previous units that were found to have no problems (see below for details). The part number for the PSU has not been changed.

Reissued: 13-Nov-00

Model: Mojito

Date: 17-Jul-00

No.: RA293009a

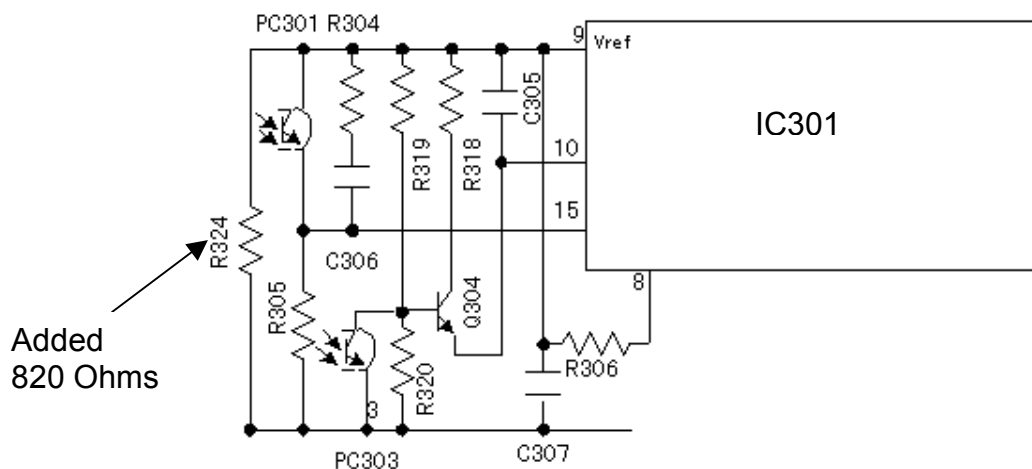
COUNTERMEASURE

Temporary

The PSUs in service parts stock have been checked and the units with defective boards have been sorted out using the IC301-9 output signatures.

Permanent

An 820 Ohm (1/4w) resistor has been added to the PSU board. In order to do this, the board pattern was changed.



Cut-in serial Numbers

The modified PSUs have been used in production machines from the following serial numbers:

		Temporary	Permanent
A292	-22	----	H4700600123 ~
	-24	L0710060126 ~	L0710070132 ~
	-26	----	4D60600001 ~
	-27	H4700500599 ~	H4700600371 ~
	-29	H4700500616 ~	H4700600001 ~
A293	-22	----	H4800600001 ~
	-24	L0720060126 ~	L0720070105 ~
	-26	----	4D50600001 ~
	-27	H4800500101 ~	H4800600173 ~
	-29	H4800500559 ~	H4800600426 ~

Model: Mojito		Date: 11-Aug-00	No.: RA293010
Subject: Service manual		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Please correct or add the following to your service manuals:

Page 3-27 Correction

3.5.2 PUNCH UNIT INSTALLATION

When attaching the punch unit (A812) to the SR740 finisher (B312), it is not necessary to change the dip switch setting. From the B312 model, the dip switch is located on the A812 unit's punch drive board and is set at the factory.

Incorrect:

10. **When a three-punch-hole-unit is installed:** Change switch 1 of DIP SW 100 on the finisher control board to ON.

Correct:

10. **When a three-punch-hole-unit is installed:** Check to see that switch 1 of DIP SW 100 on the punch drive board has been set to ON.

Page 4-61 Addition

4.2.2 SERVICE PROGRAM MODE TABLES

The following SP modes have been added from the 1st production.

7-504	Copy Jam Counter by Jam Location				
41	SR750 Booklet Exit sensor (On check)	*			
42	SR750 Booklet Exit sensor (Off check)	*			
43	SR750 Booklet staple jam	*			

Page 4-76 Addition**4.3 PROGRAM AND DATA Downloading to the SBICU**

The downloading procedure for the Mojito is the same as for the SP5.

Downloading to the SBICU

1. Turn off the main power switch.
2. Remove the flash memory card cover [A].
3. Insert the flash memory card [B] into the card slot.
NOTE: Make sure that the surface marked "A" faces upwards.
4. Turn on the main power switch.
5. Press "Install". The machine erases the current software, then writes the new software to the SBICU. This takes about 200 seconds.
If downloading fails, an error message appears on the display. At this time, press the "OK" key to attempt the download again.

Page A763-1 Correction
1.1 SPECIFICATIONS
Incorrect

Paper Capacity (80 g/m², 20 lb):

Tray	Modes	Paper size	Capacity
Proof tray		A4-S, LT-S or shorter	150 sheets
		A4-L, LT-L or longer	75 sheets
Shift tray	No staple	A4-S, LT-S or shorter	<u>1000 sheets</u>
		A4-L, LT-L or longer	<u>500 sheet</u>
	Staple	A4-S, LT-S or shorter	<u>750 sheets</u>
		A4-L, LT-L or longer	<u>500 sheets</u>
Staple tray	One size Mixed sizes	1-5 sheets	25 sets
		6-10 sheets	15 sets
		11-15 sheets	10 sets

(-L": Lengthwise , -S: Sideways)

Correct

Paper Capacity (80 g/m², 20 lb):

Tray	Modes	Paper size	Capacity
Proof tray		A4-S, LT-S or shorter	150 sheets
		A4-L, LT-L or longer	75 sheets
Shift tray	No staple	A4-S, LT-S or shorter	<u>147mm stack height or 1000 sheets (*)</u>
		A4-L, LT-L or longer	<u>74mm stack height or 500 sheet (*)</u>
	Staple	A4-S, LT-S or shorter	<u>110mm stack height or 30 sets or 750 sheets (*)</u>
		A4-L, LT-L or longer	<u>74mm stack height or 30 sets or 500 sheets (*)</u>
Staple tray	One size Mixed sizes	1-5 sheets	25 sets
		6-10 sheets	15 sets
		11-15 sheets	10 sets

(-L": Lengthwise , -S: Sideways)

* The machine will inform the operator that the tray is full when any of the listed conditions are met (whichever occurs first).

Model: Mojito		Date: 22-Aug-00	No.: RA293011
Subject: Installation Procedure for Copy Tray Tape 700		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Installation procedure for the Copy Tray Type 700

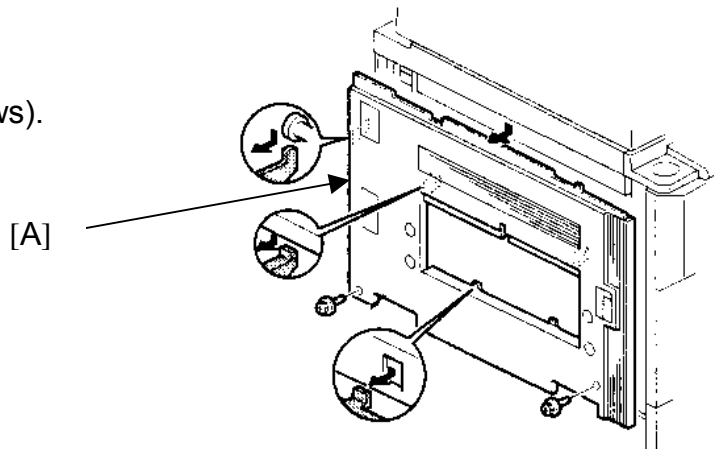
1. Accessory check

Check the accessories in the box against the following list.

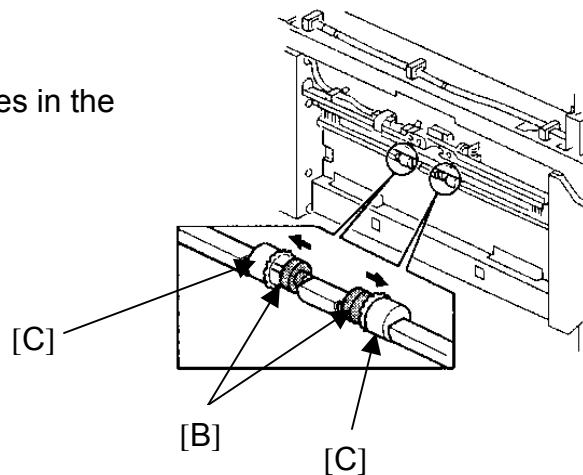
Description	Q'ty
1) Copy Tray	1
2) Tray Paper Limit Sensor Assembly.....	1
3) Cap – $\phi 22$	4
4) Connector Cap	1
5) Philips Tapping Screw – M4x8.....	2

2. Installation Procedure

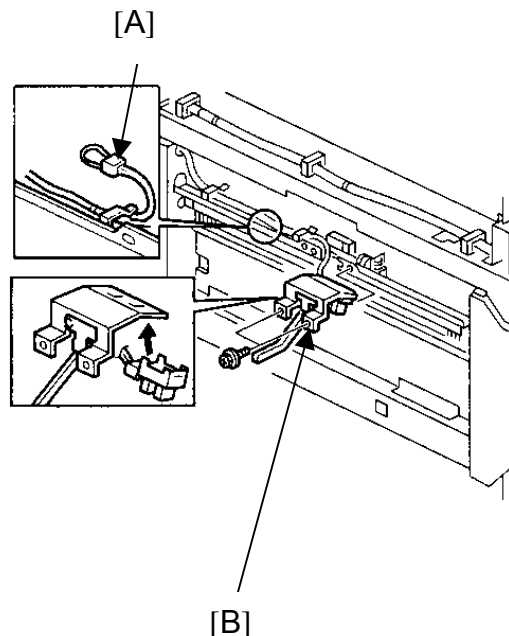
1) Remove the left cover [A] (2 screws).



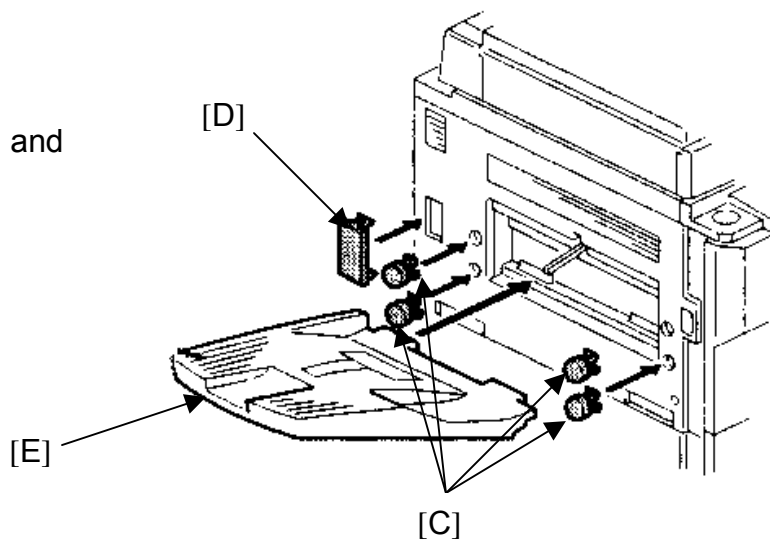
2) Slide the collars (black) [B] into the holes in the rubber rollers [C] of the exit drive roller.



- 3) Remove the shorting connector [A].
- 4) Install the tray paper limit sensor assembly [B].



- 5) Reinstall the left cover.
- 6) Install the four caps (φ22) [C] and the connector cap [D].
- 7) Install the copy tray [E].



Reissued: 30-Aug-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005b
---------------	-----------------	----------------

RTB Correction

Version 3.6 has been added.

Subject: BICU firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input checked="" type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other ()		

BICU firmware modification history (version 3.6 only – for earlier modifications, see earlier RTBs)

As there five types of the firmware, use an appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7653	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7653	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00

Reissued: 30-Aug-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005b
---------------	-----------------	----------------

Version 3.6

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553F	A293 7653F	A293 7564C	A293 7565C	A293 7566C

1. New SP Mode (SP5970) for EB-70 (Printer controller)

The following setting applies when the EB-70 printer controller is installed.

Mode No.	Function	Setting
5970	Printer Installed	
	Selects whether the EB-70 printer controller is installed or not.	0: No 1: Yes

2. Some of the Image Missing in Tab Stock when Printing from the Document Server Symptom

When files in the Document Server are printed onto Tab Stock, the image is not rotated even though tab stock can be set sideways only. This is because, in the Document Server, the documents are saved lengthwise only.

Modification

The error has been corrected.

3. Malfunction with Printer Dot Edge Parameter Setting when Printing from the Document Server Symptom

When edge smoothing is off, the line thickness is not changed when the printer dot edge parameter setting (SP2114) is changed.

Modification

The error has been corrected.

Model: Mojito		Date: 11-Sep-00	No.: RA293012
Subject: Service Manual		Prepared by: M. Tsuyuki	
From: Technical Services Dept.,GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Please correct your service manual as follows.

SP Modes

SP1-008 : Duplex Fence Adjustment

SP1-008-1 → Delete

SP1-008-2 → SP1-008

SP2-210 : ID Sensor Interval

Change the maximum interval from 500 copies to 200 copies.

New SP Modes

SP2-921 : Shading correction

Designer use only.

SP5-212: Page Numbering

SP5-212-003 : Page Print Position – Side to Side

Adjusts the position (sub scan direction) of "Page Numbering" on the 2nd side when making a duplex copy.

Range: -10 to +10mm Default: 0mm Setting: 1mm/Step

SP5-212-004 : Page Print Position – Up and Down

Adjusts the position (main scan direction) of "Page Numbering" on the 2nd side when making a duplex copy.

Range: -10 to +10mm Default: 0mm Setting: 1mm/Step

SP5-513: PM Alarm Setting Interval

SP5-513-001: Copy Paper Based

Japanese market only

Default: 300

SP5-513-002: Original Based

Japanese market only

Default: 300

Model: Mojito

Date: 11-Sep-00

No.: RA293012

SP5-514: PM Alarm on/off Setting**SP5-514-001: Copy Paper Based**

Japanese market only

Default: 1

SP5-514-001: Copy Paper Based

Japanese market only

Default: 0

SP6-016: ADF Motor Speed Auto Adjustment

Adjust the speed of the feed-in motor, transport motor and feed-out motor.

Use this SP mode after replacing the main board, feed-in motor, transport motor, or feed-out motor.

SP6-120-*: Staple Jogger Adjustment**

Adjusts the jogger fence position of the staple tray.

Range: 0.0 to 1.5 Default:0.0 Setting: 0.5/step

001: A3

002: B4

003: A4 lengthwise

004: A4 Sideways

005: B5 lengthwise

006: B5 Sideways

007: DLT

008: LG

009: LT lengthwise

010: LT Sideways

011: Others

SP-7-990-*: SC990 Information**

Displays the detailed information for SC990.

When SC990 has occurred, ask the technician to check this information.

001: File name

002: Line number

003: Value

Model: Mojito

Date: 11-Sep-00

No.: RA293012

Deleted SP modes

The following SP modes have been deleted from mass-production machines.

SP1-110: Paper Exit – Platen Mode

SP4-903-18: Filter Level – Pale Mode

SP4-903-19: Filter Level – Generation Copy

SP4-904-3: Graduation Processing Selection – Text/Photo

SP4-904-5: Phase Control – Text

SP4-904-8: Graduation Process in Photo Area

SP4-904-9: Image Data Pass

SP4-904-12: Binary Thresh Level

SP4-904-18: Binary Dither Pattern

SP4-905-2: Image Data Path – Generation

SP4-907: Text/Photo Auto Separation Method

SP4-908: Text/Photo Separation Method

SP4-912-1 – 18: Text/Photo Separation Setting (All SP Modes)

SP7-830: Copy Counter by paper size

SP7-928: Document Server: Clear Copy Number of Each Job

Page 5-4

Please correct the product code of the finisher as follows;

BRAZOS-B → B312

VICTORIA → B302

TONEGAWA-B → A763

Please remove “Punch Waste Hopper” from the table of Finisher (A673).

Model: Mojito		Date: 12-Sep-00	No.: RA293013
Subject: Image Quality of Half Tone and Gray Scale		Prepared by: A. Sasaki	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Other (Recommended action)		

SYMPTOM

The image quality of half tone or gray scale areas on printouts is not clear or sharp enough.

ACTION

1. Recommend customers to set the **Edge Smoothing** function to the **OFF** position in the printer driver.

The default setting of the Edge Smoothing function for each driver language and printer controller type is as follows:

Driver Language	Controller Type A	Controller Type B
PCL5e	ON	OFF
PCL6	ON	OFF
PostScript3	OFF	OFF

2. Change the printer dot edge parameter in the printer SP mode (Printer SP – Settings – Printer Dot Edge Parameter) from “Normal” (default) to “SP mode”.

Note: With this change, the print line width can be thickened. This change is valid only when the Edge Smoothing function is set to “OFF”.

3. Change Copy SP2114 (Printer dot edge parameter setting) to the original settings.

SP Number	Original Setting
SP2114-1	7
SP2114-2	7
SP2114-3	11
SP2114-4	7

4. If the customer wants an even thicker line width, change Copy SP2114 (Printer dot edge parameter setting) from the original settings to the thicker settings.

SP Number	Original Setting	Thicker Setting
SP2114-1	7	10
SP2114-2	7	10
SP2114-3	11	15
SP2114-4	7	10

Note: Do not set any other combinations of the four settings other than in the above table. Otherwise, an unexpected image appears on printouts.

This SP is valid only when the Edge Smoothing function is set to “OFF” and the Printer Dot Edge Parameter in the printer SP mode is set to “SP mode”.

Model: Mojito (Finisher)		Date: 06-Oct-00	No.: RA293014
Subject: SC729 (Punch Motor Failure)		Prepared by: S. Hizen	
From: Technical Services Dept., GTS Division			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

SYMPTOM

SC729 is displayed, or the mainframe does not detect the finisher.

CAUSE

1. Electrical noise generated by the drive motor affects the initial check routine of the punch drive board firmware, such that the motor reset signal is constantly sent out. The only units on which the symptom may occur are the USA two-punch-hole and European four-punch-hole units.
2. The two screws securing the heat resistor to the IC on the punch drive board come loose. As a result, the temperature of the IC becomes too high.

SOLUTION

1. The software has been changed so that the drive motor reset signal is deactivated at the proper time, even if electrical noise occurs.

Production units:

The ROM on the finisher main board has been changed from the beginning of September 2000 mass-production, and on some units from August mass-production.

Old ROM P/N: B302-5103F

New ROM P/N: B302-5103G

Listed below are the serial numbers for August production finishers that contain the new modified ROM.

Note: These units are marked with yellow, circular labels next to the bar code on the carton.

Model: Mojito (Finisher)

Date: 06-Oct-00

No.: RA293014

B302-14

L0670080009

L0670080016~L0670080018

L0670080020~L0670080023

L0670080025~L0670080028

L0670080030~L0670080035

L0670080037~L0670080039

L0670080044~L0670080047

L0670080049~L0670080050

L0670080115~L0670080151

L0670080153

L0670080155~L0670080156

L0670080177~L0670080178

L0670080181~L0670080186

L0670080189~L0670080191

L0670080193~L0670080213

Total 99 units

B302-17

H3800800066

H3800800073~H3800800074

H3800800082~H3800800451

Total 373 units

B302-26: None

- 2 From September 2000 production of the punch units, the heat resistor securing screws have been locked in place with an adhesive.

P/N change:

Old Punch Drive Board P/N: A812-5120

New Punch Drive Board (Heat resistor screw lock) P/N: A812-5150

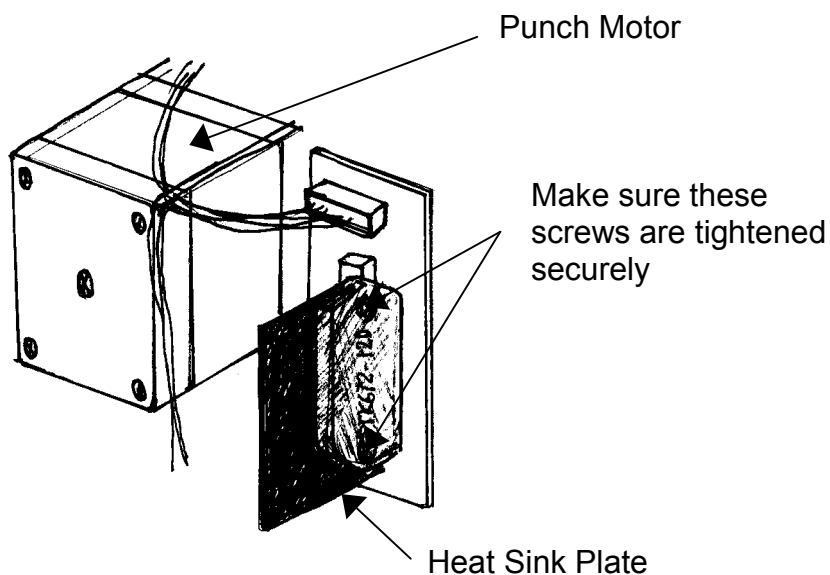
Model: Mojito (Finisher)

Date: 06-Oct-00

No.: RA293014

3 Action required for field units:

3-1 Please check the two heat resistor screws when visiting the machine site and tighten them if they are loose.



3-2 Replace the finisher ROM only in the following finishers:

- USA: 2-punch hole unit
- Europe: 4-punch hole unit

Model: Mojito		Date: 10-Nov-00	No.: RA293015
Subject: Printer Controller (B337) System Firmware Histories		Prepared by: A. Sasaki	
From: Technical Service Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Other (Information)		

This is to inform about the modification histories of the system firmware of Printer Controller Type 700 (B337).

As there are two types of the firmware, use the appropriate one for the product brand.

Destination	Part Number	Product Codes/Brands
Generic	B337 5800	B337-01, -10, -15, -17
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec
Lanier	B337 5814	B337-14
		Lanier

- Firmware Version and Part Number Suffix for Each Destination -

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814
Version	Suffix	Suffix
0.40	None	None
0.43	A	A
0.46	B	B

- Version 0.40 -

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814

This is the first version of the mass production.

- Version 0.43 -

Destination	Generic	Lanier
Part Number	B337 5800 A	B337 5814 A

1. Blank Sheet as the Last Page of a Duplex Job with Odd-numbered Pages

Symptom

When a duplex job with odd-numbered pages is printed using the sample print function, the second side of the last sheet is stored as a blank page.

Modification

The blank page is deleted when the file for the job is stored as a document server document.

Note

This modification is valid only with the engine firmware version **3.51** onwards.

Model: Mojito

Date: 10-Nov-00

No.: RA293015

2. Error when Deleted Files are Accessed

Symptom

An error occurs when deleted files in the deletion list of the engine are accessed.

Note

This modification is valid only with the engine firmware version **3.51** onwards.

3. Unnecessary Characters when Downloading User Defined Symset of PCL5e

Symptom

Unnecessary characters are also included when Downloading User Defined Symset of PCL5e.

4. Wait State of Flash ROM

Symptom

The Wait State of the flash ROM is valid with not only 70-ns ROM but also 90-ns ROM.

- Version 0.46 -

Destination	Generic	Lanier
Part Number	B337 5800 B	B337 5814 B

1. Measure for 10" x 14" Paper.

2. Symptom

A print job with more than 1000 pages stops printing.

3. Symptom

The user tools are not accessible and SC955 occurs if a print job is canceled after more than 1000 pages are stored in the document server.

4. Symptom

SC2002 occurs with Portuguese, Czech, Polish, Hungarian and Finnish.

5. The value of prtAlertTrainingLevel when an error occurs with MIB is changed from 5 (fieldService) to 2 (unknown).

6. Symptom

Job histories are not logged if a user code is not entered.

7. Symptom

PJL job end is not correctly returned.

8. ASI commands have been added.

9. Some errors are not logged in MinorErrorLog.

Reissued: 08-Dec-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005c
---------------	-----------------	----------------

RTB Correction

- 1.Version 3.6 has been added.
- 2.The following item in italics has been corrected.

Version 3.6 item No.1: New SP mode (SP5970) for EP-70 (Printer Controller).

Subject: BICU firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input checked="" type="checkbox"/> Action required	<input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision	
	<input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information		
	<input type="checkbox"/> Other ()		

This is to inform about modification histories of the BICU firmware (versions 3.6 and 3.11 only – for earlier modification see earlier bulletins).

As there five types of the firmware, use an appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7563	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7563	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00
3.11	G	G	D	D	D	

Reissued: 08-Dec-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005c
---------------	-----------------	----------------

Version 3.11

Destination	America	Eu1_Asia	Eu2	Eu3	Eu3 (Lanier)
Part Number	A293 7553G	A293 7563G	A293 7564D	A293 7565D	A293 7566DC

1. SP5009 (Language Selection) Deleted

This SP mode is no longer necessary since the display language can be selected using Language Priority inside User Tools.

2. SC990 Misdetection (Taiwan machines only)

Symptom Corrected

SC990 occurs when the document server key is pressed. The cause was determined to be a bug in the software.

3. New Items Added to Output Checks (SP5804)

The following items have been added to the output check for the tandem tray:

No.	Description
22	Right Tray Lock
23	Left Tray Lock

4. Incorrect Drum Unit Installation

Feature Changed

There is no response when the Start key is pressed, and the machine displays "copying". This was because the drum unit had not been set properly. The new software version allows the machine to start the job even if the drum has not been set properly, however this will be indicated by an image quality problem on the printout. Therefore if this occurs, check to see if the drum has been set properly.

5. Page Numbering for Duplex Copying

Feature added

Even when Center has been selected for the page numbering position and fine adjustments are made left/right, the actual printing positions on the front and rear sides will match.

6. Scanning Speed Increased

The Document Server scanning speed has been increased from 60 to 70 spm.

7. SC Display Error (SC740 instead of SC720)

Symptom Corrected

For a finisher motor failure, the machine displays SC740 when it should display SC720. In addition, a SC740 occurrence is logged in the machine history.

Note: SC740 is an SC error code for the A763 Booklet Finisher.

8. Paper Exit Orientation Error

Symptom Corrected

Normally when switching from platen to DF mode, the copy paper exit orientation will be changed so that the front side faces up. However, when switching over to Batch (SADF) mode, the machine does not make the change (i.e. paper is still fed out with the rear side facing up).

Reissued: 08-Dec-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005c
---------------	-----------------	----------------

9. Error when fusing temperature has been set to 175°C or lower.

Symptom Corrected

If the fusing temperature has been set to 175°C or lower and thick paper feed is set for the bypass tray, the machine displays "copying" but the job does not start.

10. Display Deletion

Symptom Corrected

"Tab Stock" was displayed in the Tray 2 Special Paper Indication menu (User Tools → System Settings) when the Mailbox was connected.

11. Word Correction

Some words and phrases have been corrected or improved.
For example: System Setting - Auto Tray Switching

Version 3.6

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553F	A293 7563F	A293 7564C	A293 7565C	A293 7566C

1. New SP Mode (SP5970) for EB-70 (Printer controller)

The EB-70 printer controller requires 3 minutes to warm up once the main switch has been turned on. This is why it is necessary to have "Now loading.....Please wait" displayed if the Printer key (operation panel, left side) is pressed during this warm-up period.

Mode No.	Function		Setting
5970	Printer Installed		
		Selects whether "Now loading.....Please wait" is displayed or not.	0: No 1: Yes

2. Some Part of Image Missing in Tab Stock when Printing from Document Server

Symptom

When files in the Document Server are printed onto Tab Stock, the image is not rotated even though tab stock can be set sideways only. This is because the documents are saved lengthwise only in the Document Server.

Modification

The error has been corrected.

3. Malfunction with Printer Dot Edge Parameter Setting when Printing from Document Server

Symptom

When edge smoothing is off, the line thickness is not changed when the printer dot edge parameter setting (SP2114) is changed.

Modification

The error has been corrected.

Reissued: 22-Dec-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005d
---------------	-----------------	----------------

RTB Correction

Version 3.11.1 has been added.

Subject: BICU firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input checked="" type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other ()		

Modification history of the BICU firmware.

As there five types of the firmware, use an appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7563	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7563	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00
3.11	G	G	D	D	D	08-Dec-00
3.11.1	H	H	E	E	E	22-Dec-00

Reissued: 22-Dec-00

Model: Mojito	Date: 09-Jun-00	No.: RA293005d
---------------	-----------------	----------------

Version 3.11.1

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553H	A293 7563H	A293 7564E	A293 7565E	A293 7566E

Note: The pre-paid card and key counter have not been fully tested with the Mojito by Ricoh, because they are not official options for the Mojito. However, the following items (1 and 2) have been improved as per a field request.

1. Error when connecting the pre-paid card connector to the mainframe 4-pin key counter connector**Symptoms**

- 1) The copier only counts up once for every 2 copies made.
- 2) When the key card has been set in the machine and the main switch turned on, the machine does not detect the card unless the card is taken out and set again.

* Other symptoms are possible. The actual symptom can vary depending on the type of card used.

2. Counter error after the key counter is removed and a jam occurs**Symptom**

If a jam occurs after the key counter is removed during a copy job, the counter value is less than the actual number by 1 when copying starts again.

3. SC337 Logged by Mistake**Symptom**

SC337 is not displayed but is recorded in the logged data.

Cause

There are cases where the 24V line is cut before the 5V line when the main switch is turned off, causing SC337 to occur. Since this occurs when the machine is being turned off, there is no SC337 display, and an error is logged by mistake.

Solution

To prevent SC337 from occurring at power off, both the display and logging of the error will be done at a fixed time after occurrence (200ms). This will allow time for all power lines to drop to 0V, thus preventing misdetection of SC337.

Reissued: 26-Feb-01

Model: Mojito	Date: 09-Jun-00	No.: RA293005e
---------------	-----------------	----------------

RTB Correction

Version 3.13 has been added.

Subject: BICU firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Modification history of the BICU firmware.

As there are five types of the firmware, use an appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7563	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7563	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00
3.11	G	G	D	D	D	08-Dec-00
3.11.1	H	H	E	E	E	22-Dec-00
3.13	J	J	F	F	F	22-Feb-01

Reissued: 26-Feb-01

Model: Mojito	Date: 09-Jun-00	No.: RA293005e
---------------	-----------------	----------------

Version 3.13

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553J	A293 7563J	A293 7564F	A293 7565F	A293 7566F

1. SC990 when printing out the SMC sheet: Polish language only

Symptoms

When SP5590-1/-3 is used to print out the SMC sheet and Polish has been selected as the display language, the wrench symbol lights up and an SC990 error is logged.

2. SC990 at copy start when ID sensor Vsg=0V

Symptom

SC990 occurs if copying is initiated when the ID sensor Vsg is at 0V. The condition is cleared when process control initialization is performed. However, when the power is turned off and then on again, it will always occur when copying is initiated.

3. Diagonal white lines/image shifting with SMC sheet printing

Symptom

When printing out the SMC sheet or counter data printout onto 8 1/2 x 11 lengthwise paper, diagonal white lines appear on the copy or the image data is shifted.

4. PM alert display not displayed at PM timing

Symptom

The PM alert is not displayed when the PM counter reaches its set value.

5. Margin adjustment setting error - Interrupt key

Symptom

When the interrupt key is pressed and the margin adjustment settings are changed for a new job, the machine returns to the original copy job modes/settings, but does not return to the original margin settings.

6. Default setting error when performing Memory All Clear on models for China

Symptom

When SP5801 (Memory All Clear) is performed on models for China, the default for the third paper was displayed as B4, instead of what it should have been (A3). The default value (A3) will now be correctly set.

7. New SP Mode (SP5972: Document Server Counter Selection)

When copy/print files on the document server are printed out, this SP mode allows them to be counted separately as copies and prints, or all together as copies.

Mode No.	Function	Setting
5972	Document Server Counter Selection	
	Select the counter	0: Copy 1: Copy or Printer

Model: Mojito		Date: 20-Feb-01	No.: RA293016
Subject: Necessary precautions - NVRAM replacement		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Important:

In addition to turning off the main switch, please be sure to take the following precautions when replacing the NVRAM.

1. Loss of ALL data stored on the NVRAM.

The NVRAM contains an internal battery, so please observe the following two guidelines when replacing the NVRAM:

- 1) Before replacement, the technician should touch a metal portion of the machine to eliminate the possibility of a static electricity buildup.
- 2) Do not place the NVRAM on an object made of conductive material.
This will cause a short, resulting in the loss of all the data inside.

2. Physical damage to the NVRAM pins when removed.

The insertion and removal of the NVRAMs are the same as for the EPROMs. However, since the NVRAM's casing is made of a resin (plastic), it is necessary to take extra care when removing them so that the casing doesn't break.

- 1) When removing the NVRAM, insert a small, flat-head (standard) screwdriver into the space between the NVRAM casing and the RAM socket (at the ends where there are no pins), lift the RAM up on both ends with the screwdriver, and finally take it out by hand.
- 2) When inserting the NVRAM, it is important to first make sure that all of the pins on both sides have been properly set in their holes, and then to push the pins in all the way.

Model: Mojito		Date: 16-Mar-01	No.: RA293017
Subject: Paper jam in the inverter section		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other ()		

SYMPTOM

During copying, a jam occurs in the inverter section.

CAUSE

Some A2294472 upper exit guide plates contain an extra rib due to a molding error. This rib can sometimes interfere with the exit guide pawl and cause a jam.

The occurrence rate for the interference is 0.2%. Further, the occurrence rate is slightly less after the plate is opened and closed, as the plate and pawl both have a range of movement front to rear of 2mm, making it very unlikely that the two parts would return to the same positions.

SOLUTION

To ensure that similar molding errors do not occur, the mold for the exit guide plate has been changed from the middle of February 2001.

Cut-in Serial Numbers: Refer to the next page.

Model: Mojito

Date: 16-Mar-01

No.: RA293017

Cut-in Serial Numbers**RCL (Japan) Production**

CODE	SERIAL NO.
A292-14	L0711020001 ~
A292-19	H4710200990 ~
A292-22	H4710200311 ~
A292-24	L0711020156 ~
A292-26	4D60210001 ~
A292-27	H4710200566 ~
A292-29	H4710200957 ~
A293-14	L0721020001 ~
A293-22	H4810200001 ~
A293-24	L0721020023 ~
A293-26	4D50210001 ~
A293-27	H4810200435 ~
A293-29	H4810200435 ~

REI (U.S.A.) Production

CODE	SERIAL NO.
A292-15	H4715001857 ~
A292-17	H4715001857 ~
A293-15	H4815001141 ~
A293-17	H4815001141 ~

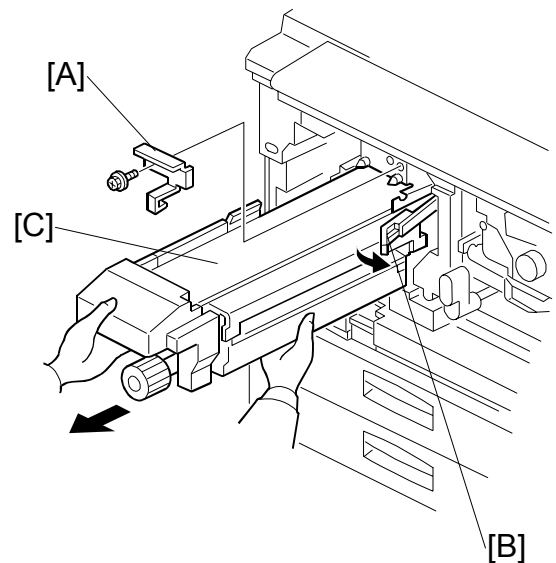
ACTION IN THE FIELD

At installation or the next customer visit, please use the following procedure to check if there is an extra rib on the upper exit guide cover. If there is, please remove portion [E] as shown below.

Field Modification Procedure

1. Turn off the main power switch.
2. Open the front door.
3. Remove the stopper [A] (1 screw).
4. While releasing the lever [B], pull out the fusing unit [C] as shown.

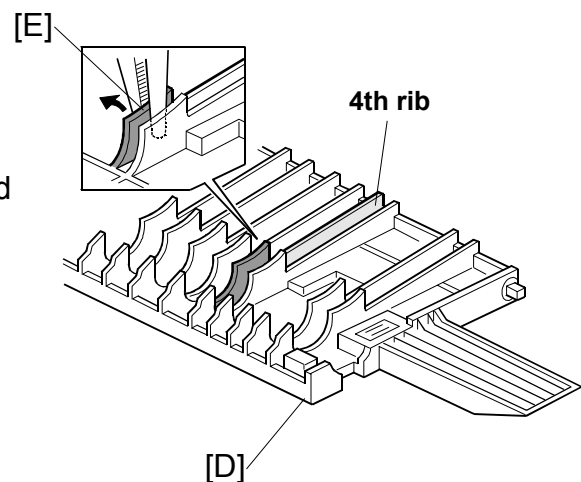
NOTE: Hold the bottom of the fusing unit as shown.



CAUTION:

If the machine was running prior to this procedure, the fusing unit rail will be very hot. Be careful not to touch it while doing this step.

5. Open the exit upper guide plate [D].
6. If the plate contains the extra rib shown in the illustration (4th rib from the front), bend the high end (dark shaded area) [E] toward the back at its base, breaking it off.
7. Reassemble the machine.



Model: Mojito

Date: 16-Mar-01

No.: RA293017

Affected Machine Serial Numbers
RCL (Japan) Production

CODE	SERIAL NO.			
	2000/11	2000/12	2001/01	2001/02
A292-14	L0710110311 ~ 510	L0710120001 ~ 690, 805, 806	L0711010191 ~ 332	---
A292-19	---	---	H4710100001 ~ 13	---
A292-22	---	H4701200001 ~ 206	H4710100014 ~ 338	H4710200002 ~ 310
A292-24	---	L0710120691 ~ 804	L0711010001 ~ 190	---
A292-26	---	4D61200001 ~ 67	4D60110001 ~ 53	---
A292-27	H4701100261 ~ 711	H4701200207 ~ 606	H4710100363 ~ 1054	---
A292-29	H4701100727 ~ 872	H4701200607 ~ 672	---	---
A293-14	L0720110063 ~ 187	L0720120001 ~ 166	L0721010001 ~ 270	---
A293-22	---	---	---	---
A293-24	---	L0720120167 ~ 227	L0721010271 ~ 426, 706	---
A293-26	---	4D51200001 ~ 26	---	---
A293-27	---	H4801200001 ~ 155	H4810100001 ~ 279	H4810100393, 434
A293-29	---	---	---	---

REI (U.S.A.) Production

CODE	SERIAL NO.		
	2000/12	2001/01	2001/02
A292-15	H4706001191 ~ 1300	H4714900561 ~ 0940	H4715000397 ~ 0916
A292-17	H4706000276 ~ 1190	H4714900001 ~ 0560 H4714900941 ~ 1637	H4715000001 ~ 0396 H4715000917 ~ 1856
A293-15	---	H4814900186 ~ 0405	H4815000001 ~ 0300
A293-17	H4806000191 ~ 440	H4814900001 ~ 0185 H4814900406 ~ 0980	H4815000301 ~ 1140

Model: Mojito		Date: 17-Apr-01	No.: RA293018
Subject: Service Manual		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

Please correct your Service Manuals as follows:

Page 4-93

Numbers 1-4 (column titles) for DPS 100 were printed in the opposite order.

Note: The 0/1 table data itself is correct.

Incorrect

ADF Main Board

DPS100				Description
4	3	2	1	
0	0	0	0	Normal operating mode
0	0	0	1	Motor Test: Transport motor – Forward
0	0	1	0	Motor Test: Transport motor – Reverse
0	0	1	1	Motor Speed Adjustment (Automatic)
0	1	0	0	Original stop position adjustment – Single-sided original mode (No original skew correction)
0	1	0	1	Original stop position adjustment – Double sided original mode
1	0	0	0	Free Run: Single-sided original mode with skew correction
1	0	1	0	Free Run: Single-sided original mode without skew correction
0	1	1	0	Free Run: Double-sided original mode
Others				Do not select

Correct

ADF Main Board

DPS100				Description
1	2	3	4	
0	0	0	0	Normal operating mode
0	0	0	1	Motor Test: Transport motor – Forward
0	0	1	0	Motor Test: Transport motor – Reverse
0	0	1	1	Motor Speed Adjustment (Automatic)
0	1	0	0	Original stop position adjustment – Single-sided original mode (No original skew correction)
0	1	0	1	Original stop position adjustment – Double sided original mode
1	0	0	0	Free Run: Single-sided original mode with skew correction
1	0	1	0	Free Run: Single-sided original mode without skew correction
0	1	1	0	Free Run: Double-sided original mode
Others				Do not select

Model: Mojito		Date: 12-Jun-01	No.: RA293019
Subject: Motor Joint Gear		Prepared by: M.Matsuda	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

SYMPTOM

The Motor Joint Gear of the toner bottle holder is worn down, causing noise and uneven rotation.

Note: This symptom has a high tendency to occur after the total counter reaches 1000K.

CAUSE

The amount of grease applied to the gear during production was not enough to prevent premature wearing.

SOLUTION

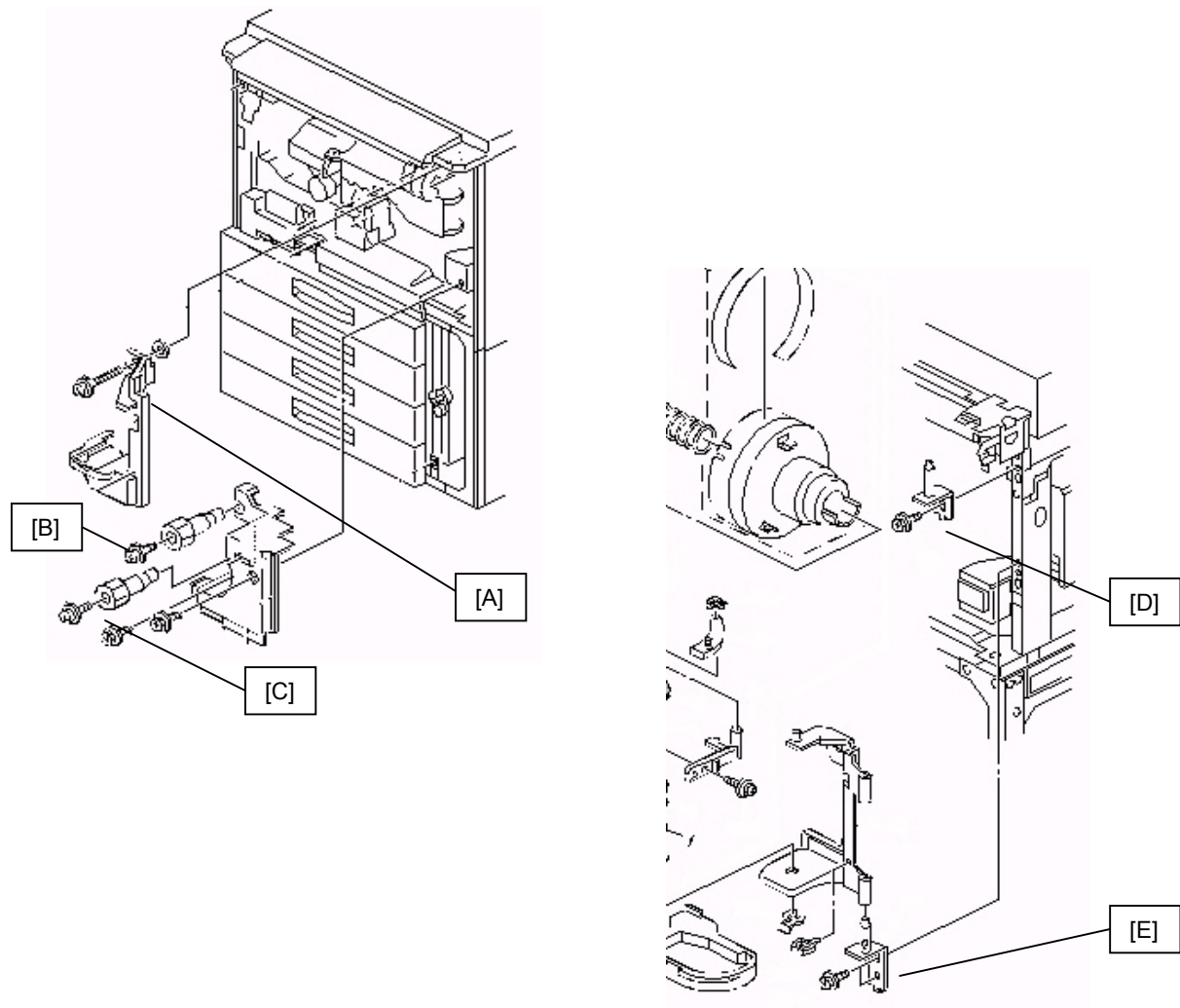
An increased amount of grease has been applied to the gear at the factory since the first lot of May 2001 production.

For field machines produced before May '01 production:

As preventative action for this symptom, grease should be applied to the entire contact surface of the Motor Joint Gear (see *Application Procedure* below). This countermeasure will ensure that the gear will reach its specified lifetime.

Note: Please make sure that grease is applied at the next PM visit or inspection.

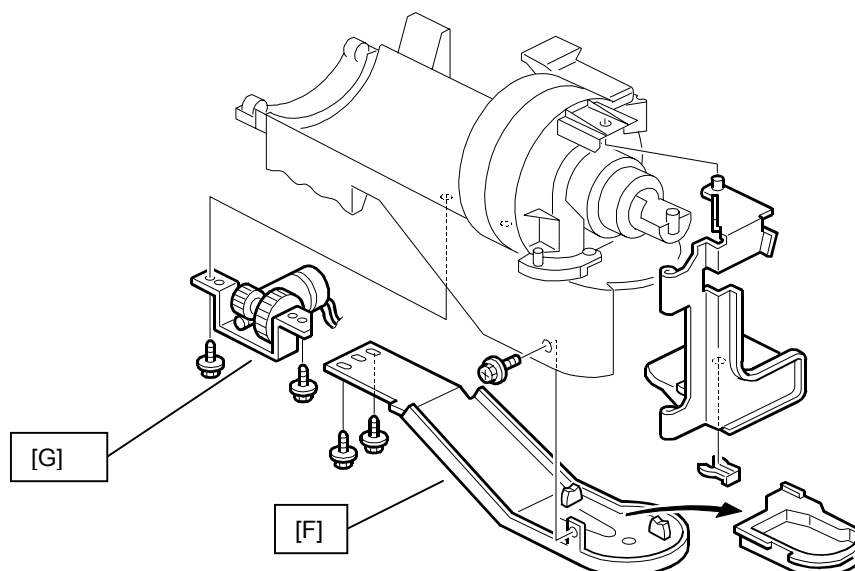
Grease Application Procedure



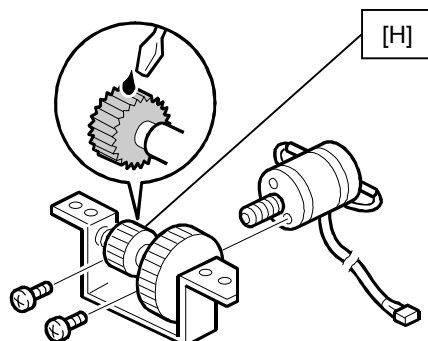
Note: Lay a sheet of paper on the floor before doing the following.

1. Remove the toner bottle.
2. Remove the right inner cover [A] (1 screw, 1 nut).
3. Remove the registration roller knob [B] (1 screw).
4. Remove the right lower inner cover [C] (2 screws).
5. Disconnect the DC motor connector.
6. Remove the contact point stay [D] (1 screw).
7. Remove the lower hinge [E] (2 screws).
8. Remove the toner bottle holder assembly.

Note: When removing the toner bottle holder, please be careful to ensure that toner does not fall out.



9. Remove the turn bracket [F] (3 screws).
10. Remove the toner bottle bracket [G] (2 screws).



11. Apply the grease to the contact surface of the Motor Joint Gear [H].

Note: Please make sure to apply a liberal amount of grease to the entire contact surface of the gear.

12. Re-assemble the machine.

Reissued: 26-Jun-01

Model: Mojito	Date: 9-Jun-00	No.: RA293005f
---------------	----------------	----------------

RTB Correction

Version 3.16 has been added.

Subject: BICU firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Modification history of the BICU firmware.

As there five types of firmware, use the appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7563	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7563	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00
3.11	G	G	D	D	D	08-Dec-00
3.11.1	H	H	E	E	E	22-Dec-00
3.13	J	J	F	F	F	26-Feb-01
3.16	K	K	G	G	G	26-Jun-01

Reissued: 26-Jun-01

Model: Mojito	Date: 9-Jun-00	No.: RA293005f
---------------	----------------	----------------

Version 3.16

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553K	A293 7563K	A293 7564G	A293 7565G	A293 7566G

1. Fusing jam reset conditions changed

Symptoms

To ensure that fusing "D" jams are properly cleared, the software has been changed so that the jam condition does not clear unless the fusing unit is removed and re-inserted. Previously, the condition could be reset with power off/on if the sensor inside the unit did not detect the jammed paper.

Note: Please instruct customers that after removing the jammed paper around the fusing unit, it is also necessary to remove and reinsert the fusing unit and check for any jammed paper inside the unit as well.

2. PM Call Display Error

Symptoms

If the main power is turned off/on while a PM call message is displayed, the message and PM alert condition are cleared.

3. LCT paper size selections added to SP5019 (Tray Paper Size Selection): A4R and LTR

Field Request

To enable selection of these sizes, it is necessary to install the LG Kit and change the size settings of the side and end fences.

4. OHP/Finisher Hole-Punch Change (B312)

Field Request

Software changed so that OHP transparencies cannot be used with the hole-punch feature of the finisher (B312).

When selecting OHP transparencies with the # key (bypass tray feed) and then the hole-punch function, the machine disables operation and a warning display appears on the panel.

5. SC 337 detection conditions changed

SC 337 detection conditions changed so that it will not be triggered by such factors as electrical noise while in standby mode.

6. SC300 detection conditions changed:

To minimize unnecessary SC300 occurrences, the SC300 detection method for charge leaks has been changed as follows:

Old: The counter for number of leaks is cumulative for the entire on-off charge output interval.

New: The counter is reset every 500 ms.

7. Printing Doesn't Start in Interrupt and Low Power Modes

Symptoms

Copying not possible when the machine enters Low Power Mode from the Copy Interrupt screen, and then recovers to Ready status (same screen).

Order of operation:

Copying in interrupt mode

The machine enters low power mode

Auto-response brings the machine out of low power mode (still in interrupt)

An original is set in DF, the Start key is pressed and the original is fed

The Start key alternates between green and red, and copies cannot be made.

Model: Mojito

Date: 25-Jul-01

No.: RA293020

Subject: Tandem Tray Modification

Prepared by: M.Matsuda

From: Technical Services Dept., GTS Division

Classification:

☐ Troubleshooting

☐ Part information

☒ Action required

☐ Mechanical

☐ Electrical

☐ Service manual revision

☐ Paper path

☐ Transmit/receive

☐ Retrofit information

☐ Other ()

SYMPTOM

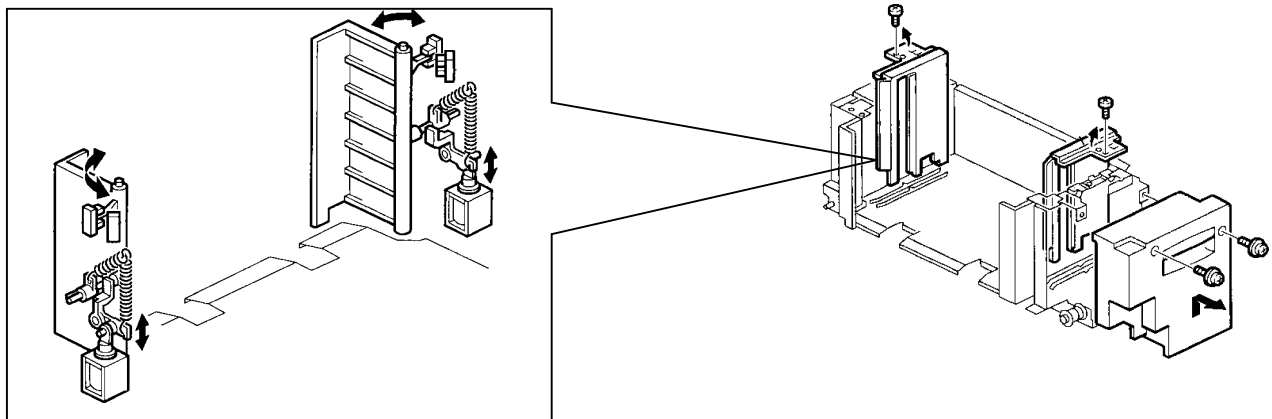
- Right tray does not lift up.
- Left tray back fence is damaged.

Cause & Mechanism

Right tray does not lift up

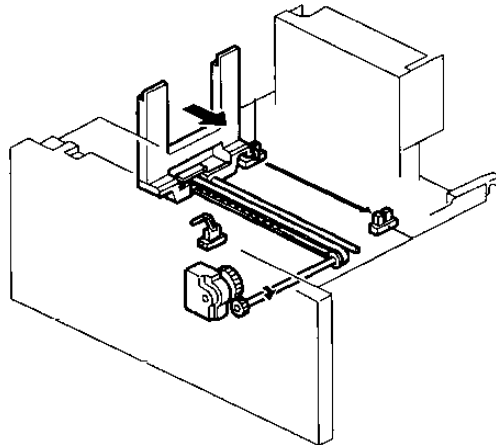
The side fences re-open after the tray has been closed, causing the tray not to lift up (even when paper has been loaded).

This tends to happen when the tray is forcibly closed, in which case the paper in the tray will shift to the left from this shock (causing the side fences to re-open). This can also occur if the customer loads the paper in the right tray incorrectly.



Left tray back fence is damaged

The shock of closing the left tray (or incorrect paper loading) causes the right side fences to open, which in turn causes the left back fence to move to the right (attempting to shift the paper over to the right tray). When there is paper in the right tray, the left back fence is damaged from the resulting resistance.

**SOLUTION****For mass-production units**

- **Right tray does not lift up**

A cushion (shock absorber) has been added to the right rear inner cover of the right tray.
→ Applied from the middle of May 2001 production.

- **Left tray back fence is damaged**

The mask ROM software for the tandem tray has been changed so that the left tray back fence does not move, even when the right tray side fences are open.

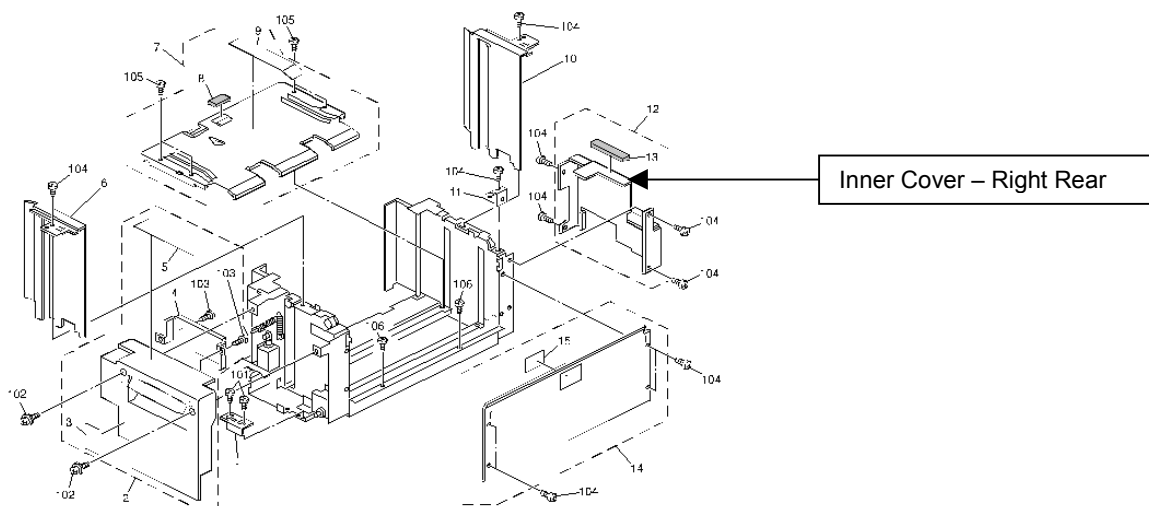
Countermeasure for field units

Install the Tandem Tray Modification Kit, which contains the following parts:

- Inner Cover – Right Rear (with cushion)

The shape of this part has been changed. In addition, a cushion has been added to this part for shock absorption.

When the tray is closed, the cushion contacts the rear side plate. As a result, even if the tray is forcibly pushed in, the cushion will absorb the shock and prevent the side fences from re-opening.



- IC – HD6433294C82P (On the Paper Feed Control Board)

The left tray can only move when the right tray is in its lowest position and there is no paper in the right tray.

Model: Mojito		Date: 31-Jul-01	No.: RA293021
Subject: Toner Pump Lock		Prepared by: M.Matsuda	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

SYMPTOM

The toner recycling pump locks.

CAUSE

The quality of recycled toner gradually decreases, eventually hardening and clumping to the point where the Toner Recycling Pump is no longer able to effectively circulate it.

Note: In particular, this occurs when the temperature of the machine's surroundings is high, such as in relatively high-temperature environments or when there is a minimum amount of free space around the machine.

SOLUTION

Replace the Pulley and Timing Belt with the modified parts listed below, which will effectively increase the drive power of the pump from 225rpm to 400rpm.

Old Parts Number	New Parts Number	Description	Int	Page and Index No
AB030458	AB030720	Pulley	As a set X/O	121 - 28
AA043415	AA043573	Timing Belt		123 - 24

Note: Be sure to replace these two parts as a set.

Reissued: 01-Aug-01

Model: Mojito	Date: 9-Jun-00	No.: RA293005g
---------------	----------------	----------------

RTB Correction

Version 3.17 has been added.

Subject: BICU firmware Modification History		Prepared by: F. Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

BICU firmware history

As there five types of firmware, use the appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7563	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7563	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00
3.11	G	G	D	D	D	08-Dec-00
3.11.1	H	H	E	E	E	22-Dec-00
3.13	J	J	F	F	F	26-Feb-01
3.16	K	K	G	G	G	26-Jun-01
3.17	L	L	H	H	H	01-Aug-01

Reissued: 01-Aug-01

Model: Mojito	Date: 9-Jun-00	No.: RA293005g
---------------	----------------	----------------

Version 3.17

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553L	A293 7563L	A293 7564H	A293 7565H	A293 7566H

1. Display error: Cover/Slip Sheets settings**Symptom**

In the Cover/Slip Sheets settings screen for Trays 1/2 (User Tools → System Settings), the display for the Duplex and Simplex buttons was reversed, causing Duplex to be activated when Simplex is selected (and vice-versa).

Note: This only occurs with the Danish, Finnish and Hungarian display languages.

2. Page numbering error in Cover/Slip Sheet mode**Symptom**

The page numbering printed on copies in Cover/Slip Sheet mode is incorrect when Type 4 numbering is selected (e.g. 1-1, 1-2) and the copy job has been set to begin from the 2nd page onward.

Reissued: 21-Aug-01

Model: Mojito	Date: 25-Jul-01	No.: RA293020a
---------------	-----------------	----------------

Serial Number Update

The Serial Number information has been updated.

Subject: Tandem Tray Modification		Prepared by: M.Matsuda	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

SYMPTOM

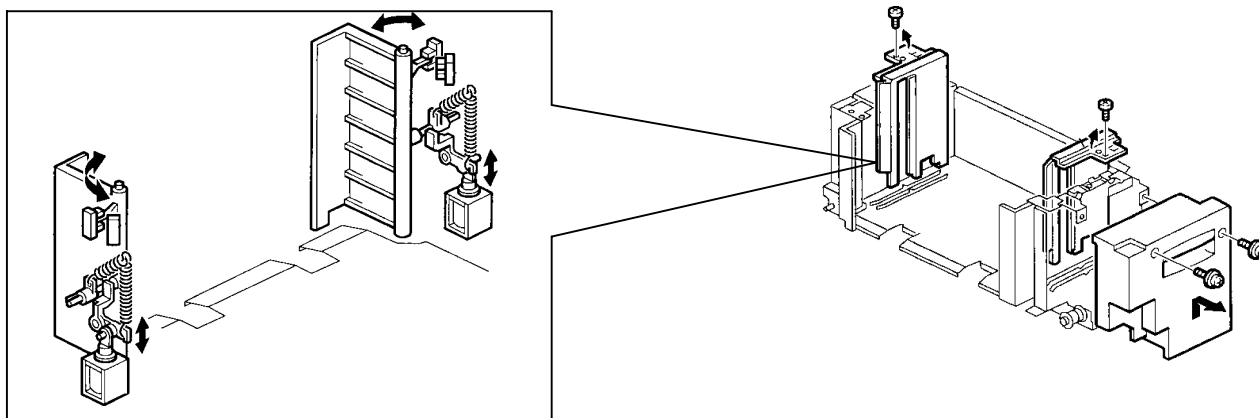
- Right tray does not lift up.
- Left tray back fence is damaged.

Cause & Mechanism

Right tray does not lift up

The side fences re-open after the tray has been closed, causing the tray to not lift up (even when paper has been loaded).

This has a tendency to happen when the tray is forcibly closed, in which case the paper in the tray will shift to the left from this shock (causing the side fences to re-open). This can also occur if the customer mis-loads the paper in the right tray.



Reissued: 21-Aug-01

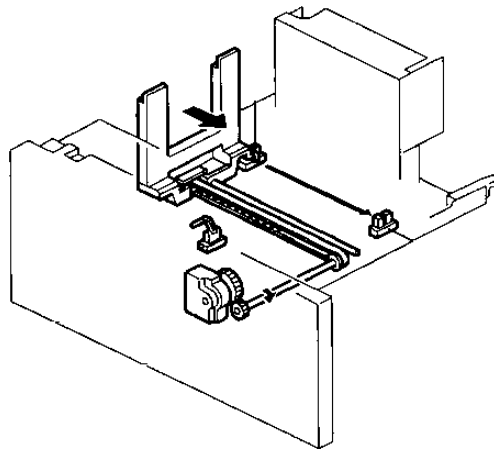
Model: Mojito

Date: 25-Jul-01

No.: RA293020a

Left tray back fence is damaged

The shock of closing the left tray (or paper mis-load) causes the right side fences to open, which in turn causes the left back fence to move to the right (attempting to shift the paper over to the right tray). When there is paper in the right tray, the left back fence is damaged from the resulting resistance.

**SOLUTION****For mass-production units**

- **Right tray does not lift up**

A cushion (shock absorber) has been added to the right rear inner cover of the right tray.
→ Applied from the middle of May 2001 production.

- **Left tray back fence is damaged**

The mask ROM software for the tandem tray has been changed so that the left tray back fence does not move, even when the right tray side fences are open.

Reissued: 21-Aug-01

Model: Mojito

Date: 25-Jul-01

No.: RA293020a

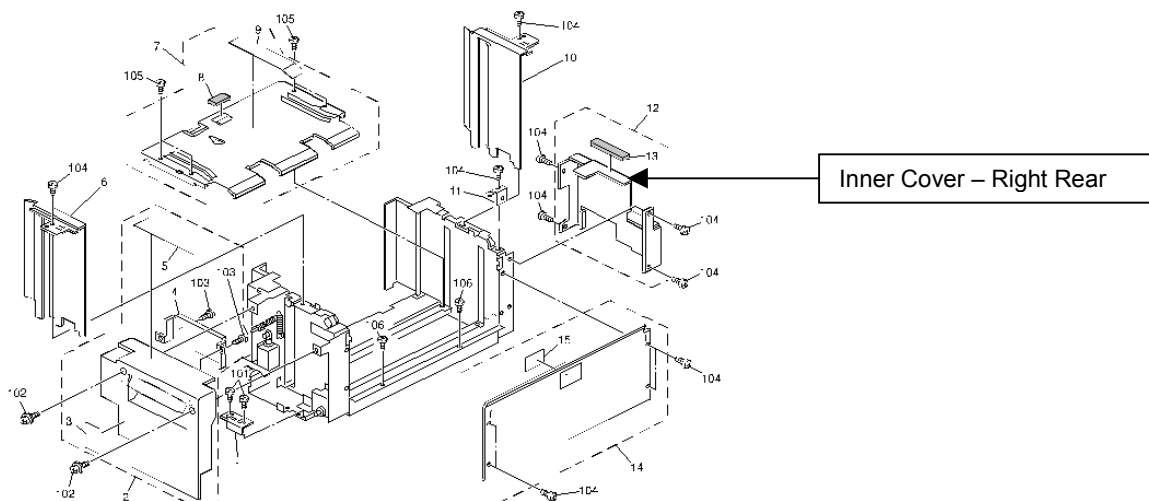
Countermeasure for field units

Install the Tandem Tray Modification Kit, which contains the following parts:

- **Inner Cover – Right Rear (with cushion)**

The shape of this part has been changed. In addition, a cushion has been added to this part for shock absorption.

When the tray is closed, the cushion contacts the rear side plate. As a result, even if the tray is forcefully pushed in, the cushion will absorb the shock and prevent the side fences from re-opening.



- **IC – HD6433294C82P (On the Paper Feed Control Board)**

The left tray can only move when the right tray is in its lowest position and there is no paper in the right tray.

Reissued: 21-Aug-01

Model: Mojito	Date: 25-Jul-01	No.: RA293020b
---------------	-----------------	----------------

• Inner Cover – Right Rear (with cushion)
RCL (Japan) Production

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
Lanier 5455 AG	120/ 60	USA, Canada, S. America	A292-14	L0711050256
Ricoh Aficio 551	120/60	Taiwan	A292-19	H4710500219
Gestetner 3355 nashuatec D555 Rex Rotary 2955	120/ 60	Europe, etc.	A292-22	H4710500300
Lanier 5455 AH	220, 230, 240/ 50, 60	Europe	A292-24	L0711050491
infotec 4551 MF	220, 230, 240/ 50, 60	Europe, etc.	A292-26	4D60510001
Ricoh Aficio 551	220, 230, 240/ 50, 60	Europe, etc.	A292-27	H4710500001
Ricoh Aficio 700	230/50	Korea	A292-28	H4710500276
Ricoh Aficio 551	220/ 50, 60	Asia, Oceania	A292-29	H4710500148
Ricoh Aficio 551	230/50	China	A292-69	H4710500259
Lanier 5470 AG	120/ 60	USA, Canada, S. America	A293-14	L0721050116
Gestetner 3370 nashuatec D570 Rex Rotary 2970	120/ 60	Europe, etc.	A293-22	H4810500134
Lanier 5470 AH	220, 230, 240/ 50, 60	Europe	A293-24	L0721070181
infotec 4700 MF	220, 230, 240/ 50, 60	Europe, etc.	A293-26	4D50510001
Ricoh Aficio 700	220, 230, 240/ 50, 60	Europe, etc.	A293-27	H4810500201
Ricoh Aficio 700	230/50	Korea	A293-28	H4810500393
Ricoh Aficio 700	220/ 50, 60	Asia, Oceania	A293-29	H4810500327

REI (U.S.A.) Production

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
Savin 2055DP Gestetner 3355	120 / 60	USA, Canada, South America	A292-15	H4715400151
Ricoh Aficio 551	120 / 60	USA, Canada, South America	A292-17	H4715301184
Savin 2070DP Gestetner 3370	120 / 60	USA, Canada, South America	A293-15	H4815400001
Ricoh Aficio 700	120 / 60	USA, Canada, South America	A293-17	H4815400341

Reissued: 21-Aug-01

Model: Mojito	Date: 25-Jul-01	No.: RA293020b
---------------	-----------------	----------------

• **IC – HD6433294C82P (On the Paper Feed Control Board)**

RCL (Japan) Production

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
Lanier 5455 AG	120/ 60	USA, Canada, S. America	A292-14	L0711060166
Ricoh Aficio 551	120/60	Taiwan	A292-19	H47107XXXXX
Gestetner 3355	120/ 60	Europe, etc.	A292-22	H4710600434
nashuatec D555				
Rex Rotary 2955				
Lanier 5455 AH	220, 230, 240/ 50, 60	Europe	A292-24	L0711060235
infotec 4551 MF	220, 230, 240/ 50, 60	Europe, etc.	A292-26	4D60710001
Ricoh Aficio 551	220, 230, 240/ 50, 60	Europe, etc.	A292-27	H4710700001
Ricoh Aficio 700	230/50	Korea	A292-28	H4710700550
Ricoh Aficio 551	220/ 50, 60	Asia, Oceania	A292-29	H4710700565
Ricoh Aficio 551	230/50	China	A292-69	H47107XXXXX
Lanier 5470 AG	120/ 60	USA, Canada, S. America	A293-14	L0721060051
Gestetner 3370	120/ 60	Europe, etc.	A293-22	H4810700001
nashuatec D570				
Rex Rotary 2970				
Lanier 5470 AH	220, 230, 240/ 50, 60	Europe	A293-24	L0721070181
infotec 4700 MF	220, 230, 240/ 50, 60	Europe, etc.	A293-26	4D50710001
Ricoh Aficio 700	220, 230, 240/ 50, 60	Europe, etc.	A293-27	H4810700251
Ricoh Aficio 700	230/50	Korea	A293-28	H4810700514
Ricoh Aficio 700	220/ 50, 60	Asia, Oceania	A293-29	H4810700524

REI (U.S.A.) Production

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
Savin 2055DP	120 / 60	USA, Canada, South America	A292-15	H4715500222
Gestetner 3355				
Ricoh Aficio 551	120 / 60	USA, Canada, South America	A292-17	H4715500127
Savin 2070DP	120 / 60	USA, Canada, South America	A293-15	H4815500001
Gestetner 3370				
Ricoh Aficio 700	120 / 60	USA, Canada, South America	A293-17	H4815500122

Model: Mojito		Date: 31-Aug-01	No.: RA293022
Subject: Service Manual		Prepared by: K. Kitajima	
From: Technical Services Dept.,GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input checked="" type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other ()		

Please add the following SC description to your Service Manuals:

Page 7-38

SC966: No laser writing signal (F-GATE) error 2

- Definition - [B]

The level of the laser writing signal (F-GATE) fails to reach LOW for more than 15 seconds after the copy paper reaches the registration sensor.

- Possible causes -

- Poor cable connection with the polygon mirror motor driver
- Polygon mirror motor (driver) defective
- BICU defective

Reissued: 08-Jan-02

Model: Mojito	Date: 20-Sep-01	No.: RA293023a
---------------	-----------------	----------------

RTB Correction

The items (SP1-105-3 Settings) in bold italics have been corrected.

Subject: Service Manual		Prepared by: F.Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Please apply the following corrections to your Service Manual SP mode tables:

Page 4-11 Correction

4.4.2 SERVICE PROGRAM MODE TABLE

Incorrect:

Mode No. (Class 1, 2 & 3)				Function	Settings
1-105	Fusing Temperature Adjustment				
	1	By-pass	*	Adjusts the fusing temperature for paper fed from the by-pass tray .	170 ~ 200 1°C/step 185°C
	2	OHP	*	Adjusts the fusing temperature for OHP sheets fed from the by-pass feed unit.	+10 ~ -10°C 1°C/step 0 (165°C)
	3	Thick Paper	*	Adjusts the fusing temperature for thick paper fed from the by-pass feed unit.	+5 ~ -10°C 1°C/step 0 (195°C)

Correct:

Mode No. (Class 1, 2 & 3)				Function	Settings
1-105	Fusing Temperature Adjustment				
	1	Trays except by-pass tray	*	Adjusts the fusing temperature for paper fed from trays except the by-pass tray .	170 ~ 200 1°C/step 185°C
	2	OHP	*	Adjusts the fusing temperature for OHP sheets fed from the by-pass feed unit.	+10 ~ -10°C 1°C/step 0 (165°C)
	3	Thick Paper	*	Adjusts the fusing temperature for thick paper fed from the by-pass feed unit.	+5 ~ -10°C 1°C/step 0 (195°C)

Reissued: 24-Jan-02

Model: Mojito	Date: 17-Jul-00	No.: RA293009b
---------------	-----------------	----------------

RTB Correction

The cut-in serial number (items in bold italics) for 120V version machines have been added.

Subject: SC 124,501,502,503,362 (all versions)		Prepared by: F.Noguchi	
From: Technical Services Dept., GTS Division			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

SYMPTOM

One of the following SCs is activated when the power is turned on by the weekly timer or by the operation switch (upper right of the panel):

- | | |
|---------------------------------------|--|
| SC124: Scanner motor encoder error | SC501: 1 st tray lift malfunction |
| SC335: Polygonal mirror motor error 1 | SC502: 2 nd tray lift malfunction |
| SC362: Hard disk detector error | SC503: 3 rd tray lift malfunction |
| SC493: Exhaust fan motor lock | SC520: Duplex jogger motor error 1 |
| SC494: Fusing exhaust fan motor lock | |

CAUSE

When the power is turned on, the supply of voltage through the 24V line is slow.

FIELD ACTION

The occurrence rate is predicted to be extremely low, because the range of tolerance for the start-up current **in PSUs for both 120V and 220-240V machines** is about +/- 20%. If you receive reports of any of the SCs mentioned above, please do the following procedure:

1. Set the machine to turn off with the weekly timer.
2. After the machine has turned off, turn the operation switch on and off at least ten times.
3. When any of the SCs listed above is activated, please replace the PSU board.
If none are activated, please check other possible causes for the SCs reported.

Note: The PSU boards themselves cannot be modified in the field. Therefore, all PSUs now in service parts stock are either modified units or previous units that were found to have no problems (see below for details). The part number for the PSU has not been changed.

Reissued: 24-Jan-02

Model: Mojito

Date: 17-Jul-00

No.: RA293009b

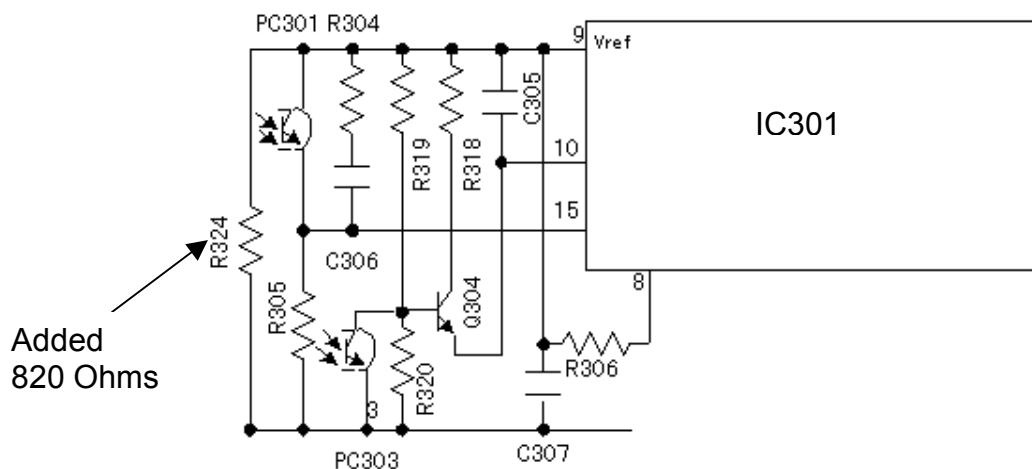
COUNTERMEASURE

Temporary

The PSUs in service parts stock have been checked and the units with defective boards have been sorted out using the IC301-9 output signatures.

Permanent

An 820 Ohm (1/4w) resistor has been added to the PSU board. In order to do this, the board pattern was changed.



Cut-in serial Numbers

The modified PSUs have been used in production machines from the following serial numbers:

For 120V versions

		<i>Temporary</i>	<i>Permanent</i>
A292	-14	From 1st production	L0710060001 ~
	-15	From 1st production	H4705800002 ~
	-17	From 1st production	H4705800301 ~
	-19	From 1st production	H4700700958 ~
A293	-14	From 1st production	L0720060001 ~
	-15	From 1st production	H4805800156 ~
	-17	From 1st production	H4805700487 ~

Reissued: 24-Jan-02

Model: Mojito	Date: 17-Jul-00	No.: RA293009b
---------------	-----------------	----------------

For 220-240V versions

		Temporary	Permanent
A292	-22	----	H4700600123 ~
	-24	L0710060126 ~	L0710070136 ~
	-26	----	4D60600001 ~
	-27	H4700500599 ~	H4700600371 ~
	-29	H4700500616 ~	H4700600023 ~
A293	-22	----	H4800600001 ~
	-24	L0720060126 ~	L0720070105 ~
	-26	----	4D50600001 ~
	-27	H4800500101 ~	H4800600173 ~
	-29	H4800500559 ~	H4800600426 ~

Reissued: 1-Mar-02

Model: Mojito	Date: 9-Jun-00	No.: RA293005h
---------------	----------------	----------------

RTB Correction

Version 3.18 has been added.

Subject: BICU firmware Modification History		Prepared by: M. Kitajima	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Modification histories of the BICU firmware.

As there five types of firmware, use the appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	A293 7553	A292 -15, -17, A293 -15, -17
		US English, French, Spanish
Eu1_Asia	A293 7563	A292 -19, -22, -26, -27, -29, A293 -22, -26, -27, -29
		English, French, Spanish, German, Italian, Dutch
Eu2	A293 7564	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	A293 7565	A292 -22, -26, -27, A293 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech
Eu3(Lanier)	A293 7566	A292 -14, -24, A293 -14, -24
		English, German, Portuguese, Polish, Czech

Destination/ Part Number	America A293 7553	Eu1_Asia A293 7563	Eu2 A293 7564	Eu3 A293 7565	Eu3(Lanier) A293 7566	RTB issue date
Version/Suffix						
3.1	C	C	-	-	-	09-Jun-00
3.5	D	D	A	A	A	06-Jul-00
3.5.1	E	E	B	B	B	06-Jul-00
3.6	F	F	C	C	C	30-Aug-00
3.11	G	G	D	D	D	08-Dec-00
3.11.1	H	H	E	E	E	22-Dec-00
3.13	J	J	F	F	F	26-Feb-01
3.16	K	K	G	G	G	26-Jun-01
3.17	L	L	H	H	H	01-Aug-01
3.18	M	M	J	J	J	01-Mar-02

Reissued: 1-Mar-02

Model: Mojito	Date: 9-Jun-00	No.: RA293005h
---------------	----------------	----------------

Version 3.18

Destination/	America	Eu1_Asia	Eu2	Eu3	Eu3(Lanier)
Part Number	A293 7553M	A293 7563M	A293 7564J	A293 7565J	A293 7566J
Check Sum	EE37	8756	8B09	BD79	9BC2

1. Off Line Indication**Symptom**

"Off Line" is indicated in the message area of the sample print display screen.

2. Convert Paper Size and Wide A4 menu addition

"Convert Paper Size" and "Wide A4" have been added to the Printer Features Menu.

Note: To enable both features, printer controller firmware ver. 0.54 must be installed.

Model: Mojito		Date: 11-Mar-02	No.: RA293024
Subject: Printer Controller (B337) System Firmware Histories		Prepared by: M.Matsuda	
From: Technical Services Dept., GTS Division			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Other (Information)		

Modification history for the system firmware of the Printer Controller Type 700 (B337).

Note that there are two types of firmware, both of which have been designed for specific brands as shown below:

Destination	Part Number	Product Codes/Brands
Generic	B337 5800	B337-01, -10, -15, -17
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec
Lanier	B337 5814	B337-14
		Lanier

- Firmware Version and Part Number Suffix for Each Destination -

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814
Version	Suffix	Suffix
0.40	None	None
0.43	A	A
0.46	B	B
0.49	D	D
0.54	E	E

Model: Mojito

Date: 11-Mar-02

No.: RA293024

Version 0.49

Part Number	FTP Folder	Model Codes/Languages
B337 5800 D	GEN.al	B337-01, -10, -15, -17
B337 5814 D	LAN.al	B337-14

1. Symptom

Vertical lines on Excel spreadsheet files do not appear on the printouts.

2. Symptom

Auto tray switching malfunction.

3. Symptom

Extra blank sheets are printed out in a mixed job of letter and legal with the AS400.

4. Symptom

The machine would not staple up to the maximum number of pages allowed by 3000-sheet Finisher specifications.

5. A fax counter has been added to the MIB.

6. Symptom

Booklet mode printing error.

Version 0.54

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 E	GEN.al	EC70	B337-01, -10, -15, -17
B337 5814 E	LAN.al	EC70	B337-14

1. Supports Wide A4 printing.

Note: Engine firmware v3.18 or later must be used.

2. Supports A4/Letter function.

Note: Engine firmware v3.17 or later must be used.

3. Symptom

Error when using the Cover Page function with Macintosh.

4. Symptom

SC2002 occurs when sending a print job using the User Code immediately after the power is turned off and on.

5. Symptom

SC2001 occurs when the "USTATUS TIMED" and "USTATUSOFF" commands are sent.

Model: Mojito

Date: 11-Mar-02

No.: RA293024

6. Symptom

A blank page is printed out when printing from a UNIX environment.

7. Shift Tray settings can now be controlled from the SP Mode main menu.

Note: Main firmware ver3.17 must be installed.

8. Auto Continue for the staple end and punch waste collector full conditions can now be enabled/disabled from inside UP Mode.**9. “prtInputName” and “prtOutputName” (NIB) for each language have been changed to their English names.**

Model: Mojito		Date: 10-Jun-02	No.: RA293025
Subject: Printer Controller (G594) System Firmware History		Prepared by: S.Orita	
From: Technical Services sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Other (Information)		

Modification history of the Printer Controller EB-70 (G594) system firmware.

Firmware Modification History

1. System firmware version: 1.0.0

Patch File	Issue(s)
1-1TIC8	SC occurs with high volume documentation printing.
1-1OQ5	1. Delays in RIP time when using the RIP and Hold option in Command Workstation (CWS). 2. Problems using Websetup with Windows 2000 or Windows ME. 3. Not possible to use the Cancel Print option in CWS with specific files.

2. System firmware version: 1.0.1

Note: This version includes the patch (1-1TIC8 and 1-1OQ5) for Version 1.0.0 and it was released as Version 1.01.

Patch File	Issue(s)
1-2NCA5	If memory increases to 128MB with the STE board, performance speed becomes slower than with 64MB of memory. SC occurs with high volume documentation printing.
1-2173X	"ricohEngSerialNumber" for Ricoh Private MIB not supported.
1-2MK1K	PCL5/300dpi: Print image is not correct after storing at the Document Server.
1-4YE69	When PS data with Booklet imposition is sent continuously, the job is cancelled.

Model: Mojito		Date: 16-Jul-02	No.: RA293026
Subject: Scanner bump		Prepared by: M. Matsuda	
From: Technical Services sec. Service Planning Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Other ()		

SYMPTOM

The scanner bumps the right frame and/or SC101, 120, or 129 occurs. In the worst case, this may result in damage to the first mirror, scanner drive screw or scanner drive shaft.

CAUSE

The scanner motor connector pins had deformed during the assembly process, caused in some cases by oxidization from insufficient quality control. This in turn caused the electrical resistance in these areas to increase, preventing the MCU board signals from being properly relayed to the scanner motor.

ACTION IN THE FIELD

Check to see that the scanner motor connector pins are properly connected.

PRODUCTION COUNTERMEASURE

- 1) An inspection process for the scanner motor connectors was added from July '01.
- 2) MCU Board modified from July '01 (see Additional Improvements below).

Model: Mojito

Date: 16-Jul-02

No.: RA293026

ADDITIONAL IMPROVEMENTS

In addition to the connector inspections, to further ensure that the damage described above does not occur, the MCU board was changed for more precise detection of SC124, a scanner error condition which halts all machine operation.

The P/N of the modified MCU board is **A2935180**, and was applied from July '01 production (previously announced in MB #MA293038; see cut-ins below).

Note: If poor contact does exist with the MCU connector pins, the symptom is most likely to occur just after installation. Therefore, even for machines with the previous MCU board (before July '01), the occurrence rate in the field is expected to be very low.

<< Cut-in S/N for Machines Containing Modified MCU Board >>

RCL (Japan) Production

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
Lanier 5455 AG	120/ 60	USA, Canada, S. America	A292-14	L0711080001
Ricoh Aficio 551	120/60	Taiwan	A292-19	H47108xxxxx
Gestetner 3355 nashuatec D555 Rex Rotary 2955	120/ 60	Europe, etc.	A292-22	H4710700622
Lanier 5455 AH	220, 230, 240/ 50, 60	Europe	A292-24	L0711070292
infotec 4551 MF	220, 230, 240/ 50, 60	Europe, etc.	A292-26	4D60810001
Ricoh Aficio 551	220, 230, 240/ 50, 60	Europe, etc.	A292-27	H4710700356
Ricoh Aficio 700	230/50	Korea	A292-28	H4710800114
Ricoh Aficio 551	220/ 50, 60	Asia, Oceania	A292-29	H4710800001
Ricoh Aficio 551	230/50	China	A292-69	H4710900061
Lanier 5470 AG	120/ 60	USA, Canada, S. America	A293-14	L0721070001
Gestetner 3370 nashuatec D570 Rex Rotary 2970	120/ 60	Europe, etc.	A293-22	H4810700126
Lanier 5470 AH	220, 230, 240/ 50, 60	Europe	A293-24	L0721070181
infotec 4700 MF	220, 230, 240/ 50, 60	Europe, etc.	A293-26	4D50810001
Ricoh Aficio 700	220, 230, 240/ 50, 60	Europe, etc.	A293-27	H4810700331
Ricoh Aficio 700	230/50	Korea	A293-28	H48108xxxxx
Ricoh Aficio 700	220/ 50, 60	Asia, Oceania	A293-29	H4810800001

Model: Mojito

Date: 16-Jul-02

No.: RA293026

REI (U.S.A.) Production

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
Savin 2055DP Gestetner 3355	120 / 60	USA, Canada, South America	A292-15	H4715600263
Ricoh Aficio 551	120 / 60	USA, Canada, South America	A292-17	H4715600780
Savin 2070DP Gestetner 3370	120 / 60	USA, Canada, South America	A293-15	H4815600001
Ricoh Aficio 700	120 / 60	USA, Canada, South America	A293-17	H4815700062

Reissued: 6-Nov-02

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027a
---------------------	----------------	----------------

RTB Correction

This RTB has been reissued to correct the following one item (PM table, pg. 5/49 below):

Incorrect: The expected life for the hot roller **increased:** B098: 150K A292/A293: 200K

Correct: The expected life for the hot roller **decreased:** B098: 150K A292/A293: 200K

Subject: Service Manual update for B098		Prepared by: F.Noguchi	
From: Technical Services sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

The Mojito-C2 will be released in October 2002 as the successor to the Mojito-C1. The following bulletin contains all service-related information unique to the Mojito-C2 (pp. 8 to 49 below). Please see pp. 2-8 below for a summary, and then add the new information to the existing Mojito-C1 Service Manual.

Note:

1. The model code for the Mojito-C2 is B098, as there are some components and new mechanisms in the Mojito-C2 that are not interchangeable with its predecessor.

Model	Machine code	Copy Speed (cpm)
Mojito-C1	A292	55
	A293	70
Mojito-C2	B098	55

2. Among these differences is the Mojito-C2's newly designed hot roller for soft fusing, a process whereby the toner is fused to the copy paper more efficiently and with less pressure than with conventional fusing systems.

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

The following are the unique points for the Mojito-C2.

Section	Item	Description
1 OVERALL MACHINE INFORMATION		
1.1 Specification	1.1.1 Copier Engine	
	Copy Speed	Max. 55 cpm (A292: Max. 55cpm, A293: Max. 70cpm)
	Resolution:	Scanning/Printing: 600 dpi (A292/A293: Scanning: 600dpi Printing: 400/600 dpi)
	Toner Yield	46k copies (A292/A293: 43k copies)
	Power Consumption	(Refer to attached page)
	Noise Emission	(Refer to attached page)
	Optional Equipment	(Refer to attached page) Color of the exterior changed for B098
1.2 Machine Configuration		(Refer to attached page)
1.7 Electrical Component	1.7.1 Copier Engine	
	M3: LD Positioning Motor	• This part has been deleted.
	S5: LD Home Position Sensor	• This part has been deleted
	M27/M28: Exit cooling fan Motor1/2	• Fan motor type changed (2 exit cooling fans are used).
	TS1/2: Thermostat1/2	• Two thermostats used instead of a thermofuse to further ensure fusing temperature remains within limits.
2 DETAILED DESCRIPTION		
2.4 Laser Exposure	2.4.3 Laser Beam Pitch Change mechanism	• Mechanism deleted.
2.9 Image Fusing	2.9.1 Overview	<ul style="list-style-type: none"> • This model uses a newly designed hot roller for soft fusing, a process whereby the toner is fused to the copy paper more efficiently and with less pressure than the conventional fusing system. • Two thermostats used instead of a thermofuse to further ensure fusing temperature remains within limits.
2.11 Energy Saver Modes	2.11.1 Low power Mode	<ul style="list-style-type: none"> • To meet Energy Star requirements, the fusing temperature has been decreased in low power mode as follows: Recovery time: less than 30 seconds Fusing temperature: 160°C(NA), 155°C (EU)

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

Section	Item	Description
Section: 3 INSTALLATION PROCEDURE		
3.2 Copier (A292/A293, B098)	3.2.1 Accessory Check	<ul style="list-style-type: none"> Accessory list for the #B098 added.
	3.2.2 Installation Procedure	<ul style="list-style-type: none"> Type of leveling shoe changed. Three more steps added for the internal clock setting.
3.3 LCT (A698/B587)		<ul style="list-style-type: none"> The B587 LCT is for the B098 copier.
	3.3.1 Accessory Check	<ul style="list-style-type: none"> NECR deleted.
	3.3.2 Installation Procedure	<ul style="list-style-type: none"> Factory setting of DIPSW-1 added to step 15 as follows: B587: 288.3rpm A698: 270rpm
3.4 3,000 Sheet Finisher (B312/B586)		<ul style="list-style-type: none"> The B586 finisher is for the B098 copier.
	3.4.1 Accessory Check	<ul style="list-style-type: none"> The following accessories have been deleted. <ul style="list-style-type: none"> – Exit Guide Mylar – Staple Position Decal – NECR
	3.4.2 Installation Procedure	<ul style="list-style-type: none"> #B098 has been added to step 4 Step 11 deleted.
3.5 Punch unit for B312/B586 Finisher		<ul style="list-style-type: none"> B586 finisher is for the B098 copier.
3.6 Finisher (B302)		<ul style="list-style-type: none"> B302 finisher is not for the B098 copier.
3.7 Punch unit for B302 Finisher		<ul style="list-style-type: none"> B302 finisher is not for the B098 copier.
3.10 LG Kit (B375/B588)		<ul style="list-style-type: none"> The LG Kit B588 is for the B098 copier
	3.10.2 Installation Procedure	<ul style="list-style-type: none"> Steps 12 and 13: The end fence can be changed to feed LTR (81/2"x11") with SP5-019.
4. SERVICE TABLE		
4.2 Service Program Mode	4.2.2 Service program Mode Tables	
	1-105-4: Thick paper	<ul style="list-style-type: none"> Fusing temperature adjustment for thick paper (105g/m², 28lb bond or heavier) fed from the by-pass feed table. Factory setting: 195°C

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

Section	Item	Description
4. SERVICE TABLE		
4.2 Service Program Mode	1-107-1: Thick Paper 1 -2: Thick Paper 2	<ul style="list-style-type: none"> 1st copy temperature setting for thick paper 1 and 2 modes. Factory setting: 195°C
	1-108: Fusing Idling	<ul style="list-style-type: none"> Sets whether fusing idling is performed in thick paper 2 mode. Factory setting: OFF
	1-901-1: Thick Paper 1 -2: Thick Paper 2	<ul style="list-style-type: none"> CPM change for Special paper Factory settings have been changed. Factory setting: 1-901-1 NA:3 EU:3 1-901-2 NA:1 EU:1
	2-001-6 Thick Paper 1	<ul style="list-style-type: none"> Charge corona bias adjustment for thick paper 1 mode. Factory setting: -1000V
	2-001-7: Thick Paper 2	<ul style="list-style-type: none"> Charge corona bias adjustment for thick paper 2 mode. Factory setting: -900V
	2-103-1: LD1 - 400 dpi -3: LD1 - 400 dpi	<ul style="list-style-type: none"> LD1-400dpi power adjustments are for the A292/A293 only.
	2109: Laser Beam Pitch Adjustment	<ul style="list-style-type: none"> This SP mode is for the A292/A293 only.
	2-110: Test Mode dpi	<ul style="list-style-type: none"> This SP mode is for the A292/A293 only.
	2-201-5: Thick Paper 1	<ul style="list-style-type: none"> Development bias adjustment for thick paper 1 mode. Factory setting: -550V
	2-201-6: Thick Paper 2	<ul style="list-style-type: none"> Development bias adjustment for thick paper 2 mode. Factory setting: -450V
	5-849-1: Indication	<ul style="list-style-type: none"> Displays the date when the electrical counter is reset (SP7-825).
	5-849-2: Printout Setting	<ul style="list-style-type: none"> Sets whether the counter clear date is printed out on the counter print. Factory setting: Print
	5-970: Printer Installed	<ul style="list-style-type: none"> This SP mode is for the A292/A293 only.

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

Section	Item	Description
5. PREVENTIVE MAINTENANCE SHEDULE		
5.1 PM Table	Fusing/Paper Exit	<ul style="list-style-type: none"> The expected life for the hot roller decreased: B098: 150K A292/A293: 200K
	LCT	<ul style="list-style-type: none"> #B587 added.
	3,000- Sheet Finisher (50-sheet Stapler)	<ul style="list-style-type: none"> #B586 added.
6. REPLACEMENT AND ADJUSTMENTPREVENTIVE MAINTENANCE SHEDULE		
6.2 Document Feeder	6.2.1 Cover Removal	
	Left Cover Removal	<ul style="list-style-type: none"> Step 3 changed: 1 screw, 2 connectors
	Right Lower Cover Removal	<ul style="list-style-type: none"> This removal has been added.
	Upper Exit Cover Removal	<ul style="list-style-type: none"> Step 1 added.
	6.2.5 Sensor Replacement	
	Registration sensor	<ul style="list-style-type: none"> Step 2 added. Step 3 changed: B098: 3 screws
	Inverter Sensor	<ul style="list-style-type: none"> Step 2 added
	6.2.6 Transport Belt Replacement	
	Step 2	<ul style="list-style-type: none"> This is for the A292/A293 only.
	Step 3	<ul style="list-style-type: none"> B098: 3 screws A292/A293: 4 screws
6.4 Laser Unit	6.4.1 Caution Decal Locations	
		<ul style="list-style-type: none"> Position of the decal changed.
	6.4.2 LD Unit Replacement	
	Step 3	<ul style="list-style-type: none"> B098: 2 screws, 4 connectors A292/A293: 2 screws, 6 connectors
	Step 6	<ul style="list-style-type: none"> This is for the A292/A293 only.
	6.4.2 Laser Beam Pitch Adjustment	
		<ul style="list-style-type: none"> B098: Manual adjustment procedure added. A292/A293: Auto adjustment using SP2109
6.8 Paper Feed	6.8.1 Paper Tray Removal	
	Universal Trays Removal	<ul style="list-style-type: none"> This removal has been added.

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

Section	Item	Description
6. REPLACEMENT AND ADJUSTMENT PREVENTIVE MAINTENANCE SCHEDULE		
6.9 Fusing Unit	6.9.2 Fusing Thermistor / Thermofuse / Thermostat Removal	
	Fusing Thermofuse	• This is for the A292/A293 only.
	Fusing Thermostat	• This removal has been added.
	6.9.5 Oil Supply Roller Replacement	
	The lot number of the oil supply roller	• The lot number is stamped on the oil supply roller.
	6.9.8 Hot Roller Stripper Pawl Replacement	
		• This removal has been added.
7. TROUBLESHOOTING		
7.1 Service call Conditions	7.1.1 Summary	
		• The SC code level table modified for use with the "Remote Service System (Concord)".
	7.1.2 SC Code Descriptions	
	All SC	• Definition has been changed for use with the "Remote Service System (Concord)".
	SC327 to 332 for LD Unit	• This is for the A292/A293 only.
	SC626	• This code is displayed on B098 machines with the finisher or mailbox installed.
APPENDIX		
Point to point and Electrical Component Layout		(Refer to attached page).
PRINTER CONTROLLER		
1. Overall Machine Information	1.1 Introduction	• B098 added.
	1.2 Specification	
	Printing Speed	• B098 added.
	1.3. Software	
	1.3.1 Printer Drivers	• Windows2000/XP added.
	1.4 Machine Configuration	• (Refer to attached page).
	1.5 Structure	
	1.5.1 Block Diagram	• B098 added to the BICU in the block diagram.
	1.5.2 Description	• B098 added to the motherboard.

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

PRINTER CONTROLLER		
2.Detailed Section Descriptions	2.1 Hardware Overview	<ul style="list-style-type: none"> B098 added to the BICU in the block diagram.
3. Installation	3.1 Printer Controller (B335/B336)	
		<ul style="list-style-type: none"> B335 is for the A295 copier. B336 is for the A294 copier.
	3.2 Printer Controller (B337/B590)	
		<ul style="list-style-type: none"> B337 is for the A292/A293 copiers. B590 is for the B098 copier.
	3.2.2 Installation Procedure	<ul style="list-style-type: none"> Step 4 changed.
	3.4 Postscript Kit (B338/B339)	
		<ul style="list-style-type: none"> B338 is for the A294/A295 copiers. B339 is for the B098 copier.
5. Replacement and Adjustment	5.1 Printer Controller Board	
		<ul style="list-style-type: none"> B098 added to Steps 2 and 3.

1. OVERALL MACHINE INFORMATION

1.1 SPECIFICATION

1.1.1 COPIER ENGINE

Copy Speed: A292: Max. 55 cpm (A4 / 8 1/2" x 11" sideways)
A293: Max. 70 cpm (A4 / 8 1/2" x 11" sideways)
B098: Max. 55 cpm (A4 / 8 1/2" x 11" sideways)

Resolution:

	Scanning	Printing
A292/A293	600 dpi	400/600 dpi
B098	600dpi	600 dpi

Toner Yield: A292/A293: 43k copies/cartridge
B098: 46k copies/cartridge
(A4 sideways, 6% full black, 1 to 5 copying, including toner recycling ratio 20%)

Power Consumption: B098 copier (120 V Model)

	Copier only	Full system*
Warm-up	About 1.200 kW	About 1.200 kW
Stand-by	About 0.271 kW	About 0.292 kW
Copying	About 1.400 kW	About 1.500 kW
Maximum	Less than 1.75 kW	Less than 1.85 kW
Energy Saver	About 0.260 kW	About 0.290 kW
Low Power	About 0.207 kW	About 0.230 kW
Off Mode	About 0.009 kW	About 0.023 kW

B098 copier (220 to 240 V Model)

	Copier only	Full system*
Warm-up	About 1.200 kW	About 1.200 kW
Stand-by	About 0.281 kW	About 0.303 kW
Copying	About 1.400 kW	About 1.400 kW
Maximum	Less than 1.75 kW	Less than 1.75 kW
Energy Saver	About 0.256 kW	About 0.278 kW
Low Power	About 0.212 kW	About 0.240 kW
Off Model	About 0.012 kW	About 0.025 kW

*Full System A292/A293: Mainframe with LCT (A698) and Finisher (B302)
B098: Mainframe with LCT (B587), Finisher (B586) and Printer Controller (B590)

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

Noise Emission:

Sound Power Level: The measurements were made in accordance with ISO 7779 at the operator position.

	Copier only		Full system	
	A292/A293	B098	A292/A293	B098
Stand-by	Less than 49 dB(A)	Less than 49 dB(A)	Less than 49 dB(A)	Less than 49 dB(A)
Copying (ADF 1 to 1)	Less than 75 dB(A)	Less than 74 dB(A)	Less than 75 dB(A)	Less than 74 dB(A)
Copying (From Memory)	Less than 71 dB(A)	Less than 71 dB(A)	Less than 71 dB(A)	Less than 71 dB(A)

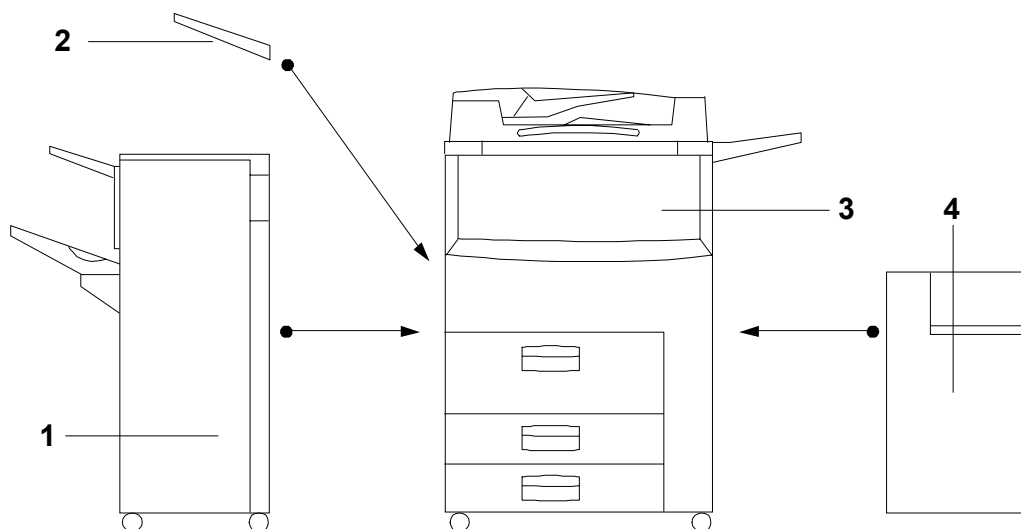
Sound Pressure Level: The measurements were made in accordance with ISO 7779 at the operator position.

	Copier only		Full system	
	A292/A293	B098	A292/A293	B098
Stand-by	Less than 35 dB(A)	Less than 37 dB(A)	Less than 35 dB(A)	Less than 38 dB(A)
Copying (ADF 1 to 1)	Less than 65 dB(A)	Less than 64 dB(A)	Less than 65 dB(A)	Less than 64 dB(A)
Copying (From Memory)	Less than 58 dB(A)	Less than 58 dB(A)	Less than 58 dB(A)	Less than 56 dB(A)

Optional Equipment

A292/A293	B098
<ul style="list-style-type: none"> • Output tray (B333-17) • Finisher (A763) • Finisher (B302) • Finisher (B312) • Punch unit (A812-30, -31, -32, -57, 67) • Large capacity tray (A698) • Copy connector kit (B322) • LG kit (A375) • Tab sheet holder (B373) 	<ul style="list-style-type: none"> • Output tray (B476-17) • Finisher (B586) • Punch unit (A812-30, -31, -32, -57, 67) • Large capacity tray (B587) • Copy connector kit (B322) • LG kit (B588) • Tab sheet holder (B373)

1.2 MACHINE CONFIGURATION



A293V551.WMF

Item	Machine Code		No.
Mainframe	A292/A293	B098	3
Output Tray	B333	B476	2
Finisher	A763, B302, B312	B586	1
Large Capacity Tray	A698	B587	4
Punch Unit (Option for Finisher)	A812-30	(4 holes)	Inside the Finisher
	A812-31	(4 holes)	
	A812-32	(2 holes)	
	A812-57	(3 holes)	
	A812-67	(2 holes)	
Copy Connector Kit (for the tandem copy feature)	B322		
LG Kit (Option for large capacity tray)	B375	B588	
Tab Sheet Holder	B373		

1.7 ELECTRICAL COMPONENT

1.7.1 COPIER ENGINE

Symbol	Name	Function	Index No.
Motors			
M3	LD Positioning <i>(for A292/A293 only)</i>	Rotates the LD unit to adjust the LD beam pitch when a different resolution is selected.	25
M24	Exit Cooling Fan <i>(for A292/A293 only)</i>	Removes heat from the exit unit.	45
M27	Exit Cooling Fan 1 <i>(for B098 only)</i>	Removes heat from around the PSU	145
M28	Exit Cooling Fan 2 <i>(for B098 only)</i>	Removes heat from around the PSU	146
S5	LD Unit Home Position <i>(for A292/A293 only)</i>	Informs the CPU when the LD unit is at home position.	24
TF1	Fusing Thermofuse <i>(for A292/A293 only)</i>	Opens the fusing lamp circuit if the fusing unit overheats.	61
TS 1	Thermostat 1 <i>(for B098 only)</i>	Opens the fusing lamp circuit if the fusing unit overheats.	143
TS 2	Thermostat 2 <i>(for B098 only)</i>	Opens the fusing lamp circuit if the fusing unit overheats.	144

2. DETAILED DESCRIPTION

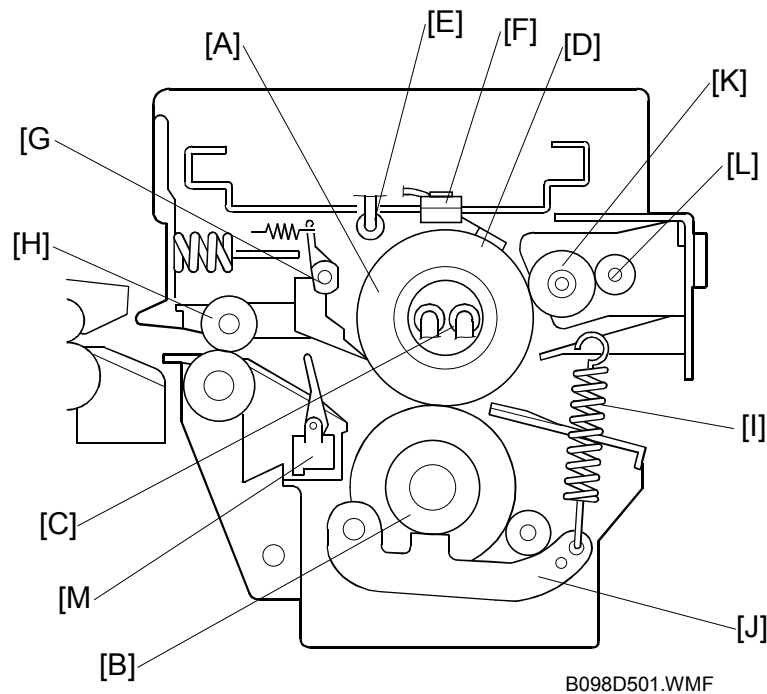
2.4 LASER EXPOSURE

2.4.3. LASER BEAM PITCH CHANGE MECHANISM

(for A292/A293 only)

2.9 IMAGE FUSING

2.9.1 OVERVIEW



After the developed latent image is transferred from the drum to the paper, the copy paper enters the fusing unit. Then the image is fused to the copy paper by a heat and pressure process through the use of a hot roller [A] and a pressure roller [B].

There are two fusing lamps [C] in the hot roller. Both lamps are 550 W lamps. They switch on and off at the same time.

The fusing lamps turn on and off to keep the operating temperature at 185°C. The CPU monitors the hot roller surface temperature through a thermistor [D] which is in contact with the hot roller surface. A thermofuse (A292/A293) [E] /thermostats (B098) [F] protects the fusing unit from overheating.

The hot roller strippers [G] separate the copy paper from the hot roller and direct it to the fusing exit rollers [H]. The exit sensor in the inverter and paper exit unit monitors the progress of the copy paper through the fusing unit and acts as a misfeed detector while the exit rollers feed the copy paper to the inverter section.

The hooking position of the tension springs [I] on the pressure lever [J] adjusts the roller pressure.

The oil supply roller [K] applies a light coat of silicone oil to the hot roller. The oil supply cleaning roller [L] removes the paper dust attached to the cleaning roller.

The fusing sensor [M] detects concertina jams at the fusing unit exit. This sensor is needed because the user may not see this type of jam inside the machine when removing jams at the exit.

2.11 ENERGY SAVER MODES

2.11.1 LOW POWER MODE

What happens in low power mode

The fusing lamp drops to a certain temperature, that depends on the setting of SP5-920. The other conditions are the same as for energy saver mode.

Return to stand-by mode

The machine returns to standby mode in exactly the same way as from energy saver mode.

The recovery time from low power mode depends on the setting of SP5-920.

Model	Recovery Time	Operation Switch	Energy Saver LED	Fusing Temp. (SP5-920)	System +5V	Main Power LED
A292/	About 20 seconds	On	On	170 °C (NA) 160 °C (EU)	On	On
A293	About 20 seconds	On	On	177°C	On	On
B098	Less than 30 seconds	On	On	160°C (NA) 155°C (EU)	On	On

3. INSTALLATION PROCEDURE

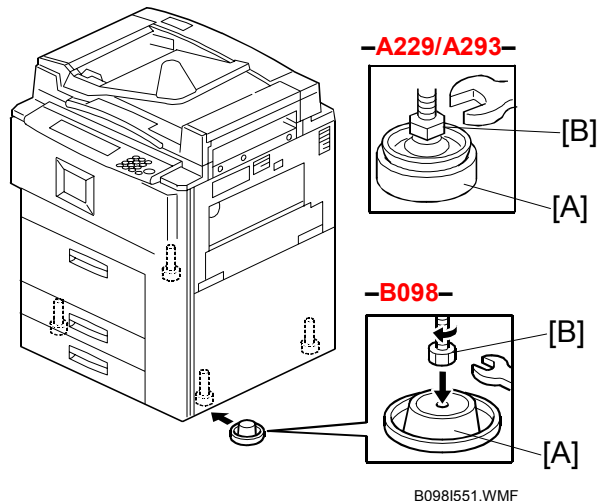
3.2 COPIER (A292/A293/B098)

3.2.1 ACCESSORY CHECK

Check the quantity and condition of the accessories in the box against the following list:

Description	Q'ty
1. Model Name Decal	1
A292/A293: -15, -22 machines	
B098: -22 machines	
2. Operation Instructions – English	1
A292/A293: -15, -15, -17, -22, -26, -29 machines	
B098: -17, -26, -29 machines	
3. Operation Instructions – Chinese (-19, -69 machines)	1
4. Operation Instructions – Korean (-28 machines)	1

3.2.2 INSTALLATION PROCEDURE



- NOTE:**
- 1) Keep the shipping retainers after installing the machine. They will be reused if the machine is moved to another location in the future.
 - 2) Insert the leveling shoes [A] under the leveling feet [B] at the front, and level the machine before starting the installation. (The leveling feet [B] can be screwed up or down.) Extra leveling shoes and leveling feet are available as spare parts.

31. **For B098 only:** Exit SP mode.
32. **For B098 only:** Set the date and time for the copier's internal clock inside "User Tools":
 - 1) Press "User Tools/Counter" key.
 - 2) Select "System setting", then "Set Time" on the LCD.
 - 3) Select "Set Day" and enter the current date.
 - 4) Select "Set Time" and enter the current time.

NOTE: Make sure to set the date and time before Initializing the electrical copy counter (Step 34 below).
33. **For B098 only:** Exit "User Tools" and enter SP mode.

3.3 LCT (A698/B587)

The LCT: A698 is for the A292/A293 copiers.

The LCT: B587 is for B098 copier only.

3.3.1 ACCESSORY CHECK

Description	Q'ty
7. New Equipment Condition Report (A698 only)	1

3.3.2 INSTALLATION PROCEDURE

15. Connect the connectors.
 - Between the copier and the LCT (2 connectors).
 - Between the LCT and the LCT feed unit (2 connectors).

NOTE: Confirm that DIPSW1 [A] is set to 288.3rpm. If it is not, change the switch to this setting.

Factory setting of the DIPSW1: A698 ---270 rpm
B587 ---288.3 rpm

3.4 3,000-SHEET FINISHER (B312/B586)

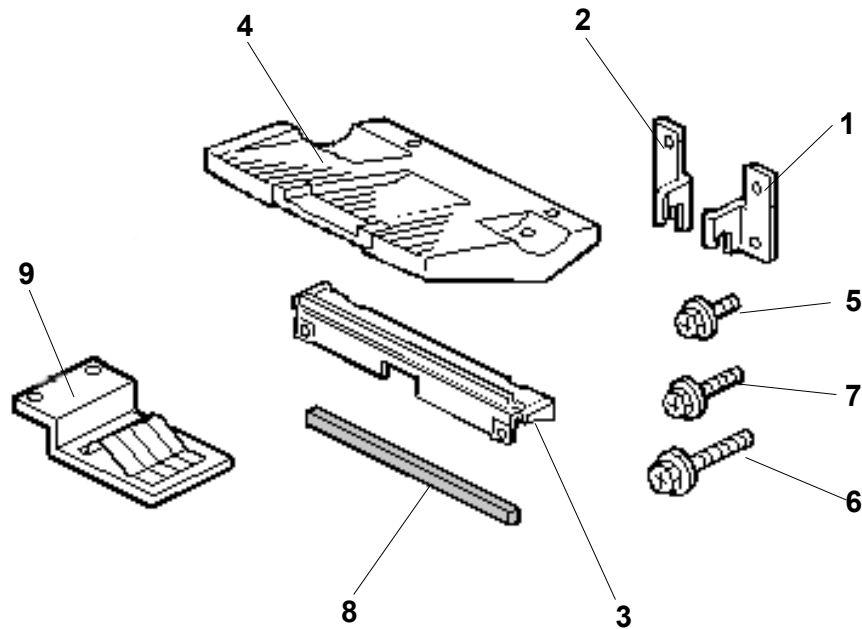
The 3.000-sheet finisher: B312 is for the A292/A293 copiers.

The 3.000-sheet finisher: B586 is for the B098 copier only.

3.4.1 ACCESSORY CHECK

Check the accessories in the box according to the following list:

No.	Description	Q'ty
1	Front Joint Bracket	1
2	Rear Joint Bracket	1
3	Entrance Guide Plate	1
4	Shift Tray	1
5	Tapping Screw - M3 x 6	4
6	Tapping Screw - M4 x 14	4
7	Tapping Screw - M3 x 8	4
8	Cushion	1
9	Lower Grounding Plate	1
10	Installation Procedure (English)	1
11	Exit Guide Mylar (B312 only)	1
12	Staple Position Decal (B312 only)	1
13	New Equipment Condition Report (B312 only)	1



B586I512.PCX

3.4.2 INSTALLATION PROCEDURE

4. The position of the cushion [D] varies depending on which base copier or peripherals that are installed. Attach the cushion on the plate as follows:
 - Position [E] for A292/A293 **and B098 copiers.**
 - Position [F] for when the optional mailbox (**G909 for A292/A293**) is installed.

11. **For B312 only:** Attach the staple position decal [F] to the ARDF as shown.

3.5 PUNCH UNIT INSTALLATION (A812) **FOR B312/B586 FINISHER**

The 3.000-sheet finisher: B312 is for the A292/A293 copiers.

The 3.000-sheet finisher: B586 is for the B098 copier only.

3.6 FINISHER (B302)

The finisher: B302 is for the A292/A293 copiers.

3.7 PUNCH UNIT INSTALLATION (A812) **FOR B302 FINISHER**

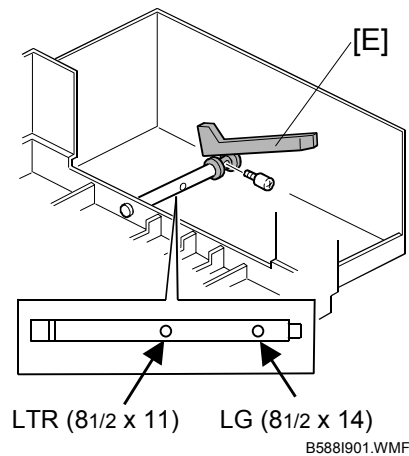
The finisher: B302 is for the A292/A293 copiers.

3.10 LG KIT (B375/B588)

The LG Kit: B375 is for the A292/A293 copiers.

The LG Kit: B588 is for the B098 copier only.

3.10.2 INSTALLATION PROSEDURE



12. Install the LCT right cover [C] and LG tray cover [D] (3 screws).

NOTE: For B588 only:

If the customer requests to use the LTR (lengthwise) size paper, reposition the end fence [E] from original position to LTR size paper position (1 screw).

13. Turn on the copier main switch and input the paper size with SP5-019.

For B375: LG

For B588: LG or LTR (lengthwise)

4. SERVICE TABLE

4.2 SERVICE PROGRAM MODE

4.2.2 service program mode tables

Mode No. (Class 1 , 2 & 3)		Function		Settings
1-105	Fusing Temperature Adjustment			
	4	Thick Paper2	* Adjusts the fusing temperature for thick paper (105 g/m², 28 lb Bond or heavier) fed from the by-pass feed unit. <i>(B098 only)</i> <i>This SP mode is useful when the Low Temp. Environment is selected in the user tools. When copying onto thick paper, the first copy time may be longer.</i>	185 ~ 200°C 1°C/step 195°C
1-107	1st Copy Temperature Setting (B098 only)			
	1	Thick Paper 1	* Adjusts the 1st copy temperature for thick paper 1 mode.	185 ~ 200°C 1°C/step 195°C
	2	Thick Paper 2	* Adjusts the 1st copy temperature for thick paper 2 mode.	
1-108	Fusing Idling - Thick Paper 2 (B098 only)			
			* Selects whether fusing idling is done or not in thick paper –2 mode. <i>The first copy time is longer when ON.</i>	0: OFF 1: ON
1-901	CPM Change for Special Paper (NA: North America, EU: Europe)			
	1	for A292/A293 Thick Paper 1	* Selects the copy speed when the paper setting for the by-pass table is thick paper.	0: 25 cpm 1: 35 cpm 2: 45 cpm 3: 55 cpm for 292/A293 NA: 3 EU: 2 For B098 NA: 3 EU: 3
		for B098 Thick Paper 1	Select the copy speed when Thick Paper 1 is selected from user tools.	
	2	for A292/A293 Tab Stack	* Selects the copy speed when the paper setting for the 2nd tray is tab stack.	0: 25 cpm 1: 35 cpm 2: 45 cpm 3: 55 cpm for 292/A293 NA: 2 EU: 0 for B098 NA: 1 EU: 1
		for B098 Thick Paper 2	Selects the copy speed when Thick paper 2 is selected from user tools.	

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027
---------------------	----------------	---------------

Mode No. (Class 1 , 2 & 3)			Function		Settings
2-001	Charge Corona Bias Adjustment				
	6	Thick Paper 1	*	Adjusts the voltage applied to the grid plate when thick paper 1 mode is selected. (B098 only)	-600 ~ -1300 10 V/step -1000 V
	7	Thick Paper 2	*	Adjusts the voltage applied to the grid plate when thick paper 2 mode is selected. (B098 only)	-600 ~ -1300 10 V/step -900 V
2-103	LD Power Adjustment				
	1	LD1 - 400dpi	*	Adjusts the power of LD1 for 400 dpi resolution. (A292/A293 only) Do not change the value.	-127 ~ +127 1/step 1=1.1 μW +0
	3	LD2 - 400dpi	*	Adjusts the power of LD2 for 400 dpi resolution. (A292/A293 only)	
2-109	Laser Beam Pitch Adjustment (A292/A293 only)				
2-110	Test Mode dpi (A292/A293 only)				
				Designer use only. Do not change this value.	0: 400 dpi 1: 600 dpi 2: 15.4 x 16 3: 16 x 15.4
2-201	Development Bias Adjustment				
	5	Thick Paper 1	*	Adjusts the development bias for thick paper.1 mode. (B098 only)	-200 ~ -700 10 V/step -550 V
	6	Thick Paper 2	*	Adjusts the development bias for thick paper.2 mode. (B098 only)	-200 ~ -700 10 V/step -450 V
5-849	Counter Clear Data (B098 only)				
	1	Indication	*	Display the date when resets the electrical total counter (7-825).	
	2	Print out setting	*	Selects whether or not the counter date is printed on the counter print.	0: No Print 1: Print
5-970	Printer Installed (A292/A293 only)				
			*	Selects whether the information “ Now loading.... Please wait” is displayed or not	0: No 1: Yes

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027
---------------------	----------------	---------------

5. PREVENTIVE MAINTENANCE SHEDULE

5.1 PM TABLE

	EM	150 K	300 K	450 K	Expected Life K	NOTE
FUSING/PAPER EXIT						
Hot Roller: A292/A293		I	I	I	200	
B098		I	I	I	150	

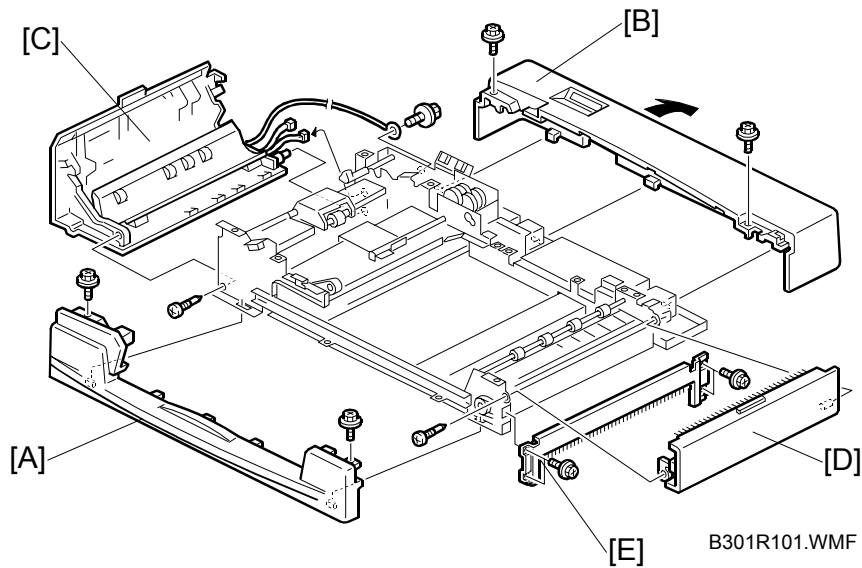
	EM	150 K	300 K	450 K	Expected Life K	NOTE
LCT (A698/B587)						

	EM	150 K	300 K	450 K	Expected Life K	NOTE
3,000-SHEET FINISHER (50-SHEET STAPLER): (B312/B586)						

6. REPLACEMENT AND ADJUSTMENT

6.2 DOCUMENT FEEDER

6.2.1 COVER REMOVAL



Left Cover Removal

1. Remove the front and rear covers.
2. Remove the grounding wire (1 screw).
3. Remove the left cover [C] (1screw, 2 connectors).

Right Lower Cover Removal

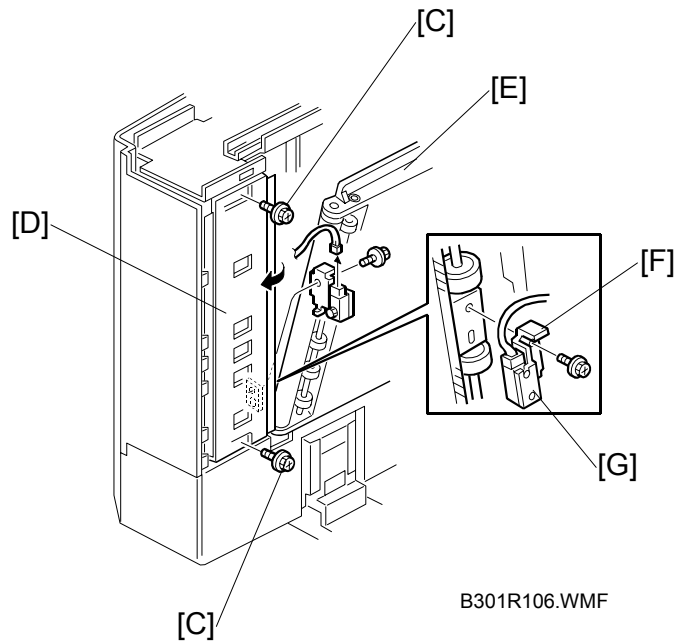
1. Remove the right lower cove [D] (4 screws).

Upper Exit Cover Removal

1. Remove the front and right lower covers.
2. Remove the front cover.
3. Remove the upper exit cover [E] (1 screw).

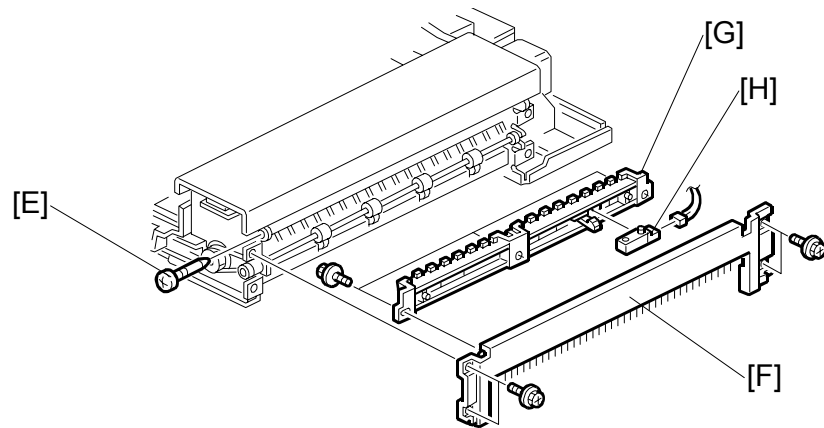
6.2.5 SENSOR REPLACEMENT

Entrance and Registration Sensors



Registration Sensor

1. Remove the front cover.
2. **For B098 only:** Remove the two screws [C] securing the original feed base [D].
3. Release the transport belt unit [E] (**A229/A293: 6 screws, B098: 3 screws**).
4. Remove the sensor bracket [F] (1 screw).
5. Replace the registration sensor [E] (1 connector, 1 screw).

Exit Sensor and Inverter Sensor

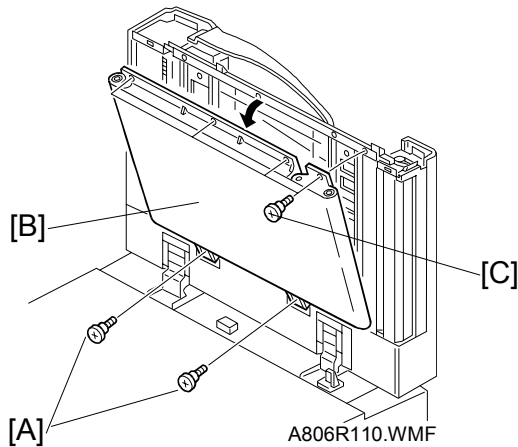
B301R108.WMF

Inverter Sensor

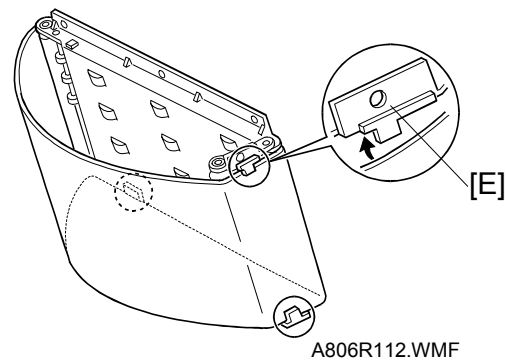
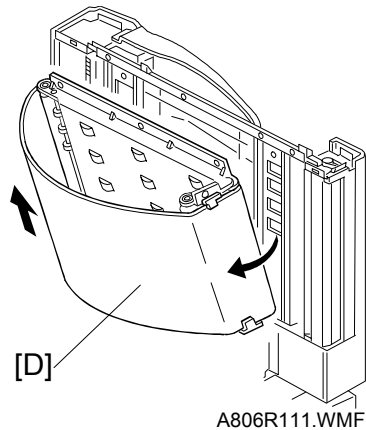
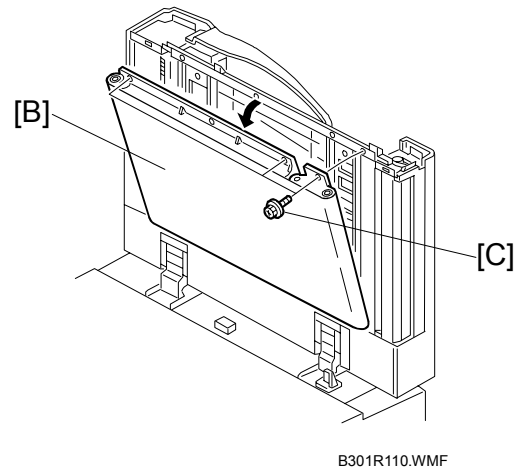
1. Remove the front and rear covers.
2. **For B098 only: Remove the screw [E].**
3. Remove the right lower cover [F] (4 screws).
4. Remove the guide plate [G] (3 screws).
5. Replace the inverter sensor [H] (1 connector).

6.2.6 TRANSPORT BELT REPLACEMENT

– A229/A293 –



– B098 –



1. Remove the front cover (see section 6-2-1).
2. **For A229/A293 only:** Remove the lower two screws [A] securing the transport belt assembly [B].
3. **For A229/A293:** Remove the upper four screws [C] securing the transport belt assembly.
For B098: Remove the three screws [C] securing the transport belt assembly [B].
4. Bend up the transport belt assembly extension.
5. Pull off the transport belt [D] and replace it.

NOTE: 1) When releasing the transport belt assembly, make sure to remove the two lower screws first. **(A229/A293)**
 2) When installing the transport belt, make sure that the belt runs under the belt guide spacers [E].
 3) When securing the transport belt assembly with the six screws, make sure to secure the four upper screws first. **(A229/A293)**

6.4 LASER UNIT

⚠ WARNING

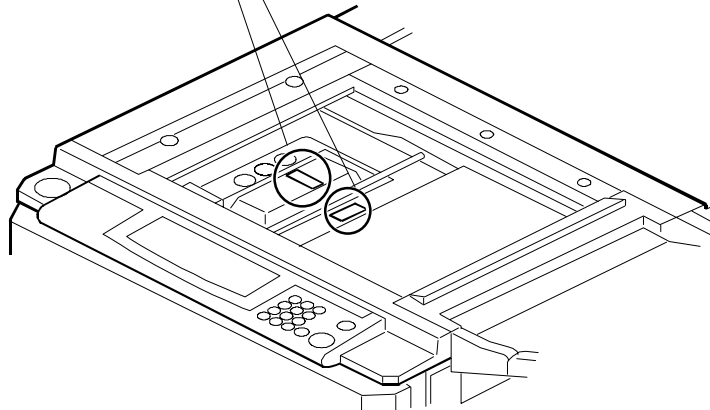
Turn off the main power switch and unplug the machine before attempting any of the procedures in this section. Laser beams can seriously damage your eyes.

6.4.1 CAUTION DECAL LOCATIONS

There are **two** caution decals in the laser section as shown below.



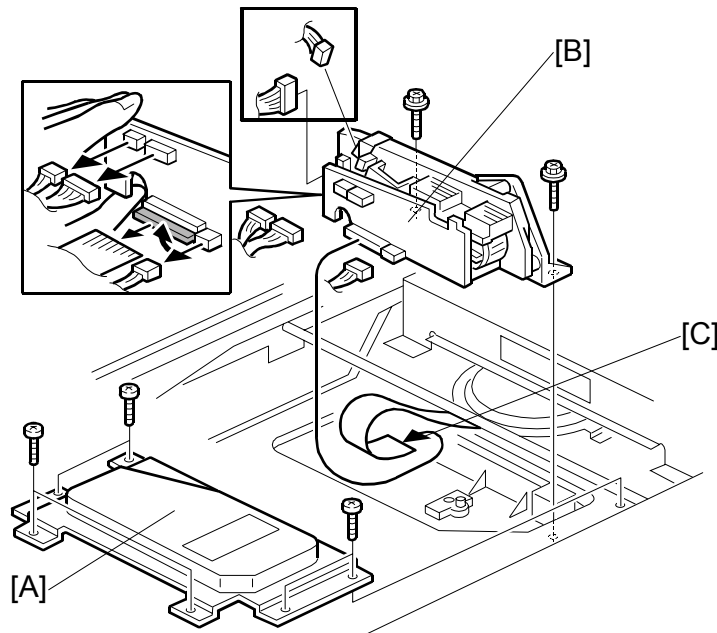
LASER_PS3.WMF



B098R661.WMF

6.4.2 LD UNIT REPLACEMENT

–A229/A293 Only –



B098R101.WMF

⚠ WARNING

Turn off the main power switch and unplug the machine before attempting this procedure. Laser beams can seriously damage your eyes.

1. Remove the exposure glass. (See Exposure Glass Removal.)
2. Remove the LD cover [A] (6 screws).
3. Replace the LD unit [B] (**A229/A293**: 2 screws and 6 connectors, **B098**: 2 screws and 4 connectors).
NOTE: When disconnecting the cables, hold the LD unit.
4. When reinstalling, make sure that the flat cable [C] is mounted above the LD unit, and that the rotation of the unit is not interrupted.
5. After replacing the LD unit, check the laser beam pitch adjustment and readjust it if necessary.

A229/A293: See Laser Beam Pitch Adjustment

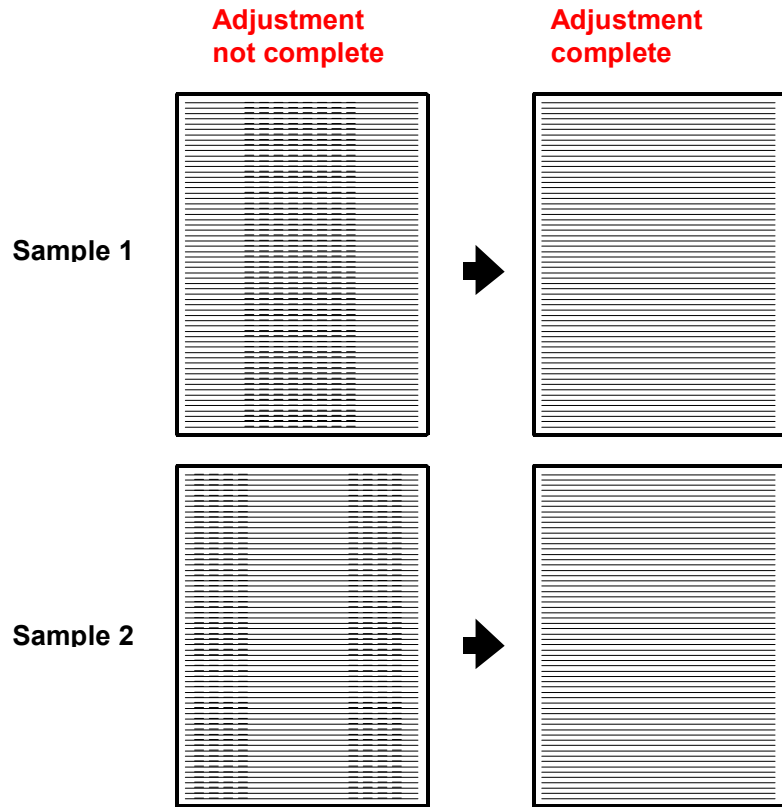
B098: See Laser Beam Pitch Adjustment for B098

6. **For A229/A293 only:** Do SP 2-962 (process control initialization).

NOTE: Be sure that the cable does not block LD unit rotation after replacing the LD unit. If the LD unit cannot rotate smoothly to change the resolution, SC329 (LD unit home position error) may occur.

6.4.3 LASER BEAM PITCH ADJUSTMENT

– For B098 –



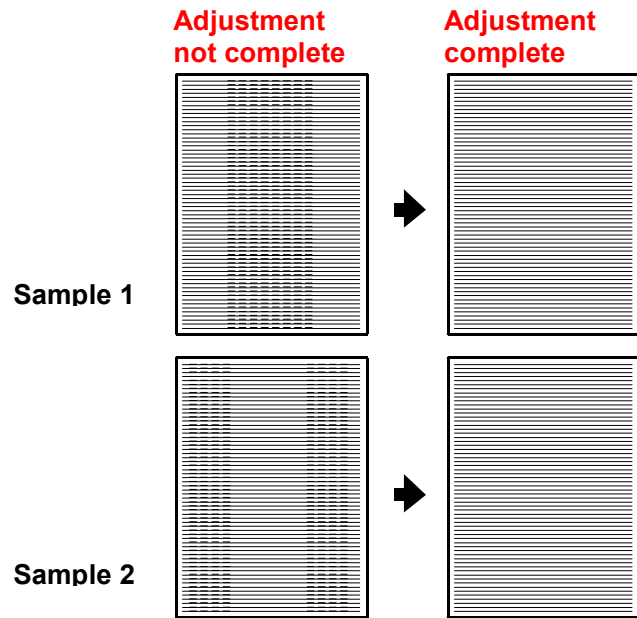
B098R913.WMF

⚠ WARNING

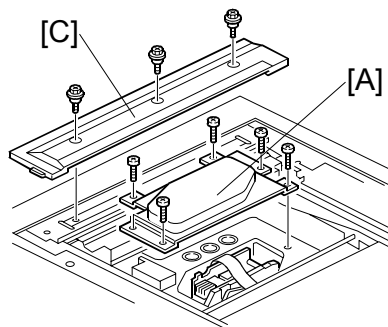
Turn off the main power switch and unplug the machine after performing Steps 1 and 2 below. Laser beams can seriously damage your eyes.

Use the following procedure to perform the pitch adjustment after replacing the LD unit:

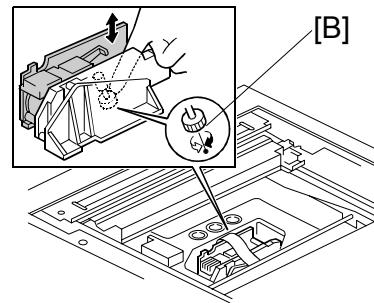
1. Print out the test pattern on to a sheet of A3/ 11" x 17" paper (SP2902-003: 16 – Cross-stitch).
2. Check the test pattern. If the vertical lines are visible, as shown in Sample 1 and 2 above, correct the beam pitch as described below.
NOTE: The lines are thin, with uniform thickness.
3. Turn off the main switch and unplug the machine.
NOTE: For safety reasons, make absolutely sure to perform this step before continuing.



B098R913.WMF



B098R912.WMF



B098R914.WMF

4. Remove the exposure glass. (See Exposure Glass Removal.)
5. Remove the LD cover [A] (6 screws).
6. Adjust the laser beam pitch by turning the adjustment screw [B]. Turn the clockwise or counter-clockwise, depending on what the test pattern looks like:

Test pattern:	Adjustment direction
Sample 1	Clockwise
Sample 2	Counter clockwise

7. Reattach the LD cover, exposure glass and left scale [C].
8. Print out the test pattern again. If necessary, repeat the adjustment from Step 3 until the lines do not appear.

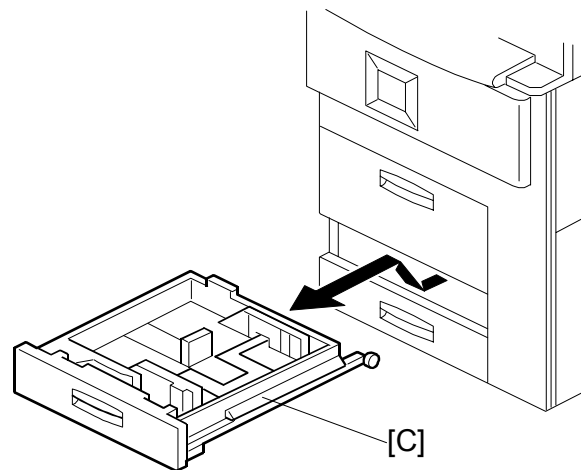
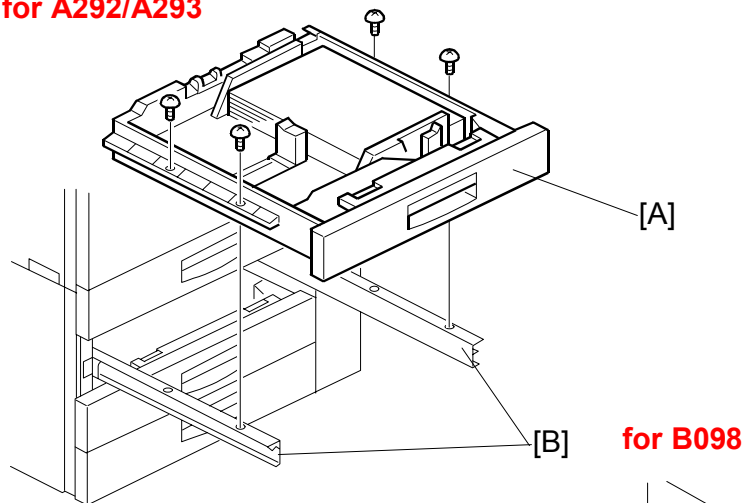
NOTE: If performing the adjustment again, make absolutely sure to turn off the main power and unplug the machine before beginning.

6.8 PAPER FEED

6.8.2 PAPER TRAY REMOVAL

Universal Trays (Customer adjust/Technician adjust) Removal

for A292/A293



For A292/A293

1. Draw out the tray.
2. Remove the tray [A] from both guide rails [B] as shown (4 screws).

For B098

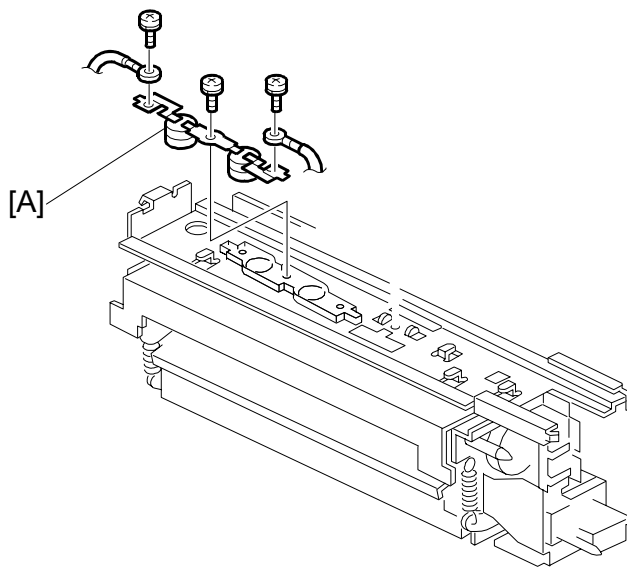
1. Draw out the tray [C] and remove it as shown.

6.9 FUSING UNIT

6.9.2 FUSING THERMMISTOR/THERMOFUSE/THERMOSTAT REPLACEMENT

Fusing Thermofuse Replacement (for A292/A293 only)

Fusing Thermostat Replacement (for B098 only)

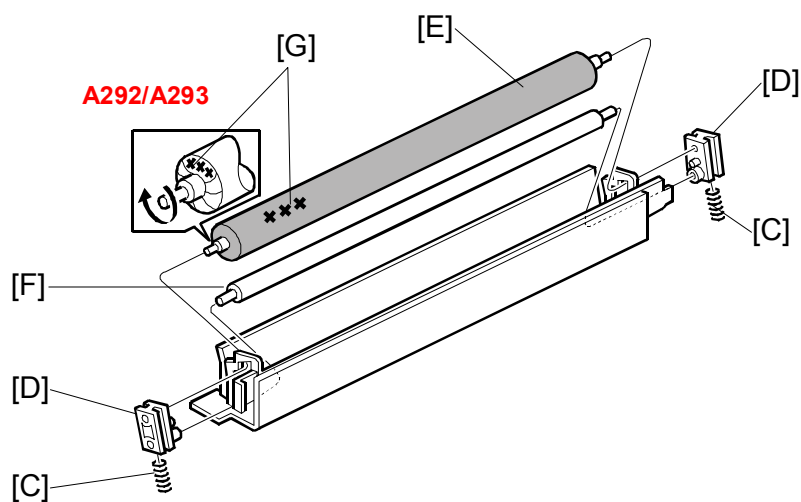


Fusing Thermostat Replacement (for B098 only)

1. Remove the fusing unit upper cover. (Refer to Fusing Thermistor Replacement.)
2. Replace the fusing thermostat [A] (3 screws).

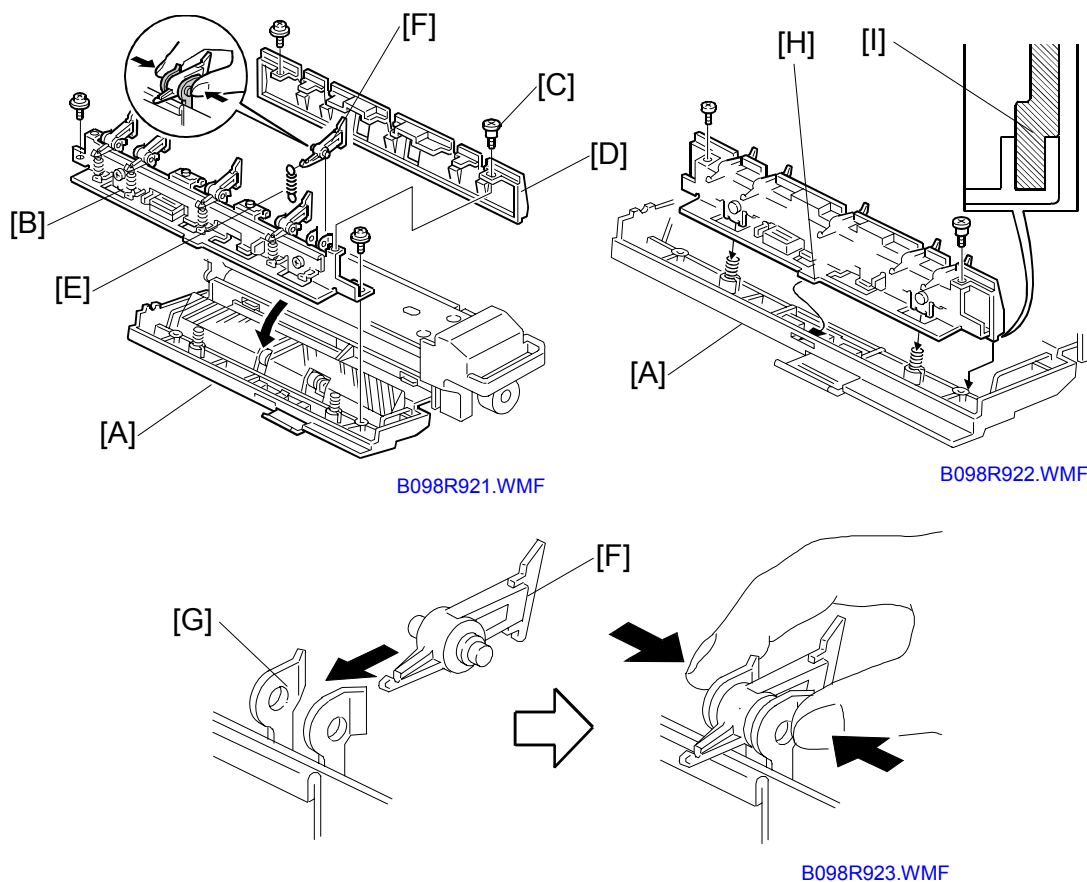
NOTE: When re-assembling the fusing unit, secure the harness in the clamps correctly.

6.9.5 OIL SUPPLY/CLEANING ROLER REPLACEMENT

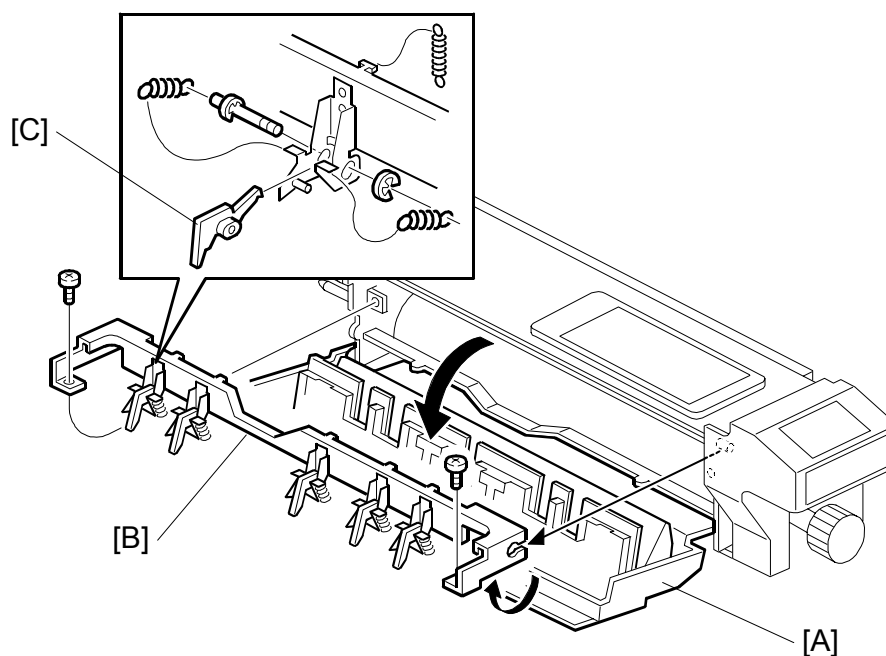


6.9.8 HOT ROLLERSTRIPPER PAWL REPLACEMENT

For A292/A293



1. Turn off the main switch and pull out the fusing unit.
 2. Lower the fusing exit assembly [A].
 3. Remove the fusing exit guide [B] (2 screws).
 4. Remove the two screws (the front screw [C] is a stepped screw) that hold the upper exit guide [D].
 5. Unhook the spring [E] then replace the pawls [F].
- NOTE:** 1) After installing the new pawls, check that they are correctly held by the holders [G] as shown. If not, remove the pawl and bend the sides of the holder inward. Apply Barrierta L55/2 grease to the inner surfaces of the holder.
- 2) When re-attaching the upper exit guide, put the hook [H] in the opening in the fusing exit assembly and fit the rib [I] in the rail.

For B098


1. Remove the fusing unit. (Refer to Fusing Unit Removal.)
2. Lower the fusing exit assembly [A].
3. Remove the hot roller stripper unit [B] (2 screws).
4. Replace the hot roller strippers [C] (1 E-ring, 3 springs)

7. TROUBLESHOOTING

7.1 SERVICE CALL CONDITIONS

7.1.1 SUMMARY

The SC code types and the procedures to reset them are explained in the following table.

Type	Display Method (Definition)	How to Reset
A	Fusing unit SCs displayed on the operation panel. The machine is disabled. The user cannot reset the SC.	Enter SP mode, then turn the main power switch off and on.
B	SCs that disable only the features that use the defective item. Although these SCs are not shown to the user under normal conditions, they are displayed on the operation panel only when the defective feature is selected.	Turn the main power switch off and on.
C	SCs that are not shown on the operation panel. They are internally logged.	Logging only
D	Turning the operation switch or main power switch off then on resets SCs displayed on the operation panel. These are re-displayed if the error occurs again.	Turn the operation switch or main power switch off and on.

7.1.2 SC CODE DESCRIPTIONS

SC101: Exposure lamp error

- Definition - [D]

SC120: Scanner home position error 1

-Definition- [D]

SC121: Scanner home position error 2

-Definition- [D]

SC124: Scanner motor encoder signal error

-Definition- [D]

SC126: Scanner motor speed error 2

-Definition- [D]

SC127: Scanner motor encoder rotating direction error

-Definition- [D]

SC130: SBU error

-Definition- [D]

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027
---------------------	----------------	---------------

SC300: Charge corona output error 1

-Definition- [D]

SC301: Charge corona output error 2

-Definition- [D]

SC302: Charge corona output error 3

-Definition- [D]

SC303: Charge corona output error 4

-Definition- [D]

SC305: Charge corona wire cleaner error 1

-Definition- [C]

SC306: Charge corona wire cleaner error 2

-Definition- [D]

SC310: Potential sensor error 1

Definition- [C]

SC311: Potential sensor error 2

Definition- [C]

SC312: Potential sensor error 4

Definition- [C]

SC314: Potential sensor error 5

Definition- [C]

SC321: No laser writing signal (F-GATE) error 1

- Definition- [D]

SC322: 1st laser synchronization error

-Definition- [D]

SC323: LD drive current over

-Definition- [D]

SC326: 2nd laser synchronization error

-Definition- [D]

SC327: LD unit home position error 1 (A292/A293 only)

-Definition- [D]

SC328: LD unit home position error 2 (A292/A293 only)

-Definition- [D]

SC329: LD unit home position error 3 (A292/A293 only)

-Definition- [D]

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027
---------------------	----------------	---------------

SC330: LD unit no initial setting (A292/A293 only)

-Definition- [D]

SC331: LD unit home position error 4 (A292/A293 only)

-Definition- [D]

SC332: LD unit present position error (A292/A293 only)

-Definition- [D]

SC335: Polygonal mirror motor error 1

-Definition- [D]

SC336: Polygonal mirror motor error 2

-Definition- [D]

SC337: Polygonal mirror motor error 3

-Definition- [D]

SC338: Polygonal mirror motor error 1

-Definition- [D]

SC341: TD sensor adjustment error 1

-Definition- [D]

SC342: TD sensor adjustment error 2

-Definition- [D]

SC345: Development bias leak

-Definition- [D]

SC350: ID sensor error 1

-Definition- [C]

SC351: ID sensor error 2

-Definition- [C]

SC352: ID sensor error 3

-Definition- [C]

SC353: ID sensor error 4

-Definition- [C]

SC354: ID sensor error 5

-Definition- [C]

SC364: Hard disk drive error

-Definition-

SC366: Hard disk bad sector maximum

-Definition – [D]

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027
---------------------	----------------	---------------

SC367: Hard disk (HDD:R) bad sector maximum

-Definition –

SC370: IMAC (image compression IC) input FIFO error

-Definition- [D]

SC372: IMAC (image compression IC) output FIFO error

-Definition- [D]

SC374: IMAC (image compression IC) modes setting error

-Definition-

SC376: Data transmission error

-Definition- [D]

SC380: Data transmission time out (video input)

-Definition- [D]

SC382: Data transmission time out (video output)

-Definition- [D]

SC384: Data transmission time out (connect copy)

-Definition- [D]

SC386: Data transmission time out (Hard disk write)

-Definition- [D]

SC390: CRC error

-Definition- [D]

SC391: Image storage address error

-Definition-[D]

SC400: Transfer roller leak error

-Definition- [D]

SC401: Transfer roller open error

-Definition- [D]

SC430: Quenching lamp error

-Definition- [C]

SC440: Main motor lock

-Definition- [D]

SC441: Development motor lock

-Definition- [D]

SC493: Exhaust fan motor lock

-Definition- [D]

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

SC494: Fusing exhaust fan motor lock

-Definition- [D]

SC495: Toner recycling unit error

-Definition- [D]

SC496: Toner collection bottle error

-Definition- [D]

SC497: Toner recycling motor error

-Definition- [D]

SC501: 1st tray lift malfunction

-Definition- [B]

SC502: 2nd tray lift malfunction

-Definition- [B]

SC503: 3rd tray lift malfunction

-Definition- [B]

SC505: LCT tray malfunction (optional LCT)

-Definition- [B]

SC510: Paper feed motor locks

-Definition- [B]

SC511: LCT motor lock (optional LCT)

-Definition- [B]

SC515: Tandem rear fence motor error

-Definition- [B]

SC516: Tandem side fence motor error

-Definition- [B]

SC520: Duplex jogger motor error 1

-Definition- [D]

SC521: Duplex jogger motor error 2

-Definition- [D]

SC530: By-pass feed motor lock

-Definition- [D]

SC531: Fusing/duplex motor lock

-Definition- [D]

SC547: Zero cross signal malfunction

-Definition- [D]

Model: Mojito-C1/C2	Date: 3-Oct-02	No.: RA293027
---------------------	----------------	---------------

SC590: Toner collection motor error

-Definition- [D]

SC601: Communication error between BICU and MCU

-Definition- [D]

SC602: Communication error between BICU and HDD controller

-Definition- [D]

SC620: Communication error between BICU and ADF 1

-Definition- [D]

SC621: Communication error between BICU and ADF 2

-Definition- [D]

SC622: Communication error between BICU and ADF 3

-Definition- [D]

SC625: Communication error between BICU and finisher 1

-Definition- [D]

SC626: Communication error between BICU and finisher 2

-Definition- [D]

The BICU board receives a low signal even when the communication line is connected between the BICU board and the finisher or mailbox.

-Possible cause-

- Finisher or mailbox main board defective
- BICU board defective
- Poor connection between BICU board and finisher or mailbox main board
- Noise on the interface cable
- Finisher or mailbox is installed with B098

SC630: CSS (RSS) communication error between line adapter and CSS center

-Definition- [C]

SC635: Communication error between BICU and paper feed board 1

-Definition- [D]

SC636: Communication error between BICU and paper feed board 2

-Definition- [D]

SC700: ADF original pick-up malfunction 1

-Definition- [D]

SC701: ADF original pick-up malfunction 2

-Definition- [D]

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

SC702: ADF feed-in motor lock

-Definition- [D]

SC703: ADF transport motor lock

-Definition- [D]

SC704: ADF feed-out motor lock

-Definition- [D]

SC705: ADF bottom plate motor error

-Definition- [D]

SC737: Finisher staple waste full

-Definition- [B]

SC738: Finisher shift tray lift motor error

-Definition- [D]

SC740: 1,000-sheet finisher error in finisher area

- Definition – [D]

SC741: 1000 sheet finisher error in saddle stitching area

- Definition – [D]

SC900: Electrical total counter error

-Definition- [D]

SC901: Mechanical total counter error

-Definition- [D]

SC951: F-gate signal error 2

-Definition- [D]

SC953: Scanner image setting error

-Definition- [D]

SC954: Printer image setting error

-Definition- [D]

SC955: Memory setting error

-Definition- [D]

SC956: Scanner setting ID error

-Definition- [D]

SC957: Scanner return ID error

-Definition- [D]

SC958: Scanner ready ID error

-Definition- [D]

Model: Mojito-C1/C2

Date: 3-Oct-02

No.: RA293027

SC959: Printer setting ID error

-Definition- [D]

SC960: Printer return ID error

-Definition- [D]

SC961: Printer ready ID error

-Definition- [D]

SC962: Memory setting ID error

-Definition- [D]

SC963: Memory finishing ID error

-Definition- [D]

SC964: Printer ready error

-Definition- [D]

SC966: No laser writing signal (F-GATE) error 2

- Definition - [D]

SC970: Scanner ready error

-Definition- [D]

SC980: HDD access error

-Definition- [D]

SC982: HDD construction error

-Definition- [D]

SC984: HDD response error

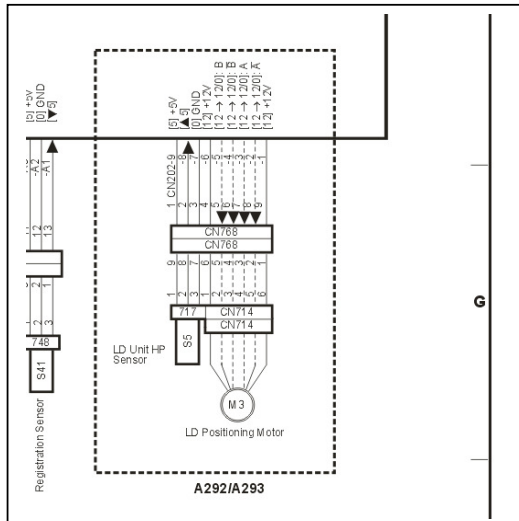
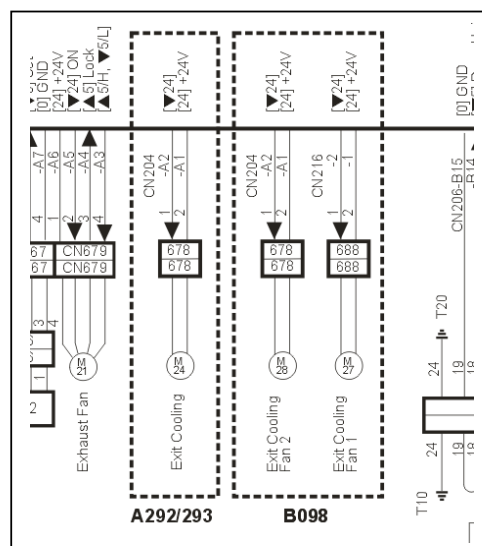
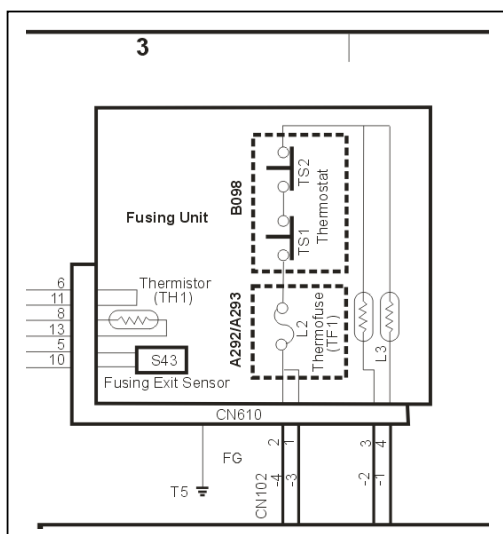
-Definition- [D]

SC990: Software performance error

-Definition- [D]

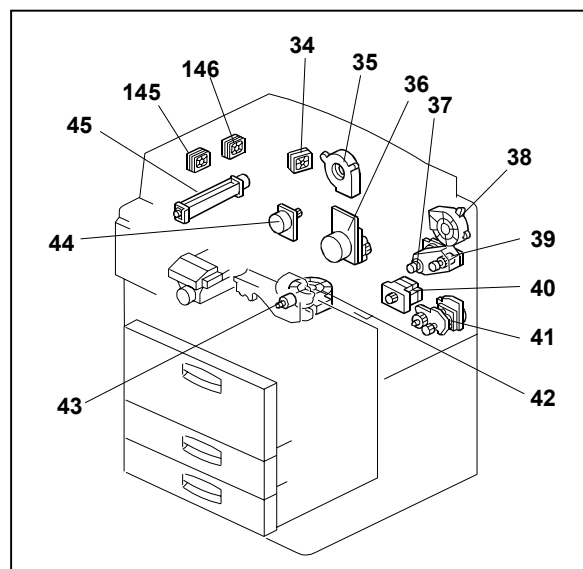
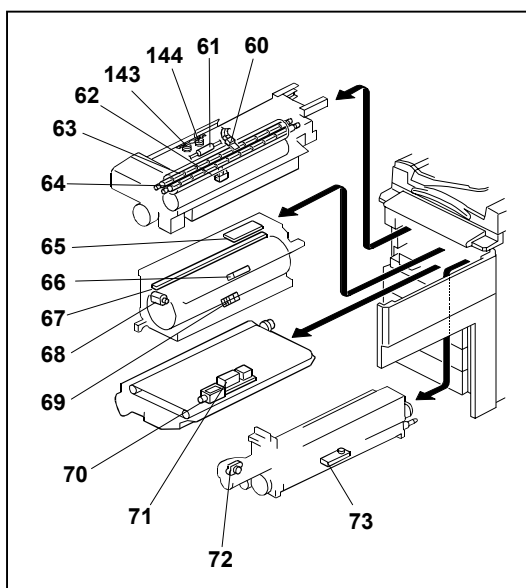
APPENDIX

1. POINT TO POINT



2. ELECTRICAL COMPONENT LAYOUT

Symbol	Name	Index No	P to P
Motors			
M3	LD Positioning (A292/A293)	25	G11
M24	Exit Cooling Fan (A292/A293)	45	G4
M27	Exit Cooling Fan 1 (B098)	145	G5
M28	Exit Cooling Fan 2 (B098)	146	G5
S5	LD Unit Home Position(A292/A293)	24	G10
TF1	Fusing Thermofuse (A292/A293)	61	A3
TS 1	Thermostat 1 (B098)	143	A3
TS 2	Thermostat 2 (B098)	144	A3



PRINTER CONTROLLER **(Machine Code: B335, B336, B337, B590)**

1. OVERALL MACHINE INFORMATION

1.1 INTRODUCTION

The base engine (Machine Code: A292/A293, B098 and A294/A295) contains an interface for the multi-function controller. The multi-function controller adds printer functions. The printer functions can operate independently and simultaneously with other functions in the background, and their output can be interleaved with the copy mode output.

(Omission)

The A294 and A295 engines can print 85 and 105 pages per minute respectively at 600 dpi. The A292/B098 and A293 engines can print 55 and 70 pages per minute respectively at 600 dpi.

1.2 SPECIFICATIONS

Printing Speed: 85 ppm (A294), 105 ppm (A295)
 55 ppm (A292/B098), 70 ppm (A293)

1.3 SOFTWARE

1.3.1 PRINTER DRIVERS

The following printer drivers are enclosed in the **printer drivers and utilities CD-ROM**:

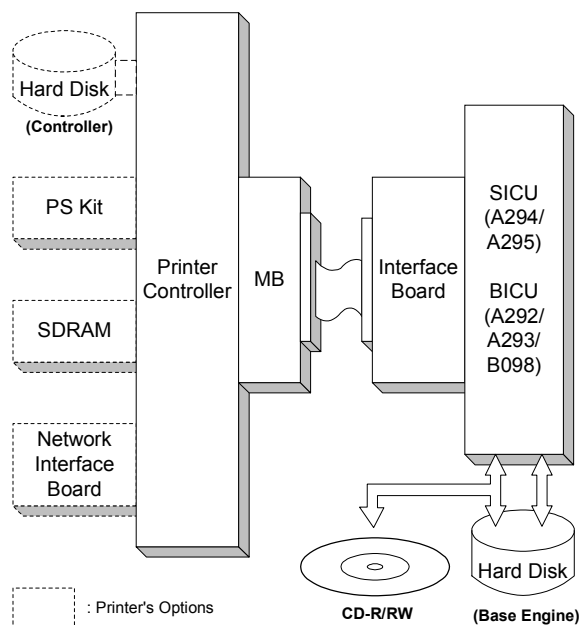
- PCL5e Printer Driver for Windows 95/98/ME/NT4.0/2000/XP
- PCL6 Printer Driver for Windows 95/98/ME/NT4.0/2000/XP
- PS3 Printer Driver for Windows 95/98/ME/NT4.0/2000/XP and Macintosh

1.4 MACHINE CONFIGURATION

Item	Machine Code	No.
Mailbox	G909 (A292/A293 only)	1
Mailbox Bridge Unit	G912 (A292/A293 only)	2
PostScript Kit	B338 (A294/A295) B339 (A292/A293, B098)	3
SDRAM	---	4
Hard Disk	B349	5
Network Interface Board	A855	6
Printer Controller	B335 (A295) B336 (A294) B337 (A292/A293) B590 (B098)	7
Printer Manual/Driver Kit	---	---

1.5 STRUCTURE

1.5.1 BLOCK DIAGRAM



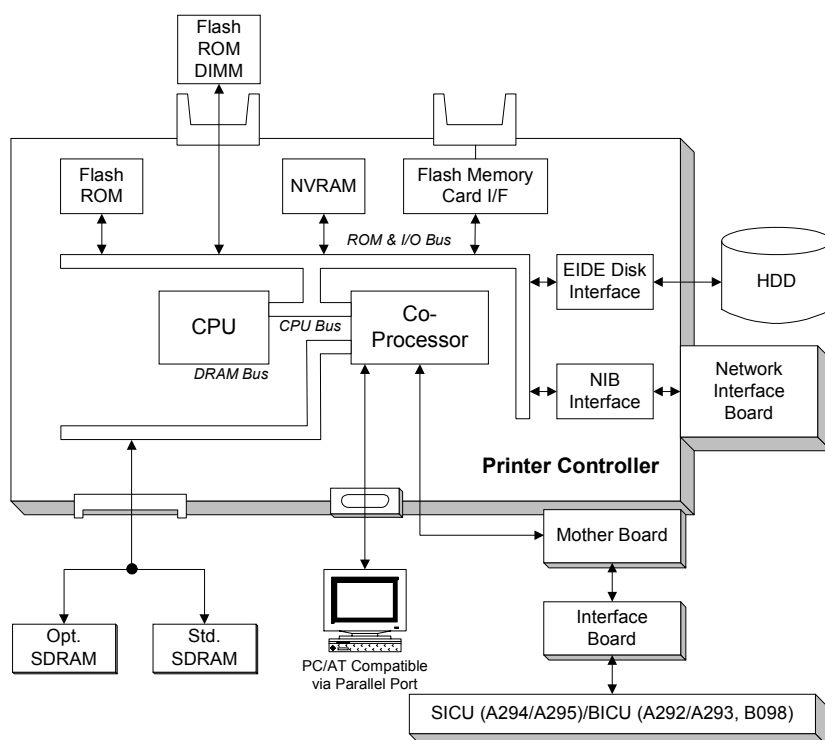
1.5.2 DESCRIPTIONS

6. Mother Board (MB)

This connects the controller to the SICU (A294/A295)/BICU (A292/A293, B098) board in the printer controller box.

2. DETAILED SECTION DESCRIPTIONS

2.1 HARDWARE OVERVIEW



3. INSTALLATION

3.1 PRINTER CONTROLLER (B335/B336)

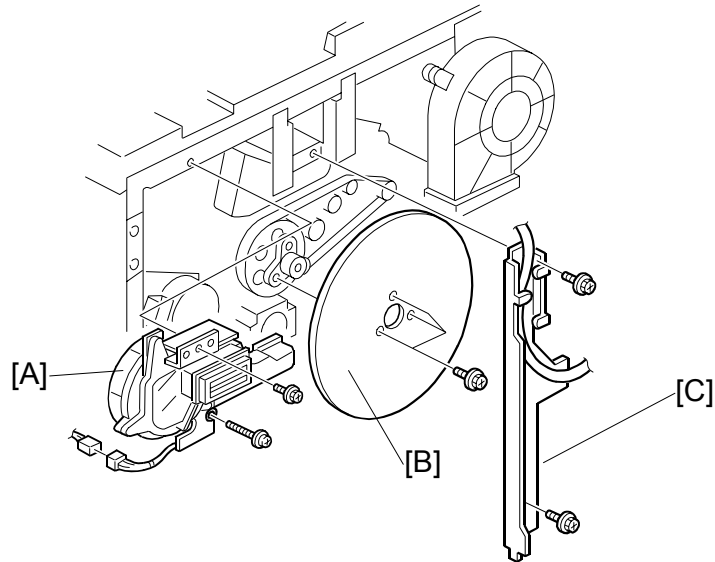
B335 is for the A295 copier/B336 is for the A294 copier

3.2 PRINTER CONTROLLER (B337/B590)

B337 is for the A292/A293 copiers.

B590 is for the B098 copier.

3.2.2 INSTALLATION PROCEDURE



4. Remove the duct [A] (2 screws, 1 connector).
5. Remove the flywheel [B] (3 screws).
6. Remove the bracket [C] (2 screws).
7. Install the interface board [D] (1 screw).

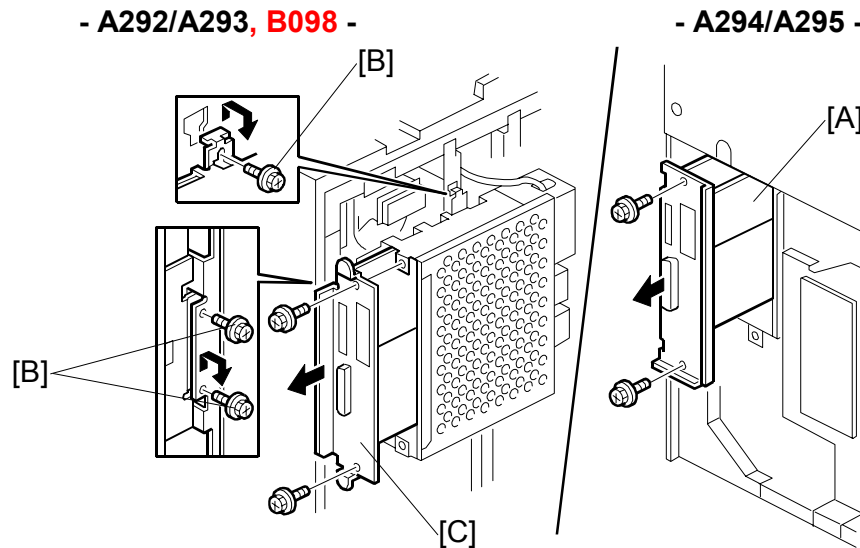
3.4 POSTSCRIPT KIT (B338/B339)

B338 is for the A294/A295 copiers.

B339 is for the A292/A293 and B098 copiers.

5 REPLACEMENT AND ADJUSTMENT

5.1 PRINTER CONTROLLER BOARD



1. Disconnect the network and Bi-Centronics cables.
2. Remove the cover. (Refer to the installation procedures.)
A294/A295: Lower rear cover (2 screws).
A292/A293, B098: Upper rear cover (2 screws).
3. A294/A295: Remove the controller board [A] (2 screws).
A292/A293, B098: Remove the 3 screws [B] and remove the controller board [C] (2 screws).

Reissued: 6-Nov-02

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024a
---------------------	-----------------	----------------

RTB Correction

Version 0.56 and 0.58 have been added.

Subject: Printer Controller(B337/B590)System Firmware Histories		Prepared by: F.Noguchi	
From: Technical Services sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other (Information)	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Modification histories of the system firmware of Printer Controller Type 700/1055 (B337/B590).

As there are two types of the firmware, use the appropriate one for the product brand.

Destination	Part	Product Codes/Brands
Generic	B337 5800	Type 700: B337-01, -10, -15, -17
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec
		Type 1055: B590-10, -14, -15, -17, -22, -24, -26, -27
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec, Lanier
Lanier	B337 5814	Type 700: B337-14
		Lanier

Note: The printer controller Type 1055 requires Version 0.56 or higher.

Firmware Version and Part Number Suffix for Each Destination

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814
Version	Suffix	Suffix
0.40	None	None
0.43	A	A
0.46	B	B
0.49	D	D
0.54	E	E
0.56	F	F
0.58	G	G

Reissued: 6-Nov-02

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024a
---------------------	-----------------	----------------

Version 0.58

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 G	GEN.al	5323	B337-01, -10, -15, -17, B590-10, -14, -15, -17, -22, -24, -26, -27
B337 5814 G	LAN.al	5323	B337-14

1. Supports Edge to Edge Print.
2. SC2002 occurs when printing an Excel file with a particular macro.
3. Printing does not resume after removing the paper from a full exit tray.
4. A job created with User Code #513 doesn't print even though the LCD displays "Printing".
5. In Windows NT/2000, the Mojito cannot print a letter size document for which a separator page has been selected.
6. Some data is not printed in the correct position on the page with the AS/400.

Version 0.56

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 F	GEN.al	09E5	B337-01, -10, -15, -17, B590-10, -14, -15, -17, -22, -24, -26, -27
B337 5814 F	LAN.al	09E5	B337-14

Note: The printer controller type 1055 requires Version 0.56 or higher.

1. Added symbol sets PC858, ISO8859/15Latin9 and Roman9 for display of the Euro currency symbol.
2. Added the Euro currency symbol to fonts PS Math and MC Text.
3. SNMP security vulnerabilities reported by CERT on Feb.12, 2002 have been tested using the PROTOS c06-snmpv1 test suite.
-CERT: <http://www.cert.org/advisories/CA-2002-03.html>
-PROTOS c06-snmpv1 test Suite:
<http://www.ee.oulu.fi/research/ouspg/protos/testing/c06/snmpv1/>
4. Printing does not stop after the output tray becomes full.

Reissued: 6-Nov-02

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024a
---------------------	-----------------	----------------

Version 0.54

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 E	GEN.al	EC70	B337-01, -10, -15, -17
B337 5814 E	LAN.al	EC70	B337-14

- 1. “Wide A4” printing**
Supports “Wide A4” printing. Engine firmware v3.18 or later must be upgraded.
- 2. “A4/Letter” function**
Supports “A4/Letter” function. Engine firmware v3.17 or later must be upgraded.
- 3. “Cover Page” function**
Fixed: Problem when using “Cover Page” function with Macintosh.
- 4. SC2002**
Fixed: SC2002 occurs when a print job using a “User Code” is sent immediately after power is turned off and then on.
- 5. SC2001**
Fixed: SC2001 occurs when “USTATUS TIMED” and “USTATUSOFF” commands are sent.
- 6. UNIX environment.**
Fixed: Blank page is printed in UNIX environments.
- 7. Shift Tray Setting**
Shift tray settings can now be controlled from the SP Mode main menu.
Note: Main firmware ver3.17 must be installed.
- 8. Staple end and Punch chad full**
Auto Continue for the staple end and punch chad full conditions can now be enabled/disabled from inside UP Mode.
- 9. “prtInputName” and “prtOutputName”**
In MIB, “prtInputName” and “prtOutputName” for each language is changed to its English name.

Version 0.49

Part Number	FTP Folder	Model Codes/Languages
B337 5800 D	GEN.al	B337-01, -10, -15, -17
B337 5814 D	LAN.al	B337-14

- 1. Vertical Lines of Excel Files Disappear**
A symptom that vertical lines on prints from Excel files disappear, has been corrected.
- 2. Letter/Legal Mixed Job with AS400**
A symptom that the auto tray switching does not function has been corrected.

Reissued: 6-Nov-02

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024a
---------------------	-----------------	----------------

3. Extra Blank Prints from SAP

A symptom that unnecessary extra blank prints are fed out in a mixed job with letter and legal with AS400, has been corrected.

4. Maximum Pages for Stapling in Finisher 3000

The maximum pages for stapling have been corrected.

5. FAX Counter of MIB

The fax counter has been added to the MIB.

6. Booklet

An error in the booklet mode has been corrected.

Version 0.43

Destination	Generic	Lanier
Part Number	B337 5800 A	B337 5814 A

1. Blank Sheet as Last Page of a Duplex Job with Odd-numbered Pages

Symptom

When a duplex job with odd-numbered pages is printed in the sample print function, the second side of the last sheet is stored as a blank page.

Modification

The blank page is deleted when the file of the job is stored as a document server.

Note

This modification is valid only with the engine firmware version **3.51** onwards.

2. Error when Deleted Files are Accessed

Symptom

An error occurs when deleted files in the deletion list of the engine are accessed.

Note: This modification is valid only with the engine firmware version **3.51** onwards.

3. Unnecessary Characters when Downloading User Defined Symset of PCL5e

Symptom

Unnecessary characters are also included when Downloading User Defined Symset of PCL5e.

4. Wait State of Flash ROM

Symptom

The Wait State of the flash ROM is valid with not only 70-nsec ROM but also 90-nsec ROM.

Version 0.40

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814

This is the first version of the mass production.

Reissued: 16-Jan-03

Model: Mojito-C1/C2	Date: 17-Dec-02	No.: RA293028a
---------------------	-----------------	----------------

RTB Correction

The items in bold italics have been corrected.
(information for the new and old rollers was reversed.)

Subject: BICU firmware Modification History (Mojito-C2 only)		Prepared by: F.Noguchi
From: Technical Services sec. Service Planning Dept.		
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input checked="" type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()	

This is to inform about modification histories of the BICU firmware for Mojito-C2. As there four types of firmware, use the appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	B098 7553	B098 -17
		US English, French, Spanish
Eu1_Asia	B098 7563	B098 -19, -22, -26, -27, -28, -29, -69
		English, French, Spanish, German, Italian, Dutch
Eu2	B098 7564	B098 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	B098 7565	B098 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech

Destination/ Part Number	America B098 7553	Eu1_Asia B098 7563	Eu2 B098 7564	Eu3 B098 7565	RTB issue date
Version/Suffix					
0.14	B	B	-	-	-
0.15	C	C	A	A	17-Dec-02

Reissued: 16-Jan-03

Model: Mojito-C1/C2	Date: 17-Dec-02	No.: RA293028a
---------------------	-----------------	----------------

< Version0.15 >

Destination/	America	Eu1 Asia	Eu2	Eu3
Part Number	B098 7553C	B098 7563C	B098 7564A	B098 7565A
Check SUM	A8B0	664E	8C71	5407

1. Target yield for the PM parts

The target yields for the following PM parts have been increased from 300K to 1,000K.

Note:

- 1) Machines containing version 0.15 at arrival have been fitted with the new PM parts.
- 2) At PM parts replacement, be sure to check the target yield setting and change it as follows if necessary, depending on whether the part to be installed is old or new.

Color of the roller

New type: **Light blue**

Old type: **Gray**

No.	Description	New Type (Yield: 1,000K)	Old Type (Yield: 300K)
		Part Number	Part Number
004	Feed Roller – Tray 1	AF03 1080	AF03 1040
005	Pick-up Roller – Tray 1	AF03 0080	AF03 0040
006	Separation Roller – Tray 1	AF03 2080	AF03 2040
007	Feed Roller – Tray 2	AF03 1080	AF03 1040
008	Pick-up Roller – Tray 2	AF03 0080	AF03 0040
009	Separation Roller – Tray 2	AF03 2080	AF03 2040
010	Feed Roller – Tray 3	AF03 1080	AF03 1040
011	Pick-up Roller – Tray 3	AF03 0080	AF03 0040
012	Separation Roller – Tray 3	AF03 2080	AF03 2040
013	Feed Roller – Tray 4	AF03 1080	AF03 1040
014	Pick-up Roller – Tray	AF03 0080	AF03 0040
015	4Separation Roller – Tray 4	AF03 2080	AF03 2040
017	Feed Roller – LCT	AF03 1081	AF03 1064
018	Pick-up Roller – LCT	AF03 0080	AF03 0050
019	Separation Roller – LCT	AF03 2080	AF03 2050
020	Feed Roller – Bypass Feed	AF03 1081	AF03 1041
021	Pick-up Roller – Bypass Feed	AF03 0080	AF03 0041
022	Separation Roller – Bypass Feed	AF03 2080	AF03 2041

< Version0.14 >

Destination/	America	Eu1 Asia	Eu2	Eu3
Part Number	B098 7553B	B098 7563B	B098 7564	B098 7565
Check SUM	BFDF	85AE	DEBB	D720

Note: This is information only, as version0.14 was used from the first lot of mass production.

Reissued: 12-Feb-03

Model: General RTB	Date: 4-Feb-03	No.: RGene013a
--------------------	----------------	----------------

RTB Reissue

The items in ***bold italics*** have been corrected or added.

Subject: Service remarks at installation		Prepared by: T. Itoh	
From: Technical Service Sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input checked="" type="checkbox"/> Other (Specification change)		

Please note the following change in counter specification. Although a production line modification will not be applied to some products, the action described in 4. *Important Notes for Installation* below must be taken for **all products** at installation.

Overview:

Electronic counters will now be set to **0** when released from the factory, instead of being set to a negative value.

Background:

Previously, counters were set to a negative value when shipped from the factory, and later set to "0" at installation, following installation test copies/prints. However this may cause confusion among some customers as to why the counter value at the commencement of the contract is "0", even though some installation test copies have already been made.

Details:

1. Specification Change

	Specification
Current	<ul style="list-style-type: none"> The initial value of the electrical counter is <i>negative</i> when products are shipped from the factory. <p>Note: After making test samples at installation, the negative counter value can be set to "0" with SP mode.</p>
New	<ul style="list-style-type: none"> The initial value of the electrical counter is <i>"0"</i> when products are shipped from the factory. <p>Note: After making test samples at installation, the (positive) counter value cannot be set back to "0" with SP mode.</p>

Reissued: 12-Feb-03

Model: General RTB	Date: 4-Feb-03	No.: RGene013a
--------------------	----------------	----------------

2. Firmware Modification

Due to the counter modification, SP5-849 has also been changed as follows for products that have this SP mode (listed below).

	SP mode name:	Specification:
Current	Counter Clear Day	<ul style="list-style-type: none"> When the electrical counter is changed <u>from a negative value to 0</u>, the machine recognizes this as the counter clear day and stores this date in the NVRAM.
New	Installation Date	<ul style="list-style-type: none"> When the electrical counter <u>reaches a value of 20</u>, the machine recognizes this as the installation date and stores this date in the NVRAM.

NOTE: The following products have SP5-849. The new firmware for these products has not yet been released. However, the release notes for each will clearly mention the new firmware version.

New products: Bellini-C2, Adonis C3
Current products: Martini C1, Model-U C1

3. Schedule for the Counter Modification

The following is the current schedule for when the counter modification will be applied. Please note that there are some models to which the change will not be applied (marked as "---"), due to production schedules, production lot quantities, and sales figures.

NOTE: *The actual cut-in months that have been confirmed appear in the "Cut-in production month" column below. This RTB will be reissued when these dates have been confirmed for the remaining products.*

(1) New products

Product Name	Product Code	Target cut-in production month	<i>Cut-in production month</i>
Bellini C2	B070	2003.03	
Adonis C3	B079/82	2003.03	<i>First mass production lot</i>
Model J-P2	G080	2003.03	
Model J-P2 CF	G367	2003.03	
Model AR- P1	G081/92	2003.03	
Model K-C1a	B120	2003.03	

(2) Current products

Product Name	Product Code	Target cut-in production month	<i>Cut-in production month</i>
Digital B&W Copiers			
Bellini C1	A294	---	---
Martini C1	B064/65	2003.03	
Model M-C2b	B098	2003.03	
Adonis C2	B003/04/06/07	---	---

Reissued: 12-Feb-03

Model: General RTB		Date: 4-Feb-03	No.: RGene013a
Product Name	Product Code	Target cut-in production month	<i>Cut-in production month</i>
Russian C2	B022/27/31	2003.03	<i>February '02 production</i>
Model K-C1	B039/40/43	2003.03	
Stella C1	B044/45/46/49	2003.03	
Digital WF Copiers			
Dolphin	B010	2003.03	
Any Analog Copiers			
All products	-	---	---
Color Copiers			
Model I2	B018	---	---
Model L2	B017	---	---
Model C2	B023	2003.02	<i>February '02 production</i>
Model U-C1	B051/52	2003.03	
Color Printers			
Model J-P1	G060	---	---
Model J-P1 CF	G570	---	---
Model U-P1	G071	2003.03	
Pomelo P3	G063	<i>2003.03</i>	

NOTE: The counter change will be applied as a running change to production units only. For machines already shipped out or in the field, please be sure to take the action described below in Section 4.

4. Important Notes for Machine Installation – All Products

Please be sure to perform the following at machine installation:

1. If the product is from before the counter modification, i.e. the counter is at a negative value, be sure to set the counter to 0 first, then make the installation test samples.

Digital products	Set the electrical counter to 0 with SP mode.
Analog products	Set the mechanical counter to 0 with a reset key (tool).

2. If the product is modified, i.e. the counter is already at 0 (or above 0 following pre-installation at a service depot), simply make the installation test samples.
3. After completing the installation, make sure to **record the counter value**. This is very important, as this value will be used for billing with Meter Click contracts. Also, inform the customer of the value along with the reason why the counter does not start from "0".

Model: Mojito-C1/C2		Date: 13-Mar-03	No.: RA293029
Subject: PostScript3 (B339) Firmware Histries		Prepared by: F.Noguchi	
From: Technical Services Sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Other (Information)		

This is to inform of the modification history for the PostScript3 Kit Type 700 firmware of the Printer Controller Type 700/1055 (B337/B590).

Note that there are two types of firmware, both of which have been designed for specific brands as shown below:

Destination	Part Number	Product Codes/Brands
Generic	B339 5800	B339-01
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec
Lanier	B339 5814	B339-14
		Lanier

Note: The Printer Controller Type 1055 (B590) for the Mojito-C2 requires version 1.35 or newer.

< Firmware Version and Part Number Suffix for Each Destination >

Destination	Generic	Lanier	Cut-in
Part Number	B339 5800	B339 5814	Serial Number
Version	Suffix	Suffix	
1.33	A	A	From 1st production
1.35	B	B	Form Aug/'02 production

< Version 1.33 >

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814
Check SUM	3E20	3E20

Note: This is information only, as version 1.33 was used from the first lot of mass production.

< Version 1.35 >

Destination	Generic	Lanier
Part Number	B337 5800 A	B337 5814 A
Check SUM	209B	209B

1. Supports the Mojito-C2

The machine code for the Mojito-C2 has been added.

Reissued: 19-Mar-03

Model: Mojito-C1/C2	Date: 16-Dec-02	No.: RA293028b
---------------------	-----------------	----------------

RTB Reissue

Version 0.16 has been added.

Subject: BICU firmware Modification History		Prepared by: F.Noguchi	
From: Technical Services Sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input checked="" type="checkbox"/> Action required	<input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision	
	<input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information		
	<input type="checkbox"/> Other ()		

This is to inform about modification histories of the BICU firmware. As there four types of firmware, use the appropriate one for each customer.

Destination	Part Number	Model Codes/Languages
America	B098 7553	B098 -17
		US English, French, Spanish
Eu1_Asia	B098 7563	B098 -19, -22, -26, -27, -28, -29, -69
		English, French, Spanish, German, Italian, Dutch
Eu2	B098 7564	B098 -22, -26, -27
		English, German, Swedish, Norwegian, Danish, Finnish
Eu3	B098 7565	B098 -22, -26, -27
		English, German, Portuguese, Polish, Hungarian, Czech

Destination/ Part Number	America B098 7553	Eu1_Asia B098 7563	Eu2 B098 7564	Eu3 B098 7565	RTB issue date
Version/Suffix					
0.14	B	B	-	-	16-Dec-02
0.15	C	C	A	A	16-Dec-02
0.16	D	D	B	B	17-Mar-03

Reissued: 19-Mar-03

Model: Mojito-C1/C2	Date: 16-Dec-02	No.: RA293028b
---------------------	-----------------	----------------

< Version0.16 >

Destination/	America	Eu1 Asia	Eu2	Eu3
Part Number	B098 7553C	B098 7563C	B098 7564A	B098 7565A
Check SUM	5BAB	F6DA	AD2C	4DE8

1. SP mode change due to counter specification change

Due to a specification change for the counter (for details, refer to RTB No. Rgene013a), the following SP modes have been changed.

SP5849: Installation Date

When the electrical counter **reaches a value of 20**, the machine recognizes this as the installation date and stores this date in the NVRAM

SP7825: Total Counter Reset

After making test samples at installation, the (positive) counter value cannot be set back to "0" with SP mode.

2. Added the "Edge to Edge Print" function key

As per a field request, the "Edge to Edge Print" function has been added to the Printer SP Settings.

Note: To enable this function, it is necessary to:

1. Use printer firmware ver.0.58 or newer.
2. Change SP2101 (Printing Erase Margin) to a value of 0mm.

Cut-in Serial number

MODEL NAME	V/ Hz	DESTINATION	CODE	SERIAL NO.
RicohAficio 1055 Savin 2555 Gestetner 5502 Lanier LD055	120/ 60	USA, Canada, S. America	B098-17	J5330300366
Ricoh Aficio 1055	120/60	Taiwan	B098-19	From 1st production
Gestetner 5502 nashuatec 5505 Rex Rotary 5508	120/ 60	Europe, etc.	B098-22	J5330300203
Lanier LD055	220, 230, 240/ 50, 60	Europe	B098-24	L1333030001
infotec IS2055	220, 230, 240/ 50, 60	Europe, etc.	B098-26	2Q40330001
Ricoh Aficio 1055	220, 230, 240/ 50, 60	Europe, etc.	B098-27	J5330300001
Ricoh Aficio 1055	230/50	Korea	B098-28	From 1st production
Ricoh Aficio 1055	220/ 50, 60	Asia, Oceania	B098-29	J5330200224
Ricoh Aficio 1055	230/50	China	B098-69	J5330300395

Reissued: 19-Mar-03

Model: Mojito-C1/C2	Date: 16-Dec-02	No.: RA293028b
---------------------	-----------------	----------------

< Version0.15 >

Destination/	America	Eu1 Asia	Eu2	Eu3
Part Number	B098 7553C	B098 7563C	B098 7564A	B098 7565A
Check SUM	A8B0	664E	8C71	5407

1. Target yield for the PM parts

The target yields for the following PM parts have been increased from 300K to 1,000K.

Note:

- 1) Machines containing version 0.15 at arrival have been fitted with the new PM parts.
- 2) At PM parts replacement, be sure to confirm the target yield setting and change it as follows if necessary, depending on whether the part to be installed is old or new.

Color of the roller

New type: Gray

Old type: Light blue

No.	Description	New Type (Yield: 1,000K)	Old Type (Yield: 300K)
		Part Number	Part Number
004	Feed Roller – Tray 1	AF03 1040	AF03 1080
005	Pick-up Roller – Tray 1	AF03 0040	AF03 0080
006	Separation Roller – Tray 1	AF03 2040	AF03 2080
007	Feed Roller – Tray 2	AF03 1040	AF03 1080
008	Pick-up Roller – Tray 2	AF03 0040	AF03 0080
009	Separation Roller – Tray 2	AF03 2040	AF03 2080
010	Feed Roller – Tray 3	AF03 1040	AF03 1080
011	Pick-up Roller – Tray 3	AF03 0040	AF03 0080
012	Separation Roller – Tray 3	AF03 2040	AF03 2080
013	Feed Roller – Tray 4	AF03 1040	AF03 1080
014	Pick-up Roller – Tray	AF03 0040	AF03 0080
015	4Separation Roller – Tray 4	AF03 2040	AF03 2080
017	Feed Roller – LCT	AF03 1064	AF03 1081
018	Pick-up Roller – LCT	AF03 0050	AF03 0080
019	Separation Roller – LCT	AF03 2050	AF03 2080
020	Feed Roller – Bypass Feed	AF03 1041	AF03 1081
021	Pick-up Roller – Bypass Feed	AF03 0041	AF03 0080
022	Separation Roller – Bypass Feed	AF03 2041	AF03 2080

< Version0.14 >

Destination/	America	Eu1 Asia	Eu2	Eu3
Part Number	B098 7553B	B098 7563B	B098 7564	B098 7565
Check SUM	BFDF	85AE	DEBB	D720

Note: This is information only, as version0.14 was used from the first lot of mass production.

Reissued: 19-Mar-03

Model: General RTB	Date: 4-Feb-03	No.: RGene013b
--------------------	----------------	----------------

RTB Reissue

The items in ***bold italics*** have been corrected or updated.

Subject: Service remarks at installation		Prepared by: T. Itoh	
From: Technical Service Sec. Service Planning Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input checked="" type="checkbox"/> Other (Specification change)		

Please note the following change in counter specification. Although a production line modification will not be applied to some products, the action described in 4. *Important Notes for Installation* below must be taken for **all products** at installation.

Overview:

Electronic counters will now be set to **0** when released from the factory, instead of being set to a negative value.

Background:

Previously, counters were set to a negative value when shipped from the factory, and later set to "0" at installation, following installation test copies/prints. However this may cause confusion among some customers as to why the counter value at the commencement of the contract is "0", even though some installation test copies have already been made.

Details:

1. Specification Change

	Specification
Current	<ul style="list-style-type: none"> The initial value of the electrical counter is <u>negative</u> when products are shipped from the factory. <p>Note: After making test samples at installation, the negative counter value can be set to "0" with SP mode.</p>
New	<ul style="list-style-type: none"> The initial value of the electrical counter is <u>"0"</u> when products are shipped from the factory. <p>Note: After making test samples at installation, the (positive) counter value cannot be set back to "0" with SP mode.</p>

Reissued: 19-Mar-03

Model: General RTB	Date: 4-Feb-03	No.: RGene013b
--------------------	----------------	----------------

2. Firmware Modification

Due to the counter modification, SP5-849 has also been changed as follows for products that have this SP mode (listed below).

	SP mode name:	Specification:
Current	Counter Clear Day	<ul style="list-style-type: none"> When the electrical counter is changed <u>from a negative value to 0</u>, the machine recognizes this as the counter clear day and stores this date in the NVRAM.
New	Installation Date	<ul style="list-style-type: none"> When the electrical counter <u>reaches a value of 20</u>, the machine recognizes this as the installation date and stores this date in the NVRAM.

NOTE: The following products have SP5-849. The new firmware for these products has not yet been released. However the release notes for each will clearly mention the new firmware version.

New products: Bellini-C2, Adonis C3
Current products: Martini C1, Model-U C1

3. Schedule for the Counter Modification

The following is the current schedule for when the counter modification will be applied. Please note that there are some models to which the change will not be applied (marked as "---"), due to production schedules, production lot quantities and sales figures.

NOTE: The actual cut-in months that have been confirmed appear in the "Cut-in production month" column below. This RTB will be reissued when these dates have been confirmed for the remaining products.

(1) New products

Product Name	Product Code	Target cut-in production month	Cut-in production month
Bellini C2	B070	2003.03	<i>April '03 production</i>
Adonis C3	B079/82	2003.03	First mass production lot
Model J-P2	G080	2003.03	<i>March '03 production</i>
Model J-P2 CF	G367	2003.03	<i>March '03 production</i>
Model AR- P1	G081/92	2003.03	<i>March '03 production</i>
Model K-C1a	B120	2003.03	<i>March '03 production</i>

Reissued: 19-Mar-03

Model: General RTB	Date: 4-Feb-03	No.: RGene013b
--------------------	----------------	----------------

(2) Current products

Product Name	Product Code	Target cut-in production month	Cut-in production month
Digital B&W Copiers			
Bellini C1	A294	---	---
Martini C1	B064/65	2003.03	April '03 production (see Note)
Model M-C2b	B098	2003.03	March '03 production
Adonis C2	B003/04/06/07	---	---
Russian C2	B022/27/31	2003.03	February '03 production
Model K-C1	B039/40/43	2003.03	March '03 production
Stella C1	B044/45/46/49	2003.03	March '03 production
Digital WF Copiers			
Dolphin	B010	2003.03	March '03 production
Analog Copiers			
All products	-	---	---
J2SS-C3	B047/48	(See Note)	March '03 production
Whale	A174		March '03 production
Color Copiers			
Model I2	B018	---	---
Model L2	B017	---	---
Model C2	B023	2003.02	February '03 production
Model U-C1	B051/52	2003.03	April '03 production
Color Printers			
Model J-P1	G060	---	---
Model J-P1 CF	G570	---	---
Model U-P1	G071	2003.03	March '03 production
Pomelo P3	G063	2003.03	March '03 production

NOTE: The counter change will be applied as a running change to production units only. For machines already shipped out or in the field, please be sure to take the action described below in Section 4.

NOTE: *For Martini-C1 mainframes assembled in Japan, the counter change will be applied from the first unit of April '03 production. For mainframes assembled at REI, the change will be applied midway through April production. These cut-in serial numbers will be announced as soon as they have been confirmed.*

NOTE: *The change will also be applied to analog models J2SS-C3 and Whale, as production will continue for a while. However, as these models use only mechanical counters, the initial value when shipped from the factory will be 1 or 2 (not 0), following the 1 or 2 factory test copies.*

Model: General RTB	Date: 4-Feb-03	No.: RGene013b
--------------------	----------------	----------------

4. Important Notes for Machine Installation – All Products

Please be sure to perform the following at machine installation:

1. If the product is from before the counter modification, i.e. the counter is at a negative value, be sure to set the counter value to 0 **first**, then make the installation test samples.

Digital products	Set the electrical counter to 0 with SP mode.
Analog products	Set the mechanical counter to 0 with a reset key (tool).

2. If the product is modified, i.e. the counter is already at 0 (or above 0 following pre-installation at a service depot), simply make the installation test samples.
3. After completing the installation, make sure to **record the counter value**. This is very important, as this value will be used for billing with Meter Click contracts. Also, inform the customer of the value along with the reason why the counter does not start from "0".

Reissued: 2-Jun-03

Model: Mojito-C1/C2	Date: 16-Dec-02	No.: RA293028d
---------------------	-----------------	----------------

RTB Reissue

This RTB has been deleted.

Subject: BICU firmware Modification History		Prepared by: F.Noguchi	
From: 2nd Tech. Support Sec. Service Support Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

This RTB has been issued to officially **delete** RTB #RA293028c.

This is because:

1. RTBs specifically for the Mojito-C2 (such as the above) will now be issued separately from those for the C1. Mojito-C2 RTBs will be numbered with a RB098 prefix.
2. The above RTB contained a content error.

For the corrected version of this C2 RTB, please see **RTB #RB098001**.

Model: Mojito-C1/C2		Date: 22-Oct-03	No.: RA293030
Subject: SC495		Prepared by: F.Noguchi	
From: 2nd Tech Support Sec. Service Support Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Please apply the following revision to your Mojito C1/C2 Service Manuals.

“Toner end sensor defective” was mistakenly listed as one of the possible causes for SC495 when the original C1 manual was made, which was then carried over to the C2 manual. The correct explanation appears below:

Correct

SC495: Toner recycling unit error

-Definition- [B]

The toner recycling sensor output signal does not change within 500 ms after the main motor turns on.

- Possible causes -

- Too much load on the drive mechanism
- Toner recycling clutch detective
- Toner recycling clutch connector connection
- Toner recycling sensor connector connection

Incorrect

SC495: Toner recycling unit error

-Definition- [D]

The toner recycling sensor output signal does not change within 500 ms after the main motor turns on.

- Possible causes -

- Too much load on the drive mechanism
- Toner end sensor detective
- Poor connection on the sensor connector

Model: Mojito-C1/C2		Date: 4-Feb-04	No.: RA293031
Subject: OPC Drum Change/ Drum Setting Powder		Prepared by: F.Noguchi	
From: 2nd Tech Support Sec. Service Support Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other ()	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

Important Note:

The OPC drum has been changed as follows, which requires the application of a setting powder at drum installation. The Drum yield and SP mode setting have not been changed.

Change, Background

As of the end of January 2004 (Japan production) and September 2004 (RPL production), the organic solvent dichloromethane will no longer be used for OPC drum production as part of Ricoh's ongoing efforts, through the expanding application of in-house environmental management standards, to eliminate the use of environmentally sensitive materials in the manufacturing process.

Affected Drums and Models

To distinguish the drums from before and after this change, the drum lot numbers and service parts numbers will be changed as follows.

Lot Number Change:

Old: XXXXXXXXXXXX (12 digits)

New: S XXXXXXXXX

↖ ↗
Space

Service P/N Change:

Old P/N	New P/N	New Drum Production Cut-in Dates		New Drum Service Parts Available:
		Japan Production (NA/Asia):	RPL Production (Europe):	
A2949510	A2959510	End of January 04'	Early September 04' *See Note below	End of February 04' or later (US/Asia) End of September 04' or later (EU) *See Note below

Note: As the service parts OPC drum from ESPC is produced at RPL, the actual outflow of the new drum to the European market will be from the end of September 2004. The current drum (A2949510) will available for ordering until this time.

Important Note for Installation of the New Drum

Since the smoothness of the new drum (without dichloromethane) is reduced, it is essential to **make sure and apply Drum Setting Powder (P/N: 54429101) to the drum surface as shown below before installing.**

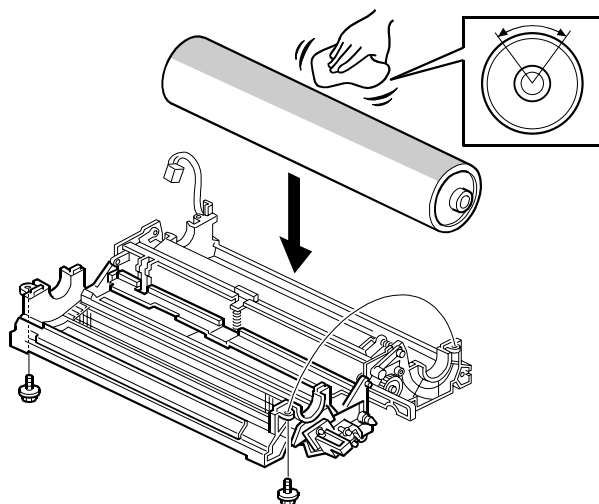
Note: If the setting powder is not applied, the drum's cleaning blade may turn outward, causing a drum cleaning failure.

Application Procedure for Drum Setting Powder

1. Apply the setting powder (P/N 54429101) to the drum by tapping the powder bag across the surface area shown in the illustration below, i.e. spanning the entire length of the drum but covering about a 45-90 degree portion (up to 1/4) of the total surface.

Note:

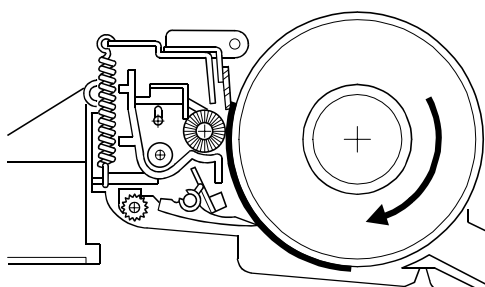
- Be sure to apply enough powder to give the area a moderate dusting (so that the area turns white).
- If setting powder is not available, please apply waste toner in the same manner described above (waste toner is charged and will be attracted to the drum surface). Please note that although dirty background will have a greater tendency to occur, be sure to apply the waste toner if there is no setting powder available.



2. Install the new drum in the OPC unit so that the powdered area (in bold below) faces the cleaning blade.

3. Rotate the drum once along its normal rotational direction (arrow shown below), so that it stops again at the same position.

Note: Be sure not to rotate the drum in the opposite direction.



Reissued: 5-Nov-04

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024b
---------------------	-----------------	----------------

RTB Correction

Version 0.61 has been added.

Subject: Printer Controller(B337/B590)System Firmware Histories		Prepared by: F.Noguchi	
From: 2nd Tech. Support Sec. Service Support Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other (Information)	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

This is to inform about the modification histories of the system firmware of Printer Controller Type 700/1055 (B337/B590).

As there are two types of the firmware, use the appropriate one for the product brand.

Destination	Part	Product Codes/Brands
Generic	B337 5800	Type 700: B337-01, -10, -15, -17
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec
		Type 1055: B590-10, -14, -15, -17, -22, -24, -26, -27
		Ricoh, Savin, Gestetner, Nashuatec, Rexrotary, Infotec, Lanier
Lanier	B337 5814	Type 700: B337-14
		Lanier

Note: The printer controller Type 1055 requires Version 0.56 or higher.

< Firmware Version and Part Number Suffix for Each Destination >

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814
Version	Suffix	Suffix
0.40	None	None
0.43	A	A
0.46	B	B
0.49	D	D
0.54	E	E
0.56	F	F
0.58	G	G
0.61	-	-

Reissued: 5-Nov-04

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024b
---------------------	-----------------	----------------

< Version 0.61 >

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 H	GEN.al	C090	B337-01, -10, -15, -17, B590-10, -14, -15, -17, -22, -24, -26, -27
B337 5814 H	LAN.al	C090	B337-14

1. Fixed: An incorrect font may be selected after the orientation command. (FPR No. RC0210004)
2. Fixed: An XL error happens when an Office97 document is printed using the PCL 6 driver. (FPR No.RE04020023)
3. Fixed: Printouts from a SAP system have inconsistent page layouts. (FPR No. RE04050015)

< Version 0.58 >

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 G	GEN.al	5323	B337-01, -10, -15, -17, B590-10, -14, -15, -17, -22, -24, -26, -27
B337 5814 G	LAN.al	5323	B337-14

1. Supports Edge to Edge Print.
2. SC2002 occurs when printing an Excel file with a particular macro.
3. Printing does not resume after removing the paper from the full exit tray.
4. The job created by User Code #513 doesn't print even though the LCD displays "Printing".
5. In Windows NT/2000, the Mojito cannot print a letter size document for which a separator page has been selected.
6. Some data is not printed in the correct position on the page with the AS/400.

< Version 0.56 >

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 F	GEN.al	09E5	B337-01, -10, -15, -17, B590-10, -14, -15, -17, -22, -24, -26, -27
B337 5814 F	LAN.al	09E5	B337-14

Note: The printer controller type 1055 requires Version 0.56 or higher.

1. Added symbol sets PC858, ISO8859/15Latin9 and Roman9 for display of the Euro currency symbol.

Reissued: 5-Nov-04

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024b
---------------------	-----------------	----------------

2. Added the Euro currency symbol to fonts PS Math and MC Text.
3. SNMP security vulnerabilities reported by CERT on Feb.12, 2002 have been tested using the PROTON c06-snmpv1 test suite.
-CERT: <http://www.cert.org/advisories/CA-2002-03.html>
-PROTON c06-snmpv1 test Suite:
<http://www.ee.oulu.fi/research/ouspg/protos/testing/c06/snmpv1/>
4. Printing does not stop after the output tray becomes full.

< Version 0.54 >

Part Number	FTP Folder	SUM Check	Model Codes/Languages
B337 5800 E	GEN.al	EC70	B337-01, -10, -15, -17
B337 5814 E	LAN.al	EC70	B337-14

1. **“Wide A4” printing**
Supports “Wide A4” printing. Engine firmware v3.18 or later must be upgraded.
2. **“A4/Letter” function**
Supports “A4/Letter” function. Engine firmware v3.17 or later must be upgraded.
3. **“Cover Page” function**
Fixed: Problem when using “Cover Page” function with Macintosh.
4. **SC2002**
Fixed: SC2002 occurs when print job using “User Code” is sent immediately after power is turned off and then on.
5. **SC2001**
Fixed: SC2001 occurs when “USTATUS TIMED” and “USTATUSOFF” commands are sent.
6. **UNIX environment.**
Fixed: Blank page is printed in UNIX environment.
7. **Shift Tray Setting**
Shift Tray settings can now be controlled from the SP Mode main menu.
Note: Main firmware ver3.17 must be installed.
8. **Staple end and Punch chad full**
Auto Continue for the staple end and punch chad full conditions can now be enabled/disabled from inside UP Mode.
9. **“prtInputName” and “prtOutputName”**
In the MIB, “prtInputName” and “prtOutputName” of each language is changed to it’s English name.

Reissued: 5-Nov-04

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024b
---------------------	-----------------	----------------

< Version 0.49 >

Part Number	FTP Folder	Model Codes/Languages
B337 5800 D	GEN.al	B337-01, -10, -15, -17
B337 5814 D	LAN.al	B337-14

1. Vertical Lines of Excel Files Disappear

A symptoms that vertical lines on prints from Excel files disappear, has been corrected.

2. Letter/Legal Mixed Job with AS400

A symptom that the auto tray switching does not function has been corrected.

3. Extra Blank Prints from SAP

A symptom that unnecessary extra blank prints are out in a mixed job with letter and legal with AS400, has been corrected.

4. Maximum Pages for Stapling in Finisher 3000

The maximum pages for stapling have been corrected.

5. FAX Counter of MIB

The FAX counter has been added onto the MIB.

6. Booklet

An error in the booklet mode has been corrected.

< Version 0.43 >

Destination	Generic	Lanier
Part Number	B337 5800 A	B337 5814 A

1. Blank Sheet as Last Page of a Duplex Job with Odd-numbered Pages**< Symptom >**

When a duplex job with odd-numbered pages is printed in the sample print function, the second side of the last sheet is stored as a blank page.

< Modification >

The blank page is deleted when the file of the job is stored as a document server.

< Note >

This modification is valid only with the engine firmware version **3.51** onwards.

2. Error when Deleted Files are Accessed**< Symptom >**

An error occurs when deleted files in the deletion list of the engine are accessed.

< Note > This modification is valid only with the engine firmware version **3.51** onwards.

Reissued: 5-Nov-04

Model: Mojito-C1/C2	Date: 11-Mar-02	No.: RA293024b
---------------------	-----------------	----------------

3. Unnecessary Characters when Downloading User Defined Symset of PCL5e
< Symptom >

Unnecessary characters are also included when Downloading User Defined Symset of PCL5e.

4. Wait State of Flash ROM
< Symptom >

The Wait State of the flash ROM is valid with not only 70-nsec ROM but also 90-nsec ROM.

< Version 0.40 >

Destination	Generic	Lanier
Part Number	B337 5800	B337 5814

This is the first version of the mass production.

Model: Mojito-C1/C2		Date: 3-Feb-05	No.: RA293032
Subject: Repeatedly performs toner end recovery		Prepared by: F.Noguchi	
From: 2nd Tech Support Sec. Service Support Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> Action required <input type="checkbox"/> Mechanical <input type="checkbox"/> Electrical <input type="checkbox"/> Service manual revision <input type="checkbox"/> Paper path <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Retrofit information <input type="checkbox"/> Other ()		

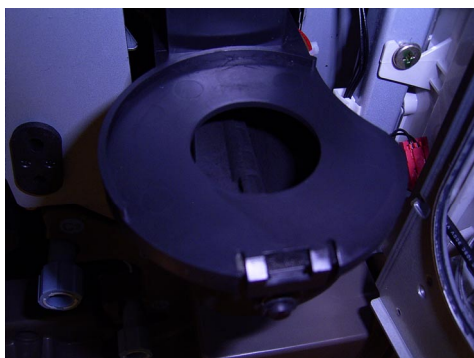
SYMPTOM

The machine does not clear the toner end condition after a new bottle is installed. As a result, the machine continues to do toner recovery and supplies too much toner.

CAUSE

Toner does not flow smoothly inside the bottle and cannot be supplied to the hopper. This can happen when:

- 1) Storage: The bottle is stood upright for a long time.
- 2) Shipping: Vibration compresses the toner.



A new bottle is installed after toner end, but the toner does not fill the front of the hopper.

SOLUTION

At the next service visit, advise users to do the following when they install a new toner bottle (see the photos below):

- 1) Make sure the outer cap of the toner bottle is closed very tightly.
- 2) Tap the bottom of the toner bottle 4 or 5 times.
- 3) Hold the bottle horizontally and shake it briskly side-to-side 5 or 6 times.
- 4) Make sure the toner moves smoothly inside the bottle (make sure there are no toner clumps).
- 5) Remove the outer cap.
- 6) Install the toner bottle in the machine.

Model: Mojito-C1/C2

Date: 3-Feb-05

No.: RA293032

Note: With a new toner bottle, the top of the toner is usually:

Before shaking: Near the 6th marking from the bottom (60% full)

After shaking: Near the 9th marking (90% full)

