

**Reissued: 31-Aug-99****RTB Correction**

The items bold italics have been corrected or added.

Model: NAD 30S/30/40		Date: 31-May-98	No: MA230001a												
Subject: China/Taiwan Version Information		Prepared by: S. Tomoe													
From: Technical Service Department.															
Classification:	<table><tr><td><input type="checkbox"/> Troubleshooting</td><td><input type="checkbox"/> Part information</td><td><input type="checkbox"/> Action required</td></tr><tr><td><input type="checkbox"/> Mechanical</td><td><input type="checkbox"/> Electrical</td><td><input checked="" type="checkbox"/> Service manual revision</td></tr><tr><td><input type="checkbox"/> Paper path</td><td><input type="checkbox"/> Transmit/receive</td><td><input type="checkbox"/> Retrofit information</td></tr><tr><td><input type="checkbox"/> Other (       )</td><td></td><td></td></tr></table>			<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 (       )		
<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 (       )															

The China and Taiwan version are going to be produced from June 1998. This RTB clarifies the differences between other Ricoh versions and China/Taiwan versions.

Please refer to the attached documents for more detail.

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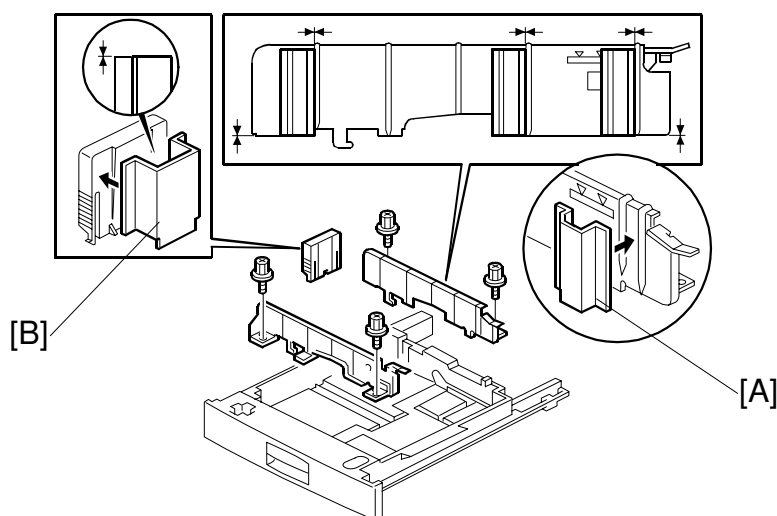
Model: NAD30/40	Date:	No:
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**For both versions**

## 3. Installation

### 3.1 Chinese paper sizes

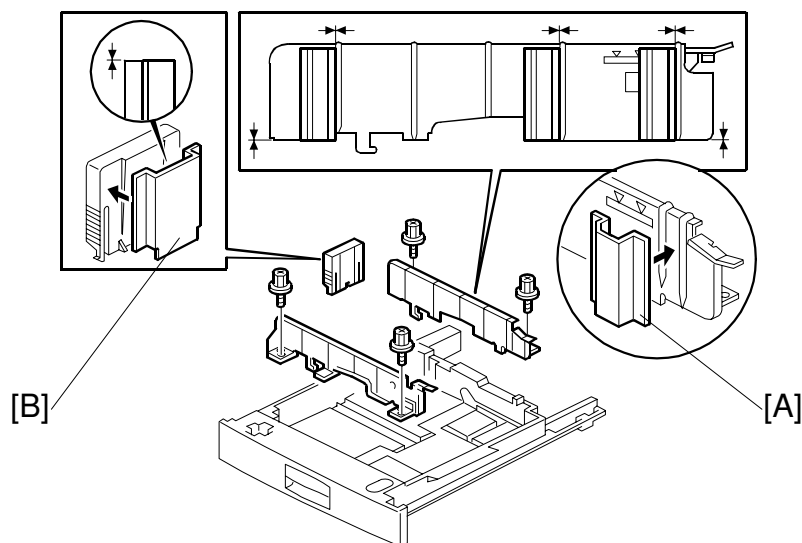
#### 3.1.1 267mm X 390mm paper



A231I542.WMF

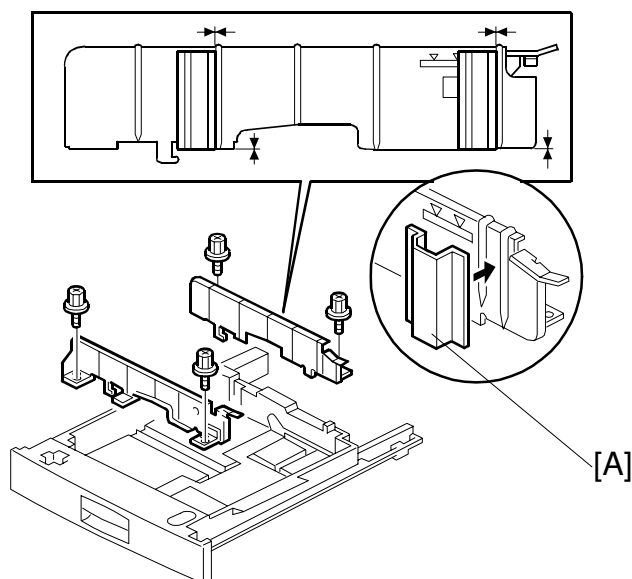
1. Remove the paper tray.
2. Remove the side fences (2 screws each) and the end fence.
3. Peel off the backing of the double-sided tape that is attached to the side fence spacer (t=7.2 mm) [A].
4. Attach the side fence spacer to the side fence as shown (3 spacers for each side fence).  
**NOTE:** Both edges of the spacer should be aligned with the bottom edge of the fence.
5. Peel off the backing of the double-sided tape that is attached to the end fence spacer (t=31 mm) [B].
6. Attach the end fence spacer to the end fence as shown.
7. Install the side fences in the 11" position in the paper tray.
8. Install the end fence in the A3 position in the paper tray.
9. Install the paper tray in the machine and enter the UP mode.
10. Select the paper size as follows
  - 267 x 390 mm paper = **8**

## 3.1.2 267 mm x 195 mm sideways paper



A231I541.WMF

1. Remove the paper tray.
2. Remove the side fences (2 screws each) and the end fence.
3. Peel off the backing of the double-sided tape that is attached to the side fence spacer (t=7.2 mm) [A].
4. Attach the side fence spacer to the side fence as shown (3 spacers for each side fence).  
**NOTE:** Both edges of the spacer should be aligned with the bottom edge of the fence.
5. Peel off the backing of the double-sided tape that is attached to the end fence spacer (t=16 mm) [B].
6. Attach the end fence spacer to the end fence as shown.
7. Install the side fences in the 11" position in the paper tray.
8. Install the end fence in the A4S position in the paper tray.
9. Install the paper tray in the machine and enter the UP mode.
10. Select the paper size as follows
  - 267 x 195 mm paper = 16 ▢

**3.1.3 195mm x 267mm lengthwise paper**

A231I540.WMF

1. Remove the paper tray.
2. Remove the side fences (2 screws each) and the end fence.
3. Peel off the backing of the double sided tape that is attached to the side fence spacer (t=5.1 mm) [A].
4. Attach the side fence spacer to the side-fence as shown (2 spacers for each side fence).  
**NOTE:** Both edges of the spacer should be aligned with the bottom edge of the fence.
5. Install the side fences in the 8" position in the paper tray.
6. Install the end fence in the 10.5" position in the paper tray.
7. Install the paper tray in the machine and enter the UP mode.
8. Select the paper size as follows
  - **195 x 267 mm paper = 16□**

## 4. SERVICE TABLE

### 4.1 Service program mode

Mode No.			Function	Settings
Class 1 and 2	Class 3			
4-301		APS Sensor Output Check	Displays the APS sensor output signals when an original is placed on the exposure glass. Bit 0: Width sensor 1 Bit 1: Width sensor 2 Bit 2: Length sensor 1 Bit 3: Length sensor 2 Bit 4: Length sensor 3 See "Detailed Section Descriptions – Original Size Detection in Platen Mode" for more details.	00000000  0: Not detected 1: Detected
4-303 *		APS Small Size Original Detection Chinese Paper Size Detection	<p>Selects whether or not the copier determines that the original is A5/HLT size when the APS sensor does not detect the size.</p> <p><i>If "A5 length/5.5" x 8.5" is selected, paper sizes that cannot be detected by the APS sensors are regarded as A5 lengthwise or 5.5" x 8.5".</i></p> <p><i>If "Not detected" is selected, "Cannot detect original size" will be displayed. Numbers 2 and 3 are used for Chinese paper sizes (267 x 390 mm and 195 x 267 mm). The meanings of numbers 2 and 3 are the same as for number 1 and 2.</i></p> <p><i>However, if the APS sensors detect the original, the machine assumes Chinese paper sizes.</i></p> <p><i>For example:</i>  A4 → 195 x 267 mm  A3 → 267 x 390 mm</p>	<b>0: Not detected</b> 1: A5 length/5.5" x 8.5" 2: Not detected (Chinese paper) 3: A5 length (Chinese paper)
4-428*	1*	Standard White Level Adjustment Flag	Displays whether or not the standard white level adjustment has been done.	0: Performed 1: Not performed

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## **4.2 Special Tools and Lubricants**

### **4.2.1 Special tools**

<b>Part Number</b>	<b>Description</b>	<b>Q'ty</b>
A2309003	Adjustment Cam – Laser Unit	1
A2309004	Positioning Pin – Laser Unit	1
A2309352	Flash Memory Card – 4MB	1
A2309351	Case – Flash Memory Card	1
A0069104	Scanner Positioning Pin (4 pcs/set)	1
54209516	Test Chart – OS-A3 (10 pcs/Set)	1
A0299387	Digital Multimeter – FLUKE 87	1
A2309099	NVRAM – Minus Counter	1
A2309600	Side Fence Spacer – 7.2 mm (6 pcs)	1
A2309610	Side Fence Spacer – 5.1 mm (4 pcs)	1
A2309620	End Fence Spacer – 31 mm	1
A2309630	End Fence Spacer – 16 mm	1

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For the China version

## 4. SERVICE TABLE

### 4.1 Service Program Mode

Mode No.			Function	Settings
Class 1 and 2	Class 3			
5-401*	82*	Restricted Access Control for Key Counter – Other Enhanced Kit	<b>Japanese version only. Do not change the value.</b>	<b>0: No</b> 1: Yes
	83*	Restricted Access Control for other counters – Other Enhanced Kit	<b>Japanese version only. Do not change the value.</b>	<b>0: No</b> 1: Yes
5-501 *		PM Alarm Interval	Sets the PM interval, with an alarm. <i>When the setting is "0", this function is disabled.</i> <i>For China version, this value should be changed to 100k.</i>	0 ~ 255 1k copies/step <b>150 k copies</b>
5-504*	1*	Jam Alarm Level (RSS function)	<b>Japanese version only. Do not change the values.</b>	0: Z 1: L 2: M <b>3: H</b>
	2*	Jam Auto Call (RSS function)		0: Off <b>1: On</b>
5-505*		Error Alarm Level	<b>Japanese version only. Do not change the values.</b>	0 ~ 255 100 copies/step <b>2500 copies (30)</b> <b>5000 copies (40)</b>

## 5. PREVENTIVE MAINTENANCE SCHEDULE

### 5.1 PM TABLE

**NOTE:** The amounts mentioned as the PM interval indicate the number of prints.

Symbol key: C: Clean, R: Replace, L: Lubricate, I: Inspect

A230/A231/A232	EM	100K	200K	300K	NOTE
<b>SCANNER/OPTICS</b>					
Reflector		C	C	C	Optics cloth
1st Mirror		C	C	C	Optics cloth
2nd Mirror		C	C	C	Optics cloth
3rd Mirror		C	C	C	Optics cloth
Scanner Guide Rails		I	I	I	Do not use alcohol.
Platen Sheet Cover	C	I	I	I	Replace the platen sheet, if necessary. Dry cloth or alcohol
Exposure Glass		C	C	C	Dry cloth or alcohol
Toner Shield Glass		C	C	C	Optics cloth
APS Sensor		C	C	C	Dry cloth or alcohol
<b>AROUND THE DRUM</b>					
Charge Roller	C	R	R	R	Clean with alcohol. After cleaning, dry the roller with a dry cloth.
Charge Roller Cleaning Pad		R	R	R	Dry cloth
Quenching Lamp			C		Dry cloth
Pick-off Pawls	C	R	R	R	Dry cloth
Spur	C	C	C	C	Dry cloth or alcohol
ID Sensor		C	C	C	Perform the ID sensor initial setting (SP3-001-2) after cleaning (blower brush)
<b>CLEANING UNIT</b>					
Drum Cleaning Blade		R	R	R	
Cleaning Entrance Seal	C	C	C	C	Blower brush or dry cloth. Replace if necessary.
Side Seal		I	I	I	
<b>DEVELOPMENT UNIT</b>					
Development Drive Gears		I	I	I	Replace every 5 PM (500k)
Development Filter			R		
Developer		I	R	I	
Entrance Seal		I	I	I	

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A230/A231/A232	EM	100K	200K	300K	NOTE
Side Seal		I	I	I	
<b>PAPER FEED</b>					
Registration Roller	C	C	C	C	Clean with water or alcohol.
Paper Feed Roller	I	R	R	R	Check the counter value for each paper tray station (SP7-204). If the value has reached 100K, replace the roller. After replacing the roller, reset the counter (SP7-816).
Separation Roller	I	R	R	R	
Pick-up Roller	I	R	R	R	
Paper Feed Roller (By-pass feed table)	I	R	R	R	
Separation Roller (By-pass feed table)	I	R	R	R	
Pick-up Roller (By-pass feed table)	I	R	R	R	
Paper Feed Guides		C	C	C	Clean with water or alcohol.
Relay Rollers	C	C	C	C	Clean with water or alcohol.
Bottom Plate Pad	C	C	C	C	Clean with water or alcohol.
Bottom Plate Pad (By-pass feed)	C	C	C	C	Clean with water or alcohol.
Registration Sensor		C	C	C	Blower brush
<b>TRANSFER BELT UNIT</b>					
Transfer Belt	C	R	R	R	Dry cloth
Transfer Belt Cleaning Blade		R	R	R	
Transfer Belt Rollers		C	C	C	Dry cloth
Entrance Seal		C	C	C	Dry cloth
Transfer Entrance Guide	C	C	C	C	Dry cloth
Used Toner Tank	I	C	C	C	Empty the tank.
<b>FUSING UNIT AND PAPER EXIT</b>					
Fusing Entrance and Exit Guide Plates		C	C	C	Clean with water or alcohol.
Hot Roller	C	R	R	R	Clean with alcohol (or suitable solvent)
Pressure Roller		R	R	R	
Fusing Thermistor		I	I	I	Clean if necessary (suitable solvent)
Cleaning Roller		C	C	C	Clean with water or alcohol.
Cleaning Roller Bushings		L	L	L	Grease Barrierta JFE 55/2
Pressure Roller Strippers		C	C	C	Clean with water or alcohol.
Hot Roller Strippers		C	R	C	Clean with water or alcohol.
Paper Exit Guide Ribs		C	C	C	Clean with water or alcohol.
<b>OTHERS</b>					
Drive Belts			I		Replace if necessary

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	EM	80K	160K	240K	NOTE
<b>ADF (for originals)</b>					
Transport Belt	C	R	R	R	Belt cleaner
Feed Belt	C	R	R	R	Belt cleaner
Separation Roller	C	R	R	R	Dry or damp cloth
Sensors		C	C	C	Blower brush
Drive Gears		L	L	L	Grease G501

	EM	100K	200K	300K	NOTE
<b>PAPER TRAY UNIT</b>					
Paper Feed Rollers	I	R	R	R	Check the counter value for each paper tray station (SP7-204). If the value has reached 100k, replace the roller. After replacing the roller, reset the counter (SP7-816).
Pick-up Rollers	I	R	R	R	
Separation Rollers	I	R	R	R	
Relay Rollers		C	C	C	Dry or damp cloth
Bottom Plate Pad	C	C	C	C	Dry or damp cloth

	EM	100K	200K	300K	NOTE
<b>LCT</b>					
Paper Feed Roller	I	R	R	R	Check the counter value for each paper tray station (SP7-204). If the value has reached 100k, replace the roller. After replacing the roller, reset the counter (SP7-816).
Pick-up Roller	I	R	R	R	
Separation Roller	I	R	R	R	
Bottom Plate Pad	C	C	C	C	Dry or damp cloth

	EM	100K	200K	300K	NOTE
<b>1,000-SHEET/3,000-SHEET FINISHERS</b>					
Rollers	C				Clean with water or alcohol.
Brush Roller	I	I	I	I	Replace if necessary.
Discharge Brush	C	C	C	C	Clean with a dry cloth
Sensors	C				Blower brush
Jogger Fences	I	I	I	I	Replace if necessary.
Punch Waste Hopper	I	I	I	I	Empty the hopper.

	EM	100K	200K	300K	NOTE
<b>1-BIN TRAY UNIT</b>					
Rollers	C				Dry or damp cloth
Copy Tray	C				Dry or damp cloth
Sensors	C				Blower brush

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## 5.2 Maintenance Items for the China version

Using Chinese paper, paper dust may accumulate inside the machine during copying. After the machine has been used for a long time, some copy quality or mechanical problems may occur. So, do the following to maintain the machine's quality.

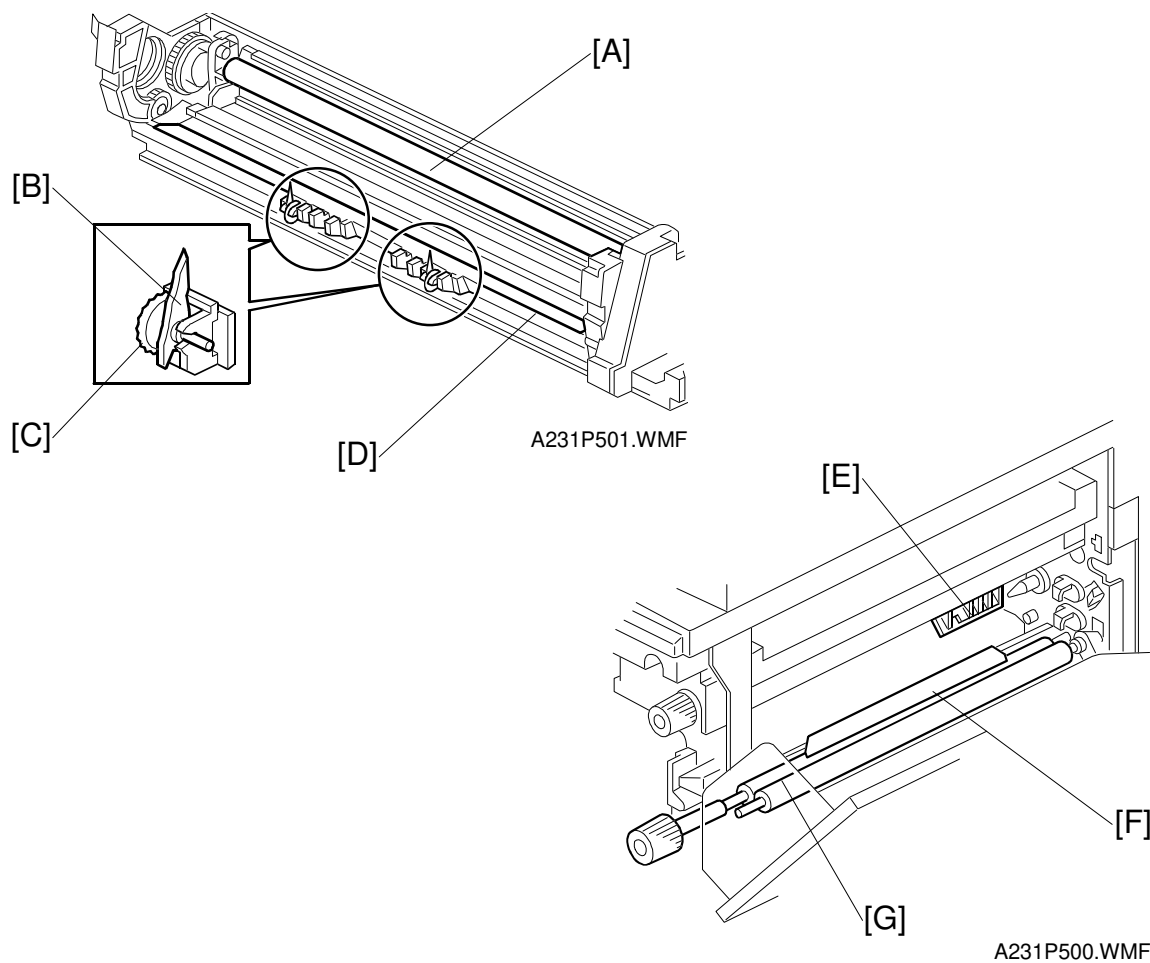
### 1. PM interval

Every 100,000 copies

**NOTE:** At the machine installation, change the value of SP5-501 (PM alarm interval) to 100 k.

### 2. At the PM and EM period, change the PM parts and/or clean the parts in accordance with the PM table. Especially, the following should be done.

	PM	EM	Action	Problem	Fig.	
Around the Drum						
Charge Roller	Replace	Clean	Clean with alcohol. After cleaning, dry the roller with a dry cloth.	Dirty background on front and rear of paper	A	
Pick-off Pawls	Replace	Clean	Clean with a dry cloth.		Toner falls onto the paper.	B
Spurs	Clean	Clean	Clean with a dry cloth.			C
PCU Entrance Seal	Clean	Clean	Clean with a dry cloth			F
ID Sensor	Clean	Clean	Clean with a dry cloth. After cleaning, do SP3001-2.		E	
Cleaning Unit						
Cleaning Entrance Seal	Clean	Clean	Clean with dry cloth	Toner falls onto the paper.	D	
Paper Feed						
Relay Rollers	Clean	Clean	Clean with water or alcohol.	Paper non feed or paper double feed	G	
Registration Roller	Clean	Clean	Clean with water or alcohol.			
Bottom Plate Pad	Clean	Clean	Clean with water or alcohol.			
Fusing Unit						
Hot roller	Replace	Clean	Clean with alcohol (or a suitable solvent).	Offset image		



1. Pull out the PCU, then clean the following parts.
  - ID sensor [E]
  - PCU Entrance Seal [F]
  - Registration Roller [G]
2. Remove the drum, then clean the following parts.
  - Charge Roller [A]
  - Pick-off Pawls [B]
  - Spurs [C]
  - Cleaning Entrance Seal [D]

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Model: NAD30/40	Date:	No:
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**Taiwan Version**

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## 1. Overall machine information

### 5.3 specifications

Power Consumption:

Mainframe only

115 V Machine

	<b>NAD30S/NAD30</b>	<b>NAD40</b>	<b>Note</b>
Maximum	Less than 1.44 kW	Less than 1.44 kW	
	Less than 1.32 kW	Less than 1.32 kW	Taiwan version
Copying	Less than 1.15 kW	Less than 1.3 kW	
		Less than 1.25 kW	Taiwan version
Warm-up	Less than 1.05 kW	Less than 1.15 kW	
Stand-by	Less than 200 W/h	Less than 220 W/h	
Energy Saver Level 1	Ave. 150 W/h	Ave. 170 W/h	
Energy Saver Level 2	Ave. 130 W/h	Ave. 150 W/h	
Auto Shut Off	Ave. 12 W/h	Ave. 12 W/h	

System: Without the optional heaters, fax unit, and printer controller.

115 V machine

	<b>NAD30S/NAD30</b>	<b>NAD40</b>	<b>Note</b>
Maximum	Less than 1.44 kW	Less than 1.44 kW	
	Less than 1.32 kW	Less than 1.32 kW	Taiwan version
Copying	Less than 1.2 kW	Less than 1.35 kW	
Warm-up	Less than 1.05 kW	Less than 1.15 kW	
Stand-by	Less than 220 W/h	Less than 260 W/h	

## 5.4 Machine configuration

Version	Item	Machine Code	No.
<b>Copy</b>	Copier (NAD30-S)	A230	8
	Copier (NAD30)	A231	8
	Copier (NAD40)	A232	8
	ARDF (Option)	A680	2
	Platen Cover (Option)	A381	1
	Paper Tray Unit (Option)	A682	9
	LCT (Option)	A683	7
	By-pass Feed Unit (Option – NAD30S only)	A689	5
	Duplex Unit (Option – NAD30S only)	A687	6
	Interchange Unit (Option – NAD30S only)	A690	4
	1-bin Tray (Option)	A684	3
	Bridge Unit (Option)	A688	13
	1000-sheet Finisher (Option)	A681	11
	3000-sheet Finisher (Option – NAD40 only)	A697	10
	Punch Unit (Option for 3000-sheet Finisher)	A812-17 (3 holes) A812-27 (2 holes)	
	External Output Tray (Option)	A825	12
	Electrical Sort Kit – 8 MB Memory (Option – NAD30S only)	A818	
	Image Enhancement Kit – HDD (Option) <small>*NOTE</small>	A691	
	Key Counter Bracket (Option)	A674	14
	Expansion Box (Option)	A692	
<b>Fax</b>	Fax Unit (Option)	A693	
	ISDN Unit (Option)	A816	
	SAF Memory – HDD (Option)	A818-10	
	Fax Feature Expander (Option)	A818-11	
	400-dpi High Resolution (Option)	A818-12	
	Handset (Option – North America only)	A646	
	Stamp Unit (Option)	A813	

**\*NOTE:** For Taiwan version, this kit will be available when the optional printer unit is installed.

Model: NAD 30S/30/40		Date: 31-May-98	No: 2
Subject: Service Manual Corrections		Prepared by: S. Tomoe	
From: Technical Service Department.			
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 (Manual Correction)		

The following should be corrected. Please correct your service manual.

## 1. 2.2.5 MEMORY BLOCK page 2-19

- Incorrect -

Copy Mode	Gradation Processing	DRAM (4 MB)	DRAM + SIMM (4 + 8 MB)	DRAM + SIMM + HDD (12 MB + 1.6GB)
Multiple copy of single page original	Binary/Grayscale	O / O	O / O	X / O

- Correct -

Copy Mode	Gradation Processing	DRAM (4 MB)	DRAM + SIMM (4 + 8 MB)	DRAM + SIMM + HDD (12 MB + 1.6GB)
Multiple copy of single page original	Binary/Grayscale	O / X	O / O	X / O

## 2. 2.6.7 TONER NEAR END/END DETECTION Page 2-44

Second paragraph from the bottom

- Incorrect -

If Vsp is **less** than 2.0V, the density of the ID sensor pattern is very light, so .....  
However, If Vsp is **bigger** than 2.0V but 90 copies have been made after toner near end was detected,....

- Correct -

If Vsp is **bigger** than 2.0V, the density of the ID sensor pattern is very light, so .....  
However, If Vsp is **less** than 2.0V but 90 copies have been made after toner near end was detected,....

**3. 2.10.3 FUSING ENTRANCE GUIDE SHIFT MECHANISM    page 2-66**

Second and third paragraphs

- Incorrect -

For thin paper, move the entrance guide to the **left** by securing it with screw holes [**C**].

For thick paper, move the entrance guide to the **right** (using screw holes [**B**]).

- Correct -

For thin paper, move the entrance guide to the **right** by securing it with screw holes [**B**].

For thick paper, move the entrance guide to the **left** (using screw holes [**C**]).

**4. 3.1.4 POWER REQUIREMENTS    page 3-3**

- Incorrect -

Input voltage level: 220V ~ 240V, 50 Hz/60 Hz: More than **6A**

- Correct -

Input voltage level: 220V ~ 240V, 50 Hz/60 Hz: More than **8A**

**5. 3.3.1 ACCESSORY CHECK    page 3-5**

- Incorrect -

12. **Operation Instructions – Fax Reference**

- Correct -

12. **Copy Quick Guide**

**6. 3.12 1000-SHEET FINISHER INSTALLATION    page 3-46**

- Delete step 5 and modify illustration A230I704.wmf (see the attached illustration).
- Add the following step after step 13 on page 3-47 and modify illustration A230i706.wmf (see the attached illustration).

14. Attach the staple position decal [F] to the ARDF, as shown.

## 7. 3.13 3000-SHEET FINISHER INSTALLATION page 3-48

- Change the step from 5 to 8
- Incorrect -
- 5. Attach **two** lower grounding plates .....
- 6. **Cut away a part of the main power switch cover [E].**
- 7. Attach the cushion [F] to the plate as shown.
- 8. Install the entrance guide plate [G] (2 screws).
- Correct -
- 5. Attach **one** lower grounding plate .....
- 6. Attach the cushion [E] to the plate as shown.
- 7. Install the entrance guide plate [F] (2 screws).
- Change illustrations A230I754.wmf and A230I755.wmf.

## 8. 3.18 KEY COUNTER INSTALLATION page 3-62

Add step 11.

11. Change the value of SP5-401-2 to 1.

**NOTE:** The key counter function is available for fax and printer modes by changing the following SP modes.

SP5-401-52 (Fax mode)

SP5-401-62 (Printer mode)

## 9. 4.4.2 SERVICE PROGRAM MODE TABLE page 4-10

- Incorrect -

Mode No.			Function	Setting
Class 1 and 2	Class 3			
2-101	3 *	<b>Left</b> Side Edge Erase Margin (Printing)	Adjusts the <b>left</b> side erase margin.	0.0 ~ 9.0 0.1 mm/step 2.0 mm
			<i>The specification is <math>2 \pm 1.5</math> mm</i>	
	4 *	<b>Right</b> Side Edge Erase Margin (Printing)	Adjusts the <b>right</b> side erase margin.	0.0 ~ 9.0 0.1 mm/step 2.0 mm
			<i>The specification is <math>2 + 2.5/- 1.5</math> mm</i>	

- Correct -

Mode No.			Function	Setting
Class 1 and 2	Class 3			
2-101	3 *	Right Side Edge Erase Margin (Printing)	Adjusts the <b>right</b> side erase margin.	0.0 ~ 9.0 0.1 mm/step 2.0 mm
			<i>The specification is <math>2 + 2.5/- 1.5</math> mm</i>	
	4 *	Left Side Edge Erase Margin (Printing)	Adjusts the <b>left</b> side erase margin.	0.0 ~ 9.0 0.1 mm/step 2.0 mm
			<i>The specification is <math>2 \pm 1.5</math> mm</i>	

## 10. Laser Beam Pitch Adjustment page 6-18

- Incorrect -

8. Adjust the laser beam pitch position .... Appear on the printout), doing steps **1, 2,** and **3** (in step **1**, input a value which is estimated to be correct, then steps **2** and **3**, then if necessary go back to step **1** and try another value).
9. After adjusting the laser beam pitch ..... (....for 600 dpi). **The laser beam pitch for 600 dpi should be 24 ~ 48 more than for 400 dpi.**

- Correct -

8. Adjust the laser beam pitch position .... Appear on the printout), doing steps **2, 3,** and **4** (in step **2**, input a value which is estimated to be correct, then steps **3** and **4**, then if necessary go back to step **2** and try another value).
9. After adjusting the laser beam pitch ..... (....for 600 dpi). **When starting the adjustment for 600 dpi, input a value for SP2-109-1 that is between 24 and 48 higher than the final result for 400 dpi.**

## 11. Blank Margin page 6-52

- Incorrect -

	SP mode	Specification
Right edge	SP2-101-4	$2 + 2.5/- 1.5$ mm
Left edge	SP2-101-3	$2 \pm 1.5$ mm

- Correct -

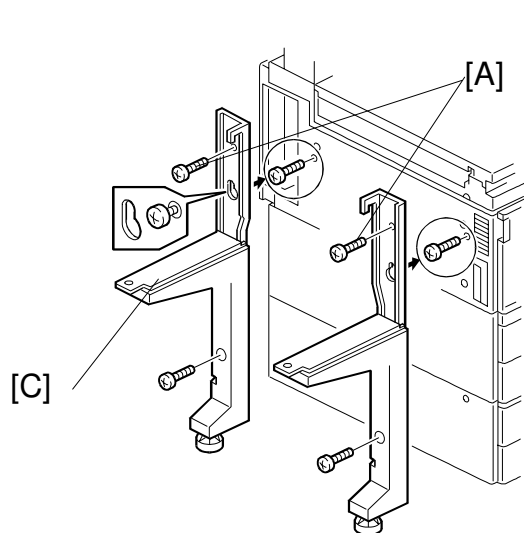
	SP mode	Specification
Right edge	SP2-101-3	$2 + 2.5/- 1.5$ mm
Left edge	SP2-101-4	$2 \pm 1.5$ mm

## 12. SC630 page 7-18

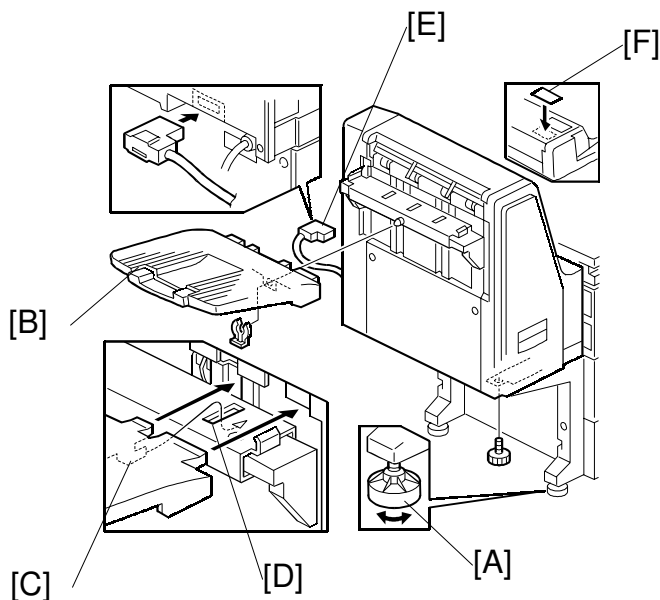
The SC condition level, [D], should be added.

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

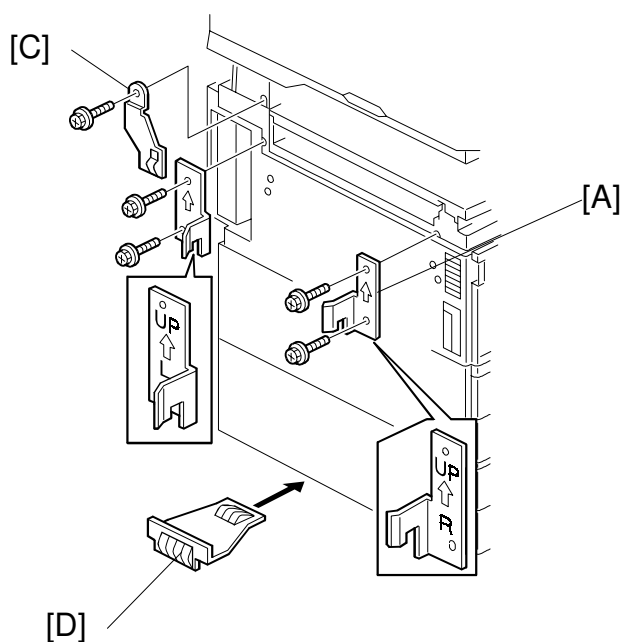
## 13. Illustrations



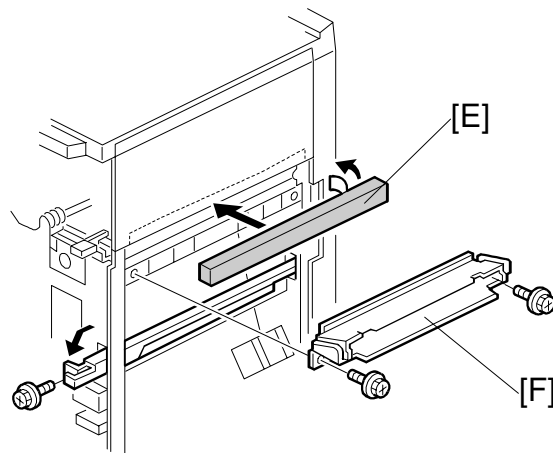
A230i704.wmf



A230i706.wmf



A230i754.wmf



A230i755.wmf

Model: NAD 30S/30/40		Date: 31-May-98	No: 3
Subject: Service Manual Corrections		Prepared by: Y. Furuya	
From: Technical Service Department.			
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 (      )		

This bulletin contains corrections for the Fax Option Type 450 service manual.

---

## Chapter 3

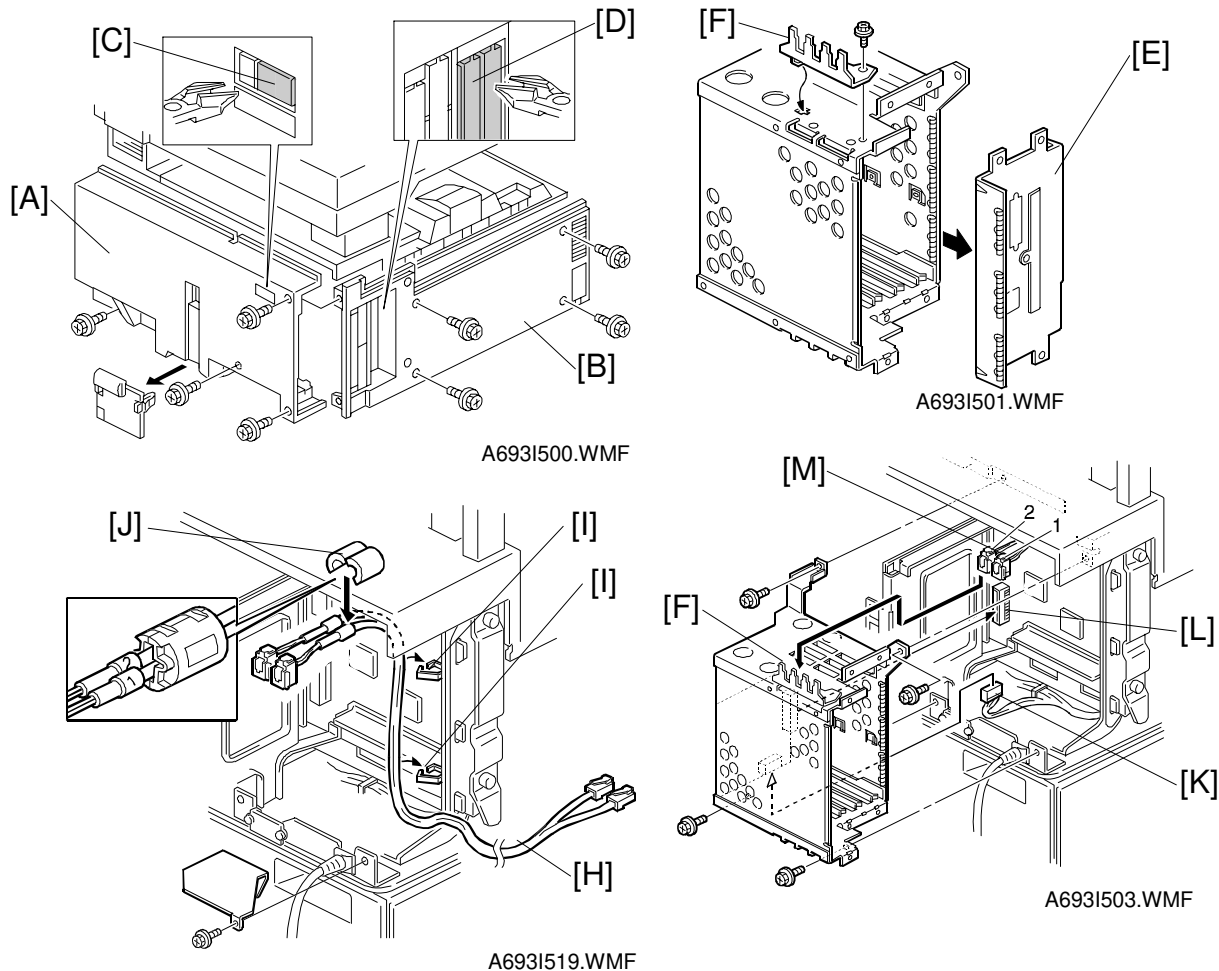
### ***Problem***

- 1) The installation procedure was not suitable for the Taiwan version
- 2) A bracket must be removed before installing the expansion box; this was not mentioned.
- 3) The procedure for attaching the PTT approval label was missing.

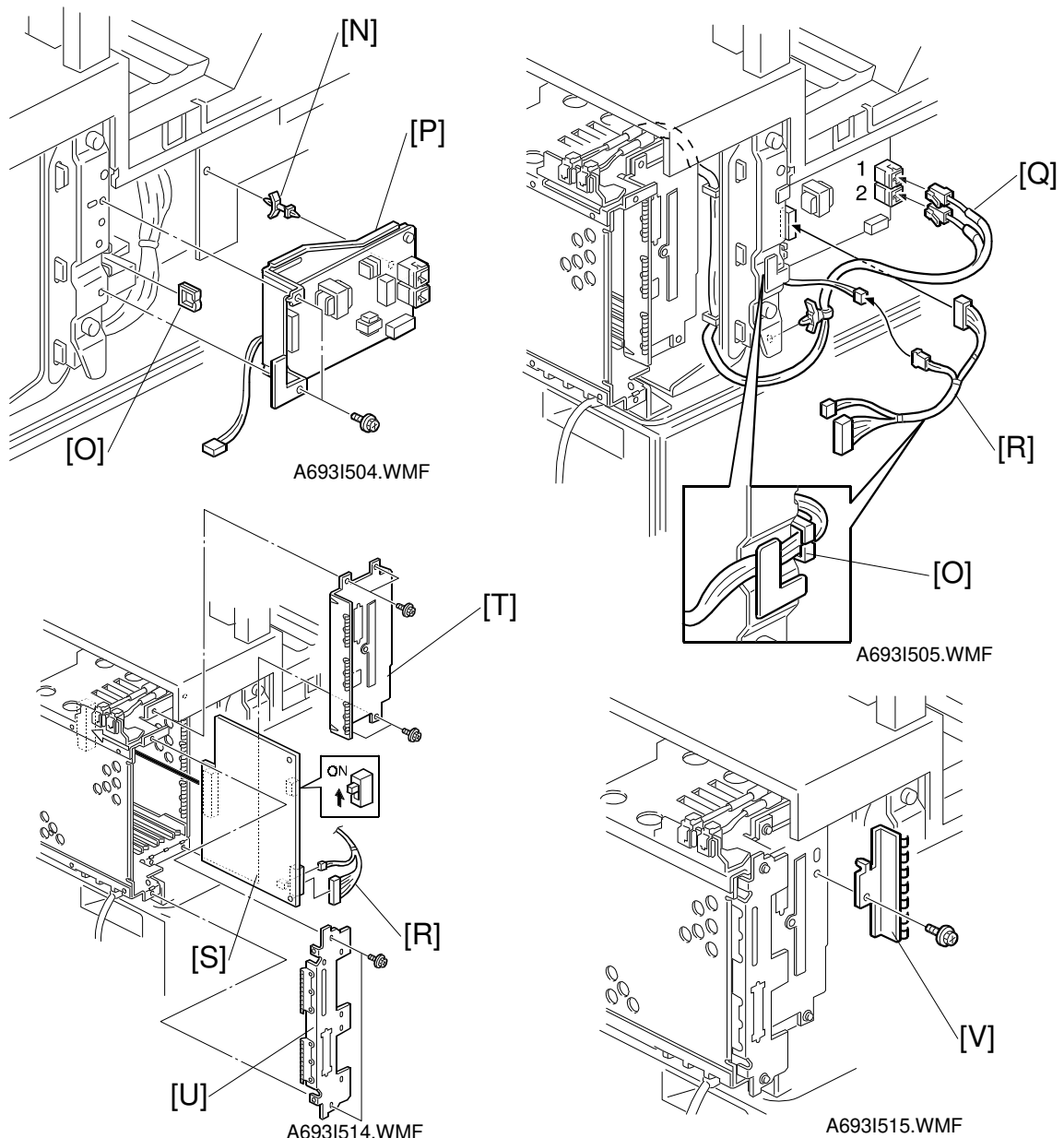
### ***Correction***

- 1) The installation procedure has been modified for all versions, including Taiwan.
- 2) Missing steps have been added. (Items 2 and 3 above; refer to pages 2 to 5.)

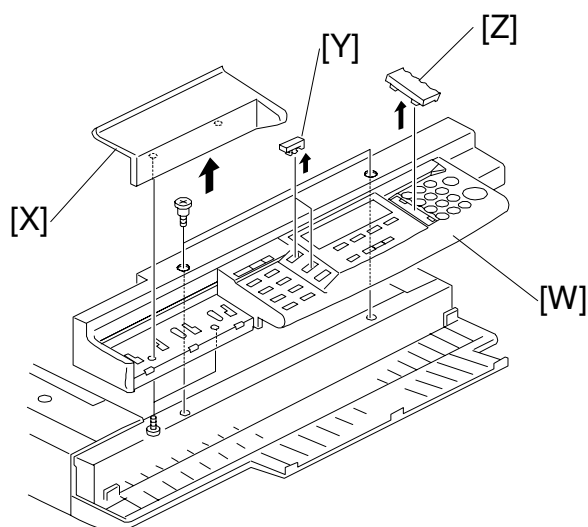
**NOTE:** To install the fax unit, the Expansion Box Type 450 is required in addition. The following procedure is written on the premise that the expansion box has not been installed.



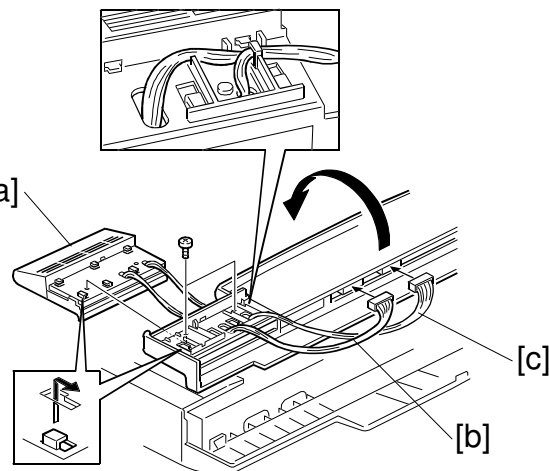
1. Remove the rear cover [A] (4 screws) and the left side cover [B] (4 screws), as shown.
2. Cut away the covers [C] and [D] (shaded parts), as shown.  
**NOTE:** If installing the fax hard disk option at the same time, refer to the hard disk installation procedure before going on to the next step.
3. Remove the cover [E] from the expansion box, then install the FCU cover bracket [F] (1 screw) as shown.  
**NOTE:** The bracket [F] is included in the fax unit.
4. Remove the bracket [G], and run the cable [H] through the clamps [I], then install a metal core [J] as shown.  
**NOTE:** The metal core [J] is not installed the model for Taiwan.
5. Connect the harness [K] to CN355 on the expansion box, then install the expansion box (4 screws) so that the CN350 fits in CN304 [L] on the BiCU.  
**NOTE:** Use a magnetic screwdriver so as not to drop any screws inside the machine.
6. Attach the modular jacks [M] to the bracket [F] as indicated on the bracket.



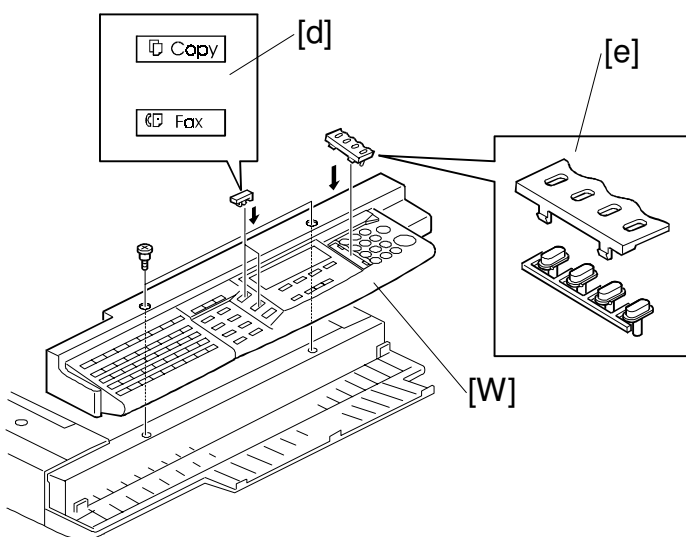
7. Set the locking support [N] and the edge saddle [O] as shown, then install the NCU/Speaker assembly [P] (2 screws).
8. Connect the cable [Q] and the harness [R] as shown. The harness [R] must run through the edge saddle [O] as shown.
9. Turn on the battery switch (SW1) on the FCU [S] then set it in the right-most slot of the expansion box as shown. Connect the harness [R] to the FCU (CN328 and CN330), then slide the FCU [S] all the way in (1 connector).
10. Install the brackets [T] (3 screws), [U] (2 screws) and [V] (1 screw) as shown.  
**NOTE:** The bracket [U] is installed only in the model for Taiwan.



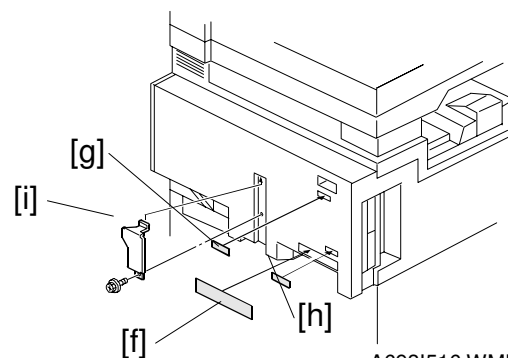
A693I507.WMF



A693I508.WMF

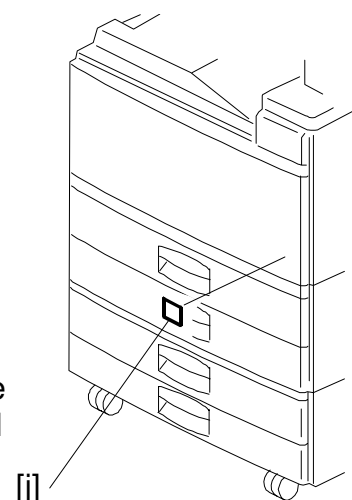


A693I509.WMF

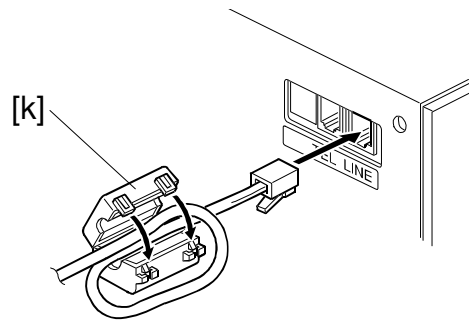


A693I516.WMF

11. Remove the operation panel [W], then remove parts [X], [Y], and [Z].
12. Install part [a], then connect the harnesses [b] and [c] to the operation panel as shown.
13. Replace the operation panel [W], then install the parts [d] and [e], as shown.
14. Replace the left side cover (4 screws) and the rear cover (4 screws).
15. Affix the serial number label [f], the LINE/TEL label [g] and the appropriate approval label [h] onto the rear cover. Then install the bracket [i] (1 screw).
16. Attach the "Super G3" label [j] to the front cover.



A693I511.WMF



A693I517.WMF

17. Wrap the phone line around the core [k] as shown, and connect it to the “LINE” jack at the rear of the machine.
18. Plug in the machine and turn on the main power switch.
19. Press the ‘Facsimile’ key and check the facsimile LED lights.  
At this time, the display reads: SC1201 - Functional problem with the fax. Data should be initialized.
- NOTE:** This is not a functional problem. The machine shows this message only when the fax unit is first installed. If the same message appears at the next power-on, check whether the battery switch (SW1) on the FCU has been turned on.
20. Press “Yes” to initialize the fax unit.
21. Set up and program the items required for fax communications as shown below. If the user function keys (F1, F2, F3, F4, and F5) need to be programmed, attach the label.

The default settings of the user function keys are as follows:

- F1: Start Manual Rx
- F2: Tx Result Display
- F3: TEL Mode
- F4: Not programmed
- F5: Not programmed

**NOTE:** Be sure to set the clock (date and time).  
Program the serial number into the fax unit (service function 10). The serial number can be found on the serial number label (attached to the machine in step 15).

---

## Chapter 4

### 4.5 Service RAM Addresses

Two addresses are mentioned for the Rx counter, 4801C4 - 4801C6 (H) and 480A64 - 480A67 (H). This is not correct. 480A64 - 480A67 (H) is the correct address range.

---

## Chapter 5

### Section 5.4.1 (Page 5-7)

#### *Problem*

**SW3 on the FCU MUST BE TURNED OFF** after downloading firmware from a flash memory card, but the manual does not explain this.

If SW3 is kept on at power-up, the fax application will not start without a 'master' flash memory card connected.

#### *Correction*

Insert the underlined step after step 8 on page 5-7 as shown below.

8. Turn off the main power switch then disconnect the flash memory card.

**9. Turn OFF (lower position) SW3 below the card slot.**

10. Turn the machine back on.

RC	RE	ASIA	

Model: NAD 30S/30/40		Date: 31-May-98	No: 4
Subject: Software Release Information		Prepared by: S.Tomoe	
From: Technical Service Department.			
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 (      )		

This RTB shows the software release information for the BICU board.

## April 1998

PCB Part Number: A2325051K (BICU board – 115V)

A2325052K (BICU board – 230V)

A2325053C (BICU board – Asia)

Software Version: 13.1.8

Program Number: A2325113E (NA)

A2325114E (EU)

A2325115B (Asia)

Effective date: From first production of April 1998

## Spec.

No.	Function	Details
1	When doing initial SP settings such as TD sensor initialization during warming-up, SC542 will occur.	If entering the following SP mode during warming-up, the beeper sounds twice and the operation is canceled. Related SP mode: SP2207 SP2801 SP2805 SP3001-2

## Problems

No.	Title	Details
1	The machine may stall when making a combined copy, after printing the archive file list.	This happens when an archive file list is printed with double sided copying, but one side does not have any archive files. Then, the machine makes a combine mode copy with one part blank.
2.	The “ Menu” key LED stays on even if copy job is finished.	This happens when selecting the Original Mode in the Menu mode and selecting the staple mode.
3.	When pressing “+” after inputting 400% with the Zoom key, “* maximum” is displayed. If this	

No.	Title	Details
	condition continues until the auto reset time, SC990 may occur.	
4	When the HDD is defective and the main power switch is turned on, the machine does not go to an SC condition but it may stall.	
5.	The description of SP 5803-6 has been corrected.	By-pass Paper Set Sensor → Unit Set Detection
6	Archive file malfunction	When an original is stored as an archive file, two archive files will be made.
7	The memory is cleared automatically, three seconds just after entering SP5801.	The memory should be cleared as follows. 1. Enter SP5801 2. Hold down the "1" for over 3 s.
8	The description of SP2213 does not fit in the display.	
9.	<b>-17 only</b>  The paper size determined when the machine detects a non-standard original size has been changed.	

## 2. May 1998

PCB part number: A2325051M (BICU board – 115V)

A2325052M (BICU board – 230V)

A2325053E (BICU board – Asia)

Software Version: 13.6.3

Program Number: A2325113G (NA)

A2325114G (EU)

A2325115D (Asia)

Effective date: Form first production of May, 1998

## Spec.

No.	Function
1	When A3 or B4 paper size is selected in the rotate sort (or stack) mode, the machine can now copy with normal sort (or stack) mode.
2	The electrical total counter value of brand new machines has been changed from -2000 to -5000.
3	During multiple copying and with no HDD option installed, the machine can scan an original for fax transmission.
4	The copy quality for light original mode has been improved. The gamma curve value for the original mode has been changed.
5	SC900-01 will be generated when the mechanical counter is disconnected.

## Problem

No.	Title	Details
1	<b>NAD40 only:</b> To improve the copy quality (Medaka image), the default values of the following SP modes have been changed. SP2001-1: 1650V → 1620V SP2005-3: 1650V → 1620V	
2.	The machine sometimes does not reach the stand-by mode condition after the main switches are turned on or after clearing a jam. This is because the machine cannot detect the zero cross signal.	Countermeasure: 1. If the zero cross signal is not detected after main power switch is turned on, SC 547 will occur. 2. If the zero cross signal is not detected after operation switch is turned on, SC 542 will occur.
3.	When changing the value of SP6105 (staple position adjustment) and SP6113 (punch hole position adjustment) to a negative value, then turning the main switch off and on, the machine does not send the SP setting to the finisher.	
4	If the electrical counter value is a negative value, the counters for the fax option do not increment.	

## NOTE:

The following software versions were released. However, soon after release, the next version was released. So, the following software version has never been used.

PCB Part number: A2325051L (BICU board – 115V)

A2325052L (BICU board – 230V)

A2325053D (BICU board – Asia)

Software Version: 13.6.1

Program Number: A2325113F (NA)

A2325114F (EU)

A2325115C (Asia)

## RTB Correction

Reissue date: **31-Aug-98**

The items in bold italics have been corrected or added.

The items with a line drawn through them have been deleted.

Model: NAD 30S/30/40		Date: 15-Jun-98	No: 5
Subject: Government Version Information		Prepared by: S.Tomoe	
From: Technical Service Department			
Classification:	<input type="checkbox"/> Troubleshooting <input checked="" 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 (      )		

The US government version NAD will be produced in Japan, and the standard version in China. Accordingly, some parts used in the government version are different from the standard version. This RTB will introduce the machine codes for the government version and the different parts.

### 1. Machine Code and Model Name

Brand	Ricoh			Gestetner/Savin		
Machine Code	<del>A230-37</del>	A231-37	A232-37	<del>A230-30</del>	A231-30	A232-30
Model Name	<del>Aficio 340</del>	<del>Aficio 350</del> <b>Aficio 355</b>	<del>Aficio 450</del> <b>Aficio 455</b>	<del>G: 3235S</del> <del>S: 9935D</del>	<del>G: 3235</del> <b>G: 2035</b> <del>S: 9935DP</del>	<del>G: 3245</del> <b>G2045</b> <del>S: 9945DP</del>

### 2. Parts Information

The following are the unique parts for the government version.

Parts Number	Description	Index No.	Page
AX400077	DC Motor – 3W	18	59
AZ230074	Power Supply Unit – 115V	14	61
A2321289	Lower Rear Cover	16	13
G0201964	Mirror	16	23

#### NOTE:

The above parts, except for the mirror, are interchangeable with those parts for the standard US version of the machine. If the above mirror is replaced with the standard version's mirror (P/N: AC030115), the laser beam pitch adjustment must be performed.

Model: NAD 30S/30/40 (1000-sheet Finisher)		Date: 30-Jun-98	No: 6
Subject: Paper rolled up on the shift tray		Prepared by: M.Mimura	
From: QAC Field Information 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

When a large number of sheets, such as thirty, are stapled in the multiple copy mode, a couple of the bottom sheets in the stapled stack may be rolled up on the shift tray.

## CAUSE

If the paper facedown-curls excessively, the stapled set of paper will not slide back all the way to the extreme right position on the shift tray. If this happens, the lower leading edge of the next set may catch on the trailing edge of the set already on the tray, causing a couple of the bottom sheets to roll up.

This symptom could occur with a thick stapled set when the copies have piled up high on the tray. Heavy paper sets will generate stronger friction with the paper set underneath, and as the copies pile up, the angle of the top copies will level off and make sliding back more difficult.

- Note:**
1. Non-staple mode copies will not exhibit this symptom because single sheets of paper are delivered to the shift tray at a time.
  2. Due to the nature of the copy job type in which this problem occurs, this symptom would more likely occur with heavy volume users such as copy shops, rather than with casual users.

## SOLUTION

- 1 The copy paper has a characteristic that one side creates more curl than the other side. Therefore, instruct the customer to flip over the paper in the paper tray to reduce the amount of paper curl.  
For those customers who have a wide selection of paper brands, recommending a paper brand which creates less curl might be more beneficial for the customer. (See page 23 of the Copy Reference manual for related remarks.)
- 2 This symptom may occur more with A4/11" x 8.5" sideways feed. This is because the paper can slide up the tray further than other paper sizes. (Larger sizes of paper will not go that far because of the friction with the lower set of copies.)

If that is the case, install the new version ROM (#A6815103E). The new version ROM decreases the exit speed of A4/11" x 8.5" sideways paper to drop the paper close to the right frame for easy switch back. (This happens for stapling more than 11 sheets.)

**Model:** NAD 30S/30/40 (1000-sheet Finisher)**Date:** 30-Jun-98**No:** 6**Cut-in Serial Numbers**

The new version ROM will be implemented into the production from July '98. The cut-in serial numbers are as follows:

Code	Brand	Cut-in Serial #s
-15	GES. US / SAVIN	1B48070001
-17	RICOH	A7728070001
-22	NRG	AR2807000
-26	INFOTEC	3R0780001
-55	LANIER	From 1 <sup>st</sup> Production

## RTB Correction

Reissue date: **31-Aug-98**

The "INFORMATION" section has been added at the end of this bulletin.

Model: NAD 30S/30/40 (3000 Finisher)		Date: 30-Jun-98	No: 7
Subject: Paper rolled on the shift tray		Prepared by: M.Mimura	
From: QAC Field Information 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

When a large number of sheets, such as fifty, are stapled in the multiple copy mode, a couple of the bottom sheets in the stapled stack may be rolled up on the shift tray.

## CAUSE

The leading edge of the stapled set of paper tends to hang down when fed out onto the shift tray. If there is an excessive facedown curl at the leading edge, it may catch on the backside of the prior stack and become rolled up.

This is more evident with thick stapled sets because the curl of the upper paper will press against the lower paper and this exaggerates the curl.

**Note:** 1. Non-staple mode copies will not exhibit this symptom as single sheets of paper are delivered to the shift tray one at a time.

2. Due to the nature of the copy job in which this problem occurs, this symptom would more likely occur with heavy volume users, such as copy shops, rather than with casual users.

## SOLUTION

- 1 The copy paper has a characteristic that one side creates more curl than the other side. Therefore, instruct the customer to flip over the paper in the paper tray to reduce the amount of paper curl.  
For those customers who have a wide selection of paper brands, recommending a paper brand which creates less curl might be more beneficial for the customer. (See page 23 of the Copy Reference manual for related remarks.)
- 2 Install the new version ROM (#A6975656B). The new version ROM is different from the current ROM in the following ways:
  - 2.1 After the shift tray has moved from its stand-by position to the upper position, it will start moving down 50 ms after the paper stack has actuated the finisher exit sensor. Thus, the paper stack makes a "soft landing" on the shift tray, reducing the chances of the paper being rolled up.
  - 2.2 The finisher exit roller speed has been increased from 600 to 700 mm/s which matches that of the stack exit. This will prevent the leading edge from receiving the pressure which may encourage the face-down curl.

**Note:** The statement in the Service Manual (page # A697-12) that "The speed of the exit roller is higher than the stack feed-out belt speed." is wrong.

Model: NAD 30S/30/40 (3000 Finisher)

Date: 30-Jun-98

No: 7

- 2.3 The mode in which the shift tray receives the stapled copies at its stand-by position after the 1,500th copy has been suspended for stapled sets of more than 35 sheets because receiving at the stand-by position may lead to a steeper paper landing angle, causing the rolling-up.

### **Cut-in Serial Numbers**

The new version ROM will be implemented into the production from July '98. The cut-in serial numbers are as follows:

Code	Brand	Cut-in Serial #s
-15	GES. US / SAVIN	1B58070001
-17	RICOH	A7778070001
-22	NRG	AR3807000
-26	INFOTEC	3R1780001
-55	LANIER	From 1 <sup>st</sup> Production

### **INFORMATION**

The ROM version data has not mistakenly been changed to "B", but stayed as "A" with A6975656B ROM.

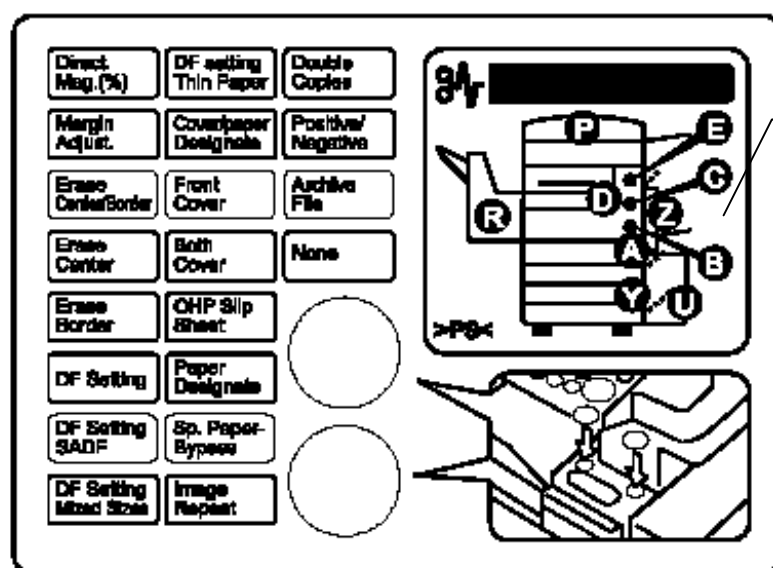
Check the label attached to the ROM for the correct version identification.

Model: NAD 30S/30/40		Date: 30-Jun-98	No: 8
Subject: Jam Location Decal		Prepared by: M.Mimura	
From: QAC Field Information 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

This bulletin clarifies the function of the jam location decal in the option decal sheet (#A2327380 for LT and #A2327780 for A4).

The jam locations are indicated on the Jam Removal Sheet (#A2321380) located inside the copier front cover. However, the jam location decal is available so that the customer can determine the jam location without opening the front cover.

The position of the jam location decal is not pre-determined. You may place it wherever it stands out after installing all peripherals.



Option Decal Sheet

Model: NAD 30S/30/40		Date: 30-Jun-98	No: 9
Subject: Service Manual Correction		Prepared by: S.Tomoe	
From: QAC Field Information 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 (      )		

Unify the name of the SP mode both on the machine display and in the service manual.

Incorrect

Class1 and 2	Class 3		Function	Setting
2-805		Process Initial Setting	Performs the process initial setting. Press 1 to start.	1. Start

Correct

Class1 and 2	Class 3		Function	Setting
2-805		<b>Developer Initialization</b>	Performs the <b>developer initialization</b> . Press 1 to start.	1. Start

## RTB Correction

Reissue date: **31-Jul-98**

The contents have been totally revised because the original version was created with incorrect information.

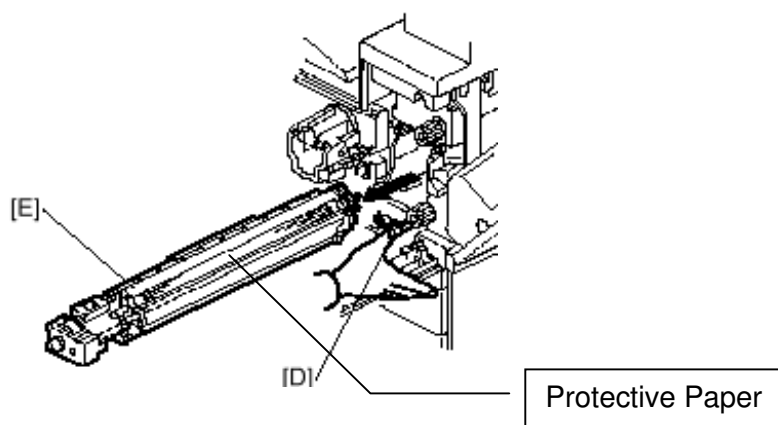
Model: NAD 30S/30/40 - European version (RPL-made) only		Date: 15-Jul-98	No: 10
Subject: Protective Paper on the Development Roller		Prepared by: M.Mimura	
From: QAC Field Information Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> 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

Please be informed that the RPL-made NADs will have a protective sleeve on the development roller (RPL: Ricoh UK Products Limited).

The field technicians are instructed in the Service Manual to keep the development unit away from the PCU when removing / installing the PCU to prevent the development unit from scratching the drum.

For the same purpose at RPL, they cover the development roller with the protective paper. This is because they work with the development unit with a bare roller (which may hit the drum hard) and they produce a large number machines, which requires a more tolerant method for the factory workers.

Therefore, when installing the RPL-made machines, remove the protective paper.



Note: China- and Japan-made NADs will not have the protective paper.

Model: NAD 30S/30/40		Date: 15-Jul-98	No: 11
Subject: Jam History Information		Prepared by: S.Tomoe	
From: QAC Field Information 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 (      )		

This informs of the meaning of the jam code in SP7-507.

## Copy Jam Condition (Jam Code) Table

Code	Condition
01	Jams at power on
03	1st paper tray: paper non-feed jam
04	2nd paper tray : paper non-feed jam
05	3rd paper tray: paper non-feed jam
06	4th paper tray: paper non-feed jam
07	LCT: Paper non-feed jam
08	Upper relay sensor: paper does not activate the sensor
09	Lower relay sensor: paper does not activate the sensor
10	Upper relay sensor – Optional PTU: paper does not activate the sensor
13	Registration sensor: paper does not activate the sensor
16	Exit sensor: paper does not activate the sensor
17	Bridge exit sensor: paper does not activate the sensor
18	Bridge relay sensor: paper does not activate the sensor
19	Duplex entrance sensor: paper does not activate the sensor
23	Duplex exit sensor: paper does not activate the sensor
24	1-bin tray entrance sensor: paper does not activate the sensor
25	Fusing entrance sensor: paper does not activate the sensor
26	3000-sheet finisher upper tray exit sensor: paper does not activate the sensor
27	Finisher shift tray exit sensor: paper does not activate the sensor
28	Staple tray paper sensor: paper does not activate the sensor
29	Finisher stack feed-out belt HP sensor: paper does not activate the sensor
30	Mail box entrance sensor: paper does not activate the sensor
31	Mail box proof tray exit sensor: paper does not activate the sensor
32	Mail box relay sensor: paper does not activate the sensor
33	Mail box sensor: paper does not activate the sensor
57	LCT: paper doe not activate the sensor
58	1st paper tray: paper stays at the sensor
59	2nd paper tray: paper stays at the sensor
60	3rd paper tray: paper stays at the sensor
61	4th paper tray: paper stays at the sensor
63	Registration sensor: paper stays at the sensor
66	Exit sensor: paper stays at the sensor
67	Bridge exit sensor: paper stays at the sensor

Model: NAD 30S/30/40

Date: 15-Jul-98

No: 11

<b>Code</b>	<b>Condition</b>
68	Bridge relay sensor: paper stays at the sensor
69	Duplex entrance sensor: paper stays at the sensor
73	Registration sensor: paper stays at the sensor
74	1-bin tray entrance sensor: paper stays at the sensor

**Original Jam Condition (Jam Code) Table**

<b>Code</b>	<b>Condition</b>
01	Jams at power on
03	Jams in the feed-in area
04	Jams in the feed-out area

## RTB Correction

Reissue date: **31-Aug-98**

The items in bold italics have been corrected or added.

The items with a line drawn through them have been deleted.

Model: NAD 30S/30/40		Date: 15-Jul-98	No: 12
Subject: Key Logging Data Information		Prepared by: S.Tomoe	
From: QAC Field Information 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 (      )		

This informs the meaning of the Key Logging Data which is listed in the logging data sheet.

This key logging data may be useful when an unsolved problem is caused by a user operation.

## Key Logging Data Table

Code	Key	Code	Key	Code	Key	Code	Key
00		10	Clear	20	Zoom	30	Quick Dial 01
01	Ten key – 1	11	Speed Dial	21	Enhanced Image	31	Quick Dial 02
02	Ten key – 2	12	On Hook	22	Sort	32	Quick Dial 03
03	Ten key – 3	13	Pause	23	Duplex	33	Quick Dial 04
04	Ten key – 4	14	Tone	24	Menu	34	Quick Dial 05
05	Ten key – 5	15	⇐	25	Shortcut 1	35	Quick Dial 06
06	Ten key – 6	16	⇒	26	Shortcut 2	36	Quick Dial 07
07	Ten key – 7	17	LCD F1	27	Shortcut 3	37	Quick Dial 08
08	Ten key – 8	18	LCD F2	28	Shortcut 4	38	Quick Dial 09
09	Ten key – 9	19	LCD F3	29	Stamp	39	Quick Dial 10
0A	Ten key – 0	1A	LCD F4	2A	Resolution	3A	Quick Dial 11
0B	★/■	1B	Original Type	2B	Tx Mode	3B	Quick Dial 12
0C	#	1C	Lighter	2C	Fax F1 <sup>note1</sup>	3C	Quick Dial 13
0D	Start	1D	Darker	2D	Fax F2 <sup>note1</sup>	3D	Quick Dial 14
0E	Stop	1E	AID	2E	Fax F3 <sup>note1</sup>	3E	Quick Dial 15
0F	Program	1F	Auto R/E	2F	Fax F4 <sup>note1</sup>	3F	Quick Dial 16

Model: NAD 30S/30/40

Date: 15-Jul-98

No: 12

Code	Key	Code	Key	Code	Key	Code	Key
40	Quick Dial 17	50	Quick Dial 33	60	Quick Dial 49	A0	Clear Modes
41	Quick Dial 18	51	Quick Dial 34	61	Quick Dial 50	A1	User Tools
42	Quick Dial 19	52	Quick Dial 35	62	Quick Dial 51	A2	Copy
43	Quick Dial 20	53	Quick Dial 36	63	Quick Dial 52	A3	Fax
44	Quick Dial 21	54	Quick Dial 37	64	Quick Dial 53	A4	Printer
45	Quick Dial 22	55	Quick Dial 38	65	Quick Dial 54	A5	Interrupt
46	Quick Dial 23	56	Quick Dial 39	66	Quick Dial 55	A6	Operation Sw
47	Quick Dial 24	57	Quick Dial 40	67	Quick Dial 56	A7	User Code
48	Quick Dial 25	58	Quick Dial 41	68	<del>Quick Dial 57</del> N/A	A8	Energy Saver
49	Quick Dial 26	59	Quick Dial 42	69	<del>Quick Dial 58</del> N/A	A9	SP mode (service)
4A	Quick Dial 27	5A	Quick Dial 43	6A	<del>Quick Dial 59</del> N/A	AA	SP mode (factory)
4B	Quick Dial 28	5B	Quick Dial 44	6B	<del>Quick Dial 60</del> N/A	AB	SP mode (sales)
4C	Quick Dial 29	5C	Quick Dial 45	6C	<del>Quick Dial 61</del> N/A	AC	RSS manual call
4D	Quick Dial 30	5D	Quick Dial 46	6D	<del>Quick Dial 62</del> N/A	AD	PM alarm
4E	Quick Dial 31	5E	Quick Dial 47	6E	<del>Quick Dial 63</del> N/A	AE	N/A
4F	Quick Dial 32	5F	Quick Dial 48	6F	<del>Quick Dial 64</del> N/A	AF	N/A
						B0	Fax Reset
						B1	Fax F1 <sup>note2</sup>
						B2	Fax F2 <sup>note2</sup>
						B3	Fax F3 <sup>note2</sup>
						B4	Fax F4 <sup>note2</sup>
						B5	Fax F5 <sup>note2</sup>

- Note:**
1. These codes will be used when pressing these keys in fax mode.
  2. These codes will be used when pressing these keys in any application mode (copy, fax, and printer).

Model: NAD 30S/30/40		Date: 31-Aug-98	No: 13
Subject: Premature Toner Overflow detection		Prepared by: M.Mimura	
From: QAC Field Information Dept.			
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

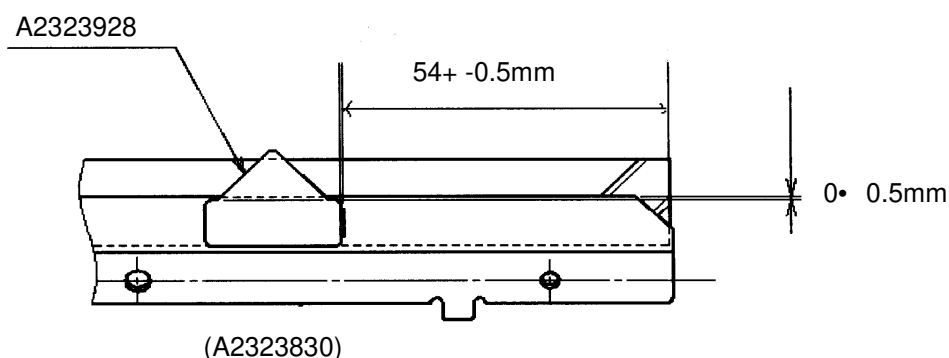
Toner overflow is detected prematurely.

## CAUSE

When heavy copy jobs are made consecutively, used toner scraped off by the transfer belt cleaning blade may scatter and pile up on the toner overflow sensor. In the worst case scenario, this leads to an overflow detection malfunction.

## SOLUTION

1. Install the Toner Guide Mylar (#A2323928) on the transfer belt cleaning blade. This mylar will prevent the used toner from passing by the toner overflow sensor.



2. Replace the old type blade with the new type blade (#A2323830) which has the toner guide mylar.

## Factory Action

The new type cleaning blade has been implemented from the following production runs:

RPL: From July '98 production

RAI: From August '98 production

(See an MB to be issued later for the cut-in serial numbers.)

Model: NAD 30S/30/40		Date: 30-Sep-98	No: 14
Subject: Bridge Unit Condensation		Prepared by: E. Fukuyama	
From: QAC Field Information 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

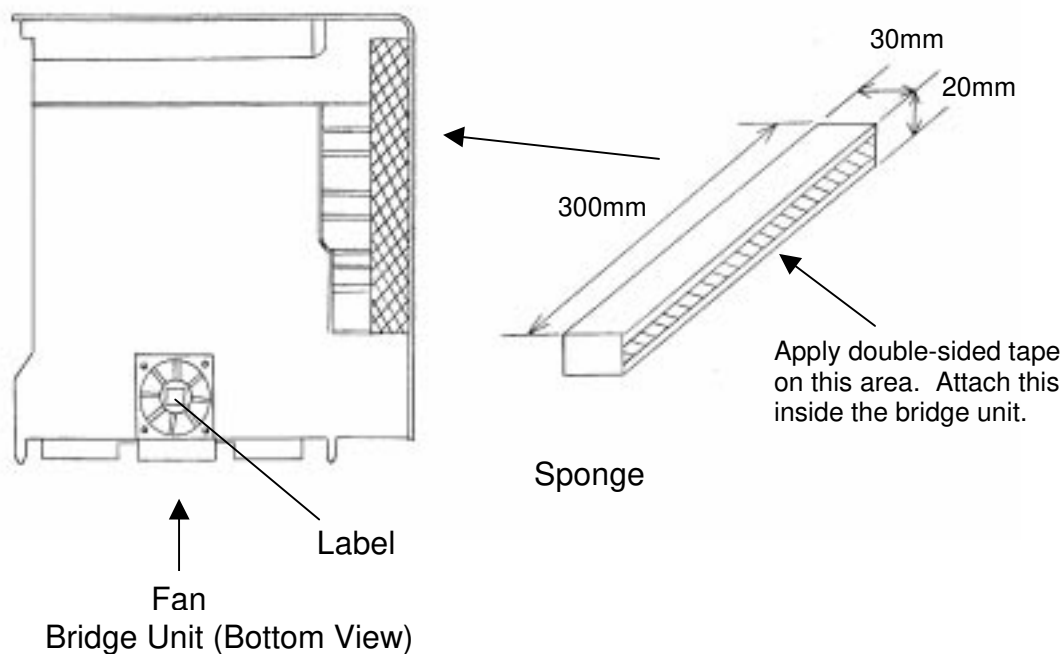
If a large number of copies are made shortly after the power has been turned on, condensation may develop inside the bridge unit. Droplets of water will then adhere to the edge of the paper and eventually lead to leaking from the bridge unit. In low humidity environments, the paper may absorb the humidity.

## ACTION

1. Please turn around the cooling fan installed at the bottom of the bridge unit. (The label on the fan should now be visible.)
2. Attach a sponge to the inside of the bridge unit to soak up the drops of water.

Turning around the cooling fan will prevent condensation from developing on the paper. However, this may lead to an increase in temperature within the unit and may result in condensation in the unit.

Please see below for details concerning the size of the sponge and the position where it should be attached.



Model: NAD 30S/30/40		Date: 30-Sep-98	No: 15
Subject: PC-Fax Expander Type 450		Prepared by: M.Mano	
From: QAC Field Information 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 (Service manual for new option)		

The service manual for the PC-FAX Expander Type 450 (15 pages) follows.

# **SERVICE MANUAL**

## **PC-FAX EXPANDER TYPE 450**

September 4th, 1998  
Subject to change

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# 1. OVERALL INFORMATION

## 1.1 SPECIFICATIONS

Item	Description
PC Fax Interface	EIA/TIA Class 2 (Class 1 is not supported)
Host Interface Connector	EIA/TIA RS232C DB25 female connector
Scanner	TWAIN interface Maximum resolution: 200 x 200 dpi

## 1.2 FEATURES

- ❑ Class 2 fax transmission directly from a host PC  
(PC fax application required)
- ❑ Class 2 fax transmission through SAF memory  
(PC fax application required)
- ❑ Class 2 fax reception directly to a host PC  
(PC fax application required)
- ❑ Class 2 fax reception through SAF memory  
(PC fax application required)
- ❑ Local printing from a PC fax application  
(PC fax application required)
- ❑ Local scanning from the machine's scanner using TWAIN API  
(CFM Twain driver required)

## 2. DETAILED DESCRIPTIONS

### 2.1 AT COMMANDS AND RESPONSES

#### 2.1.1 CLASS 0 COMMANDS

Command	Function	Remarks
ATA	Answer	
ATD	Dial	
ATE	Command echo	
ATH	Switch-hook control	
ATI	Identification	
ATL	Speaker volume	
ATM	Speaker control	
ATP	Set pulse dial as default	The machine returns OK, but the function is not supported.
ATQ	Result code display	
ATS	S register	
ATT	Set tone dial as default	
ATV	Result code form	
ATX	Extended result codes	The machine returns OK, but the function is not supported.
ATZ	Reset	
AT&C	DCD option	The machine returns OK, but the function is not supported.
AT&D	DTR option	
AT&F	Restore factory configuration	

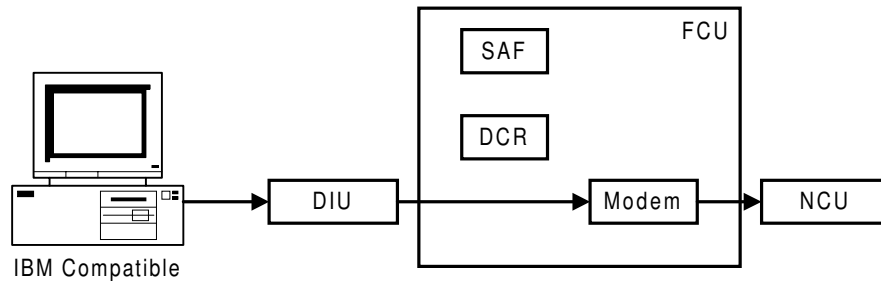
#### 2.1.2 CLASS 2 COMMANDS

Command	Function	Remarks
AT+FCLASS?	Service class	The machine responds "0" or "2".
AT+FMFR?	Identify manufacturer	The machine responds "RICOH(NAD)".
AT+FLID	Local ID string	
AT+FBOR	Phase C data bit order	
AT+FCR	Capability to receive	The machine returns OK, but the function is not supported.
AT+FDCC	DCE capability parameters	
AT+FDIS	Current session parameters	
AT+FDT	Data transmission	
AT+FET	Transmit page punctuation	
AT+FDR	Phase C receive data	
AT+FMDL?	Identify model	The machine responds "PC-FAX EXPANDER (NAD)".

Command	Function	Remarks
AT+FREV?	Identify revision	The machine responds with FCU ROM version and release date.
AT+FAA	Adaptive answer	The machine returns OK, but the function is not supported.
AT+FPHCTO	Phase C timeout	
AT+FECM	ECM parameter	
AT+FBUG	Session manager reporting parameter	
AT+FPTS	Page transfer status	
AT+FAXERR	Fax error value	The machine returns OK, but the function is not supported.
AT+FDCS	Current session results	
AT+FCQ	Copy quality capability parameter	The machine returns OK, but the function is not supported.
AT+FK	Session termination	
+FHNG	Call termination with status	
+FCON	Facsimile connection response	
+FCSI	Report the CSI	
+FTSI	Report the TSI	
+FCFR	Indicate CFR	

## 2.2 CLASS 2 FAX COMMUNICATION

### 2.2.1 DIRECT TRANSMISSION

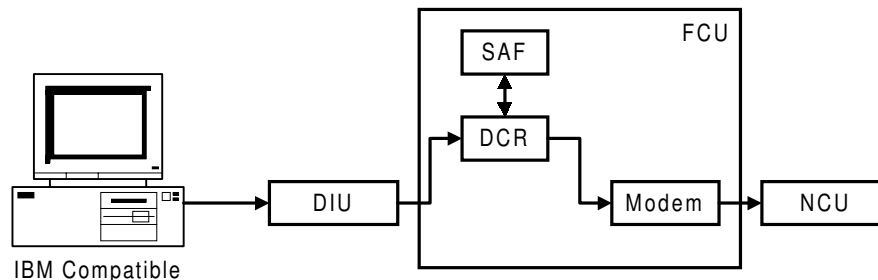


A824D001.WMF

The host computer sends commands and image data to the machine through the DIU during transmission.

- NOTE:**
- 1) Group dials programmed in the machine cannot be used.
  - 2) ISDN G4 numbers programmed in quick or speed dials cannot be used.
  - 3) If ISDN is selected for G3 communication (system switch 0A, bit 6), the G3 numbers must have been programmed in quick or speed dial.
  - 4) T.30 optional protocols (e.g., BFT) are not supported by class 2 fax communication.

### 2.2.2 MEMORY TRANSMISSION

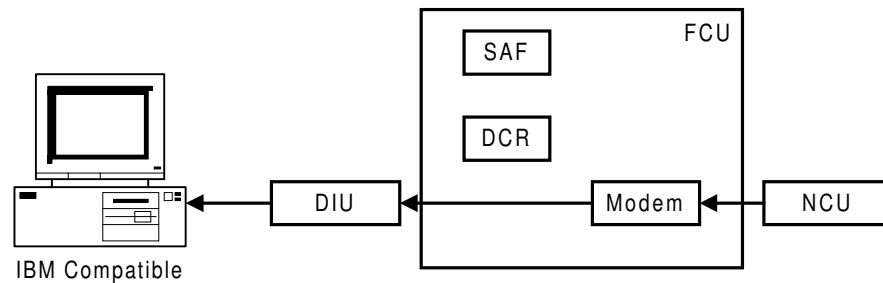


A824D002.WMF

The host computer sends destination number(s) and image data to the machine through the DIU during transmission. The machine stores the image in the SAF memory, then makes a fax transmission.

- NOTE:**
- 1) If the memory overflows while storing the first page into SAF memory, the machine does not start the transmission.
  - 2) If the memory overflows while storing the second or subsequent page into SAF memory, the machine transmits all the successfully stored pages.
  - 3) When fax numbers programmed in the machine's quick or speed dials are specified using the PC fax application, all the specified numbers must have been programmed in the fax machine.
  - 4) T.30 optional protocols (e.g., BFT) are not supported by class 2 fax communication.

### 2.2.3 DIRECT RECEPTION

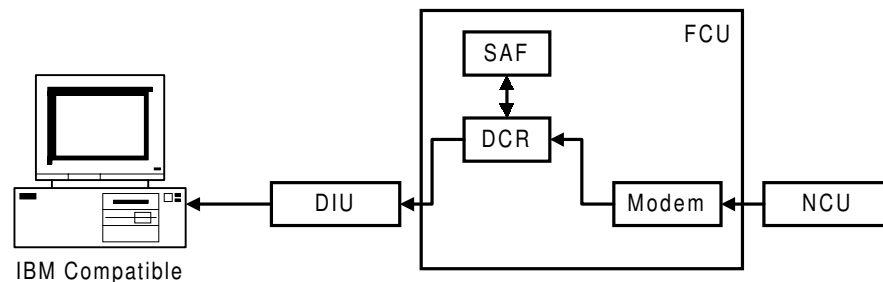


A824D003.WMF

The machine transfers received image data directly to the host PC without storing it into SAF memory.

- NOTE:**
- 1) If the host PC is not ready to receive a fax message, the machine receives the message into SAF memory.
  - 2) Even if the SAF memory is full, the machine starts fax reception. However, the machine will not continue reception if the host computer is not ready to receive a message.
  - 3) The "Number of rings to answer" parameter in the PC fax application must not exceed 4.

### 2.2.4 MEMORY RECEPTION



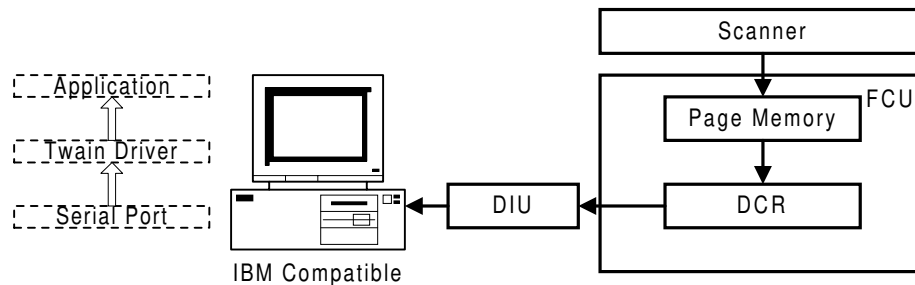
A824D004.WMF

The machine receives a fax message in the SAF memory, then transfers data to the host computer after the reception has finished. The machine prints the received message after transferring data to the host if user parameter 20 – bit 4 is set to "1: Print".

- NOTE:**
- 1) If an error occurs due to cable disconnection, the PC fax application must be restarted to receive the message.
  - 2) Memory reception is not possible when forwarding is enabled.
  - 3) Manual reception from the PC fax application is not supported.
  - 4) The "Number of rings to answer" parameter in the PC fax application must not exceed 4.

## 2.3 SCANNING AND PRINTING

### 2.3.1 SCANNING

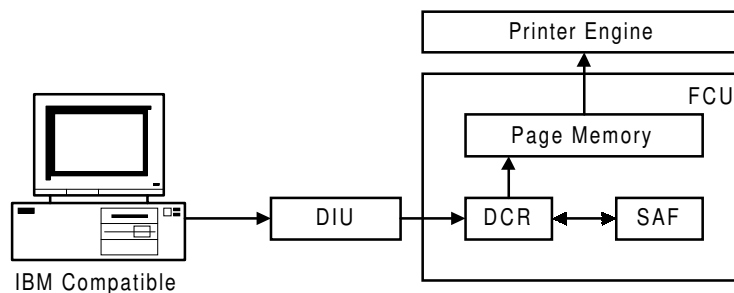


A824D005.WMF

The machine scans an original into page memory, then transfers the data to the host PC. The data is sent to the application through the CFM Twain driver.

**NOTE:** 1) The maximum resolution is 200 x 200 dpi.

### 2.3.2 PRINTING



A824D006.WMF

The machine receives print data into SAF memory as fax image data, then prints it after all the data has been transferred from the host PC.

The destination number "0000" informed from the host PC identifies a print job.

**NOTE:** 1) If SAF memory runs out while receiving print data, the machine prints up to the successfully received data.  
 2) The machine cannot receive print data while printing a message from the SAF memory. The data will be received after printing.  
 3) If a fax destination is specified together with the print destination "0000", the destinations specified after "0000" will be delayed until the machine prints all pages in the message.

---

### 3. INSTALLATION

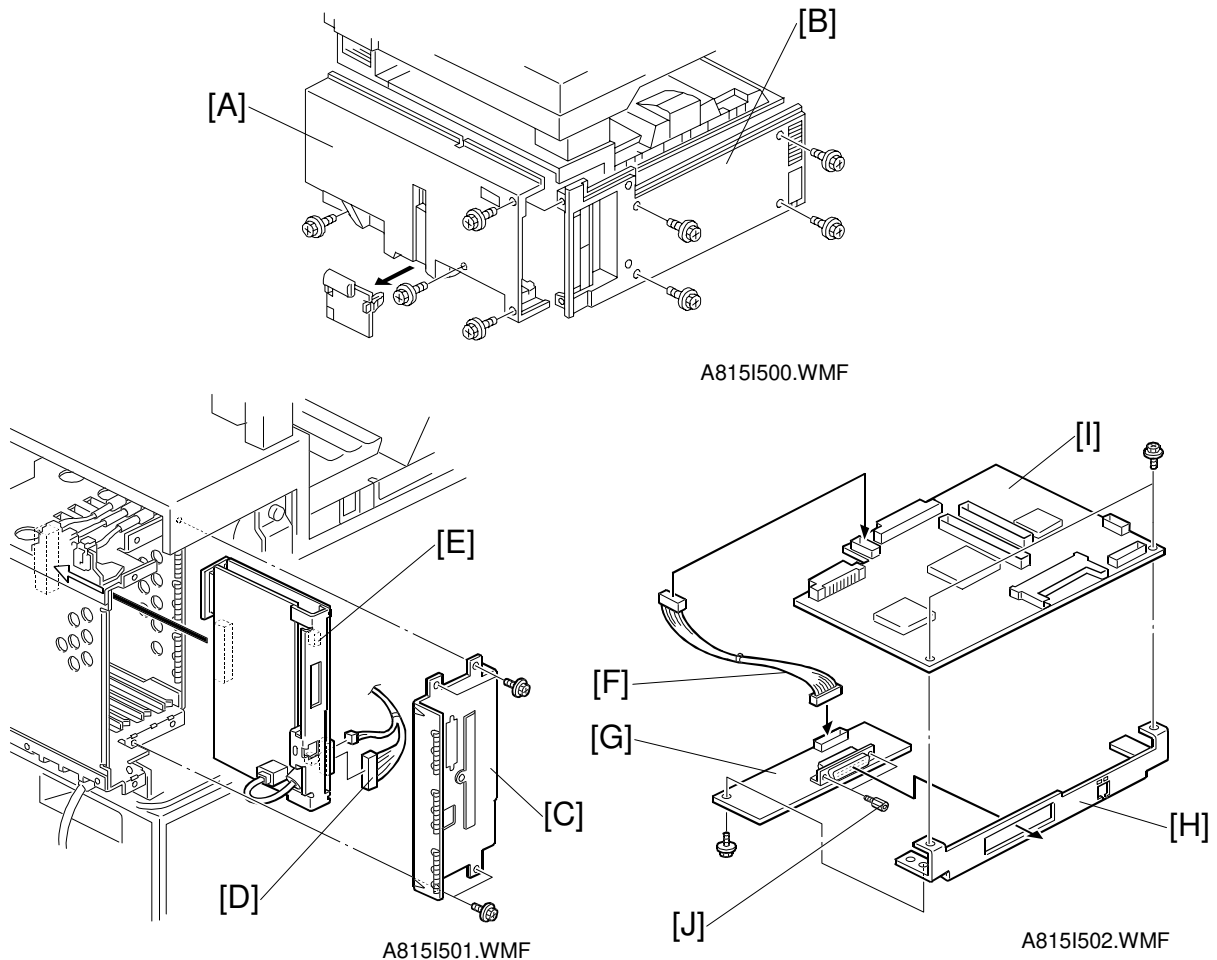
**THIS OPTION MUST BE INSTALLED BY A CUSTOMER SERVICE REPRESENTATIVE WHO HAS COMPLETED THE TRAINING COURSES FOR THE BASE COPIER AND THIS OPTION.**

- NOTE:**
- 1) Never install telephone wiring during a lightning storm.
  - 2) Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
  - 3) Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
  - 4) Use caution when installing or modifying telephone lines.
  - 5) Avoid using a telephone (other than a cordless type) during an electric storm. There may be a remote risk of electric shock from lightning.
  - 6) Do not use an telephone to report a gas leak in the vicinity of the leak.

**CAUTION**

**Before installing this option, turn off the main switch, and disconnect the power cord.**

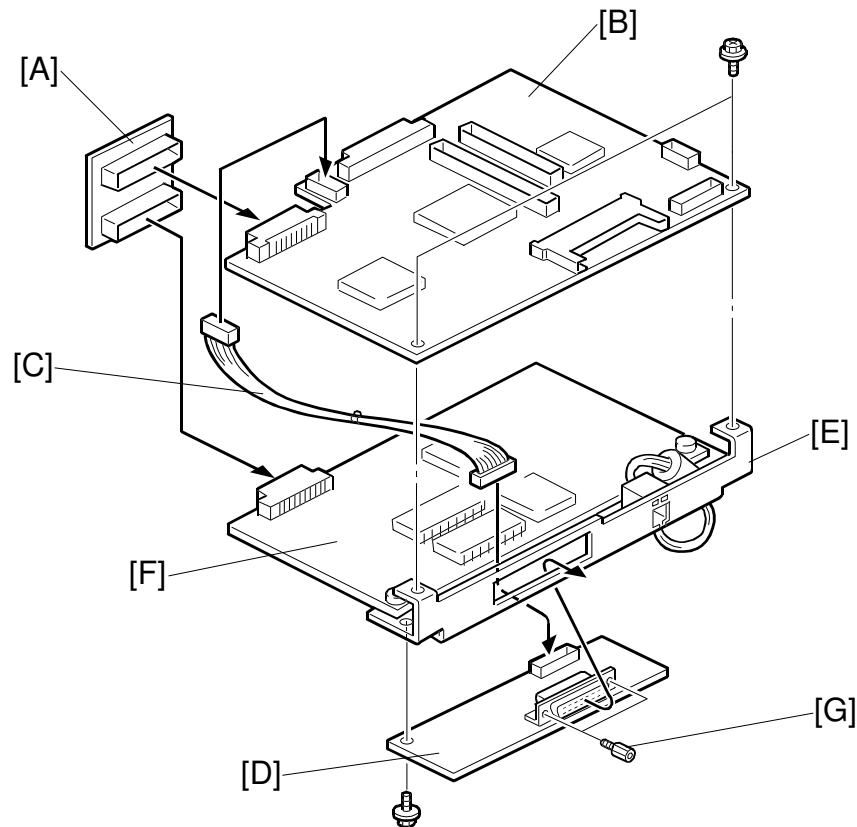
## INSTALLATION PROCEDURE



1. Remove the rear cover [A] (4 screws) and the left-side cover [B] (4 screws).
2. Remove the bracket [C] (2 screws) and disconnect the harness [D], then remove the FCU [E] from the expansion box.  
**NOTE:** If the ISDN unit was already installed, go to “with the ISDN unit” section on the next page.

### • Without the ISDN unit

3. Connect the harness [F] to the DIU [G]. (RS232C interface)
4. Attach the bracket [H] enclosed in the PC-Fax Expander to the DIU [G]. (2 screws)
5. Attach the FCU [I] to the bracket [H] (2 screws).
6. Connect the harness [F] to the CN326 on the FCU [I] as shown.
7. Remove 2 hexagonal screws [J] from the DIU [G].  
 Go to step 8 on page 3-4.



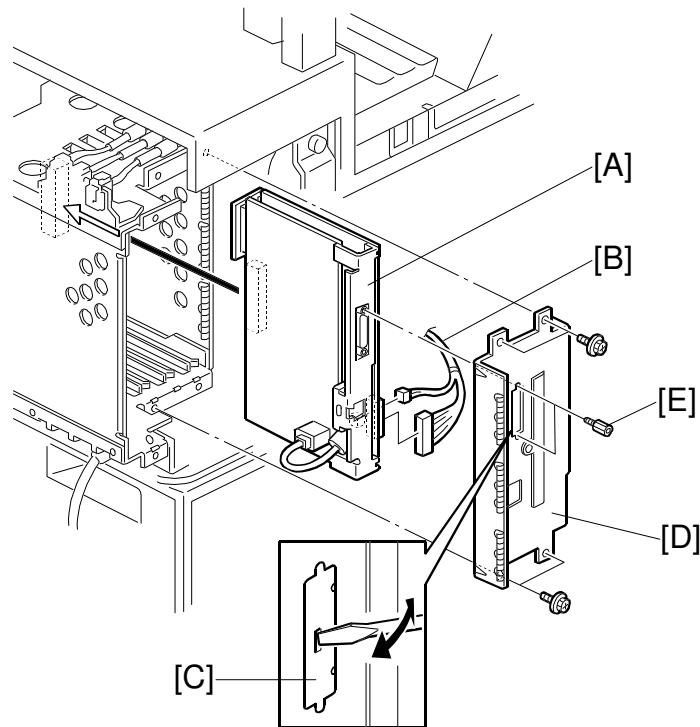
A815I503.WMF

- **With the ISDN unit**

**NOTE:** The bracket which is enclosed in the PC-Fax Expander is not used.

3. Disconnect the interface board [A], then remove the FCU [B] from the assembly as shown.
4. Connect the harness [C] to the DIU [D], then attach the DIU [D] to the bracket [E] as shown
5. Make sure that the harness [C] is between the ISDN board [F] and the FCU [B], then replace the FCU [B] as shown.
6. Connect the harness [C] to the CN326 on the FCU [B], then replace the interface board [A] as shown.

**NOTE:** Make sure not to pinch the harness [C] between the FCU [B] and the interface board [A] when connecting it.
7. Remove the 2 hexagonal screws [G] from the DIU [D].



A815I504.WMF

8. Insert the FCU and DIU assembly [A] into the expansion box; connect the harness [B] and slide the assembly into bottom of the box.
9. Open the RS232C connector window [C] on the bracket [D], then install the bracket [D] onto the expansion box.
10. Tighten the 2 hexagonal screws [E] as shown.
11. Replace the left-side and rear covers. (4 screws each).
12. Plug in the machine and turn on the main switch.
13. Enter the service mode, and set bit 3 of system switch 1C to "1", then turn off and on the main switch.
14. Print the system parameter list. If "TR29" appears in the "option" section of the system parameter list, go head. Otherwise, check the cable connection.
15. Follow the instructions in the Operator's manual to connect the machine to a host computer and how to set up the machine and the computer, if required.  
**NOTE:** 1) A "Straight – through" shielded serial cable is required, but it is not enclosed.  
2) One end of the serial cable must have DB25 male connection to connect to the DIU.

## 4. SERVICE TABLES AND PROCEDURES

### 4.1 SERVICE MODE FUNCTIONS

#### 4.1.1 PC PROTOCOL DUMP LIST

Use this function to check the AT commands and responses that are exchanged between a host computer and the machine.

Refer to section 2.1 for details of the supported AT commands.

1. Enter service mode, and select 05 "Protocol Dump".
2. Select 3 "PC Protocol List", then press Start.

### 4.2 BIT SWICTHES

System Switch 1C		
No	FUNCTION	COMMENTS
0	PC-DIU communication record on the Journal 0: Disabled 1: Enabled	1: Communications between the DIU and a host PC are logged on the Journal. Also, the Data-in LED turns on while data is coming in and going out to the PC. Be sure to reset this bit to "0" after a test.
1 to 2	Not used	Do not change the settings.
3	PC-Fax Expander option 0: Not installed 1: Installed	Change this bit to 1 when installing the PC-Fax Expander. (Europe model only)
4 to 7	Not used	Do not change the settings.

### 4.3 USER PARAMETERS

User Switch 20		
No	FUNCTION	COMMENTS
0	Class 2 transmission 0: Direct tx 1: Memory tx	0: Image data is sent directly from a host during communication. 1: Image data is sent to the fax machine's SAF memory before starting a fax communication, then it is sent by the fax machine.
1	Addition of fax TTI in class 2 memory transmission 0: Disabled 1: Enabled	1: The machine adds its TTI to all the messages sent through SAF memory. This setting is effective only when bit 0 is set to "1".

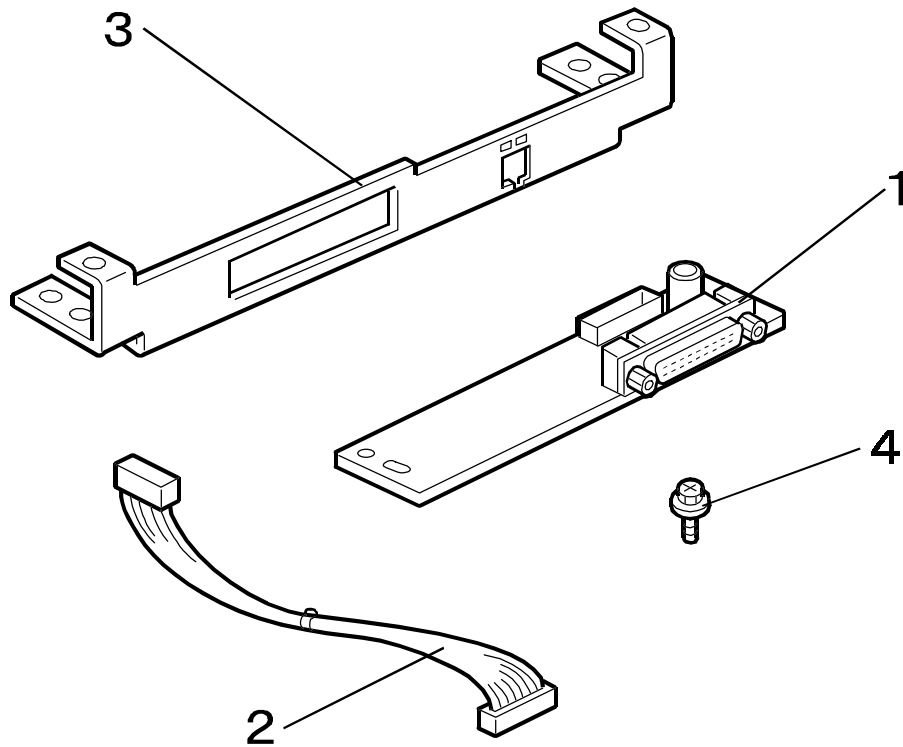
<b>User Switch 20</b>		
<b>No</b>	<b>FUNCTION</b>	<b>COMMENTS</b>
<b>2</b>	Message received to: <b>0:</b> Fax <b>1:</b> PC	<b>0:</b> Received messages are printed at the machine. <b>1:</b> Received messages are transferred to the host PC.
<b>3</b>	Class 2 reception <b>0:</b> Direct rx <b>1:</b> Memory rx	<b>0:</b> Received messages are transferred to the host PC directly during fax communication. <b>1:</b> Received messages are stored in the SAF memory during reception. Then they are transferred to the host PC after reception has been completed.
<b>4</b>	Message printout in class 2 memory rx <b>0:</b> Disabled <b>1:</b> Enabled	<b>1:</b> A message received into memory is printed after it has been transferred to the host PC.
<b>5</b>	Checkered mark on printouts from a PC <b>0:</b> Disabled <b>1:</b> Enabled	<b>1:</b> The machine prints a checkered mark on a document printed through the DIU.
<b>6 to 7</b>	Not used	Do not change the settings.

<b>User Switch 21</b>		
<b>No</b>	<b>FUNCTION</b>	<b>COMMENTS</b>
<b>0 to 3</b>	Scan density for the "Light" setting in scanner mode. <b>Bit3 Bit2 Bit1 Bit0 Setting</b> <b>0 0 0 1</b> Level1 <b>0 0 1 0</b> Level2	All the other settings are the same as Level1.
<b>4 to 7</b>	Scan density for the "Dark" setting in scanner mode. <b>Bit7 Bit6 Bit5 Bit4 Setting</b> <b>0 0 0 1</b> Level5 <b>0 0 1 0</b> Level6	All the other settings are the same as Level5.

---

## 5. PARTS LIST

Index	Part Number	Name	Q'ty/Unit
1	A2335195	PCB - DIU	1
2	A2335282	Harness – FCU-DIU	1
3	A8165801	Bracket	1
4	04513006B	Screw – M3 x 6	4



Model: NAD 30S/30/40		Date: 30-Sep-98	No.: 16
Subject: Software Release Information		Prepared by: M.Mimura	
From: QAC Field Information 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 (      )		

The new version of the BICU firmware has been implemented on the production machines.

## 1. Software Version: 13.6.3.1

Affected Program Numbers:

Program Number	Languages Contained
A2325113H	US English (US), French (F), Spanish (E) - NA
A2325114H	UK English (GB), French (F), German (D) - EU
A2325115E	UK English (GB), Traditional Chinese (CHI) - Asia
A2325116B	UK English (GB), Simplified Chinese (HK) - China
A2325117B	UK English (GB), Traditional Chinese (CHI) - Taiwan
A2325152A	UK English (GB), Spanish (E), Italian (I)
A2325153A	UK English (GB), French (F), Dutch (NL)
A2325154A	UK English (GB), Swedish (S), Norwegian (N)
A2325155A	UK English (GB), Danish (DK), Finnish (FIN)
A2325156A	UK English (GB), Spanish (E), Portuguese (P)
A2325157A	UK English (GB), Polish (PL), Hungarian (H)
A2325158A	UK English (GB), Polish (PL), Czech (CZ)

## Corrections

No.	Title	Details
1	SC542	1. In the power save modes, if the customer has left the front cover open for a long time, SC542 may appear. 2. If the front cover is kept open for more than 125 seconds when adjusting SP1-105-01, SC542 occurs.

Note: This fixes the bug created with the version 13.6.1.

## Production Cut-in Month

RAI (China): June '98 Production

RPL (UK): From first production

Model: NAD 30S/30/40

Date: 30-Sep-98

No.: 16

**2. Software Version: 13.6.4.1**

Affected Program Numbers:

Program Number	Languages Contained
A2325113J	US English (US), French (F), Spanish (E) – NA
A2325114J	UK English (GB), French (F), German (D) – EU
A2325115F	UK English (GB), Traditional Chinese (CHI) – Asia
A2325116C	UK English (GB), Simplified Chinese (HK) – China
A2325117C	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152B	UK English (GB), Spanish (E), Italian (I)
A2325153B	UK English (GB), French (F), Dutch (NL)
A2325154B	UK English (GB), Swedish (S), Norwegian (N)
A2325155B	UK English (GB), Danish (DK), Finnish (FIN)
A2325156B	UK English (GB), Spanish (E), Portuguese (P)
A2325157B	UK English (GB), Polish (PL), Hungarian (H)
A2325158B	UK English (GB), Polish (PL), Czech (CZ)

**Corrections**

No,	Title	Details
1	Jam Detection Malfunction	If there are A3 / 11"x17" jams in the duplex unit, the jam location indicator "C" may also light even though there is no paper there. This program error has been fixed.
2.	Fusing Control	Current When a non-feed jam occurs, even if other paper going into the copier jams at the same time, the fusing lamp will not be turned off but will operate under the normal temperature control until the front cover is opened. New The fusing lamp will be turned off whenever paper jams occur in the copier.

**Production Cut-in Month**

RAI (China): August '98 Production

RPL (UK): August '98 production

Model: NAD 30S/30/40

Date: 30-Sep-98

No.: 16

### 3. Software Version: 13.6.8

Affected Program Numbers:

Program Number	Languages Contained
A2325113K	US English (US), French (F), Spanish (E) – NA
A2325114K	UK English (GB), French (F), German (D) – EU
A2325115G	UK English (GB), Traditional Chinese (CHI) – Asia

Program Number	Languages Contained
A2325116D	UK English (GB), Simplified Chinese (HK) – China
A2325117D	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152C	UK English (GB), Spanish (E), Italian (I)
A2325153C	UK English (GB), French (F), Dutch (NL)
A2325154C	UK English (GB), Swedish (S), Norwegian (N)
A2325155C	UK English (GB), Danish (DK), Finnish (FIN)
A2325156C	UK English (GB), Spanish (E), Portuguese (P)
A2325157C	UK English (GB), Polish (PL), Hungarian (H)
A2325158C	UK English (GB), Polish (PL), Czech (CZ)

### Specification Changes

No.	Title	Details	Applicable to
1	Default Setting – Duplex Priority	Default mode has been changed from “simplex to duplex” to “simplex to simplex”	All except for NA

### Corrections

No.	Title	Details	Applicable to
1	SMC Print	SP5001 to SP5401 can now be printed.	All
2	Memory All Clear	Memory All Clear (SP5801) now functions in the SC condition.	All
3	Jam Recovery	Pressing the Start key now resumes copying when a copier jam occurred after the last original has been fed in. (This occurs when the copy number is two or higher only on machines without hard disks.)	All

### Production Cut-in Month

RAI (China): August '98 Production

RPL (UK): August '98 Production

Model: NAD 30S/30/40		Date: 15-Oct-98	No.: 17
Subject: SC322/SC326		Prepared by: S. Hizen	
From: GTS and S Field Information Dept.			
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

SC322/SC326

## CAUSE

The synchronization detector on the laser unit cannot properly receive the laser beam.

## SOLUTION

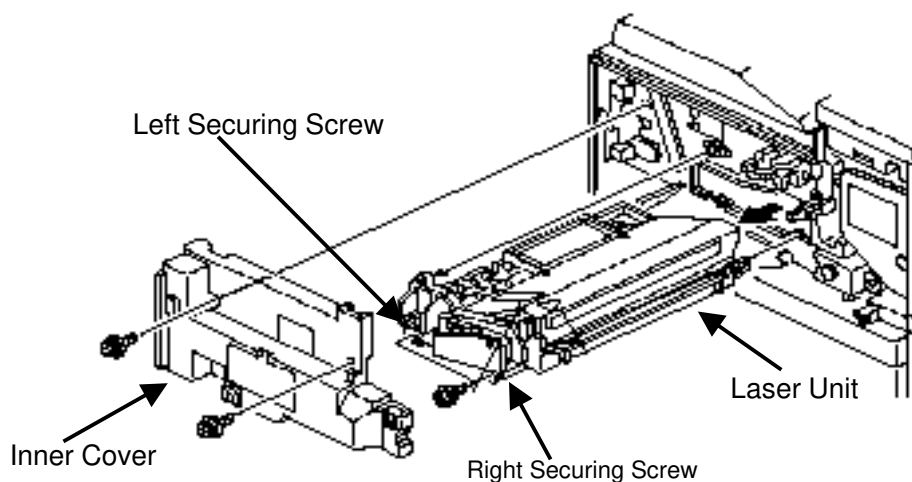
Twist the laser unit using the following procedure.

Note:

This is a temporary solution in the field as the SC322/SC326 problem is still under investigation.

Procedure

1. Open the front cover and remove the inner cover. (See the illustration)



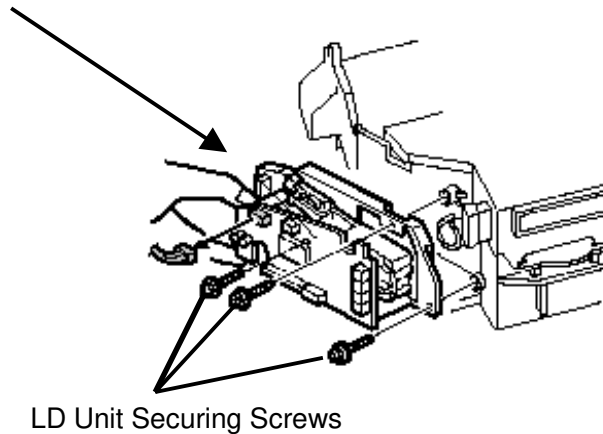
Model: NAD 30S/30/40

Date: 15-Oct-98

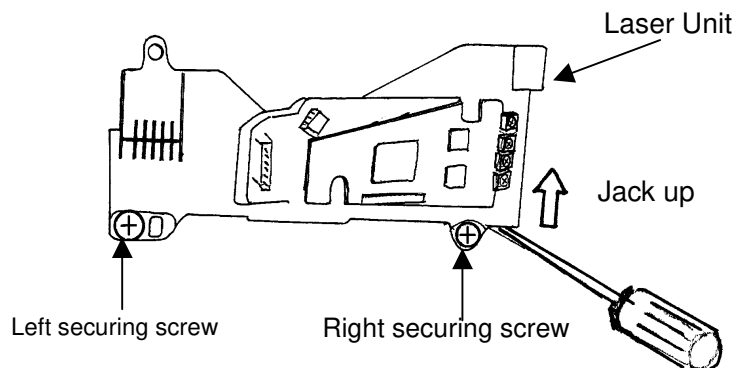
No.: 17

2. Make sure the three laser diode unit securing screws are not loose. If the screws are loose, tighten the screws and check to see if the SC322/SC326 has been solved. If the SC Code still appears, follow the steps below to twist the laser unit.

Laser Diode Unit



3. Loosen the two securing screws for the laser unit (see the illustration below).
4. Tighten the right securing screw while jacking up the right side of the laser unit with a screwdriver.



5. Tighten the left securing screw and put the inner cover back on.
6. If SC322/SC326 is still indicated after the above action, replace the laser unit with a brand new one.

**Note:**

The laser unit repair procedure above is not necessary when a brand new laser unit is installed.

Model: NAD 30S/30/40		Date: 31-Oct-98	No.: 18
Subject: Service manual correction		Prepared by: S. Tomoe	
From: GTS and S Field Information 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 type="checkbox"/> Other (Manual correction)		

The following should be corrected. Please correct your service manual.

## 1. SP MODE TABLE, p. 4-49

Incorrect

Mode No.			Function	Setting
Class 1 and 2	Class 3			
7-808		Resets Counters (except for he total counter)	Resets the following counters: Press "1" to reset. <ul style="list-style-type: none"> <li>All counters of SP7-003</li> <li>All counters of SP7-006</li> <li>All counters which are listed on the counter list (UP1-19-2)</li> </ul>	1: Start

Correct

Mode No.			Function	Setting
Class 1 and 2	Class 3			
7-808		Resets Counters	<b><i>Resets all counters except for the following counters:</i></b> Press "1" to reset. <ul style="list-style-type: none"> <li>All counters of SP7-003</li> <li>All counters of SP7-006</li> <li>All counters which are listed on the counter list (UP1-19-2)</li> </ul>	1: Start

Model: NAD 30S/30/40

Date: 31-Oct-98

No.: 18

**2. MACHINE CONFIGURATIONS, p.1-7**

Incorrect

Version	Item	Machine Code	No.
Fax	SAF Memory – HDD (Option)	A818-10	
	Fax Feature Expander (Option)	A818-11	

Correct

Version	Item	Machine Code	No.
Fax	SAF Memory – HDD (Option)	<b><i>A818-11</i></b>	
	Fax Feature Expander (Option)	<b><i>A818-10</i></b>	

Reissued: 10-Nov-98

## RTB Correction

The items in bold italics have been corrected or added.

Model: NAD 30S/30/40		Date: 31-Aug-98	No: 13
Subject: Premature Toner Overflow Detection		Prepared by: M.Mimura	
From: GTSS Field Information 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

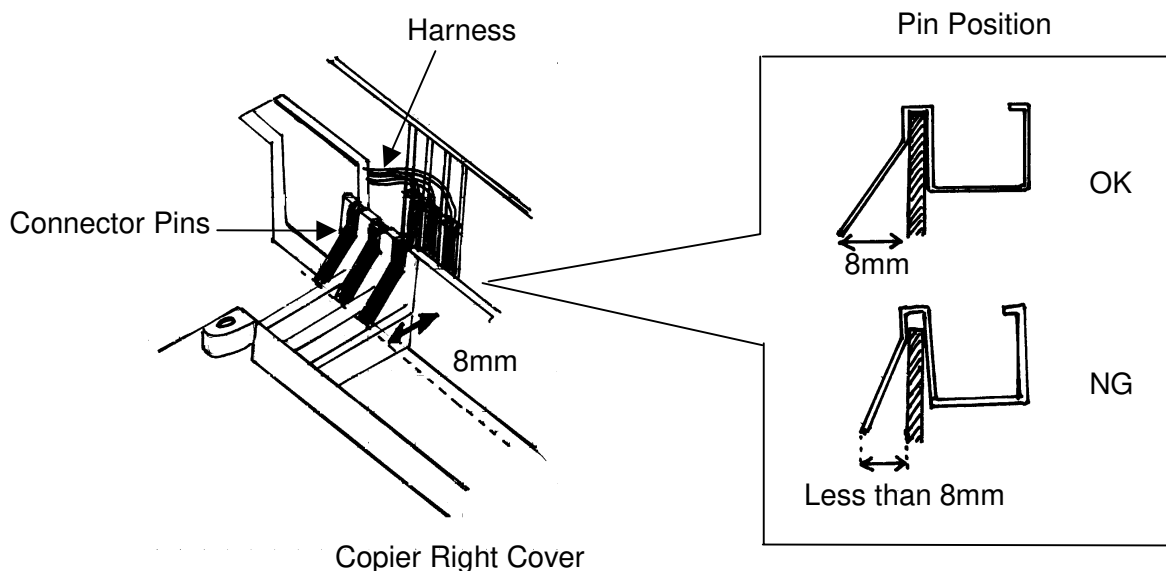
Toner overflow is detected prematurely.

## CAUSE 1:

*The electrical contact between the metal plates on the transfer belt unit and the connector pins on the copier right cover is poor because the pins are bent or out of position.*

## SOLUTION 1:

*Set the pins in the correct position and bend the pin so that the distance between the pin edge and the cover rib is 8mm.*



Reissued: 10-Nov-98

Model: NAD 30S/30/40

Date: 31-Aug-98

No: 13

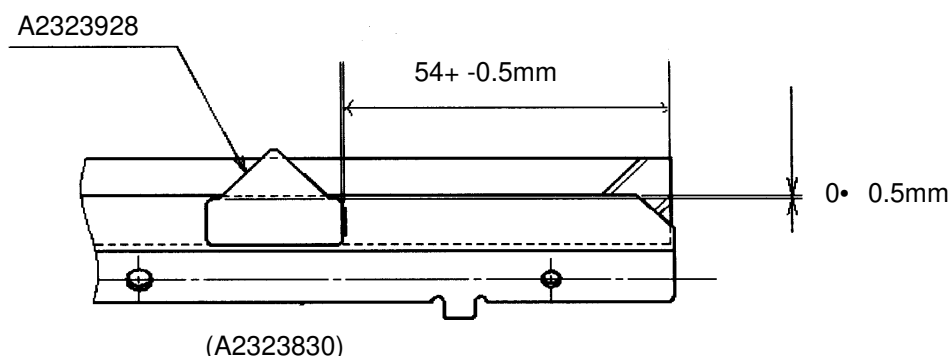
**CAUSE 2:**

When heavy copy jobs are made consecutively, used toner scraped off by the transfer belt cleaning blade may scatter and pile up on the toner overflow sensor. In the worst case, this leads to an overflow detection malfunction.

**SOLUTION 2:**

1. Install the Toner Guide Mylar (#A2323928) on the transfer belt cleaning blade.

The Toner Guide Mylar will prevent the used toner from passing the toner overflow sensor.



2. Replace the old type blade with the new type blade (#A2323830) which has the Toner Guide Mylar.

**Factory Action**

The new type cleaning blade has been implemented from the following production runs:

RPL: From July '98 production

RAI: From August '98 production

(See the MB to be issued later for the cut-in serial numbers.)

Model: NAD 30S/30/40		Date: 10-Nov-98	No.: 19
Subject: Pressure Roller Damage by Stripper		Prepared by: S. Hizen	
From: GTSS Field Information 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 fusing pressure roller is damaged by the pressure roller stripper.

## Cause:

When the copies jam in the fusing section, are not removed completely and the customer restarts copy job, the copies jammed in the fusing section bunch up and press the pressure roller stripper. This causes the stripper edges to dig into the pressure roller.

## Countermeasure:

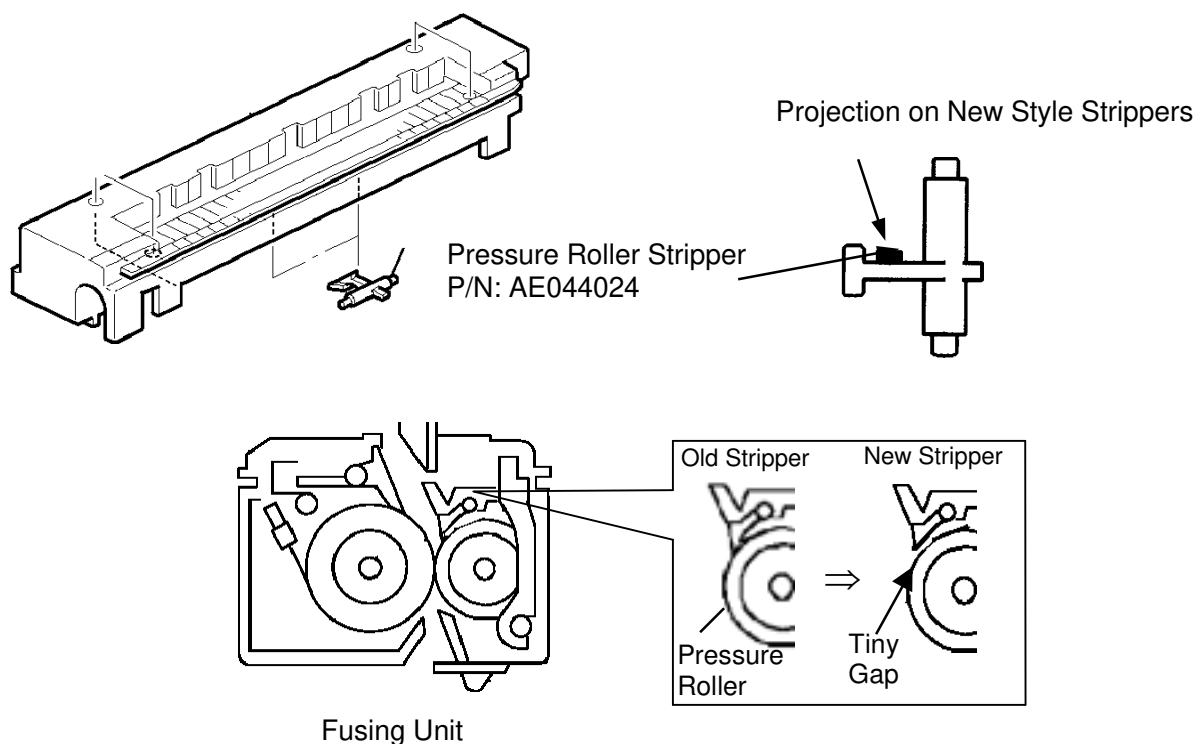
The pressure roller stripper has been modified by changing the lead edge angle. This modification is to make a tiny gap between the stripper edge and the roller surface.

## Note:

The part number has not been changed. The new style stripper has a projection to make a visual difference from the old style stripper. The starting serial number of the machines with the new style stripper will be added as soon as it is available.

## Solution:

Replace the strippers to the new style ones and ask customer to check the fusing section by opening the right side cover when a paper misfeed occurs.



Model: NAD 30S/30/40		Date: 15-Nov-98	No.: 20
Subject: Noise from Development Unit		Prepared by: S.Hizen	
From: GTSS Field Information 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

Noise from the development unit in repeat copy mode (more than 40 sheets).

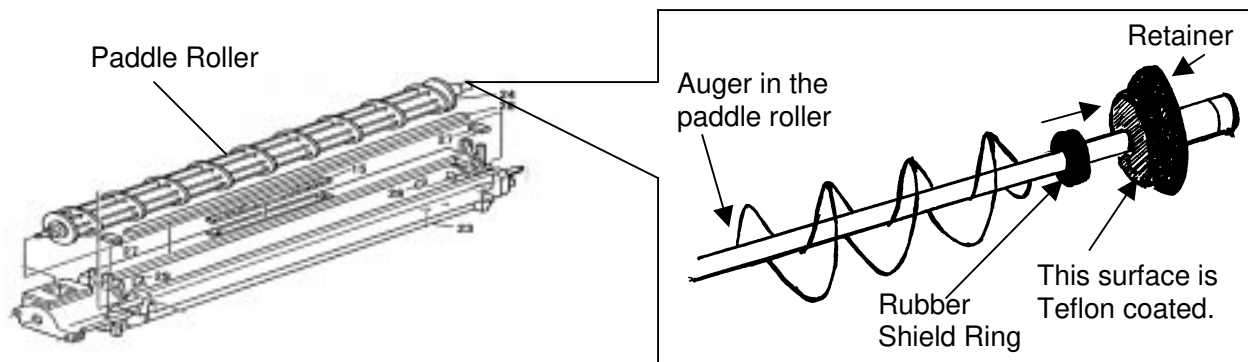
## Note

This noise from the development unit may disappear during the copy run.

Similar kinds of noise may occur from the drive section so please lubricate the gears and the bushings if this occurs.

## CAUSE

The temperature of the rubber shield ring in the paddle roller goes up in a repeat copy mode of more than 40 and friction occurs between the rubber ring shield and the retainer. This friction results in noise from the retainer and the ring.



## SOLUTION

The surface of the retainer in the paddle roller (see the illustration above) has been Teflon coated to reduce the friction with the rubber shield ring when the temperature of the ring increases.

## Action in the field

The development unit should be replaced with the new type if the noise from the development unit does not disappear. The part number for the new development unit is A232-7460 . The start serial number of the machines with the new development unit will be announced by an MB.

Model: NAD 30S/30/40		Date: 30-Nov-98	No.: 21
Subject: Hot Roller Scratched by Thermistor		Prepared by: S.Hizen	
From: GTSS Field Information Dept.			
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

The hot roller is scratched by hard toner stuck to the thermistor and a black line appears on the copy if the scratch is deep.

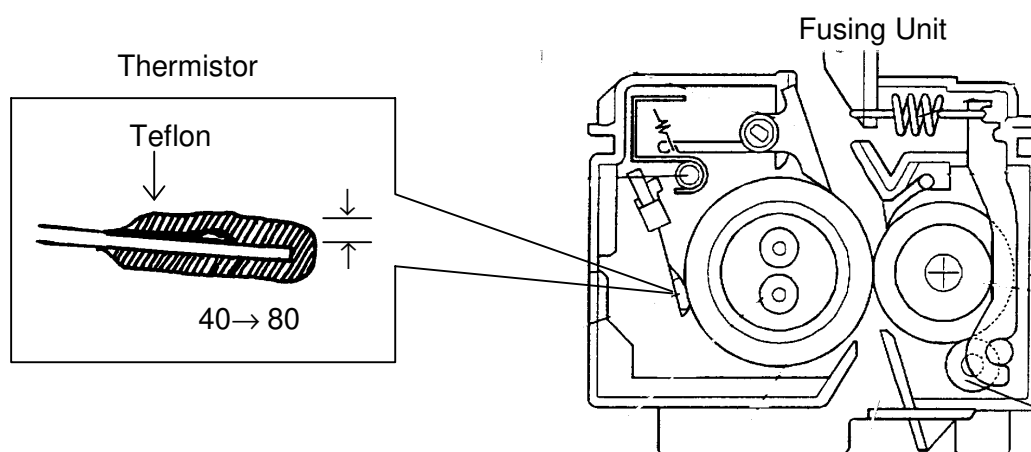
## CAUSE

A mixture of toner and paper dust is stuck on the surface of the thermistor. This mixture hardens as the fusing temperature goes up and down. Therefore, the amount and the hardness of the solid stuck on the thermistor are affected by the type of paper and operating conditions. Please note that these conditions may only exist on a limited number of rollers.

## SOLUTION

Replace the thermistor with one of the new type.

The thickness of the Teflon cover on the new type of thermistor has been increased to reduce the pressure on the hot roller in the event that a toner/paper mixture is stuck to it.



The part number of the new type of thermistor and the starting serial number will be announced as soon as they are available.

Reissued: 27-Nov-00

Model: NAD 30S/30/40	Date: 15-Dec-98	No.: RA230022a
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## RTB Correction

The items in bold italics have been corrected or added.

Subject: Bend the Upper Fusing Entrance Guide		Prepared by: E. Fukuyama	
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 (      )		

This bulletin has been reissued to include the information below in bold italics, which was missing from the original RTB.

## SYMPTOM

The fusing cleaning roller drops when the upper fusing entrance guide is removed.

## CAUSE

The upper fusing entrance guide is deformed by heat, and the hook section on the roller bushing expands so the roller bushing is no longer secured.

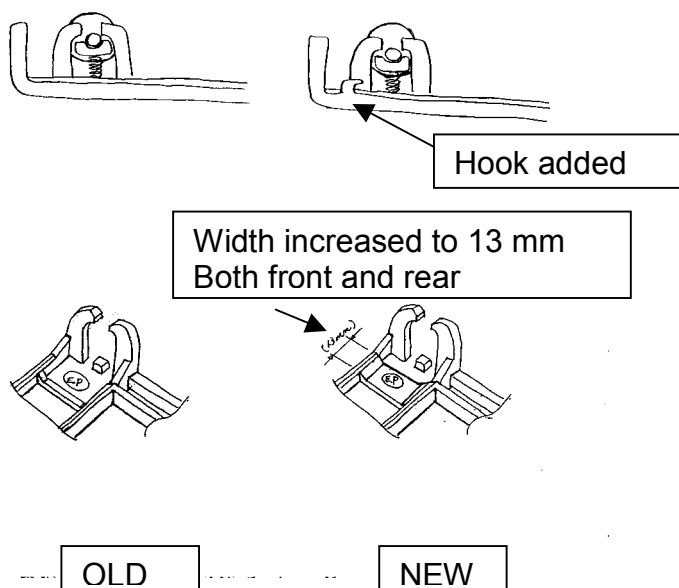
## SOLUTION

The following modifications were implemented to prevent deformation caused by heat to the upper fusing entrance guide:

1. A hook has been added ***to the entrance guide*** to prevent deformation.
2. The width of the plate near the point where the fusing cleaning roller is attached has been increased to 13 mm.
3. ***A 4 mm x 3 mm cutout has been added to the fusing unit frame (A2324051) to accommodate the hook added to the entrance guide.***

**NOTE: No part numbers have changed.**

**NOTE: These parts were applied to the production line from April 1998. Therefore, when replacing either of these parts in machines produced before then, be sure to replace both together as a set.**



Reissued: 27-Nov-00

Model: NAD 30S/30/40

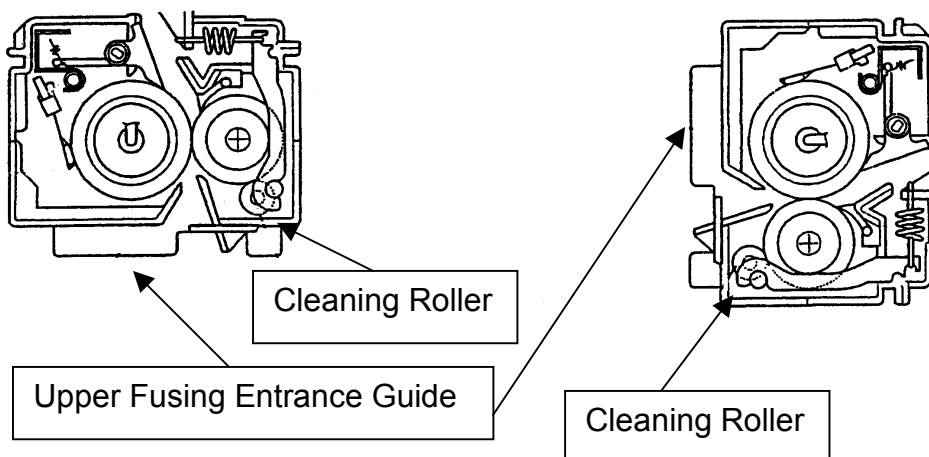
Date: 15-Dec-98

No.: RA230022a

## Action in the field

Even if the upper entrance guide is bent, the cleaning roller will still properly clean the pressure roller. However, if the upper entrance guide is removed/installed with the fusing unit positioned so that the upper entrance guide is on top, the cleaning roller may fall off and the hot roller and pressure roller may be scratched.

When installing/removing the upper fusing entrance guide, please make sure the fusing unit is positioned as shown below.



When installed on the machine

When installing/removing the cover

Reissued: 27-Nov-00

Model: NAD 30S/30/40	Date: 15-Dec-98	No.: RA230022a
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Implemented from the May 1998 production run.

MODEL NAME	V/Hz	DESTINATION	RAI PRODUCTION	
			CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B88850001
Ricoh Aficio340	115/60	USA, Canada	A230-17	A768885096
Ricoh Aficio340	115/60	Taiwan	A230-19	A7688860195
Gestetner 3235S nashuatec D435S Rex-Rotary 2835S	220/50	Europe, etc.	A230-22	AQ18860001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18680001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	A7688860001
Ricoh Aficio340	220/50,60	Asia	A230-39	A7688860105
Lanier 5135	110/60	USA, Canada	A230-55	Implemented from the June 1998 production run.
Lanier 5134	220/50	Europe, Australia	A230-65	Implemented from the June 1998 production run.
Ricoh Aficio340	220/50	China	A230-69	A768850181
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	1B88850001
Ricoh Aficio350	115/60	USA, Canada	A231-17	A7698850855
Ricoh Aficio350	110/60	Taiwan	A231-19	Implemented from the June 1998 production run.
Gestetner 3235 nashuatec D435 Rex Rotary 2835	220/50	Europe, etc.	A231-22	AQ38860001
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q28680001
Ricoh Aficio350	220/50	Europe, etc.	A231-27	Implemented from the June 1998 production run.
Ricoh Aficio350	220/50,60	Asia	A231-39	A7698860651
Lanier 5235	115/60	USA, Canada	A231-55	L5238850001
Lanier 5235	220/50	Europe, Australia	A231-65	L5238850026
Ricoh Aficio350	220/50	China	A231-69	A7698860656
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B18850001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A7708850612
Ricoh Aficio450	110/60	Taiwan	A232-19	A7708860742
Gestetner 3245 nashuatec D445 Rex-Rotary 2845	220/50	Europe, etc.	A232-22	AQ58860001
Infotec 4451 MF	220/50	Europe, Australia	A232-26	3Q38680001
Ricoh Aficio450	220/50	Europe, etc.	A232-27	A7708860752
Ricoh Aficio450	220/50,60	Asia	A232-39	A7708860651
Lanier 5245	115/60	USA, Canada	A232-55	L5278850001
Lanier 5245	220/50	Europe, Australia	A232-65	L5248850026
Ricoh Aficio450	220/50	China	A232-69	A7708850961

Model: NAD 30S/30/40

Date: 15-Jul-98

No.: 12b

## RTB Correction

The items in bold italics have been changed or added.

Subject: Key Logging Data Information		Prepared by: S. Tomoe	
From: GTSS Field Information 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 (      )		

This informs the meaning of the Key Logging Data which is listed in the logging data sheet.

### 1. Function

***The machine registers the history of which keys on the operation panel have been pressed. Also, the key logging data can be printed on the logging data sheet (it is one of the SMC print sheets).***

### 2. Key Logging Data Table

Code	Key	Code	Key	Code	Key	Code	Key
00		10	Clear	20	Zoom	30	Quick Dial 01
01	Ten key – 1	11	Speed Dial	21	Enhanced Image	31	Quick Dial 02
02	Ten key – 2	12	On Hook	22	Sort	32	Quick Dial 03
03	Ten key – 3	13	Pause	23	Duplex	33	Quick Dial 04
04	Ten key – 4	14	Tone	24	Menu	34	Quick Dial 05
05	Ten key – 5	15	⇐	25	Shortcut 1	35	Quick Dial 06
06	Ten key – 6	16	⇒	26	Shortcut 2	36	Quick Dial 07
07	Ten key – 7	17	LCD F1	27	Shortcut 3	37	Quick Dial 08
08	Ten key – 8	18	LCD F2	28	Shortcut 4	38	Quick Dial 09
09	Ten key – 9	19	LCD F3	29	Stamp	39	Quick Dial 10
0A	Ten key – 0	1A	LCD F4	2A	Resolution	3A	Quick Dial 11
0B	★/■	1B	Original Type	2B	Tx Mode	3B	Quick Dial 12
0C	#	1C	Lighter	2C	Fax F1 <sup>note1</sup>	3C	Quick Dial 13
0D	Start	1D	Darker	2D	Fax F2 <sup>note1</sup>	3D	Quick Dial 14
0E	Stop	1E	AID	2E	Fax F3 <sup>note1</sup>	3E	Quick Dial 15
0F	Program	1F	Auto R/E	2F	Fax F4 <sup>note1</sup>	3F	Quick Dial 16

Model: NAD 30S/30/40

Date: 15-Jul-98

No.: 12b

Code	Key	Code	Key	Code	Key	Code	Key
40	Quick Dial 17	50	Quick Dial 33	60	Quick Dial 49	A0	Clear Modes
41	Quick Dial 18	51	Quick Dial 34	61	Quick Dial 50	A1	User Tools
42	Quick Dial 19	52	Quick Dial 35	62	Quick Dial 51	A2	Copy
43	Quick Dial 20	53	Quick Dial 36	63	Quick Dial 52	A3	Fax
44	Quick Dial 21	54	Quick Dial 37	64	Quick Dial 53	A4	Printer
45	Quick Dial 22	55	Quick Dial 38	65	Quick Dial 54	A5	Interrupt
46	Quick Dial 23	56	Quick Dial 39	66	Quick Dial 55	A6	Operation Sw
47	Quick Dial 24	57	Quick Dial 40	67	Quick Dial 56	A7	User Code
48	Quick Dial 25	58	Quick Dial 41	68	<del>Quick Dial 57</del> N/A	A8	Energy Saver
49	Quick Dial 26	59	Quick Dial 42	69	<del>Quick Dial 58</del> N/A	A9	SP mode (service)
4A	Quick Dial 27	5A	Quick Dial 43	6A	<del>Quick Dial 59</del> N/A	AA	SP mode (factory)
4B	Quick Dial 28	5B	Quick Dial 44	6B	<del>Quick Dial 60</del> N/A	AB	SP mode (sales)
4C	Quick Dial 29	5C	Quick Dial 45	6C	<del>Quick Dial 61</del> N/A	AC	RSS manual call
4D	Quick Dial 30	5D	Quick Dial 46	6D	<del>Quick Dial 62</del> N/A	AD	PM alarm
4E	Quick Dial 31	5E	Quick Dial 47	6E	<del>Quick Dial 63</del> N/A	AE	N/A
4F	Quick Dial 32	5F	Quick Dial 48	6F	<del>Quick Dial 64</del> N/A	AF	N/A
						B0	Fax Reset
						B1	Fax F1 <sup>note2</sup>
						B2	Fax F2 <sup>note2</sup>
						B3	Fax F3 <sup>note2</sup>
						B4	Fax F4 <sup>note2</sup>
						B5	Fax F5 <sup>note2</sup>

- Note:**
- These codes will be used when pressing these keys in fax mode.
  - These codes will be used when pressing these keys in any application mode (copy, fax, and printer).

### 3. How to use the key logging data

When a problem occurs because of the machine operation, the technician can check how the customer operated the machine (which keys have been pressed).

### 4. How to check the data

The machine registers new data at the end of the bottom line of the data list.

Example operation procedure (5 sets of copies in Text/Photo mode), followed by SMC data sheet printing

No.	Operation	Keys Used	Logged Data
1	Select Copy mode	copy key	A2
2	Select Text/Photo mode	original type key	1B
3	Input the number of sets	5	5
4	Make copies	Start key	0D
5	Enter the SP mode	Clear/Mode+1+0+7 +Stop	A0+01+0A+07+0E +10+A9
6	Select copy SP mode	1	01
7	Enter SP5990	5+9+9+0+#	05+09+09+0A+0C
8	Select Logging data print-out	Next key x 3 times	F2
9	Print the logging data sheet	1	01

The logging data for the above example will be printed as follows. Data from A2 to 01 (large characters) show the above operations.

<No.>	<Name>	<Value>						
Key Logging		0A	0A	0A	01	0A	03	0E 10
		0E	10	0E	10	12	0A	0A 03
		05	07	04	02	05	05	08 0A
		0A	0A	01	12	0A	0A	03 05
		04	0A	0A	0A	01	12	0A 0A
		03	05	07	04	02	05	05 03
		08	0D	A6	A2	A2	A2	A0 01
		0A	07	0E	10	A9	01	05 0C
		17	0C	18	01	18	18	01 1A
		1A	1A	1A	A0	01	0A	07 0E
		10	A9	01	17	17	17	0C 17
		0C	01	1A	1A	1A	1A	1A 1A
		A0	A0	A2	A2	A6	A6	A2 05
		22	A0	A6	A2	1B	05	0D A0
		01	0A	07	0E	10	A9	01 05
		09	09	0A	0C	18	18	18 01

Model: NAD 30S/30/40		Date: 15-Jan-99	No.: 23
Subject: Service Manual Correction		Prepared by: S. Tomoe	
From: GTSS Field Information 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 (      )		

The following information should be added to the service manual for the NAD printer option.

## 4.6 SPECIAL TOOLS

Part Number	Description	Q'ty
A8545120	ROM SIMM	1
G0219350	Loop Back Connector	1

Model: NAD 30S/30/40		Date: 15-Jan-99	No.: 24
Subject: Software Release Information		Prepared by: E.Fukuyama	
From: GTSS Field Information Depot			
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 (      )		

The new version of the BICU firmware has been implemented on the production machines.

## Software Version: 13.6.11

### Affected Program Numbers

Program Number	Languages Contained
A2325113M	US English (US), French (F), Spanish (E) - NA
A2325114L	UK English (GB), French (F), German (D) - EU
A2325115H	UK English (GB), Traditional Chinese (CHI) - Asia
A2325116E	UK English (GB), Simplified Chinese (HK) - China
A2325117E	UK English (GB), Traditional Chinese (CHI) - Taiwan
A2325152D	UK English (GB), Spanish (E), Italian (I)
A2325153D	UK English (GB), French (F), Dutch (NL)
A2325154D	UK English (GB), Swedish (S), Norwegian (N)
A2325155D	UK English (GB), Danish (DK), Finnish (FIN)
A2325156D	UK English (GB), Spanish (E), Portuguese (P)
A2325157D	UK English (GB), Polish (PL), Hungarian (H)
A2325158D	UK English (GB), Polish (PL), Czech (CZ)

### Corrections

No	Title	Details of Errors
1	Printing of incoming fax messages after resetting an SC related to fusing	Even after the main switch is turned off and on to reset an SC related to fusing, incoming fax messages cannot be printed out.
2.	Printing of incoming fax messages after resetting an SC	Even after the Power key is turned off and on to reset an SC, incoming fax messages cannot be printed out.
3	SCs related to fusing	Sometimes, an SC related to fusing is reset when the Power key is turned off and on just after the main switch is turned off and on. However, the SC will be detected again.
4	Interruption of detection at the registration sensor	Sometimes, the registration roller does not stop turning if the leading edge of the copy is detected twice at the registration sensor

Note: This fixes the bug created with the version 13.6.9

Model: NAD 30S/30/40	Date: 15-Jan-99	No.: 24
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**Production Cut-in Month**

RAI (China): August '98 Production

RPL (UK): August '98 production

Model: NAD 30S/30/40		Date: 15-Jan-99	No.: 25
Subject: Software Release Information		Prepared by: E.Fukuyama	
From: GTSS Field Information Depot			
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 (      )		

The new version of the BICU firmware has been modified.

## Software Version: 13.6.19

Note: Please do not use this version because fax reception may not function.

Affected Program Numbers:

Program Number	Contained Languages
A2325113N	US English (US), French (F), Spanish (E) - NA
A2325114M	UK English (GB), French (F), German (D) - EU
A2325115J	UK English (GB), Traditional Chinese (CHI) - Asia
A2325116F	UK English (GB), Simplified Chinese (HK) - China
A2325117F	UK English (GB), Traditional Chinese (CHI) - Taiwan
A2325152E	UK English (GB), Spanish (E), Italian (I)
A2325153E	UK English (GB), French (F), Dutch (NL)
A2325154E	UK English (GB), Swedish (S), Norwegian (N)
A2325155E	UK English (GB), Danish (DK), Finnish (FIN)
A2325156E	UK English (GB), Spanish (E), Portuguese (P)
A2325157E	UK English (GB), Polish (PL), Hungarian (H)
A2325158E	UK English (GB), Polish (PL), Czech (CZ)

## Corrections

No,	Title	Details of Errors
1	Printing with 300 DPI	The printed image has been improved in smoothing mode and the printing speed has been increased in electrical sort mode when printing at 300 DPI.
2.	SC321 when printing	SC 321 may be displayed because the image is transferred from the main frame to the printer controller at the wrong time.
3	Error in a big printing job	An error may occur during printing when 250 sheets or more are printed as a job with the SR720.
4	ADF in SP4303	The ADF cannot function when SP4303 is set to 1.
5	Original set LED	The LED for the original set sensor lights when a fax message is coming in the night mode or when the handset is used.
6	Paper end indicator lights erratically	If the hard disk is not installed, the Paper End indicator lights erratically in Enhanced Image mode.

Note: This fixes the bug created with the version 13.6.11

Model: NAD 30S/30/40

Date: 15-Jan-99

No.: 25

**Production Cut-in Month**

Not used in any machine.

Model: NAD 30S/30/40		Date: 15-Jan-99	No.: 26
Subject: Software Release Information		Prepared by: E.Fukuyama	
From: GTSS Field Information Depot			
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 (      )		

The new version of the BICU firmware has been implemented on the production machines.

## Software Version: 13.6.20

Affected Program Numbers:

Program Number	Contained Languages
A2325113P	US English (US), French (F), Spanish (E) - NA
A2325114N	UK English (GB), French (F), German (D) - EU
A2325115K	UK English (GB), Traditional Chinese (CHI) - Asia
A2325116G	UK English (GB), Simplified Chinese (HK) - China
A2325117G	UK English (GB), Traditional Chinese (CHI) - Taiwan
A2325152F	UK English (GB), Spanish (E), Italian (I)
A2325153F	UK English (GB), French (F), Dutch (NL)
A2325154F	UK English (GB), Swedish (S), Norwegian (N)
A2325155F	UK English (GB), Danish (DK), Finnish (FIN)
A2325156F	UK English (GB), Spanish (E), Portuguese (P)
A2325157F	UK English (GB), Polish (PL), Hungarian (H)
A2325158F	UK English (GB), Polish (PL), Czech (CZ)

## Corrections

No,	Title	Details of Errors
1	Printing in night mode	Incoming fax messages cannot be printed out in the night mode.

Note: This fixes the bug created with version 13.6.19

## Production Cut-in Month

RAI (China): January '99 Production

RPL (UK): January '99 production

Model: NAD 30S/30/40		Date: 20-Jan-99	No.: 27
Subject: Controller Board Installation		Prepared by: E. Fukuyama	
From: GTSS Field Information 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 (      )		

Both the BCU and FCU Boards should be upgraded to the following or a higher version when installing a new controller board. Otherwise, the controller board will not operate properly.

BCU Board : Version 13.6.20

A2325113P (NA)	A2325115K (Asia)	A2326116G (China),
A2325114N (EU1)	A2325152F (EU2)	A2325153F (EU3)
A2325154F (EU4)	A2325155F (EU5)	A2325156F (EU6)
A2325157F (EU7)	A2325158F (EU8)	

FCU Board : Version 7.02

A2335581C (NA)	A2335597B (China)	A2335584B (Taiwan)
A2335581E (EU1)	A2335590B (EU2)	A2335591B (EU3)
A2335592B (EU4)	A2335593B (EU5)	A2335594B (EU6)
A2335595B (EU7)	A2335596B (EU8)	

Model: NAD 30S/30/40		Date: 15-Feb-99	No.: 28
Subject: Service manual correction		Prepared by: E. Fukuyama	
From: GTSS Field Information 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 (      )		

The following information should be added to the service manual.

## SC953 : Scanner image setting error

### - Definition - [B]

The settings that are required for image processing using the scanner are not sent from the IPU.

### - Possible causes -

Defective software

Reissued: 28-Feb-99

## RTB Correction

The items in bold italics have been corrected or added.

Model: NAD 30S/30/40		Date: 31-Aug-98	No: 13b
Subject: Premature Toner Overflow Detection		Prepared by: M.Mimura	
From: GTSS Field Information 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

Toner overflow is detected prematurely.

## Caution

*The following is a note concerning servicing the transfer unit.*

*If the cover of the waste toner overflow sensor is completely covered with toner, the ON signal may be output even if the case is not actually full of toner.*

*To prevent toner from adhering to the sensor surface in the transfer unit before the case is full, a waste toner divider (mylar) has been added on the back of the cleaning blade. However, as noted in the explanation below, toner may still adhere to the surface of the sensor.*

*-If the transfer unit is removed from the main unit and laid flat, the waste toner in the case may shift and adhere to the sensor surface. (If the transfer unit is removed, please wipe the sensor surface right before putting it back in the machine.)*

*-If the right cover is opened with a good deal of force, the waste toner in the case may be stirred up and adhere to the sensor surface. (Please open/close the cover gently.)*

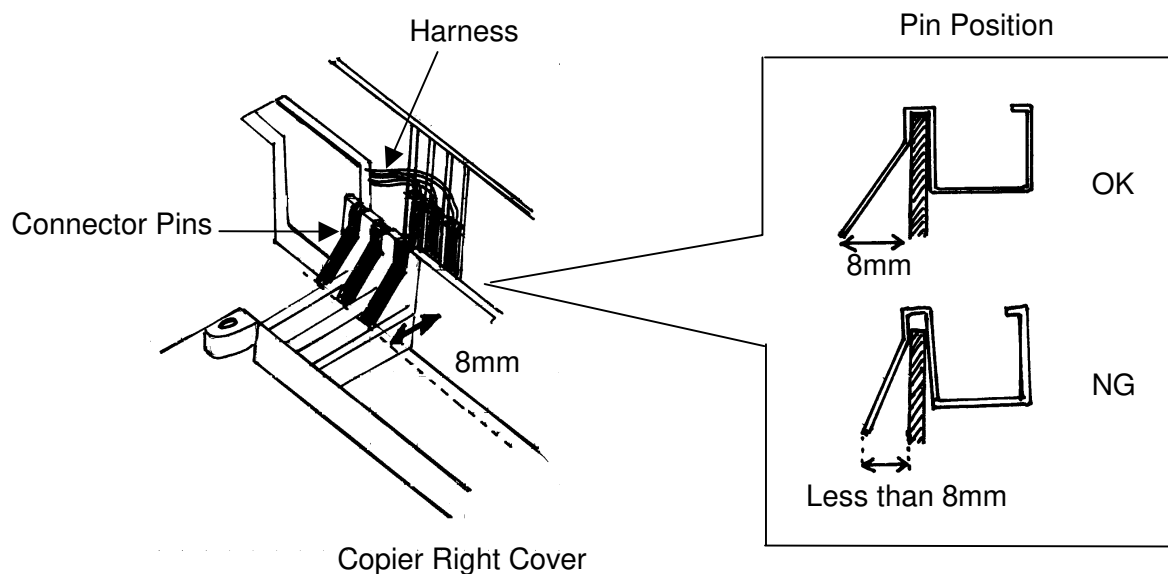
*In the cases described above in which toner may adhere to the sensor, this may cause incorrect detection. Even after the toner in the case has been cleaned out, toner may adhere to the sensor surface. In these cases, remove the sensor and use a soft cloth to wipe the toner off the surface of the sensor. Do not use any solvents like alcohol.*

## CAUSE 1:

The electrical contact between the metal plates on the transfer belt unit and the connector pins on the copier right cover is poor because the pins are bent or out of position.

## SOLUTION 1:

Set the pins in the proper position and bend the pin so that the distance between the pin edge and the cover rib is 8 mm.



Reissued: 28-Feb-99

Model: NAD 30S/30/40

Date: 31-Aug-98

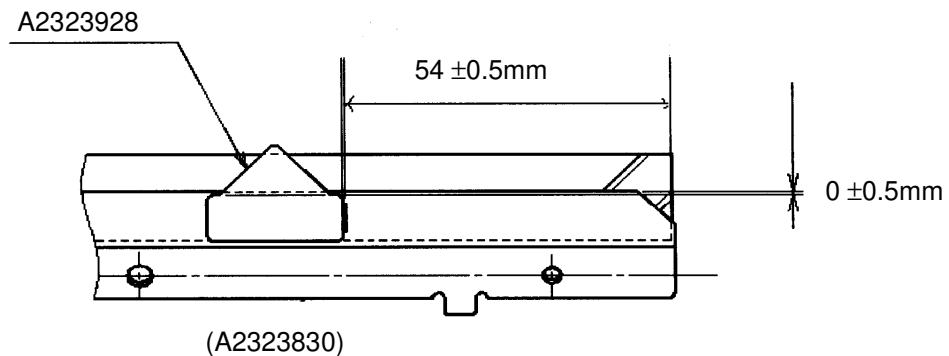
No: 13b

**CAUSE 2:**

When heavy copy jobs are made consecutively, used toner scraped off by the transfer belt cleaning blade may scatter and pile up on the toner overflow sensor. In the worst case scenario, this leads to an overflow detection malfunction.

**SOLUTION 2:**

1. Install the Toner Guide Mylar (#A2323928) on the transfer belt cleaning blade. This mylar will prevent the used toner from passing by the toner overflow sensor.



2. Replace the old type blade with the new type blade (#A2323830) which has the Toner Guide Mylar.

**Factory Action**

The new type cleaning blade has been implemented from the following production runs:

RPL: From July '98 production

RAI: From August '98 production

(See the MB to be issued later for the cut-in serial numbers.)

Model: NAD 30S/30/40 (Printer Controller Type 450)		Date: 31-Mar-99	No.: 29
Subject: Installation procedure for Asia (-39), Taiwan (-69) and China (-19) version models.		Prepared by: K. Ugaeri	
From: GTSS Field Information 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 checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

To solve the problems below, the firmware for the controller and the main frame have been modified. Please install the printer controller type 450 using the installation procedure below.

## A. Symptom

1. [Online] has been added for the printer fonts for the China/Taiwan machines. Please install this version when adding the printer for the China/Taiwan machines.
2. The registered fonts are not displayed on the Chinese machines during 4-line displays. Please install this version when adding the scanner option on the Chinese/Taiwan/Asian machines.

## B. Installation procedure

When the printer option is installed on the Asia (-39), Taiwan (-69) or China (-19) version of the NAD, use the firmware below for the printer controller and the BICU (main frame) which correspond with the 4-line displays and select the Dip Switch on the controller board depending on the language, as shown below.

### 1.Firmware version required

BICU F/W

Destination	Version	Part No.	Product Code
Asian (0 UK, 1 TW)	13.6.23 as	A2325115L	-39
Taiwanese (0 TW, 1 UK)	13.6.23 tw	A2325117H	-69
Chinese (0 CH, 1 UK)	13.6.23 ch	A2325116H	-19

These versions of the firmware are available from March production '99.

0 and 1 refer to the settings of Copier SP mode 5009.

Controller F/W

Version 1.75    Program No. A8505280E

Model: NAD 30S/30/40 (Printer Controller Type 450)

Date: 31-Mar-99

No.: 29

## 2.DIP Switch settings on the controller board

Asian main frame, with the '0 UK (English)/1 TW (Taiwanese)' version firmware  
or Taiwanese main frame, with the '0 TW (Taiwanese)/1 UK (English)' version firmware

Dip Switch No.2	Dip Switch No.3	Codes sent from controller
OFF	ON	Taiwanese (BIG-5)

Chinese main frame, with the '0 CH (Chinese)/1 UK (English)' version firmware

Dip Switch No.2	Dip Switch No.3	Codes sent from controller
ON	ON	Chinese (GB)

\*UK (English), TW (Taiwanese), and CH (Chinese) are selected in Copy SP mode (5009).

Note: 1 When the printer controller type 450 is installed on the other products, you do not need to change Dip switches, but keep the default (No.2 = OFF, No.3 = ON)

2 If you change the firmware from the European version to Asian version for the main frame, upgrade the controller firmware to ver 1.75 first.

Model: NAD 30S/30/40 (3000 Finisher)		Date: 31-Mar-99	No.: 30
Subject: Software Replacement Information		Prepared by: E. Fukuyama	
From: GTSS Field Information 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 (      )		

Below please find the modification history from the first production run for the Main Board up to Suffix D for the 3000-sheet Finisher (SR730).

## A6975656D

1. Occurrences of SC990
2. Defective paper exit for LG, DLT, A3 and B4 paper sizes.
3. Two staples missing when B5 size paper is stapled.
4. Stacking problems occur when paper curls during manual staple mode.  
(Modification of shift tray height during manual staple mode, exit roller rotation, speed and shift tray lowering timing)
5. When the paper curl is large during shift mode, the exit roller rolls up the paper.  
(Modification of the shift tray height in the shift mode, exit roller rotation speed, and shift tray lowering timing)

Model Code	Cut-in Serial #s
A697-15	1B58120001
A697-17	A7778110001
A697-22	AR38110281
A697-26	3R1128001
A697-55	L0328110267

## A6975656C

1. When a jam occurs in the finisher, if the jam is not removed, the stapler motor will not shut off.
2. When the power save mode command from the main frame is received, the machine initializes.

Model Code	Cut-in Serial #s
A697-15	1B58090001
A697-17	A7778090001
A697-22	AR38090001
A697-26	3R10980001
A697-55	L0328100052

Model: NAD 30S/30/40 (3000 Finisher)

Date: 31-Mar-99

No.: 30

**A6975656B**

1. To improve the stacking in the shift tray during stapling, the following modifications have been implemented.
  - a. The initial lowering timing of the shift tray is now faster and the stack start time has been modified to allow the shift tray to return to the top position first.
  - b. The line velocity for the exit roller has been changed from 600 mm/s to 700 mm/s. The paper exit pawl speed has also been changed to match this.
  - c. The timing for the lowering of the shift tray has been changed to 50 mm/s after the exit sensor has detected the leading edge of the paper.

Model Code	Cut-in Serial #s
A697-15	1B58070001
A697-17	A7778070001
A697-22	AR38070001
A697-26	3R10780001
A697-55	L0328100052

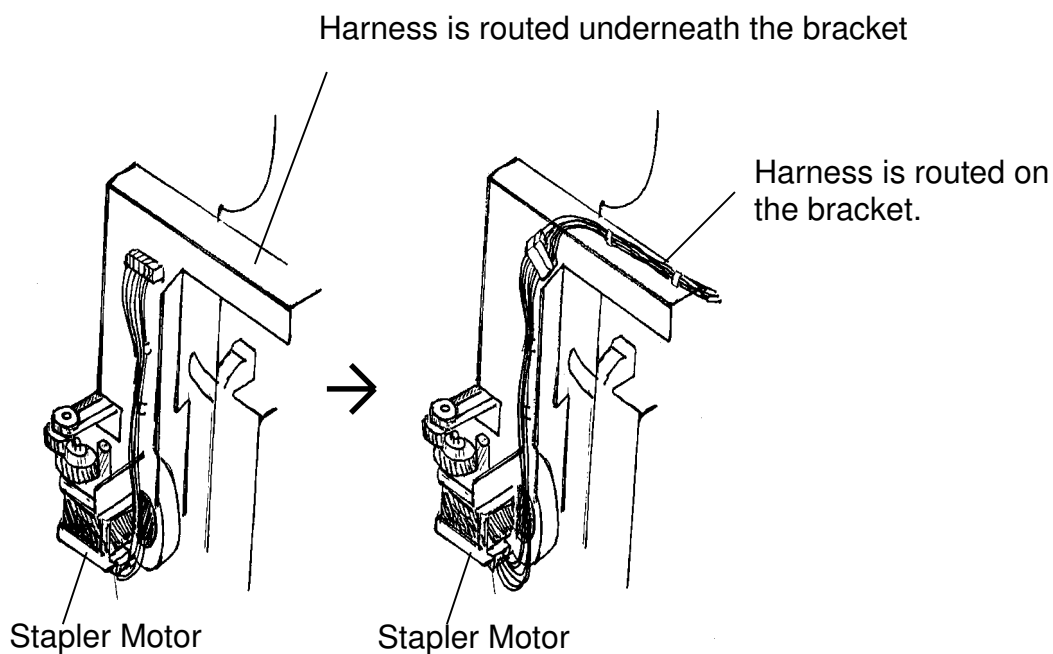
**A6975656A**

1. Modification to allow use of Chinese paper sizes.
2. Modification of the start of the shift tray in the staple mode.
3. When an exit jam occurs in the staple mode, if the door is shut before the paper is removed, the finisher stalls.
4. Corrected the problem of an SC not being displayed even though there was a problem with the paper exit pawl home position sensor during initialization.
5. If the diagonal staple mode was selected when there was a problem with the stapler rotation home position sensor, an SC occurred.

Model Code	Cut-in Serial #s
A697-15	1B58070001
A697-17	A7778070001
A697-22	AR38070001
A697-26	3R10780001
A697-55	L0328100052

Model: NAD 30S/30/40 3000 Finisher		Date: 15-Apr-99	No.: RA230031
Subject: SR730 Stapler Motor Harness Route Change		Prepared by: S. Hizen	
From: Technical Service 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

To prevent the stapler motor harness from being damaged, the harness route has been changed as shown in the illustration below:



Cut-in serial number for the harness route change:

- A697 - 15 : 1B59030221~
- 17 : A7779030001~
- 22 : AR39030001~
- 26 : 3R10390001~
- 55 : L0329032032~

Model: NAD 30S/30/40		Date: 15-Apr-99	No.: RA230032
Subject: SC 543		Prepared by: S. Hizen	
From: Technical Service 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

## SYMPTOM

SC 543 (Fusing overheat error 1)

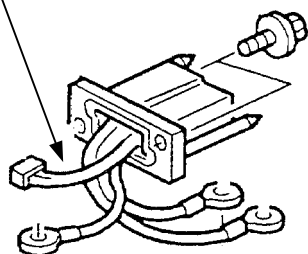
## CAUSE

Not enough heat insulation between the fusing thermistor harness and fusing unit bracket, causing the reading from the thermistor to be too high. The temperature of the fusing unit remained near the upper limit for a sustained period of time and the contact between the harness and the bracket led to the SC543.

## SOLUTION

The harness for the thermistor has been wrapped in a heat resistant silicone tube.

Thermistor harness



Harness – Fusing Unit 115V (A232-4094)  
 Harness – Fusing Unit 230V (A232-4151)

Note: The part numbers for both the Harness - Fusing Unit 115V (P/N: A232-4094) and the Harness - Fusing Unit 230V (P/N: A232-4151) have not been changed.

The serial number cut-in for this harness modification is as follows:

Model: NAD 30S/30/40

Date: 15-Apr-99

No.: RA230032

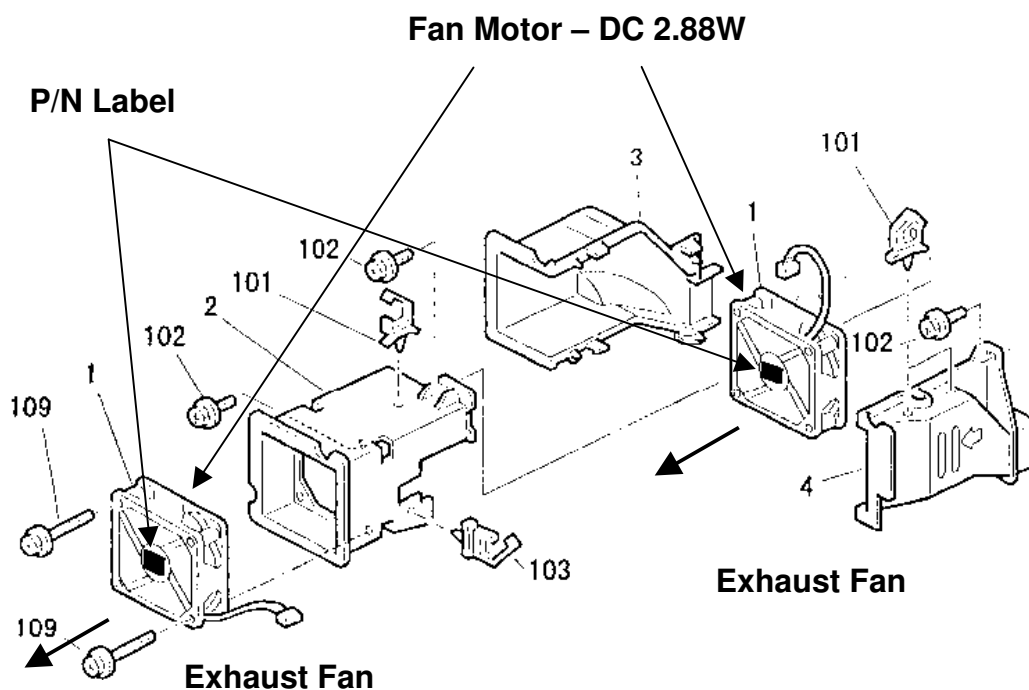
			RAI PRODUCTION	
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B88890001
Ricoh Aficio340	115/60	USA, Canada	A230-17	A7688890001
Ricoh Aficio340	115/60	Taiwan	A230-19	A7688890051
Gestetner 3235S nashuatec D435S Rex-Rotally 2835S	220/50	Europe, etc.	A230-22	AQ18890001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18980001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	
Ricoh Aficio340	220/50,60	Asia	A230-39	A7688880076
Lanier 5135	110/60	USA, Canada	A230-55	
Lanier 5134	220/50	Europe, Australia	A230-65	
Ricoh Aficio340	220/50	China	A230-69	A7688880326
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	1B98890001
Ricoh Aficio350	115/60	USA, Canada	A231-17	A7698880566
Ricoh Aficio350	110/60	Taiwan	A231-19	
Gestetner 3235 nashuatec D435 Rex Rotally 2835	220/50	Europe, etc.	A231-22	
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q28980001
Ricoh Aficio350	220/50	Europe, etc.	A231-27	A7698890001
Ricoh Aficio350	220/50,60	Asia	A231-39	
Lanier 5235	115/60	USA, Canada	A231-55	L5238880001
Lanier 5235	220/50	Europe, Australia	A231-65	L5238890566
Ricoh Aficio350	220/50	China	A231-69	A7698880776
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B18890001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A7708910194
Ricoh Aficio450	110/60	Taiwan	A232-19	A7708890918
Gestetner 3245 nashuatec D445 Rex-Rotally 2845	220/50	Europe, etc.	A232-22	AQ58890001
Infotec 4451 MF	220/50	Europe, Australia	A232-26	3Q38980001
Ricoh Aficio450	220/50	Europe, etc.	A232-27	A7708890001
Ricoh Aficio450	220/50,60	Asia	A232-39	A7708880841
Lanier 5245	115/60	USA, Canada	A232-55	L5248880181
Lanier 5245	220/50	Europe, Australia	A232-65	
Ricoh Aficio450	220/50	China	A232-69	A7708881047

Model: NAD 30S/30/40		Date: 15-Apr-99	No.: RA230033
Subject: Fan Motor Direction		Prepared by: S. Hizen	
From: Technical Service 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 (      )		

## Caution:

Please exercise caution when installing/removing the fan motor AX64-0080.

When you install the fan motor, be sure to check that the fan is installed with part number label facing out (exhaust direction) as shown in the illustration. If the fan is installed in the opposite direction (intake direction), a machine malfunction or overheating may occur.



Model: NAD 30S/30/40		Date: 30-Apr-99	No.: RA230034
Subject: No image on half of the page		Prepared by: S. Hizen	
From: Technical Service 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

## SYMPTOM

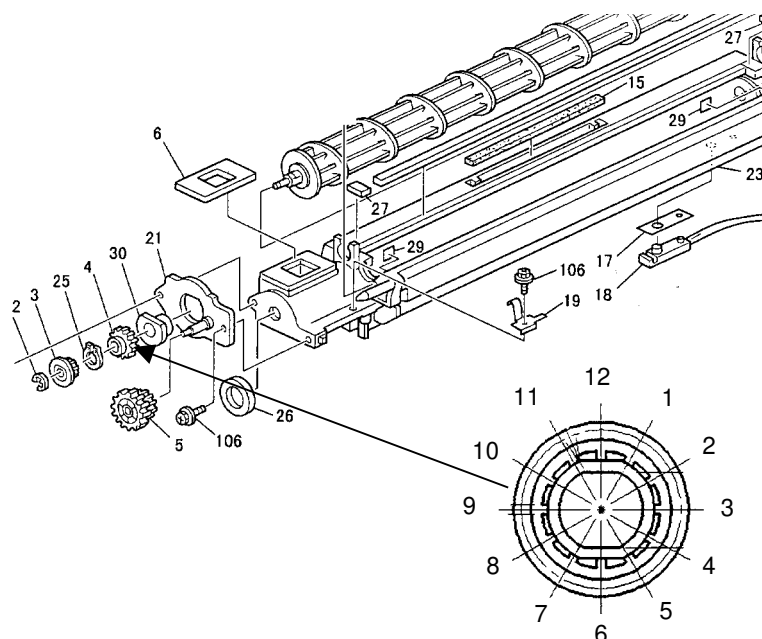
No image is developed on the rear side. All developer moves to the front side of the machine.

## CAUSE

The paddle roller drive gear is deformed and the developer transportation roller in the paddle roller does not rotate properly.

## SOLUTION

The paddle roller drive gear has been strengthened by adding ribs. The part number of the gear has not been changed. The difference between the old style and new style gear is the number of ribs: (Old: 6 ribs, New: 12 ribs)



New Gear 21Z  
with 12 ribs

Model: NAD 30S/30/40

Date: 30-Apr-99

No.: RA230034

MODEL NAME	V/Hz	DESTINATION	RAI PRODUCTION	
			CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B88880001
Ricoh Aficio340	115/60	USA, Canada	A230-17	A7688880001
Ricoh Aficio340	115/60	Taiwan	A230-19	A7688870076
Gestetner 3235S nashuatec D435S Rex-Rotaly 2835S	220/50	Europe, etc.	A230-22	AQ18880001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18880001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	
Ricoh Aficio340	220/50,60	Asia	A230-39	A7688870091
Lanier 5135	110/60	USA, Canada	A230-55	
Lanier 5134	220/50	Europe, Australia	A230-65	
Ricoh Aficio340	220/50	China	A230-69	
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	2B18880001
Ricoh Aficio350	115/60	USA, Canada	A231-17	A7698880011
Ricoh Aficio350	110/60	Taiwan	A231-19	
Gestetner 3235 nashuatec D435 Rex Rotaly 2835	220/50	Europe, etc.	A231-22	AQ38880001
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q38880001
Ricoh Aficio350	220/50	Europe, etc.	A231-27	A7698880001
Ricoh Aficio350	220/50,60	Asia	A231-39	A7698870702
Lanier 5235	115/60	USA, Canada	A231-55	258880001
Lanier 5235	220/50	Europe, Australia	A231-65	25238880166
Ricoh Aficio350	220/50	China	A231-69	A7698870682
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B18880001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A7708870271
Ricoh Aficio450	110/60	Taiwan	A232-19	A7708870662
Gestetner 3245 nashuatec D445 Rex-Rotaly 2845	220/50	Europe, etc.	A232-22	
Infotec 4451 MF	220/50	Europe, Australia	A232-26	
Ricoh Aficio450	220/50	Europe, etc.	A232-27	
Ricoh Aficio450	220/50,60	Asia	A232-39	A7708870677
Lanier 5245	115/60	USA, Canada	A232-55	25248880181
Lanier 5245	220/50	Europe, Australia	A232-65	25248880001
Ricoh Aficio450	220/50	China	A232-69	A7708881047

Model: NAD 30S/30/40		Date: 30-Apr-99	No.: RA230035
Subject: Developer Leakage		Prepared by: S. Hizen	
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 (      )		

## SYMPTOM

Developer leakage from the development unit.

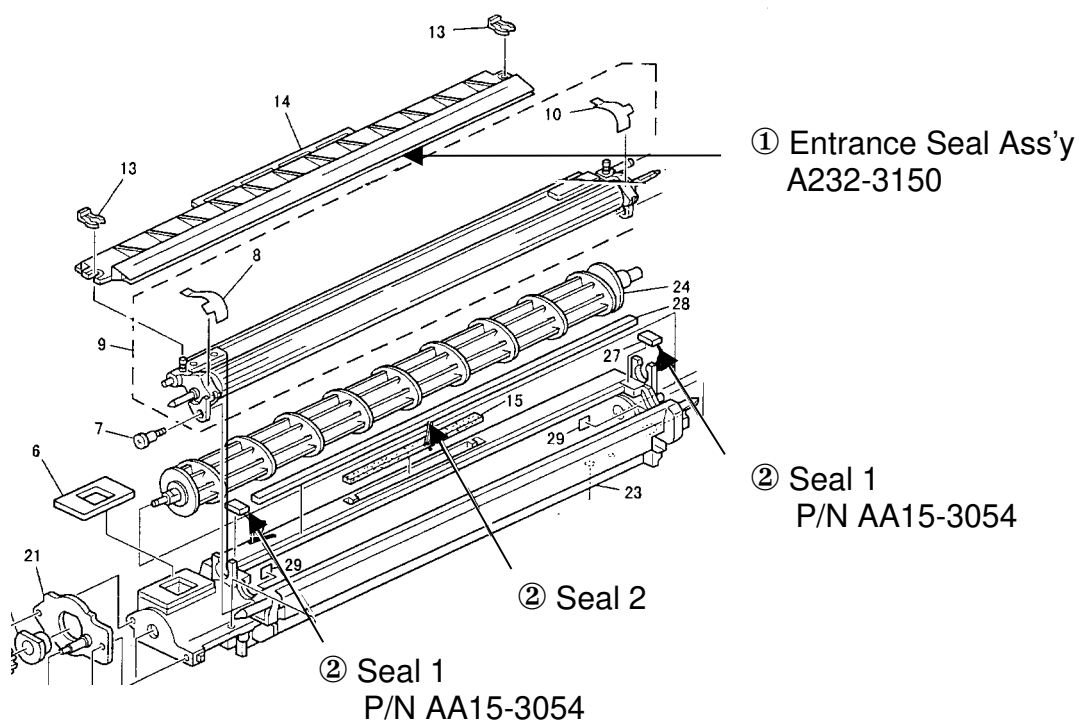
## CAUSE

1. Tiny clearance between the entrance seal ass'y and development unit casing due to the bowing of the entrance seal ass'y.
2. Tiny clearance between the sponge seals.

## SOLUTION

1. The width of the entrance seal ass'y has been changed as shown in the illustration.
2. The width of the side sponge seals has been changed as shown in the illustration.

Note: The part numbers of these parts have not been changed.

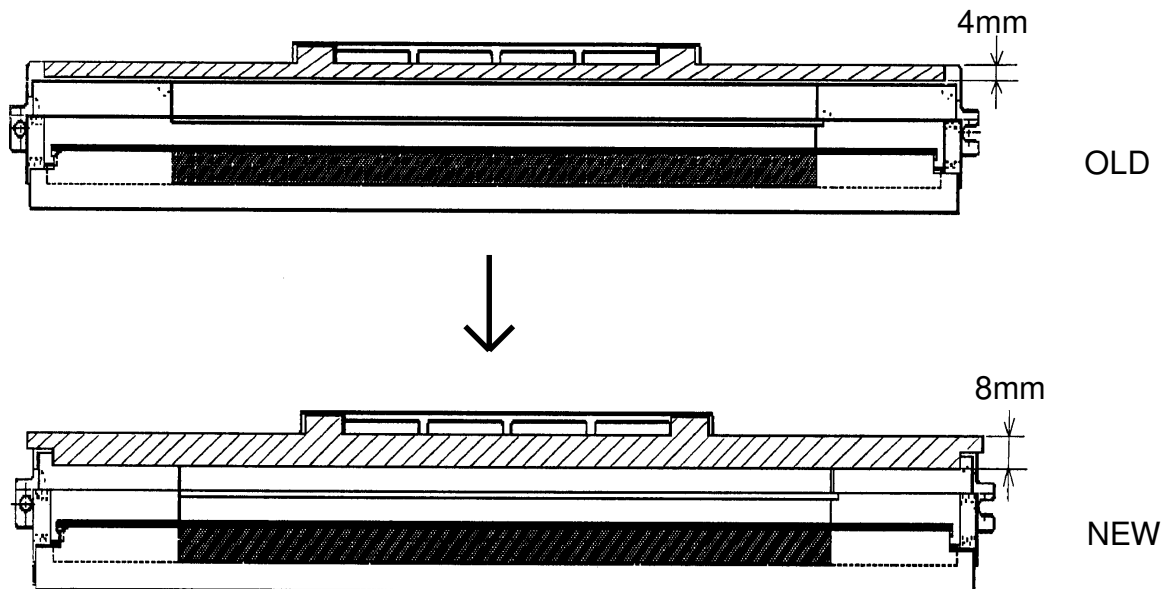


Model: NAD 30S/30/40

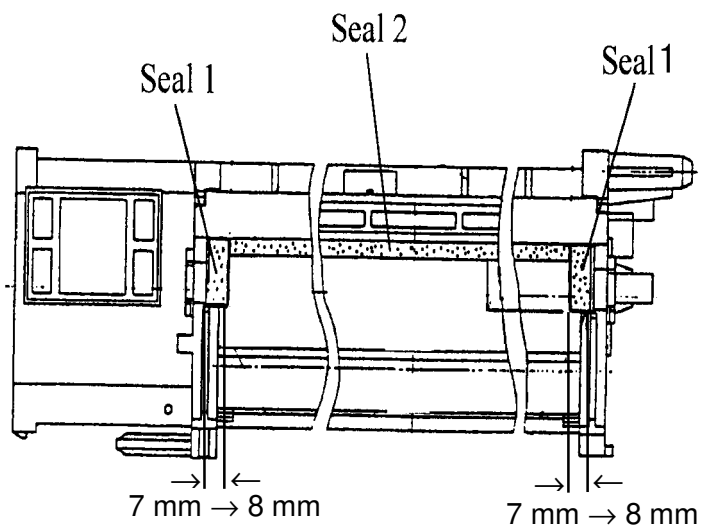
Date: 30-Apr-99

No.: RA230035

① : Entrance Seal Ass'y



② : The width of seal 1 has been changed from 7 mm to 8 mm.



Cut-in Serial Number

(Around October'98: The cut-in serial numbers are not known at this time because there were no part number changes.)

Model: NAD 30S/30/40		Date: 15-May-99	No.: RA230036
Subject: Service manual correction - SC 546		Prepared by: S. Tomoe	
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 (      )		

The information about SC546 on p7-15 of the service manual should be corrected.

## SC546-1: Fusing ready temperature malfunction – 1

-Definition – [A]

After warming-up is completed, the fusing temperature continuously fluctuates between 20°C over and 20°C below the standby temperature.

- Possible causes –

- Poor connection between the thermistor and the harness
- Poor fusing unit connection

## SC546-2: Fusing ready temperature malfunction – 2

-Definition – [A]

After warming-up is completed, the fusing temperature fluctuates between 20°C over and 20°C below the standby temperature 3 or more times per minute.

- Possible causes –

- Poor connection between the thermistor and the harness
- Poor fusing unit connection

Model: NAD 30S/30/40		Date: 15-May-99	No.: RA230037
Subject: Service Manual Correction (IOB DIP Switch)		Prepared by: S. Tomoe	
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 (      )		

The function of switch no.8 of DIP switch 101 on the I/O board should be deleted. This is because this switch is not used for the NAD machines

### - Incorrect -

I/O Board: DIP SW 101 (Service manual, P4-67)

No.	Function	ON	OFF
1	Copy Speed	35 cpm (180 mm/s)	45 cpm (230 mm/s)
8	Paper Size Detection (See Note 2)	Enabled	Disabled

- NOTE:** 1) Disabling jam detection is effective for the main machine (not for the options)
- 2) When installing the printer option, change the setting to "ON".

### - Correct -

I/O Board: DIP SW 101 (Service manual, P4-67)

No.	Function	ON	OFF
1	Copy Speed	35 cpm (180 mm/s)	45 cpm (230 mm/s)
8	Not used	Keep at "OFF"	

- NOTE:** 1) Disabling jam detection is effective for the main machine (not for the options)

Model: NAD 30S/30/40		Date: 15-Jun-99	No.: RA230038
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

The new version of the BICU firmware has been implemented on the production machines.

## 1. Software Version: 14.1

Affected Program Numbers:

Program Number	Contained Languages
A2325113R	US English (US), French (F), Spanish (E) – NA
A2325114Q	UK English (GB), French (F), German (D) – EU
A2325116J	UK English (GB), Simplified Chinese (HK) – China
A2325117J	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152H	UK English (GB), Spanish (E), Italian (I)
A2325153H	UK English (GB), French (F), Dutch (NL)
A2325154H	UK English (GB), Swedish (S), Norwegian (N)
A2325155H	UK English (GB), Danish (DK), Finnish (FIN)
A2325156H	UK English (GB), Spanish (E), Portuguese (P)
A2325157H	UK English (GB), Polish (PL), Hungarian (H)
A2325158H	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40

Date: 15-Jun-99

No.: RA230038

## Corrections

No,	Title	Errors corrected by modified software:
1	Paper Jam	<p>When a "C" jam occurs, the jam message display can be cleared by opening the front or right door.</p> <p>Modified so that "C" jams can only be cleared by opening the right door.</p> <p><u>Note:</u> As part of the modification, one right door interlock switch has been added and one front door interlock switch has been removed. Also, SP5957 has been added to allow usage of either the old or new interlock switches. If using the old interlock switch, please set SP5957 to 0. If using the new switch, please set SP5957 to 1. If SP5957 is not set properly, the 'door open' panel display may not function properly and toner may not be supplied properly after toner bottle replacement.</p>
2.	Toner overflow condition	<p>When the sensor detects toner, the "Near Full" message is immediately displayed. After the toner signal has been on for 1000 copies, the machine shuts off. Once the toner signal disappears, the "Near Full" message is no longer displayed and the counter is reset.</p> <p><u>After modification:</u> After the toner signal has been on for 500 consecutive copies, the "Near Full" message is displayed. After "Near Full" has been displayed for 1000 copies, the machine shuts off. Once the toner signal disappears, the counter is reset.</p>
3	Dirty background and leading edge	<p>There is a tendency for a 'dirty' background or leading edge to develop after the machine has not been used for a long while. There is also a tendency for increased image density. These tendencies are due to decreased turboelectric charge of the toner.</p>

Model: NAD 30S/30/40

Date: 15-Jun-99

No.: RA230038

4.	Machine warm-up stops	The initial machine warm-up operations stop if one or more of the doors to the option units are open (e.g. 1 bin tray, finisher). The machine warm-up does not restart after closing the doors.
5.	User code	In user code mode, after entering power saver mode and then exiting, the counter does not count the number of copies the user makes.
6.	Norwegian language display error	Using the Norwegian language, when the machine should display 'Copying will start after warm up' in Norwegian, it is displayed in French. <u>Conditions:</u> - Switching on the machine in cold condition, - Setting an original and pressing the start key <i>during machine warm-up</i> . The French message then appears in the display.
7.	English language display error	SP2207 displayed a spelling error: "Forced" was spelled incorrectly.

Model: NAD 30S/30/40		Date: 30-Jun-99	No.: RA230039
Subject: IOB Board and Toner Bottle Motor		Prepared by: E. Fukuyama	
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 (       )		

**SYMPTOM**

Toner Lamp On.

**CAUSE:**

Both the toner bottle motor and IOB board are damaged.

When short circuits occur in the motor as a result of the toner bottle motor carbon brush having been worn down, an abnormal current flows through the IOB and consequently causes damage to IC122.

**SOLUTION:**

1. The wearing down of the carbon brush has been minimized by a change in the material of the brush itself.
2. IC122s with internal protective circuits have been added to replace the previous IC122s. This will prevent excessive current flow through the circuit and protect the internal circuitry from damage in the event of a motor short circuit.

Model: NAD 30S/30/40	Date: 30-Jun-99	No.: RA230039
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## Modified Motor

MODEL NAME	V/Hz	DESTINATION	RAI PRODUCTION	
			CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B89820001
Ricoh Aficio340	115/60	USA, Canada	A230-17	A7689820001
Ricoh Aficio340	115/60	Taiwan	A230-19	A7689820026
Gestetner 3235S nashuatec D435S Rex-Rotally 2835S	220/50	Europe, etc.	A230-22	AQ19830001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18390001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	
Ricoh Aficio340	220/50,60	Asia	A230-39	A7689820081
Lanier 5135	110/60	USA, Canada	A230-55	
Lanier 5134	220/50	Europe, Australia	A230-65	
Ricoh Aficio340	220/50	China	A230-69	
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	1B99820001
Ricoh Aficio350	115/60	USA, Canada	A231-17	A7699820001
Ricoh Aficio350	110/60	Taiwan	A231-19	
Gestetner 3235 nashuatec D435 Rex Rotally 2835	220/50	Europe, etc.	A231-22	AQ39830001
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q28390001
Ricoh Aficio350	220/50	Europe, etc.	A231-27	A7699830001
Ricoh Aficio350	220/50,60	Asia	A231-39	A7699821461
Lanier 5235	115/60	USA, Canada	A231-55	L5239812078
Lanier 5235	220/50	Europe, Australia	A231-65	L5239832451
Ricoh Aficio350	220/50	China	A231-69	
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B19820001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A7709820001
Ricoh Aficio450	110/60	Taiwan	A232-19	A7709820954
Gestetner 3245 nashuatec D445 Rex-Rotally 2845	220/50	Europe, etc.	A232-22	AQ59830001
Infotec 4451 MF	220/50	Europe, Australia	A232-26	3Q38390001
Ricoh Aficio450	220/50	Europe, etc.	A232-27	A7709830001
Ricoh Aficio450	220/50,60	Asia	A232-39	A7709820651
Lanier 5245	115/60	USA, Canada	A232-55	L5249822066
Lanier 5245	220/50	Europe, Australia	A232-65	L5249822266
Ricoh Aficio450	220/50	China	A232-69	

Model: NAD 30S/30/40	Date: 30-Jun-99	No.: RA230039
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## Modified IOB Board

MODEL NAME	V/Hz	DESTINATION	RAI PRODUCTION	
			CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B89830001
Ricoh Aficio340	115/60	USA, Canada	A230-17	
Ricoh Aficio340	115/60	Taiwan	A230-19	A7689830001
Gestetner 3235S nashuatec D435S Rex-Rotaly 2835S	220/50	Europe, etc.	A230-22	AQ19840001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18490001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	
Ricoh Aficio340	220/50,60	Asia	A230-39	A7689830041
Lanier 5135	110/60	USA, Canada	A230-55	
Lanier 5134	220/50	Europe, Australia	A230-65	
Ricoh Aficio340	220/50	China	A230-69	
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	1B99830001
Ricoh Aficio350	115/60	USA, Canada	A231-17	A7699830075
Ricoh Aficio350	110/60	Taiwan	A231-19	
Gestetner 3235 nashuatec D435 Rex Rotaly 2835	220/50	Europe, etc.	A231-22	AQ39830001
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q28490001
Ricoh Aficio350	220/50	Europe, etc.	A231-27	A7699840001
Ricoh Aficio350	220/50,60	Asia	A231-39	A7699851461
Lanier 5235	115/60	USA, Canada	A231-55	L5239831655
Lanier 5235	220/50	Europe, Australia	A231-65	L5239843286
Ricoh Aficio350	220/50	China	A231-69	
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B19830001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A7709830123
Ricoh Aficio450	110/60	Taiwan	A232-19	
Gestetner 3245 nashuatec D445 Rex-Rotaly 2845	220/50	Europe, etc.	A232-22	AQ58930001
Infotec 4451 MF	220/50	Europe, Australia	A232-26	3Q38490001
Ricoh Aficio450	220/50	Europe, etc.	A232-27	A7709841268
Ricoh Aficio450	220/50,60	Asia	A232-39	
Lanier 5245	115/60	USA, Canada	A232-55	L5249832456
Lanier 5245	220/50	Europe, Australia	A232-65	L5249832696
Ricoh Aficio450	220/50	China	A232-69	

Model: NAD 30S/30/40		Date: 15-Jul-99	No.: RA230040
Subject: Development Unit Lock Lever		Prepared by: E. Fukuyama	
From: Technical Service 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

The method for securing the development unit has been changed, and is reflected in production runs from the end of May, 1999.

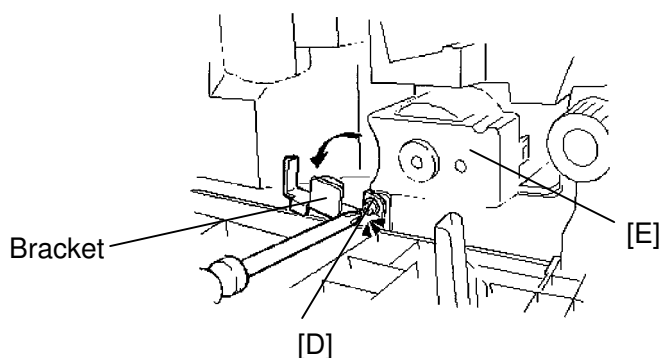
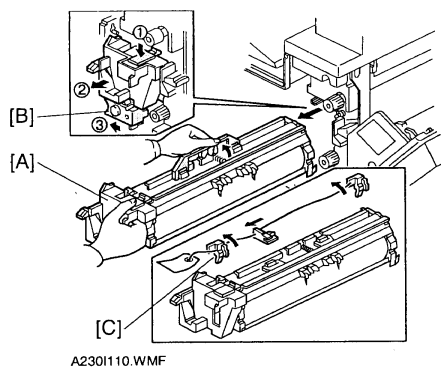
The development unit replacement procedure has also been changed. The following is to inform you of those changes.

## Modifications:

The development unit lock lever has been removed.

A bracket for securing the unit has been added.

Development Unit Replacement Procedure. (Service manual page 3-7)



6. Open the front cover.

7. Push down the lever (1). Then pull the PCU [A] out a small distance (2), and move the development unit [B] to the left (3) so that the development unit is away from the drum, then slide out the PCU completely.

8. Remove three clamps [C].

9. While loosening screw [D], turn the bracket counterclockwise, Then remove the development unit [E].

Model: NAD 30S/30/40		Date: 31-Aug-99	No.: RA230041
Subject: Exposure Lamp		Prepared by: E. Fukuyama	
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 checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

## SYMPTOM

The following occurs just after turning on the power.

Copying : The first page is blank and SC101 is displayed.

Faxing : The first page is blank and SC101 is displayed. However, the transmission results are reported as being normal.

This symptom is limited to the first sheet after turning on the power. However, even on the same machine, this problem does not occur every time the power is turned on.

## CAUSE

The amount of light from the exposure lamp is insufficient.

If making a copy or starting a fax transmission when the lamp is abnormally slow in reaching the ready status, the lamp is not able to produce the required amount of light within the given regulated time period.

The source of the problem has been identified as defective internal components in lamps that were produced in March 1999 (and is therefore limited to these lamps).

## Action required

The lamps produced in March were installed in machines produced in March, April and May 1999. If any machines have serial numbers matching those listed on the last page of this RTB, please check the exposure lamp lot number by following the procedure described below. If the lamps have lot numbers beginning with 39X, please replace them. The number will be 39X, where 39 indicates a March 1999 production date and X indicates the actual day on which the lamp was produced. Each month is assigned a different lot number (continuing from "37" in Jan. 1999). Therefore January 1999 is "37", February = "38", and March = "39". This information can be found printed in black on the black lamp cap on the rear side (and therefore may be difficult to read).

*Procedure for checking the exposure lamp lot numbers (and replacement, if necessary):*

1. Remove the exposure glass.
2. Slide the 1<sup>st</sup> scanner to the cutout in the rear scanner frame.
3. Read the lot number printed on the lamp cap.
4. If the lot number is 39X, replace the exposure lamp.

Reissued: 30-Sep-99

Model: NAD 30S/30/40	Date: 31-Aug-99	No.: RA230041a
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## Serial Number of Machines

Model No.		March production	April production	May production
A230-10	340	1B89830001 - 150	1B89840001 - 50	<b>1B89850001 – 140</b>
A230-19	40	A7689830001 - 40	-	-
A230-22	107	-	AQ19840001 - 57	<b>AQ19850001 – 50</b>
A230-26	61	-	3Q18490001 - 46	<b>3Q18590001 – 15</b>
A230-39	402	A76989830041 - 186	A7699240001 - 133	<b>A7689850001 – 123</b>
A231-10	2315	1B99830001 - 910	1B99840001 - 665	<b>1B99850001 – 740</b>
A231-17	4505	A7699830075 - 1769	A7699840092 - 1551	<b>A7699850111-1460</b>
A231-22	299	AQ39830069 - 220	AQ39840001 - 72	<b>AQ39850001 – 75</b>
A231-26	50	-	3Q28490001 - 25	<b>3Q28590001 – 25</b>
A231-27	201	-	A7699840001 - 91	<b>A7699850001 – 110</b>
A231-37	350	A7699030351 - 600	-	-
A231-39	12	-	A7699841552 - 1556	<b>A7699851461-1467</b>
A231-52	1784	-	AQ39240001 - 689	AQ39250001 – 1095
A231-55	1160	-	L5239842786 - 3285	<b>L5239853858–4517</b>
A231-56	250	-	3Q22490001 - 125	3Q22590001 – 125
A231-57	1150	-	A7699240001 - 614	A7699250001 – 536
A231-65	572	-	L5239843286 - 3550	<b>L5239853551–3857</b>
A232-10	1593	2B19830448 - 655	2B19840001 - 885	<b>2B19850001 – 500</b>
A232-17	3627	A7709830123 - 1197	AA770984001 - 1267	<b>A7709850384-1668</b>
A232-22	245	-	AQ59840001 - 140	<b>AQ59850001 – 105</b>
A232-26	86	-	3Q38490001 - 55	<b>3Q38590001 – 31</b>
A232-27	684	-	A7709841268 - 1568	<b>A7709850001 – 383</b>
A232-37	250	AA7709030251 - 500	-	-
A232-39	509	A77098301198 - 1350	A7709841569 - 1705	<b>A7709851669-1887</b>
A232-52	1354	AQ59230001 - 267	AQ59240001 - 415	AQ59250001 – 672
A232-55	575	-	L5249843393 - 3732	<b>L5249853733–3967</b>
A232-56	444	3Q32390001 - 87	3Q32490001 - 165	3Q32590001 – 192
A232-57	1368	-	A7709240001 - 839	A7709250001 - 529
A232-65	1037	-	L5249842926 - 3392	<b>L5249853968-4537</b>

Total 25370



Reissued: 17-Apr-00

Model: NAD 30S/30/40		Date: 15-Sep-99	No.: RA230042a
Subject: Improving the method of fusing jam paper removal		Prepared by: M. Kitajima	
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 (Operation Improvement)		

This bulletin is to inform you of the improved method for removing jammed paper (fusing jams).

No.	Improvement	Current	Parts	Remarks
1	To allow the fusing jam indication to be cleared by opening and closing the right cover only (allowing visual confirmation of presence and location of jammed paper), the detection system has been changed by adding an interlock switch and cable.	Fusing unit jam indication is reset by the opening and closing of not only the right cover but also the front cover.	Relay harness Switch Screws – M3x45 Clamps Firmware (RTB 38)	These parts are for the machines in the field.
2	To confirm the presence and location of jammed paper more easily, the jam detection timing has been speeded up.	Jammed paper may not be visible.	Firmware (RTB 44)	
3	So that the jammed paper can be removed more easily, the fusing knob can be rotated in both directions (by changing the knob spring).	Jammed paper at the hot roller stripper cannot be cleared by one directional rotation of the knob.	Screw – M3x8 Spring Decal – fusing knob	

Concerning implementation in machines in mass-production, an MB will be issued once the cut-in serial number is available.

To facilitate servicing in the field, a kit has been registered as a service part and will be available in Atsugi SPC at the end of September, 1999.

P/N **A2309901**      Right Door SW Kit

Components:

No.	P/N	Description	Q'ty
1	<b>A2309900</b>	Relay Harness	1
2	11050109	Clamp	2
3	12042466	Switch	1
4	AA143519	Screw – M3x45	2
5	A2324072	Spring	1
6	09543008B	Screw – M3x8	1
7	<b>A2309902</b>	Decal – Fusing Knob	1
8	A2321386	Decal – Jam Removal	1

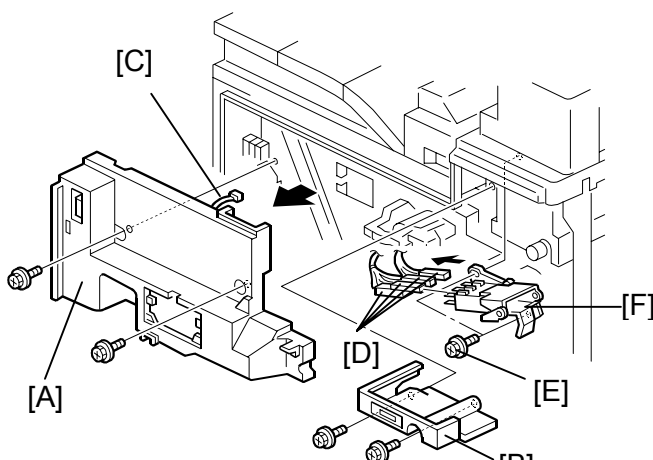
Reissued: 17-Apr-00

Model: NAD 30S/30/40

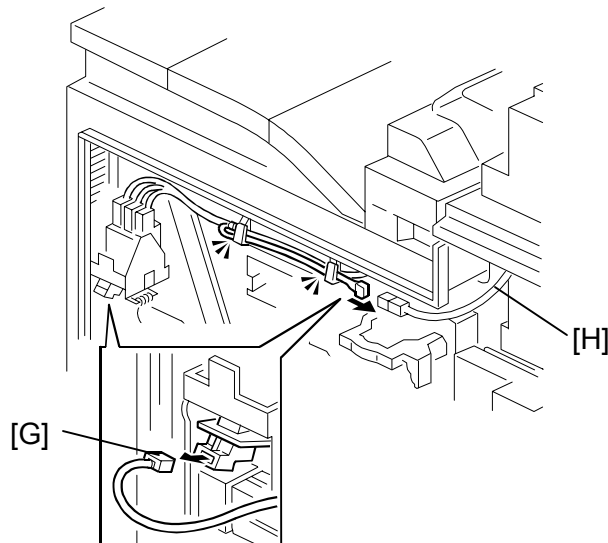
Date: 15-Sep-99

No.: RA230042a

## Right Door Modification Procedure



1. Turn the main power switch off, open the front cover and remove both the upper [A] and left inner [B] covers (2 screws each). Since the total counter cable is attached to the mainframe behind the left inner cover, remove this connector [C] as well.
2. Remove the connectors [D] of the interlock switches (inside the upper inner cover) and the 2 screws [E] that fasten the bracket to the mainframe. Finally, remove the right cover switch assembly [F].



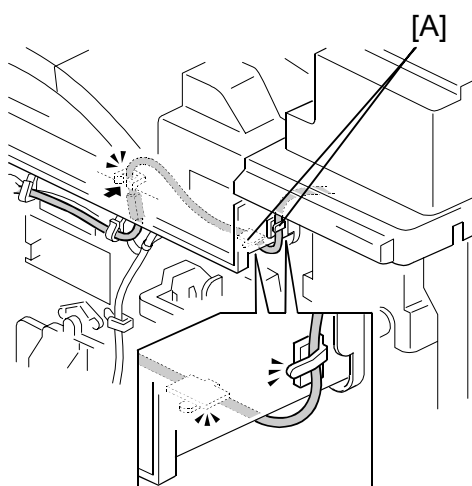
3. Remove the connector [G] from the push switch that is attached to the front cover switch assembly (located behind the left inner cover). Remove the cable from the wire clamp.
4. Connect the relay harness [H] to the connector that was detached from the push switch in step 3. Fix the harness in place with clamps (2 places).

Reissued: 17-Apr-00

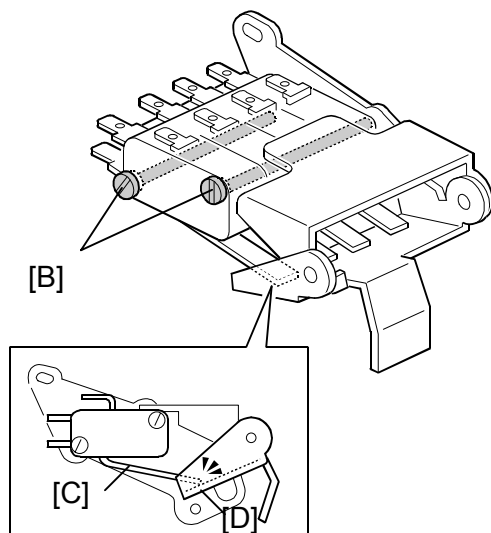
Model: NAD 30S/30/40

Date: 15-Sep-99

No.: RA230042a



5. Remove the toner bottle unit. Attach 1 clamp [A] to the bottom face of the upper cover located just above the toner bottle insertion area (see the above illustration) and another clamp to the upper cover of the surface located to the left of the fusing unit. Clean the areas where the clamps are to be attached with a dry cloth.
6. To prevent the extended harness from moving freely inside the machine, clamp it to the edge saddle (protective wire clamp) located above and to the left of the toner bottle insertion area.

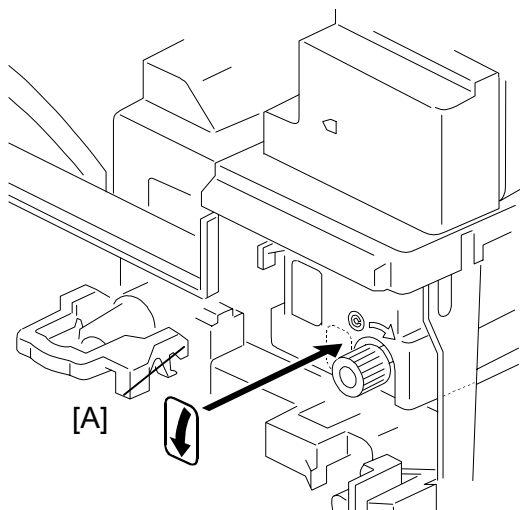


7. Since one interlock switch has been added to the new right cover switch assembly, it is necessary to replace the step screws [B] with longer ones. At this time, confirm that interlock switch actuators [C] are under the lever [D] and that the switch functions normally.
8. Attach the new right cover switch assembly in the reverse order in which the old assembly was removed (in step 2). The attachment positions of the four connectors to the interlock switches are not critical.
9. Reattach the toner bottle unit, upper inner cover and left inner cover to their original locations. When reattaching the left inner cover, be sure to connect the total counter connector.

Reissued: 17-Apr-00

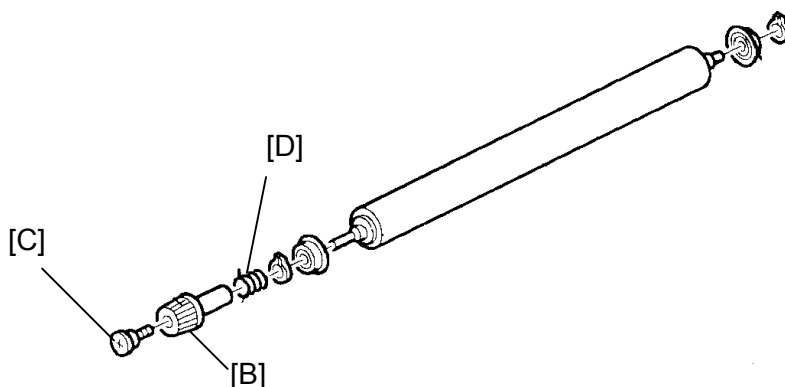
Model: NAD 30S/30/40	Date: 15-Sep-99	No.: RA230042a
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10. Attach the decal [A] for the fusing knob to the fusing cover (as shown above).



11. After adding the interlock switch as described in step 7, replace the mainframe ROM with version 14.3 (or higher).
12. After updating the mainframe ROM, enter SP mode, select SP 5957 and press 1 to enable the right cover switch function. Press ENTER and exit the SP mode.
13. Turn the main switch off and on.
14. Attach the jam-removal decal (see MB 12).

## Fusing Knob Modification Procedure



1. Remove the fusing unit.
2. Remove the fusing unit upper cover (refer to the service manual p 6-40).
3. Remove the fusing knob [B] (1 screw [C]).
4. Remove the spring [D].
5. Attach the new spring to the pressure roller shaft (twist it on).  
Note: Set the spring so that it is firmly positioned against the C-ring.
6. Attach the fusing knob.
7. Install the new screw (M3 x 8).
8. Confirm that the knob rotates in both directions.

Model: NAD 30S/30/40		Date: 15-Sep-99	No.: RA230043
Subject: Premature Toner Overflow detection (2)		Prepared by: M. Kitajima	
From: Technical Service 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

This bulletin is to inform you of an additional countermeasure for premature toner overflow detection.

## SYMPTOM

Toner overflow condition is declared prematurely.

## CAUSE 1

The sensor was designed to report a near full condition ***immediately*** after detecting the presence of toner (even if the actual condition is not near-full).

## SOLUTION 1

Install firmware ver. 14.1 or later. To improve the accuracy of toner overflow detection, the "Near Full" message is displayed after the toner signal is on for 500 consecutive copies. Please refer to RTB 38.

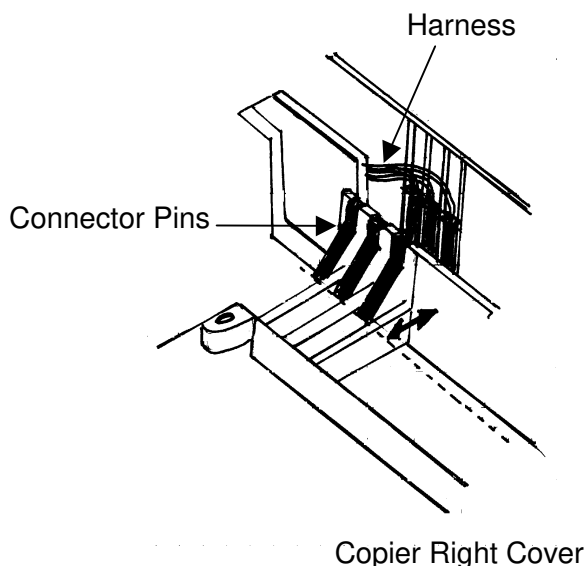
## CAUSE 2

The electrical contact between the metal plates on the transfer belt unit and connector pins on the copier right cover is poor because the pins are bent. Please refer to RTB 13b.

## SOLUTION 2

To prevent the connector pins from being bent, the material of this pin has been changed from phosphorus bronze to SUS. The part number of the relay harness (A2323995) has not been changed.

The cut-in serial number is mentioned on the next page.



Model: NAD 30S/30/40

Date: 15-Sep-99

No.: RA230043

## Modified the Relay Harness

			RAI PRODUCTION	
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B89820001
Ricoh Aficio340	115/60	USA, Canada	A230-17	A7689820001
Ricoh Aficio340	115/60	Taiwan	A230-19	A7689820026
Gestetner 3235S nashuatec D435S Rex-Rotaly 2835S	220/50	Europe, etc.	A230-22	AQ19830001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18390001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	
Ricoh Aficio340	220/50,60	Asia	A230-39	A7689820081
Lanier 5135	110/60	USA, Canada	A230-55	
Lanier 5134	220/50	Europe, Australia	A230-65	
Ricoh Aficio340	220/50	China	A230-69	
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	1B99820403
Ricoh Aficio350	115/60	USA, Canada	A231-17	A7699820001
Ricoh Aficio350	110/60	Taiwan	A231-19	
Gestetner 3235 nashuatec D435 Rex Rotaly 2835	220/50	Europe, etc.	A231-22	AQ39830001
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q28390001
Ricoh Aficio350	220/50	Europe, etc.	A231-27	A7699830001
Ricoh Aficio350	220/50,60	Asia	A231-39	A7699821461
Lanier 5235	115/60	USA, Canada	A231-55	L5239812078
Lanier 5235	220/50	Europe, Australia	A231-65	L5239832451
Ricoh Aficio350	220/50	China	A231-69	
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B19820001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A7709820001
Ricoh Aficio450	110/60	Taiwan	A232-19	A7709820954
Gestetner 3245 nashuatec D445 Rex-Rotaly 2845	220/50	Europe, etc.	A232-22	AQ59830001
Infotec 4451 MF	220/50	Europe, Australia	A232-26	3Q38390001
Ricoh Aficio450	220/50	Europe, etc.	A232-27	A7709830001
Ricoh Aficio450	220/50,60	Asia	A232-39	A7709820651
Lanier 5245	115/60	USA, Canada	A232-55	L5249822066
Lanier 5245	220/50	Europe, Australia	A232-65	L5249822266
Ricoh Aficio450	220/50	China	A232-69	

Model: NAD 30S/30/40

Date: 15-Sep-99

No.: RA230043

			RPL PRODUCTION	
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Gestetner 3235S nashuatec D435S Savin 2835D	220/50	Europe, etc.	A230-52	AQ1829XXXX
Infotec 4351MF	220/50	Europe, Australia	A230-56	3Q12790001
Ricoh Aficio340	220/50	Europe, etc.	A230-57	A768831XXXX
Gestetner 3235 nashuatec D435 Rex-Rotaly 2835	220/50	Europe, etc.	A230-52	AQ39240001
Infotec 4352MF	220/50	Europe, Australia	A230-56	3Q22490001
Ricoh Aficio350	220/50	Europe, etc.	A230-57	A7699240001
Gestetner 3245 nashuatec D445 Rex-Rotaly 2845	220/50	Europe, etc	A230-52	AQ59230001
Infotec 4451MF	220/50	Europe, Australia	A230-56	3Q32490001
Ricoh Aficio450	220/50	Europe	A230-57	A7709240001

Model: NAD 30S/30/40		Date: 15-Sep-99	No.: RA230044
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

The new version of the BICU firmware has been implemented on the production machines.

## 1. Software Version: 14.3

Affected Program Numbers:

Program Number	Contained Languages
A2325113T	US English (US), French (F), Spanish (E) – NA
A2325114S	UK English (GB), French (F), German (D) – EU
A2325116L	UK English (GB), Simplified Chines (HK) – China
A2325117L	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152K	UK English (GB), Spanish (E), Italian (I)
A2325153K	UK English (GB), French (F), Dutch (NL)
A2325154K	UK English (GB), Swedish (S), Norwegian (N)
A2325155K	UK English (GB), Danish (DK), Finnish (FIN)
A2325156K	UK English (GB), Spanish (E), Portuguese (P)
A2325157K	UK English (GB), Polish (PL), Hungarian (H)
A2325158K	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40

Date: 15-Sep-99

No.: RA230044

## Corrections

No,	Title	Errors corrected by modified software:
1	SC101	<p>When SC101 occurs during fax transmission, the machine releases a blank sheet. The transmission results are then reported as normal.</p> <p>The first page has no image on the scanner output (blank sheet) and SC101 is displayed.</p> <p><u>Countermeasure:</u></p> <p>No actual transmission will take place during memory transmission.</p> <p>In the case of immediate transmission, the transmission will be interrupted and an error will be reported in the results.</p> <p>Regarding the scanner, the software could also be modified so that an error message is displayed by the driver during use.</p>
2.	Fusing Jam	<p>In the case of fusing jam occurrences, there are instances where the jammed paper is not visible to the user and a service call then becomes necessary.</p> <p><u>Countermeasure:</u></p> <p>The detection of fusing jams has been modified so that the paper will be stopped at a point where the trailing edge is visible.</p>
3	Wrong language displayed	<p>When in French display mode, the display for an open 1-bin tray cover is in German.</p>

Model: NAD 30S/30/40		Date: 30-Sep-99	No.: RA230045
Subject: D Jam (Exit unit or Bridge unit)		Prepared by: M. Kitajima	
From: Technical Service 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**

Paper jam in the exit unit or bridge unit under low-humidity conditions. The paper is stopped in the exit or bridge unit.

**CAUSE**

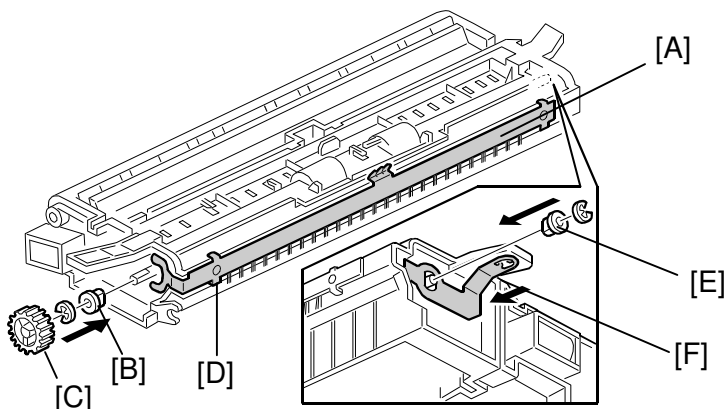
A malfunction caused by static electricity build-up around the sensor in the exit unit or bridge unit

**SOLUTION**

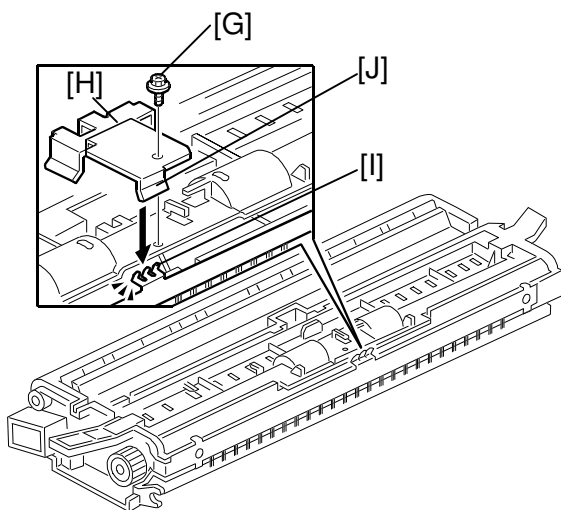
As a countermeasure to preventing the build-up of static electricity, a relay harness and metal plates have been added. When the cut-in serial number is available, the MBs will be issued. The procedure is given on the next page.

## Exit Unit Installation Procedure

Note: The following action should be taken when a paper jam occurs at the exit unit.



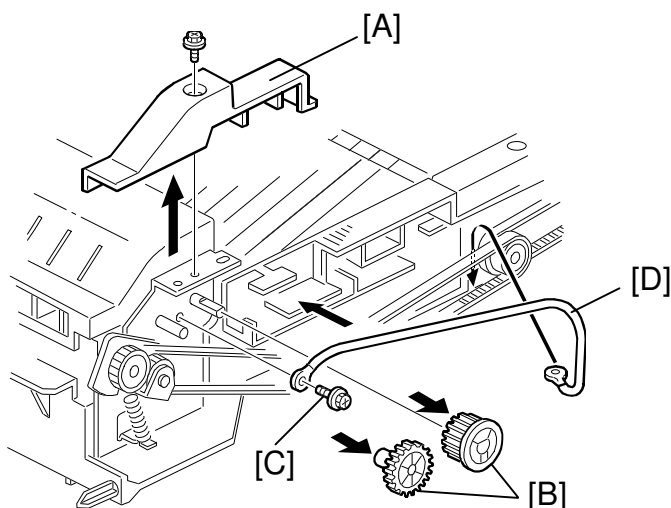
1. Replace the anti-static brush assembly with the new one [A] (A2844460) after removing the bushing [B] (1 E-ring) and gear [C].  
**Note:** Although the groove of the frame can be located in both the front and back, the standard is for the groove to be located in the back [D]. The grounding plate pawls for the rear groove should be set first, followed by those for the front groove.
2. Install the bushing [B].
3. Remove the bushing [E] (1 E-ring).
4. Attach the edge of this grounding plate [F] (A2844462) to the back of the attachment projection on the exit unit frame.



5. After removing the screw [G] which secures the exit sensor, attach the sensor grounding plate [H] (A2844463) to the exit sensor and secure it with the screw [G].  
**Note:** Make sure that area [I] of the anti-static brush assembly is facing inward of area [J] of the sensor grounding plate at the time of attachment.

## Installation Procedure for the Bridge Unit

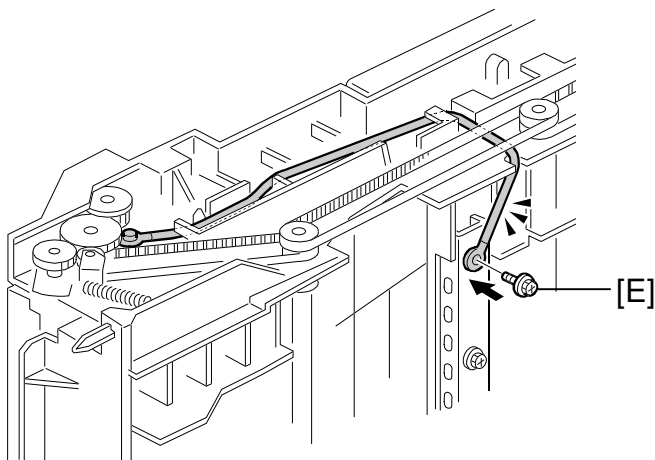
Note: The following action should be taken when a paper jam occurs at the bridge unit.



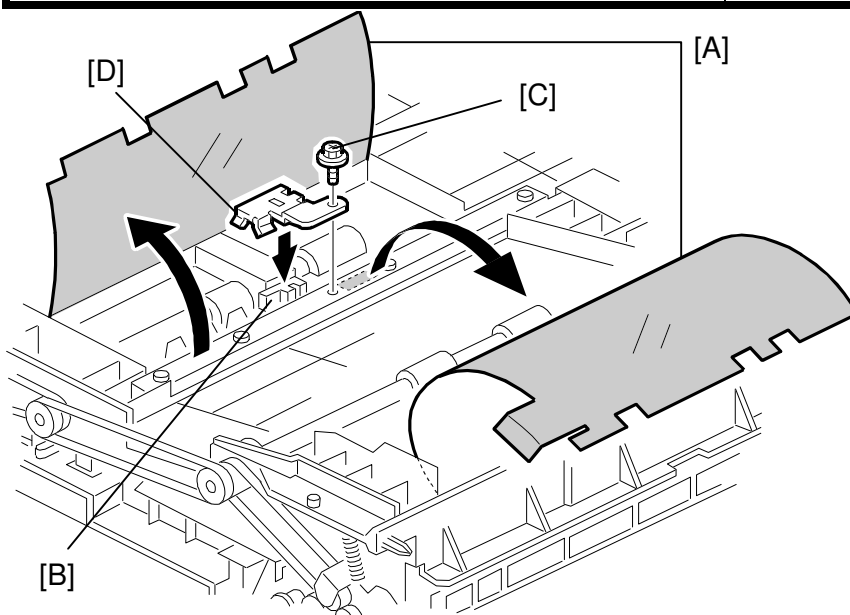
1. Remove the bridge unit. Remove the small cover of the drive section [A] (1 screw).
2. Remove the two gears [B] and screw [C].
3. Secure the new wire [D] (A2845510) with the screw [C].

**Note:** Make sure that the wire does not touch the gear.

4. Attach the two gears and the small cover. Take up any slack while routing the wire.



5. Route the wire under the drive belt as shown in the illustration, taking up any slack.
6. Secure the other end of the wire with the screw [E] that secures the stay.



7. Peel off the 2 strips of mylar [A] attached to the stay, as shown in the illustration.
8. Peel off the two-sided tape remaining on the stay (approximately 4 cm total, centered around the sensor [B]).
9. Remove the screw [C] (securing the stay) that is closest to the sensor.
10. Place the new plate spring [D] (A6883914) over the sensor, return the mylar and fasten with the screw removed in step 9.

**Note:** Since the possibility of roller slipping still remains, clean the three transport rollers with alcohol or a damp cloth.

Model: NAD 30S/30/40		Date: 30-Sep-99	No.: RA230046
Subject: Paper Jam at the Hot Roller Strippers		Prepared by: M. Kitajima	
From: Technical Service 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**

Paper gets caught on the tip of the hot roller stripper.

**CAUSE**

A mixture of toner and paper dust accumulates on the tip of the hot roller stripper. Eventually a gap is created between the stripper and hot roller. As a result, the copied paper is not separated by the stripper properly, causing a fusing unit jam.

**SOLUTION**

- Clean the hot roller stripper with water or alcohol.
- If the stripper is damaged, replace it.
- Check to see if the stripper spring is deformed. Replace it if necessary.

Model: NAD 30S/30/40		Date: 15-Oct-99	No.: RA230047
Subject: Printer Controller Firmware		Prepared by: E. Fukuyama	
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 (      )		

The firmware for the type 450E controller board has been updated. Although the new version (1.82) has already been posted on the SERES DB, the details of a symptom mentioned below were not included in the update history at the time the firmware was released. This RTB has therefore been issued to inform you of these details. Please refer to #7 in the table below for a description of the symptom.

## Printer Controller Software Release Note

Software Version: 1.82

The following symptoms have been remedied:

No,	Title	Details of Errors
1.	Eurofont	Addition of Eurofont
2.	Output Tray	Paper not exiting to the external tray.
3.	Abnormal image	An abnormal image occurs when a captured file is sent (resulting in SC2002).
4	The printer stalls	The printer stalls after paper jam status has been cleared.
5.	Output tray	Paper does not exit to the output tray that has been selected at the operation panel.
6.	Part of the image is lost	Part of the image is lost when printing out multiple copies of a one-page Microsoft Word document (using "rotate sort").
7.	"Please Wait" condition occurs when the PT300 right door is opened.	The "Please Wait" display remains even if the door is closed. It is then necessary to open and close the front or right door of the mainframe to clear the condition.

Model: NAD 30S/30/40		Date: 15-Oct-99	No.: RA230048
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

The following is an announcement of the BICU board firmware modification. Version 14.2 was never actually used in mass-produced machines, as version 14.3 was developed and released before the beginning of mass-production. Therefore, the software upgrade for machines in production has taken the form of ver14.1 to ver 14.3 (which has already been implemented).

## 1. Software Version: 14.2

Affected Program Numbers:

Program Number	Contained Languages:
A2325113S	US English (US), French (F), Spanish (E) – NA
A2325114R	UK English (GB), French (F), German (D) – EU
A2325116K	UK English (GB), Simplified Chines (HK) – China
A2325117K	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152J	UK English (GB), Spanish (E), Italian (I)
A2325153J	UK English (GB), French (F), Dutch (NL)
A2325154J	UK English (GB), Swedish (S), Norwegian (N)
A2325155J	UK English (GB), Danish (DK), Finnish (FIN)
A2325156J	UK English (GB), Spanish (E), Portuguese (P)
A2325157J	UK English (GB), Polish (PL), Hungarian (H)
A2325158J	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40

Date: 15-Oct-99

No.: RA230048

## [Corrections]

No,	Title	Errors corrected by modified software:
1	Toner collected too quickly into the toner collection bottle.	The toner collection bottle becomes full, causing toner to spill out. <u>Countermeasure:</u> Shortening of the time that the transfer belt is in contact with the drum.
2.	SP5920	The default value for recovery time from low-power mode has been changed from 30 to 20 s (machine temp. 145 to 157 C). Since recovery starts at a higher temperature with this setting, it provides the machine more leeway in reaching the ready status temperature on time.  <u>Countermeasure:</u> Change in the default value from 30 to 20 s.
3	SC542	Occasional occurrence of SC542 after the power is turned on in cold conditions. <u>Countermeasure:</u> Change in the fusing temperature detection timing. <i>35 CPM machines: from 125 to 135 s.</i> <i>45 CPM machines: from 125 to 145 s.</i>

The following refers to machines for Taiwan and China only:

No,	Title	Errors corrected by modified software:
1	Error with "ONLINE" display characters	Abnormal display of characters for the word "ONLINE" (operation panel). <u>Countermeasure:</u> Addition of a font for the display of "ONLINE".
2.	Font in machines for Taiwan	Abnormal display of Chinese characters. <u>Countermeasure:</u> Font specification change.

Model: NAD 30S/30/40		Date: 31-Oct-99	No.: RA230049
Subject: PCU seals replacement procedure		Prepared by: E. Fukuyama	
From: Technical Service 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 (      )		

The following have been registered as service parts. This was announced in MB MA230031.

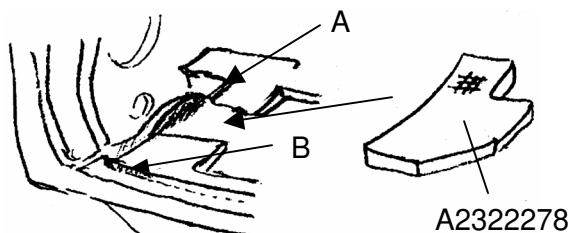
If the seals are not attached properly, it is possible for small gaps to be created. Since this would allow toner to leak out, please make sure to attach the seals in the proper position and orientation.

Replacement parts:

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
-	A2322277	Seal – Drum –Front	1	-	37	32	
-	A2322278	Seal – Drum – Rear	1	-	37	33	
-	A2322350	Seal – Entrance	2	-	37	34	
	A2322399	Seal – Blade 13X9.5X3	2	-	37	35	
-	A2322348	Seal – Blade 12X7X3	2	-	37	36	

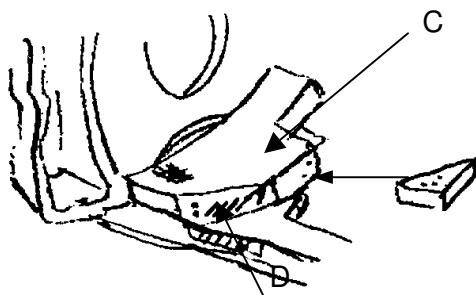
Replacement procedure:

1. Remove the seal and use alcohol to clean the surface to which the seal will be attached.
2. Attach seals to both the front and rear of the drum (A2322277, A2322278), as shown in the illustration below. Please note that the surface to which the seal will be attached is curved. It is therefore necessary to reconfirm that the entire seal is firmly attached.



	Area "A"	Area "B"
Target:	No gap	No gap
Acceptable gap:	0 to 0.5 mm	0 to 0.3 mm

3. Attach the entrance seal (A2322350) in between the seal attached in step 2 above and the frame.



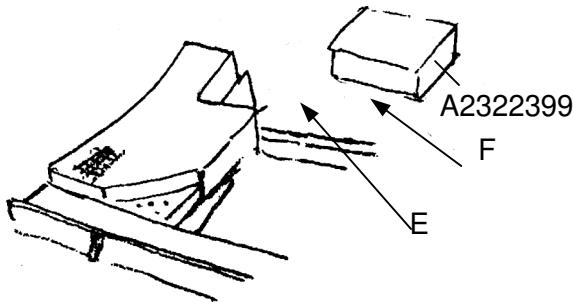
	Area "C"	Area "D"
Target:	No gap	No gap
Acceptable gap:	0 to 0.5 mm	0 to 0.5 mm

Model: NAD 30S/30/40

Date: 31-Oct-99

No.: RA230049

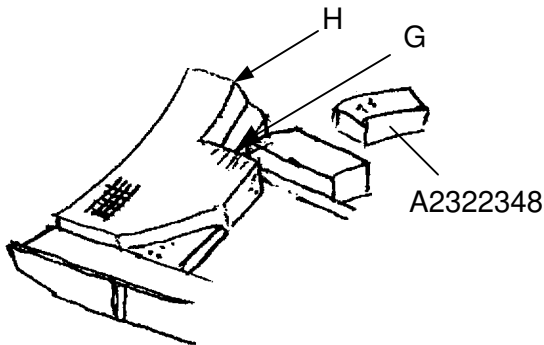
4. Line up the blade seal (A2322399) flush against both surfaces of the frame and attach it as shown in the illustration.



	Area "E"	Area "F"
Target	No gap	No gap
Acceptable gap	0 to 0.5 mm	0 to 0.5 mm

5. Attach the seal (A2322348) to the frame on top of the seal attached in step 4 above.

Please make sure to first line the seal up flush against the two surfaces of the frame (as in step 4).



	Area "G"	Area "H"
Target	No gap	No gap
Acceptable gap	0 to 0.5 mm	0 to 0.5 mm

Model: NAD 30S/30/40(1000 Finisher)		Date: 30-Nov-99	No.: RA230050
Subject: Software Replacement Information		Prepared by: E. Fukuyama	
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 (       )		

Below please find the modification history for the main board up to suffix K for the 1000-sheet finisher.

**A6815103F**

1. Stapled paper did not stack straight.

**A6815103G**

1. The jam detection timing has been changed so that the finisher can also be used with the Russian. This will have no effect on the NAD.

**A6815103H**

1. The mainframe freezes up during jam recovery. The frequency of occurrence is extremely low.
2. The user cancels the staple job when there is only one sheet in the staple tray, and the sheet is automatically removed from the tray. A paper jam occurs when the next sheet is fed for stapling.

**A6815103J**

1. A jam occurs when the door is opened during a staple job.
2. After the power is turned on, the machine reaches copy ready status even though the shift tray lower limit sensor is on (and the stack is full). A jam occurs if a copy job is started.

**A6815103K**

1. Paper jam due to an error in the vertical movement of the tray.

Model: NAD 30S/30/40		Date: 15-Dec-99	No.: RA230051
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

The BICU firmware update has been applied to machines in production.

## 1. Software Version: 14.4

Affected Program Numbers:

Program Number	Contained Languages
A2325113V	US English (US), French (F), Spanish (E) – NA
A2325114T	UK English (GB), French (F), German (D) – EU
A2325116M	UK English (GB), Simplified Chines (HK) – China
A2325117M	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152L	UK English (GB), Spanish (E), Italian (I)
A2325153L	UK English (GB), French (F), Dutch (NL)
A2325154L	UK English (GB), Swedish (S), Norwegian (N)
A2325155L	UK English (GB), Danish (DK), Finnish (FIN)
A2325156L	UK English (GB), Spanish (E), Portuguese (P)
A2325157L	UK English (GB), Polish (PL), Hungarian (H)
A2325158L	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40

Date: 15-Dec-99

No.: RA230051

## Corrections

No,	Title	Errors corrected by modified software:
1	SC321	In machines without the Image Enhancement Kit, the following can occur after the paper end condition is reached: - The machine waits for the next sheet of paper to be fed from the tray. - SC321.
2.	SC990	Occurrence conditions of SC990. 1. No hard disk installed. 2. F/W ver 14.3 installed. 3. Duplex mode. 4. Put the original on exposure glass and press Start. 5. Set the original in the ADF and press Start.
3	Indicated "Original is set on glass..."	After making a copy off the glass, no copies can be made using the DF. "Original is left on glass...Remove original" is displayed when an original is set in the DF.
4	German displayed on Dutch panel display.	Some parts of the "Adjust Image" screen text are displayed in German even though Dutch has been set as the display language.
5	English displayed on Spanish panel display.	Some parts of the "Adjust Image" screen text are displayed in English even though Spanish has been set as the display language.

Model: NAD 30S/30/40(3000 Finisher)		Date: 15-Dec-99	No.: RA230052
Subject: Software Replacement Information for SR730		Prepared by: E. Fukuyama	
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 (       )		

Below please find the modification to the main board for the SR730 (3000 Finisher).

The ROM part number is A6975656E.

1. With domestic NADs and other similar machines which have a fax option installed:  
When receiving a fax while in Energy Saver Mode, the SR730 power comes on and the initial checks are performed.

2. In order to correct paper stacking problems that occur with curled paper, the software has been modified so that the tray will move up and down slightly while the stapler is waiting for the remaining page/s of a given staple set.

This slight shaking from the tray will tend to pull in any paper that slides out from the stack.

Reissued: 21-Mar-00

Model: NAD 30S/30/40	Date: 03-Feb-00	No.: RA230053a
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## RTB Correction

The items in bold italics have been corrected or added.

Subject: NAD NIB HISTORY		Prepared by: K. Ugaeri	
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 type="checkbox"/> Service manual revision <input checked="" type="checkbox"/> Retrofit information

Firmware history for the NAD30/40 NIB Option.

Firmware	File No.	Version	Production
Ric231a.upd	V231.zip	2.31a	1st Mass Prod.
Ric235b.upd	V235b.zip	2.35b	<b><i>August Prod. '99</i></b>
Ric238a.upd	V238a.zip	2.38a	October Prod.'99

Symptom Corrected	Version
No log on to NDS for Novell 4.11	2.38a
<b><i>The CIDR (Classless Inter – Domain Routing) feature is supported.</i></b>	
When a reset is required in SNMP, the NIB will reset without any response and hang up.	2.35b

\* Version 2.40 was temporary released in a Field Problem Report. This is not officially released due to its side effects. Do not use this version in the filed.

Model: NAD 30S/30/40

Date: 03-Feb-00

No.: RA230053

A2915582	A891-01
E	H0290600008~
<b>F</b>	<b>H2090800001~</b>
<b>G</b>	<b>H2091100001~</b>

A2915584	A891-02
D	H2090600008~
E	H2090700025~
<b>F</b>	<b>H2090900486~</b>
<b>G</b>	<b>No production</b>
<b>H</b>	<b>TBA</b>

A2915585	A891-02
	<b>H2090900486~</b>
<b>A</b>	<b>No production</b>
<b>B</b>	<b>TBA</b>

A2915586	A891-02
	<b>H2090900486~</b>
<b>A</b>	<b>No production</b>
<b>B</b>	<b>TBA</b>

A2915587	A891-03
	<b>H2090601551~</b>
<b>A</b>	<b>TBA</b>

Model: NAD 30S/30/40 (Fax Option)		Date: 15-Mar-00	No.: RA230054
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

The following is the modification history for firmware versions 10.00, 11.00 and 12.00.

Software Version: 12.00

Program Number:

A2335581G (NA)	A2335592F (EU4)
A2335597F (China)	A2335593F (EU5)
A2335584F (Taiwan)	A2335594F (EU6)
A2335582J (EU1)	A2335595F (EU7)
A2335590F (EU2)	A2335596F (EU8)
A2335591F (EU3)	

- Corrections Version10.00 -

No,	Title	Details of Errors
1	Cannot print out incoming fax.	Even if only one of the output trays has not been set properly, it is not possible to print out an incoming fax to any tray.
2.	System Switch	The default for System Switch 0A (Germany) has been changed from 00H to 30H.

- Corrections Version11.00 -

1	Print end buzzer	If fax printout and communication finish at the same time when using Direct Receive, the print end buzzer does not turn off.
2	SC101 does not stop transmission	Transmission is not stopped even if SC101 occurs.

- Corrections Version12.00 -

1	Duplex Print	Page order is reversed in duplex mode if the page memory unit has not been installed (2/1, 4/3). The specifications have been changed so that the order will be 1/2, 3/4 (this is correct). As part of this modification, the default for Printer Switch 0F bit 5 has been changed to 1.
2	FCC Standards (86)	The following modification was made to comply with the changes made to FCC standards (86) and applies only to A2335581G: 1. The default for communication switch 10 has been changed to 02H. 2. The default for communication switch 12 has been changed to 0AH.

Model: NAD 30S/30/40		Date: 12-Apr-00	No.: RA230055
Subject: ADF and Finisher Connectors		Prepared by: E. Fukuyama	
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 (      )		

During production inspections at the RPL factory, it was discovered that the grounding pins of some ADF and finisher connectors were pushed in. All machines in stock at RPL at the time were checked and the connectors replaced. However, it is possible that machines already released from the factory contain these faulty connectors.

At installation, please check the grounding pins of both connectors. If the pins are pushed-in or misaligned, please return them to the proper position.

The machines that may contain the faulty connectors are listed below. These connectors have already been replaced in machines with serial numbers not mentioned here.

Model Code:

A230-52, 56, 57

A231-52, 56, 57

A232-52, 56, 57

MODEL NAME	CODE	SERIAL NUMBER
Gestetner 3235S, nashuatec D435S, Rex-Rotaly 2835S	A230-52	AQ10230001
Infotec 4351MF	A230-56	3Q12300001
Ricoh Aficio340	A230-57	A76802220001
Gestetner 3235, nashuatec D435, Rex Rotaly 2835	A231-52	AQ302300001
Infotec 4352 MF	A231-56	3Q22200001
Ricoh Aficio350	A231-57	A76902300001
Gestetner 3245, nashuatec D445, Rex-Rotaly 2845	A232-52	AQ502300001
Infotec 4451 MF	A232-56	3Q32200001
Ricoh Aficio450	A232-57	A7700220506

Description:

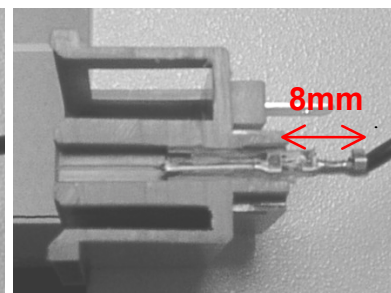
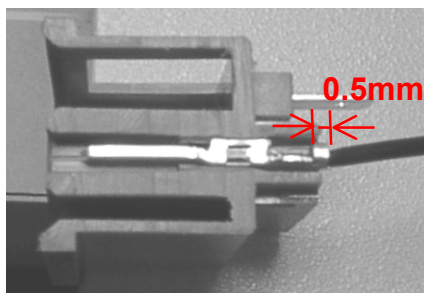
During production, specialized connectors are used to connect the ADF and finisher harnesses to the mainframe. It was confirmed that these connectors were slightly deformed, causing the grounding pins to be pushed in. If the connector is repeatedly inserted and pulled out, the pin will be pushed further inside and will start to come out the other end (0.5 to 8 mm). However, this does not result in any abnormal machine operation.

Model: NAD 30S/30/40

Date: 12-Apr-00

No.: RA230055

Through vibration tests, it was confirmed that the pin does not separate from the ADF or finisher connectors. However, although the probability is extremely low, it is possible that the pin could separate from the connector, fall onto the lamp stabilizer and cause a short circuit. We have confirmed that even if this were to happen, there would be no damage to any components or lamp stabilizer circuits. The exposure lamp would remain on and/or SC101 would occur.



## Mainframe wiring

	A: Grounding pin	B: Shield line	C: Signal Line
ADF	Connected to outer frame of mainframe	Connected to outer frame of mainframe	GND line present
Finisher	Connected to outer frame of mainframe	Not connected to outer frame of mainframe	GND line present

In addition, lamp stabilizer circuit malfunctions do not occur because there is a grounding line connected to the signal line [C].

We have also confirmed that even if the grounding pin is not properly connected, there are no machine malfunctions or abnormal operations caused by static electricity.

Model: NAD 30S/30/40(3000 Finisher)		Date: 14-Apr-00	No.: RA230056
Subject: Software Replacement Information for SR730		Prepared by: E. Fukuyama	
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 (      )		

Below please find the modification of the main Board for the SR730 (3000 Finisher).

The ROM part number is A6975656F.

1. When the Mail Box was connected, the main engine was not able to recognize the SR730.

Model: NAD 30S/30/40		Date: 14-Apr-00	No.: RA230057
Subject: Software Update Mail Box CS360		Prepared by: A. Sasaki	
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 (      )		

## 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: NAD 30S/30/40 (DF67)		Date: 17-Apr-00	No.: RA230058
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

Below please find the modification history from the first production for the Main Board up to Suffix J for the DF67.

## Corrections Version D

No,	Details of Errors
1	Stamp not possible during a free run.
2.	After modification, the machine will use the maximum value for the registration adjustment if the command received is above the maximum.
3.	Noise occurs when the motor is stopped.
4.	If paper is fed from the bypass tray following jam recovery, the clutch remains on after the job is completed.

## Corrections Version E

1.	A job stops while copying an original set on the exposure glass.
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## Corrections Version F

1.	If the left cover has not been completely shut, the output of the feed cover sensor fluctuates and the DF continuously repeats initial warm-up.
2.	The machine sometimes does not detect the size of the original when sending a fax.
3.	If a jam occurs in duplex mode, it is not possible to clear the job even after the jam itself has been cleared.
4.	When punch holes in the original pass the exit sensor, the sensor mistakenly interprets this as the trailing edge. This causes a jam to occur.

## Corrections Version G

1.	If a business card or other small-sized original is left on the exposure glass, the machine will allow ADF feed since the small original is not detected. At the next ADF feed, a jam occurs and the original is not fed out normally. The machine does not detect the jam and displays 'Copy in progress' until the jammed original is removed.
----	--

## Corrections Version H

1.	If a jam occurs at the exit area when the ADF upper tray has been selected, the copier displays 'Copy in progress' even if the jam itself is cleared and the Start button is pressed. As a result, the next original cannot be fed.
----	---

## Corrections Version J

1.	If an odd number of copies has been selected for a scanning job (1,3,5...) or the job is cancelled from within a scanner application, the original is not fed out normally.
----	---

Model: NAD 30S/30/40		Date: 17-Apr-00	No.: RA230059
Subject: BICU FW 14.5		Prepared by: E. Fukuyama	
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 (      )		

The latest version of the BICU software (14.5) has been released and will be applied at the production line.

## 1. Software Version: 14.5

Affected Program Numbers:

Program Number	Contained Languages
A2325113W	US English (US), French (F), Spanish (E) – NA
A2325114V	UK English (GB), French (F), German (D) – EU
A2325116N	UK English (GB), Simplified Chinese (HK) – China
A2325117N	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152M	UK English (GB), Spanish (E), Italian (I)
A2325153M	UK English (GB), French (F), Dutch (NL)
A2325154M	UK English (GB), Swedish (S), Norwegian (N)
A2325155M	UK English (GB), Danish (DK), Finnish (FIN)
A2325156M	UK English (GB), Spanish (E), Portuguese (P)
A2325157M	UK English (GB), Polish (PL), Hungarian (H)
A2325158M	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40

Date: 17-Apr-00

No.: RA230059

## Corrections

No,	Title	Errors corrected by modified software:
1	SC990/542 simultaneous occurrence	Just after the main power switch is turned on or when the machine recovers from Energy Saver mode, SC990 (followed by SC542) occurs before the target fusing temperature is reached.
2.	Mailbox not recognized by the machine.	When the mailbox has been selected as the output tray when the machine recovers from Energy Saver mode, a jam occurs at the mailbox entrance. This is because the mailbox is not recognized by the mainframe.
3	SC546	The thermistor output is unstable when the main power is turned on or the machine recovers from Energy Saver mode in a low-temperature environment. This causes SC546 to occur.
4	SC990	SC990 occurs when a printing job is cancelled at a certain point during the job.

Model: NAD 30S/30/40		Date: 18-Apr-00	No.: RA230060
Subject: Shield - Development Sleeve		Prepared by: E. Fukuyama	
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

A toner band develops on the rear side of the drum, outside the image area. This toner band causes the transfer belt assembly to overfill on the rear side and leak toner into the registration and vertical feed areas.

## Cause

The edge of the development unit seal contacts the drum surface, causing drum wear.

## Occurrence process:

1. The edge of the development unit seal contacts the drum, causing wear on the drum surface. As a result, extra toner sticks to this part of the drum surface.
2. This toner then accumulates on the charge roller cleaning pad.
3. The toner on the cleaning pad then sticks to the charge roller, expanding in width and forming a thin film on the roller surface.
4. The electric potential decreases in the area on the charge roller surface where the toner film has formed. A 'belt' of toner is then transferred to the drum.
5. This toner belt layer is then transferred to the surface of the transfer belt. This toner gradually builds up on the belt surface, and the transfer belt unit cannot properly remove it for collection. Eventually, the accumulated toner falls off the belt surface and drops toward the rear of the machine.

## Countermeasure

The thickness of the development unit seal has been reduced from 0.2 to 0.1 mm. In addition, the seal itself has been made softer and more flexible. This modification will prevent the seal from contacting the drum and causing wear on the drum surface. Please note that only the suffix has changed. The P/N itself remains the same.

Old part number	New part number	Description	Q'ty	Int	Page	Index
A2323132	A2323132	Rear Shield – Development Sleeve	1-1	X/O	45	8
A2323131	A2323131	Front Shield –Development Sleeve	1-1	X/O	45	10

Model: NAD 30S/30/40

Date: 18-Apr-00

No.: RA230060

## Cut-in serial numbers

MODEL NAME	V/Hz	DESTINATION	RAI PRODUCTION	
			CODE	SERIAL NUMBER
Gestetner 3235s Savin 9935D	115/60	USA, Canada,	A230-10	1B8084XXXX
Ricoh Aficio340	115/60	USA, Canada	A230-17	A768084XXXX
Ricoh Aficio340	115/60	Taiwan	A230-19	A7680830010
Gestetner 3235S nashuatec D435S Rex-Rotaly 2835S	220/50	Europe, etc.	A230-22	AQ10740001
Infotec 4351MF	220/50	Europe, Australia	A230-26	3Q18390001
Ricoh Aficio340	220/50	Europe, etc.	A230-27	A768084XXXX
Ricoh Aficio340	220/50,60	Asia	A230-39	A7680830042
Lanier 5135	110/60	USA, Canada	A230-55	L513084XXXX
Lanier 5134	220/50	Europe, Australia	A230-65	L513084XXXX
Ricoh Aficio340	220/50	China	A230-69	A768084XXXX
Gestetner 3235 Savin 9935DP	115/60	USA, Canada,	A231-10	1B90830001
Ricoh Aficio350	115/60	USA, Canada	A231-17	A769084XXXX
Ricoh Aficio350	110/60	Taiwan	A231-19	A769084XXXX
Gestetner 3235 nashuatec D435 Rex Rotaly 2835	220/50	Europe, etc.	A231-22	AQ3084XXXX
Infotec 4352 MF	220/50	Europe, Australia	A231-26	3Q2840XXXX
Ricoh Aficio350	220/50	Europe, etc.	A231-27	A7690830001
Ricoh Aficio350	220/50,60	Asia	A231-39	A7690830225
Lanier 5235	115/60	USA, Canada	A231-55	L523084XXXX
Lanier 5235	220/50	Europe, Australia	A231-65	L52308300001
Ricoh Aficio350	220/50	China	A231-69	A7690830221
Gestetner 3245 Savin 9945DP	115/60	USA, Canada,	A232-10	2B10830001
Ricoh Aficio450	115/60	USA, Canada	A232-17	A770084XXXX
Ricoh Aficio450	110/60	Taiwan	A232-19	A7700830139
Gestetner 3245 nashuatec D445 Rex-Rotaly 2845	220/50	Europe, etc.	A232-22	AQ5084XXXX
Infotec 4451 MF	220/50	Europe, Australia	A232-26	3Q3840XXXX
Ricoh Aficio450	220/50	Europe, etc.	A232-27	A7700830088
Ricoh Aficio450	220/50,60	Asia	A232-39	A7700830179
Lanier 5245	115/60	USA, Canada	A232-55	L524084XXXX
Lanier 5245	220/50	Europe, Australia	A232-65	L5240830001
Ricoh Aficio450	220/50	China	A232-69	A770084XXXX

**Model: NAD 30S/30/40**
**Date: 18-Apr-00**
**No.: RA230060**

			RPL PRODUCTION	
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Gestetner 3235S nashuatec D435S Savin 2835D	220/50	Europe, etc.	A230-52	AQ1829XXXX
Infotec 4351MF	220/50	Europe, Australia	A230-56	3Q1329XXXX
Ricoh Aficio340	220/50	Europe, etc.	A230-57	A768022XXXX
Gestetner 3235 nashuatec D435 Rex-Rotaly 2835	220/50	Europe, etc.	A231-52	AQ30230083
Infotec 4352MF	220/50	Europe, Australia	A231-56	3Q22200187
Ricoh Aficio350	220/50	Europe, etc.	A231-57	A769023XXXX
Gestetner 3245 nashuatec D445 Rex-Rotaly 2845	220/50	Europe, etc	A232-52	AQ50230001
Infotec 4451MF	220/50	Europe, Australia	A232-56	3Q3220XXXX
Ricoh Aficio450	220/50	Europe	A232-57	A770022XXXX

Model: NAD 30S/30/40		Date: 20-Apr-00	No.: RA230061
Subject: Toner Scattering		Prepared by: M. Kitajima	
From: Technical Service 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

- Dirty background on copies/prints
- Non-feed paper jam

## CAUSE

A high toner concentration in the developer leads to toner scattering. In addition to dirty background, this causes the paper feed roller to become dirty. As a result, the paper is not fed smoothly by the roller and it jams.

## SOLUTION

Lower the image density if it is high.

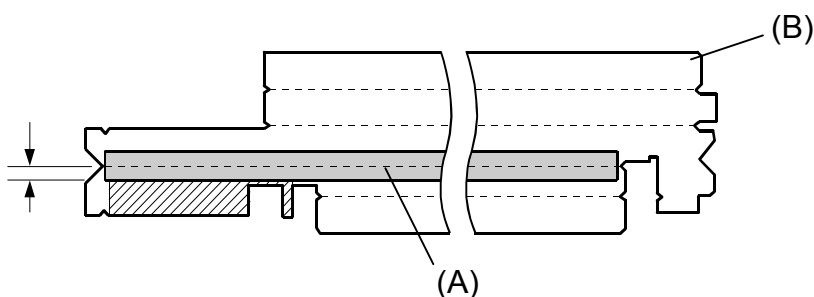
If it is not high, attach the Lower Guide Mylar (A2309103). The procedure is as follows:

Part number: A2309103

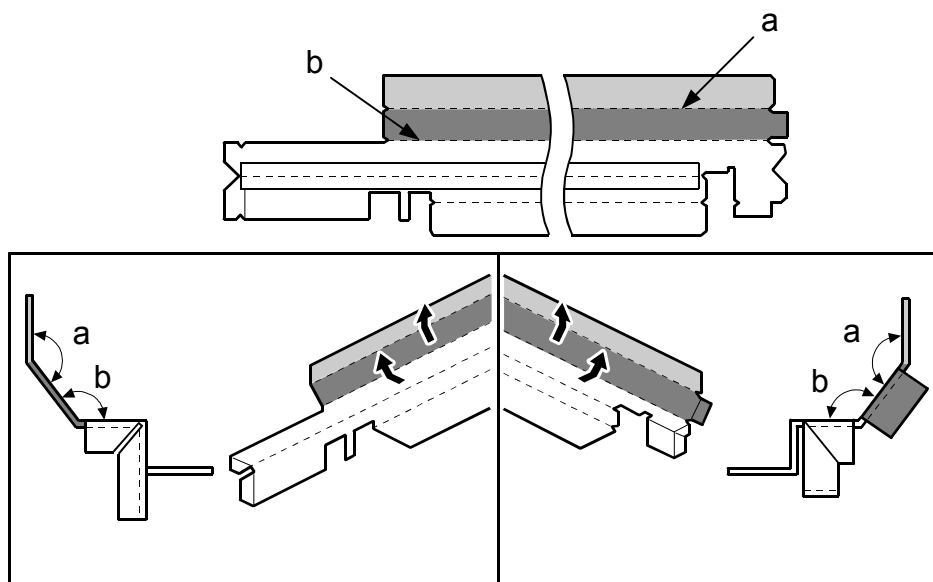
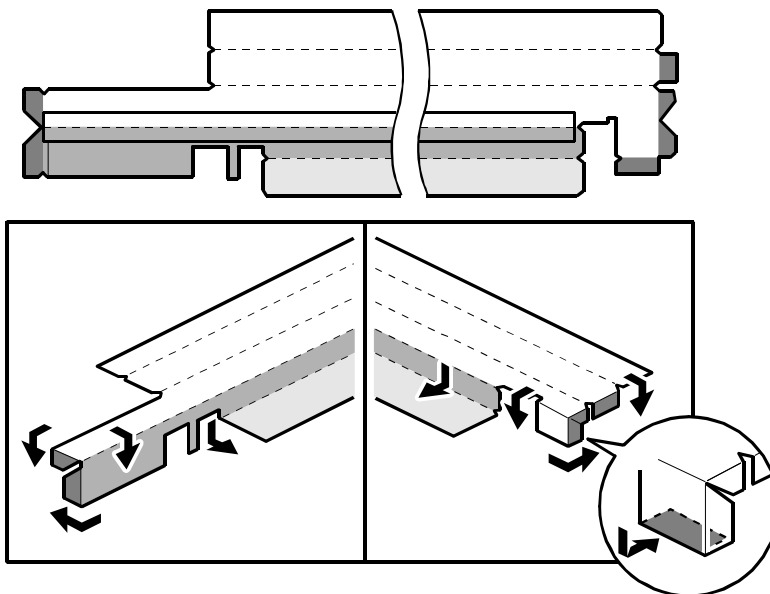
Description: Lower Guide Mylar – Development

Component parts: Mylar (1 sheet), Sponge (2 pcs), Tape (1 sheet)

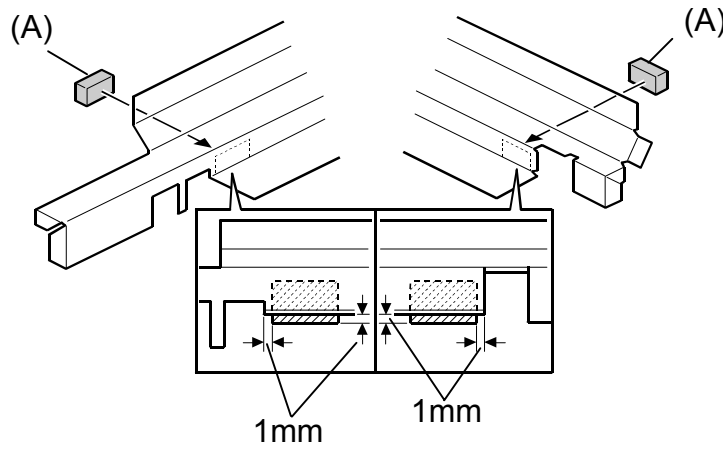
1. Attach the accessory tape (A) to the mylar (B).



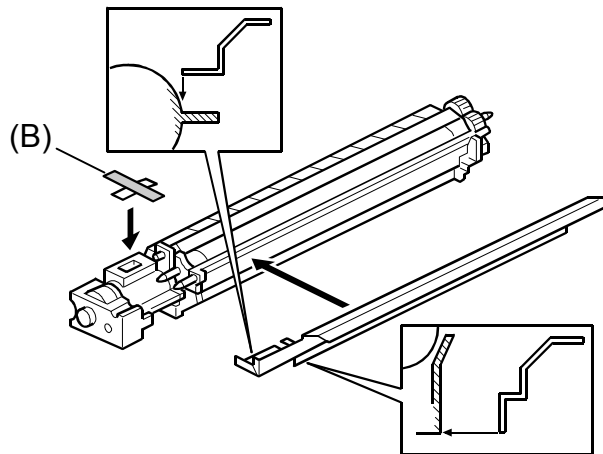
2. Fold the mylar as shown in the illustration below.  
Fold angles (approx.):  
a = 140 degrees, b = 130 degrees, others = 90 degrees.



3. Attach the 2 sponges (A) to the mylar as shown in the illustration below.



4. Remove the development unit.
5. Cover the recycled toner inlet temporarily with tape (B) as shown below.
6. Attach the mylar modified in step 3 to the development unit.  
Note: First clean the attachment surface with alcohol or a damp cloth.



Reissued: 19-May-00

Model: NAD 30S/30/40	Date: 01-May-00	No.: RA230062b
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## RTB Correction

The items in bold italics have been corrected or added.

Subject: Seals - Development Sleeve Replacement Procedure		Prepared by: E. Fukuyama	
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 (      )		

The new Front and Rear shield – Development Sleeve were announced in a previous RTB RA230060.

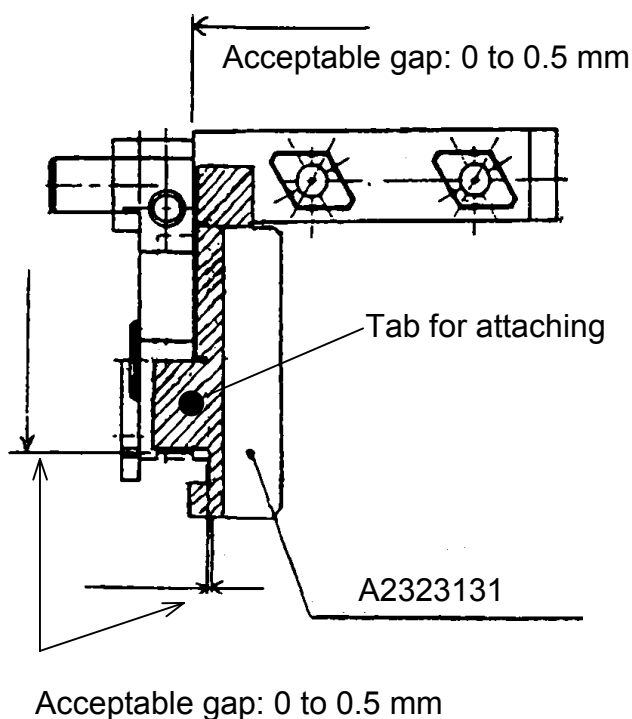
If the seals are not attached properly, it is possible for small gaps to be created. Since this would allow toner to leak out, please make sure to attach the seals in the proper position and orientation.

Replacement parts:

Part number	Description	Q'ty	Page	Index	Note
<b>A2323131</b>	Front Shield – Development Sleeve	1	45	10	
<b>A2323132</b>	Rear Shield – Development Sleeve	1	45	8	

Replacement procedure:

1. Remove the seal and clean with alcohol the surface to which the seal will be attached.
2. Attach seals to both the front and rear of the Development Roller Ass'y (A2323131, A2323132), as shown in the illustration below.



Model: NAD 30S/30/40		Date: 17-Oct-00	No.: RA230063
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

The latest version of the BICU software (14.6) has been released and will be applied to the production line.

## 1. Software Version: 14.6

Affected Program Numbers:

Program Number	Contained Languages
A2325113X	US English (US), French (F), Spanish (E) – NA
A2325114W	UK English (GB), French (F), German (D) – EU
A2325116P	UK English (GB), Simplified Chinese (HK) – China
A2325117P	UK English (GB), Traditional Chinese (CHI) – Taiwan
A2325152N	UK English (GB), Spanish (E), Italian (I)
A2325153N	UK English (GB), French (F), Dutch (NL)
A2325154N	UK English (GB), Swedish (S), Norwegian (N)
A2325155N	UK English (GB), Danish (DK), Finnish (FIN)
A2325156N	UK English (GB), Spanish (E), Portuguese (P)
A2325157N	UK English (GB), Polish (PL), Hungarian (H)
A2325158N	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40

Date: 17-Oct-00

No.: RA230063

## Corrections

No,	Title	Errors corrected by the modified software:
1	SP Mode Displays	The following SP mode displays have been changed: "Serviceman" → "Service". "Salesman" → "Sales".
2.	Image error	In the following 2 cases, the leftover page of a 2 in 1 or 4 in 1 job (which should be blank) contains part of the image data of the previous page.  Case 1: SIMM Memory (8MB) not installed Paper size is B4 or larger 2 in 1 Vertical original transport An odd number of originals  Case 2: SIMM Memory (8MB) not installed Paper size is B4 or larger 4 in 1 Vertical original transport The number of originals is a multiple of 4
3	SC350-3	The following occurrences of SC350-3 have been corrected: *After SP2210 is set to 1, and two sheets are individually set and fed from the bypass tray.  *After SP2210 is set to 2 or 3. SC occurs at the 4 <sup>th</sup> and 6 <sup>th</sup> sheets, respectively.
4	LCD Display Language Error	One line of an SC message was displayed in German, even though the set display language was French.

Reissued: 12-Dec-00

Model: NAD 30S/30/40	Date: 08-Dec-00	No.: RA230064a
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## RTB Correction

The items in bold italics have been corrected or added.

Subject: Software Release Information		Prepared by: E. Fukuyama	
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

Printer firmware history for the NAD30S/30/40.

For Other Models

A8505280	Version	C. SUM
F	1.82	6CAF
G	1.83	368E
H	1.93	6DF0
J	1.97	1769

For Lanier

<b><i>A8505283</i></b>	Version	C. SUM
D	1.82	6CAF
E	1.83	368E
F	1.93	6DF0
G	1.97	1769

Model: NAD 30S/30/40

Date: 08-Dec-00

No.: RA230064

Symptom Corrected	Other models	Lanier
After Danish has been set as the language, extra characters are printed out.	J	G
When the Dazel system is used, there is no job completion notification.	J	G
-With PortNavi, the job completion notification is either printed out but incorrect, or is not printed out at all. -Jobs performed without using registered user codes do not appear on the job history list.	J	G
The machine displays SC365 after some sets of a multi-page document in Word 97 are printed out.	H	F
A paper jam occurs when restarting printing in duplex mode after the machine runs out of paper in the tray.	H	F
The image position being printed using PostScript.	H	F
The data of AppleTalk ZoneName is kept.	G	E
The default setting has been changed from FONTSOURCE="SOFT" to FONTSOURCE="S".	G	E
A PjL command to describe the job name in process has been added.	G	E
Addition of Euro font.	F	D
Paper not exiting to the external tray.	F	D
Abnormal image occurs when a captured file is sent (resulting in SC2002).	F	D
The printer stalls after paper jam status has been cleared.	F	D
Paper does not exit to the output tray that has been selected at the operation panel.	F	D
Part of the image is lost when printing out multiple copies of a one-page Word document (using "rotate sort").	F	D

Model: NAD 30S/30/40		Date: 02-Mar-01	No.: RA230065
Subject: Drum		Prepared by: E. Fukuyama	
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 (      )		

This is to inform you of a factory modification made to improve the efficiency of the OPC drum production process. This process was only used for drums produced in November 2000 (reason below). Although these drums have a slightly different appearance, there is no difference in quality or performance.

#### November 2000 Change:

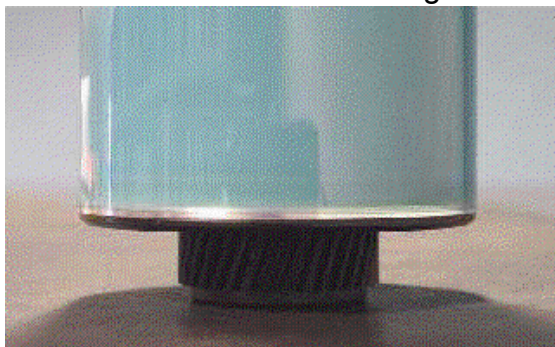
The photo-conductive CGL layer is not applied to an area 14 mm from one end of the drum edge (see photographs below). This area is outside the image writing area. Tests on the prototypes confirmed that there was no change in performance or quality between the two drums, and therefore no effect on image quality.

During November 2000, the efficiency of the new drum production process was reconfirmed. Although there were no quality problems with the drum itself, the process efficiency was not improved as much as previously expected and it was changed back to the previous method in December.

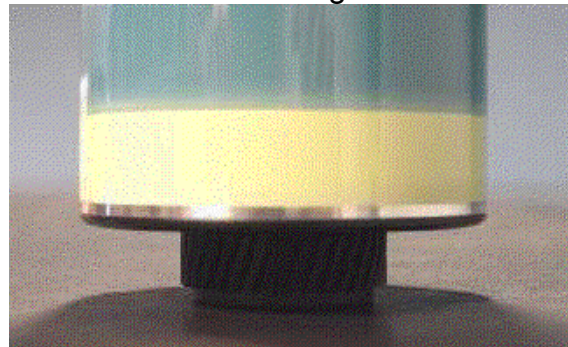
There are a total of 6,251 drums from November production that have been installed in the NAD and the Adonis-C1 N.A. model (RAI produced). However, since these units have already been shipped, the machine serial numbers are not known. The total number of November production drums registered as service parts is 3,866.

The following picture can be used to visually distinguish between drums from November 2000 production and those from before/after:

Before/After Nov '00 Change:



Nov '00 Change:



Model: NAD 30S/30/40		Date: 08-Mar-01	No.: RA230066
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

Printer firmware history for the NAD30S/30/40.  
New items appear in bold italics.

## For Other Models

A8505280	Version	C. SUM
F	1.82	6CAF
G	1.83	368E
H	1.93	6DF0
J	1.97	1769
K	1.98	576D

## For Lanier

A8505255	Version	C. SUM
D	1.82	6CAF
E	1.83	368E
F	1.93	6DF0
G	1.97	1769
H	1.98	576D

Symptom Corrected	Other models	Lanier
<i>When performing a mixed copy job with Letter and Legal paper, the machine does not switch between the trays from an AS400 system.</i>	<b><i>K</i></b>	<b><i>H</i></b>
<i>Grid lines do not appear on MS-Excel originals.</i>	<b><i>K</i></b>	<b><i>H</i></b>
<i>When printing from an SAP application, extra sheets of paper are fed.</i>	<b><i>K</i></b>	<b><i>H</i></b>

Model: NAD 30S/30/40		Date: 08-Mar-01	No.: RA230067
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

Finisher 300 firmware history for the NAD 30S/30/40.

A6975656	Version	C. SUM
G	4.24	9D97
H	4.26	0127

Symptom Corrected	Suffix
The stack height sensor mis-detects the height, which in turn causes the exit motor to stop and a paper jam to occur.	H
Jam codes were not defined for paper jams at or before the entrance sensor.	G

Model: NAD 30S/30/40 DF (DF67)		Date: 23-Mar-01	No.: RA230068
Subject: Multi-sheet feeding		Prepared by: E. Fukuyama	
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

The DF 67 will not completely separate the originals. Multiple sheets feed onto the glass usually cause the DF 67 to jam. In some cases, the DF will not indicate a jam and will continue to feed additional sheets of paper.

## Cause

Multi-sheet feeding occurs when there is a large contact surface area between the feed belt and the separation roller.

## Countermeasure

The contact surface area between the feed belt and separation roller has been reduced by changing the shape of the belt drive roller holder and the pick-up lever.

**Note:** The new holder and pick-up lever must be installed together as a set. This is because, if the new holder (A6801822) is used with the old lever (A6801871), the decreased friction between the roller and paper may cause misfeeds.

Old part number	New part number	Description	Q'ty	Int	Page	Index
A6801821	A6801822	Holder – Belt Drive Roller	1-1	X/O	7	28
A6801871	A6801872	Pick-up Lever	1-1	X/O	7	18

Model: NAD 30S/30/40 Finisher 3000		Date: 05-Oct-01	No.: RA230069
Subject: Software Release Information		Prepared by: E. Fukuyama	
From: Technical Services Dep., 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 (      )		

Software version V4.28 for the 3000-sheet Finisher (SR730) has been released.

Symptom Corrected	Suffix
If a finisher job is initiated from 5 to 105 seconds after the Adonis-P3 recovers from Energy Saver Mode, SC990 or a paper jam occurs.	J

## RCL (Japan) Production

Model Name	V/Hz	Destination	Code	Serial Number
SR 730	115V/50 Hz	USA, Canada	A697-15	1B5XXXXXXX
	230V/60 Hz	USA, Canada, Europe, Asia,	A697-17	A7771090001
	115V/50 Hz	Taiwan, China, etc		
	230V/60 Hz	Europe, Asia	A697-22	AR31080001
	230V/60 Hz	Europe, Australia	A697-26	3R1XXXXXXX
	230V/60 Hz	USA, Canada, Europe,	A697-55	L032XXXXXXX
	115V/50 Hz			

Model: Adonis-C2		Date: 30-Oct-01	No.: RB003026
Subject: Transfer Belt Unit		Prepared by: E. Fukuyama	
From: Technical Service 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

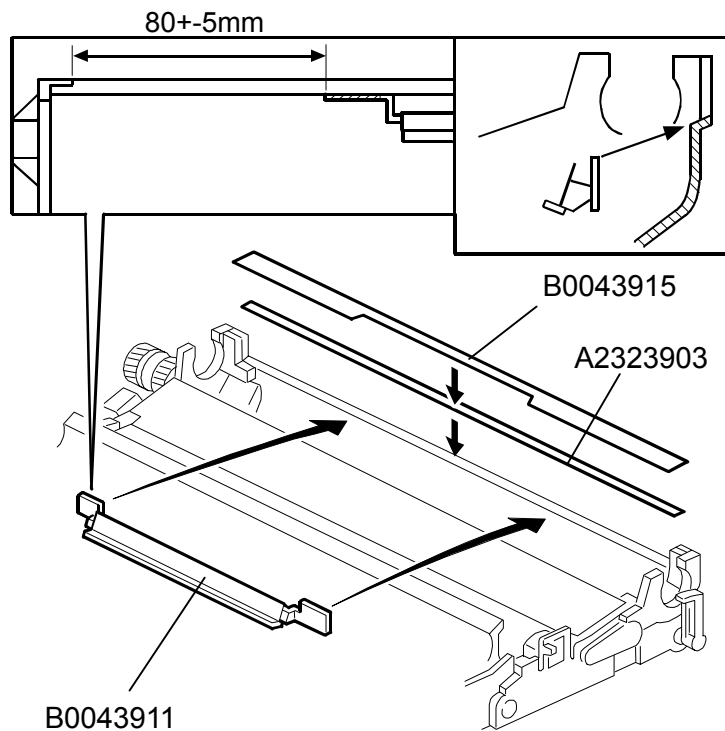
This RTB contains the replacement procedure for the modified parts in MB MA230073, which announced modifications applied to minimize dirtiness on the rear side of copies.

**Note:** There is no double-sided tape attached to the Entrance Mylar (B0043915), so be sure to use the Tape – Entrance Mylar (A2323903) when installing this new Mylar.

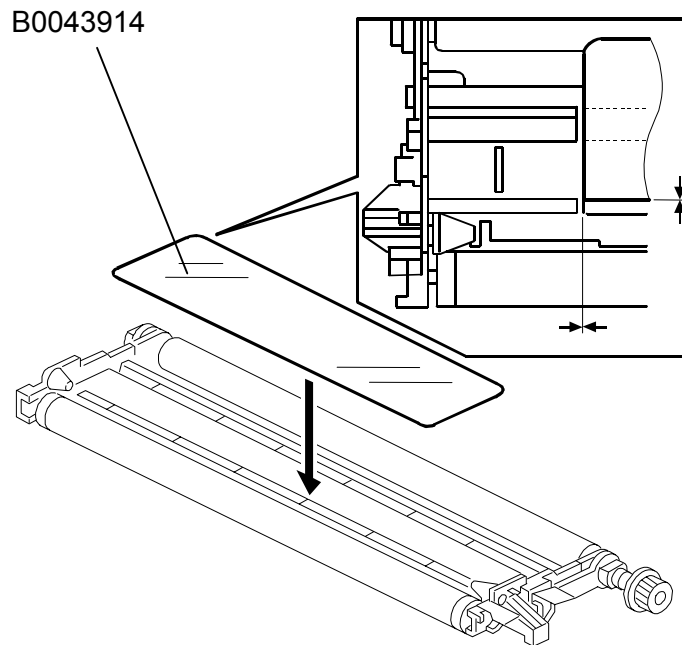
### Installation Procedure

1. Remove the Transfer Unit, then the Transfer Belt and Cleaning Blade.
2. Peel off the old Entrance Mylar, then clean the surface of the attachment area underneath.
3. Clean out the inside of the unit thoroughly.
4. Attach the Remove Paper Dust Mylar (B0043911) as shown in Fig. 1.
5. Attach the Tape – Entrance Mylar (A2323903) and Entrance Mylar (B0043915) as shown in Fig. 1.

**Fig. 1:**



6. Attach the Mylar - Drive Roller Entrance (B0043914) to the Transfer Unit Frame, as shown in Fig. 2.

**Fig. 2:**

7. Reinstall the Transfer Belt and Cleaning Blade.

Model: NAD 30S/30/40		Date: 30-Nov-01	No.: RA230070
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

Printer firmware history for the NAD30S/30/40.  
New items appear in bold italics.

## For Other Models

A8505280	Version	C. SUM
F	1.82	6CAF
G	1.83	368E
H	1.93	6DF0
J	1.97	1769
K	1.98	576D
L	2.01	BC8F

## For Lanier

A8505255	Version	C. SUM
D	1.82	6CAF
E	1.83	368E
F	1.93	6DF0
G	1.97	1769
H	1.98	576D
J	2.01	BC8F

Symptoms Corrected	Other models	Lanier
<i>SmartNetMonitor shows the wrong total counter value.</i>	<i>L</i>	<i>J</i>
<i>The right edge of the image is missing when printing out from the AS400.</i>	<i>L</i>	<i>J</i>
<i>Cannot perform auto conversion for A4/Letter.</i>	<i>L</i>	<i>J</i>

Model: NAD 30S/30/40		Date: 12-Mar-02	No.: RA230071
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

Printer firmware history for the NAD30S/30/40.  
New items appear in ***bold italics***.

For Models Other than Lanier

A8505280	Version	C. SUM
F	1.82	6CAF
G	1.83	368E
H	1.93	6DF0
J	1.97	1769
K	1.98	576D
L	20.1	BC8F
<b><i>M</i></b>	<b><i>2.02</i></b>	<b><i>B89C</i></b>

For Lanier Models

A8505255	Version	C. SUM
D	1.82	6CAF
E	1.83	368E
F	1.93	6DF0
G	1.97	1769
H	1.98	576D
J	2.01	BC8F
<b><i>K</i></b>	<b><i>2.02</i></b>	<b><i>B89C</i></b>

Model: NAD 30S/30/40

Date: 12-Mar-02

No.: RA230071

Symptom Corrected	Other models	Lanier
<i>Sometimes after reinitializing the NIB, the panel continues to display "NIB Initializing".</i>	M	K
<i>The printer is sometimes unable to give an SNMP response.</i>	M	K
<i>An SC error occurs after continuous USTATUSTIMED and USTATUSOFF commands.</i>	M	K
<i>An extra blank sheet of paper is printed out in the middle of a UNIX print job.</i>	M	K

Model: NAD 30S/30/40		Date: 27-Mar-02	No.: RA230072
Subject: Software Release Information		Prepared by: E. Fukuyama	
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 (      )		

Printer firmware history for the NAD30S/30/40.  
 New items appear in ***bold italics***.

For Models Other than Lanier

A8505280	Version	C. SUM
F	1.82	6CAF
G	1.83	368E
H	1.93	6DF0
J	1.97	1769
K	1.98	576D
L	20.1	BC8F
M	2.02	B89C
<b><i>N</i></b>	<b><i>2.03</i></b>	<b><i>2E14</i></b>

For the Lanier Model

A8505255	Version	C. SUM
D	1.82	6CAF
E	1.83	368E
F	1.93	6DF0
G	1.97	1769
H	1.98	576D
J	2.01	BC8F
K	2.02	B89C
<b><i>L</i></b>	<b><i>2.03</i></b>	<b><i>2E14</i></b>

Model: NAD 30S/30/40

Date: 27-Mar-02

No.: RA230072

Symptom Corrected	Other models	Lanier
<i>With display languages other than English, "5. Convert" (A4/Letter auto-conversion feature) is not displayed in the User Tools → 4. Printer → 6. Configuration Menu.</i>	N	L
<i>Jobs sent with some PS drivers are erased when the Bypass tray is set as the default feeding tray.</i>	N	L
1. 13U, 9N and 4U symbol sets newly added. 2. "Eurofont" added to symbol sets 5M and 12J.	N	L

Model: NAD 30S/30/40		Date: 5-Jun-02	No.: RA230073
Subject: Software Release Information		Prepared by: Yuuji Urushihara	
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 (      )		

Printer firmware history for the NAD30S/30/40.  
 New items appear in ***bold italics***.

For Models Other than Lanier

A8505280	Version	C. SUM
F	1.82	6CAF
G	1.83	368E
H	1.93	6DF0
J	1.97	1769
K	1.98	576D
L	20.1	BC8F
M	2.02	B89C
N	2.03	2E14
<b><i>P</i></b>	<b><i>2.05</i></b>	<b><i>5112</i></b>

For Lanier Models

A8505255	Version	C. SUM
D	1.82	6CAF
E	1.83	368E
F	1.93	6DF0
G	1.97	1769
H	1.98	576D
J	2.01	BC8F
K	2.02	B89C
L	2.03	2E14
<b><i>M</i></b>	<b><i>2.05</i></b>	<b><i>5112</i></b>

Model: NAD 30S/30/40

Date: 5-Jun-02

No.: RA230073

Symptom Corrected	Other models	Lanier
<i>When using Eurofont symbol sets 13U, 9N and 4U, all fonts other than Times New Roman are displayed as Arial.</i>	<i>P</i>	<i>M</i>
<i>"Unknown Problem" has been removed from all NDPS Gateway error messages, as this display is unnecessary.</i>	<i>P</i>	<i>M</i>

Model: NAD 30S/30/40		Date: 6-Mar-03	No.: RA230074
Subject: Software Release Information		Prepared by: Y.Urushihara	
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 (      )		

This RTB has been issued to announce the release of the latest BICU firmware (ver. 14.8).

## 1. Software Version: 14.8

Relevant Program Numbers:

Program Number	C.SUM	Contained Languages
A2325113Z	43E0	US English (US), French (F), Spanish (E) – NA
A2325114Y	F81E	UK English (GB), French (F), German (D) – EU
A2325152Q	F553	UK English (GB), Spanish (E), Italian (I)
A2325153Q	7B2D	UK English (GB), French (F), Dutch (NL)
A2325154Q	17F3	UK English (GB), Swedish (S), Norwegian (N)
A2325155Q	C13D	UK English (GB), Danish (DK), Finnish (FIN)
A2325156Q	106C	UK English (GB), Spanish (E), Portuguese (P)
A2325157Q	B015	UK English (GB), Polish (PL), Hungarian (H)
A2325158Q	D66C	UK English (GB), Polish (PL), Czech (CZ)

Model: NAD 30S/30/40	Date: 6-Mar-03	No.: RA230074
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[Corrections]

No,	Title	Errors corrected by modified software:
1	SC304	<p>SC304.</p> <p><b>Note:</b> It is necessary to change SP2001-2 (Charge Roller Bias Adjustment) from 350→400, and change SP2005-4 (Charge Roller Bias Correction) from 2000→1700.</p>

Model: NAD30S/30/40 Mail Box		Date: 24-Apr-03	No.: RA230075
Subject: Software Release History (CS360)		Prepared by: K. Takagi	
From: 1st Tech. Support Sec. Service Support 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 (      )		

Software history for the CS360 (Mailbox).

The CS360 Mailbox is currently an option for the following models:  
 SP5/SP5L (A229), NAD 30S/30/40 (A230/A231/A232), Adonis-C1NA (A283/A284), Mojito (A292/A293), Adonis-C2 (B003/B004/B006/B007), Adonis-P(G035) and Adonis-P3(G065).

Part Number	Version	C. SUM	Production
G909 0339A	1.3		February 2000 production
G909 0339E	1.7	CB4D	February 2001 production
G909 0339F	1.9	1FB3	September 2001 production
<b>G909 0339G</b>	<b>2.0</b>	<b>C8E9</b>	<b>February 2002 production</b>

## Descriptions

Symptom Corrected	Version
First lot of mass production	1.0
Changed to enable the CS360 to work on the Mojito.	1.3
-When both the Finisher and the Mailbox are connected to the Adonis-C2, the Adonis-C2 does not detect the finisher. -The Finisher motor does not stop following a jam at the Mailbox, causing SC990 and a Finisher jam to be generated.	1.7
When both the SR31 and Mailbox are connected to the Mojito, sometimes a Finisher jam is generated by the chattering of the Mailbox exit sensor.	1.9
<b>The machine does not return to Ready status even after the operator removes a proof-tray jam.</b>	<b>2.0</b>