Technical Bulletin

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Model: Katana	Dat	Date:14-Jul-06		No.: RB234015		
Subject: Service		Prepared by: S. Ishizu				
From: 2nd Tech	Support Sec. Service Support	Dept.				
Classification:	Troubleshooting	☐ Part inf	orma	tion	Action	n required
	☐ Mechanical	☐ Electric	al		ce manual revision	
	☐ Paper path	☐ Transm	it/rec	eive	Retro	fit information
	☐ Product Safety	Other ()		

This document summarizes the corrections in the Service Manual for "Katana" (Machine Code: B234/235/236).

1. Added new step 8 < Page: 1-30>

7. Input the following telephone numbers with SP 5812.

- Service technician telephone number: SP 5812 001
- Service technician fax number: SP 5812 002
- For ordering consumables: SP 5812 003
- Sales representative: SP 5812 004

8. Install the language firmware if necessary.

2. Corrected the procedure <Page: 1-122>

Incorrect

Instruct the key operator to enable the key counter with the User Tools setting:
 User Tools> System Settings> Key Counter Management> ON

Correct

Instruct the key operator to enable the key counter with the User Tools setting:
 User Tools> System Settings> <u>Administrator Tools</u>> Key Counter Management> ON

3. Corrected PM table <Page: 2-8>

Incorrect

Hot roller gears	C/L			Lubricate (Barrierta 55L or SS552R)
------------------	-----	--	--	-------------------------------------

Correct

Hot roller gears	0//	Lubricate with Grease
	C/L	Barrierta – JFE5 5/2
		(A2579300)



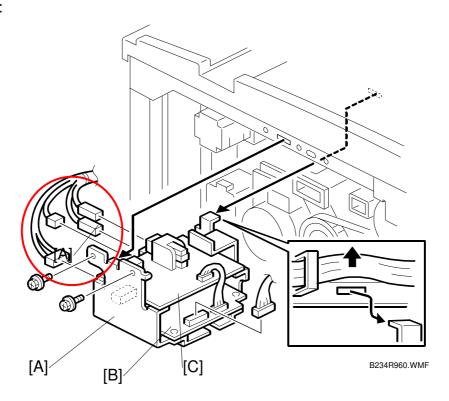
Technical Bulletin

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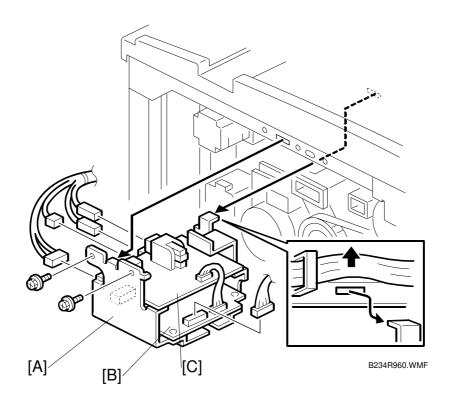
Model: Katana Date:14-Jul-06 No.: RB234015

4. Corrected the Callout <Page: 3-166>

Incorrect:



Correct:

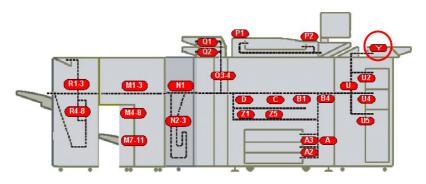


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Model: Katana Date:14-Jul-06 No.: RB234015

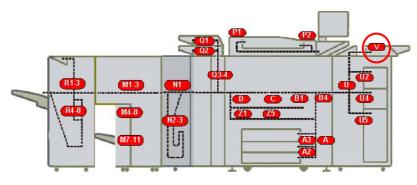
5. Corrected the label "Y" to "V". < Page: 4-5>

Incorrect:



B234T050X.WMF

Correct:



B234T050.WMF



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Model: Katana Date:14-Jul-06 No.: RB234015

6. Added SC876 < Page: 4-51>

1										
SC876	D	Log Data Error								
			The log data has been corrupted at power on, while the machine was operating, or when the machine was powered off during a print or copy cycle.							
		The machine should never be switched off while								
00070.4										
SC876-1		Log data file was corrupted at power on or while the machine was operating.	Format the HDD with SP5832-004.							
SC876-2		The log was set for encryption without the encryption module installed:	Install or replace and set the							
			encryption module.							
		At power onWhile the machine was operating	 Enable the log encryption setting. 							
		When the log encryption setting was	Setting.							
		changed.								
SC876-3		At power on, the log encryption key was	Format the disk with							
		disabled, causing an NVRAM malfunction.	SP5832-004.							
SC876-4		At power on, the machine attempted log data	 Format the disk with 							
		encryption with the log encryption setting	SP5832-004.							
		disabled (NVRAM malfunction).								
		At power on, log encryption was attempted with the log encryption setting disabled								
		(NVRAM malfunction).								
SC876-5		Error occurred at power on.	Replace the NVRAM with							
		Only the NVRAM was replaced with an	the original NVRAM.							
		NVRAM from another machine.	Replace the HDD with the							
		-or-	original HDD.							
		Only the HDD was replaced with an HDD unit	If the error persists, format							
		from another machine.	the HDD with SP5832-004.							
SC876-99		Cause unknown. The error occurred at power	Contact the Ricoh design							
		on or while the machine was operating.	section.							

SC876: More

If the error persists after doing the procedure described in the table above, do this procedure.

- 1. Switch the machine off, remove the HDD, then switch the machine on.
- 2. Do SP5801-019 then switch the machine off.
- 3. Install the HDD again and switch the machine on.
- 4. Do SP5832-004.
- 5. Cycle the machine off/on.
- 6. Do SP9730-002 and set to "1" (ON).
- 7. Do SP9730-003 and set to "1" (ON).
- 8. Do SP9730-004 and set to "1" (ON).
- 9. Cycle the machine off/on.

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Model: Katana Date:14-Jul-06 No.: RB234015

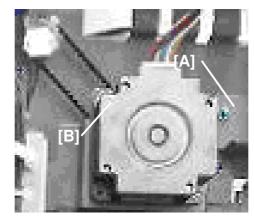
7. Edited title of SP5227 < Page: 5-55>

Old:

5227	Page Numbering
New:	

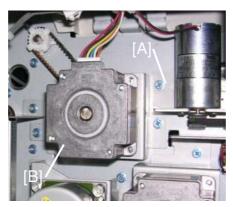
5227	Page Numbering (Bates Stamp)

8. Replace with new photo <B830-34> Old:



B830R901X.BMP

New:



B830R910.BMP



Model: Katana

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Date:14-Jul-06 No.: RB234015

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9. Corrected ELECTRICAL COMPONENT SUMMARY < Page: B830-72>

Incorrect:

S38	Stapler Rotation Sensor 2	Paired with Stapler Rotation Sensor 1. This sensor pair controls
		the positioning of the corner stapler for the horizontal, 45° angle,
		and 75° angle stapling positions.

Correct:

S38	Stapler Rotation Sensor 2	Paired with Stapler Rotation Sensor 1. This sensor pair controls
		the positioning of the corner stapler for the <i>horizontal and 45°</i>
		angle stapling positions.



Model: Katana

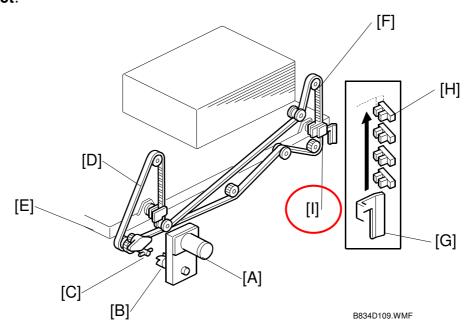
Technical Bulletin

 Ulletin
 PAGE: 7/7

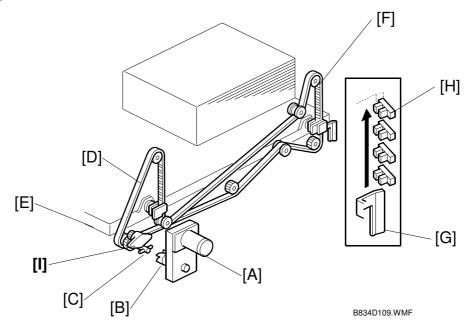
 Date:14-Jul-06
 No.: RB234015

10. Moved callout "[I]" to correct position. <Page: B834-24>

Incorrect:



Correct:



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Model: Katana Date:14-Jul-06 No.: RB234015

11. Corrected the ELECTRICAL COMPONENTS < Page: B836-22> Incorrect:

- 1. Horizontal Transport Sensor
- 2. Upper Transport Motor
- 3. Stapling Tray Junction Gate Solenoid
- 4. Finisher Entrance Sensor
- 5. Entrance Motor
- 6. Lower Transport Motor
- 7. Booklet Pressure Roller Solenoid
- 8. Positioning Roller Solenoid
- 9. Main Board (PCB)

- 10. Positioning Roller Motor
- 11. Edge Pressure Plate Solenoid

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- 12. Stack Tray Exit Sensor
- 13. Booklet Stapler Board
- 14. Booklet Output Tray Full SensorRear
- 15. Booklet Output Tray Full Sensor Front
- 16. Front Door Safety Switch
- 17 Small Front Door Open Sensor

Correct:

- 1. Horizontal Transport Sensor
- 2. Upper Transport Motor
- 3. Stapling Tray Junction Gate Solenoid
- 4. Finisher Entrance Sensor
- 5. Entrance Motor
- 6. Lower Transport Motor
- 7. Booklet Pressure Roller Solenoid
- 8. Positioning Roller Solenoid
- 9. Positioning Roller Motor

10. Main Board (PCB)

- 11. Edge Pressure Plate Solenoid
- 12. Stack Tray Exit Sensor
- 13. Booklet Stapler Board
- 14. Booklet Output Tray Full SensorRear
- 15. Booklet Output Tray Full Sensor Front
- 16. Front Door Safety Switch
- 17 Small Front Door Open Sensor

Classification:

Marks

Model: AG-P1 / C1

Technical Bulletin

	Date: 14-Ju	I-10	No.: RG178107				
or Roller	Prepar	ed by: Hird	oaki Matsui				
☐ Part info	ormation	☐ Action	required				
☐ Electric	al	☐ Service manual revision					
☐ Transm	it/receive	⊠ Retro	fit information				

X Tier 2

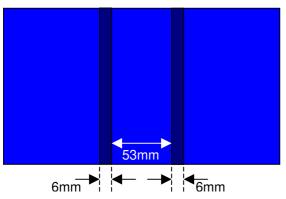
PAGE: 1/12

SYMPTOM

Depending on the print pattern, either of the roller marks shown below could appear when making booklets on the BK5000.

Other (

)



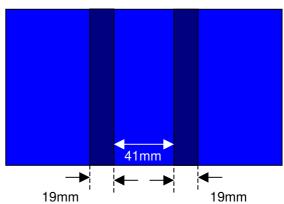
Subject: BK5000 Modified Exit/Driven Rollers for Roller

☐ Troubleshooting

☐ Paper path

☐ Product Safety

From: PPBG QA/Service Planning Dept.

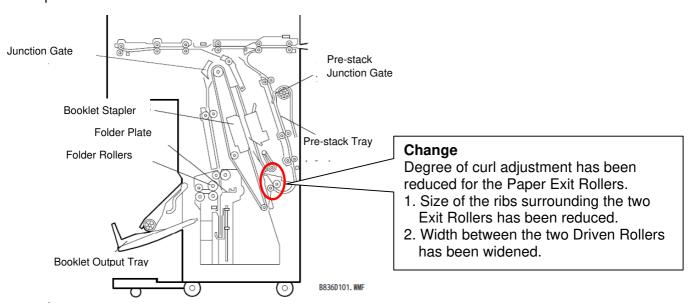


CAUSE

The previous Exit Rollers with large ribs causes excessive pressure against the sheets.

SOLUTION

Paper Exit Rollers and Driven Rollers have been modified as described below.



Technical Bulletin

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Date: 14-Jul-10 Model: AG-P1 / C1 No.: RG178107

Replacement Procedures: Stapler Tray Exit Rollers & Driven Rollers

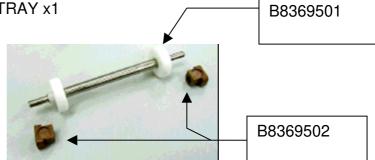
The modified parts are as follows: B8369501: DRIVEN ROLLER x1

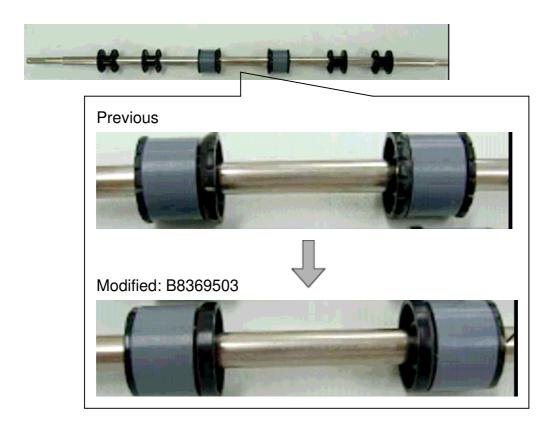
B8369502: BUSHING x2

B8369503: EXIT ROLLER: STAPLER TRAY x1









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Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

Step1. Replacing the Driven Rollers

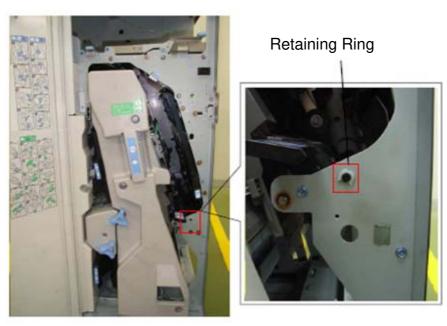
Step1-1. Open the front door, and remove the inner cover. (Screw x2)



Tapping screws; 3x8

Inner cover

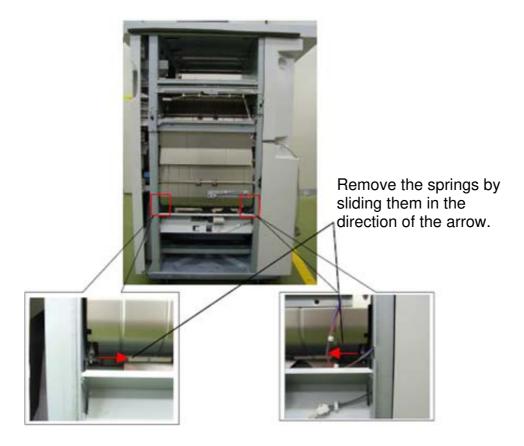
Step1-2. Remove the "Guide Plate: Lower: Open and Close". Remove the Retaining Ring.



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Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

Step1-3. Face the unit from the upstream side, and remove the two springs.



Step1-4. Pull out the booklet stapler unit.

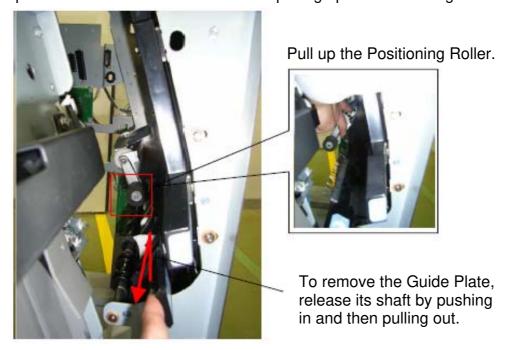


Booklet Stapler Unit

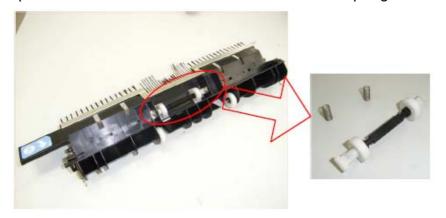
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Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

Step1-5. Remove the Guide Plate while pulling up the Positioning Roller.



Step1-6. Remove the Driven Rollers and the two Springs from the guide plate.



Step 1-7. Slide in the Booklet Stapler Unit back to its normal position.



Model: AG-P1 / C1

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Date: 14-Jul-10

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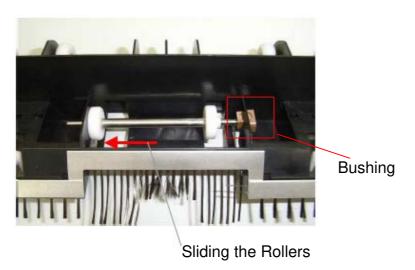
No.: RG178107

Step 1-8. Install the new Driven Rollers on the guide plate.



Driven Rollers

Step 1-9. Slide the Rollers in the direction of the arrow, and install the Bushing as shown in the photo below.



Step 1-10. Lift up the end of the Driven Rollers, and install the other Bushing as shown in the photo below.

Lift up and tilt the Driven Rollers





Model: AG-P1 / C1

Technical Bulletin

Date: 14-Jul-10 No.: RG178107

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Step 1-11. Attach the two Springs removed in "Step1-6"...



Spring x2

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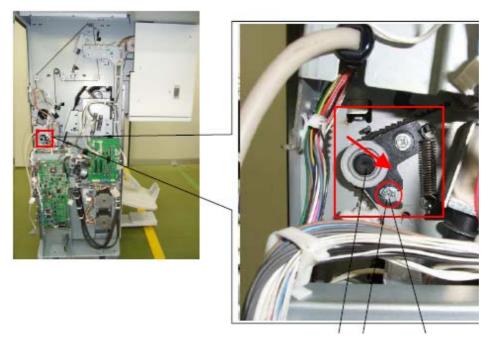
Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

Step 2. Removing the Exit Rollers

Step 2-1. Remove the Rear Cover.



Step2-2. Loosen the Belt Tensioner.



(2) Allow the Tensioner to move away from the Belt.

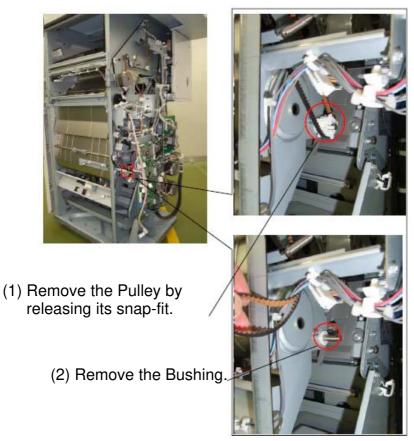
- (1) Loosen this screw to release the tension from the Belt.
- (3) Tighten the screw while the pressure is released.

Model: AG-P1 / C1

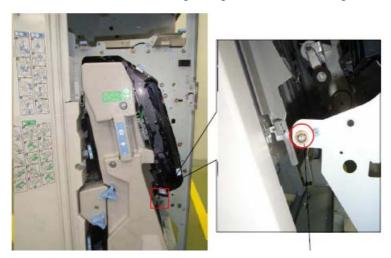
 Ulletin
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 Date: 14-Jul-10
 No.: RG178107

Step2-3. Remove the Pulley and the Bushing.



Step2-4. Remove the Retaining Ring and the Bushing.



Retaining Ring / Bushing



Technical Bulletin

Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

Step2-5. Pull out the Booklet Stapler Unit, and remove the Exit Rollers.



Booklet Stapler Unit

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Remove the Exit Rollers by pulling out horizontally, and then vertically.

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Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

Step 3. Installation of the New Parts and Put-back Procedures

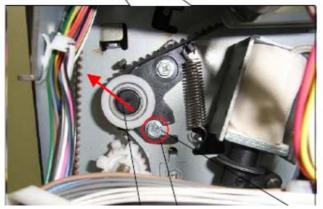
Step 3-1. Install the new Exit Rollers and the Guide Plate installed with the new Driven Rollers.

- 1. Exit Rollers: Follow the steps "Step2-3" to "Step2-5" in reverse order.
- 2. Guide Plate: Follow "Step1-5" in reverse order.

Step 3-2. Reattach the removed parts.

- 1. Inner-cover, Retaining Ring, Springs: Follow the steps "Step1-1" to "Step1-3" in reverse order.
- 2. Set the Tensioner in its original position.

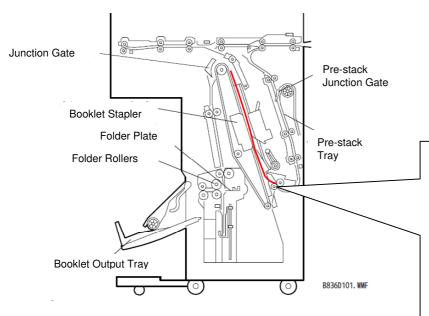




- (1) Loosen this screw.
- (3) Tighten the screw while the pressure is applied.
- (2) Confirm that the Tensioner is pulled by the spring and pressure is applied to the Belt.
- 3. Attach the Rear Cover.

Model: AG-P1 / C1 Date: 14-Jul-10 No.: RG178107

IMPORTANT Side Effect 1

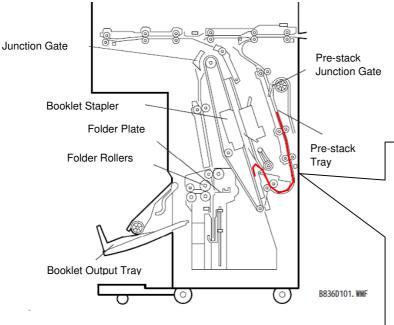


Incomplete Feed-out of Trailing Edge

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The reduction of curl adjustment at the paper exit could cause the sheet to remain incompletely fed – the trailing edge stays in the Exit Roller area, which could result in incorrect folding positions or jams caused by collision with the succeeding sheet.

Side Effect 2



Curls Generated at the Leading Edge

As the sheets are fed out with the curls less adjusted, the leading edge is curled immediately after having been fed out from the exit rollers, which could result in jams. The rate of jam occurrence rises especially when feeding "thin and/or curled" sheets.

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Model: Katana-C1 Booklet Finisher BK5000 (B836) Dat					-10	No.: RB836001
Subject: Modifica		Prepared	d by: T. K	Komori		
From: PP Service						
Classification:	☐ Troubleshooting	⊠ Part info	orma	tion	Action	required
	☐ Mechanical	☐ Mechanical ☐ Electrical			Service	e manual revision
	☐ Paper path ☐ Transmit/red			eive	☐ Retrof	fit information
	☐ Product Safety	Other ()	☐ Tier 2	

Change: Addition of a screw hole on the Stay and the Stapler Tray

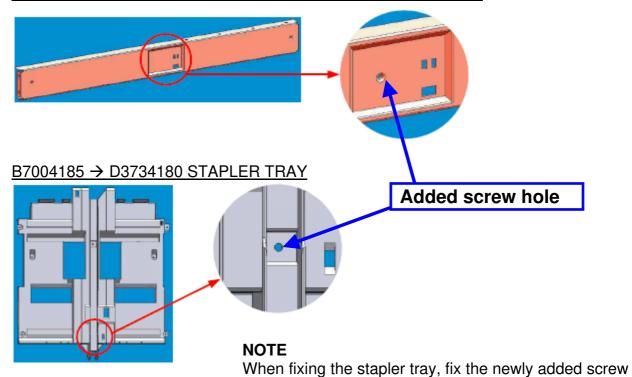
Reason: Higher reliability

Old Part Number	New Part Number	Description	Q'ty	Int		Page	Index
B7004167	D3734167	STAY:LOWER:POSITIONING SENSOR	1	X/X	X/O	23	6
B7004185	D3734180	STAPLER TRAY	1	X/X	as a set	17	16
	04543006Q	TAPPING SCREW - M3X6	1		361	17	109

The stapler tray (B7004185) could deform over time and cause the positioning sensor (B7004167) to falsely detect an error.

To prevent the stapler tray from deforming, a new screw hole has been added to fix the tray more firmly, which will ultimately prevent the false detection.

B7004167 → D3734167 STAY: LOWER: POSITIONING SENSOR



hole first using the tapping screw (04543006Q).

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Model: Katana-C1 Booklet Finisher BK5000 (B836) Date					-11	No.: RB836002
Subject: Parts Catalog Correction				Prepared by: T.Mimura		
From: PP Service Planning Department 1G						
Classification:	☐ Troubleshooting	□ Part info	ormat			n required
	☐ Mechanical	☐ Electric	al			ce manual revision
	☐ Paper path ☐ Transmit/rec			eive	Retrof	fit information
	☐ Product Safety	\square Other ()	☐ Tier2	

Change/Reason: The part number has been changed.

Old	New	Description	Q'ty	Int	Page	Index	Note
part number	part number						
		GUIDE PLATE:PAPER EXIT SUB-		X/O			
B7003705	B8043705	UNIT:PAPER CRIMP	1	As	37	5	
		HARNESS:CONNECTING:PAPER		а			
B7005407	B8045457	EXIT SUB-UNIT	1	Set	37	2	