Canon

Service Information

COPIER

☒**HARDWARE**
☐**SOFTWARE**

Model : Saddle Finisher -D2

Ref. No. : FF-T01-W-000112-01
Date : July 3, 2000

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Location : SADDLE ASSEMBLY

Subject : PREVENTING BLACK STRIPES IN IMAGES (CAUSED BY TONER SMEAR)

Reason : Black stripes can occur in images of a double-sided copy made in 'fold mode'. The symptom may be corrected as instructed herein.

Details : <Symptom>
Black stripes occur on double-sided copies because of a toner smear.

<Cause>
When paper is being moved in 'fold mode', the holding roller (FB3-7920) and the roller backup (FB3-7927) cause a smear on the paper, resulting in black stripes in copy images at intervals of about 185 mm, corresponding to the location of the roller.

<Factory measure>
The following changes will be made to distribute the pressure imposed by the roller backup while paper remains in contact with the holding roller, thereby reducing the occurrence of black stripes caused by toner smears:

1. Instead of the roller backup, a pressure plate (equipped with cushion sponge) will be used.
2. To accommodate change 1 above, the width of the holding roller will be increased to 60 mm from about 10 mm, (thereby ensuring the present feeding power).
3. To accommodate change 1 above, the cam of the cam shaft will be relocated so that the pressure will be applied to the center for the pressure plate.
4. To accommodate change 1 above, the screw hole used to mount the pressure plate of the lower path guide will be relocated. (The replacement may prove to be difficult and, therefore, the lower path guide is not made available as a service part.)
5. To accommodate change 2, the cut-off of the roller guide will be enlarged.
6. To reduce the time during which the holding roller remains in contact with paper and, thereby to reduce the distance over which the paper rubs against the roller, the software will be revised (ROM Ver. 3*).

* ROM Ver. 3 (FF3-3636-030); see S. Info. FF-T01-W-000110.

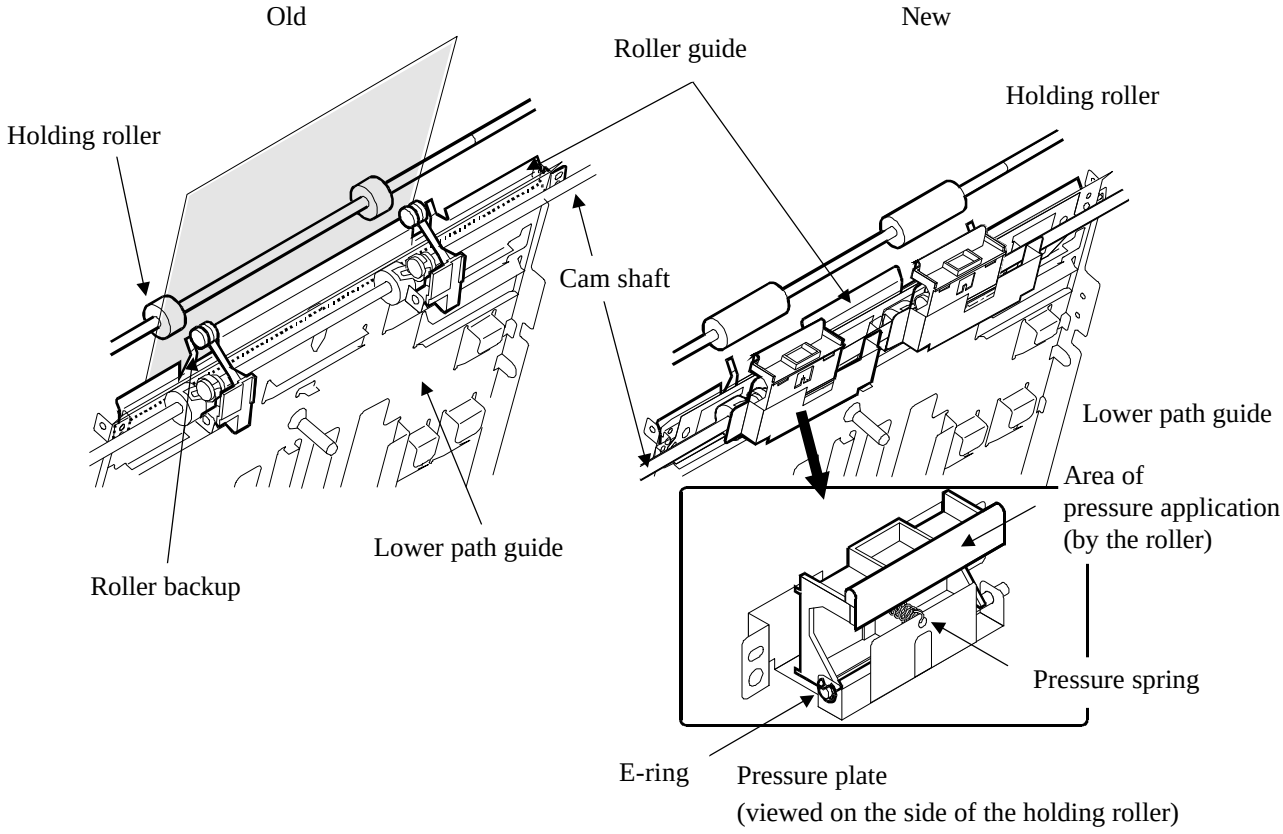

Fig. 1. Saddle Holding Roller Assembly

<Field Measure>

Add the cushion sheet (equipped with sponge) to the guide of the stitcher support base to distribute the pressure of the roller backup, thereby reducing black stripes caused by a toner smear; the addition of the cushion sheet will call for the following changes:

1. Increase the holding roller width from about 10 mm to 60 mm (to retain feeding power).
2. To accommodate change 1 above, enlarge the cut-off in the roller guide.
3. To accommodate change 1 above, change the pressure of the roller backup.
4. To accommodate change 1 above, change the force of the tension spring of SL33 (holding roller locking control solenoid).

Note: The parts in 1 and 2 are used in common between factory and field measures, while the rest are exclusively for field measures.

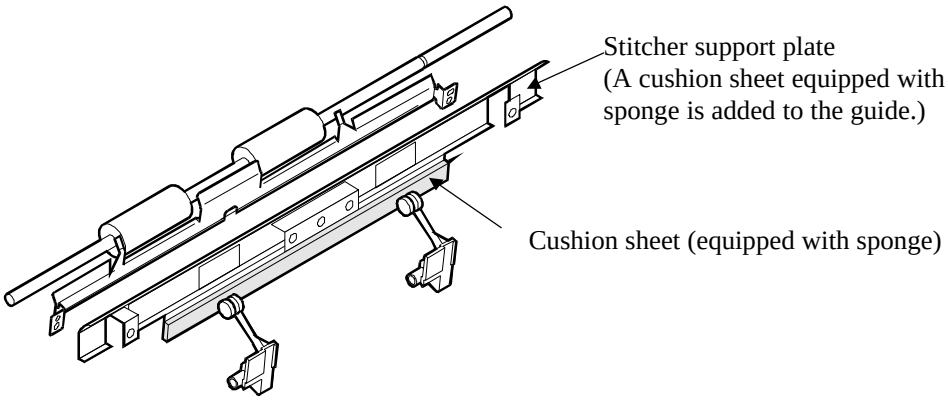

Fig. 2. Holding Roller Assembly for Field Measures

Servicing Work :

The parts to which changes are made for field measures are grouped into a kit, and made available as a service part. Be sure to use the "the counter measure assembly for black stripes"; FG6-5212" whenever implementing measures in machines which have not been modified in the factory.
For instructions, see " the Installation manual of countermeasure kit for black stripes caused by toner smearing (pub. F-IM-5916-010)".

Service Parts :

No.	Description		Part number	Q'ty	Stock	Inter-change-ability	P.C. Stock date
1	Old	ROLLER, HOLDING	FB3-7920-000	1→0	F	No No	Q50
	New	ROLLER, HOLDING	FB4-9011-000	0→1	F		
2	Old	GUIDE, ROLLER	FB3-7875-000	1→0	F	No No	Q56
	New	GUIDE, ROLLER	FB4-9012-000	0→1	F		
3	Old	ROLLER, BACK-UP	FB3-7927-000	2→0	F		Q56
	New						
4	Old	HOLDER, ROLLER	FB3-7926-000	2→0	F	No No	Q56
	New	HOLDER, ROLLER	FF5-8647-000	0→2	F		
5	Old	SHAFT, CAM	FB3-7923-000	1→0	F	No No	Q50
	New	SHAFT, CAM	FB4-9019-000	0→1	F		
6	Old						
	New	COUNTER MEASURE ASSEMBLY FOR BLACK STRIPES	FG6-5212-000	0→1	D		In stock

Note: Keep in mind that the components of "the counter measure assembly for black stripes" are not made available as service parts.

Affected machines:

F24-9511 115V: NLJ06915 and later
F24-9521 220V 240V: ULJ05387 and later