RICOH

Technical Bulletin No. RTB-011

SUBJECT: DF61 Dirty Mark on Back-side of Original

DATE:July 31, '96
PAGE: 1 of 3

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CHECKED BY: T. Inoue

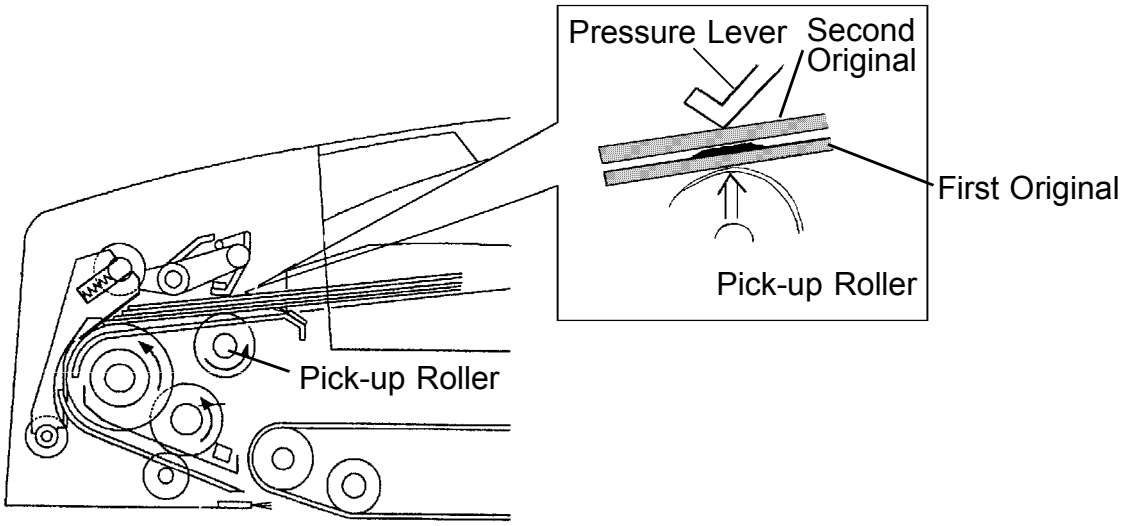
FROM: 1st Field Information Dept. QAC

CLASSIFICATION:
- ☐ Action Required
- ■ Troubleshooting
- ☐ Retrofit Information
- ☐ Revision of service manual
- ☐ Information only
- ☐ Other

MODEL:
Phoenix-series
(DF61)

Problem: Three dirty marks on the back side of the original.

Cause: The toner on the first original is transferred to the back of the second original due to the pressure applied by the pressure lever and the pick-up roller. (See the illustration)

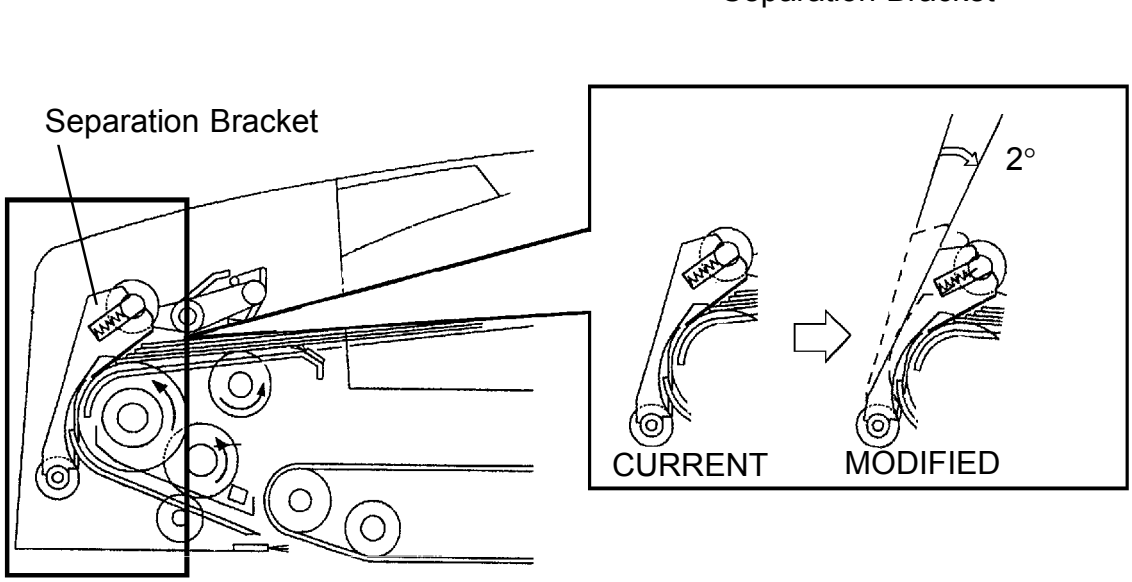


The dirty marks created are one of the limitations of the DF61. The degree to which the marks appear varies depending on how completely the image on the first original is fused, the type of image, and the type of paper used.

Countermeasure:
Due to this countermeasure for the DF61, the specifications listed in the service manual have been changed as follows:

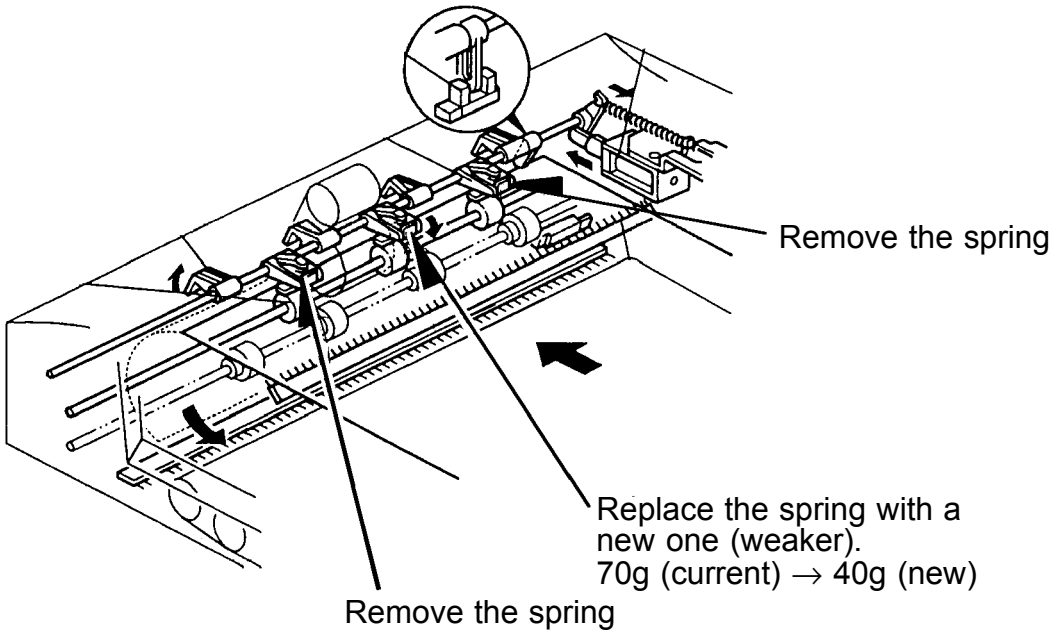
Specification Item	Current DF	Modified DF
Original Weight	52 to 128 g/m^2	52 to 104 g/m^2
Original Table Capacity	50 sheets at 80 g/m^2	35 sheets at 80 g/m^2

The countermeasure for the dirty marks is designed to reduce the pressure applied to the originals by replacing the entrance guide stopper spring with a new one. This change also results in a decrease in the amount of force used to feed the original and may create an original non-feed problem. Therefore, the separation bracket has been modified to reduce the angle by 2 degrees.

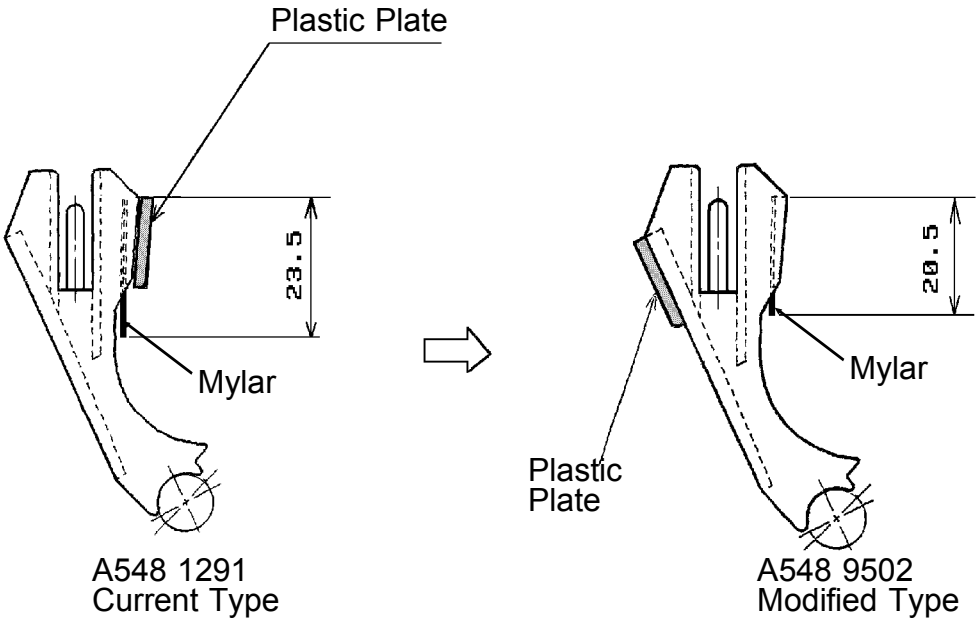


Modification Procedure:

1. Remove the three springs from the entrance guide stopper and install the new spring (P/N:A548 9500) in the middle. If an original non-feed occurs, add the outside springs (P/N:A548 9500) on both sides.



2. Remove the DF separation bracket. (1 snap ring)
3. Replace the separation bracket with A548 9502.



4. Reassemble the parts.

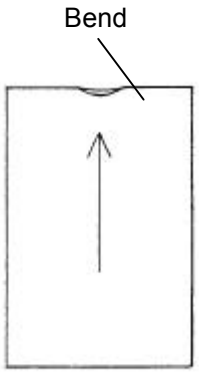
Note: The spring (A548 9500), and the bracket (A548 9502) are available as spare parts.

Model: DF61 (Phoenix series)	Date: 15-Aug-97	No: 20
Subject: Bent Original	Prepared by: S.Hizen	
From: QAC 1st Field Information Dept.		

Classification:	☒ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Other ( )		

SYMPTOM

There is a bend (wrapping) on the leading edge of the original the same size as the width of the separation belt. If the bend in the original is large, dirty background may appear on the copy in the area that corresponds with that bend.



Note: This phenomenon occurs more often if the original has an upward curl. Originals output from laser printers are particularly susceptible.

CAUSE

The problem occurs as a result of the contact between the edge of the original and the separation belt when the original is fed to the exposure glass. If the upward curl of the original is large or the cut in the leading edge of the paper is not smooth, this problem is more likely to occur.

The angle between the separation belt and the originals, and the symptoms caused by the angle.

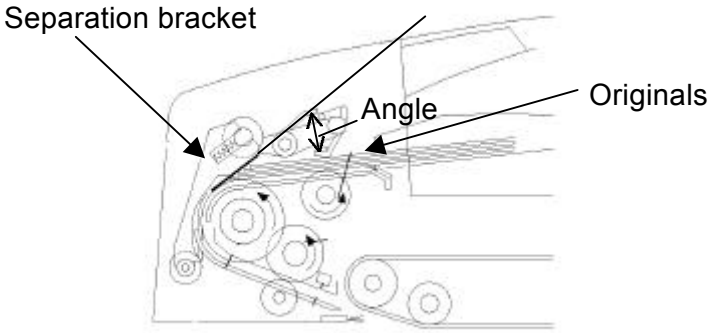
Large: Good for separation, marginal for original leading edge bending

Small: Good for original leading edge bending, marginal for double-sheet feeds.

The Separation Belt Tension also affects the angle

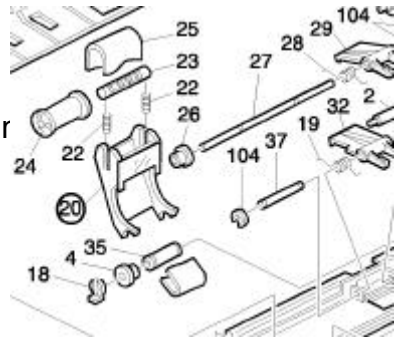
Strong: If the tension is strong, the angle is relatively large.

Weak: If the tension is weak, the angle is relatively small



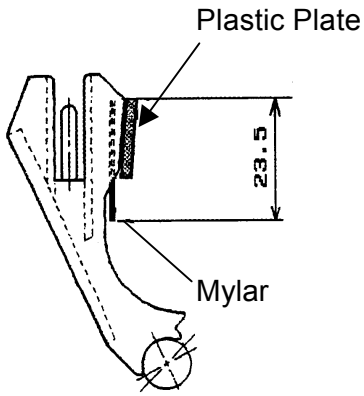
SOLUTION

This problem can be resolved by reducing the angle of the belt, which will help original entrance, or by lowering the guide mylar by 1 mm to reduce the resistance of the original.
Change the separation belt bracket (A5481291: #20 in the diagrar on the right) and the spring to reduce the angle between the original and the belt and also decrease the force from the belt on the edge of the original.
Replacement Part Number: A5489504

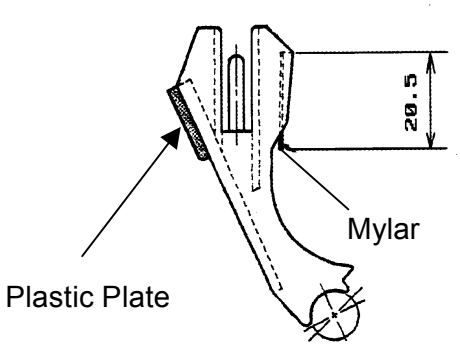


The chart below clarifies the modifications made to the separation bracket.

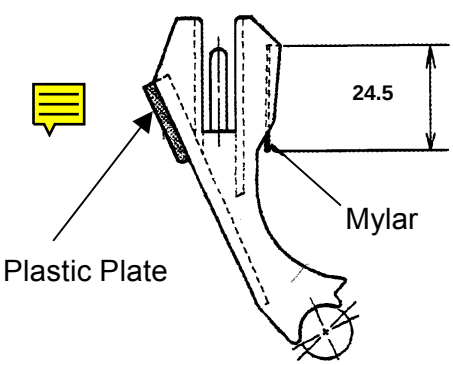
Separation bracket
Mass-production.
A548-1291
Bracket Spring: AA06-3503



RTB-11
Bracket for the dirty mark on the back side of original.
A548-9502



RTB-20
Bracket for the leading edge bend.
A548-9504
(This number is for the Bracket and the Spring)



Note: If jams occur due to double-sheet feeds, please install the stronger pressure spring packed with the machine. This measure is designed to facilitate the entrance of the originals. However, if the friction between the originals is high, and the originals are large, double-sheet feeds may occur if many originals are used at the same time.

If thin originals are used after the stronger pressure spring has been installed, they may become creased. If so, please reinstall the original pressure spring and reduce the number of originals used at one time.

The modified brackets shown above can also be used in the DF64.