

**Reissued: 26-Jun-15**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052001c
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**RTB Reissue**

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

Subject: Firmware Release Note: Fax		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Fax**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>04.00.00</i></b>	<b><i>M0525774D</i></b>	<b><i>July 2015 production</i></b>	<b><i>Available</i></b>
03.00.00	M0525774C	December 2012 production	Available
02.00.00	M0525774B	April 2012 production	Available
01.00.00	M0525774A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b><i>04.00.00</i></b>	<b><i>Symptom corrected:</i></b> <b><i>- The LCD stalls when a Document Server document is deleted.</i></b>
03.00.00	Symptom corrected: The machine freezes if a FAX is received during a Copy job that has been in progress for at least two minutes. Note: This can only be cleared by turning the main power OFF/ON.
02.00.00	Symptom corrected: Machine cannot detect pirated FCU.
01.00.00	1st Mass production

**Reissued: 15-Mar-16**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052002c
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**RTB Reissue**

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

Subject: Firmware Release Note: GWFCU3-24(WW)		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **GWFCU3-24(WW)**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>04.00.00</i></b>	<b><i>M3815570D</i></b>	<b><i>April 2016 production</i></b>	<b><i>Available</i></b>
03.00.00	M3815570C	January 2013 production	Available
02.00.00	M3815570B	March 2012 production	Available
01.00.01	M3815570A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b><i>04.00.00</i></b>	<b><i>Symptom corrected:</i></b> <b><i>If an error, for example, 14-30 occurs while sending folders, the machine may not recover from the error nor report the error.</i></b>
03.00.00	Symptom corrected: 1. The number of FAX pages printed out does not match the number that appears in the Job Log. 2. The number of pages printed out does not match the number that appears in the Job Log, if the machine main power is turned OFF/ON while the machine is receiving a FAX.
02.00.00	Minor bug correction
01.00.01	1st Mass production

**Reissued: 23-Mar-12**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052003a
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**RTB Reissue**

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

Subject: Firmware Release Note: Language Install		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Language Install**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.02</i></b>	<b><i>M0525791A</i></b>	<b><i>April 2012 production</i></b>	<b><i>Not available</i></b>
1.01	M0525791	1st Mass production	Not available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b><i>1.02</i></b>	<b><i>Minor changes.</i></b>
1.01	1st Mass production

Model: <b>Sh-MF1</b>	Date: 10-Aug-11	No.: RM052004
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Subject: Firmware Release Note: MediaPrint		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **MediaPrint**.

Version	Program No.	Effective Date	Availability of RFU
1.00.00	M0525798A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.00.00	1st Mass production



**Reissued: 06-Oct-11**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052005a
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**RTB Reissue**

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

Subject: Firmware Release Note: NetworkDocBox		Prepared by: T. Hirai	
From: MFP/Printer Tech Service Dept., 3rd Tech Service Sect.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **NetworkDocBox**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.04</i></b>	<b><i>M0525793B</i></b>	<b><i>October 2011 production</i></b>	<b><i>Available</i></b>
1.03	M0525793A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected		
1.04	<b>Other changes:</b> <b>Scan to file would not allow the creation of PDF files if the "Master Password" setting was configured but the "Document Password" setting was not. After the fix, Scan to file will now allow the creation of PDF files under these conditions.</b>		
	<b>This firmware is dependent on the following firmware modules. Please be sure to update all of them:</b>		
	<b>Network DocBox</b>	<b>Ver.1.04</b>	<b>M0525793B</b>
	<b>Scanner</b>	<b>Ver.01.03</b>	<b>M0525777B</b>
	<b>Web Uapl</b>	<b>Ver.1.02</b>	<b>M0525789B</b>
1.03	1st Mass production		

**Reissued: 23-Mar-12**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052006a
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**RTB Reissue**

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

Subject: Firmware Release Note: OpePanel.EXP		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **OpePanel.EXP**.

**For US Models**

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.02</i></b>	<b><i>M0521492B</i></b>	<b><i>April 2012 production</i></b>	<b><i>Available</i></b>
1.01	M0521492A	1st Mass production	Available

**For EU Models**

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.02</i></b>	<b><i>M0521493B</i></b>	<b><i>April 2012 production</i></b>	<b><i>Available</i></b>
1.01	M0521493A	1st Mass production	Available

**For ASI Models**

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.02</i></b>	<b><i>M0521494A</i></b>	<b><i>April 2012 production</i></b>	<b><i>Available</i></b>
1.01	M0521494	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

**For US Models**

Version	Modified Points or Symptom Corrected
<b><i>1.02</i></b>	<b><i>Minor changes.</i></b>
1.01	1st Mass production

**For EU Models**

Version	Modified Points or Symptom Corrected
<b><i>1.02</i></b>	<b><i>Minor changes.</i></b>
1.01	1st Mass production

Reissued: 23-Mar-12

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052006a
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**For ASI Models**

Version	Modified Points or Symptom Corrected
<b>1.02</b>	<b><i>Minor changes.</i></b>
1.01	1st Mass production

**Reissued: 24-Jul-15**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052007f
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**RTB Reissue**

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

Subject: Firmware Release Note: PCL		Prepared by: T. Tachibana	
From: 3rd Tech Service Sect., MFP/Printer Tech Service 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **PCL**.

Version	Program No.	Effective Date	Availability of RFU
<b>1.07</b>	<b><i>M0525796G</i></b>	<b><i>July 2015 production</i></b>	<b><i>Available</i></b>
1.06	M0525796F	October 2014 production	Available
1.05	M0525796E	December 2013 production	Available
1.04	M0525796D	December 2012 production	Available
1.03	M0525796C	July 2012 production	Available
1.02	M0525796B	October 2011 production	Available
1.01	M0525796A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available":** The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b>1.07</b>	<b><i>Symptom corrected:</i></b> <b><i>1. If a PCL5 job is printed under certain conditions related to the font header information when using host printing, PCL default fonts are used. (GFPR#RE14100009)</i></b>
1.06	Symptom corrected: 1. If the glyph data of TrueType fonts includes hinting information that is on the edge of the frame, an SC899 error might occur. (GFPR#RC14030010)
1.05	Symptom corrected: 1. Additional condition that caused "SC899 caused by the printing of specific kinds of TrueType fonts in PCL jobs" to still occur after the release of v1.04. (GFPR#RE11070014, GFPR#RC12050012, GFPR#RE12080003, GFPR#RE13010012, GFPR#RE13020020) 2. Print data that contains many intricate curve lines might take a long time to print. (GFPR#RE13030010) 3. A PCL XL error might occur when using the Citrix UPD to print.
1.04	Symptom corrected: 1. SC899 caused by the printing of specific kinds of TrueType fonts in PCL jobs. (GFPR#RE11070014, GFPR#RC12050012, GFPR#RE12080003)

**Reissued: 24-Jul-15**

Model: Sh-MF1		Date: 10-Aug-11	No.: RM052007f
Version	Modified Points or Symptom Corrected		
1.03	Symptom corrected 1. SC899 caused by the printing of specific kinds of scalable TrueType fonts. (GFPR#RE11100007) 2. SC899 caused by the printing of specific kinds of scalable TrueType fonts. (GFPR#CN11110001) 3. The use of a PCL5 macro results in an extra blank page being added to the job. (GFPR#RE11110012)		
1.02	Other changes: Shifted characters in duplex PCL jobs containing macros that use either of the following commands: <ESC>&l#U <ESC>&l#Z		
1.01	1st Mass production		

Model: <b>Sh-MF1</b>	Date: 10-Aug-11	No.: RM052008
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Subject: Firmware Release Note: PS/PDF		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **PS/PDF**.

Version	Program No.	Effective Date	Availability of RFU
1.01	M0525797A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.01	1st Mass production

Model: <b>Sh-MF1</b>	Date: 10-Aug-11	No.: RM052010
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Subject: Firmware Release Note: RPCS		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **RPCS**.

Version	Program No.	Effective Date	Availability of RFU
3.10.21	M0525795A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
3.10.21	1st Mass production

Model: <b>Sh-MF1</b>	Date: 10-Aug-11	No.: RM052011
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Subject: Firmware Release Note: RemoteFax		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **RemoteFax**.

Version	Program No.	Effective Date	Availability of RFU
01.00.00	M0525775A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
01.00.00	1st Mass production



**Reissued: 18-Jun-12**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052012b
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**RTB Reissue**

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

Subject: Firmware Release Note: Scanner		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Scanner**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>01.04</i></b>	<b><i>M0525777C</i></b>	<b><i>July 2012 production</i></b>	<b><i>Available</i></b>
01.03	M0525777B	October 2011 production	Available
01.02	M0525777A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected											
01.04	<b><i>Other changes:</i></b> <b><i>Supports copying and scanning of mixed letter and legal sized originals ("LT/LG Mixed Sizes").</i></b>  <b><i>IMPORTANT: To use this feature, make sure that the following firmware versions or newer are also installed.</i></b> <b><i>System/Copy: v2.03 (M0525771G)</i></b> <b><i>Scanner: v01.04 (M0525777C)</i></b>											
01.03	<p>Other changes:</p> <p>Scan to file would not allow the creation of PDF files if the "Master Password" setting was configured but the "Document Password" setting was not. After the fix, Scan to file will now allow the creation of PDF files under these conditions.</p> <p>This firmware is dependent on the following firmware modules. Please be sure to update all of them:</p> <table><tr><td>Network DocBox</td><td>Ver.1.04</td><td>M0525793B</td></tr><tr><td>Scanner</td><td>Ver.01.03</td><td>M0525777B</td></tr><tr><td>Web Uapl</td><td>Ver.1.02</td><td>M0525789B</td></tr></table>			Network DocBox	Ver.1.04	M0525793B	Scanner	Ver.01.03	M0525777B	Web Uapl	Ver.1.02	M0525789B
Network DocBox	Ver.1.04	M0525793B										
Scanner	Ver.01.03	M0525777B										
Web Uapl	Ver.1.02	M0525789B										
01.02	1st Mass production											

**Reissued: 02-Aug-13**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052013b
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**RTB Reissue**

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

Subject: Firmware Release Note: Web Support		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Web Support**.

Version	Program No.	Effective Date	Availability of RFU
<b>1.03</b>	<b><i>M0525788C</i></b>	<b><i>September 2013 production</i></b>	<b><i>Available</i></b>
1.02	M0525788B	April 2012 production	Available
1.01	M0525788A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b>1.03</b>	<b><i>Symptom corrected:</i></b> - <b><i>When using web development tools like Firebug in Web Image Monitor, users who do not have authority for editing might even be able to edit the administrative privileges of each.</i></b>  <b><i>Other changes:</i></b> - <b><i>Compliant with Blue Angel regulations.</i></b> <b><i>Note. Please be sure to update the following firmware in order to apply all the changes for the Blue Angel:</i></b> <b><i>System v2.05 (M0525771J) or later</i></b>
1.02	Other changes: Customer can set the password to access address book.
1.01	1st Mass production

**Reissued: 06-Oct-11**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052014a
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**RTB Reissue**

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

Subject: Firmware Release Note: Web Uapl		Prepared by: T. Hirai	
From: MFP/Printer Tech Service Dept., 3rd Tech Service Sect.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Web Uapl**.

Version	Program No.	Effective Date	Availability of RFU
<b>1.02</b>	<b><i>M0525789B</i></b>	<b><i>October 2011 production</i></b>	<b><i>Available</i></b>
1.01	M0525789A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected		
1.02	<b><i>Other changes:</i></b> <b><i>Scan to file would not allow the creation of PDF files if the "Master Password" setting was configured but the "Document Password" setting was not. After the fix, Scan to file will now allow the creation of PDF files under these conditions.</i></b>		
	<b><i>This firmware is dependent on the following firmware modules. Please be sure to update all of them:</i></b>		
	<b><i>Network DocBox</i></b>	<b><i>Ver.1.04</i></b>	<b><i>M0525793B</i></b>
	<b><i>Scanner</i></b>	<b><i>Ver.01.03</i></b>	<b><i>M0525777B</i></b>
	<b><i>Web Uapl</i></b>	<b><i>Ver.1.02</i></b>	<b><i>M0525789B</i></b>
1.01	1st Mass production		

Model: <b>Sh-MF1</b>	Date: 10-Aug-11	No.: RM052015
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Subject: Firmware Release Note: Data Erase Std		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Data Erase Std.**

Version	Program No.	Effective Date	Availability of RFU
1.01m	D3775932	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

**“Available”** The firmware can be updated via RFU or SD card.

**“Not available”:** The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.01m	1st Mass production

**Reissued: 01-Sep-11**

Model: Sh-MF1	Date: 20-Jul-11	No.: RM052016a
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**RTB Reissue**

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

Subject: Firmware Release Note: Engine		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Engine**.

Version	Program No.	Effective Date	Availability of RFU
1.03:03	M0525810B	1st Mass production	<b><i>Not available</i></b>

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.03:03	1st Mass production

Model: <b>Sh-MF1</b>	Date: 10-Aug-11	No.: RM052017
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Subject: Firmware Release Note: Engine(Scanner)		Prepared by: K. Hamada	
From: 1st Overseas Tech Support Sec., 1st PQM 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Engine(Scanner)**.

Version	Program No.	Effective Date	Availability of RFU
1.01:00	M0525820A	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
1.01:00	1st Mass production

**Reissued: 30-Jun-15**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052018f
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**RTB Reissue**

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

Subject: Firmware Release Note: Network Support		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Network Support**.

Version	Program No.	Effective Date	Availability of RFU
<b>10.66</b>	<b><i>M0525792G</i></b>	<b><i>July 2015 production</i></b>	<b><i>Available</i></b>
10.65	M0525792F	December 2012 production	Available
10.64	M0525792E	July 2012 production	Available
10.63	M0525792D	March 2012 production	Available
10.62	M0525792C	October 2011 production	Available
10.61	M0525792B	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available"**: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b>10.66</b>	<b><i>Symptom corrected:</i></b> <b><i>- When simultaneously printing from AppleTalk on a Mac and a protocol other than AppleTalk in Windows, an SC899 error might occur.</i></b>
10.65	Symptom corrected: - SC899 is logged periodically (once a week) and appears on the SMC.  - If "CNAME" is specified as the destination folder, ScanTo Folder will abort.  - When NBT is "OFF", Browse list is not shown if touch the Browse Network button on destination folder of Scan to folder.  - Cannot scan to shared folders in Windows 8 and Windows Server 2012.  - Cannot scan to shared folders in Mac OS X 10.7 or Mac OS X 10.8. This firmware is dependent on the following firmware modules. Please be sure to update all of them: System/Copy firmware v2.04(M0525771H) or later

**Reissued: 30-Jun-15**

Model: Sh-MF1		Date: 10-Aug-11	No.: RM052018f
Version	Modified Points or Symptom Corrected		
10.64	Symptom corrected: <ol style="list-style-type: none"><li>1. SC991 might occur and network functions could not be used. This occurs if DHCP and DDNS are both enabled in the device and if the DHCP server distributes to the device an FQDN that is more than 127 byte in length.</li><li>2. Device applications or services that use any of port 80, 443, 7443 or 7444 could not be used. This occurs if the illegal packet is sent after SSL negotiation handshake to any of the device's TCP ports 443, 7443 or 7444. Affected applications include Web Image Monitor, IPP Printing and @Remote.</li></ol>		
10.63	Minor changes.		
10.62	Symptom corrected: <ol style="list-style-type: none"><li>1. Use of an IP address to send a Scan to SMB might result in the scanned document not being sent.</li><li>2. Scan to SMB fails if the both of the following conditions are met.<ul style="list-style-type: none"><li>- Either the device has NBT disabled or it is enabled but the device is unable to resolve the destination's NetBIOS name.</li><li>- One or more octets in the destination's IPv4 address contain leading zeros.</li></ul></li><li>3. If the device's IPP Authentication setting is enabled, the driver cannot be installed on Windows 2008 R2 SP1 or 7 SP1 using an IPP port.</li><li>4. Jobs were intermittently cancelled if "LPR Byte Counting Enabled" was unchecked for LPR ports.</li></ol>		
10.61	1st Mass production		



**Reissued: 03-Oct-11**

Model: Sh-MF1	Date: 10-Aug-11	No.: RM052020a
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**RTB Reissue**

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

Subject: Firmware Release Note: App2Me		Prepared by: H. Tamaki	
From: MFP/Printer Tech Service Dept., 1st Tech Service Sect.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **App2Me**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.5.700</i></b>	<b><i>M0525739A</i></b>	<b><i>November 2011 production</i></b>	<b><i>Not available</i></b>
1.5.600	M0525739	1st Mass production	Not available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available":** The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b><i>1.5.700</i></b>	<b><i>Other changes: User log-out function by a Reset Key.</i></b>
1.5.600	1st Mass production

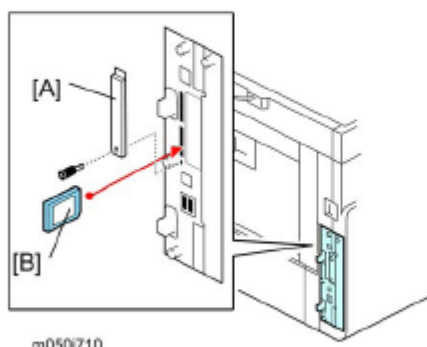
Model: Sh-MF1		Date: 26-Oct-11	No.: RM052021
Subject: Installation procedure was updated		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Please do not execute the following information on page 30 of FSM (strike out in red) when installing the machine.

## 2. Installation

10. Install the AIO into the machine.

11. Close the front door.



12. Remove the SD slot cover [A] ( 1 x 1).

13. Install the VM card [B] provided in the accessories in the SD slot 2 (lower).

14. Attach the SD slot cover [A] ( 1 x 1).

15. Plug in the machine, and then turn on the machine.

16. Start the SP mode.

~~17. Select SP5-801-001 and execute the initialization.~~

~~18. Exit the SP mode, and then start the UP mode.~~

~~19. Select the "Remote Service" (User Tool > System Settings > Administrator Tools > Extended Security > Remote Service) and select "Prohibit".~~

~~20. Exit the UP mode, and then start the SP mode.~~

~~21. Select SP5-870-003 and execute initialization for Remote.~~

~~22. Select SP5-907-001 and specify the "Plug & Play".~~

~~23. Select SP5-870-001 and execute writing certification for Remote S.~~

24. Select SP5-302-002 and specify the time zone.

25. Select SP5-307-001, 003, and 004 and specify the daylight-saving-time settings.

26. Exit the SP mode and turn the main switch off and on.

27. Start the UP mode.

28. Specify the date and time with "Set Date" or "Set Time" (User Tool > System Settings > "Set Date" or "Set Time").

29. Turn the main switch off and on.

30. Check the operations.

**Reissued: 12-Apr-12**

Model: Sh-MF1	Date: 15-Nov-11	No.: RM052022a
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**RTB Reissue**

The items in bold italics have been corrected or added.

Subject: Firmware Release Note: (Java VM v7 std for eDC)		Prepared by: H. Tamaki	
From: 1st Tech Service Sect., MFP/Printer Tech Service 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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Java VM v7 std for eDC**.

Version	Program No.	Effective Date
<b>7.17.04</b>	<b><i>M0525738C_edc</i></b>	<b><i>February 2012 production</i></b>
7.16.07	M0525738B_edc	November 2011 production

Version	Modified Points or Symptom Corrected
<b>7.17.04</b>	<b><i>Other changes:</i></b> <b><i>1. A software button was added to the Copier screen, which can be assigned to specific SDK applications.</i></b> <b><i>Note: In order to utilize this change, the SDK application itself must also support this functionality. For details, see the Release Notes for each application.</i></b> <b><i>2. Software Keyboard type was changed for Taiwan model.</i></b>
7.16.07	Initial release

Model: Sh-MF1		Date: 09-Nov-11	No.: RM052023
Subject: CPU and firmware Change Notification		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

## Important Information about Engine PCB Replacement

### Background

Due to the March 11 earthquake and tsunami disaster in the Tohoku region of Japan, many production facilities in the area suffered extensive damage. This has caused an interruption in the supply of electrical parts for engine PCBs used on Ricoh products. To continue machine production, a different type of CPU had to be used on engine PCBs.

### Service parts changes

- As a result, a modified version of the engine firmware is preloaded on boards that use the new CPU. This change is shown in the first line in the table below.

**Note:** There is **no difference** in machine function or performance. This is why the interchangeability of boards with the old and new CPUs is O/O.

- The board containing the old CPU (and old firmware) is still available to order, under a new part number. This is shown in the second line in the table below.

**Note:** This is because some machines in the field still require the old firmware version (e.g. customized machines, locally tested/approved machines).

Old Part Number	New Part Number	Description	I/C
M0525010	M0525011	PCB:EGB:Ass'y	O/O
-	M0525012	PCB:EGB:Sh-MF1:Ass'y	

**Cut-in : From October 1<sup>st</sup> 2011 production**

### Important notes

Make sure to keep the following in mind:

- Update the **System** firmware to the new version (v2.00 or newer) **before** updating the Engine firmware. This is because with the new System firmware, the appropriate Engine firmware version to use is displayed on the operation panel.

	Old System FW(V.1.03)	New System FW (V.2.00 or later)
Old Engine FW (V1.03:03)	Displays old Engine F/W	Displays old Engine F/W
New Engine FW (V.A2.0:20)	Cannot display Engine F/W (Engine F/W cannot be updated)	<b>Displays the new Engine F/W version</b>



- If you replace the engine board on a machine that still requires the old firmware version, as mentioned above, please order the board using P/N M0525012.

Model: <b>Sh-MF1</b>	Date: 23-Nov-11	No.: RM052024
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Subject: Firmware Release Note: Engine(2ndCPU)		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/Printer Tech Service D			
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"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Engine (2ndCPU)**.

Version	Program No.	Effective Date	Availability of RFU
A2.0:20	M0525811	1st Mass production	Not Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
A2.0:20	1st Mass production

**Reissued: 12-Apr-12**

Model: Sh-MF1	Date: 07-Dec-11	No.: RM052025a
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**RTB Reissue**

The items in bold italics have been added.

Subject: Firmware Release Note: Java VM v7 std Update Tool		Prepared by: H. Tamaki	
From: 1st Tech Service Sect., MFP/Printer Tech Service 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"/> Product Safety <input checked="" type="checkbox"/> Other (Firmware) <input checked="" type="checkbox"/> Tier 2		

This RTB has been issued to announce the firmware release information for the **Java VM v7 std Update Tool**.

Version	Program No.	Effective Date	Availability of RFU
<b>7.17.04</b>	<b><i>M0525738C_upd</i></b>	<b><i>February 2012 production</i></b>	<b><i>Not available</i></b>
7.16.07	M0525738B_upd	November 2011 production	Not available
-	-	1st Mass production	Not available

**Note: Definition of Availability of RFU via @Remote**

“Available”: The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b>7.17.04</b>	<b><i>Other changes:</i></b> <b><i>1. A software button was added to the Copier screen, which can be assigned to specific SDK applications.</i></b> <b><i>Note: In order to utilize this change, the SDK application itself must also support this functionality. For details, see the Release Notes for each application.</i></b> <b><i>2. Software Keyboard type was changed for Taiwan model.</i></b>
7.16.07	Symptom corrected: 1. SDK/J starting logo screen does not change. 2. Vulnerability to the re-negotiation of SSL/TLS. 3. Multi installation to HDD fails for VM card Type-C applications. 4. Other minor bug corrections.  Other changes: 1. Kerberos certification corresponding to RC4-HMAC code form. 2. VM card Type-C application remote installation. 3. Support for eDC-i1.2.
-	1st Mass production

Model: Sh-MF1		Date: 14-Dec-11	No.: RM052026
Subject: Optional Counter Interface Unit Type A Installation procedure		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

## Optional Counter Interface Unit Type A installation procedure

1. Remove the left cover.



2. Install the four stud stays in the location [A].



3. Install the optional counter interface board on the four stud stays.



4. Connect the harness to CN3 [A] on the optional counter interface board.

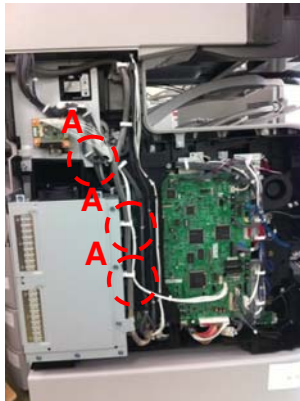
Model: Sh-MF1

Date: 14-Dec-11

No.: RM052026



5. Connect the other terminal of the harness to “CN234” [A] on the BCU.



6. Route the harness and clamp it with three clamps [A] as shown above.



7. Cut off the part [A] of the rear cover.



8. Connect the harness from the optional counter device to “CN4” [A] on the optional counter interface board through the cut off part of the rear cover.

9. Reassemble the machine.



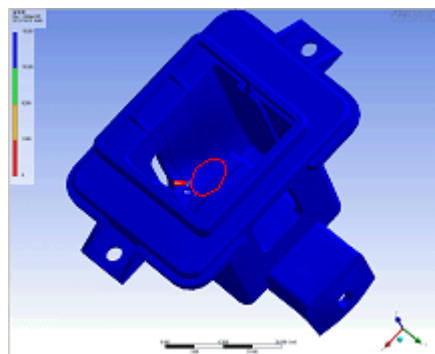
Model: Model Sh-MF1		Date: 27-Dec-11	No.: RM052027
Subject: Left Hinge Holder		Prepared by: T.Hirai	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

## SYMPTOM

- Holder: Hinge left (M0261730) was broken.

## CAUSE

Stress concentrates on the red circle in the picture and the break start from there.



## SOLUTION

### In the field:

Replace the LEFT Hinge Holder (**see the procedure below**).

### Service parts:

Change the DF hinge holder to the new modification part.

Old Part Number	New Part Number	Description	Q'ty	Int
M0261730	<b>M0269901</b>	LEFT HINGE HOLDER	1	X/O

Model: Model Sh-MF1

Date: 27-Dec-11

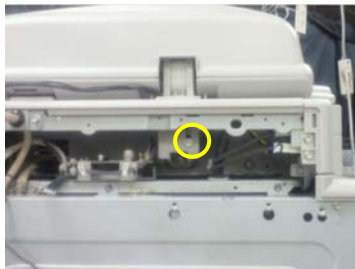
No.: RM052027

**Left Hinge Holder Replacement Procedure**

1. Remove the rear upper/lower cover. 6 screws



2. Remove the screw. 1 screw



3. Open the ADF.



4. Put the sponge on the scanner glass.



5. Remove the ADF by pulling it up as shown by the arrow in the picture.



Model: Model Sh-MF1

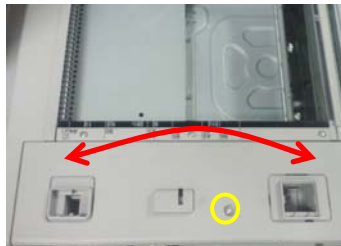
Date: 27-Dec-11

No.: RM052027

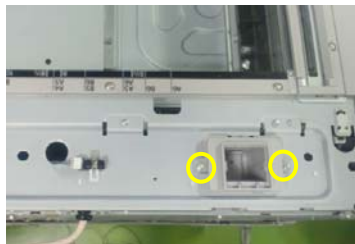
6. Put ADF on the Scanner. **Important:** To prevent damage to the ADF cable, please loosen the cable (yellow circle). Wipe off the oil dirt on the surface of the DF hinge bottom part with alcohol and cloth to prevent dirt on the exposure glass.(Red circle)



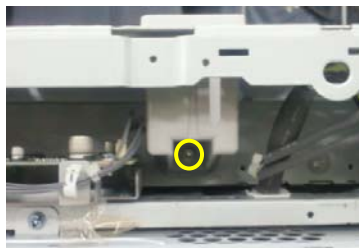
7. Remove the scanner cover, push at the red arrow in the picture. 1 screw



8. Remove the screws on the left hand of the hinge holder. 2 screw



9. Remove the screw. 1 screw



10. Pull the left hinge holder as shown by the red arrow in the picture.




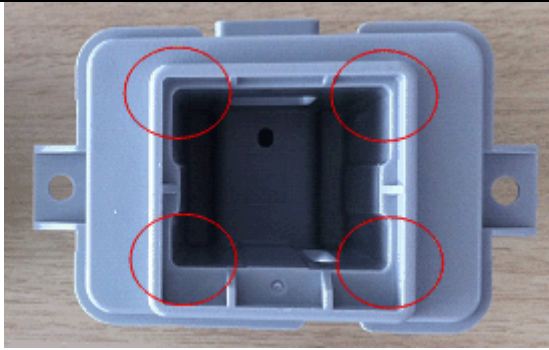
11. Re-assemble the new hinge holder in the reverse order of the steps above.

Model: Model Sh-MF1

Date: 27-Dec-11

No.: RM052027

## How to distinguish the new parts from the old parts

Old Parts: The edges are sharp.	New Parts: The edges are round.
	

## Cut-in serial number

.Model Name	Product Code	Cut-in Serial Number
SP 5200S	M05267	S90YMMXXXXX
SP 5210SF	M05367	S91YMMXXXXX
5210SR	M05467	S92YMMXXXXX
SP 5200S	M05257	S9019400546~
SP 5210SF	M05357	S9119400501~
5210SR	M05457	S9219400653~
SP 5200S	M05269	S9019501152~
SP 5210SF	M05369	S9119501037~
5210SR	M05469	S9219500650~

Model: Model Sh-MF1

Date: 27-Dec-11

No.: RM052027

The new left hinge holder has **already been installed** to the following machines, which were reworked before being released to the field: **RIF**

serial number	serial number	serial number	serial number	serial number	serial number	serial number
S9014700434	S9014700455	S9014700530	S9014700595	S9014800045	S9014800160	S9214800005
S9014700435	S9014700456	S9014700531	S9014700596	S9014800046	S9014800161	S9214800006
S9014700436	S9014700457	S9014700532	S9014700597	S9014800097	S9014800162	S9214800007
S9014700509	S9014700458	S9014700533	S9014700598	S9014800098	S9014800163	S9214800008
S9014700510	S9014700459	S9014700534	S9014700599	S9014800099	S9014800164	S9214800009
S9014700511	S9014700460	S9014700535	S9014700600	S9014800100	S9014800165	S9214800010
S9014700512	S9014700461	S9014700536	S9014700601	S9014800101	S9014800166	S9214800011
S9014700513	S9014700462	S9014700537	S9014700602	S9014800102	S9014800167	S9214800012
S9014700514	S9014700463	S9014700538	S9014700603	S9014800103	S9014800168	S9214800013
S9014700515	S9014700464	S9014700539	S9014700604	S9014800104	S9014800169	S9214800014
S9014700516	S9014700465	S9014700540	S9014700605	S9014800105	S9014800170	S9214800015
S9014700517	S9014700466	S9014700541	S9014700606	S9014800106	S9114700066	S9214800016
S9014700518	S9014700467	S9014700542	S9014700607	S9014800107	S9114800009	S9214800017
S9014800047	S9014700468	S9014700543	S9014700608	S9014800108	S9114800010	S9214800018
S9014800048	S9014700469	S9014700544	S9014700609	S9014800109	S9114800011	S9214800019
S9014800049	S9014700470	S9014700545	S9014700610	S9014800110	S9114800012	S9214800020
S9014800050	S9014700471	S9014700546	S9014700611	S9014800111	S9114800013	S9214800021
S9014800051	S9014700472	S9014700547	S9014700612	S9014800112	S9114800014	S9214800022
S9014800052	S9014700473	S9014700548	S9014700613	S9014800113	S9114800015	S9214800023
S9014800053	S9014700474	S9014700549	S9014700614	S9014800114	S9114800016	S9214800024
S9014800054	S9014700475	S9014700550	S9014700615	S9014800115	S9114800017	S9214800025
S9014800055	S9014700476	S9014700551	S9014800001	S9014800116	S9114800018	
S9014800056	S9014700477	S9014700552	S9014800002	S9014800117	S9114800019	
S9014800057	S9014700478	S9014700553	S9014800003	S9014800118	S9114700056	
S9014800058	S9014700479	S9014700554	S9014800004	S9014800119	S9114700057	
S9014800059	S9014700480	S9014700555	S9014800005	S9014800120	S9114700058	
S9014800060	S9014700481	S9014700556	S9014800006	S9014800121	S9114700059	
S9014800061	S9014700482	S9014700557	S9014800007	S9014800122	S9114700067	
S9014800062	S9014700483	S9014700558	S9014800008	S9014800123	S9114800001	
S9014800063	S9014700484	S9014700559	S9014800009	S9014800124	S9114800002	
S9014800064	S9014700485	S9014700560	S9014800010	S9014800125	S9114800003	
S9014800065	S9014700486	S9014700561	S9014800011	S9014800126	S9214700036	
S9014800066	S9014700487	S9014700562	S9014800012	S9014800127	S9214700037	
S9014800067	S9014700488	S9014700563	S9014800013	S9014800128	S9214700038	
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## REI

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1	0	7	6	4	8	5	5	3	3
S901910021	S901910031	S901910041	S901920008	S901920020	S901930009	S901930017	S901930024	S901930032	S901940034
2	1	8	8	5	9	6	6	4	0
S901910021	S901910031	S901910042	S901920009	S901920020	S901930010	S901930017	S901930024	S901930032	S901940034
3	2	1	0	7	0	7	7	5	1
S901910021	S901910031	S901910042	S901920009	S901920022	S901930010	S901930017	S901930024	S901940004	S901940034
4	3	2	1	1	3	8	8	8	3
S901910021	S901910031	S901910042	S901920009	S901920022	S901930010	S901930017	S901930024	S901940007	S901940036
6	5	3	2	6	4	9	9	8	0
S901910021	S901910031	S901910042	S901920009	S901920022	S901930010	S901930018	S901930025	S901940008	S901940036
7	6	6	7	7	5	0	0	6	1
S901910021	S901910031	S901910042	S901920009	S901920022	S901930010	S901930018	S901930025	S901940009	S901940036
8	9	8	8	8	9	1	1	0	2
S901910021	S901910032	S901910054	S901920010	S901920022	S901930011	S901930018	S901930025	S901940009	S901940036
9	1	1	1	9	0	2	2	1	3
S901910022	S901910032	S901910054	S901920010	S901920023	S901930011	S901930018	S901930025	S901940009	S901940036
0	2	3	2	0	1	3	3	7	6
S901910022	S901910032	S901910054	S901920010	S901920023	S901930011	S901930018	S901930025	S901940009	S901940037
1	3	5	3	3	2	4	5	8	1
S901910022	S901910032	S901910054	S901920010	S901920023	S901930011	S901930018	S901930025	S901940009	S901940037
2	4	6	8	4	5	5	6	9	4
S901910022	S901910032	S901910054	S901920011	S901920023	S901930011	S901930018	S901930025	S901940010	S901940037
3	8	7	0	5	7	6	9	4	5
S901910022	S901910032	S901910054	S901920011	S901920023	S901930012	S901930018	S901930026	S901940010	S901940038
4	9	8	1	6	1	7	2	5	8
S901910022	S901910033	S901910054	S901920011	S901920023	S901930012	S901930018	S901930026	S901940011	S901940038
5	0	9	5	7	2	8	5	7	9
S901910022	S901910033	S901910055	S901920011	S901920023	S901930012	S901930018	S901930026	S901940012	S901940039
7	2	0	6	8	3	9	6	3	1
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8	5	1	7	3	4	0	7	4	9
S901910022	S901910033	S901910055	S901920012	S901930000	S901930012	S901930019	S901930027	S901940012	S901940040
9	6	3	0	5	5	1	0	5	1
S901910023	S901910033	S901920000	S901920012	S901930000	S901930012	S901930019	S901930027	S901940012	S901940040
0	8	1	1	6	6	2	1	6	4
S901910023	S901910033	S901920000	S901920012	S901930000	S901930012	S901930019	S901930027	S901940012	S901940041
2	9	2	4	7	7	3	2	7	0
S901910023	S901910034	S901920000	S901920012	S901930000	S901930012	S901930019	S901930027	S901940012	S901940041
4	0	3	8	8	8	4	3	8	2
S901910023	S901910034	S901920000	S901920013	S901930000	S901930012	S901930019	S901930027	S901940012	S901940041
5	1	6	0	9	9	5	4	9	3
S901910023	S901910034	S901920000	S901920013	S901930001	S901930013	S901930019	S901930027	S901940013	S901940041
6	4	7	2	5	0	6	5	0	4
S901910023	S901910034	S901920000	S901920013	S901930001	S901930013	S901930019	S901930027	S901940013	S901940042
8	6	9	3	6	1	7	6	1	0
S901910023	S901910035	S901920001	S901920013	S901930001	S901930013	S901930019	S901930027	S901940013	S901940042
9	2	3	7	8	2	8	7	2	1
S901910024	S901910035	S901920001	S901920013	S901930002	S901930013	S901930019	S901930027	S901940013	S901940042
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S901910024	S901910035	S901920001	S901920014	S901930002	S901930013	S901930020	S901930027	S901940013	S901940042
3	5	8	0	5	4	0	9	4	5
S901910024	S901910035	S901920001	S901920014	S901930002	S901930013	S901930020	S901930028	S901940013	S901940042
5	7	9	1	7	5	1	1	5	7
S901910024	S901910035	S901920002	S901920014	S901930002	S901930013	S901930020	S901930028	S901940013	S901940042
7	8	2	2	8	6	3	2	6	8
S901910024	S901910036	S901920002	S901920014	S901930002	S901930013	S901930020	S901930028	S901940013	S901940043
9	1	3	3	9	7	4	3	7	1
S901910025	S901910036	S901920002	S901920014	S901930003	S901930013	S901930020	S901930028	S901940013	S901940043
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1	4	7	5	1	9	6	5	9	7
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7	5	8	6	4	0	7	6	0	2
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S901910025	S901910036	S901920003	S901920014	S901930003	S901930014	S901930020	S901930028	S901940014	
9	8	2	8	8	2	9	8	2	
S901910026	S901910036	S901920003	S901920014	S901930004	S901930014	S901930021	S901930028	S901940014	

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S911910000 5	S911910016 0	S911920004 1	S911930003 8	S911930017 6	S911930034 6	S911930044 7	S911930053 9	S911940011 4	S911940018 3
S911910001 8	S911910016 1	S911920004 2	S911930003 9	S911930017 7	S911930034 7	S911930044 8	S911930054 2	S911940011 5	S911940018 4
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S911910002 7	S911910016 6	S911920004 4	S911930004 1	S911930018 1	S911930035 1	S911930045 0	S911940000 4	S911940011 9	S911940018 7
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S911910008 4	S911910021 0	S911920018 8	S911930012 1	S911930027 0	S911930039 8	S911930047 8	S911940005 1	S911940014 5	S911940022 3
S911910008 8	S911910021 1	S911920019 1	S911930012 3	S911930027 1	S911930039 9	S911930048 1	S911940005 2	S911940014 6	S911940022 4
S911910009 3	S911910021 2	S911920019 2	S911930012 4	S911930027 2	S911930040 0	S911930048 3	S911940005 4	S911940014 7	S911940022 5
S911910009 5	S911910021 3	S911920019 3	S911930012 9	S911930027 4	S911930040 2	S911930048 4	S911940005 6	S911940014 8	S911940022 6
S911910009 6	S911910021 5	S911920019 5	S911930013 4	S911930027 7	S911930040 3	S911930048 5	S911940005 8	S911940014 9	S911940022 7
S911910009 9	S911910021 8	S911920019 7	S911930013 5	S911930027 8	S911930040 4	S911930049 4	S911940005 9	S911940015 0	S911940023 0
S911910010 1	S911910021 9	S911920019 9	S911930013 7	S911930027 9	S911930040 5	S911930049 5	S911940006 0	S911940015 1	S911940023 1
S911910010 2	S911910022 1	S911920020 0	S911930013 8	S911930028 1	S911930040 6	S911930049 6	S911940006 2	S911940015 2	S911940023 2
S911910010 3	S911910022 2	S911920020 2	S911930013 9	S911930028 4	S911930040 7	S911930049 7	S911940006 3	S911940015 3	S911940023 3
S911910010 4	S911910022 3	S911920020 3	S911930014 0	S911930028 5	S911930041 0	S911930049 8	S911940006 4	S911940015 4	S911940023 4
S911910010 6	S911910022 5	S911920020 6	S911930014 1	S911930028 6	S911930041 1	S911930049 9	S911940006 5	S911940015 5	S911940023 5
S911910010 7	S911910022 6	S911920021 0	S911930014 2	S911930028 7	S911930041 3	S911930050 1	S911940006 8	S911940015 6	S911940023 6
S911910011 1	S911910022 7	S911920021 1	S911930014 5	S911930028 8	S911930041 4	S911930050 2	S911940007 0	S911940015 7	S911940023 7



Model: Model Sh-MF1	Date: 27-Dec-11	No.: RM052027
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S911910011	S911910022	S911920021	S911930014	S911930029	S911930041	S911930050	S911940007	S911940015	S911940023
4	8	2	7	1	6	3	1	8	8
S911910011	S911910022	S911920021	S911930014	S911930029	S911930041	S911930050	S911940007	S911940015	S911940023
7	9	3	8	2	7	4	2	9	9
S911910012	S911910023	S911920021	S911930014	S911930030	S911930041	S911930050	S911940007	S911940016	S911940024
2	0	4	9	1	8	5	7	0	0
S911910012	S911910023	S911920021	S911930015	S911930030	S911930042	S911930050	S911940007	S911940016	S911940024
3	1	6	0	2	0	7	9	1	1
S911910012	S911910023	S911920021	S911930015	S911930030	S911930042	S911930050	S911940008	S911940016	S911940024
4	3	8	1	4	1	8	3	3	3
S911910012	S911910023	S911920021	S911930015	S911930030	S911930042	S911930051	S911940008	S911940016	S911940024
5	4	9	4	5	2	1	6	4	4
S911910012	S911910023	S911920022	S911930015	S911930030	S911930042	S911930051	S911940008	S911940016	S911940024
6	5	5	5	6	4	7	7	5	5
S911910012	S911910023	S911920023	S911930015	S911930030	S911930042	S911930051	S911940008	S911940016	S911940024
7	6	0	6	9	5	9	9	6	7
S911910013	S911910023	S911930000	S911930015	S911930031	S911930042	S911930052	S911940009	S911940016	S911940024
1	8	2	7	0	8	0	1	8	8
S911910013	S911910024	S911930000	S911930015	S911930031	S911930042	S911930052	S911940009	S911940016	S911940025
2	1	7	9	1	9	2	2	9	2
S911910013	S911910024	S911930000	S911930016	S911930031	S911930043	S911930052	S911940009	S911940017	S911940025
3	2	9	0	6	0	3	3	0	5
S911910013	S911910024	S911930001	S911930016	S911930031	S911930043	S911930052	S911940009	S911940017	S911940025
4	4	0	1	7	1	4	5	1	8
S911910013	S911910024	S911930001	S911930016	S911930031	S911930043	S911930052	S911940009	S911940017	S911940026
5	5	2	2	8	2	5	7	2	0
S911910013	S911910024	S911930001	S911930016	S911930032	S911930043	S911930052	S911940009	S911940017	S911940026
6	6	7	3	2	4	6	9	3	6
S911910014	S911910024	S911930002	S911930016	S911930032	S911930043	S911930052	S911940010	S911940017	S911940027
0	7	5	4	3	5	8	1	4	4
S911910014	S911910024	S911930002	S911930016	S911930032	S911930043	S911930053	S911940010	S911940017	S911940027
3	8	7	5	7	6	0	3	5	6
S911910014	S911910025	S911930002	S911930016	S911930033	S911930043	S911930053	S911940010	S911940017	S911940028
5	0	8	7	0	7	1	6	6	0
S911910014	S911910025	S911930002	S911930016	S911930033	S911930043	S911930053	S911940010	S911940017	S911940028
8	2	9	8	3	8	2	7	7	6
S911910015	S911910025	S911930003	S911930017	S911930033	S911930043	S911930053	S911940010	S911940017	S911940028
3	3	0	1	6	9	3	8	8	7
S911910015	S911910025	S911930003	S911930017	S911930033	S911930044	S911930053	S911940010	S911940017	S911940028
6	4	3	2	9	2	4	9	9	9
S911910015	S911910025	S911930003	S911930017	S911930034	S911930044	S911930053	S911940011	S911940018	S911940029
7	9	4	3	2	3	5	1	0	0
S911910015	S911920003	S911930003	S911930017	S911930034	S911930044	S911930053	S911940011	S911940018	S911940029
8	5	5	4	3	5	7	2	1	2

SERIAL NO.	SERIAL NO.		SERIAL NO.	SERIAL NO.	SERIAL NO.	SERIAL NO.	SERIAL NO.	SERIAL NO.
S911940029	S911940045		S921910002	S921910019	S921920001	S921930004	S921940015	S921940032
5	9		6	7	1	0	4	4
S911940029	S911940046		S921910003	S921910019	S921920001	S921930006	S921940018	S921940032
6	0		0	8	7	4	2	5
S911940029	S911940046		S921910003	S921910020	S921920002	S921930007	S921940018	S921940032
7	1		3	0	0	5	7	6
S911940029	S911940046		S921910003	S921910020	S921920002	S921930007	S921940019	S921940032
8	2		4	1	2	6	7	7
S911940030	S911940046		S921910003	S921910020	S921920002	S921930007	S921940020	S921940032
4	3		6	5	6	8	4	8
S911940030	S911940046		S921910004	S921910020	S921920003	S921930008	S921940020	S921940032
5	4		3	6	5	5	5	9
S911940030	S911940046		S921910004	S921910020	S921920003	S921930008	S921940020	S921940033
7	6		4	7	6	7	6	0
S911940030	S911940046		S921910004	S921910021	S921920003	S921930009	S921940020	S921940033
8			7	4	7	1	7	1
S911940030	S911940046		S921910004	S921910021	S921920003	S921930020	S921940021	S921940033
9	9		8	8	9	4	2	4
S911940031	S911940047		S921910004	S921910021	S921920004	S921930022	S921940021	S921940033
3	0		9	9	0	3	3	5
S911940031	S911940047		S921910005	S921910022	S921920004	S921940000	S921940021	S921940034
4	2		0	1	8	1	4	1
S911940031	S911940047		S921910005	S921910022	S921920005	S921940000	S921940021	S921940034
5	3		3	2	2	6	5	2

Model: Model Sh-MF1

Date: 27-Dec-11

No.: RM052027

S911940031 6	S911940047 4		S921910005 9	S921910022 3	S921920005 5	S921940000 7	S921940021 6	S921940035 5
S911940031 9	S911940047 5		S921910006 4	S921910022 5	S921920006 8	S921940000 9	S921940021 8	S921940035 6
S911940032 2	S911940047 7		S921910006 5	S921910022 7	S921920007 0	S921940001 3	S921940021 9	S921940035 9
S911940032 3	S911940048 1		S921910006 6	S921910023 1	S921920007 1	S921940001 5	S921940022 0	S921940036 0
S911940032 4	S911940048 2		S921910006 8	S921910023 2	S921920007 5	S921940002 6	S921940022 1	S921940037 2
S911940032 7	S911940048 3		S921910007 0	S921910023 3	S921920008 0	S921940002 9	S921940022 4	S921940037 7
S911940033 0	S911940048 7		S921910007 1	S921910023 4	S921920008 7	S921940003 0	S921940022 6	S921940038 8
S911940033 1	S911940048 8		S921910007 9	S921910023 6	S921920008 9	S921940003 1	S921940022 7	S921940038 9
S911940033 2	S911940048 9		S921910008 2	S921910024 1	S921920009 0	S921940003 2	S921940022 8	S921940039 0
S911940033 5	S911940049 3		S921910008 3	S921910024 2	S921920009 1	S921940003 3	S921940023 0	S921940039 1
S911940033 7	S911940049 4		S921910008 9	S921910024 4	S921920009 2	S921940003 4	S921940023 1	S921940039 8
S911940033 8	S911940049 5		S921910009 0	S921910024 6	S921920009 3	S921940003 5	S921940023 3	S921940041 0
S911940033 9	S911940049 6		S921910009 2	S921910024 7	S921920009 4	S921940003 6	S921940023 5	S921940042 0
S911940034 0	S911940049 7		S921910009 5	S921910025 1	S921920009 5	S921940003 7	S921940023 6	S921940042 1
S911940034 1			S921910009 6	S921910025 7	S921920009 6	S921940003 8	S921940023 8	S921940042 7
S911940034 2			S921910009 8	S921910025 8	S921920010 3	S921940004 0	S921940023 9	S921940042 8
S911940034 5			S921910009 9	S921910026 5	S921920010 5	S921940004 2	S921940024 1	S921940043 5
S911940034 7			S921910010 1	S921910026 6	S921920010 7	S921940004 3	S921940025 2	S921940045 8
S911940034 8			S921910010 9	S921910027 1	S921920011 8	S921940004 4	S921940025 6	S921940045 9
S911940034 9			S921910011 4	S921910027 2	S921920011 9	S921940004 5	S921940026 2	S921940046 0
S911940035 0			S921910011 6	S921910027 3	S921920012 1	S921940004 6	S921940026 4	S921940046 2
S911940035 1			S921910012 1	S921910027 5	S921920012 9	S921940004 7	S921940026 5	S921940046 3
S911940035 2			S921910012 2	S921910027 6	S921920013 2	S921940004 8	S921940026 7	S921940046 5
S911940035 3			S921910012 3	S921910028 2	S921920013 4	S921940004 9	S921940026 8	S921940046 8
S911940036 5			S921910012 4	S921910028 3	S921920013 9	S921940005 0	S921940026 9	S921940046 9
S911940036 9			S921910012 5	S921910028 5	S921920014 4	S921940005 2	S921940027 0	S921940047 0
S911940038 6			S921910012 7	S921910028 6	S921920014 5	S921940005 3	S921940027 3	S921940047 1
S911940038 9			S921910012 8	S921910029 0	S921920014 9	S921940005 4	S921940027 4	S921940047 2
S911940039 1			S921910012 9	S921910029 1	S921920015 1	S921940005 5	S921940027 5	S921940047 3
S911940039 7			S921910013 2	S921910029 3	S921920015 4	S921940005 6	S921940027 6	S921940047 4
S911940040 3			S921910014 0	S921910029 4	S921920015 9	S921940006 1	S921940027 7	S921940047 6
S911940040 5			S921910014 2	S921910029 8	S921920016 0	S921940006 3	S921940027 8	S921940047 9
S911940040 8			S921910015 0	S921910030 0	S921920016 2	S921940006 4	S921940027 9	S921940048 0
S911940041 0			S921910015 1	S921910030 1	S921920016 3	S921940006 8	S921940028 0	S921940048 2
S911940041 1			S921910015 3	S921910030 2	S921920016 5	S921940006 9	S921940028 1	S921940049 1
S911940041 2			S921910015 4	S921910030 5	S921920017 0	S921940008 6	S921940028 2	S921940049 2
S911940041 8			S921910015 6	S921910030 6	S921920017 2	S921940009 0	S921940028 3	S921940049 4

Model: Model Sh-MF1	Date: 27-Dec-11	No.: RM052027
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S911940041			S921910015	S921910030	S921920017	S921940009	S921940028	S921940049
9			9	8	3	2	5	5
S911940042			S921910016	S921910031	S921920017	S921940009	S921940028	S921940049
1			1	0	4	3	6	6
S911940042			S921910016	S921910031	S921920017	S921940009	S921940028	S921940049
4			6	6	9	4	7	7
S911940042			S921910016	S921910031	S921920019	S921940009	S921940028	S921940049
5			7	8	2	6	8	8
S911940042			S921910017	S921910031	S921920019	S921940009	S921940030	S921940049
8			0	9	4	8	0	9
S911940043			S921910017	S921910032	S921920019	S921940010	S921940030	S921940050
0			6	4	5	3	4	2
S911940043			S921910017	S921910032	S921920020	S921940010	S921940030	S921940052
2			8	7	1	8	6	9
S911940043			S921910018	S921910032	S921920020	S921940010	S921940030	
3			1	9	8	9	7	
S911940043			S921910018	S921910033	S921920020	S921940011	S921940030	
6			3	0	9	8	8	
S911940043			S921910018	S921910033	S921920021	S921940011	S921940030	
7			7	1	8	9	9	
S911940044			S921910018	S921920000	S921920022	S921940012	S921940031	
0			8	2	5	3	4	
S911940044			S921910018	S921920000	S921930001	S921940012	S921940031	
1			9	3	0	6	9	
S911940044			S921910019	S921920000	S921930001	S921940013	S921940032	
7			0	5	2	7	0	
S911940044			S921910019	S921920000	S921930002	S921940014	S921940032	
9			1	6	2	9	1	
S911940045			S921910019	S921920000	S921930002	S921940015	S921940032	
0			3	9	8	0	2	
S911940045			S921910019	S921920001	S921930003	S921940015	S921940032	
1			6	0	9	3	3	

## SRD

AP		NA	
Serial No	Serial No	Serial No	Serial No
S9019100472	S9019400694	S9019100140	S9219100134
S9019400627	S9019400695	S9019200053	S9219100148
S9019400628	S9019400696	S9019200209	S9219100199
S9019400633	S9019400697	S9019200218	S9219100203
S9019400634	S9019400698	S9019300022	S9219100239
S9019400635	S9019400699	S9019300107	S9219200047
S9019400636	S9219200700	S9019300114	S9219200057
S9019400637	S9219200701	S9019300234	S9219200058
S9019400638	S9219200702	S9019300239	S9219200187
S9019400639	S9219200703	S9019300260	S9219200203
S9019400640	S9219200704	S9019300263	S9219300002
S9019400641	S9219200705	S9019300264	S9219300006
S9019400642	S9219200706	S9019300315	S9219300014
S9019400643	S9219200707	S9019300316	S9219300025
S9019400644	S9219200708	S9019300326	S9219300026
S9019400645	S9219200709	S9019300327	S9219300062
S9019400646	S9219200710	S9019400005	S9219300086
S9019400647	S9219200711	S9019400044	S9219300094
S9019400648	S9219200712	S9019400055	S9219300117
S9019400649	S9219200713	S9019400061	S9219300218
S9019400650	S9219200714	S9019400071	S9219400067
S9019400651	S9219200715	S9019400072	S9219400346
S9019400653	S9219200716	S9019400076	S9219400351
S9019400654	S9219200717	S9019400077	S9219400385
S9019400655	S9219200718	S9019400079	S9219400386
S9019400656	S9219200719	S9019400080	
S9019400657	S9219200720	S9019400082	
S9019400658	S9219200721	S9019400085	
S9019400659	S9219200722	S9019400087	
S9019400660	S9219200723	S9019400089	

Model: Model Sh-MF1		Date: 27-Dec-11	No.: RM052027
S9019400661	S9219200725	S9019400096	
S9019400662	S9219200726	S9019400101	
S9019400663	S9219200727	S9019400102	
S9019400664	S9219200728	S9019400103	
S9019400665	S9219200730	S9019400106	
S9019400666	S9219200731	S9019400107	
S9019400667	S9219200733	S9019400115	
S9019400668	S9219200770	S9019400116	
S9019400669	S9219200782	S9019400118	
S9019400670	S9219200786	S9019400121	
S9019400671	S9219200806	S9019400286	
S9019400672	S9219200811	S9019400320	
S9019400673	S9119100268	S9019400328	
S9019400674	S9119100295	S9019400337	
S9019400675	S9119400853	S9019400338	
S9019400676	S9119400886	S9019400351	
S9019400677	S9219300304	S9019400352	
S9019400678	S9219300556	S9019400353	
S9019400679	S9219300572	S9019400354	
S9019400680	S9219300573	S9019400376	
S9019400681	S9219300574	S9019400407	
S9019400682		S9019400408	
S9019400683		S9019400430	
S9019400684		S9019400433	
S9019400686		S9019400434	
S9019400687		S9019400435	
S9019400688		S9019400455	
S9019400689		S9019400487	
S9019400690		S9019400490	
S9019400691		S9219100017	
S9019400692		S9219100037	
S9019400693		S9219100117	

Model: Model Sh-MF1		Date: 19-Jan-12	No.: RM052028
Subject: SP5045-001		Prepared by: T.Hirai	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## Service Manual Revision

**Replace** the description for SP5045-001 (pg. 236) as follows.

Before:

5045	[Accounting Counter]		
	Selects the counting method. NOTE: The counting method can be changed only once, regardless of whether the counter value is negative or positive.		
001	Counter Method	*CTL	[0 or 1 / 0 / -] 0: Developments 1: Prints

**AFTER:**

5045	[Counter Display Method]		
	Selects the counter display method.		
001	Display Method	CTL	[0 or 1 / <b>0</b> / -] 0: Only the Total Counter is shown on the counter page. 1: Both the Total Counter and Prints Counter are shown on the counter page.

Model: Model Sh-MF1		Date: 25-Jan-12	No.: RM052029
Subject: Paper Feed Roller Assembly		Prepared by: T.Hirai	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

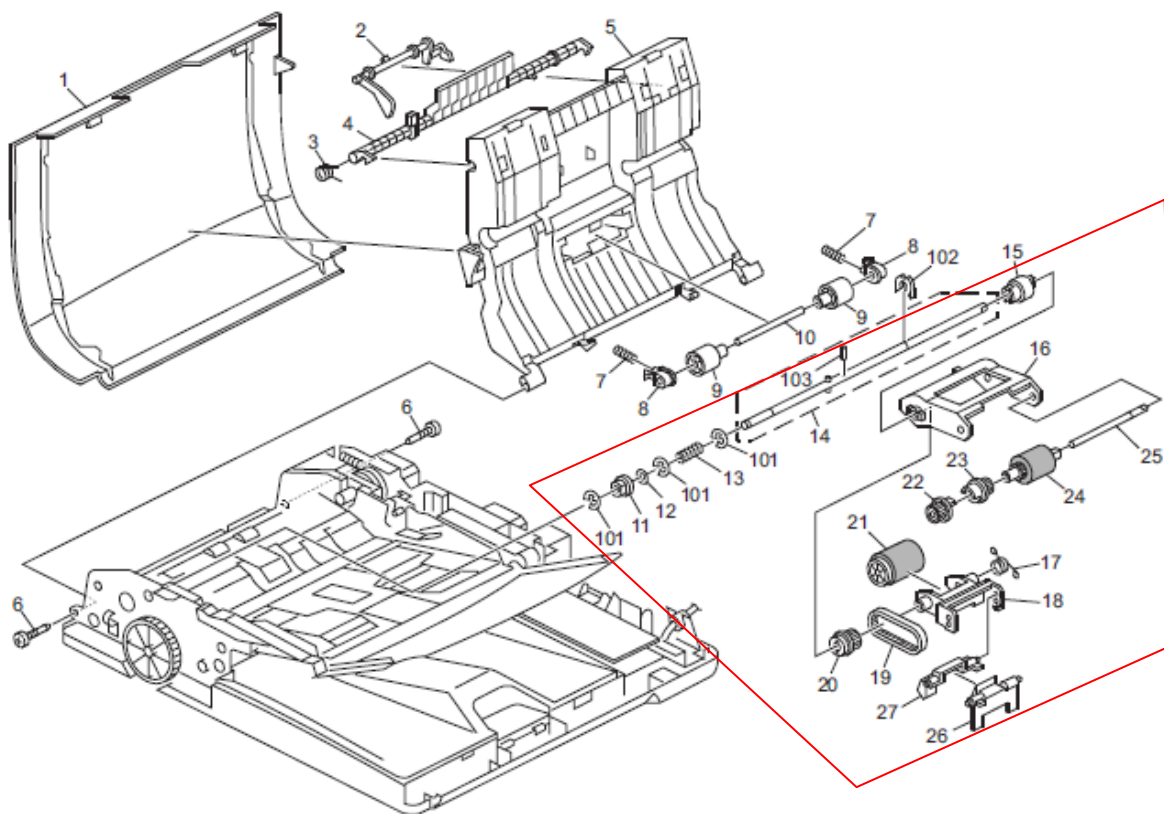
**Change/Reason:** The following part number was added.

Incorrect part number	Correct part number	Description	Q'ty	Int	Note
-	M3642100	Paper Feed Roller Assembly	1	-	*1

**Note1:**

M3642100 includes the following parts index #11 to #27, P20.

**6.ADF Section 2 (M052/M053/M054)**



Model: <b>Sh-MF1</b>	Date: 26-Jan-12	No.: RM052030
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Subject: Firmware Release Note: Option IPDS		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **Option IPDS**.

Version	Program No.	Effective Date	Availability of RFU
8.036	M0525737	1st Mass production	Available

**Note: Definition of Availability of RFU via @Remote**

“Available” The firmware can be updated via RFU or SD card.

“Not available”: The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
8.036	1st Mass production

Model: Model Sh-MF1		Date: 08-Feb-12	No.: RM052031
Subject: Duplex unit and Frame guide		Prepared by: T.Hirai	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

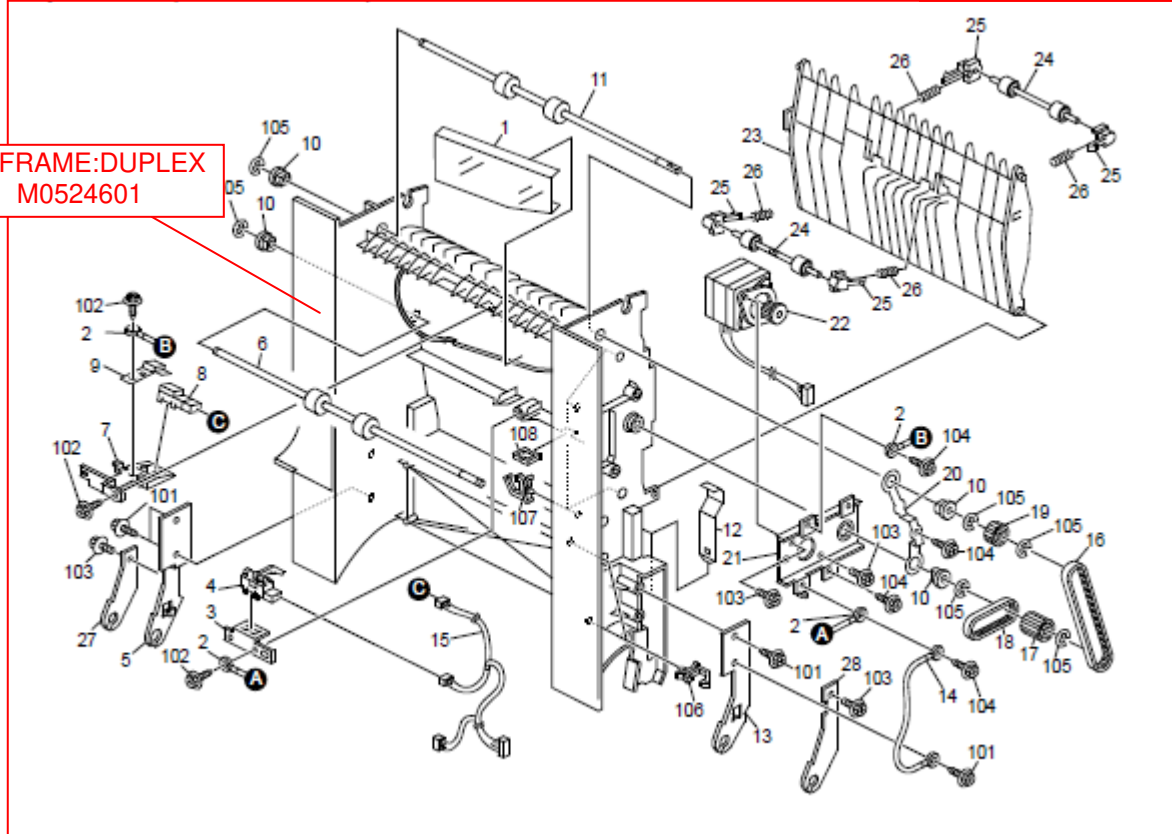
**Change/Reason:** The following part number and index number was added.

Incorrect part number	Correct part number	Description	Q'ty	Index	Note
-	M0520250	DUPLEX UNIT:UPPER:MF	1	29	
-	M0524601	FRAME:DUPLEX	1	30	

29.Duplex Unit 2 (M052/M053/M054)

29: DUPLEX UNIT  
M0520250

30: FRAME:DUPLEX  
M0524601





Model: Model Sh-MF1		Date: 13-Feb-12	No.: RM052032
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part numbers and index numbers were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M3663230	<b>M3663231</b>	TRAY:EXIT:MOVEABLE	1	73	12	
M3653230	<b>M3653231</b>	TRAY:EXIT:FIX:LOWER	1	73	15	
M3653220	<b>M3653221</b>	TRAY:EXIT:FIX	1	73	13	
M3663240	<b>M3663241</b>	TRAY:EXIT:AUXILIARY:SMALL	1	73	14	
M3663120	<b>M3663121</b>	END FENCE:EXIT	1	77	5	
M3651530	<b>M3651531</b>	DOOR:RIGHT	1	71	5	
M3651520	<b>M3651521</b>	COVER:RIGHT	1	71	3	
M3661520	<b>M3661521</b>	COVER:EXIT:UPPER	1	71	6	
M3651540	<b>M3651541</b>	COVER:EXIT:LEFT	1	73	16	

Model: Model Sh-MF1		Date: 13-Feb-12	No.: RM052033
Subject: Information of "SC 672" and "SC 899"		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (            )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

The following 2 SC codes were added to the Service manual.  
Please refer to the following for details.

◆ **SC672**

NO	Type	Detail (Symptom, Possible Cause, Troubleshooting Procedures)
672	D	Controller start up error <ul style="list-style-type: none"> <li>● After the machine is powered on, the communication between the controller and the operation panel is not established, or communication with controller is interrupted after a normal startup.</li> <li>● After startup reset of the operation panel, the attention code (FDH) or the attention acknowledge code (FEH) is not sent from the controller within 30 seconds.</li> <li>● After the controller issues a command to check the communication line with the controller at 30 second intervals, the controller fails to respond twice.</li> </ul> <ul style="list-style-type: none"> <li>● Controller stalled</li> <li>● Controller board installed incorrectly</li> <li>● Controller board defective</li> <li>● Operation panel connector loose or defective</li> <li>● The controller is not completely shut down when the main switch is turned off.</li> </ul> Check the setting of SP5-875-001. If the setting is set to "1(OFF)", change it to "0(ON)".

◆ **SC899**

No	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
899	CTL D	Software error A software error occurred in the GW controller. <ul style="list-style-type: none"> <li>● Cycle the machine off/on</li> <li>● Update controller firmware</li> <li>● Controller board defective</li> </ul>

Model: Model Sh-MF1		Date: 24-Feb-12	No.: RM052034
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part number and index number were changed.

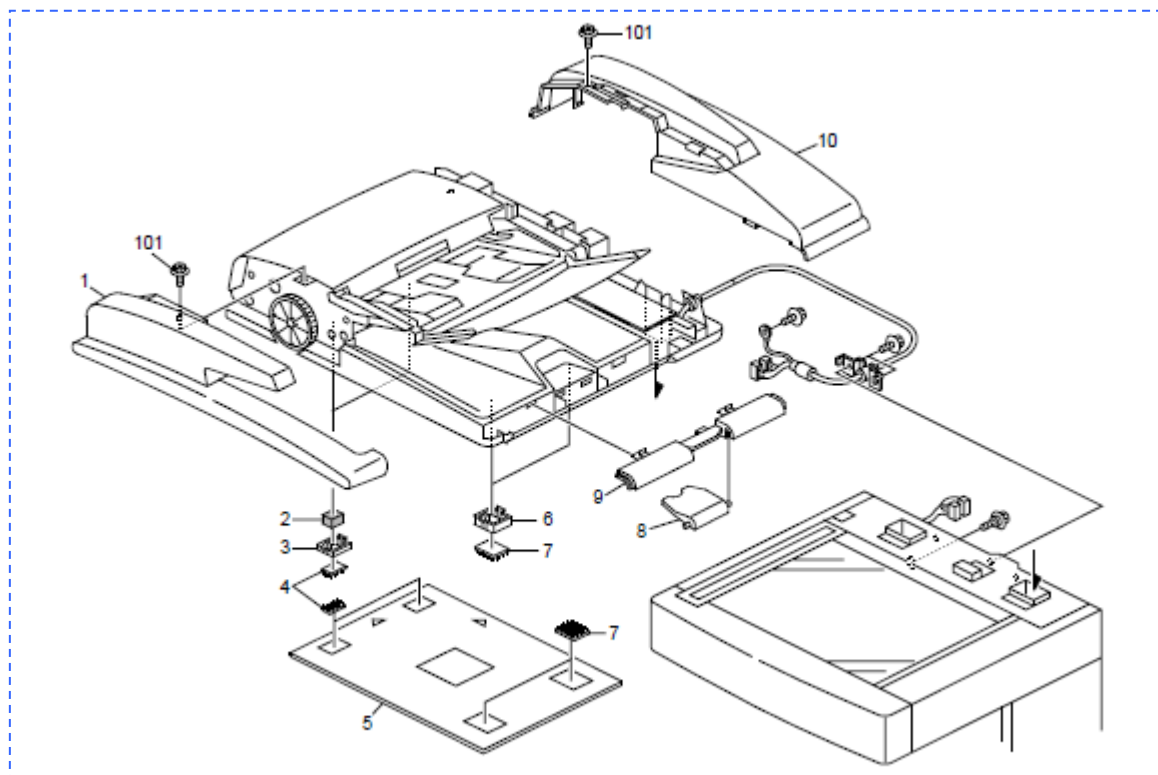
Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
G0523103	<b>M0522830</b>	Paper Feed Roller: Ass'y	1	49	10	-

Model: Model Sh-MF1		Date: 21-Mar-12	No.: RM052035
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following parts number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
-	M3640090	ADF:MARCY:GER:ASS'Y	1	19	11	-

## 5.ADF Section 1 (M052/M053/M054)



11

Model: Model Sh-MF1		Date: 5-Apr-12	No.: RM052036
Subject: SP correction Fax S/N, Country code, Test pattern		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Service Manual Correction

Apply the following corrections to the SP mode descriptions.

1. **SP1000-001:** Enter Fax unit serial number

**Correction:** Use **SP3-102** to enter the Fax unit serial number.

2. **SP1401-001:** County code setting

**Correction:** Use **UP mode** to enter the country code setting. There is no SP mode for this setting.

**Note:** The procedure for setting the country code in UP mode appears on pg. 31 of the “Initial Guide for Scanner and Fax”.

### Specifying the Country Code

This section explains how to specify the country code.

1. Press the [User Tools/Counter] key.
2. Press [Facsimile Features].
3. Press [Initial Settings].
4. Press [Country Code (For Function Settings)].
5. Select the country in which you are using the machine.
6. Turn off the power with the main power switch, and then turn it back on.

For details about turning off the power, see “Turning On/Off the Power”, About This Machine.


3. **SP5902-003:** Test pattern printing

**Correction:** Use the following procedure to print out the test pattern.

- 1) Specify the pattern number using **SP5902-003**.
- 2) Select “OK”.
- 3) Select **SP5902-001** (1-sheet print) or **SP5902-002** (continuous), and then press “Execute”.

Model: Model Sh-MF1		Date: 10-Apr-12	No.: RM052037
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following parts number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0524200	<b>M0524201</b>	GUIDE:EXIT:FUSING	1	19	11	 -
M0424226	<b>M0524226</b>	PLATE:HARNESS:FUSING	1	57	15	
M0524410	<b>M0524470</b>	SOLENOID:ASS'Y:EXIT	1	61	4	-

Model: Model Sh-MF1		Date: 11-May-12	No.: RM052038
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part numbers and index numbers were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0521487	<b>M0521495</b>	PCB: LCDC: NA: Ass'y	1	17	7	-
M0521488	<b>M0521496</b>	PCB: LCDC: EU: Ass'y	1	17	7	
M0521489	<b>M0521497</b>	PCB: LCDC: AA: Ass'y	1	17	7	-

Model: Model Sh-MF1		Date: 16-May-12	No.: RM052039
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part number and index number was changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0525010	<b>M0525011</b>	PCB: BICU: Ass'y	1	95	1	-



Model: Model Sh-MF1		Date: 12-Jun-12	No.: RM052040
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0524472	<b>M0524471</b>	BRKT: Solenoid	1	61	11	-

Model: Model Sh-MF1		Date: 5-Jul-12	No.: RM052041
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

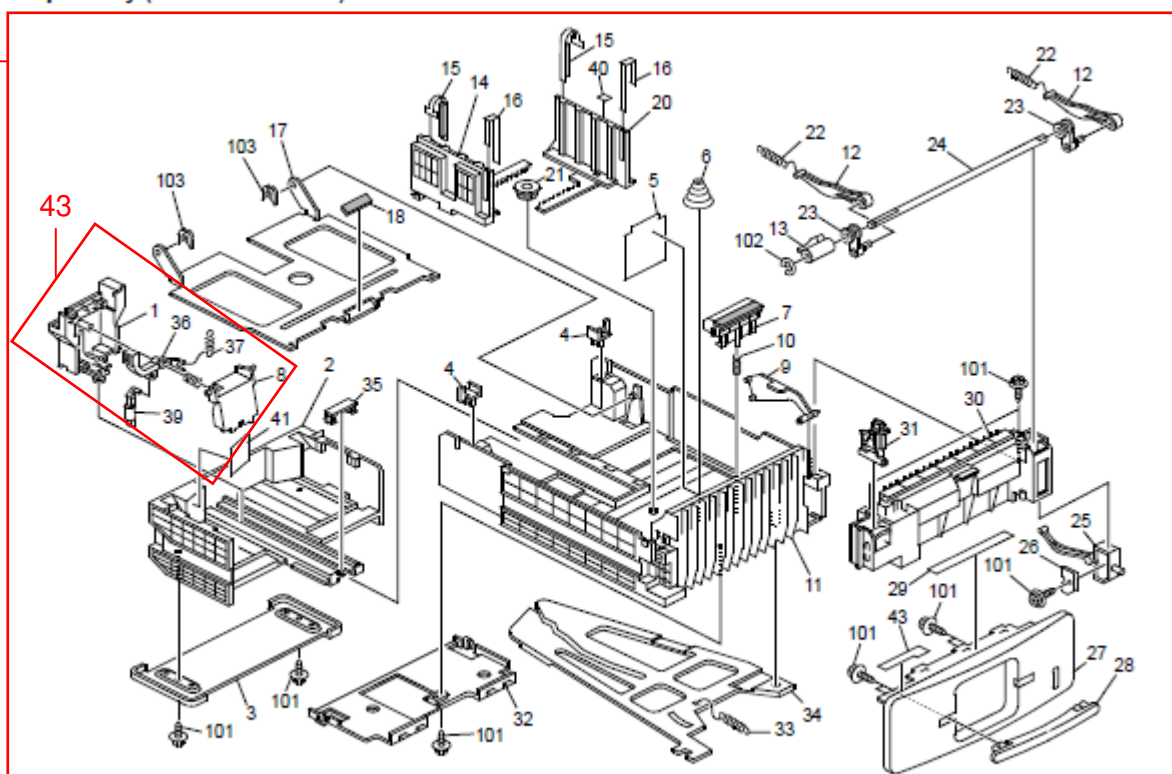
**Change/Reason:** The following part numbers and index numbers were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0522605	<b>M0212605</b>	Feeler Paper Volume Bottom Plate Tray	1	45	9	
M0212657	<b>M0212658</b>	Tray Bottom Plate	1	45	17	
G5553069	<b>M0212657</b>	Pad: Bottom Plate: Tray	1	45	18	
08050089	-	Retaining Ring – M4	1	45	19	Note.1
-	<b>M0522560</b>	End Fence :Ass'y	1	45	43	
-	<b>M0520130</b>	Feed :MF :Unit	1	45	*	

Note.1: The part of index 19 does not exist.

## 18.Paper Tray (M052/M053/M054)

\*



Model: Model Sh-MF1		Date: 6-Jul-12	No.: RM052042
Subject: Letter & Legal mixed sizes copy / scan		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## Support for Letter + Legal Mixed Copy/Scan

### Overview

- Copying and scanning of mixed letter and legal sized originals ("LT/LG Mixed Sizes") is now supported on the Sh-MF1.
- **This feature is not enabled by default. You must enable it in SP mode (see below).**
- To support existing machines, the System Firmware was modified. For a list of the target models and supported System software for each, see the "Target Models, Firmware" table below.
- To use this feature with the Scanner, the **paper bank option** must be installed.

### In the field

To use this feature, do the following.

1. Make sure all of the following firmware versions (or newer) are installed. If they are not, install them **together as a set**.

### Target models, firmware

	Model	Firmware	Version	P/N	Applied to the production line
01.	Sh-MF1	System/Copy	2.03	M0525771G	2012 Middle of July
02.	Sh-MF1	Scanner	1.04	M0525777C	2012 Middle of July

2. Set the following SP modes to a value of "1", which will activate the feature.

### System SP Mode

5076	[Copy:LT/LG Mixed Sizes Setting]		
001	0: OFF 1: ON	*CTL	[0 or 1 / 0 / 1/step] 0: OFF, 1: ON (0: default)

### Scanner Service Mode

1040	[Scanner: LT/LG Mixed Sizes Setting]		
001	0: OFF 1: ON	*CTL	[0 or 1 / 0 / 1/step] 0: OFF, 1: ON (0: default)

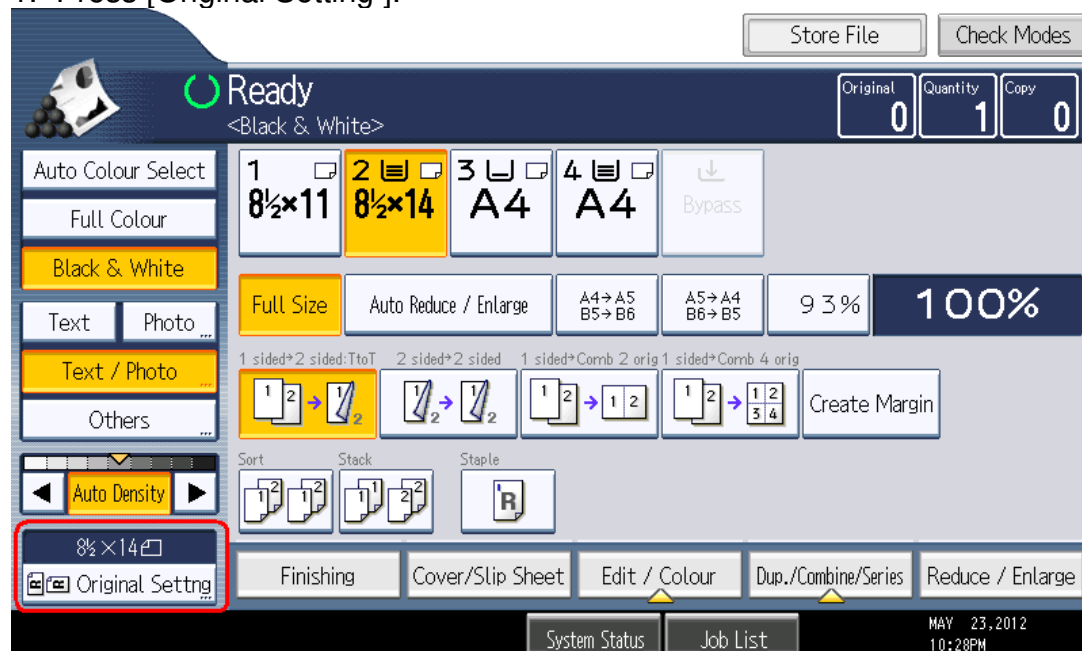
Model: Model Sh-MF1

Date: 6-Jul-12

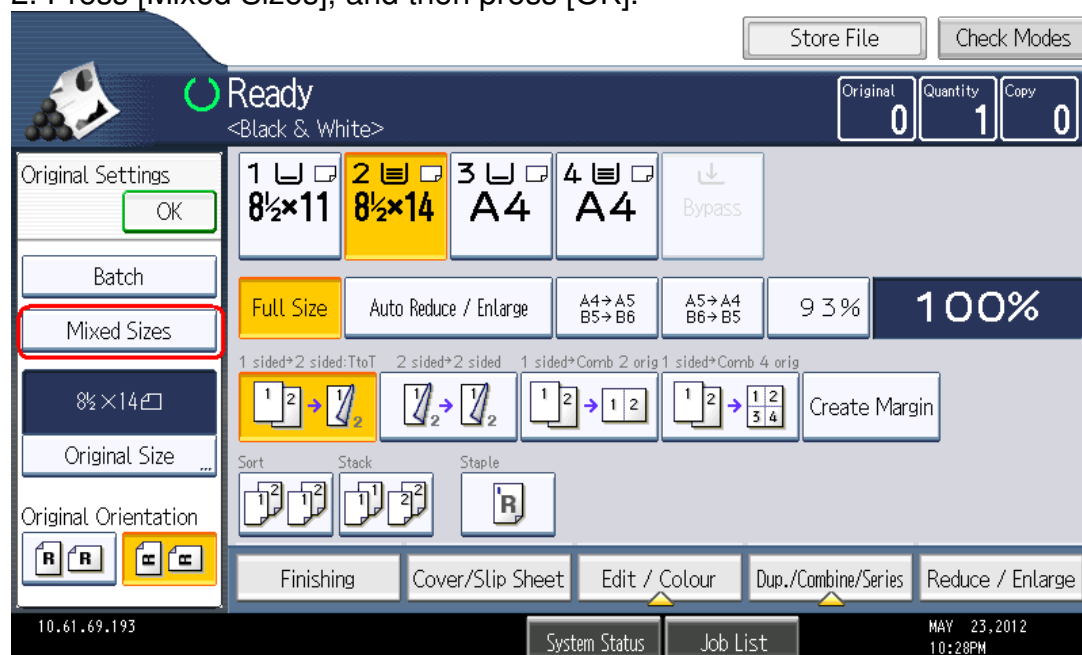
No.: RM052042

## Installation procedure

1. Press [Original Setting ].



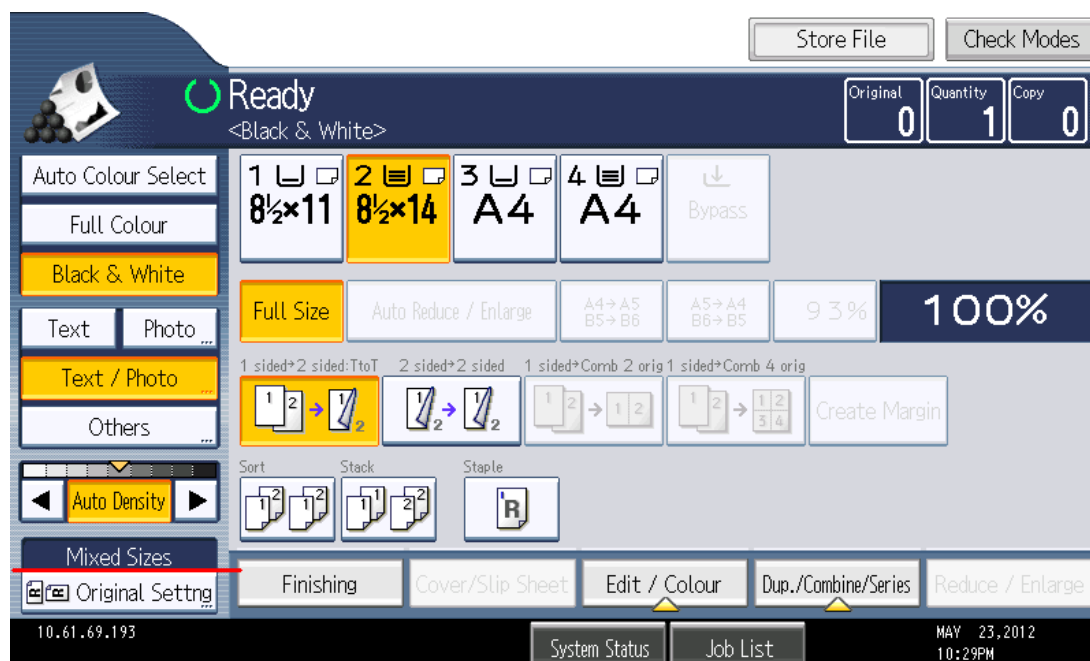
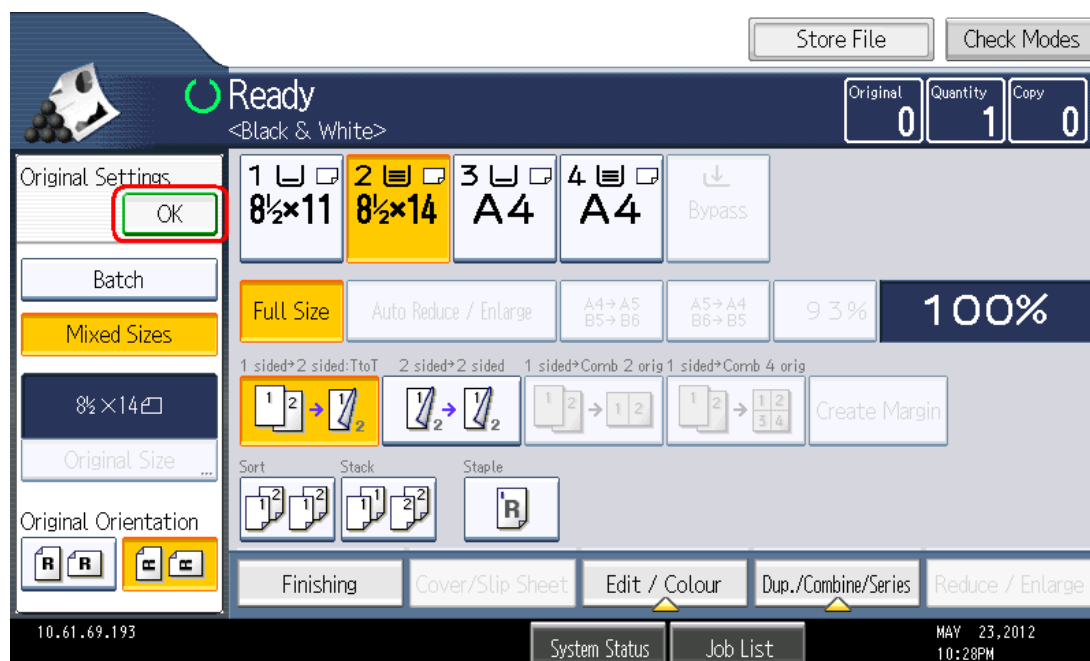
2. Press [Mixed Sizes], and then press [OK].



Model: Model Sh-MF1

Date: 6-Jul-12

No.: RM052042



3. Select a paper tray that contains either 8 1/2 x 11 or 8 1/2 x 14 size paper.

4. Place the originals in the ADF, and then press the [Start] key.

Model: Model Sh-MF1		Date: 17-Jul-12	No.: RM052043
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0525157	<b>M0535157</b>	BRACKET:FAX CONTROL UNIT	1	103	8	-

Model: Model Sh-MF1		Date: 26-Jul-12	No.: RM052044
Subject: Dog ear JAM		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input checked="" type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Important Information about Dog Ear Jams

- A minor change was made to the shape of the fusing exit guide (see areas outlined in red below). This was to further minimize the occurrence of “dog ear” paper jams, which may occur with some paper types.
- Since this was a minor change, the part number was not changed. It is still **M0524201** (Guide: Exit: Fusing).
- If dog ear paper jams are reported, replace the fusing exit guide with the “AFTER” type by checking the shape of the part.

**Note:** This new fusing exit guide has been used in machine mainframes since November 2011 production.

Before:



AFTER:



Model: Model Sh-MF1		Date: 15-Aug12	No.: RM052045
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following parts number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0520130	<b>M0522500</b>	Feed :MF :Unit	1	45	*	-



Model: Model Sh-MF1		Date: 15-Aug12	No.: RM052046
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following parts number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0522757	<b>M0522756</b>	COVER:FRONT	1	13	12	-

Model: Model Sh-MF1		Date: 21-Aug12	No.: RM052047
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following parts number and index number were changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0211191	<b>M0521191</b>	Shaft: High Voltage: Ass'y	1	93	4	-

Model: Sh-MF1		Date: 27-Sep-12	No.: RM052049
Subject: Paper No Feed / Paper Jam		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## SYMPTOM

A paper feed jam or non-feed occurs when feeding paper from a mainframe paper tray.

## CAUSE

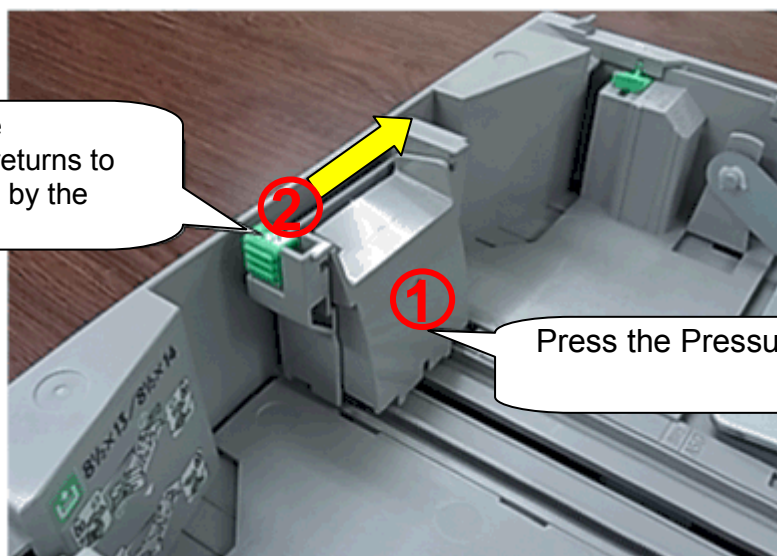
The spring hook for the END FENCE:BASE (M0212565) breaks, which weakens the locking mechanism. As a result, the paper cannot be properly secured in place.



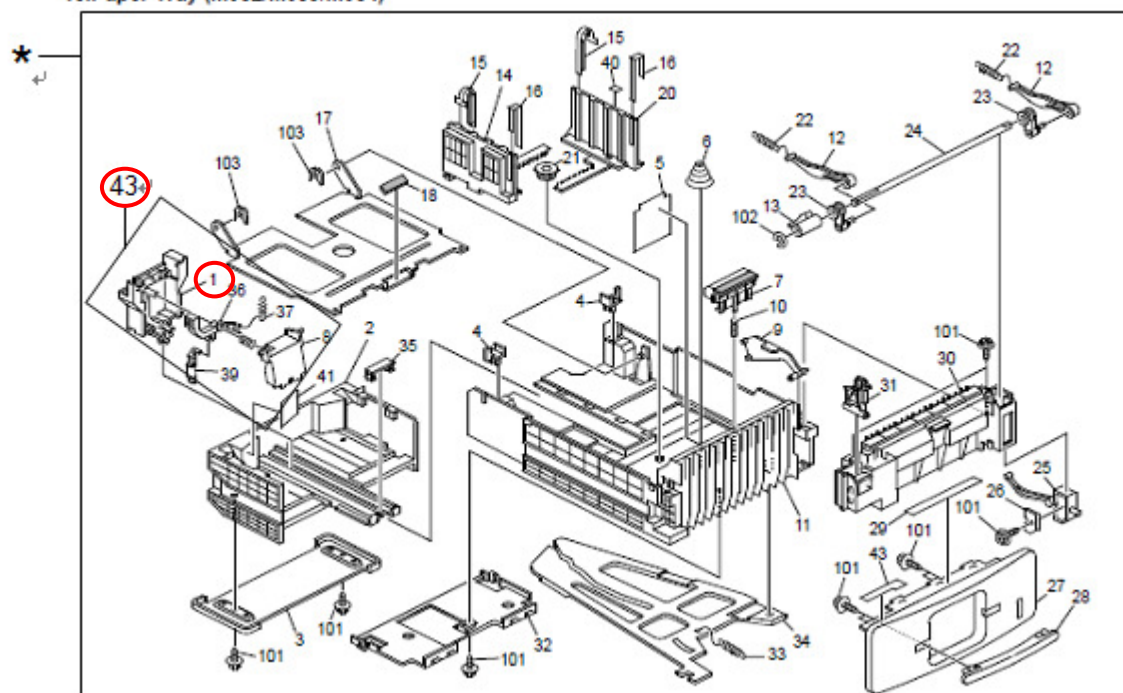
## SOLUTION

1. Hold down the Pressure:Plate:End:Fence, and while you do this, turn the Lever: End Fence five (5) times in the direction of the arrow shown.
2. Make sure the Lever:End:Fence returns to its original position by the spring's pressure.
  - If it does not, install either part shown in the table below.

Part Number	Description	Q'ty	Page	Index	Note
<b>M0212565</b>	END FENCE:BASE	1	45	1	
<b>M0522560</b>	END FENCE:ASS'Y	1	45	43	



18. Paper Tray (M052/M053/M054)



Model: Sh-MF		Date: 12-Oct-12	No.: RM052050
Subject: FSM Correction for SP5733/7931		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Service Manual Correction

The areas in **highlighted as blue bold text** were added, as they were missing from the manual.

## 5. System Maintenance Reference

### System SP5-xxx

#### SP5-XXX(Mode)

5733	[MICR Setting] <b>DFU</b>	
001	Model Switching	0: Ricoh Standard Model/ 1: Secure PCL MICR Model/ 2: IPDS MICR
	Selects a MICR model.	
002	Print Availability with MICR Toner	0: Do not print/ 1: Print
	Select the print availability when using MICR toner.	

### System SP7-xxx

#### SP7-XXX(Data Log)

7931	[AIO Information]		
	Displays the AIO information.		
001	Machine Serial ID	*ENG	Displays the basic identification information for the AIO.
002	Cartridge Ver	*ENG	
003	Brand ID	*ENG	
004	Area ID	*ENG	
005	Class ID	*ENG	
006	Color ID	*ENG	
007	Maintenance ID	*ENG	
008	New AIO	*ENG	
009	Recycle Count <b>DFU</b>	*ENG	Displays the value of the recycle counter.
010	EDP code	*ENG	Displays the EDP code.
011	Serial No	*ENG	Displays the serial No. for the AIO. Serial #: yymmffakkxxxxxx
012	Toner Remaining	*ENG	Displays the amount of toner remaining. [0 to 100 / 100 / 1%/step]
013	Toner End	*ENG	Displays the current Toner End/Near End

Model: Sh-MF	Date: 12-Oct-12	No.: RM052050
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			<b>status.</b> <b>0: Before Toner Near End</b> <b>N: At Toner Near End</b> <b>E: At Toner End</b>
014	Refill Flag <b>DFU</b>	*ENG	<b>Displays the refill flag.</b>
015	R: Total Counter	*ENG	<b>Displays the total counter value at the time the AIO was installed.</b> <b>[0 to 99999999 / 0 / 1 sheet/step]</b>
016	E: Total Counter	*ENG	<b>Displays the total counter value at the most recent Toner End.</b> <b>[0 to 99999999 / 0 / 1 sheet/step]</b>
017	Unit Output Counter <b>DFU</b>	*ENG	<b>Displays the total counter value for the AIO.</b>
018	Install Date	*ENG	<b>Displays the AIO installation date.</b>
019	Toner End Date	*ENG	<b>Displays the date on which the most recent Toner End occurred.</b>
020	Conductor Time 1	*ENG	<b>Displays the total rotation time of the drum.</b> <b>[0 to 65535 / 0 / 1m/step]</b>
021	Conductor Time 2	*ENG	
022	Conductor Time 3	*ENG	
023	Conductor Time 4	*ENG	

**How to read the AIO serial number, displayed in SP7931-011:**

**Serial number: yymmffakkxxxxxx**

**yy: The last two digits of the year of production**

**mm: The production month**

**f: Production factory**

**a: Already installed or supply AIO (see below)**

**kk: Destination/market (see below)**

**xxxxxx: Nth AIO produced in the month**

**a:**

<b>Code</b>	<b>Description</b>
<b>A</b>	<b>AIO included with machine</b>
<b>B</b>	<b>Supply AIO</b>

**kk:**

<b>Code</b>	<b>Description</b>
<b>M85102</b>	<b>Shinka-MF/P: AIO 12K :NA :RIC</b>
<b>M85103</b>	<b>Shinka-MF/P: AIO 25K :NA :RIC</b>
<b>M85104</b>	<b>Shinka-MF/P: AIO 12K :EU</b>
<b>M85105</b>	<b>Shinka-MF/P: AIO 25K :EU</b>
<b>M85106</b>	<b>Shinka-MF/P: AIO 12K :NRG</b>
<b>M85107</b>	<b>Shinka-MF/P: AIO 25K :NRG</b>
<b>M85108</b>	<b>Shinka-MF/P: AIO 25K :AA :RIC</b>
<b>M85111</b>	<b>Shinka-MF/P: AIO 25K :NA :SVN</b>
<b>M85112</b>	<b>Shinka-MF/P: AIO 25K :NA :LAN</b>
<b>M85113</b>	<b>Shinka-P: AIO 6K</b>
<b>M85114</b>	<b>Shinka-MF: AIO 6K</b>
<b>M85123</b>	<b>Shinka-MF/P: AIO 12K :AA :RIC</b>

Model: Sh-MF/P		Date: 12-Oct-12	No.: RM052051
Subject: AIO Serial No Information		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (AIO S/N Information)	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## How to Read the AIO Production Serial Number



Serial #: TTKKKKKKYYMMxxxxxx

**TT:** AIO

Code	
06	6K AIO
12	12K AIO
25	25K AIO

**KKKKKK:** Destination/market

Code	
M85102	Shinka-MF/P: AIO 12K :NA :RIC
M85103	Shinka-MF/P: AIO 25K :NA :RIC
M85104	Shinka-MF/P: AIO 12K :EU
M85105	Shinka-MF/P: AIO 25K :EU
M85106	Shinka-MF/P: AIO 12K :NRG
M85107	Shinka-MF/P: AIO 25K :NRG

Model: Sh-MF/P		Date: 12-Oct-12	No.: RM052051
M85108	Shinka-MF/P: AIO 25K :AA :RIC		
M85111	Shinka-MF/P: AIO 25K :NA :SVN		
M85112	Shinka-MF/P: AIO 25K :NA :LAN		
M85113	Shinka-P: AIO 6K		
M85114	Shinka-MF: AIO 6K		
M85123	Shinka-MF/P: AIO 12K :AA :RIC		

**YY:** The last two digits of the year of production

**MM:** The production month

**xxxxxx:** The Nth machine produced in the month of production



Model: Shinka-MF1		Date: 30-Oct-12	No.: RM052048
Subject: CC-CERTIFIED IN AUGUST 2012 Machine		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Important Information on Installing the Shinka-MF1 as a CC-CERTIFIED Machine compliant with IEEE Std. 2600.1<sup>TM</sup>-2009

Do the following six steps if you want to install the Shinka-MF1 as a CC-CERTIFIED MACHINE compliant with IEEE Std. 2600.1<sup>TM</sup>-2009.

**Note:** Machines in production are CC-certified beginning in August 2012.

**Important:** If the customer requests maintenance on the machine, please perform the maintenance without accessing SP mode.

1. Make sure the customer has received the English language Operating Instructions (O/I) shown in pages 8 - 10.

**Important:** For installations in the EU market, make sure this is the Ricoh-genuine O/I.

2. Tell the customer to read the "Notes for Administrators: Using this Machine in a Network Environment Compliant with IEEE Std. 2600.1<sup>TM</sup>-2009".

See the following pages for Step 3 to Step 6.

Model: Shinka-MF1

Date: 30-Oct-12

No.: RM052048

### 3. Enable the HDD Encryption Unit.

#### Enabling the Encryption Settings

This must be specified by the machine administrator.

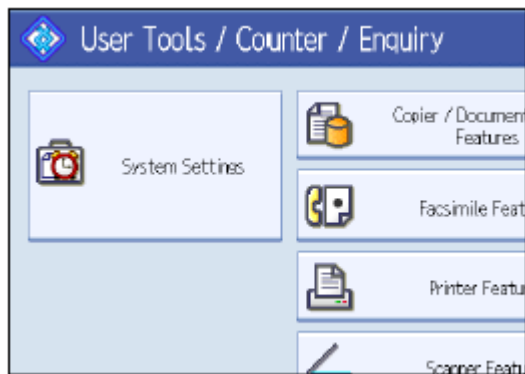
Use the following procedure to enable the encryption settings at initial set up, or after encryption settings have been canceled and settings must be made again.

#### **Important**

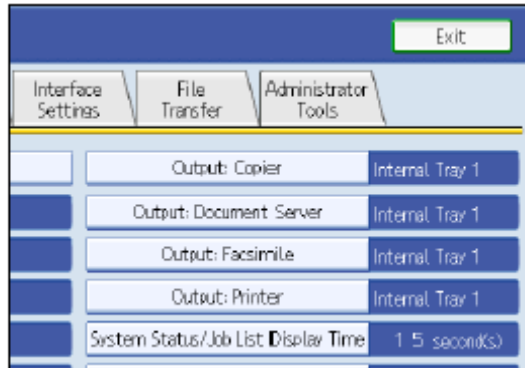
The encryption key is required for data recovery if the machine malfunctions. Be sure to store the encryption key safely for retrieving backup data.

3.1 Press the [User Tools/Counter] key.

3.2 Press [System Settings].



3.3 Press [Administrator Tools].



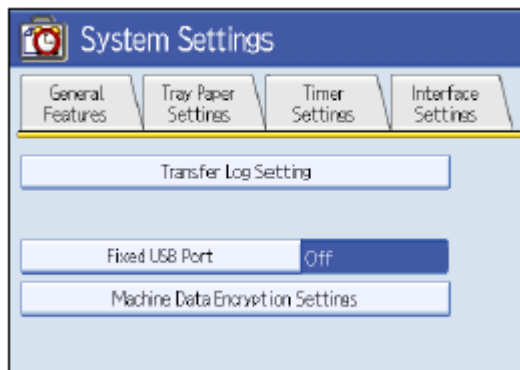
Model: Shinka-MF1

Date: 30-Oct-12

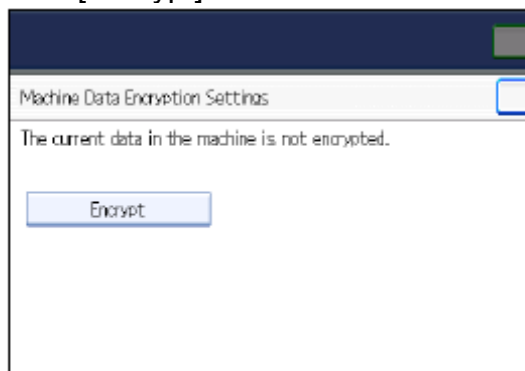
No.: RM052048

### 3.4 Press [Machine Data Encryption Settings].

If the setting to be specified does not appear, press [▼next].

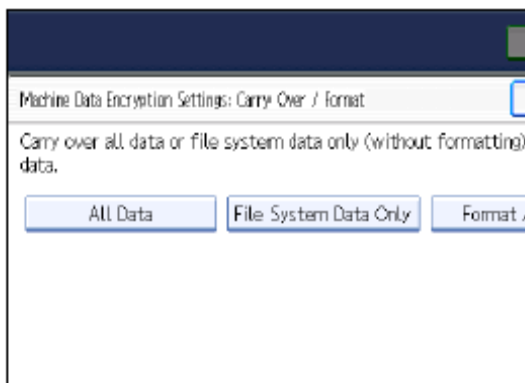


### 3.5 Press [Encrypt].



### 3.6 Select the [Format All Data] to reset all of the data.

**Note:** It takes about five minutes to complete this operation.



Model: Shinka-MF1

Date: 30-Oct-12

No.: RM052048

3.7 Press the [Start] key.



3.8 Hand the customer the printout of the encryption key.

3.9 Press [OK].

3.10 Press [Exit].

3.11 Press [Exit].

3.12 Press the [User Tools/Counter] key.

3.13 Turn off the power and the main power switch, and then turn the main power switch back on.

Model: Shinka-MF1	Date: 30-Oct-12	No.: RM052048
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4 Install the Fax Option Type SP5200.

-----  
Installation Procedure for Fax Option Type SP5200  
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Install the Fax Option Type SP5200.

For the detailed installation procedure, see "Fax Option Type SP5200 (M381)" in  
"2.Installation", Model SH-MF1 Machine Code: M052/M053/M054 Field Service Manual.

Model: Shinka-MF1	Date: 30-Oct-12	No.: RM052048
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5. Make sure that App2Me is NOT installed.

If App2Me is installed, that machine will NOT be a CC-certified machine. In this case, turn off the machine main power, remove the VM card containing App2Me from slot 2, and then give the VM card to the customer.

6. Make sure the machine contains the correct firmware.

Print SMC by SP mode to check the firmware versions.

- If the customer wants to install the machine in the same condition as when CC Certification was first attained (same as the August 2012 machines), install the exact versions shown in the table below.
- If the customer wants to install the machine as an equivalent of the August 2012 machines, install the versions shown in the table below or later.

If you are not sure which one the customer is requesting, contact your sales department.

**Model: Shinka-MF1**
**Date: 30-Oct-12**
**No.: RM052048**

Firmware versions with which the Shinka-MF1 first achieved CC-CERTIFICATION:  
August 2012

Firmware Name:	Version:	Firmware Number:
System/Copy	2.02	M0525771F
Network Support	10.63	M0525792D
Fax	02.00.00	M0525774B
RemoteFax	01.00.00	M0525775A
NetworkDocBox	1.04	M0525793B
Web Support	1.02	M0525788B
Web Uapl	1.02	M0525789B
animation	1.01	M0525778
Scanner	01.03	M0525777B
Printer	1.02.1	M0525794B
PCL	1.02	M0525796B
PCL Font	1.05	M0665737
Data Erase Std	1.01m	D3775932
GWFCU3-24(WW)	02.00.00	M3815570B
Engine	A2.0:20	M0525811
Engine(Scanner)	1.01:00	M0525820A
OpePanel	1.02	NA: M0521492B EU: M0521493B AA: M0521494A
LANG0	1.02	M0525791A
LANG1	1.02	M0525791A

Ic Key and Ic Hdd versions with which the Shinka-MF1 first achieved CC-CERTIFICATION:

August 2012

Hardware:	Version:
Ic Key	<b>01020714</b>
Ic Hdd	<b>01</b>

Model: Shinka-MF1	Date: 30-Oct-12	No.: RM052048
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The list of Operating Instructions (O/I)

For NA

Paper Documents

- M0527000 SP 5200S/5210SF/5210SR  
Quick Installation Guide
- M0527003 SP 5200S/5210SF/5210SR  
Initial Guide for Scanner and Fax
- M0527013 Note to Administrator
- M0527017 SP 5200S/5210SF/5210SR  
Manuals and Safety Information for This Machine
- M0527024 Changing the On-screen Language
- M0527026 Notes on Hard Disk Data Encryption
- M0527028B ENERGY STAR Program
- M0527030 Notes for Users
- D0817676 Notes for Users
- M0527032 Note for Administrators: Additional  
Information on Hard Disk Encryption
- M0527995 RICOH SP 5200S/SP 5210SF/SP 5210SR  
LASER MFP LIMITED WARRANTY – FOR U.S. ONLY
- M3818610 FAX OPTION TYPE SP5200  
(Machine Code: M381)  
INSTALLATION PROCEDURE  
For Machine Code: M052/M054 Copiers
- M0527039 Operating Instructions Notes on Security Functions
- M0527038 Notes for Administrators: Using this  
Machine in a Network Environment  
Compliant with IEEE Std. 2600.1™-2009

CD-ROMs

- M0527903 Manuals  
Aficio SP 5200S/SP 5210SF/SP 5210SR  
SP 5200S/SP 5210SF/SP 5210SR  
A



Model: Shinka-MF1	Date: 30-Oct-12	No.: RM052048
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For EU

Paper Documents

- M0527022 SP 5200S/5210SF/5210SR  
Quick Installation Guide
- M0527005 SP 5200S/5210SF/5210SR  
Initial Guide for Scanner and Fax
- M0527023 Note to Administrator
- M0527019 SP 5200S/5210SF/5210SR  
Manuals and Safety Information for This Machine
- M0527027 Notes on Hard Disk Data Encryption
- M0527021 Attaching the Control Panel Seal
- M0527025 Changing the On-screen Language
- M0527033 Note for Administrators: Additional  
Information on Hard Disk Encryption
- M0527029B ENERGY STAR Program
- M0527031 Notes for Users
- D0817668 Notes for Users
- M3818610 FAX OPTION TYPE SP5200  
(Machine Code: M381)  
INSTALLATION PROCEDURE  
For Machine Code: M052/M054 Copiers
- A2328561A Safety Information
- M0527037 Operating Instructions Notes on Security Functions
- M0527036 Notes for Administrators: Using this  
Machine in a Network Environment  
Compliant with IEEE Std. 2600.1™-2009

CD-ROMs

- M0527903 Manuals  
Aficio SP 5200S/SP 5210SF/SP 5210SR  
SP 5200S/SP 5210SF/SP 5210SR  
A

Model: Shinka-MF1	Date: 30-Oct-12	No.: RM052048
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For Asia

Paper Documents

- M0527000 SP 5200S/5210SF/5210SR  
Quick Installation Guide
- M0527003 SP 5200S/5210SF/5210SR  
Initial Guide for Scanner and Fax
- M0527013 Note to Administrator
- M0527020 SP 5200S/5210SF/5210SR  
Manuals and Safety Information for This Machine
- M0527026 Notes on Hard Disk Data Encryption
- M0527035A ENERGY STAR Program
- M0527030 Notes for Users
- M0527032 Note for Administrators: Additional  
Information on Hard Disk Encryption
- M3818610 FAX OPTION TYPE SP5200  
(Machine Code: M381)  
INSTALLATION PROCEDURE  
For Machine Code: M052/M054 Copiers
- D0817676 Notes for Users
- D1276601 User Information on Electrical & Electronic Equipment
- M0527039 Operating Instructions Notes on Security Functions
- M0527038 Notes for Administrators: Using this  
Machine in a Network Environment  
Compliant with IEEE Std. 2600.1<sup>TM</sup>-2009

CD-ROMs

- M0527903 Manuals  
Aficio SP 5200S/SP 5210SF/SP 5210SR  
SP 5200S/SP 5210SF/SP 5210SR  
A

Model: Sh-MF1		Date: 07-Dec-12	No.: RM052052
Subject: FSM Correction for SP default for Meter Click Charge		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Service Manual Correction

The following descriptions were corrected.

Areas **in bold** were added, and those ~~crossed out~~ were deleted.

## 2. Installation

### - Copier

#### - Meter Click Charge

Item	SP No.	Function	Default
Meter Click Charge: Life Disp: Maintenance Kit	SP5-930-002	Enables or disables the PM alert for the maintenance kit.  If this SP is enabled, an alert message is displayed when the maintenance kit needs to be replaced.	<del>"1": No alert</del> <b>"0": OFF</b>
Meter Click Charge: Life Disp: AIO	SP5-930-003	Enables or disables the PM alert for the AIO.  If this SP is enabled, an alert message is displayed when the AIO needs to be replaced.	<del>"1": No alert</del> <b>"0": OFF</b>
Counter method	SP5-045-001	Specifies if the counting method used in meter change mode is based on <del>developments or prints</del> <b>'total counter' or 'both total counter and prints counter'</b> .	<del>"1": Prints</del> <b>"0": Display the total counter only</b>

Model: Sh-MF1		Date: 11-Dec-12	No.: RM052053
Subject: FSM Correction for SC824		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## Service Manual Correction

The following SC description was missing from the Service Manual.

## Appendices

### 6. Troubleshooting

- Service Call Conditions

- SC Code Descriptions

No.	Type	Details (Symptom, Possible cause, Troubleshooting Procedures)
824	D	Self-diagnosis error: Standard NVRAM
		NVRAM device does not exist, NVRAM device is damaged, or NVRAM socket damaged.
		<ul style="list-style-type: none"> <li>● Loose connection</li> <li>● NVRAM defective</li> <li>● Controller board defective</li> </ul>
		<ol style="list-style-type: none"> <li>1. Check the NVRAM is firmly inserted into the socket.</li> <li>2. Replace the NVRAM.</li> <li>3. Replace the controller board.</li> </ol>

Model: Sh-MF1		Date: 07-Mar-13	No.: RM052054
Subject: FSM Correction for SP1953-001		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Service Manual Correction

The following SP description was missing from the Service Manual.

## Appendices

### 5. System Maintenance Reference

- System SP1-xxx

1953	Switch FAN Ctrl.		
	Selects the ON/OFF cycle for the main fan.  <b>Note:</b> With a setting of "1", the fan is turned ON/OFF at regular intervals, but only while the main motor is OFF.		
001	Main FAN	*ENG	[0 to 1/ 1/1] 0: Always ON 1: Alternate ON/OFF

Model: Sh-MF1	Date: 28-May-14	No.: RM052055a
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## RTB Reissue

The items in ***bold/italics*** were added or revised.

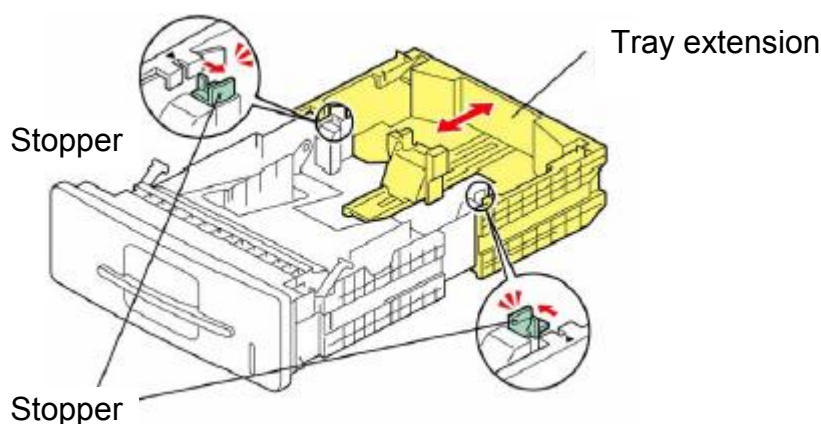
Subject: Breakage of Stoppers for Tray Extension		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## SYMPTOM

***A paper feed jam or non-feed occurs when feeding the paper from a mainframe paper tray.***

## CAUSE

***The stopper breaks and the tray extension extends out too far, causing the end fence to retract.***



## SOLUTION

### Production line:

The shape of the stopper was changed, and four screw holes were added so that the extension tray can be fixed in place for LT/A4 and LG paper sizes.

Part number	Description	Q'ty	Int	Page	Index	Note
04523008N	TAPPING SCREW - M3X8	4	-	-	-	

### In the field:

- If the user always uses the same paper size, fasten the extension tray in place with screws.

***- For all other users, fix the extension in place for LG sized paper.***

Model: Sh-MF1

Date: 28-May-14

No.: RM052055a

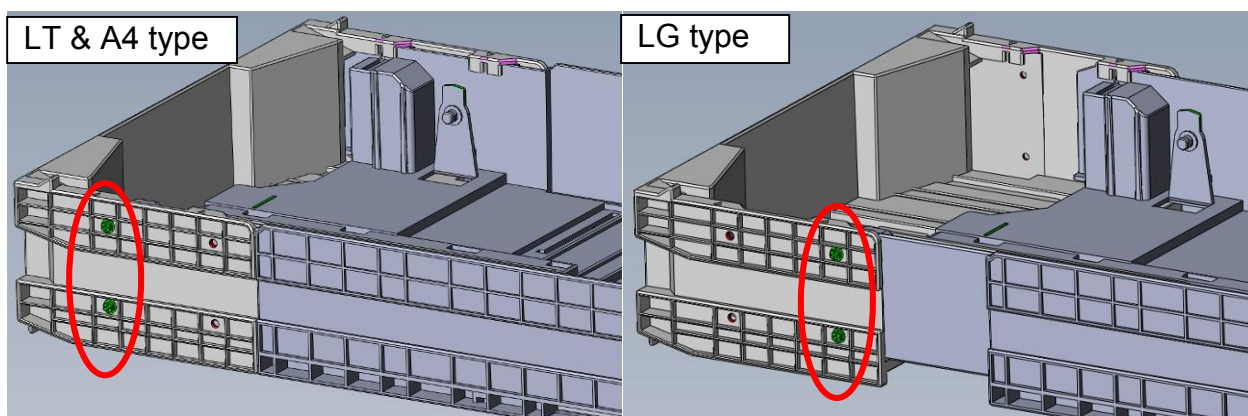
**Important:** *If there is no available screw hole in the user's tray, replace the tray with the following part (which contains the required screw holes).*

**Note:** *This part can also be used on the HC model.*

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M0522500	M0522501	TRAY:PAPER FEED UNIT	1	X/O	45	*	

## Important notes:

- The new screw holes are for LT/A4 and LG paper sizes. If the user always uses the same paper size, fix the extension tray in place at the corresponding position. ***If the user does not always use the same paper size, fix the extension in place for LG sized paper.***
- Insert the screws from the outside face of the tray. For each paper size, there are two screw holes, as shown.
- Be careful not to over-tighten the screws.



Model: Sh-MF1

Date: 28-May-14

No.: RM052055a

**Cut-in S/N**

The modification described above was applied to the production line from the following production serial numbers:

RE:

M052-67	S9024501004 ~
M053-67	S9124600001 ~
M054-67	S9224700096 ~

Other:

M052-57	S9022100000 ~
M052-69	
M053-57	S9122100000 ~
M053-69	
M054-57	S9222100000 ~
M054-69	



Model: Sh-MF1 (Only for Health Care Model)		Date: 18-Apr-13	No.: RM052056
Subject: Paper Jam (Code B), or Damage to the leading edge of the paper.		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## SYMPTOM

One or both of the following occur:

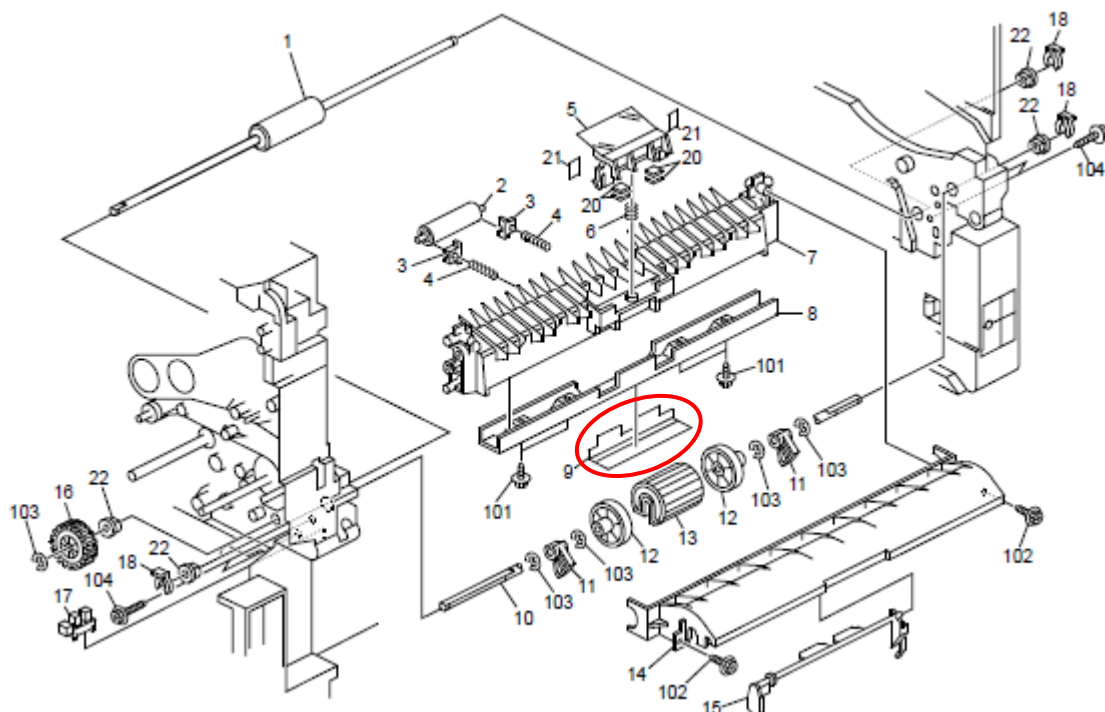
- Paper Jam (Code: B)
- Damage to the leading edge of the paper

## CAUSE

The Teflon mylar (circled in red below) peels off gradually with time, and eventually blocks the paper path.

**Note:** This Mylar is unique to the "Health Care Model".

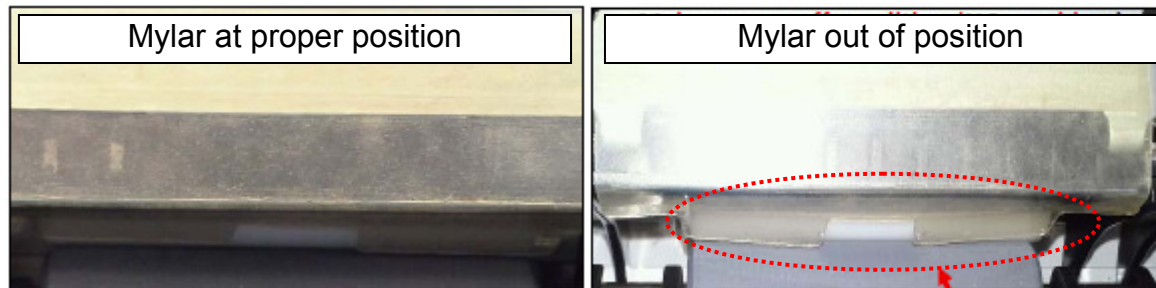
Paper feed section



Model: Sh-MF1 (Only for Health Care Model)

Date: 18-Apr-13

No.: RM052056



## SOLUTION

### Product line:

The thickness of the Mylar was changed to ensure it stays in position.

### In the field:

Replace with the modified Mylar (see **Procedure** below).

Part number	Description	Q'ty	Int	Page	Index	Note
M0213026	SEAL:CONNECTING:SHINK A	1	-	-	-	* This part is unique to the "Health Care Model"

## Procedure

1. Remove paper tray 1.
2. Tilt the machine backwards, as shown in the photo.

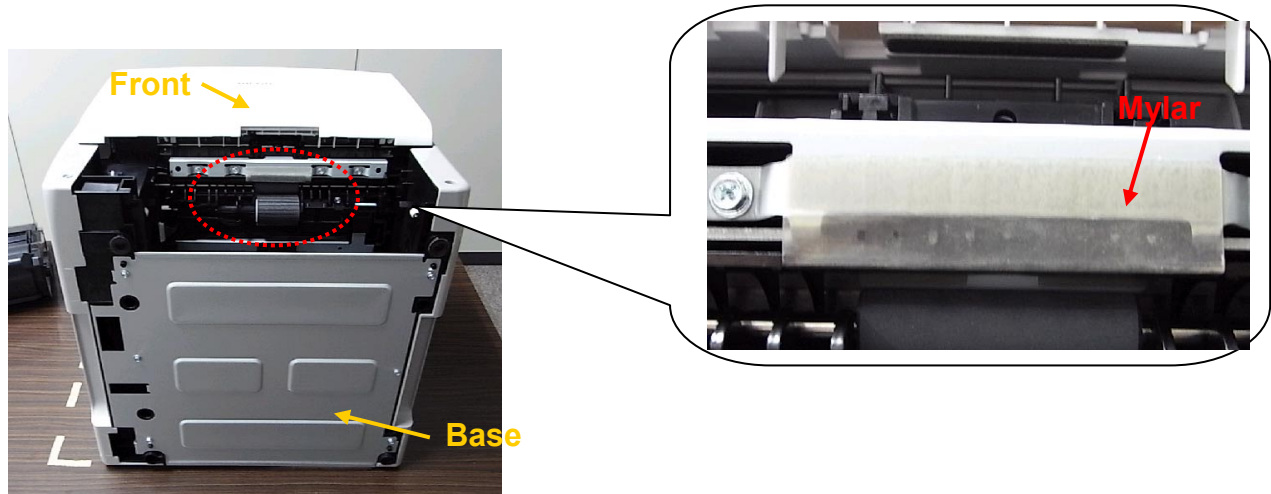


Model: Sh-MF1 (Only for Health Care Model)

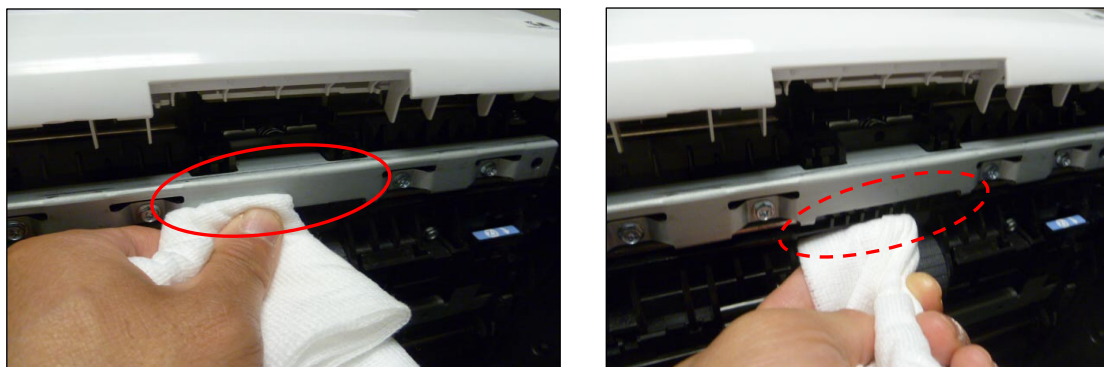
Date: 18-Apr-13

No.: RM052056

3. Remove the film, making sure that none of the double-sided tape remains.



4. Clean both surfaces well (inner/outer) using a towel.



5. Align the seal on the outer surface, then on the inner surface.

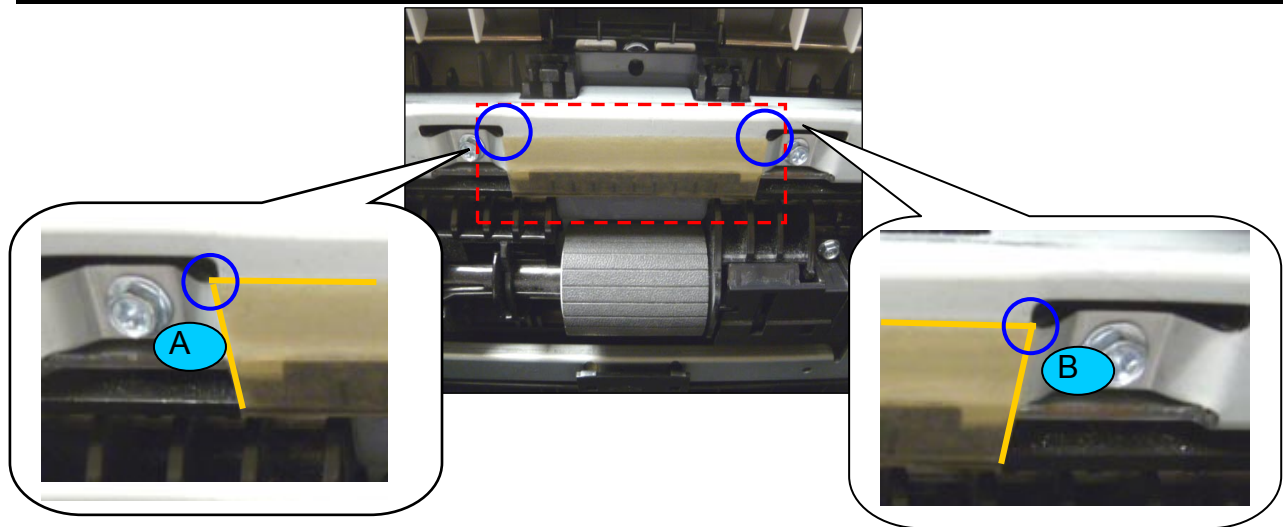
**Important:**

- Do not touch the adhesive (surface).
- Make sure that the connection seals are aligned evenly at positions A and B (see below).

Model: Sh-MF1 (Only for Health Care Model)

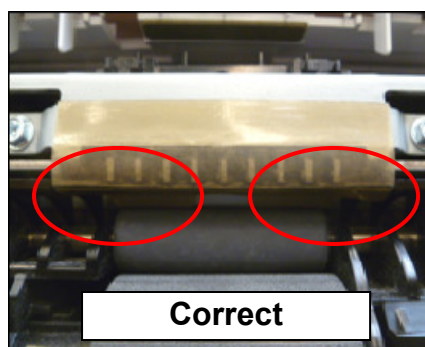
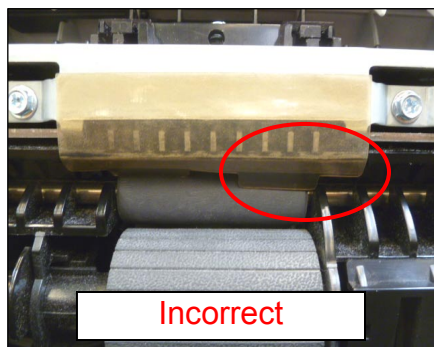
Date: 18-Apr-13

No.: RM052056



6. Press/squeeze the inner and outer surfaces of the seal firmly, making sure to apply force evenly across the entire surface.

**Important:** Make sure the tails are facing inward.



**Model:** Sh-MF1 (Only for Health Care Model)

**Date:** 18-Apr-13

**No.:** RM052056

## Affected S/N:

- Product code: 5K3962

S9028600346
S9028600348
S9028600349
S9028600350
S9028600351
S9028600352
S9028600354
S9028600381
S9028600382

S9028600391
S9028600395
S9028600396
S9028600529
S9028600568
S9028600569
S9029101272
S9029101394
S9029101396

S9029101402
S9029101412
S9029101415
S9029300483
S9029300485
S9029400028
S9029400032

- Product code: 5K3963

S9019500421
S9019600187
S9028600060
S9028600061
S9028600229
S9028600239
S9028600241
S9028600259
S9028600260
S9028600263
S9028600264
S9028600265

S9028600266
S9028600271
S9028600275
S9028600278
S9028600353
S9028600398
S9028600399
S9028600400
S9028600401
S9028600409
S9028600533
S9029101413

S9029101414
S9029300123
S9029300127
S9029300528
S9029400025
S9029400027
S9029400326
S9029600155
S9029600157
S9029600161

- Product code: 5K3964

S9128700109
S9128700744
S9128700780
S9128700794
S9128700815
S9128700845
S9128700848
S9128700854
S9128700861
S9128700862
S9128700863
S9128700866
S9128700872
S9128700880
S9128700881
S9128700883
S9128700887

S9129200010
S9129200014
S9129200017
S9129200764
S9129200895
S9129200903
S9129200909
S9129200912
S9129200913
S9129200914
S9129200934
S9129200936
S9129200939
S9129200944
S9129200945
S9129200946
S9129200948

S9129300354
S9129300355
S9129300356
S9129300357
S9129300508
S9129300530
S9129300537
S9129300543
S9129300556
S9129300557
S9129300558
S9129300559
S9129300560
S9129300561
S9129300562
S9129300563
S9129300564

Model: Sh-MF1 (Only for Health Care Model)	Date: 18-Apr-13	No.: RM052056
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S9128700889	S9129200950	S9129300565
S9128700891	S9129200951	S9129300566
S9128700892	S9129200952	S9129300567
S9128700900	S9129200953	S9129300568
S9128700904	S9129200954	S9129300570
S9128700906	S9129200955	S9129300571
S9128700929	S9129201233	S9129300572
S9128700933	S9129201235	S9129300573
S9128700935	S9129201236	S9129300574
S9128700936	S9129300002	S9129300575
S9128700937	S9129300003	S9129300576
S9128700938	S9129300004	S9129300577
S9128700939	S9129300278	S9129300578
S9128700940	S9129300309	S9129300584
S9128701021	S9129300311	S9129300585
S9128701029	S9129300313	S9129300586
S9128800021	S9129300315	S9129300587
S9129100715	S9129300316	S9129300588
S9129100717	S9129300322	S9129300589
S9129100778	S9129300324	S9129300590
S9129100797	S9129300325	S9129300591
S9129100799	S9129300327	S9129300592
S9129100802	S9129300336	S9129300593
S9129100803	S9129300339	S9129300594
S9129100804	S9129300340	S9129300595
S9129100806	S9129300341	S9129300602
S9129100807	S9129300342	S9129300604
S9129100808	S9129300344	S9129300605
S9129100810	S9129300346	S9129300606
S9129100819	S9129300351	S9129300607
S9129200005	S9129300352	
S9129200006	S9129300353	

- Product code: 5K3965

S9128600002	S9128700961	S9128701242
S9128600004	S9128700964	S9128701250
S9128700110	S9128700967	S9128701251
S9128700112	S9128700968	S9128701257
S9128700116	S9128700969	S9128701258
S9128700117	S9128700970	S9128800001
S9128700145	S9128700971	S9128800005
S9128700149	S9128700972	S9128800007
S9128700211	S9128700973	S9128800008
S9128700214	S9128700974	S9128800010
S9128700243	S9128700975	S9128800012
S9128700247	S9128700986	S9128800013



Model: Sh-MF1 (Only for Health Care Model)		Date: 18-Apr-13	No.: RM052056
S9128700248	S9128700987	S9128800014	
S9128700249	S9128700988	S9128800015	
S9128700250	S9128700990	S9128800022	
S9128700257	S9128700991	S9128800023	
S9128700258	S9128700992	S9129100761	
S9128700260	S9128700993	S9129100800	
S9128700274	S9128700995	S9129100805	
S9128700277	S9128700996	S9129200015	
S9128700278	S9128700997	S9129200016	
S9128700279	S9128701002	S9129200024	
S9128700281	S9128701003	S9129200034	
S9128700284	S9128701005	S9129200035	
S9128700633	S9128701009	S9129200036	
S9128700635	S9128701010	S9129200900	
S9128700636	S9128701011	S9129200908	
S9128700637	S9128701012	S9129200935	
S9128700638	S9128701023	S9129200937	
S9128700641	S9128701024	S9129200938	
S9128700643	S9128701025	S9129200943	
S9128700647	S9128701026	S9129201234	
S9128700654	S9128701027	S9129300001	
S9128700694	S9128701028	S9129300177	
S9128700719	S9128701055	S9129300276	
S9128700742	S9128701056	S9129300312	
S9128700755	S9128701057	S9129300314	
S9128700760	S9128701058	S9129300317	
S9128700762	S9128701071	S9129300318	
S9128700786	S9128701073	S9129300319	
S9128700789	S9128701103	S9129300320	
S9128700799	S9128701105	S9129300323	
S9128700805	S9128701113	S9129300332	
S9128700807	S9128701114	S9129300347	
S9128700808	S9128701117	S9129300349	
S9128700809	S9128701118	S9129300350	
S9128700810	S9128701119	S9129300429	
S9128700811	S9128701121	S9129300431	
S9128700812	S9128701124	S9129300433	
S9128700821	S9128701127	S9129300434	
S9128700825	S9128701128	S9129300435	
S9128700826	S9128701129	S9129300436	
S9128700831	S9128701133	S9129300437	
S9128700832	S9128701134	S9129300438	
S9128700835	S9128701135	S9129300439	
S9128700838	S9128701163	S9129300440	
S9128700839	S9128701165	S9129300442	
S9128700841	S9128701172	S9129300446	
S9128700842	S9128701175	S9129300447	

Model: Sh-MF1 (Only for Health Care Model)		Date: 18-Apr-13	No.: RM052056
S9128700843	S9128701176	S9129300449	
S9128700844	S9128701177	S9129300493	
S9128700846	S9128701181	S9129300494	
S9128700847	S9128701182	S9129300495	
S9128700852	S9128701183	S9129300496	
S9128700853	S9128701184	S9129300545	
S9128700857	S9128701186	S9129300546	
S9128700865	S9128701187	S9129300547	
S9128700868	S9128701188	S9129300548	
S9128700870	S9128701189	S9129300579	
S9128700871	S9128701191	S9129300580	
S9128700873	S9128701192	S9129300581	
S9128700874	S9128701193	S9129300582	
S9128700875	S9128701194	S9129300583	
S9128700876	S9128701197	S9129300608	
S9128700877	S9128701200	S9129300609	
S9128700878	S9128701213	S9129400008	
S9128700879	S9128701218	S9129400009	
S9128700882	S9128701219	S9129400010	
S9128700902	S9128701221	S9129400011	
S9128700913	S9128701225	S9129400019	
S9128700923	S9128701226	S9129400021	
S9128700924	S9128701229	S9129400022	
S9128700930	S9128701230	S9129400024	
S9128700932	S9128701231	S9129400032	
S9128700934	S9128701233	S9129400033	
S9128700946	S9128701239	S9129400035	
S9128700950	S9128701240	S9129400036	
S9128700957	S9128701241	S9129400284	

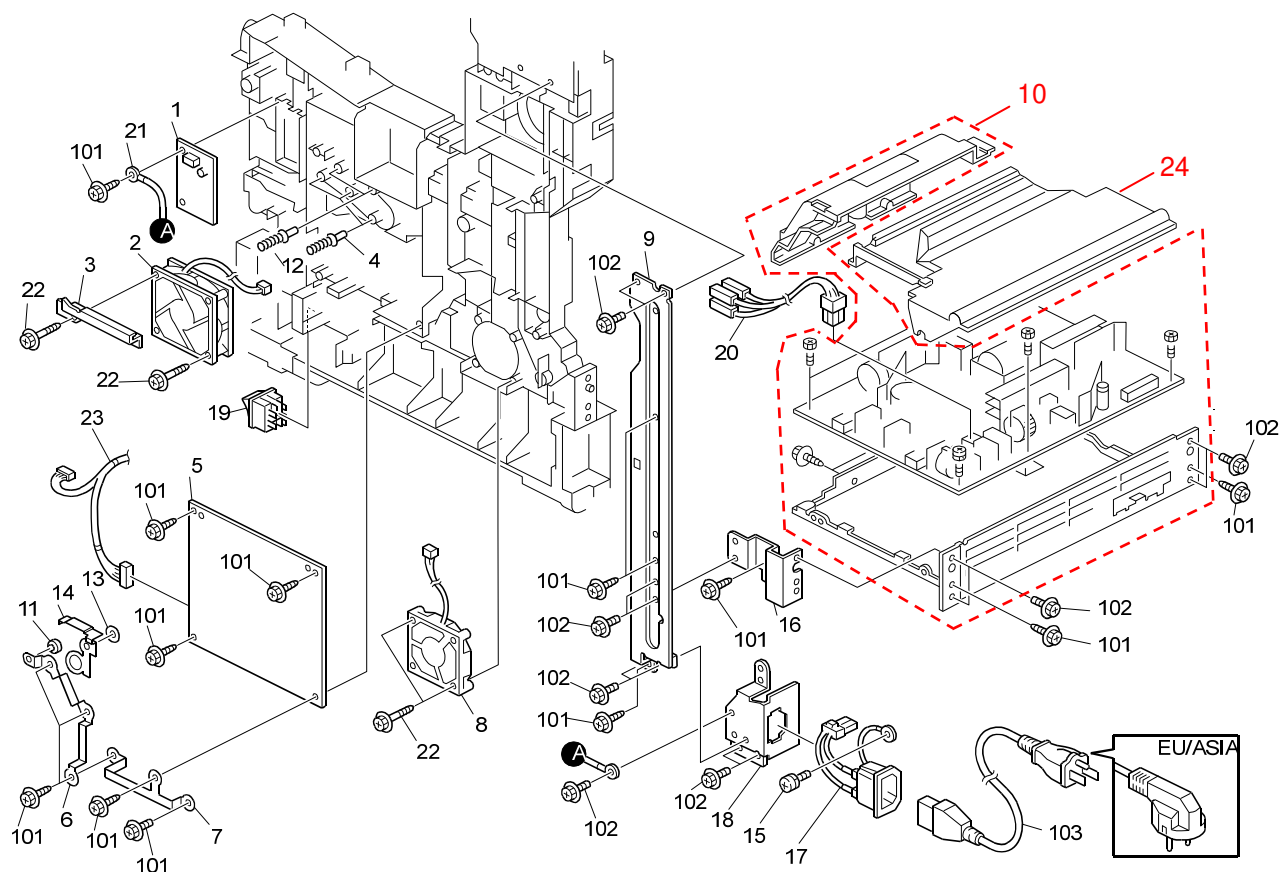


Model: Sh-MF1		Date: 17-May-13	No.: RM052057
Subject: Parts Catalog Correction (PSU)		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Part number	Description	Q'ty	Int	Page	Index	Note
M052 5020	Power Supply Unit:264W:NA:Ass'y	1	-	93	10	
M052 5021	Power Supply Unit:364W:EU/AP:Ass'y	1	-	93	10	
M052 1162	COVER:POWER SUPPLY UNIT:MIDDLE	1	-	93	24	

**Change:** The illustration was corrected as follows.

**Reason:** The upper cover of the PSU is an individual service part (not included in the PSU assembly).



Model: Sh-MF1		Date: 03-Jun-13	No.: RM052058a
Subject: AIO tension spring latch holder break		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service 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"/> Product Safety	<input type="checkbox"/> Other (      )	<input checked="" type="checkbox"/> Tier 2

## SYMPTOM

Part of the image is missing.



## CAUSE

The latch holder for the AIO tension spring breaks.

**Note 1:** AIOs from March 2013 production are affected (how to recognize is described below)

**Note 2:** Units which are already reworked can be identified with a mark.

### Marking Example:



Model: Sh-MF1

Date: 03-Jun-13

No.: RM052058a

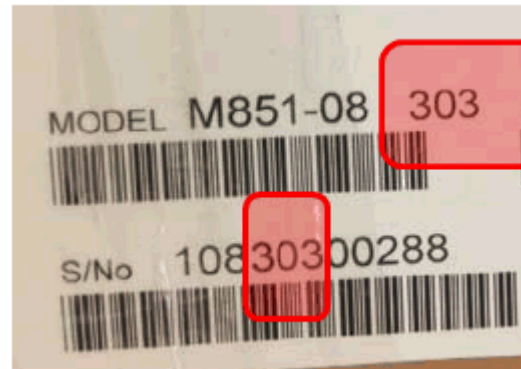
AIO Serial N# structure :

Serial number

06M851141303000010  
06M851141303000021  
06M851141303000015  
06M851141303000077  
06M851141303000078  
06M851141303000084  
06M851141303000075  
06M851141303000085  
06M851141303000086

Year & Month of production  
(1303 = March 2013)

Box:



Cartridge

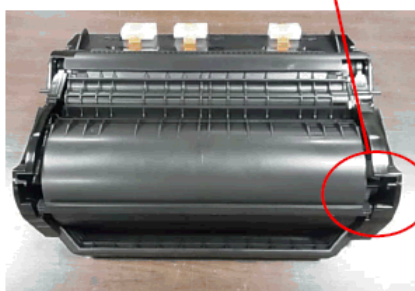
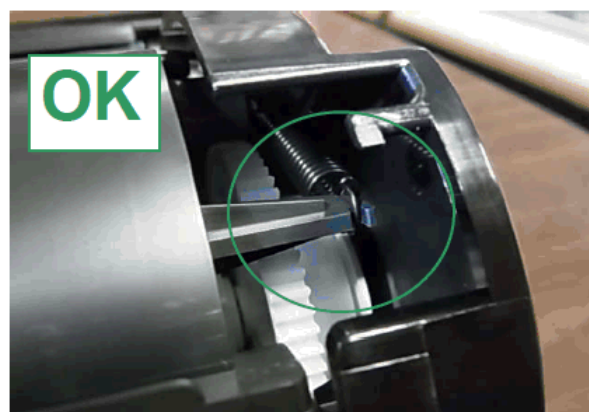
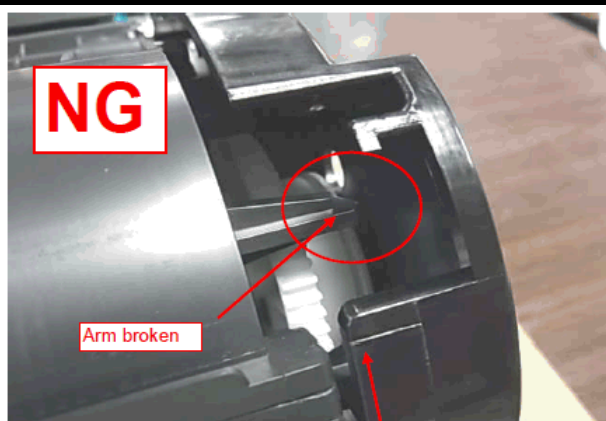


303 or newer is the objective (until further notice)

Model: Sh-MF1

Date: 03-Jun-13

No.: RM052058a



### Field Countermeasure (Immediate / temporary Fix)

Create a hook in the AIO latch holder (see photo) and attach the tension spring.

**See procedure below.**

Final countermeasure / solution is under investigation

**Note:** If you lose the tension spring, it can be ordered as a service part.

Part number	Description	Q'ty	Int	Page	Index	Note
M0212321	COIL SPRING:DEVELOPMENT ROLLER:LEFT	1	-	-	-	

Model: Sh-MF1

Date: 03-Jun-13

No.: RM052058a

**Procedure for creating a hook in the AIO frame**

1. Remove the AIO from the machine.
2. Turn the AIO upside down, as shown in the photo.
3. Remove the AIO shutter (arm and lever).



4. Remove the cover on the right side (screws x 4).



5. Place a sheet of A4 sized paper on the drum, as shown.

**Note:** This is to prevent any scratches or finger marks on the drum surface.



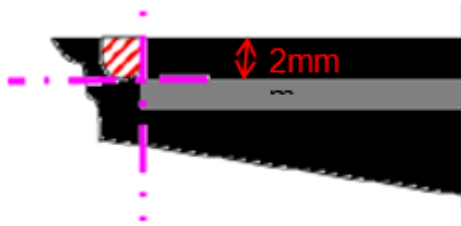
6. Throw away the broken latch holder, and keep the tension spring.  
If spring and broken hook have not been found inside the AIO polybag, find the missing parts (inside cover, behind gears etc...)

Model: Sh-MF1

Date: 03-Jun-13

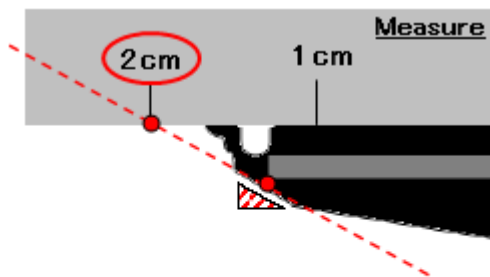
No.: RM052058a

7. Create a hook in the AIO frame as shown below.


**Important:**

- Make sure **not to cut below the rib**, as shown in the diagram below. To do this, cut to a depth of **less than 2mm**.
- Create a new spring latch in the AIO frame above the rib, using a knife or soldering tool (soldering tool is preferred, to prevent contamination).
- If you use a soldering tool, set the temperature to about 260C.

8. Cut off the corner below the rib, and create a new latch as shown in the pictures.



9. Wait at least 10 seconds.

10. Remove any loose plastic chips.

11. Clean the “new” hook with an alcohol-soaked cloth.

12. Soak the spring in alcohol.



Model: Sh-MF1

Date: 03-Jun-13

No.: RM052058a

13. Clean all of the grease off the spring loop using a Q-tip (cotton swab) or brush.



14. Make sure that the gears and other coupled parts are in the correct position.



15. Attach the spring to the cover that you removed in Step 4.

**Important:**

- Clean your hands before doing this step.
- Make sure that the **grease on the gears does not touch** the spring or hook. This can cause damage during machine operation.



16. Attach the spring to the new hook, and then reattach the cover (self tapping screws x 4).

**Important:** Clean your hands before doing this step.



17. Make sure that the spring is attached correctly and is not touching the white gear.

18. Take the A4 sheet off the drum and attach the drum shutter (arm and lever as removed in step 3).

Model: Sh-MF1

Date: 03-Jun-13

No.: RM052058a

19. Make sure that the drum shutter moves smoothly.



20. Make sure that you can see the seven white wheels circled below.



21. Reinstall the AIO unit.

22. Make some test copies/prints and check that the image quality is normal and no abnormal noise is heard.



Model: Sh-MF1		Date: 10-Jun-13	No.: RM052059
Subject: Parts Catalog Correction (Rear Cover for Operation Panel)		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Please apply the following change to your Parts Catalogs.

Incorrect part number	Correct part number	Description	Q'ty	Int	Page	Index	Note
M0261570	M0521570	COVER:REAR:SNK	-	-	17	1	

Model: Sh-MF1		Date: 30-Jul-13	No.: RM052060
Subject: Parts Change Information for BICU		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M0525012	M0525015	PCB:BICU:SM1:ASS'Y	1-1	X/O	-	-	

**Change:** The driver IC of this PCB was changed.

**Reason:** To further improve motor driver performance.

**Note:** For information about P/N M0525012, see RTB #**RM052023**.



Model: Sh-MF1		Date: 15-Aug-13	No.: RM052061
Subject: FSM Correction for Sensor Board Unit (SBU) Replacement		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Service Manual Correction

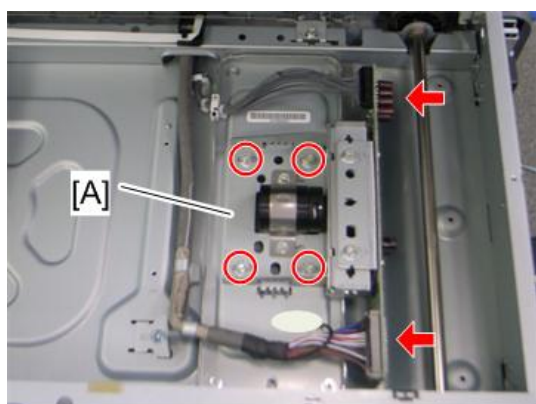
The photo below was corrected as shown.

## 4. Replacement and Adjustment

- Sensor Board Unit (SBU)

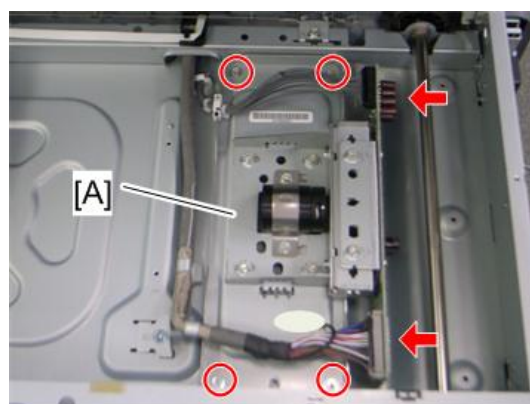
No 4. Sensor board unit [A] (  x 4,  x 2).

Incorrect:



m052r558

Correct:



m052r558

Model: Sh-MF1		Date: 1-Oct-13	No.: RM052062
Subject: Data Overwrite Security Unit Type I		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service 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 checked="" type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (      )	<input type="checkbox"/> Tier 2

## Service Manual Revision

Please revise the following in the Service Manual.

# Data Overwrite Security Unit Type I (D362)

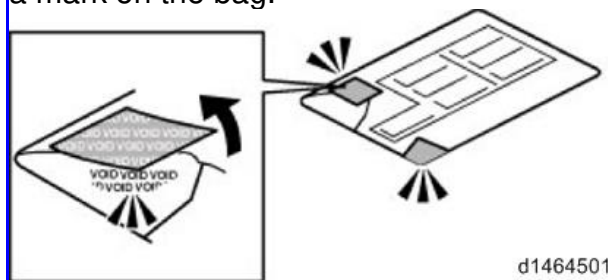
**Note**

The machine's hard disk stores all document data from the Copier, Printer, and Scanner functions. It also stores the data of users' Document Server and code counters, and the Address Book. To prevent data on the hard disk being leaked before disposing of the machine, you can overwrite all data stored on the hard disk (Erase All Memory). You can also automatically overwrite temporarily-stored data (Auto Erase Memory).

## Component List

**IMPORTANT:**

Before opening the corrugated envelope, make sure that the seal has not been broken or peeled off. If the seal has been broken or peeled off (even partially), this is considered an arrival defect. Note that once the seal is peeled off, this will leave a mark on the bag.



d1464501

Description	Part number	Qty
Data Overwrite Security SD Card	D3625111C	1
Comments Sheet	D3777250	1
Operating Instructions CD-ROM	D3777900A	1

## Installation Procedure

### ⚠ CAUTION:

Before you begin this procedure, make sure to turn off the main power switch, and then remove the power cord from the outlet. If you do not, this may result in electrical shock and/or a machine failure.

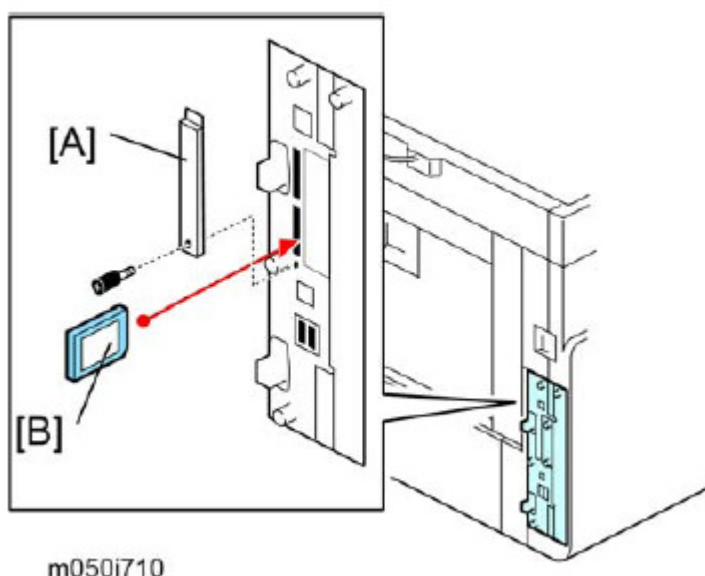
### IMPORTANT:

Confirm the following settings and then change them if necessary, as described below. If you do need to change them, inform the customer that this is necessary in order to install the option.

1. Make sure that the following are **not** at their factory default values:
  - Supervisor login name and password
  - Administrator login name and password
2. Make sure that Admin. Authentication is **ON**.  
*[System Settings] – [Administrator Tools] – [Administrator Authentication Management] – [Admin. Authentication]*
3. Make sure that Administrator Tools is **enabled (selected)**.  
*[System Settings] – [Administrator Tools] – [Administrator Authentication Management] – [Available Settings]*

**Note:** See the Operating Instructions (Security Guide) for the factory default values.

1. Disconnect the network cable from the machine.
2. Remove the SD slot cover [A] (⚙ ×1).
3. Push the SD card for the **Data Overwrite Security Unit Type I [B]** slowly into Slot 2 (lower slot), until you hear a click.



### IMPORTANT:

If you wish to merge multiple applications onto a single SD card, do the merge now before moving onto the next step.

Model: Sh-MF1

Date: 1-Oct-13

No.: RM052062

4. Insert the power cord into the outlet, and then turn on the main power switch.
5. Access System/Copy SP mode.
6. Do this step **only if you are installing the option on a machine that is already in use** (not a new machine):
  - If the customer wishes to **continue using the same hard disk**:  
Execute all three SP modes below.  
**SP5-801-014 (Clear DCS Setting)**  
**SP5-832-001 (HDD Formatting (ALL))**  
**SP5-832-002 (HDD Formatting (IMH))**
  - If customer wishes to **replace the hard disk with a new one**:  
Execute **SP5-801-014** only.

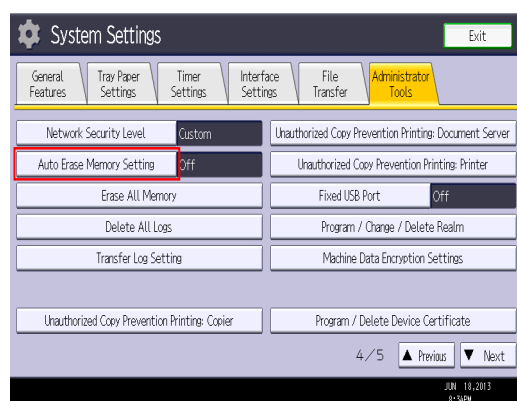
**Note:** If the customer continues using the same hard disk, the overwriting of the data stored on the disk before the option is installed cannot be guaranteed. It is highly recommended to replace the hard disk with a new one.

7. Set **SP5-836-001 (Capture Function (0:Off 1:On))** to a value of **0** (disable).
8. Execute **SP5-878-001 ([Option Setup : Data Overwrite Security])**.  
**Note:** If the installation fails, "Installation failed" is displayed when this SP is executed.
9. Print out the System Settings List and make sure that the option was installed successfully.
10. Turn off the main power switch.
11. Reattach the SD slot cover.
12. Reconnect the network cable.
13. Insert the power cord into the outlet and turn on the main power switch.
14. Execute **SP5-990-005** (SP print mode Diagnostic Report).
15. Make sure that ROM number "**D3775912B**" and firmware version "**1.02m**" appear in both of the following areas on the report (**they must match**):  
 "ROM Number / Firmware Version" – "HDD Format Option"  
 "Loading Program"

## Configuring "Auto Erase Memory" (Performed by the Customer)

The following procedure is performed by the customer once the above Installation Procedure has been completed.

1. Press [System Settings].
2. Press [Administrator Tools].
3. Press [Next] three times.
4. Press [Auto Erase Memory Setting].

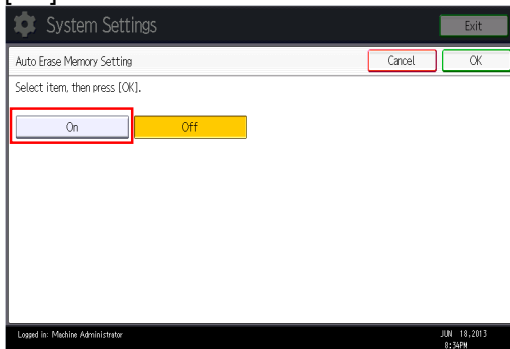


Model: Sh-MF1

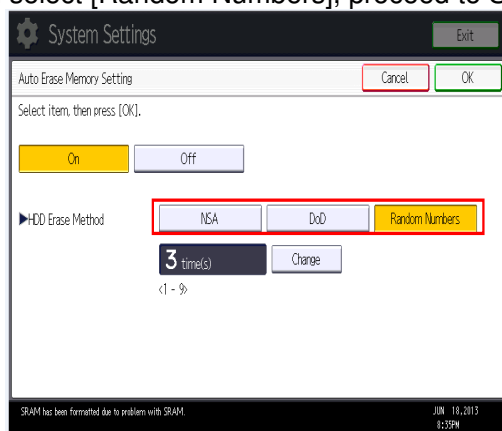
Date: 1-Oct-13

No.: RM052062

5. Press [On].



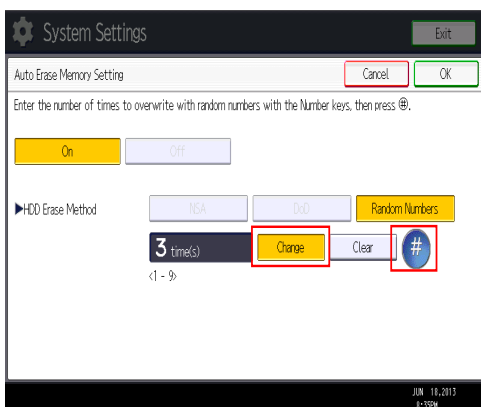
6. Select the method of overwriting.  
If you select [NSA] or [DoD], proceed to Step 9.  
If you select [Random Numbers], proceed to Step 7.



7. Press [Change].

8. Enter the number of times that you want to overwrite using the ten keys, and then press [#].

**Note:** The Random Numbers method overwrites the data using random numbers.  
You can set the overwrite to be performed anywhere from 1-9 times, with a default of 3 times.



9. Press [OK].

10. Make sure that the Data Overwrite icon is displayed in the bottom right hand corner of the screen.

11. Take a test copy, and then make sure that the Data Overwrite icon changes from “Dirty” (solid) to “Dirty” (blinking), and then to “Clear”.

**Note:**

- If the Data Overwrite icon does not change to Clear, check to see if there are any active

Model: Sh-MF1

Date: 1-Oct-13

No.: RM052062

Sample Print or Locked Print jobs. A Sample Print or Locked Print job can only be overwritten after it has been executed.

- The Dirty icon blinks while an overwrite is in progress.
- If you use your machine for a while with Auto Erase Memory disabled, and then suddenly enable it, the overwrite process may take 10 or more hours depending on HDD usage.

Data Overwrite icon:

- Clear (There is no temporary data to be overwritten)



- Dirty (There is temporary data to be overwritten)





**Reissued: 06-Mar-14**

Model: Sh-MF1	Date: 29-Oct-13	No.: RM052063b
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**RTB Reissue**

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

Subject: End Fence Spacer		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/Printer Tech Service 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"/> Product Safety	<input type="checkbox"/> Other (      )	<input checked="" type="checkbox"/> Tier 2

**NOTE: The SOLUTION in this RTB is effective for reducing paper feed jams and non-feed jams.**

**SYMPTOM**

A paper feed jam or non-feed occurs when feeding the paper from a mainframe paper tray.

**CAUSE**

End fence is not set correctly.

**SOLUTION**
**Production line**

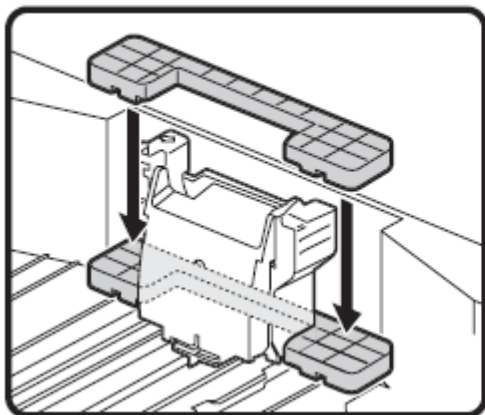
- A.** A spacer was added behind the end fence.
- B.** An instructional leaflet for users was inserted in the paper tray.
- C.** The side fence and end fence are fixed in the LT position before shipment from the factory. (NA only)
- D.** ***A spacer with reinforced double-sided tape was added (P/N: M0212570).***

**In the field**

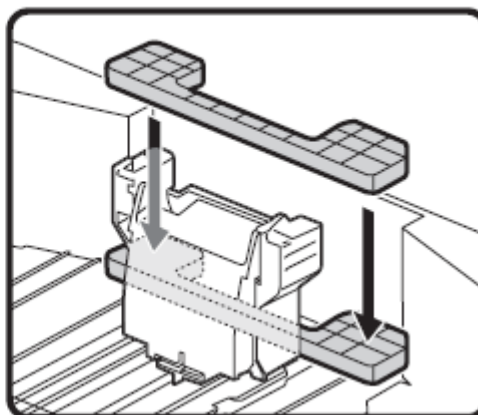
Attach the following parts (***P/N: M0212570***) behind the end fence, as shown, using double-sided tape.

**Reissued: 06-Mar-14**
**Model: Sh-MF1**
**Date: 29-Oct-13**
**No.: RM052063b**

## A4/Legal



## Letter



### Cut-in Serial Numbers

The cut-in serial numbers for each modification are as follows.

**A:** Spacer added

**B:** Instructional leaflet for users added

**C:** Side fences and end fence fixed in LT position (NA only)

**D:** *Spacer with reinforced double-sided tape added*

**NA:**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>M052-57</b>	S9039100696 ~	S9039400008 ~	S9039400481 ~	<b>TBA</b>
<b>M053-57</b>	S9139200145 ~	S9139400165 ~	S9129400307 ~	<b>TBA</b>
<b>M054-57</b>	S9239200312 ~	S9239400073 ~	S9239400217 ~	<b>TBA</b>

**EU:**

TBA

**AA:**

	<b>A</b>	<b>B</b>	<b>D</b>
<b>M052-69</b>	S9039200575 ~	S9039200626 ~	<b>TBA</b>
<b>M053-69</b>	TBA	TBA	<b>TBA</b>
<b>M054-69</b>	TBA	TBA	<b>TBA</b>

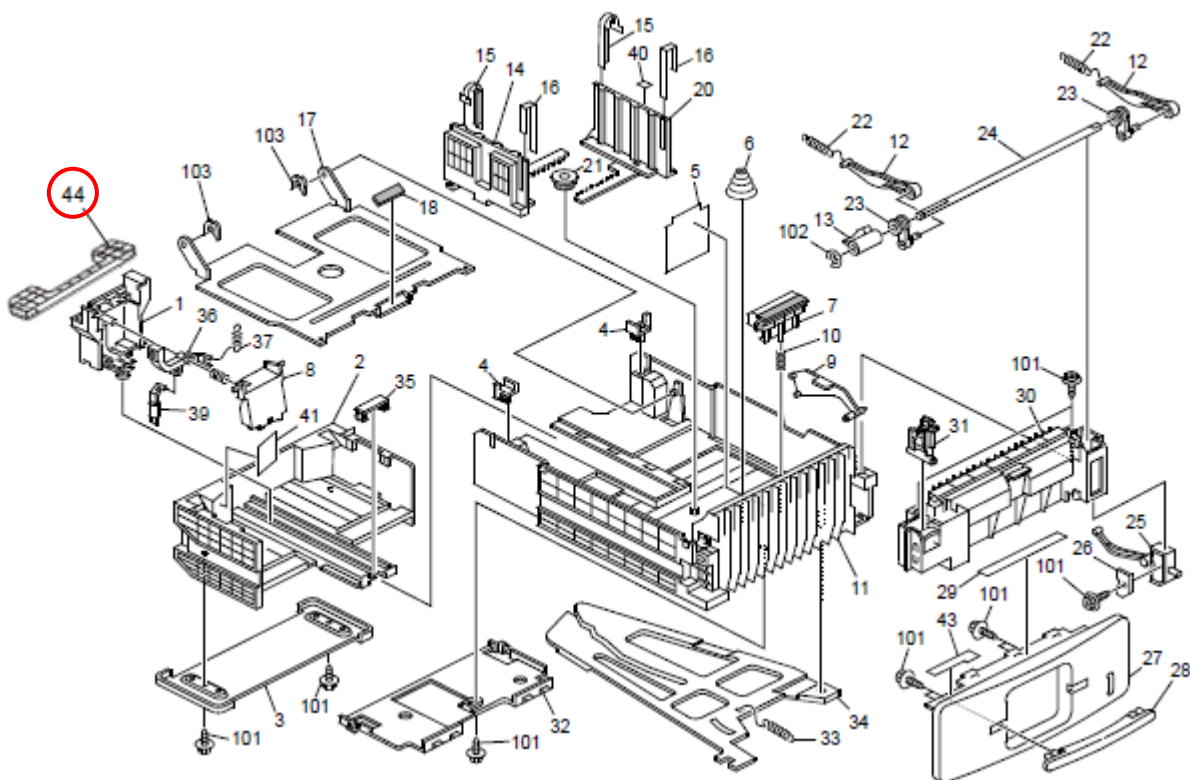
Model: Sh-MF1		Date: 17-Dec-13	No.: RM052064
Subject: Parts Catalog Correction (End Fence Spacer)		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input checked="" type="checkbox"/> Part information	<input type="checkbox"/> 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"/> Product Safety	<input type="checkbox"/> Other (        )	<input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	M0212564	END FENCE:SPACER	0-1	-	45	44	

**Change:** A spacer was added.

**Reason:** To make sure that the operator sets the end fence in the correct position.

## 18.Paper Tray (M052/M053/M054)



Model: Sh-MF1		Date: 05-Feb-14	No.: RM052065
Subject: Filter for an odor from right fan		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## SYMPTOM

An odor may be emitted from the fan on the right side of the machine.

## CAUSE

This may be noticeable depending on the type of paper used.

## SOLUTION

Attach the filter (P/N: M0529595 (DUCT: RIGHT SIDE FAN: ASSY)) to cover the fan.

### Filter Attachment Procedure

The P model is used in the following procedure, since the steps are the same for the MF and P models.

1. Set the direction of the louver on the right side of the machine.
  - \* If one or more users works close to the rear side of the machine, aim the louver downward.
  - \* For all other cases, aim the louver toward the rear of the machine.



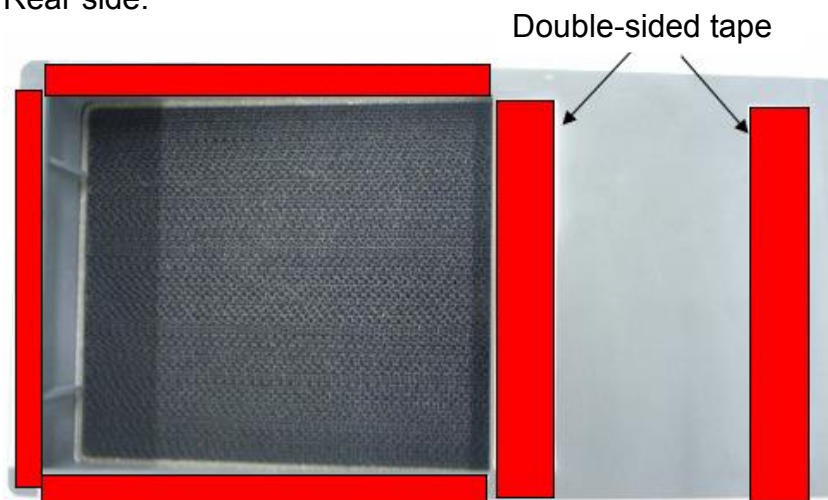
Model: Sh-MF1

Date: 05-Feb-14

No.: RM052065

2. Peel off the double-sided tape attached to the rear side of the filter.

Rear side:



3. Attach the cover over the fan.

\* If you aimed the louver downward in Step 1, attach the cover vertically with the exhaust vent at the bottom.

\* For all other cases, attach the cover horizontally, with the exhaust vent facing toward the rear of the machine (as shown in the photo).



Exhaust vent

Model: Sh-MF1		Date: 05-Feb-14	No.: RM052066
Subject: Parts Catalog Correction (Friction Pad for Bypass Tray)		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
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"/> Product Safety <input type="checkbox"/> Other (      ) <input type="checkbox"/> Tier 2		

Please apply the following change to your Parts Catalogs.

Newly added:

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	G0963072	FRICTION PAD:8X50	1	-	47	23	
	M0522710	HOLDER:FRICTION PAD:MANUAL FEED:ASS'Y	1	-	47	24	

Corrected:

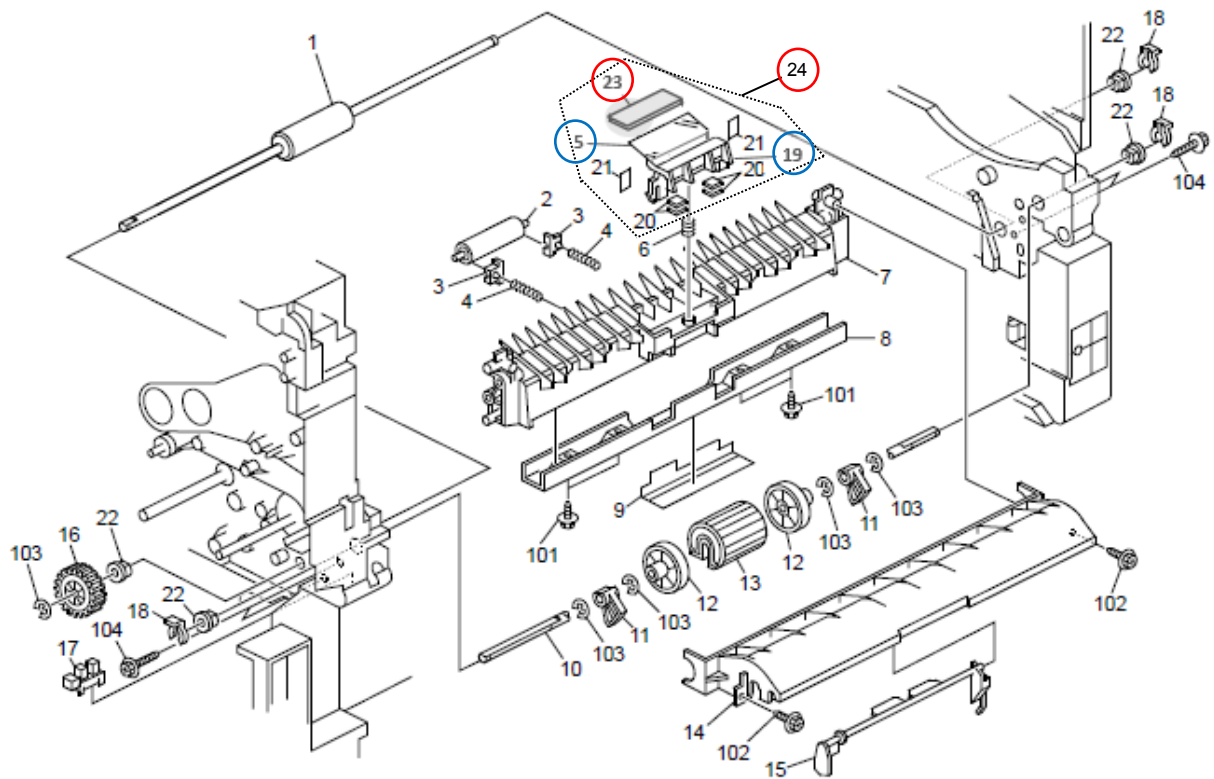
Incorrect part number	Correct part number	Description	Q'ty	Int	Page	Index	Note
M0212711	M0212712	SHEET:HOLDER:FRICTION PAD:MANUAL FEED	-	-	47	5	
M0212712	M0212711	HOLDER:FRICTION PAD:MANUAL FEED	-	-	47	19	

Model: Sh-MF1

Date: 05-Feb-14

No.: RM052066

## 19. Paper Feed 1 (M052/M053/M054)

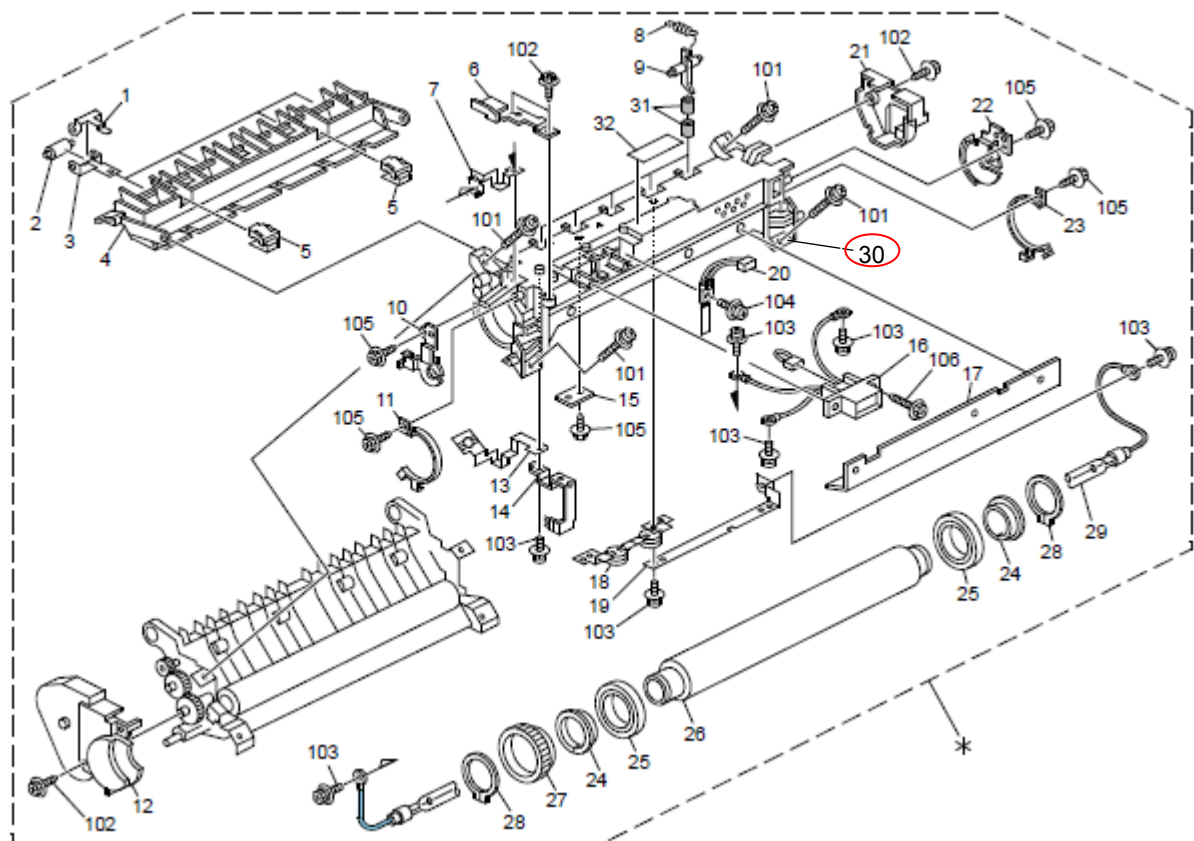


Model: Sh-MF1		Date: 06-Mar-14	No.: RM052067
Subject: Parts Catalog Correction (Upper Frame: Fuser)		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Part Number	Description	Q'ty	Int	Page	Index	Note
M0524080	Upper Frame:Fuser	1	-	57	30	

**Change/Reason:** Index #30 was added (it was missing from the illustration).

## 24.Fusing Unit 1 (M052/M053/M054)





Model: Sh-MF1		Date: 11-Mar-14	No.: RM052068
Subject: Parts Catalog Correction for Paper End Sensor Feeler		Prepared by: T. Nihei	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M0212808	M0212807	FEELER:PAPER END SENSOR:3INCH	1-1	X/X	49	15	Set as X/O
M0212658	M0212659	TRAY BOTTOM PLATE	1-1	X/O	45	17	
M0212811	M0212820	COVER:STAY:RIGHT	1-1	X/O	49	17	

**Change:** The shape of the feeler was changed.

**Reason:** To be able to use the feeler on the HC (Health Care) model.

**Important:** If the feeler for the paper end sensor needs to be replaced, make sure to install both of the new parts shown above **together as a set**.

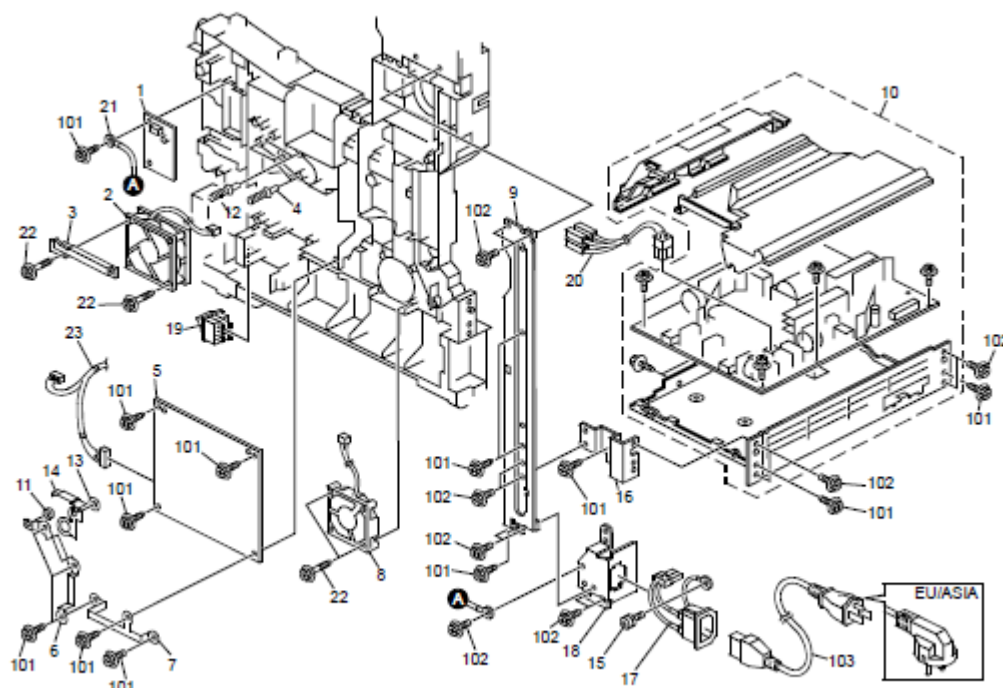
Model: Sh-MF1		Date: 27-May-14	No.: RM052069
Subject: Parts Catalog Correction (AIO terminal )		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Page	Index	Note
M0521191	-	TERMINAL:20MM:POWER PACK:ASS'Y	5	93	12	
-	<b>M0211192</b>	TERMINAL:POWER PACK:20MM:ASS'Y	3	93	4	
-	<b>M0521192</b>	TERMINAL:POWER PACK:25MM:ASS'Y	2	93	12	

**Change/Reason:** The parts in the table had not been correctly registered in the system.

**Note:** A polishing countermeasure has been applied to these terminals.

## 42.Electrical Section 1 (M052/M053/M054)



**Reissued: 19-Jun-14**

Model: Sh-MF1/Z-C1	Date: 12-Nov-10	No.: RM028017a
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**RTB Reissue**

The items in bold italics have been corrected or added.

Subject: Firmware Release Note:ADF_MARCY		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input checked="" type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

This RTB has been issued to announce the firmware release information for the **ADF\_MARCY**.

Version	Program No.	Effective Date	Availability of RFU
<b>01.030:04</b>	<b>M3645604C</b>	<b>June 2014 production</b>	<b>Not Available</b>
01.020:04	M3645604B	1st Mass production	Not Available

**Note: Definition of Availability of RFU via @Remote**
**"Available"** The firmware can be updated via RFU or SD card.

**"Not available":** The firmware can only be updated via SD card.

Version	Modified Points or Symptom Corrected
<b>01.030:04</b>	<b>Other changes:</b> <b>Supports copying and scanning of mixed letter and legal sized originals ("LT/LG Mixed Sizes").</b>  <b>IMPORTANT: To use this feature, make sure that the following firmware versions or newer are also installed.</b>  <b>System/Copy: v2.03 (M0525771G) or later</b> <b>Scanner: v01.04 (M0525777C) or later</b> <b>ADF: v01.030:04 (M3645604C)</b>
01.020:04	1st Mass production

Reissued:07-Oct-14

Model: Sh-MF1	Date: 20-June-14	No.: RM052070c
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## RTB Reissue

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

Subject: Countermeasure: No feed Jam		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## SYMPTOM

Non-feed jam

## POSSIBLE CAUSE

The symptom may occur when one or more of the following conditions are met:

1. The end fence is not set correctly.
2. The pad on the bottom plate contacts the paper tray Mylar.
3. The paper size detection mechanism is disengaged.
4. The paper feed pressure is not strong enough to handle the paper.

## SOLUTION

**In the field:**

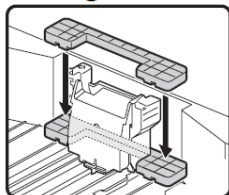
Do the following procedure.

### PROCEDURE

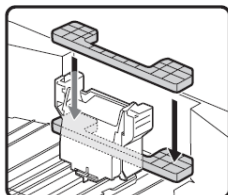
1. Check to see whether the end fence has been set correctly.
  - If it has not been set correctly, go to Step 2 (attaching a spacer/decal).
  - If it has been set correctly, go to Step 3.
2. Attach the P/N M0212570 spacer behind the end fence using double-sided tape OR, attach the M0218840 decal as shown.
  - If the customer uses several paper sizes in one tray, attach the decal instead of the spacer. Otherwise, attach the spacer.

Spacer (P/N #: M0212570)

**A4/Legal**

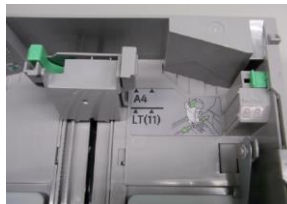
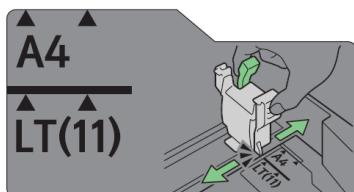


**Letter**



Decal (instructs how to set end fences) (P/N #: ~~M0218840~~, M0212608)

Position:



**Important:** Before attaching the spacer/decal, clean the dust off the attachment surface.

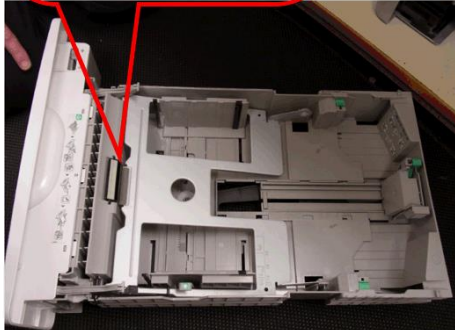
**Reissued:07-Oct-14**

Model: Sh-MF1

Date: 20-June-14

No.: RM052070c

3. Check to see whether the pad on the bottom plate is touching the Mylar.
  - If the pad is touching the Mylar, go to Step 4 (replacing the bottom plate).
  - If the pad is not touching the Mylar, go to Step 5.
4. Replace the bottom plate. (Part #:M0522640)



5. Check to see whether the paper size detection mechanism in the paper tray is engaged.
  - If it is engaged, go to Step 7 (replacing the bottom plate).
  - If it not engaged, go to Step 6.

EngagedDisengaged

Note: The bottom of the end fence passes through the paper size detection rail. When the end fence is pulled up, the bottom of the fence disengages from the paper size detection rail.

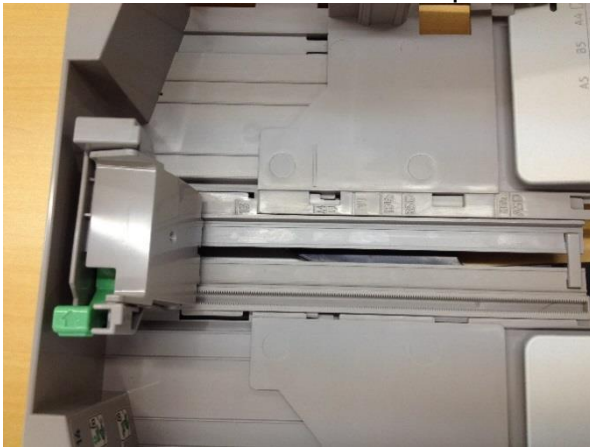
Reissued:07-Oct-14

Model: Sh-MF1

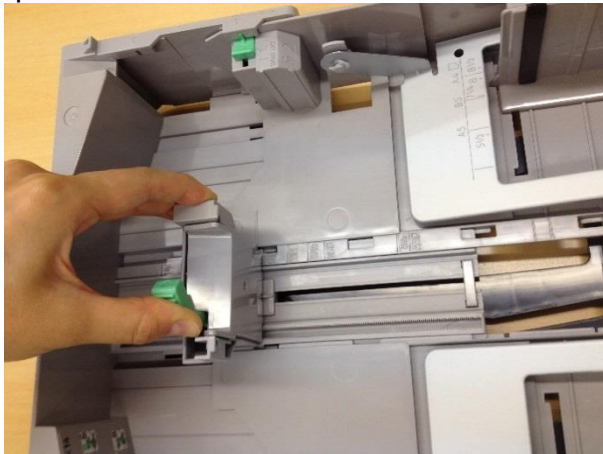
Date: 20-June-14

No.: RM052070c

6. Engage the paper size detection mechanism as follows.
  - Set the end fence to the 14 inch position.



- Slide the end fence while pushing it downward, and set it in the proper position for the paper size.



7. Check to see if the symptom still occurs.
  - If the symptom still occurs, change the position of the paper pressure lever as shown in the photo.
  - **IMPORTANT:** *If you change the lever to the Thick Paper position, and this is effective, DO NOT return the lever to the default position (Normal Paper) after this.*





Reissued:07-Oct-14

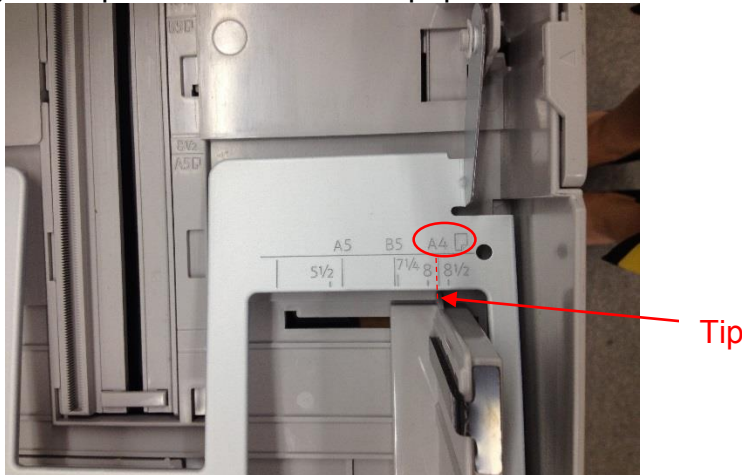
Model: Sh-MF1

Date: 20-June-14

No.: RM052070c

If the symptom still occurs, try the following.

- Check to see whether the side fence is set too tightly.
  - When the side fence set too tightly, the machine needs more power to feed the paper.
  - Align the tip of side fence to the paper size.



OR, if the customer is using LETTER sized paper:  
- Do the following PROCEDURE.

## PROCEDURE

1. Slide the P/N M0212638(side fence lock) toward the left and into the groove.
2. Push down on the part to attach it.

Side fence lock:  
(P/N #: M0212638)



**IMPORTANT:** To remove the countermeasure part, insert a flathead screwdriver into the opening along the upper edge of the part.



**Reissued:07-Oct-14**

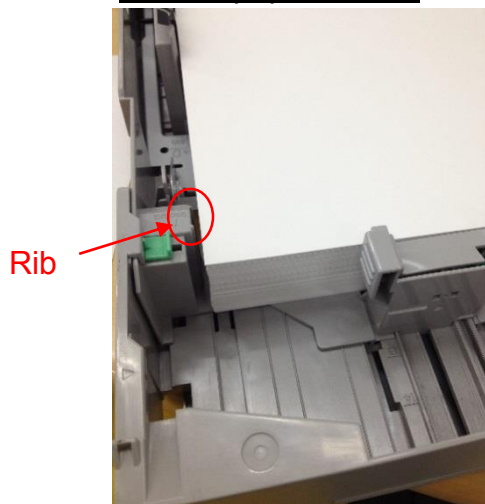
Model: Sh-MF1

Date: 20-June-14

No.: RM052070c

Check to see whether paper has been loaded neatly.

-If the paper is not loaded neatly, the rib may prevent the paper from being fed correctly.

Correct paper loadedIncorrect paper loaded



Model: Sh-MF1 (Only for Health Care Models)		Date: 1-Aug-14	No.: RM052072
Subject: Paper Jam (Code B), or Damage to the leading edge of the paper.		Prepared by: T. Hiraii	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## This is for Health Care models only

### SYMPTOM

One or both of the following occur:

- Paper Jam (Code: B)
- Damage to the leading edge of the paper

### CAUSE

Machines produced before April 2013:

- The Mylar was not manufactured correctly by the vendor
- The Mylar was not attached correctly at the machine assembly factory (REI)

Machines in April 2013 and after (estimated cause):

- It is difficult to attach the Mylar (P/N: M0213026) in the correct position in the field

As a result, even after countermeasures were applied at the parts factory (angle of Mylar improved) and machine factory (a new tool is used for attachment), the symptom still occurs in the field.

### SOLUTION

The film that covers the adhesive surface of the Mylar was separated into two pieces, so that the Mylar can be attached more easily.

#### In the field:

Replace the Mylar with the modified one (see **Procedure** below).

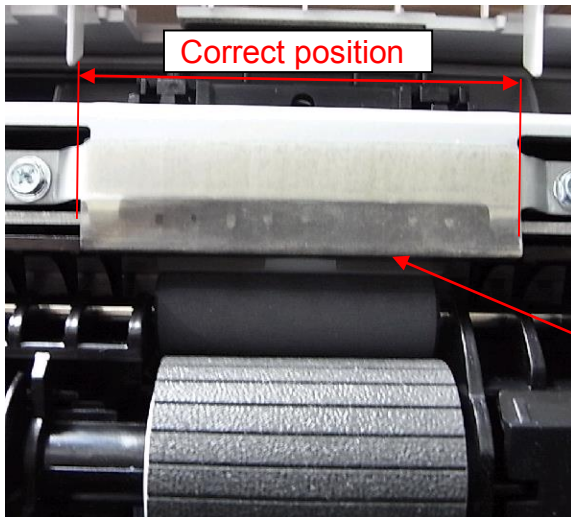
Part number	Description	Q'ty	Int	Page	Index	Note
M0213026	SEAL:CONNECTING:SHINK A	1	-	-	-	* This part is unique to the "Health Care Model"

## PROCEDURE

### Confirmation

Check the condition of the Mylar. If it has been attached incorrectly or there is no Mylar attached, do the **Main Procedure** below.

- **Correct**



- The edges of the guide and Mylar are aligned.
- The Mylar is attached firmly (it is stable).

- **Incorrect**

- The Mylar is not attached in the correct position described above, or
- The Mylar is unstable (not attached firmly), or
- There is no Mylar attached

### Main Procedure

1. Remove paper tray 1.
2. Tilt the machine backwards, as shown in the photo.

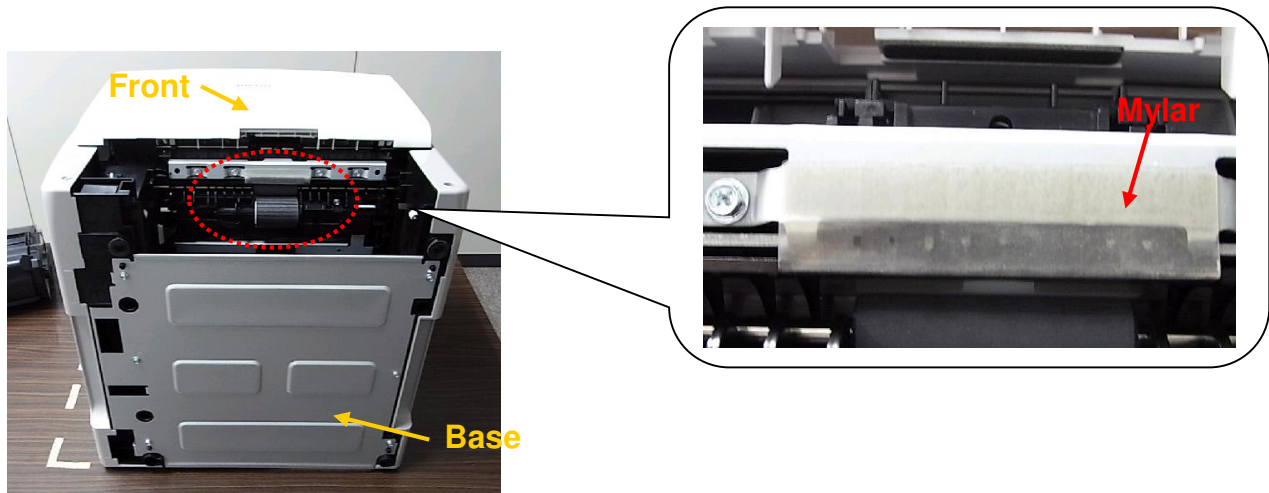


Model: Sh-MF1 (Only for Health Care Models)

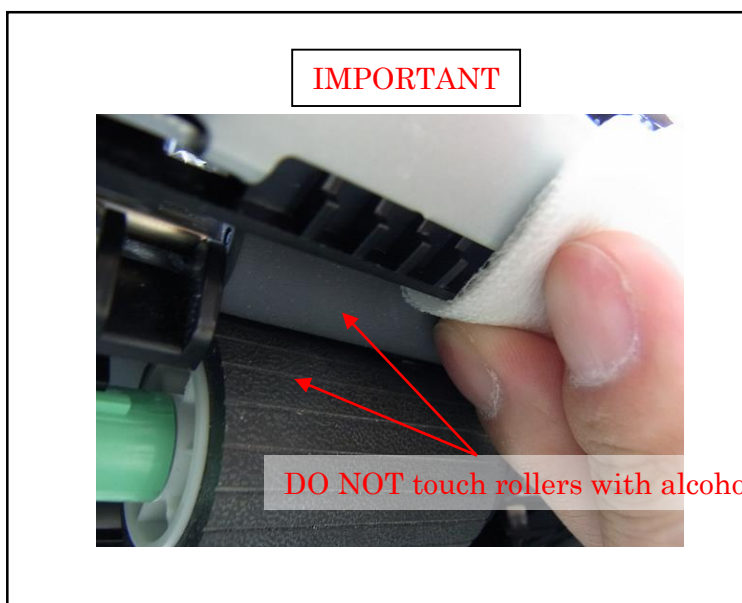
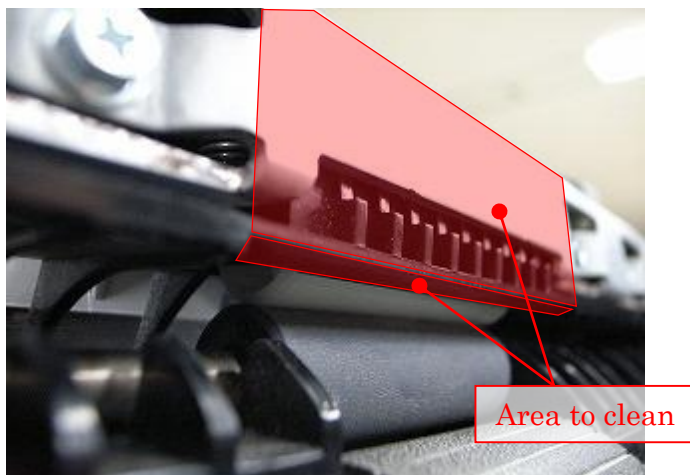
Date: 1-Aug-14

No.: RM052072

3. Remove the Mylar, making sure that none of the double-sided tape remains.



4. Clean both surfaces well (inner/outer) using a towel with alcohol, and dry them well.

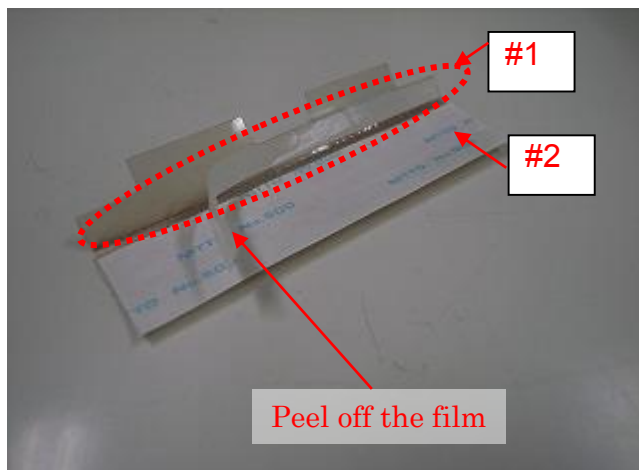


Model: Sh-MF1 (Only for Health Care Models)

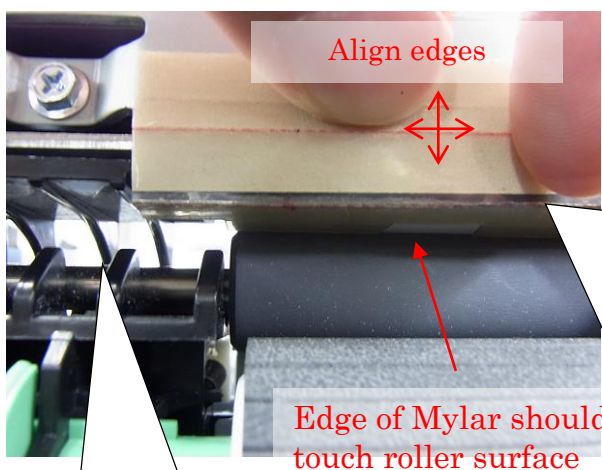
Date: 1-Aug-14

No.: RM052072

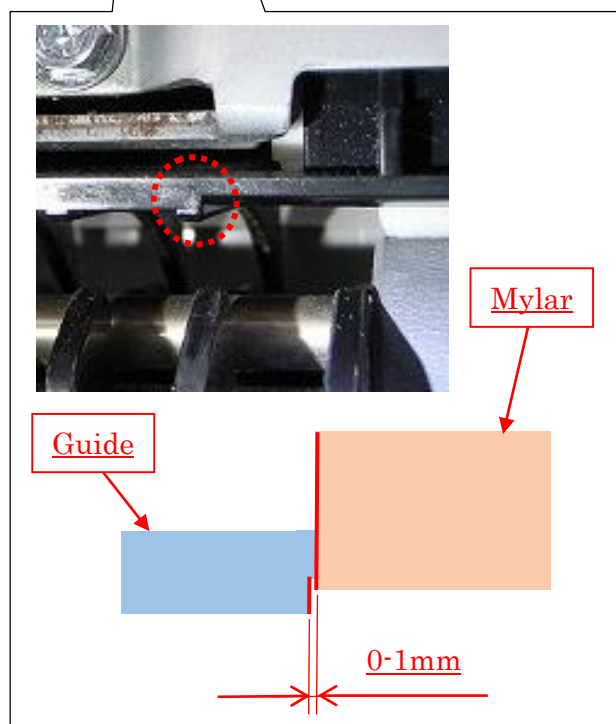
5. Peel off the first strip of film ("Film #1").



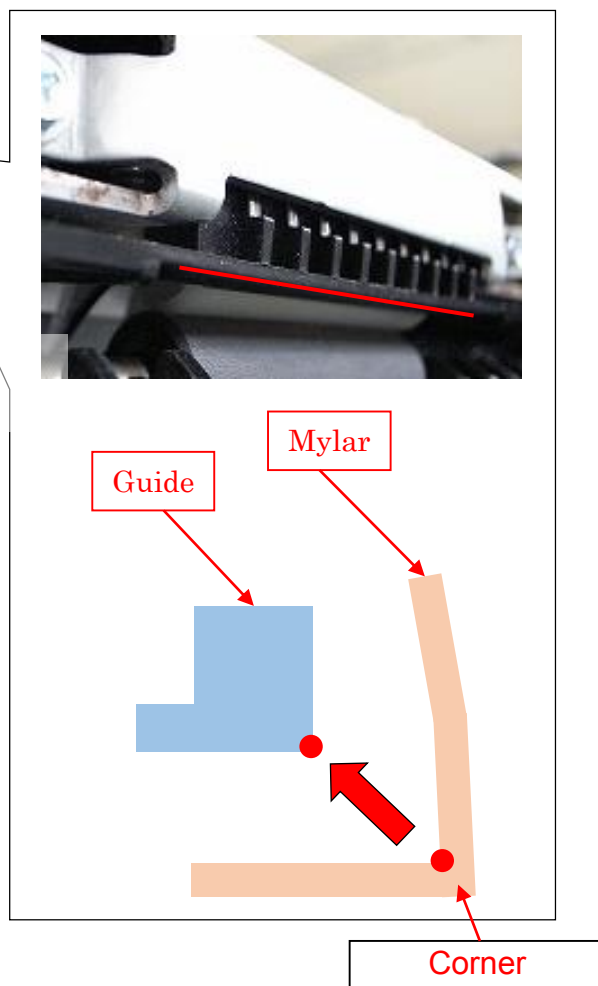
6. Attach the Mylar in the following position:



**Lateral position:**



**Position of Mylar corner (bend):**

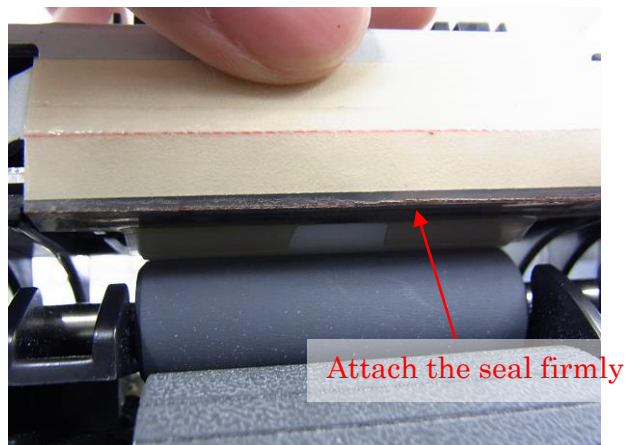


Model: Sh-MF1 (Only for Health Care Models)

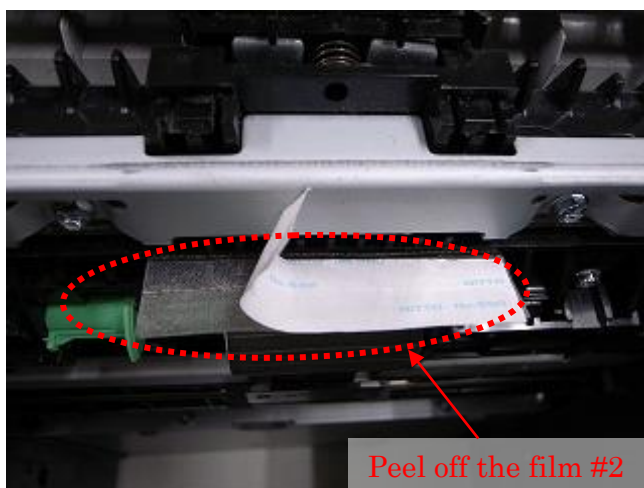
Date: 1-Aug-14

No.: RM052072

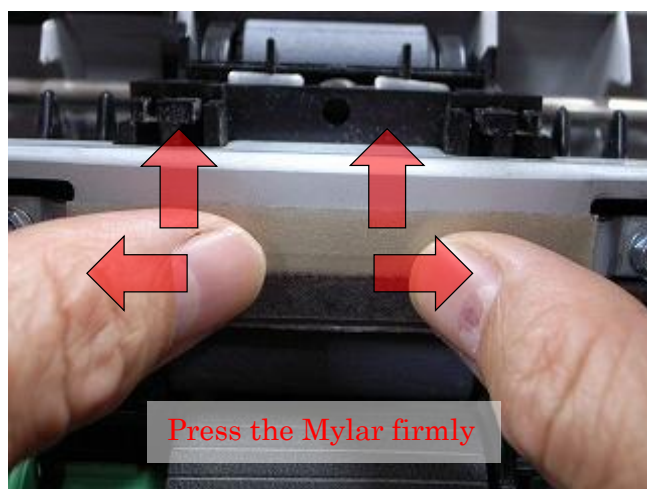
7. Press/squeeze the surface of the seal firmly once you decide the position.



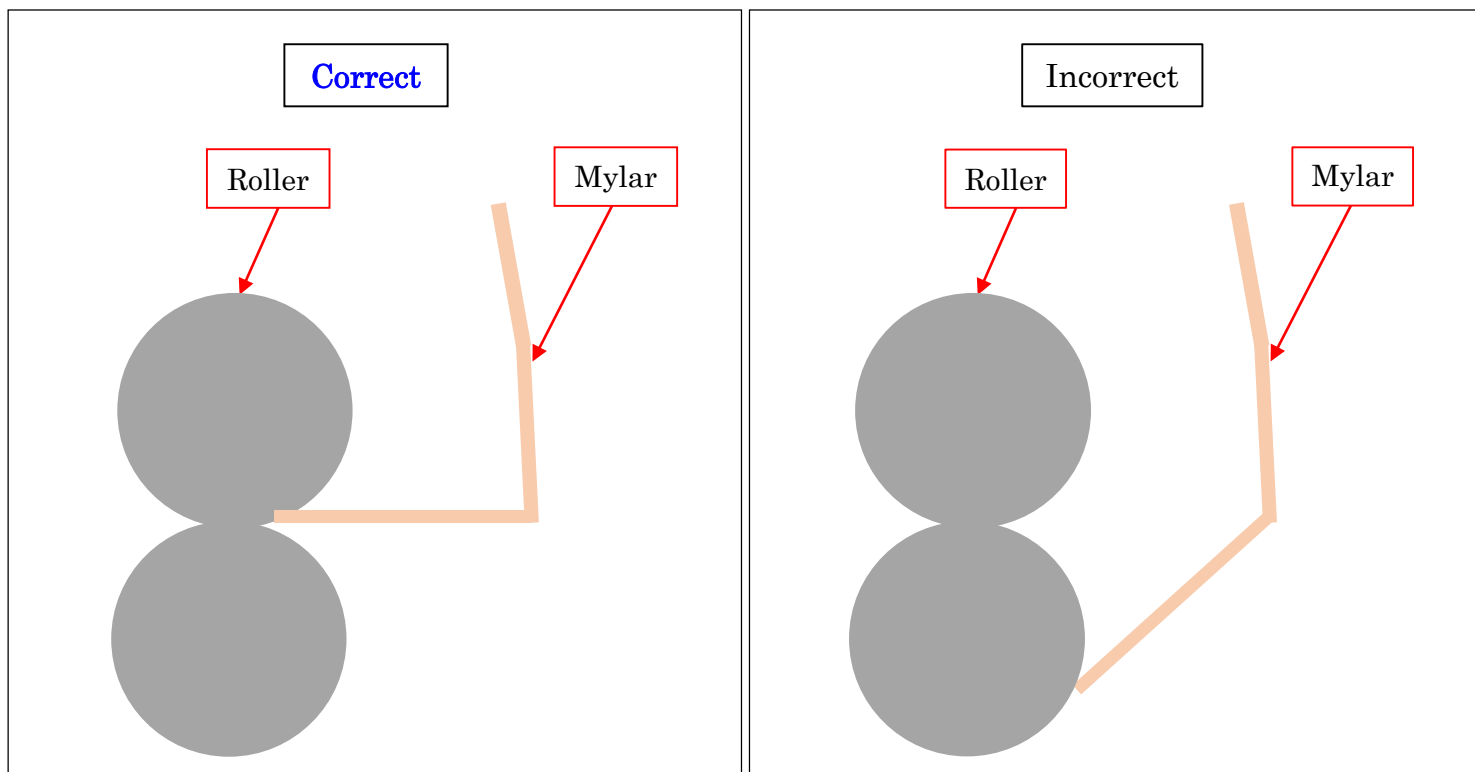
8. Remove Film #2.



9. Press/squeeze the center and edge areas of the Mylar firmly, making sure to apply force evenly across the entire surface.



10. Make sure the Mylar is in the correct position.

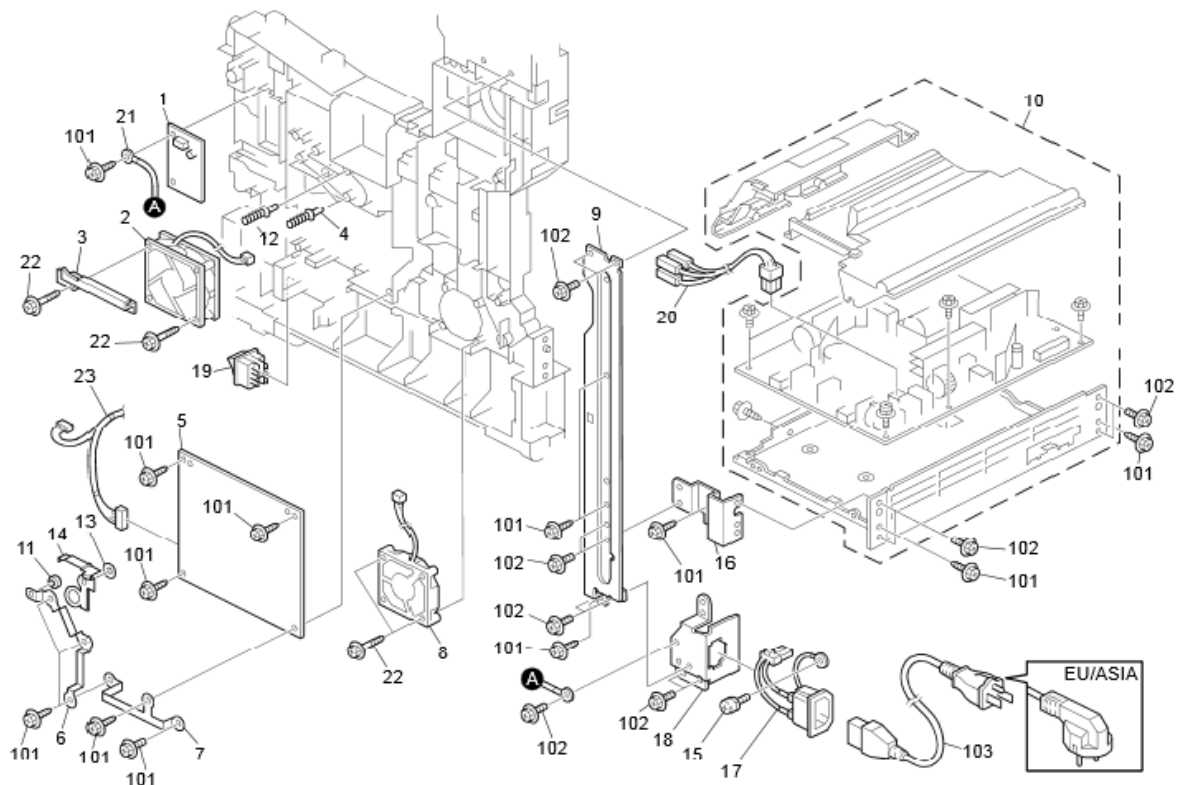




Model: Sh-MF1		Date: 25-Aug-14	No.: RM052073
Subject: Parts Catalog Correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index
M0522939	M0212939	GROUND PLATE:SUB:REGISTRATION ROLLER	1-1	X /O	37	6

## 42.Electrical Section 1 (M052/M053/M054)



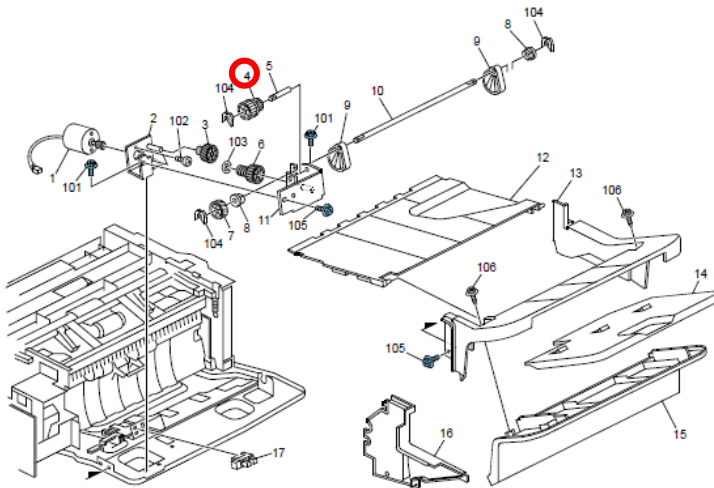
**Change: None.**

**Reason: Parts registration mistake by operator**

Model: Sh-MF1		Date: 8-Oct-14	No.: RM052074
Subject: Parts Catalog Correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

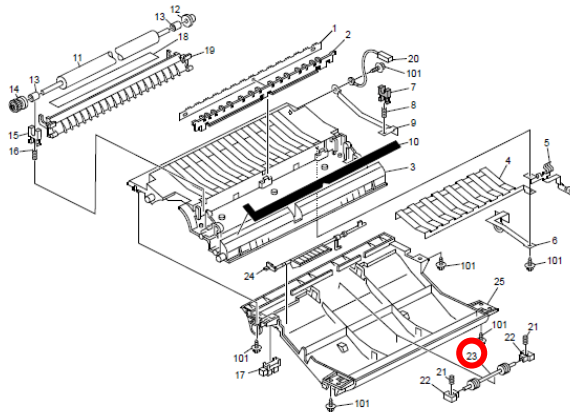
Old part number	New part number	Description	Q'ty	Int	Page	Index
M3653316	M3663316	GEAR:Z20/Z35	1	×/○	73	4
M0214618	M0524618	DRIVEN ROLLER:DUPLEX	2	○/○	53 65	23 12

32.Finisher Section 2 (M052/M053/M054)



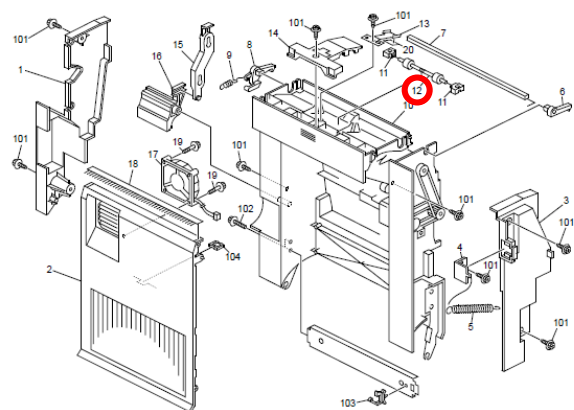
72

22.Paper Transfer 1 (M052/M053/M054)



52

28.Duplex Unit 1 (M052/M053/M054)



64

**Change: None.**

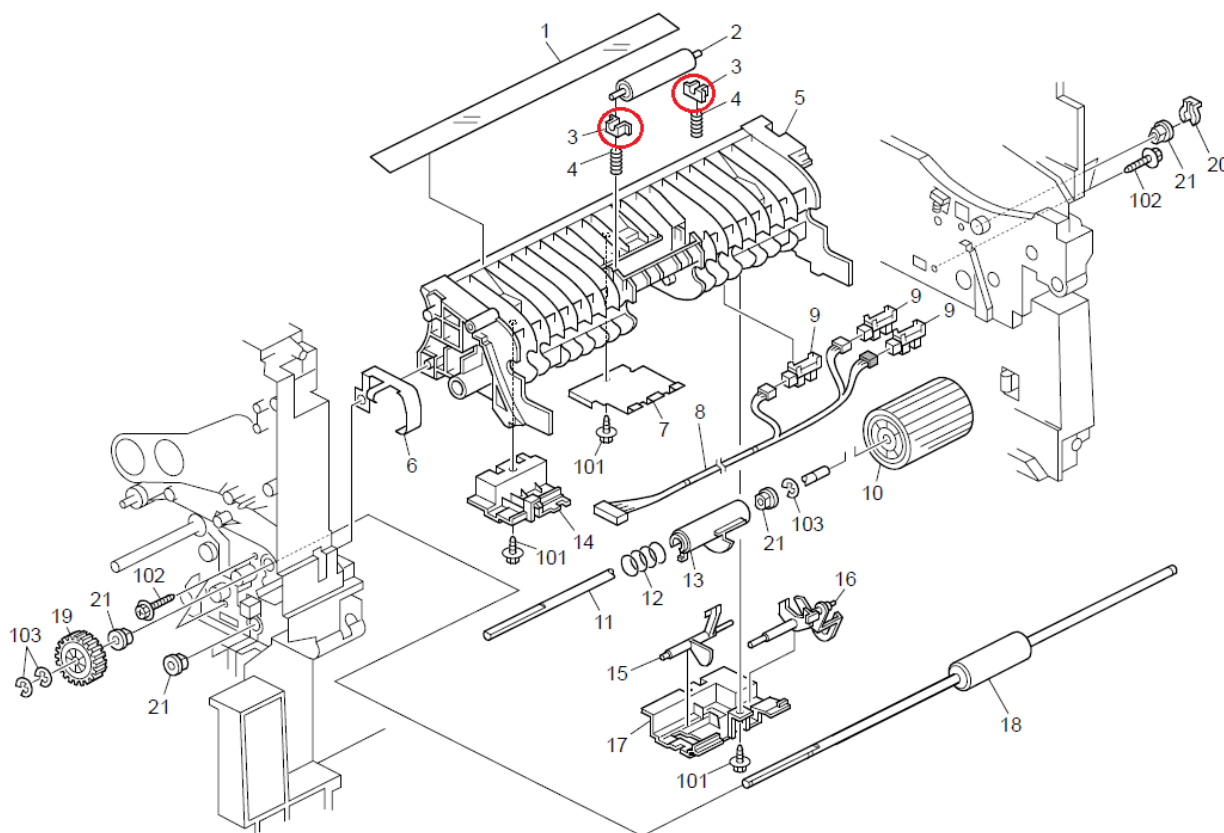
**Reason: Parts registration mistake by operator**



Model: SH-P1/MF1		Date: 28-Oct-14	No.: RM052075
Subject: Parts Catalog correction		Prepared by: Takuma. Sakakibara	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Parts Catalog correction (M020/M021/M052/M053/M054):

Wrong Description	Correct Description	Wrong PN	Correct PN	Q'ty	Page	Index
Bushing – 8x12x7	<b>BUSHING - VERTICAL TRANSPORT</b>	AA082144	<b>AA080249</b>	2	M020/M021: 15 M052/M053/M054: 47	3



Model: Sh-MF1		Date: 5-Dec-14	No.: RM052081
Subject: HC Teflon Mylar: Paper stack at Teflon Mylar		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

This documents is for the Sh-MF1/P1 HC model.

## SYMPTOM

1. Paper stack at the Teflon Mylar.
2. No-feed jam

## POSSIBLE CAUSE

1. The shape of the Teflon Mylar is not appropriate.
2. The spring has become stretched as a result of the machine's operation

## SOLUTION

1. Change the HC Teflon Mylar.
- 2-1. Change the springs
- 2-2. Change the setting of "Paper thickness lever" and attach the cover decal.

## PART INFORMATION

1. 3 pieces set (for main tray) of the following : **M0529911**
  - Teflon Mylar: 1 piece
  - Tension springs: 2 pieces
  - Paper thickness cover decal: 1 sheet
2. 5 sheets set of cover decal: **M0529912**
3. 2 pieces set of tension springs: **M0529908**

## PROCEDURE

1. HC Teflon Mylar
- 2-1. Change the springs. (Refer to RTB: RM052082)
- 2-2. Set "Paper thickness lever" and attach the cover decal. (Refer to RTB: RM052082)

Model: Sh-MF1

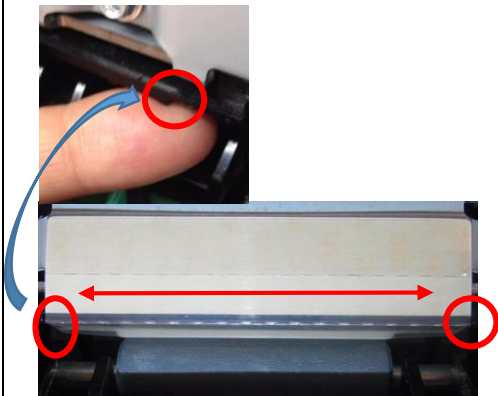
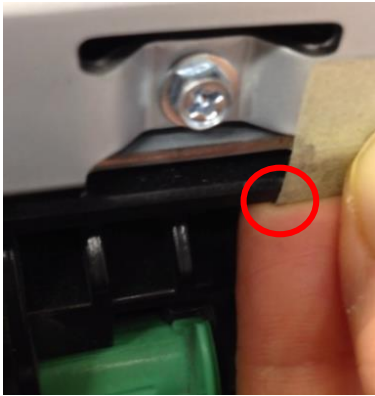
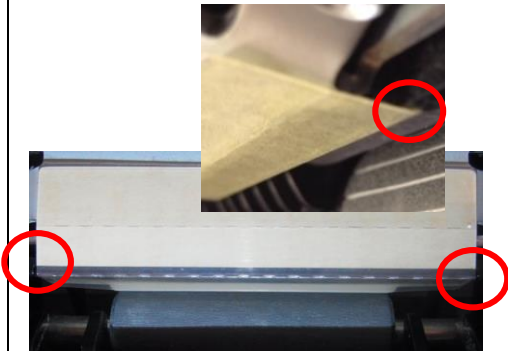

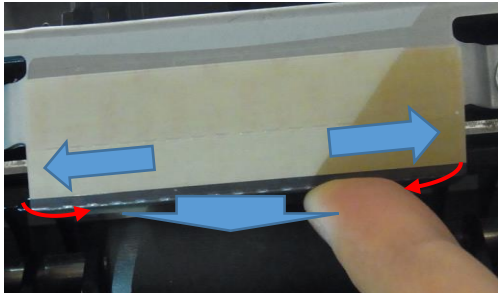

Date: 5-Dec-14

No.: RM052081

## ● Procedure: HC Teflon Mylar

### IMPORTANT NOTICE

The attachment quality of this Teflon Mylar can affect the occurrence of non-feed jams.

	OK	NG
1. Do not scratch the surface of the Teflon Mylar.	Use a finger when pressing the Mylar.	Scratch the Mylar using your nail.
2. The Teflon Mylar position. (right and left side)	Within the gap 	Mylar overlapping the gap 
3. The Teflon Mylar position. (forward and backward)	The Mylar angle/corner fits on the guide correctly. 	The Mylar angle/corner does not fit on the guide correctly. 
4. To attach it enough by pressing with a finger.	Press firmly. 	

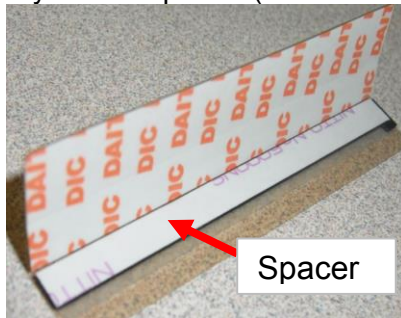
Model: Sh-MF1		Date: 5-Dec-14	No.: RM052081
5. Reattach the Mylar	Remove the spacer together and use the new Mylar.	The spacer is left on the machine.	

## In the field:

Do the following procedure.

## PROCEDURE

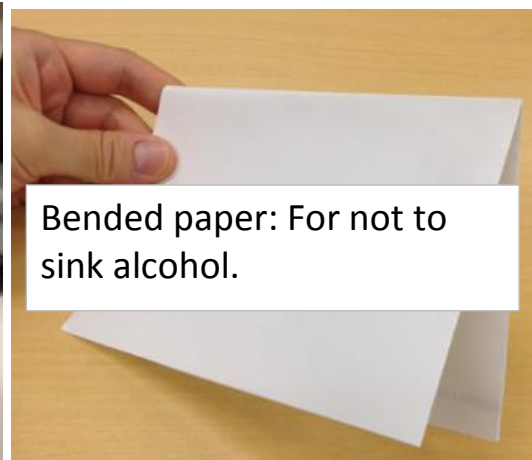
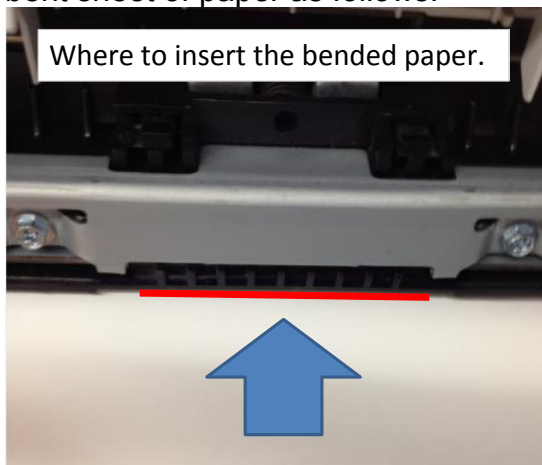
The Mylar with spacer. (Countermeasure part)



1. Make sure there are no obstacles on the surface, and clean this surface with an alcohol damp cloth. Make sure the cloth does not touch the rollers.



NOTE: To make sure the alcohol damp cloth does not touch the rollers, please insert a bent sheet of paper as follows.

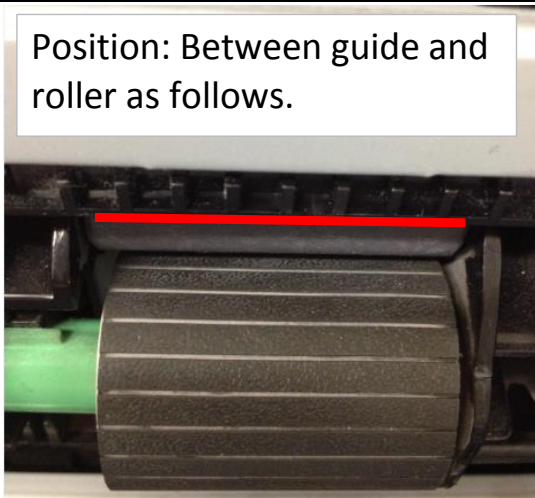


Model: Sh-MF1

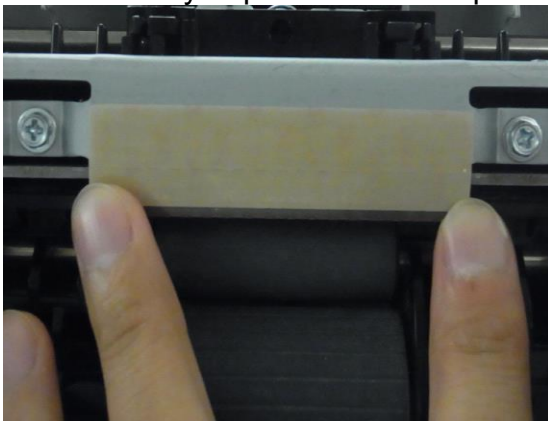
Date: 5-Dec-14

No.: RM052081

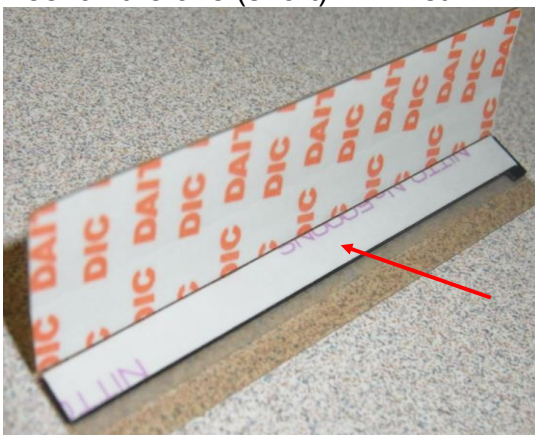
Position: Between guide and roller as follows.



2. Check the Mylar position without peeling off the film of double-sided tape.



3. Peel off the one (short) film first.



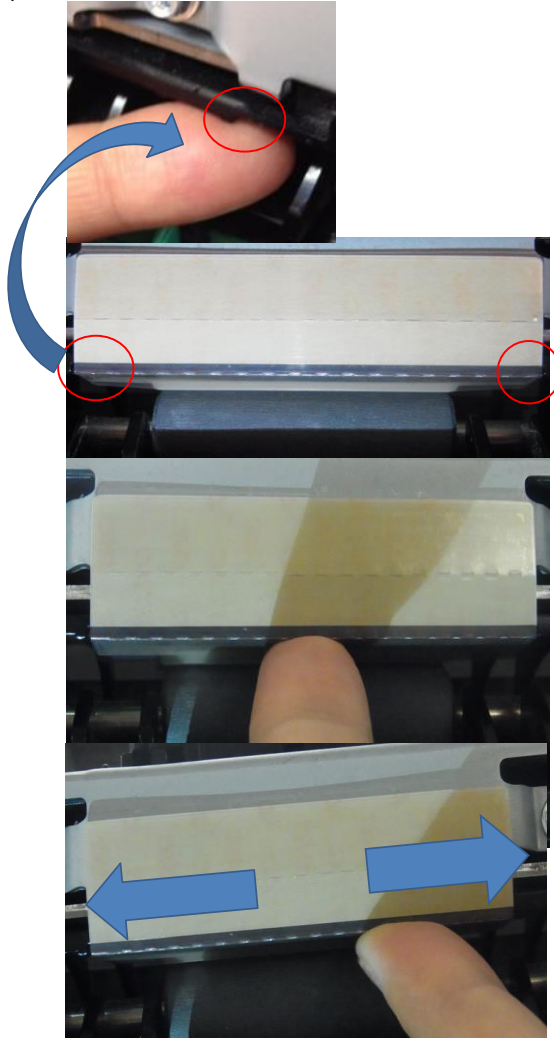


Model: Sh-MF1

Date: 5-Dec-14

No.: RM052081

4. Attach the Mylar within the gap (right and left) and fit the angle/corners. Press the Mylar with a finger from the middle to the right and left sides gently.  
(**IMPORTANT:** DO NOT FORGET THIS STEP. DO NOT SCRATCH WITH YOUR NAIL)



5. Peel off the film. (wide one)

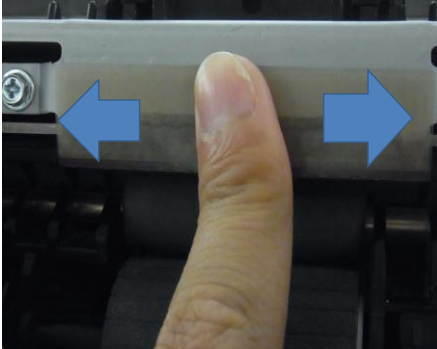


Model: Sh-MF1

Date: 5-Dec-14

No.: RM052081

6. Press the cushion with your finger gently from middle to right and left side.

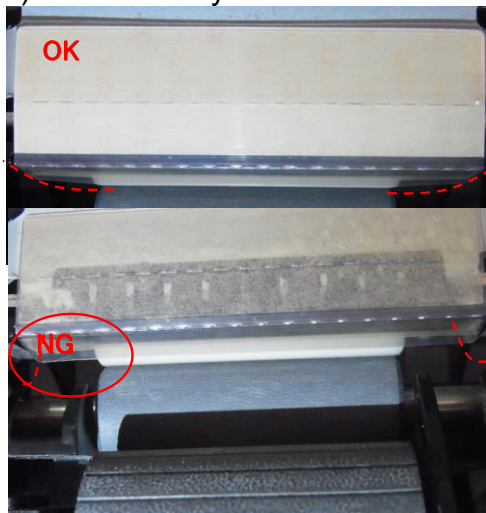


7. Confirmation process.

1) The Mylar angle/corner.

2) The Mylar position. (There should not be a gap more than 0.5mm)

1) Press the Mylar as follows. The Mylar angle is important, as shown.



2) Fit the Mylar and guide angle/corner. Make sure the Mylar and guide gap do not overlap.



Model: Sh-MF1	Date: 5-Dec-14	No.: RM052082
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Subject: No feed jam for all models (Main tray/Option bank)		Prepared by: T. Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service 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"/> Product Safety	<input type="checkbox"/> Other (      )	<input type="checkbox"/> Tier 2

This documents is for Sh-MF1/P1(Main tray/Option tray).

## SYMPTOM

No-feed jam

## POSSIBLE CAUSE

Spring has become stretched after use

## SOLUTION

Change the setting of "Paper thickness lever" and attach the cover decal first.  
If the problem is not solved, please change the springs.

## PROCEDURE

Set "Paper thickness lever" and attach the cover decal  
For your information, how to change the springs is included.

## PART NUMBER INFORMATION

5 sheets set of "Paper thickness lever cover decal": M0529912  
2 pieces set of tension spring : M0529908



Model: Sh-MF1

Date: 5-Dec-14

No.: RM052082

## ● Procedure:

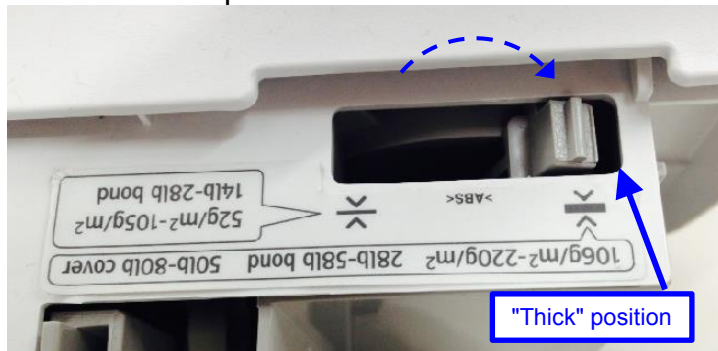
### Paper thickness lever setting and attaching the cover decal

#### In the field:

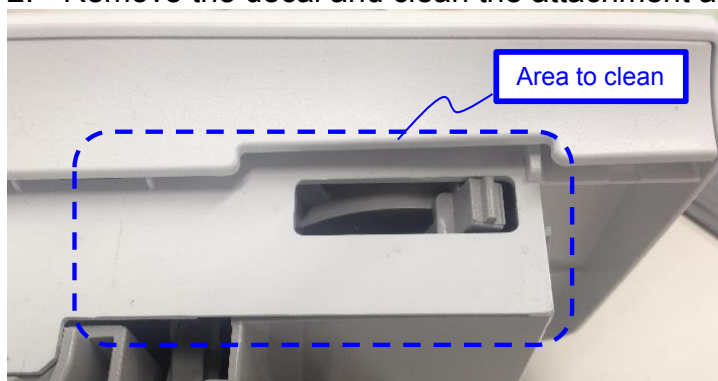
Do the following procedure.

#### PROCEDURE

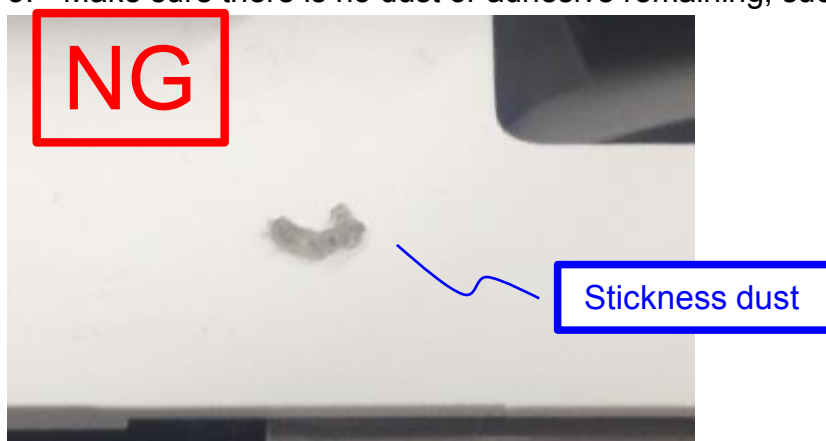
1. Set the "Paper thickness lever" to "Thick".



2. Remove the decal and clean the attachment area with alcohol.



3. Make sure there is no dust or adhesive remaining, such as that shown in the photo.



Model: Sh-MF1

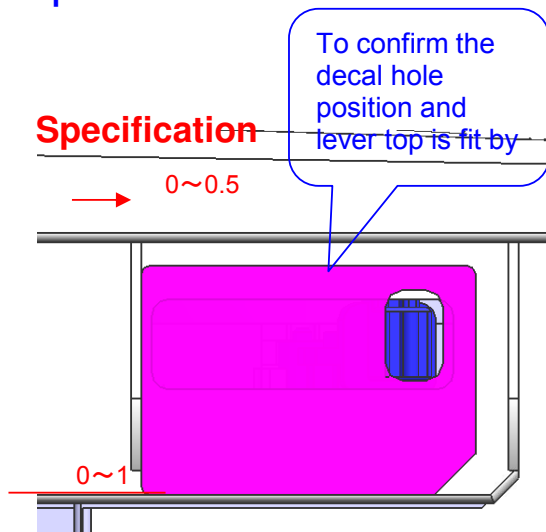
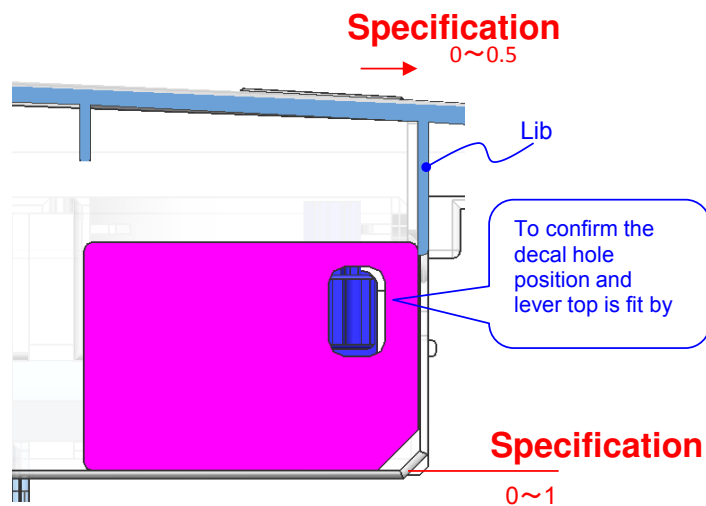
Date: 5-Dec-14

No.: RM052082

4. Attach the new decal, which has a hole that lines up with the lever top, as shown.

Main tray (same as P/MF)

Option bank



Main tray (same as P/MF)

Option bank



Model: Sh-MF1

Date: 5-Dec-14

No.: RM052082

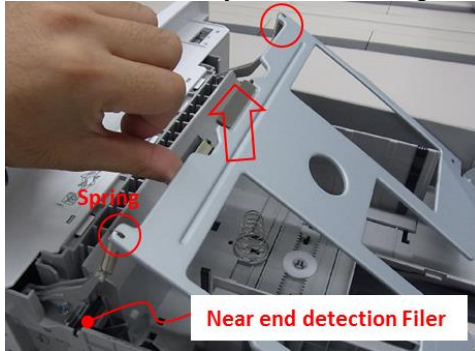
## ● Procedure: Changing the springs

In the field:

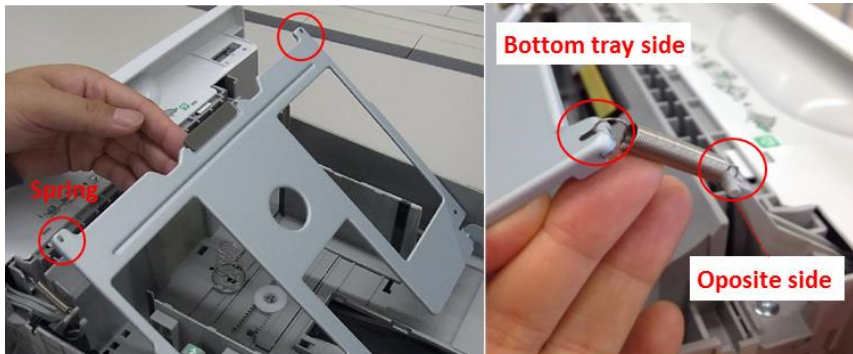
Do the following procedure.

### PROCEDURE

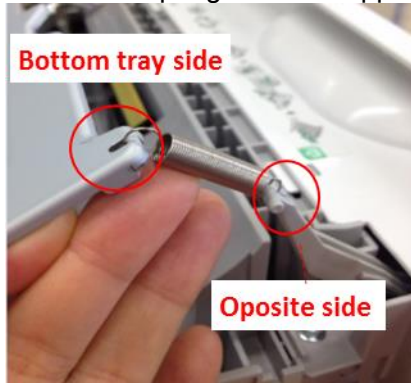
1. Lift the bottom tray while releasing the near end detection feeler.



2. Remove the spring (2 pieces) from the bottom tray side first and remove them from the opposite side also.



3. Install new springs on the "Opposite side" and "Bottom tray side".



Model: Sh-MF1

Date: 5-Dec-14

No.: RM052082

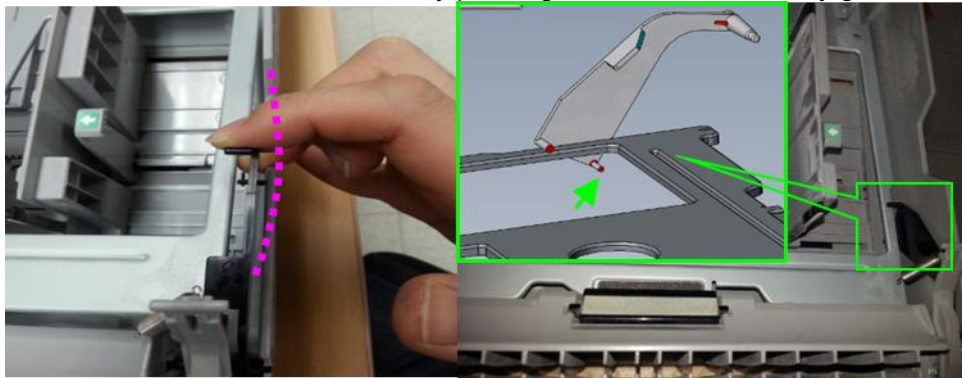
4. Set the near end detection feeler.



5. Lift the tray bottom plate to the max position.



6. Set the near end detection feeler by pushing the outside of the tray guide as follows.



Reissued: 29-Jan-15

Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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## RTB Reissue

The areas in ***bold italics*** have been added or revised.

Subject: Countermeasure to HC wristband model		Prepared by: J.Kitagawa	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input checked="" 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"/> Product Safety	<input type="checkbox"/> Other (      )	<input type="checkbox"/> Tier 2

## Note:

- This document is for the Sh-MF1/P1 HC wristband model.
- ***Wristband models are sold only in the U.S. market.***

## SYMPTOM

1. Cannot open the main paper tray.
2. Paper stuck at the Teflon Mylar.
3. Non-feed jam

## POSSIBLE CAUSE

1. The shape of the 3-inch tray bottom plate is not optimal.
2. The shape of the Teflon Mylar is not optimal.
3. The spring lengthens over time as the machine is operated.

## SOLUTION

1. Replace the tray bottom plate.
2. Replace the HC Teflon Mylar.
3. Replace the spring (included in #1) and change the setting of the "Paper thickness lever".

## PART INFORMATION

1. 3inch tray bottom plate: **M0529907**  
*Note: P/N M0529907 is used on the wristband model only.*
2. A set of the following 3 parts (for main tray): **M0529911**
  - Teflon Mylar: 1 piece
  - Tension springs: 2 pieces
  - Paper thickness cover decal: 1 sheet
3. A set of 5 sheets of the cover decal: **M0529912**
4. A set of 2 tension springs: **M0529908**

## See the Procedures below:

1. 3 inch tray bottom plate
2. HC Teflon Mylar (Refer to RTB: RM052081)
3. Paper thickness lever setting and attaching cover decal (Refer to RTB: M052082)

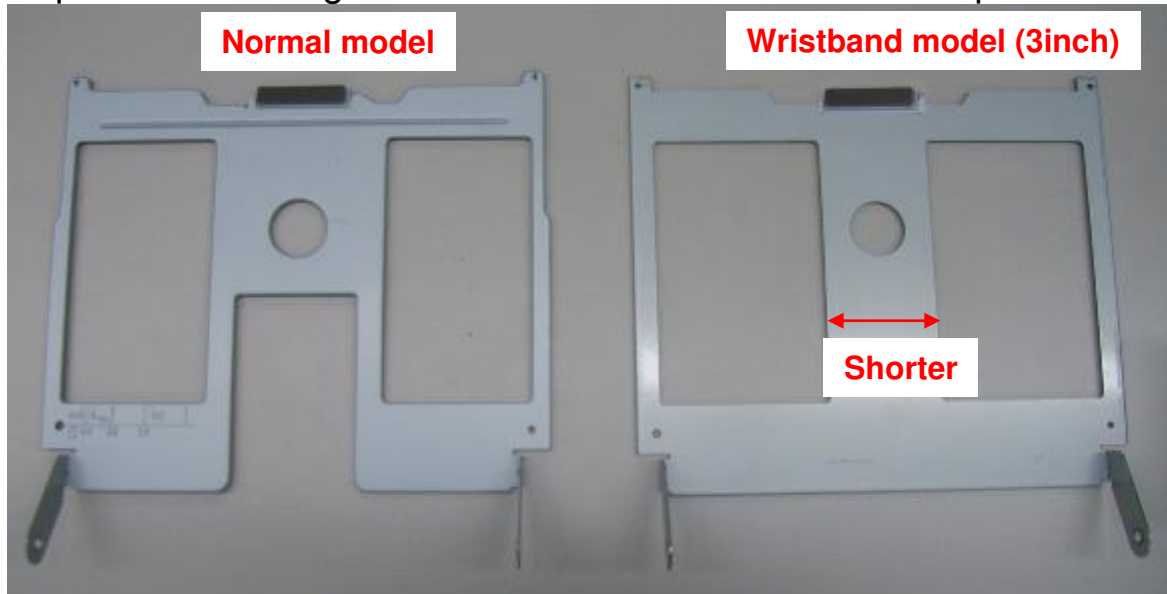
Reissued: 29-Jan-15

Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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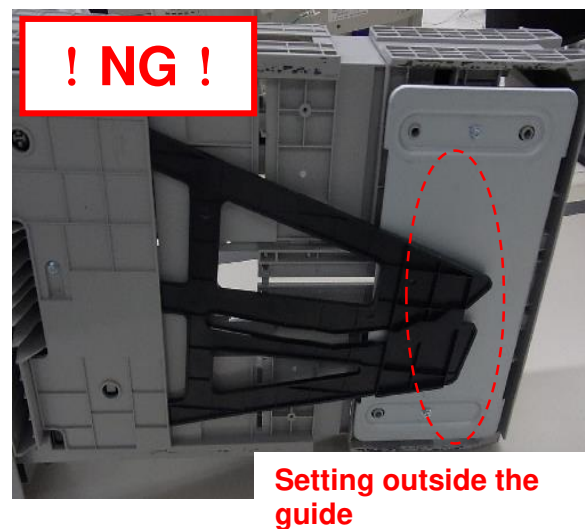
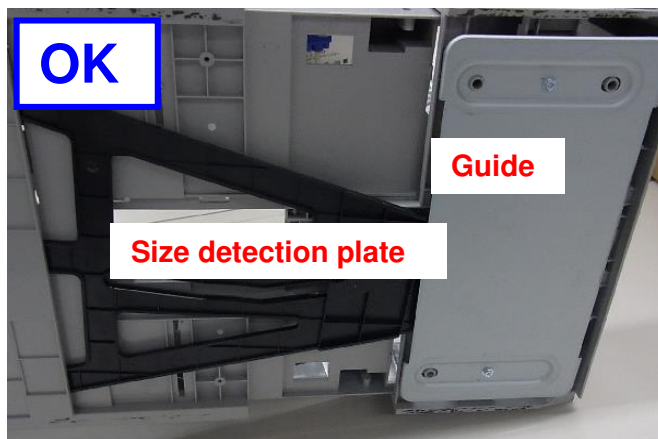
## ● Procedure: 3 inch tray bottom plate

### IMPORTANT NOTICE

1. Do not deform (put pressure on) the 3-inch tray bottom plate. This bottom plate is more fragile than on other models due to its shape.



2. Set the "size detection plate" correctly.





**Reissued: 29-Jan-15**

Model: Sh-MF1

Date: 5-Dec-14

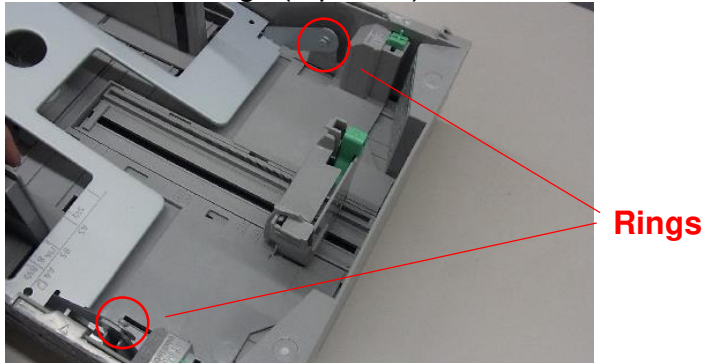
No.: RM052083a

**In the field:**

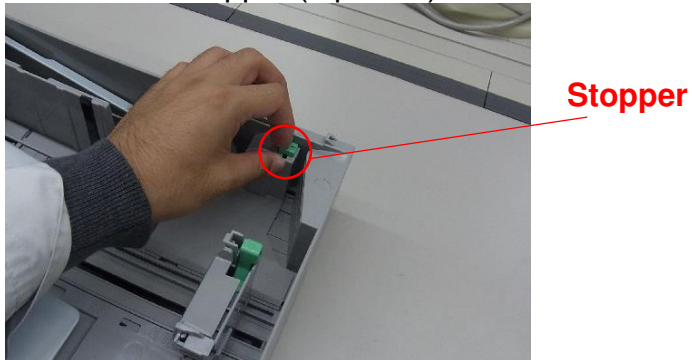
Do the following procedure.

**PROCEDURE**

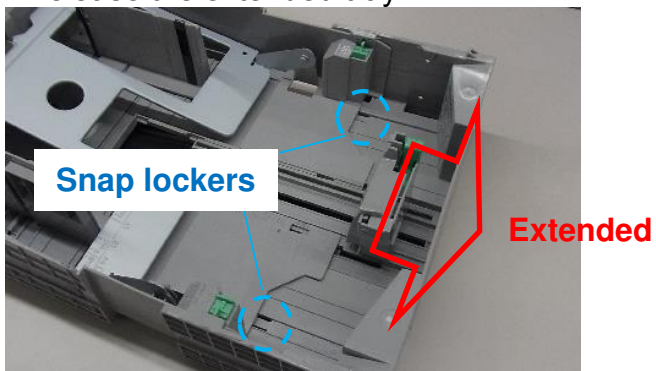
1. Remove the rings (2 pieces).



2. Unlock the stopper (2 places)



3. Release the extended tray.



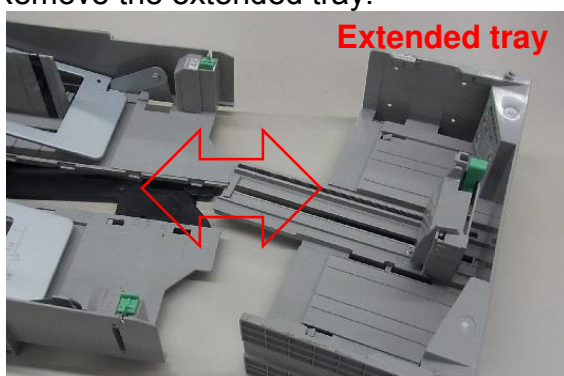
Reissued: 29-Jan-15

Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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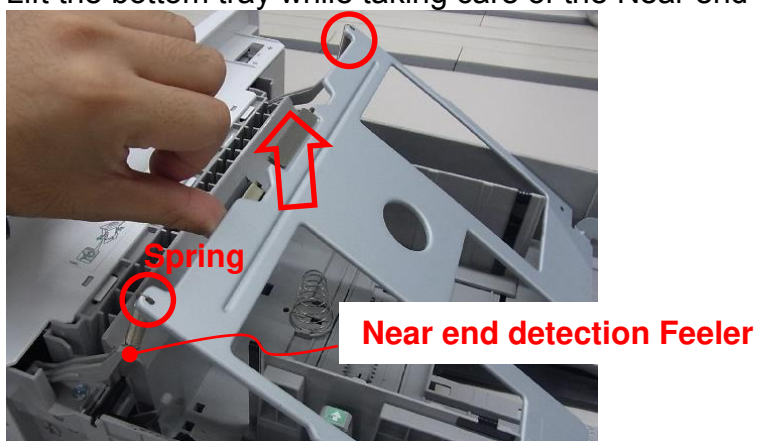
- Release the snap lockers by pushing. **Do not push too much.**



Remove the extended tray.



- Lift the bottom tray while taking care of the Near end detection Feeler and Spring.

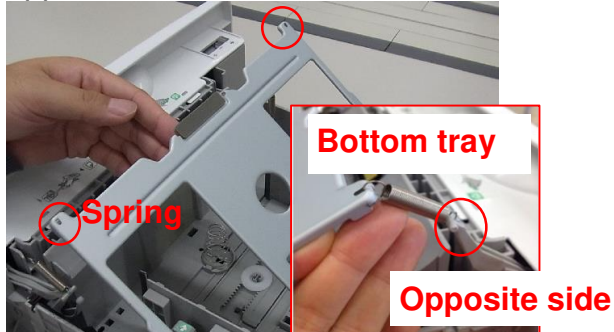




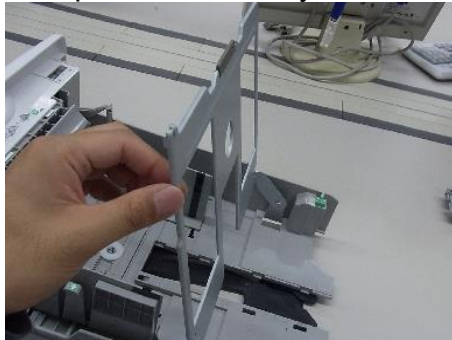
Reissued: 29-Jan-15

Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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- Remove spring (2 pieces) from the bottom tray side first, and then remove them from opposite side also.



- Tilt up the bottom tray as shown.



- DO NOT put pressure on the bottom tray!**

The 3 inch bottom tray is not as strong as those used on normal models. Push the outside guide outward, as shown in the photos, while **being careful not to put any pressure** on the bottom tray.

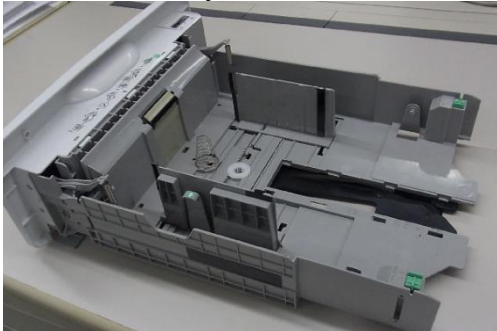
Do not press down on a small area/point too much, so as to avoid any breakage.



Reissued: 29-Jan-15

Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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9. Here is the tray without the bottom tray.

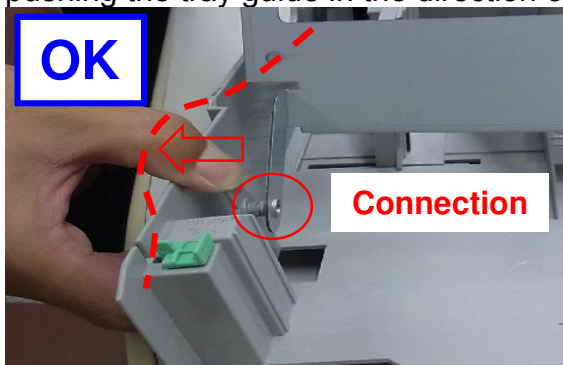


10. Connect the new bottom tray at one side.



11. **MOST IMPORTANT**

Connect the opposite side **without putting any pressure on the bottom tray** by pushing the tray guide in the direction of the red arrow.

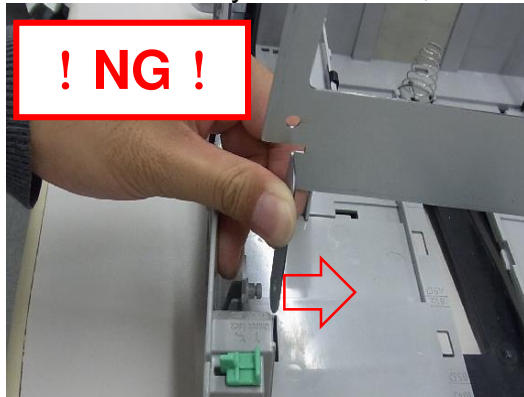


Reissued: 29-Jan-15

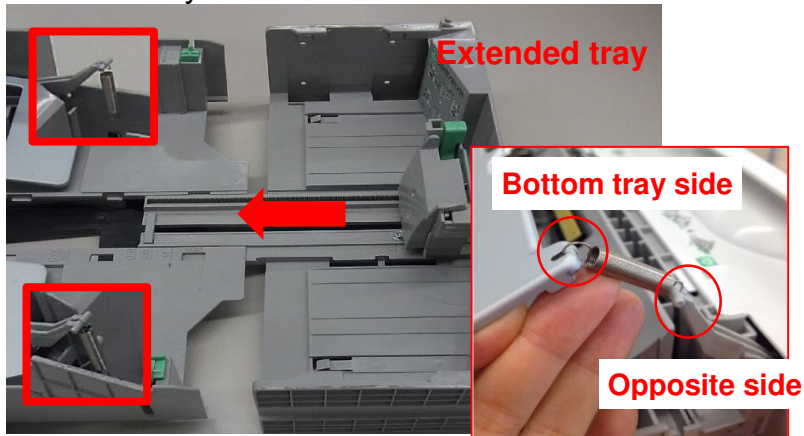
Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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## 12. **DO NOT** put any pressure on bottom tray.

If the bottom tray is deformed, it will affect the feeding quality and machine operation.



## 13. Attach springs (2 pieces) from the opposite side to the bottom tray side, and attach the extended tray.



## 14. Attach the near end detection feeler.



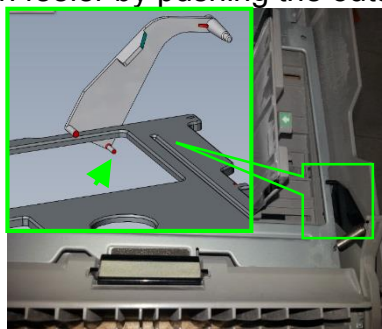
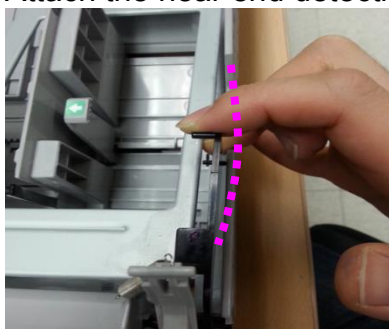
Reissued: 29-Jan-15

Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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15. Lift the tray bottom plate to its maximum position.



16. Attach the near end detection feeler by pushing the outside of the tray guide as shown.



17. Attach the springs as follows.



Reissued: 29-Jan-15

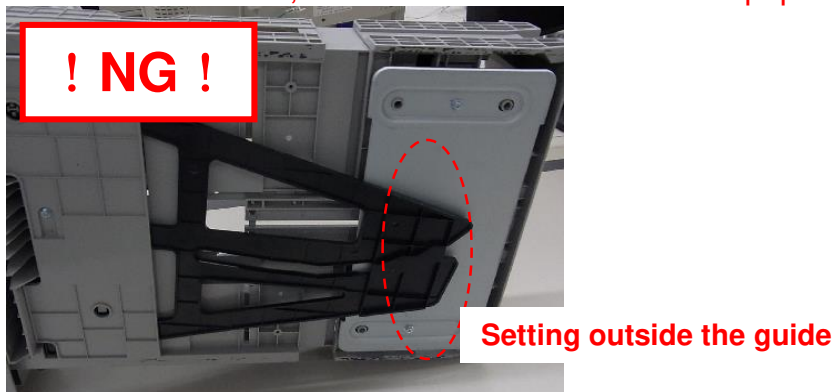
Model: Sh-MF1	Date: 5-Dec-14	No.: RM052083a
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18. Insert the size detection plate into the guide.



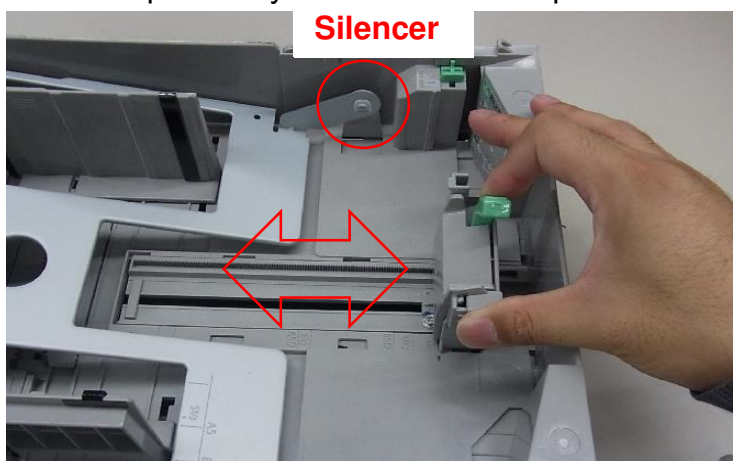
19. **Do not set the size detection plate outside the guide.**

Under this condition, the machine cannot detect the paper size, and a jam will occur.



20. Attach the silencer (2 pieces).

Check the end fence operation by pushing. If the end fence cannot move smoothly, there is a possibility the size detection plate is not set inside the guide.





Reissued: 1-Apr-15

Model: Model Sh-MF1	Date: 21-Nov-14	No.: RM052076a
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## RTB Reissue

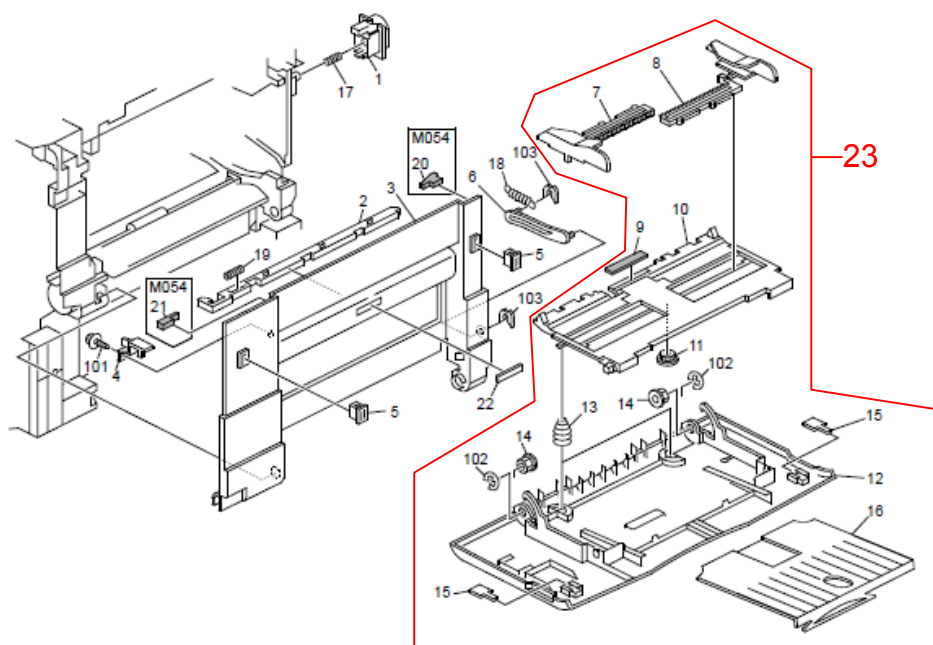
The items in ***bold italics*** have been added.

Subject: Part catalog correction		Prepared by: J.Kitagawa	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Change/Reason: NA/AA and EU parts were unified.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
	<b>M0521207</b>	MANUAL FEED UNIT:MF1		13	23	
M0521731	M0521732	COVER:LEFT:UPPER:NA/AA		11	11	
M0521736	M0521735	COVER:CTL:REAR LEFT:EU		11	3	
M0521742	M0521741	COVER:RIGHT:UPPER:EU:M052		11	16	
M0521746	M0521745	COVER:CTL:REAR LEFT:UPPER:EU		11	4	
M0521756	M0521755	COVER:SCANNER:RIGHT:EU		35	9	
M0521762	M0521761	COVER:SCANNER:LEFT:EU		35	14	
M0521766	M0521765	COVER:SCANNER:UPPER:EU		35	1	
M0521772	M0521771	COVER:SCANNER:REAR:EU		35	2	
M0521776	M0521775	GUIDE:SLIDE:EXIT:EU		11	9	
M0522757	M0522756	COVER:FRONT:EU		13	12	

2.Exterior 2 (M052/M053/M054)



**Reissued: 19-Mar-15**

Model: Sh-MF1	Date:21-Nov-14	No.: RM052077b
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**RTB Reissue**

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

Subject: Parts catalog correction "ADF cover link" is added		Prepared by: J. Kitagawa	
From: 3rd Tech Service Sect., MFP/P Tech Service 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"/> Product Safety	<input type="checkbox"/> Other (      )	<input type="checkbox"/> Tier 2

**Change:** A link guide (index #28) was added.

**Reason:** To improve the usability of the ADF by restricting how far the ADF cover can be opened.

**Note:** This ensures that the "Grip Cover: Paper Feed" (index #4) is not removed when the user removes jammed paper from the ADF.

Old part number	<b><i>New part number</i></b>	Description	Q'ty	<b><i>Int</i></b>	Page	Index	Note
M3644617	D7814617	GUIDE PLATE:COVER:PAPER FEED		<b><i>x/o</i></b>	21	5	
-	D7814651	LINK:GUIDE PLATE:OPEN AND CLOSE			21	28	
-	D1175916	STEPPED SCREW:M3X8:SECOND KIND			21	29	
	<b><i>D7814652</i></b>	<b><i>STEPPED SCREW:LINK:GUIDE PLATE:OPEN AND CLOSE</i></b>			<b><i>21</i></b>	<b><i>30</i></b>	<b><i>Set</i></b>
M3643416	D7813416	GUIDE PLATE:REVERSE		<b><i>x/o</i></b>	29	1	<b><i>Set</i></b>

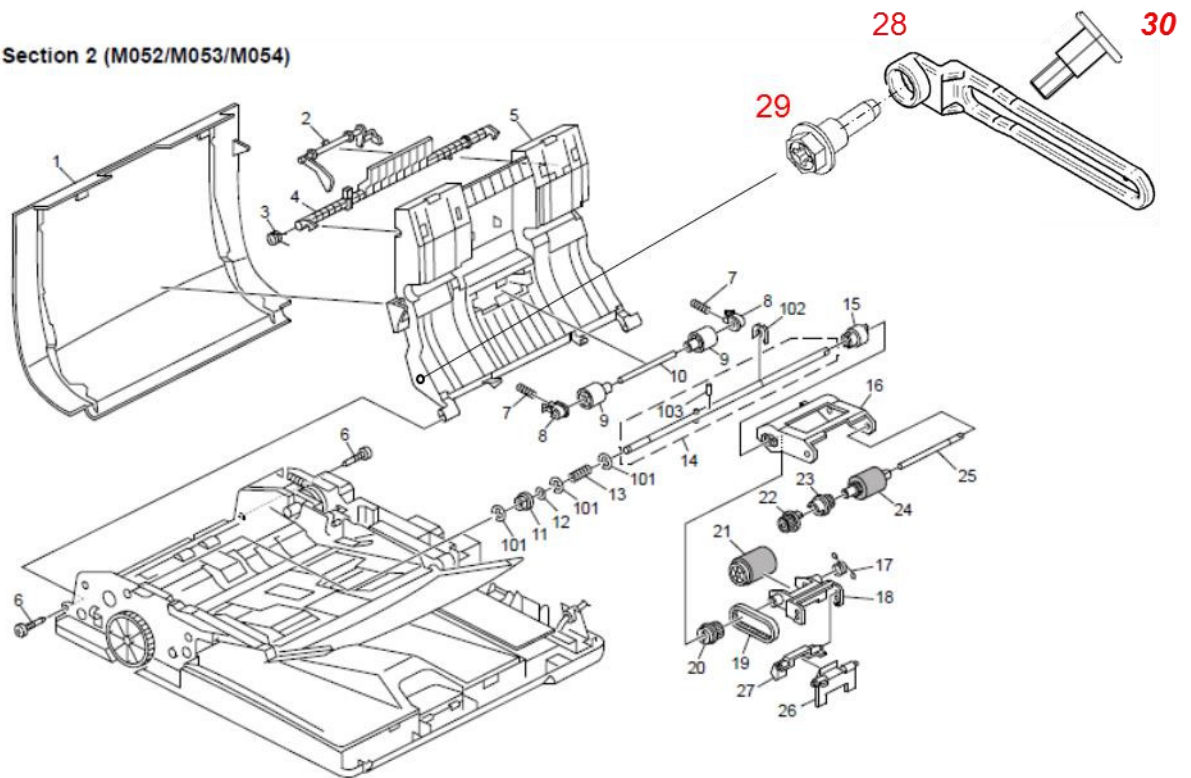
Reissued: 19-Mar-15

Model: Sh-MF1

Date:21-Nov-14

No.: RM052077b

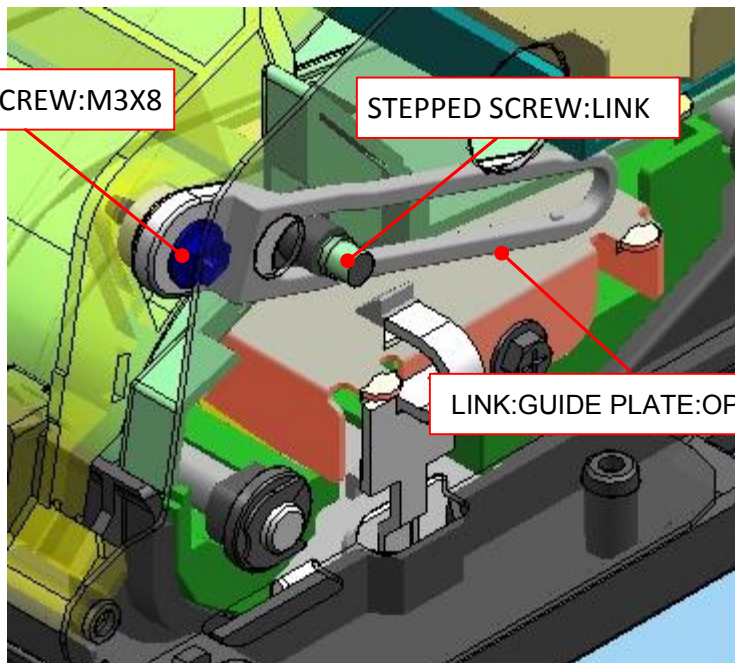
## 6.ADF Section 2 (M052/M053/M054)



STEPPED SCREW:M3X8

STEPPED SCREW:LINK

LINK:GUIDE PLATE:OPEN AND CLOSE





Model: Model Sh-MF1		Date: 21-Nov-14	No.: RM052078
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change/Reason:** The following part number was corrected.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
D4325134	D4325135	PCB:GWFCU3:EU:ASS'Y	1	103	3	

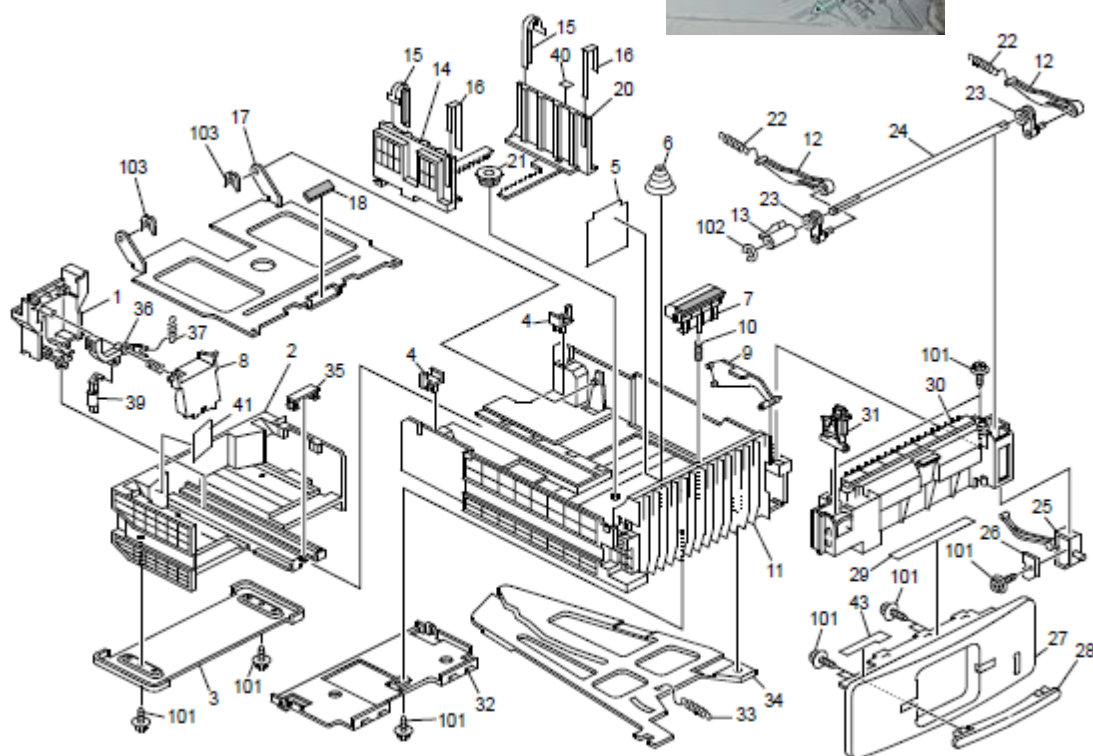
Model: Model Sh-MF1		Date: 21-Nov-14	No.: RM052079
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input checked="" type="checkbox"/> Part information	<input type="checkbox"/> Action 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"/> Product Safety	<input type="checkbox"/> Other (        )	<input type="checkbox"/> Tier 2

**Change:** An instructional decal was added.

**Reason:** To prompt the user to set the end fence in the correct position.

Old part number	New part number	Description	Q'ty	Page	Index	Note
-	<b>M0212608</b>	DECAL:OPERATE:END FENCE	1	46	46	

18.Paper Tray (M052/M053/M054)



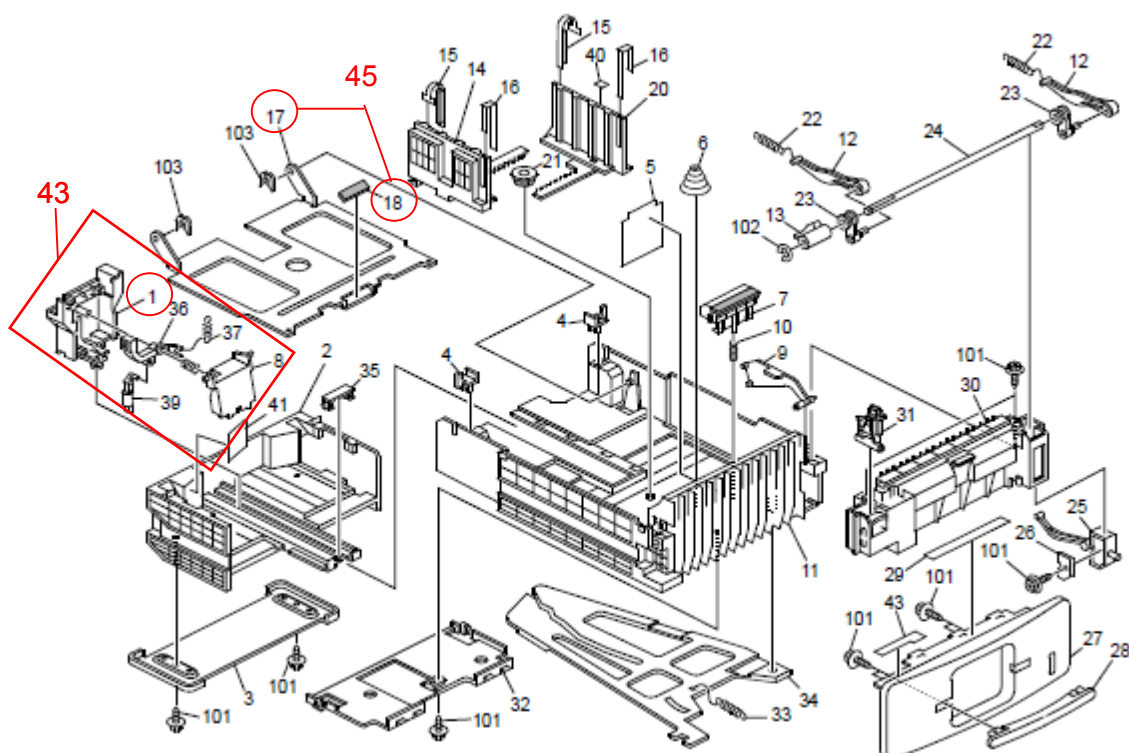
Model: Model Sh-MF1		Date: 21-Nov-14	No.: RM052080
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Change/Reason:

- 1) To increase the adhesive strength of the pad (#18).
- 2) To ensure that the end fence assembly (#43) stays properly attached to the paper size sensing tray (#34).

Old part number	New part number	Description	Q'ty	Page	Index	Note
M0212657	<b>M0212647</b>	PAD:BASE:SHINKA	1	45	17	1
M0522640	<b>M0522670</b>	TRAY BOTTOM PLATE:ADHESION	1	45	45	1
M0212565	<b>M0212563</b>	END FENCE:BASE	1	45	1	2
M0522560	<b>M0522580</b>	END FENCE:ASS'Y	1	45	43	2

## 18.Paper Tray (M052/M053/M054)



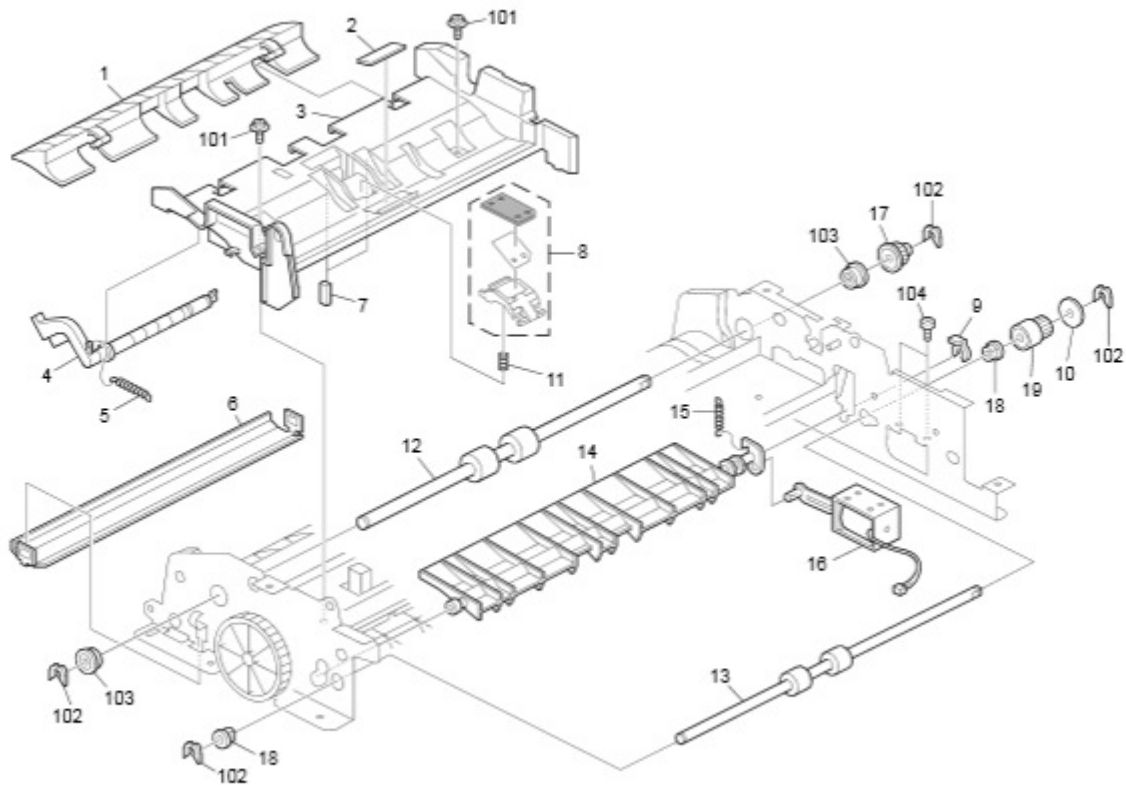
Model: Model Sh-MF1		Date: 18-Dec-14	No.: RM052084
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Change/Reason:

The following part number was changed.

Old part number	New part number	Description	Q'ty	Page	Index	Note
B7893716	<b>B7893726</b>	TENSION SPRING:GATE PAWL:REVERSE	1	27	15	-

## 9.ADF Section 5 (M052/M053/M054)



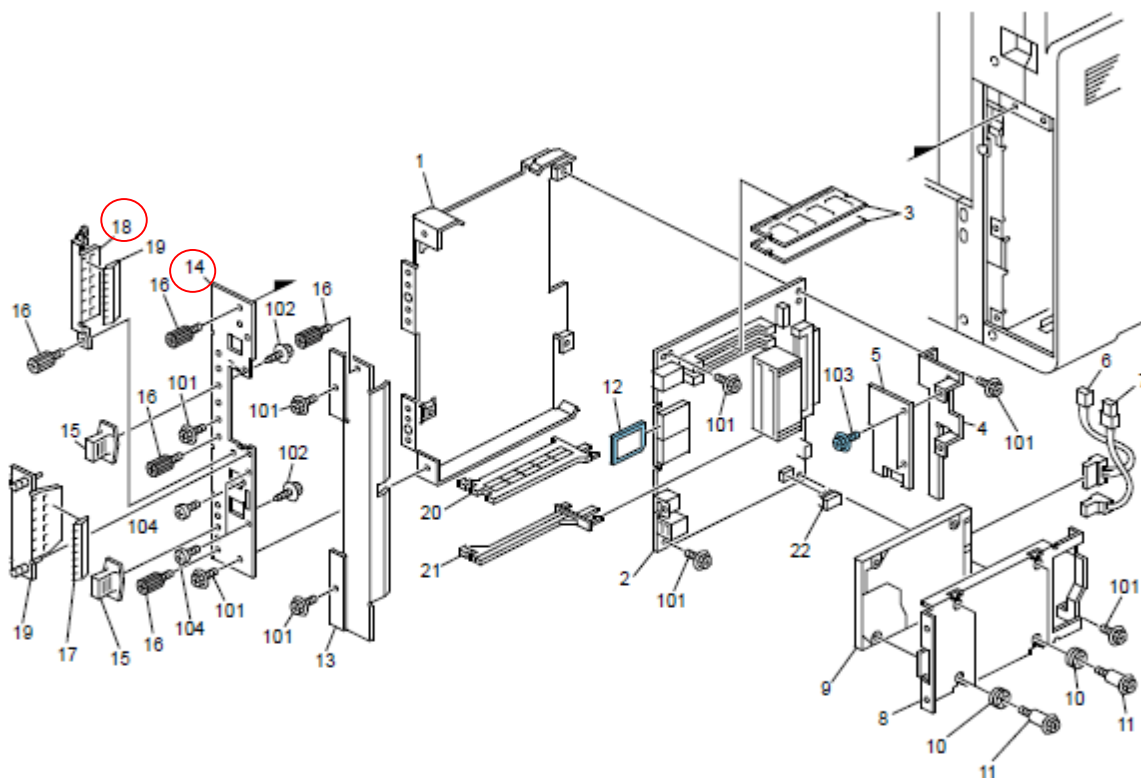
Model: Model Sh-MF1		Date: 21-Jan-15	No.: RM052085
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change:** The shapes of these parts (indexes #14 and 18) were changed as a set.

**Reason:** To prevent SD cards from falling through the gap between these parts.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
M0525115	<b>M0525117</b>	PANEL:CONTROL BOARD	1	99	14	
G1685118	<b>M0525118</b>	COVER:CARD	1	99	18	

#### 45.Controller Unit (M052/M053/M054)



Model: Model Sh-MF1		Date: 26-Jan-15	No.: RM052086
Subject: Part catalog correction		Prepared by: T.Hirai	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## Change:

- The "Clip" and "Staple" illustrations were moved from the side fence decal (Decal: Side Fence) to the original table decal (Decal: Original Table).
- The illustration showing the capacity of the original table was further emphasized on the side fence decal.

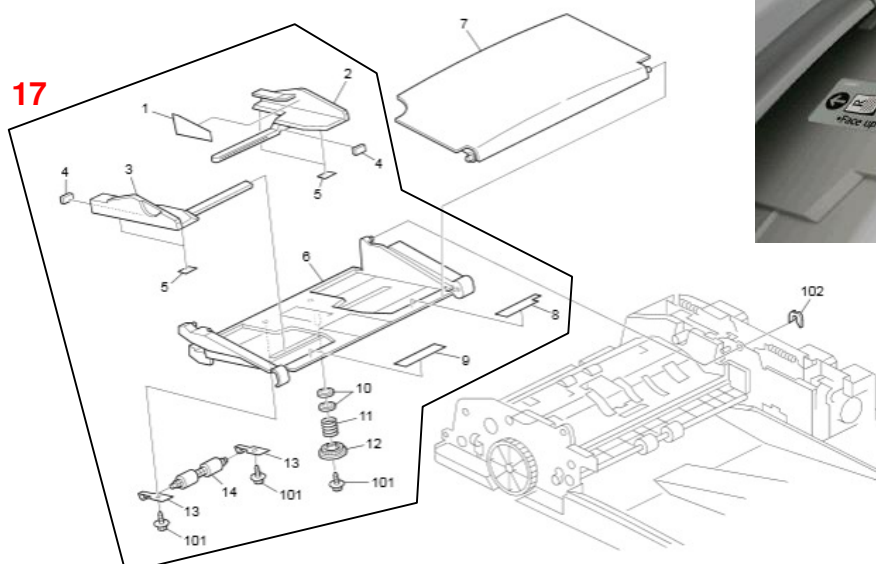
**Reason:** To prevent original jams caused by too many originals loaded on the original table.


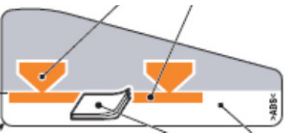




Old part number	New part number	Description	Q'ty	Page	Index	Note
	<b>D7816011</b>	DECAL:CAUTION:ORIGINAL:NA	1	23	15	
	<b>D7816021</b>	DECAL:ORIGINAL TABLE	1	23	16	
	<b>D7834730</b>	ORIGINAL TABLE:ASS'Y	1	23	17	*1
M3646041	<b>D7816041</b>	DECAL:SIDE FENCE	1	23	1	*2
M3644711	<b>D7834711</b>	ORIGINAL TABLE	1	23	6	

## IMPORTANT:

- When you attach P/N D7834730, make sure to attach it **together with D7816021 as a set**. This is because D7834730 does not include D7816021 or D7816011.
- When you attach P/N M3644741, make sure to attach it **together with D7816021 and D7816041 as a set**. This is because M3644741 does not include D7816041.

7.ADF Section 3 (M052/M053/M054)



Model: Model Sh-MF1		Date: 26-Jan-15	No.: RM052086
Before		After	
<b>M3646041A</b> 		<b>D7816041</b> 	
<b>M3646021 A</b> 		<b>D7816021</b> 	
<b>M3646011 A</b> <div> <b>Attention</b> <ul style="list-style-type: none"> <li>•Do not use thin originals</li> <li>•The following will dirty the exposure glass (the strip of glass) resulting in streaked copies and scanned images.</li> </ul>  <ul style="list-style-type: none"> <li>•Originals with notes attached</li> <li>•Originals pasted together</li> <li>•Originals with correction fluid or ink that hasn't completely dried</li> </ul> </div>		<b>D7816011</b> <div> <b>Attention</b> <ul style="list-style-type: none"> <li>•Do not use thin originals</li> <li>•The following will dirty the exposure glass (the strip of glass) resulting in streaked copies and scanned images.</li> </ul>  <ul style="list-style-type: none"> <li>•Originals with notes attached</li> <li>•Originals pasted together</li> <li>•Originals with correction fluid or ink that hasn't completely dried</li> </ul> </div>	



Model: Sh-MF1		Date: 6-Feb-15	No.: RM052088
Subject: Service manual revision		Prepared by: J.Kitagawa	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

The areas in ***bold italics*** have been corrected as follows.

Service Manuals, page 347

SP 8771 & SP 8781

8771	Dev Counter	*CTL	[0 to 99999999/ 0 / 1]
	<b><i>These SPs count the frequency of use (number of rotations of the development rollers) for the black development unit.</i></b>		
8771 1	Total		

8781	Toner_Bottle_Info.	*ENG	[0 to 99999999/ 0 / 1]
	<b><i>This SP displays a counter value which indicates the number of toner bottles that have been installed on this machine in the field.</i></b> <b><i>Note: The counter is incremented whenever the toner bottle is replaced using the bottle's ID chip.</i></b>		
8781 1	BK	The number of AIOs	



Model: Sh-MF1/P1		Date: 24-Mar-15	No.:RM052089
Subject: Summary of the no feed jam issue		Prepared by: J. Kitagawa	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

## SYMPTOM

Non-feed jams

## CAUSE

- Insufficient paper feed pressure
  - Standard model
  - HC model
  - Wristband model

**Note:** The Wristband model is only sold in the U.S. market.

- The shape of the Teflon Mylar is not optimal.
  - HC model
  - Wristband model
- The shape of the 3-inch tray bottom plate is not optimal.
  - Wristband model

## SOLUTION

Do the **PROCEDURE(S)** below for the model in question (Standard, HC, or Wristband).

Model: Sh-MF1/P1

Date: 24-Mar-15

No.:RM052089

## PROCEDURES

### Parts required:

	Decal x5 M0529912	Spring x2 M0529908	Mylar M0213025	Bottom Plate M0529907	Recommended
Standard Model	○	-**	-	-	End Fence Spacer
HC Model *	○	○	○	-	
Wristband Model	○	○	○	○	

\* 3 pcs. set of M0529911:

-Teflon Mylar: 1pc

-Tension springs: 2pcs

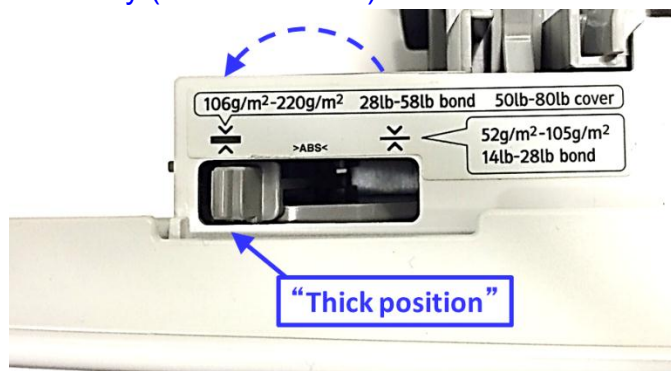
-Paper thickness cover decal: 1 sheet

\*\* Recommended when “thick paper” is used.

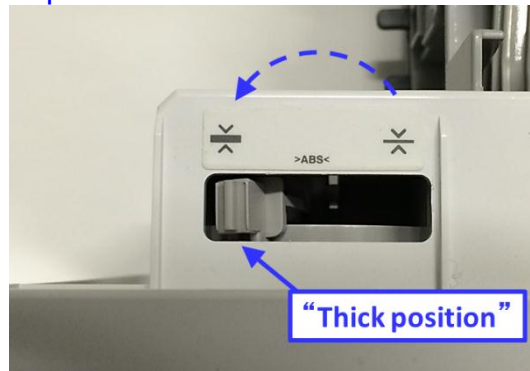
## Procedure for STANDARD MODEL

1. Set the paper thickness lever to the "Thick" (paper) position.

Main tray (same as P/MF)

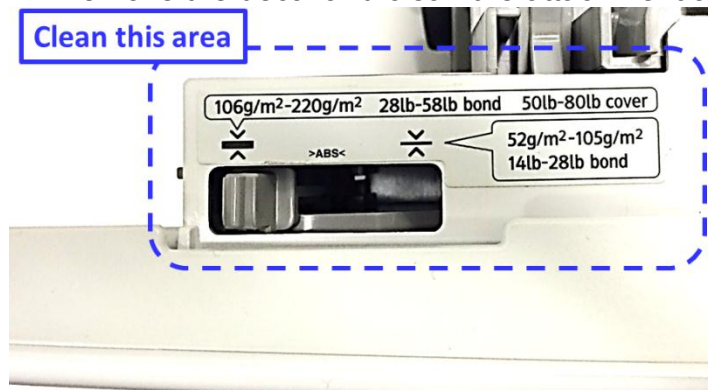


Option bank



**Important:** If the lever is stuck or hard to move, open the cover (See **Appendix**).

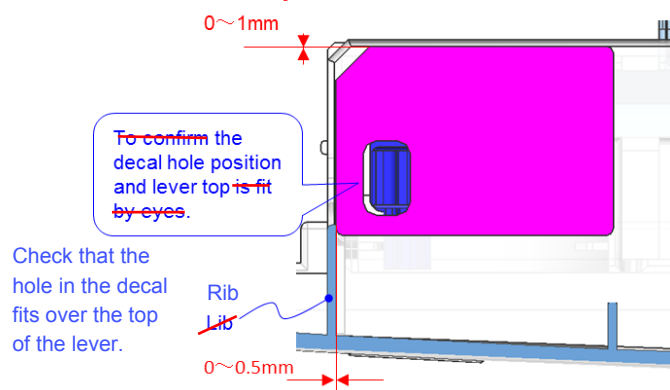
2. Remove the decal and clean the attachment area using alcohol.



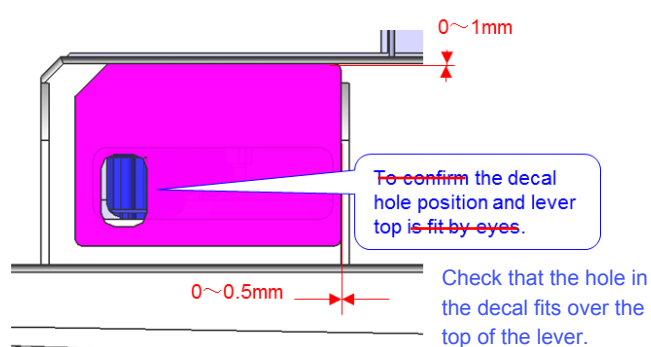
3. Attach the new decal, which has a hole that lines up with the lever top (as shown).

Mainframe tray (same as P/MF)

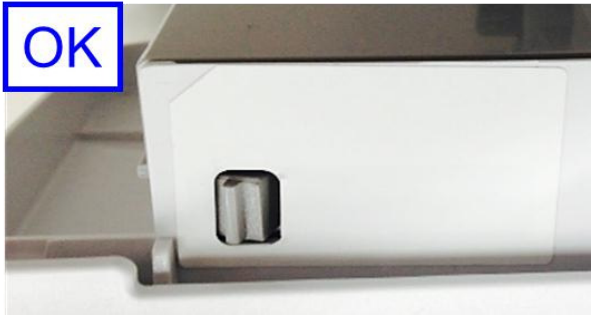
### Specification



Optional bank

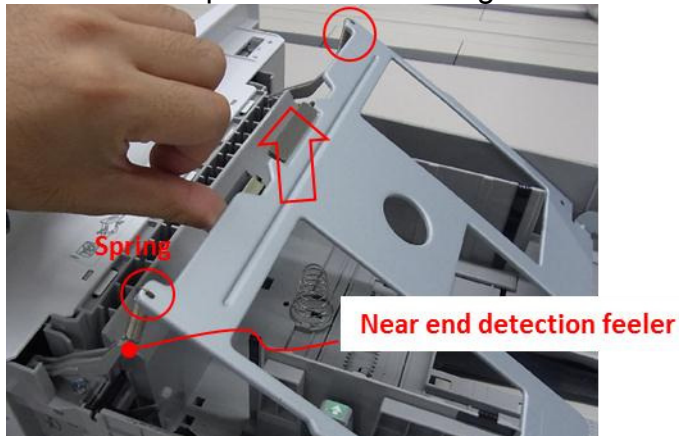


Model: Sh-MF1/P1	Date: 24-Mar-15	No.:RM052089
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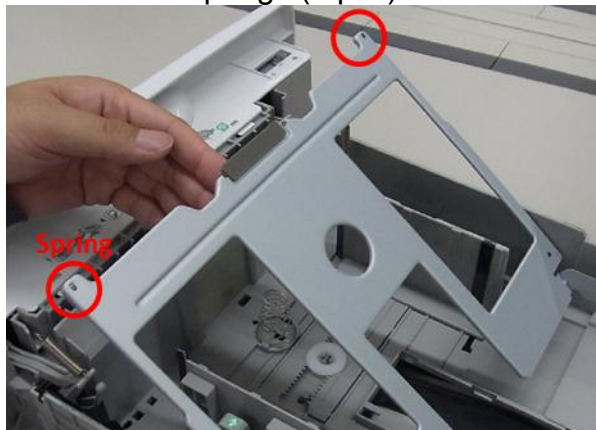


## Procedure for the HC MODEL

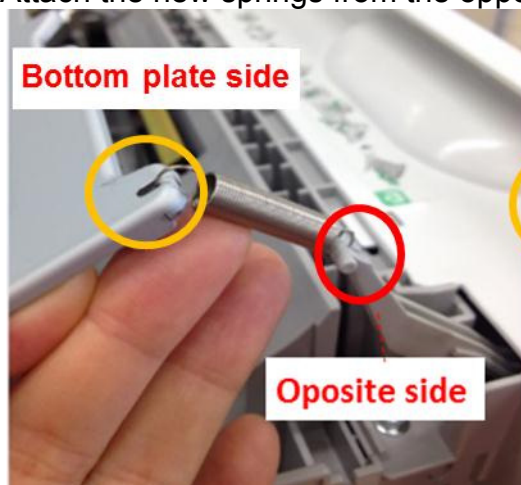
1. Change the position of the paper thickness lever and attach the cover decal, as described above in the Procedure for the STANDARD MODEL.
2. Lift the bottom plate while releasing the Near-End detection feeler.



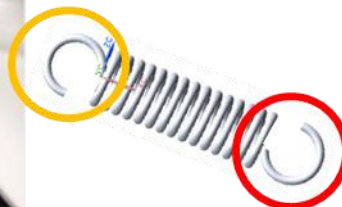
3. Remove the springs (2 pcs) from the bottom and top of the plate.



4. Attach the new springs from the opposite side to the bottom plate side.



**IMPORTANT:** Make sure that the direction of the hook is correct.



Model: Sh-MF1/P1

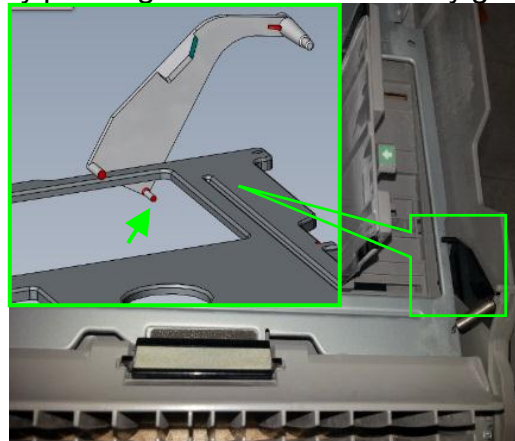
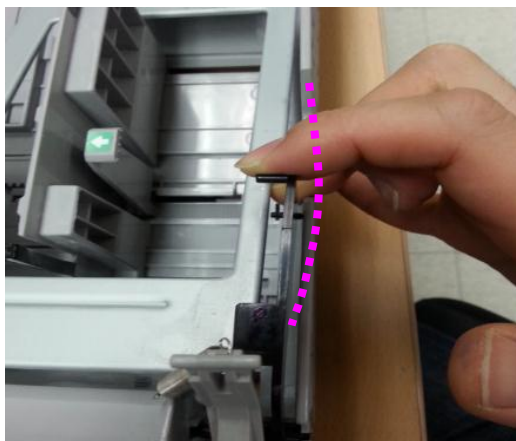
Date: 24-Mar-15

No.:RM052089

5. Lift the tray bottom plate as far as possible.



6. Attach the Near-end detection feelers by pushing the outside of the tray guide, as shown.



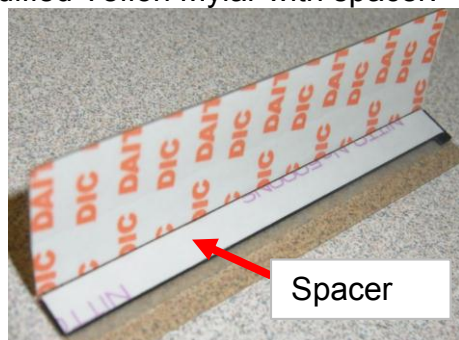


Model: Sh-MF1/P1

Date: 24-Mar-15

No.:RM052089

Modified Teflon Mylar with spacer:

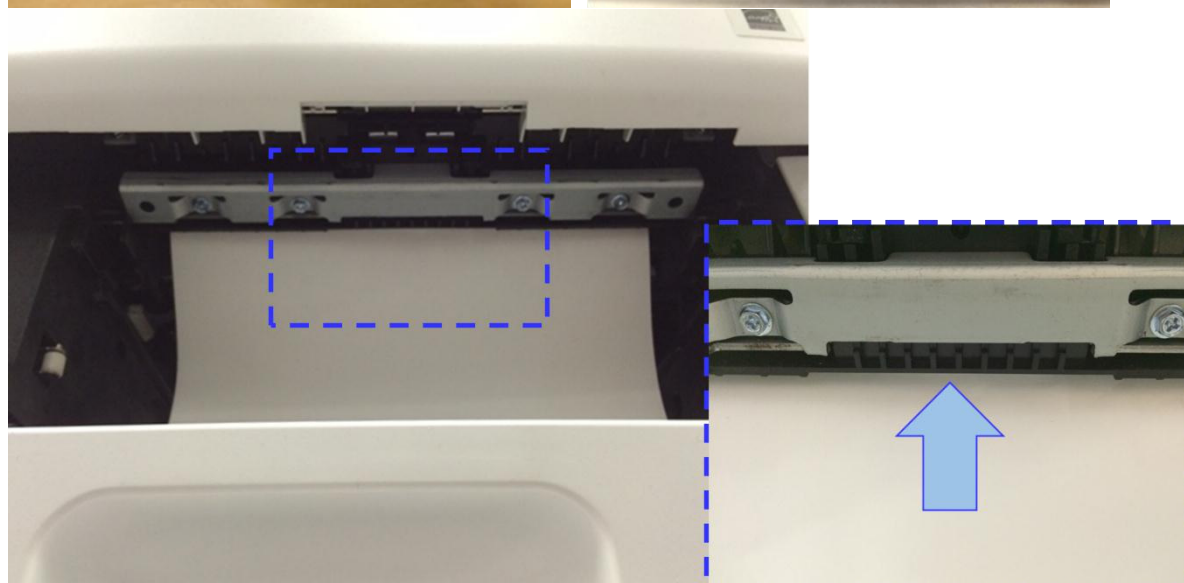
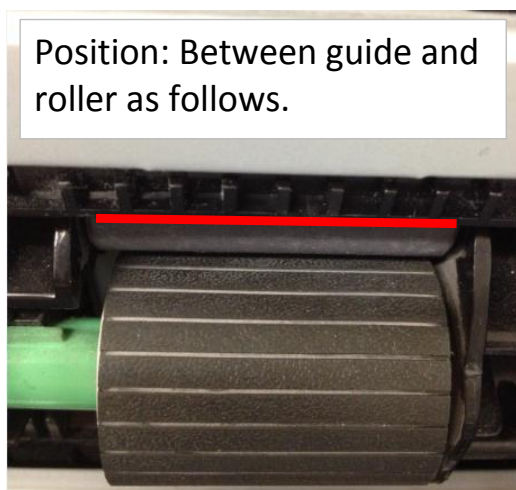
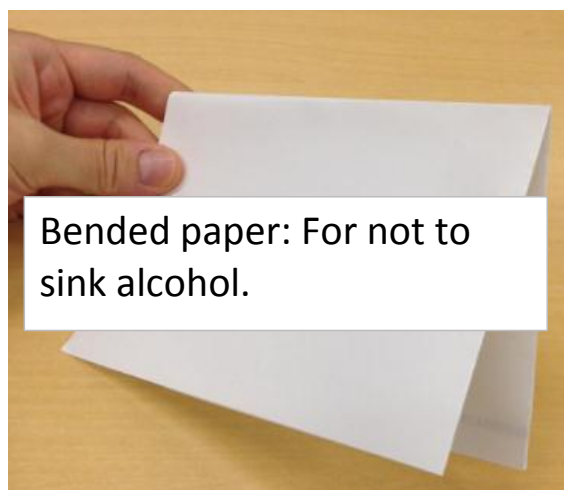


## Attaching the Teflon Mylar

7. Remove the old Mylar.

8. Insert a folded sheet of paper, as shown.

**Note:** This is to ensure that alcohol-damp cloths do not touch the rollers.



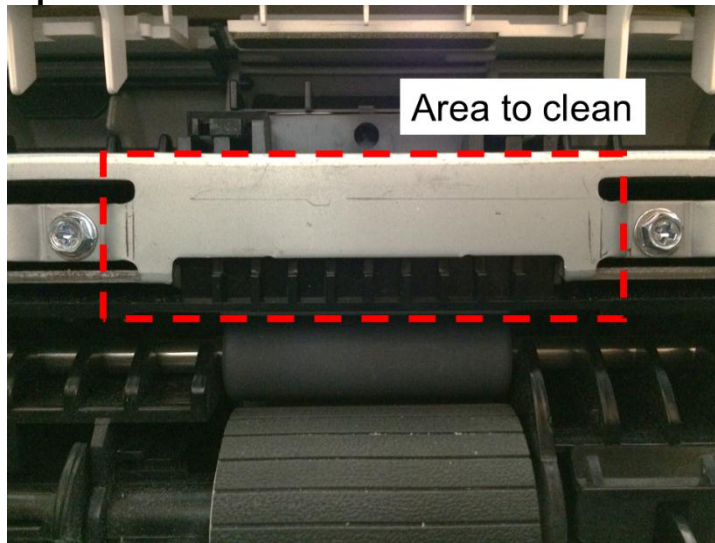
Model: Sh-MF1/P1

Date: 24-Mar-15

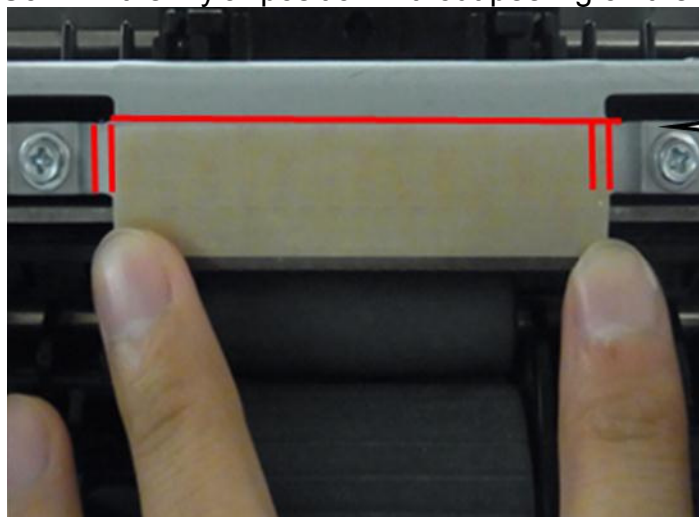
No.:RM052089

9. Confirm there are no obstacles on the surface, and clean the surface with an alcohol-damp cloth.

**Important:** Make sure the cloth does not touch the rollers.

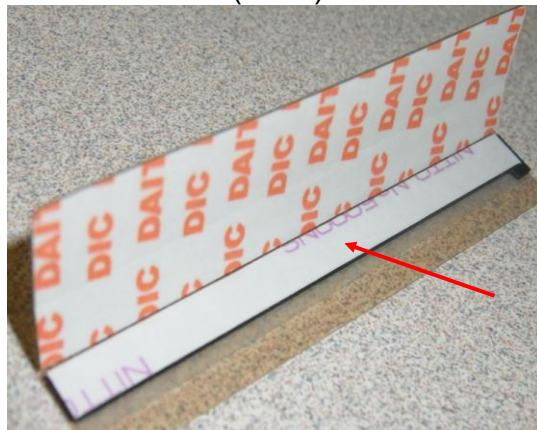


10. Confirm the Mylar position without peeling off the film of double-sided tape.



Mark the attaching area of the Mylar before sticking.

11. Peel off the one (short) film first.





Model: Sh-MF1/P1

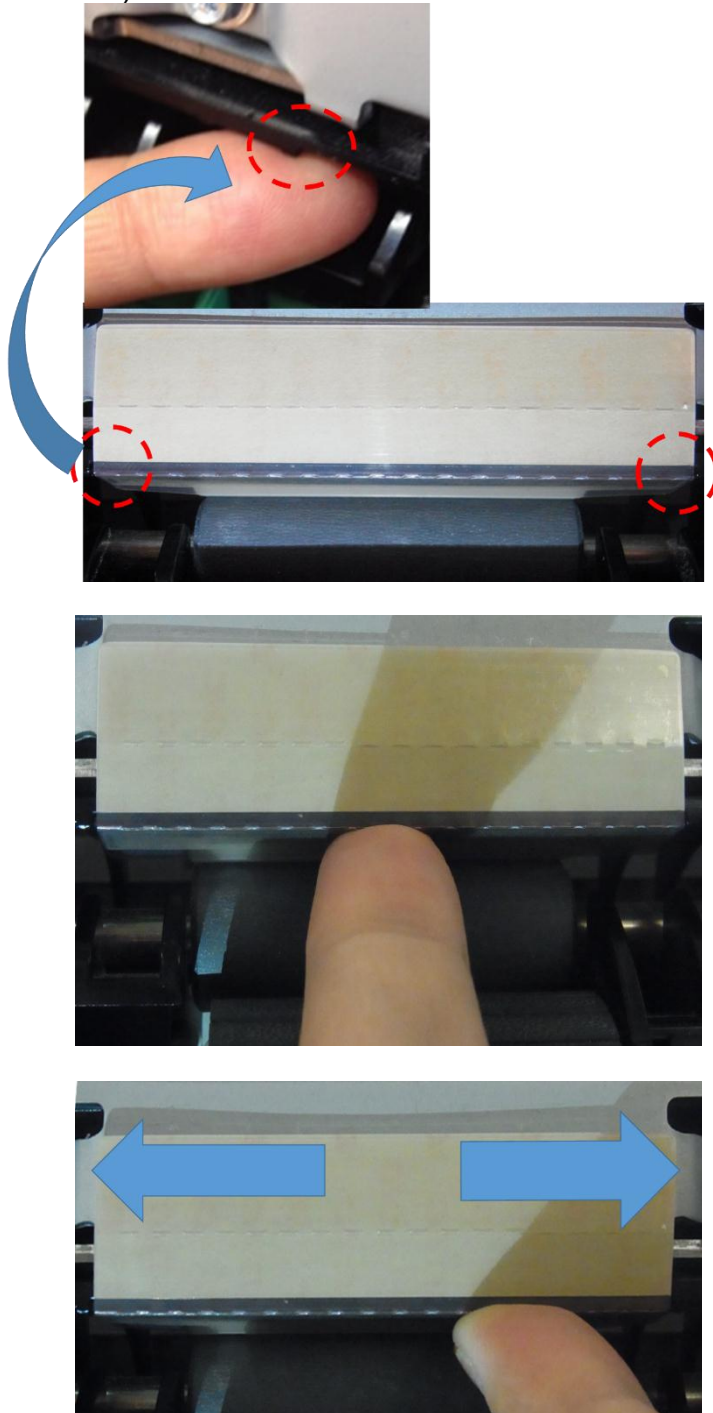
Date: 24-Mar-15

No.:RM052089

12. Attach the Mylar within the gap (right and left) and fit it to the corners.

13. Press the Mylar with a finger cushion from the middle to the right and left sides gently.

**IMPORTANT:** DO NOT FORGET THIS STEP. DO NOT SCRATCH THE MYLAR WITH YOUR NAIL)



Model: Sh-MF1/P1

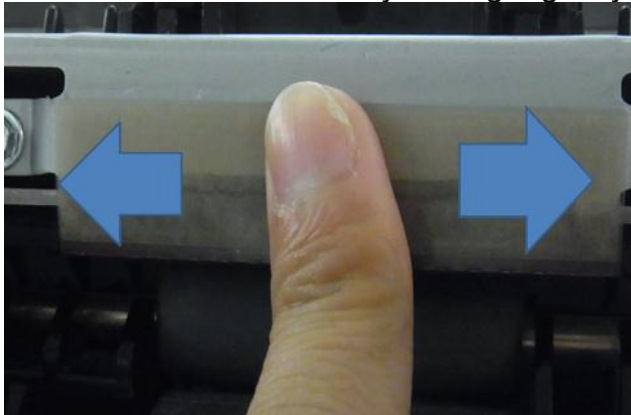
Date: 24-Mar-15

No.:RM052089

14. Peel off the long piece of protective film.



15. Press the cushion with your finger gently from the middle to the right and left sides.



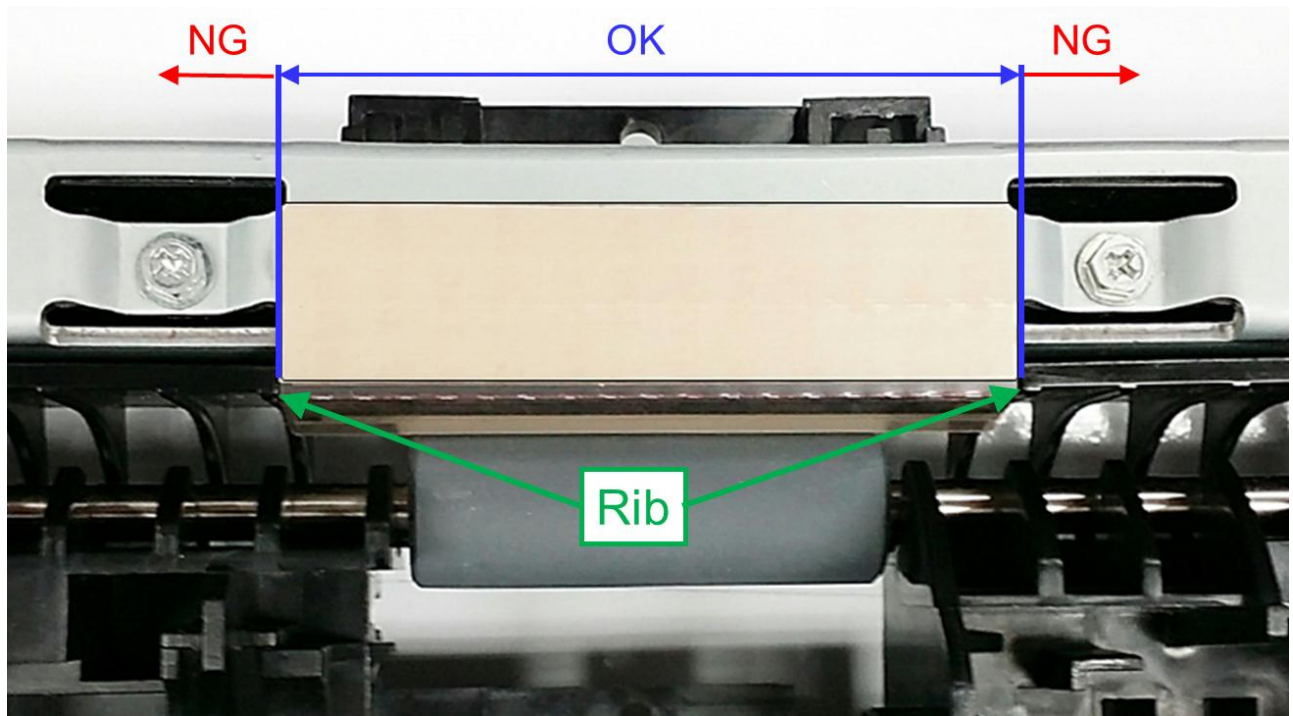
Model: Sh-MF1/P1

Date: 24-Mar-15

No.:RM052089

16. Make sure that the Mylar edges are inside the ribs.

**IMPORTANT:** Attach a NEW Mylar if you cannot attach the Mylar correctly.



17. Print out some sheets of paper and check if the symptom occurs.

Model: Sh-MF1/P1

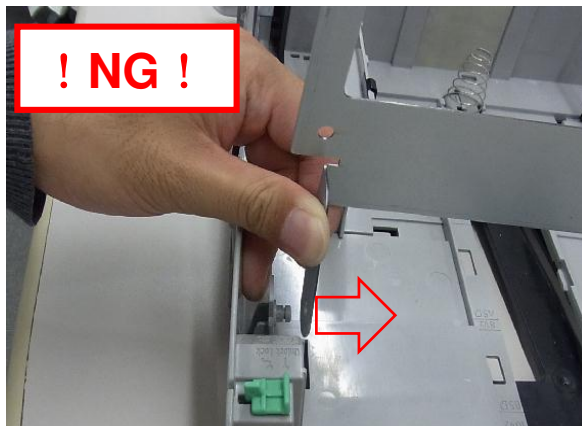
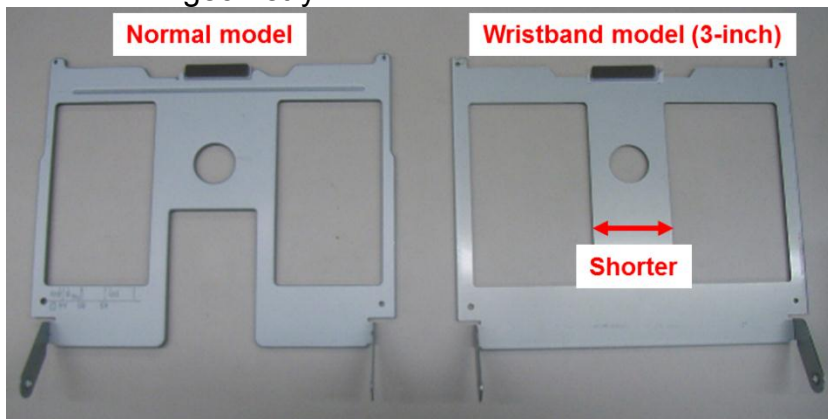
Date: 24-Mar-15

No.:RM052089

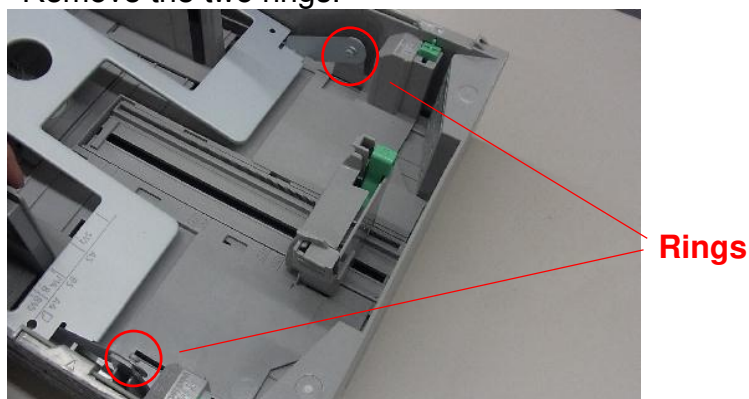
## Procedure for the WRISTBAND MODEL

1. Change the position of the paper thickness lever and attach the cover decal, as described above in the Procedure for the STANDARD MODEL.
2. Change the tension springs and Teflon Mylar as described above in the Procedure for the HC MODEL.

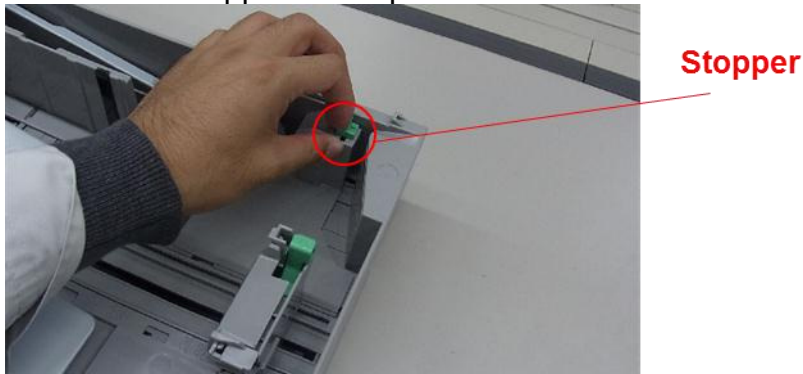
**IMPORTANT:** Do not put pressure on the 3-inch tray bottom plate. This bottom plate deforms more easily compared to those on other models, due to its geometry.



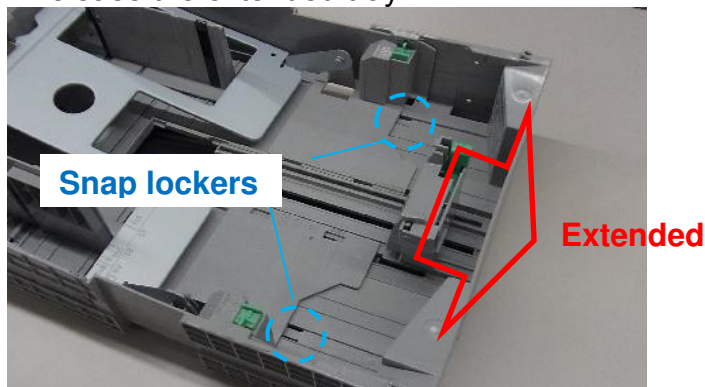
3. Remove the two rings.



4. Unlock the stopper in two places.



5. Release the extended tray.



6. Push and release the snap lockers.  
**Important:** Do not push with too much force.



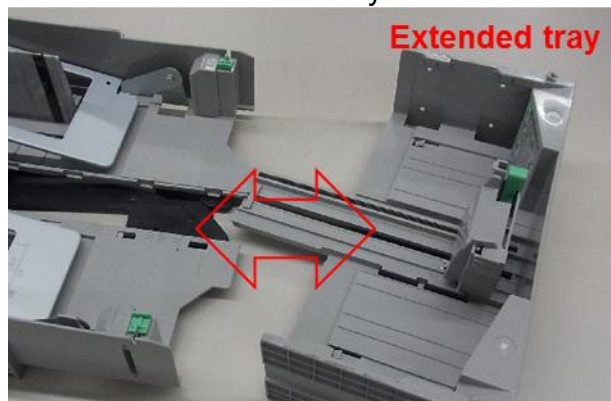


Model: Sh-MF1/P1

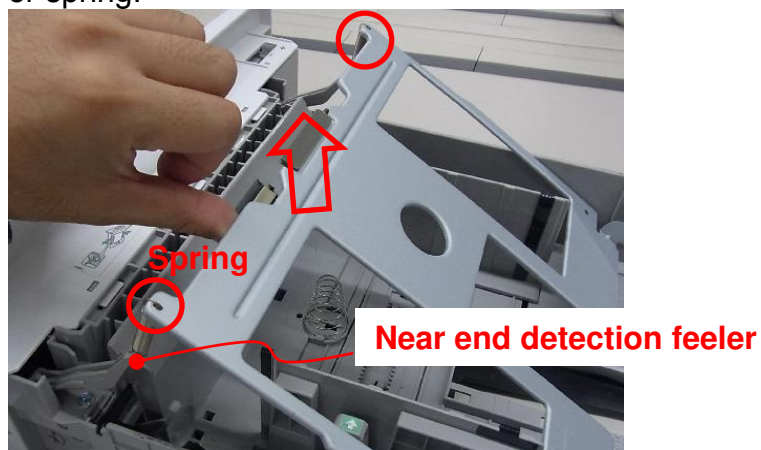
Date: 24-Mar-15

No.:RM052089

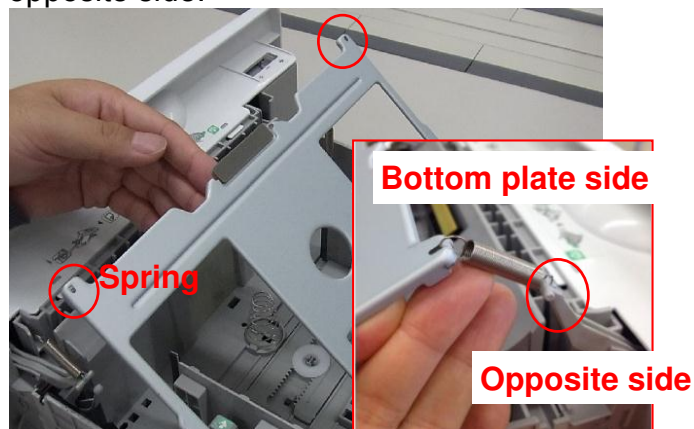
7. Remove the extended tray.



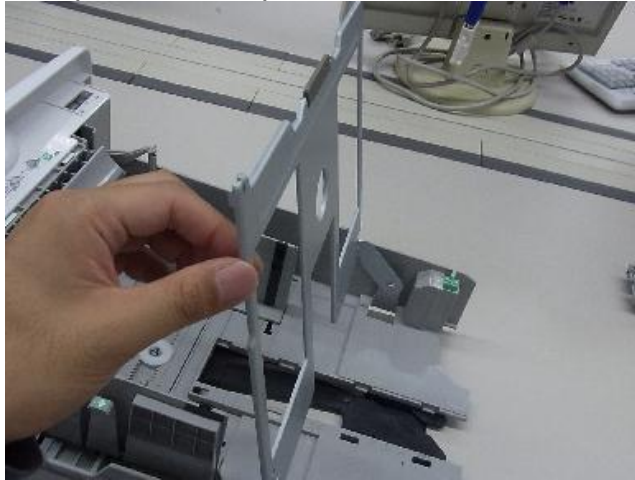
8. Lift the bottom plate, taking care not to catch the plate on the near-end detection feeler or spring.



9. Remove the two springs from the bottom plate side, and then remove them from opposite side.

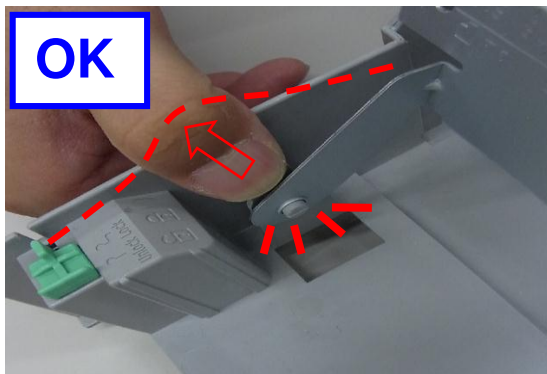


10. Tilt up the bottom plate as shown.

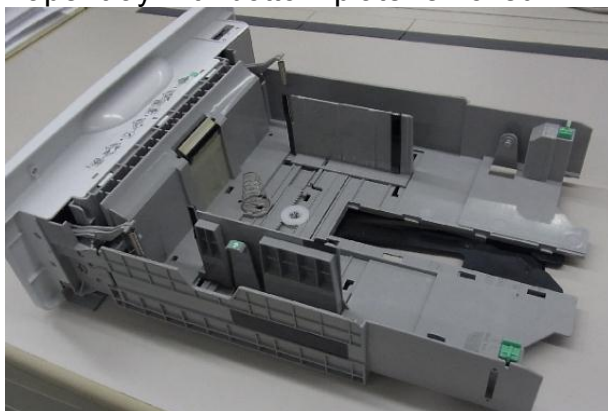


**IMPORTANT: DO NOT put pressure on the bottom plate.**

The 3-inch bottom plate is not as strong as those used on standard models, since the side fences can slide three inches. **Pull the outside guide outward**, as shown in the photos, while **being careful not to put any pressure** on the bottom plate. Do not press down on a small area/point too much, in order to avoid breakage.



Paper tray with bottom plate removed:

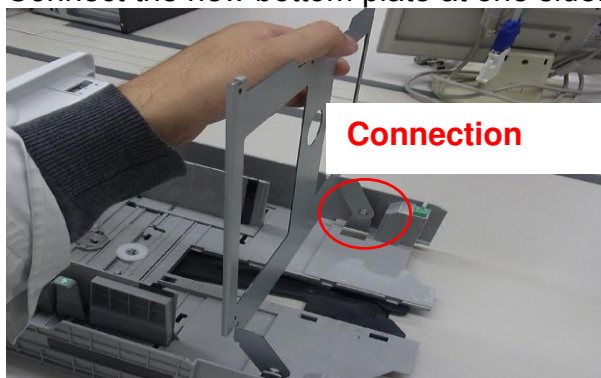


Model: Sh-MF1/P1

Date: 24-Mar-15

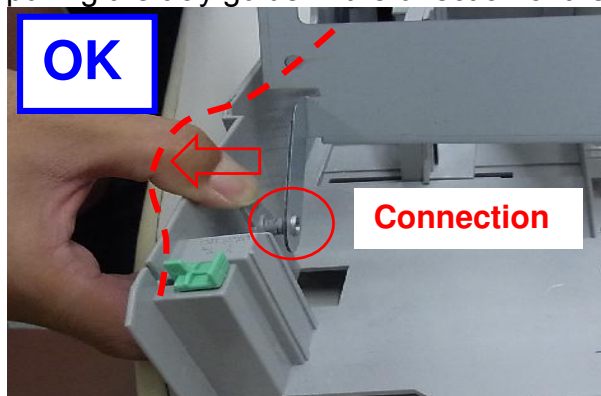
No.:RM052089

11. Connect the new bottom plate at one side.



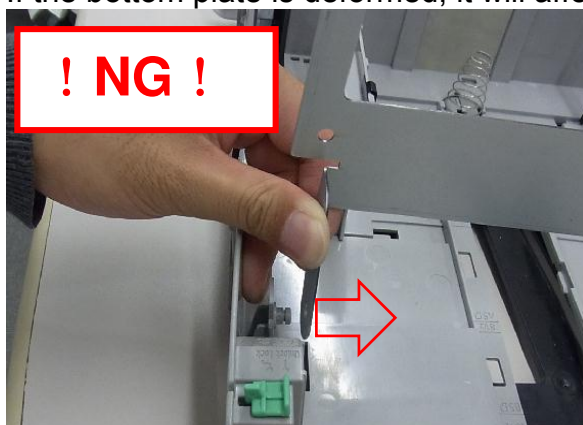
### **MOST IMPORTANT:**

Connect the opposite side **without putting any pressure on the bottom plate** by pulling the tray guide in the direction of the red arrow.



### **IMPORTANT: DO NOT put any pressure on bottom tray.**

If the bottom plate is deformed, it will affect the feeding quality and machine operation.



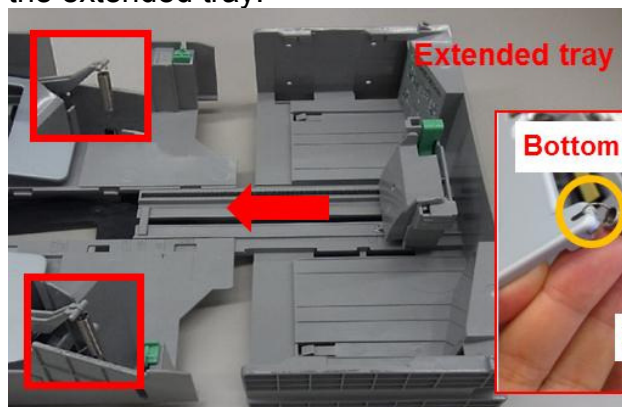


Model: Sh-MF1/P1

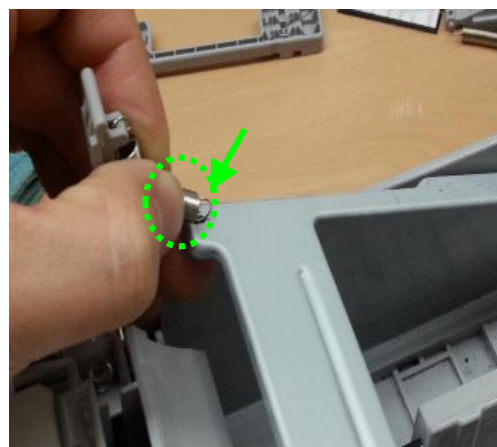
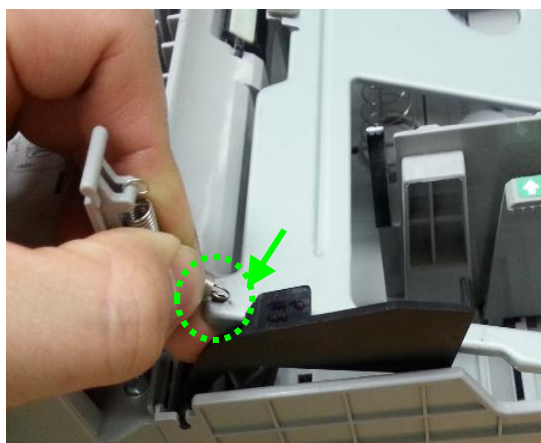
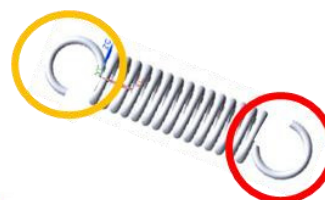
Date: 24-Mar-15

No.:RM052089

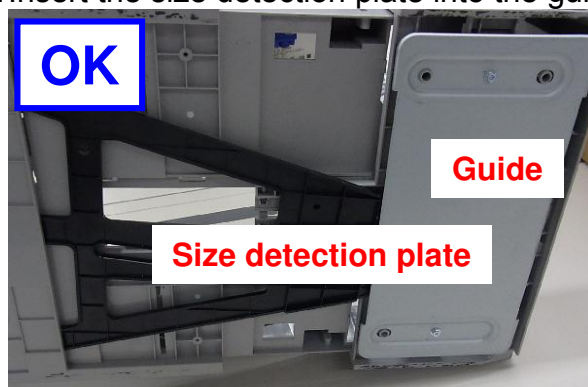
12. Attach the two springs from the opposite side to the bottom plate side, and then attach the extended tray.



Make sure that the direction of the hook is correct.



13. Insert the size detection plate into the guide.



Model: Sh-MF1/P1

Date: 24-Mar-15

No.:RM052089

**IMPORTANT: Do not attach the size detection plate outside the guide.**  
If you do, the machine cannot detect the paper size, and a jam will occur.

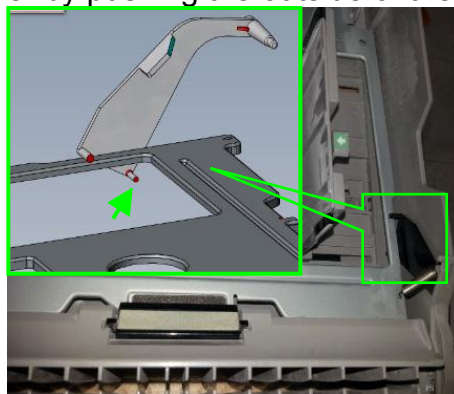
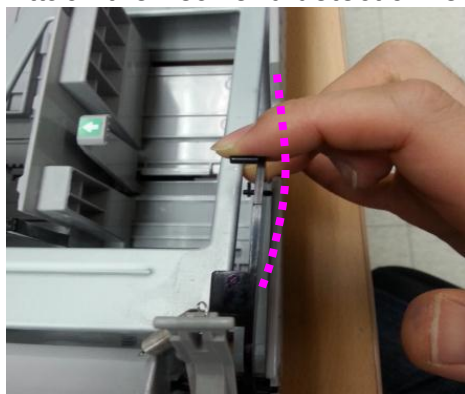


**Plate is positioned outside the guide**

14. Lift the tray bottom plate to its maximum position.



15. Attach the near end detection feeler by pushing the outside of the tray guide as shown.



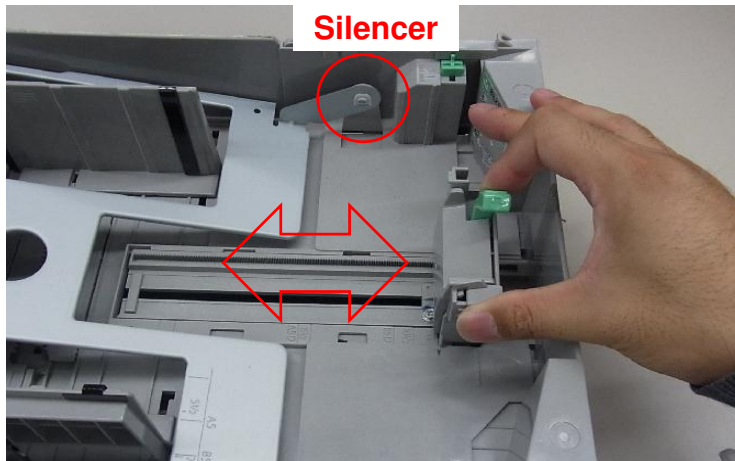
Model: Sh-MF1/P1

Date: 24-Mar-15

No.:RM052089

16. Attach the two silencers.

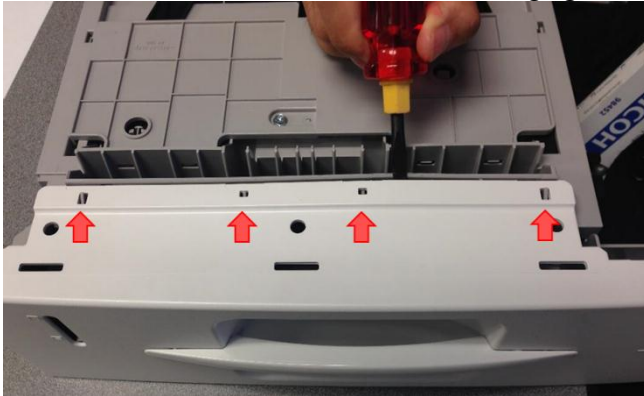
**Important:** Push the end fence and confirm that it operates smoothly.



**APPENDIX**

**If the paper thickness lever is stuck or difficult to move:**

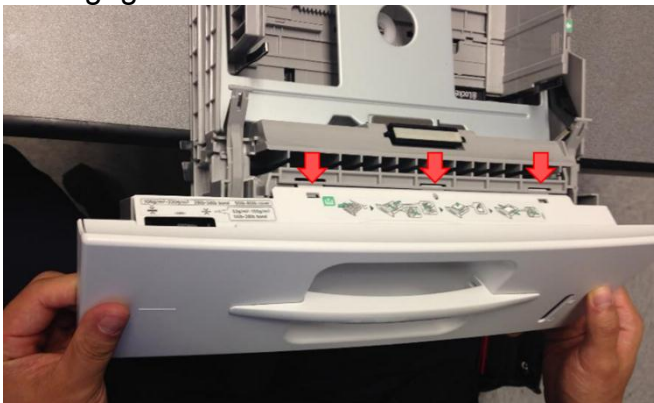
1. Insert a flathead screwdriver to disengage the four hooks (mainframe trays only).



2. Insert a flathead screwdriver to disengage the four hooks.



3. Disengage the three hooks and remove the cover.

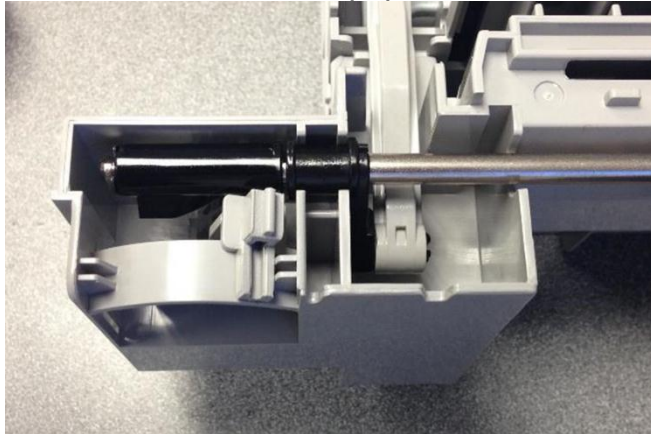


Model: Sh-MF1/P1

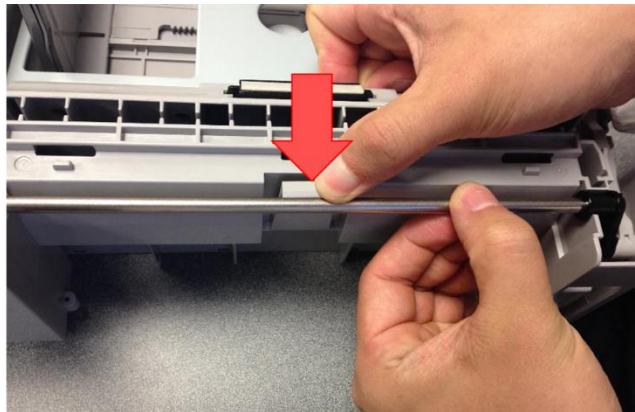
Date: 24-Mar-15

No.:RM052089

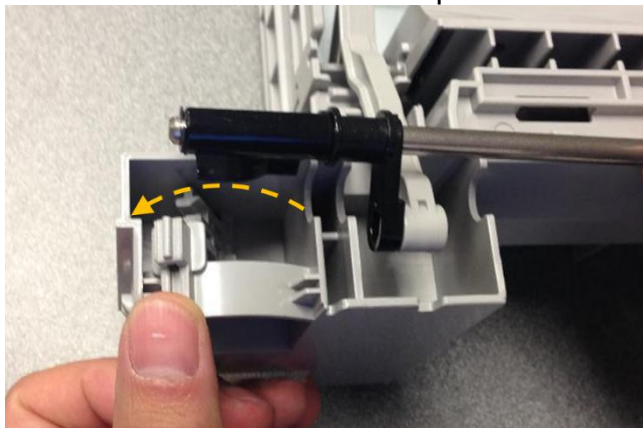
Cross-sectional view of the paper thickness lever:



4. Disconnect the shaft.



5. Switch the lever to the "Thick" position.



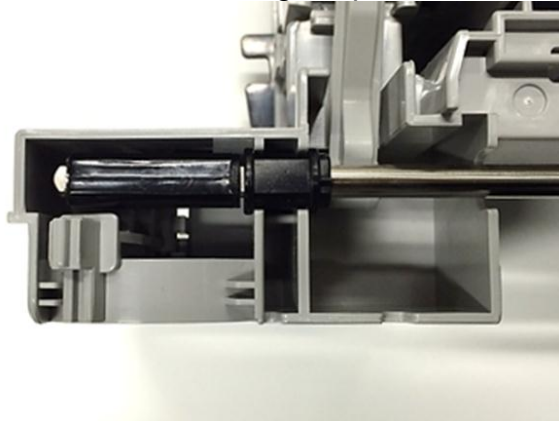


Model: Sh-MF1/P1

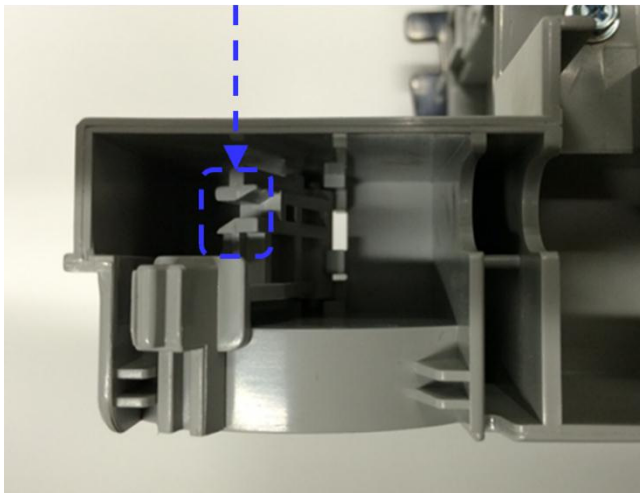
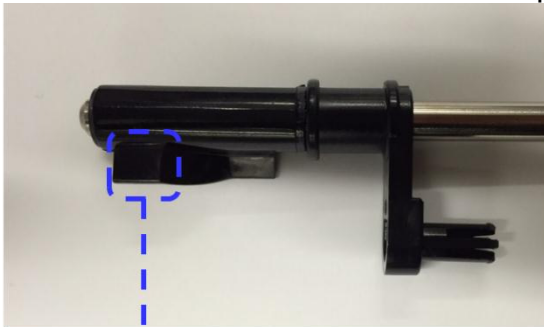
Date: 24-Mar-15

No.:RM052089

6. Return the shaft to its original position.

**IMPORTANT:**

Make sure the black “fin” is locked into the opening in the gray compartment, as shown.

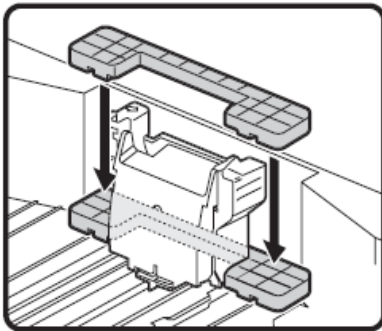


If the **SOLUTIONS** above do not resolve the symptom:

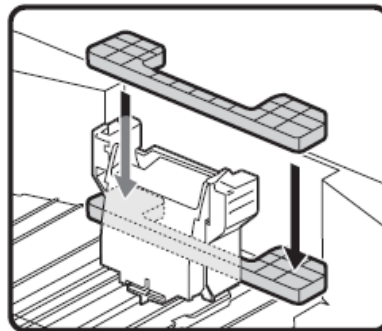
1. Check whether the end fence has been set correctly.
2. Attach the spacer (P/N: M0212570) behind the end fence using double-sided tape **or**, attach the decal (P/N: M0218840) as shown.
  - If the customer uses several paper sizes in one tray, **attach the decal** instead of the spacer. Otherwise, attach the spacer.
  - Before attaching the spacer/decal, clean the attachment surface.

Spacer:

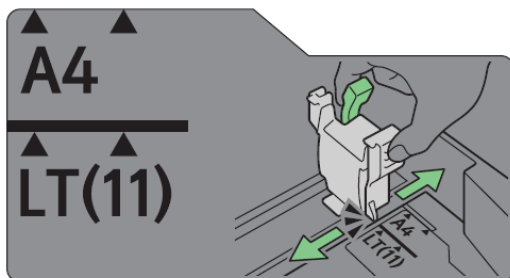
**A4/Legal**



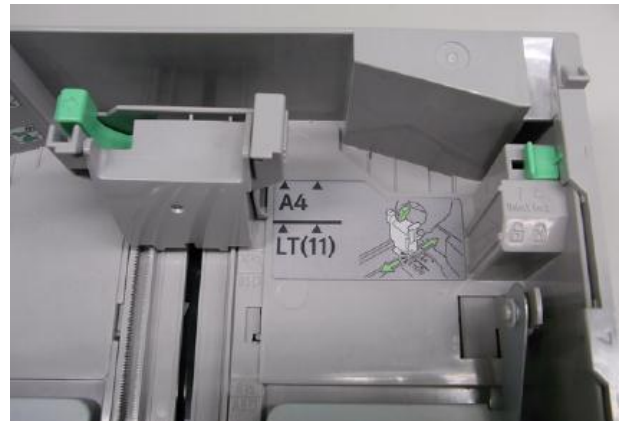
**Letter**



Decal (instructs how to set end fences)



Position:



Reissued: 4-Mar-16

Model: Model Sh-MF1	Date: 24-Mar-15	No.: RM052090a
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## RTB Reissue

The areas in ***bold italics*** have been revised.

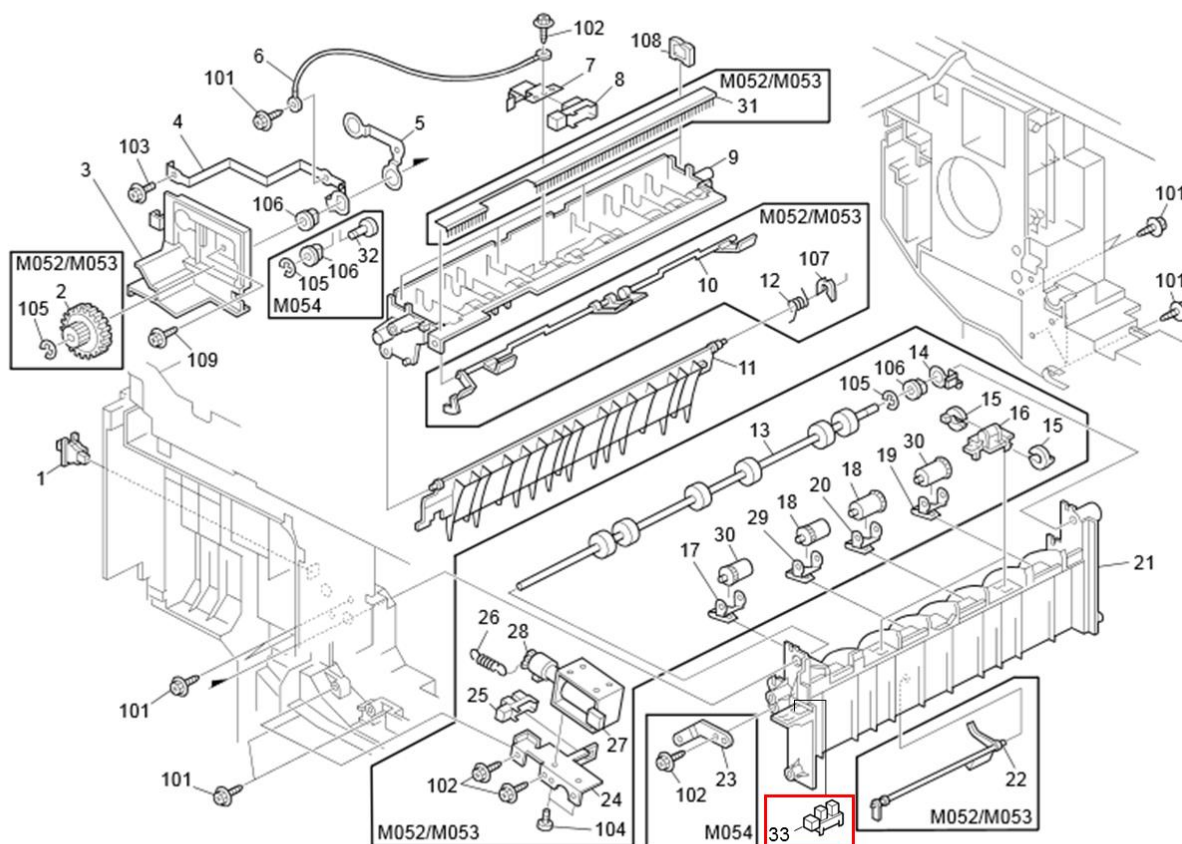
Subject: Parts catalog correction "Paper Exit"		Prepared by: J.Kitagawa	
From: 1st Tech Service Sect, MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change:** Photo reflection sensor (index #33) was added.

**Reason:** Parts information was missing from the parts catalog.

Added part number	Description	Q'ty	Page	Index	Note
<b><i>GW020020</i></b>	<b><i>PHOTOINTERRUPTOR:LG248NL1</i></b>	1	63	33	

### 27.Paper Exit 2 (M052/M053/M054)





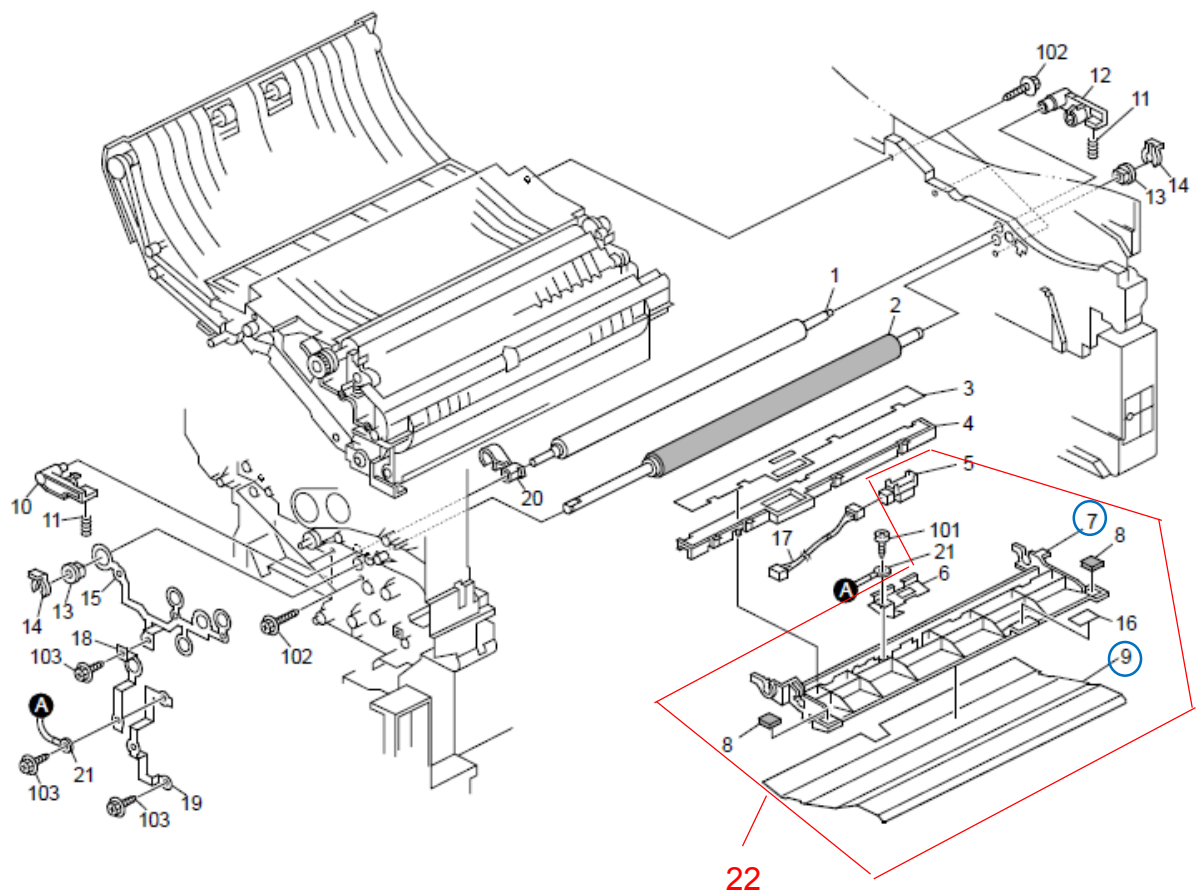
Model: Sh-MF1		Date:14-May-15	No.: RM052091
Subject: Parts Catalog Correction for Guide Plate for Registration		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change:** A guide plate assembly was added, and the guide plate and seal were deleted.

**Reason:** To further reduce the occurrence of duplex jams.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	<b>M0522940</b>	GUIDE PLATE:REGISTRATION:SUB:AS S'Y	0-1	-	51	22	
M0212966	-	GUIDE PLATE:REGISTRATION:UPPER	1-0	O/O	51	7	
M0522912	-	SEAL:GUIDE:PLATE:REGISTRA TION:UPPER	1-0	O/O	51	9	

## 21.Paper Resist (M052/M053/M054)



Model: Sh-MF1		Date: 14-May-15	No.: RM052092
Subject: Parts Catalog Correction for Decal for paper thickness lever		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change:** The decal for the paper thickness lever was deleted.

**Reason:** This lever has been set to 'Thick mode' to prevent non-feed jams from occurring.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M0526930	-	DECAL:PAPER TRAY:LEVER	1-0	X/O	45	29	

Model: Sh-MF1		Date: 22-May-15	No.: RM052093
Subject: FSM correction for SC827		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## Service Manual Correction

The following SC description was missing from the Service Manual.

### 6. Troubleshooting

- Service Call Conditions

- SC Code Descriptions

- SC8xx: Controller

No.	Type	Details (Symptom, Possible cause, Troubleshooting Procedures)
827	D	Self-diagnostic error: Standard SDRAM DIMM
		Error detected during a write/verify check for the standard RAM (SDRAM DIMM).
		<ul style="list-style-type: none"> <li>● Loose connection</li> <li>● Defective SDRAM DIMM</li> <li>● Defective controller</li> </ul>
		<ol style="list-style-type: none"> <li>1. Turn the main switch off and on.</li> <li>2. Replace the SDRAM DIMM.</li> <li>3. Replace the controller board.</li> </ol>

Model: Sh-MF1		Date: 28-Sep-15	No.: RM052094
Subject: Parts Catalog Correction - Manual Feed Clutch		Prepared by: T. Tachibana	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
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"/> Product Safety <input type="checkbox"/> Other (      ) <input type="checkbox"/> Tier 2		

**Change:** Manual feed clutch, its cover and housing

**Reason:** Vendor change

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M0522761	AX210106	ELECTROMAGNETIC CLUTCH:1TURN:Z41:MANUAL FEED	1-1	X/X	89	24	Set as O/O
M0521195	M0521188	COVER:DRIVE:ELECTROMAGNETIC CLUTCH	1-1	X/X	89	27	
M0521111	M0521122	HOUSING:DRIVE:MAIN:MF	1-1	X/X	89	25	

Model: Sh-MF		Date: 9-Oct-15	No.: RM052095
Subject: Manual correction - Caution note on PSU replacement		Prepared by: T. Tachibana	
From: 1st MFP Tech Service Sec., MFP Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (      )	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Please add the following caution in the field service manual.

#### 4. Replacement and Adjustment

##### > Electrical Components

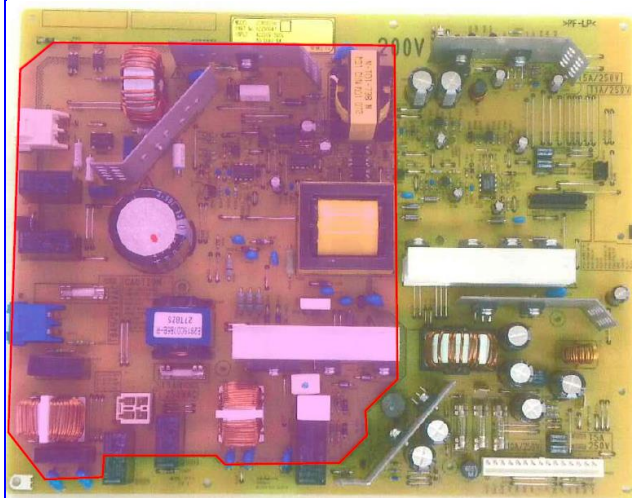
##### > PSU

#### ⚠ CAUTION:

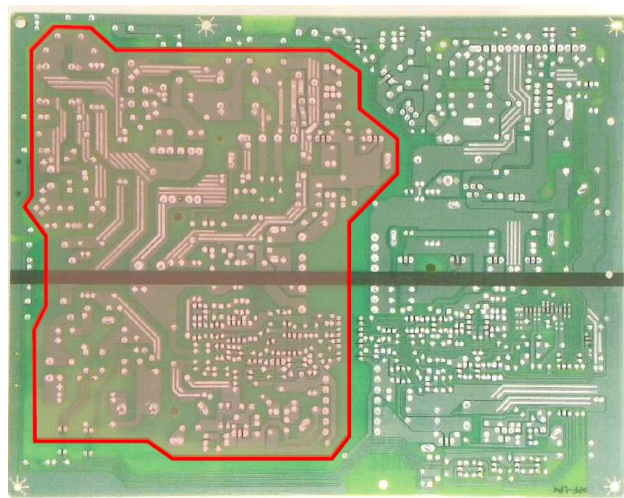
**NEVER touch** the areas outlined in red in the photos below, to prevent electric shock caused by residual charge.

Residual charge of about 100V-400V remains on the PSU board for several months even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.

Front:



Back:



Model: Sh-MF1/P1		Date: 21-Jul-17	No.: RM052096
Subject: Part Information (Shutter unit of AIO)		Prepared by: T.Tachibana	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Change:** The shutter unit of the AIO was registered as a service part.

**Reason:** To meet field requests.

Old P/N	New P/N	Description	Int	Q'ty
-	M0212340	SHUTTER:DRUM:ASS'Y	-	1

