

Model: Gim-P1c/Gim-P1d	Date: 21-Nov-14	No.: RM158003
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Subject: Firmware Release Note: NetworkDocBox		Prepared by: Y. Gaman	
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 **NetworkDocBox**.

Version	Program No.	Effective Date	Availability of RFU
1.01	M1595754B	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

Reissued: 01-Dec-15

Model: Gim-P1c/Gim-P1d	Date: 21-Nov-14	No.: RM158006a
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## RTB Reissue

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

Subject: Firmware Release Note: PowerSaving Sys		Prepared by: Y. Gaman	
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 **PowerSaving Sys.**

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.18</i></b>	<b><i>M1585775</i></b>	<b><i>October 2015 production</i></b>	<b><i>Available</i></b>
1.17	M1595775A	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>1.18</i></b>	<b><i>Symptom corrected:</i></b> <ul style="list-style-type: none"> <li>- <b><i>The machine may not recover from the energy saver mode and result in SCSC816-90, 01 or -26 or -35.</i></b></li> <li>- <b><i>SC672-11 may occur when the machine enters the energy saver mode.</i></b></li> <li>- <b><i>The machine may not recover from energy saver mode.</i></b></li> <li>- <b><i>SC672-11 may occur.</i></b></li> </ul>
1.17	1st Mass production

Reissued: 13-Oct-16

Model: Gim-P1d	Date: 21-Nov-14	No.: RM158015c
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## RTB Reissue

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

Subject: Firmware Release Note: Web Support		Prepared by: Y. Gaman	
From: 2nd 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><i>1.09</i></b>	<b><i>M1595750F</i></b>	<b><i>October 2016 production</i></b>	<b><i>Available</i></b>
1.08	M1595750E	June 2016 production	Available
1.07	M1595750D	July 2015 production	Available
1.06	M1595750C	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>1.09</i></b>	<b><i>Other changes:</i></b> - <b><i>Added support for adhering to the Lot 6 regulation of the EU in European devices.</i></b>
1.08	Other changes: - Support for the Portuguese orthography.
1.07	Other changes: - Support for AirPrint. This firmware is dependent on the following firmware modules. Please be sure to update all of them: - Printer firmware: v1.08 or later (M1595756E) - Network Support firmware: v13.23.1 or later (M1585753E)
1.06	1st Mass production

Reissued: 28-Oct-16

Model: Gim-P1d	Date: 21-Nov-14	No.: RM158016c
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## RTB Reissue

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

Subject: Firmware Release Note: OpePanel		Prepared by: Y. Gaman	
From: 2nd 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**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.08</i></b>	<b><i>M1595740F</i></b>	<b><i>October 2016 production</i></b>	<b><i>Available</i></b>
1.07	M1595740E	June 2016 production	Available
1.06	M1595740D	February 2015 production	Available
1.05	M1595740C	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>1.08</i></b>	<b><i>Other changes:</i></b> - <b><i>Support for ErP Lot 6 compliance.</i></b>
1.07	Specification Change: - Support for the Portuguese orthography.
1.06	Other changes: "Performance Priority" mode was added. - Performance Priority: Prioritizes print speed - Environment Priority (Default): Prioritizes environmentally-friendly conditions (duplex printing is slowed down after 70 sec.)
1.05	1st Mass production

Reissued: 24-Dec-15

Model: Gim-P1d	Date: 21-Nov-14	No.: RM158017a
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## RTB Reissue

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

Subject: Firmware Release Note: browser		Prepared by: E. Hinata	
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 **browser**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.04.00</i></b>	<b><i>M4445781B</i></b>	<b><i>December 2015 production</i></b>	<b><i>Available</i></b>
1.03.00	M4445781A	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>1.04.00</i></b>	<b><i>Symptom corrected:</i></b> - <b><i>Keyboard response is slow when using the Web Scanner application.</i></b> - <b><i>SC899 may occur when performing Java Script functions.</i></b>
1.03.00	1st Mass production

Reissued: 01-Dec-15

Model: Gim-P1d	Date: 21-Nov-14	No.: RM158018a
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## RTB Reissue

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

Subject: Firmware Release Note: Extended JS		Prepared by: Y. Gaman	
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 **Extended JS**.

Version	Program No.	Effective Date	Availability of RFU
<b><i>1.03.00</i></b>	<b><i>M4445784A</i></b>	<b><i>December 2015 production</i></b>	<b><i>Not Available</i></b>
1.02.12	M4445784	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>1.03.00</i></b>	<b><i>Specification Change:</i></b> - <b><i>Support for the Portuguese orthography.</i></b>
1.02.12	1st Mass production

Reissued: 28-Apr-15

Model: Ti-P1/Gim-P1c/Gim-P1d/Da-P1d/Z-P2	Date: 26-Nov-12	No.: RM109009c
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## RTB Reissue

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

Subject: Firmware Release Note: PCL Font		Prepared by: Y. Suzuki	
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 **PCL Font**.

Version	Program No.	Effective Date	Availability of RFU
1.16	M1095286	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
1.16	1st Mass production

Reissued: 28-Apr-15

Model: Ti-P1/Gim-P1c/Gim-P1d/Da-P1d/Z-P2	Date: 26-Nov-12	No.: RM109014c
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## RTB Reissue

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

Subject: Firmware Release Note: Font EXP		Prepared by: Y. Suzuki	
From: 2nd 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 **Font EXP**.

Version	Program No.	Effective Date	Availability of RFU
1.00	M1095287	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	1st Mass production



Reissued: 06-Feb-15

Model: <b>MET-C1ab/ MET-C1cde/MET-C1yz/MET-C1yz_SOP/ Z-C2/Z-C2_SOP/ CH-C1 Office/OR-C2/Cor-C1/Cor-C1_SOP/K-C4 /Gim-MF1a/Gim-MF1b/Gim-MF1d/Gim-P1c/Gim-P1d/BR-C1/ Leo-C1/Leo-P1</b>	Date: 13-Mar-14	No.: RD147059a
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## RTB Reissue

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

Subject: Firmware Release Note: SD card for Fonts Type D		Prepared by: N. Yoshida	
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

## Important Information about Normal/Smart Panel Firmware Updates

- When updating machine firmware, make sure **NOT** to install Smart Panel supported firmware on a machine with a normal operation panel (and vice-versa). If you do, the machine may not function as designed and product warranty may not apply.
- To avoid this, when updating the firmware, make sure that the numbers next to "NEW" and "ROM" are **the same** on the operation panel.
- If you install the wrong firmware, repeat the update procedure and check the numbers mentioned above.

This RTB has been issued to announce the firmware release information for the **SD card for Fonts Type D**.

Version	Program No.	Effective Date	Availability of RFU
0.00	M1095277	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
0.00	1st Mass production

Reissued: 25-Jun-15

Model: Gim-P1 c/dM	Date: 09-Mar-15	No.: RM158021a
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## RTB Reissue

Subject: Dirty reverse side of printing sheets		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:** The shapes and/or material of the following parts were changed.

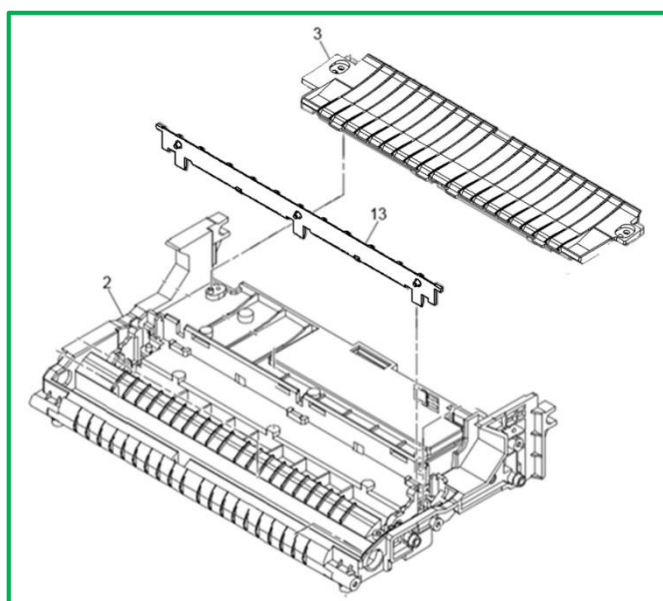
1. The maximum height of the guide rib of the exit guide stay was shortened.
2. The material and shape of the electrode plate cover was changed.
3. The shape of the transfer stay was changed as shown in the illustration.

**Reason:** To further minimize staining on the printed paper.

**Note:** The reverse side of the printed sheets may get dirty when the sheets pass through the area indicated in the illustration.

**Important:** These three parts need to be installed **together as a set**.

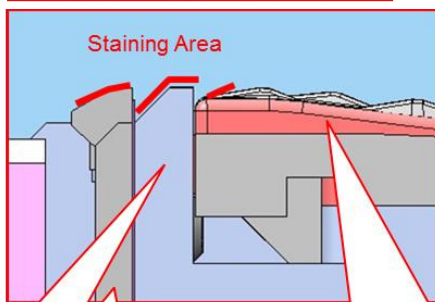
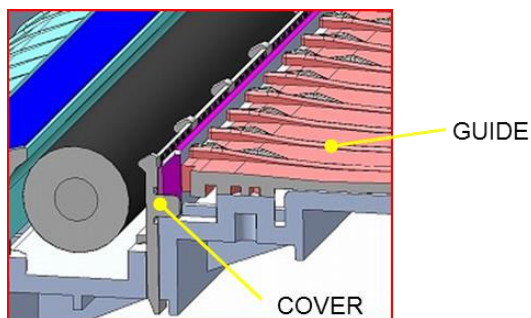
Incorrect part number	Correct part number	Description	Q'ty	Int	Page	Index	Note
M1603861	<b>M1603865</b>	COVER:ELECTRODE PLATE:SEPARATION:2	1 - 1	X/X	22	13	X/O as a set
M1603851	<b>M1603866</b>	GUIDE:EXIT:STAY:TRANSFER:2	1 - 1	X/X	22	3	
M1603850	<b>M1603870</b>	STAY:TRANSFER	1 - 1	X/X	22	2	



Reissued: 25-Jun-15

Model: Gim-P1 c/dM	Date: 09-Mar-15	No.: RM158021a
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Old

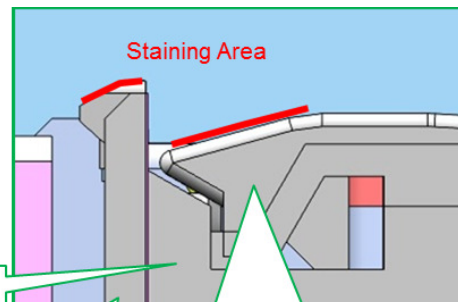
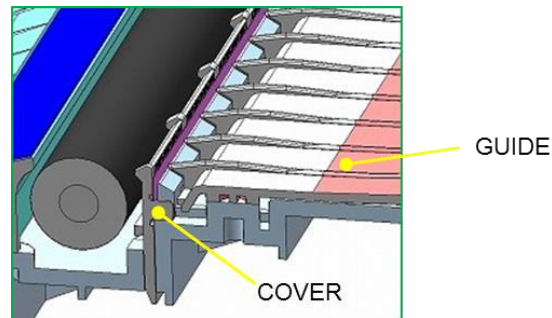


M1603850  
STAY:TRANSFER

M1603851  
GUIDE:EXIT:STAY:TRANSFER

M1603861  
COVER:ELECTRODE PLATE:SEPARATION

New



M1603870  
STAY:TRANSFER

M1603866  
GUIDE:EXIT:STAY:TRANSFER:2

M1603865  
COVER:ELECTRODE PLATE:SEPARATION:2

## Mass production

MODEL NAME	DESTINATION	CODE	SERIAL NUMBER	Produced Date
SP 4510DN	NA	M158-17	T575H102101 -	2015.01.09
	CHN	M158-21	T575H200001 -	2015.02.07
	EU/AA	M158-27	T574HC00582 -	2014.12.15
SP 4520DN	NA	M159-17	T584HC00001 -	2014.12.12
	EU/AA	M159-27	T584HC00820 -	2014.12.15

Reissued: 11-Nov-15

Model: Gim-P1c/dM	Date: 13-Mar-15	No.: RM158022b
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## RTB Reissue

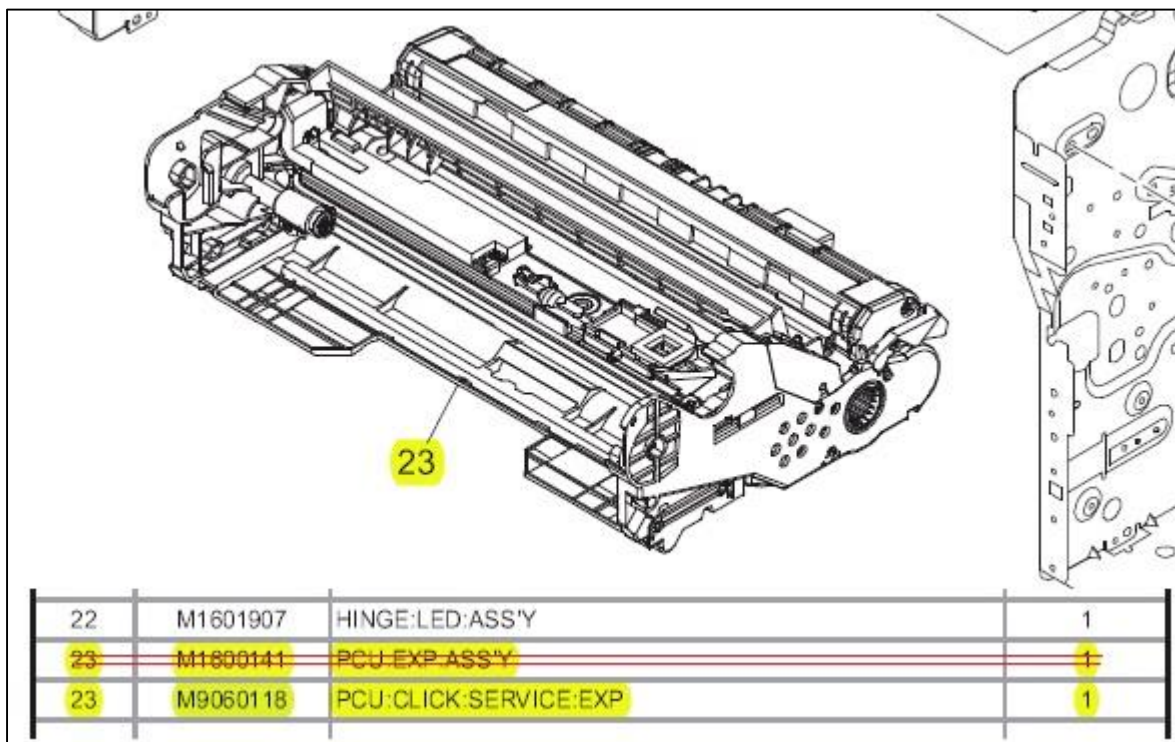
The items in ***bold italics*** have been changed or added.

Subject: Parts catalog correction		Prepared by: H.K.	
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 PCU: EXP:ASS'Y for the User Maintenance Model SP 4510DN was deleted.

**Reason:** This assembly will not be registered as a service part.

**Important:** For the Meter Click/Meter Charge model SP 4520DN, use  
***"PCU:CLICK:SERVICE:EXP" (P/N M9060118).***



**Reissued: 11-Nov-15**

Model: Gim-P1c/dM	Date: 13-Mar-15	No.: RM158022b
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Please correct your part catalog as shown.

<i>Old part number</i>	<i>New part number</i>	<i>Description</i>	<i>Q'ty</i>	<i>Int</i>	<i>Page</i>	<i>Index</i>
<i>M1600129</i>	<i>M9060118</i>	<i>PCU:CLICK:SERVICE:EXP</i>	<i>1 - 1</i>	<i>O/O</i>	<i>10</i>	<i>23</i>

**Change: Part number**

**Reason: The new part includes the instruction "Notes for Replacing the Photo Conductor Unit" attached below in its packing box.**



M1607568.pdf

Reissued: 20-Mar-15

Model: Gim-P1c/Gim-P1d/ <i>Da-p1d</i>	Date: 21-Nov-14	No.: RM158019a
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## RTB Reissue

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

Subject: Firmware Release Note: Option Netware		Prepared by: Y. Gaman	
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 Netware**.

Version	Program No.	Effective Date	Availability of RFU
13.07	M4445782	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
13.07	1st Mass production

Model: Gim-P1c/dM		Date: 26-May-15	No.: RM158023
Subject: Bracket/Parts Catalogue Correction		Prepared by: H.K.	
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		

Incorrect part number	Correct part number	Description	Q'ty	Int	Page	Index	Note
M1595528	<b>M1605528</b>	BRACKET:EMI:MF1D	1 - 1	X/O	36	23	

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

Model: Gim-P1c/dM		Date: 27-May-15	No.: RM158024
Subject: LED Lever Decal		Prepared by: H.K.	
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

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	M1601934	DECAL:OPERATE:LEVER:LED	0 - 1		12	*17	

\*: New Index

**Change:** An instructional decal for the LED lever was added.

**Reason:** To facilitate easier operation of the LED lever.



LED Lever Operate Decal





Model: Gim-P1c/dM

Date: 27-May-15

No.: RM158024

**SHINDO Production**

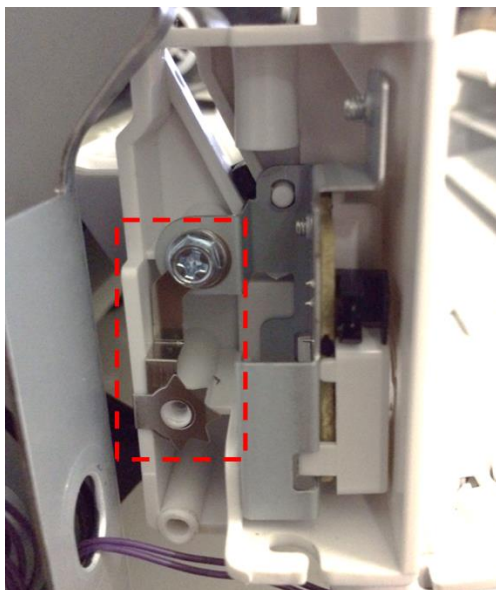
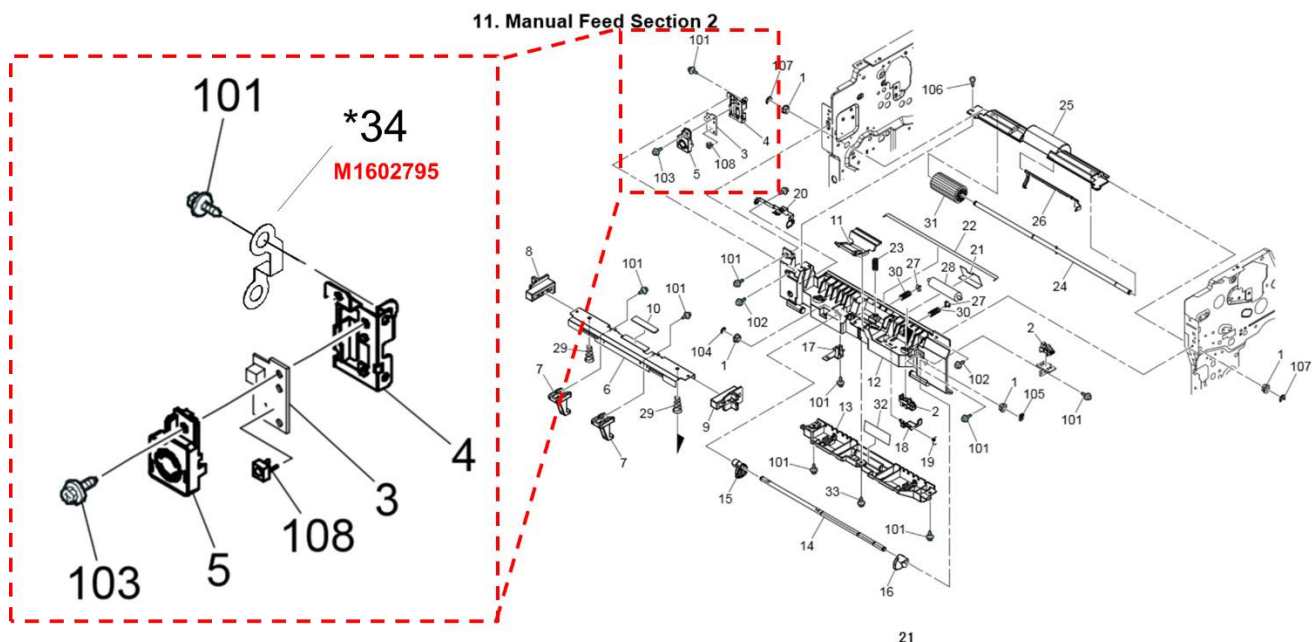
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin SP4510DN Lanier SP4510DN Ricoh SP4510DN	115/60	USA	M158-17	T574HCxxxxx
Gestetner SP4510DN Nashuatec SP4510DN Rex Rotary SP4510DN Lanier SP4510DN Ricoh SP4510DN	220/50	Europe, Asia	M158-27	T594HCxxxxx
Ricoh SP 4510DN	220/50	China	M158-21	T574HCxxxxx
Savin SP 4520DN Lanier SP 4520DN Ricoh SP 4520DN	115/60	USA	M159-17	T584HCxxxxx
Gestetner SP 4520DN Nashuatec SP 4520DN Rex Rotary SP 4520DN Lanier SP 4520DN Ricoh SP 4520DN	220/50	Europe, Asia	M159-27	T584HCxxxxx

Model: Gim-P1c/dM		Date: 03-Jun-15	No.: RM158025
Subject: Part catalog correction "Manual Feed Section 2"		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:** Ground plate was added.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	M1602795	GROUND PLATE:MAIN SWITCH	0 - 1		22	*34	

\*: New Index

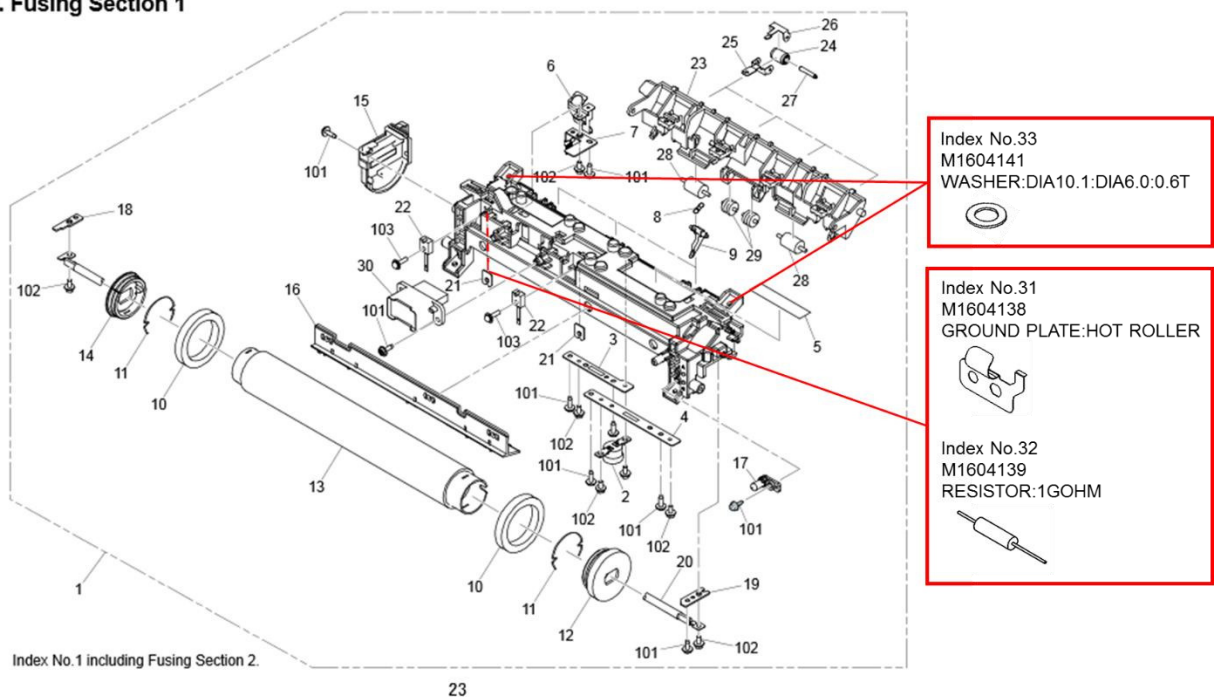


Model: Gim-P1c/dM		Date: 25-Jun-15	No.: RM158026
Subject: Part catalog correction "Fusing Section 1"		Prepared by: J.Kitagawa	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> 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:** Geometry of these parts has changed.

Incorrect part number	Correct part number	Description	Q'ty	Page	Index	Note
-	<b>M1604138</b>	GROUND PLATE:HOT ROLLER	1	24	31	
-	<b>M1604139</b>	RESISTOR:1GOHM	1	24	32	
-	<b>M1604141</b>	WASHER:DIA10.1:DIA6.0:0.6T	1	24	33	

## 12. Fusing Section 1



Model: GIM-P1c/dM		Date: 22-Jul-15	No.:RM158027
Subject: Poor fusing caused by wrong lever position		Prepared by: Y. Gaman	
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

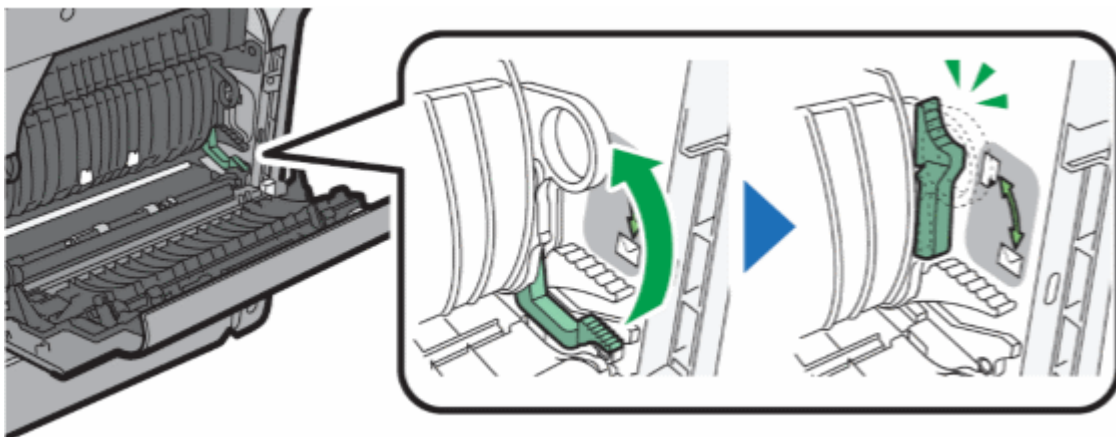
Toner is not properly fixed when printed on a recommended type of plain paper.

## CAUSE

The lever is set to the low position for envelope printing.

## SOLUTION

Raise the lever to the high position.



CYN480

## Note:

Lower this lever only when printing on envelopes.

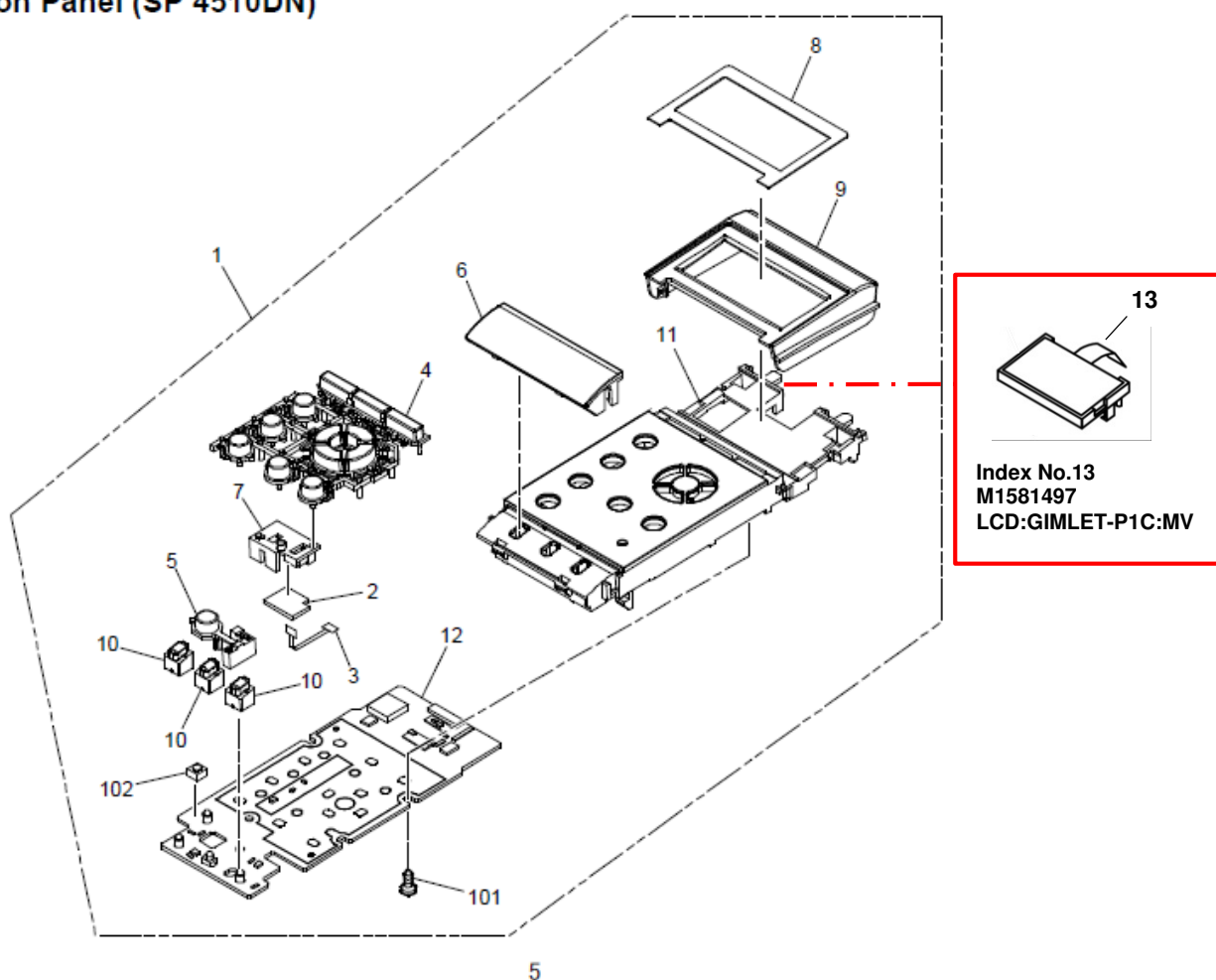
After installing the device or replacing the fusing unit, make sure to raise the lever.

Model: Gimlet-P1c/dM		Date: 28-Jul-15	No.: RM158028
Subject: Parts catalog correction "Operation Panel"			Prepared by: N.Yasuda
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

The following part information was missing from the parts catalog.

Added part number	Description	Q'ty	Page	Index
M1581497	LCD:GIMLET-P1C:MV	1	6	13

### 3. Operation Panel (SP 4510DN)



Model: Gimlet-P1c/dM

Date: 28-Jul-15

No.: RM158028

### 3. Operation Panel (SP 4510DN)

Index No.	Part No.	Description	Q'ty Per Assembly
1	M1581401	OPERATION SUB-UNIT:GIMLET-P1C:NA:ASS'Y	1
1	M1581404	OPERATION SUB-UNIT:GIMLET-P1C:CHN:ASS'Y	1
2	M1291470	PCB:4.3-P:SENSOR:ASS'Y	1
3	M1291485	CABLE:FFC:SENSOR	1
4	M1581452	KEYTOP:MAIN	1
5	M1581453	KEYTOP:RESUME	1
6	M1581455	LENS:LED	1
7	M1581456	LENS:SENSOR	1
8	M1581457	SHEET:OPERATION SUB-UNIT:LCD	1
9	M1581458	COVER:LCD	1
10	M1581459	LENS:INSIDE	3
11	M1581451	COVER:OPERATION SUB-UNIT:GIMLET-P1C:NA	1
11	M1581464	COVER:OPERATION SUB-UNIT:GIMLET-P1C:CHN	1
12	M1581470	PCB:GIMLET-P1C:OPU	1

Index No.	Part No.	Description	Q'ty Per Assembly
101	04523010N	BINDING SELF-TAPPING SCREW:3X10	
102	12042555	TACTSWITCH:SKHVBB010	



Index No.	Part No.	Description	Q'ty Per Assembly
13	M1581497	LCD:GIMLET-P1C:MV	1

**Reissued: 14-Dec-15**

Model: GIM-P1c/dM	Date: 22-Oct-15	No.:RM158029a
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**RTB Reissue**

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

Subject: Manual correction - Caution note on PSU replacement		Prepared by: Y. Gaman	
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 checked="" type="checkbox"/> Tier 2

Please add the following caution in the field service manual in this section:  
 Replacement and Adjustment > Electrical Components > PSU

Parts number	Parts description	Product code
AZ230267	POWER SUPPLY UNIT:GIM-MF1:DOM/NA	M158, M159
AZ230269	POWER SUPPLY UNIT:GIM-MF1:EU/AA/CHN	M158, M159



Reissued: 14-Dec-15

Model: GIM-P1c/dM

Date: 22-Oct-15

No.:RM158029a

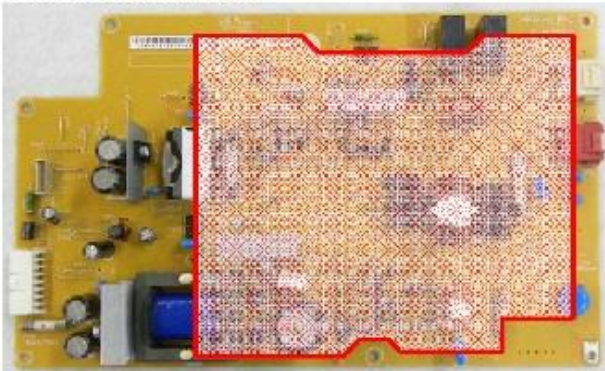
## ⚠ CAUTION:

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

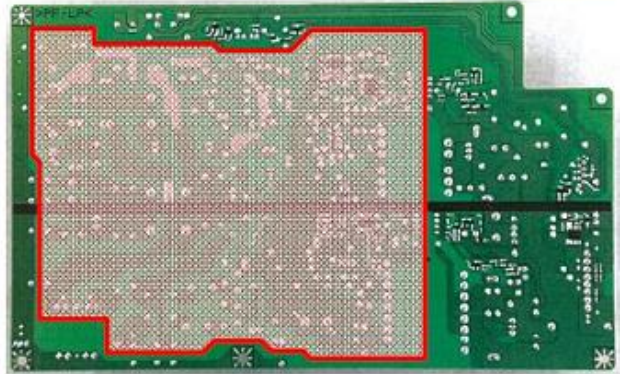
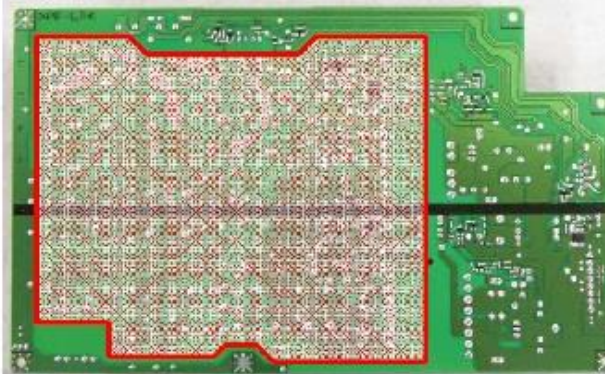
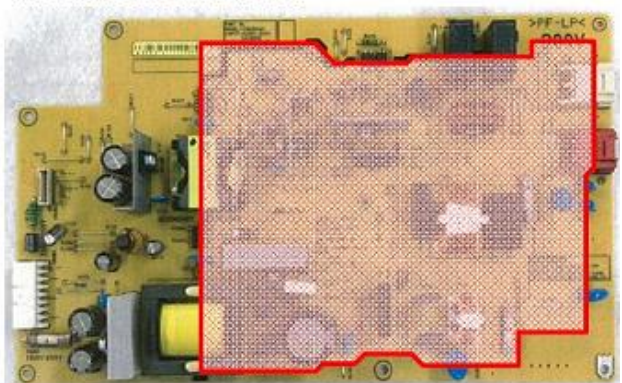
Residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.

The procedure to discharge residual charge from the machine by unplugging the power cord from the AC wall outlet and pressing the main power switch works only for the DC circuits on this board. Residual charge remains in the AC circuits.

M158.M159:DOM/NA



M158.M159:EU/AA/CHN



\* The areas outlined in red for M158,M159:DOM/NA were corrected.



**Reissued: 5-Apr-18**

Model: GIM-P1c/dM	Date: 28-Oct-15	No.RM158030c
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## RTB Reissue

Text within the red frame have been added.

Subject: Part Catalog correction : Transfer Guide		Prepared by: Y. Gaman	
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

**We don't recommend replacing parts of transfer section.**

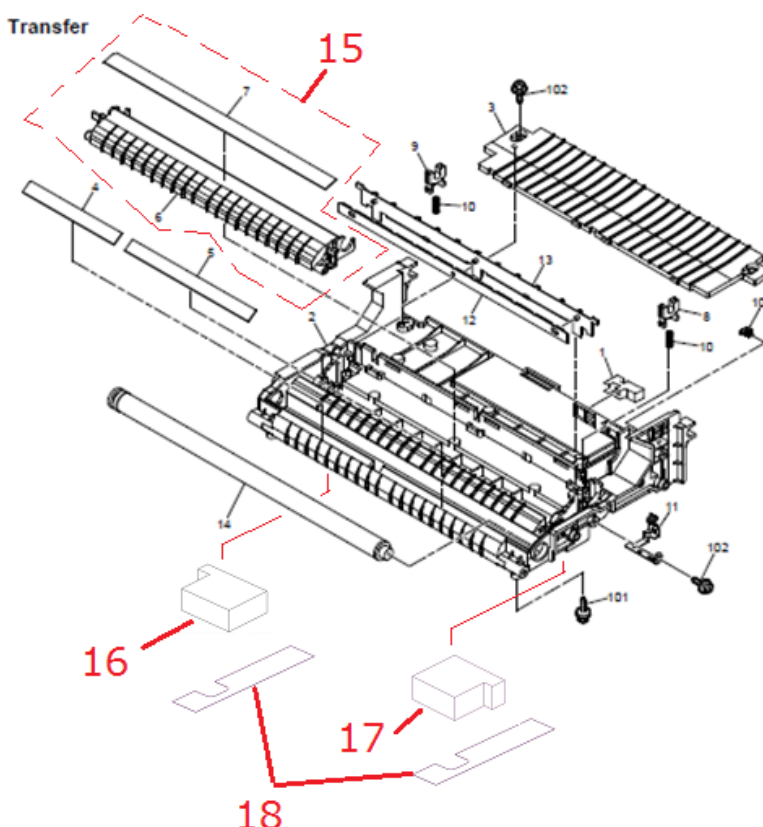
**Because it is so difficult and time consuming to replace these parts in the field, and the risk of the machine being broken is very high during the process.**

**This RTB(RM160030) explains the replacement to avoid black band stains caused by dropped toner on the front paper guide of the transfer roller, however this toner dropping occurs after reaching to the PCU life.**

**Because of the above reason,**

**we recommend to replace the PCU when the PCU reaches its life.**

Old part number	New part number	Description	Q'ty	Int	Index
M1603850	M1603870	STAY:TRANSFER	1	X/X	2
	M1603877	SPONGE:TRANSFER/ SEPARATION UNIT:LEFT	1	X/X	16
	M1603878	SPONGE:TRANSFER/SEPARATION UNIT:RIGHT	1	X/X	17
	M1603879	SHEET:TRANSFER UNIT: TONER CATCHPAN	2	X/X	18
M1603881	M1603880	GUIDE:TRANSFER ROLLER: CLICK:ASS'Y	1	X/X	15
M1603854	M1603874	GUIDE:TRANSFER ROLLER: CLICK	1	X/X	6
M1603855	M1603875	SHEET:GUIDE:TRANSFER ROLLER:CLICK	1	X/X	7



**Reissued: 5-Apr-18**

Model: GIM-P1c/dM	Date: 28-Oct-15	No.RM158030c
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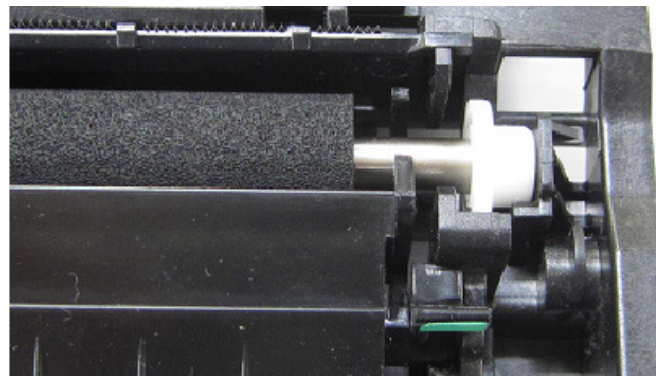
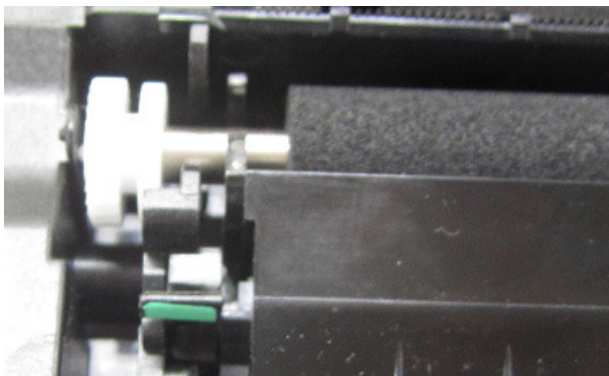
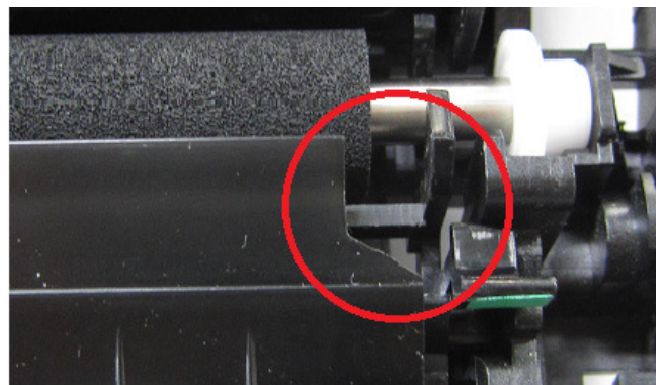
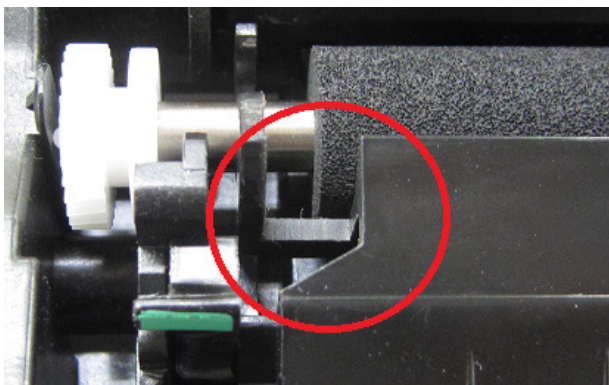
**Change**

- A cut-out was applied to the right and left edges of the front paper guide of the transfer roller.
- Sponges and sheets were added to the transfer stay.

**Reason**

To avoid black band stains caused by dropped toner on the front paper guide of the transfer roller.

With this modification, dropped toner goes around the right and left edges of the front paper guide and accumulates on the transfer stay.

**Old****New**

**Reissued: 5-Apr-18**

Model: GIM-P1c/dM	Date: 28-Oct-15	No.RM158030c
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**IMPORTANT**

This modification has compatibilities. Since the old transfer stay cannot be replaced in the field and the stay of the old type is compatible only with the front paper guide of the old type, when replacing the front paper guide of an old machine, make sure to procure the old type.

- Model GIM-MF1d:

This modification allows usage of the PCDU even after exceeding 23K by modifying SP5-931-003. However, DO NOT modify this SP on machines manufactured prior to this modification, because the front paper guide and transfer stay are both of the old type and will cause toner accumulation on the front paper guide when reaching approximately 23K.

- Model GIM-MF1dM:

Cleaning of the front and rear transfer roller guides is not mandatory for machines applied of this modification. However, note that the cleaning is mandatory for the machines manufactured prior to this design modification.

**Cut-in serial number:****Shindoh (China) Production**

MODEL NAME	DESTINATION	CODE	SERIAL NUMBER
Ricoh SP4510SF	USA	M160-17	TBD
	Europe, Asia	M160-27	T595HA02257
MP 401SPF,	USA	M161-17	T605HB00001
	Europe	M161-27	T605H900204
	Asia	M161-29	T605H900001

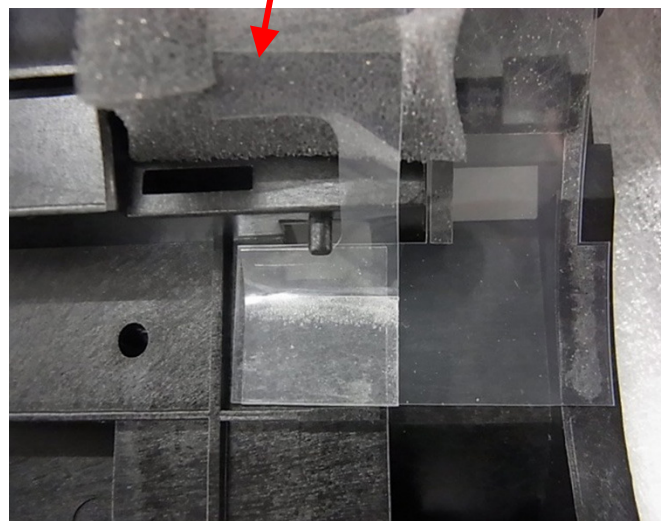
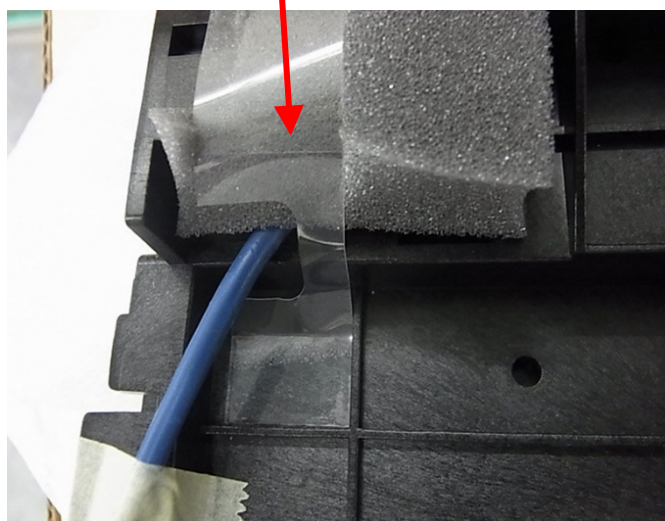
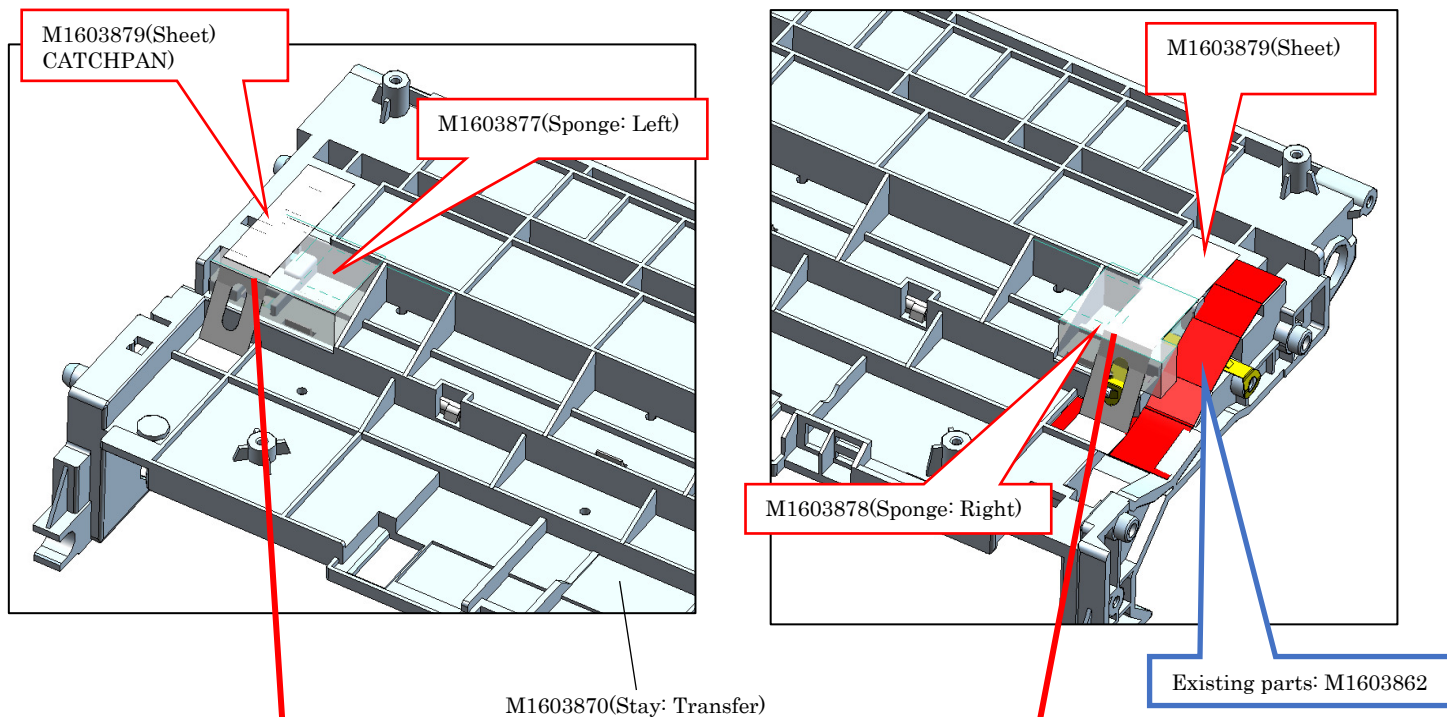
This modification applies to the first mass production of the Model GIM-MF1dM, newly released for the European market.

Reissued: 5-Apr-18

Model: GIM-P1c/dM	Date: 28-Oct-15	No.RM158030c
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## Pasting Position of Sponge and Sheet

Part Number	Description	#index
M1603870	Stay: Transfer	2
M1603877	Sponge: Trans/Sep Unit: Left	16
M1603878	Sponge: Trans/Sep Unit: Right	17
M1603879	Sheet: Trans Unit: Toner Catch Pan	18



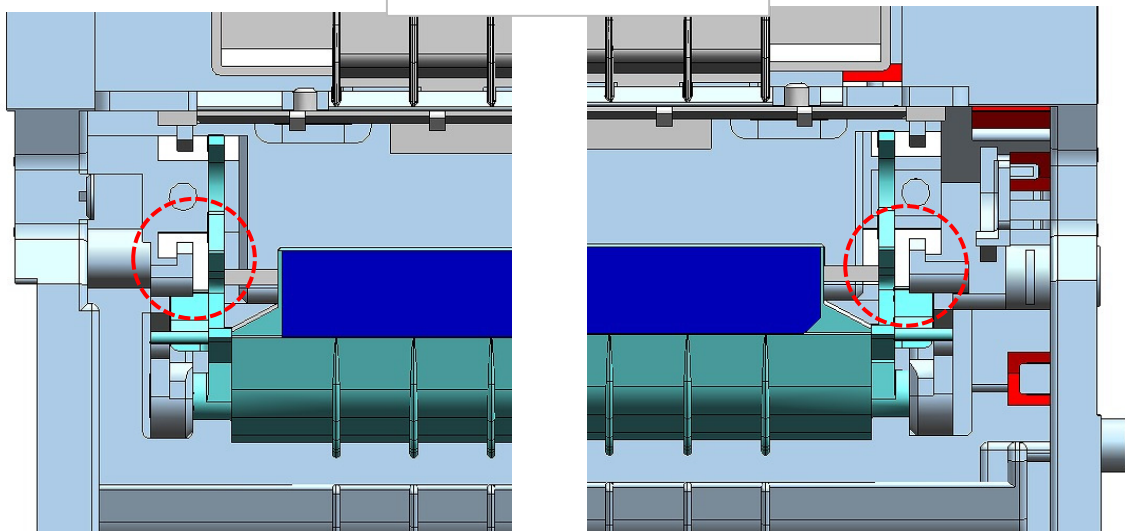


Reissued: 5-Apr-18

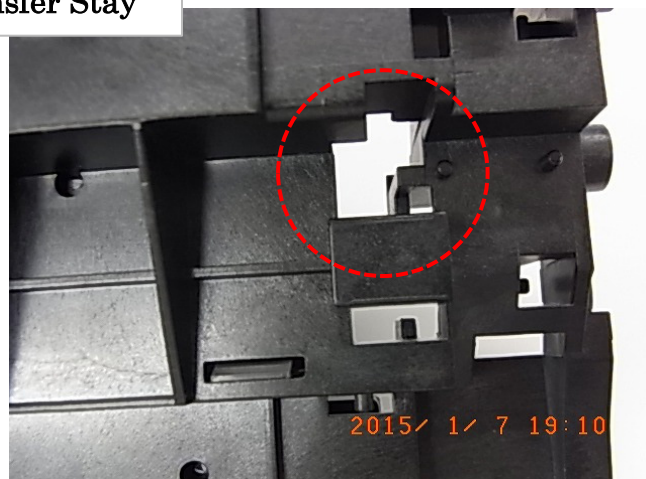
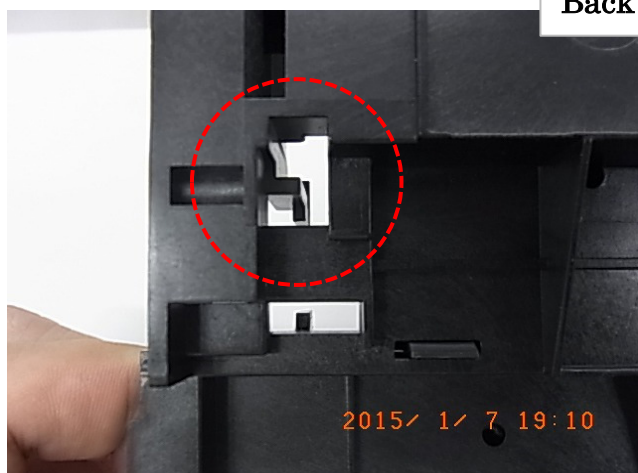
Model: GIM-P1c/dM	Date: 28-Oct-15	No.RM158030c
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• *Supplementary information*

Front of Transfer Stay



Back of Transfer Stay



Back of Transfer Stay



#16 Sponge: Left

#18 Sheet

#17 Sponge: Right

Reissued: 08-Dec-15

Model: Gim-P1c/Gim-P1d	Date: 21-Nov-14	No.: RM158020a
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## RTB Reissue

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

Subject: Firmware Release Note: Option IPDS		Prepared by: Y. Gaman	
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 **Option IPDS**.

Version	Program No.	Effective Date	Availability of RFU
<b>8.609</b>	<b>M4445773A</b>	<b>December 2015 production</b>	<b>Available</b>
8.606	M4445773	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>8.609</b>	<b><i>Other changes:</i></b> - <b><i>The drawing area for "Edge to Edge" printing is now wider.</i></b> <b><i>This firmware is dependent on Engine firmware v1.24.13 (M1585550K) or later, so please be sure to update it as well.</i></b>
8.606	1st Mass production

Model: Gim-P1c/dM		Date: 22-Dec-15	No.: RM158031
Subject: Manual correction: SP 2-997-001		Prepared by: Y. Gaman	
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 type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## Service Manual Correction

SP2-997-001 was added to the following section in the FSM.

Appendices: SP Mode Tables > Main SP Tables-2 > SP2-XXX (Drum)

2997	[PCDU STOP]		
2-997-001	End Mgn Distance	E	[100000 to 960000000 / <b>2000000</b> /10000mm/ step] The parameter which is used to calculate the print stop end threshold [mm].  Note: Do not change the setting.

## Important Note:

The default value indicates “10490000” in SP mode, but the actual value is set to “2000000” as its default at the factory.

Please do not change the value “2000000” to any other values.

Model: Gim-P1c/dM		Date: 22-Dec-15	No.: RM158032
Subject: Parts Catalog Correction : CTL board		Prepared by: Y. Gaman	
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

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M1585604	M1585792	PCB:CTL:GIM-P1C_EXP:40CPM (SP4510DN)	1	X/O	36	2	P1c
	M1595791	PCB:CTL:EXP:40CPM (SP4520DN)					P1dM

**Change/Reason:**

The old controller board (p/n: M1585604) caused SC995-04.

New controller boards (p/n: M1585792 and p/n: M1595791) were registered as service parts for the first mass production units.

The parts catalog has been corrected accordingly.



Model: Gim-P1/MF1		Date:22-Dec-15	No.: RM158033
Subject: Troubleshooting: Envelope Wrinkles		Prepared by:K.Nakano	
From: 1st Tech. Support Sec. Service Support 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 <input type="checkbox"/> Tier 0.5

## SYMPTOM

Wrinkles occur when printing on envelopes.

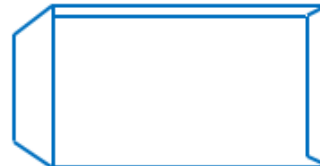
## SOLUTION

Follow the steps as follows to resolve or minimize wrinkles on envelopes.

### 1 Check Envelope Type

There are a variety of envelopes. Check the type of the wrinkled envelope as a reference for the later steps.

Examples:

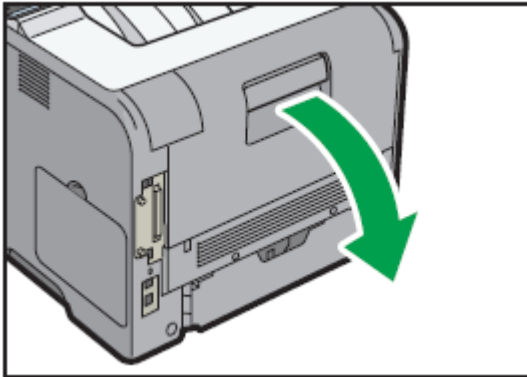


Note:

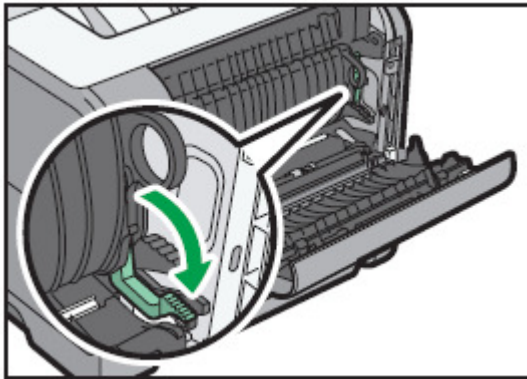
Do not use window envelopes.

**2 Check the Envelope Lever Position**

Open the rear cover as shown in the image below.

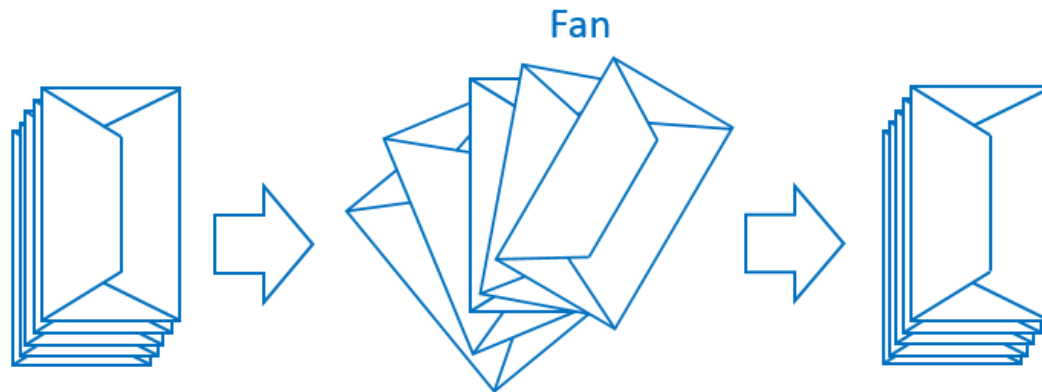


Lower the envelope lever all the way down to the envelope position as shown in the image below



### 3 Fan Envelopes

Fan envelopes to separate them because they may stick together with glue on their flaps.

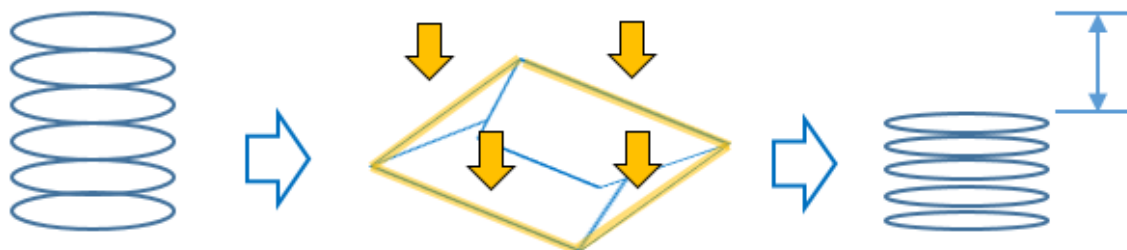


Note:

If the envelopes still stick together, then load them one by one.

### 4 Flatten Envelopes

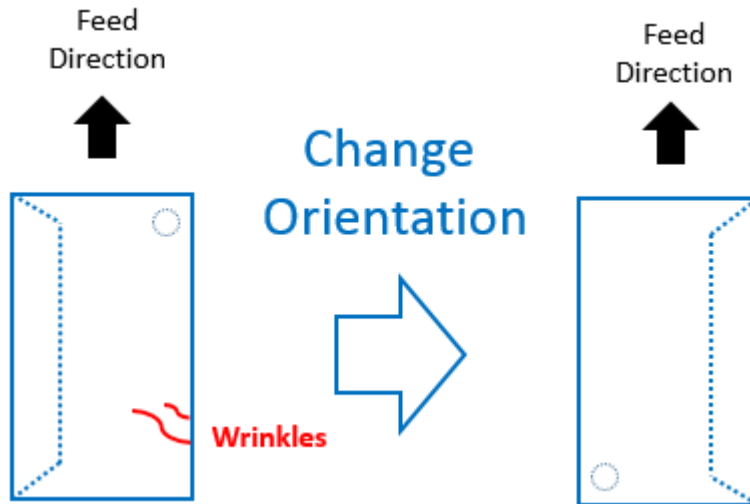
Flatten out all the four edges and press down on them to remove any air from inside.



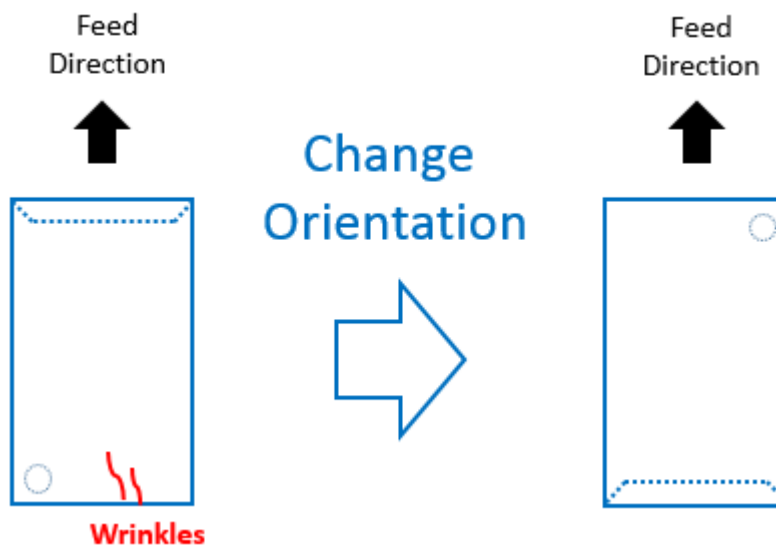
## 5 Load Envelopes onto the Standard Tray or Bypass Tray

Before loading onto the standard tray or bypass tray, check the wrinkles location and change the orientation accordingly.

- If the wrinkles appear on the SIDE of the envelopes:



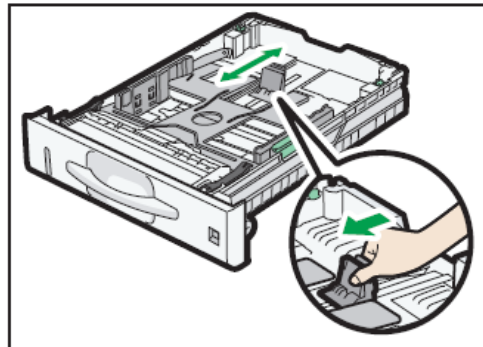
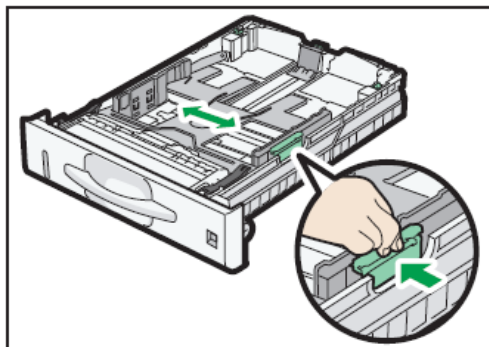
- If the wrinkles appear on the BOTTOM of the envelopes:



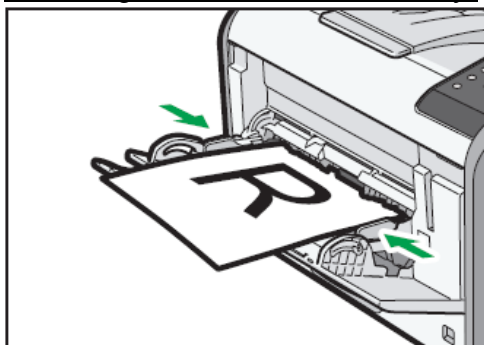
**6 Adjust the Paper Guides**

Slide the paper guides and make sure that their positions fit to the envelope size.

- If loading into the STANDARD Tray (Tray 1):



- If loading onto the BYPASS Tray:



## 7 Select the Correct Paper Type in the Printer Driver and Print

Right before sending a print job from the printer driver, confirm that the paper type in the printer driver is set in accordance with the weight of the actual (the loaded) envelopes.

- Check the paper weight of the actual (the loaded) envelopes
- Find the paper weight No. from the table below.

No.	Paper weight
1	52–65 g/m <sup>2</sup> (14–18 lb. BOND)
2	66–74 g/m <sup>2</sup> (18–20 lb. BOND)
3	75–90 g/m <sup>2</sup> (20–24 lb. BOND)
4	91–105 g/m <sup>2</sup> (24–28 lb. BOND)
5	106–130 g/m <sup>2</sup> (28–35 lb. BOND)
6	131–162 g/m <sup>2</sup> (35 lb. BOND–90 lb. INDEX)

- Find the paper type from the table below in accordance with the paper weight No. which was identified above.

Paper type	Paper weight No.	Paper type	Paper weight No.
Thin Paper	1	Special Paper 1	_*1
Plain Paper	2	Special Paper 2	_*1
Plain Paper 2	3	Letterhead Paper	1 to 6
Middle Thick Paper	4	Preprinted Paper	2 to 4
Thick Paper 1	5	Transparency	_*1
Thick Paper 2	6	Label Paper	3 to 5
Recycled Paper	2 to 4	Envelope	3 to 6
Color Paper	2 to 4		

### Note:

If the actual weight of the envelope is identified, then select the paper type in accordance with the exact paper weight No. For example, if the weight of the envelope is 120g/m<sup>2</sup>, then select “Thick Paper 1” instead of “Envelope”

## 8 Change SP Values If Wrinkles Still Appear

If wrinkles still appear even after all the steps above, then change the values of SPs as follows:

- Reduce the value of SP 1-105 in accordance with the paper type selected in step 7 above. This is because one of the causes of wrinkles is a fusing temperature that is too high.

1105	[PrintTargetTemp] Adjusts the target fusing temperature for each paper type. "C" indicates the center of the roller.		
1-105-001	C: Plain1	E*	[140 to 205 / 178 / 1 deg/step]
1-105-003	C: Plain2	E*	[140 to 205 / 183 / 1 deg/step]
1-105-005	C: Thick1	E*	[140 to 205 / 192 / 1 deg/step]
1-105-007	C: Thick2	E*	[140 to 230 / 191 / 1 deg/step]
1-105-011	C: Thin	E*	[140 to 205 / 168 / 1 deg/step]
1-105-013	C: Envelope	E*	[140 to 230 / 205 / 1 deg/step]
1-105-015	C: Card	E*	[140 to 205 / 195 / 1 deg/step]
1-105-017	C: Transparency	E*	[140 to 205 / 173 / 1 deg/step]
1-105-019	C: Special	E*	[140 to 205 / 185 / 1 deg/step]

Note:

Reduce 3~5 deg. gradually. If reduced too much, then offset image may appear as a side effect.

- Reduce the value of SP1-113-001. As mentioned above, one of the causes for wrinkles is a fusing temperature that is too high. This SP can change the fuser rotation period before printing envelopes. By reducing the value, the fuser rotation period will be reduced, by which envelopes can be printed with a lower fusing temperature than the target fusing temperature.

1113	[EnvFusCond]		
1-113-001	PrePriRotTime	E*	[500 to 60000 / 7000 / 500msec / step]

Note:

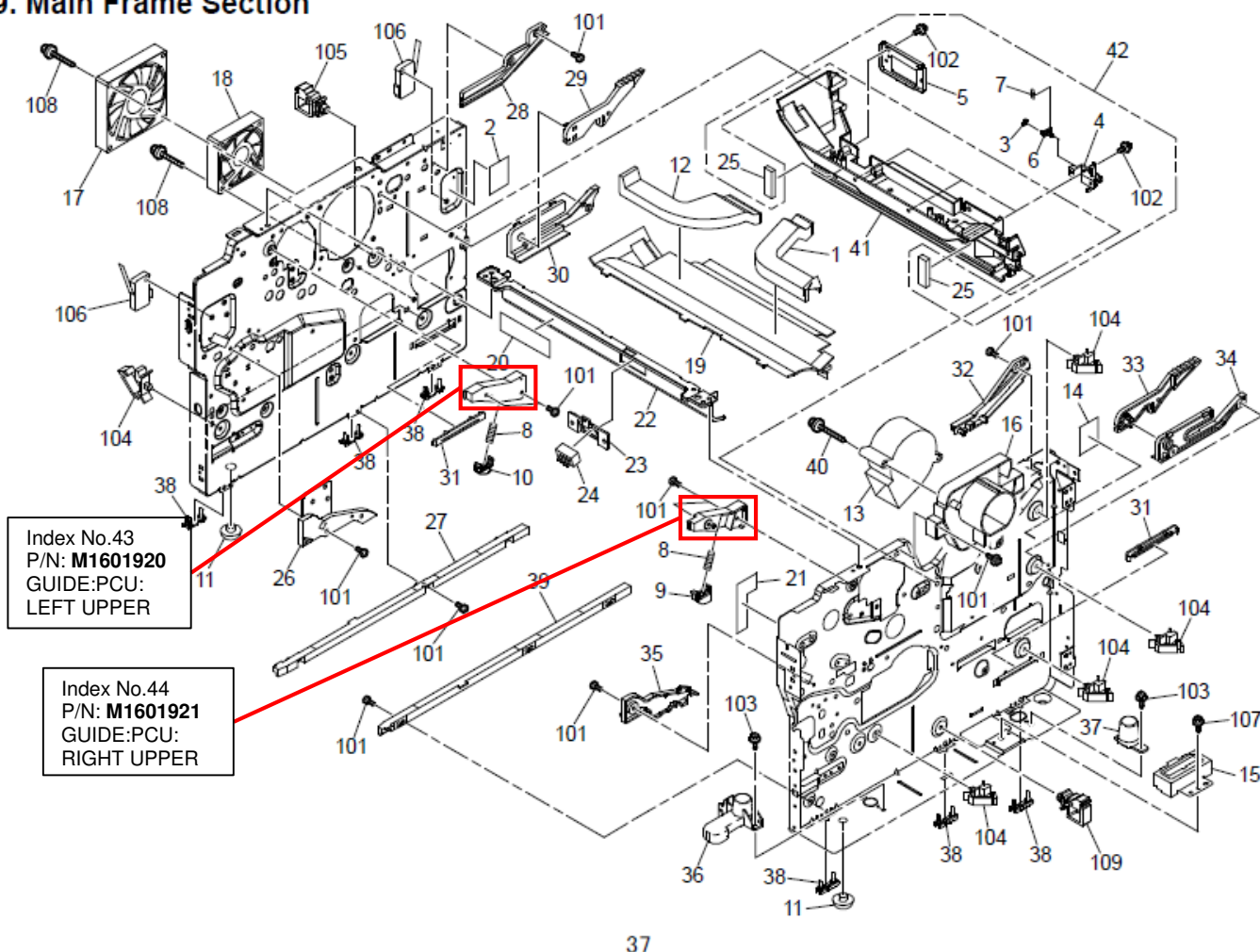
Reduce in steps of 500msec gradually. If reduced too much, then offset image may appear as a side effect.

Model: Gim-P1c/dM		Date:12-Jan-16	No.: RM158034
Subject: Parts Catalog Correction - New Guides in the Main Frame		Prepared by: Norito Yasuda	
From: 1st Tech Service Sec. 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

The following parts were registered as service parts.

Old part number	New part number	Description	Q'ty	Page	Index	Note
-	M1601920	GUIDE:PCU:LEFT UPPER	1	38	43	
-	M1601921	GUIDE:PCU:RIGHT UPPER	1	38	44	

## 19. Main Frame Section





Model: Gim-P1/M1		Date: 9-May-16	No.: RM158035
Subject: Troubleshooting: Paper Multi Feed		Prepared by: K.Nakano	
From: Group 2, 1st Field Quality Management Dept.			
Classification:	<input checked="" 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 checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## SYMPTOM

Multi-feeds occur under the following conditions:

- Paper is loaded in the tray before the tray is empty, or
- The paper used has relatively high surface friction characteristics

## CAUSE

- Oil from the hands of the operator is absorbed by the paper when loaded. This creates high friction between the bottom sheet of this stack and the top sheet of the stack already in the tray. As a result, these sheets tend to stick together when fed.
- Paper whose surface friction characteristics are relatively high will tend to stick together when fed.

## SOLUTION

Install Spring #1 mentioned below. If this is not successful, install Spring #2.

### Note:

- These springs work to increase the paper separation pressure.
- The pressure of the spring already installed is about 3.1N. When Spring #1 or #2 is installed, paper non-feeds may occur or the sound of the pick-up roller picking the paper may be audible.

### Spring #1

P/N	Description	Pressure	Color
M1589002	SEPARATION SPRING 4N GIMLET	4N	Silver

### Spring #2

P/N	Description	Pressure	Color
M1589003	SEPARATION SPRING 5N GIMLET	5N	Black

Model: Gim-P1c/dM		Date: 21-Oct-16	No.: RM158036
Subject: Manual Correction - SP Mode		Prepared by: Y. Gaman	
From: 2nd 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 Correction

Appendices > SP Mode Tables > Main SP Tables-5 > SP5-XXX (Mode)

The default value of SP 5-305-101 was corrected from '0' to '1'.

5305	[Auto Off Set] <b>DFU</b> Auto Off Limit Set		
5-305-101	Auto Off Limit Set	C*	[0 to 1/1/1/step]

\* DFU: Design or Factory Use

## NOTE:

The default value appears as '0' in the SP mode, but the actual value is set to '1' as it is a factory default value.

DO NOT change this setting.

Model: Gim-P1cRS(Europe)		Date: 15-Nov-16	No.: RM158037
Subject: Service document revision for M0AP		Prepared by: Y. Gaman	
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 checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Gim-P1cRS (M0AP)** was added as a new model to the Gim-P1 series, targeting only the EU market.

Due to this addition, the Service Manual and TTP for M158 were revised. The description “M158” was changed to “**M158/M0AP**” in both of these documents.

Note that the following components are unique to M0AP and are not interchangeable with other models:

- Toner cartridge
- PCDU
- Operation panel
- PCB

Revisions made to the Field Service Manual and Parts Catalog are as follows.

## - Field Service Manual revision

### P.17 Consumables for M0AP (User Maintenance Model)

Item	Machine Code	Remarks	Yield
Print Cartridge SP 400HE	M946-27	NEW	10,000 pages (ISO)
Print Cartridge SP 400E	M947-27	NEW	5,000 pages (ISO)
Print Cartridge SP 400LE	M948-27	NEW	2,500 pages (ISO)
Photo Conductor Unit SP 400	M906-04	NEW	20,000 pages (3P/J)

Model: Gim-P1cRS(Europe)

Date: 15-Nov-16

No.: RM158037

**P.22 Other**

	Yield – Condition		Compatibility		
	Yield (Page)	Condition	User Maintenance Model		Service Maintenance Model
			M158	M0AP	M159
Extra High Yield Toner for M158	12,000	ISO	Available	N/A	N/A
High Yield Toner for M158	6,000	ISO	Available	N/A	N/A
Low Yield Toner for M158	3,000	ISO	Available	N/A	N/A
Extra High Yield Toner for M0AP	10,000	ISO	N/A	Available	N/A
High Yield Toner for M0AP	5,000	ISO	N/A	Available	N/A
Low Yield Toner for M0AP	2,500	ISO	N/A	Available	N/A
Toner for Service Maintenance Model	10,400	6%, 3P/J	N/A	N/A	Available
Standard PCDU for M158	20,000	3P/J	Available	N/A	N/A
Standard PCDU for M0AP	20,000	3P/J	N/A	Available	N/A
PCDU for Service Maintenance Model	40,000	3P/J	N/A	N/A	Available

**P.24 Accessory Check (M158/M0AP)**

Description	Q'ty		
	-17	-21	-27
Starter Toner			
User Maintenance Model (M0AP) : 3,000 pages	-	-	1

Model: Gim-P1cRS(Europe)

Date: 15-Nov-16

No.: RM158037

**- Parts Catalog revision (Service parts for M0AP)**

Section	P/N	Description	Page	Index
Operation Panel	M0AP1401	OPERATION PANEL:RS:ASS'Y	6	1
Electrical Components	M0AP5011	PCB:BCU:RS:ASS'Y	36	3

Model: Gim-P1c (Taiwan)		Date: 30-Nov-16	No.: RM158038
Subject: Service document revision for Taiwan		Prepared by: Y. Gaman	
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 checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**M158-19** was added to the Gim-P1c, targeting only the Taiwan market (TWN).

Due to this addition, the Service Manual and Parts Catalog for M158 were revised.

Note that the following components are unique to M158-19:

- Toner cartridge
- PCDU
- Maintenance kit
- Operation panel
- Fusing Unit
- Electrical components

Revisions made to the Field Service Manual and Parts Catalog are as follows.

## - Field Service Manual revision

P.17 Consumables (unique to M158-19)

Item	Machine Code	Remarks	Yield
Print Cartridge SP 4500HS	M901-20 (TWN)	NEW	12,000 pages (ISO)
Print Cartridge SP 4500S	M902-20 (TWN)	NEW	6,000 pages (ISO)
Print Cartridge SP 4500LS	M903-20 (TWN)	NEW	3,000 pages (ISO)
Photo Conductor Unit SP 4500	M906-17 (TWN)	NEW	20,000 pages (3P/J)
Maintenance Kit SP 4500	M907-19 (TWN)	NEW	-

Model: Gim-P1c (Taiwan)	Date: 30-Nov-16	No.: RM158038
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- **Parts Catalog revision (Service parts unique to M158-19)**

Section	P/N	Description	Page	Index
Operation Panel	M1581403	OPERATION PANEL:TWN:ASS'Y	6	1
Electrical Components	AZ230267	POWER SUPPLY UNIT:DOM/NA:674.6W	36	3
Fusing Section 1	M1604019	FUSING UNIT:TWN	24	1
	M1604219	HEATER:820W:107V		20



**Reissued: 22-May-19**

Model: Gim-P1c/dM	Date: 9-Dec-16	No.: RM158039c
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## RTB Reissue

The items in ***bold italics*** were changed or added.

Subject: Field Modification Announcement for PCDU Line (Feed dir.) due to abnormal substance from intake fan.		Prepared by: Y. Tamaoka	
From: Overseas Field Info Sec., OP FQM Dept., QAC			
Classification:	<input type="checkbox"/> Troubleshooting	<input checked="" type="checkbox"/> Part information	<input checked="" type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input checked="" type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (       )	<input type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## SYMPTOM

Black line or white line appears on print at feeding direction along with toner dirt on charge cleaning roller at the line position.

Device	SP-4000	Serial No.	PC/Workstation	Processor (MHz)	Serial/PCI	OS	Operating System / Service Pack
1	SP-4000-1	1	SP-4000-1	1	SP-4000-1	1	1
2	SP-4000-2	2	SP-4000-2	2	SP-4000-2	2	2
3	SP-4000-3	3	SP-4000-3	3	SP-4000-3	3	3
4	SP-4000-4	4	SP-4000-4	4	SP-4000-4	4	4
5	SP-4000-5	5	SP-4000-5	5	SP-4000-5	5	5
6	SP-4000-6	6	SP-4000-6	6	SP-4000-6	6	6
7	SP-4000-7	7	SP-4000-7	7	SP-4000-7	7	7
8	SP-4000-8	8	SP-4000-8	8	SP-4000-8	8	8
9	SP-4000-9	9	SP-4000-9	9	SP-4000-9	9	9
10	SP-4000-10	10	SP-4000-10	10	SP-4000-10	10	10
11	SP-4000-11	11	SP-4000-11	11	SP-4000-11	11	11
12	SP-4000-12	12	SP-4000-12	12	SP-4000-12	12	12
13	SP-4000-13	13	SP-4000-13	13	SP-4000-13	13	13
14	SP-4000-14	14	SP-4000-14	14	SP-4000-14	14	14
15	SP-4000-15	15	SP-4000-15	15	SP-4000-15	15	15
16	SP-4000-16	16	SP-4000-16	16	SP-4000-16	16	16
17	SP-4000-17	17	SP-4000-17	17	SP-4000-17	17	17
18	SP-4000-18	18	SP-4000-18	18	SP-4000-18	18	18
19	SP-4000-19	19	SP-4000-19	19	SP-4000-19	19	19
20	SP-4000-20	20	SP-4000-20	20	SP-4000-20	20	20
21	SP-4000-21	21	SP-4000-21	21	SP-4000-21	21	21
22	SP-4000-22	22	SP-4000-22	22	SP-4000-22	22	22
23	SP-4000-23	23	SP-4000-23	23	SP-4000-23	23	23
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47	SP-4000-47	47	SP-4000-47	47	SP-4000-47	47	47
48	SP-4000-48	48	SP-4000-48	48	SP-4000-48	48	48
49	SP-4000-49	49	SP-4000-49	49	SP-4000-49	49	49
50	SP-						

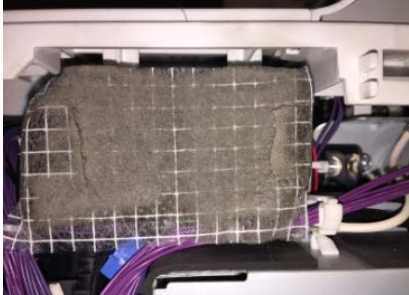


Reissued: 22-May-19

Model: Gim-P1c/dM	Date: 9-Dec-16	No.: RM158039c
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## CAUSE

1. A foreign substance enters the machine via intake fan.



2. Paper dust accumulates inside the paper path.

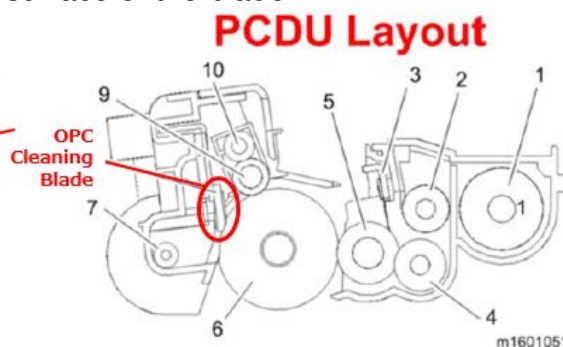
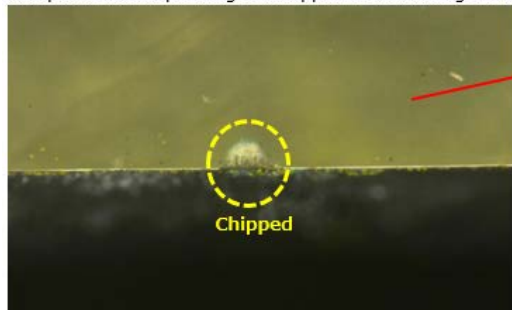


3. A foreign substance adheres to the paper loaded in the tray and on the bypass.



Paper dust or other foreign substance adheres to the drum, gets caught between the drum and cleaning blade, and/or chips the surface of the blade.

Sample: microscope image of chipped OPC cleaning blade



At such the location, the cleaning blade cannot clean toner out from PCDU, causing black line on print images. Gradually the uncleaned toner transfers to charge roller and charge cleaning roller. When it comes to certain level, the charge roller cannot charge sufficiently, causing white line on print images.

Reissued: 22-May-19

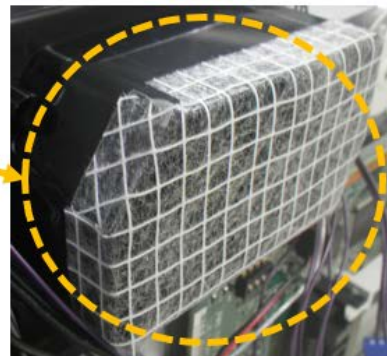
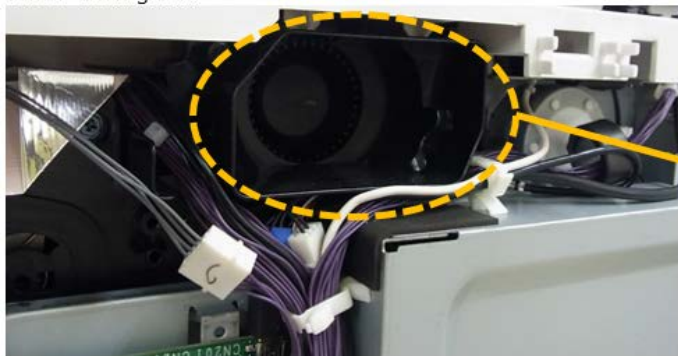
Model: Gim-P1c/dM	Date: 9-Dec-16	No.: RM158039c
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## SOLUTION

### To the Production Line

A filter sheet is added to prevent the entry of abnormal substance coming from intake fan.

PCDU Cooling Fan:



Old P/N	New P/N	Description	Q'ty	I/C
-	M1581241 (M1599900)*	FILTER:DUST:P1CD	1	-

\* For field modification only

### Cut-In Serial number

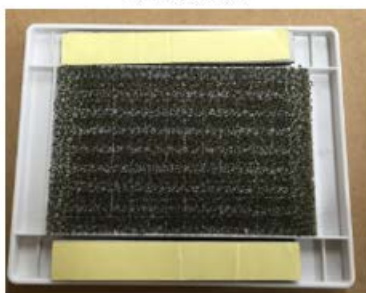
P1c : M158-17/-19/-21/-27 : T576HA00001~  
P1dM : M159-17/-27 : T586HA00001~  
P1cRS : M0AP-27 : Y686HA00001~

### To the Field

<Front side>



<Back side>



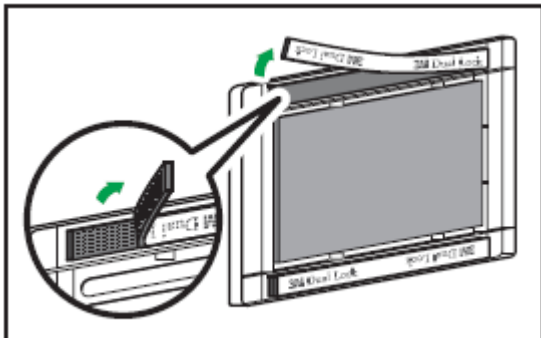
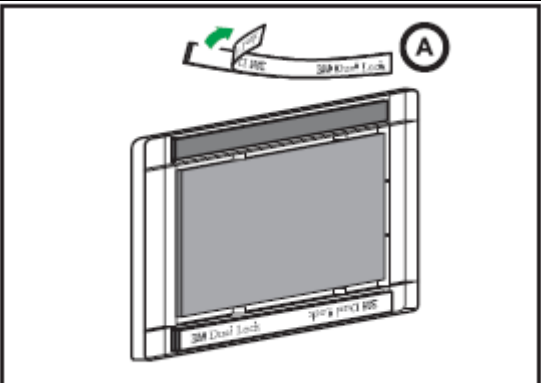
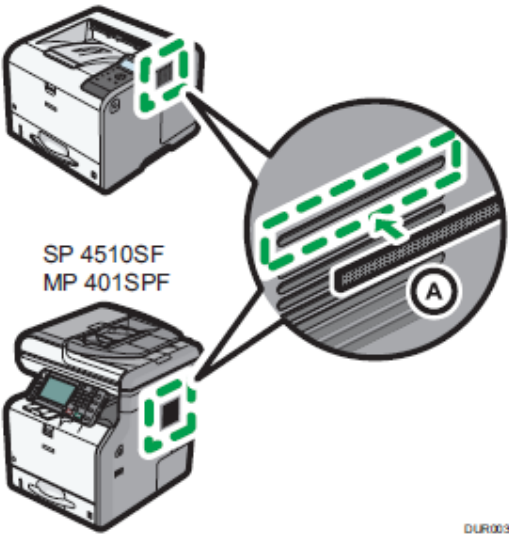
<External Appearance>



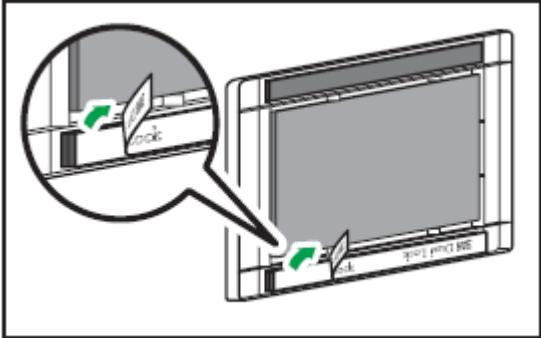
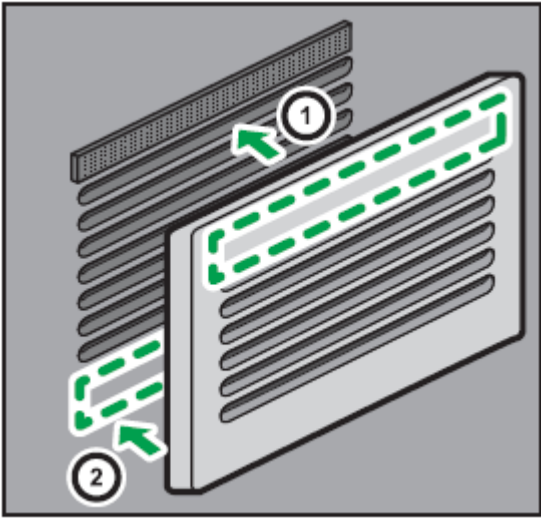
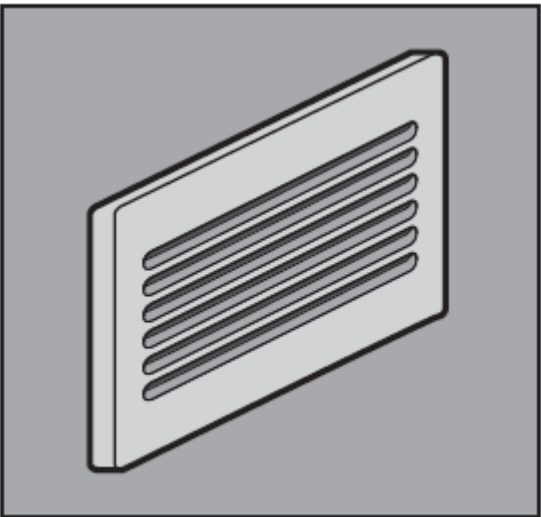
Old P/N	New P/N	Description	Q'ty	I/C
-	<b>M1589023</b> M1589900	FILTER UNIT	1	-

Remove any paper dust or other foreign substance from the paper path, paper loaded in the tray, and paper tray.

**Reissued: 22-May-19**
**Model: Gim-P1c/dM**
**Date: 9-Dec-16**
**No.: RM158039c**
**INSTALLATION PROCEDURE**

Step	Detail	Reference
1	Take off the Velcro.	 <p>Diagram showing the removal of Velcro from the right cover. A circular inset shows a close-up of the Velcro being peeled off. The main diagram shows the right cover with the Velcro being removed from the top edge.</p> <p>DIR001</p>
2	Peel off the both side tape on the Velcro (A) taken off in Step 1.	 <p>Diagram showing the removal of the side tape from the Velcro (A) taken off in Step 1. A circular inset shows a close-up of the side tape being peeled off. The main diagram shows the right cover with the side tape being removed from the top edge.</p> <p>DIR002</p>
3	Paste (A) on right above the inlet onto the right cover.	<p>SP 4510DN SP 4520DN</p>  <p>Diagram showing the installation of the side tape (A) onto the right cover. A circular inset shows a close-up of the side tape being pasted onto the right cover. The main diagram shows the right cover with the side tape being pasted onto the top edge.</p> <p>SP 4510SF MP 401SPF</p> <p>DIR003</p>

Reissued: 22-May-19

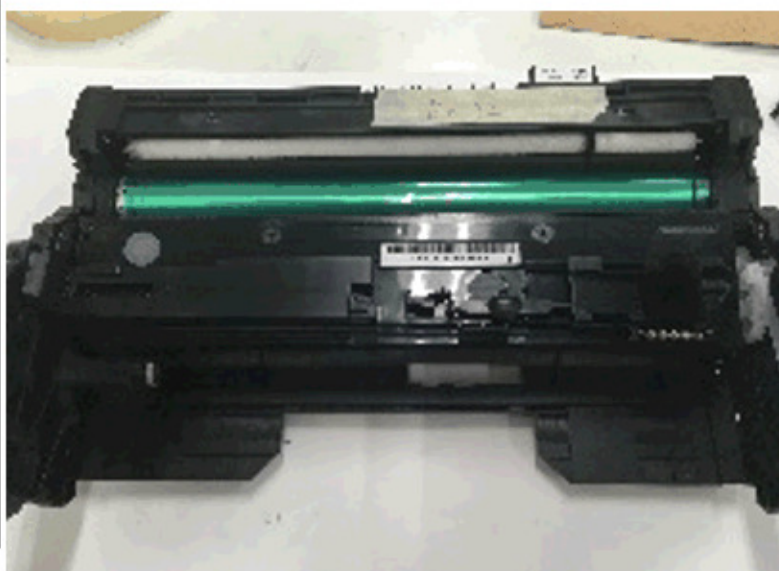
Model: Gim-P1c/dM		Date: 9-Dec-16	No.: RM158039c
4	Peel off the both side tape on the other Velcro.	 <p>DUR007</p>	
5	<ol style="list-style-type: none"> <li>1. Set the top side of Velcro.</li> <li>2. Paste the both side tape on the bottom side of Velcro.</li> </ol>	 <p>DUR004</p>	
6	Confirm a filter fully covers the inlet.	 <p>DUR005</p>	



Model: Gim-P1c/dM		Date: 9-Dec-16	No.: RM158040
Subject: Troubleshooting for PCDU Line (Feed dir.) due to abnormal substance from intake fan.		Prepared by: K. Nakano	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" 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 checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## SYMPTOM

Black line or white line appears on prints in the feeding direction along with toner on the charge cleaning roller at the line position.

[illegible]

Model: Gim-P1c/dM

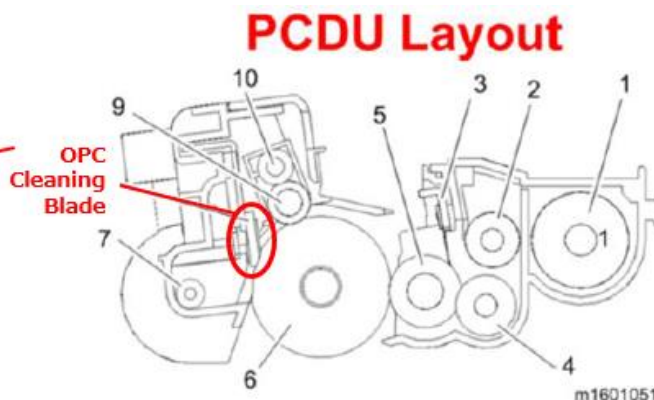
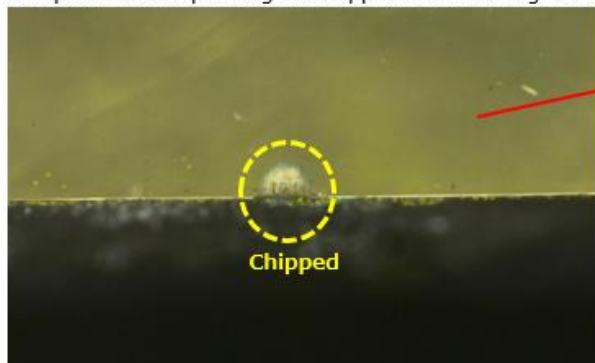
Date: 9-Dec-16

No.: RM158040

## CAUSE

Abnormal substance comes inside from the intake fan, then it adheres on the drum. Then the abnormal substance which adheres to the drum is caught and/or chips the cleaning blade.

Sample: microscope image of chipped OPC cleaning blade

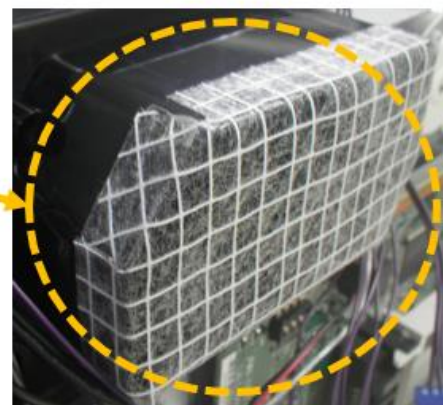


At such a location, the cleaning blade cannot clean toner out from the PCDU, causing black lines on prints. Gradually this toner transfers to the charge roller and charge cleaning roller. When it comes to a certain level, the charge roller cannot charge sufficiently, causing white lines on prints.

## SOLUTION

A filter sheet is added to prevent the entry of abnormal substances coming from the intake fan.

PCDU Cooling Fan:



Old P/N	New P/N	Description	Q'ty	I/C
-	M1581241	FILTER:DUST:P1CD	1	-

### Cut-in serial numbers

P1c	: M158-17/-19/-21/-27	: T576HA00001~
P1dM	: M159-17/-27	: T586HA00001~
P1cRS	: M0AP-27	: Y686HA00001~


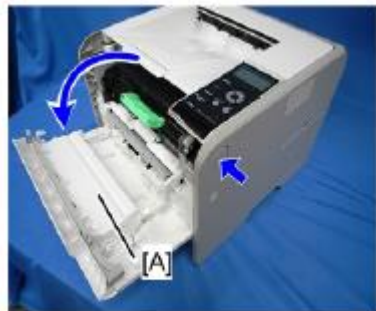




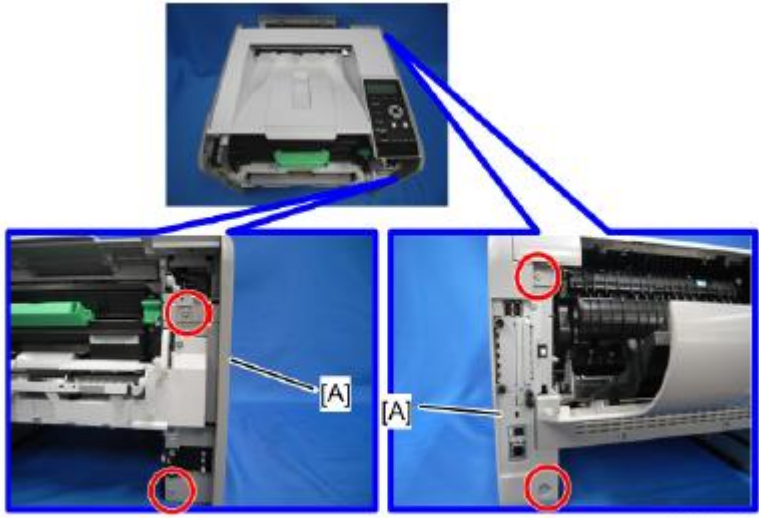



Model: Gim-P1c/dM

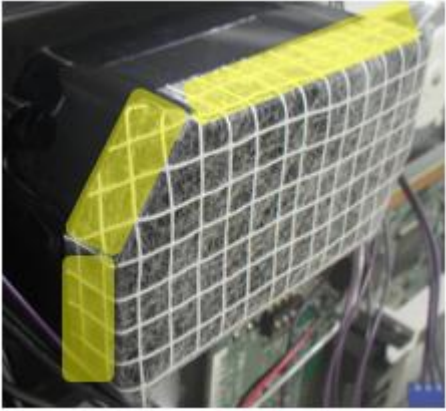
Date: 9-Dec-16

No.: RM158040

## INSTALLATION PROCEDURE

Step	Detail	Reference
1	Pull the paper feed tray [A] out completely to detach it.	 <p>m1600081</p>
2	Press the release button and open the front cover [A]	 <p>M158m0091</p>
3	Open the rear cover [A]	 <p>m158m0011</p>
4	Remove the memory cover [A]	 <p>m158m0092</p>

Model: Gim-P1c/dM	Date: 9-Dec-16	No.: RM158040
5	Remove the four screws [A].	 <p>m158m0009</p>
6	Release the hooks (refer to the picture for the location of the hooks) and remove the right cover.	 <p>m158m0008</p>
7	After removing the right cover, the fan can be found.	
8	<p>Attach the filter so that the duct is covered.</p> <p>Easier to attach if starting from the area highlighted in red.</p>	

Model: Gim-P1c/dM		Date: 9-Dec-16	No.: RM158040
9	Make sure there is no peeling or incomplete attachment at the edges highlighted in yellow.		
10	Re-attach the right cover, the memory cover, and the tray.	-	

Reissued: 11-Jan-17

Model: Gim-P1c HC model TE (for NA)	Date: 27-Dec-16	No.: RM158041a
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## RTB Reissue

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

Subject: Service document revision for HC model TE		Prepared by: Y. Gaman	
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 checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

**Gim-P1c HC model TE (M158-13)** was added to the Gim-P1c, targeting only the NA market.

Due to this addition, the Parts Catalog for M158 were revised.

Note that the following components are unique to M158-13:

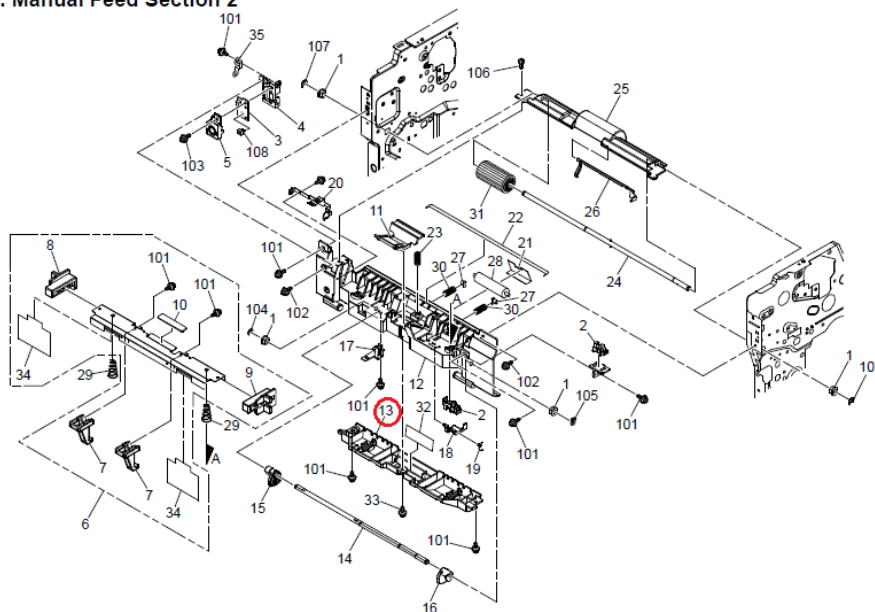
- Manual Feed Section
- Paper Feed

Revisions made to the Parts Catalog is as follows.

### - **Parts Catalog revision (Service parts unique to M158-13)**

Section	P/N	Description	Page	Index
Manual Feed Section 2	M1602759	GUIDE:SUB:STAY:MANUAL FEED:KEY-LOCK	14	13

7. Manual Feed Section 2

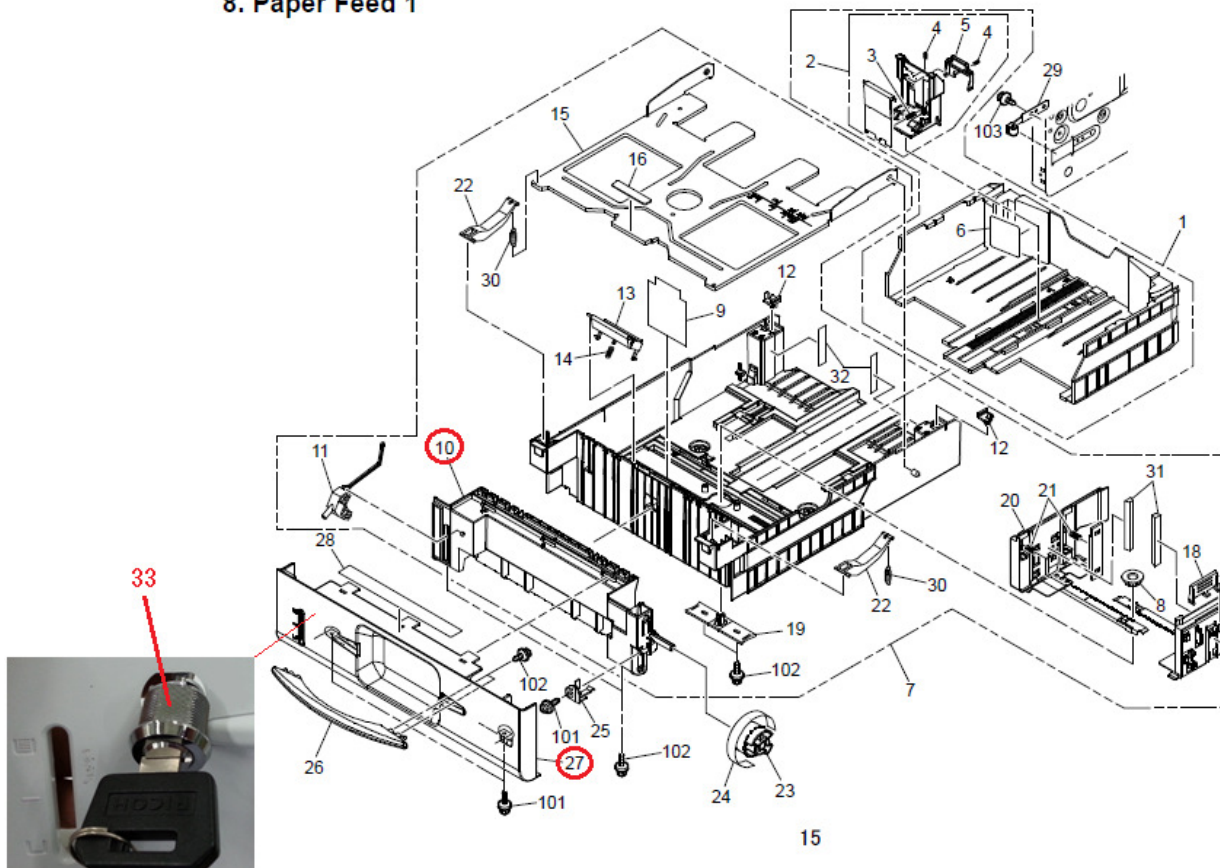


Reissued: 11-Jan-17

Model: Gim-P1c HC model TE (for NA)	Date: 27-Dec-16	No.: RM158041a
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Section	P/N	Description	Page	Index
Paper Feed 1	M1602699	COVER:PAPER TRAY:500 SHEET FEED UNIT:KEY-LOCK	16	27
	M1602659	GUIDE:PAPER TRAY:500 SHEET FEED UNIT:KEY-LOCK		10
	M3752570	KEY:OPTION TRAY		33

## 8. Paper Feed 1



Note: Two spare keys come with the part (M3752570).

**Reissued: 11-Jan-17**

Model: Gim-P1c HC model TE (for NA)	Date: 27-Dec-16	No.: RM158041a
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- **Remarks**

*The following firmware for Gim-P1c HC model TE (M158-13) is customized, to enable the "Security Tray Mode" feature.*

<i><b>Firmware</b></i>	<i><b>P/N</b></i>	<i><b>Version</b></i>
<b>System</b>	<b>M1585770G_CS13716</b>	<b>1.11S1</b>
<b>Printer</b>	<b>M1585756G_CS13716</b>	<b>1.11P1</b>
<b>Websys</b>	<b>M1585750F_CS13716</b>	<b>1.10H1</b>

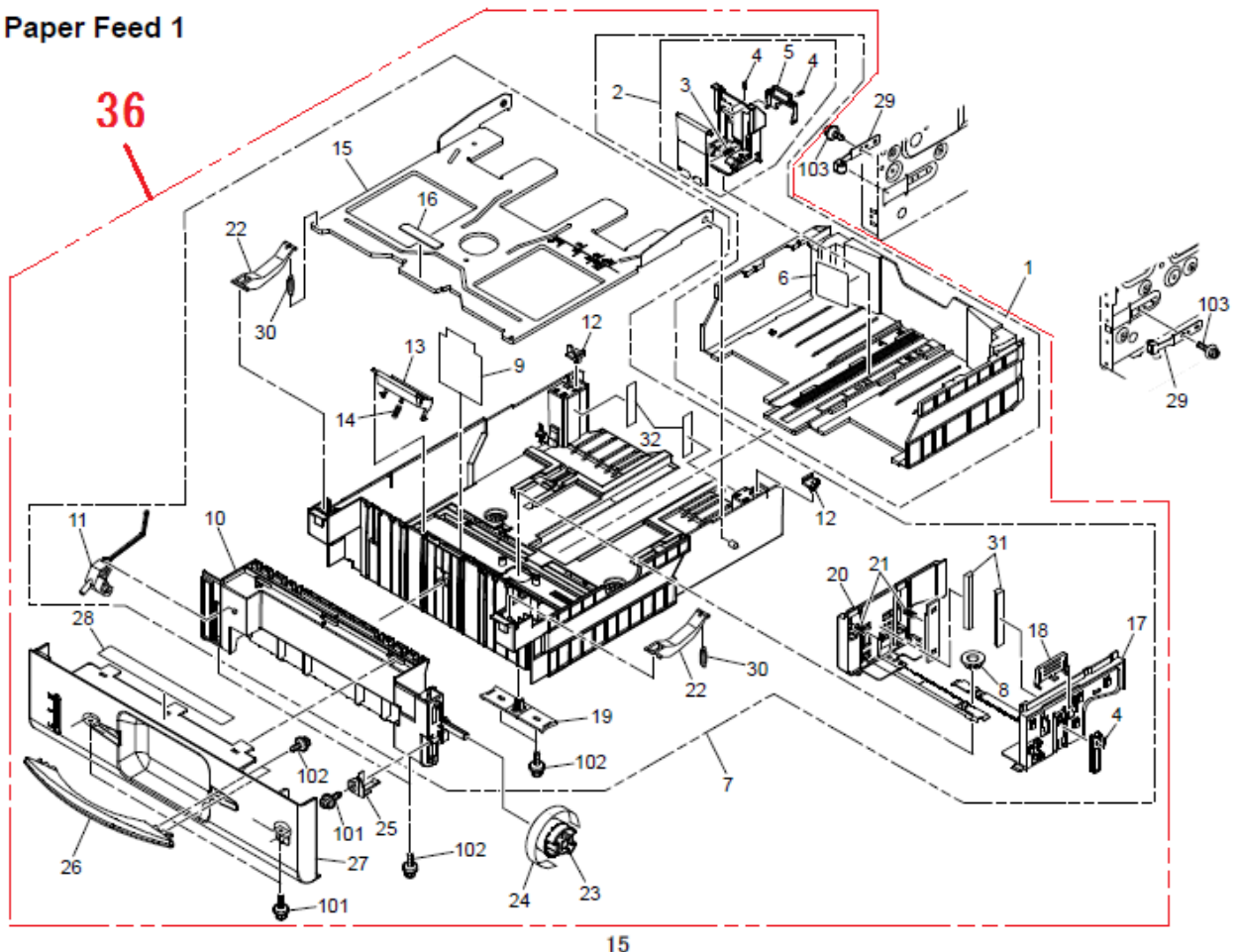


Model: Gim-P1c/dM		Date:12-Jan-17	No.: RM158042
Subject: Parts Catalog Correction - Paper Tray		Prepared by: Y. Gaman	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input checked="" type="checkbox"/> Part information	<input type="checkbox"/> 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

The following parts were registered as a service part.

Old part number	New part number	Description	Q'ty	Page	Index	Note
-	M1602507	PAPER TRAY:500 SHEET FEED UNIT:EU/AA/CHN	1	16	36	
-	M1602508	PAPER TRAY:500 SHEET FEED UNIT:NA	1	16	36	

## 8. Paper Feed 1

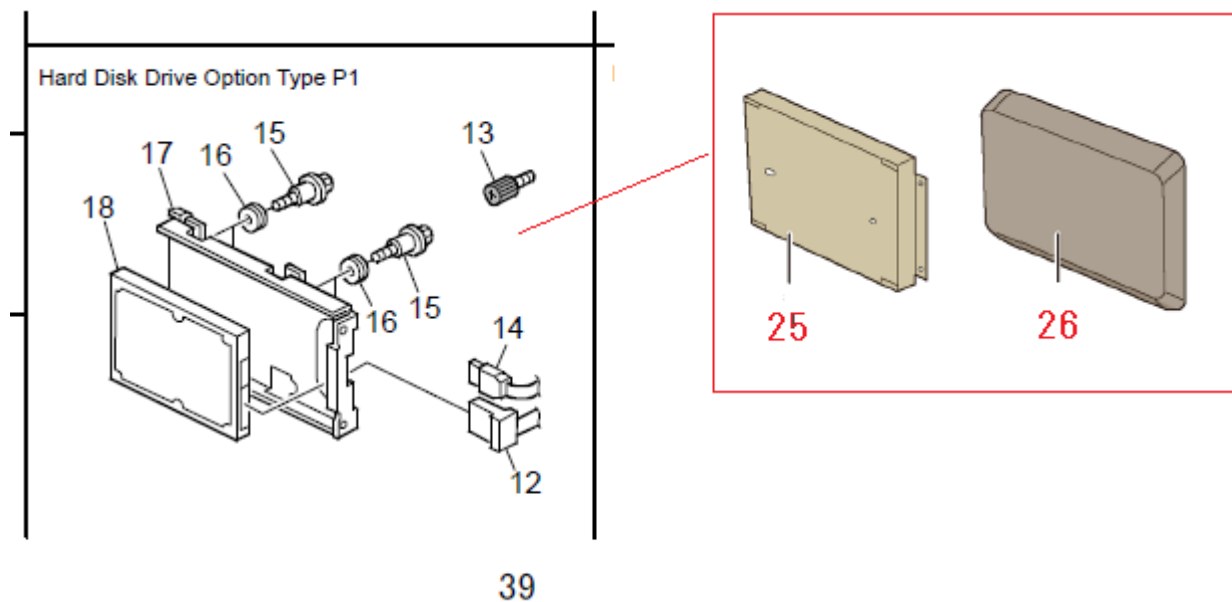




Model: Gim-P1c/dM		Date: 27-Jan-17	No.: RM158043
Subject: Parts Catalog Correction - HDD Option		Prepared by: Y. Gaman	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper 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

The following parts were registered as service parts.

Old part number	New part number	Description	Q'ty	Page	Index	Note
-	M1595514	COVER:HDD:OPTION:P1CD	1	40	25	
-	M1591225	COVER:RIGHT:HDD:P1CD	1	40	26	



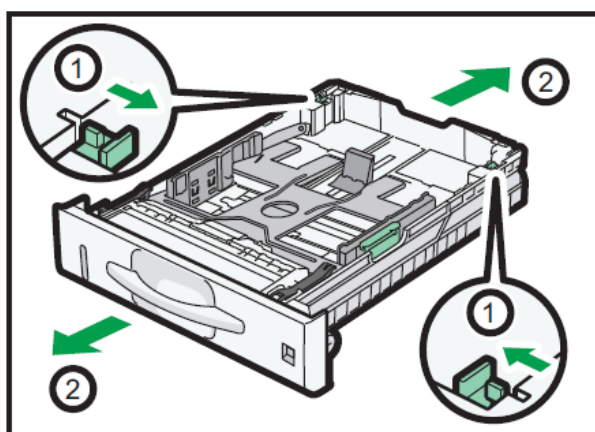
Model: Gim-P1c/dM		Date: 7-Feb-17	No.: RM158044
Subject: Troubleshooting for Paper No Feed		Prepared by: K.Nakano	
From: Printer Sec., MFP/P FQM Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Paper path <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 checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## SYMPTOM

“Paper No Feed” jam occurs (Jam Code: 3, 4, 5).

## CAUSE

- A) The end fence may be kicked a few notches back by the loaded paper if the fence is adjusted after the paper is loaded.
- B) The end fence may be pushed back when the paper is loaded if the catches (1) do not lock the tray extension.



CXC607

Model: Gim-P1c/dM

Date: 7-Feb-17

No.: RM158044

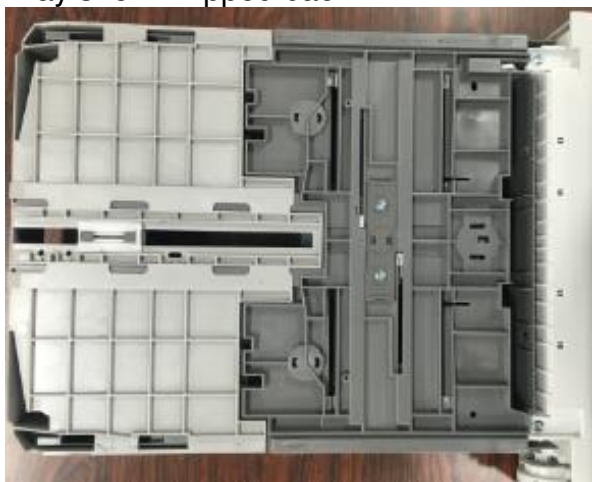
## SOLUTION

### For cause (A):

Advise the user to fix the position of the end fence **before** loading the paper (as mentioned in the Operator's Instructions). If the user uses only A4SEF, Letter SEF, or A5 SEF, then the end fence can be fixed in place using the following screw:

P/N	Description	Necessary Q'ty
04583010N	HEXAGON HEAD TAPPING SCREW:3X10	1

Tray shown flipped back:



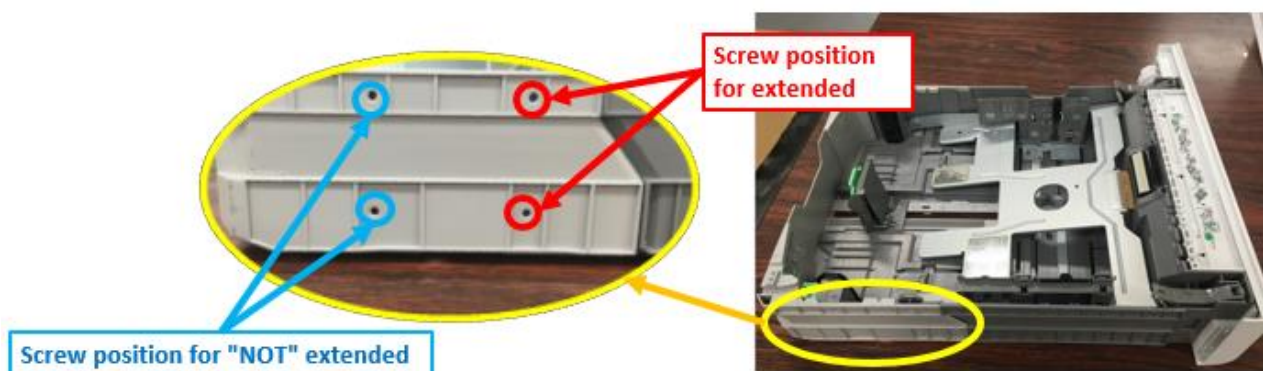
Options for fixing the end fence in place:



### For cause (B)

Advise the user to lock the catches and **NOT** to extend the tray when loading A4-SEF or smaller paper sizes (as mentioned in the Operator's Instructions). If the user uses only A4SEF or smaller paper sizes, then the catches can be fixed in place (both sides) using the following screws:

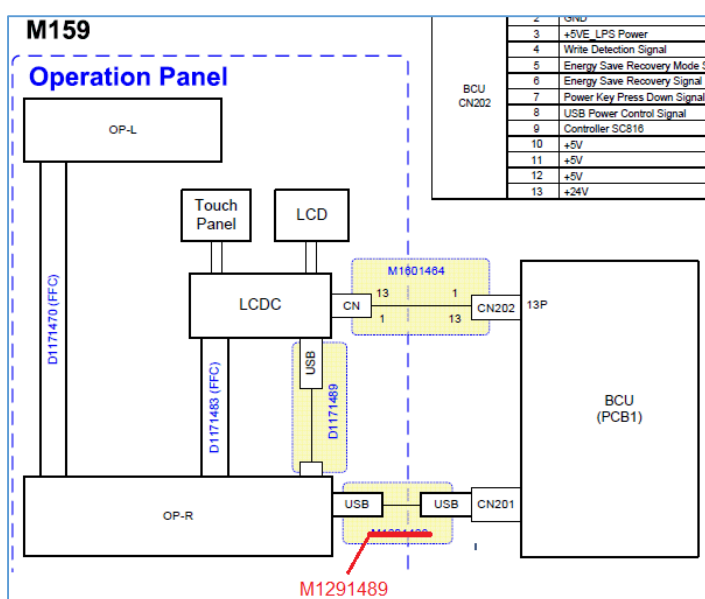
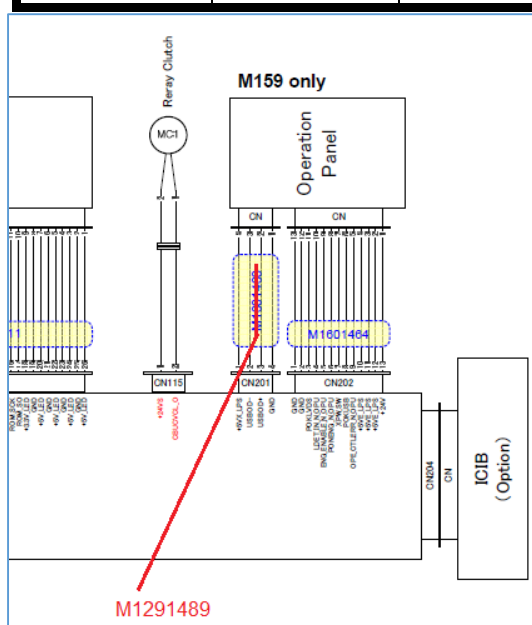
P/N	Description	Necessary Q'ty
04583010N	HEXAGON HEAD TAPPING SCREW:3X10	4



Model: Gim-P1dM		Date: 24-Feb-17	No.: RM158045
Subject: P-to-P diagram correction : USB cable		Prepared by: Y. Gaman	
From: 2nd 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 correct your part catalog as shown.

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M1601463	M1291489	CABLE:USB:TIP1:LCDC	1	-	-	-	



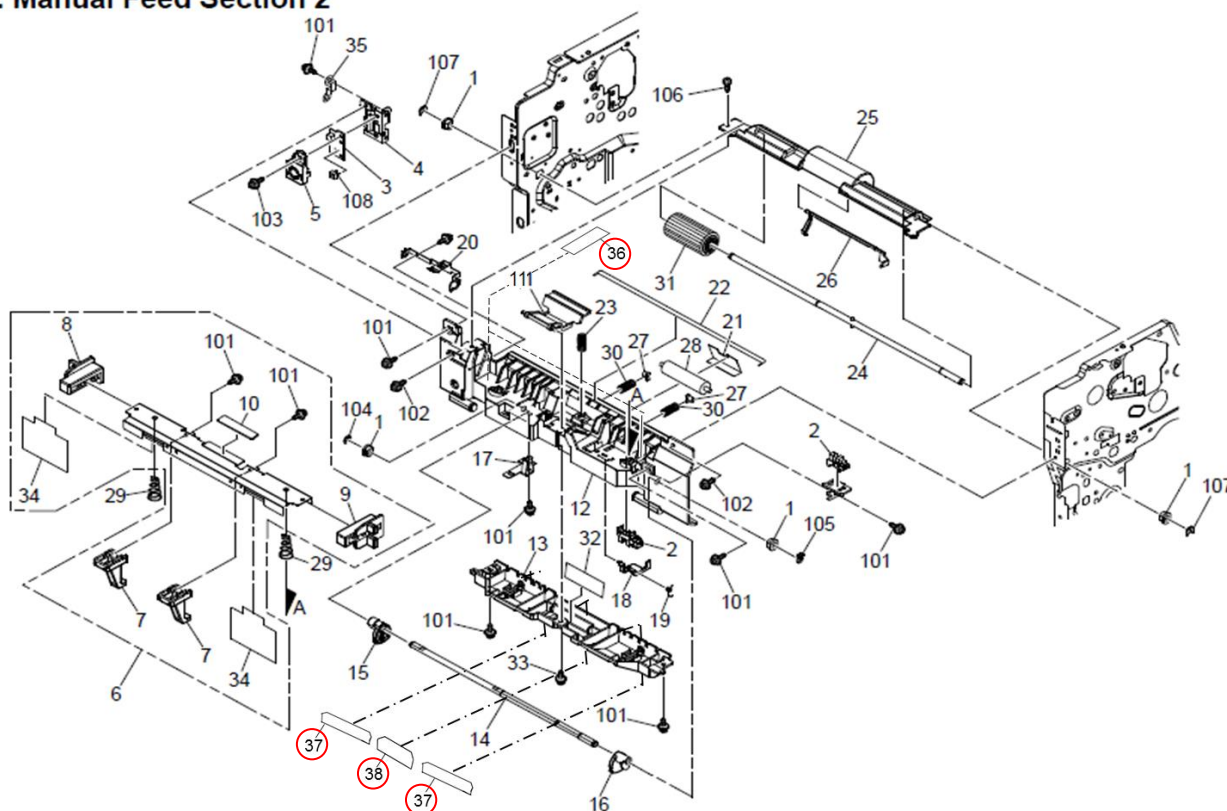
Model: Gim-P1 c/dM		Date: 31-Jul-17	No.: RM158046
Subject: Parts Catalog Correction		Prepared by: Taiga Itoh	
From: 1st Tech. Support Sec. Service Support Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> 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 following parts were registered as service parts.

**Reason:** To meet requests received from the field.

Old part number	New part number	Description	Q'ty	Page	Index	Note
-	M1602749	SHEET:GUIDE:MPT:LOWER	2	13	37	
-	M1602751	SHEET:ENTRANCE:MIDDLE:ROLLER	1	13	38	
-	M1602756	INSULATING SHEET:ENTRANCE:MF	2	13	36	

## 7. Manual Feed Section 2



Model: Gim-P1 c/dM		Date: 5-Sep-17	No.: RM158047
Subject: Part Catalog Corrcion :Drive section 1		Prepared by: Taiga Itoh	
From: 1st Tech. Support Sec. Service Support 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 following parts were registered as service parts.

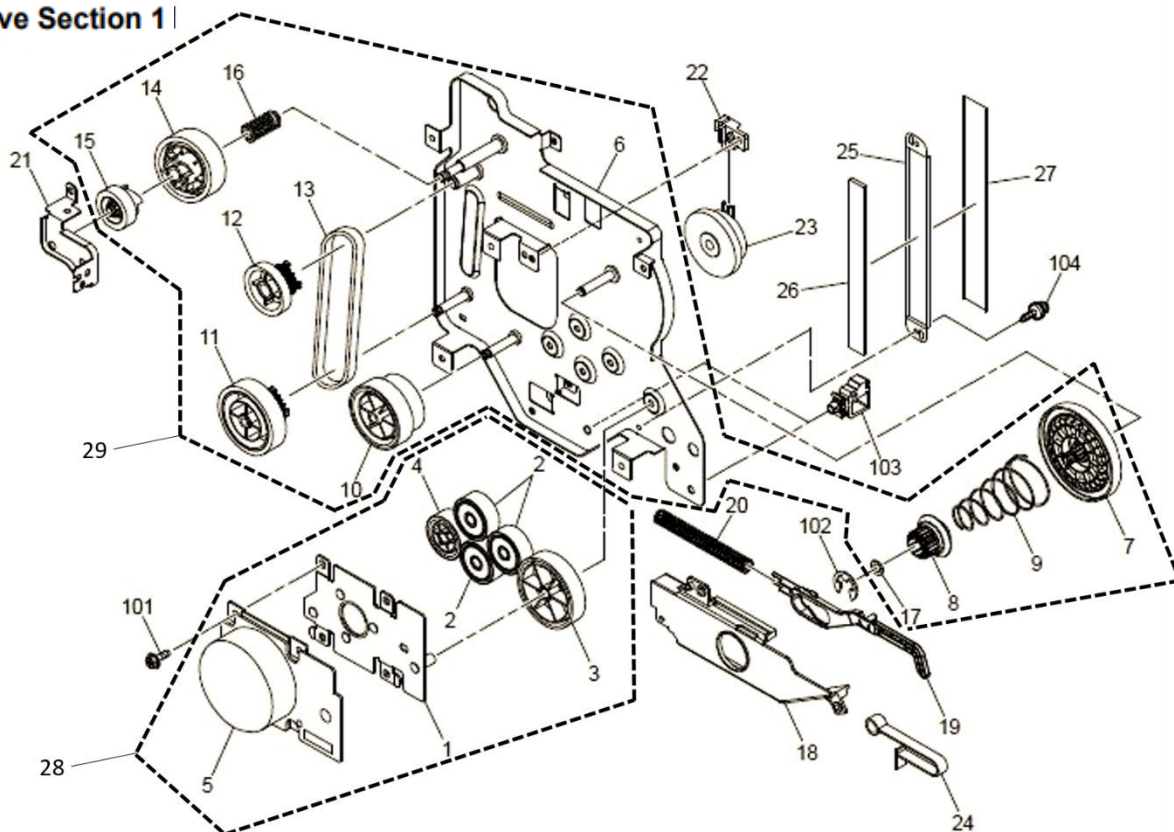
**Reason:** To meet requests received from the field.

Old part number	New part number	Description	Q'ty	Page	Index	Note
-	M0A00035	DC BRUSHLESS MOTOR:MF1.5:ASS'Y	1	31	28	
-	M1600036	DRIVE UNIT:MAIN:ASS'Y	1	31	29	

P/N M0A00035 is assy including parts from index 1 to 5.

P/N M1600036 is assy including parts from index 6 to 17.

## 16. Drive Section 1 |



Model: Gim-P1 c/dM		Date: 26-Sep-17	No.: RM158048
Subject: Service Manual revision		Prepared by: Taiga Itoh	
From: 1st Tech. Support Sec. Service Support 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

**Change/Reason:** Service Manual revision

Revised “toner cartridge” to ”PCDU” on 122 page of the service manual.

Before revision

7936	<b>[PCDU Log]</b> Displays the ID chip log data in the toner cartridge.
------	--



After revision

7936	<b>[PCDU Log]</b> Displays the ID chip log data in the <b>PCDU</b> .
------	---



Model: Gim-P1c		Date: 26-Jan-18	No.: RM158049
Subject: Service Manual Correction:SP3-098-001		Prepared by: Taiga Itoh	
From: 1st Tech. Support Sec. Service Support 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

**Change/Reason:** Providing an additional explanation to service manual

## Main SP Tables-3

### SP3-XXX (Process)

3098	[Days Before End] Switches the near end timing: days before end toner		
3-098-001	Toner	E*	[0 to 2 / 1 / 1/step] 0: earlier 1: normal 2: later

“**earlier**” means that you are prompted **7 days (959 pages)** before toner end.

“**normal**” means that you are prompted **5 days (685 pages)** before toner end.

“**later**” means that you are prompted **3 days (411 pages)** before toner end.

Model: Gim-P1dM		Date: 8-Feb-18	No.: RM158050
Subject: Parts Catalog Correction:HDD Hard Disk Drive Option Type P1			Prepared by: Taiga Itoh
From: 1st Tech. Support Sec. Service Support 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

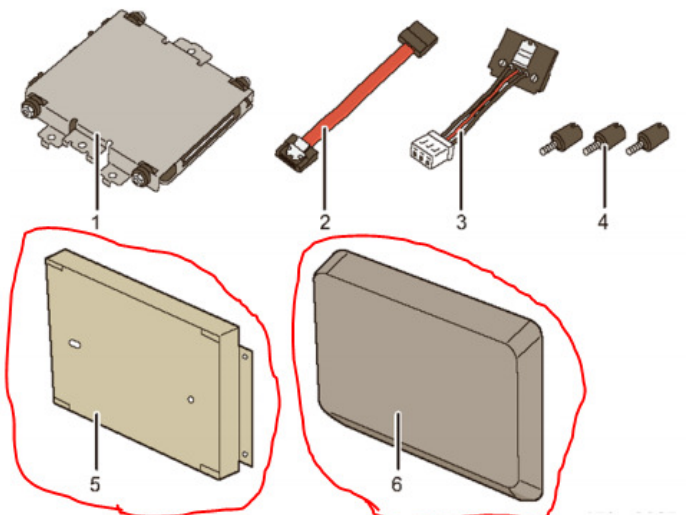
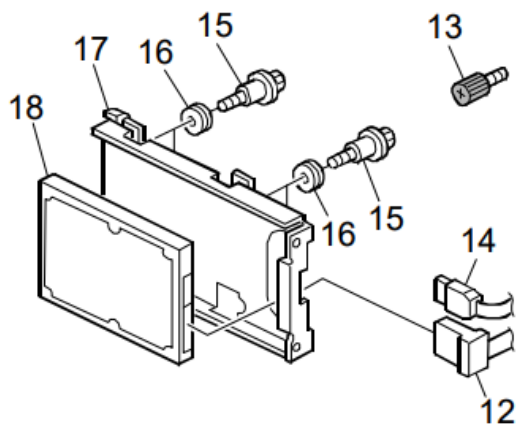
**Change:** Add service parts number to Part Catalog.

## Hard Disk Drive Option Type P1

### Component Check

No.	Description	Q'ty
1	Hard disk	1
2	CABLE:HDD:SATA:RED:102	1
3	CABLE:HDD:SATA:POWER_3P:70	1
4	KNOB SCREW:M3	2
5	Inner cover	1
6	Memory cover	1
-	RoHS Decal	1
-	LABEL:ROHS:DATE:40MM	1

Hard Disk Drive Option Type P1



No.	Part Number	Description	Q'ty
5	M1595514	COVER:HDD:OPTION:P1CD	1
6	M1591225	COVER:RIGHT:HDD:P1CD	1

Model: Gim-P1c/dM		Date: 16-May-18	No.: RM158051
Subject: Troubleshooting for PCDU Problems		Prepared by: K. Nakano	
From: Overseas Field Info Sec., OP/OS FQM Dept., QAC			
Classification:	<input checked="" 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 checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## SYMPTOMS

## Symptom #1

Even after applying a filter, black line still appears on print at feeding direction along with toner dirt on a drum and on a charge cleaning roller at the line position. An image sample follows:

[illegible]

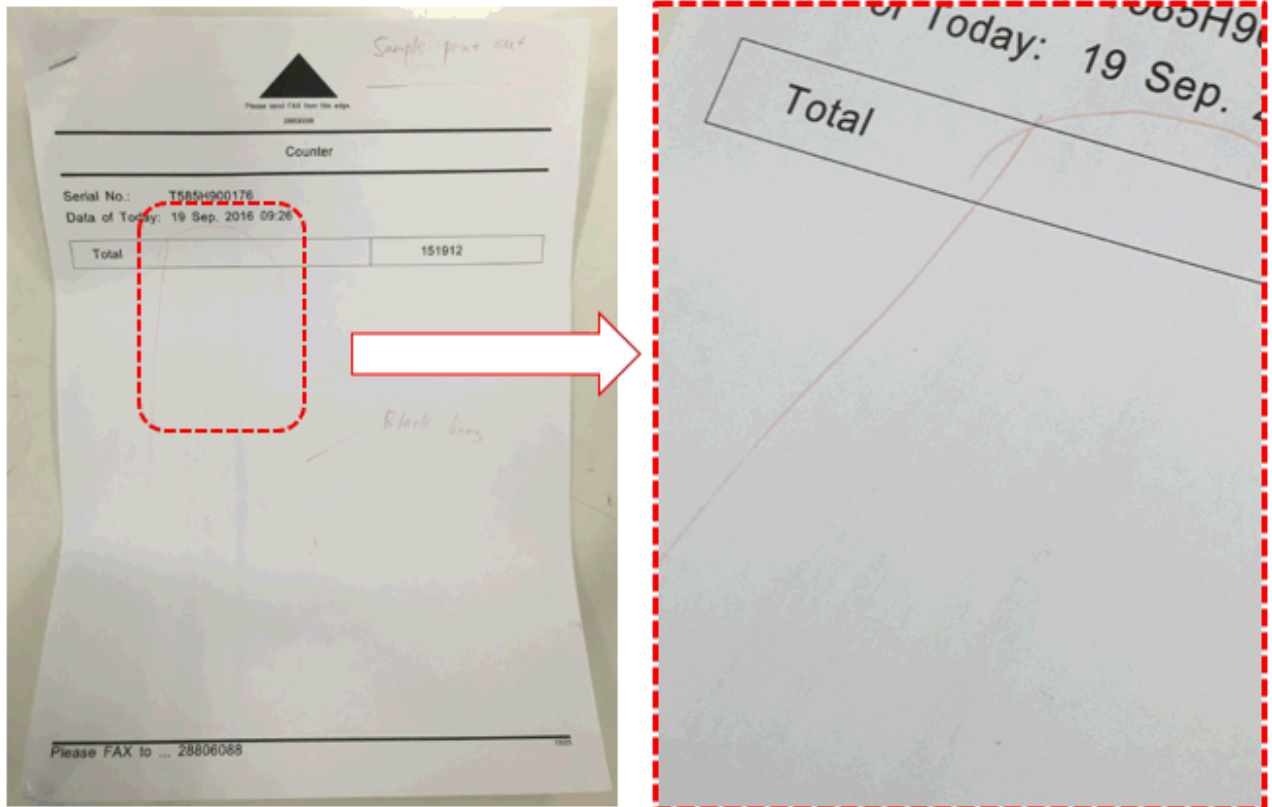
Model: Gim-P1c/dM

Date: 16-May-18

No.: RM158051

## Symptom #2

Streaky dirty background on print at feeding direction without toner dirt on a drum nor on a charge cleaning roller at the line position. An image sample follows:



## CAUSE

### About Symptom #1

Either of the origins as follows grows to "toner adherence" onto a drum surface.

- (1) Very tiny damage (some are 10 micron) onto a drum surface
- (2) Sticky abnormal substance (e.g. glue) onto a drum surface
- (3) Medaka (Silica, a component of toner, adheres onto a drum)

### About Symptom #2

Toner adherence onto Development Blade due to adherence of oil used in production line.

Model: Gim-P1c/dM

Date: 16-May-18

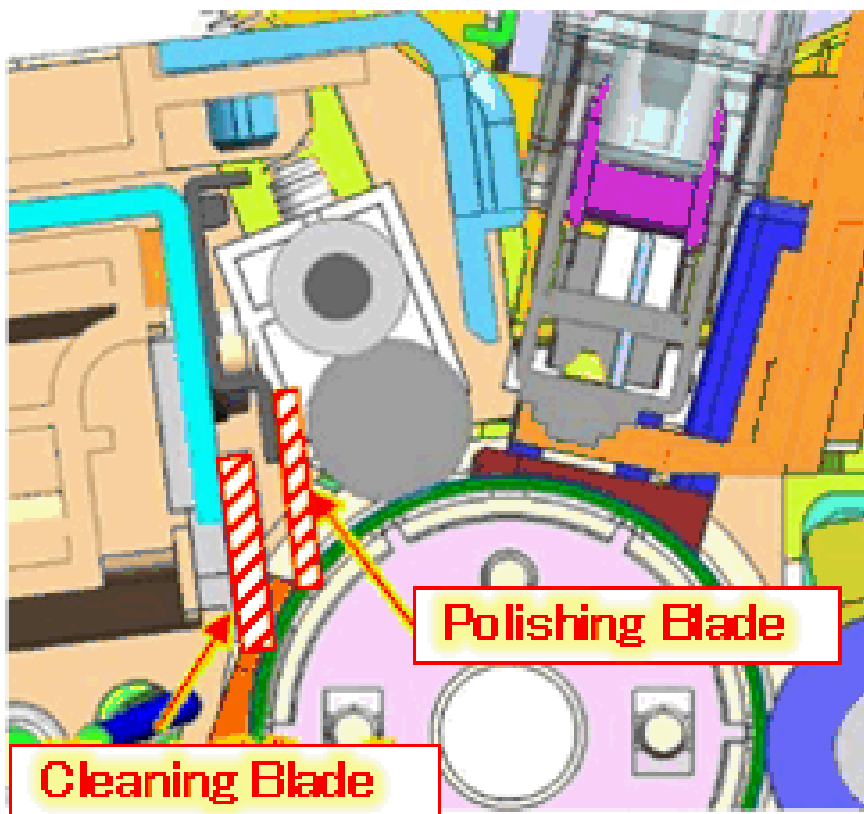
No.: RM158051

## SOLUTION & CUT-IN SERIAL NUMBER

### About Symptom #1

A bundle of the countermeasures as follows has been applied to PCDU in order to prevent all the causes (the origins) from growing to toner adherence onto a drum surface:

- (a) Applying a Polishing Blade. (Newly added)
- (b) Making a Cleaning Blade harder. (Material change of a cleaning blade)
- (c) Making the blades (a) and (b) more stabilized. (Material change of a PCU case)

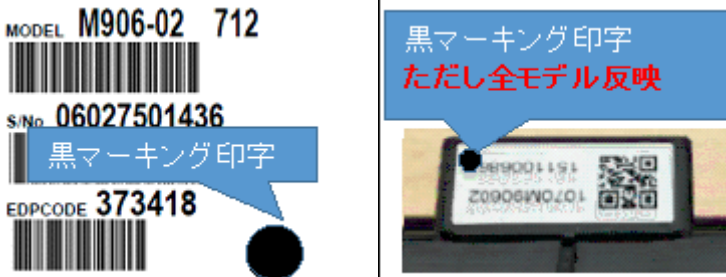


### PCDU for Service Maintenance Models:

Old P/N	New P/N	Description	Q'ty	I/C
M9060114	M9060130	PCU:CLICK:3:SERVICE:EXP	1	O/O

### PCDU for User Maintenance Models (EDP: 407324):

As there was no EDP change, please distinguish a new one from an old one by checking the followings:

Model: Gim-P1c/dM		Date: 16-May-18	No.: RM158051
1	By serial number	<ul style="list-style-type: none"> <li>● Cut-In SN on box label: 06178200001~</li> <li>● Cut-In SN on unit label: (2nd line) 180200001~</li> </ul>	
2	By identification mark (a dark circle) on a box label		

PCDU Bundled with a Machine:

Model Name	Product Name	Product Code	Cut-In SN
Gim-P1c	SP 4510DN	M158-17/-19/-21/-27	T578H400001 ~
Gim-P1cRS	SP 450DN	M0AP-27	Y688H400001 ~
Gim-P1dM	SP 4520DN	M159-17/-27	T588H400001 ~
Gim-MF1d	SP 4510SF	M160-17/-19/-21/-27	T598H400001 ~
Gim-MF1dM	MP 401SPF	M161-17/-27/-29	T608H400001 ~
Gim-P1a	SP 3600DN	M171-17/-21/-27	T638H303456 ~
Gim-P1aRS	SP 400DN	M0AQ-27	Y698H400001 ~
Gim-MF1a	SP 3600SF	M172-17/-27	T618H400001 ~
Gim-MF1b	SP 3610SF	M173-17/-21/-27	T628H400001 ~
Gim-MF1.5dM	MP 402SPF	M0A0-17/-27/-29	Y178H301694 ~

Model: Gim-P1c/dM

Date: 16-May-18

No.: RM158051

**About Symptom #2**

Added a process in production line to wipe out the oil.

PCDU for Service Maintenance Models:

Although there was no P/N change, the solution has already been applied to M9060130. If need to be distinguished, please refer to Cut-In Serial Number of PCDU as follows:

- Cut-In SN on box label: 06807903831~
- Cut-In SN on unit label: (2nd line) 1709003831~

PCDU for User Maintenance Models (EDP: 407324):

As there was no EDP change, please refer to Cut-In Serial Number of PCDU as follows if needed:

- Cut-In SN on box label: 06177907313~
- Cut-In SN on unit label: (2nd line) 170907313~

PCDU Bundled with a Machine:

Model Name	Product Name	Product Code	Cut-In SN
Gim-P1c	SP 4510DN	M158-17/-19/-21/-27	T577HB00851 ~
Gim-P1cRS	SP 450DN	M0AP-27	Y687HB00001 ~
Gim-P1dM	SP 4520DN	M159-17/-27	T587HB00001 ~
Gim-MF1d	SP 4510SF	M160-17/-19/-21/-27	T597HC00001 ~
Gim-MF1dM	MP 401SPF	M161-17/-27/-29	T607HC00001 ~
Gim-P1a	SP 3600DN	M171-17/-21/-27	T637HB01124 ~
Gim-P1aRS	SP 400DN	M0AQ-27	Y697HB00001 ~
Gim-MF1a	SP 3600SF	M172-17/-27	T617HC00001 ~
Gim-MF1b	SP 3610SF	M173-17/-21/-27	T627HC00001 ~
Gim-MF1.5dM	MP 402SPF	M0A0-17/-27/-29	Y177HB00001 ~



Model: Gim-P1c		Date: 11-Sep-18	No.: RM158053
Subject: Manual Correction:SC277-10		Prepared by: Taiga Itoh	
From: 1st Tech. Support Sec. Service Support 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

## Change/Reason: Adding explanations to service manual

SC No.	Level	Error Name/Error Condition/Major Cause/Solution
SC277-00 SC277-10	D	LEDA communication error
		The head type data was read three times in succession
		<b>(277-00)</b> <ul style="list-style-type: none"> <li>Defective ASIC</li> <li>Defective LEDA</li> </ul>
		<b>(277-10)</b> <ul style="list-style-type: none"> <li>LEDA power source error</li> <li>Turn the main power OFF and then ON.</li> <li>Replace the LED head</li> </ul>

## Add the following

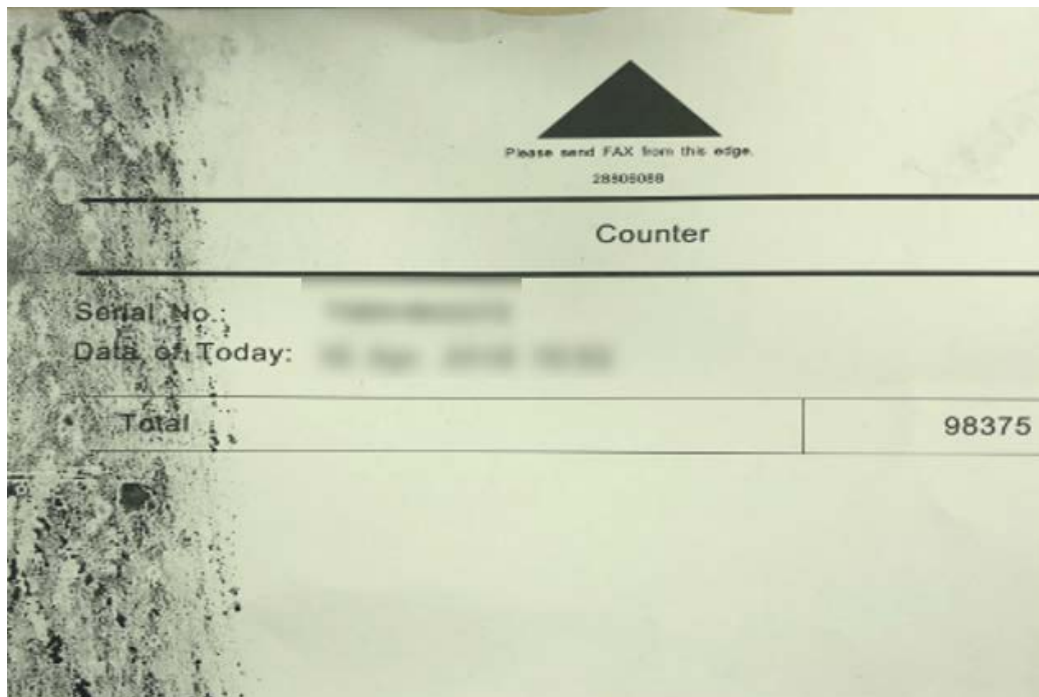
- Check and connect the FFC.
- Replace the FFC between the BiCU and LED head.
- Replace the BiCU

Model: Gim-P1c/dM		Date: 16-May-18	No.: RM158052
Subject: Troubleshooting: PCDU Waste Toner Collection Coil Breakage			Prepared by: K. Nakano
From: Overseas Field Info Sec., OP/OS FQM Dept., QAC			
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 <input type="checkbox"/> Tier 0.5

## SYMPTOM

The following(s) may occur after abnormal noise from left side of a machine

- Severe toner scattering or leakage inside of a machine
- Toner drop (dirty) on left side of a print



- Toner melting inside of a PCDU



Model: Gim-P1c/dM

Date: 16-May-18

No.: RM158052

**CAUSE**

Waste toner collection coil can be broken when a machine is set as either the cases as follows:

Case 1: (When all the conditions as follows are satisfied)

- Sleep Mode -> In-Active
- Fusing Unit Off Mode (Energy Saving) -> Active
- Fusing Unit Off Mode (Energy Saving) Timer -> Multiple of 60 minutes

Case 2: (When all the conditions as follows are satisfied)

- Sleep Mode -> Active
- Sleep Mode Timer -> Multiple of 60 minutes
- DF (Document Feeder) is kept open

If a machine is used under these settings, then a certain internal engine control which rotates fusing unit slightly at every 60mins after the last print job may activate at the same time of activation of sleep mode or energy saving mode.

In such situation, the engine control turns ON the main motor, which continues developing process and rotates PCDU. However, sleep mode or energy saving mode turns OFF the toner supply clutch, which regulates the used toner transport coil in a toner cartridge.

As a result, a PCDU keeps generating waste toner but cannot be wasted to a waste toner box in a toner cartridge, then the collection coil cannot be rotated and broken due to the fully packed waste toner in the path.

**SOLUTION**

From the Engine FW versions or later listed in the table below, the following countermeasures have been applied:

1. The internal engine control timing will be changed from "every 60min after the print job" to "every 59min after the last print job."
2. Add a function which monitors ON/OFF consistency at every 1 sec.
3. To cut the chain of problem inducing waste toner coil breakage, SC990 will occur only when inconsistency lasts a certain while.

Model: Gim-P1c/dM			Date: 16-May-18	No.: RM158052
Model Name	Product Name	Product Code	Engine FW Version	Cut-In SN
Gim-P1c	SP 4510DN	M158-17/-19/-21/-27	1.33:13 ~	T578H500001 ~
Gim-P1cRS	SP 450DN	M0AP-27	TBA	TBA
Gim-P1dM	SP 4520DN	M159-17/-27	1.33:13 ~	T588H500001 ~
Gim-MF1d	SP 4510SF	M160-17/-19/-21/-27	1.35:09 ~	T598H400001 ~
Gim-MF1dM	MP 401SPF	M161-17/-27/-29	1.35:09 ~	T608H400001 ~
Gim-P1a	SP 3600DN	M171-17/-21/-27	1.24:06 ~	T638H500001~
Gim-P1aRS	SP 400DN	M0AQ-27	TBA	TBA
Gim-MF1a	SP 3600SF	M172-17/-27	1.24:06 ~	T618H500001 ~
Gim-MF1b	SP 3610SF	M173-17/-21/-27	1.24:06 ~	T628H500001 ~
Gim-MF1.5dM	MP 402SPF	M0A0-17/-27/-29	1.04:03 ~	Y178H600001 ~

Model: Gim-P1c/dM		Date: 25-Sep-18	No.: RM158054
Subject: Manual Correction: SPs to switch the near end timing		Prepared by: E. Nakamura	
From: 1st Tech. Support Sec. Service Support 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 Revision

- Added information on the relation between the UP and SP settings for switching the near end timing.
- Added detailed information for each setting.

3098	<b>[Days Before End]</b> Switches the near end timing: days before end toner		
3-098-001	Toner	E*	[0 to 2 / 1 / 1/step] 0: earlier <b>RTB 49</b> 1: normal <b>Information added</b> 2: later

7952	<b>[Days Before End]</b> Switch the timing of the near end: Days until the end.		
7-952-001	Maintenance Kit	E*	[0 to 2 / 1 / 1/step] 0: Earlier 1: Normal 2: Later
7-952-002	PCDU	E*	[0 to 2 / 1 / 1/step] 0: Earlier 1: Normal 2: Later

Model: Gim-P1c/dM	Date: 25-Sep-18	No.: RM158054
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3800	<b>[Days Before End]</b> Switches the near end timing: days before end toner		
3-800-001	Waste Toner	E*	[0 to 2 / 1 / 1/step] 0: earlier 1: normal 2: later

The relation between the UP and SP settings for switching the near-end timing is shown below:

	Toner	Maintenance Kit	PCDU	Waste Toner
<b>UP setting</b>	Available (*)	Available (*)	Available (*)	Not Available
<b>SP setting</b>	3-098-001	7-952-001	7-952-002	3-800-001

\*Note: Menu > Maintenance > General Settings > Replacement Alert

A description of the setting values is shown below:

UP setting value	SP setting value	FSM	Notify timing	Printable pages
Notify Sooner	0	earlier	7 days before end (*)	959 (*)
Normal	1	normal	5 days before end (*)	685 (*)
Notify Later	2	later	3 days before end (*)	411 (*)

**\*Important Notice:**

- The figures above are intended only as an example and are calculated based on the following conditions:
  - A4 (LT)
  - 6% image coverage ratio
  - 3P/J
  - APV: 3.0k prints/month
- The printing habits of the customer (document type, job size, image density, etc.) will have a substantial impact on the toner cartridge's actual page yield. Accordingly, the actual number of days and/or pages that the machine can print with the remaining toner may vary considerably.

Reissued: 28-May-19

Model: Gim-P1, MF1/1.5	Date: 28-Mar-19	No.: RM158055b
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## RTB Reissue

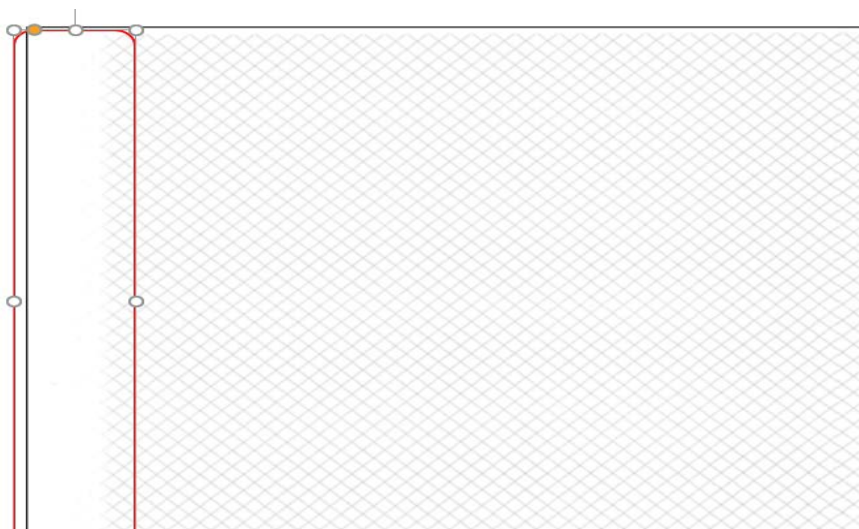
The items in ***bold italics*** were changed or added

Subject: Troubleshooting: White bands on the left edge of image		Prepared by: Y. Tamaoka	
From: Overseas Field Info Sec., OP/OS FQM Dept., QAC			
Classification:	<input checked="" 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 checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

## SYMPTOMS

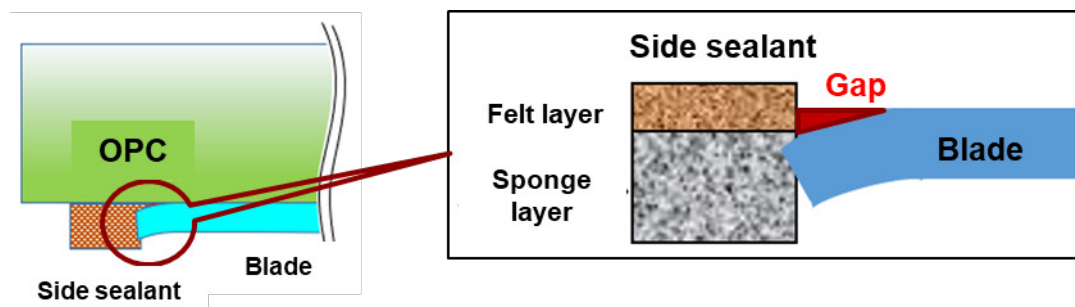
White bands appear on the left edge of the image (captioned in red below).

**Note:** This is temporarily solved by cleaning the LED array, but occurs again.



## CAUSE

A gap develops between the OPC surface and tip of the cleaning blade, allowing toner to slip through and enter the machine's internal airflow. This toner scatters and spreads inside the machine, gradually building up on the LED array. This leads to white blotches (missing toner) along the left edge of the image.





**Reissued: 28-May-19**

Model: Gim-P1, MF1/1.5	Date: 28-Mar-19	No.: RM158055b
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**SOLUTION & CUT-IN SERIAL NUMBER**

Replace PCDU.

The factory has implemented the following updates to insure the new PCDUs perform better.

1. Revise instructions so as to prohibit the application of pressure/pushing on the tip of the cleaning blade when the blade is installed.
2. Add an inspection that will check for the leaking of any toner through the gap described.

These solutions were applied from the following PCDU serial numbers (mid-Jan. 2019): **\*3**

Product	EDP	Code	PCDU # on PCDU *1	PCDU # on Box
Photo Conductor Unit SP 4500	407324	M906-17	1170M90617190123184 ~	06179123184
Photo Conductor Unit SP 400	408059	M906-04	1170M90604190100001 ~	06049100001
M9060130 PCU:CLICK:SERVICE:EXP			1170M90680190102119 ~	N/A (Lot 0219) *2

\*1 Location of serial number on PCDU itself:

***This serial number shows the actual PCDU serial #. (Correction for label location of PCDU serial # in the photo below)***



\*2 Location of serial number on PCDU service parts box:

The second half of the lot number captioned **in red** shows the **near**-actual production month (as this month is the month of packaging/shipping), which in the following example is Oct. 2018.

**Reissued: 28-May-19**

Model: Gim-P1, MF1/1.5	Date: 28-Mar-19	No.: RM158055b
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***\*3 Marked on PCDU serial # label with a blue dot.***

***Those PCDU's were produced before the solution was applied, but have undergone inspections that confirm that the issue will not occur on these units.***



**Reissued: 22-May-19**

Model: Gim-P1, MF1/1.5	Date: 4-Apr-19	No.: RM158056a
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**RTB Reissue**

The items in ***bold italics*** were changed or added

Subject: Troubleshooting: Defect of waste toner collecting auger		Prepared by: Y. Tamaoka	
From: Overseas Field Info Sec., OP FQM Dept., QAC			
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 <input type="checkbox"/> Tier 0.5

**SYMPTOMS**

One or more of the following occurs:

- Black lines/streaks ***on left edge of image***
- Toner drops on prints
- Mechanical noise from the PCDU
- SC440

**CAUSE**

The intake filter on the right cover is not cleaned while the machine is used with Energy Saver disabled.

When the machine is used under these conditions, the intake filter clogs, causing the machine internal temperature to rise. The toner in the waste toner path hardens and sticks to the path, preventing the toner collection auger from functioning correctly.

**SOLUTION**

If the symptom occurs, do the following ***after cleaning around PCDU:***

1. Replace the PCDU with a new one.
2. Then, enable Energy Saver ***and*** clean the intake filter with a wet cloth.

***Refer to RTB:RM158039c and Parts catalog for part number of filter if the filter need to be replaced.***