

Model: Ti-P1		Date: 21-May-13	No.: RM109001
Subject: IEEE802.11 Interface Unit Type O Notification		Prepared by: Y. Suzuki	
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

Important Notice about the IEEE802.11 Interface Unit Type O

Overview:

- Depending on the versions of the utilities that are installed on a device, some of their functions cannot be used if the device is connected to the network through this product.
- The IEEE802.11 Interface Unit Type O uses the new vendor MAC address. Some Ricoh utilities do not support this new vendor MAC address.

Details:

- The following sheet is included in the box.



M1098520_toff_2.pdf

Reissued: 07-Nov-16

Model: Ti-P1	Date: 05-Jun-13	No.: RM109002h
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RTB Reissue

The items in bold italics have been changed or added.

Subject: Firmware Release Note: Engine		Prepared by: H. Kobayashi	
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 **Engine**.

Version	Program No.	Effective Date	Availability of RFU
2.07:16	M1095151R	November production '16	Available
2.06:16	M1095151Q	November production '16	Available
2.001:16	M1095151N	March production '15	Available
2.00:16	M1095151M	February production '14	Available
1.90:16	M1095151L	December production '13	Available
1.80:16	M1095151K	October production '13	Available
1.60:16	M1095151J	August production '13	Available
1.50:16	M1095151H	July production '13	Available
1.40:16	M1095151G	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
2.07 :16	<p>Symptom corrected:</p> <ul style="list-style-type: none"> - A horizontal black line may appear at 5 mm to 40 mm from the leading edge of the back side of the 1st page. - An offset image may appear on the 1st page, if printed in a high temperature environment immediately after turning On the main power switch or after recovering from the energy saver mode. (Offset image: A partial image that remains on the fusing belt is transferred to subsequent copies.) - SC552 (Fusing End thermistor not reloaded) may be detected due to foreign materials on the fusing end thermistor.

Reissued: 07-Nov-16

Model: Ti-P1		Date: 05-Jun-13	No.: RM109002h
Version	Modified Points or Symptom Corrected		
	<p>Other changes:</p> <p>- The following SP settings were reviewed and revised.</p> <p>SP1-111-008 [Env.Crrct:Fusing] DFU > Prnt:HighCrrct:Sp Default 5 -> 3</p> <p>SP1-116-031 [StorageFBCrrct] DFU > Delay:Std:FC2 Default 0 -> 5321</p> <p>SP1-116-032 [StorageFBCrrct] DFU > Delay:Std:BW2 Default 0 -> 3865</p> <p>SP1-116-041 [StorageFBCrrct] DFU > PressStandardTemp Default 100 -> 90</p> <p>SP1-116-042 [StorageFBCrrct] DFU > TmpCrrctLowLimit Default -5 -> -10</p> <p>SP1-116-051 [StorageFBCrrct] DFU > PprThickCoef:Nm1 Default 10 -> 18</p> <p>SP1-116-052 [StorageFBCrrct] DFU > PprThickCoef:Nm2 Default 7 -> 15</p> <p>SP1-153-003 [LowTemp:StartUp] DFU > Temp:Target Minimum value 50 -> 85</p> <p>SP2-500-027[Engine Setting] > Data SW2 Maximum value 32767 -> 12, Minimum value -32768 -> 0</p> <p>SP2-500-028 [Engine Setting] >Data SW3 Maximum value 32767 -> 12, Minimum value -32768 -> 0</p>		
2.06 :16	Symptom corrected:		
	SC370 (TM Sensor calibration error) may be falsely detected.		
	The power indicator blinks in Energy Saver mode and the printer engine freezes.		
2.001:16	Symptom corrected:		
	<p>1. SC552-02 may occur.</p> <p>Note: Occurrence criteria was improved.</p>		
	<p>Other changes:</p> <p>2. The number of times that the machine has been in idling mode is displayed.</p> <p>Note: SP modes have been added for the Japan model only.</p>		
2.00:16	<p>Other changes:</p> <p>The following SP values were optimized to decrease jams due to paper curl:</p> <ul style="list-style-type: none"> - SP-1-113-008 (Curl Correction: CPM:M-humid (DFU)); Changed to 100. - SP-1-113-009 (Curl Correction: CPM:H-humid (DFU)); Changed to 100. - SP-2-500-016 (Engine Setting: Data SC1); Default changed from 0 to 1. - Note: An asterisk ("*") will appear next to these new values on the SMC sheet. 		

Reissued: 07-Nov-16

Model: Ti-P1		Date: 05-Jun-13	No.: RM109002h
Version	Modified Points or Symptom Corrected		
	<p>Symptom corrected:</p> <ol style="list-style-type: none"> 1. A paper jam error is displayed after the machine tries to automatically switch trays when the paper runs out in the tray in use. 2. A paper jam error is displayed if the machine detects Toner End and then any of the following conditions are met within 0.55 seconds: <ul style="list-style-type: none"> - Cover open - No toner cartridge - SC error - Power plug is removed - Breakdown of ID chip <p>Note: This symptom cannot be cleared by removing the jammed paper. It is necessary to replace the toner cartridge.</p>		
1.90:16	<p>Other changes:</p> <p>SP2 500 013 (Engine Setting Data UC3), SP2 500 014 (Engine Setting Data UC4), and SP2 500 015 (Engine Setting Data UC5) were newly added.</p> <p>Note: These SP modes are used to adjust the timing of the PCDU replacement alert. For details, please refer to RTB RM109030.</p>		
	<p>The toner refresh mode was optimized as follows to minimize the frequency toner refresh.</p> <p>When toner refresh is executed for one of the four colors (CMYK), the machine checks whether toner refresh is necessary for any of the other colors. If it is necessary, toner refresh is carried out for these colors together.</p> <p>Note: With the previous firmware versions, toner refresh was executed for each color independently.</p>		
	<p>The start timing for the paper exit/reverse roller was optimized for the second page of duplex printing.</p>		
	<p>Symptom corrected</p> <p>A paper jam error is displayed when the machine tries to feed from the optional tray and there is no paper in the tray.</p> <p>Note: Before the jam, "Paper is loaded" is displayed for a moment, even though the optional tray is already empty and pushed in.</p>		

Reissued: 07-Nov-16

Model: Ti-P1		Date: 05-Jun-13	No.: RM109002h
Version	Modified Points or Symptom Corrected		
	The Data In indicator may blink continuously if the Paper End condition occurs when printing envelopes and SP3-540-001 ([High Quality Mode] DFU) is at a value of 1.		
	SC545-00 or SC555-00 may be displayed or the fusing roller may continue to rotate under the following conditions. <ul style="list-style-type: none"> - After the printing start signal is issued and before the LED array starts to write the latent image, the paper tray is pulled out or printing is cancelled. - [Driver/Command] priority is set to [Tray Setting Priority], and the Paper End condition is detected in the tray. 		
	A duplex jam may occur when all the following conditions are met: <ul style="list-style-type: none"> - The first sheet is fed from Tray 1, Tray 2, or the bypass tray - The second sheet is fed from Tray 3 - The paper length is shorter than 282.4mm 		
1.80:16	Other changes: The occurrence conditions for IBACC errors were changed to maximize detection/occurrence accuracy.		
1.60:16	Symptom corrected: 1. Light images may be printed at about 1000 pages after a new PCPU is installed. Note: <ul style="list-style-type: none"> - Executing [Auto ImgDensAdj&ColrCalib] in [Quality Maintenance] under [Maintenance] (IBACC:Image transfer Belt ACC) is not effective in improving the image quality. - For this correction, the image processing parameters for new/early-stage PCPUs were optimized. - With this firmware, you can input the distances for the following SP modes manually, so that you can use an old PCPU replaced once before for the light images issue. SP 7 803 031 (Dist: PCPU: Bk) SP 7 803 032 (Dist: PCPU: C) SP 7 803 033 (Dist: PCPU: M) SP 7 803 034 (Dist: PCPU: Y)		

Reissued: 07-Nov-16

Model: Ti-P1		Date: 05-Jun-13	No.: RM109002h
Version	Modified Points or Symptom Corrected		
	Other changes:		
	2. The toner refresh mode was optimized as follows to minimize toner clumping in the PCDU. <ul style="list-style-type: none"> - Toner refreshing is performed every 50 sheets from the time a new CMY PCDU is installed if the average coverage of each sheet is 3.4% or less. - The toner refreshing mode removes the toner from the PCDU so that 3.4% of toner is consumed on average. 		
	3. The calculation method of toner consumed with blank page printing was optimized.		
	Important: In addition to this Engine firmware version, be sure to update the System firmware to V1.08 or later.		
1.50:16	Symptom corrected		
	1. The cooling fans do not come on if a B/W job is initiated after the main power is turned on or the machine recovers from Energy Saver mode.		
	2. The machine enters idling mode if the temperature/humidity sensor detects 42C or more due to continuous printing under the following conditions: <ul style="list-style-type: none"> - Sleep mode is not entered because the print job was initiated before the Sleep Mode timer is triggered. - The room temperature was 30C at the start of the job, or the temperature/humidity sensor is covered or blocked (for example, by the wall). 		
	Note: As part of this correction, the following was changed: <ul style="list-style-type: none"> - The target temperature for the idling mode was changed from 42C to 45C. - The fusing fan is rotated for one minute at the end of a job when the internal machine temperature is calculated at 40C or more. 		
1.40:16	1st Mass production		

Reissued: 08-Dec-15

Model: Ti-P1	Date: 05-Jun-13	No.: RM109003e
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RTB Reissue

The items in bold italics have been corrected or added.

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

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

Version	Program No.	Effective Date	Availability of RFU
12.55	M1095255H	December 2015 production	Available
12.54	M1095255G	October 2014 production	Available
12.53	M1095255F	August 2014 production	Available
12.52	M1095255E	August 2013 production	Available
12.51.2	M1095255D	May 2013 production	Available
12.51.1	M1095255C	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
12.55	<p>Symptom corrected:</p> <ol style="list-style-type: none"> When the device is in Energy Saver Mode, if information about the network interface for the device is being obtained from the SNMP Manager application, nonexistent errors are recorded in the system logs. When the display language of the operation panel is set to Catalan, Scan to Folder fails. <p>Other changes:</p> <ol style="list-style-type: none"> Support of @Remote for IPv6. Changed the DH key specification to use 2,048 bits instead of 512 bits to prevent the Logjam vulnerability (CVE-2015-4000). In addition, by modifying this specification, SSL/TLS communication can be established when using Mac OS X 10.10.4 and iOS 8.4.
12.54	<p>Other changes:</p> <ul style="list-style-type: none"> When printing from the Windows operating system, if the RAW protocol is used for the standard TCP/IP port, a significant amount of time might pass until the next job is printed. Because of this, the initial print timeout period is changed to 15 seconds and the shortest timeout period that can be set is changed to 5 seconds.

Reissued: 08-Dec-15

Model: Ti-P1		Date: 05-Jun-13	No.: RM109003e
Version	Modified Points or Symptom Corrected		
12.53	Symptom corrected: - When conducting IPP printing on Mac OS X 10.9, the document might not print. - When running the port scan tool via the IPP port (TCP 631), an SC899 error might occur.		
12.52	Symptom corrected: 1. SMB timeout increased to 20 seconds (from 10 seconds). 2. When getting a network summary from @Remote, the security-level items might not display correctly. 3. If NBT is disabled, the destination for Scan to Folder might not be displayed and Windows authentication might fail. 4. Although the LLMNR of IPv4 and IPv6 are enabled in Web Image Monitor, it might not affect the printed result of the NIB Summary (SP5-990-007) and/or the Print List in Interface Settings of System Settings. 5. When multiple SDK applications are introduced, an SC899 error might occur. 6. When importing the device settings information, if the host name is set by default, an error message might appear, stating that some of the settings were not imported. 7. The "148 x 200 mm" (Japanese double postcard) option might not appear in the paper size options on the AirPrint printing screen. 8. When DHCP v6 is enabled, turning the power off and then on might cause a memory leak. 9. When simultaneously printing from AppleTalk on a Mac and a protocol other than AppleTalk in Windows, an SC899 error might occur. 10. When PEAP or TTLS is used as the IEEE 802.1X authentication method and the server certification check is disabled, the IP address might not be obtained after the device is restarted.		
12.51.2	Symptom corrected: All communication between an Embedded RC Gate and the @Remote Center is interrupted if a time-out error occurs during SSL negotiation. Note: Instead of retrying the negotiation, the machine switches to Rescue Mode (updating of machine certificates).		
12.51.1	1st Mass production		

Model: Ti-P1	Date: 05-Jun-13	No.: RM109004
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Subject: Firmware Release Note: NetworkDocBox		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 **NetworkDocBox**.

Version	Program No.	Effective Date	Availability of RFU
1.00	M1095256B	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

Model: Ti-P1	Date: 05-Jun-13	No.: RM109005
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Subject: Firmware Release Note: PowerSaving Sys		Prepared by: Y. Suzuki	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

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

Version	Program No.	Effective Date	Availability of RFU
1.14	M1095251B	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
1.14	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: 23-Apr-14

Model: Ti-P1	Date: 05-Jun-13	No.: RM109010b
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RTB Reissue

The items in bold italics have been corrected or added.

Subject: Firmware Release Note: PDF		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 **PDF**.

Version	Program No.	Effective Date	Availability of RFU
1.05	M1095260E	April 2014 production	Available
1.04	M1095260D	August 2013 production	Available
1.03	M1095260B	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
1.05	Symptom corrected: <ul style="list-style-type: none"> - <i>If odd pages are specified for duplex jobs on the SDK preview screen, even pages are displayed.</i> - <i>PDF Direct jobs containing a mask that was created using tiling, will be reset.</i> - <i>SC899 occurs when printing PDF files that contain composite fonts.</i> - <i>Limitcheck error occurs when printing jobs that contain extremely small images that are difficult to draw.</i>
1.04	Other changes: Jobs are sorted instead of stacked even if number of copies are changed in SDK (printPlus), if the sort/stack option is not specified in the SDK. Symptom corrected: Number of copies might not take effect if printing PDF files using SDK (printPlus).
1.03	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: 09-Jun-15

Model: Ti-P1	Date: 05-Jun-13	No.: RM109015c
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RTB Reissue

The items in bold italics have been corrected or added.

Subject: Firmware Release Note: Web Support		Prepared by: H. Kobayashi	
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 **Web Support**.

Version	Program No.	Effective Date	Availability of RFU
1.05	M1095253G	July 2015 production	Available
1.04	M1095253F	October 2014 production	Available
1.03	M1095253E	August 2013 production	Available
1.02	M1095253D	May 2013 production	Available
1.01.2	M1095253C	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
1.05	Symptom corrected: - Minor bug correction.
1.04	Symptom corrected: - Minor bug correction.
1.03	Symptom corrected: 1. When using the web development tools like Firebug in Web Image Monitor, users who do not have the authority of editing might even be able to edit the administrative privileges of each. 2. When restoring an address book that was backed up by using an encryption key in Web Image Monitor, the Restore function might not work correctly.
1.02	Specification changes: 1. SP5305-101 was added to comply with Blue Angel requirements. Note: - This SP can be set to a value of 0 or 1. - When set to 1, the highest value for the Sleep Mode Timer becomes 60 min. (not 120 or 240 min.), and Sleep Mode cannot be turned off.
1.01.2	1st Mass production

Reissued: 28-Apr-15

Model: Ti-P1/Gim-P1c/Gim-P1d/Da-P1d/Z-P2	Date: 05-Jun-13	No.: RM109016c
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RTB Reissue

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

Subject: Firmware Release Note: PS3 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 **PS3 Font**.

Version	Program No.	Effective Date	Availability of RFU
1.16	M1095275A	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

Model: Ti-P1	Date: 03-Jul-13	No.: RM109017
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Subject: Firmware Release Note: Option IPDS		Prepared by: Y. Suzuki	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

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

Version	Program No.	Effective Date	Availability of RFU
8.573	M1095271	1st Mass production	Available

Note: Definition of Availability of RFU via @Remote

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

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

Version	Modified Points or Symptom Corrected
8.573	1st Mass production

Reissued: 28-Apr-15

Model: Ti-P1/Z-P2	Date: 05-Jun-13	No.: RM109018a
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RTB Reissue

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

Subject: Firmware Release Note: OptionSD FONT		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 **OptionSD FONT**.

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

Model: Option PctBrdg	Date: 05-Jun-13	No.: RM109019
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Subject: Firmware Release Note: Option PctBrdg		Prepared by: Y. Suzuki	
From: 3rd Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

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

Version	Program No.	Effective Date	Availability of RFU
1.14.09	D1655713A	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
1.14.09	1st Mass production

Model: Model Ti-P1		Date: 26-Jul-13	No.: RM109020
Subject: Guide Plate for Bypass Tray		Prepared by: H.K.	
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 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

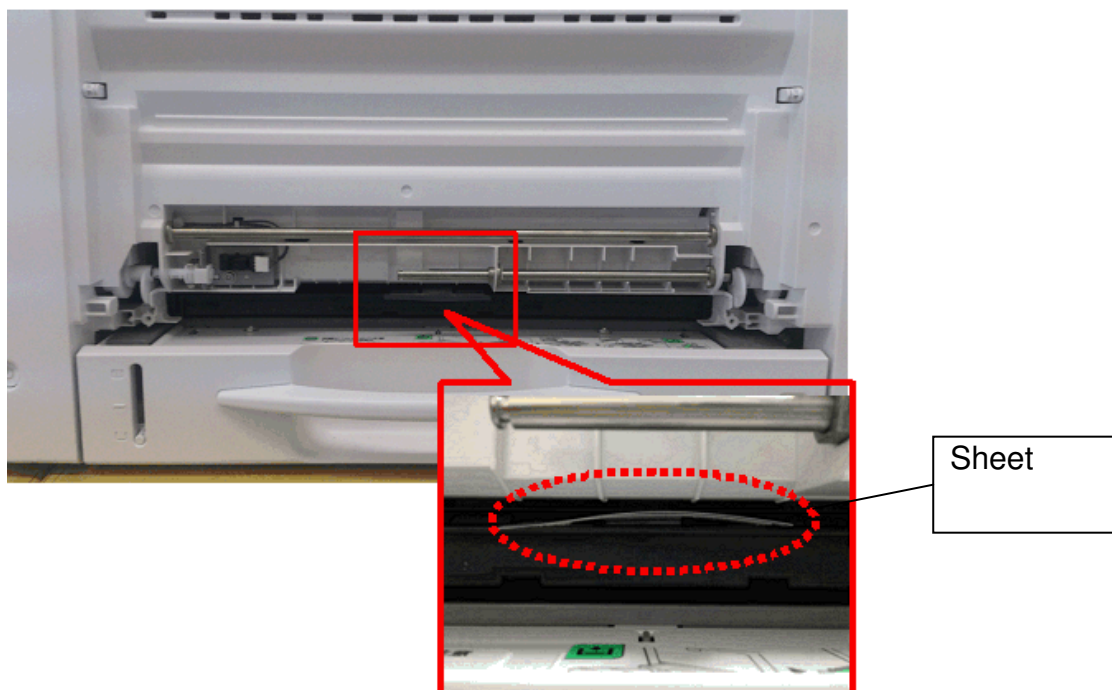
SYMPTOM

A feed jam or non-feed occurs when feeding from the bypass paper feed table.

Note: These jams are counted up in SP7514-008 (Bypass On in the logging data).

CAUSE

The sheet attached to the lower transport guide may partially peel off.



Note: The above photo was taken after the bypass feed table, bypass feed roller cover, bypass feed roller, and bypass feed friction were all removed.

Model: Model Ti-P1

Date: 26-Jul-13

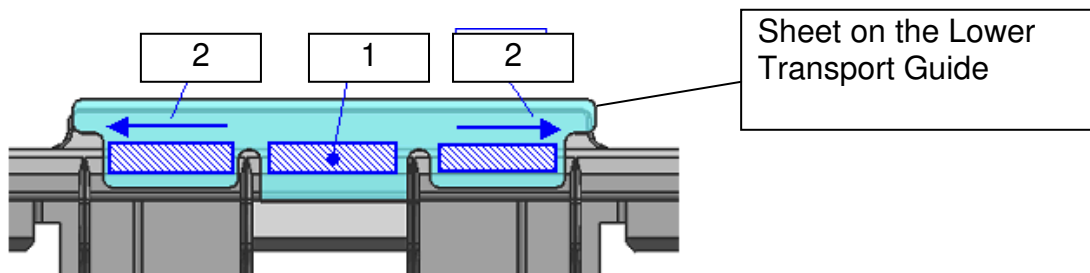
No.: RM109020

SOLUTION

Production line

- Temporary solution (from first production, June 2013)

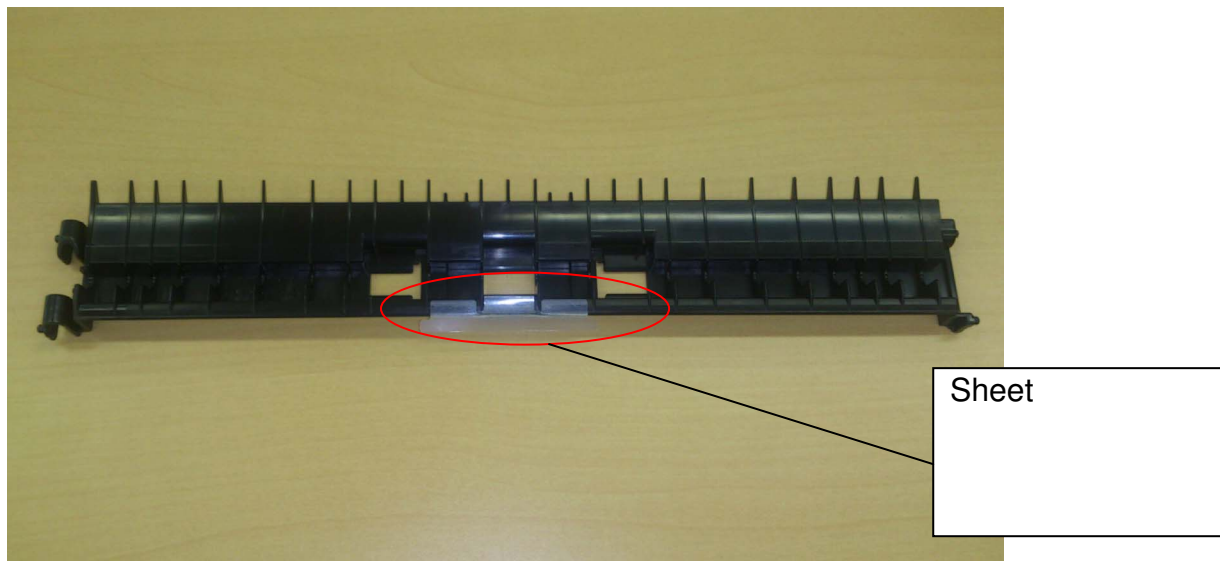
A procedure was added for attaching the sheet to the lower transport guide plate (the center is attached first, followed by the left/right edges).



- Final solution (from July 2013)

The sheet was removed and the shape of the lower transport guide was changed. The portion that was extended (circled below) performs the same function as the sheet.

Old Lower Transport Guide

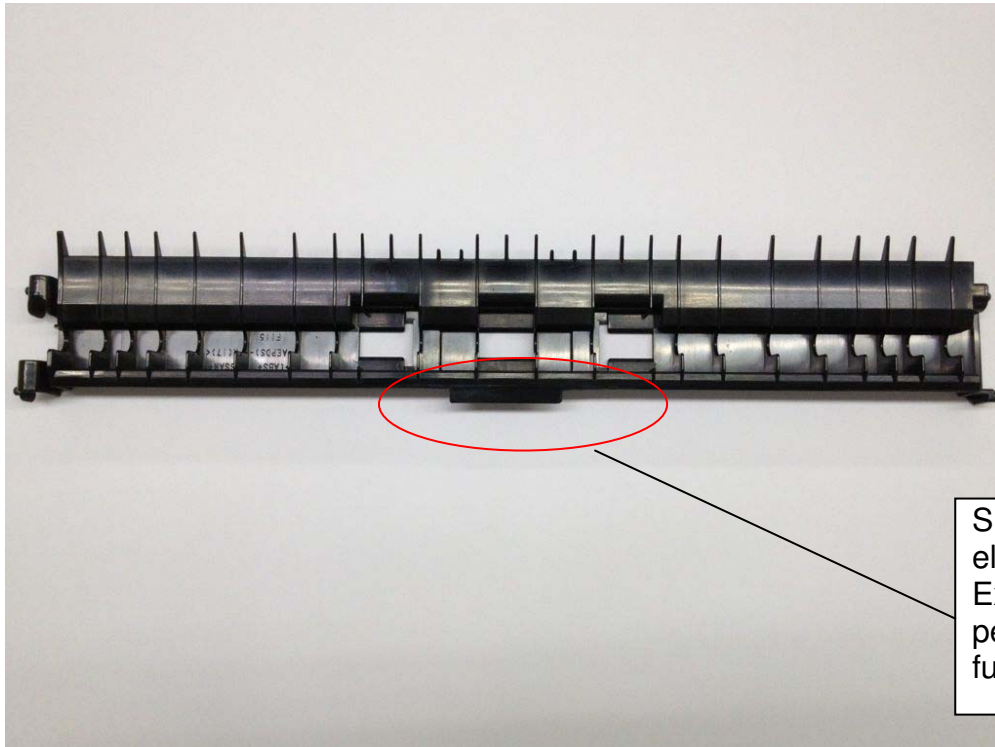


Model: Model Ti-P1

Date: 26-Jul-13

No.: RM109020

New Lower Transport Guide



Model: Model Ti-P1

Date: 26-Jul-13

No.: RM109020

In the field

Replace the lower guide plate and sheet with the new lower guide plate (new service part).

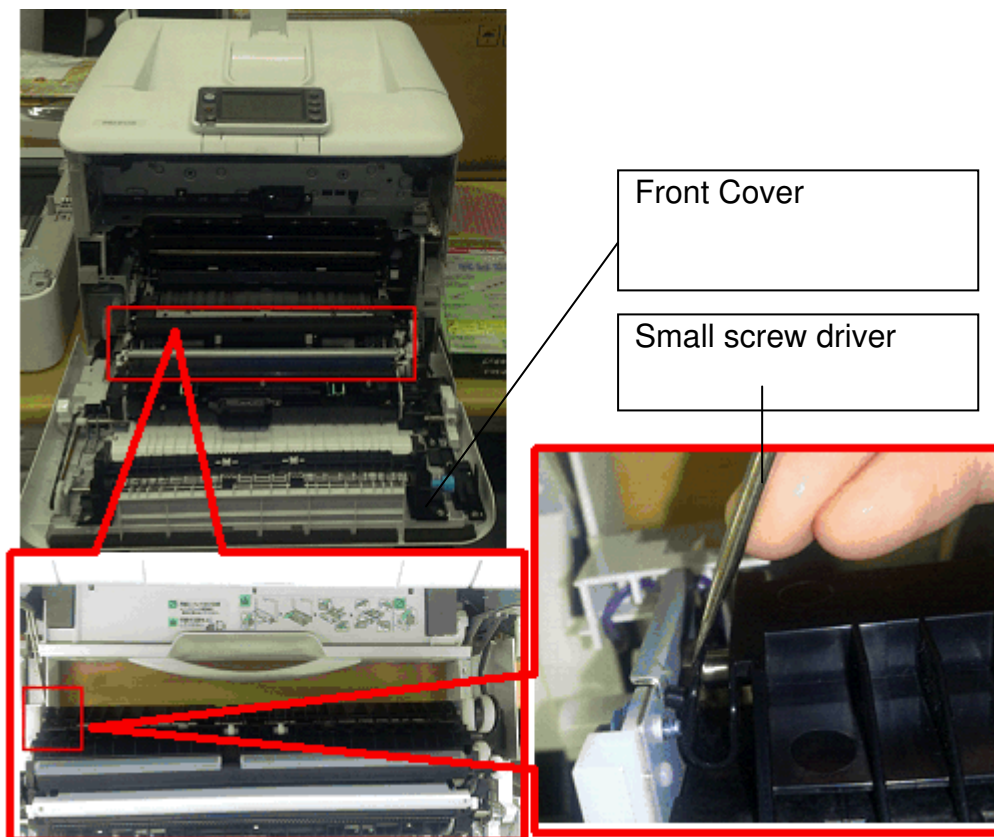
See the procedure below.

Note: The old guide plate is not available as a service part.

Old part number	New part number	Description	Q'ty	Int	Note
	M1093865	GUIDE PLATE:TRANSPORT:LOWER	0 - 1		

Replacement procedure for the lower guide plate

1. Open the front cover.
2. Remove the two projections on the left side using a screwdriver, as shown in the photo.
3. Remove the lower guide plate from the machine.



Model: Model Ti-P1		Date: 2-Aug-13	No.: RM109021
Subject: Pressure Plate		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M1092586	M1092595	KNOB:COIL SPRING:PAPER TRAY:UD	1 - 2	X/O			
	M1092597	COMPRESSION SPRING:TRAY BOTTOM PLATE:AUX					*
	M1092598	HOLDER:COIL SPRING:BASE					*

Note *: These parts are listed in the parts catalog.

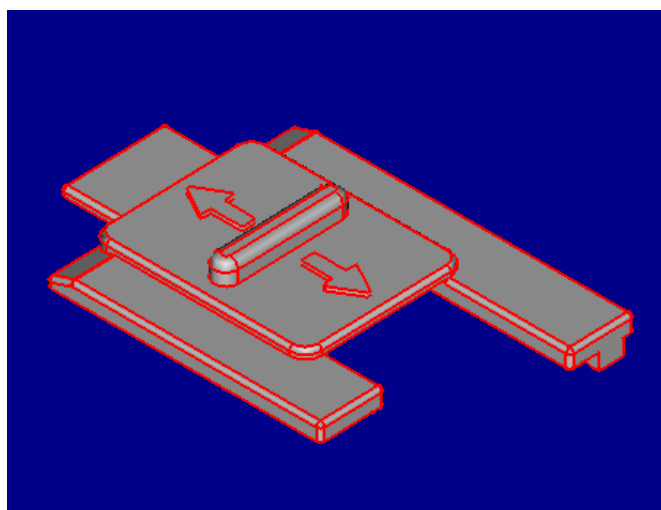
Change: The pressure plate assembly is now provided as three individual parts.

Reason: To comply with revised import/export regulations.

Important:

- These parts are not installed on machines in production, as they are not necessary to satisfy machine specifications for paper feed. When installed, they can provide extra upward pressure so that some paper thicker than specification can be fed.
- Therefore, product warranty does not apply to paper jams or other machine failures that occur while these parts are installed.

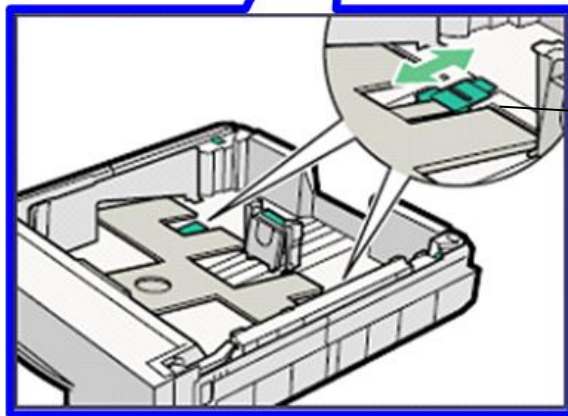
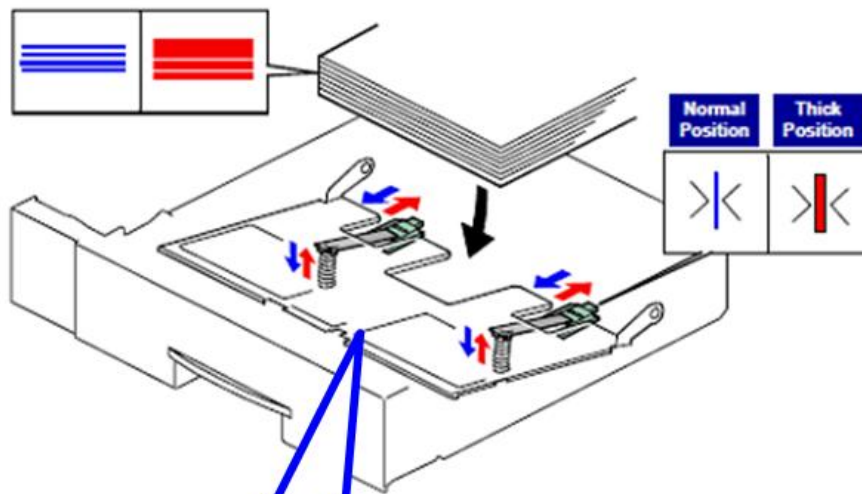
KNOB:COIL SPRING:PAPER TRAY:UD



Model: Model Ti-P1

Date: 2-Aug-13

No.: RM109021



KNOB:COIL
SPRING:PAPER
TRAY:UD

m1092135

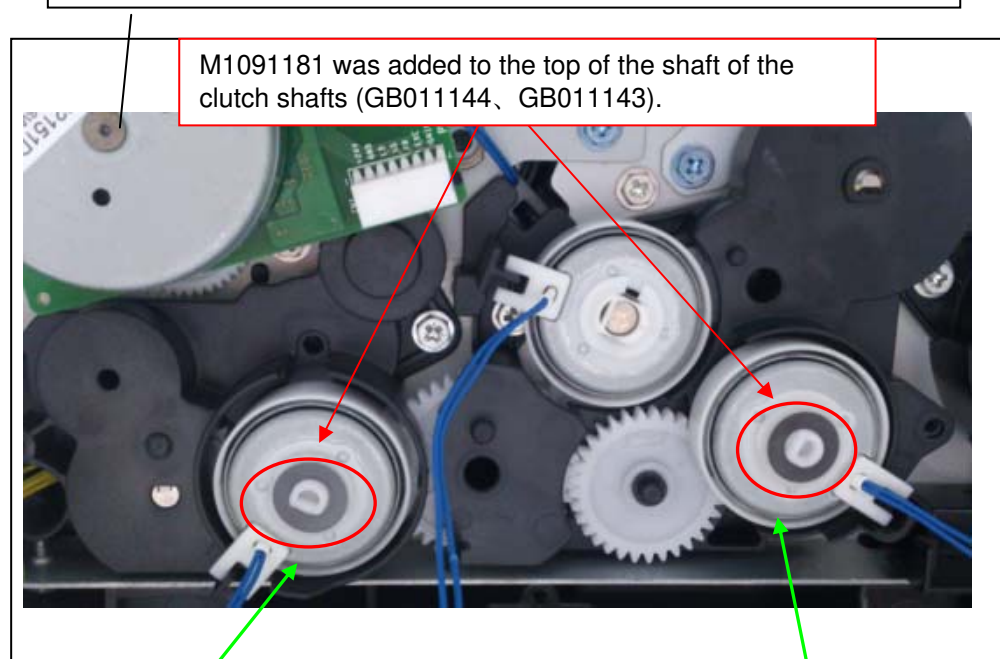
Model: Ti-P1		Date: 17-Sep-13	No.: RM109022
Subject: Spacers for Clutches		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
	M1091181	SPACER:DIA12:0.13MM	1 - 3		

Change: Two spacers were added to the top of the shafts of the clutches as shown in the illustration.

Reason: For smoother driving of the clutches

GX062151 DC BRUSHLESS MOTOR:TRANSPORT:10W



GX202125
ELECTROMAGNETIC
CLUTCH:0.45NM

GX202124 ELECTROMAGNETIC
CLUTCH:0.35NM

Model: Ti-P1	Date: 17-Sep-13	No.: RM109022
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RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413R8xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413R8xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413R8xxxxx

Model: Ti-P1		Date: 1-Oct-13	No.: RM109023
Subject: Connecting Base Spacer		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
M1091186		SPACER:BASE:CONNECTING	1 - 0		

Change: The Connecting Base Spacer, which holds the Second Transfer Compression Spring (P/N: M1095827) in place, was deleted from the production line.

However, this part is still available for order to use on old machines in the field (machines produced before the production line change).

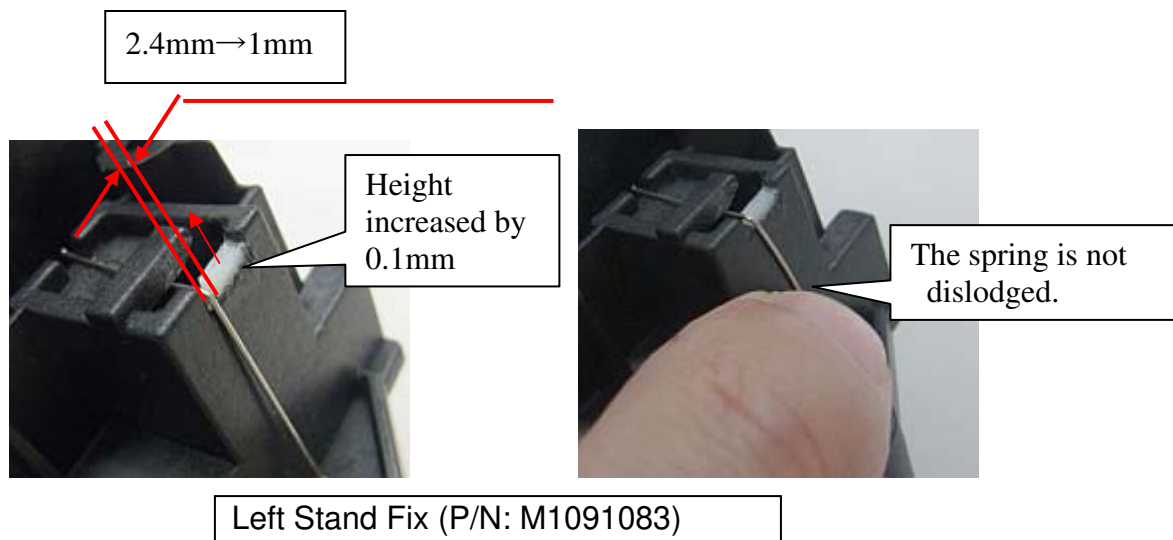
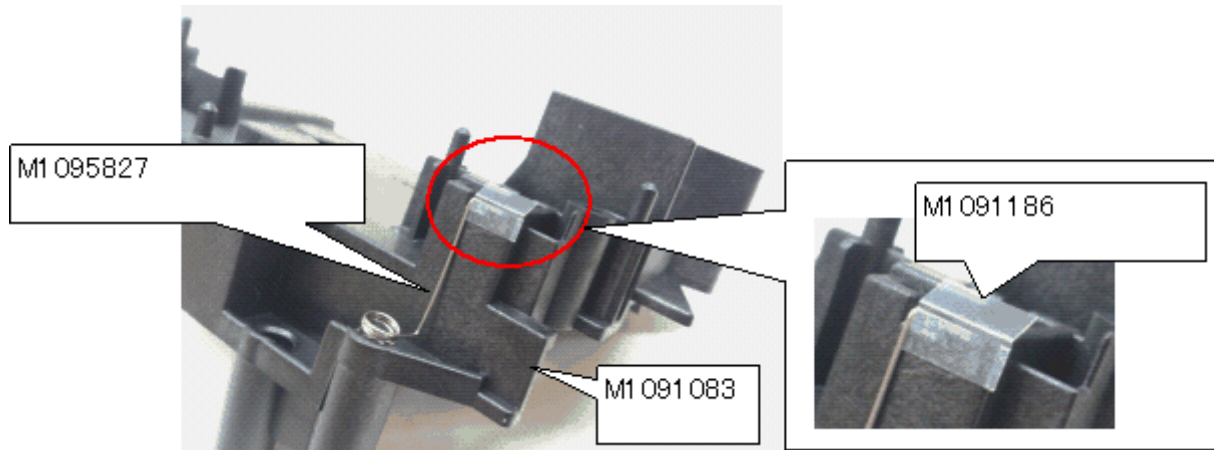
Reason: To facilitate assembly on the production line.

Note: When the spacer was deleted from the production line, the shape of the Left Stand Fix (P/N: M1091083) was changed. The P/N for this part was not changed. **See the photographs below.**

Model: Ti-P1

Date: 1-Oct-13

No.: RM109023



Shape change of the Left Stand Fix (P/N: M1091083):

1. The width of the ditch on the Left Stand Fix for the spring was reduced from 2.4mm to 1mm.
2. The height of the white portion on the Left Stand Fix was increased by 0.1mm.

Note: The actual color of this white portion is black.

Model: Ti-P1

Date: 1-Oct-13

No.: RM109023

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413R600005
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413R660184
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413R650034

Model: Ti-P1		Date: 1-Oct-13	No.: RM109024
Subject: Spacers in Toner Supply Drive Bracket		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
H0722236		SPACER - M12X6.2	4 – 0		

Change: The M12x6.2 spacer located between the gear and clutch was deleted from the production line.

However, this part is still available for order to use on old machines in the field (machines produced before the production line change).

Reason: To facilitate assembly on the production line.

Note: This spacer was originally added from first production in order to reduce noise generated by the gear and clutch. When the spacer was deleted from the production line, the shape of the Toner Supply Drive Bracket (P/N: M1091135) was changed. The P/N for this part was not changed. **See the photographs below.**

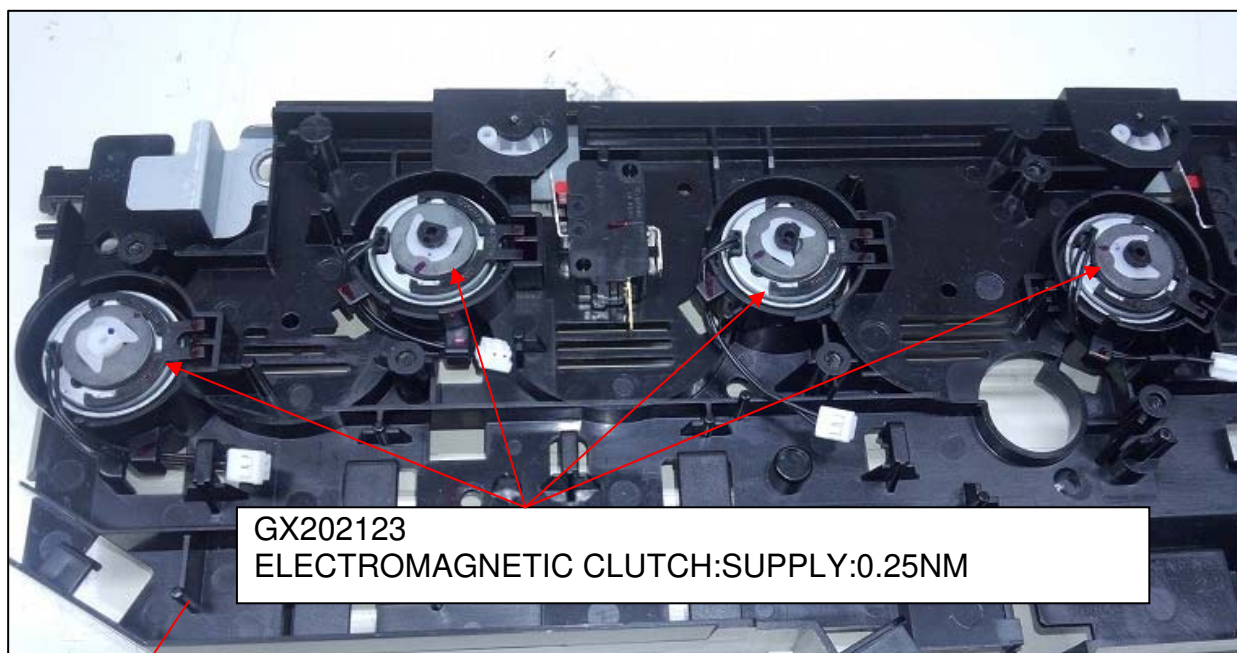
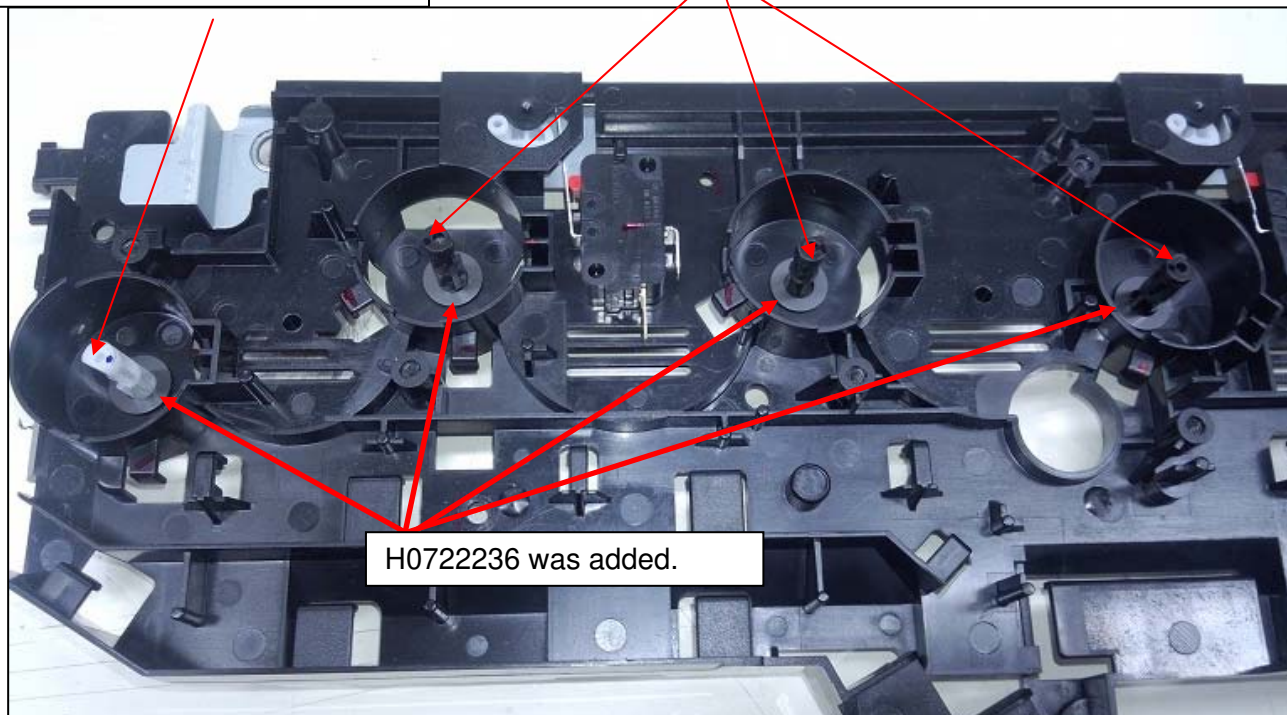
Model: Ti-P1

Date: 1-Oct-13

No.: RM109024

GB013123
GEAR:SUPPLY:ELECTRO
MAGNETIC
CLUTCH:YELLOW

GB013126
GEAR:SUPPLY:ELECTROMAGNETIC CLUTCH



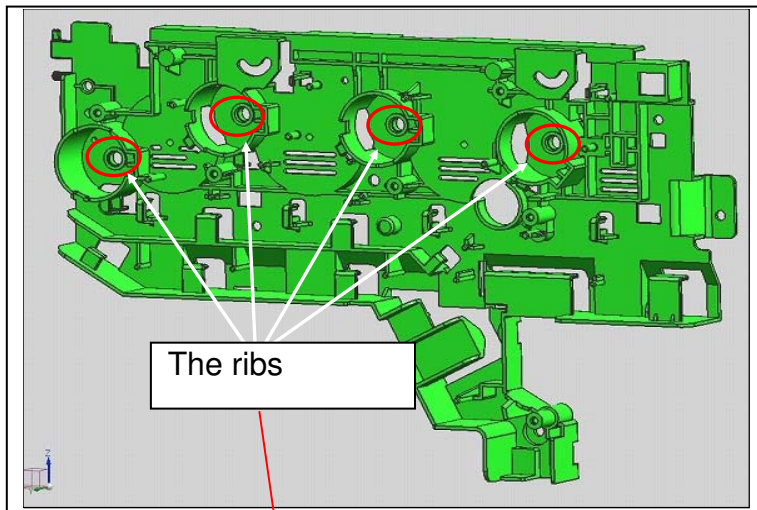
GX202123
ELECTROMAGNETIC CLUTCH:SUPPLY:0.25NM

M1091135: BRACKET:DRIVE:TONER SUPPLY:ASS'Y

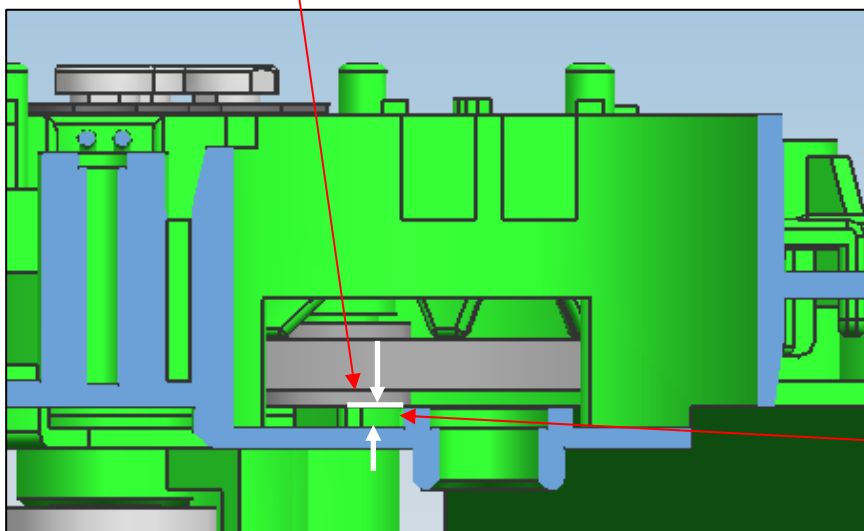
Model: Ti-P1

Date: 1-Oct-13

No.: RM109024



M1091135:
BRACKET:DRIVE:TONER
SUPPLY:ASS'Y



Height of rib on toner
supply drive bracket
increased:
 $0.85 \pm 0.1 \rightarrow 1.15 \pm 0.1$

Model: Ti-P1

Date: 1-Oct-13

No.: RM109024

RMT (Thailand) Production

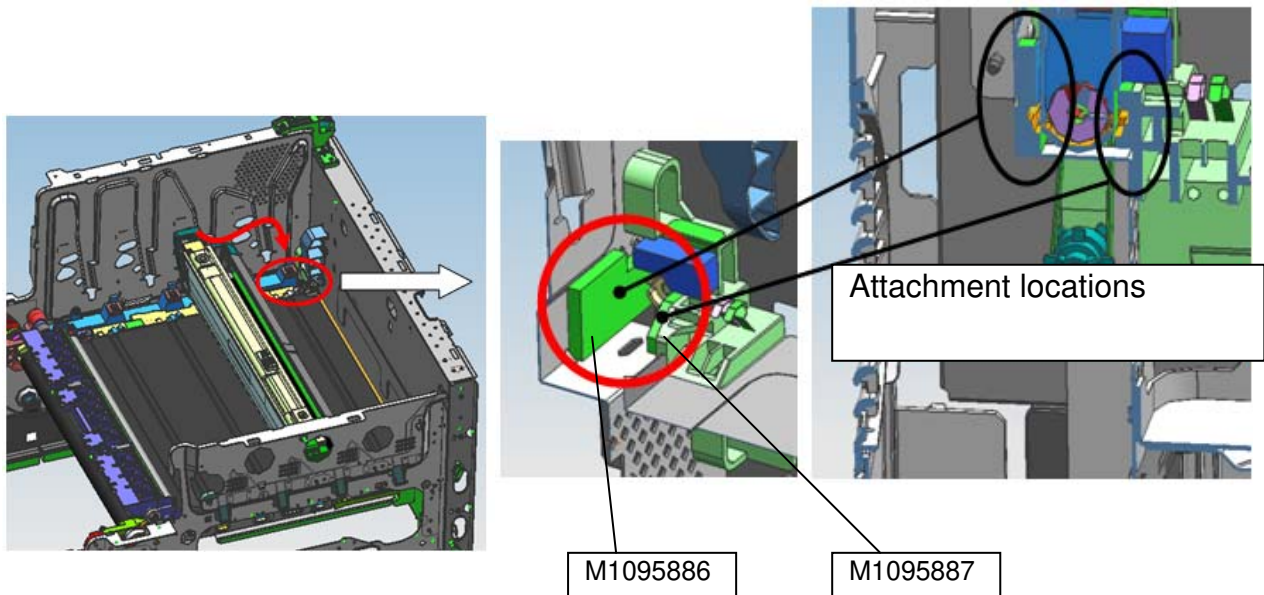
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413R8XXXXX
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413R8XXXXX
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413R8XXXXX

Model: Ti-P1		Date: 2-Oct-13	No.: RM109025
Subject: Seals on ITB Holder		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
	M1095886	SEAL:USED TONER:A	0 - 1		
	M1095887	SEAL:USED TONER:B	0 - 1		

Change: Two seals were added to the waste toner duct section.

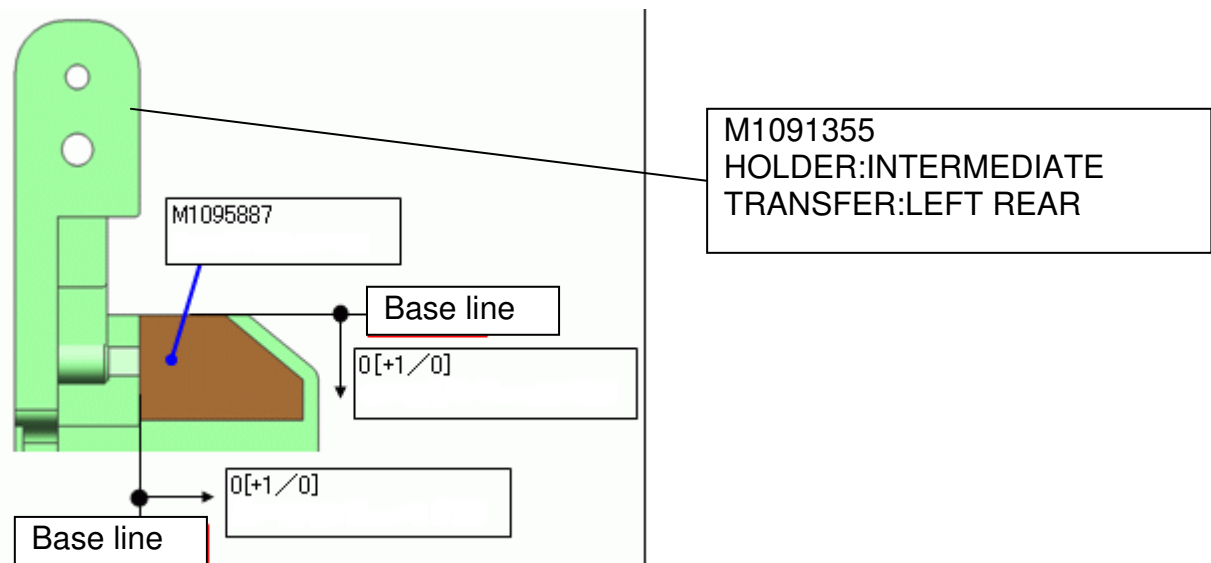
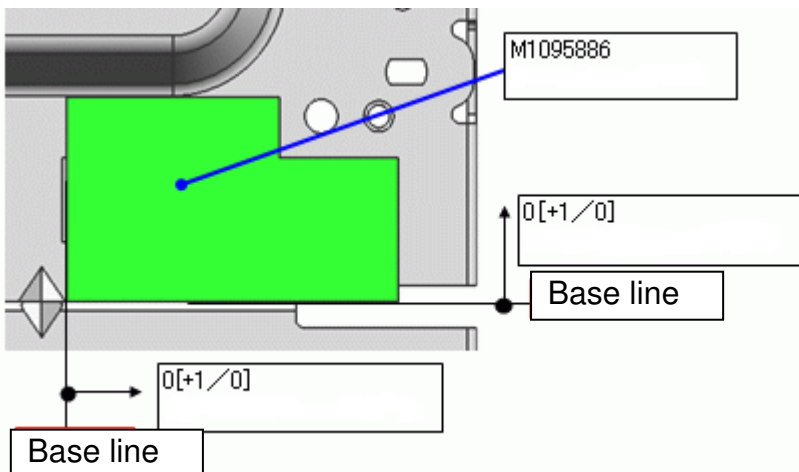
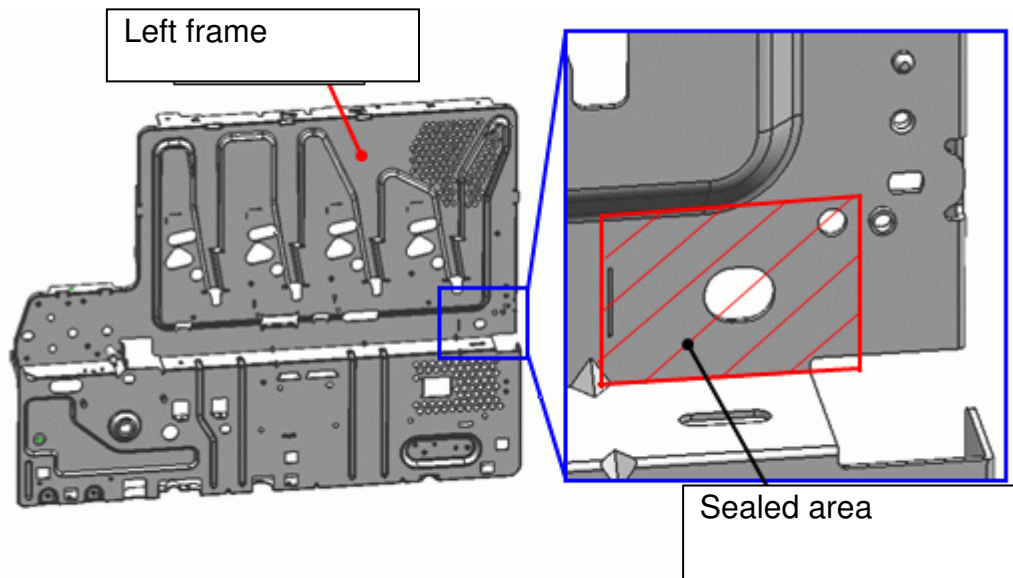
Reason: To further improve the sealing of the waste toner duct section.



Model: Ti-P1

Date: 2-Oct-13

No.: RM109025



Model: Ti-P1

Date: 2-Oct-13

No.: RM109025

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413R700001
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413R560031
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413R850001

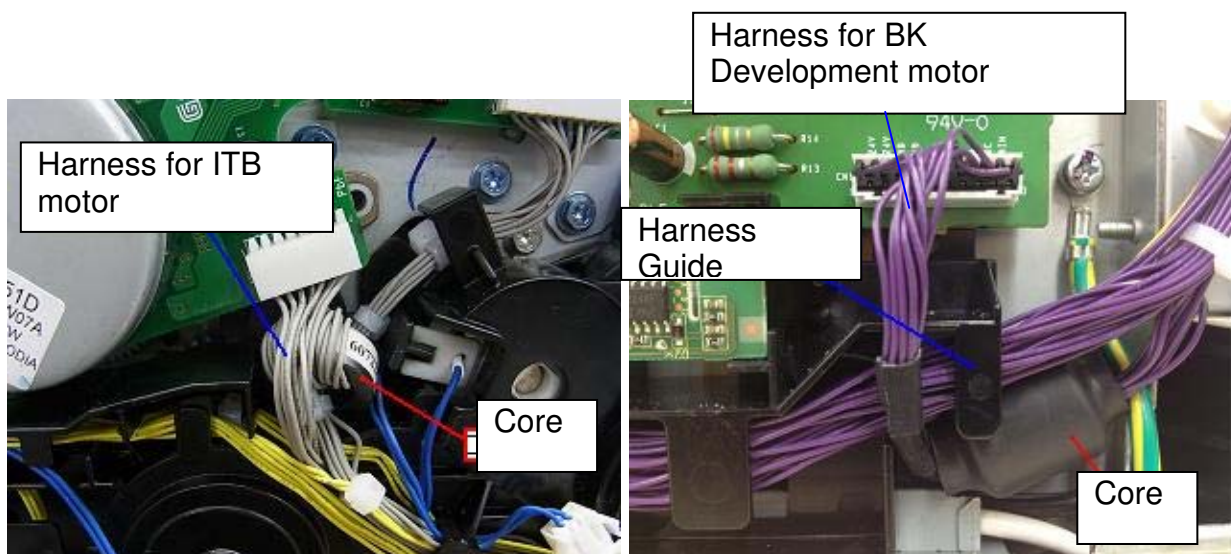
Model: Ti-P1		Date: 2-Oct-13	No.: RM109026
Subject: Lower Drive EGB Harness		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

The following applies to the **EU version (M109-27) only**:

Old part number	New part number	Description	Q'ty	Int	Note
M1095454	M1095468	HARNESS:EGB:DRIVE:LOWER WITH CORE	1 - 1	X/O	M109-27 only

Change: Two ferrite cores were added to the lower drive EGB harness.

Reason: To further minimize electromagnetic interference.



Model: Ti-P1

Date: 2-Oct-13

No.: RM109026

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413R560031
Ricoh: Aficio SP C730DN	220/50	China	M109-21	

Model: Ti-P1		Date: 8-Oct-13	No.: RM109027
Subject: PCDU Distances		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Important Information about Installing a Used PCDU

- From the firmware versions mentioned below, it is possible to enter the PCDU distances on the SP Mode Data Logging Sheet for each color. Do this in cases where a new PCDU is defective and you need to re-install an old PCDU.
- It is necessary to input these distances so that the machine applies the correct bias control to the used PCDU. (The machine applies a different bias control when it detects a brand new unit).
- Use the following firmware versions and SP modes:

Firmware:

Engine 1.60:16 or later and **System 1.08** or later, **used in combination**

SP modes (PCDU Distances):

SP 7 803 031 (Dist: PDCU: Bk)

SP 7 803 032 (Dist: PDCU: C)

SP 7 803 033 (Dist: PDCU: M)

SP 7 803 034 (Dist: PDCU: Y)

Model: Ti-P1		Date: 30-Oct-13	No.: RM109028
Subject: PCDUs		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
M8920136	M8920148	PCU:C_EXP:ASS'Y	1 - 1	X/O	A to B
M8920137	M8920149	PCU:M_EXP:ASS'Y	1 - 1	X/O	
M8920138	M8920150	PCU:Y_EXP:ASS'Y	1 - 1	X/O	
M8920148	M8920162	PCU:C_EXP:ASS'Y	1 - 1	X/O	B to C
M8920149	M8920163	PCU:M_EXP:ASS'Y	1 - 1	X/O	
M8920150	M8920164	PCU:Y_EXP:ASS'Y	1 - 1	X/O	

Note: Due to the **Reason** explained below, PCUs with “**A**” part numbers are the **same** as those with “**C**” part numbers (C, M, Y).

Change: Part number change only.

Reason:

- Part numbers **A**→**B**:
A modification was planned to improve parts durability, but was cancelled because of potential side effects.
- Part numbers **B**→**C**:
The PCU was returned to its original condition, but a new part number (**C**) was assigned.
- The interchangeability between A and C is O/O.

A	B	C
M8920136	M8920148	M8920162
M8920137	M8920149	M8920163
M8920138	M8920150	M8920164

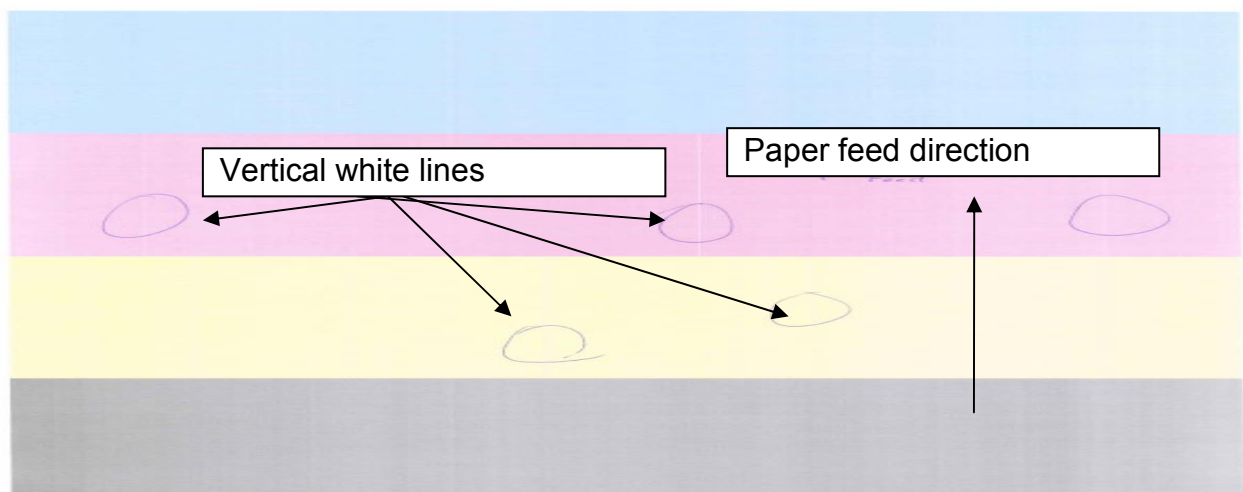
Model: Ti-P1		Date: 5-Dec-13	No.: RM109029
Subject: Toner Refreshing mode for Vertical White Lines		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other ()	<input checked="" type="checkbox"/> Tier 2

SYMPTOM

Vertical white lines may appear along the paper feed direction, especially in yellow and/or magenta image areas.

Conditions:

- The lines appear shortly after a new PCDDU is installed
- The average image coverage ratio is 2% or lower



CAUSE

A small amount of toner softens and gets caught in clumps between the development blade and development roller.

SOLUTION

Production line

The Engine firmware was modified to **Ver.1.60:16**, and the System firmware was modified to **Ver1.08** from August 2013 production.

Note:

- Toner refresh mode is performed six times more than with previous versions. Toner refreshing is performed every 30m from the time a new CMY PCDU is installed if the average coverage of each sheet is 3.4% or less. With previous versions, the toner refresh mode was not carried out until 200m of printing following the installation of a new PCDU (approx. 315 sheets of A4 at 3P/J).
- A new SP mode was added for an additional refresh mode (4.5%).
- This new firmware reduces the possibility of occurrence, but may not completely solve the symptom.

SP2500-012 Data UC2

[0 to 255 / **0** / 1 /step]

0: Normal refresh mode (default: 3.4%): Toner refreshing is performed every 30m if the average coverage of each sheet is 3.4% or less.

1: Additional refresh mode (4.5%): Toner refreshing is performed every 15m if the average coverage of each sheet is 4.5% or less.

In the field

1. Check the following SP mode logging data and calculate the average coverage for each color. Make sure that the average image coverage ratio is **2% or less** for the color on which the symptom occurs.

SP8921-02 /SP8601-12 = (Coverage (%): Y) / (Coverage FC page)

SP8921-03 /SP8601-12 = (Coverage (%): M) / (Coverage FC page)

SP8921-04 /SP8601-12 = (Coverage (%): C) / (Coverage FC page)

SP8921-01 / (SP8601-12 + SP8601-11) = (Coverage (%): BK) / {(Coverage FC page) + (Coverage BW page)}

2. Update the Engine firmware to **Ver1.60:16** or newer and the System firmware to **Ver.1.08** or newer. Replace the PCDUs on which the symptom occurs.

Model: Ti-P1

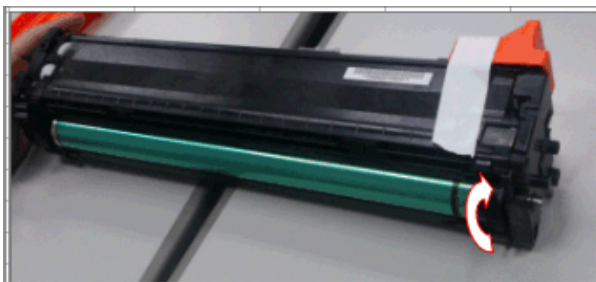
Date: 5-Dec-13

No.: RM109029

3. If the problem is not solved, set **SP2500-012** (Data UC2) to a value of **1**. With this setting, the machine will consume more toner than with the default setting. Advise customers that the toner and waste toner bottle will need to be replaced earlier with this setting.

Note:

1. The above action reduces the possibility of occurrence. However, clumped toner may still form between the development blade and development roller. Please ask for the customer's understanding regarding this.
2. The clumped toner can be cleared manually by rotating the development roller in the reverse direction about 5 mm, as shown in the photo. The symptom may occur until this clumped toner is removed from the PCDU.

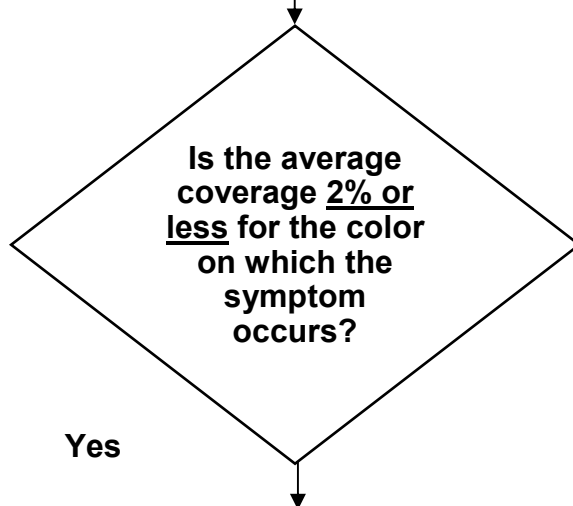


Model: Ti-P1

Date: 5-Dec-13

No.: RM109029

- Print out the logging data (SP5990-04).
- Check SP8921-01 to - 04 and SP8601-12 , 11



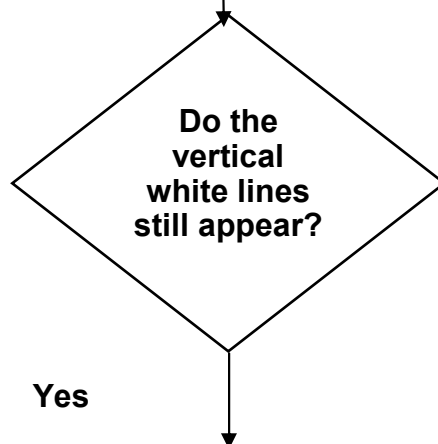
Is the average coverage 2% or less for the color on which the symptom occurs?

No

The symptom is occurring due to a different cause.

Yes

Update the Engine firmware to **Ver.1.60:16** or newer and the System firmware to **Ver.1.08** or newer. Replace the PCDUs on which the symptom occurs.



Do the vertical white lines still appear?

No

FINISH

Yes

- Set **SP2500-012** (Data UC2) to a value of **1**.
 - Advise customers that the toner and waste toner bottle will need to be replaced earlier with this setting.
- FINISH**

Model: Ti-P1		Date: 13-Dec-13	No.: RM109030
Subject: Changing PCDU Replacement Alert Timing		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Changing the Replacement Alert Timing for the PCDU (Black/White Lines Issue)

- The Replacement alert for the PCDU can be displayed earlier with Engine firmware **Ver.1.90:16** (applied from December 2013 production). This is to prompt the customer to replace the unit before the black/white lines issue occurs. In combination with stocking units on site in advance, this will prevent service visits.
- The target yield of the PCDU is 38KP, but black/white lines (feed direction: Medaka) before 38KP have been reported from the field in Japan.
- To accomplish this, new SP modes were added from the new firmware.

Procedure

1. First, explain to the customer that the alert will be displayed at 7KP, and that PCDUs need to be prepared in advance.
2. Update the Engine firmware to **Ver1.90:16** or newer.
3. Set **SP2-500-013** to "1".
4. Exit SP mode and turn the main power switch OFF/ON.

SP No.	Indication of SP mode	Description	Settings
SP2-500-013	Engine Setting Data UC3	Changes timing of PCDU replacement alert.	0 (default): 38 [KP] 1 : Following settings of SP2-500-014 and -015 .
SP2-500-014	Engine Setting Data UC4	Adjusts PCDU replacement alert for BK units.	See Table 1
SP2-500-015	Engine Setting Data UC5	Adjusts PCDU replacement alert for color units.	See Table 1

Model: Ti-P1

Date: 13-Dec-13

No.: RM109030

Table 1

Alert timing [KP]	SP setting	Default <Bk> SP2-500- 014	Default <Color> SP2-500- 015
3	0		
	1		
	2		
	3		
4	4		
5	5		
6	6		
7	7	Default	Default
8	8		
9	9		
10	10		
11	11		
12	12		
13	13		
14	14		
15	15		
16	16		
17	17		
18	18		
19	19		
20	20		
21	21		
22	22		
23	23		
24	24		
25	25		
26	26		
27	27		
28	28		
29	29		
30	30		
31	31		
32	32		
33	33		
34	34		
35	35		
36	36		
37	37		
38	38		
39	39		
40	40		

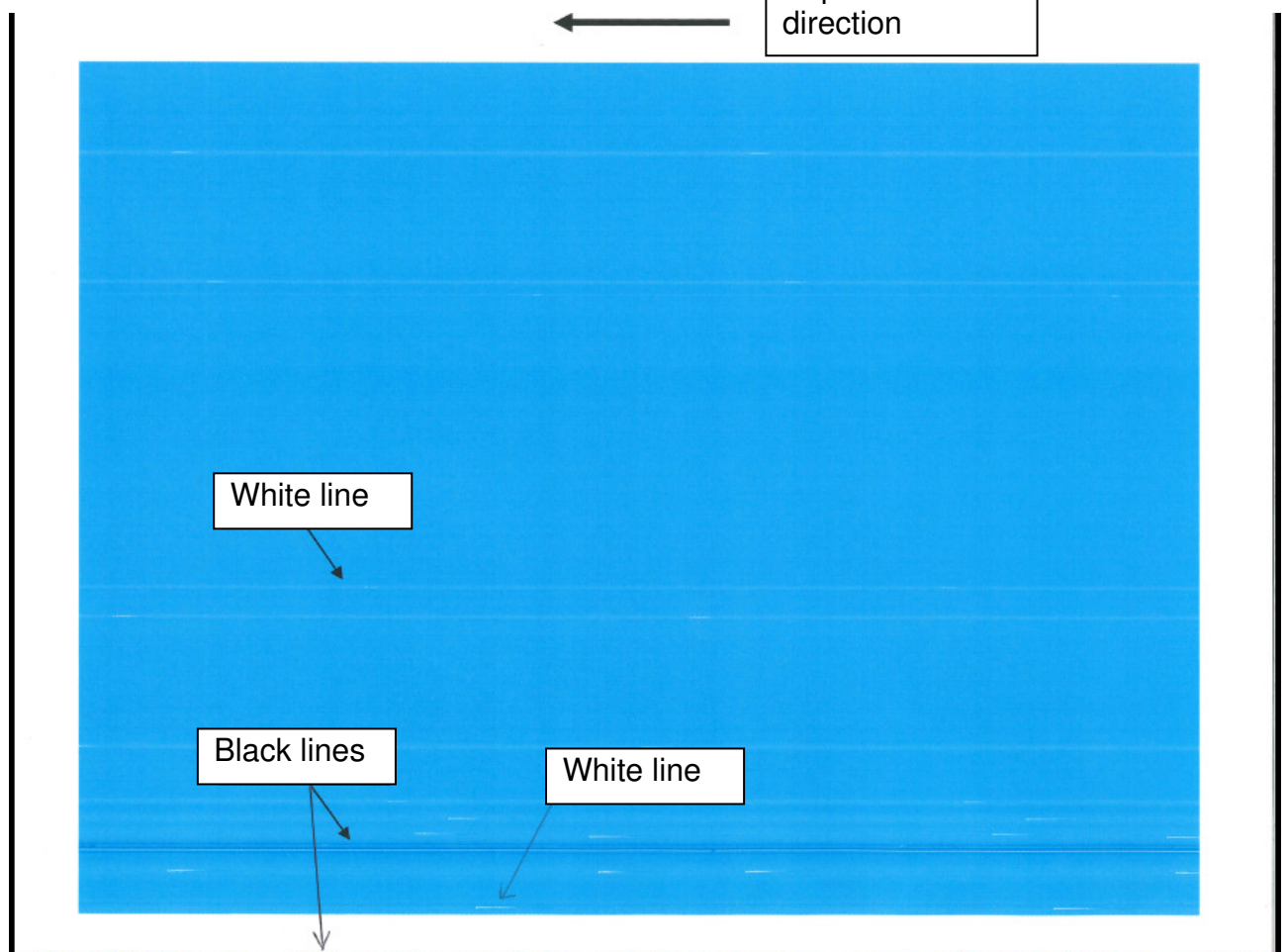
Model: Ti-P1	Date: 13-Dec-13	No.: RM109030
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41	41		
42	42		
43	43		
44	44		
45	45		
46	46		
47	47		
48	48		
49	49		
50	50		

Symptom:

Black/ white lines appear (feed direction: Medaka)

Paper feed
direction



Model: Ti-P1		Date: 17-Dec-13	No.: RM109031
Subject: Protect Surface of ITB		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M1095784	M1115891	HOLDER:CLEANER:DENSITY SENSOR:RIGHT	2 - 2	X/X			X/O as a set
	M1115888	CUSHION:FLAT BELT-TRANSFER	0 - 2				

Change:

- 1) A cushion was added to the right density sensor cleaner holder.
- 2) The shape of this holder was changed.

Reason: To protect the surface of the ITB when it is installed into the printer at an angle.

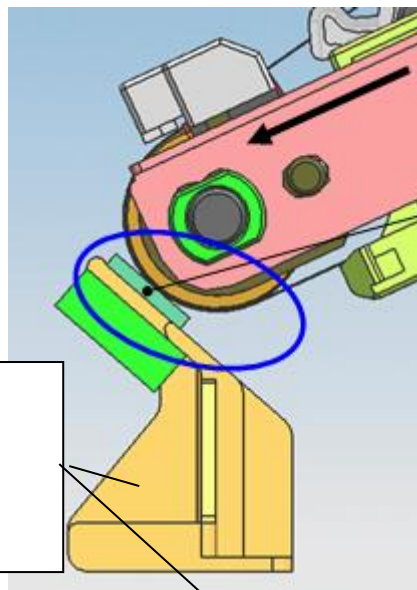
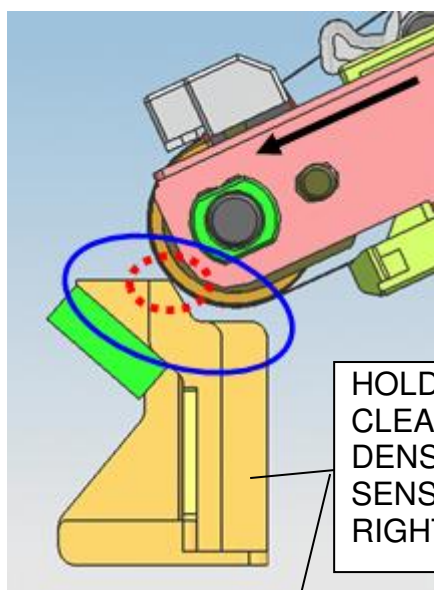
Note: The normal way to insert the ITB is horizontally.

IMPORTANT: If you need to replace the old Right Density Sensor Cleaner Holder in the field, make sure to install the new Right Density Sensor Cleaner Holder and new cushion **together as a set**.

Model: Ti-P1

Date: 17-Dec-13

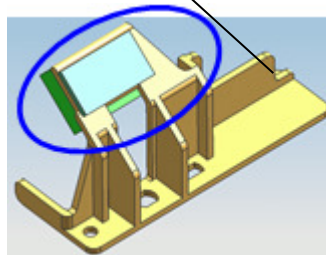
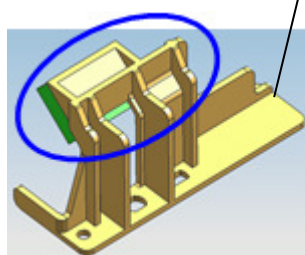
No.: RM109031



The ITB is sometimes inserted at an angle

CUSHION: FLAT BELT-TRANSFER

HOLDER:
CLEANER:
DENSITY
SENSOR:
RIGHT



RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413RCxxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413RCxxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413RCxxxxx

Model: Ti-P1		Date: 17-Dec-13	No.: RM109032
Subject: Upper Cover		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
M1091218	M1091214	COVER:UPPER	1 - 1	X/X	X/O as a set
M1091257	M1091265	SUPPORTING PLATE:COVER:UPPER	1 - 1	X/X	
M1091311	M1091542	PLATE:SAFETY SWITCH:COVER:UPPER	1 - 1	X/O	
04583008N		HEXAGON HEAD TAPPING SCREW:3X8	1 - 0		
	04583010N	HEXAGON HEAD TAPPING SCREW:3X10	5 - 6		
	M1091012	UPPER COVER ASS'Y	0 - 1		

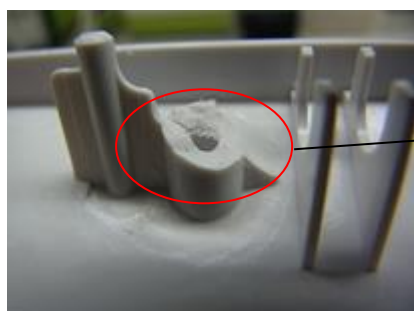
Change:

- 1) The shapes of the Upper Cover, Upper Cover Supporting Plate, and Upper Cover Safety Switch Plate were changed.
- 2) The Upper Cover Assembly was newly registered.

Note: This assembly includes the Upper Cover Supporting Plate and Upper Cover Safety Switch Plate.

Reason: To facilitate servicing in the field, as the bosses for the screw holes in the Upper Cover may break when screws are inserted.

Note: If you need to replace the old Upper Cover or old Upper Cover Supporting Plate in the field, make sure to install the new Upper Cover and new Upper Cover Supporting Plate **together as a set**.



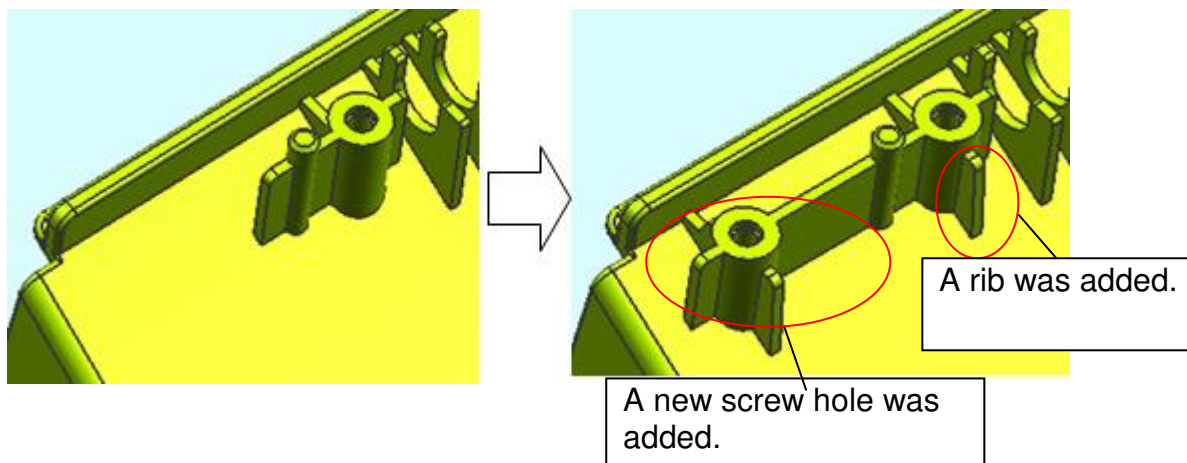
Broken boss

Model: Ti-P1

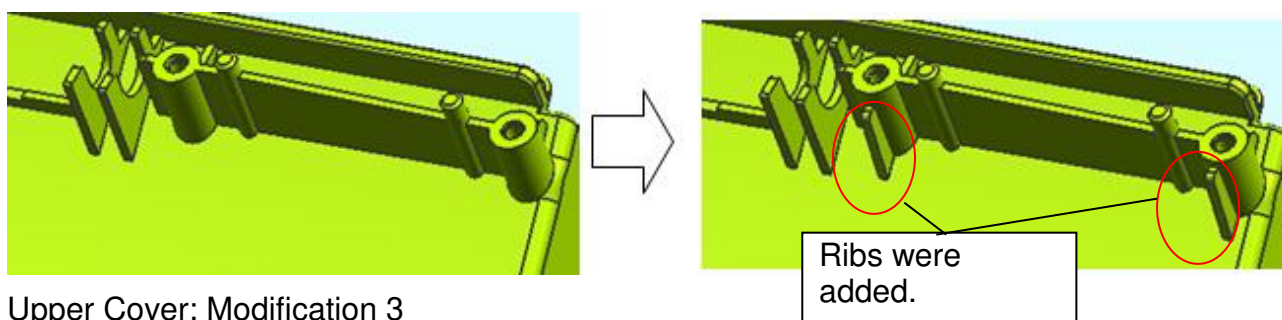
Date: 17-Dec-13

No.: RM109032

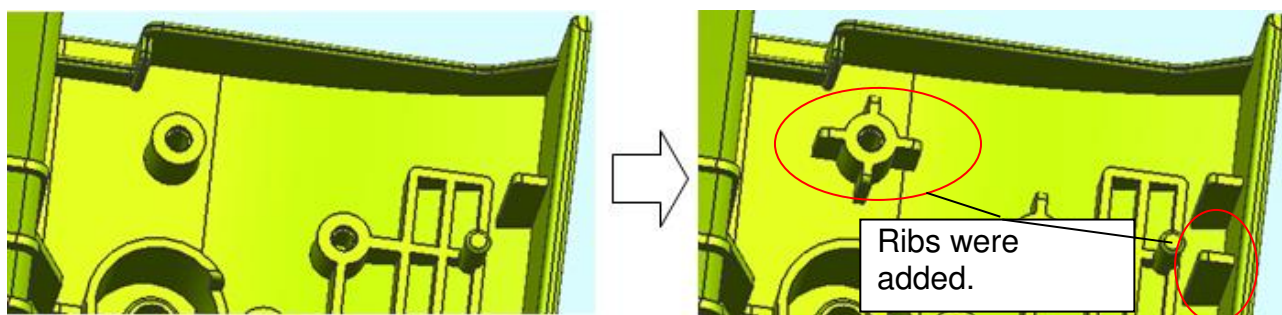
Upper Cover: Modification 1



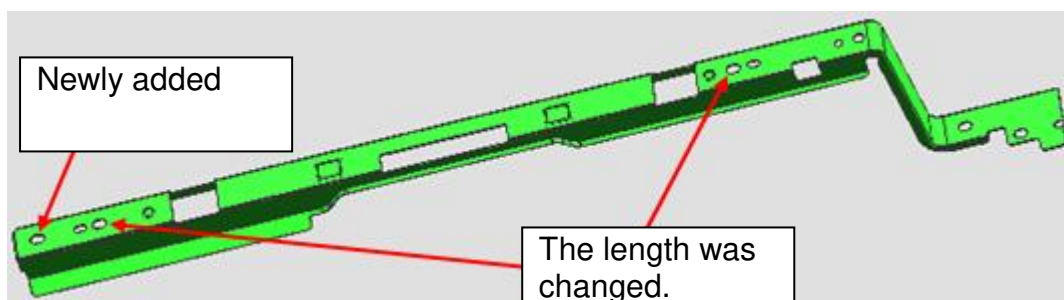
Upper Cover: Modification 2



Upper Cover: Modification 3



Upper Cover Supporting Plate

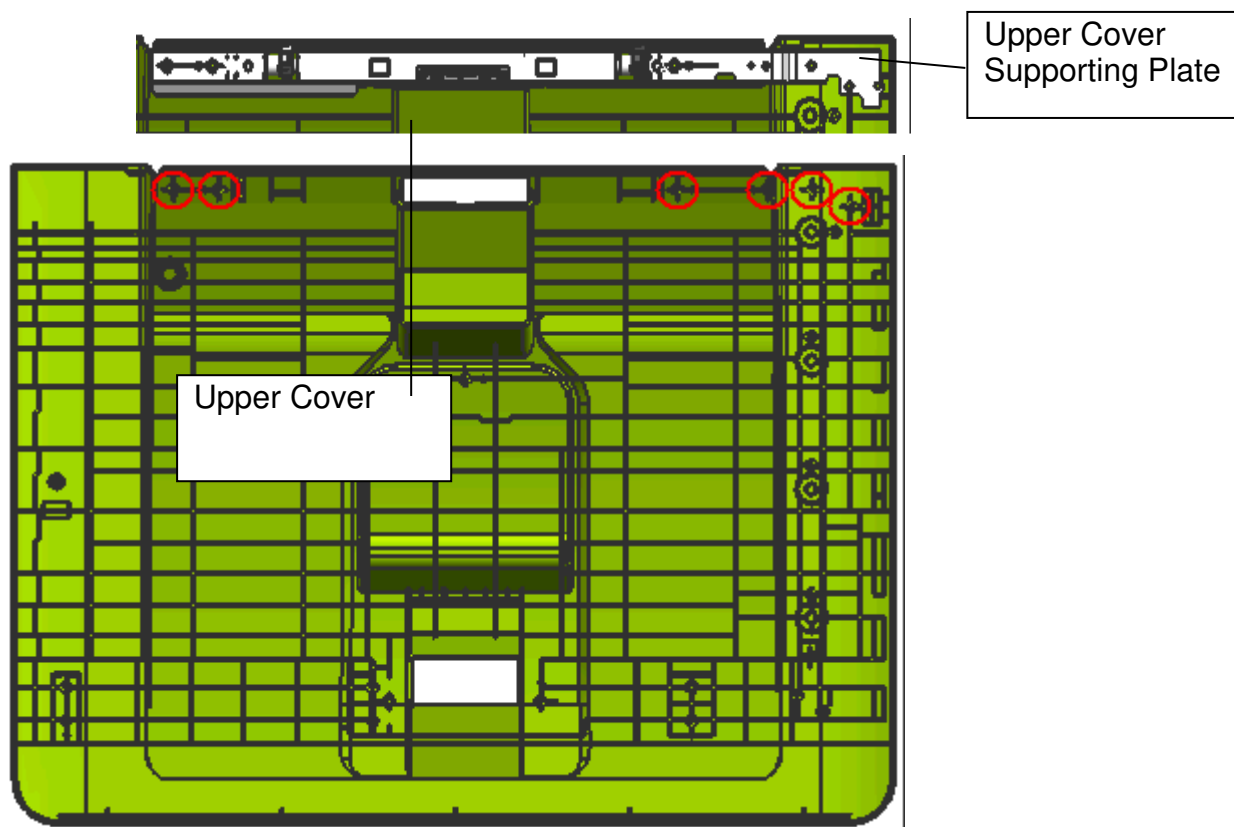


Model: Ti-P1

Date: 17-Dec-13

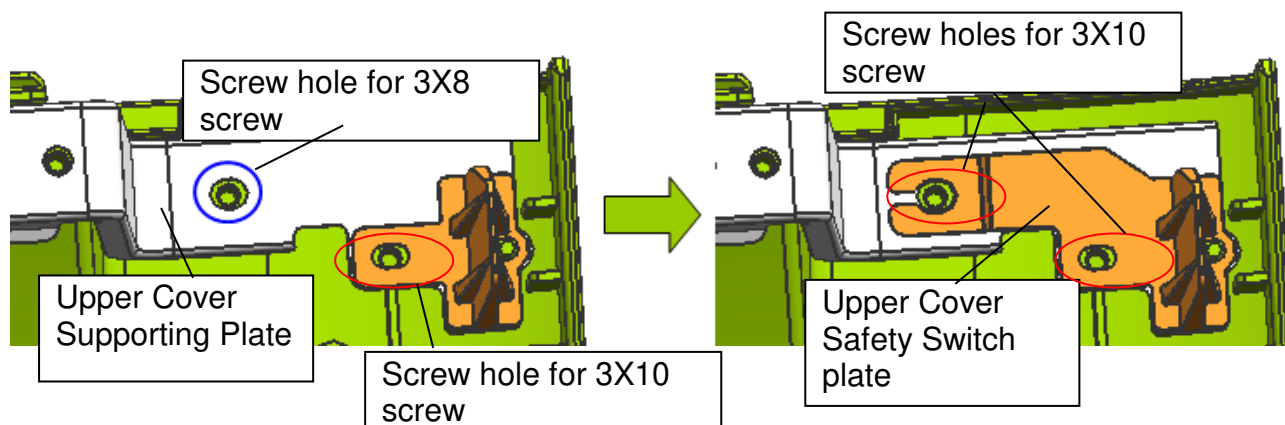
No.: RM109032

Note: The Upper Cover Supporting plate is attached to the Upper Cover with the Upper Cover Safety Switch Plate and six screws (04583010N: HEXAGON HEAD TAPPING SCREW:3X10).



Note:

- The 04583008N screw (HEXAGON HEAD TAPPING SCREW:3X8) was used for the screw hole in the old Upper Cover Supporting Plate. On the new plate, the shape of the Upper Cover Safety Switch Plate was changed.
- The Upper Cover Safety Switch Plate is assembled using the Upper Cover Supporting Plate and two screws (04583010N: HEXAGON HEAD TAPPING SCREW:3X10).

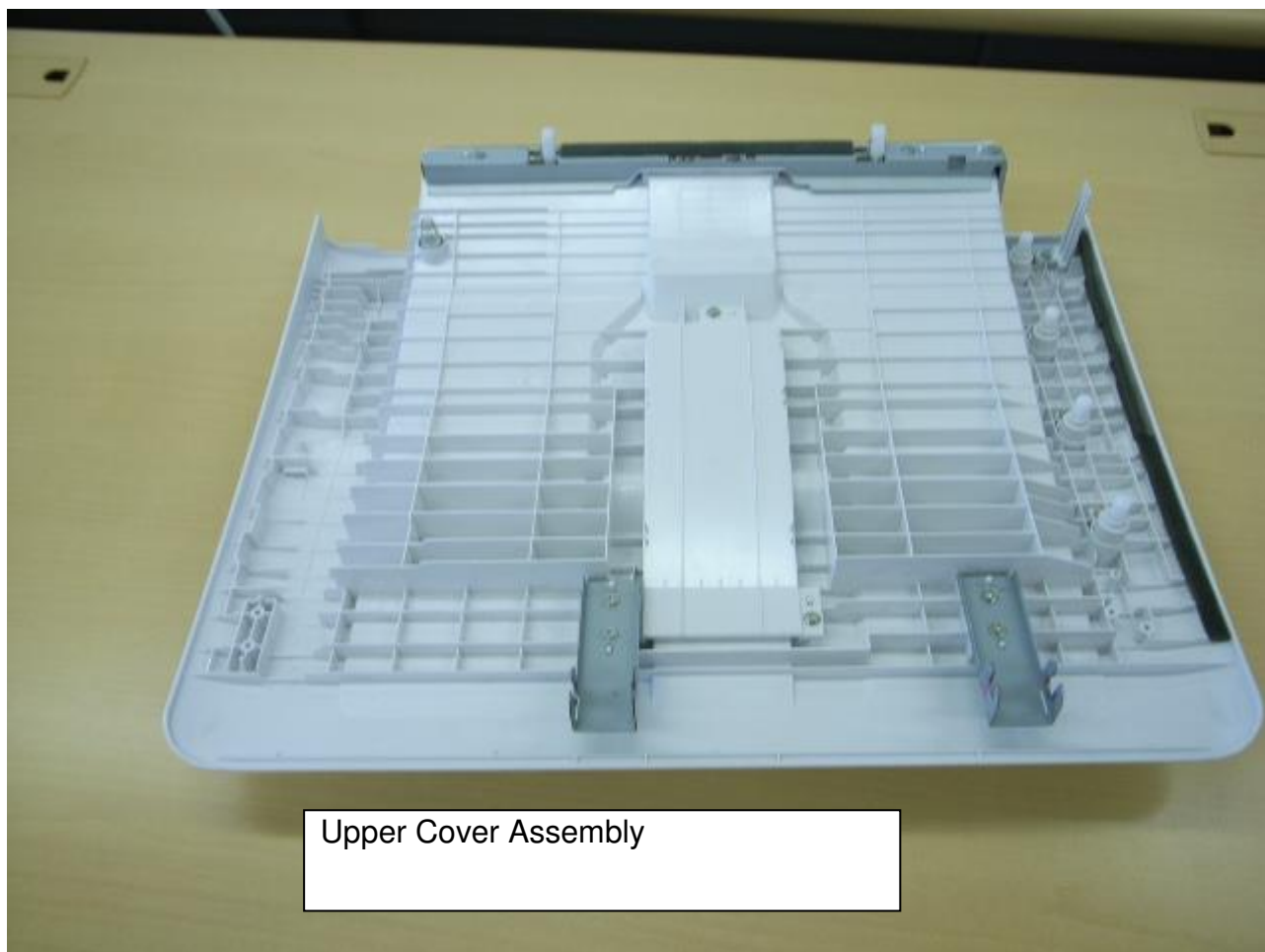


Model: Ti-P1

Date: 17-Dec-13

No.: RM109032

Upper Cover Assembly (newly registered)

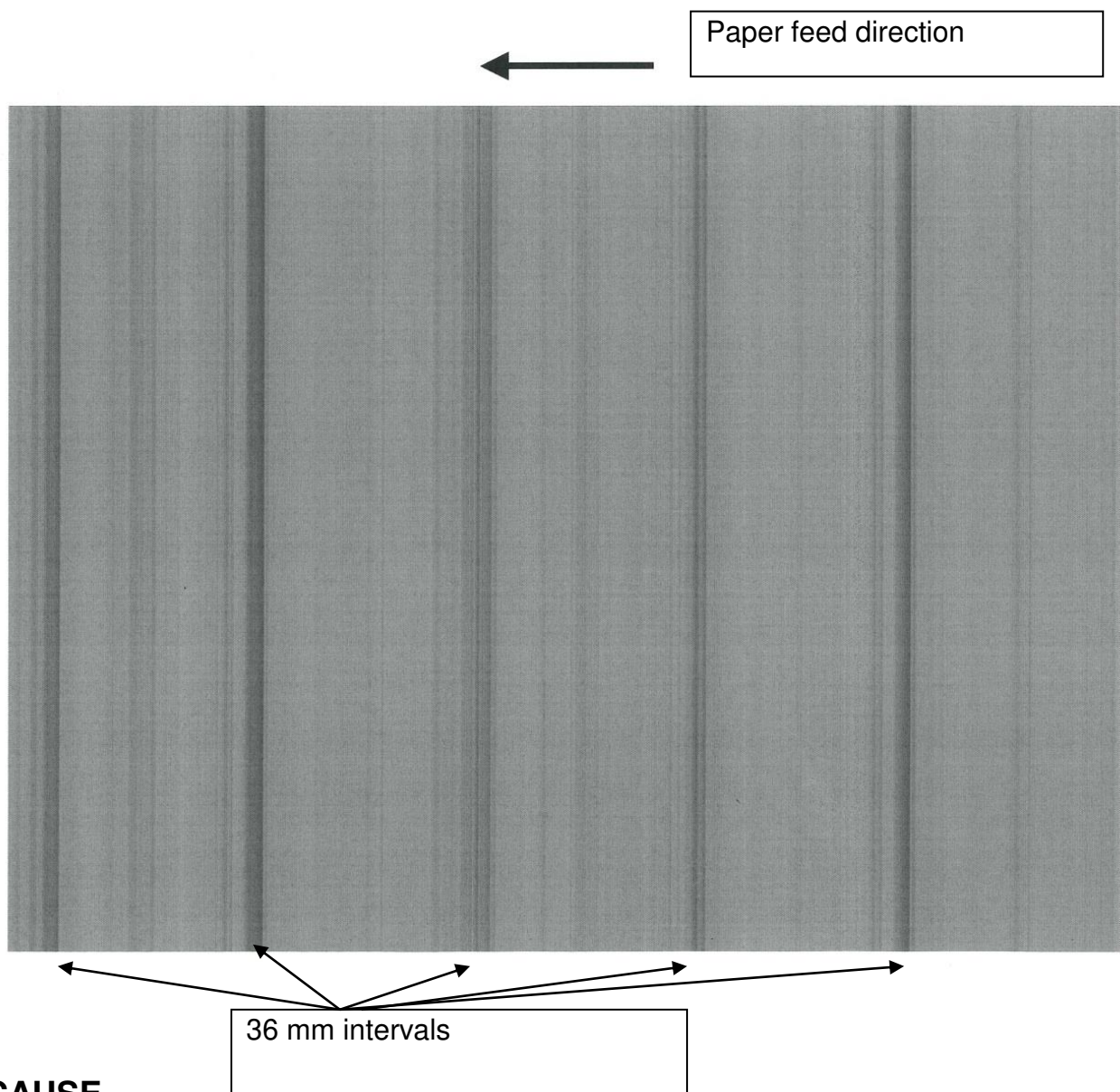

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413RCxxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413RCxxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413RCxxxxx

Model: Ti-P1		Date: 07-Mar-14	No.: RM109033
Subject: Lines at 36mm intervals or at random		Prepared by: H.K.	
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

SYMPTOM

Lines appear on the image at 36mm intervals or at random.



CAUSE

The development bias may not be applied correctly to the development roller.

Model: Ti-P1

Date: 07-Mar-14

No.: RM109033

SOLUTION

The PCDUs were changed as follows:

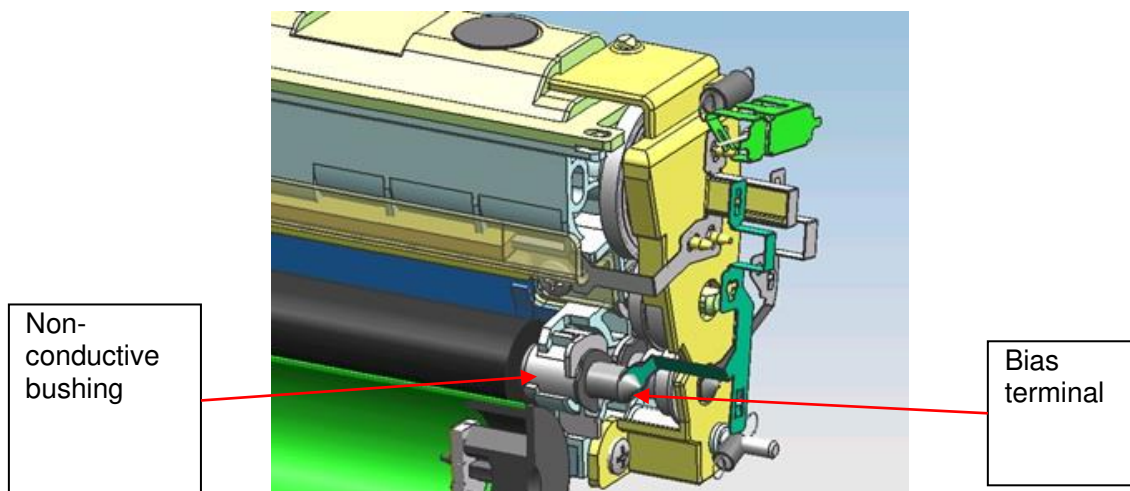
Old part number	New part number	Description	Q'ty	Int	Note
M8920162	M8920177	PCU:EXCHANGEABLE:C_EXP:ASS'Y	1 - 1	X/O	
M8920163	M8920178	PCU:EXCHANGEABLE:M_EXP:ASS'Y	1 - 1	X/O	
M8920164	M8920179	PCU:EXCHANGEABLE:Y_EXP:ASS'Y	1 - 1	X/O	

Change:

- 1) A second bias terminal was added (for application of the development bias).
- 2) The bushing for the development roller was changed from a non-conductive to conductive one.

Reason: To apply the development bias more consistently across the development roller surface.

Old PCDU



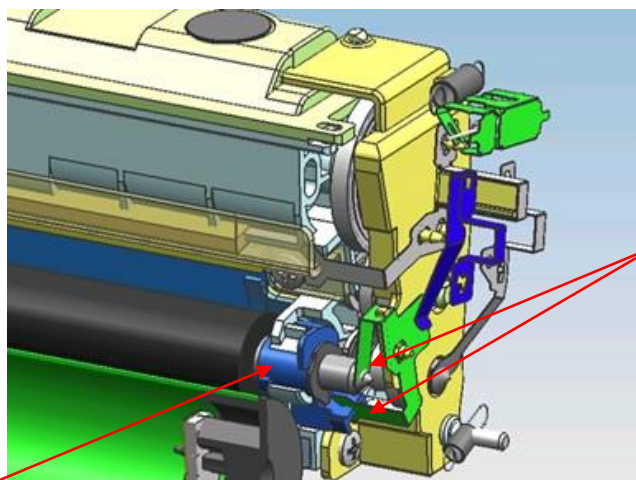
Model: Ti-P1

Date: 07-Mar-14

No.: RM109033

New PCDU

Conductive
bushing



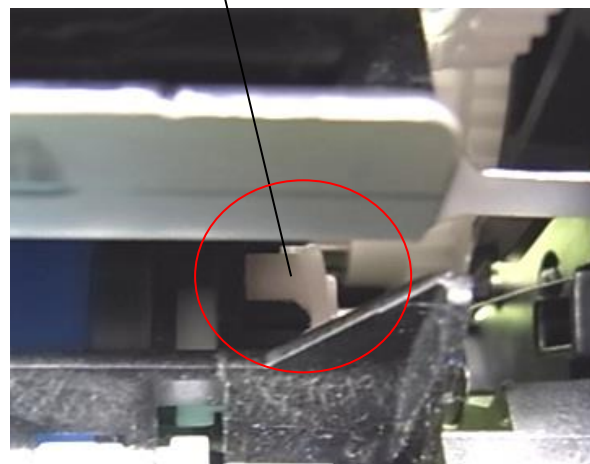
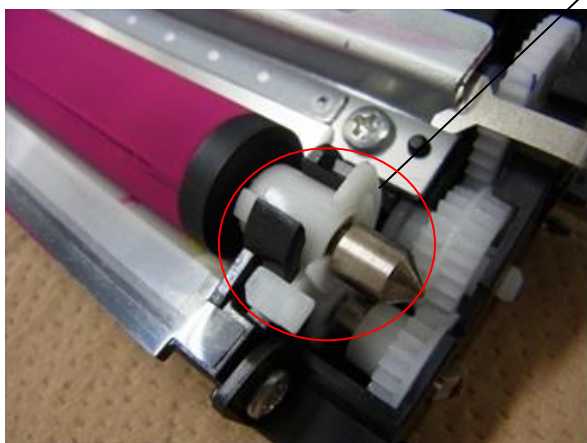
Two bias
terminals

Note: To distinguish the old parts from the new ones, the color of the bushing was changed from white to black.



White (old)
bushing

Old



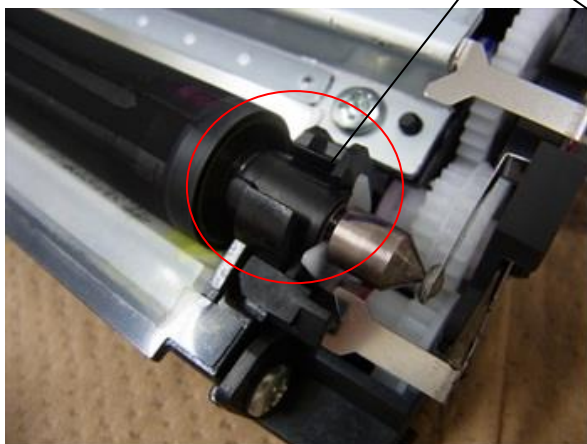
Model: Ti-P1

Date: 07-Mar-14

No.: RM109033

NEW:

Black bushing



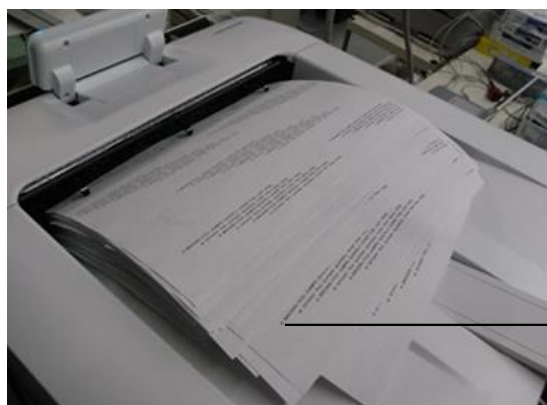
RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R1xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R1xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R1xxxxx

Model: Ti-P1		Date: 10-Mar-14	No.: RM109034
Subject: Poor Paper Stack		Prepared by: H.K.	
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 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

SYMPTOM

Poor stacking or a paper jam occurs at the exit tray when making duplex prints.



Poor stacking
(348 sheets)

CAUSE

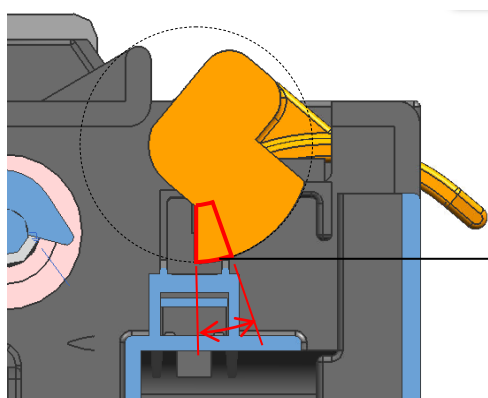
Curled sheets of paper push the paper stacked in the exit tray after the stack has reached 200 sheets. As a result, the detection of the tray full condition is delayed.

SOLUTION

Old part number	New part number	Description	Q'ty	Int	Note
M1094473	M1094462	FEELER:SENSOR:OVERFLOW	1 - 1	X/O	

Change: The shape of the feeler was changed so that the full condition is detected earlier.

Reason: (See above).



A portion of the overflow sensor
feeler was removed.

Model: Ti-P1

Date: 10-Mar-14

No.: RM109034

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413RAxxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413RAxxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413RAxxxxx

Model: Ti-P1		Date: 14-Mar-14	No.: RM109036
Subject: Power Pack		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
GZ300005	GZ300007	POWER PACK - C & B	1 - 1	X/O	

Change: The voltages supplied from the power pack for charging the Cyan development blade and toner supply roller were changed as follows:

- Development blade: -200V to -100V
- Toner supply roller: -250V to -150V

Reason: To further improve image quality.

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T413R800001
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T413R860160
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T413R850001

Model: Ti-P1		Date: 14-Mar-14	No.: RM109035
Subject: Vertical White Lines		Prepared by: H.K.	
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 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

SYMPTOM

Vertical white lines may appear on the paper under low-temperature, low-humidity conditions.

CAUSE

The ribs on the PTR exit guide may be charged by previous sheets under low-temperature, low-humidity conditions, which can remove the toner from the paper in these areas before the paper reaches the fusing unit.

SOLUTION

Old part number	New part number	Description	Q'ty	Int	Note
M8910620	M8910621	SECOND TRANSFER ROLLER UNIT	1 - 1	X/O	

Change: The material of the PTR exit guide was changed.

Note: This is a solution for No.13 in the User/Sales/Service remarks (limitation) list.

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R1xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R1xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R1xxxxx

Model: Ti-P1

Date: 11-Apr-14

No.: RM109037

Subject: Color Calibration Sheet

Prepared by: H.K.

From: 3rd Tech Service Sect., MFP/P Tech Service Dept.

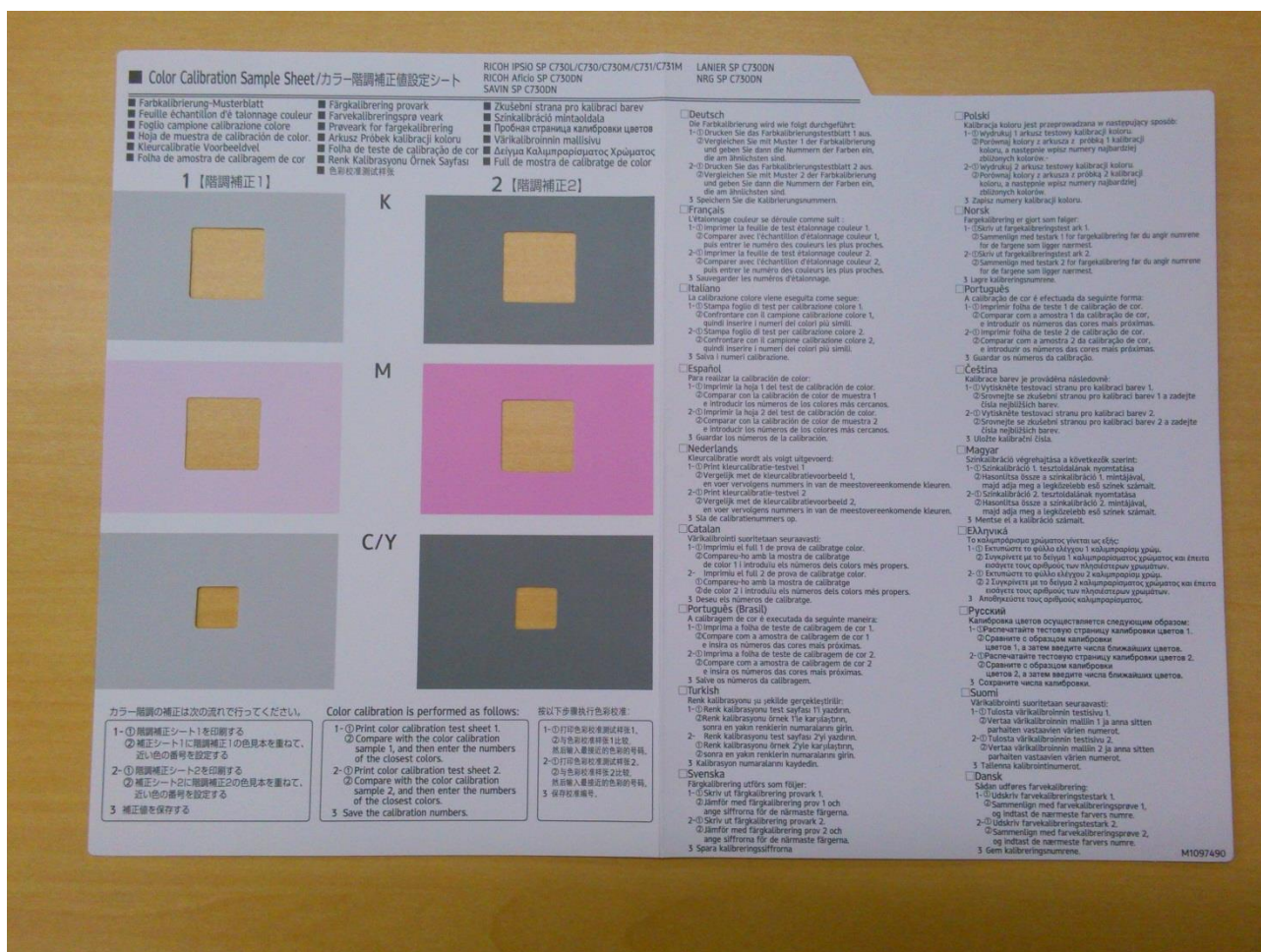
Classification:

☒ Troubleshooting☐ Mechanical☐ Paper path☐ Product Safety☒ Part information☐ Electrical☐ Transmit/receive☐ Other ()☐ Action required☐ Service manual revision☐ Retrofit information☒ Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
	M1097490	COLOR CALIBRATION SHEET:TI-P1	0 - 1		

Change: The Color Calibration Sheet was newly registered**Note:** This chart is not included with the machine.**Reason:** Requests from the field for a Color Calibration Sheet for manual color gradation correction.**SEE PROCEDURE ON NEXT PAGE.**

Color Calibration Sheet



PROCEDURES for Automatic and Manual Corrections

Two methods are available for color gradation correction: automatic correction and manual correction by printing a gradation correction sheet. To perform automatic correction, execute [Auto ImgDensAdj&ColrCalib] in [Quality Maintenance] under [Maintenance]. If the problem persists, perform manual correction as shown.

Automatic density correction

1. Access the following:
[Menu] – [Maintenance] – [Quality Maintenance] – [Color Calibration]
2. Select “Adjust Auto Density”.

Manual correction

1. Access the following:
[Menu] – [Maintenance] – [Quality Maintenance] – [Color Calibration]
2. Select [Print Test Pattern 1], and then tap [OK].
3. Tap [Print].
4. Compare the colors on test pattern sheet 1 with the colors on the Color Calibration sheet.
Note: When the selected sheet is printed, a confirmation message will appear.
5. Tap [Continue].
6. Select the color you want to adjust, and then tap [OK].
7. Adjust the correction value, and then tap [OK].
8. Tap [Result].
9. Print out test pattern sheet 1 and check the results.
10. Tap [Yes] to save the settings when the adjustment is completed.

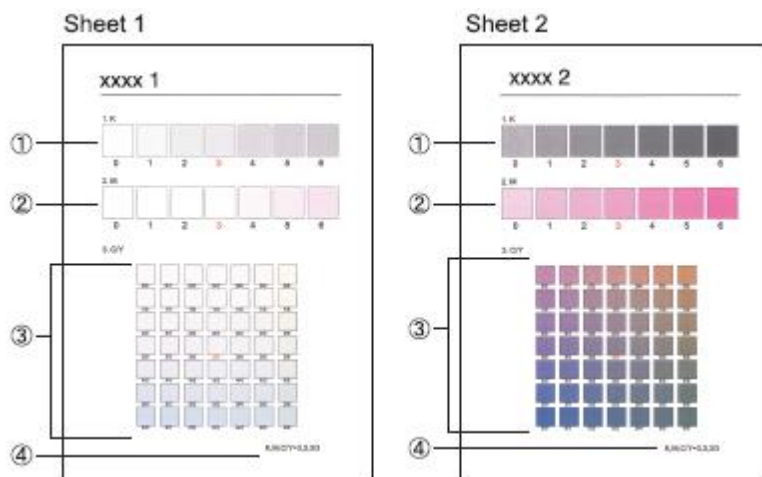
- Important:** If the further adjustment is necessary, go back to Step 2.
11. Select [Print Test Pattern 2], and then tap [OK].

Model: Ti-P1

Date: 11-Apr-14

No.: RM109037

12. Adjust the mid-tones on test pattern sheet 2. Do this by repeating the procedure you used to adjust the color values on test pattern sheet 1.



Guide:

1) K (black) correction value

This is used to adjust the color printed when only black toner is used. The current correction value appears in red.

2) M (magenta) correction value

This is used to adjust the color printed when only magenta toner is used. The current correction value appears in red.

3) C (cyan)/Y (yellow) correction value

This is used to correct the colors printed when cyan and yellow toner are used. For C/Y (cyan/yellow), the correction value is determined based on a combination of these two colors. The operation panel settings are configured for each color.

4) Setting value

The value displayed is the current value (as of the time the gradation correction sheet is printed out). This value corresponds to the value set using the control panel.

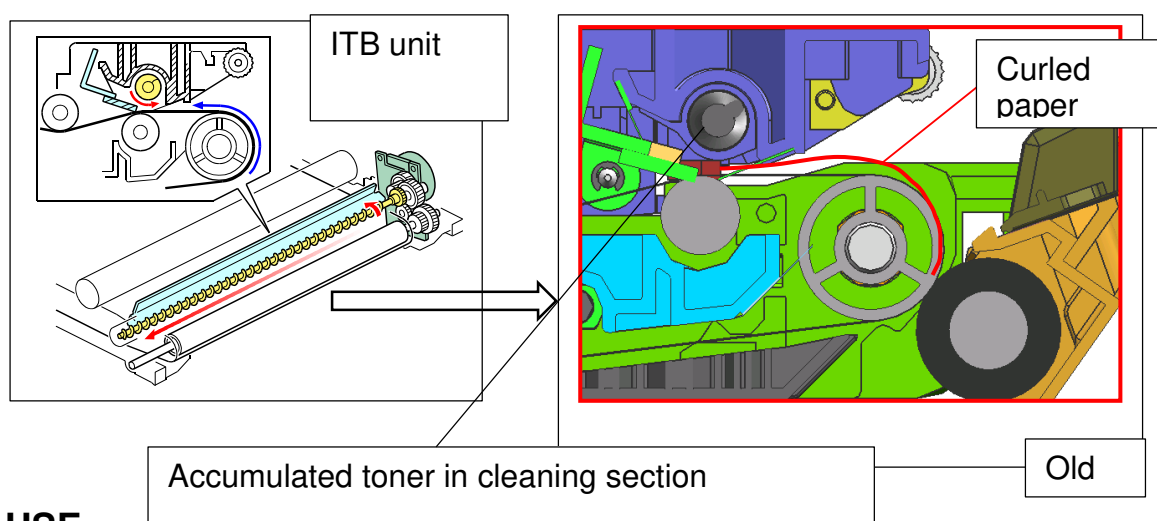
RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	Spare part only
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	Spare part only
Ricoh: Aficio SP C730DN	220/50	China	M109-21	Spare part only

Model: Ti-P1		Date: 30-Apr-14	No.: RM109038
Subject: Paper Blocker at ITB Unit		Prepared by: H.K.	
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 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

SYMPTOM

Toner in the cleaning section of the ITB unit may leak out when the user removes paper that had curled and then jammed in the unit.



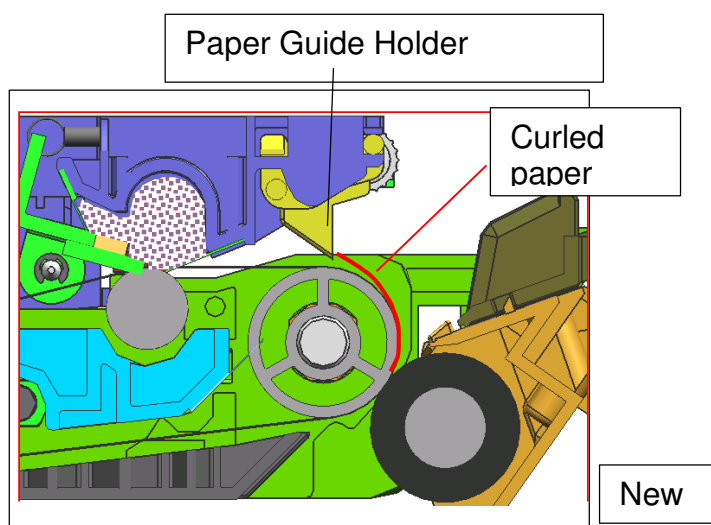
CAUSE

Part of the paper gets stuck inside the ITB unit.

SOLUTION

Production line

The shape the Paper Guide Holder was changed so as to block curled paper from entering the ITB unit.



Model: Ti-P1	Date: 30-Apr-14	No.: RM109038
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Old part number	New part number	Description	Q'ty	Int	Note
M8910600	M8910601	INTERMEDIATE TRANSFER SECTION:MAINTENANCE:ASS'Y	1 - 1	X/O	
M1096010	M1096011	CLEANING SUB-UNIT:INTERMEDIATE TRANSFER:ASS'Y	1 - 1	X/X	
	M1096186	HOLDER:GUIDE:PAPER:RAIL:2	0 - 6		
	B0042310	SPUR	0 - 6		

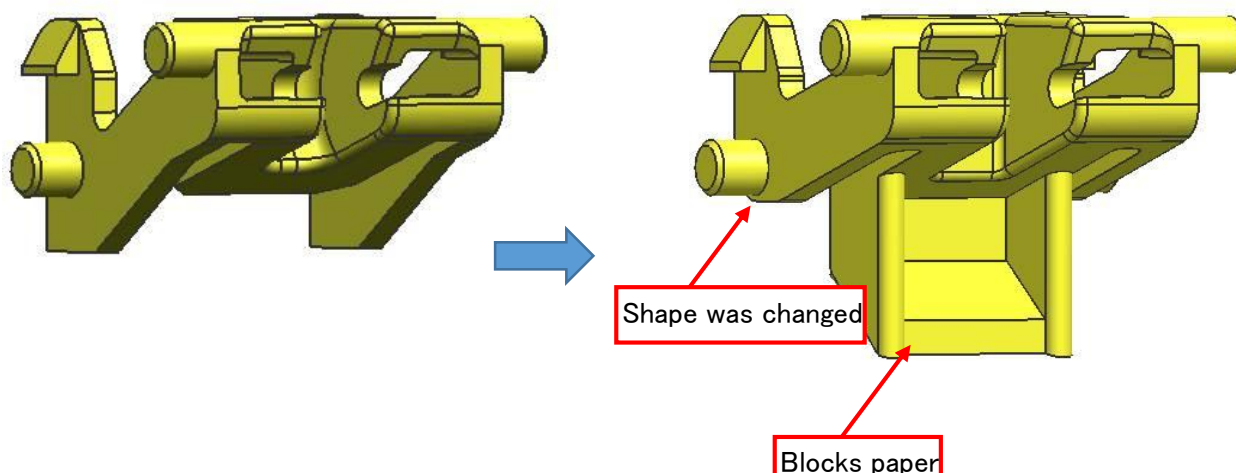
Changes:

- The shape of the paper guide holder was changed.
- The modified paper guide holder was newly registered as a Service part.
- The spur was registered as a Service part to facilitate servicing in the field.
- The paper guide holder and spur were deleted from the ITB cleaning sub-unit

Reason: See the above.

Old Paper Guide Holder

New Paper Guide Holder



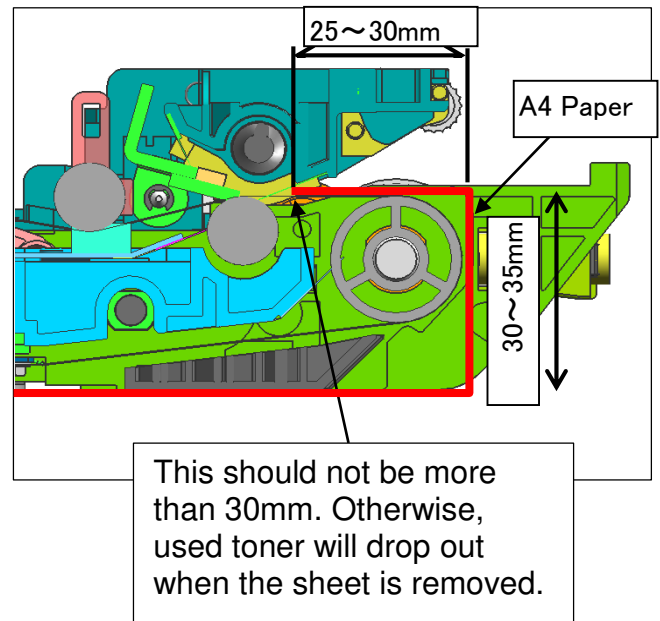
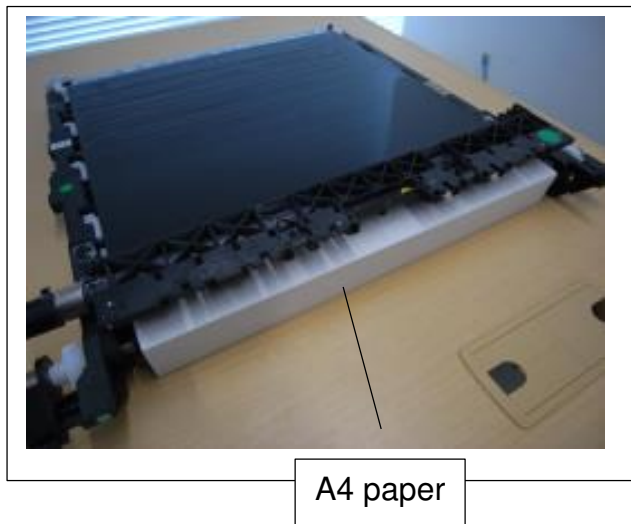
In the field

Replace the paper guide holder or ITB unit with the modified one.

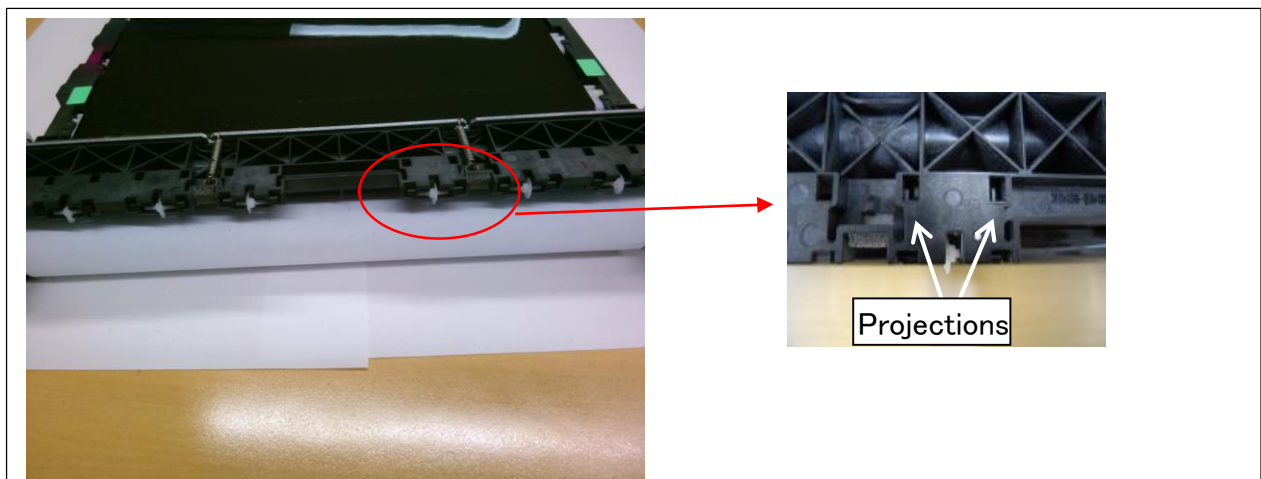
See procedures below.

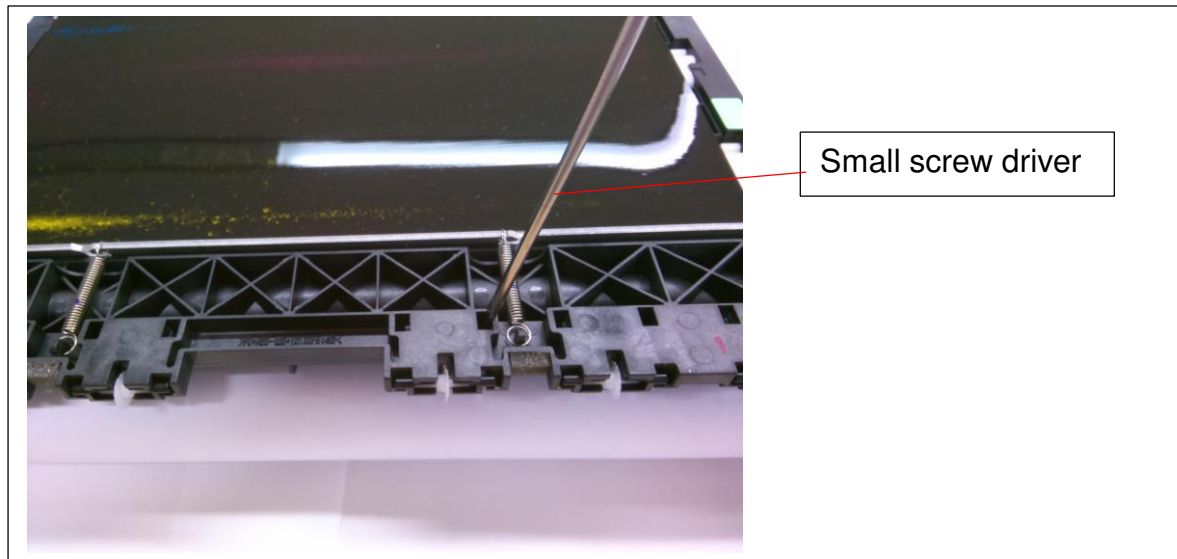
PROCEDURE: Replacing the Paper Guide Holder

1. Remove the ITB from the printer.
2. Put a sheet of A4 paper under the ITB unit to protect its surface, as shown.



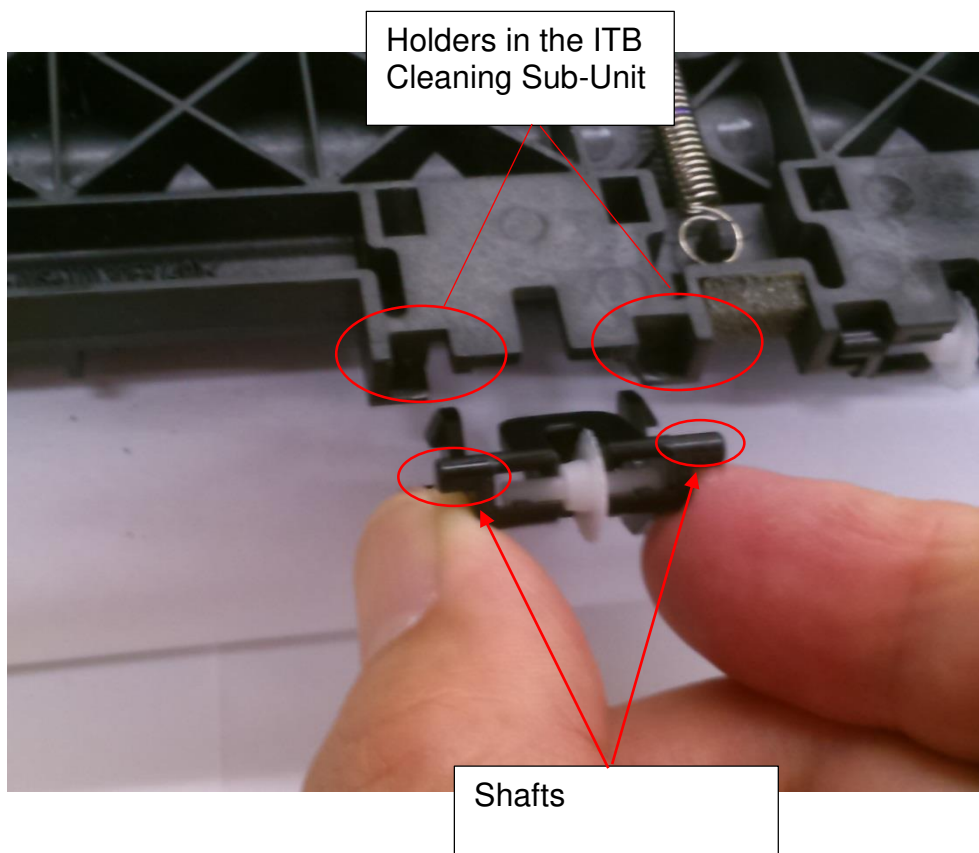
3. Push the two projections of the paper guide holder inward to disengage them using a small screw driver, as shown.





4. Disengage the shafts from the holders in the ITB Cleaning Sub-Unit using a small screw driver. Then, remove the Paper Guide Holder from the cleaning sub unit as shown.

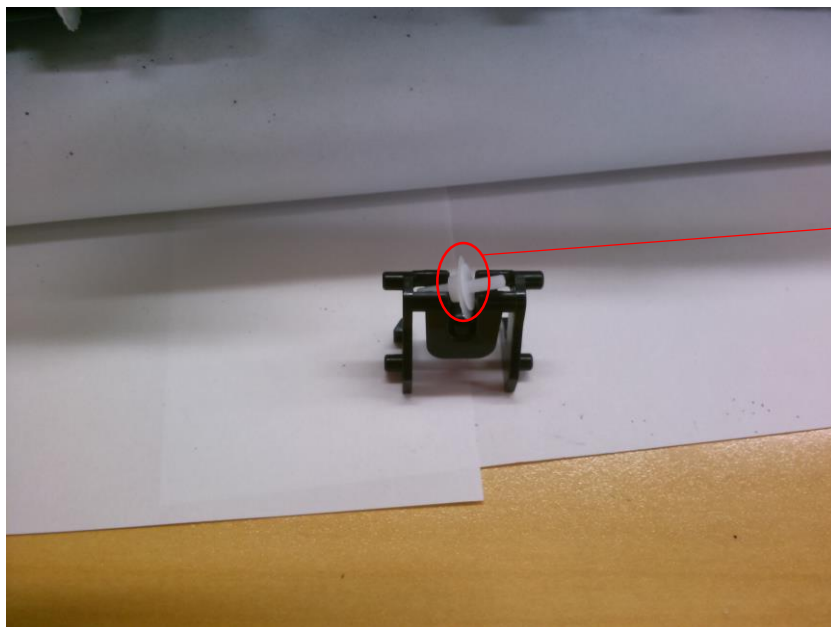
Note: Take care not to damage the ITB surface when removing and installing the Paper Guide Holder.



5. Remove the spur from the old Paper Guide Holder as shown and attach it into the new one.

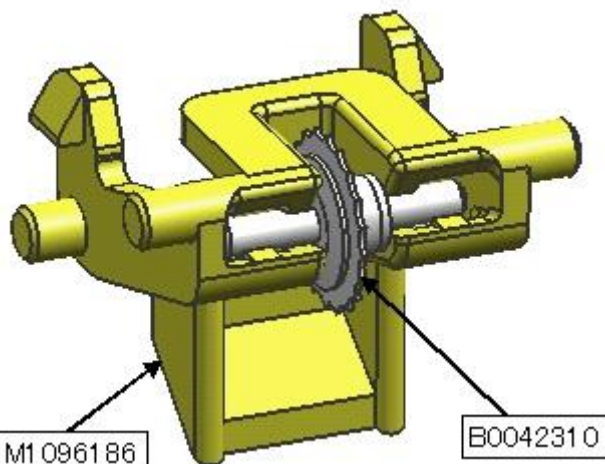
6. Return the new Paper Guide Holder together with the spur to the ITB Cleaning Sub-Unit.

Important: Take care not to touch the surface of the center of the Spur.



Spur

Old Paper Guide Holder

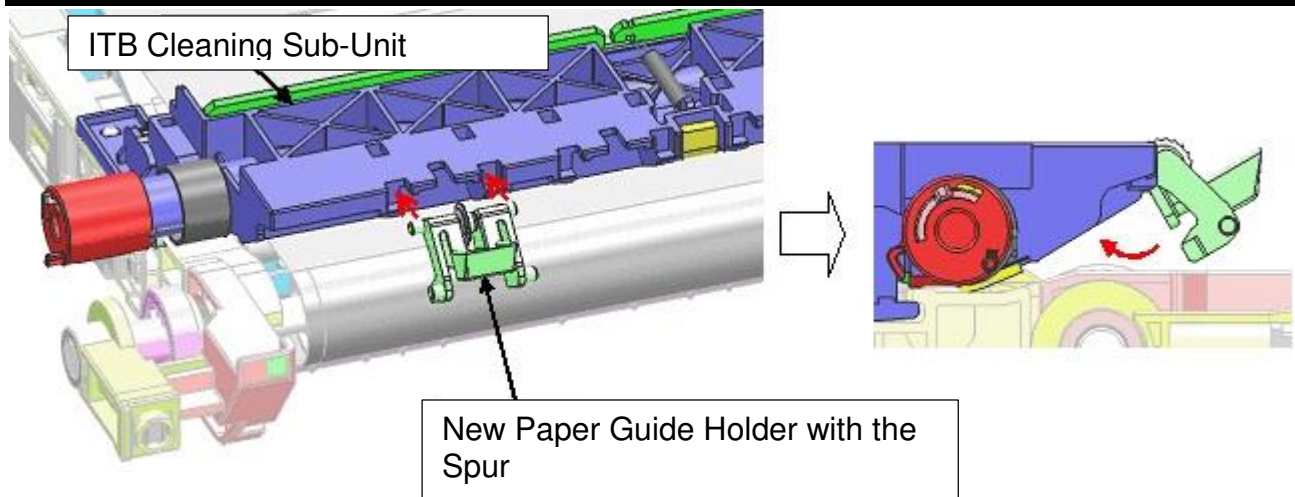


New Paper Guide Holder with the Spur

Model: Ti-P1

Date: 30-Apr-14

No.: RM109038



Replacing the ITB Cleaning Sub-Unit

Due to this modification, the replacement procedure was changed as shown.

The new procedure is the same as the old one, except for the following change:

Old: ITB Cleaning Sub-Unit (M1096010)

1. Remove the ITB Cleaning Sub-Unit, which includes the Paper Guide Holder with the Spur, from the ITB unit. For details, see the Service Manual (Image Transfer Belt Cleaning Unit, pg.55).

Note: The ITB Cleaning Sub-Unit which includes the Paper Guide Holder with the Spur can be removed from the ITB unit.

New: ITB Cleaning Sub-Unit (M1096011)

1. Remove the Paper Guide Holder with the Spur from the ITB Cleaning Sub-Unit. (See Steps 1-4 of the Paper Guide Holder replacement procedure in this RTB).
2. Remove the ITB Cleaning Sub-Unit without the Paper Guide Holder and Spur.

Important: Return the ITB Cleaning Sub-Unit without the Paper Guide Holder & Spur. Then, return the Paper Guide Holder with the Spur. Otherwise, the surface of the ITB may be damaged.

Model: Ti-P1

Date: 30-Apr-14

No.: RM109038

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R2xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R2xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R2xxxxx

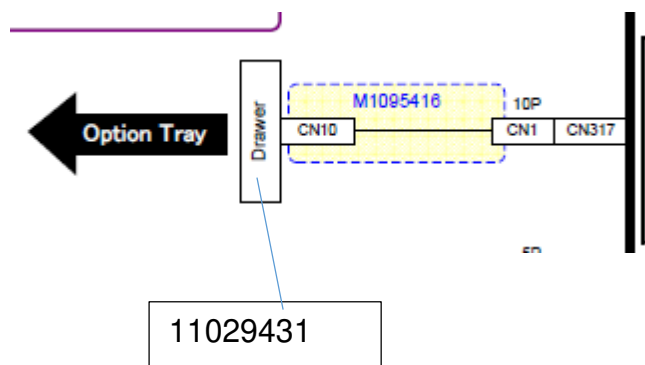
Model: Ti-P1		Date: 2-Jun-14	No.: RM109039
Subject: Harness Page in the Parts Catalogue		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
	11029431	CONNECTOR:1-1612256-2	0 - 1		

Change: The drawer connector to the optional tray was newly registered.

Reason: Parts Catalogue correction

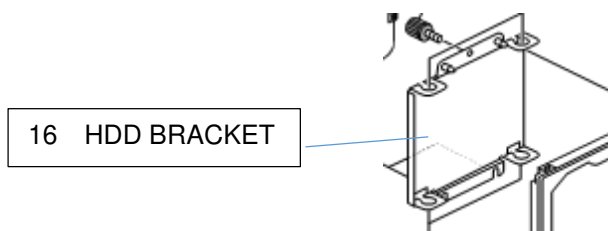
Important: Add the part number to the harness section until the 3D-PC can be updated.



Model: Controller Option for Ti-P1		Date: 2-Jun-14	No.: RM417001
Subject: HDD Bracket		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	M1095834	HDD BRACKET	0 - 1		3	*16	

*: New index



Change: The HDD bracket was newly added.

Reason: Requests were received from the field in Japan.

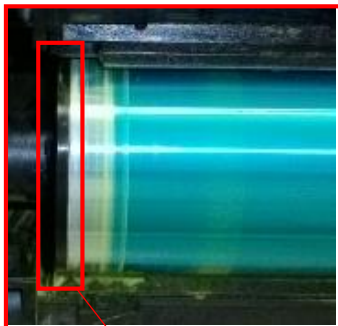
Model: Ti-P1		Date: 6-Jun-14	No.: RM109040
Subject: Noises from PCDU		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
M8920177	M8920192	PCU:EXCHANGEABLE:C_EXP: ASS'Y	1 - 1	X/O	
M8920178	M8920193	PCU:EXCHANGEABLE:M_EXP: ASS'Y	1 - 1	X/O	
M8920179	M8920194	PCU:EXCHANGEABLE:Y_EXP: ASS'Y	1 - 1	X/O	

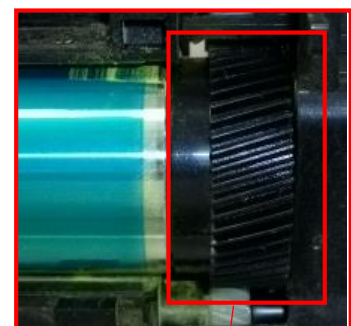
Change: The materials of the gear and flange for driving the photoconductor drum were changed.

Reason: To reduce the possibility of the noise which may be generated when driving the photoconductor drum.

Flange



Gear



Model: Ti-P1	Date: 6-Jun-14	No.: RM109040
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RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R5xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R5xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R5xxxxx

Model: Controller Option for Ti-P1		Date:	No.: RM417002
Subject: SD-CARD:IPDS		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
	M4175212	SD-CARD:IPDS:EXP:ASS'Y	0 - 1		3	*17	

*: New index

Change/Reason: The IPDS SD-Card was missing from the Parts Catalog.

IPDS Unit Type C730 (M417-10, -11, -12)



Reissued: 5-Dec-14

Model: Ti-P1	Date: 30-Jun-14	No.: RM109041a
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RTB Reissue

The items in bold italics have been changed or added.

Subject: Fixing Extention Tray, End fence, and Side Fences		Prepared by: H.K.	
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

NOTE: The SOLUTION in this RTB was developed on other models, but can be used to minimize feed jams/non-feed jams on this model as well.

SYMPTOM

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

CAUSE

The stoppers may break when the tray extension is pulled or pushed in with the wrong unlocking/locking position of the stoppers. As a result, the tray extension may extend out too far, causing the end fence to retract.

SOLUTION
Production line:

Six screw holes were added to the Paper Tray so that the extension tray can be fixed in place for 8 1/2 x 11/A4 SEF and longer sizes of 8 1/2 x 11/A4 SEF. Screws were not added to production machines.

In the field:

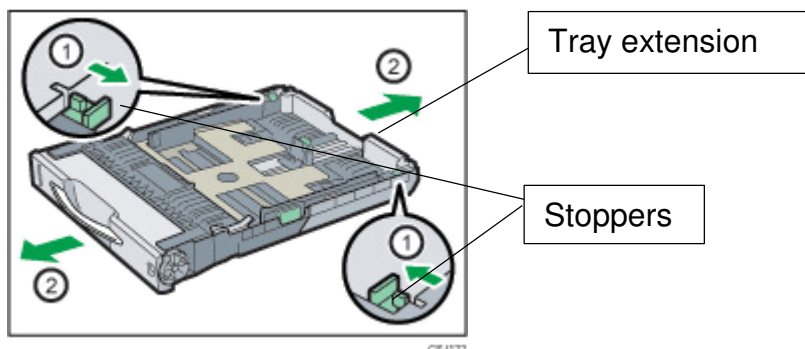
- If the user always uses the same paper size, fasten the extension tray in place with screws. **If the user does not always use the same paper size, this solution cannot be applied to the user's machine. Instruct the user on the correct operation of the tray extension and stoppers.**

Note: For this change, the part number of the Paper tray was changed as shown below.

Old part number	New part number	Description	Q'ty	Int	Note
M1092552	M1092555	PAPER FEED:PAPER TRAY:250TYPE:EXP:ASS'Y	1 - 1	X/O	<i>For US/EU/Asia</i>
<i>M1092553</i>	<i>M1092558</i>	<i>PAPER FEED:PAPER TRAY:250TYPE:CHN:ASS'Y</i>	<i>1 - 1</i>	<i>X/O</i>	<i>For China</i>

Reissued: 5-Dec-14

Model: Ti-P1	Date: 30-Jun-14	No.: RM109041a
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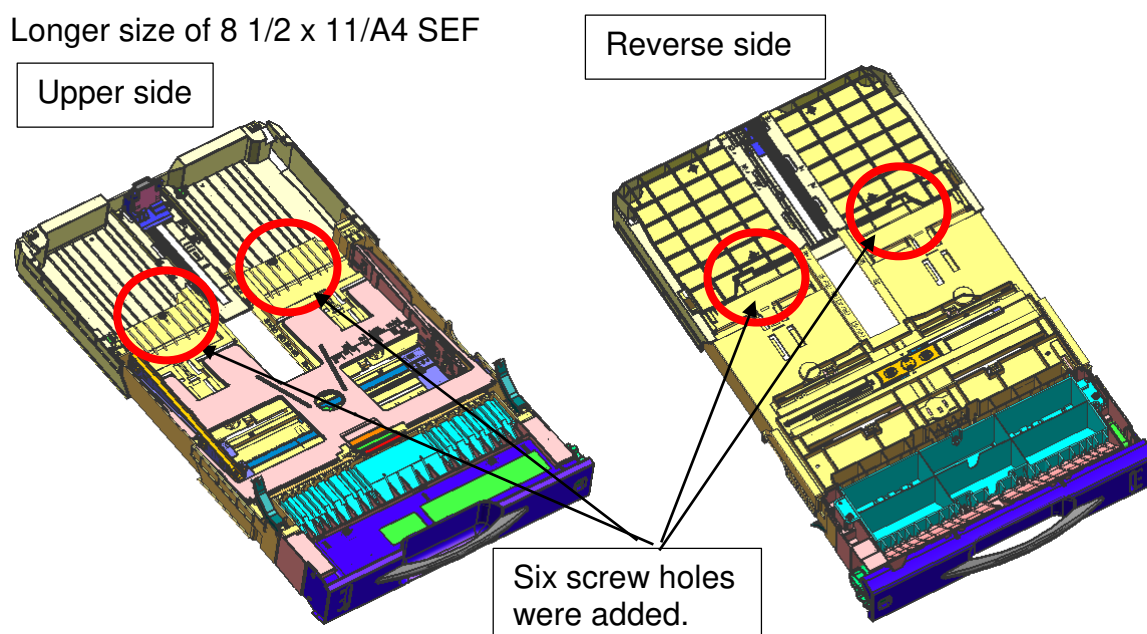
- Insert the following two screws from the upper face of the tray.
- Be careful not to over-tighten the screws.

Part number	Description
04583010N	HEXAGON HEAD TAPPING SCREW:3X10

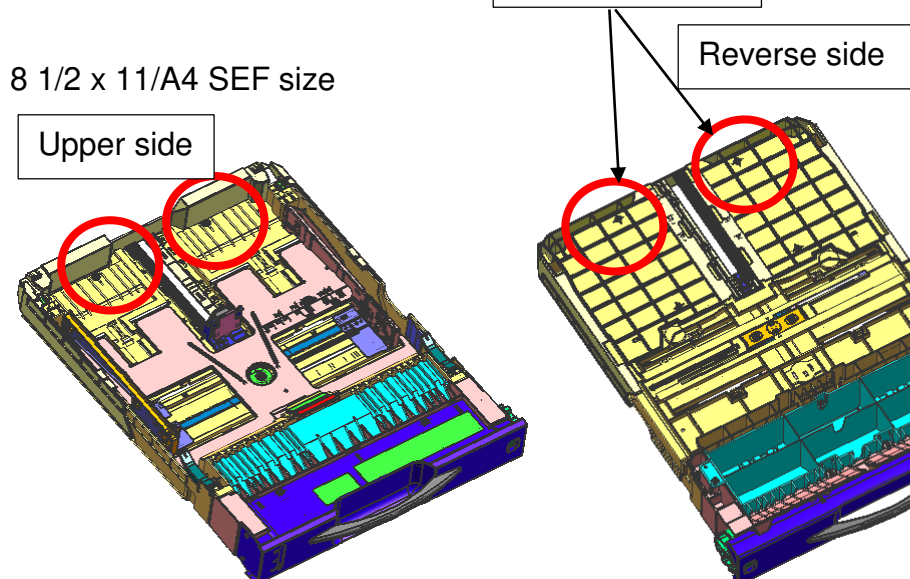
Reissued: 5-Dec-14

Model: Ti-P1	Date: 30-Jun-14	No.: RM109041a
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Longer size of 8 1/2 x 11/A4 SEF



8 1/2 x 11/A4 SEF size



End fence and side fences:

From first production, the end fence and side fences can be fixed in place for 8 1/2 x 11, 11 x 17, A4, or A3. If the user always uses only one of these sizes, fix the end fences and side fences in place (in one of the fixed positions provided).

Part number	Description
04583010N	HEXAGON HEAD TAPPING SCREW:3X10

Important: Be careful not to over-tighten the screws.

Reissued: 5-Dec-14

Model: Ti-P1

Date: 30-Jun-14

No.: RM109041a

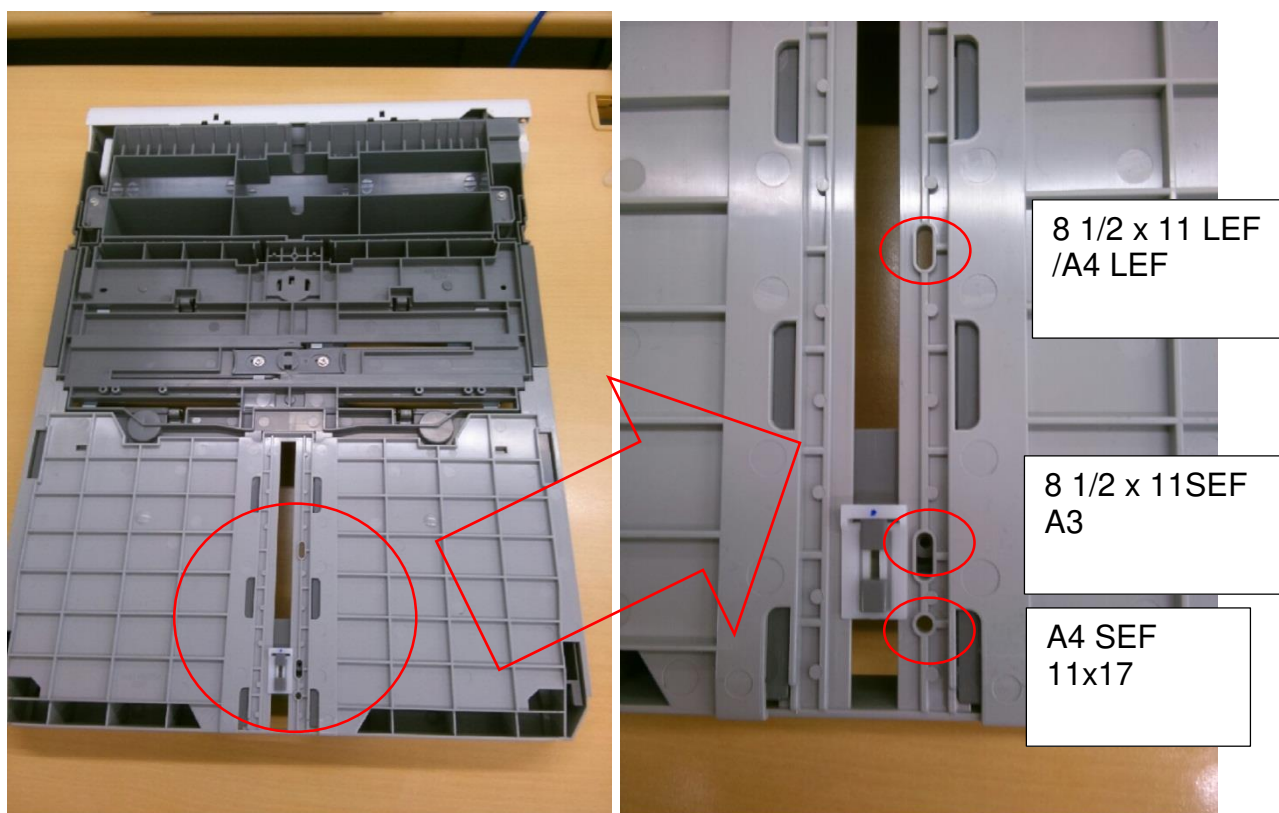
End fence:

- Insert the above screw from the reverse side of the tray.

Side fences:

- Insert the above two screws from the upper side of the tray.

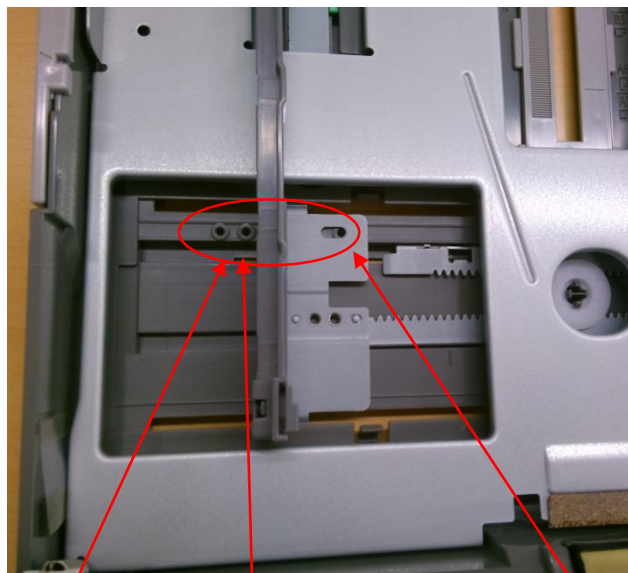
End fence:



Reissued: 5-Dec-14

Model: Ti-P1	Date: 30-Jun-14	No.: RM109041a
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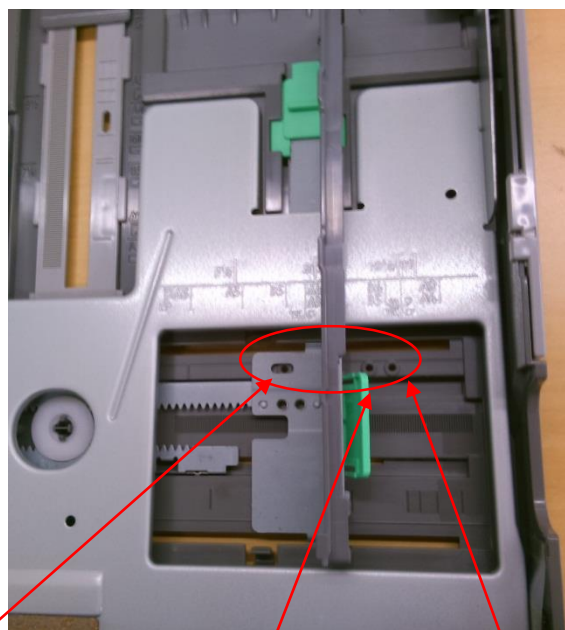
Side fences:



A4 LEF
A3

8 1/2 x 11 LEF
11 x 17

8 1/2 x 11 SEF
A4 SEF



A4 LEF
A3

8 1/2 x 11 LEF
11 x 17

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R7xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R7xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R7xxxxx

Model: Ti-P1		Date: 2-Jul-14	No.: RM109042
Subject: Paper Jam at Registration		Prepared by: H.K.	
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 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

SYMPTOM

A paper jam occurs at the registration roller section (the paper does not reach the fusing entrance sensor) if the paper is fed from the optional paper tray unit.

CAUSE

The Registration Guide Plate (M1093921) may be deformed if the Ground Plate (M1093931) touches the Registration Guide Plate together with the Guide Plate Ground Plate (M1093934).

SOLUTION

The shape of the Grounding Plate was changed. In addition, a brush was added in place of the Grounding Plate.

Old part number	New part number	Description	Q'ty	Int	Note
M1093931	M1093944	GROUND PLATE:REGISTRATION ROLLER:HOUSING:TRANSPORT	1 - 1	X/X	X/O
	M1093941	DISCHARGE BRUSH:TRANSPORT:PEEN	0 - 1		

IMPORTANT: If you need to replace the old Ground Plate in the field, make sure to install the new Ground Plate and Discharge Brush **together as a set**.

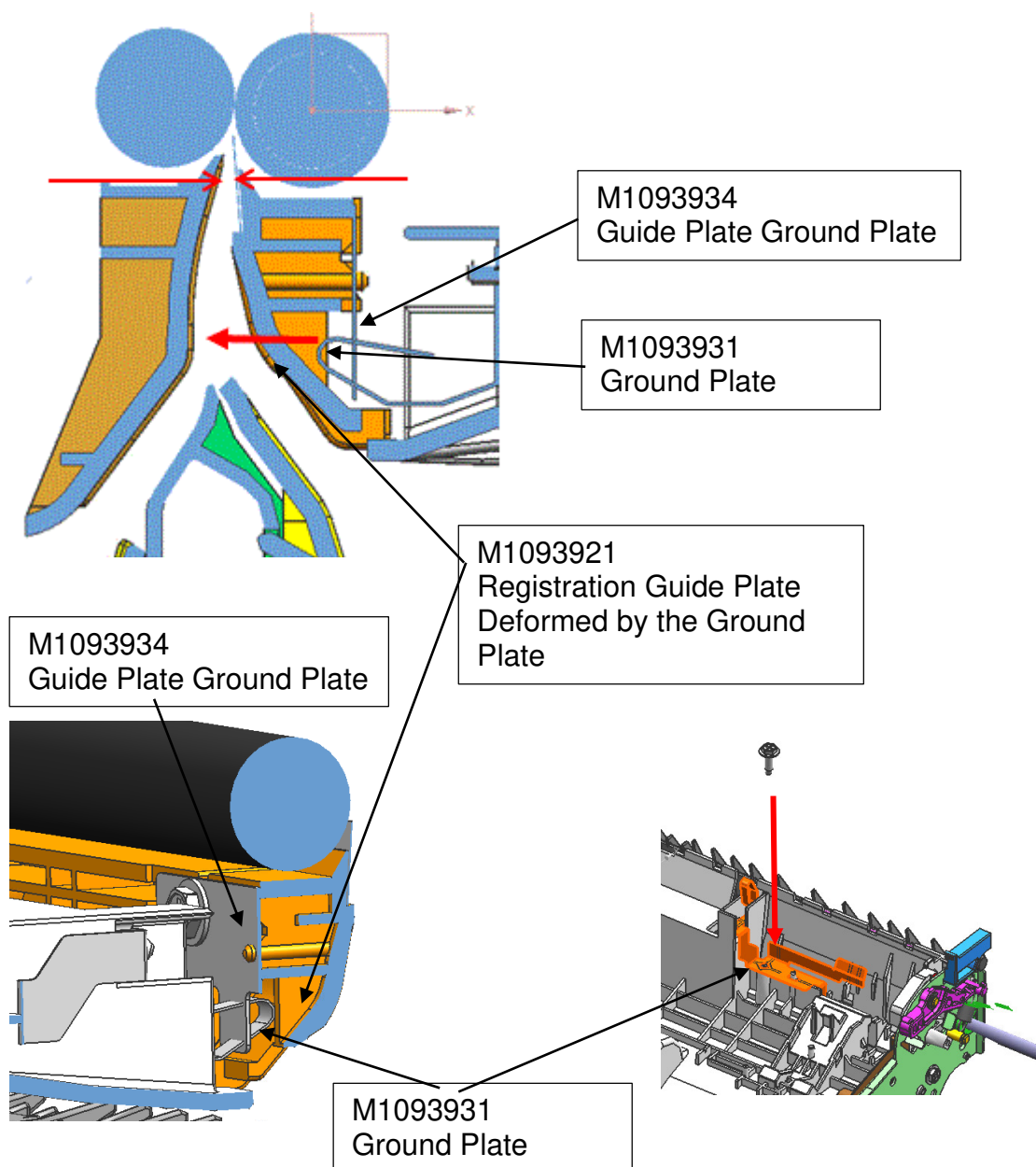
Model: Ti-P1

Date: 2-Jul-14

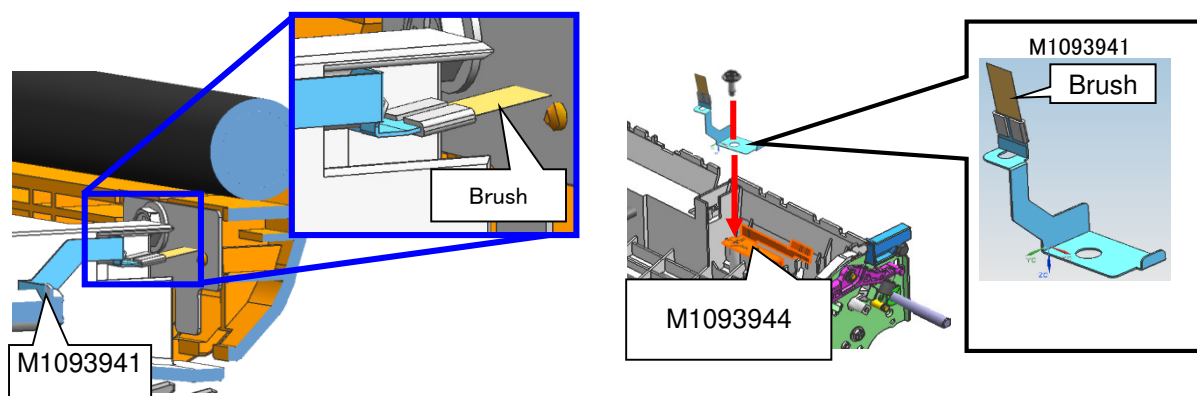
No.: RM109042

Registration Section

Old



New

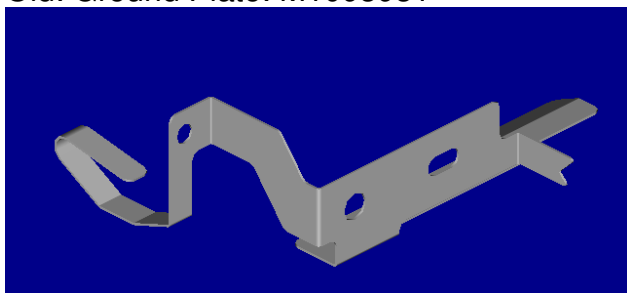


Model: Ti-P1

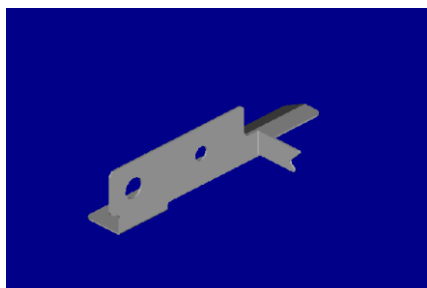
Date: 2-Jul-14

No.: RM109042

Old: Ground Plate: M1093931



New Ground Plate: M1093944


RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R7xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R7xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R7xxxxx

Model: Ti-P1		Date: 25-Aug-14	No.: RM109043
Subject: Image Transfer Belt Unit		Prepared by: H.K.	
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 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

Old part number	New part number	Description	Q'ty	Int	Note
M1096164	M1116164	PLAIN SHAFT BEARING:ROLLER:FLAT BELT-TRANSFER:FACE FRONT:R2	1 - 1	X/X	*2
M1096165	M1116165	PLAIN SHAFT BEARING:ROLLER:FLAT BELT-TRANSFER:FACE FRONT:L2	1 - 1	X/X	*2
M1096011	M1096021	ITB CLEANING SUB-UNIT	1 - 1	X/X	*1
M8910601	M8910602	INTERMEDIATE TRANSFER BELT UNIT ASS'Y	1 - 1	X/O	

Change:

- The material of the cleaning blade was changed.
- The strength of the spring that applies pressure to the cleaning blade was increased.
- The shapes of Plain Shaft Bearings were changed.
- A scraper for cleaning the roller that faces the opposite side of the cleaning blade in the ITB was added.
- A sponge for cleaning the reverse side of the ITB was added.

Reason: To increase the cleaning ability of the ITB unit.

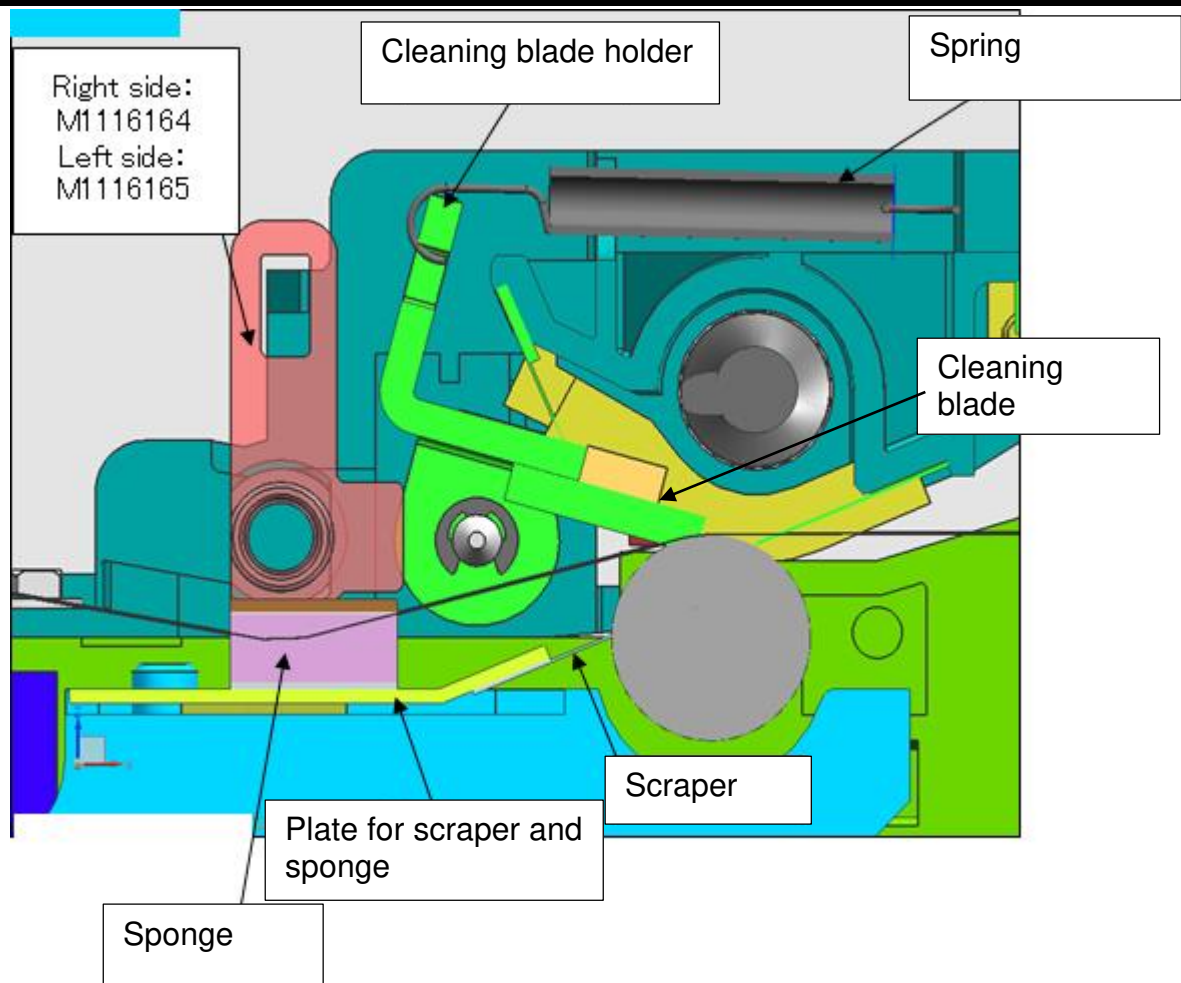
Important:

1. There is no interchangeability (**X/X**) between the old and new ITB Cleaning Sub-unit. The old part is no longer available, as a mold is not used to produce the new part. When the old ITB Cleaning Sub-unit has to be replaced, replace it with the new ITB unit assembly.
2. The old Plain Shaft Bearings are still available as a service part for older machines.

Model: Ti-P1

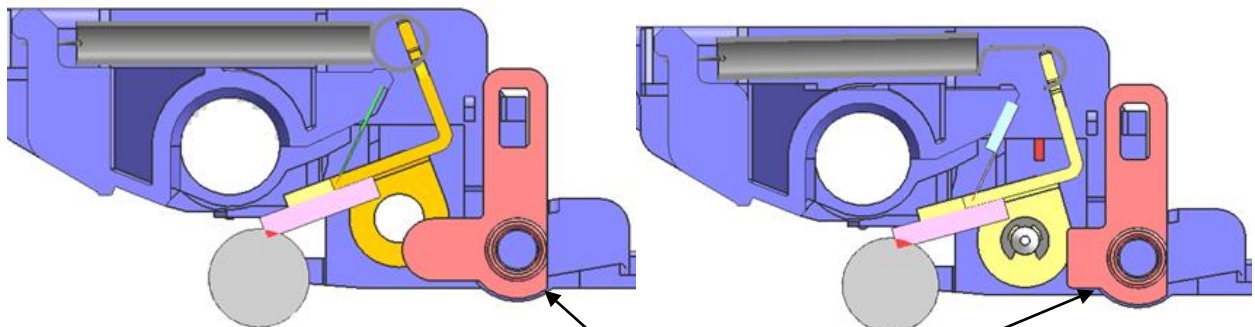
Date: 25-Aug-14

No.: RM109043



Old

New



Plain Shaft Bearings

Right: M1096164 → M1116164

Left: M1096165 → M1116165

Model: Ti-P1

Date: 25-Aug-14

No.: RM109043

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R5xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R5xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R5xxxxx

Reissued: 18-Dec-14

Model:Ti-P1	Date: 28-Aug-14	No.: RM109044a
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RTB Reissue

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

Subject: Dupex Paper Jam		Prepared by: H.K.	
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

SYMPTOM

A duplex paper jam occurs.

CAUSE

Curled paper gets stuck inside the duplex paper path.

SOLUTION

Production line

Guides for curled paper were added inside the duplex paper path.

Service parts

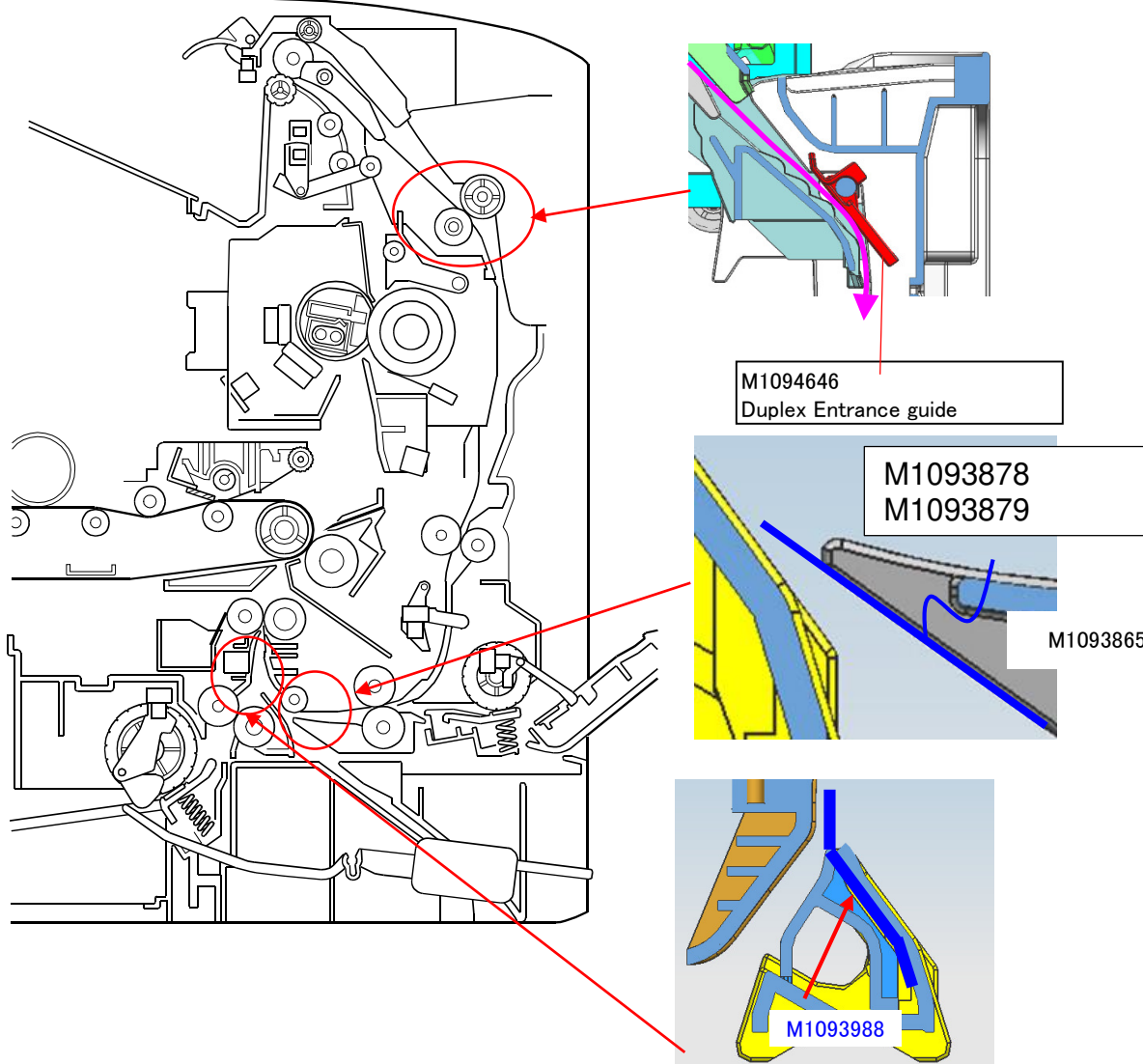
Changes:

- Four entrance duplex guides were added to the entrance duplex transport roller.
Note: To facilitate this change, four grooves were cut into the shaft of the roller.
- Two sheets (right/left) were added to the lower transport guide plate.
- Two sheets were added to the connecting transport roller guide plate.

Reason: To guide curled paper so that it does not jam.

Reissued: 18-Dec-14

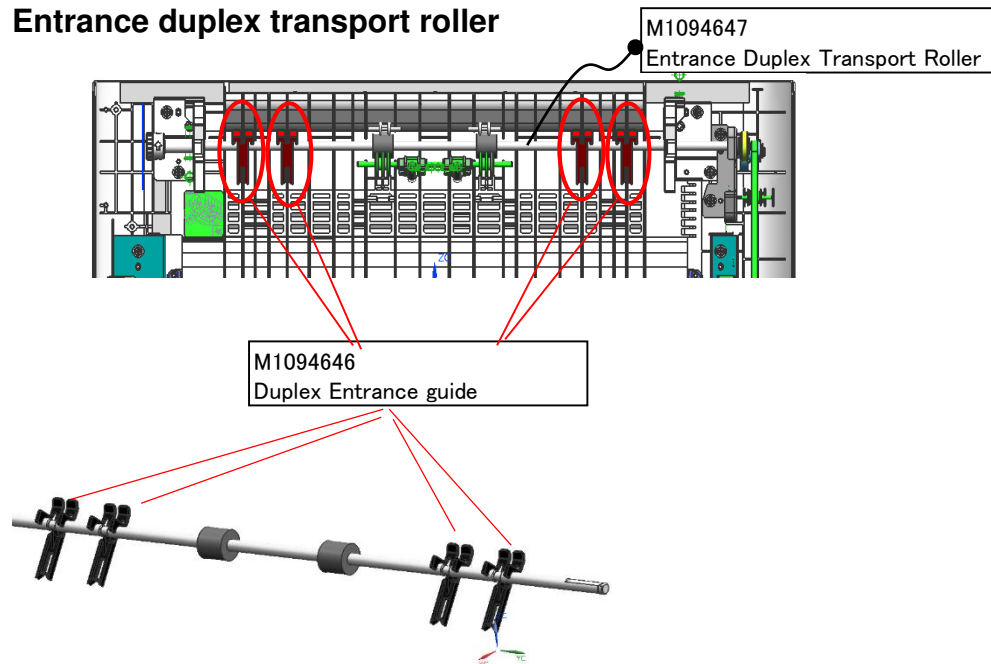
Model:Ti-P1		Date: 28-Aug-14		No.: RM109044a	
Old part number	New part number	Description	Q'ty	Int	Note
M1094604	M1094647	TRANSPORT ROLLER:DUPLEX:ENTRANCE	1 - 1	X/X	X/O as a set
	M1094646	GUIDE:DUPLEX:ENTRANCE	0 - 4		
M1093865	M1093869	GUIDE PLATE:TRANSPORT:LOWER:ADHESION	1 - 1	X/O	
	M1093878	SHEET:GUIDE PLATE:TRANSPORT:LOWER:RIGHT	0 - 1		
	M1093879	SHEET:GUIDE PLATE:TRANSPORT:LOWER:LEFT	0 - 1		
M1093981	M1093987	GUIDE PLATE:TRANSPORT ROLLER:CONNECTING:ADHESION	1 - 1	X/O	
	M1093988	SHEET:GUIDE PLATE:TRANSPORT ROLLER:CONNECTING	0 - 2		



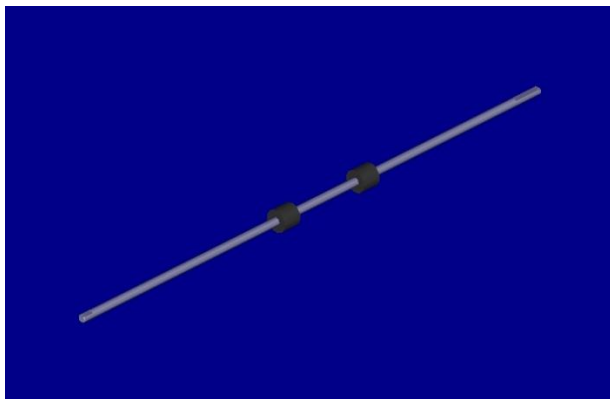
Reissued: 18-Dec-14

Model:Ti-P1	Date: 28-Aug-14	No.: RM109044a
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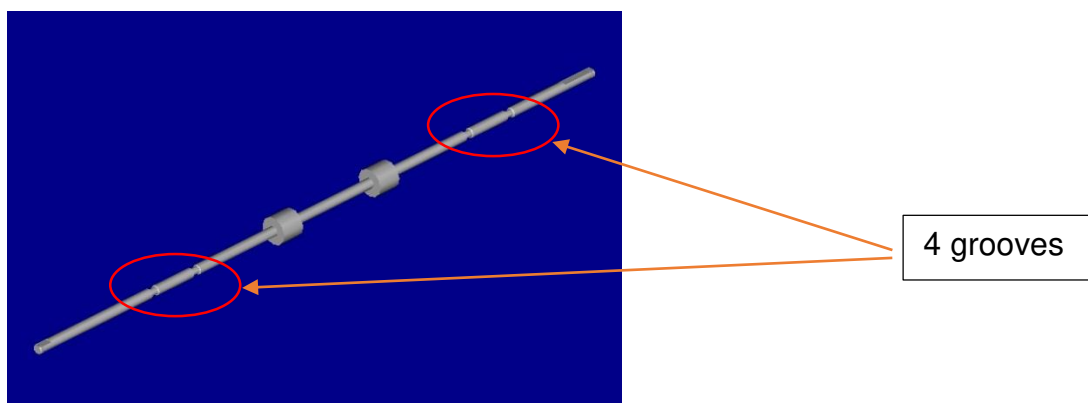
Entrance duplex transport roller



OLD entrance duplex transport roller



NEW entrance duplex transport roller



Reissued: 18-Dec-14

Model:Ti-P1	Date: 28-Aug-14	No.: RM109044a
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Old part number	New part number	Description	Q'ty	Int	Note
	M1099004	GUIDE:ENTRANCE:DUPLEX - 4PCS/SET	0 - 1		

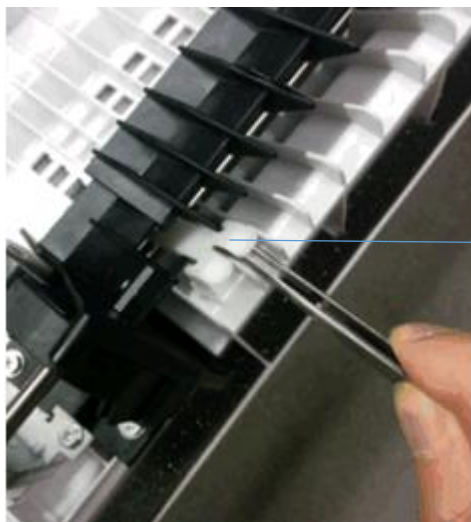
Change: The part shown above was added as a service part.

Reason: To enable installation of the duplex entrance guide on older machines in the field.

Note: It is not necessary to replace the old entrance duplex transport roller when installing these guides.

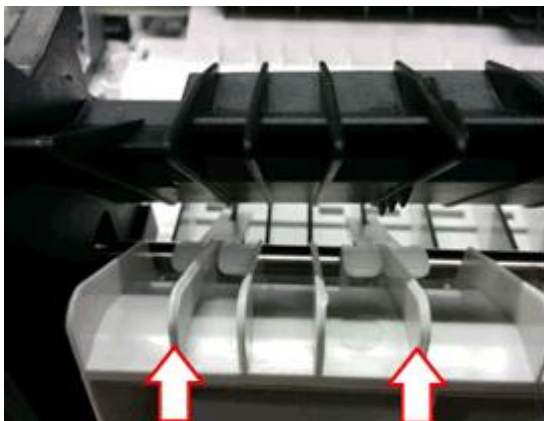
INSTALLATION

1. Open the front cover.
2. Attach the four (4) duplex entrance guides [A] using tweezers from both side edges at the second and fifth ribs, as shown.



A

Left side



Right side

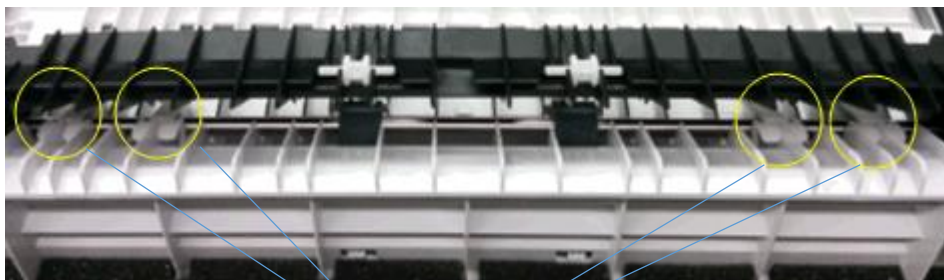


Reissued: 18-Dec-14

Model:Ti-P1

Date: 28-Aug-14

No.: RM109044a

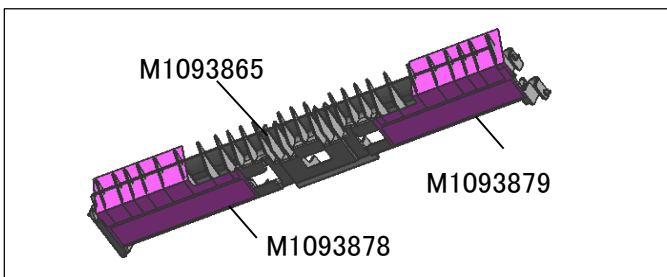
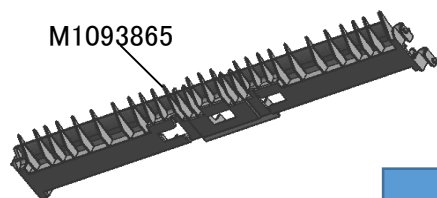
**A**

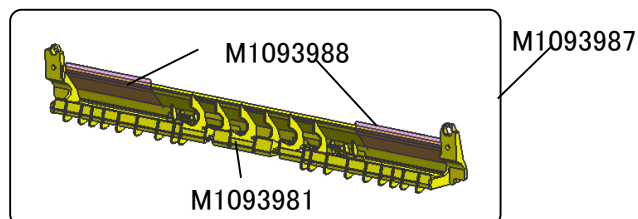
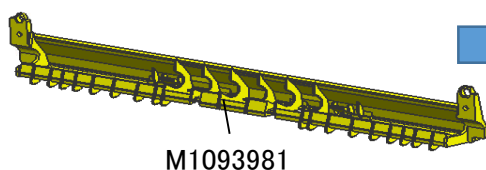
Reissued: 18-Dec-14

Model:Ti-P1

Date: 28-Aug-14

No.: RM109044a

Lower transport guide plate

M1093869
GUIDE PLATE:TRANSPORT:LOWER:ADHESION

Connecting transport roller guide plate

M1093987
GUIDE PLATE:TRANSPORT ROLLER:CONNECTING:ADHESION

CUT-IN SERIAL NUMBERS
RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414R2xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414R2xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414R2xxxxx

Reissued: 19-Feb-15

Model: Ti-P1	Date: 15-Oct-14	No.: RM109045a
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RTB Reissue

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

Subject: Multi-paper Feed from By-pass Tray		Prepared by: H.K.	
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 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

Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
M1092834	M1092881	COVER:MANUAL FEED TABLE	1 - 1	X/X			X/O as a set
M1092850	M1092883	BASE:MANUAL FEED TABLE:ADHESION	1 - 1	X/X			
M1092865	M1092876	COMPRESSION SPRING:SEPARATION:MANU AL FEED	1 - 1	X/X			X/O as a set
M1092868	M1092880	HOLDER:FRICTION PAD:MANUAL FEED:ADHESION	1 - 1	X/X			
<i>M1092801</i>	<i>M1092803</i>	<i>MANUAL FEED TABLE:ASS'Y</i>	<i>1 - 1</i>	<i>X/O</i>			

Change:

- Two ribs were added to the Manual Feed Table Cover.
- Two cutouts were added to the Manual Feed Table Base at the positions corresponding to the two ribs.
- The Manual Feed Separation Compression Spring was strengthened.
- The material of the noise prevention ribs on the Manual Feed Friction Pad Holder was changed from a resin to a metallic one.
- In accordance with this material change, a metal plate was added to the Manual Feed Friction Pad Holder using thermal caulking.

Reason: To further improve paper feed performance, incl. minimizing multi-feeds.

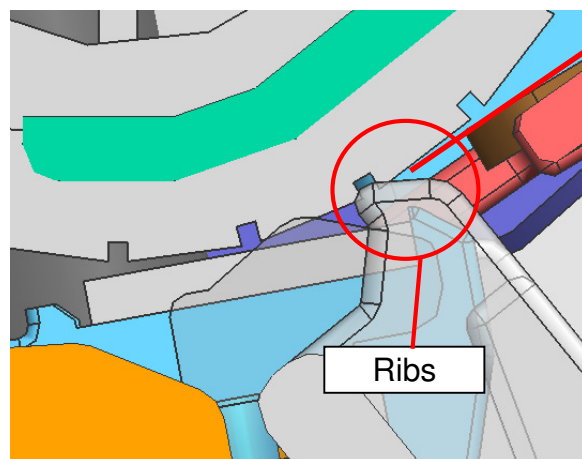
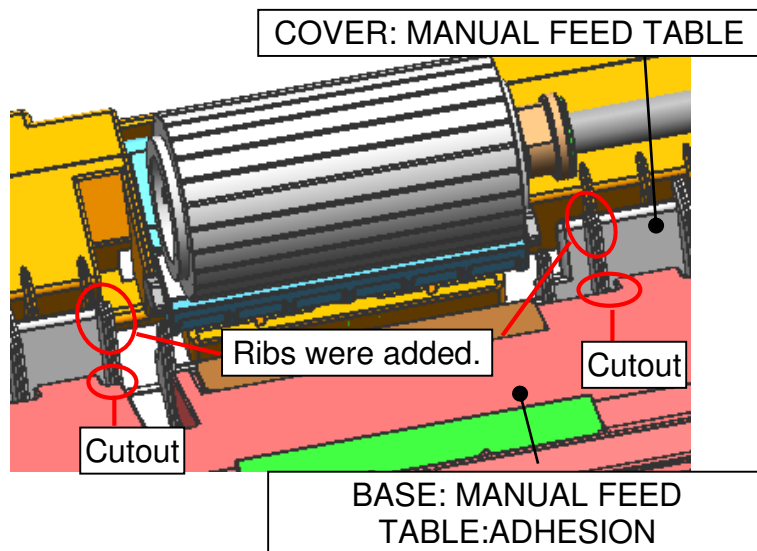
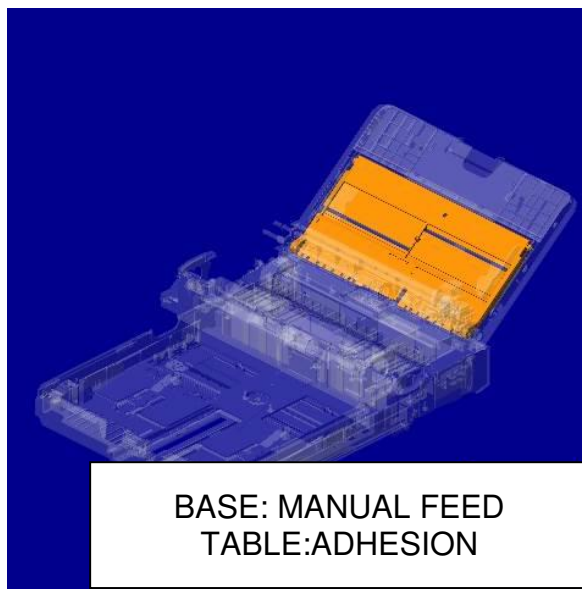
- Manual Feed Table Cover: To increase separation ability.
- Manual Feed Separation Compression Spring: To increase separation ability.
- Manual Feed Friction Pad Holder: To improve the durability of noise prevention ribs.

Note: Due to the increased separation pressure, the noise prevention ribs may be worn as more prints are made.

Reissued: 19-Feb-15

Model: Ti-P1	Date: 15-Oct-14	No.: RM109045a
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Important: There is no interchangeability (X/X) between the old and new parts. When the old part needs to be replaced, make sure to replace it with the new parts listed in the table **together as a set**.

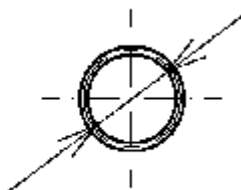
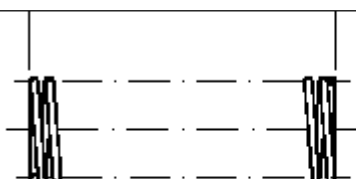


Reissued: 19-Feb-15

Model: Ti-P1	Date: 15-Oct-14	No.: RM109045a
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Length: 30.8 mm to 21.9 mm



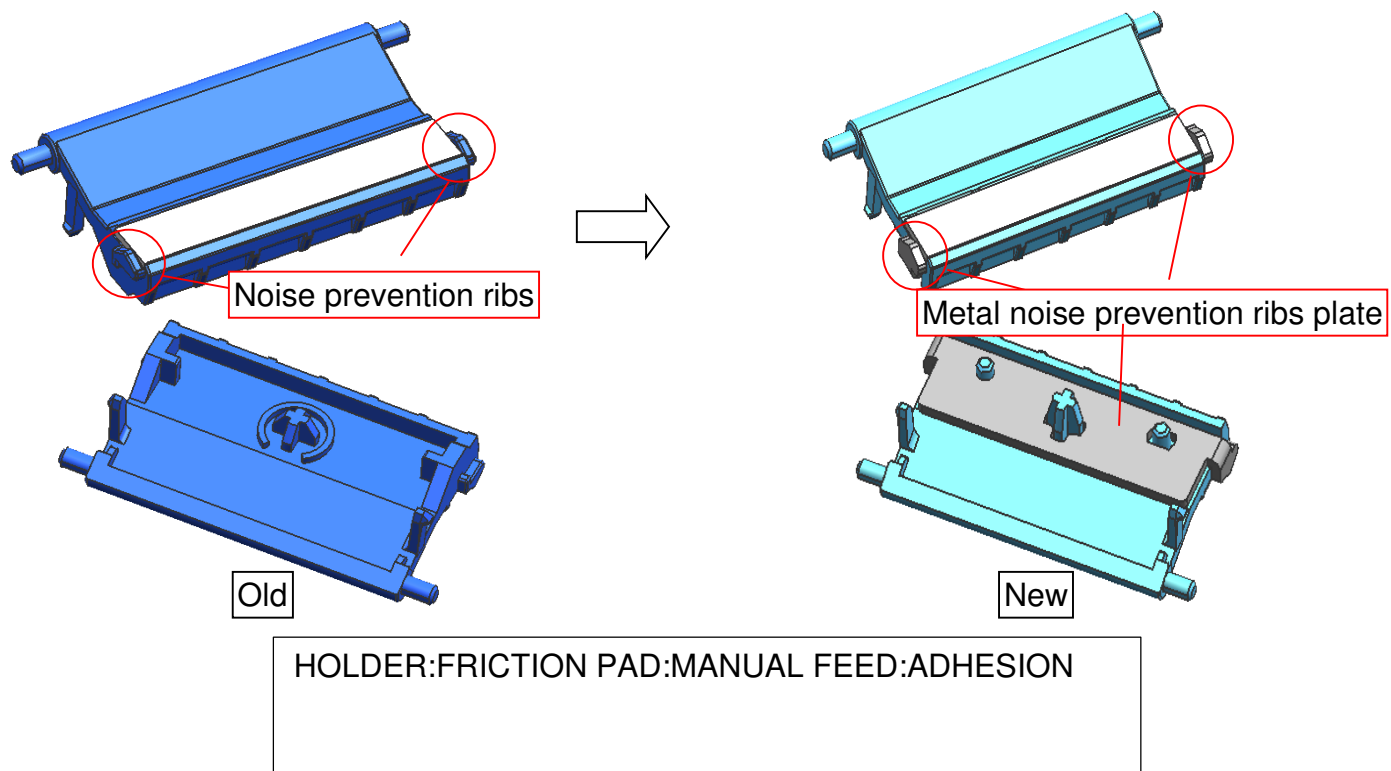
Outer diameter: 9.1 ± 0.3 mm



Inner diameter: 6.4 ± 0.2 mm

Reissued: 19-Feb-15

Model: Ti-P1	Date: 15-Oct-14	No.: RM109045a
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RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414RAxxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414RAxxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414RAxxxxx

Model: Ti-P1		Date: 15-Oct-14	No.: RM109046
Subject: Thermopile with Holder		Prepared by: H.K.	
From: 3rd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input checked="" 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	Note
AW100138	→ M1095822	THERMOPILE:FUSING:ASS'Y	1 - 1	O/O	
M1095823		HOLDER:THERMOPILE (not listed in the Parts Catalog)	1 - 0		

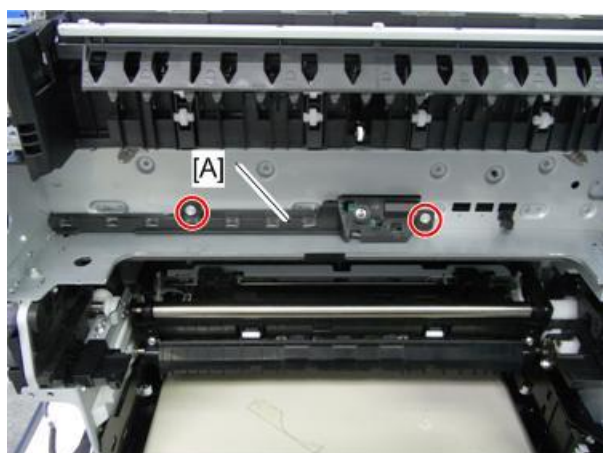
Change: The Independent Thermopile and Independent Thermopile Holder were deleted as individual Service parts. Instead, these two parts are provided as a new assembly (see table).

Reason: The hooks of the thermopile Holder can be damaged in the field when the Thermopile is removed from the Holder.

Replacement Procedure for the Thermopile

Note: This procedure (FSM, pg. 86) was revised as follows.

1. Fusing unit (→ pg. 76).
2. Thermopile bracket (Holder) [A] (screw x2).



m1099065.jpg

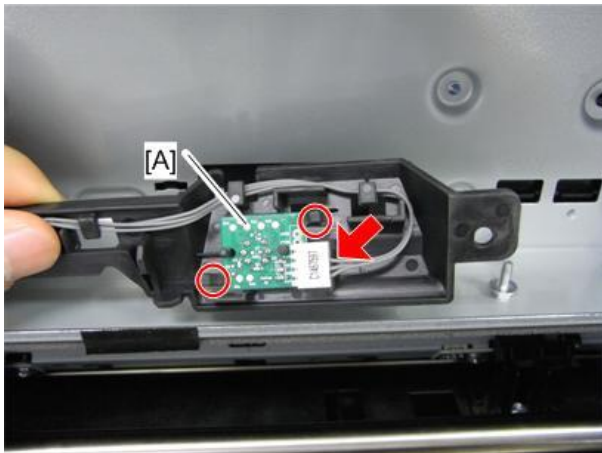
3. Thermopile with its holder (Connector x1).

Model: Ti-P1

Date: 15-Oct-14

No.: RM109046

Important: Do not remove the Thermopile [A] from the bracket (Holder). Otherwise, the hooks of the bracket (holder) will be damaged.



m1099066.jpg

Model: Ti-P1		Date: 16-Oct-14	No.: RM109047
Subject: Sponge removed: Image Transfer Belt Unit		Prepared by: H.K.	
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 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

Old part number	New part number	Description	Q'ty	Int	Note
M8910602	M8910603	INTERMEDIATE TRANSFER SECTION:MAINTENANCE ASS'Y	1 - 1	X/O	(*)1
M8910603	M8910604	INTERMEDIATE TRANSFER SECTION:MAINTENANCE:ASS'Y	1 - 1	X/O	(*)2

Change:

1. The material of the sponge was changed.

Note: This sponge was added in RTB #RM109043 for cleaning the reverse side of the ITB.

2. Following this, the sponge was deleted.

Reason: To prevent noise generated by the sponge.

Note:

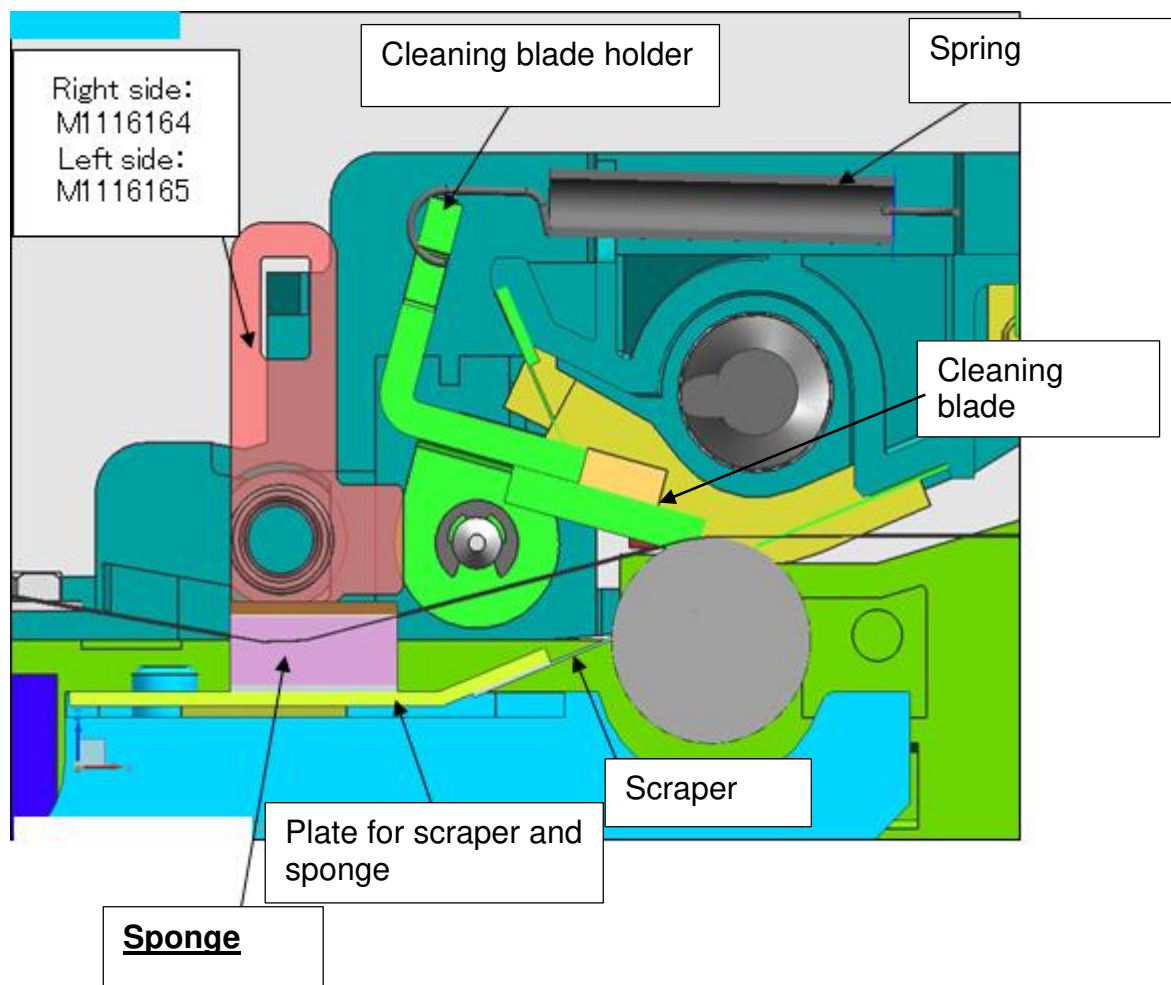
1. The first modification was not applied to the production line.
2. The sponge is not needed to properly clean the ITB unit, since this function is performed by the scraper for the cleaning the roller. This scraper faces the opposite side of the cleaning blade, and was added in RTB #RM109043 (**See next page** for excerpt from this RTB).

Model: Ti-P1

Date: 16-Oct-14

No.: RM109047

Excerpt from RTB #RM109043:



RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T414RAxxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T414RAxxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T414RAxxxxx

Model: Ti-P1		Date: 28-Apr-15	No.: RM109048
Subject: Fusing Coupling Gear & Pulley		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

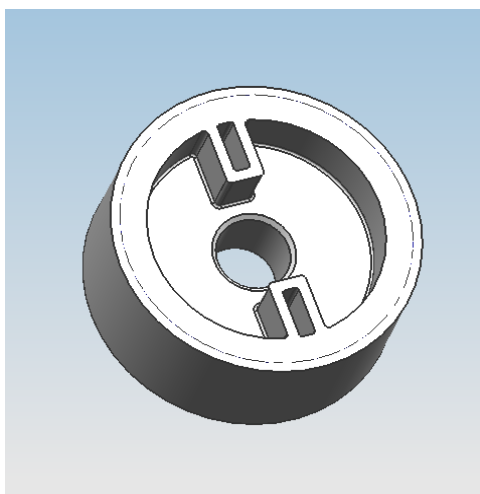
Old part number	New part number	Description	Q'ty	Int	Note
GB013131	GB013093	GEAR:FUSING:COUPLING - 30Z	1 - 1	X/X	X/O as a set
M1091198	M1091175	PULLEY:FUSING:COUPLING - 30Z	1 - 1	X/X	

Change: The shapes of the Fusing Coupling Gear and Pulley were changed.

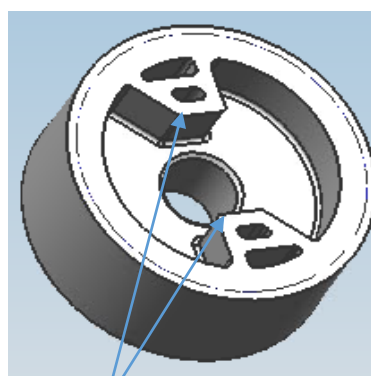
Reason: To increase the durability of these parts.

Important:

There is no interchangeability (**X/X**) between the old and new parts. When the old part needs to be replaced, make sure to replace it with the new parts listed in the table **together as a set**.



Old Fusing coupling Gear

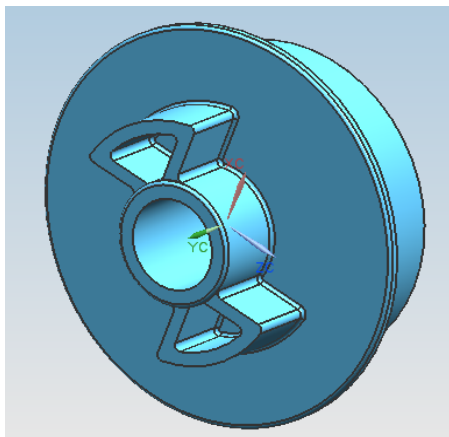


New Fusing Coupling Gear
The shape was changed.

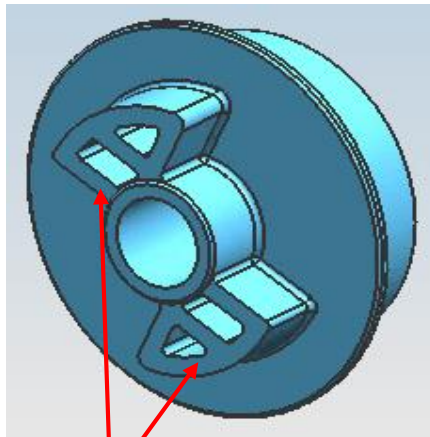
Model: Ti-P1

Date: 28-Apr-15

No.: RM109048



Old Fusing coupling
Pulley



New Fusing Coupling
Pulley
The shape was changed.

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T415R4xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T415R4xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T415R4xxxxx

Model: Ti-P1		Date: 22-May-15	No.: RM109049
Subject: Compression Springs & Terminal Holders		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	Note
M1095774	M1095894	HOLDER:TERMINAL:POWER PACK:TRANSFER	2 - 2	X/X	X/O as a set
M1095865	M1095895	COMPRESSION SPRING:TRANSFER:HVP:2	4 - 4	X/X	

Change: The diameters of the Compression Springs and Terminal Holders were increased.

Reason: To facilitate easier assembly of these parts on the production line and in the field.

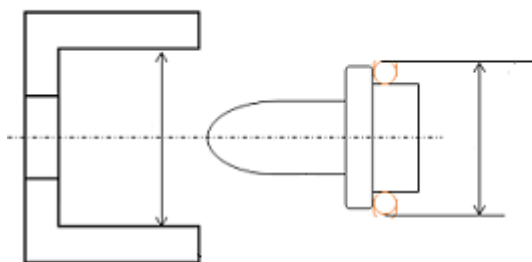
Important: There is no interchangeability (**X/X**) between the old and new parts. When the old part needs to be replaced, make sure to replace it with the new parts listed in the table **together as a set**.

Model: Ti-P1

Date: 22-May-15

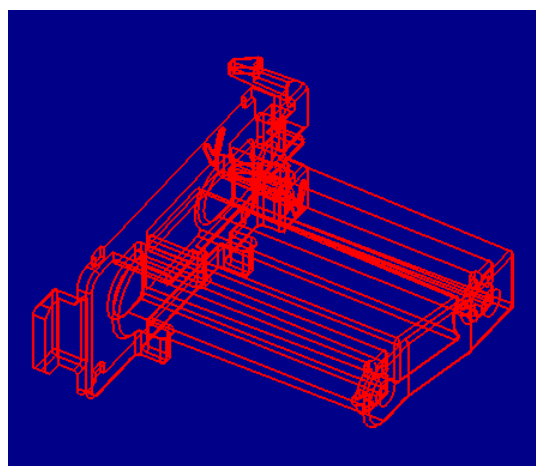
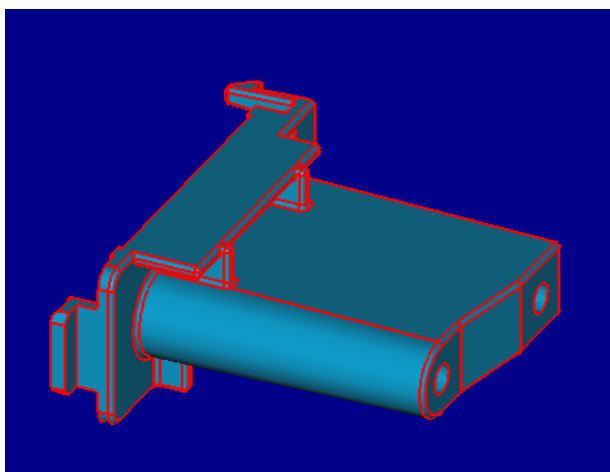
No.: RM109049

Terminal Holder:
Diameter:
 $6 +0.1/-0.1$ to
 $6.7+0.1/-0.1$



Compression
Spring:
Diameter:
 $5.8+0.1/0$ to
 $6.1+0.4/0$

Terminal Holder



RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T415R5xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T415R5xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T415R5xxxxx

Model: Ti-P1		Date: 22-May-15	No.: RM109050
Subject: Fusing Fan Duct & Seal		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	Note
M1095807	M1095891	DUCT:FAN:FUSING	1 - 1	X/O	
	M1095888	SEAL - 15X15X3MM	0 - 2		

Change:

- 1) The shape of the Fusing Fan Duct was changed.
- 2) Two seals were added to the Fusing Fan.

Reason: To facilitate assembly on the production line.

Note: The Fusing Fan Duct tended to be bent inward when the fusing fan was installed. This sometimes caused the fusing fan blade to touch the Fusing Fan Duct.



Bent
Fusing Fan Motor and
Fusing Fan Duct

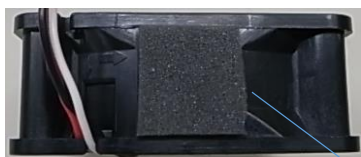
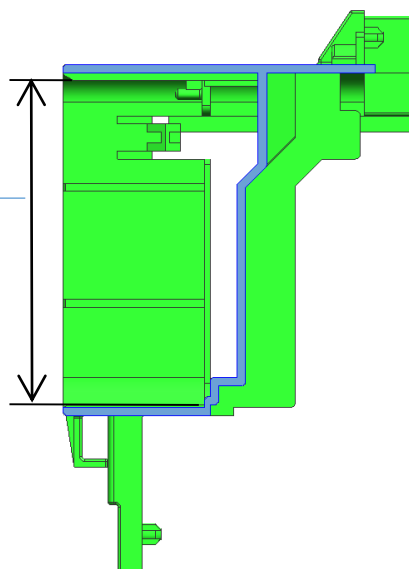
Model: Ti-P1

Date: 22-May-15

No.: RM109050

Fusing Fan Duct

59.0 ± 0.3 to 60.8 ± 0.3



SEAL - 15X15X3MM

Model: Ti-P1

Date: 22-May-15

No.: RM109050

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T415R5xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T415R5xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T415R5xxxxx

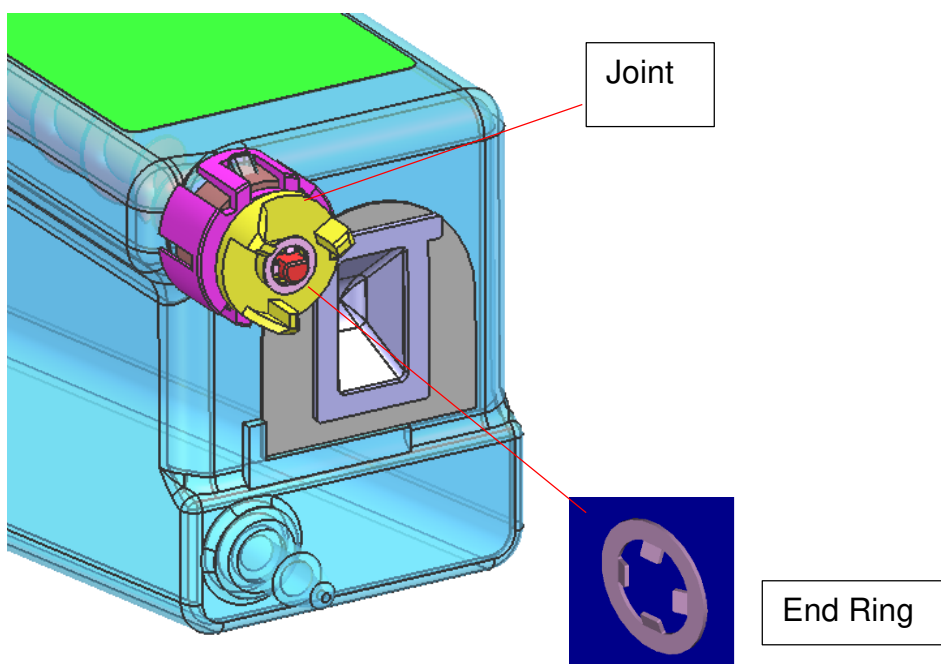
Model: Ti-P1		Date: 22-May-15	No.: RM109051
Subject: Waste Toner Bottle Joint Stopper		Prepared by: H.K.	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> 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	Note
	08050109	END RING:CS TYPE - 3.5MM	0 - 1		

Change: An End Ring was added to the Waste Toner Bottle as a joint stopper.

Reason: To ensure that the joint stays intact even if the bottle is dropped or thrown with force during transport.

Note: This was reported from the field in Japan.



RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN	115/60	USA	M109-17	T415R5xxxxx

Model: Ti-P1

Date: 22-May-15

No.: RM109051

Ricoh: Aficio SP C730DN				
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T415R5xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T415R5xxxxx

Model: Ti-P1		Date: 26-Aug-15	No.: RM109052
Subject: CASE:REMOVE PAPER DUST:SUB-ASS'Y		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	Note
M1093820		CASE:REMOVE PAPER DUST:SUB-ASS'Y	1 - 0	-	Delete

Change: The Sub-Ass'y Remove Paper Dust Case was deleted from the Parts Catalog.

Reason: The part only existed in the Parts Catalog and is not needed.

Model: Ti-P1		Date: 16-Sep-15	No.: RM109053
Subject: Drive Unit & Toner Supply Pulley		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 checked="" type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
M1091136	M1091158	DRIVE UNIT:PHOTOCONDUCTOR:ASS'Y	1 - 1	X/X	X/O as a set
M1091192	M1091166	PULLEY:TONER SUPPLY:DRIVE - 19Z	1 - 1	X/X	

Change: The shapes of the Drive Toner Supply Pulley and the supply drive joint in the Photoconductor Drive Unit

Reason: To reduce the noise between the Photoconductor Drive Unit and Drive Toner Supply Pulley

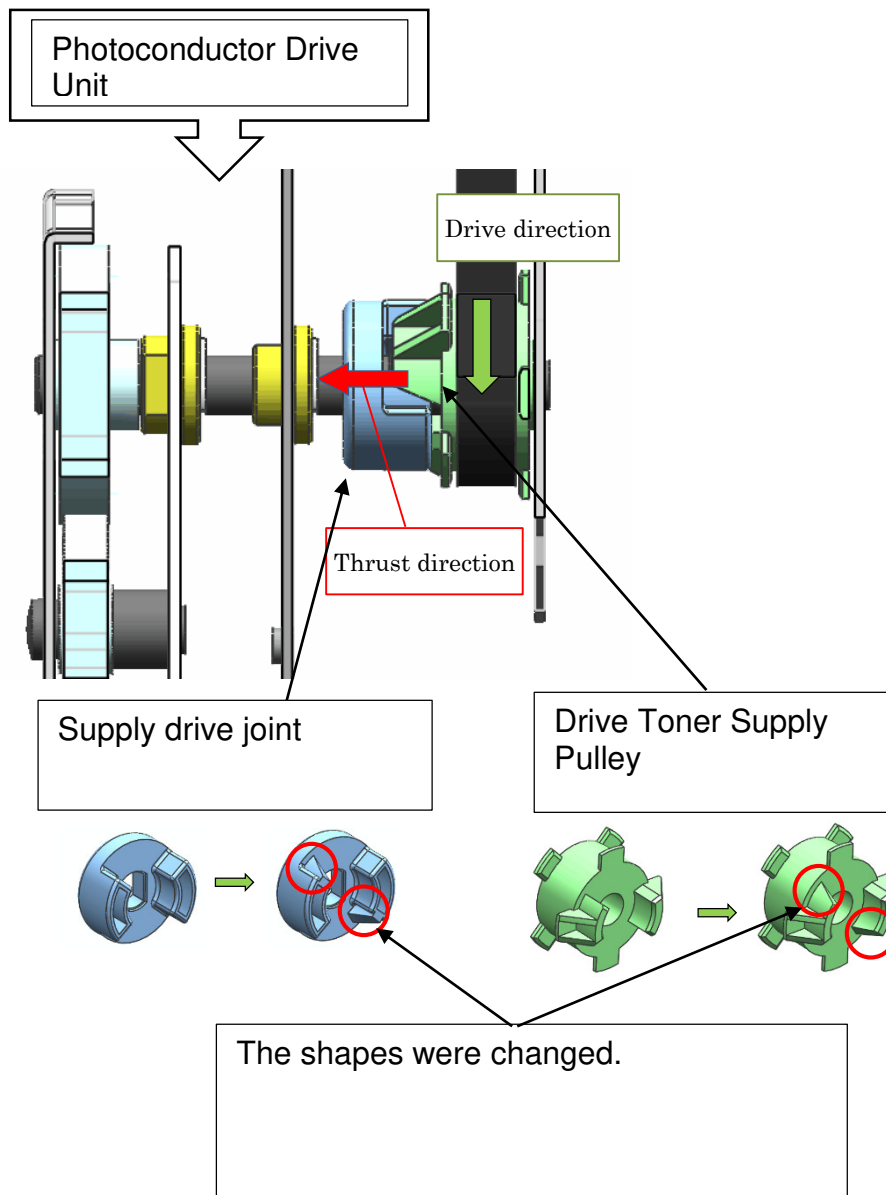
Important:

There is no interchangeability (**X/X**) between the old and new parts. When the old part needs to be replaced, make sure to replace it with the new parts listed in the table **together as a set**.

Model: Ti-P1

Date: 16-Sep-15

No.: RM109053



RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN	115/60	USA	M109-17	T415RAxxxxxx
Lanier: SP C730DN				
Ricoh: Aficio SP C730DN				

Model: Ti-P1		Date: 16-Sep-15		No.: RM109053
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T415RAxxxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T415RAxxxxxx

Model: Ti-P1		Date: 11-Nov-15	No.: RM109054
Subject: Manual correction - Caution note on PSU replacement		Prepared by: H.K.	
From: 1st MFP Tech Service Sec., MFP Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other ()	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier 2

Please add the following caution in the field service manual in these sections:

Replacement and Adjustment > General Cautions

Replacement and Adjustment >Electrical Components > PSU

Parts number	Parts description	Product code
GZ230067	POWER SUPPLY UNIT:NA:227W	M109-17
GZ230068	POWER SUPPLY UNIT:EU/AA/CHN:227W	M109-21,-27

Model: Ti-P1

Date: 11-Nov-15

No.: RM109054

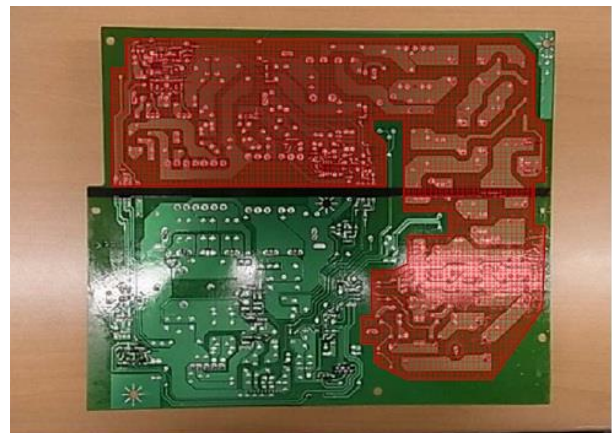
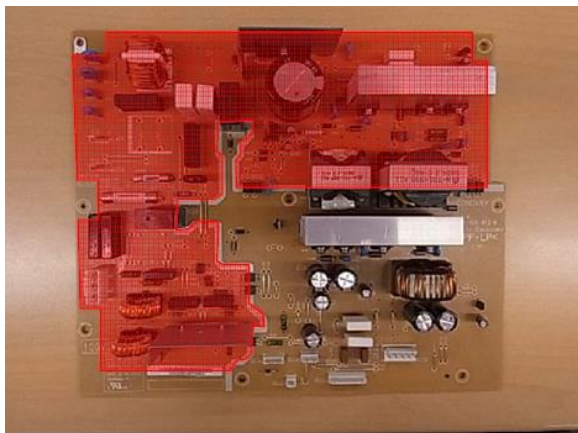
⚠ CAUTION:

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

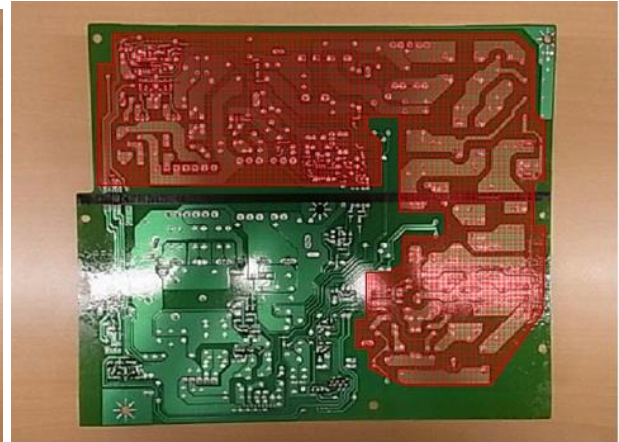
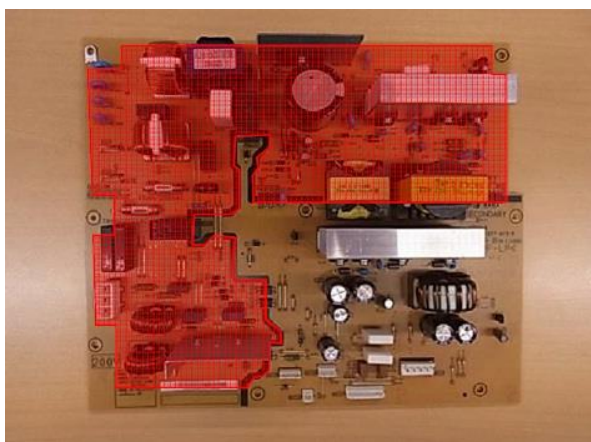
Residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.

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.

GZ230067



GZ230068



Model: Ti-P1		Date: 1-Feb-17	No.: RM109055
Subject: New Toner Supply Clutch & Gear		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 checked="" type="checkbox"/> Tier 2

Old part number	New part number	Description	Q'ty	Int	Note
GB013123	GB013135	GEAR:SUPPLY:ELECTROMAGNETIC CLUTCH:YELLOW	1 - 1	O/O	O/O as a set
GX202123	GX202101	ELECTROMAGNETIC CLUTCH:SUPPLY:0.25NM	1 - 1	X/X	
GB013126	GB013136	GEAR:SUPPLY:ELECTROMAGNETIC CLUTCH	3 - 3	O/O	O/O as a set
GX202123	GX202101	ELECTROMAGNETIC CLUTCH:SUPPLY:0.25NM	3 - 3	X/X	

Change: The vendor of the toner supply clutch changed. The length of the D-cut on the supply gear was extended from 8 mm to 18 mm to prevent the clutch from interfering with the supply gear when assembling the clutch and gear.

Reason: To prevent SC365 (Toner End Sensor output count error) caused by a rusted clutch, which was a problem reported from the field.

Important

There is no interchangeability (**X/X**) between the old gear and the new clutch. When the old clutch needs to be replaced, make sure to replace it with the new clutch and new gear listed in the table **together as a set**.

Gear and Clutch Interchangeability Table

			Clutch	
			Old	New
			GX202123	GX202101
Gear (Yellow)	Old	GB013123	Yes	No
	New	GB013135	Yes	Yes
Gear	Old	GB013126	Yes	No
	New	GB013136	Yes	Yes

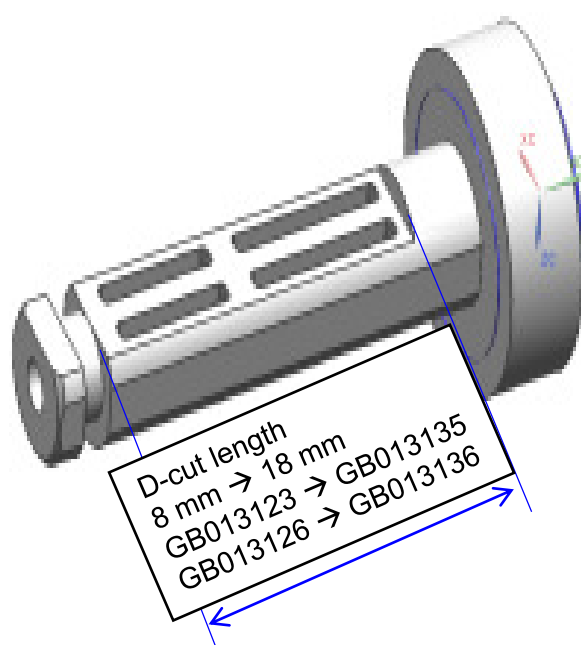
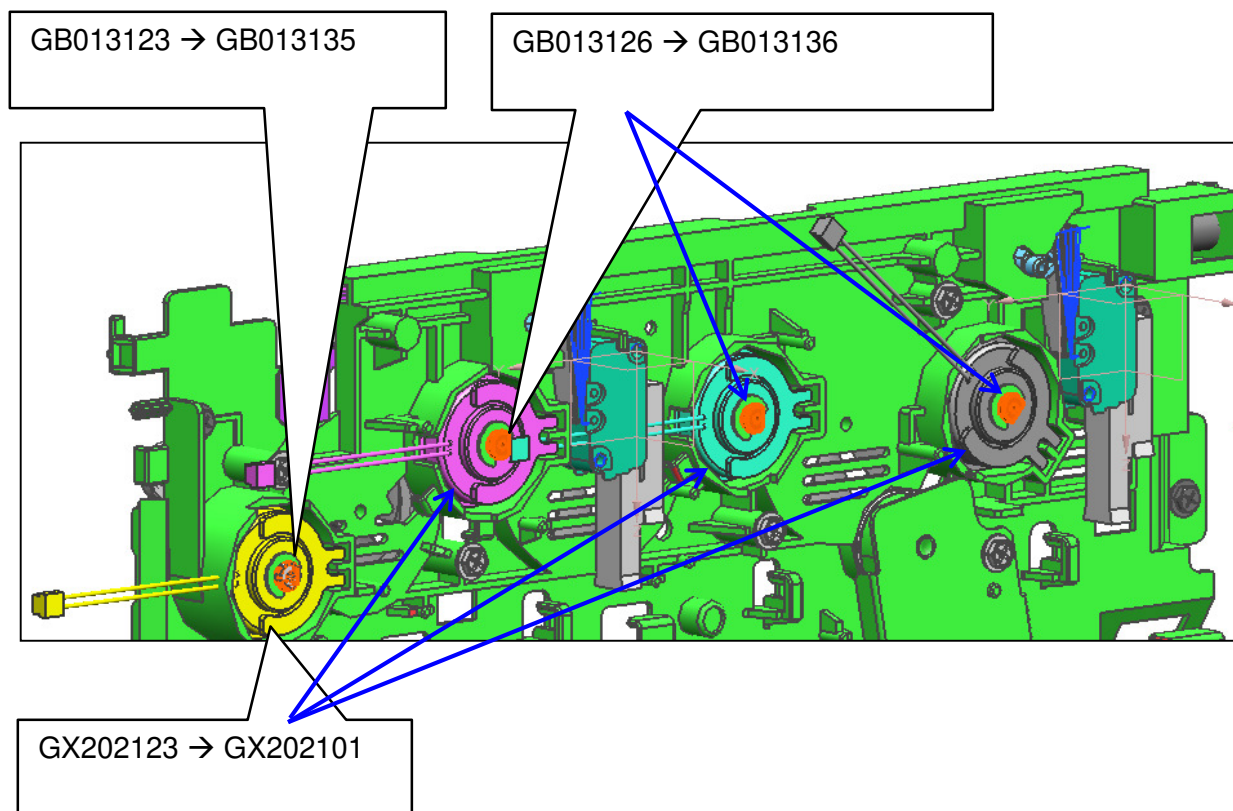
Yes : The parts can be assembled.

No : The parts cannot be assembled.

Model: Ti-P1

Date: 1-Feb-17

No.: RM109055



Model: Ti-P1

Date: 1-Feb-17

No.: RM109055

RMT (Thailand) Production

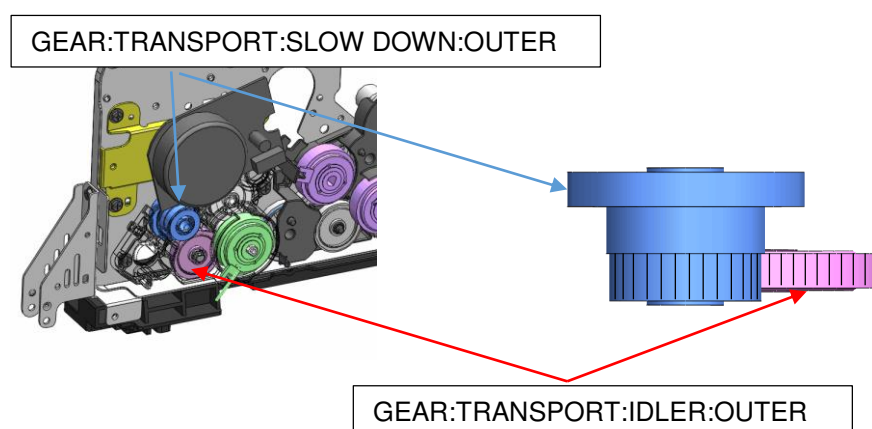
MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T417R1xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T417R1xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T417R1xxxxx

Model: Ti-P1		Date: 2-Feb-17	No.: RM109056
Subject: Modification to prevent noise from the transport gear		Prepared by: H.K.	
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

Old part number	New part number	Description	Q'ty	Int	Note
GA146122	GA146138	SHAFT:TRANSPORT:CONNECTING	1 - 1	X/X	O/O as a set
GB017138	GB017148	GEAR:TRANSPORT:SLOW DOWN: OUTER	1 - 1	X/X	
M1091176	M1091173	BRACKET:TRANSPORT:2	1 - 1	X/X	

Changes: A stopper ring was added to the Connecting Transport Shaft. The height of the Outer Slow Down Transport Gear was decreased by 2 mm. The shape of the Transport Bracket was changed for assembling.

Reason: To reduce noise caused by interference between the Outer Slow Down Transport Gear and the Outer Idler Transport Gears



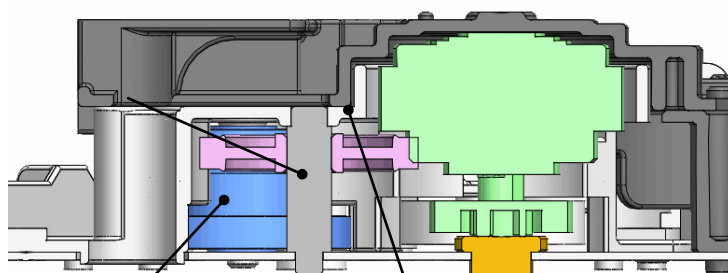
Model: Ti-P1

Date: 2-Feb-17

No.: RM109056

Old

SHAFT: TRANSPORT: CONNECTING

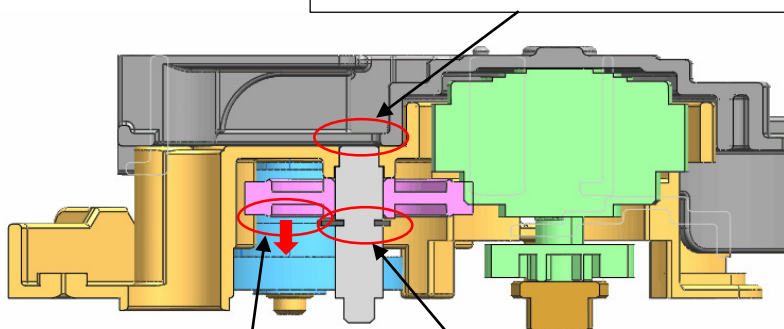


GEAR: TRANSPORT:
SLOW DOWN: OUTER

BRACKET: TRANSPORT: 2

New

The shape of the Transport Bracket was changed.



A stopper ring was added to the Connecting transport Shaft.

The height of the Outer Slow Down Transport Gear was decreased by 2mm.

RMT (Thailand) Production

MODEL NAME	V/Hz	DESTINATION	CODE	SERIAL NUMBER
Savin: SP C730DN Lanier: SP C730DN Ricoh: Aficio SP C730DN	115/60	USA	M109-17	T417R1xxxxx
Lanier SP C730DN Ricoh: Aficio SP C730DN	220/50	Europe, Asia	M109-27	T417R1xxxxx
Ricoh: Aficio SP C730DN	220/50	China	M109-21	T417R1xxxxx