

Reissued: 01-Jul-15

Model: PD-D1	Date: 12-Apr-12	No.: RC279001c
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RTB Reissue

The items in bold italics have been corrected or added.

Subject: Firmware Release Note: Main(A3)		Prepared by: Y. Kuwabara	
From: 2nd 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 **Main (A3)**.

Version	Program No.	Effective Date	Availability of RFU
<i>1.12</i>	<i>C2795116F</i>	<i>June 2015 production</i>	<i>Not available</i>
1.11	C2795116E	October 2014 production	Not available
1.09	C2795116D	June 2013 production	Not available
1.07	C2795116C	1st Mass production	Not available

Note: Definition of Availability of RFU via @Remote

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

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

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Model: PD-D1	Date: 12-Apr-12	No.: RC279001c
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Version	Modified Points or Symptom Corrected																																																
1.12	<p>Symptom corrected:</p> <ul style="list-style-type: none"> - User Codes cannot be cleared in one operation ("Clear all" does not work). 																																																
1.11	<p>Other changes (only EU models): The default setting for the Auto-Off Timer was changed from OFF to ON.</p>																																																
1.09	<p>Other changes:</p> <p>The following SP modes were added.</p> <p>SP6-170: Displays the detection results of original length sensors 1 and 2. SP6-171-179: Displays the detection results of the width sensors. SP6-180: Adjusts the timing for turning the lamp ON when detecting the size of the original</p> <table border="1"> <thead> <tr> <th>SP6-</th> <th>Name</th> <th>Default</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>170</td> <td>APS Operation Check</td> <td>-</td> <td>ON/OFF</td> </tr> <tr> <td>171</td> <td>Scan Size Detect Value (S1 R)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>172</td> <td>Scan Size Detect Value (S1 G)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>173</td> <td>Scan Size Detect Value (S1 B)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>174</td> <td>Scan Size Detect Value (S2 R)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>175</td> <td>Scan Size Detect Value (S2 G)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>176</td> <td>Scan Size Detect Value (S2 B)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>177</td> <td>Scan Size Detect Value (S3 R)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>178</td> <td>Scan Size Detect Value (S3 G)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>179</td> <td>Scan Size Detect Value (S3 B)</td> <td>0</td> <td>0~255 (digit)</td> </tr> <tr> <td>180</td> <td>Lamp ON: Delay Time</td> <td>40</td> <td>0~200 (msec)</td> </tr> </tbody> </table>	SP6-	Name	Default	Range	170	APS Operation Check	-	ON/OFF	171	Scan Size Detect Value (S1 R)	0	0~255 (digit)	172	Scan Size Detect Value (S1 G)	0	0~255 (digit)	173	Scan Size Detect Value (S1 B)	0	0~255 (digit)	174	Scan Size Detect Value (S2 R)	0	0~255 (digit)	175	Scan Size Detect Value (S2 G)	0	0~255 (digit)	176	Scan Size Detect Value (S2 B)	0	0~255 (digit)	177	Scan Size Detect Value (S3 R)	0	0~255 (digit)	178	Scan Size Detect Value (S3 G)	0	0~255 (digit)	179	Scan Size Detect Value (S3 B)	0	0~255 (digit)	180	Lamp ON: Delay Time	40	0~200 (msec)
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1.07	1st Mass production																																																

Reissued: 01-Jul-15

Model: PD-D1	Date: 12-Apr-12	No.: RC279002b
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RTB Reissue

The items in bold italics have been corrected or added.

Subject: Firmware Release Note: Main(B4)		Prepared by: Y. Kuwabara	
From: 2nd 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 **Main(B4)**.

Version	Program No.	Effective Date	Availability of RFU
1.12	C2765116E	June 2015 production	Not available
1.09	C2765116D	June 2013 production	Not available
1.07	C2765116C	1st Mass production	Not available

Note: Definition of Availability of RFU via @Remote

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

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

Version	Modified Points or Symptom Corrected																																																
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Reissued: 01-Jul-15

Model: PD-D1		Date: 12-Apr-12	No.: RC279002b
Version	Modified Points or Symptom Corrected		
1.07	1st Mass production		

Model: PD-D1	Date: 12-Apr-12	No.: RC279003
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Subject: Firmware Release Note: ADF_LHOTSE_PE		Prepared by: K. Yamamoto	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Other (Firmware)	<input checked="" type="checkbox"/> Tier 2

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

Version	Program No.	Effective Date	Availability of RFU
01.010:01	D5785390A	1st Mass production	Not available

Note: Definition of Availability of RFU via @Remote

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

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

Version	Modified Points or Symptom Corrected
01.010:01	1st Mass production

Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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Subject: Exit Pawl Timing Adjustment		Prepared by: K. Yamamoto	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Tier 2

SYMPTOM

The Exit Pawl might be stuck to the drum during machine installation.

Target machines: Machines produced before July 2012.

Note: Machines from July production have been modified to correct this symptom.

CAUSE

The exit pawl timing was not adjusted correctly at the factory.

SOLUTION

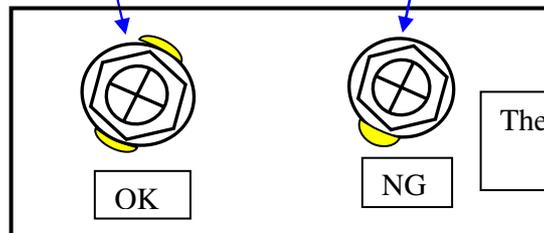
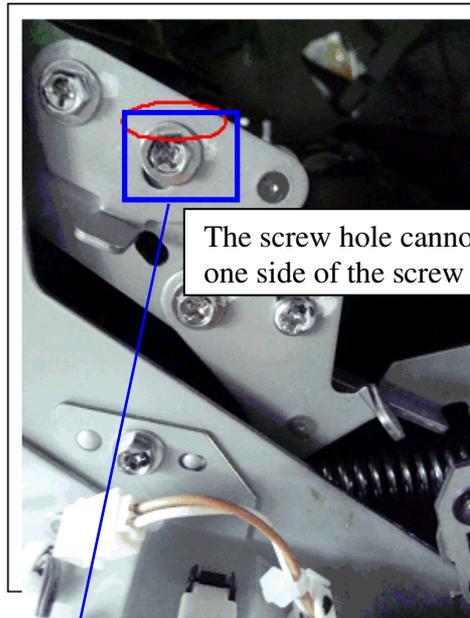
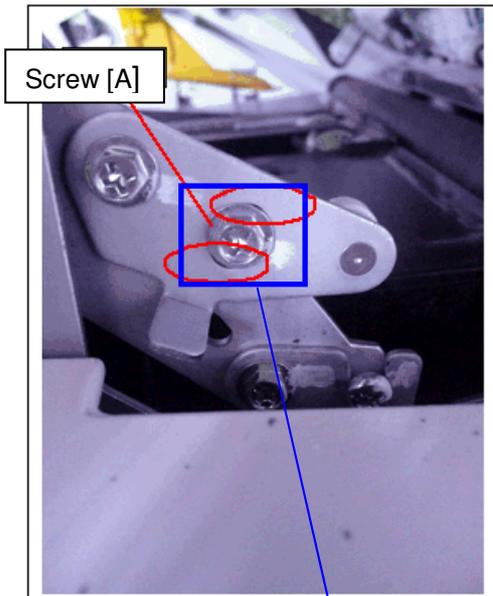
At machine installation or the next service visit:

Check whether the exit pawl timing is correct (**Procedure I** below), and if it is not, adjust the pawl timing (**Procedure II** below).

Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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Procedure I: Checking whether exit pawl timing is correct

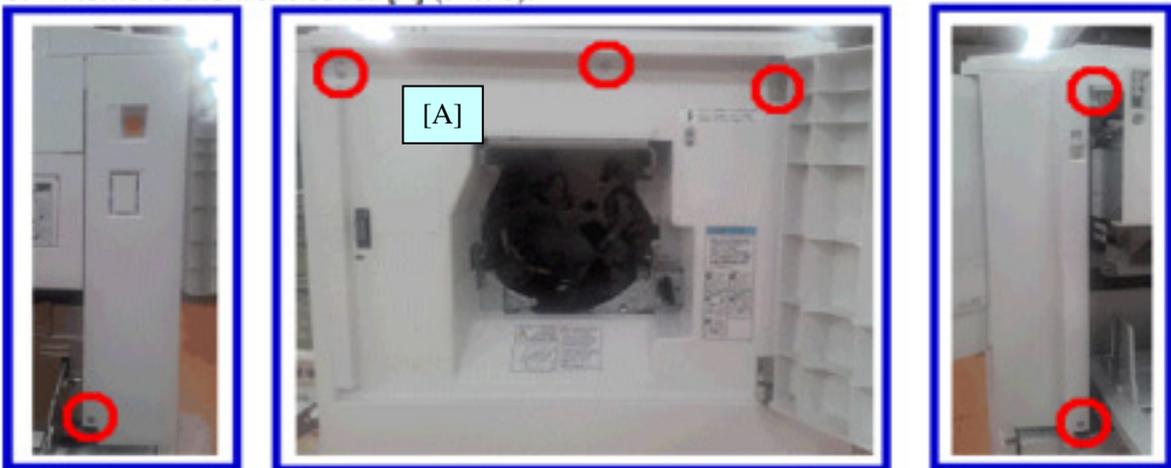
1. Pull out the drum from the machine.
2. Check whether you can see the screw hole behind the screw [A].
 - If you **can** see any part of the screw hole, even if only a very small part (shown in yellow in the diagrams below), you **do not need** to do the “Adjusting the exit pawl timing” procedure below.
 - If you cannot see any part of the screw hole, do the procedure below.



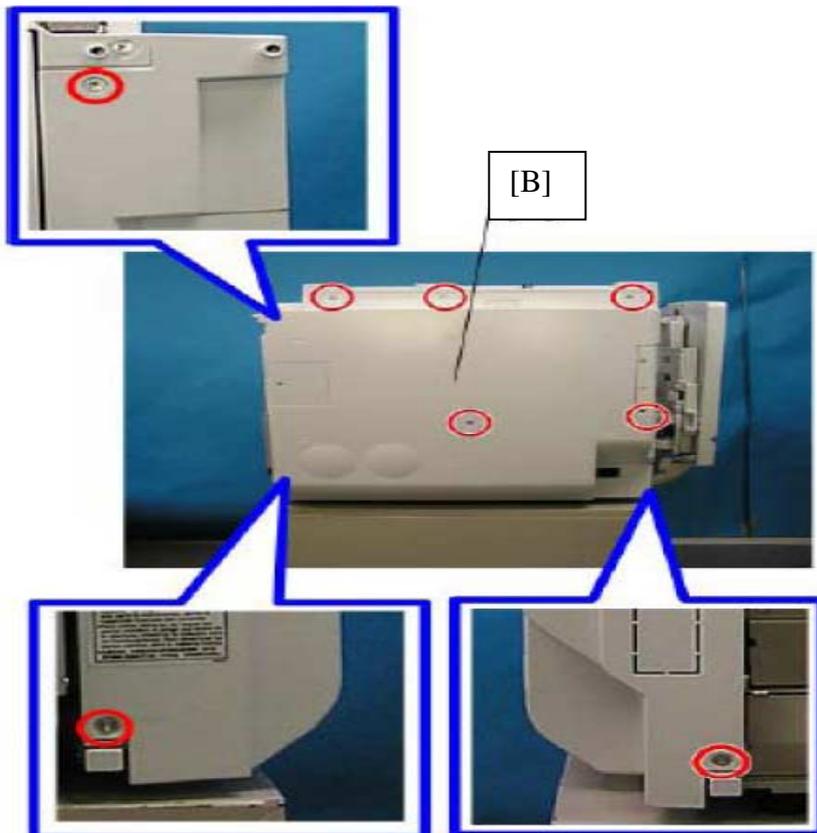
The screw hole is shown in yellow

Procedure II: Adjusting the exit pawl timing

1. Remove the drum from the machine.
2. Remove the front cover [A] (screws x 6).



3. Remove the rear cover [B] (screws x 8).

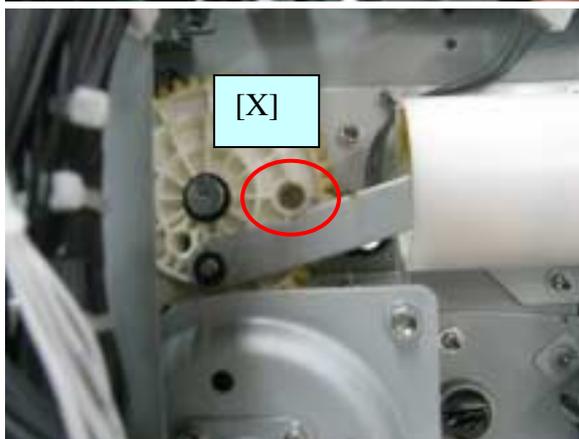
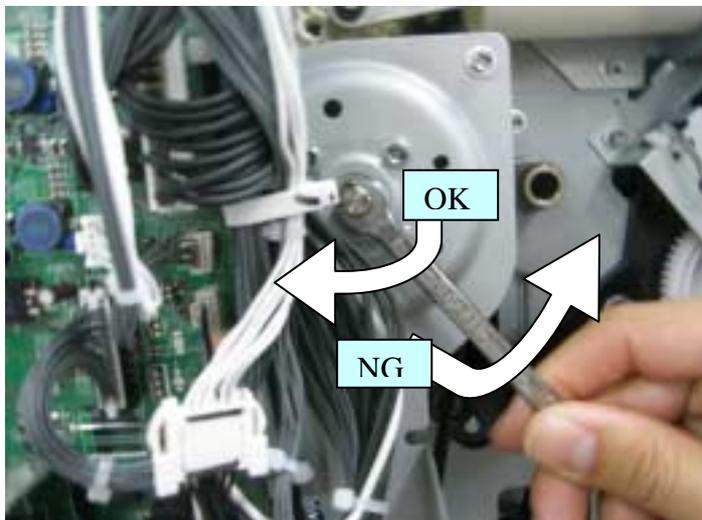


4. Reattach the drum.

Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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- Turn the main drive unit slowly **clockwise**, using a size 7 spanner, until the gear [X] is in the position shown in the photograph.

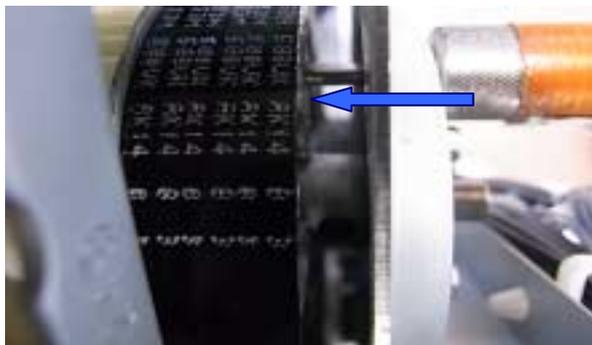
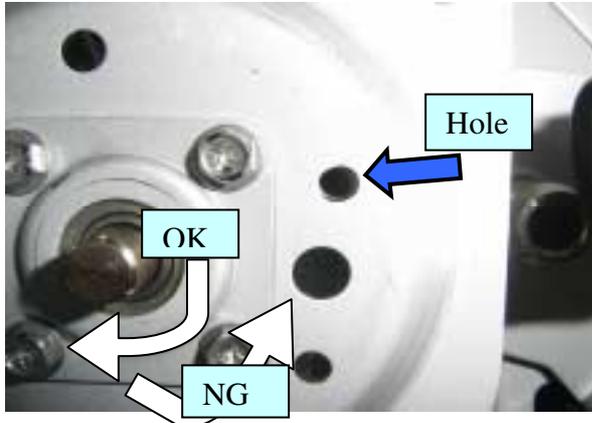
Important: Do not turn the drive unit counter-clockwise.



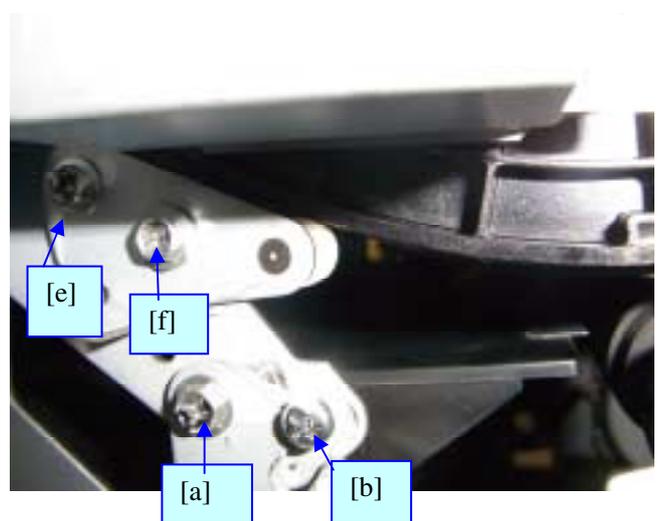
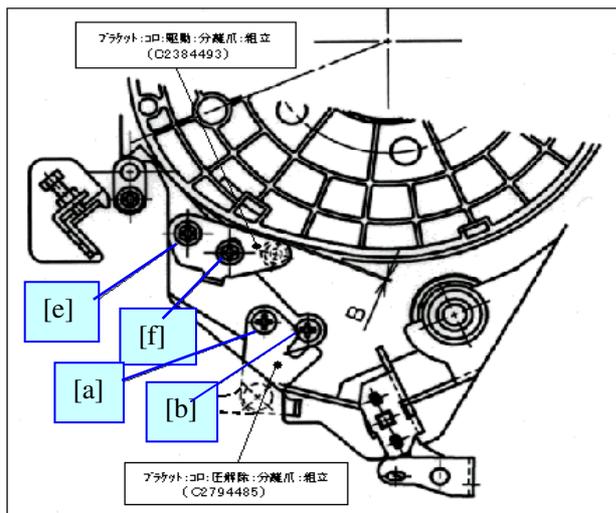
Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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6. Insert the pin (diameter: 4mm) into the following hole.

Important: If the pin does not go through to the drive gear, turn the main drive slightly and try again.

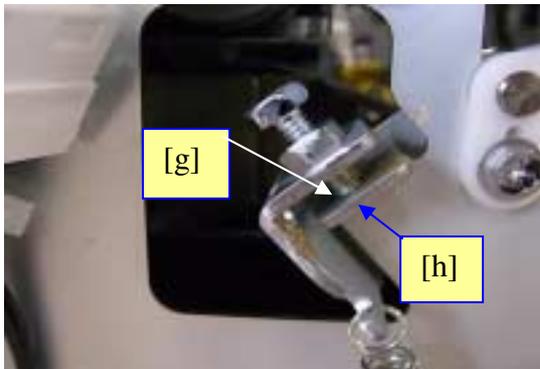


7. Loosen screws [a], [b], [e], and [f].

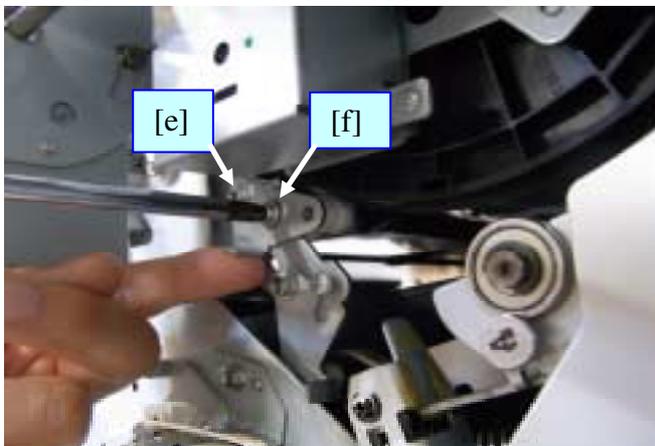


Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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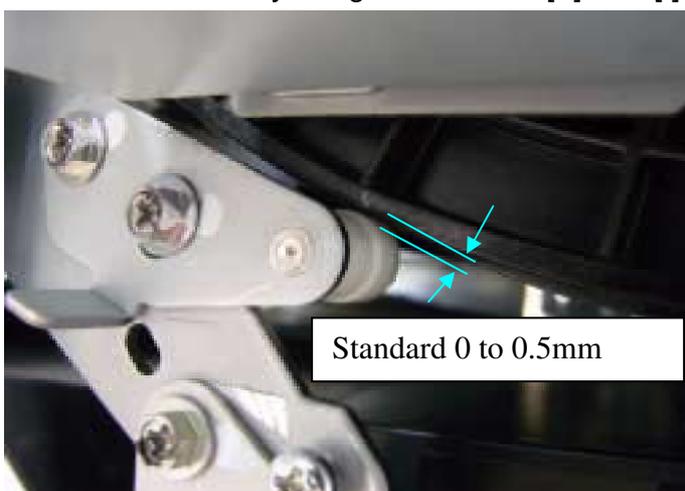
8. Make sure that the tip of the screw [g] touches the bracket [h].



9. Tighten screws [e] and [f] while pushing the cam follower up against the cam flange.



Important: Make sure the gap between the cam follower and cam flange is 0 to 0.5mm after you tighten screws [e] and [f].

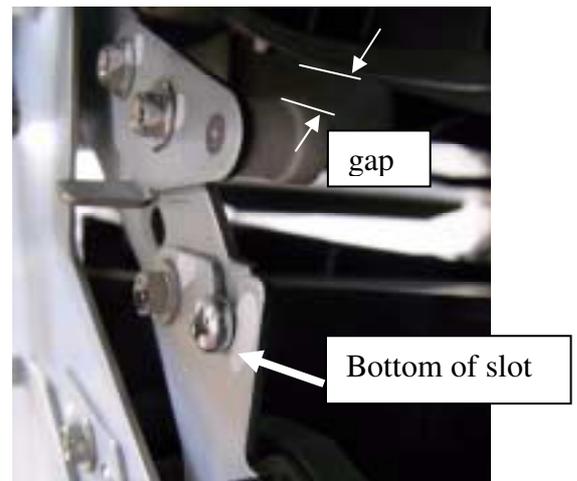
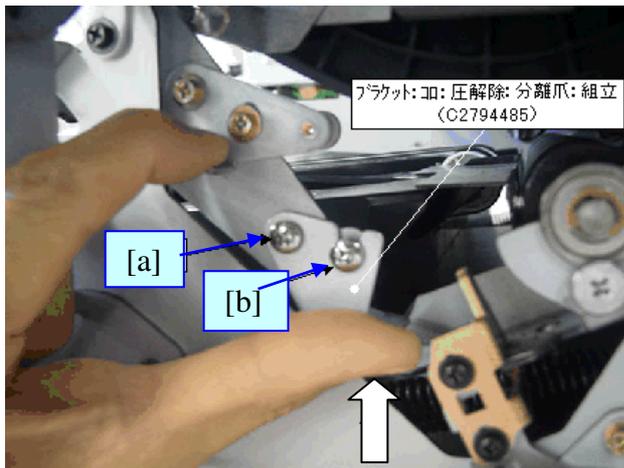


Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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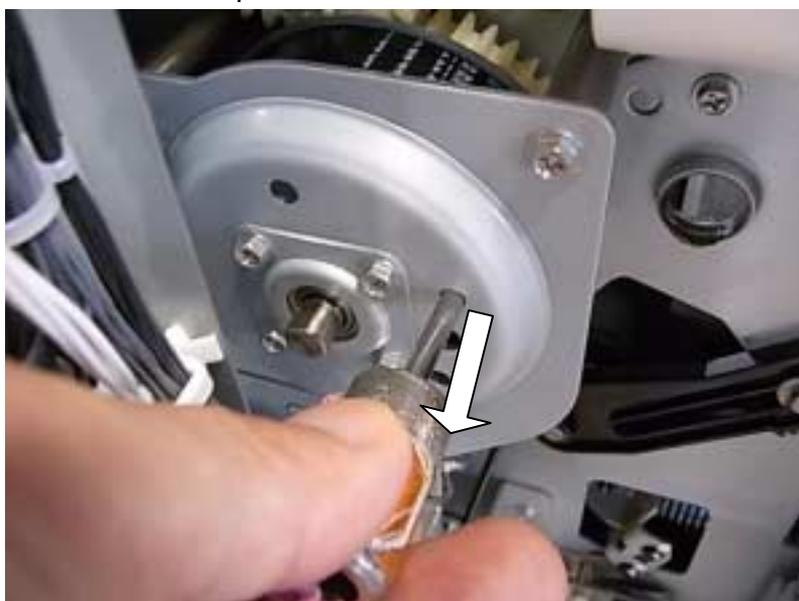
10. Push the bracket [H] up using your thumb, and tighten screws [a] and [b].

Important:

- Make sure screw [b] is touching the bottom of the slot.
- Make sure the gap between the cam flange and cam follower is wider after you tighten screws [a] and [b].



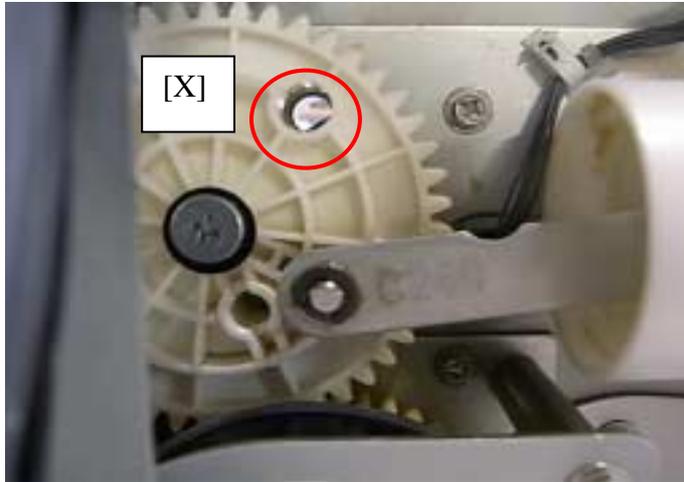
11. Remove the pin from the hole.



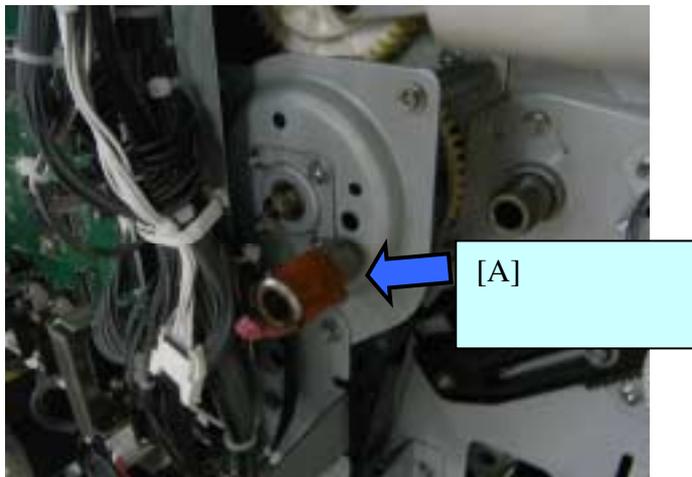
Model: PD-D1	Date: 9-Sep-12	No.: RC279004
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12. Turn the main drive unit slowly to its home position, using a spanner.

Note: The home position is the position where the hole in the gear [X] is lined up with the hole in the mainframe, as shown in the photo.



13. Insert the pin into the hole shown below [A], to check if the main drive is in the home position. Then, pull out the pin.



14. Reassemble the machine and make a few printouts to check if the machine works correctly.

Model: PD-D1	Date: 9-Sep-12	No.: RC279005
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Subject: Replace base of side fence		Prepared by: K. Yamamoto	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Tier 2

SYMPTOM

The base of the side fence for the paper exit table might break.

Target machines: Machines produced before July 2012.

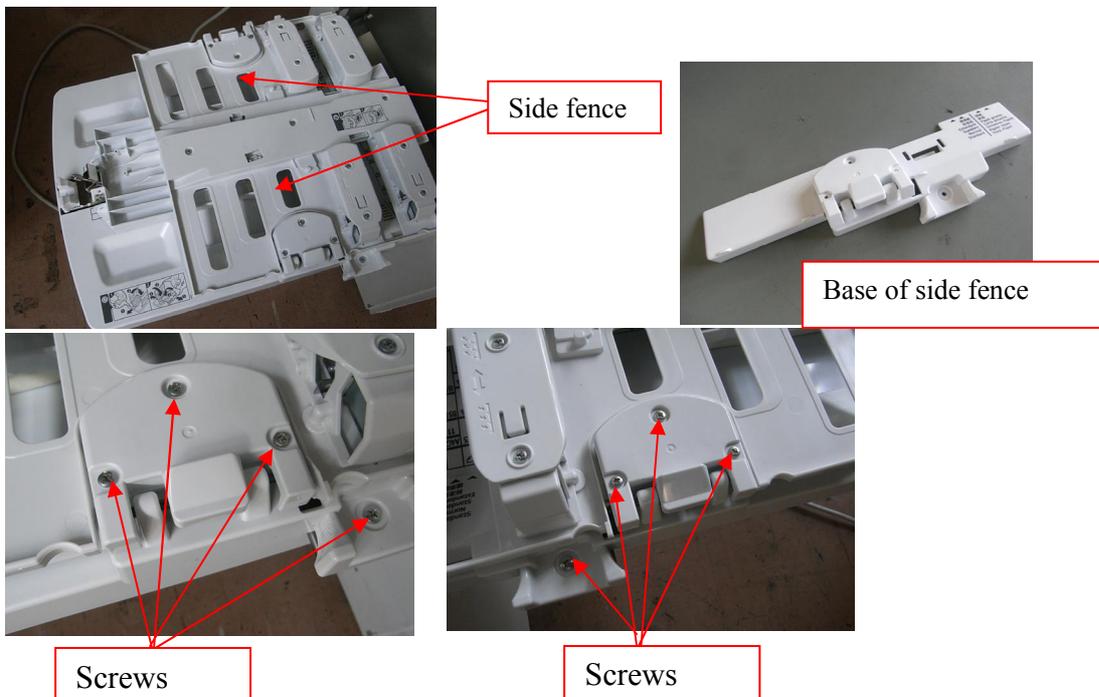
Note: Machines from July production have been modified to correct this symptom.

CAUSE

The oil on the shaft of the side fence base reduces the strength of the base (this oil should not be present on the shaft).

SOLUTION

Replace the bases of the side fences for the paper exit table (screw x4 front, x4 rear).



Model: PD-D1	Date: 24-Sep -12	No.: RC279006
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Subject: Part Catalog correction – Main Drive		Prepared by: K. Yamamoto	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept			
Classification:	<input type="checkbox"/> Troubleshooting	<input checked="" type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other ()	<input type="checkbox"/> Tier 2

23. Drive Section 1 (C277/C278/C279)

Incorrect part number	Correct part number	Description	Q'ty	Page	Index
C2791161	C2791160	Gear: Drive: Drum: Ass'y	1	53	10

Change/Reason: The part number in the catalog was incorrect.

Model: PD-D1	Date: 2-Jun-14	No.: RC279007
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Subject: Special friction pad for abrasion		Prepared by: K. Yamamoto	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Tier 2

SYMPTOM

The paper is abraded after contacting the friction pad during paper feed.

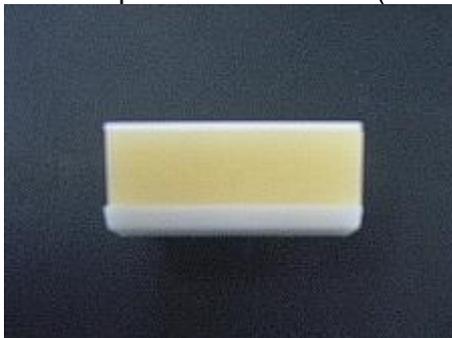
CAUSE

The friction of the normal friction pad is too high or too low for some paper types.

SOLUTION

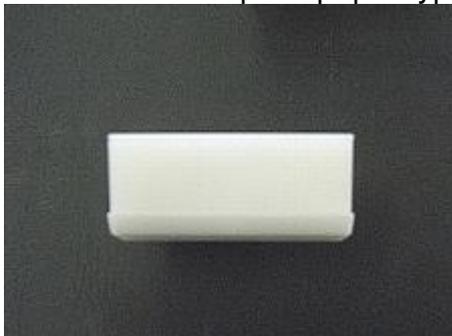
If the symptom occurs, replace the friction pad with one of the following types, which are designed to handle a wide range of paper types.

Friction pad 2: **C2649001** (Coefficient of friction is **less than** that of the normal pad)



Friction pad 3: **C2649002** (Coefficient of friction is **even less than** Friction pad 2)

Note: Normal/plain paper types cannot be fed with this friction pad.



Model: PD-D1

Date: 2-Jun-14

No.: RC279007

IMPORTANT:

- Use these friction pads only when feeding thick paper (180K) for which the symptom (abrasion problem) occurs. If normal/plain paper is fed with these pads, a multi-feed will occur.
- The yield of friction pad 2 is lower than that of normal friction pads.
 - ◇ Friction pad 2: 300K
 - ◇ Friction pad 3: 1200K (same as normal friction pad)
- Try using friction pad 2 first, and then if the abrasion issue still occurs, adjust the separation and feed pressure as follows:
 1. Decrease the separation pressure a little at a time.
 2. If the symptom still occurs, decrease the feed pressure a little at a time.
 3. If the symptom still occurs, try using friction pad 3.

Model: PD-D1		Date: 13-Mar-15	No.: RC279008
Subject: Parts information(ADF GRIP)		Prepared by: A.Ishida	
From: 2nd Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input checked="" type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other ()	<input type="checkbox"/> Tier 2

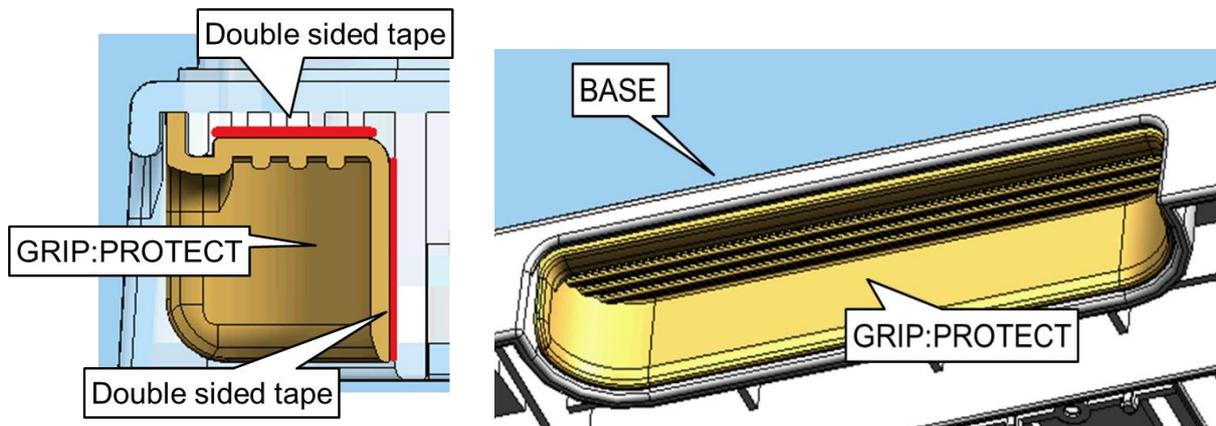
Change: The following assembly was added.

Reason: To increase the adhesive strength between the handgrip and DF base.

Note: The handgrip can be damaged when the DF is opened/closed repeatedly.

Model	Old part number	New part number	Description	Q'ty	Int	Page	Index	Note
LHOTSE-D ARDF 3060	-	D5781991	GRIP:PROTECT:ASS'Y	0-1	-	3	27	

Important: Attach the grip to the base using double-sided tape.



Model: PD-D1		Date: 17-Apr-15	No.: RC279009
Subject: No ink supply		Prepared by: K. Yamamoto	
From: 1st Tech Service Sect., MFP/Printer Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (Firmware)	<input type="checkbox"/> Tier 2

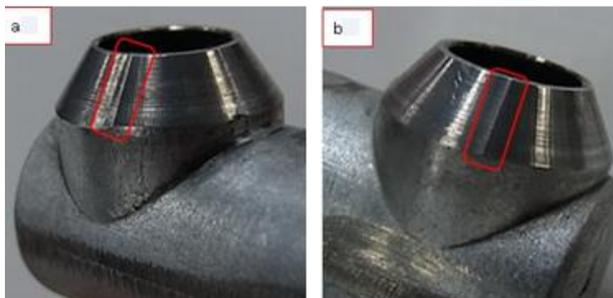
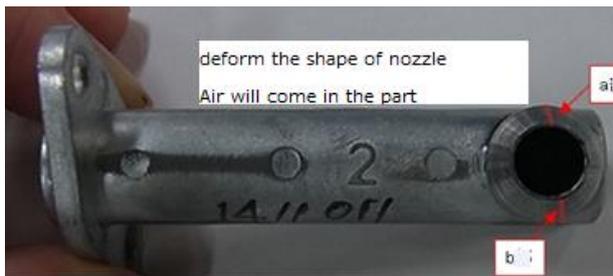
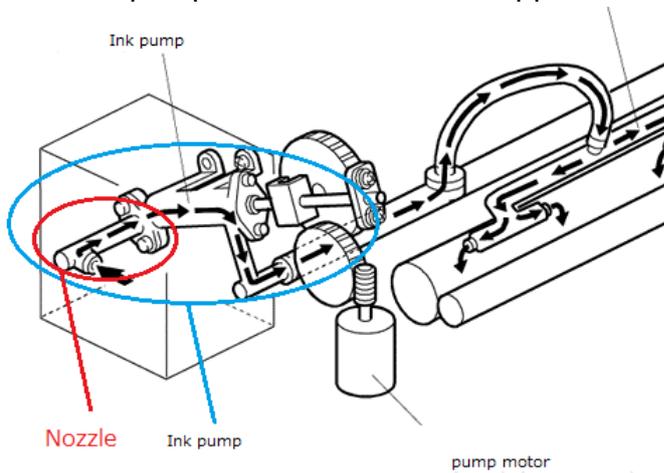
SYMPTOM

“No ink” is displayed while there is still ink remaining in the ink pack.

Note: This occurs on machines manufactured between Dec. 2014 and Feb. 2015.

CAUSE

The ink nozzle is deformed, preventing a firm fit with the ink pack. As a result, air gets inside the pump and ink cannot be supplied to the machine correctly.



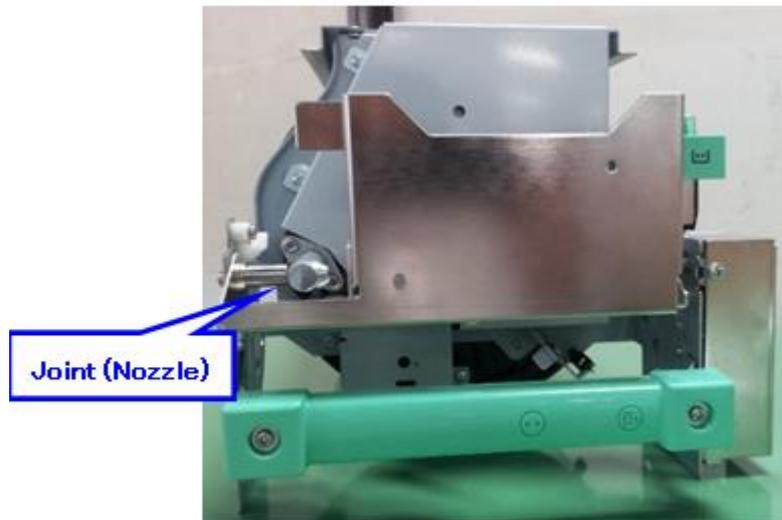
Model: PD-D1

Date: 17-Apr-15

No.: RC279009

SOLUTION

Replace ink nozzle (P/N C2799001).

Procedure

1. Remove the two screws.



2. Remove the nozzle and check the following parts.

Model: PD-D1	Date: 17-Apr-15	No.: RC279009
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Model: PD-D1

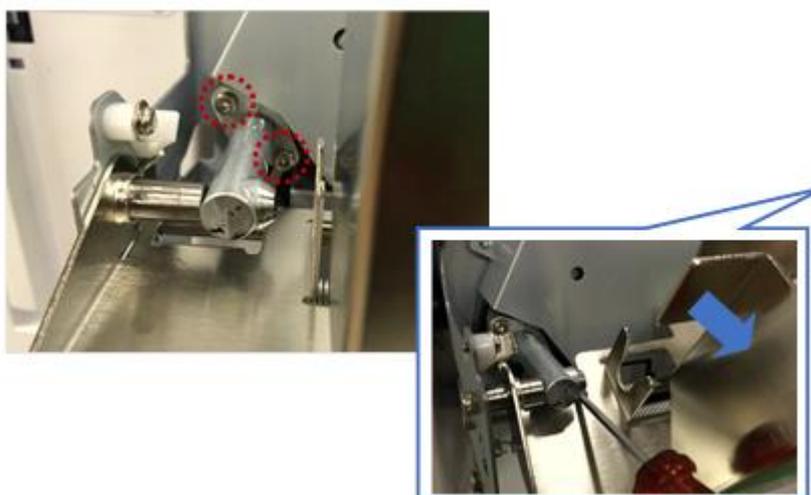
Date: 17-Apr-15

No.: RC279009

3. Replace the nozzle only.



4. Tighten the two screws.



Model: P PD-D1		Date: 21-Feb-17	No.: RC279010
Subject: FSM revision (Master Edge Sensor Adgment)		Prepared by: A.Ishida	
From: 1st Tech Service Sect., MFP/P Tech Service Dept.			
Classification:	<input type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input checked="" type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other ()	<input type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

Service Manual Correction (P.111 Master Edge Sensor Adjustment)

Descriptions in **bold red** were corrected.

4. Replacement and adjustment > Master feed > Thermal head > Master Edge Sensor Adjustment (P. 111)

Master Edge Sensor Adjustment

Ensures that the sensor detects the leading edge of the master.



C249R133

Standard : 2.0 Volts (within "+0.1" and "-0.1" volts)

Tools: Circuit tester

• Rear cover (p.74 "Rear Cover")

1. Connect the terminals of a circuit tester to TP103 and a grounded place (e.g. iron base)
2. Connect the power plug, and turn on the main switch to access SP mode.
3. Select SP6-51 (Master edge sensor voltage)
4. Remove the lower master tray.
5. Pull out the master-making unit from the machine and open the master set cover.
6. Insert the leading edge of the master under the master tension roller, then close the master set cover and reinstall the master-making unit in the machine.
7. Measure the voltage with the circuit tester, and turn VR103 until the value becomes between "-0.1V" and "+0.1" volts from the standard value. (~~3.0 Volts~~ **2.0V within "+0.1"V and "-0.1"V**)

Model: P PD-D1	Date: 21-Feb-17	No.: RC279010
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Note:

When the voltage cannot be adjusted to the standard value, adjust the threshold level of the master edge sensor. (SP6-51: Master edge sensor voltage)

Standard Value Master present	Threshold Level (SP6-51)	Standard Value Master not present
2.0V +- 0.1V	2.8V	Above 3.0V