

Reissued: 8-Mar-04

## RTB Correction

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001a
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b> <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"/> Other (        )			
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

The following is the firmware modification history of Priport product HP4/HP4P.

## FIRMWARE MODIFICATION HISTORY

C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	<i>Pre-production</i>
<b><i>L</i></b>	<b><i>C2495114L.bin</i></b>	<b><i>2.03</i></b>	<b><i>8F29</i></b>	<b><i>Pre-production</i></b>
<b><i>M</i></b>	<b><i>C2495114M.bin</i></b>	<b><i>2.04</i></b>	<b><i>5FCE</i></b>	<b><i>From the start of mass-production</i></b>
<b><i>N</i></b>	<b><i>C2495114N.bin</i></b>	<b><i>2.54</i></b>	<b><i>49A8</i></b>	<b><i>January 2004 production</i></b>

Reissued: 8-Mar-04

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001a
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Symptom Corrected / Changes	Suffix
-	K
-	L
<i>First mass production release.</i>	M
<ol style="list-style-type: none"> <li><i>1. The opening/closing time of the master clamper has been changed from 225 mm/sec to 75 mm/sec to decrease the load factor of the clamper motor and ensure E-00 (clamper error) does not occur.</i></li> <li><i>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum properly when the cutter cuts the master.</i></li> <li><i>3. Misdetection of master eject jam "B", "E".</i></li> </ol>	N

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 1-Oct-03	<b>No:</b> R-C249-002
<b>Subject:</b> Firmware Modification History - Printer controller unit		<b>Prepared by:</b> M. Ohtsubo, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (Firmware Modification History)		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

This is to inform you of the firmware history for the printer controller unit of Model HP4P. Items in ***bold italics*** have been either corrected or added.

## FIRMWARE MODIFICATION HISTORY

Version	File Name	C. SUM	Production
<b><i>V6CU</i></b>	<b><i>C6135012.bin</i></b>	<b><i>B4EB</i></b>	<b><i>1st mass production release</i></b>

**Model:** PRIPORT HP4/HP4P**Date:** 1-Oct-03**No:** R-C249-**002**

Symptom Corrected	Version
<i>(1st mass production release)</i>	<b>V6CU</b>

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 5-Nov-03	<b>No:</b> R-C249-003
<b>Subject:</b> Service remarks at installation		<b>Prepared by:</b> M. Ohtsubo, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other (Specification change)	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

## Background:

Previously, mechanical counters were set to a negative value when shipped from the factory. However, this may cause confusion among some customers as to why the counter value is not "0", even though some installation test prints have already been made.

## Overview:

In order to avoid such confusion, the mechanical counters will be sealed. In place of this, electronic counters are now provided, which are set to "0" when released from the factory (instead of being set to a negative value).

## Details:

### 1. Specification Change

	Specification
Previous	The initial value of the mechanical counters is <u>negative</u> when products are shipped from the factory.
New	Electronic counters have been added, which are set to a value of " <u>0</u> " when products are shipped from the factory. The mechanical counters have been sealed.  <b>Note:</b> After making test prints at installation, the (positive) electrical counter value cannot be set back to "0" with SP mode.

**Model:** PRIPORT HP4/HP4P

**Date:** 5-Nov-03

**No:** R-C249-003

## 2. Firmware Modification

As part of the 0-counter specification change, the electronic counter values for both Master and Print can be displayed on the LCD by holding down the Enter key ("#") for more than three seconds.

## 3. Schedule for the 0-Counter Modification

The following is the current schedule for when the counter modification will be applied. Please note that there are some models to which the change will not be applied (marked as "---"), due to sales-related stipulations or technical limitations such as the lack of an LCD or required memory.

### (1) New products

Product Name	Product Code	Cut-in production month
HP4 / HP4P (Except Standard SD420)	C249	August 2003 production

### (2) Current products

Product Name	Product Code	Cut-in production month
SA2	C244	---
Garnet	C239	---
PinkGold	C238	---
PGB4	C247	---
SV2	C248	---
SV2P	C253	---
TT	C252	---

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 27-Feb-04	<b>No:</b> R-C249-004
<b>Subject:</b> Notes the model HP4/HP4P installation		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

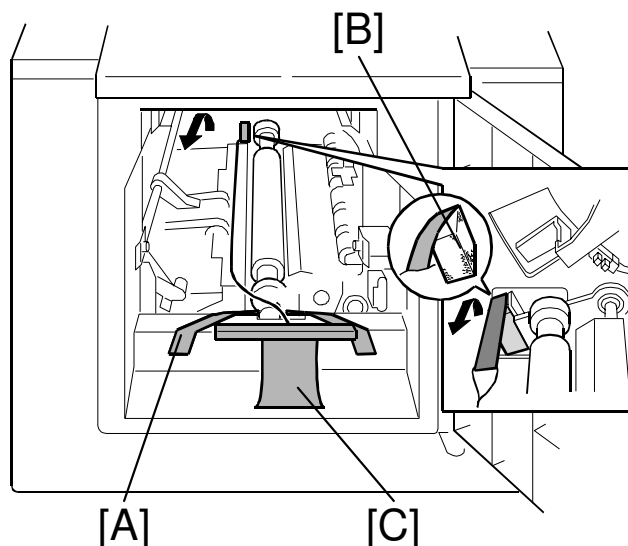
Please add the following information to your HP4/HP4P Service Manuals.

**Note:** The change is applied from March 2004 production for NA/EU, and May 2004 production for China.

### Important Note for Installation:

Strips of tape and a styrene foam sponge have been added as shown below to secure the Press Roller during transport. Please be sure to remove the tape [A], sponge [B] and tag [C] by pulling the portion shown in the diagram toward the front of the machine before beginning machine operation. If they are not removed:

- Paper jams or blank images may occur, due to the lack of pressure on the Press Roller.
- The tape may stick to the drum screen or Press Roller.



<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 8-Mar-04	<b>No:</b> R-C249-005
<b>Subject:</b> Service manual revision		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (       )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

Please apply the following corrections to your Service Manuals.

Page	Item	Incorrect Description	Correct Description
6-1	Detailed Section Description	The "master-making unit" is almost the same as the C238 model.	<b><i>Except for the Master-Making Unit, the machine sections are almost the same as the C238.</i></b>
SPEC-1	Original Size	Maximum 304.8 x 432 mm/ 12.0" x 17.0"	Maximum <b>300.0</b> x 432 mm/ <b>11.8"</b> x 17.0"
SPEC-3	Master Type	270 masters/roll (A4 Drum)	<b>315</b> masters/roll (A4 Drum)



<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 15-Apr-04	<b>No:</b> R-C249-006
<b>Subject:</b> Master wrinkle		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

## Symptom

Wrinkling in the master when the master is wrapped around the drum.

## Cause

The drum does not stop at the proper position for master wrapping, rotating again before completely securing the master.

## Solution

### Production line:

The shape of the master clamp guide has been changed to ensure that the drum stops securely at the proper position and produces smooth masters.

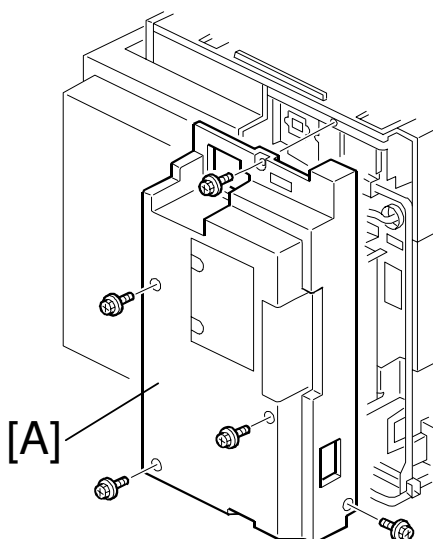
### Action in the field:

Replace the master clamp guide with P/N C2494058 (see MB #C249004).

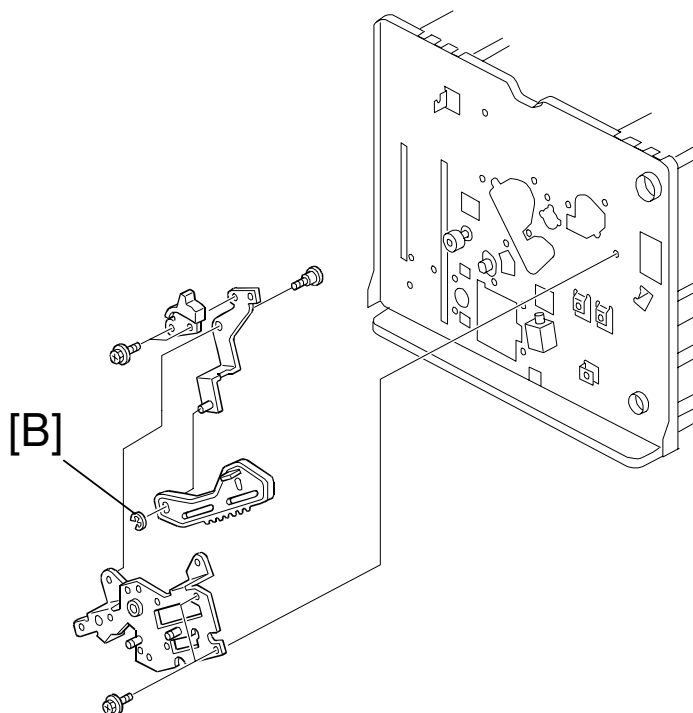
**Note:** The Installation Procedure begins on the next page.

## Master Clamp Guide Replacement Procedure

1. Turn off the main switch and disconnect the power plug.
2. Remove the rear cover [A] (⌀ x 5).



3. Remove the E-ring [B] (⌀ x 1).

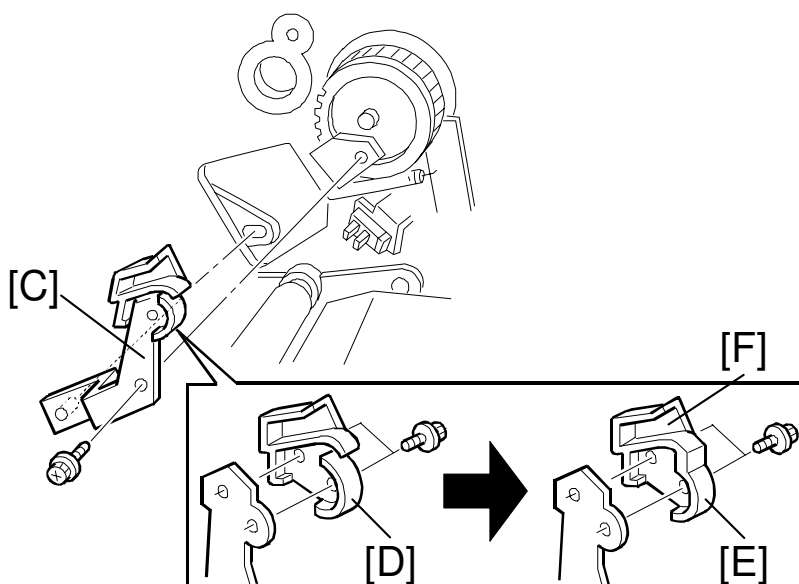


**Model:** PRIPORT HP4/HP4P

**Date:** 15-Apr-04

**No:** R-C249-006

4. Remove the drum unit.
5. Remove the lever [C] (⌘ x 1).
6. Remove the master clamp guide [D] from the lever [C], then replace it with the new master clamp guide (P/N C2494058) [E] (⌘ x 2).
7. Apply grease (P/N 52039502) to area [F] on the new master clamp guide as shown below.  
**NOTE:** Please be sure to use the grease type mentioned above.
8. Reattach the lever [C] (⌘ x 1).



9. Reattach the E-ring [B] (Ⓢ x 1).
10. Reattach the rear cover [A] (⌘ x 5).
11. Reinstall the drum unit.

Reissued: 1-Sep-04

## RTB Correction

The illustration has changed as shown below.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 10-May-04	<b>No:</b> R-C249-007a
<b>Subject:</b> Master Misfeed		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

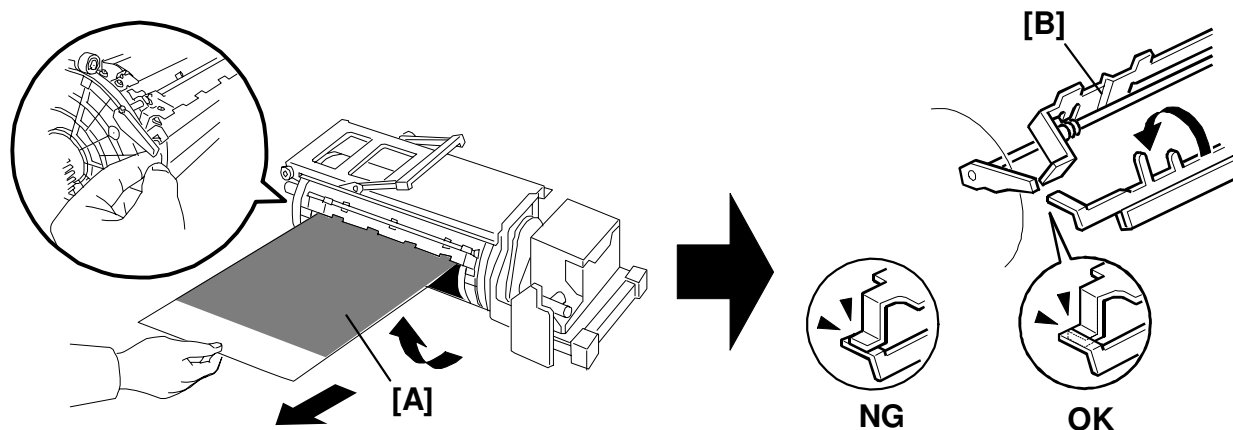
## Symptoms

The following problems occur:

1. A master misfeed (D jam) occurs in the master making unit.
2. Abnormal sounds occur in the machine during the master making process.

## Cause

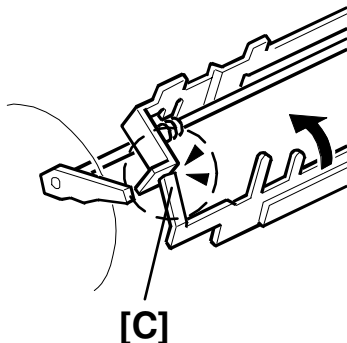
After the customer pulls out the misfed master [A] from the clamber during "B" or "E" jams, the customer attaches the master clamber [B] in reverse by mistake.



Reissued: 1-Sep-04

**Model:** PRIPORT HP4/HP4P**Date:** 10-May-04**No:** R-C249-007a**Solution****Production line:**

A part of the clamber exit pawls [C] has been made 3 mm longer to make it impossible to install the master clamber the wrong way.

**Action in the field:**

Replace the clamp assembly or the clamber exit pawls with P/N C2492309 or C2502407 (see MB #MC249007).

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 9-Jun-04	<b>No:</b> R-C249-008
<b>Subject:</b> Master edge trimming procedure		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (       )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

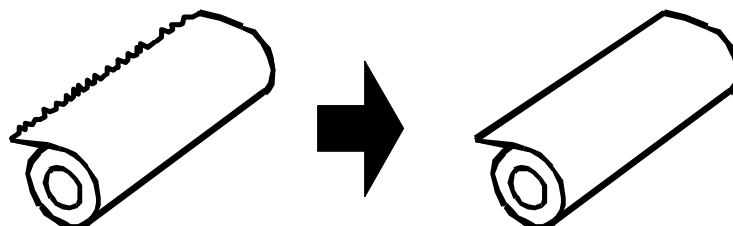
**Please add the following procedure to your Service Manuals.**

## Master Edge Trimming Procedure

### Purpose

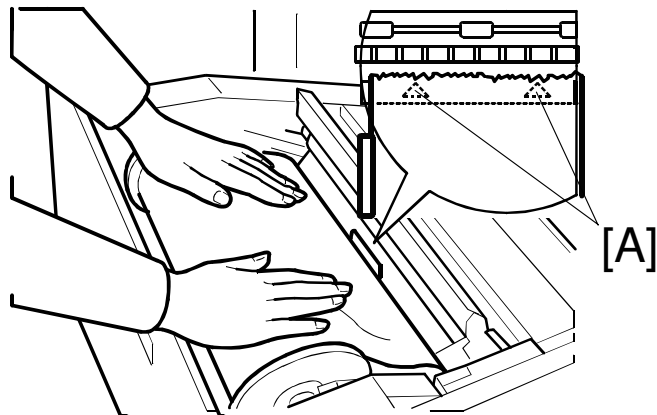
To even off the leading edge of the master roll after the edge has been unevenly cut, such as after a master misfeed jam (D-jam).

**Note:** The following procedure cannot be performed if a misfeed or SC error condition has not been cleared.

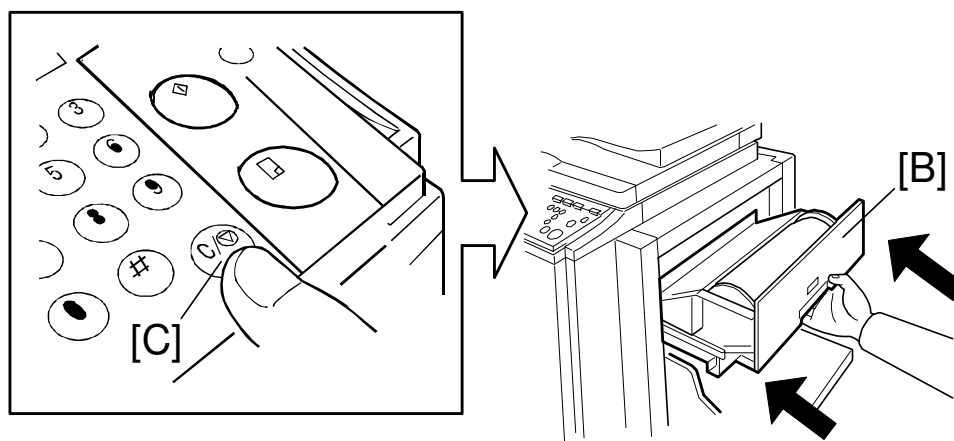


## Procedure

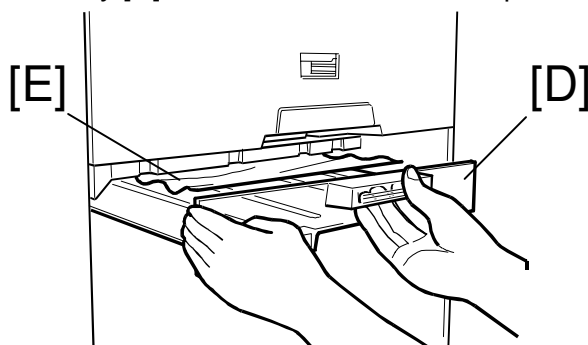
1. Load the master roll in the master making unit.
2. Feed the leading edge manually until it covers the two arrow marks [A].



3. Press the Clear/Stop key [C], and then while holding this key down, push in the master making unit [B].
  - The machine will then trim the leading edge. After this is completed, a beep will sound and the operation panel will display, "Pull out lower master tray or master tray and remove the cut master."



4. Open the lower master tray [D] and remove the trimmed portion [E].



<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 26-Jul-04	<b>No:</b> R-C249-009
<b>Subject:</b> Color change for part of a drum		<b>Prepared by:</b> K. Yamamoto, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other (Just information)	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

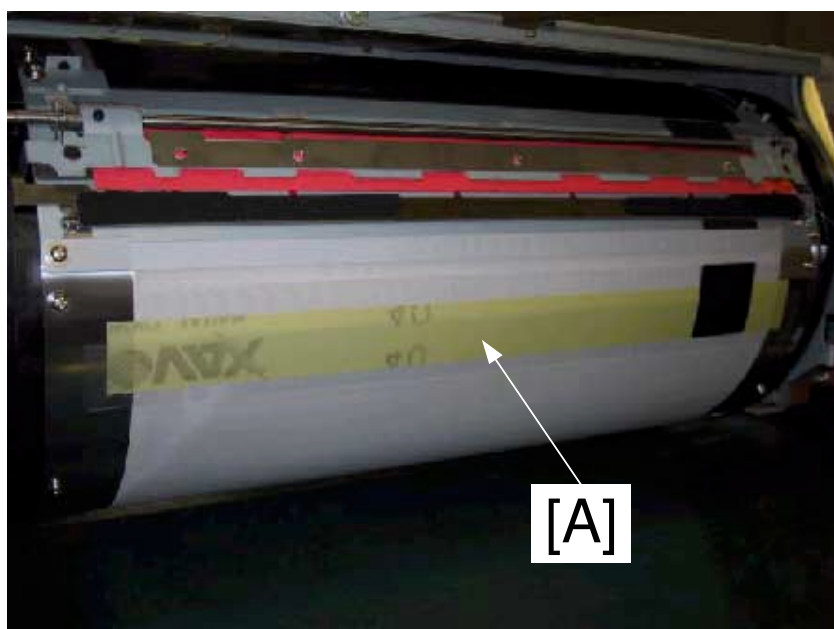
The color of the sandpaper [A] on the cloth screen was changed back to similar to its original color from Aug 2004.

**Reason:** In June 2004 machine production (July color drum production), the color of the sandpaper was changed to yellow because of a vendor change. This was confusing to some technicians and customers, so the sandpaper was changed back to similar to its original color.

**Change applied from:** Aug 2004 (machine and color drum production).

**Important notes:** See the next page.

**NOTE:** This color change has no effect on machine operation.



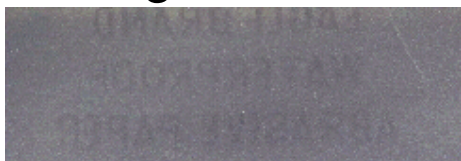
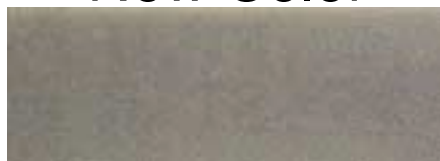


**Model:** PRIPORT HP4/HP4P**Date:** 26-Jul-04**No:** R-C249-009**Important Note for Installation:**

- Do not peel off the yellow sandpaper from the cloth screen.
- Advise customers not to peel off the sandpaper.

If the sandpaper is peeled off by mistake, replace the cloth screen (P/N C2492381).

**Note:** 1. The sandpaper on the cloth screen is not available as a service part.  
2. If the sandpaper is peeled off, image shifting may occur. This is because without the sandpaper, there is not enough pressure between the cloth screen and the master.

**Original Color****New Color****Machine S/N**

The following machines contain the yellow sandpaper:

F4540600001 to F4540600008 (C249-22)

F4540600009 to F4540600021 (C249-27)

**Color Drum S/N**

The following color drums contain the yellow sandpaper:

F4640700001 to F4640700004 (C618-59)

F4740700001 to F4740700002 (C620-59)

Reissued: 13-Sep-04

## RTB Correction

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001b
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b> <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"/> Other (        )			
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

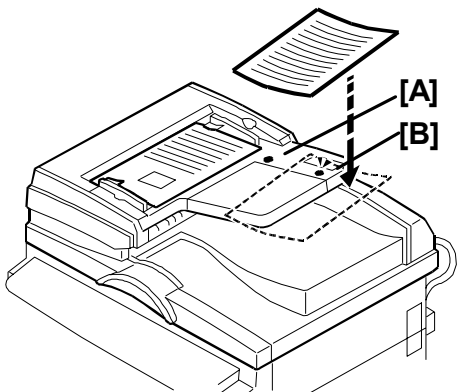
The following is the firmware modification history of Priport product HP4/HP4P.

## FIRMWARE MODIFICATION HISTORY

C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
<b><i>P</i></b>	<b><i>C2495114P.bin</i></b>	<b><i>3.09</i></b>	<b><i>8DC6</i></b>	<b><i>March 2004 production</i></b>
<b><i>Q</i></b>	<b><i>C2495114Q.bin</i></b>	<b><i>3.10</i></b>	<b><i>9F5A</i></b>	<b><i>June 2004 production</i></b>

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<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001b
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Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>1. The opening/closing time of the master clasper has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clasper motor and ensures E-00 (clasper error) does not occur.</li> <li>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>3. Misdetection of master eject jam "B", "E".</li> </ol>	N
<p><b>1. Image shifting due to incorrect ADF paper loading:</b>  <b>Firmware modified so that when the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or if neither of the sensors detects paper, it will not switch over to an "undefined size" if something is placed on top of the right (outermost) length sensor [B].</b></p> <p><b>Example: The machine will not switch to "undefined size" when a sheet is placed on the right length sensor after it detected an A4 LEF sheet.</b></p> 	P

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Model: PRIPORT HP4/HP4P

Date: 30-Sep-03

No: R-C249-001b

Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to stop ink leaks from the trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This pushes the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>. When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) with SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling disabled after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling disabled after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling disabled after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print. This is to prevent ghost images of previous prints when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														

Reissued: 13-Sep-04

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001b

Symptom Corrected / Changes	Suffix
<p><b>4. New SP mode added: SP8-18 (Temporary security off)</b>  <i>This function cancels "Security Mode". This is necessary to let the technician remove the drum.</i>  <i>When this SP8-18 is "ON", the drum rotates to the home position. You can pull the drum unit out of the machine. At this time, the color of the indicator on the operation panel changes to white-on-black, as shown in the example below.</i></p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <p>Ready for Master Making/Printing</p> <p>100%    A4</p> <p>Original Mode:Letter</p> <p>[ ] ± 0.0mm</p> </div> <div style="font-size: 2em; margin: 0 10px;">→</div> <div style="border: 1px solid black; padding: 5px; margin-left: 10px;"> <p>Ready for Master Making/Printing</p> <p>100%    A4</p> <p>Original Mode:Letter</p> <p>[ ] ± 0.0mm</p> </div> </div> <p><b>Note:</b>  <i>Turn SP 8-18 "OFF" after you repair/inspect the machine.</i></p> <p><b>Supplementary explanation:</b>  <i>"Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor pull out the drum unit when you set "Security Mode". You cannot go out from "Security Mode" by turning off the main switch. The job will not start when you set a new original and press the "start" key.</i></p>	P
<p><b>1. The data in the NVRAM is erased.</b>  <i>When you put the old NVRAM in the new main processing unit after you replace the new main processing unit, the data in the NVRAM gets erased (including data for the new SP modes that are only in the new unit)</i></p>	Q

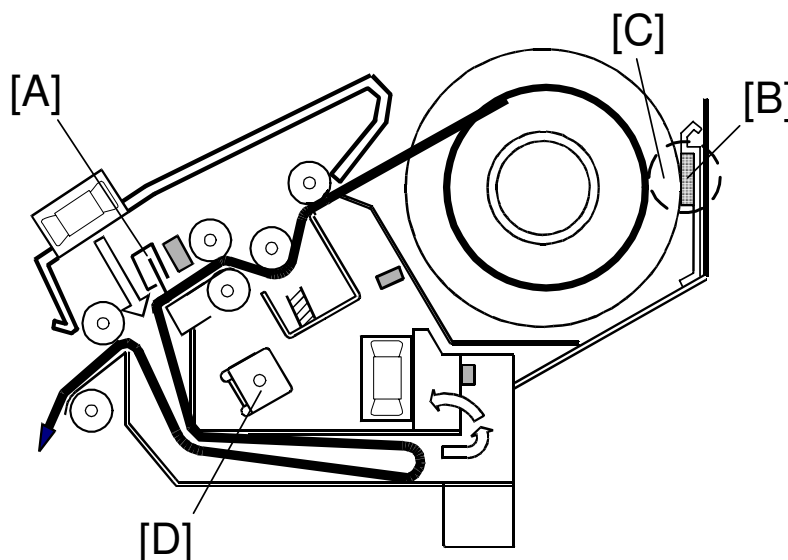
<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 12-Oct-04	<b>No:</b> R-C249-010
<b>Subject:</b> Ink stain on rear side of copy		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

## Symptom

The surface of the press roller and/or rear side of the copy is stained with ink.

## Cause

The cutter [A] cuts the master too short, which occurs when the friction between the brake pad [B] and master flange [C] exceeds the power of the master feed motor [D].



## Solution

### Production line:

The rotational power of the master feed motor has been increased to ensure the proper master feed.

### Action in the field:

If this symptom is reported, please replace the master feed motor with P/N C2495841 (see MB #MC249011).

Reissued: 16-Nov-04

## RTB Correction

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001c
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

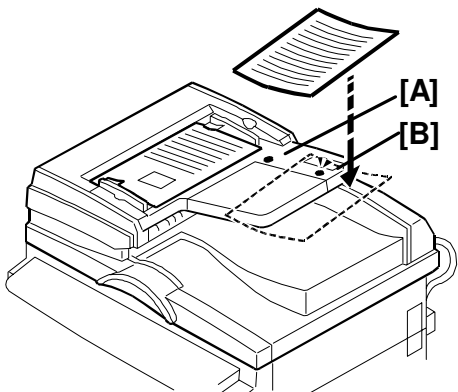
The following is the firmware modification history of Priport product HP4/HP4P.

## FIRMWARE MODIFICATION HISTORY

C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
P	C2495114P.bin	3.09	8DC6	March 2004 production
Q	C2495114Q.bin	3.10	9F5A	June 2004 production
<b><i>R</i></b>	<b><i>C2495114R.bin</i></b>	<b><i>3.12</i></b>	<b><i>D2CF</i></b>	<b><i>October 2004 production</i></b>
<b><i>S</i></b>	<b><i>C2495114S.bin</i></b>	<b><i>3.13</i></b>	<b><i>864C</i></b>	<b><i>November 2004 production</i></b>

Reissued: 16-Nov-04

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001c
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Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>1. The opening/closing time of the master clasper has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clasper motor and ensures E-00 (clasper error) does not occur.</li> <li>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>3. Misdetection of master eject jam "B", "E".</li> </ol>	N
<p>1. Image shifting due to incorrect ADF paper loading: Firmware modified so that once the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or neither of the sensors, it will not switch over to an "undefined size". if something is placed on top of the right (outermost) length sensor [B].</p> <p>Example: Machine will not switch to "undefined size" even when a sheet is placed on the right length sensor after it has detected an A4 LEF sheet.</p> 	P



Reissued: 16-Nov-04

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001c


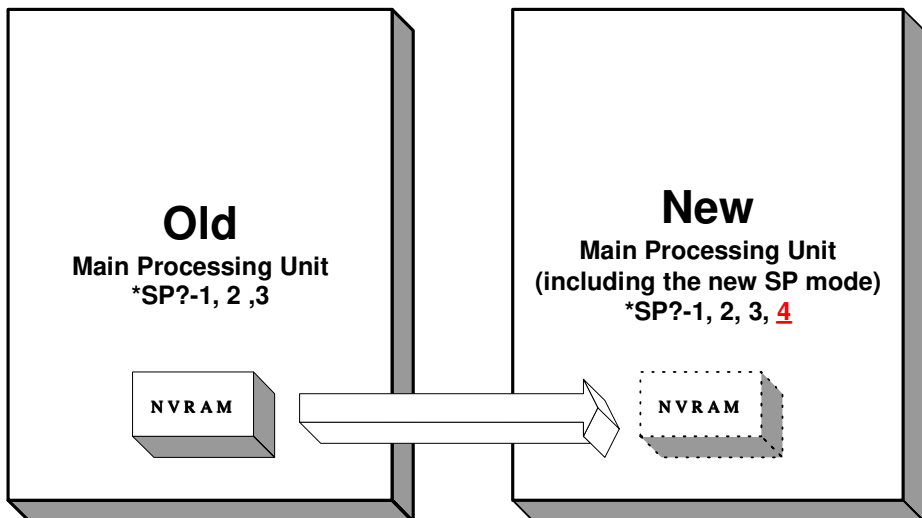
Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to not let the ink leak from trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This presses the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>.</p> <p>When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) by SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print to not let doubled images of previous prints occur when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access the SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														

Reissued: 16-Nov-04

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001c

Symptom Corrected / Changes	Suffix
<p>4. New SP mode added: SP8-18 (Temporary security off)</p> <p>This function cancels "Security Mode" to prevent consumption of wasteful masters when the engineer repairs/inspects the machine.</p> <p>When this SP8-18 is "ON", the drum rotates to the home position. You can pull out the drum unit from the machine. At this time the color of the indicator on the operation panel turns over. Examine the illustration below.</p>  <p>Note: Set SP 8-18 "OFF" after you repair/inspect the machine.</p> <p>Supplementary explanation: "Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor, pull out the drum unit when you set "Security Mode". You cannot clear "Security Mode" by turning off the main switch. The job will not occur when you set a new original and press the "start" key.</p>	P
<p>1. The data in the NVRAM is erased.</p> <p>The data in the NVRAM gets erased when you put the old NVRAM to the new main processing unit after you replace the new main processing unit including the new SP mode.</p> 	Q

Reissued: 16-Nov-04

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001c

Symptom Corrected / Changes	Suffix
<p><b>1. The machine will sometimes open and close the master clamber (see RTB #RC249011).</b></p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li><b>This was added to make sure the clamber stays closed in the correct position. If a service/sales representative closes it incorrectly (=lower teeth on the outside), this can cause a D-jam or noise during the master-making process.</b></li> <li><b>The machine opens/closes the clamp if: 1) the drum is not in the home position and 2) there is no master around the drum. Then, the actual open/close is performed when 1) the power is turned on, 2) the machine recovers from energy Saver mode and 3) when the front door is closed.</b></li> </ul>	<b>R</b>
<p><b>1. The brightness of the operation panel changes when the setting for "LCD Contrast" is changed (User Tools 2-4).</b></p>	<b>S</b>

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 16-Nov-04	<b>No:</b> R-C249-011
<b>Subject:</b> Master Miss Feed		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

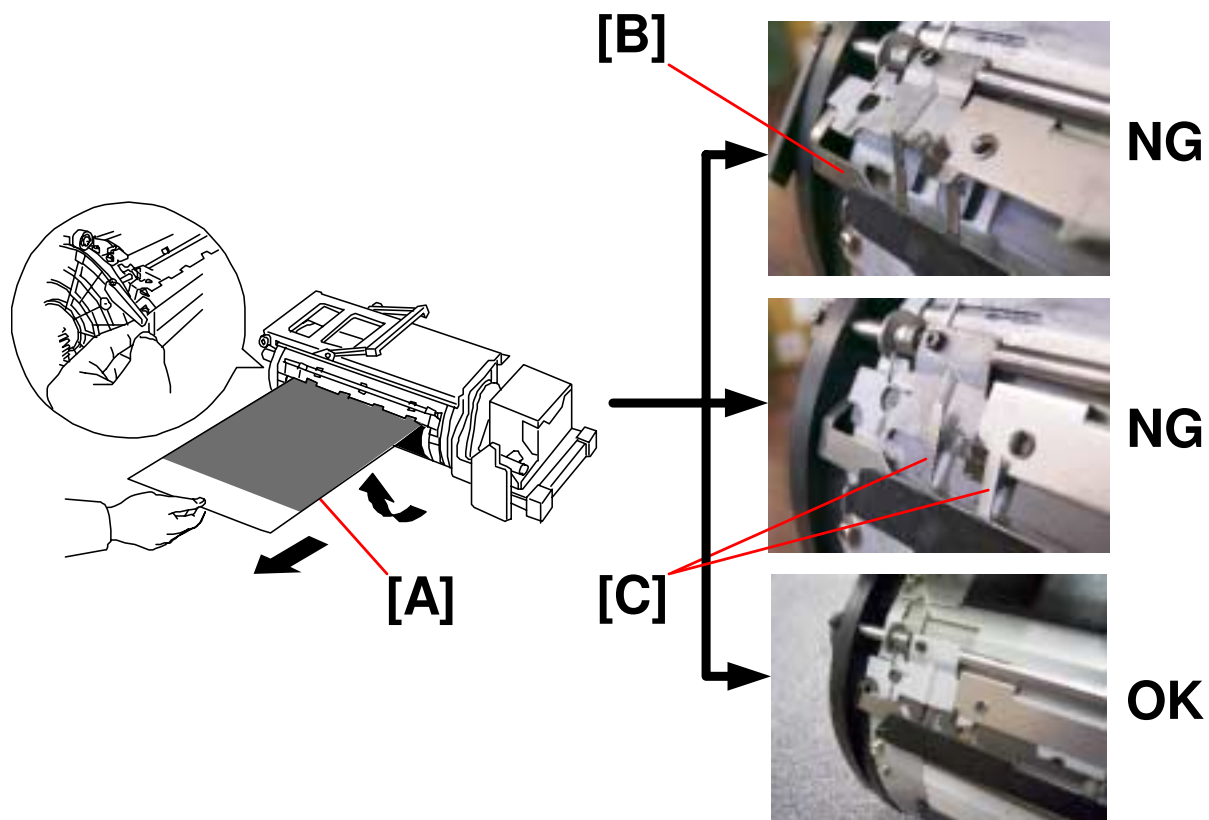
## Symptoms

- Master misfeed (D-jam) occurs in the master-making unit
- Noise during the master-making process

## Causes

1. The customer removes the jammed master [A] after a D-jam, and then closes the master clamber [B], [C] incorrectly.

**Note:** Incorrect = The clamber's lower teeth are on the outside.



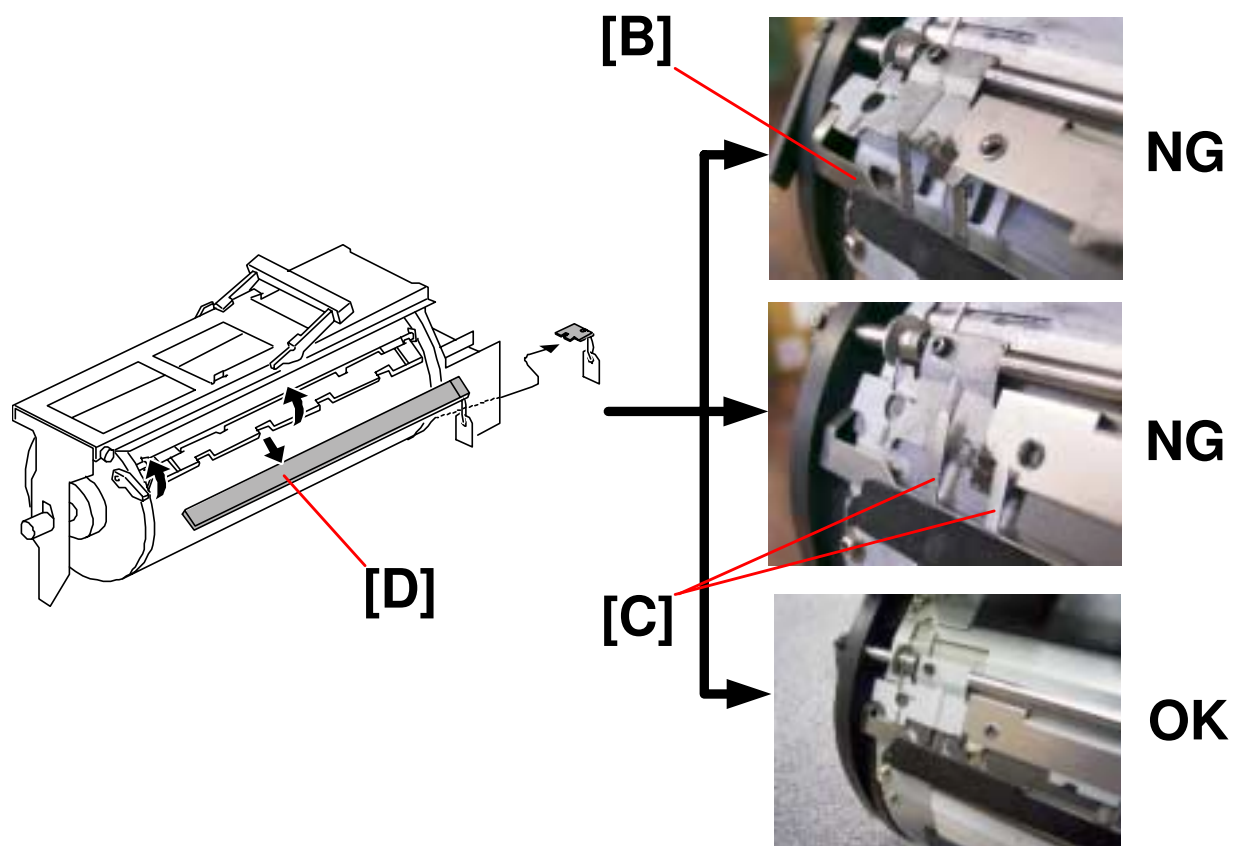
**Model:** PRIPORT HP4/HP4P

**Date:** 16-Nov-04

**No:** R-C249-011

2. The master clasper [B], [C] is set in the wrong direction when the filament tape [D] is removed at machine installation.

**Note:** Incorrect = The clasper's lower teeth are on the outside.



## Solution

Update the main firmware to this version:

- HP4/HP4P: C2495114-R or newer

## Note:

- The new firmware automatically opens/closes the clasper at certain times to make sure it stays closed in the correct position.
- For details, see RTB #RC249001c.

Reissued: 17-Dec-04

## RTB Correction

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001d
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b> <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"/> Other (        )			
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

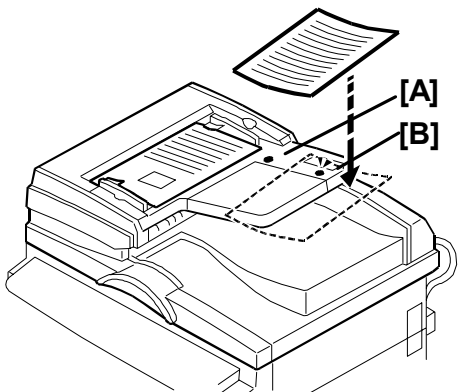
The following is the firmware modification history of Priport product HP4/HP4P.

## FIRMWARE MODIFICATION HIS TORY

C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
P	C2495114P.bin	3.09	8DC6	March 2004 production
Q	C2495114Q.bin	3.10	9F5A	June 2004 production
R	C2495114R.bin	3.12	D2CF	October 2004 production
S	C2495114S.bin	3.13	864C	November 2004 production
<b><i>T</i></b>	<b><i>C2495114T.bin</i></b>	<b><i>3.14</i></b>	<b><i>C8F9</i></b>	<b><i>December 2004 production</i></b>

Reissued: 17-Dec-04

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001d
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Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>1. The opening/closing time of the master clasper has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clasper motor and ensures E-00 (clasper error) does not occur.</li> <li>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>3. Misdetection of master eject jam "B", "E".</li> </ol>	N
<p>1. Image shifting due to incorrect ADF paper loading: Firmware modified so that once the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or neither of the sensors, it will not switch over to an "undefined size". if something is placed on top of the right (outermost) length sensor [B].</p> <p>Example: Machine will not switch to "undefined size" even when a sheet is placed on the right length sensor after it has detected an A4 LEF sheet.</p> 	P

Reissued: 17-Dec-04

Model: PRIPORT HP4/HP4P

Date: 30-Sep-03

No: R-C249-001d

Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to not let the ink leak from trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This presses the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>.</p> <p>When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) by SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print to not let doubled images of previous prints occur when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access the SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														



Reissued: 17-Dec-04

**Model:** PRIORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001d

Symptom Corrected / Changes	Suffix
<p>4. New SP mode added: SP8-18 (Temporary security off)</p> <p>This function cancels "Security Mode" to prevent consumption of wasteful masters when the engineer repairs/inspects the machine.</p> <p>When this SP8-18 is "ON", the drum rotates to the home position. You can pull out the drum unit from the machine. At this time the color of the indicator on the operation panel turns over. Examine the illustration below.</p> <div data-bbox="225 600 1266 730"> </div> <p>Note:</p> <p>Set SP 8-18 "OFF" after you repair/inspect the machine.</p> <p>Supplementary explanation:</p> <p>"Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor, pull out the drum unit when you set "Security Mode". You cannot clear "Security Mode" by turning off the main switch. The job will not occur when you set a new original and press the "start" key.</p>	P
<p>1. The data in the NVRAM is erased.</p> <p>The data in the NVRAM gets erased when you put the old NVRAM to the new main processing unit after you replace the new main processing unit including the new SP mode.</p> <div data-bbox="277 1304 1187 1816"> </div>	Q

Reissued: 17-Dec-04

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001d
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Symptom Corrected / Changes	Suffix
<p>1. The machine will sometimes open and close the master clamber (see RTB #RC249011).</p> <p>Note:</p> <ul style="list-style-type: none"> <li>● This was added to make sure the clamber stays closed in the correct position. If a service/sales representative closes it incorrectly (=lower teeth on the outside), this can cause a D-jam or noise during the master-making process.</li> <li>● The machine opens/closes the clamp if: 1) the drum is not in the home position and 2) there is no master around the drum. Then, the actual open/close is performed when 1) the power is turned on, 2) the machine recovers from E-Saver mode and 3) when the front door is closed.</li> </ul>	R
<p>1. The brightness of the operation panel changes when the setting for "LCD Contrast" is changed (User Tools 2-4).</p>	S
<p><b>A misdetection of E-23 occurs when the machine is turned on.</b>  <b>Note: E-23: "Master Eject Position Sensor (Drum HP) Error".</b></p>	T

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 20-Jan-05	<b>No:</b> R-C249-012
<b>Subject:</b> Paper misdetection		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

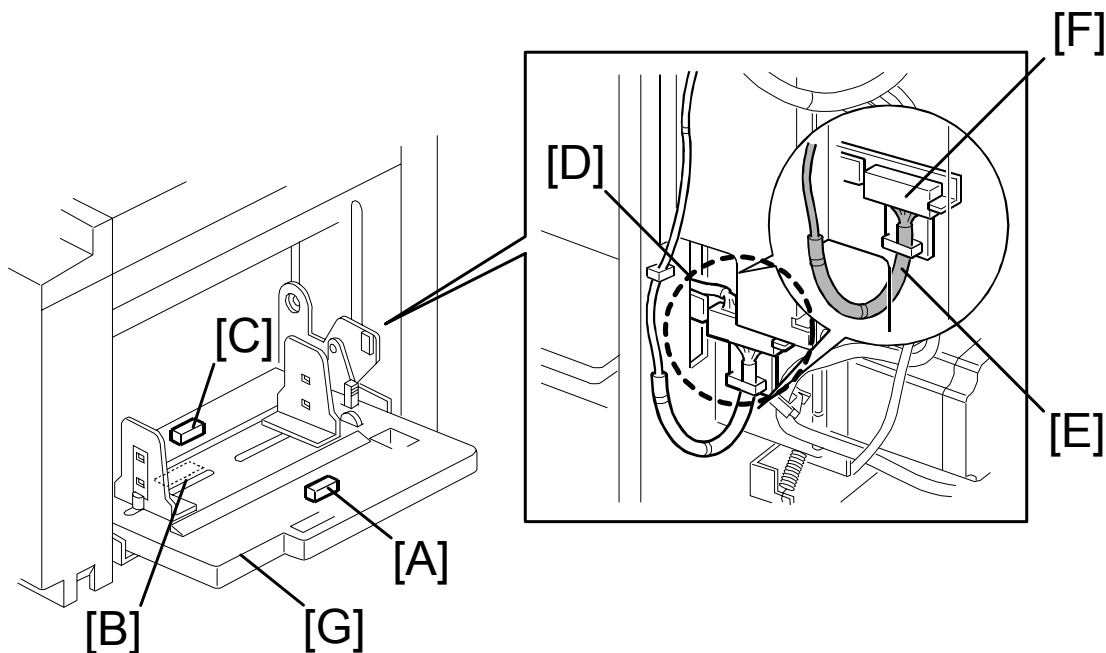
## Symptoms

The following occur during machine operation:

- Paper length sensor [A] misdetection
- Paper width detection board [B] misdetection
- Paper end sensor [C] misdetection

## Causes

- 1) Poor connection [D] between the paper tray relay harness [E] and CN420 [F].
- 2) The paper tray relay harness [E] comes loose when the paper table [G] is lifted up or down.



## Solution

Install the new paper tray relay harness listed in MB #MC249012 (P/N C2565237).

Reissued: 28-Jan-05

## RTB Correction

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001e
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b> <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"/> Other (        )			
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

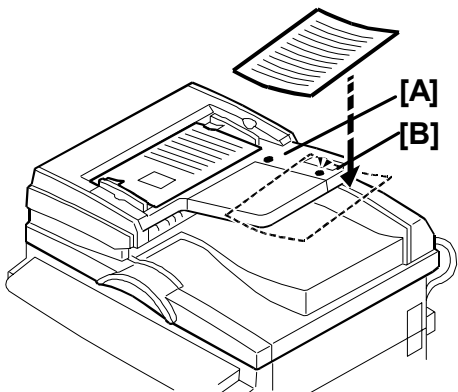
The following is the firmware modification history of Priport product HP4/HP4P.

## FIRMWARE MODIFICATION HISTORY

C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
P	C2495114P.bin	3.09	8DC6	March 2004 production
Q	C2495114Q.bin	3.10	9F5A	June 2004 production
R	C2495114R.bin	3.12	D2CF	October 2004 production
S	C2495114S.bin	3.13	864C	November 2004 production
T	C2495114T.bin	3.14	C8F9	December 2004 production
<b>V</b>	<b>C2495114V.bin</b>	<b>3.17</b>	<b>C8AD</b>	<b>February 2005 production</b>

Reissued: 28-Jan-05

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001e
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Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>1. The opening/closing time of the master clasper has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clasper motor and ensures E-00 (clasper error) does not occur.</li> <li>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>3. Misdetection of master eject jam "B", "E".</li> </ol>	N
<p>1. Image shifting due to incorrect ADF paper loading: Firmware modified so that once the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or neither of the sensors, it will not switch over to an "undefined size". if something is placed on top of the right (outermost) length sensor [B].</p> <p>Example: Machine will not switch to "undefined size" even when a sheet is placed on the right length sensor after it has detected an A4 LEF sheet.</p> 	P

Reissued: 28-Jan-05

Model: PRIPORT HP4/HP4P

Date: 30-Sep-03

No: R-C249-001e

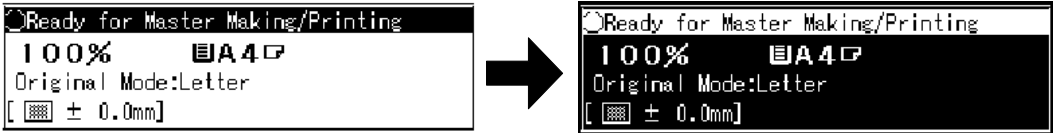
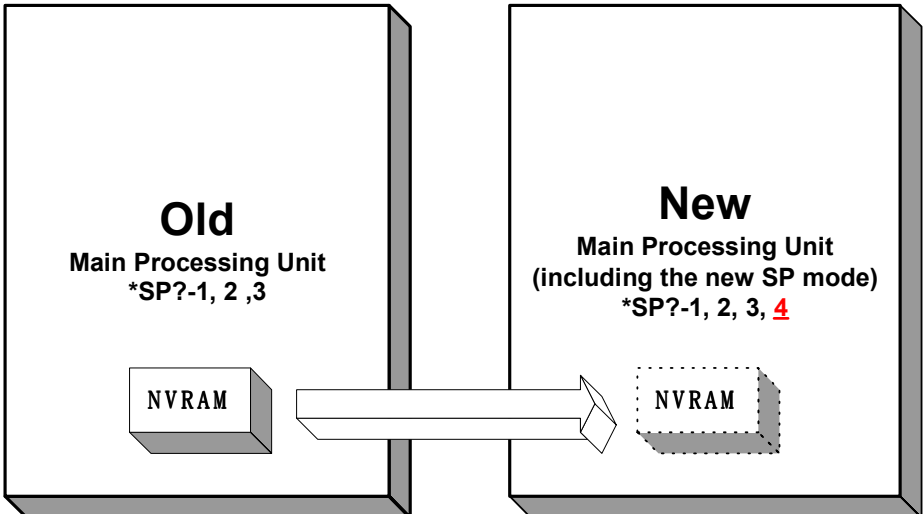
Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to not let the ink leak from trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This presses the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>.</p> <p>When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) by SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print to not let doubled images of previous prints occur when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access the SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														

Reissued: 28-Jan-05

**Model:** PRIORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001e

Symptom Corrected / Changes	Suffix
<p>4. New SP mode added: SP8-18 (Temporary security off)</p> <p>This function cancels "Security Mode" to prevent consumption of wasteful masters when the engineer repairs/inspects the machine.</p> <p>When this SP8-18 is "ON", the drum rotates to the home position. You can pull out the drum unit from the machine. At this time the color of the indicator on the operation panel turns over. Examine the illustration below.</p> <div style="display: flex; align-items: center; justify-content: center;">  </div> <p>Note: Set SP 8-18 "OFF" after you repair/inspect the machine.</p> <p>Supplementary explanation: "Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor, pull out the drum unit when you set "Security Mode". You cannot clear "Security Mode" by turning off the main switch. The job will not occur when you set a new original and press the "start" key.</p>	P
<p>1. The data in the NVRAM is erased.</p> <p>The data in the NVRAM gets erased when you put the old NVRAM to the new main processing unit after you replace the new main processing unit including the new SP mode.</p> <div style="display: flex; align-items: center; justify-content: center;">  </div>	Q

Reissued: 28-Jan-05

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001e
--------------------------------	------------------------	------------------------

Symptom Corrected / Changes	Suffix
<p>1. The machine will sometimes open and close the master clamber (see RTB #RC249011).</p> <p>Note:</p> <ul style="list-style-type: none"> <li>This was added to make sure the clamber stays closed in the correct position. If a service/sales representative closes it incorrectly (=lower teeth on the outside), this can cause a D-jam or noise during the master-making process.</li> <li>The machine opens/closes the clamp if: 1) the drum is not in the home position and 2) there is no master around the drum. Then, the actual open/close is performed when 1) the power is turned on, 2) the machine recovers from E-Saver mode and 3) when the front door is closed.</li> </ul>	R
<p>1. The brightness of the operation panel changes when the setting for "LCD Contrast" is changed (User Tools 2-4).</p>	S
<p>A misdetection of E-23 occurs when the machine is turned on.</p> <p>Note: E-23: "Master Eject Position Sensor (Drum HP) Error".</p>	T
<p><b><i>The status change time for the thermal head HP sensor was changed from 4.0sec to 6.0sec to ensure E-47 does not occur.</i></b></p> <p><b><i>Note: E-47: "Thermal head driving error".</i></b></p>	V



<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 3-Feb-05	<b>No:</b> R-C249-013
<b>Subject:</b> E-21, E-22, E-23, E-24		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

## Symptom

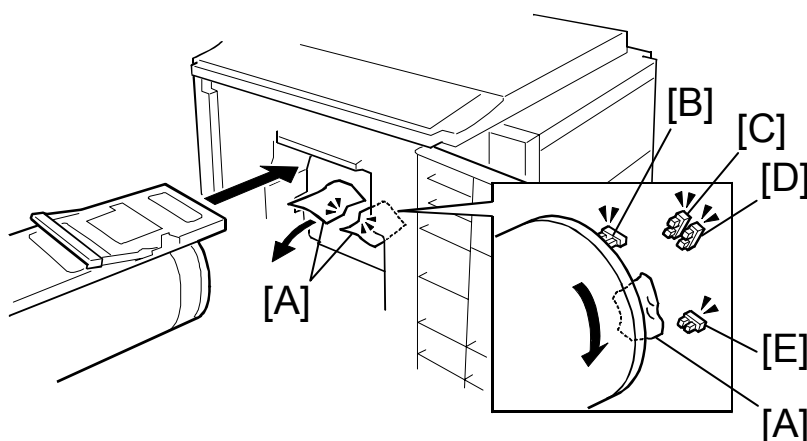
The following occur during machine operation:

- E-21: Paper Exit Timing Sensor error
- E-22: 2nd Feed Timing Sensor error
- E-23: Master Eject Position Sensor (Drum HP) error
- E-24: Feed Start Timing Sensor error

## Cause

Jammed paper [A] contacts one of the sensors below during a print job, and the sensor comes loose from its bracket:

2nd feed timing sensor [B], paper exit timing sensor [C], master eject position (Drum HP) sensor [D], feed start timing sensor [E]



## Solution

Install the new sensor brackets and drum position plate listed in MB #MC249014.  
(P/N: C2565613, C2565609, C2565611 and C2562375).

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 3-Feb-05	<b>No:</b> R-C249-014
<b>Subject:</b> Service manual revision		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b> <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"/> Other (        )			
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

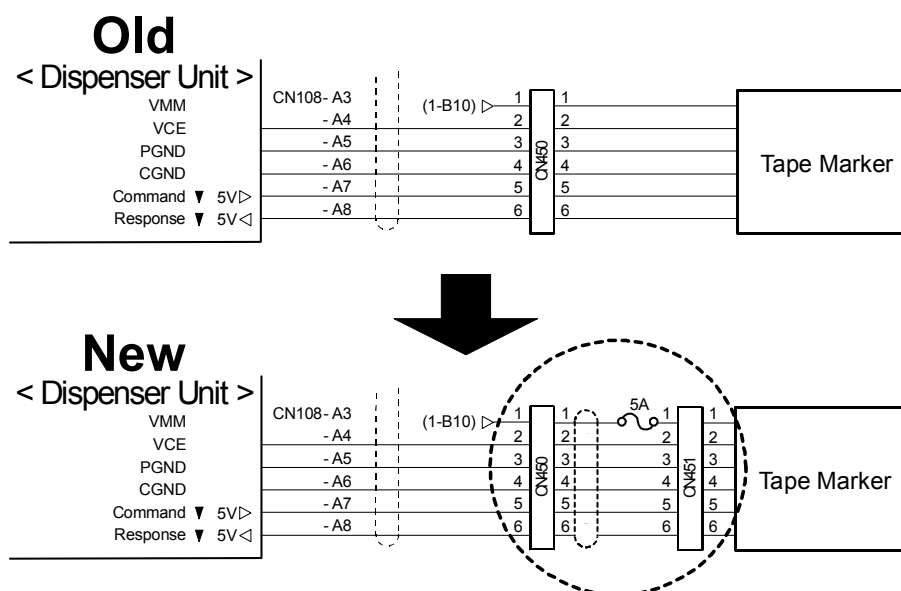
Please apply the following changes to your Service Manuals.

## 1. Description

Page	Item	Incorrect Description	Correct Description
4-1	4.1 ERROR CODES E-47	<u>Thermal head driving error</u> The thermal head HP sensor does not change status within 4.0 seconds after the thermal head driving motor on signal is generated.	<u>Thermal head driving error</u> The thermal head HP sensor does not change status within <b>6.0 seconds</b> after the thermal head driving motor on signal is generated.

**Note:** This change was applied from main firmware v3.17 (see RTB #RC249001e).

## 2. Illustration - Section A Option (pg. 7-13)



**Note:** See MB #MC249009.

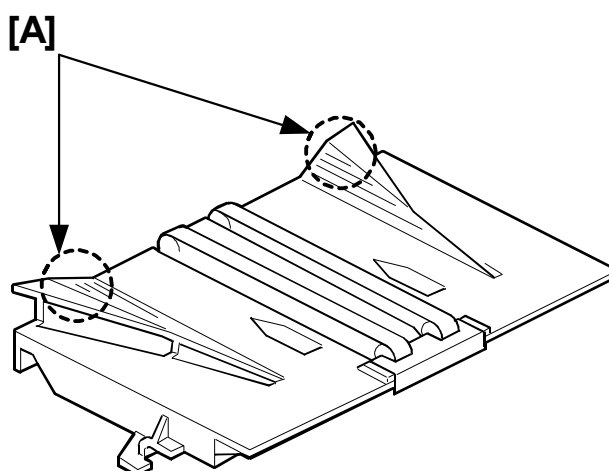
<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 12-Aug-05	<b>No:</b> R-C249-015
<b>Subject:</b> Paper delivery jam		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

## Symptom

A C-jam (paper delivery jam) sometimes occurs when continuously printing many sheets.

## Cause

The paper delivery unit wing tips [A] are scratched by the paper, increasing the static electricity buildup in the area. The static buildup eventually overcomes the force of paper delivery, triggering the jam.



**Note:** This symptom occurs more easily with:

- Paper sizes: B5 LEF, B4
- Paper with high chargeability
- Installation environments that are dry

**Model:** PRIPORT HP4/HP4P

**Date:** 12-Aug-05

**No:** R-C249-015

## Solution

### Production line

The shapes of the air knife fan, fan bracket, delivery belt and air knife duct have been changed to ensure the proper paper delivery.

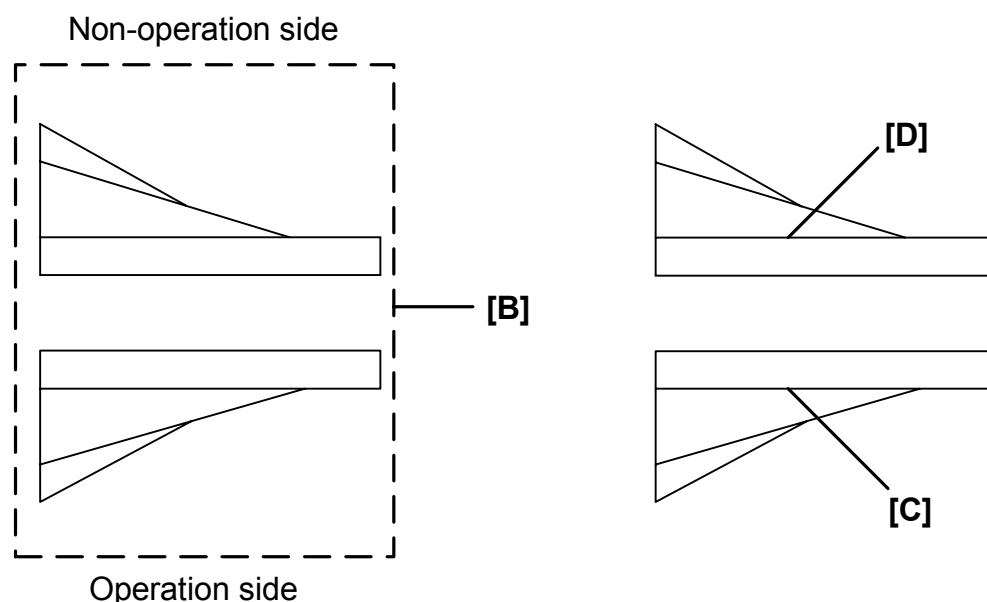
**Note:** This modification applies only to the models listed in **MB #MC249016**.

### Machines in the Field

For models listed in **MB #MC249016** that were produced before the cut-in serial number:

- 1) Replace the parts with the modified ones, **OR**
- 2) Install the metal wing set shown below.

**Note:** See the “Important Notes” and “Installation Procedure” on the next page.



**NOTE:** When installing for the first time, please be sure to attach the entire set [B] (P/N: **C2389002**), which includes both [C] (P/N: C2389003) and [D] (P/N: C2389004) above.

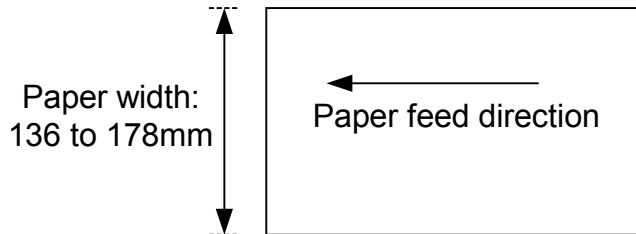
Old #	New #	Description	Qty	Int	Page	Index
-	<b>C2389002</b>	<b>Metal Wing Set</b>	<b>1</b>	-	-	-
-	C2389003	Front Metal Wing	1	-	-	-
-	C2389004	Rear Metal Wing	1	-	-	-

**Model:** PRIPORT HP4/HP4P**Date:** 12-Aug-05**No:** R-C249-015

## Important Notes Regarding the Use of the Metal Wings

### 1. Non-usable Paper Sizes

**Do not** use paper that has a leading-edge width of **136-178mm**.

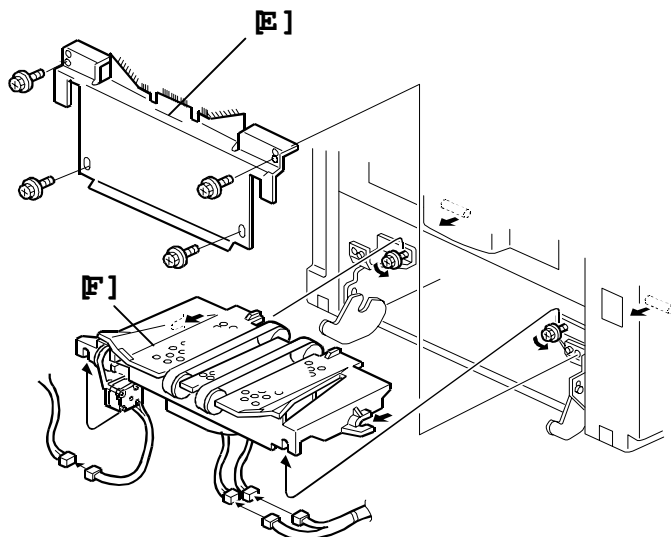


### 2. Non-usable Paper Weights

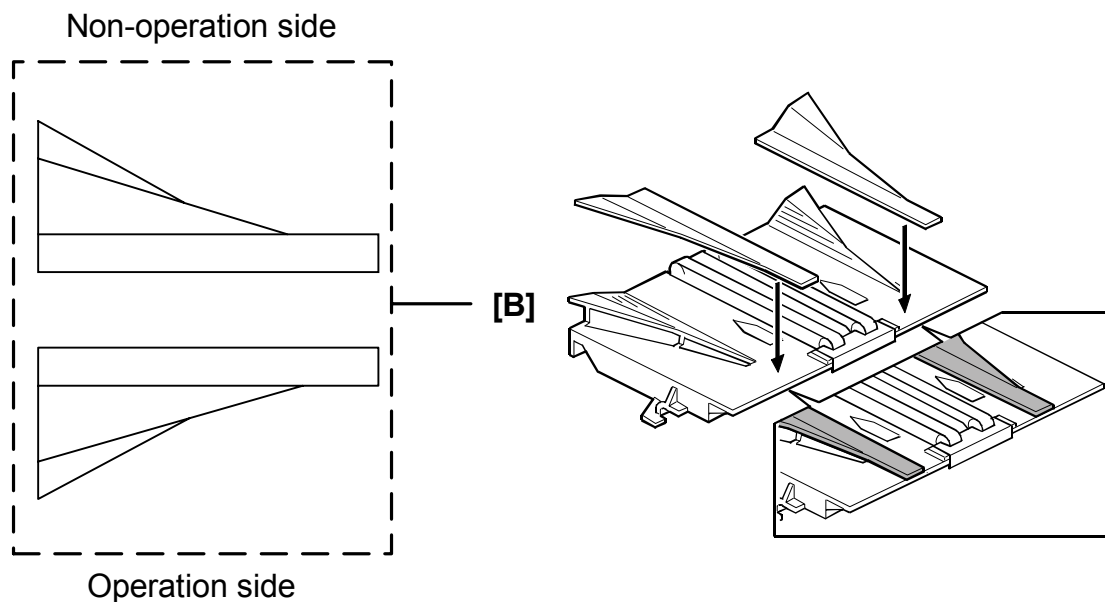
Paper weight requirements are the same as mainframe specifications, i.e. **do not use paper that weighs 47.1g/m<sup>2</sup> or less**, because this can cause a jam in the paper delivery unit.

## Installing the C2389002 Metal Wing Set

1. Remove the paper delivery cover [E] (⚙ x 4).
2. Remove the paper delivery unit [F] (⚙ x 3, ⚙ x 2).



3. Clean the paper delivery unit using isopropyl alcohol.
4. Peel off the double-sided tape and blue vinyl covering on the metal wings.
5. Attach the wings [B] as shown below.



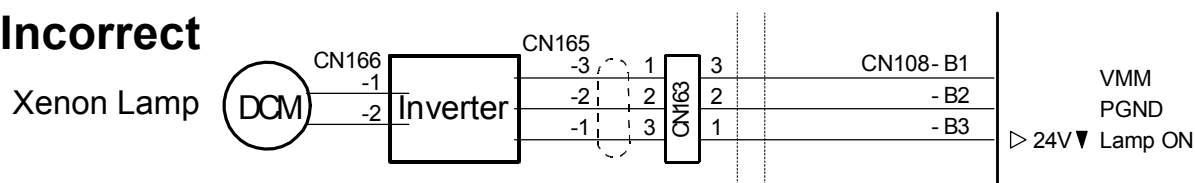
<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 5-Sep-05	<b>No:</b> R-C249-016
<b>Subject:</b> Service manual revision		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Part information <input type="checkbox"/> 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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

The Service Manual was corrected as follows.

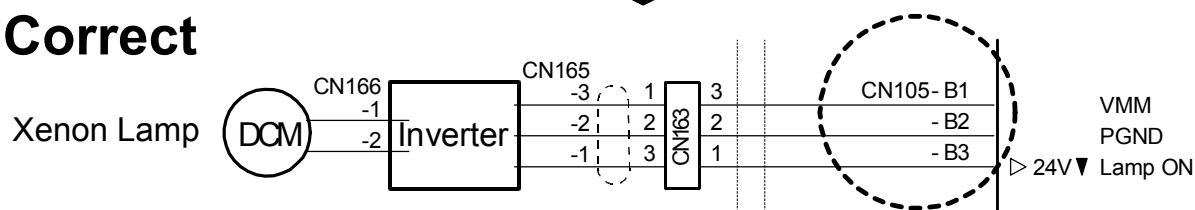
## Illustration correction:

### Connector Number - Section D (pg. 7-6)

#### Incorrect



#### Correct



<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 20-Jan-06	<b>No:</b> R-C249-017
<b>Subject:</b> Ink leakage from Trailing Edge of Metal Screen		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (       )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

## SYMPTOM

Ink leaks from the trailing edge of the metal screen.

## CAUSE

Sometimes, the ink pressure causes part of the Mylar seal on the metal screen to peel off.

## SOLUTION

### Production line

The metal screen was modified (see the details below).

### Action in the Field

Replace the metal screen or Mylar seal when the symptom is reported.

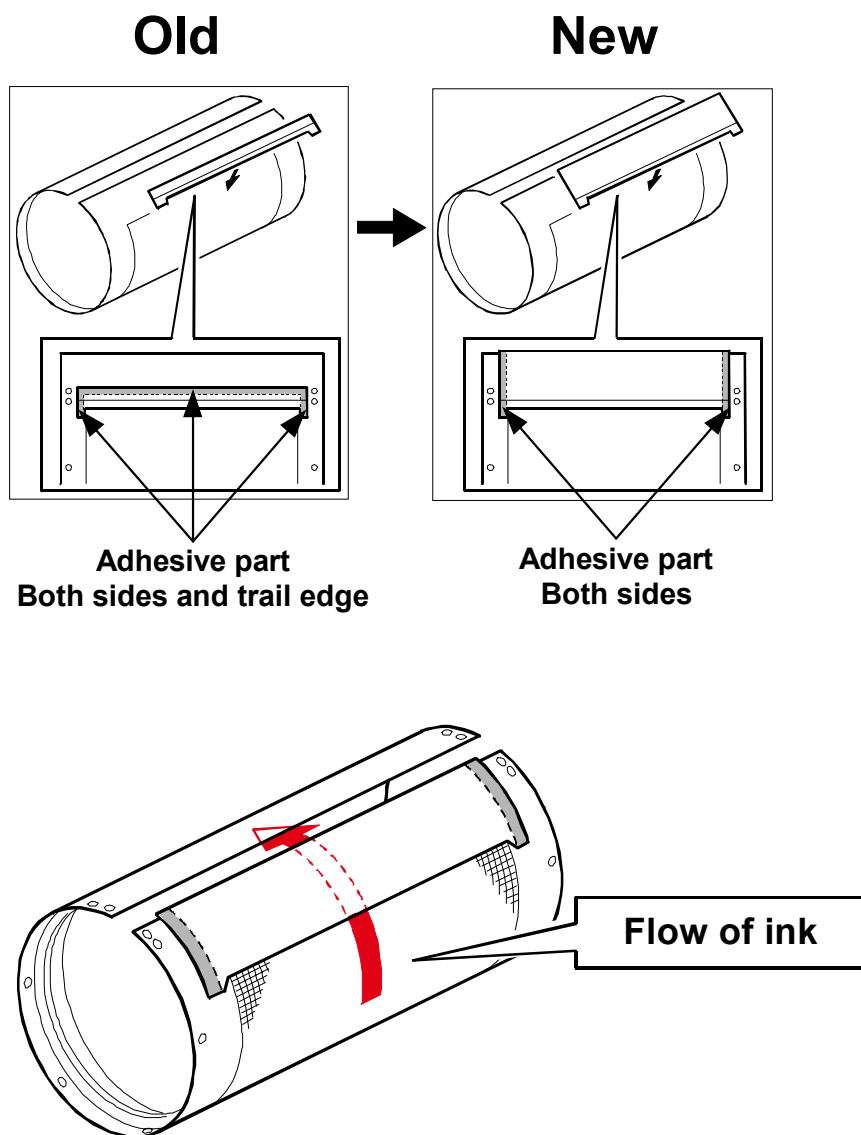
**See the Important Note below.**

**Note:** For the part number changes, see MB #MC249-020.



## ***Metal Screen Modification***

- Adhesive is applied only to the side edges of the Mylar seal for the metal screen (there is no adhesive at the trailing edge).
- As a result, the extra ink flows back into the drum from the leading edge of the new metal screen.



**Model:** PRIPORT HP4/HP4P

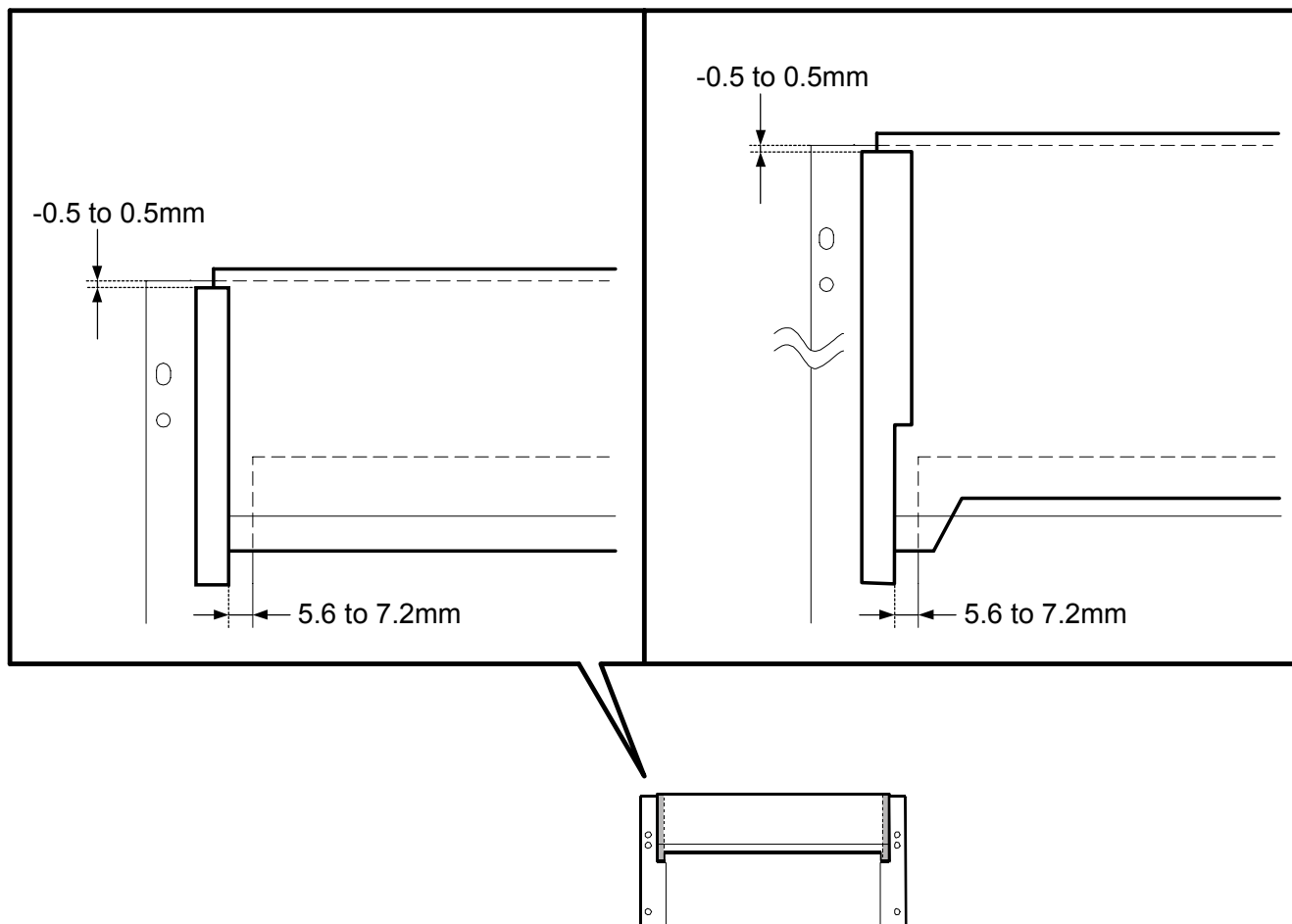
**Date:** 20-Jan-06

**No:** R-C249-017

## Important Note for when Replacing the Mylar Seal

If you replace only the Mylar seal, make sure to clean the attachment area with isopropyl before you attach the new seal.

### ◆ P/N #C2492586/#C6202587



Reissued: 09-Aug-06

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 15-May-06	<b>No:</b> R-C249-018a
<b>Subject:</b> Firmware modification history		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b>			
HP4: Ricoh JP 4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: Ricoh DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

This is to inform you of the firmware history for the **HP4-R2**.

**NOTE:** The China model has not been produced yet so the firmware number is since **C2645135A**.

## FIRMWARE MODIFICATION HISTORY

C2645135	File Name	Version	C. SUM	Production
C	C2645135C	1.07	AF5D	July 2006 production
B	C2645135B	1.04	3AC1	June 2006 production
A	C2645135A.bin	1.01	F4F4	April 2006 production
No-Suffix	C2645135.bin	1.00	E88F	1st Mass Production

Symptom Corrected	Suffix
<b><i>Ink streaks occur on the edge of the printed paper.</i></b> <b><i>Note: This only happens when the paper is printed out from the VC-20 when connected to the HP4-R2. Also, this does not occur with the P, CD and CDP versions. For details, see RTB #RC249022.</i></b>	C
The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).	B
Word correction (Chinese only)	A
-	No-Suffix

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 18-May-06	<b>No:</b> R-C249-019
<b>Subject:</b> Additional SP mode (SP2-95)		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

This RTB applies to the HP4 and the HP4P.

## New SP Mode Added: SP2-95

### ● Overview

The following SP mode was newly added. With this SP mode, the paper tray standby position can be changed to a higher position. As a result, the First Print time for the next job will be about 3 seconds faster.

### SP2-95 (Paper table standby pos.)

Sets whether the paper feed table will return to the lower standby position (standard) or the upper standby position.

**ON:** The paper feed table returns to the upper standby position after printing or master-making.

**OFF (default):** The paper feed table returns to the lower (standard) standby position after printing or master-making.

**Note:** In the following cases, the paper feed table returns to the lower (standard) standby position even if SP2-95 is ON. This is to make sure that the master making unit does not touch the paper feed table.

- When the Master End condition occurs
- When a B-jam (Master Eject Jam) or a D-jam (Master Feed Jam) occurs
- When the paper height sensor is activated at main power ON

Reissued: 18-May-06

**RTB Correction**

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001f
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> A. Yoshida, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b>			
HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

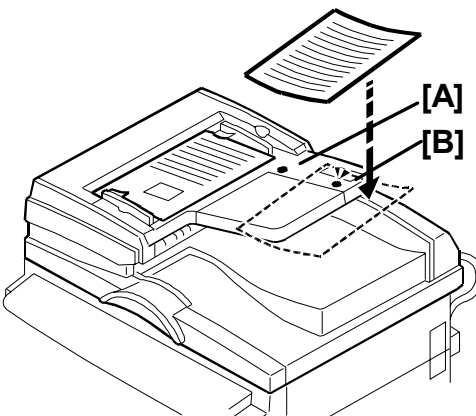
The following is the firmware modification history of Priport product HP4/HP4P.

**FIRMWARE MODIFICATION HISTORY**

<b>C2495114</b>	<b>File Name</b>	<b>Version</b>	<b>C.SUM</b>	<b>Production</b>
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
P	C2495114P.bin	3.09	8DC6	March 2004 production
Q	C2495114Q.bin	3.10	9F5A	June 2004 production
R	C2495114R.bin	3.12	D2CF	October 2004 production
S	C2495114S.bin	3.13	864C	November 2004 production
T	C2495114T.bin	3.14	C8F9	December 2004 production
V	C2495114V.bin	3.17	C8AD	February 2005 production
<b><i>W</i></b>	<b><i>C2495114W.bin</i></b>	<b><i>3.18</i></b>	<b><i>6BDF</i></b>	<b><i>February 2006 production</i></b>

Reissued: 18-May-06

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001f
--------------------------------	------------------------	------------------------

Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>1. The opening/closing time of the master clamber has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clamber motor and ensures E-00 (clamber error) does not occur.</li> <li>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>3. Misdetection of master eject jam "B", "E".</li> </ol>	N
<ol style="list-style-type: none"> <li>1. Image shifting due to incorrect ADF paper loading: Firmware modified so that once the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or neither of the sensors, it will not switch over to an "undefined size". if something is placed on top of the right (outermost) length sensor [B].</li> </ol> <p>Example: Machine will not switch to "undefined size" even when a sheet is placed on the right length sensor after it has detected an A4 LEF sheet.</p> 	P

Reissued: 18-May-06

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001f

Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to not let the ink leak from trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This presses the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>.</p> <p>When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) by SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print to not let doubled images of previous prints occur when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access the SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														

Reissued: 18-May-06

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001f
--------------------------------	------------------------	------------------------

Symptom Corrected / Changes	Suffix
<p>4. New SP mode added: SP8-18 (Temporary security off)  This function cancels "Security Mode" to prevent consumption of wasteful masters when the engineer repairs/inspects the machine.  When this SP8-18 is "ON", the drum rotates to the home position. You can pull out the drum unit from the machine. At this time the color of the indicator on the operation panel turns over. Examine the illustration below.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> <p>Ready for Master Making/Printing</p> <p>100% A4</p> <p>Original Mode:Letter</p> <p>[ ± 0.0mm]</p> </div> <div style="font-size: 2em; margin-right: 20px;">➔</div> <div style="border: 1px solid black; padding: 5px;"> <p>Ready for Master Making/Printing</p> <p>100% A4</p> <p>Original Mode:Letter</p> <p>[ ± 0.0mm]</p> </div> </div> <p>Note:  Set SP 8-18 "OFF" after you repair/inspect the machine.</p> <p>Supplementary explanation:  "Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor, pull out the drum unit when you set "Security Mode". You cannot clear "Security Mode" by turning off the main switch. The job will not occur when you set a new original and press the "start" key.</p>	P
<p>1. The data in the NVRAM is erased.  The data in the NVRAM gets erased when you put the old NVRAM to the new main processing unit after you replace the new main processing unit including the new SP mode.</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 10px; margin-right: 20px; text-align: center;"> <p><b>Old</b></p> <p>Main Processing Unit</p> <p>*SP?-1, 2, 3</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">NVRAM</div> </div> <div style="font-size: 2em; margin-right: 20px;">➔</div> <div style="border: 1px solid black; padding: 10px; margin-left: 20px; text-align: center;"> <p><b>New</b></p> <p>Main Processing Unit (including the new SP mode)</p> <p>*SP?-1, 2, 3, <u>4</u></p> <div style="border: 1px dashed black; padding: 5px; margin-top: 10px;">NVRAM</div> </div> </div>	Q



Reissued: 18-May-06

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001f
--------------------------------	------------------------	------------------------

Symptom Corrected / Changes	Suffix
<p>1. The machine will sometimes open and close the master clasper (see RTB #RC249011).</p> <p>Note:</p> <ul style="list-style-type: none"> <li>This was added to make sure the clasper stays closed in the correct position. If a service/sales representative closes it incorrectly (=lower teeth on the outside), this can cause a D-jam or noise during the master-making process.</li> <li>The machine opens/closes the clamp if: 1) the drum is not in the home position and 2) there is no master around the drum. Then, the actual open/close is performed when 1) the power is turned on, 2) the machine recovers from E-Saver mode and 3) when the front door is closed.</li> </ul>	R
<p>1. The brightness of the operation panel changes when the setting for "LCD Contrast" is changed (User Tools 2-4).</p>	S
<p>A misdetection of E-23 occurs when the machine is turned on.</p> <p>Note: E-23: "Master Eject Position Sensor (Drum HP) Error".</p>	T
<p>The status change time for the thermal head HP sensor was changed from 4.0sec to 6.0sec to ensure E-47 does not occur.</p> <p>Note: E-47: "Thermal head driving error".</p>	V
<p><b>1. A misdetection of E-43 occurs after printing.</b></p> <p><b>Note: E-43: "Printing Pressure Error"</b></p> <p><b>2. A new SP mode was added: SP2-95 (paper table standby pos.)</b></p> <p><b>Note: See RTB#RC249019 for details.</b></p>	W

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 26-Jun-06	<b>No:</b> R-C249-020
<b>Subject:</b> Service Manual Revision		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input checked="" type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

**Note:** The RTB is for the **HP4-R2 only**.

The Service Manual for the HP4-R2 was changed as follows.

**Add** the printer unit VC-20 to the Installation Procedures (sec 1.2.6).

## 1.2.6 PRINTER UNIT VC-20 (OPTION)

The interface board type 45 (option) is necessary to install the Printer unit VC-20 (option).

### ***Interface board type 45 (option)***

#### ***Accessory Check***

Check the quantity and condition of the accessories in the box against the following list:

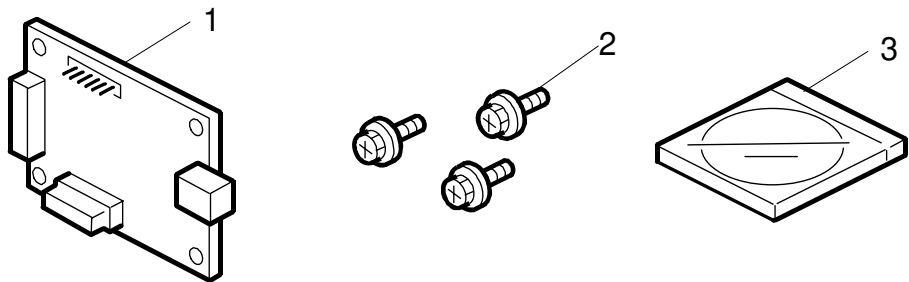
Description	Q'ty
1. Interface Board .....	1
2. Interface Cable .....	1
3. Printer Controller Unit Case .....	1
4. Printer Controller Unit Cover .....	1
5. Bracket .....	3
6. Core .....	1
7. Cable Clamp .....	2
8. Screw M3 x 6 .....	20

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2	<b>Date:</b> 26-Jun-06	<b>No:</b> R-C249-020
---------------------------------------	------------------------	-----------------------

**Printer Unit VC-20 (Option)**

*Accessory Check*

Make sure that you have all the accessories listed below.



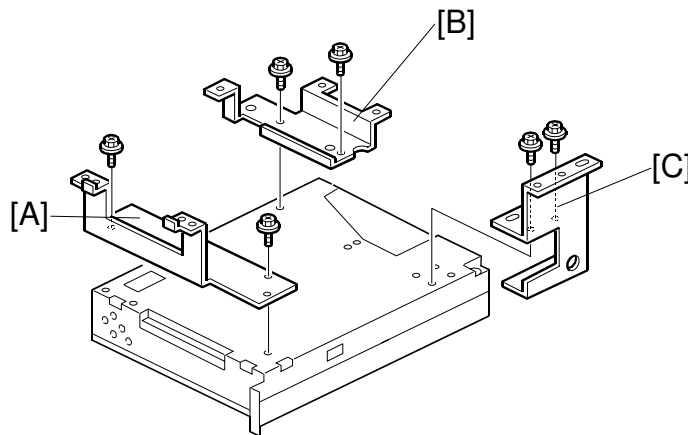
C264I910.WMF

Description	Quantity
1. VC-20 Interface Board.....	1
2. Screws.....	3
3. Installation CD .....	1
4. Quick Install Guide .....	1
5. Safety Information .....	1

## Installation Procedure

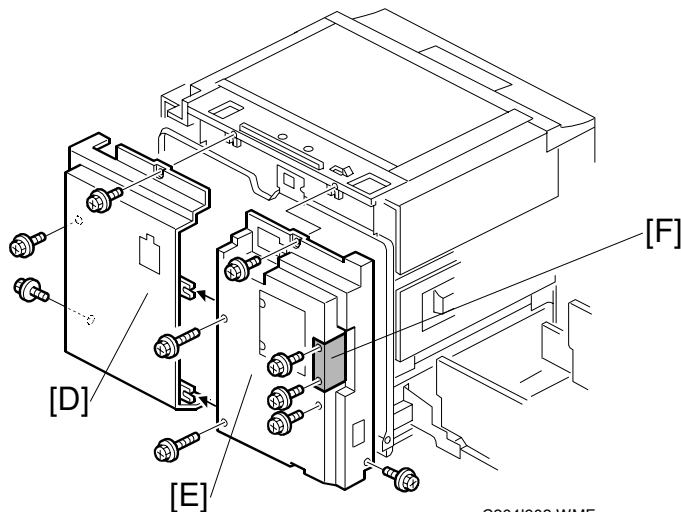
### ⚠ CAUTION

To avoid serious injury, do not connect the power plug to the machine until you are instructed to do so.



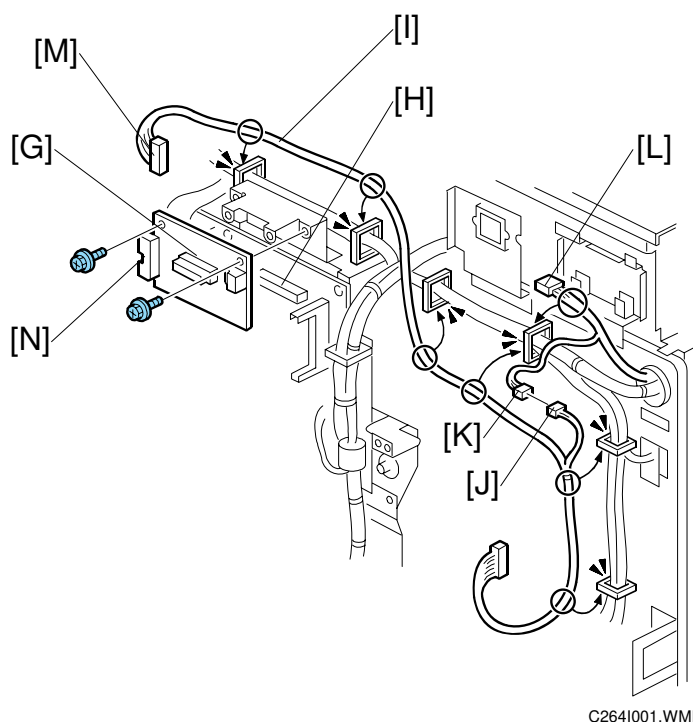
C264I901.WMF


1. Attach the three brackets [A], [B], [C] (⌀ x 6).

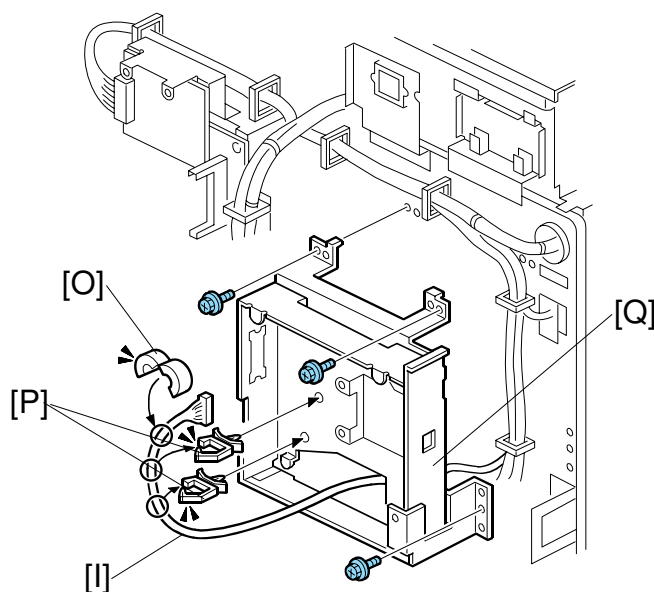


C264I902.WMF

2. Remove the rear covers [D], [E] and I/F connector cover [F] (⌀ x 10)

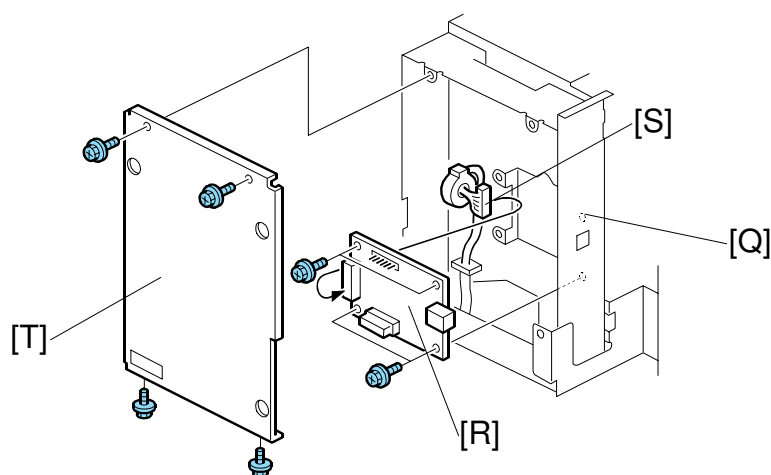


3. Connect CN101 [G] on the interface board to CN117 [H] on the MPU (  x 2).
4. Clamp the interface cable [I] at the positions shown.
5. Connect the short end of the interface cable [J] (4-pin connector) to the main harness [K] (narrow 4-pin connector).
6. Clamp the main harness [L] (wide 4-pin connector) at the position shown.  
**Note:** This is because the wide 4-pin connector of the main harness is not used.
7. Connect the long end of the interface cable [M] (black connector) to CN102 [N] on the interface board.



C264I002.WMF

8. Attach the core [O] to the interface cable [I].
9. Attach the cable clamp [P] to the printer controller unit case [Q] (◀x 2).
10. Attach the printer controller unit case [Q] to the machine (⚙ x 4).
11. Clamp the interface cable [I].



C264I003.WMF

12. Attach the VC-20 Interface Board [R] (included with the VC-20) to the printer controller unit case [Q] (⚙ x 4).
13. Connect the interface cable [S] (white connector) to the VC-20 Interface Board [R]
14. Attach the printer controller unit cover [T] (⚙ x 4).

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 29-Jun-06	<b>No:</b> R-C249-021
<b>Subject:</b> New Model HP4-R2 P/CD/CD P information (China only)		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (New model information)		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

## IMPORTANT INFORMATION ON THE CHINA-RELEASED HP4-R2 MODELS

- This RTB explains the following:
  - 1) All service-related information unique to the following HP4-R2 models, which will be released in China only.
    - HP4-R2 P (A3 only)
    - HP4-R2 A3 CD
    - HP4-R2 B4 CD
    - HP4-R2 A3 CD P
    - HP4-R2 B4 CD P
  - 2) The differences between:
    - **A3 models and B4 models** (from pg. 2)
    - **Standard versions and P versions** (from pg. 9)
    - **Standard versions and CD versions** (from pg. 13)
- **Note:**
  - The HP4-R2 P only features an A3 model. (There is no B4 model.)
  - The CD P version is a combination of the CD version and P version.

**Model:** PRIORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver

**Date:** 29-Jun-06

**No:** R-C249- 021

## OVERALL INFORMATION

### DIFFERENT SECTIONS BETWEEN THE A3 MODEL AND B4 MODEL

Section	Item	Remark
1	Installation	<b>Some items added.</b>
2	Preventive maintenance	No differences
3	Replacement and adjustment	No differences
4	Troubleshooting	<b>Some items added</b>
5	Service tables	<b>Some items added</b>
6	Detailed section descriptions	<b>Some items added</b>
7.	Point to Point diagram	<b>Some items added</b>
Spec	Specifications	<b>Some items added</b>

## 1. INSTALLATION

### 1.1 INSTALLATION PROCEDURE

#### 1.2.5 OPTIONAL DRUMS

- B4 models support only one type of optional drum unit: the B4 size: Color drum. The B4 model does not support the A4 black drum.



**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD  
ver

**Date:** 29-Jun-06

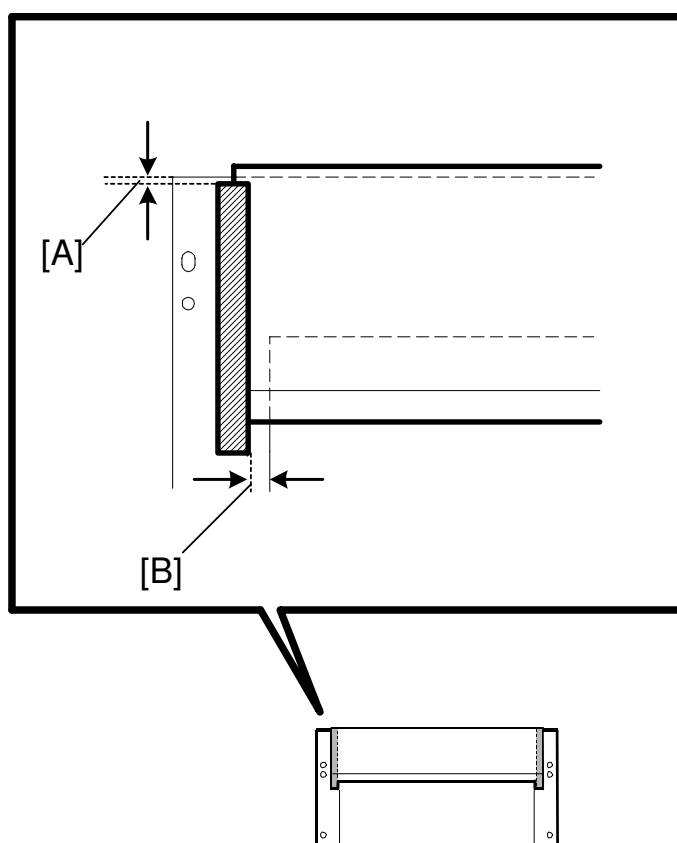
**No:** R-C249-021

## 3. REPLACEMENT AND ADJUSTMENT

### 3.8.4 MYLAR SEAL

- The attachment position on the B4 model is different from that of the A3 and A4 models.  
**Important:** Clean the attachment area with isopropyl alcohol.

**Attachment position for B4 models:**



[A]: -0.5 to 0.5 mm

[B]: 4.9 to 6.5 mm

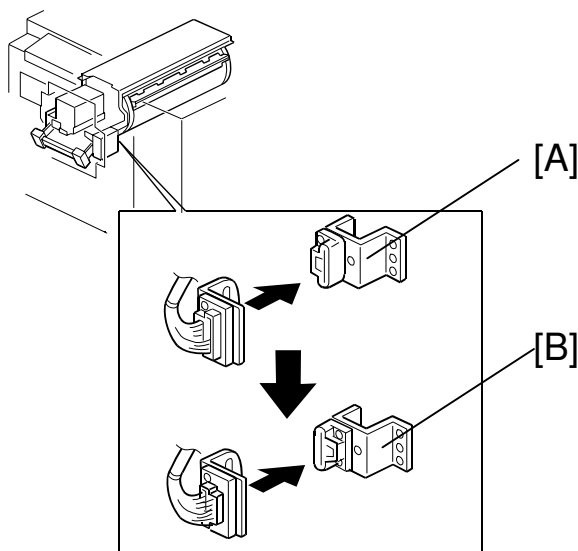
## 4. TROUBLESHOOTING

### 4.3 FUSE, LED, VR, DIP-SW, AND TP TABLES

#### 4.3.4 DIP SWITCHES

##### *Ink detection board*

NO.	Normal drum (B4)	Color drum (B4)
SW1	OFF	OFF
SW2	OFF	ON
SW3	OFF	OFF
SW4	OFF	OFF



- As mentioned above, B4 models only support B4 drums.
- To ensure that the A3/A4 drum cannot be installed on the B4 model, the direction of the connector was changed from [A] to [B] (see above).

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## 5. SERVICE TABLES

### 5.3 MAIN MENU NO.2: BASIC SETTINGS

#### 5.3.1 SP TABLE

No.	Menu Items	Default	Settings
2-41	T/H energy control: B4	12	0 to 50%

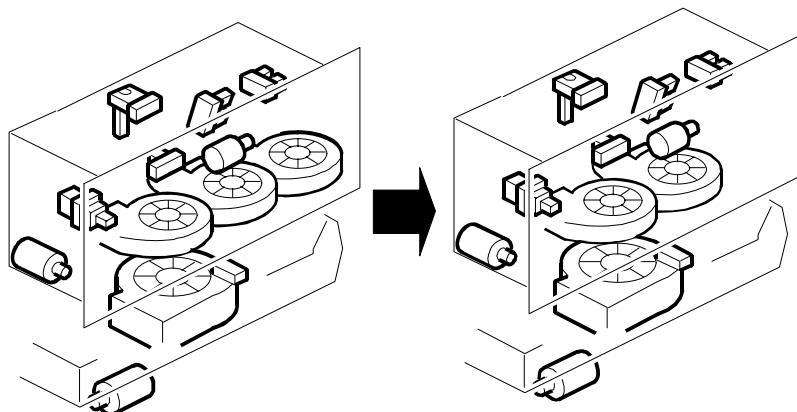
#### 5.3.10 SP2-41, 2-42: THERMAL HEAD ENERGY CONTROL

- The default for B4 mode is 12%. The means that during normal printing, the thermal head energy is 88% of the maximum possible T/H energy level.

## 6. DETAILED SECTION DESCRIPTIONS

### 6.1 MACHANISM OVERVIEW

#### 6.1.2 ELECTRICAL COMPONENT LAYOUT



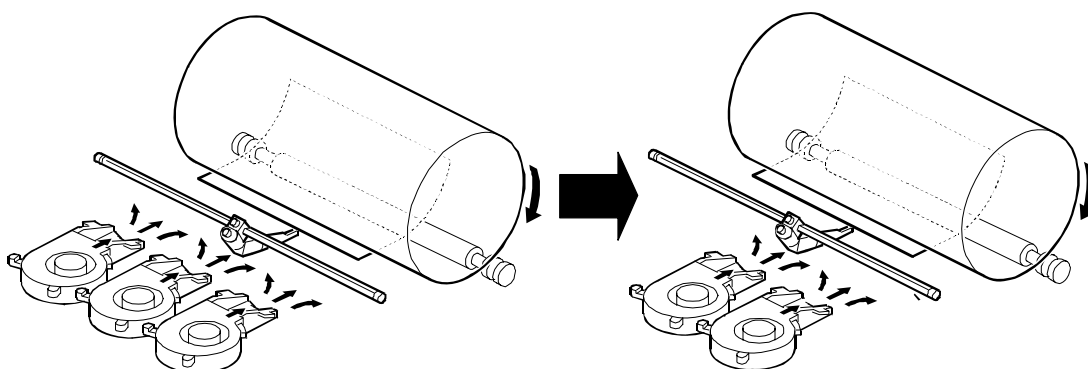
- The number of air knife fan motors was decreased from 3 to 2. This is because the size of the printable image area was decreased.

#### 6.5.12 CUTTER MECHANISM

- The cutter cuts a master of about 490mm in length when a B4 drum is used.

#### 6.8.3 PAPER SEPARATION FROM THE DRUM

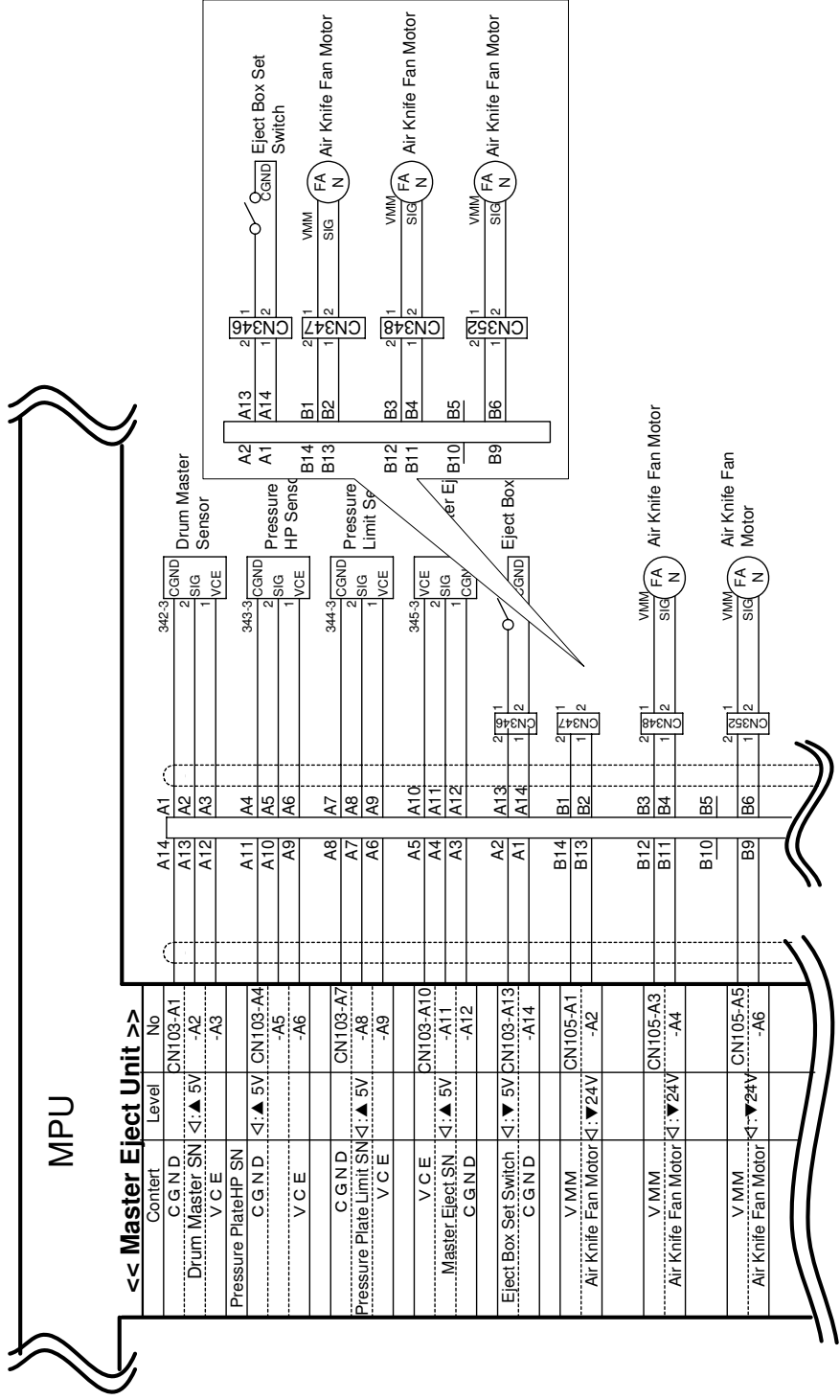
##### *Air knife fan*



- The number of air knife fan motors was decreased from 3 to 2. This is because the size of the printable image area was decreased.

7. POINT TO POINT DIAGRAM

- The number of air knife fan motors was decreased from 3 to 2. CN347 is not used to connect the air knife fan motor on the B4 model.



**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver

**Date:** 29-Jun-06

**No:** R-C249- 021

## SPECIFICATIONS

### GENERAL SPECIFICATIONS

- The specifications are the same as those of the A3 model, **except for** the following differences:

**Printing Area:** 251mm x 355mm

**Power Source:** China

220-240V, 50/60Hz

**Master Processing Time:** No more than 28 seconds (B4 copying)

**Master Type:** **Thermal master roll type:** 280mm width, 110m/roll

**Yield:** 220 masters/roll

**Optical Equipment:** B4 color drum

**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD  
ver

**Date:** 29-Jun-06

**No:** R-C249- 021

## OVERALL INFORMATION

### DIFFERENT SECTIONS BETWEEN STANDARD VERSION AND P VERSION MODEL

Section	Item	Remark
1	Installation	No differences
2	Preventive maintenance	No differences
3	Replacement and adjustment	No differences
4	Troubleshooting	No differences
5	Service tables	No differences
6	Detailed section descriptions	No differences
7.	Point to Point diagram	No differences
Spec	Specifications	<b>Some items added</b>
CLT	Printer controller unit	<b>New documents</b>

## SPECIFICATIONS

### GENERAL SPECIFICATIONS

- The specifications for the standard version and P version are the same, **except for** the following differences:

**Printer controller unit:** Embedded Printer controller unit (VC-20) fitted as standard.

**Printer driver:** Drivers support Chinese

## PRINTER CONTROLLER UNIT

### INSTALLATION

- P versions are equipped with a standard printer controller unit and Video I/F board.
- Connect the printer controller unit to the host computer with a USB cable. Then, install the printer driver in the host computer.

Computer	PC/AT compatible PC
Interface	USB1.1, USB2.0 (Full speed) Compatible
Operating Systems Supported	Windows 98se/ME, Windows 2000/XP/Server 2003
Drivers	VC-20 A3 400 GDI (A3 model) VC-20 B4 400 GDI (B4 model)



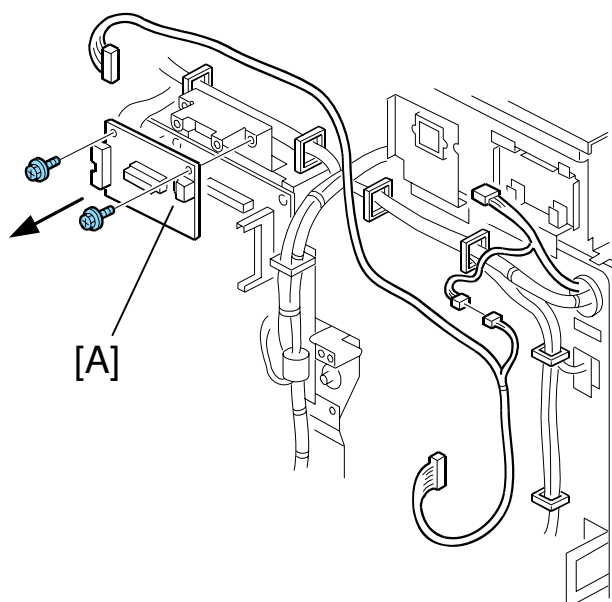
## REPLACEMENT AND ADJUSTMENT

### ⚠ CAUTION

Before removing any of the controller components, make sure to do the following:

1. Turn the machine main power OFF.  
Important: If the “Data-in” lamp on the operation panel is blinking or lit, turn the power OFF after the document or report is printed.
2. After the power is OFF, disconnect the power cord from the outlet.  
Then, disconnect the power cable from the machine.

[A]: Video I/F Board



## SERVICE TABLES

There are no SP modes for the printer controller unit.

**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver**Date:** 29-Jun-06**No:** R-C249- 021

## SPECIFICATIONS

Controller Type	Embedded
Configuration	Internal embedded controller
Printer Language	GDI
Print Resolution	400 dpi
On Board Memory	16MB
Resident Font	None
Interface	USB1.1, USB2.0 (Full speed) Compatible
Operating Systems Supported	Windows 98se/ME, Windows 2000/XP/Server 2003
Drivers*	VC-20 A3 400 GDI (A3 model) VC-20 B4 400 GDI (B4 model)

\*: Common between Ricoh and Gestetner brands.

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## OVERALL INFORMATION

### DIFFERENT SECTIONS BETWEEN STANDARD VERSION AND CD VERSION MODELS

- **CD** versions are the lower-cost versions of the HP4-R2, and have the following features.
  - Conventional paper delivery tray (without buffer fins).
  - No soundproof cushions.

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 09-Aug-06	<b>No:</b> R-C249-022
<b>Subject:</b> HP4-R2+VC-20 Problem		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP 4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

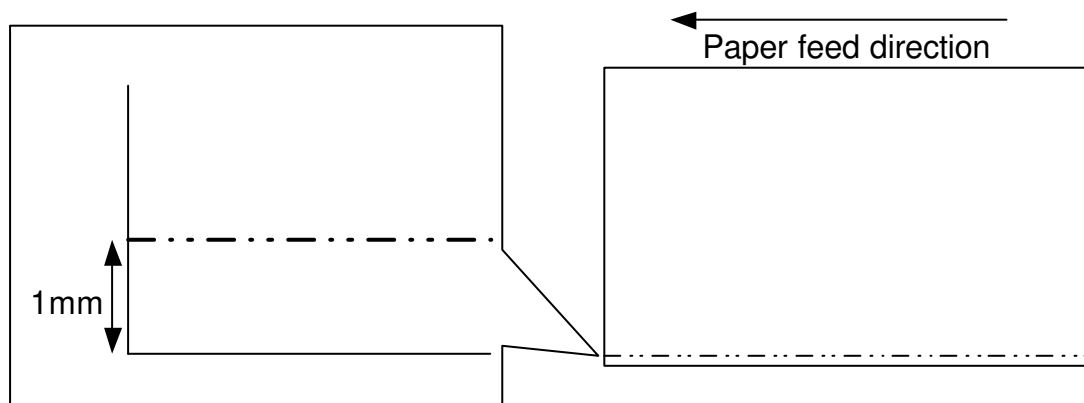
**Note:** The RTB is for the HP4-R2 only. (It does not apply to the P version, CD version, or CDP version).

## Symptom:

An ink streak occurs on the edge of the printed paper.

## Note:

- This only happens when the image is printed out from the **VC-20** optional controller.
- See the RTB#C249018a for the firmware change history.



## Cause:

Image processing error in the VC-20

**Model:** PRIPORT HP4/HP4P/HP4-R2**Date:** 09-Aug-06**No:** R-C249-022**Solution:****Production**

The firmware was modified to correct the image processing error.

**In the field**

Update to main firmware C2645135**C** or newer.

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 23-Jan-07	<b>No:</b> R-C930-023a
<b>Subject:</b> HP4-R2 B4 firmware history		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

The RTB has been issued to announce the firmware release information for the **HP4-R2 B4**.

## FIRMWARE MODIFICATION HISTORY

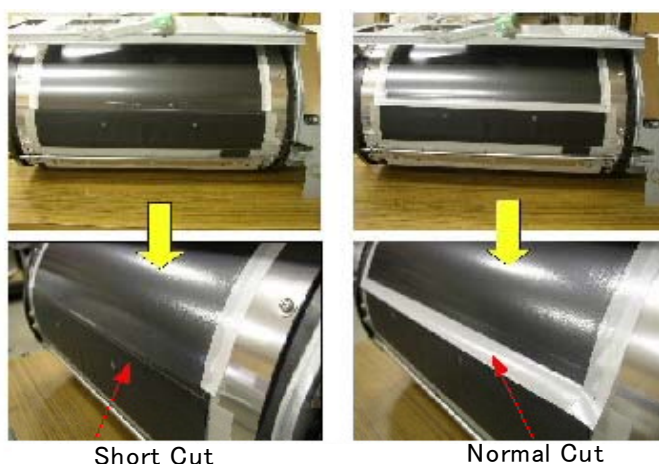
C2685135	File Name	Version	C.SUM	Production
A	C2685135A.bin	1.07	D3C0	1 <sup>st</sup> mass production
B	C2685135B.bin	1.10	F73C	October 2006 production
<b>C</b>	<b>C2685135C.bin</b>	<b>1.11</b>	<b>0822</b>	<b>January 2007 production</b>

Symptom Corrected / Changes	Suffix
1 <sup>st</sup> mass production	A
(applies to Japan model only)	B
<b>Other changes:</b> <b>The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No."</b> <b>Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.</b>	C

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 19-Sep-06	<b>No:</b> R-C249-024
<b>Subject:</b> The occasion of master short cut		<b>Prepared by:</b> M. Kumagai, Priort Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

## SYMPTOM

The master is cut too short, and an ink blotch can be seen on the rear side of the paper.



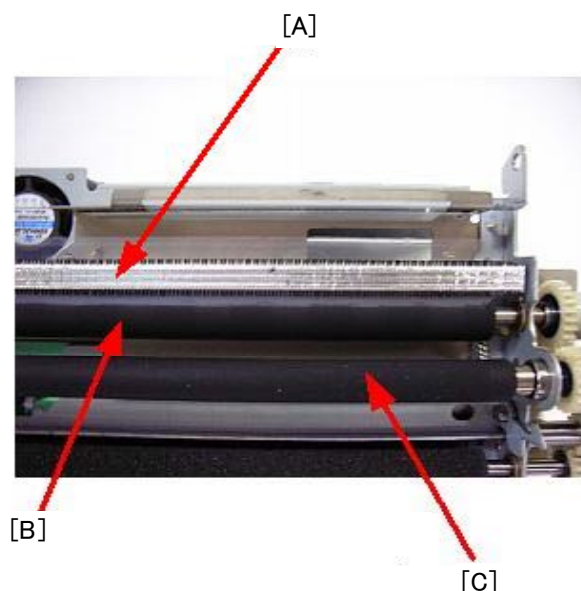
**Model:** PRIORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD  
ver

**Date:** 19-Sep-06

**No:** R-C249-024

## CAUSE

Dust [D] causes the burr on the guide sheet [A] to contact the front tension roller [B], which slows down the master feeding speed. The master is then cut short the next time it is fed.



[C] = Platen roller

## SOLUTION

### Production line

1. The burrs on the guide plate were bent so that they will not contact the tension roller.
2. The thickness of the guide sheet was decreased from 0.1mm to 0.075mm, which decreases the pressure on the tension roller.

**Note:** See MB MC249022 and MC264004 for more details.

### In the field

Install the new Guide Sheet (P/N C2642050) or Guide Plate Ass'y (P/N C2642051).



Reissued: 15-Jan-07

**RTB Correction**

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001g
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b>			
HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

The following is the firmware modification history of Priport product HP4/HP4P.

**FIRMWARE MODIFICATION HISTORY**

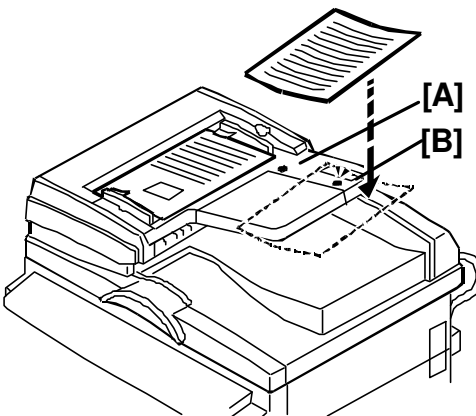
C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
P	C2495114P.bin	3.09	8DC6	March 2004 production
Q	C2495114Q.bin	3.10	9F5A	June 2004 production
R	C2495114R.bin	3.12	D2CF	October 2004 production
S	C2495114S.bin	3.13	864C	November 2004 production
T	C2495114T.bin	3.14	C8F9	December 2004 production
V	C2495114V.bin	3.17	C8AD	February 2005 production
W	C2495114W.bin	3.18	6BDF	February 2006 production
X	C2495114X.bin	3.19	5021	June 2006 production
<b>Y</b>	<b><i>C2495114Y.bin</i></b>	<b><i>3.20</i></b>	<b><i>27C3</i></b>	<b><i>January 2007 production</i></b>

Reissued: 15-Jan-07

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001g

Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>1. The opening/closing time of the master clamber has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clamber motor and ensures E-00 (clamber error) does not occur.</li> <li>2. The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>3. Misdetection of master eject jam "B", "E".</li> </ol>	N
<ol style="list-style-type: none"> <li>1. Image shifting due to incorrect ADF paper loading: Firmware modified so that once the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or neither of the sensors, it will not switch over to an "undefined size". if something is placed on top of the right (outermost) length sensor [B].</li> </ol> <p>Example: Machine will not switch to "undefined size" even when a sheet is placed on the right length sensor after it has detected an A4 LEF sheet.</p> 	P

Reissued: 15-Jan-07

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001g

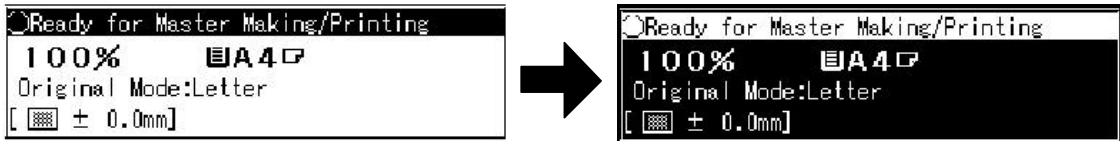
Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to not let the ink leak from trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This presses the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>.</p> <p>When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) by SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print to not let doubled images of previous prints occur when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access the SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														

Reissued: 15-Jan-07

**Model:** PRIORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001g

Symptom Corrected / Changes	Suffix
<p>4. New SP mode added: SP8-18 (Temporary security off)</p> <p>This function cancels "Security Mode" to prevent consumption of wasteful masters when the engineer repairs/inspects the machine.</p> <p>When this SP8-18 is "ON", the drum rotates to the home position. You can pull out the drum unit from the machine. At this time the color of the indicator on the operation panel turns over. Examine the illustration below.</p> <div style="display: flex; align-items: center; justify-content: center;">  </div> <p>Note: Set SP 8-18 "OFF" after you repair/inspect the machine.</p> <p>Supplementary explanation: "Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor, pull out the drum unit when you set "Security Mode". You cannot clear "Security Mode" by turning off the main switch. The job will not occur when you set a new original and press the "start" key.</p>	P
<p>1. The data in the NVRAM is erased.</p> <p>The data in the NVRAM gets erased when you put the old NVRAM to the new main processing unit after you replace the new main processing unit including the new SP mode.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 10px; text-align: center; width: 30%;"> <p><b>Old</b></p> <p>Main Processing Unit</p> <p>*SP?-1, 2, 3</p> <p>NVRAM</p> </div> <div style="margin: 0 20px;">→</div> <div style="border: 1px solid black; padding: 10px; text-align: center; width: 30%;"> <p><b>New</b></p> <p>Main Processing Unit (including the new SP mode)</p> <p>*SP?-1, 2, 3, <u>4</u></p> <p>NVRAM</p> </div> </div>	Q

Reissued: 15-Jan-07

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001g
--------------------------------	------------------------	------------------------

Symptom Corrected / Changes	Suffix
<p>1. The machine will sometimes open and close the master clasper (see RTB #RC249011).</p> <p>Note:</p> <ul style="list-style-type: none"> <li>This was added to make sure the clasper stays closed in the correct position. If a service/sales representative closes it incorrectly (=lower teeth on the outside), this can cause a D-jam or noise during the master-making process.</li> <li>The machine opens/closes the clamp if: 1) the drum is not in the home position and 2) there is no master around the drum. Then, the actual open/close is performed when 1) the power is turned on, 2) the machine recovers from E-Saver mode and 3) when the front door is closed.</li> </ul>	R
<p>1. The brightness of the operation panel changes when the setting for "LCD Contrast" is changed (User Tools 2-4).</p>	S
<p>A misdetection of E-23 occurs when the machine is turned on.</p> <p>Note: E-23: "Master Eject Position Sensor (Drum HP) Error".</p>	T
<p>The status change time for the thermal head HP sensor was changed from 4.0sec to 6.0sec to ensure E-47 does not occur.</p> <p>Note: E-47: "Thermal head driving error".</p>	V
<p>1. A misdetection of E-43 occurs after printing.</p> <p>Note: E-43: "Printing Pressure Error"</p> <p>2. A new SP mode was added: SP2-95 (paper table standby pos.)</p> <p>Note: See RTB#RC249019 for details.</p>	W
<p>The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).</p>	X
<p><b>Other changes:</b></p> <p><b>The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No."</b></p> <p><b>Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.</b></p>	Y

Reissued: 15-Jan-07

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 15-May-06	<b>No:</b> R-C249-018b
<b>Subject:</b> Firmware modification history		<b>Prepared by:</b> M. Kanomata, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: Ricoh DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

This is to inform you of the firmware history for the **HP4-R2**.

**NOTE:** The China model has not been produced yet, so the firmware number is since **C2645135A**.

## FIRMWARE MODIFICATION HISTORY

C2645135	File Name	Version	C. SUM	Production
<b>E</b>	<b>C2645135E.bin</b>	<b>1.11</b>	<b>E656</b>	<b>January 2007 production</b>
D	C2645135D.bin	1.10	69AD	October 2006 production
C	C2645135C	1.07	AF5D	July 2006 production
B	C2645135B	1.04	3AC1	June 2006 production
A	C2645135A.bin	1.01	F4F4	April 2006 production
No-Suffix	C2645135.bin	1.00	E88F	1st Mass Production

Symptom Corrected	Suffix
<b>Other changes:</b> <b>The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No."</b> <b>Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.</b>	<b>E</b>
(applies to Japan model only)	D
Ink streaks occur on the edge of the printed paper. Note: This only happens when the paper is printed out from the VC-20 when connected to the HP4-R2. Also, this does not occur with the P, CD and CDP versions. For details, see RTB #RC249022.	C
The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).	B
Word correction (Chinese only)	A
-	No-Suffix

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 16-Oct-07	<b>No:</b> R-C249-025
<b>Subject:</b> Abnormal noise from the master eject box		<b>Prepared by:</b> M. Kumagai, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

## SYMPTOM:

Noise sometimes occurs at machine installation.

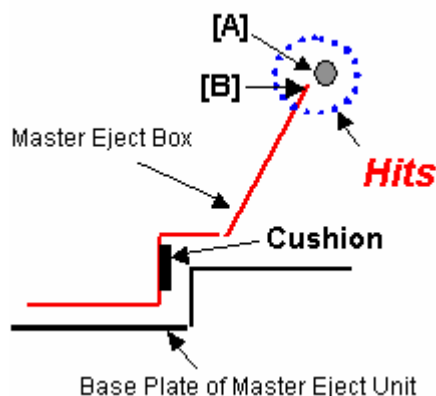
## CAUSE:

The front edge of the master eject box [B] hits the shaft of the master eject roller [A].

## SOLUTION:

Two cushions were added to the master eject box to prevent contact between these parts.

**Note:** See MB MC264-009 for parts information.



<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 18-Oct-07	<b>No:</b> R-C249-026
<b>Subject:</b> Master eject jam		<b>Prepared by:</b> M. Kumagai, Priport Service Planning Section	
<b>Classification:</b>	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Other (      )	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

## SYMPTOM

Master eject jam

## CAUSE

The edge of the master eject box touches the Mylar on the side of the pressure plate, which deforms the Mylar. Sometimes, the master can catch on the deformed Mylar and block a newly ejected master.

## SOLUTION

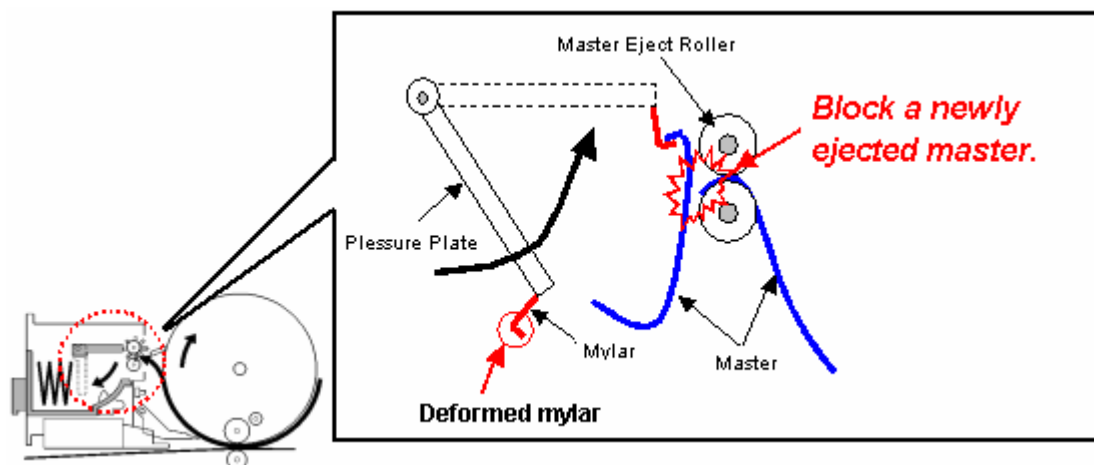
- 1) Change to the new master eject box.  
See MB MC264-010 for parts information.
- 2) **(A).**Remove the two cushions on the master eject box. Then, apply silicone grease/oil to the front side of the master eject box.  
**See the procedure below.**  
  
**(B).**Replace the Mylar on the side of the pressure plate if it is deformed.  
**Note:** This Mylar is only used on the C264.



**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver

**Date:** 18-Oct-07

**No:** R-C249-026



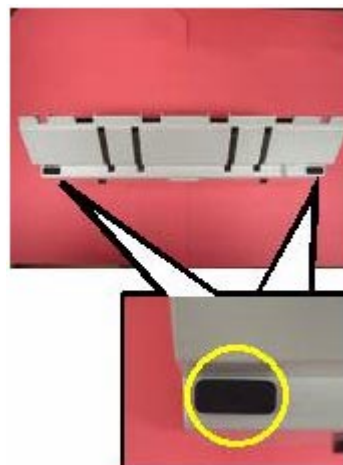
**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver

**Date:** 18-Oct-07

**No:** R-C249-026

## PROCEDURE

1. Remove the two cushions from the master eject box.

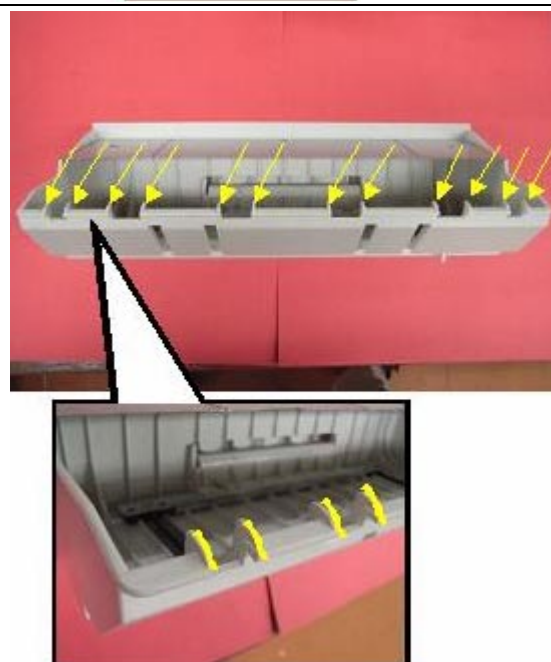


2. Apply silicone grease or oil to the front edge of master eject box.

**Important:** Only use the following silicone grease or oil:

Hortatory silicone grease: P/N **52039502**

Hortatory silicone oil: P/N **A2579100, A2579550**



**Model:** PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver

**Date:** 18-Oct-07

**No:** R-C249-026

3. Check the condition of the front edge of the pressure plate (C264 only).

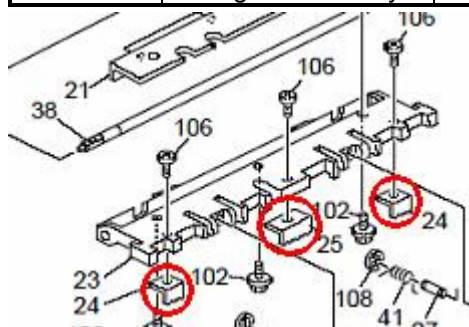
**Important:**

- 1) Check the center and both sides of pressure plate.
- 2) Replace the Mylar if it is deformed.

**Note:** P/N changes are shown below.



Number	Description	Qty	Page	Index
C2493513	Small Claw Ass'y	2	49	24
C2493512	Large Claw Ass'y	1	49	25



**Reissued: 12-Nov-08**

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 15-May-06	<b>No:</b> R-C249-018c
<b>Subject:</b> Firmware modification history		<b>Prepared by:</b> M.Kumagai, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: Ricoh DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

This is to inform you of the firmware history for the **HP4-R2**.

**NOTE:** The China model has not been produced yet so the firmware number is since **C2645135A**.

## FIRMWARE MODIFICATION HISTORY

C2645135	File Name	Version	C. SUM	Production
<b>F</b>	<b>C2645135F.bin</b>	<b>1.13</b>	<b>49DA</b>	<b>September 2007 production</b>
E	C2645135E.bin	1.11	E656	January 2007 production
D	C2645135D.bin	1.10	69AD	October 2006 production
C	C2645135C	1.07	AF5D	July 2006 production
B	C2645135B	1.04	3AC1	June 2006 production
A	C2645135A.bin	1.01	F4F4	April 2006 production
No-Suffix	C2645135.bin	1.00	E88F	1st Mass Production

Symptom Corrected	Suffix
<b>Other changes:</b> <b>Supports the Asia model (machine code C264-35 and prefix code N61 were added).</b>	<b>F</b>
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	E
(applies to Japan model only)	D
Ink streaks occur on the edge of the printed paper. Note: This only happens when the paper is printed out from the VC-20 when connected to the HP4-R2. Also, this does not occur with the P, CD and CDP versions. For details, see RTB #RC249022.	C
The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).	B
Word correction (Chinese only)	A
-	No-Suffix

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 5-Nov-08	<b>No:</b> R-C249-023b
<b>Subject:</b> HP4-R2 B4 firmware history		<b>Prepared by:</b> M.Kumagai, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

The RTB has been issued to announce the firmware release information for the **HP4-R2 B4**.

## FIRMWARE MODIFICATION HISTORY

C2685135	File Name	Version	C.SUM	Production
A	C2685135A.bin	1.07	D3C0	1 <sup>st</sup> mass production
B	C2685135B.bin	1.10	F73C	October 2006 production
C	C2685135C.bin	1.11	0822	January 2007 production
<b>D</b>	<b>C2685135D.bin</b>	<b>1.12</b>	<b>F115</b>	<b>March 2007 production</b>

Symptom Corrected / Changes	Suffix
1 <sup>st</sup> mass production	A
(applies to Japan model only)	B
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	C
<b>Symptom corrected:</b> <b>Sometimes, the trailing edge of the master is folded.</b> <b>Note: To correct this, duct fan re-suction will be performed 400ms after the master is cut.</b>	D

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 14-Nov-08	<b>No:</b> R-C249-023c
<b>Subject:</b> HP4-R2 B4 firmware history		<b>Prepared by:</b> M.Kumagai, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

The RTB has been issued to announce the firmware release information for the **HP4-R2 B4**.

## FIRMWARE MODIFICATION HISTORY

C2685135	File Name	Version	C.SUM	Production
A	C2685135A.bin	1.07	D3C0	1 <sup>st</sup> mass production
B	C2685135B.bin	1.10	F73C	October 2006 production
C	C2685135C.bin	1.11	0822	January 2007 production
D	C2685135D.bin	1.12	F115	March 2007 production
<b>E</b>	<b>C2685135E.bin</b>	<b>1.15</b>	<b>CB97</b>	<b>November 2008 production</b>

Symptom Corrected / Changes	Suffix
1 <sup>st</sup> mass production	A
(applies to Japan model only)	B
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	C
Symptom corrected: Sometimes, the trailing edge of the master is folded. Note: To correct this, duct fan re-suction will be performed 400ms after the master is cut.	D

***Other changes:***

- 1. The master buffer duct open/close timing was changed (to improve the performance of the master clamp even when the master is curled slightly).***
- 2. The timing for the master vacuum fan and blower fan motor were changed (same reason as #1 above).***

***E***

**Reissued: 19-Nov-08**

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 15-May-06	<b>No:</b> R-C249-018d
<b>Subject:</b> Firmware modification history		<b>Prepared by:</b> M.Kumagai, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: Ricoh DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

This is to inform you of the firmware history for the **HP4-R2**.

**NOTE:** The China model has not been produced yet so the firmware number is since **C2645135A**.

## FIRMWARE MODIFICATION HISTORY

C2645135	File Name	Version	C. SUM	Production
<b>G</b>	<b>C2645135G.bin</b>	<b>1.15</b>	<b>0A76</b>	<b>November 2008 production</b>
F	C2645135F.bin	1.13	49DA	September 2007 production
E	C2645135E.bin	1.11	E656	January 2007 production
D	C2645135D.bin	1.10	69AD	October 2006 production
C	C2645135C	1.07	AF5D	July 2006 production
B	C2645135B	1.04	3AC1	June 2006 production
A	C2645135A.bin	1.01	F4F4	April 2006 production
No-Suffix	C2645135.bin	1.00	E88F	1st Mass Production

Symptom Corrected	Suffix
<b>Other changes:</b> <b>1. The master buffer duct open/close timing was changed (to improve the performance of the master clamp even when the master is curled slightly).</b> <b>2. The timing for the master vacuum fan and blower fan motor were changed (same reason as #1 above).</b>	<b>G</b>
Other changes: Supports the Asia model (machine code C264-35 and prefix code N61 were added).	<b>F</b>
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	<b>E</b>
(applies to Japan model only)	<b>D</b>



**Reissued: 19-Nov-08**

Ink streaks occur on the edge of the printed paper. Note: This only happens when the paper is printed out from the VC-20 when connected to the HP4-R2. Also, this does not occur with the P, CD and CDP versions. For details, see RTB #RC249022.	C
The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).	B
Word correction (Chinese only)	A
-	No-Suffix

Model: P HP4/HP4P		Date: 7-Apr-09	No.: RC249027
Subject: Master eject jam		Prepared by: M.Kumagai	
From: 2nd Tech Support Sec. Service Support Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting	<input type="checkbox"/> Part information	<input type="checkbox"/> Action required
	<input type="checkbox"/> Mechanical	<input type="checkbox"/> Electrical	<input type="checkbox"/> Service manual revision
	<input type="checkbox"/> Paper path	<input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Retrofit information
	<input type="checkbox"/> Product Safety	<input type="checkbox"/> Other (      )	<input type="checkbox"/> Tier 2

**Note:** This RTB is for the B4 model (China) only.

## SYMPTOM

Master eject jam

## CAUSE

Sometimes, the ejected master wraps around the master eject roller.

## SOLUTION

1. Replace the upper master roller with the modified roller ([P/N C2733446](#)).

**Note:** See MB **MC264-019** for related parts information.

2. Update the firmware to ver1.15 or newer.

**Note:** See RTB **RC249-023c** for related firmware information.

**Reissued: 01-Jul-09**

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 15-May-06	<b>No:</b> R-C249-018e
<b>Subject:</b> Firmware modification history		<b>Prepared by:</b> K. Yamamoto, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: Ricoh DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

This is to inform you of the firmware history for the **HP4-R2**.

## FIRMWARE MODIFICATION HISTORY

C2645135	File Name	Version	C. SUM	Production
<b>H</b>	<b>C2645135H.bin</b>	<b>1.16</b>	<b>3DAE</b>	<b>January 2009 production</b>
G	C2645135G.bin	1.15	0A76	November 2008 production
F	C2645135F.bin	1.13	49DA	September 2007 production
E	C2645135E.bin	1.11	E656	January 2007 production
D	C2645135D.bin	1.10	69AD	October 2006 production
C	C2645135C	1.07	AF5D	July 2006 production
B	C2645135B	1.04	3AC1	June 2006 production
A	C2645135A.bin	1.01	F4F4	April 2006 production
No-Suffix	C2645135.bin	1.00	E88F	1st Mass Production

Symptom Corrected	Suffix
<b>Other changes:</b> <b>The stop timing of the master eject roller was changed, which will further minimize master eject jams.</b>	<b>H</b>
Other changes: 1. The master buffer duct open/close timing was changed (to improve the performance of the master clamp even when the master is curled slightly). 2. The timing for the master vacuum fan and blower fan motor were changed (same reason as #1 above).	G
Other changes: Supports the Asia model (machine code C264-35 and prefix code N61 were added).	F
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	E
(Applies to Japan model only)	D

**Reissued: 01-Jul-09**

Ink streaks occur on the edge of the printed paper. Note: This only happens when the paper is printed out from the VC-20 when connected to the HP4-R2. Also, this does not occur with the P, CD and CDP versions. For details, see RTB #RC249022.	C
The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).	B
Word correction (Chinese only)	A
-	No-Suffix

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 6-Jul-09	<b>No:</b> R-C249-023d
<b>Subject:</b> HP4-R2 B4 firmware history		<b>Prepared by:</b> K. Yamamoto, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

The RTB has been issued to announce the firmware release information for the **HP4-R2 B4**.

## FIRMWARE MODIFICATION HISTORY

C2685135	File Name	Version	C.SUM	Production
A	C2685135A.bin	1.07	D3C0	1 <sup>st</sup> mass production
B	C2685135B.bin	1.10	F73C	October 2006 production
C	C2685135C.bin	1.11	0822	January 2007 production
D	C2685135D.bin	1.12	F115	March 2007 production
E	C2685135E.bin	1.15	CB97	November 2008 production
<b>F</b>	<b>C2685135F.bin</b>	<b>1.16</b>	<b>8A86</b>	<b>January 2009 production</b>
<b>G</b>	<b>C2685135G.bin</b>	<b>1.17</b>	<b>4F77</b>	<b>May 2009 production</b>

Symptom Corrected / Changes	Suffix
1st mass production	A
(Applies to Japan model only)	B
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	C

Symptom corrected: Sometimes, the trailing edge of the master is folded. Note: To correct this, duct fan re-suction will be performed 400ms after the master is cut.	D
Other changes: 1. The master buffer duct open/close timing was changed (to improve the performance of the master clamp even when the master is curled slightly). 2. The timing for the master vacuum fan and blower fan motor were changed (same reason as #1 above).	E
<b>Other changes:</b> <b>1. The stop timing of the master eject roller was changed, which will further minimize master eject jams.</b>	<b>F</b>
<b>Other changes:</b> <b>1. The length of the printable area on the drum was increased by 1mm at the trailing edge.</b>	<b>G</b>

Model: P HP4/HP4P		Date: 8-Sep-09	No.: RC249028
Subject: MB correction MC249-023		Prepared by: M. Kumagai	
From: 2nd Tech Support Sec. Service Support 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		

**This RTB is for correction of MB MC249-023.**

The following ***bold italic*** part was corrected.

### Change:

- The materials of these parts were changed to more environmentally-friendly types.
- Parts standardization with the HP4-R2.

**Reason:** Ricoh's ongoing application of in-house environmental management standards.

### 1. Exterior

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2381265	C2491272	COVER FRONT SUB-ASS'Y	1	O/O	9	4
C2381361	C2641361	COVER REAR RIGHT ASS'Y	1	O/O	9	16
C2491362	C2641362	COVER REAR RIGHT ASS'Y (NA/EU/AA)	1	O/O	9	17

### 2. Operation Panel

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2495199	C2645199	HARNESS FFC OPERATION SUB-UNIT	1	O/O	11	25
C2495195	C2645195	LCD HQPG OPERATION SUB-UNIT	1	O/O	11	26
C2495181	C2645181	PCB HQPG OPERATION SUB-UNIT LEFT	1	O/O	11	28
C2495183	C2645183	PCB HQPG OPERATION SUB-UNIT RIGHT	1	O/O	11	31
C2495182	C2645182	PCB HQPG OPERATION SUB-UNIT MIDDLE	1	O/O	11	33

### 3. Scanner Unit 1

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
A2671814	C2441814	HINGE BRACKET - PLATEN COVER	1	O/O	13	1
A2671813	C2441813	SCANNER FRAME	2	O/O	13	2
B0271742	C2441742	BRACKET SCALE ASS'Y	1	O/O	13	5
A2671815	C2441815	RIGHT INNER COVER	1	O/O	13	10

Model: P HP4/HP4P

Date: 8-Sep-09

No.: RC249028

## 4. Scanner Unit 2

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2361673	C2621673	HOLDER LENS EMERALD ASS'Y	1	O/O	15	11
C2361655	C2441655	CARRIAGE NO.1 ASS'Y	1	O/O	15	13

## 5. Scanner Unit 3

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
A2671811	C2441811	FRONT STAY BRACKET	1	O/O	17	1
A2671849	C2441849	TENSION BRACKET	2	O/O	17	2
A1931783	AA060980	TENSION SPRING TENSION 11300MNa	2	O/O	17	3
C2441846	C2641846	BRACKET:IDLERMIDDLE PEEN	2	O/O	17	4
A2671853	B1801824	BRACKET IDLER LEFT FRONT PEEN	2	O/O	17	5
A2671671	C2591672	CARRIAGE:NO.2:ASS'Y	1	O/O	17	11
A2671854	B1801826	BRACKET IDLER LEFT INNER REAR PEEN	2	O/O	17	13
A2671825	C2641825	SHAFT SCANNER DRIVE	1	O/O	17	19
C2361825	C2575841	STEPPER MOTOR ASS'Y	1	O/O	17	22
A2671812	C2441812	REAR STAY BRACKET	1	O/O	17	24
C2361817	C2441817	MOTOR BRACKET	1	O/O	17	25
C2361815	C2441815	RIGHT INNER COVER	1	O/O	17	28

## 6. Paper table section

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2382779	C2642779	SPRING - PAPER FEED TRAY	2	O/O	19	2
C2565237	C2645237	PAPER TRAY RELAY HARNESS	1	O/O	19	10
AW020075	AW020141	PHOTOINTERRUPTOR	1	O/O	19	13
AW010076	AW010112	PHOTO REFLECTION SENSOR ORIGINAL TABLE	1	O/O	19	16
C2495236	C2645236	HARNESS PAPER FEED TRAY ASS'Y	1	O/O	19	17
C2492700	C2642700	PAPER FEED TRAY ASS'Y	1	O/O	19	21
C2312990	C2642992	PLATE MAGNET CATCH PAPER FEED TRAY	1	O/O	19	23
C2096168	C2676168	WASHER SLIDE END FENCE	1	O/O	19	31
52191957	C6121800	SCREW LENS GUIDE	2	O/O	19	39
C2385155	C2645155	PAPER SIZE SENSOR BOARD	1	O/O	19	44



Model: P HP4/HP4P

Date: 8-Sep-09

No.: RC249028

## 7. Paper Feed Section

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2382898	C2642898	SHAFT ARM FEED ROLLER UPPER	1	O/O	21	2
C2382900	C2642900	SHAFT SWIVEL FEED ROLLER UPPER	1	O/O	21	4
C2295807	C2575807	PHOTO REFLECTION SENSOR GP2A25	1	O/O	21	6
C2382909	C2642909	GUIDE PLATE FEED ROLLER ASS'Y	1	O/O	21	10
C2014665	C2614665	BEARING CASE ROLLER INK	2	O/O	21	13
C2382781	C2642781	SHAFT RISE PAPER FEED TRAY	1	O/O	21	16
C2382871	C2642871	DRUM STAY FRONT PAPER FEED ASS'Y	1	O/O	21	22
C2382891	C2642891	FEED ROLLER UPPER ASS'Y	1	O/O	21	27
C2362844	C2612844	SCREW SEPARATION UNIT	1	O/O	21	31

## 8. Paper Registration

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
AW020075	AW020141	PHOTOINTERRUPTOR	1	O/O	23	5
AA143120	C2577050	SCREW AA143120	6	O/O	23	24
50540536	AG070504	MAGNET CATCH 44.1N	1	O/O	23	32
C2385212	C2645212	PAPER SENSOR HARNESS	1	O/O	23	37
C2495825	C2645825	OPTICS SENSOR MASTER	1	O/O	23	38

## 9. Plotter Unit 1

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2491900	C2641905	PLOTTER A3 ASS'Y	1	O/O	25	*
C2495825	C2645825	OPTICS SENSOR MASTER	1	O/O	25	4
C2492045	C2642045	PLOTTER COVER	1	O/O	25	7
C2491961	C2641961	SPRING:OPEN AND CLOSE REAR PLOTTER	1	O/O	25	12
C2492040	C2642040	FRONT PLATE	1	O/O	25	19
C2492104	C2642104	PLATEN A3	1	O/O	25	22
C2492110	C2642110	ROLLER FRONT TENSION A3 ASS'Y	1	O/O	25	23
C2491962	C2641962	SPRING:OPEN AND CLOSE FRONT PLOTTER	1	O/O	25	25
C2382039	C2612039	SPRING LEVER LOCK PLOTTER	2	O/O	25	28
C2492107	C2642107	COVER:OPEN AND CLOSE LOWER ASS'Y	1	O/O	25	31
C2291994	C2641994	STOPPER RAIL PLOTTER MIDDLE	2	O/O	25	32
C2381955	C2641955	STAY COUPLING PLOTTER	1	O/O	25	34
50540536	AG070504	MAGNET CATCH 44.1N	1	O/O	25	39
C2492070	C2642070	CUTTER UNIT ASS'Y	1	O/O	25	42
C2495830	C2575826	AIR KNIFE DC MOTOR: 24V 5.3W	1	O/O	25	46
C2495244	C2645249	RELAY HARNESS	1	O/O	25	47

Model: P HP4/HP4P

Date: 8-Sep-09

No.: RC249028

## 10. Plotter Unit 2

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2495841	C2645841	STEPPER MOTOR PLOTTER ASS'Y	1	O/O	27	30
C2492157	C2642157	SPRING THERMAL HEAD	6	O/O	27	38
C2495825	C2645825	OPTICS SENSOR MASTER	1	O/O	27	39
C2492095	C2642095	GUIDE PLATE MASTER	1	O/O	27	43
H5215010	C2645831	STEPPER MOTOR DIA42	1	O/O	27	46

## 11. Plotter Unit 3

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2495830	C2575826	AIR KNIFE DC MOTOR: 24V 5.3W	2	O/O	29	4
C2495825	C2645825	OPTICS SENSOR MASTER	1	O/O	29	9
C2492020	C2642020	SIDE PLATE FIX FRONT PLOTTER ASS'Y	1	O/O	29	14
C2495246	C2645246	HARNESS DRIVE PLOTTER ASS'Y	1	O/O	29	19
C2492010	C2642010	PLOTTER REAR PLATE	1	O/O	29	32
AW020075	AW020141	PHOTOINTERRUPTOR	1	O/O	29	33

## 12. Press Roller Section

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2384482	C2644482	SHAFT PICKOFF PAWL	1	O/O	31	1
C2384485	C2614485	BRACKET ROLLER PRESSURE RELEASE	1	O/O	31	5
C2493145	C2643145	SPRING PRESSURE A3 DOM	2	O/O	31	13
<b>C2493050</b>	C2643050	PRESSURE ROLLER A3 DOMASS'Y	1	O/O	31	14
C2383123	C2643123	ANCHOR SPRING PRESSURE RIGHT ASS'Y	1	O/O	31	21
C2383137	C2613137	SPRING PRESSURE RELEASE	2	O/O	31	23
C2383135	C2643135	REAR SOLENOID BRACKET	1	O/O	31	24
C2383134	C2643134	REAR SOLENOID ASS'Y	1	O/O	31	25
C2383103	C2643103	REAR PRESSURE SHAFT	1	O/O	31	26
C2382607	C2642607	POSITIONING PIN DRUM RIGHT ASS'Y	1	O/O	31	28
C2383100	C2643099	SIDE PLATE PRESSURELEFT ASS'Y	1	O/O	31	29
C2383120	C2643120	ANCHOR SPRING PRESSURELEFT ASS'Y	1	O/O	31	32
C2383130	C2643130	ARM PRESSURE RELEASE LEFT ASS'Y	1	O/O	31	33
C2383131	C2643131	FRONT SOLENOID BRACKET	1	O/O	31	35
C2384349	C2614349	SPRING ARM PICKOFF PAWL	1	O/O	31	36
AW020075	AW020141	PHOTOINTERRUPTOR	5	O/O	31	38
C2493157	<b>C2643157</b>	SPRING PRESSURE AUXILIARY	2	O/O	31	44
H5215010	C2645831	STEPPER MOTOR DIA42	1	O/O	31	47
C2493155	C2643155	SHAFT PRESSURE AUXILIARY	1	O/O	31	51

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## 13. Drum Unit 1

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2382546	C2642546	TENSION SPRING HOLDER INK CARTRIDGE	1	O/O	33	4
C2382628	C2642631	PUMP INK 1000 ASS'Y	1	O/O	33	8
C2094713	C2442530	HOSE BAND	2	O/O	33	13
C2385803	C2595806	DC MOTOR 7.2W MM34	1	O/O	33	18
50540536	AG070504	MAGNET CATCH 44.1N	1	O/O	33	19
C2385145	C2645140	INK BOARD	1	O/O	33	21
C2382513	C2642513	SHAFT CONTACT POINT ARM DRUM	1	O/O	33	25
C2382619	C2642619	SIDE PLATE LEFT 1000 PEEN	1	O/O	33	31
C2495250	C2645250	HARNESS DRUM 1000 ASS'Y	1	O/O	33	34
C2382427	C2642427	SLIDER DRIVE PUMP	1	O/O	33	37
C2495253	C2645253	HARNESS CONNECTING MOTOR ASS'Y	1	O/O	33	39

## 14. Drum Unit 2

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2382507	C2642507	FRAME DRUM ASS'Y	1	O/O	35	2
C2292390	C2442390	SCREW STOPPER DRUM	1	O/O	35	5

## 15. Drum Unit 3

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2492309	C2642309	CLAMP ASS'Y	1	O/O	37	1
C2492407	C2642407	PAWL EXHAUST MASTER ASS'Y	1	O/O	37	2
C2382619	C2642619	SIDE PLATE LEFT 1000 PEEN	1	O/O	37	4
C2492360	C2642360	FLANGE DRUM A3 LEFT ASS'Y	1	X/O as a set	37	8
C2492362	C2642362	FLANGE DRUM A3 RIGHT ASS'Y	1		37	10

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## 16. Drum Unit 4

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2492325	C2642325	ROLLER INK A3 ASS'Y	1	O/O	39	*
AW100022	C2575861	THERMISTOR ASS'Y	1	O/O	39	6
C2094713	C2442530	HOSE BAND	1	O/O	39	7
C2382475	C2642476	DRUM SHAFT A3 ASS'Y	1	O/O	39	8
C2382463	C2642463	STAY MAIN DRUM A3	1	O/O	39	11
C2382465	C2642465	STAY AUXILIARY DRUM A3	1	O/O	39	14
C2014665	C2614665	BEARING CASE ROLLER INK	2	O/O	39	16
C2492334	C2642334	OIL SUPPLY ROLLER INK ASS'Y	1	O/O	39	39
C2295804	C2595804	DC MOTOR 2.0W MM32	1	O/O	39	43
C2492690	C2642690	BRACKET MOTOR PEEN	1	O/O	39	44
C2492691	C2642691	SHAFT:OIL SUPPLY ROLLER MOTOR	1	O/O	39	47
C2492681	C2642681	SHAFT ARM MOVE OIL SUPPLY ROLLER	1	O/O	39	49
AW020075	AW020141	PHOTO INTERRUPTOR	1	O/O	39	51
C2495253	C2645253	HARNESS CONNECTING MOTOR ASS'Y	1	O/O	39	55

## 17. Vacuum Fan Unit

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2385812	C2645812	STEPPER MOTOR TRANSPORT HALE UNIT	1	O/O	41	1
C2495880	C2615880	FAN AXIAL MM119	1	O/O	41	11
C2385272	C2645272	HARNESS HALE UNIT ASS'Y	1	O/O	41	13
AW010076	AW010109	PHOTO REFLECTION SENSOR PS117ED1	1	O/O	41	14
C2385275	C2645275	MOTOR RELAY HARNESS	1	O/O	41	16

## 18. Delivery Table

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2384431	C2684431	FRONT TABLE HINGE	1	O/O	43	17
C2314410	C2674410	BRACKET END PLATE ASS'Y	1	O/O	43	24
C2384432	C2684432	REAR TABLE HINGE	1	O/O	43	31
C2334400	C2684400	DELIVERY TABLE REAR STAY	1	O/O	43	32
C2334399	C2684399	DELIVERY TABLE FRONT STAY	1	O/O	43	33
C2314409	C2614409	SUPPORTING PLATE PAPER EXIT	2	O/O	43	37

Model: P HP4/HP4P

Date: 8-Sep-09

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## 19. Master Eject Unit

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2313513	C2643513	SCREW COVER CASE	2	O/O	45	3
C2493486	C2643486	CASE MASTER EJECTION ASS'Y	1	O/O	45	4
C2178446	C2615050	PHOTOINTERRUPT MASTER EJECTION	1	O/O	45	12
C2383474	C2643475	PRESSURE SHAFT	1	O/O	45	13
C2493455	C2643455	ROLLER UPPER ASSEMBLY	1	O/O	45	18
C2493466	C2643466	ROLLER LOWER MASTER EJECTION ASS'Y	1	O/O	45	19
C2525824	C2645824	FAN DC24V 0.66A	1	O/O	45	24
C2295811	C2595811	DC MOTOR 5.0W MM34 PULLEY	1	O/O	45	27
C2493484	C2643484	SPRING - 6.9N	2	O/O	45	30
C2295803	C2595803	DC MOTOR 5.0W MM34	1	O/O	45	37
C2494352	C2644352	COVER AIR KNIFE LOWER	1	O/O	45	57

## 20. Drive Section 1

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2494355	C2644355	PISTON PUMP ASS'Y	1	O/O	47	2
C2491180	C2641180	DRIVE UNIT AIR PUMP ASS'Y	1	O/O	47	3
C2491160	C2641160	GEAR DRIVE DRUM ASS'Y	1	O/O	47	10
C2315890	C2645890	BRUSHLESS MOTOR MAIN DC24V	1	O/O	47	11
C2381156	C2641156	ADJUSTING PIN TENSIONER ASS'Y	1	O/O	47	15
C2291145	C2441145	ROLLER BELT TENSIONER ASS'Y	1	O/O	47	16
C2384349	C2614349	SPRING ARM PICKOFF PAWL	1	O/O	47	20
C2015134	C2645134	BEARING CASE	1	O/O	47	23

## 21. Drive Section 2

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2385801	C2575817	STEPPER MOTOR MM56*64	2	O/O	49	1
C2382849	C2642849	MOTOR SPRING	2	O/O	49	4
AW020075	AW020141	PHOTOINTERRUPTOR	2	O/O	49	14
H5215010	C2645831	STEPPER MOTOR DIA42	1	O/O	49	16
C2174426	C2444426	SHOULDER SCREW	2	O/O	49	20

Model: P HP4/HP4P	Date: 8-Sep-09	No.: RC249028
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## 22.Electrical Section 1

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2291072	C2441072	GRIP GUIDE BRACKET	1	O/O	51	7
C2291071	C2441071	GRIP PLATE - SHORT	2	O/O	51	8
C2495150	C2645150	MOTOR CONTROL BOARD	1	O/O	51	21

## 23.Electical Section 2

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
50540536	AG070504	MAGNET CATCH 44.1N	1	O/O	53	3
C2295814	C2595814	DC MOTOR PAPER FEED TRAY 24V	1	O/O	53	6
C2495215	C2645215	HARNESS CONNECTING DRUM ASS'Y	1	O/O	53	9
C2375471	AX310049	TOTAL COUNTER 7FIG 24V	1	O/O	53	17
C2375472	AX310049	TOTAL COUNTER 7FIG 24V	1	O/O	53	18
AA143005	C2597051	SCREW	1	O/O	53	20

## 25.Frame Section

Old Part Number	New Part Number	Description	Q'ty	Int	Page	Index
C2503801	C2643801	DRUM STAY PAPER EXIT SUB-UNIT ASS'Y	1	O/O	57	5
C2291071	C2441071	GRIP PLATE - SHORT	2	O/O	57	20

**Reissued: 24-Mar-10**

<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2		<b>Date:</b> 15-May-06	<b>No:</b> R-C249-018f
<b>Subject:</b> Firmware modification history		<b>Prepared by:</b> K. Yamamoto, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary Cp6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6245P HP4-R2: Ricoh DX4542/DX4542C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245			

This is to inform you of the firmware history for the **HP4-R2**.

## FIRMWARE MODIFICATION HISTORY

C2645135	File Name	Version	C. SUM	Production
<b>J</b>	<b>C2645135J.bin</b>	<b>1.18</b>	<b>D84D</b>	<b>January 2010 production</b>
H	C2645135H.bin	1.16	3DAE	January 2009 production
G	C2645135G.bin	1.15	0A76	November 2008 production
F	C2645135F.bin	1.13	49DA	September 2007 production
E	C2645135E.bin	1.11	E656	January 2007 production
D	C2645135D.bin	1.10	69AD	October 2006 production
C	C2645135C	1.07	AF5D	July 2006 production
B	C2645135B	1.04	3AC1	June 2006 production
A	C2645135A.bin	1.01	F4F4	April 2006 production
No-Suffix	C2645135.bin	1.00	E88F	1st Mass production

Symptom Corrected	Suffix
<b>Symptom corrected:</b> <b><i>The printed image is shifted due to the skewing of the master during the master wrapping process.</i></b>	<b>J</b>
Other changes: The stop timing of the master eject roller was changed, which will further minimize master eject jams.	H
Other changes: 1. The master buffer duct open/close timing was changed (to improve the performance of the master clamp even when the master is curled slightly). 2. The timing for the master vacuum fan and blower fan motor were changed (same reason as #1 above).	G
Other changes: Supports the Asia model (machine code C264-35 and prefix code N61 were added).	F

**Reissued: 24-Mar-10**

Symptom Corrected	Suffix
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	E
(Applies to Japan model only)	D
Ink streaks occur on the edge of the printed paper. Note: This only happens when the paper is printed out from the VC-20 when connected to the HP4-R2. Also, this does not occur with the P, CD and CDP versions. For details, see RTB #RC249022.	C
The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).	B
Word correction (Chinese only)	A
-	No-Suffix



<b>Model:</b> PRIPORT HP4/HP4P/HP4-R2/HP4-R2P ver/HP4-R2CD ver		<b>Date:</b> 24-Mar-10	<b>No:</b> R-C249-023e
<b>Subject:</b> HP4-R2 B4 firmware history		<b>Prepared by:</b> K. Yamamoto, Priport Service Planning Section	
<b>Classification:</b>	<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 checked="" type="checkbox"/> Other (      )		
<b>Model Name:</b> HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner CP6254P HP4-R2: Ricoh DX4542/DX4242C, Gestetner CP6244+/CP6450C/DX4542, RexRotary DX4542, nashuatec DX4542, Savin 3270DNP, Standard SD430, Lanier LDD245 HP4-R2 P (China only): Ricoh DX4542CP, Gestetner CP6450P HP4-R2 A3CD (China only): Ricoh DX4543C, Gestetner CP6451C HP4-R2 B4CD (China only): Ricoh DX4443C, Gestetner CP6401C HP4-R2 A3CD P (China only): Ricoh DX4543CP, Gestetner CP6451P HP4-R2 B4CD P (China only): Ricoh DX4443CP, Gestetner CP6401P			

The RTB has been issued to announce the firmware release information for the **HP4-R2 B4**.

## FIRMWARE MODIFICATION HISTORY

C2685135	File Name	Version	C.SUM	Production
A	C2685135A.bin	1.07	D3C0	1 <sup>st</sup> Mass production
B	C2685135B.bin	1.10	F73C	October 2006 production
C	C2685135C.bin	1.11	0822	January 2007 production
D	C2685135D.bin	1.12	F115	March 2007 production
E	C2685135E.bin	1.15	CB97	November 2008 production
F	C2685135F.bin	1.16	8A86	January 2009 production
G	C2685135G.bin	1.17	4F77	May 2009 production
<b>H</b>	<b>C2685135H.bin</b>	<b>1.18</b>	<b>6676</b>	<b>January 2010 production</b>

Symptom Corrected / Changes	Suffix
1st Mass production	A
(Applies to Japan model only)	B
Other changes: The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No." Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.	C

Symptom Corrected / Changes	Suffix
Symptom corrected: Sometimes, the trailing edge of the master is folded. Note: To correct this, duct fan re-suction will be performed 400ms after the master is cut.	D
Other changes: 1. The master buffer duct open/close timing was changed (to improve the performance of the master clamp even when the master is curled slightly). 2. The timing for the master vacuum fan and blower fan motor were changed (same reason as #1 above).	E
Other changes: 1. The stop timing of the master eject roller was changed, which will further minimize master eject jams.	F
Other changes: 1. The length of the printable area on the drum was increased by 1mm at the trailing edge.	G
<b>Symptom corrected:</b> <b><i>The printed image is shifted due to the skewing of the master during the master wrapping process.</i></b>	H

Reissued: 17-Jun-10

**RTB Correction**

The items in bold italics have been corrected or added.

<b>Model:</b> PRIPORT HP4/HP4P		<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001h
<b>Subject:</b> HP4/HP4P firmware history		<b>Prepared by:</b> K. Yamamoto, Priport Service Planning Section	
<b>Classification:</b>	<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"/> Other (      )		
<b>Model Name:</b>			
HP4: Ricoh JP4500, Gestetner CP6244, RexRotary CP6244, nashuatec CP6244, Savin 3560DNP, Standard SD420, Lanier LDD145 HP4P (China only): Ricoh JP4510P, Gestetner 6254P			

The following is the firmware modification history of Priport product HP4/HP4P.

**FIRMWARE MODIFICATION HISTORY**

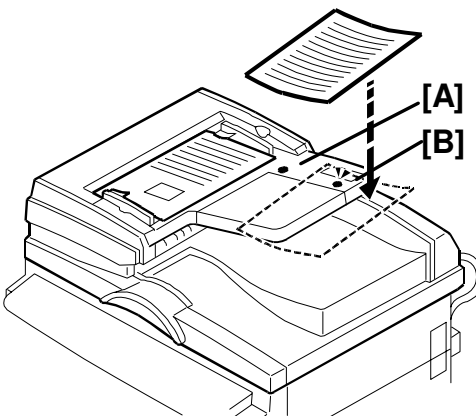
C2495114	File Name	Version	C.SUM	Production
K	C2495114K.bin	2.02	F7ED	Pre-production
L	C2495114L.bin	2.03	8F29	Pre-production
M	C2495114M.bin	2.04	5FCE	From the start of mass-production
N	C2495114N.bin	2.54	49A8	January 2004 production
P	C2495114P.bin	3.09	8DC6	March 2004 production
Q	C2495114Q.bin	3.10	9F5A	June 2004 production
R	C2495114R.bin	3.12	D2CF	October 2004 production
S	C2495114S.bin	3.13	864C	November 2004 production
T	C2495114T.bin	3.14	C8F9	December 2004 production
V	C2495114V.bin	3.17	C8AD	February 2005 production
W	C2495114W.bin	3.18	6BDF	February 2006 production
X	C2495114X.bin	3.19	5021	June 2006 production
Y	C2495114Y.bin	3.20	27C3	January 2007 production
<b>Z</b>	<b><i>C2495114Z.bin</i></b>	<b><i>3.23</i></b>	<b><i>5827</i></b>	<b><i>April 2010 production</i></b>

Reissued: 17-Jun-10

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001h

Symptom Corrected / Changes	Suffix
-	K
-	L
First mass production release.	M
<ol style="list-style-type: none"> <li>The opening/closing time of the master clamber has been changed from 225 mm/sec to 75 mm/sec. This decreases the load factor of the clamber motor and ensures E-00 (clamber error) does not occur.</li> <li>The timing of the master vacuum fans has been changed to ensure that the master separates and is wrapped around the drum correctly when the cutter cuts the master.</li> <li>Misdetection of master eject jam "B", "E".</li> </ol>	N
<ol style="list-style-type: none"> <li>Image shifting due to incorrect ADF paper loading: Firmware modified so that once the ADF detects a defined paper size with the left (innermost) paper length sensor [A], or neither of the sensors, it will not switch over to an "undefined size". if something is placed on top of the right (outermost) length sensor [B].</li> </ol> <p>Example: Machine will not switch to "undefined size" even when a sheet is placed on the right length sensor after it has detected an A4 LEF sheet.</p> 	P

Reissued: 17-Jun-10

**Model:** PRIPORT HP4/HP4P

**Date:** 30-Sep-03

**No:** R-C249-001h

Symptom Corrected / Changes	Suffix													
<p>2. New SP mode added: SP2-28 (Idling after less than 3 prints)/ SP2-29 (Idling after how many prints)</p> <p>SP2-28 (Idling after less than 3 prints) has been added to not let the ink leak from trailing edge of the drum.</p> <p>When the customer continuously prints small numbers (1 to 3 prints), ink leaks occur. This presses the drum idling roller against the inner surface of the drum screen after printing.</p> <p>When SP2-28 is “YES”, the idling motor does not operate <u>after less than 3 prints</u>.</p> <p>When SP2-28 is “NO”, the idling motor operates and you can select the number of prints (1 to 5) by SP2-29.</p> <p>Examine the table below.</p> <table><tr><th>SP2-38 (Idling after print)</th><th>SP2-28 (Idling after less than 3 prints)</th><th>SP2-29 (Idling after how many prints)</th></tr><tr><td rowspan="2">ON</td><td>YES</td><td>-</td></tr><tr><td>NO</td><td>1 to 5</td></tr><tr><td rowspan="2">OFF</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td></tr></table>	SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)	ON	YES	-	NO	1 to 5	OFF	-	-	-	-	P
SP2-38 (Idling after print)	SP2-28 (Idling after less than 3 prints)	SP2-29 (Idling after how many prints)												
ON	YES	-												
	NO	1 to 5												
OFF	-	-												
	-	-												
<p>3. New SP mode added: SP2-100 (Make master without printing)</p> <p>This function wraps a blank master around the drum.</p> <p>The ink on the drum may dry up at these times:</p> <ul style="list-style-type: none"><li>▪ The machine is not used for a long time</li><li>▪ The customer changes to a color drum that has not been used recently.</li></ul> <p>This might affect the print quality (Poor image: doubled image of previous print).</p> <p>Wrap a blank master around the drum after you print to not let doubled images of previous prints occur when the machine is not used for a long time.</p> <p>Procedure:</p> <ol style="list-style-type: none"><li>1) Access the SP2-100 (Make master without printing). Then press “OK”.</li><li>2) Press the “Start” key while holding down the “#”key.</li></ol>														

Reissued: 17-Jun-10

Model: PRIPORT HP4/HP4P

Date: 30-Sep-03

No: R-C249-001h

Symptom Corrected / Changes	Suffix
<p>4. New SP mode added: SP8-18 (Temporary security off)</p> <p>This function cancels "Security Mode" to prevent consumption of wasteful masters when the engineer repairs/inspects the machine.</p> <p>When this SP8-18 is "ON", the drum rotates to the home position. You can pull out the drum unit from the machine. At this time the color of the indicator on the operation panel turns over. Examine the illustration below.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> <p>Ready for Master Making/Printing</p> <p>100% A4</p> <p>Original Mode:Letter</p> <p>[ ± 0.0mm]</p> </div> <div style="font-size: 2em; margin-right: 20px;">➔</div> <div style="border: 1px solid black; padding: 5px;"> <p>Ready for Master Making/Printing</p> <p>100% A4</p> <p>Original Mode:Letter</p> <p>[ ± 0.0mm]</p> </div> </div> <p>Note:</p> <p>Set SP 8-18 "OFF" after you repair/inspect the machine.</p> <p>Supplementary explanation:</p> <p>"Security Mode" is used to prevent others from accessing your masters and making prints of confidential documents. You cannot press the "proof" key or the "Print" key, nor, pull out the drum unit when you set "Security Mode". You cannot clear "Security Mode" by turning off the main switch. The job will not occur when you set a new original and press the "start" key.</p>	P
<p>1. The data in the NVRAM is erased.</p> <p>The data in the NVRAM gets erased when you put the old NVRAM to the new main processing unit after you replace the new main processing unit including the new SP mode.</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 10px; text-align: center; width: 30%;"> <p><b>Old</b></p> <p>Main Processing Unit</p> <p>*SP?-1, 2, 3</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; width: 50px; margin: 0 auto;">NVRAM</div> </div> <div style="font-size: 3em; margin: 0 20px;">➔</div> <div style="border: 1px solid black; padding: 10px; text-align: center; width: 30%;"> <p><b>New</b></p> <p>Main Processing Unit (including the new SP mode)</p> <p>*SP?-1, 2, 3, <u>4</u></p> <div style="border: 1px dashed black; padding: 5px; margin-top: 10px; width: 50px; margin: 0 auto;">NVRAM</div> </div> </div>	Q

Reissued: 17-Jun-10

<b>Model:</b> PRIPORT HP4/HP4P	<b>Date:</b> 30-Sep-03	<b>No:</b> R-C249-001h
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Symptom Corrected / Changes	Suffix
<p>1. The machine will sometimes open and close the master clasper (see RTB #RC249011).</p> <p>Note:</p> <ul style="list-style-type: none"> <li>This was added to make sure the clasper stays closed in the correct position. If a service/sales representative closes it incorrectly (=lower teeth on the outside), this can cause a D-jam or noise during the master-making process.</li> <li>The machine opens/closes the clamp if: 1) the drum is not in the home position and 2) there is no master around the drum. Then, the actual open/close is performed when 1) the power is turned on, 2) the machine recovers from E-Saver mode and 3) when the front door is closed.</li> </ul>	R
<p>1. The brightness of the operation panel changes when the setting for "LCD Contrast" is changed (User Tools 2-4).</p>	S
<p>A misdetection of E-23 occurs when the machine is turned on.</p> <p>Note: E-23: "Master Eject Position Sensor (Drum HP) Error".</p>	T
<p>The status change time for the thermal head HP sensor was changed from 4.0sec to 6.0sec to ensure E-47 does not occur.</p> <p>Note: E-47: "Thermal head driving error".</p>	V
<p>1. A misdetection of E-43 occurs after printing.</p> <p>Note: E-43: "Printing Pressure Error"</p> <p>2. A new SP mode was added: SP2-95 (paper table standby pos.)</p> <p>Note: See RTB#RC249019 for details.</p>	W
<p>The amount of time that ink idling roller is pressed against the drum screen will depend on the paper size (e.g. shorter time for smaller sizes, longer time for larger sizes).</p>	X
<p>Other changes:</p> <p>The default value of Sp2-28 (Idling after less than 3 prints) was changed from "Yes" to "No."</p> <p>Note: This was changed because ink leaks can occur if most of the customer's print jobs are 1-3 pages in length.</p>	Y
<p><b>Symptom corrected:</b></p> <p><b><i>The ejected master wraps around the eject roller.</i></b></p>	Z