

Service Bulletin

SB Number:	SB 2AV-029	Issue Date: 22/04/2002
Subject:	Firmware upgrade	
Model:	KM-1530 / 2030, KM-1525 (+ Printing System (K))	

Please be informed of the following 4 sequential firmware version upgrades and its contents of changes.

FIRMWARE UPGRADE I.

IC, ROM MAIN	2AX68093	➔	2AX68094 (for KM-2030 only)
IC, ROM OPERATION UNIT 1 SP (EUR)	2AX6804A	➔	2AX6804B (for KM-2030 only)

Contents of changes F/W upgrade I.

Item	Remarks
The 'Scanner count' (= number of scanned originals) has been added to the 'Toner Coverage Report'.	
Software has been changed to prevent the occurrence of 'image fog' due to a decrease of light quantity when exposure lamp is lit continuously.	The scanning value is corrected after the continuous lighting of lamp for 20 sec or 60 sec.
Software has been changed so that the machine will temporarily stop when the maximum number of paper stack (setting value of U237 = 'adjusting the number of sheets on finisher) has been exceeded in printer mode.	Same control as in copy mode
Software has been changed so that the 'transmission setting' / 'original size selection' / 'transmission size selection' of the network scanner can be done even if the key card or key counter is pulled out.	
Software has been changed to correct following malfunction. Phenomenon 'Delete' or 'Format' is displayed as items of the printer menu even if writing action of a CF card or RAM disk is set as 'prohibited'.	Correction has been done so that 'Delete' or 'Format' will not be displayed if CF card or RAM disk is prohibited. This change is effective when using the printer firmware version 66.04.07

ROM details F/W Upgrade I.

ROM type	Seal No.	Check Sum (gang / pecker)	ROM speed
Main 1	2AX68094E	E501	100 ns
Operation (EUR)	2AX6804BV	9616	100 ns

Affected Machines F/W upgrade I.:

KM-2030: Production of August 2001 and later

Service Bulletin

FIRMWARE UPGRADE II.

IC, ROM MAIN 2AV6806E → 2AV6806F (for KM-1530)
 IC, ROM MAIN 2AX68094 → 2AX68095 (for KM-2030)

Contents of changes F/W upgrade II.

Item	Remarks
Software has been changed to correct following malfunction. Phenomenon If a fax reception image is output during a peak of fixing temperature in sleep mode, high temperature offset may be visible on the image.	The output timing of fax reception image has been changed so that it is not output when there is a peak in fixing temperature.
The version indication of the scanner firmware on the web page of network scanner has been changed.	Before change: 1.00.1 After change: 1.00.5

ROM info F/W Upgrade II.

ROM type	Seal No.	Checksum (gang / pecker)	ROM speed
KM-1530, Main 1	2AV6806FX	B24A	100 ns
KM-2030, Main 1	2AX68095F	F8B6	100 ns

Affected Machine Serial Numbers F/W upgrade II.:

KM-1530: 37033706 and later
KM-2030: 37040410 and later

FIRMWARE UPGRADE III.

IC, ROM MAIN 2AX68095 → 2AX68096 (for KM-2030 only)
 IC, ROM OPERATION UNIT 1 SP (EUR) 2AX6804B → 2AX6804C (for KM-2030 only)
 DIMM-HY SERVICE ASS'Y for Printing System (K) 3BK68032 → 3BK68033 Ver. 66.05.01

Both the copier and printer firmware has been upgraded so that print jobs existing of both single-sided and duplex original can be output. Copier firmware '2AX68096G' and printer firmware Ver.66.05.01' need to be upgraded at the same time.

The operation of machine differs depending on the firmware combination as follows.

Copier FW	Before 2AX68095F	After 2AX68096G
Printer FW		
Before 66.04.07	Print jobs existing of both single-sided and duplex originals cannot be output.	If memory overflow occurs during the output of a print job existing of both single-sided and duplex, an unusual image may occur or the machine may lock.
After 66.05.01	Print jobs existing of both single-sided and duplex originals can not be output.	Print jobs existing of both single-sided and duplex originals can be output without any problems.

Service Bulletin

F/W upgrade III.: software for operation section

Item	Remarks
The control method of LCD has been changed.	* Actual operation is not changed.

F/W upgrade III.: printer (Printing System (K)) firmware

Item	Remarks
In compliance with the change of ASIC on printer controller, the firmware has been changed to make distinction between old and new via the status page.	Existing ASIC: * mark is indicated next to version. New ASIC: * mark is not indicated. (as before) The operation is not affected by the change of ASIC on KM-2030 and Printing System (K).
When PDL is set as 'KPDL' in KX driver, some specific fonts might not be output.	Firmware has been corrected so that specific fonts are output normally when using KPDL on KX driver.
Particular fonts may be printed slightly too big (or thick) or too small (or thin).	Firmware has been corrected so that these font are output at the correct size.

F/W upgrade III. copier firmware details

ROM type	Seal No.	Checksum (gang / pecker)	ROM speed
Main 1	2AX68096G	8021	100 ns
Operation (EUR)	2AX6804CW	BA88	100 ns

Printer (Printing System (K)) firmware

Version 66.04.07 → 66.05.01

Affected Machine Serial Numbers F/W upgrade III.:

KM-2030: 37047561 and later
Printer (Printing System (K)): Production of February 2002 and later

FIRMWARE UPGRADE IV.

IC, ROM MAIN	2AV6806G	→	2AV6806H (for KM-1530)
IC, ROM MAIN	2AX68096	→	2AX68097 (for KM-2030)
IC, ROM MAIN	2BV68012	→	2BV68013 (for KM-1525)
IC, ROM OPERATION UNIT 1 SP (EUR)	2AX6804B	→	2AX6804C (for KM-2030)

Contents of changes F/W upgrade IV.:

1. Phenomenon

The user can set the bypass size in a user simulation mode to A4, B5, Letter size etc.. (all horizontal direction).

● If in this case, **the optional memory is not installed**, =>

THE leading edge timing will be greatly affected => image may shift for about 10 mm backwards out of position.

● If in above case, **the optional memory is not installed**, =>

AND copying is done with mixed sizes originals, the second paper fed through the bypass may cause JAM 95 code. This problem occurs especially with Letter size paper. With A4 size paper the problem may occur depending on each machine's situation.

Service Bulletin

Correction

Software has been corrected to prevent any image shift or occurrence of jam.

- For **KM-1530**: this phenomenon has already been solved with F/W upgrade 2AV6806F to 2AV6806G
=> see **SB 2AV-025**.
- For **KM-2030** the mentioned phenomenon may only arise with Main version 2AX6801DZ or later.
- As for **KM-1525**, the mentioned phenomenon does not arise.

2. Software has been changed so that if fax is outputting while machine is in sleepmode and a jam may occur, the machine LED's will start blinking indicating a machine error.

This goes not only for jam situations, but also for 'cover open', C-calls, toner empty etc.. i.e. situations in which machine cannot continue with outputting.

3. Software has been changed so that it is possible to change the fixing control temperature during bypass copying.

A setting item has been added to **U165** (= 'Fixing control temperature setting') as follows.

For KM-1530 / 1525

	Setting contents	Setting range	Default value
Step 1	Primary fixing temp. stabilization	115 ~ 146 (°C)	135
Step 2	Secondary fixing temp. stabilization	135 ~ 190 (°C)	160
Step 3	Normal fixing control stabilization (without bypass) CHANGE	145 ~ 220 (°C)	180
Step 4	Fixing control range when copying small size paper	0 ~ 50 (°C)	0
Step 5	Normal fixing control stabilization (with bypass) ADD	145 ~ 220 (°C)	180

Step 1 to 5 can be set by moving the exposure lights to the right.

For KM-2030

	Setting contents	Setting range	Default value
1 ST TEMP	Primary fixing temp. stabilization	115 ~ 146 (°C)	135
2 ND TEMP	Secondary fixing temp. stabilization	135 ~ 190 (°C)	160
COPY TEMP	Normal fixing control stabilization (without bypass) CHANGE	145 ~ 220 (°C)	180
A4R TEMP	Fixing control range when copying small size paper	0 ~ 50 (°C)	0
BYP TEMP	Normal fixing control stabilization (with bypass) ADD	145 ~ 220 (°C)	180

ROM info F/W Upgrade IV.

ROM type	Seal No.	Checksum (gang / pecker)	ROM speed	
ROM Main 1	2AV6806HZ	F9A2	100 ns	KM-1530
ROM Main 1	2AX68097H	F8B6		KM-2030
Operation (EUR)	2AX6804DX	D103		KM-2030
ROM Main 1	2BV68013E	2072		KM-1525

Affected Machine Serial Numbers F/W upgrade IV.:

KM-1530: 37035322 and later
KM-2030: 37050758 and later
KM-1525: 3011689 and later