

<b>SB Number:</b>	<b>SB 2GR-007</b>	<b>Creation Date:</b> 17/04/2007
<b>Subject:</b>	<b>Firmware upgrade, Ver. 2.03B LARGE UPDATE</b>	
<b>Model:</b>	<b>KM-3050/4050/5050, Fax System (M)</b>	

## Content of change in Main Unit Firmware

No.		Item	Contents
1	COPY	Preview function	A 'preview' button and field is added. Before copying the user can view a preview of the document on the scanner.
2	FAX	Multi port Fax	Support is added for the installation of two fax systems. Should you install 2 FS's you can send and receive faxes at the same time.
3	FAX	Internet Fax function	Support added for Internet FAX T.37 Simple/Full Mode
4	FAX	Polling sending and receiving	Able to send and receive using polling transmission
5	FAX	2 in 1 receiving function	The following options are added: <ul style="list-style-type: none"> <li>– 2 page documents sent in A5E are printed to 1 page A4R;</li> <li>– 2 page documents sent in Statement size are printed on 1 page Letter size.</li> </ul>
6	FAX	Received faxes are output in multiple sets	New option: User can set the option to have the received faxes from all or specified senders (Specified by their fax #) output in one or two sets.
7	FAX	Instant sending for jobs scheduled in the timer.	
8	FAX	Memory for forwarding is expanded	Forwarding numbers: (Old) One number → (New) multiple numbers Forwarding conditions: When specifying FAX numbers, the user can now specify up to 5 numbers
9	FAX	File name when forwarding memory	Its now possible to add the destination's fax number to the file name when forwarding/sending a fax.
10	FAX	Remote management of memory forwarding conditions over PC	Registering the memory forwarding conditions can now be done from the Command Center.
11	FAX	Attaching the transmitted image to the transmission report is now optional.	Able to set ON /OFF to select whether attached the transmitted image (First page) to the transmission report.
12	FAX	Added TX/RX report and scheduled TX job report (Service support by maintenance mode)	Changed the menus to the maintenance mode so that the TX/Rx report data can be output even if the internal HDD is damaged (The data which can be output is the back-up TX/RX data stored in the Fax board) -Added "FAX REPORT (BACK UP)" button to U670. TX/RX report (Backup) (For both FAX/i-FAX) (printing the records of the most recent 200 TX and 200 RX transmission) -TX scheduled job report(FAX) --Prints the records of the 200 most recent scheduled TX jobs -Added U671 "Clear FAX Report (Back Up)Data" ---Cleaning the data of FAX Report (Back Up)
13	Send	Scan to Multi send & Print	Added the functionality of simultaneously printing with Multi send
14	Send	Scan to Multi send & Box Save	Added the functionality of simultaneously storing in the send dialogue-box and Multi send.

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15	Send	ACS (Auto Color Selection) for high compression PDF is added	<p>When more than 1 GB memory is installed, ACS will operate automatically for high compression PDF. Also, the following menus have been added when high compression PDF is added.</p> <ul style="list-style-type: none"> <li>Added "High comp. PDF Auto Color" to "Send setting" in SYSTEM MENU;</li> <li>The above ACS can be achieved by setting it ON (Default : OFF)</li> </ul> <p>Together with this, the following menus were added in order to set the color threshold:</p> <ul style="list-style-type: none"> <li>Added "Auto Color Correction" (Range 1-5 Default : 3) to "Adjustment/Maintenance" in SYSTEM MENU</li> </ul>
16	Send	Selecting the type of the high compression PDF from the user setting screen.	The type of high compression PDF, "Comp priority", "Standard", or "Quality priority" can be selected or changed from the user setting screen (Tab on the operation panel, which were previously selected from the system menu).
17	Dialogue-box	Displayed the image previews in the dialogue-box	An image preview in the user's fax dialogue can be displayed (a 'preview' button has been added)
18	Dialogue-box	Overwriting data stored in the JOB dialogue-box is prohibited.	Because the serial number is part of the file name when printing a file through private print from the JOB dialogue: overwriting is prohibited.
19	Security	Encrypted transmission SSL (HTTPS,IPPS)	<p>Encrypted transmission is supported as follows:</p> <ul style="list-style-type: none"> <li>When registering in the command center, encrypted transmission is possible.</li> <li>Encrypted transmission print is possible using IPP over SSL</li> </ul>
20	Panel	Improvements when pressed the Stop key during the copy	The cancel screen appeared when the Stop key was pressed and would continue to be displayed even if the Reset key was pressed.
21	Panel	Additional improvements when pressing the Stop key	
22	Panel	Changed the setup of Duplex selection in the Quick Setup dialogue	Changed from 6 buttons without discription to 4 buttons with descriptions
23	Panel	Reduced the number of screens in the dialogue box	The confirmation screen when setting the layout such as Duplex, Staple, etc. has been removed.
24	Panel	Changed the title of MP tray reservation button	The title of button; MP Tray Reservation → MP Tray Setting
25	Panel	Using numeric keys even when the keyboard appears on the screen.	Numeric keys can now be used even when the keyboards appears on the screen.
26	Panel	Changed the default keyboard screen	The keyboard on the screen will have the buttons of "@", "/", "_", ".".
27	Panel	Added the reference button for accounting	After entering the personal accounting code, that user's current counter can be displayed.
28	FAX	Changed the specifications of the FAX backup kit	It is possible to store the FAX transmission records (If executing "FAX IMAGE" in U933, it can be output)
29	System	Changed the default value of Sleep Timer	The default value of the Sleep Timer has been changed from 15 minutes to 8 minutes (To support BAM2007/ Energy Star 2007).
30	FAX	Improved the image quality of "Normal" resolution for FAX	When setting the scanning resolution to "Normal" from the operation panel, it will scan with "Fine" and reduce the size of data from "Fine" to "Normal" when sending.
31	Maintenance	Threshold of single/double counting is added (U253)	A menu "DBL CNT(FOL/LGL)" has been added to maintenance mode U253 so that Folio/Legal size will be counted as double count.
33	Maintenance	The count display listed on the upper part of the status report is changed.	The display and value of the count value listed on the upper part of the maintenance report has been changed from Total count to Life count.

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34	Scanner	Digital signature support	-
35	Maintenance	Added serial numbers and counter display to the Event Log report for service	The counter will be displayed at the lower left side of Event Log and the serial numbers will be at lower right side.
36	System	Supporting USB host IF block	A switch to set the USB host itself to either Disable or Enable has been added (This can be set only in COMMAND CENTER.)
37	FAX	Changed the default value of FAX TX/RX report from Off to On	-
38	Maintenance	Able to eject the paper to the left tray with FACE DOWN	Added the option to eject paper to the left tray with Face Down
39	Maintenance	Added information about the amount of toner remaining to SMTP mail notification	-
40	System	Changed the NetWare protocol default from ON to OFF	-
41	Maintenance	The counter is now displayed in the user status page.	-
42	Maintenance	<p>A received fax image can now be printed using other machines when the FAX backup kit is installed</p> <p>If the Data security Kit is installed (Encryption), this will not work.</p>	<p>If the Data Security Kit is not installed, the received fax image of BU-10 can be output using other machines.</p> <p>-Put a CF card with the backup data into another machine.</p> <p>-Ignore errorcode C0700, and go into maintenance mode and execute "RECOVERY CF" in U933. (When executed, the machine will be ready to output).</p> <p>-If printing, execute "FAX IMAGE" in U933</p> <p>*If using the CF card in the original machines, C0700 will light up after inserting the CF card, but please ignore it and go into maintenance mode to execute "RECOVERY CF" in U933.</p>
43	System	LAN Interface setting have been added.	LAN Interface setting have been added to the Command Center (Auto/10HALF/10FULL/100HALF/100FULL)
44	System	A function that allows for the user to change the order of print waiting JOB has been added	"Priority override" mode has been added so that the priority can be changed one by one in print waiting JOB
45	Improvement	Measure against garbled characters in USB memory when outputting PDF file.	Some fonts may be garbled when printing PDF files from USB, so this is corrected.
46	Improvement	Print macro/CF failure corrected	
47	Improvement	Corrected a PRESCRIBE Command failure	<p>DXPG of PRESCRIBE Command may not perform as expected.</p> <p>DETAILS:</p> <p>Printing on page 1 and 2 should be printed on the side specified by DXPG, however, they were printed on the same side.</p>
48	Improvement	Measure against the network error when changing the setting in Command Center	When changing any setting in Command Center, the network was sometimes disconnected (When turning the machine OFF/ON, it will resume as normal)
49	Improvement	Measure against the error from Fax forwarding timer.	<p>Sometimes Fax forwarding timer cannot perform as required.</p> <p>DETAILS:</p> <p>When the current time is 23:00, and the starting time is set to 22:00 and the finishing time to 4:00, the faxes will not be forwarded. this is corrected.</p>
50	Improvement	Measure for PDF Direct Print error	If output the specific data with PDF Direct Print, KPDLE error occurred. Therefore, it is corrected.
51	Improvement	Network authentication support	In network authentication, if inputting "\$" "%" "\" as the user password, they are not authenticated. Therefore, it is corrected.

No.		Item	Contents
52	Improvement	Added an "Execute" button for U004 "Displaying the machine number"	An "Execute" button has been added so that machine number can be registered to the new EEPROM after being replaced and/or newly installed. -Right after the EEPROM is replaced, an error will be displayed. Go into maintenance mode in that condition and press the "Execute" button in U004. After this the machine will be ready.
53	Improvement	Measures against an LDAP search error.	LDAP search result may not show any addresses when it should.
54	Improvement	Measures against a problem with PCL data in AS-400	When output PCL data from AS-400, some parts may be garbled. This has been corrected.
55	Improvement	Changed blinking LED during F/W upgrade	The blinking behaviour of the LED during F/W upgrade has been changed so that it will not be misunderstood as error. <b>Before change:</b> The error LED on the operation panel and red LED at the left side of the machine were blinking <b>After change:</b> Only the Memory LED (Green) on the operation panel will be blinking during F/W upgrade.
56	Improvement	The productivity when outputting 2 pages/ 2-sided/ ejecting to tray A has been improved.	When printing small size paper (B5/A4/LETTER) and ejecting it to tray A of DF-710 with shift or one staple, sometimes the productivity is lower than the previous models/machines. This has been changed.
57	Improvement	Measure for JAM when FOLIO is the maximum size.	When making 'FOLIO' the maximum size (358mm) and ejecting to the inner finisher, JAM 81 might occur.
58	Improvement	Preventing the PF750 (3000 sheet feeder) from being separated from the main unit when turning ON the power	If the power is turned OFF whilst operating, the next time when turning the power ON the PF750 might no longer be connected (software level).
59	Improvement	CF26F prevention when pulling out key card is added.	"CF26F" occurred when pulling out the key card during continuous print.
60	Improvement	The error detection of C6020 "Abnormally high fuser unit thermistor temperature" has been improved	To reduce the chance of the thermistor error detection caused by noise (which is a factor/parameter of C6020) the sensor thermistor has been changed as follows: <ul style="list-style-type: none"> <li>- When determining the temperature, it will be the average of all sample data without the minimum and maximum readings;</li> <li>- The conditions under which C6020 lights up have been changed: from 40 msec detection of a temp. higher than 250 °C to 480 msec detection;</li> <li>- Now, the machine will wait for about 2 sec to detect the temperature when turning ON the power or waking up from sleep mode. (Need to wait for the thermistor to become stable right after starting);</li> <li>- When deciding the range of the temperature change, the unnatural values have been eliminated (EX: Ignore temperatures not within the -40 °C to 40 °C range after 160msec)</li> </ul>
61	Other	HDD 80GB support	

## Firmware specifications

Type	Program number	Check SUM	Version	Remarks
MAIN	S2GR_2000008025	-----	008025	← New upgrade
MMI	S2GR_7000009001	-----	009001	← New upgrade
ENGINE	S2GR_1000006002	-----	006002	← New upgrade
SCANNER	S2GR_1200003001	-----	003001	

## Contents of change in FAX firmware

1	Remote	Remote diagnostic function	-
2	transmission	Added a timeout process when the controller hangs	If the controller firmware hangs during receiving, the line might not cut. Therefore, a timeout process has been added in the FAX board (FAX board will be reset if the same specific signal from the controller lasts for 30 sec in the fax board)
3	transmission	Changed the modem control (Added Tap holding/AGC lock control)	<p>U01160 "Transmission error" might occur due to echo resistance. Therefore, software SW's have been added as follows so that AGC lock and tap hold can be performed when receiving an image with non-ECM</p> <p>Software SW082 bit6</p> <p>V.17 RX AGC lock 1:Perform 0: Not perform</p> <p>Software SW082 bit5</p> <p>V.17 RX Tap hold 1:Perform 0: Not perform</p> <p>Software SW082 bit4</p> <p>Less than V.29 RX AGC lock 1:Perform 0: Not perform</p> <p>-The default of above software SW for all spec is "1:Perform"</p> <p>-When upgrade the fields machines to this version, this is not shown unless executing U601 "Initialize"</p>
4	transmission	The changes in receiving mode setting are not applied right after they were changed.	
5	transmission	An error occurred when sending A3 and B4 size originals	When sending A3 and B4 size originals, they might be scaled down to A4 size even if the destination machine can receive A3. This has been corrected.
6	transmission	Measure for RX error that occurred with V.34	When receiving with V.34, a transmission error (Error code: E01128/E01115) sometimes occurred.
7	transmission	Measure against a panel lock up during FAX F/W upgrade.	If the power is turned OFF during FAX F/W upgrade, C0830, which should light up, did not light up and the machine might be locked showing KYOCERA Logo on the screen. This has been corrected.

Type	Program number	Check SUM	Version	Remarks
FAX APL	-----	-----	3KH_5100005008	← New upgrade
FAX BOOT	-----	-----	3KH_5000005004	← New upgrade
FAX BOOT/APL MIX F/W	S3KH_5500005008	-----	-----	← New upgrade

### Field measure for both firmwares:

When the abovementioned phenomena occur or whenever necessary, please upgrade the firmware versions. In doing so, please upgrade the firmware for both the main unit and Fax at the same time. If the end-user upgrades the firmware, please inform the users the machine should not be turned off while the data is still in the process of being written or processed.

### Serial number information:

From April, 2007 production onwards this firmware will be installed at the factory.