

<b>SB Number:</b>	<b>SB 2H7-034</b>	<b>Creation Date: 26/04/2010</b>
<b>Subject:</b>	<b>Firmware upgrade (version 7.01)</b>	
<b>Model:</b>	<b>TASKalfa250ci/300ci/400ci/500ci</b>	

1. Background on the image due to lower toner charge capacity.
2. Background on the image when operating at half speed mode.
3. Improper toner empty detection.
4. The fuser heat recovery stand-by time has been changed.
5. Shifted registration value due to the whitened transfer belt surface.
6. Change of the cooling control.

<b>Classification</b>	<input type="checkbox"/> Entire stock rework	<input type="checkbox"/> In-field modification at next visit	<input checked="" type="checkbox"/> In-field modification by case	<input type="checkbox"/> No modification necessary
<b>Field measure</b>	When the above mentioned phenomena occur, please upgrade all the firmware to the latest version at the same time.			

#### Firmware

MAIN FRAME	Fixed No.	----	V6.00	V6.03	V7.00	V7.01
MAIN *1	2H7_2F00	<---,---	006.043	006.060	007.048	<---,---
MMI *1	2H7_7000	<---,---	006.029	006.031	007.390	<---,---
LANGUAGE BR(OPTION)	2H7_81BR	<---,---	001.011	<---,---	001.016	<---,---
BROWSER	2H7_F000	001.015	<---,---	<---,---	<---,---	<---,---
ENGINE (for 400ci/500ci) *2, *3	2H7_1000	<---,---	010.003	012.003	013.001	014.002
ENGINE (for 250ci/300ci) *2, *3	2JZ_1000	<---,---	010.004	012.003	013.001	014.002
SCANNER	2H7_1200	<---,---	<---,---	005.002	<---,---	<---,---
MOTOR MAIN	2H7_1400	<---,---	<---,---	<---,---	<---,---	003.003
H VLT MAIN	2H7_1600	001.014	<---,---	<---,---	<---,---	<---,---
SLEEP MAIN	2H7_1800	<---,---	<---,---	<---,---	<---,---	002.001
FAX BOOT	3MB_5000	001.016	<---,---	<---,---	<---,---	<---,---
FAX APL	3MB_5100	003.001	<---,---	<---,---	<---,---	<---,---
FAX IPL	3MB_5200	001.016	<---,---	<---,---	<---,---	<---,---
SOLUTION (DBA)	J00_E000	<---,---	001.042	<---,---	003.002	<---,---
ENHANCEMENT	Fixed No.	----	V1.07	V1.08	V1.09	<---,---
DP-750/760, 760/760B	3LK_9500	<---,---	007.004	008.005	<---,---	<---,---
PF-720(2 cassette)	3LM_9000	002.001	<---,---	<---,---	<---,---	<---,---
PF-760(3000)	5H8_9000	<---,---	<---,---	003.002	<---,---	<---,---
DF-780(1000)	3JA_9200	<---,---	<---,---	004.006	006.001	<---,---
DF-760(3000) MAIN	3LT_9200	<---,---	004.004	005.003	<---,---	<---,---
DF-760(3000) MIDDLE	3LT_9600	<---,---	005.001	006.001	<---,---	<---,---
MT-720(3000) MAIL BOX	3LW_9800	<---,---	<---,---	003.001	<---,---	<---,---

## Firmware notes

- \*1. Upgrade the MAIN and MMI firmware at the same time, to prevent error code CF000.
- \*2. Please note that the setting of maintenance mode U327 (setting cassette heater control) will return to the default value OFF, when upgrading the firmware to version 004.001 from an older version. (See service bulletin 2H7-006 for further details)
- \*3. Perform AC calibration at maintenance mode U464 (set ID adjustment mode) after upgrading the engine firmware to version 006.009 or higher.

## Serial numbers of affected machines

Type	Serial number
TASKalfa250ci	QJK9Z11560
TASKalfa300ci	QJE9Z02977
TASKalfa400ci	QJA9Z01847
TASKalfa500ci	QHW9Z01098

Machines produced after the above mentioned serial numbers, should not have the above mentioned phenomena.

Item	Contents
1	<p>Background on the image due to lower toner charge capacity.</p> <p><b>Phenomenon</b> Background may occur on the image</p> <p><b>Cause</b> After endured printing the toner charge capacity is lowered and the toner refill speed is changed according to the developer drive time.</p> <p><b>Solution</b> The modes at maintenance mode U325 (Setting the paper interval) will be internally set as follows:</p> <p><b>TASKalfa400ci/500ci</b> Mode1: 0 to 3333 minutes Mode4: 3334 to 6666 minutes Mode5: 6667 minutes</p> <p><b>TASKalfa250ci/300ci</b> Mode1: 0 to 4333 minutes Mode4: 4334 to 8666 minutes Mode5: 8667 minutes</p>
2	<p>Background on the image when operating at half speed mode.</p> <p><b>Phenomenon</b> Background may occur on the image at half speed mode.</p> <p><b>Cause</b> The T/C sensor read value is different between the full speed mode and half speed mode. The Vcont is adjusted at half speed mode, however the toner may be refilled in excess in case the adjustment timing does not fulfill the adjustment trigger.</p> <p><b>Solution</b> The new adjustment trigger has been added, according to the Vcont variation.</p>

3	Improper toner empty detection.	<p><b>Phenomenon</b> Toner empty may be improperly detected, due to improper toner consumption of 5% coverage conversion to the dot coverage.</p> <p><b>Solution</b> The tolerance of the dot coverage conversion has been improved.</p>
4	The fuser heat recovery stand-by time has been changed.	<p>The stand-by time for the fuser heat recovery can be set at maintenance mode U161 (Setting the fuser control temperature) as follows:</p> <p><b>+1:</b> The stand-by time for the secondary feed for normal paper after thick paper, (No need to lower the fuser temperature). This mode is for machines mainly used to print text. When using this mode for high quality images, glossy images and/or high temperature offset images may be reproduced depending on the stand-by time.</p> <p><b>0:</b> This is the standard mode, and should be used when using the machine to reproduce solid images.</p>
5	Shifted registration value due to the whitened transfer belt surface.	The registration value may be shifted depending on the whitened condition of the primary belt surface. To reduce the affect of the whitened transfer belt, the colour registration pattern has been changed.
6	Change of the cooling control.	The fan control has been changed to drive the fan at full speed mode in order to lower the temperature to 36 °C at the ready condition.