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Technical Information:

# Card Save Function Procedure for Storing Print Data onto an SD Card White Paper

Document Version 1.0

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#### Version history:

Version	Issue Date	Revised item
1.0	Nov. 15,2007	Initial release

#### NOTE:

Throughout this document you may see references such as 04A (2004 Autumn) or 05S (2005 Spring). You will only see an A (Autumn) or S (Spring) attached to the last two digits of a year.

These two seasons reflect the time period the machines were manufactured.

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## 1. Introduction

A print capture can be made in many ways. This document will describe the Card Save function. Using Card Save, a print capture can be written directly from the printer to an SD Card.

## 2. Target Readers

This document is intended for the support staff of Ricoh family group companies and their subsidiaries.

## 3. Target Models

This document applies to Fall of 2005 or later models.

#### 4. Requirements

A standard SD Card is required.

## 5. Card Save Overview

#### 5-1 Card Save

The Card Save function is used to save print jobs received by the printer on an SD card with no print output. Card Save mode is toggled using printer Bit Switch #1-4. Card Save will remain enabled until the SD card becomes full, or until all file names have been used.

Captures are stored on the SD card in the folder /prt/cardsave. File names are assigned sequentially from PRT00000.prn to PRT99999.prn. An additional file PRT.CTL will be created. This file contains a list of all files created on the card by the card save function.

Previously stored files on the SD card can be overwritten or left intact. Card Save SD has "Add" and "New" menus.

Card Save (Add): Append files to the SD Card. Do not overwrite existing files. If the card becomes full or if all file names are used, an error will be displayed on the operation panel. Subsequent jobs will not be stored.

Card Save (New): Overwrite files in the card's /prt/cardsave directory.

#### 5-2 Limitation

Card Save cannot be used with PJL Status Readback commands. A PJL Status Readback will not work. In addition they will cause the Card Save to fail.

Card Save Function

#### 6. Procedure

#### 6-1 MFP

Step 1) Turn the main power switch OFF.

Step 2) Insert the SD card into the service slot of the controller board. Then turn the power ON.

**NOTE:** To determine which slot is the service slot, please refer to the service manual.



Step 3) Enter SP mode.

Step 4) Select the "Printer Sp".

Step 5) Select SP-1001 "Bit Switch".

8		NOV 7,2007 9:40AM
SP Mode(Service) Open All	Close All	SP Direct X-XXX-XXX Exit
SP-1XXX Service Mode	Group	PRINTER : SP-1-001-001
1001 🕨 Bit Switch		Bit Switch
1003 🕨 Crear Setting	103 for	Bit Switch i Settings
1004 Print Summary	Ulno &	
1005 Display Version	T	(7) 00000000 (0) [00H]
1006 Sample/Locked Print		
1101 🕨 Data Recall	Page	Initial 00000000 LOOHJ
1102 Resolution Setting	Group	↑Prev Page ↓Next Page

**Step 6)** Select "Bit Switch 1 Settings" and use the numeric keypad to turn bit 4 ON and then press the "#" button to register the change. The result should look like: **00010000**. By doing this Card Save option will appear in "List/Test Print" menu.

If the error occurs again, call service.			NOY	7,2007 9:41AM
SP Mode(Service) Open All	Close All	SP D	pirect $\chi - \chi \chi \chi - \gamma$	(XX Exit
1001 🔻 Bit Switch	Group	RINTER : SP-	1-001-001	2
Bit Switch 1 Settings	Page	Bit Switch Bit Switch 1 Set	tings	
2 Bit Switch 2 Settings				
3 Bit Switch 3 Settings	Line			10701-0050 (1014)
Bit Switch 4 Settings	V.	(7)	00010000 (0)	[10H]
5 Bit Switch 5 Settings	T	Initial	0000000	Гоонј
Bit Switch 6 Settings	Page	in crui		
7 Bit Switch 7 Settings	Group		<b>↑</b> Prev Page	<b>↓</b> Next Page

Step 7) Press "Exit" to exit SP Mode.

**Step 8**) Press the "User Tools/Counter" button.

User Tools (Counter
• Сору
Document Server
• Facsimile
Printer

Step 9) Select "Printer Features".

<u>ට</u> ල් System Settings	Copier / Document Server Features	<b>පේ</b> Español
Maintenance	Printer Features	

**Step 10)** Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (Add) or Card Save (New).

not connect to the ser	ver for remote diagnost	ics. Contact admini	strator.		NOV	,2007	9:42A
C Printer Features			1/2	<u> </u>		Exit	
lect one of the followi	ng items.						00
List / Test Print	Maintenance	System	Host Interface	PCL Menu	PS Menu		
Multiple l	.ists		PS Cor	nfig. /Font Page			
Config. F	'age		PDF Config. / Font Page				
Error Lo	)g		l	lex Dump			
Menu L	ist		Card	Save(Add)			
PCL Config. / I	Font Page		10. 1	1/2	A Prev.	V	Next.

3.139.166.219					NOV	7,2007	9:42A
🕒 Printer F	eatures		1/2	<u> ( )</u>		Exit	
elect one of the followi	ng items,						
List / Test Print	Maintenance	System	Host Interface	PCL Menu	PS Mer	nu	
Card Save	(New)					25 J	
Card Save	(New)						
				0.40	4 Desci		20.00
				272	Prev.		i wai

Step 11) Press "OK" and then exit the "User Tools/Counter" menu.



Step 12) Press the "Printer" button.



Step 13) Card Save should be displayed in the top left of the display panel.

Carest connect to the se	rver for remote diagnostics. I	Contact admin	istrator.				NOV	7,2007	9:43AN
→ Online									
<b>i</b> ⊯ Offline	► Paper Tray Status	1 ⊞⊒ D 8½×11	2⋓ D A 4	3⊌ 0 A 4	⊤⊎ [] 8½×11	u <b>⊥ 1</b> Cstm Size Thick Paper 2			
Form Fored	► Job Lists & Error Log								
Job Reset	Locked & Sample Prin	: Job List		Error Log		Sp	iooling J	ob List	

Step 14) Send a job to the printer. The Communicating light should start blinking as shown below.



**Step 15)** As soon as the printer receives the data, it will be stored on the SD card automatically with no print output. Nothing is displayed on the screen indicating that a Card Save operation was successful. **Step 16)** Press "Offline" and then the "Clear/Stop" button to exit Card Save mode

Сал	Cannot connect to the server for remote diagnostics. Contact administrator.						NOV	7,2007	9:43AM	
С	ard Save									
Î	<b>⊢</b> Online		a	2	lit in			6		
	<b>i</b> ⊷ Offline	► Paper Tray Status	1 ₩₩ D 8½×11	20 D A 4	3⊌ D A4	⊺⊎ D 8½×11	u <b>⊉ 1</b> Cstm Size Thick Paper 2			
Ľ	Form Fored	Job Lists & Error Log				······				
	Job Reset	Locked & Sample Prin	t JOD LIST		Error Log		Sp	ooring .	JOD LIST	

**Step 17)** Change the Bit Switch Settings back to the default **00000000**. Press the "#" button in the numeric keypad to register the changes.

Step 18) Remove the SD card after main power switch is turned OFF.

Card Save Function

#### 6-2 LP

Step 1) Turn the main power switch OFF.

Step 2) Insert the SD card into the service slot of the controller board. Then turn the power ON.



**NOTE:** To determine which slot is the service slot, please refer to the service manual.

Step 3) Enter SP mode.

Step 4) Select "Service Menu".

Step 5) Select SP-1001 "Bit Switch".



**Step 6)** Select "Bit Switch 1" and turn bit 4 ON. The result should look like: 00010000. By doing this Card Save option will appear in "List/Test Print".

SP1001 - 001	
Bit Switch 1	

Sw#1	00010000	
Bit4		

Step 7) Push the "Escape" button and select "End" to exit SP Mode.

SYSTEM ver 1.06 3.End

Step 8) Press the "Menu" button and then select "List/Test Print".



**Step 9)** Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (New) or Card Save (Add).



**Step 10)** To enable the newly configured settings, press the "#" button and then press the "Escape" button to exit the "List/Test Print" menu.



Step 11) Send a job to the printer.

**Step 12)** As soon as the printer receives the data, it will be stored on the SD card automatically with no print output. Nothing is displayed on the screen indicating that a Card Save operation was successful.

Step 13) Press the "Online" button and then the "Escape" button to exit Card Save mode.

Step 14) Change the Bit Switch Settings back to the default 00000000.

Step 15) Remove the SD card after main power switch is turned OFF.

# 7. Error Messages of MFP and LP

Card Save error messages:

Init error: A card save process (i.e. card detection, change to kernel mode) failed to initialize.
Card not found: Card cannot be detected in the slot.
No memory: Insufficient working memory to process the job.
Write error: Failed to write to the card.
Other error: An unknown error occurred.

If an error occurs, pressing "OK" will cause the device to discard the job and return to the ready state.