

These models are similar to the Rn series of printers and copiers.





No additional notes

Slide 3



Differences from Previous Models
Rm-MF1 vs Rn-MF1/MF2

	Rn-MF1	Rn-MF2	Rm-MF1
PPM (A4)	28	28	28
ADF	ADF	ADF/ARDF	ADF
Scanner	CCD	CCD	CIS
Handset	No	No	China only
Display Panel	2 lines	2 lines	4 lines
Controller and Engine Boards	2 boards	2 boards	1 board
PSU and High Voltage Power Pack	1 board	1 board	2 boards
Duplex	Some models	Some models	All models
Output Capacity	125 sheets	125 sheets	50 sheets
Wireless LAN	No	No	Some models
Machine Life	200k	350k	200k
AIO Refill	No	No	Some models (China only)
Optional Tray	Yes	Yes	No
PDL	PCL/PS3	PCL/PS3	PCL

	Rn-P1	Rn-P2	Rm-P1
PPM (A4)	28	28	28
Display Panel	No	2 lines	No
Controller and Engine Boards	2 boards	2 boards	1 board
PSU and High Voltage Power Pack	1 board	1 board	2 boards
Duplex	Some models	Some models	All models
Output Capacity	125 sheets	125 sheets	125 sheets
Wireless LAN	No	No	Some models
Machine Life	200k	350k	200k
AIO Refill	No	No	Some models (China only)
Optional Tray	Yes	Yes	No
PDL	PCL/PS3	PCL/PS3	PCL
SOM (Smart Organizing Monitor)	Yes	No	Yes



















□ The Rn series has an optional paper tray. The Rm series does not.







PM Intervals There are no PM parts. There are three "yield parts", but give



No additional notes

Slide 16

Note to Service Personnel

- Yield parts are rated to last for 120 K, which should be longer than the machine's rated lifespan of five years.
- For customers who are very heavy users, it may be necessary to change yield parts during the life of the machine.
 - After installing new yield parts, the counters must be reset.
 - The counter reset procedure is not a user function and must be done by a trained technician.
 - See the replacement procedures in the FSM (Field Service Manual) for the reset procedures for each yield part.

Slide 17































□ This section is different from the Rn series.









□ This section is different from the Rn series.




Rm-MF1/Rm-P1 Training





No additional notes



□ This section is the same as the Rn series.





スライド 40

オブライエン11 Pix for china - next slide also オブライエン エドモンド, 2013/02/25





□ This section is the same as the Rn series.









□ This section is the same as the Rn series.















Note that the type B machine monitors for toner end even if 'Continue Printing' is selected. This means that the user can switch between 'Stop Printing' and 'Continue Printing' at any time, and if toner end occurs when 'Stop Printing' is selected, then the toner end alert will occur.

Toner End Option [T	ype B Models only] (1)
 When the Toner End Option is set to 'Stop Printing' (default): The toner near end and toner end alert functions are enabled. The toner near end alert will appear when toner supply runs low, and then about 50 pages can be printed until toner end. A toner level progress bar is displayed on the configuration page (and for the Rm-P1 it can also be seen with SOM). 	
Supplies Status Print Cartridge Fusing Unit Paper Feed Roller Transfer Roller Toner End Option :Stop Printing	Celor Status 0 50 100 Black Status 4 117 117
Configuration Page	SOM
Slide 53	

The configuration page for the Type A models does not have the Toner End Option setting.

Toner End Option [Ty	pe B Models only] (2)
 When the Toner End Option is s The toner level in the AIO is n The machine will continue prin because the toner near end a The Configuration Page (and three asterisks, and no inform remains. However, SOM will s is run out. 	et to 'Continue Printing': ot monitored. nting even after toner runs out nd toner end alerts will not appear. SOM for the Rm-P1) will display ation about how much toner show a red 'Toner End' icon if toner
Supplies Status Print Cartridge xxx Fusing Unit **** Paper Feed Roller **** Transfer Roller **** Toner End Option :Continue Printing	Color Status Black M • 60 100 • III • •
Slide 54	



□ The toner count reset can also be executed on the Service Mode screen of Smart Organizing Monitor.

AIO Replacement

- The ID chip on the AIO tells the machine that an AIO is installed. It is also used to detect when a new AIO is installed in the machine.
- If a new AIO is detected, the toner counter is reset automatically, and Toner End Option is automatically changed to 'Stop printing'.
- The AIO can be easily removed and replaced by the user. For more details, please refer to the operating instructions.

No additional notes

Slide 56



□ This section is the same as the Rn series.



- **OPC Organic Photo-Conductor (drum)**
- **PSU Power Supply Unit**



Transfer Roller Cleaning

- Toner may transfer to the roller surface following a paper jam, or if the paper is smaller than the image. Periodic cleaning of the roller is required to prevent this toner from migrating back to the rear of new printouts.
- **□** The roller is cleaned automatically at the following times:
 - · After initial power on
 - After clearing of a copy jam
 - At job end (if at least 10 sheets have been printed since last cleaning)
- □ To clean the roller, the PSU does the following:
 - Supplies negative cleaning current (about -4uA) to the transfer roller, causing negatively charged toner on the roller to move back to the drum.
 - Supplies positive cleaning current (+5uA) to the roller, causing any positively charged toner to migrate back to the drum.

Slide 60



□ This section is the same as the Rn series. However, there are no optional feed units in this new model.







- □ These paper sizes can be used:
 - Short (default): A5 (LEF/SEF), B5 (SEF), A4 (SEF), LT (SEF)
 - Long: LG (SEF), 8.5" x 13" (SEF), 8" x 13" (SEF), 8.25" x 13" (SEF)









Note: In some machines, the by-pass feed roller has a flat section to enable paper to pass by by-pass roller freely. This machine utilizes a curved metal plate on the by-pass feed roller to perform this function.





□ This section is basically the same as the Rn series. The envelope levers have been added for this model.










No additional notes



□ The fusing temperature for each condition (except "Energy saver mode 2") can be adjusted with "Fusing Unit Temperature" in the "Engine Maintenance Mode".

Overheat Protection

- □ If hot roller temperature becomes greater than 225C, the CPU cuts off power to the fusing lamp.
- If thermistor overheat protection fails, there is a thermostat in series with the common ground line of the fusing lamp.
- □ If the temperature of the thermostat becomes greater than 210C, the thermostat opens, removing power from the fusing lamp.
- □ At this time, the machine stops operation.

No additional notes

Slide 76





□ This section is the same as the Rn series. However, for this new series, all models have duplex.



□ The dotted blue line shows the path of paper back into the machine from the exit, for duplex printing.











<section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item>











Energy Saver Modes

Customers should use energy saver modes properly, to save energy and protect the environment.

The area shaded grey in this diagram represents the amount of energy that is saved when the timers are at the default settings. If the timers are changed, then the energy saved will be different. For example, if the timers are all set to 240 min., the grey area will disappear, and no energy is saved before 240 min. expires.

Timer Settings

The user can set these timers with User Tools (Menu > Admin Settings > Power Saver > Energy Saver Mode1 or Mode2)

- Energy Saver Mode1 (30 sec.): This can be only turned on or off.

- Energy Saver Mode2 (1 to 240 min.): This can be turned on or off and timer setting is adjustable (default: 1min.).

Return to Stand-by Mode

Energy Saver Mode1

- Recovery time: 10 sec.

Energy Saver Mode2

- Recovery time: 23 sec.

Recommendation

We recommend that the default settings should be kept.

- If the customer requests that these settings should be changed, please explain that their energy costs could increase, and that they should consider the effects on the environment of extra energy use.

- If it is necessary to change the settings, please try to make sure that the Energy Saver Mode2 Timer is not too long. Try with a shorter setting first, such as 30 min., then go to a longer one (such as 60 min.) if the customer is not satisfied.

- If the timers are all set to the maximum value, the machine will not begin saving energy until 240 minutes has expired after the last job. This means that after the customer has finished using the machine for the day, energy will be consumed that could otherwise be saved.











□ The following table shows paper savings and how the counters increase for some simple examples of single-sided and duplex jobs.

Originals	Simplex	Duplex	Paper	Total counter	Duplex counter
	Sheet	Sheets	Saved	SP8501-001	SP8411-001
	used	used			
1	1	1	0	1	0
2	2	1	1	2	1
3	3	2	1	3	1
4	4	2	2	4	2
5	5	3	2	5	2
10	10	5	5	10	5
20	20	10	10	20	10



□ The following table shows paper savings and how the counters increase for some simple examples of duplex/combine jobs.

2 in 1					
Originals	Simplex Sheet used	Combine Sheets used	Paper Saved	Total counter SP8501-001	Simplex Combine counter SP8421-004
1	1	1	0	1	1
2	2	1	1	1	1
3	3	2	1	2	2
4	4	2	2	2	2
5	5	3	2	3	2
10	10	5	5	5	5
20	20	10	10	10	10

Duplex + 2 in 1					
Originals	Simplex Sheet used	Combine Sheets used	Paper Saved	Total counter SP8501-001	Dupplex Combine counter SP8421-005
1	1	1	0	1	1
2	2	1	1	1	1
3	3	1	2	2	2
4	4	1	3	2	2
5	5	2	3	3	3
6	6	2	4	3	3
7	7	2	5	4	4
8	8	2	6	4	4
9	9	3	6	5	5
10	10	3	7	5	5
11	11	3	8	6	6
12	12	3	9	6	6

