

This training course provides service technician training for the AP-P3 series. It only explains the differences from the AP-P2, so knowledge of that model is required.



This section provides an overview of the machine, and the options that can be installed.

What Models are there in the Series?

□ AP-P3c (M124)

- 45 cpm
- Optional hard disk
- □ AP-P3d (M125)
 - 55 cpm
 - Built-in hard disk

□ All models contain PostScript3, duplex unit, and bypass tray as standard equipment.

Slide 3



Compared with related models:

- □ There is no shift tray, side tray, or one-bin tray option.
 - In the AP-P3, a mailbox is used instead. It occupies the same position in the paper feed path as the one-bin tray in the AP-C3.
- □ AP-P2 uses a 1000-sheet finisher. AP-P3 uses a 2000-sheet finisher.
- □ A side LCT was not used in AP-P2. It was added to increase the supply of paper to the machine.



		Also used with these new models:	Similar to:	Note	
One-tray paper feed unit (D579): PB3120		OR-C1, AT-C3	AP-P2	See notes page for allowed combination	
Two-tray paper feed unit (D580): PB3130		AL-P2, AP-C3	AP-P2		
Tandem LCT (D581): PB3140		AL-P2, AP-C3	AP-P2		
Side LCT (D631): RT3020		AL-P2, AP-C3			
Mailbox (M413): CS3000	New		AP-P2		
Bridge unit (D634): BU3060		AL-P2, AP-C3	AP-P2		
2000-sheet booklet finisher (D637): SR3110		AP-C3		Requires bridge unit a one of D580 or D581	
3000-sheet finisher (D636): SR3120		AL-P2, AP-C3	AP-P2	Requires bridge unit a one of D580 or D581	
Output jogger unit (B703): Output Jogger Unit Type 9002A	New	MT-C5, AL-C2	AP-P2	For D636 or D637	
Punch unit (D570): Punch Unit PU3030		AL-P2, AP-C3	AP-P2	For D636 or D637	

- □ AP-P2 uses a 1000-sheet finisher. AP-P3 uses a 2000-sheet finisher.
- □ A side LCT was not used in AP-P2. It was added to increase the supply of paper to the machine.
- □ There is no one-bin tray. In the AP-P3, a mailbox is used instead. It occupies the same position in the paper feed path as the one-bin tray in the AP-C3.

Permitted combinations of optional paper trays

- □ Mainframe 1-tray
- Mainframe 1-tray 2-tray
- □ Mainframe 1-tray 2-tray Side LCT
- □ Mainframe 2-tray
- □ Mainframe 2-tray Side LCT
- □ Mainframe LCT
- D Mainframe LCT Side LCT

Permitted combinations if finisher will be installed

- □ Mainframe 2-tray Side LCT + Finisher
- □ Mainframe LCT Side LCT + Finisher



Options: Printer

		Note
M416: IPDS Unit Type C830	New	
M354: Memory Unit Type J 512 MB		Same as AP-P2
M416: Memory Unit Type O 1 GB	New	
M439: Hard Disk Drive Option Type C830	New	For AP-P3c only
D645: Camera Direct Print Card Type J		Same as AP-C3
M416: SD card for NetWare Printing Type O	New	

		Also used with these new models:	Note
D640: VM Card Type U		AL-P2	
B679: IEEE 1284 Interface Board Type A		AP-C3	
M344: IEEE 802.11a/g Interface Unit Type L		AL-P2	Used with S-C4.5
M344: IEEE 802.11a/g Interface Unit Type M		AL-P2	Used with S-C4.5
M344: IEEE 802.11g Interface Unit Type P		AL-P2	Used with S-C4.5
D377: Gigabit Ethernet Board Type B		AT-C3	
M416: Gigabit Ethernet Board Type D	New		Without ferrite core
D651: Color Controller E- 5300	New		





Board Slots



- Slot A is used for one of the following: IEEE1284, IEEE802.11a/g (Wireless LAN).
- □ Slot B is used for Gigabit Ethernet.

Slide 10

□ The SD Card slots are discussed in more detail on the next few slides.



DF Direct/PCL/PostScript 3 are pre-installed in the controller ROM.











This section provides an overview of the main specifications and explains improvements over the AP-P2.



- □ The new fusing unit allows a wider range of paper weights to be used, and thin paper handling is improved.
- \Box A GW+ controller is used.

Comparing Specifications with Previous Models

	AP-P2	AP-P3
Print speed (A4/LT LEF)	P2c: 40 ppm P2d: 50 ppm	P3c: 45 ppm P3d: 55 ppm
First print time	P2c: Color 8 s, b/w 9 s P2d: Color 7 s, b/w 8 s	P3c: Color 5.7 s, b/w 3.7 s P3d: Color 5.1 s, b/w 3.4 s
Warm-up time	P2c: Less than 60 s P2d: Less than 60 s	P3c: Less than 29 s P3d: Less than 25 s

The highlighted areas show improvements since the previous model.

AP-P3 Training

RICOH

Targets

	AP-P2	AP-P3
APV, per month	P2c: 6K P2d: 10K	P3c: 5K P3d: 7K
PM Cycle	User PM	User PM
MPBF (Mean Prints Between Failure)	P2c: 121.2K P2d: 137.0K	P3c: 121.0K P3d: 137.0K
Estimated Unit Life	P2c: 1,200k or 5 years whichever comes first P2d: 3,000k or 5 years whichever comes first	3,000k or 5 years whichever comes first

Slide 18

Conditions

- □ User maintenance is done at the correct times.
- □ A4 (LT) short-edge feed
- □ 5% image coverage ratio
- □ 3P/J





PDI: Product Design Identity















Eco Night Sensor - 3

- If the controller is executing a process, the Light Detect Function activates after the process is completed.
- □ Light Detect also cannot activate if printing stopped due to a lack of paper or a paper jam.
- □ If a spooled print job is stored in the machine, the machine cannot activate Light Detect.
- After the Light Detect Function turns off the power, the machine cannot power on by itself. To power on the machine, the main power switch has to be turned on manually.

Slide 26





- □ This section explains important changes to the installation procedure since R-C5.5.
- □ Installation for the copier is very similar to the R-C5.5. However, the procedures for the options have some changes. Make sure that you use the correct procedures for the machine you are working on.

Overview

- □ Installation for the main machine and peripherals is basically the same as for the AP-P2.
- □ This section of the course shows the main changes.
- Some details are different, so always refer to the AP-P3 service manual when installing the machine and peripherals.
- □ The customer is normally expected to install the following peripherals:
 - Paper tray units
 - 2000-sheet large capacity tray
 - These controller options: IPDS Unit Type C830, SD card for NetWare printing Type O, Gigabit Ethernet Board Type D, Camera Direct Print Card Type J (PictBridge), Hard Disk Drive Option Type C830, IEEE802.11a/g Interface Unit Type L, IEEE1284 Interface Board Type A







1200-sheet LCT Installation A procedure has been added to the service manual, to explain how to change the side fence position for different paper sizes (A4 LEF/ LT LEF/ B5 LEF). After adjusting the side fences, input the correct paper size with SP5181-018. Stre 31









	AP-P3		AP-P2	
	User PM	Service PM	User PM	
PCDU	60k	150k	40k	
Waste toner bottle	40k	40k	40k	
ITB unit	200k	300k	200k	
PTR unit	160k	300k	160k	
Fusing unit	160k	300k	160k	
Ozone filter	160k	300k	160k	
Exhaust filter	160k	300k	160k	
Dust filter (Toner Scatterproof Filter)	-	300k	-	

Ozone Filter/Exhaust Filter: The life was changed from 200k to 300k, this is because this model uses the new SPR-F toner, which reduces the amount of powder dust inside the machine.








□ For the procedure, see SMC List Card Save Function in the service manual.

















<image><text><image><image><image><list-item><list-item><image>





- □ The on/off lighting pattern of the fusing lamps depend on the machine destination and the printing paper size. The light-on patterns are shown below.
 - > Lamp [A]: Letter LEF (NA), A4 LEF (Others)
 - > Lamp [B]: Letter SEF (NA), A4 SEF (Others)
 - Lamp [C]: Post card (100 mm)
- □ The pressure roller is not heated internally.
 - > There is no lamp in the pressure roller. (More simple design.)
- □ There is no decurler after the fusing exit.



- □ The heating sleeve [A] rotates freely. It is driven by the pressure roller.
- □ The nip pad [B] has a low friction cover, and this allows the fusing belt to turn easily.
- □ The pressure roller presses against the nip pad [B] to form the nip zone, where the image is fused to the paper by heat and pressure.
- □ The stay [C] holds the nip pad [B] in place.
- □ The stay has a mirrored surface facing the fusing lamps [D] to concentrate the energy from the lamps directly on the inner surface of the heating sleeve [A].









- □ The fusing shutter improves conservation of heat inside the fusing unit. It allows a faster first copy time and a smaller TEC value.
- □ The shutter operates in conjunction with fusing pressure release, so the timing of opening/closing is as follows.
 - > Fusing pressure release: shutter opens
 - > Fusing pressure ON: shutter closes







- When the main switch turns on, the CPU turns on the fusing lamp [E] in the fusing sleeve belt. The fusing lamp stays on until the pressure roller thermistors [D], NC sensors [A] and thermopile [F] detect the standby temperature. Then the CPU raises the temperature to the printing temperature.
- □ The fusing temperature for each mode is as follows. These are set by SP 1105.
- The thermostats [C] for the heating sleeve belt are used for overheat prevention. These thermostats are opened if the heating sleeve belt temperature is over 250° C.
- □ The PID control (the phase control) method and On/Off method are adopted as fusing temperature control methods.
- □ The heating temperature is detected with the thermopile [F] and the NCU sensors [A]. The pressure temperature is detected with the thermistors [D]. The thermostats act as safety switches at the heating sleeve belt unit side.



□ [A] and [B] are bearings – you can ignore these for the purpose of this slide.







Boards

□ The IPU board of the AP-C3 is replaced by the BB board.

- □ The BB (Bridge Board) does the following:
 - Receives the image processing signals sent over the PCI bus from the controller memory, processes them and outputs them to the VGAVD.
 - Controls the relay of power and signals to/from the print engine

No additional notes

Slide 59









PSU Ventilation

- To prevent rising temperature in the toner supply route [A] due to heat from the PSU, the hot air in the power supply unit will be exhausted to the outside directly (1).
- □ To do this, a louver ([C] in the overview) is added and the PSU fan is moved.

Toner Supply Section Ventilation

□ The previous machine creates the airflow [A] with the PSU fan. In the new model, the louver ([B] in the overview) and the duct [2] are added at the rear of the machine to get the external air in. And, the 1st duct fan is newly added to create the airflow [B] because the PSU fan is used to exhaust only.







RICOH RICOH

Environmental Conservation

Technology for Environmental Conservation Energy Saving Paper Saving

Slide 67

□ This section explains the technology used in this machine for environmental conservation, and the default settings of related functions.



**: New or modified function			
Plank, Dess not have this fun	ation		
Environmental	Description	New model	Old model
Technology/Feature		AP-P3	AP-P2
1. QSU	- Reduction of warm-up time (Energy	**	*
2. Hybrid QSU	saving)	*	*
3. IH QSU	- Reduction of CO ₂ emissions		*
4. Paper-saving features	- Allows documentation to be managed digitally, cutting down on paper consumption.	*	*
	- Improves machine productivity when printing out duplex (double-sided) images.		
5. High-speed duplex output	- Improves machine productivity when printing out duplex (double-sided) images	*	*
6. Ozone reduction design	- Low ozone emissions	*	*
7. PxP (polymerized) toner	-Energy saving - Conservation of materials/resources (reduced toner consumption)	*	*
8. Noise reduction design	- Low noise	*	*
9. Minimization of harmful substances	- Minimization of harmful substances	*	*
10. Environmentally-friendly toner bottle	- Conservation of materials/resources	*	*
11. Toner recycling	1	*	*
12. Recycle-friendly design		*	*

Technology for Environmental Conservation

```
Slide 68
```

□ This slide explains what technologies are used for conserving the environment in this product.

Brief Descriptions of the Technologies

□ 1. QSU (Quick Start-up)

- This technology reduces both the amount of energy consumed while in Standby mode (the Ready condition) is reduced, as well as the time it takes for the machine to warm up to the Ready condition.
- This is made possible through the utilization of dual fusing lamp heating, low fusing point toner, a pressure roller with a "sponge" surface layer, and a thin surface layer hot roller.

2. Hybrid QSU

 This technology adds an additional circuit to conventional QSU Technology, which allows the benefits of reduced energy consumption and reduced warm-up time described above to be extended to high-speed machines.

Slide 69

Brief Descriptions of the Technologies

3. IH QSU

 This technology incorporates IH (Inductance Heating) technology into conventional QSU technology, which allows the benefits of reduced energy consumption and reduced warm-up time to be extended to color machines.

□ 4. Paper-saving features

1) The duplex (double-sided) and Combine features reduce paper consumption.
2) The Document Server and other electronic document management features reduce paper consumption by offering an electronic method for storing and managing important documents.

Slide 70

Brief Descriptions of the Technologies

□ 5. High-speed duplex output

- 1) Enables high-speed duplex printing through the utilization of the Duplex Interleaf and highspeed Inverter Transport features.
- 2) Enables quick printing of duplex jobs through the use of Duplex Scanning.

□ 6. Ozone reduction design

- Greatly reduces the machine's ozone emissions to near-zero levels by utilizing:
 - 1) A charge roller/belt instead of a corona wire
 - 2) An image transfer roller/belt instead of a

corona wire-based transfer system

Slide 71

Brief Descriptions of the Technologies

□ 7. PxP (polymerized) toner

- "PxP toner" is a fine-particle, polyester resin based toner, manufactured using a Ricoh-original polymerization method instead of the conventional pulverization method.
- This allows the toner to fuse at a lower temperature, which reduces the impact on the environment and contributes to achieving even higher image quality than before.
- PxP toner also has other benefits, including a reduction in the amount of toner needed to develop the image, as well as an approximate 35% reduction in CO₂ emissions during the toner manufacturing process.

Slide 72
Brief Descriptions of the Technologies

8. Noise reduction design

- 1) The machine and its components are designed to minimize the overall noise generated by the machine. As a result, all noise levels conform to the local laws and regulations as well as user requirements in each market in which the products are sold.
- 2) Reduces the noise generated by the polygon mirror motor.

9. Minimization of harmful substances

- 1) Products sold in the EU conform to the RoHS Directive.
- 2) Products sold in China conform to China's version of the RoHS Directive.
- 3) In addition, Ricoh imposes strict internal standards for limiting the presence of harmful substances.

Slide 73

Brief Descriptions of the Technologies

10. Environmentally-friendly toner bottle

- A changeover from PS/PP/HDP to PET plastics allows approximately 40 percent by weight of the toner bottle to be recycled, and also reduces CO₂ emissions that occur during the toner bottle manufacturing process.
- □ 11. Toner recycling
 - Enables effective use of resources by recycling (reusing) the toner left over on the drum surface after image transfer.

□ 12. Recycle-friendly design

- To maximize the recycling ratio of machine and component materials, as well as the ease of performing the recycling in the field, machine sections and components are designed so that the recyclable parts can be separated out easily.
- In addition, components are designed so that they can be reused for as long as possible after the machine has reached its operational lifetime.

Slide 74

Quick Start-up

QSU reduces the operating temperature, because of these improvements in fusing unit technology

- Use of the heating sleeve belt
- Low melting-point toner
- This also means that the warm-up time and recovery time from energy saver modes are also reduced.
 - Warm-up time (23 °C)
 - » AP-P2c: 50 sec or less, AP-P2d: 55 sec or less
 - » AP-P3c: 29 sec or less, AP-P3d: 25 sec or less
 - Recovery time
 - » AP-P2c: 50 sec or less, AP-P2d: 55 sec or less
 - » AP-P3c: 15 sec or less, AP-P3d: 20 sec or less

```
Slide 75
```

Through major reductions in warm-up time and recovery time from energy saver modes (Low power, Off/Sleep), QSU (Quick Start Up) Technology has eliminated the traditional trade-off between energy saving and convenience of speed.

Slide 76



- When the machine is not being used, the machine enters energy saver mode to reduce the power consumption by turning off the LCD of the operation panel and lowering the fusing temperature.
- □ The area shaded green 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 minutes, the green area will disappear, and no energy is saved before 240 minutes expires.
- Power consumption during warm-up may be much higher than shown in this diagram.



- The user can set these timers with User Tools
 MFP/ Priport: User Tools > System settings > Timer Setting
 Printer : User Tools > System settings > Energy Saver Timer
- □ Normally, Energy Saver timer < Auto Off timer.
- But, for example, if Auto Off timer < or = Energy Saver timer, the machine goes immediately to Off mode when the Auto Off timer expires. It skips the Energy Saver mode.
- □ 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 Auto Off timer is not too long. Try with a shorter setting first, such as 30 minutes, then go to a longer one (such as 60 minutes) 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.
 - If you change the settings, the energy consumed can be measured using SP8941, as explained later in this presentation.
- Power consumption during warm-up may be much higher than shown in this diagram.



2. Energy Saving 2.2 Energy Saver Mode: Condition of LEDs

Condition of LEDs on the operation panel

Mode	Operation Switch LED	Energy Saver LED	Main Power LED
Low Power Mode	On	Off	On
Off/Sleep Mode	Off	Blinking	On

Slide 78

2. Energy Saving

2.3 Energy Saver Mode: Low Power Mode

- □ The machine enters low power mode when the energy saver timer runs out after the last job.
- When the machine enters low power mode, the fusing temperature is lowered to the prescribed temperature (below the machine ready temperature).
- □ The machine recovers to the ready condition if one of the following occurs:
 - The Energy Saver key is pressed
 - The user touches the operation panel
 - The front door is opened or closed
- □ The recovery time depends on the model and the region.
 - P3c: 15 seconds or less
 - P3d: 20 seconds or less

Slide 79

2. Energy Saving

2.4 Energy Saver Mode: Auto Off Mode – 1

The machine enters auto off mode when one of the following is done.

- The auto off timer runs out after the last job.
- The operation switch is pressed to turn the power off.
- When the machine enters auto off mode, no power is supplied to the printing engine, and almost none to the controller.

□ Recovery time

- P3c: 15 seconds or less
- P3d: 20 seconds or less

Slide 80



- □ This timing chart shows what happens if the operation switch is pressed while the machine is in auto off mode.
- □ Power consumption during warm-up may be much higher than shown in this diagram.



- □ This timing chart shows what happens if data is received while the machine is in sleep mode.
- Power consumption during warm-up may be much higher than shown in this diagram.

2. Energy Saving 2.6 Energy Save Effectiveness

□ With the data from SP 8941:Machine Status, and the power consumption values from the specifications, we can estimate the amount of energy that is used by the machine.

- 8941-001: Operating mode time
- 8941-002: Standby mode time
- 8941-004: Low power mode time
- 8941-005: Off/sleep mode time
- □ This should only be used as a reference value, because the power consumption specifications are measured in a controlled environment with a constant power supply.
- To get an exact measurement at the customers site, a watt meter must be used to measure the actual energy consumed.

Slide 83

3. Paper Saving 3.1 Measuring the Paper Consumed – 1

1. Duplex: Reduce paper volume in half!



2. Combine: Reduce paper volume in half!



3. Duplex + Combine: Using both features together can further reduce paper volume by 3/4!



Slide 84

3. Paper Saving 3.1 Measuring the Paper Consumed – 2

To check the paper consumption, look at the total counter and the duplex counter.

- Total counter
- : SP 8581 001 • Single-sided with duplex mode : SP 8421 001
- Double-sided with duplex mode : SP 8421 002
- Book with with duplex mode : SP 8421 003
- Single-sided with combine mode : SP 8421 004
- Duplex with combine mode : SP 8421 005
- □ The total counter counts all pages printed.
- □ The duplex and combine counter counts all pages printed with duplex and combine mode.

Slide 85

3. Paper Saving 3.1 Measuring the Paper Consumed – 3 How to calculate the paper reduction ratio, when compared with Single-sided copying, with no 2-in-1 combine mode □ Paper reduction ratio (%) = Number of sheets reduced: A/Number of printed original images: B x 100 Number of sheets reduced: A = Output pages in duplex mode/2+ Number of pages in Single-sided with combine mode + Number of pages in Duplex with combine mode x 3/2 $A = (2+3+4)/2 + 5+6 \times 3/2$ Number of printed original images: B = Total counter+ Number of pages in Single-sided with combine mode + Number of pages in Duplex with combine mode B = 1 + 5 + 6① Total counter : SP 8581 001 (pages) ② Single-sided with duplex mode : SP 8421 001 (pages) ③ Double-sided with duplex mode : SP 8421 002 (pages) Book with with duplex mode : SP 8421 003 (pages) Single-sided with combine mode : SP 8421 004 (pages) 6 Duplex with combine mode : SP 8421 005 (pages) Slide 86

In the above formula:

- □ Sheet: A sheet of paper
- Degree Page: A side of a sheet of paper. In duplex mode, one sheet is two pages
 - > Output page: One side of a sheet of output paper
- Original Image: An image of one original page (or, an image of one side of a twosided original)
 - For one sheet of output paper in two-in-one copying, four original pages are copied onto two output pages.



This section explains some important product limitations.



Variations in target yield (pages) due to image coverage ratio

- Target yield figures are set for each PM unit shown in the table below, both in terms of number of pages and usage time (whichever is reached first). The percent of yield currently (% of unit usage) reached can be displayed in SP7803-109 to -113 for pages, and in SP7803-080 to -084 for usage time.
- □ The timing at which a given PM part will reach its yield depends on the average image coverage ratio conditions under which the customer uses the machine. For example, if the average coverage ratio is over 5%, the usage time counter will reach the target yield before the page counter does. This is because with the high coverage ratio, the toner supplying time will increase (i.e. the usage time is greater).
- Table 1: Target yield when calculated by pages (page counter value, % yield reached)

	< 5%	5%	10%	20%	30%	40%	50%	
Toner Supply Unit - K	2000 k (> : Target yie	200 0k (10 0%) Id when ca	100 0k (50 %) alculated b	500k (25%) y usage tim	333k (16%) ie (% yield i	250k (12%) reached)	200k (10%)	
Note: Pércent of vield reached (usage time) = PM counter value (usage								
Toner tin Supply	ie) / Țarget 1500	yield_(usa ^{0k}	ge time) k	375k (25%)	250k (16%)	187k (12%)	150k (10%)	
YCM	к (>10	(10 0%)	(50 <%			5% to 50%		
Toner Supply Unit - K		(Le	(Less than 100%)		(100%)			
Toner Supply Unit - YCM ((Le	ess than 100%)		(100%)			

Note: Percent of yield reached (pages) = PM counter value (pages) / Target yield (pages)

Kink in the Fusing Sleeve Belt

- □ If a power shutdown occurred during continuous printing of more than 500 P/J, a kink occurs in the center of the fusing sleeve belt, and poor fusing occurs in the center of the page.
- Normally, the machine reduces the heat of the fusing sleeve belt uniformly. This cannot be done when there is a power shutdown, so a difference in temperature between the center of the sleeve belt and other parts occurs, and this causes a kink in the sleeve belt.
- □ If this happens, change the fusing sleeve belt.

Slide 89



1. Do one of the following.

- Open the right cover of a paper bank
- □ Take out one of the toner bottles
- □ Take out the waste toner bottle half way

2. Go into Super SP Mode.

3. Do the Output Check.

- □ SP5-804-031: Output check (high speed)
- □ SP5-804-032: Output check (middle speed)
- □ SP5-804-033: Output check (low speed)
- □ SP5-804-035: Output check (slower than low speed)

4. Power switch OFF/ON

5. Restore the machine to the standby condition (reverse what you did in step 1).

CPM Decrease

When printing on small-width paper from the bypass tray or Envelope Feeder, the CPM decreases automatically.

- This CPM decrease occurs in order to prevent the hot offset image which occurs because of the rise in temperature at the ends of the fusing belt when doing continuous printing with a small paper width.
- If possible, change the paper orientation from SEF to LEF.

This does not occur with the AT-C3 series.

Here are some examples of the CPM reductions that occur:

- □ [A]: Within 1 minute of the start of printing
- □ [B]: After 1 minute from the start of printing
- □ A5 SEF

Slide 91

- AP-C3c (NA/EU): BK [A] 5% down [B] 30% down, FC [A] 10% down [B] 35% down
- AP-C3d (NA/EU): BK [A] 20% down [B] 40% down, FC [A] 25% down [B] 45% down
- HLT SEF
 - AP-C3c (NA/EU): BK [A] 5% down [B] 30% down, FC [A] 10% down [B] 35% down
 - AP-C3d (NA/EU): BK [A] 20% down [B] 40% down, FC [A] 25% down [B] 45% down
- □ A6 SEF
 - AP-C3c (NA/EU): BK [A] 5% down [B] 20% down, FC [A] 10% down [B] 25% down
 - AP-C3d (NA/EU): BK [A] 20% down [B] 40% down, FC [A] 25% down [B] 45% down

Waiting Time After Feeding Small-width Paper

- After printing some sheets of small-width paper, if you then print on wider paper, waiting time occurs.
- Offset image may occur since the temperature at the ends of the fusing belt rises during printing a number of sheets of small-width paper.
- In order to prevent this, it is necessary to lower the fusing lamp temperature, and waiting time occurs when you need the higher temperature for the wider paper.
- If possible, change the paper orientation from SEF to LEF.

EU model

Slide 92

- □ A4 SEF (Middle Thick): 100 sheets or more: 10 seconds
- □ A5 SEF: 20 sheets or more: (BK) 10 seconds, (FC) 28 seconds

NA model

- LT SEF (Middle Thick): 100 sheets or more: 10 seconds
- LG (Middle Thick): 100 sheets or more: 10 seconds
- □ A4 SEF: 100 sheets or more: 10 seconds
- □ A4 SEF (Middle Thick): 40 sheets or more: 10 seconds
- □ A5 SEF: 20 sheets or more: 30 seconds
- □ COM10: 40 sheets or more: 15 seconds





The End