

Model: Model AR-P1		Date: 7-May-04	No.: RG081006
Subject: Model AR-P1e/L technical change points		Prepared by: K. Moriizumi	
From: 1st Tech. Support Sec. Service Support Dept.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input checked="" type="checkbox"/> Other (      )	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information

This RTB has been issued to announce the technical information for the Model AR-P1e/L.

## Product Configuration:

- Model AR-P1e: Enhanced version
- Model AR-P1L: Low-cost version

	AR-P1e	AR-P1L	AR-P1
Print speed (Continuous A4 SEF): Mono/Color	21ppm/17ppm	16ppm/16ppm	20ppm/16ppm
CPU	400MHz	350Mhz	400Mhz
Standard RAM	128Mb	64Mb	64Mb
RAM slots	2 slots (1 slot for optional memory)	1 slot	2 slots (1 slot for optional memory)

## Consumables:

Interchangeability of consumables between Models AR-P1 and AR-P1e/L:

	Model AR-P1	Model AR-P1e/L
Old Waste Toner Bottle	<b>Usable</b> (Expected yield: 24KD)	<i>Not useable</i>
New Waste Toner Bottle	<b>Usable</b> (Expected yield: 36KD)	<b>Usable</b> (Expected yield: 44KD)
Old Fusing Unit	<b>Usable</b>	<i>Not useable</i>
New Fusing Unit	<i>Not useable</i>	<b>Usable</b>

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**Technical Changes, Units****■ Toner transfer method**

Model AR-P1: Fixed-voltage transfer

Model AR-P1e/L: Fixed-current transfer

The high voltage unit and transfer roller have been changed.

**[Purpose]**

Improve image quality with thick and small paper types.

**[Description]**

-On the AR-P1, the operator needs to set the paper type in UP Mode (Normal, Other1 or Other2) to obtain the optimal transfer current.

-On the AR-P1e/L, the three paper type settings above are combined into one. The machine automatically adjusts to the optimal transfer current/voltage.

**■ PCU**

The material of the quenching sheet has been changed.

**[Purpose]**

To minimize the appearance of vertical lines.

**[Description]**

Scratches or indentations develop on the quenching sheet due to arcing between the sheet and development roller, after which toner fills in these areas. This in turn scratches and shows up on the outputs as vertical lines. The new material prevents arcing between the sheet and development roller, minimizing the appearance of vertical lines.

Applied from: February 2004 production.

**■ Toner bottle**

The shape of the agitator has been changed.

**[Purpose]**

To minimize the amount of "dead" toner in the toner bottle.

**[Description]**

The agitator has been changed to minimize remaining toner in the hopper at the time that Toner End is detected.

Applied from: April 2004 production.

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**■ Machine internal temperature**

Openings have been added to the machine frame.

**[Purpose]**

To provide for a lower machine internal temperature.

**[Description]**

This reduction in machine internal temperature will help further minimize symptoms caused by higher temperature levels (e.g. darkened yellow areas, brush marks, partial blank lines).

**■ Main drive unit**

The unit's mechanism has been simplified.

**[Purpose]**

To further improve image quality.

**[Description]**

The planetary gears have been removed from the main driver unit. The unit's mechanism has been simplified in order to reduce the internally generated vibrations, which can contribute to poor image quality.

**■ Optimal image density**

The image density has been optimized (slightly lowered compared to the AR-P1).

**[Purpose]**

To improve overall image quality and toner yield.

**[Description]**

The overall image density on this model has been slightly lowered, as the solid area ID on Model AR-P1 was slightly dark, which improves both image quality and toner yield.

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**Newly Added SP Modes****■ SP5-921: Envelope Pre-heat Mode**

This feature warms-up the fusing belt further before printing envelopes.

When this SP is set to "1", a fusing belt warm-up cycle (max. 60sec) is added for envelope jobs just before printing begins. For some envelopes, this will minimize the amount of envelope wrinkling.

**■ SP7-834: P/J Counters****■ SP5-998-003: P/J Counter Clear**

The SP7-834 P/J counters can be displayed on the panel and also appear on the SMC report. Their values are reset when SP5-998-003 is performed.