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LaserWriter Pro: Memory Configurations (1/93)

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Article Change History

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- 1/14/93 - CORRECTED
 - To show the correct memory specification
 - 1/28/93 - REVISED
 - To discuss double-sided memory SIMMs

TOPIC

This article describes the memory configurations of the LaserWriter Pro 600 and LaserWriter Pro 630.

DISCUSSION

The LaserWriter Pro 600 is shipped with 2MB of ROM and 4MB of built-in RAM. When the included 4MB PhotoGrade Kit is added (dealer installation is required), the LaserWriter Pro 600 has 8MB of RAM. The LaserWriter Pro 600 supports these RAM configurations: 4MB, 8MB, 16MB, 20MB, and 32MB.

The LaserWriter Pro 630 is shipped with 2MB of ROM and 8MB of RAM. It supports these RAM configurations: 8MB, 16MB, 20MB, and 32MB.

The LaserWriter Pro 600 and 630 printers use industry standard 72-pin fast mode 80ns memory SIMMs. Each printer has two banks of memory; each bank has one SIMM socket.

Memory Upgrades

When you add memory to a LaserWriter Pro, you must fill Bank A before Bank B. If you have memory SIMMs of two different memory sizes, you must put the SIMM with the greater amount of memory in Bank A.

You may use 4MB, 8MB, or 16MB RAM SIMMs in the LaserWriter Pro printers. All 8MB SIMMs currently produced are considered double-sided SIMMs, since they have memory chips on both sides.

If you have a double-sided SIMM in one memory bank, the other memory bank must

be left empty. The second memory bank cannot contain a SIMM.

This is inherent in the design of the LaserWriter Pro I/O Controller board. When a double-sided SIMM is installed in one bank, each side of the SIMM is treated electrically as an individual bank. Since the LaserWriter Pro printers can only have two banks of memory, the second physical bank is unusable and you cannot insert a memory SIMM into it.

Apple manufactures many LaserWriter Pro printers with one double-sided 8MB memory SIMM. To increase memory, you must first remove the 8MB SIMM and then insert the desired memory SIMMs into the printer.

Here are the valid memory configurations for the LaserWriter Pro:

Bank A	Bank B	Total Memory
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4MB	Empty	4MB
4MB	4MB	8MB
8MB	Empty	8MB
16MB	Empty	16MB
16MB	4MB	20MB
16MB	16MB	32MB

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