

Section 5

Installing More Memory

There are a total of 12 SIMM sockets on your LASER 486 System board, they are divided into three banks labelled 'BANK 0', 'BANK 1' and 'BANK 2' on the system board. Bank 0 and BANK 1 banks must be populated with the same type of DRAM. The system board will support 256K x 9 SIMMs, 1M x 9 SIMMs or 4M x 9 SIMMs. The DRAM speed should be 80nS or faster.

The system board will support 'x8' SIMMs provided the parity is disabled, refer to section 8 'System Board Configuration' for details on disabling parity.

The following are the supported DRAM configurations.

BANK 0	BANK 1	BANK 2	Total memory
256K	none	none	1MB
256K	256K	none	2MB
256K	256K	1M	6MB
1M	none	none	4MB
1M	1M	none	8MB
1M	1M	1M	12MB
1M	1M	4M	24MB
4M	none	none	16MB
4M	4M	none	32MB
4M	4M	4M	48MB

The memory components which can be used for this installation are as follows:

Part Number	Description
MC-42256AE9B-80	256K x 9 SIMM
MC-421000A9B-80	1M x 9 SIMM
MC-424100A9B-80	4M x 9 SIMM

Note : The part number provided is manufactured by Motorola® but can be substituted by other manufacturers. Consult your LASER dealer for the manufacturers of the memory modules suitable for your LASER computer.

Appendix A

Jumper Functions

JP1 - Processor select

This jumper is used to select the type of processor installed in the upgrade processor socket.

 Upgrade Processor or 80487SX

 80486SX

 80486DX

JP4 - Monitor type select

 CGA

 MDA

Note : either position is valid for a VGA or EGA type monitor.

JP5 - Battery select

 On-Board rechargeable battery

 External battery pack, connected to J3

JP6 - Upgrade Processor socket select

This jumper selects the usage of the upgrade processor socket.

 Vacant

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