MEMORY CONFIGURATION FOR THE
NewLife *Accelerator!* Series

The **NewLife *Accelerator!*** system upgrade requires on board memory in the form of four **S**ingle **I**n-Line **M**emory **M**odules (SIMM's). The Motorola 68030 CPU accesses memory 32 bits at a time, 8 bits from each SIMM location. Therefore, all four SIMM sockets on the **NewLife *Accelerator!*** must be filled with SIMM's of the same size. SIMM's which are 80 ns or faster are required. RAM on the **NewLife *Accelerator!*** may configured in one of two ways:

1. With four 1 MB SIMM's, totalling 4 MB of RAM, or
2. With four 4 MB SIMM's, totalling 16 MB of RAM.

In order to access 16 MB of RAM, a software package called VIRTUAL™ by Connectix Corporation is required.

If you have installed only 4 MB of RAM on the **NewLife *Accelerator!*,** VIRTUAL™ also allows you to use any free space on your hard drive as additional application memory, up to a maximum of 16 MB.

The ROM's of a Compact Macintosh (Plus, SE and Classic) allow the system to address no more than 4 MB of memory. Consequently, RAM on the motherboard cannot be used as application memory. A small portion of this is required for the internal screen's video data, but with VIRTUAL™ the remaining motherboard memory may be used as a RAM Disk. A RAM Disk is significantly faster than any hard drive, but also constitutes volatile memory. As a result, any new documents which you create and store on your RAM Disk should be saved to a non-volatile media (hard drive or floppy diskette) before you turn off the power to your Mac. VIRTUAL™ offers a feature which performs this task automatically.

If you are installing the **NewLife *Accelerator!*** on a Mac Plus or Mac SE, at least 1 MB of memory must be left on the motherboard. If you change your motherboard memory configuration, please ensure that the motherboard RAM configuration jumpers/resistors are changed accordingly.

In order for the **NewLife *Accelerator!*** to maximize its performance, it has rigorous timing requirements for the DRAM SIMM's. Not all DRAM SIMM's work. The following is a list of SIMM's which are recommended for use with the **NewLife *Accelerator!:***

	Size	Speed	Manufacturer
1.	1 MB (2-chip module)	70 or 80 ns	Any brand
2.	1 MB (8-chip module)	70 or 80 ns	Goldstar
3.	1 MB (8-chip module)	70 or 80 ns	Motorola
4.	1 MB (8-chip module)	70 or 80 ns	NEC
5.	1 MB (8-chip module)	80 ns	OKI
6.	1 MB (8-chip module)	70 or 80 ns	Samsung
7.	1 MB (8-chip module)	70 or 80 ns	Siemens
8.	1 MB (8-chip module)	80 ns	Toshiba
9.	4 MB (8-chip module)	70 or 80 ns	Any brand