

ISSUE 512K RAM BOARD FOR THE VICTOR SIRIUS

It is possible to install the Issue 512K RAM board using only the information printed on the top right hand corner of the board.

DETAILED INSTALLATION INSTRUCTIONS

Turn off the computer. Disconnect and remove the monitor. Remove all connections at the rear. Remove the back panel by unscrewing the four retaining screws and lay the back panel forward. Slide the Sirius top cover towards the rear of the machine and remove. When replacing the top cover, the ventilation slots are to the front.

Set the START ADDRESS switch on the top right hand corner of the Issue Board according to how much memory is already present. For example, if there is 256K of memory currently present, the switch can be set to 256K.

In general memory boards should be installed so that the blocks of memory do not overlap and are contiguous (no gaps). No damage should result if a memory board is configured incorrectly but in this case the additional memory and possibly some of the existing memory will not be recognized by the system.

Other memory boards, if required for further expansion beyond 640K or 768K, can be configured to reside above the Issue 512k memory board in the memory map. The maximum amount of memory which can be addressed by the Sirius is 896k, including the memory already installed on the motherboard.

Insert the RAM board into any vacant expansion slot. As with all Sirius expansion boards, the component side should face the edge of the machine. This is also indicated by 'FAN' on the board. NO RESPONSIBILITY WILL BE ACCEPTED BY ISSUE FOR BOARDS INCORRECTLY INSERTED. Reassemble the machine and remake all connections.

TESTING: Turn on the computer. The amount of memory present and recognised by the system is displayed at the bottom of the screen in various ways according to the type of Boot ROMs fitted.

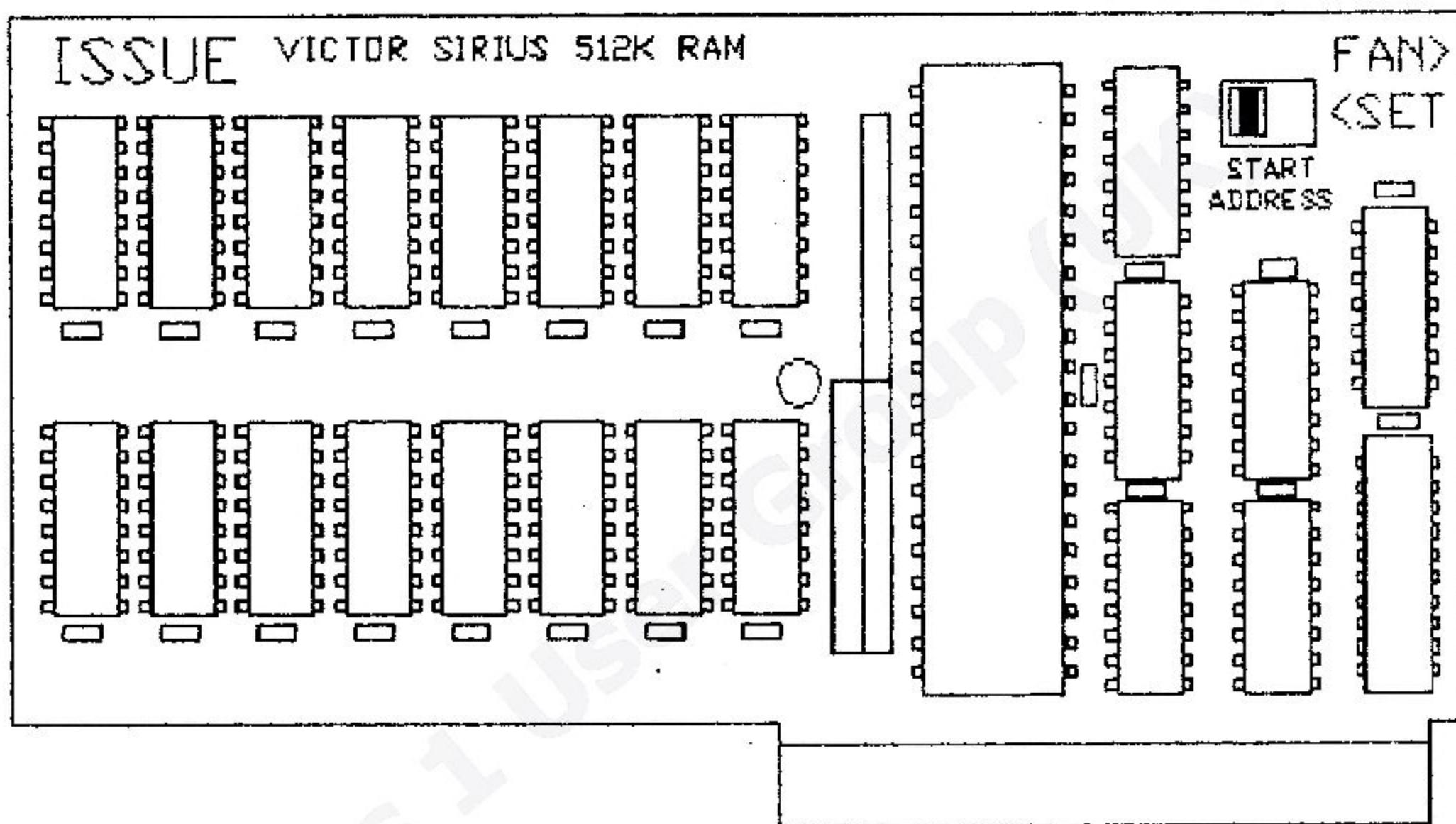
ISSUE ROM	UNIVERSAL ROM	OLD ROM
RAM: 128K	M 128K	M 2000
RAM: 256K	M 256K	M 4000
RAM: 384K	M 384K	M 6000
RAM: 512K	M 512K	M 8000
RAM: 640K	M 640K	M A000
RAM: 768K	M 768K	M C000
RAM: 896K	M 896K	M E000

The MS-DOS utility CHKDSK can also be used to give an indication of the amount of memory installed but if an old version of CHKDSK is used the 'total memory' figure given will be somewhat less than the full amount because CHKDSK assumes that the operating system is loaded low in the memory map whereas on the Sirius it is loaded high.

If these instructions have been followed correctly and proper operation is not obtained, insert the board into one or more of the other expansion slots. Dirty or dispaced contacts in these sockets occasionally cause problems. If correct operation is still not obtained then the board is defective. ~~ISSUE, PO BOX~~ ~~ISSUE, PO BOX~~

DATA SHEET

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The Issue 512K RAM Board provides 512K bytes of Dynamic RAM in a high speed, low power design which features simple installation, easy maintenance and high reliability. Adding memory to a microcomputer is the fastest way to increase execution speed as more memory is available for caching and other high speed storage schemes available within MS-DOS and with ramdisc software provided.

The Issue board is the first Sirius memory board to use a Large Scale Integration (LSI) DRAM Controller, driven in direct mode for maximum performance. Many memory designs, notably those in Apricot and IBM-type machines, degrade system performance by 7% or more by halting operations during the refresh cycle. However the Issue design fully meets the Sirius specification in featuring true transparent refresh for full performance, no wait-state operation with zero system degradation.

Support logic is implemented in high speed CMOS devices which are fully compatible with TTL but use 1000 times less power. The entire design uses only 24 chips compared to around 80 in a typical Sirius 512K board. Low component count and power consumption directly equate to high reliability. All chips on the board are fitted into high quality 'dual wipe' sockets and chip type-numbers are marked throughout.

Installation of the Issue 512K RAM Board is by a single switch set for either 128K or 256K, according to the amount of memory already fitted to the Sirius motherboard. Other memory boards, if required beyond 640K or 768K, can be installed 'above' the Issue 512K Board. Conventional Sirius memory boards of any capacity are around three times larger than the Issue RAM Board, shown above actual size.