

OPERATION:

The Lower Case Adapter affects only the text mode display of the Apple, extending the character generator to include the set of 32 lower case characters. Specifically, the LCA causes any byte containing 111 in the top three bits to be displayed as a lower case letter or as one of the standard ASCII symbols "", "{", "|", "}", or "~". A small block "■" is displayed if the byte is \$FF. There is no conflict with most standard Apple software because the 111 combination in the top three bits was not previously used. The top two bits are used by the Apple, however, to select reverse video or flashing, so lower case letters cannot be displayed flashing or in reverse video.

USING LOWER CASE:

The Apple's keyboard generates only upper case ASCII codes, and its monitor (in ROM) intercepts any lower case input and changes it to upper case. Therefore, it is necessary to use special means to enter lower case letters and the other new symbols.

Most popular editors and word processors, such as Applewriter II*, include facilities for lower case entry and optional lower case display. Others require a patch to allow displaying lower case on the screen. Patches are included in the back of this manual for Applewriter* 1.0 and Apple Pascal 1.1. We do not have patches for other versions of these products or for any other products, nor do we have patches to enable using the shift key with these products.

Some software products make no provision for lower case, and some of these are "protected" so that it is even impossible to patch them. Check the manual that should have been provided with the specific