

# LCA-1a<sup>TM</sup>

## LOWER CASE ADAPTER FOR APPLE-II\*

This is the LCA Model 1a. It is for the Apple-II with Revision 6 and older CPU board only. These boards have the RAM Configuration Blocks (the small plastic blocks along the left side of the CPU board, usually labeled 16K 16K 16K and described on page 70 of the Apple-II Reference Manual). Do not install an LCA-1a on a computer that does not have the RAM Configuration Blocks. See step 7 of the trouble-shooting guide in this manual.

### INSTALLATION INSTRUCTIONS:

1. Turn off power, remove the power cord, and remove all cards from the I/O slots. Turn the computer on its top or side, and remove the three phillips head screws along each side of the base plate. Then set the computer right side up with the front edge overhanging the edge of the table, and remove the four screws along the front edge. Lift the case only enough to slide it forward a few inches. Do not remove the case completely. Be careful not to pull out the keyboard cable plug.
2. Remove the black foam pad from the LCA, and check for bent pins. Save the pad for use in storing the old character generator chip.
3. Carefully remove the 2513 chip from location A5 on the CPU board (the 24-pin chip next to the keyboard connector) by gently prying each end upward with a small screwdriver. Be sure to pry between the chip and the socket, not under the socket. **CAUTION -Avoid causes of static electricity while installing the LCA.** Press the old chip into the black foam pad for protection, and store it in a safe place.