

All of the display modes except 80-column mode and double high-resolution graphics mode can use either of two display pages. The display maps show addresses for each mode's Page 1 only. To obtain addresses for text or low-resolution graphics Page 2, add 1024 (\$400); to obtain addresses for high-resolution Page 2, add 8192 (\$2000).

The 80-column display and double high-resolution graphics mode work a little differently. Half of the data is stored in the normal text Page-1 memory, and the other half is stored in memory on the 80-column text card using the same addresses. The display circuitry fetches bytes from these two memory areas simultaneously and displays them sequentially: first the byte from the 80-column text card memory, then the byte from the main memory. The main memory stores the characters in the odd columns of the display, and the 80-column text card memory stores the characters in the even columns.

For more details about the way the displays are generated, see Chapter 7.

To store display data on the 80-column text card, first turn on the 80STORE soft switch by writing to location 49153 (hexadecimal \$C001 or complementary -16383). With 80STORE on, the page-select switch, PAGE2, selects between the portion of the 80-column display stored in Page 1 of main memory and the portion stored in the 80-column text card memory. To select the 80-column text card, turn the PAGE2 soft switch on by reading or writing at location 49237.