

Table 4-7
Auxiliary-memory select switches

Name	Function	Location		Notes
		Hex	Decimal	
RAMRD	Read auxiliary memory	\$C003	49155 –16381	Write
	Read main memory	\$C002	49154 –16382	Write
	Read RAMRD switch	\$C013	49171 –16365	Read
RAMWRT	Write auxiliary memory	\$C005	49157 –16379	Write
	Write main memory	\$C004	49156 –16380	Write
	Read RAMWRT switch	\$C014	49172 –16354	Read
80STORE	On: access display page	\$C001	49153 –16383	Write
	Off: use RAMRD, RAMWRT	\$C000	49152 –16384	Write
	Read 80STORE switch	\$C018	49176 –16360	Read
PAGE2	Page 2 on (aux. memory)	\$C055	49237 –16299	*
	Page 2 off (main memory)	\$C054	49236 –16300	*
	Read PAGE2 switch	\$C01C	49180 –16356	Read
HIRES	On: access high-res pages	\$C057	49239 –16297	†
	Off: use RAMRD, RAMWRT	\$C056	49238 –16298	†
	Read HIRES switch	\$C01D	49181 –16355	Read
ALTZP	Aux. stack & zero page	\$C009	49161 –16373	Write
	Main stack & zero page	\$C008	49160 –16374	Write
	Read ALTZP switch	\$C016	49174 –16352	Read

* When 80STORE is on, the PAGE2 switch selects main or auxiliary display memory.

† When 80STORE is on, the HIRES switch enables you to use the PAGE2 switch to switch between the high-resolution Page 1 area in main memory or auxiliary memory.

When these switches are on, auxiliary memory is being used; when they are off, main memory is being used.

There are three more locations associated with the auxiliary-memory switches. The high-order bits of the bytes you read at these locations tell you the settings of the three soft switches described above. The byte you read at location \$C013 has its high bit set to 1 if RAMRD is on (auxiliary memory is read-enabled), or 0 if RAMRD is off (the 48K block of main memory is read-enabled). The byte at location \$C014 has its high bit set to 1 if RAMWRT is on (auxiliary memory is write-enabled), or 0 if RAMWRT is off (the 48K block of main memory is write-enabled). The byte at location \$C016 has its high bit set to 1 if ALTZP is on (the bank-switched area, stack, and zero page in the auxiliary memory are selected), or 0 if ALTZP is off (these areas in main memory are selected).