

LANGUAGE CARD S.A.M. INSTRUCTIONS

S.A.M. now comes with new versions of the programs that free up additional memory space, provided you have a 64K Apple. To use language card S.A.M. (which automatically includes the KNOBS feature described separately) you need the following files from the S.A.M. disk:

SAM.LC
RECITER.LC (if RECITER is needed)
LC.DRIVER
LOADER

LOADER is an Applesoft program that loads all the necessary binary files and then write-protects the language card. Feel free to modify this program for your own uses.

While RECITER itself does not load into the language card, RECITER.LC resides much higher in memory than ordinary RECITER. To use it set HIMEM to 32607 or lower. This frees up hi-res page 2 for your own program. (The use of SAM.LC requires no HIMEM statement.)

Language card S.A.M. works just like ordinary S.A.M. (as described in the manual) except that the addresses for the CALLs and POKEs are different. When using language card S.A.M. the following table of addresses should be substituted for the table on page 35 of the S.A.M. manual. Follow the manual to use all of S.A.M.'s features and simply substitute the appropriate new addresses from this table.

IMPORTANT ADDRESSES

	Decimal	Hex
S.A.M. from Applesoft	774	\$306
RECITER from Applesoft	816	\$330
S.A.M. from machine language	787	\$313
RECITER from machine language	829	\$33D
SLOT	772	\$304
PITCH	768	\$300
SPEED	769	\$301
ERROR	773	\$305
ASCII STRING	Special, see below	
HIMEM S.A.M.	No need to set HIMEM	
HIMEM RECITER	32607	\$7F5F
KNOBS ADDRESSES (see KNOBS instructions)		
THROAT	770	\$302
MOUTH	771	\$303
KNOBS	803	\$323

The ASCII string must be stored in the language card at \$D000 in Bank 2. Access it like this:

```
LDA $C083 ; ENABLE LANGUAGE CARD
LDA $C083
```

(Store string at \$D000-\$DFFF)

```
LDA $C082 ; DISABLE LANGUAGE CARD
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*Versions of S.A.M. and RECITER that run in Pascal are available at no charge to S.A.M. owners. Simply indicate that you want the Pascal version on your S.A.M. warranty registration card.