#### APPENDIX D

### THE BOOTSTRAP AND ABSOLUTE LOADERS

## D.1 THE BOOTSTRAP LOADER

The Bootstrap Loader should be toggled into the highest available core memory bank.

Location	Instruction
xx7744 xx7746 xx7750 xx7752 xx7754 xx7756 xx7760 xx7762 xx7764 xx7766 xx7770 xx7770	016701 000026 012702 000352 005211 105711 100376 116162 000002 xx7400 005267 177756 000765
xx7776	УУУУУУ

xx represents the highest available core memory bank. For example, the first location of the Loader would be one of the following, depending on memory size, and xx in all subsequent locations would be the same as the first.

Location	Memory Bank	Memory Size	
017744	0	4K	
037744	rebilid educiond	8K	
057744	2	12K	
077744	3	16K	
117744	mbba olima 4.2 co hajar	20K	
137744	5	24K	
157744	6	28K	

The contents of location xx7776 (yyyyyy) in the Instruction column above should contain the device status register address of the paper tape reader to be used when loading the bootstrap formatted tape, specified as follows:

Teletype	Paper Ta	ape Rea	ader	177560
High-Spee	ed Paper	Tape 1	Reader	177550

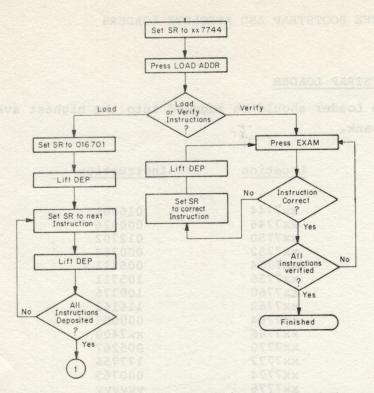


Figure D-1. Loading and Verifying the Bootstrap Loader

# D.2 THE ABSOLUTE LOADER

## D.2.1 Loading the Absolute Loader

The Bootstrap Loader is used to load the Absolute Loader into core (see Figure D-2). The Absolute Loader occupies locations xx7474 through xx7743, and its starting address is xx7500.

# D.2.2 Loading with the Absolute Loader

When using the Absolute Loader, there are three types of loads available: normal, relocated to specific address, and continued relocation (see Figure D-3).

Optional switch register settings for the three types of loads are listed below:

	Type of Load	Switch Register Bits 1-14 Bits 0		
	Type of Load	BICS 1-14	BICS 0	
Normal		(ignored)	0	
Relocated - left off	continue loading where	ogs7 rego o basque-dp m	1	
Relocated - of core	load in specified area	nnnnn (specified address)	1	

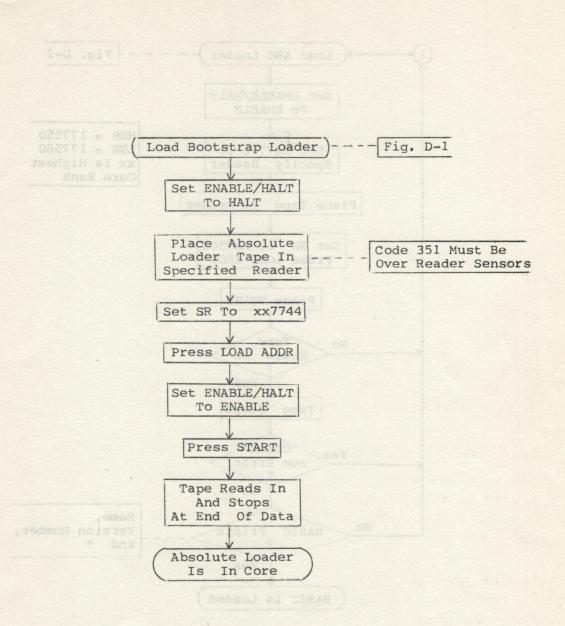


Figure D-2. Loading the Absolute Loader Into Core.

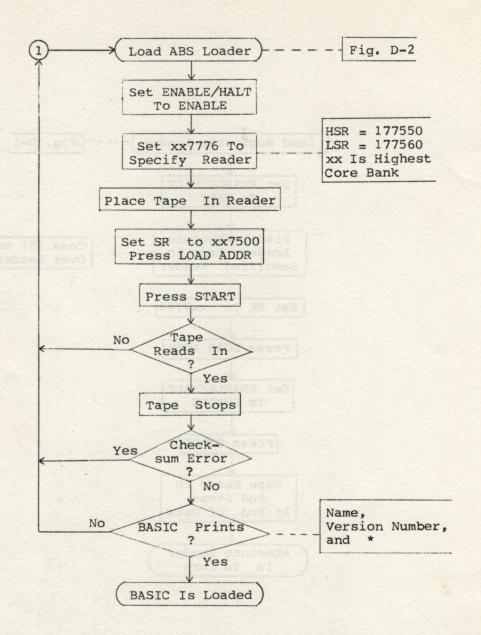


Figure D-3. Loading BASIC with the Absolute Loader.