1 2 SECTION VIII BOOT-UP SOFTWARE 4 5 8.1 Power-Up Procedure 7 begin (*run from 0*) 8 set up stack pointer 9 (*power up*) 10 if cartridge type = test 11 execute the code at starting address 12 found in location 800AH 13 else 14 disable sound chip 15 init random number generator 16 init controller buffer areas 17 defer writes = false 18 mux sprites = false 19 (*display_logo*) 10 fill VRAM with 0's 21 set up VDP to mode 1 12 load ASCII generators 23

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1	load logo generators					
2	load logo names					
5	load logo colors					
4	enable display					
5	if cartridge = game					
6	display logo and game name					
7	wait 12 seconds					
8	disable display					
9	execute the code at starting					
10	address found in location 800AH					
11	else (*cartridge not present*)					
12	display log and "insert cartridge"					
13	message					
14	wait 60 seconds					
15	disable display					
16	soft halt					
17	endif (*cartridge = game*)					
18	endif (*cartridge type = test*)					
19	end (*run from 0*)					
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8.2 Title Screen

During the power-up process, the boot-up software will look for an ASCII string of characters at Cartridge ROM location GAME NAME for display on the logo screen.

The following information should be in the string:

- 1. Cartridge title with trademark (T=1EH, M=1FH).
- 2. Original licensor of the game.
- 3. The year the cartridge is released.

Example:

DEFB "DONKEY KONG JUNIOR", 1EH, 1FH
DEFB /PRESENTS NINTENDO'S/1983"

Each string is delimited by a slash (/). The first two strings are limited to 28 characters and the last string is four characters.

8.3 Cartridge Present Identifier:

All cartridges must store OAAH at location 8000H for the OS to recognize them as cartridges that require logo display.

The OS will initialize portions of the hardware, select data areas, display the logo screen and then pass control to the cartridge program.