

SmartDSK

CartRIDGE

by
Walters Software Co.
For use with

ADAM

The ColecoVision Family
Computer System

SmartDSK CartRIDGE

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Preface:

The SmartDSK CarTRIDGE was developed by Walters Software Co. to make it easier for Adam users to boot up the SmartDSK operating system. This system also includes our ramdisk routines. Pulling the cartridge reset switch toward you, will boot the program and operating system instantaneous. Options include loading the ramdisk, saving the ramdisk, booting the ramdisk, booting SmartBASIC 1, 2, and plus from the ramdisk, booting any drive, EOS start and booting SmartWRITER. The booting from ramdisk option eliminates the need to modify the SmartBASIC file name, you can load a disk or data pack with SmartBASIC 1, 2, or plus, to the ramdisk and boot it with this option. This also eliminates the need for special setup disks or data packs. Many programs can be loaded into the ramdisk to be booted super fast. The advantages of this is to be able to boot the SmartDSK operating system with the above options and access the programs in the ramdisk super fast by pulling the cartridge reset switch. The SmartDSK III utilities and SmartBASIC can be loaded into the ramdisk, and booted when the need arises to use SmartBASIC or the utilities. Another great use is to load the ramdisk with all your clip, font, and border files, then boot up The Print Works or The Label Works and access the clip, font and border files from the ramdisk. This saves a great amount of wear and tear on your disk or tape drives, and it's much faster. There are many more ways of using these features, Adamcalc files, SmartWRITER files, SmartBASIC files and many more. They will stay in the ramdisk until the machine is turned off, or a program destroys the contents by using the memory expander. Another innovated product from Walters Software Co.

Program by James N. Walters

Manual by James N. Walters

Cartridge design by James N., and Bruce L. Walters

System Requirements.

A standard Adam Computer System, a TV or monitor, and a memory expander.

Optional Hardware.

A larger memory expander, we recommend E. & T. Software's MegaRAM. This great new expander comes with 256K, (250 blocks free), and can be expanded to a full one meg, (1006 blocks free).

Disk Drives for faster data saves and loads.

Getting Started.

1. Insert the SmartDSK CarTRIDGE into the cartridge slot with the cartridge label facing toward you.
2. Turn on your Adam Computer accessories, (disk drives, TV, monitor, printer, ect).
3. Turn on your Adam Computer.
4. Pull the cartridge reset switch toward you.
5. The program will boot and the title screen and ramdisk size will be displayed on the screen.

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*** 1006K Ramdisk Available ***

PUSH ANY KEY

Using The Program.

1. Push any key to continue.

SmartDSK CartRIDGE

I = Save Ramdisk
II = Load Ramdisk
III = Continue

1. Push Smartkey (I) to save the ramdisk to a disk or data pack.
2. Push Smartkey (II) to load a disk or data pack to the ramdisk.
3. Push smartkey (III) to continue.

Saving The Ramdisk.

1. Push smartkey (I) to save the ramdisk.

SELECT DRIVE

I = Tape 1

II = Tape 2

III = Disk 1

IV = Disk 2

2. Select the drive that will contain the media to receive the contents of the ramdisk.

INSERT MEDIA PUSH ANY KEY

3. Insert the disk or data pack if you haven't already done so, and push any key to start the copy process. The save will erase anything previously stored on the media.

4. When the process is complete the message below will be displayed on the screen.

**BACKUP COMPLETE
PUSH ANY KEY**

5. Push any key except the (ESCAPE) key to continue.

6. Push the (ESCAPE) key to return to a previous menu.

Loading The Ramdisk.

1. Push Smartkey (II) to load a disk or data pack to the ramdisk.

SELECT DRIVE

I = Tape 1

II = Tape 2

III = Disk 1

IV = Disk 2

2. Select the drive that will contain the media to be loaded into the ramdisk.

**INSERT MEDIA
PUSH ANY KEY**

3. Insert the media, if you haven't already done so, and push any key to start the load process.

4. The message below will be displayed on the screen when the load process is completed.

**BACKUP COMPLETE
PUSH ANY KEY**

5. Push any key, except the (ESCAPE) key to continue.

6. Push the (ESCAPE) key to return to a previous menu.

Continue.

1. Push Smartkey (III) to skip the load and save options. You would use this option if you have previously loaded the ramdisk.

Second Option Screen.

SmartDSK CartRIDGE

SELECT OPTION

I = Boot SmartDSK

II = Boot Drive

III = Load Program

1. Push Smartkey (I) to boot the SmartDSK ramdisk. Caution, the ramdisk must contain a bootable program, like SmartBASIC 1.0.
2. Push Smartkey (II) to boot a program from any drive.
3. Push Smartkey (III) to load a program (SmartBASIC 1, 2, plus) from a drive or the ramdisk.

Booting From The Ramdisk.

1. Push Smartkey (I) to boot the program in the ramdisk.
2. Caution, a program must have been previously loaded.

ARE YOU SURE Y/N

3. Push the (Y) key to boot the ramdisk.
4. Push the (N) key to return to a previous menu.

Booting A Program From Any Drive.

1. Push Smartkey (II) to boot a program from any drive.

SELECT DRIVE

I = Tape 1

II = Tape 2

III = Disk 1

IV = Disk 2

2. Select the drive that contains the media to be booted.
3. The program on the media in the drive selected will be booted. If you made a mistake and selected the wrong drive, pull the cartridge reset switch to boot the SmartDSK CartRIDGE.

Loading A Program.

1. Push Smartkey (III) to load a program from the ramdisk or a drive.

SELECT OPTION

I = SmartDSK II = From Drive

2. Push Smartkey (I) to load a program from the ramdisk.
3. Push Smartkey (II) to load a program from any drive.

SELECT DRIVE

I = Tape 1

II = Tape 2

III = Disk 1

IV = Disk 2

4. Select the drive that contains the media with the program to be loaded.

5. Select the program to be loaded by pushing the corresponding Smartkey.

SELECT OPTION

I = Load SmartBASIC V1.0

II = Load SmartBASIC V2.0

III = Load SuperBASIC +

IV = Load SmartWRITER

V = EOS Start

VI = Reset PGM

6. Push Smartkey (I) to load SmartBASIC 1. This can be any version that uses the original boot.

7. Push Smartkey (II) to load SmartBASIC 2. This can also be any version that uses the original boot.

8. Push Smartkey (III) to load SuperBASIC + or SuperBASIC. To boot SuperBASIC directly out of the ramdisk the boot must be changed.

9. Push Smartkey (IV) to load SmartWRITER.

10. Push Smartkey (V) to execute a EOS start. This will initialize the SmartDSK operating system and try to boot any device that contains a media, starting with disk 1. If the devices on line don't contain a media, then SmartWRITER will be booted with the SmartDSK operating system. To boot in the standard operating system, pull the computer reset switch toward you.

11. Push Smartkey (VI) to reset the SmartDSK CartRIDGE program to the title screen.

12. Push the (ESCAPE) key to return to a previous menu.

Rename Program Chart.

Name	File Name	Renamed file
SmartBASIC V1.0, ect	- BASICPGM	- BASICPGM1
SmartBASIC V2.0, ect	- BASICPGM	- BASICPGM2
SuperBASIC+, ect	- BASICPGM	- BASICPGM+

Renaming A File.

Using Modifier from SmartDSK III, rename the file according to the chart. Use these files with the load program option. With this option you can have all three basics and a block zero bootable program on one media. You may also rename a file using SmartBASIC 1, Boot up BASIC and type (poke 20482, 2 : poke 20487, 2) then push the return key. Rename the file according to the (Rename File Chart). Refer to the SmartBASIC manual for more information on renaming files. After renaming the files, type (poke 20482, 2 : poke 20487, 65) then push the return key. If you receive a file load error when trying to load a program, check the file name to see if it is renamed correctly.

Setting Up A SmartBASIC Media To Boot From The Ramdisk.

Select a freshly formatted disk, or blank data pack. Copy the SmartBASIC program, note: SuperBASIC must contain the modified boot, then copy the Basic files to the media. Your media is now ready to load to the ramdisk and be booted directly from it.

Setting Up A SmartDSK III Utilities Media to boot from the ramdisk

This can be done in two ways. Booting directly from the ramdisk, or selecting to load SmartBASIC from the ramdisk. Select a freshly formatted disk, or a blank data pack. Copy SmartBASIC with the SmartDSK'S copy program to the fresh media, then using SmartDSK'S manager, copy the SmartDSK utility files from the SmartDSK III media to your special media. Another way is to use SmartDSK'S manager to copy the BASICPGM file from the SmartBASIC media and then the SmartDSK utility files to your special media. You must then rename the BASICPGM file to the correct file name.

Setting Up A Media To Load To The Ramdisk.

Using a freshly formatted disk or a blank data pack, copy all the files that you would like to access from the ramdisk. These files can be mixed types that several programs use. It also depends upon the size memory expander installed in your Adam computer. Make sure you have space left over if you intend to add or write to existing files. If your Adam contains only a 64K expander you might consider having several medias, one for each program.

New Boot For SuperBasic+, (French Basic).

Using SmartDSK III's Toolkit, set the buffer offset to (51200), load in block zero, and type in the changes starting at location (51200). When you are finished, copy block zero back to your SuperBasic media. Using SmartDSK III's toolkit load block one, starting at the beginning of the block look for the file name (B, A, S, I, C, P, G, M, 2, 32, 3, 3, 200, 2, 0, 0, 0, 33, 0, 33, 0, 0, 0, 0, 0, 0). Change To. (B, A, S, I, C, P, G, M, 43, 2, 3, 0, 200, 2, 0, 0, 0, 33, 0, 33, 0, 0, 4, 0, 0, 0). After making the changes, copy block one back to your new SuperBasic media. Test your work by booting your modified media, if it boots up then everything is correct. If your SuperBasic won't boot, check every number to be sure they are correct, just one wrong number can cause problems. This modification will allow you to use a media with several catalogs, by coping the SuperBasic file to the media with SmartDSK III's manager. Then with SmartDSK III's toolkit copy block zero from SuperBasic to your new SuperBASIC media.

51200 : 8, 24, 3, 195, 127, 200, 49, 255, 195, 58, 24, 252, 205, 20, 253, 58, 111, 253, 33, 179, 200, 6, 1, 205, 192, 252, 194, 231, 252, 50, 190, 200, 33, 0, 152, 1, 0, 20, 205, 210, 252, 194, 231, 252, 33, 3, 200, 17, 102, 0, 1, 3, 0, 237, 176, 33, 3, 200, 17, 20, 252, 1, 3, 0, 237, 176, 205, 0, 152, 58, 98, 253, 203, 175, 203, 239, 79, 6, 1, 205, 32, 253, 205, 35, 253, 50, 99, 253, 58, 190, 200, 33, 0, 1, 1, 0, 112, 205, 210, 252, 194, 231, 252, 58, 190, 200, 205, 195, 252, 58, 111, 253, 71, 58, 98, 253, 203, 175, 79, 6, 1, 205, 32, 253, 195, 166, 200, 245, 197, 213, 229, 221, 229, 253, 229, 8, 245, 217, 229, 213, 197, 205, 89, 253, 193, 209, 225, 217, 241, 8, 253, 225, 221, 225, 225, 209, 205, 35, 253, 50, 99, 253, 193, 241, 237, 69, 205, 83, 253, 58, 111, 253, 50, 1, 65, 195, 0, 1, 0, 66, 65, 83, 73, 67, 80, 71, 77, 43, 2, 3, 0.

Booting Programs From The Ramdisk.

Almost any program will boot directly from the ramdisk. The only programs that won't, are ones that use the expander as a buffer or a different ramdisk. Programs that modify the operating system correctly will work, ones that don't modify the operating system correctly will not work. Programs that use the expander, but set it up after the program boots, will boot up OK, but will destroy the contents of the expander making future boots impossible.

Using PrBOOT With SmartDSK CartRIDGE.

After loading the ramdisk with PrBOOT compatible files. Select the boot from drive option insert the PrBOOT media and boot up PrBOOT. Use the program according to it's manual.

Programs That Make Use Of The Ramdisk.

The Print Works can access sign, card, clip, font, and border files from the ramdisk.

The Label Works can access address, and clip files from the ramdisk.

SmartBASIC 1, 2, Plus can access any SmartBASIC compatible files from the ramdisk.

SmartDSK I, for SmartWRITER can access SmartWRITER files from the ramdisk. Use this program for viewing several files by loading the disk or data pack to the ramdisk. You can also print them to an Adam or dot matrix printer.

SmartDSK II, for device number two can access AdamCalc file with AdamCalc, flash facts with Flash Card Maker, and more.

FILE LOAD ERROR

This message along with an error sound lets you know that something is wrong.

1. Trying to load the ramdisk with too many files, or trying to load to a ramdisk when no expander exists.
2. Trying to load a file that doesn't exist on a device, or the file name is incorrect.
3. Trying to use a device that doesn't exist.
4. Trying to boot a drive that doesn't contain a media.
5. A bad block on a media.
6. An expander that is not working correctly.
7. A drive that is not working correctly.

Another error is a return to SmartWRITER.

1. If you try to boot a drive that doesn't exist.
2. Some file load errors.
3. Trying to read a file that doesn't contain enough data.
4. Trying to boot a program from the ramdisk without a boot in block zero.

