



# SUPER DISK COPY



Sensible Software

-----  
**SUPER DISK COPY III**  
-----

Practically a "mini-DOS" in itself, SUPER DISK COPY III has become the standard for APPLE disk utilities. SDC III is a menu-driven program that allows manipulation of all types of files under DOS 3.1, 3.2 and 3.3. SDC III is the only disk utility available for the APPLE that combines these features: 1) COPY ANY SINGLE FILE (Integer, Applesoft, Binary, Text, or Relocatable), 2) COPY DOS, 3) COPY ENTIRE DISK, 4) BRUTE-FORCE COPY Pascal and Fortran disks, 5) UNDELETE deleted files, 6) Optional "INIT" of copy disk with optimized "skew" factors for 13 sector disks, 7) REPLACE illegal characters in filenames, 8) FIX FILE SIZES, 9) DELETE DOS to obtain up to 32 additional sectors for data storage, 10) ALPHABETIZE filenames in diskette catalog, 11) LOCK or UNLOCK files, 12) PLOT of disk usage, and 13) Optional REARRANGEMENT of files so that they occupy contiguous sectors for improved access times. SDC III now supports the APPLE wildcard characters "=" and "?" in file specifications. SDC III makes the conversions between DOS 3.2 and DOS 3.3 less painful (than MUFFIN) and also allows files to be easily transferred back to DOS 3.2 since both 13 and 16 sector disks can be accessed at the same time.

Hardware: APPLE II or APPLE II PLUS  
1 OR 2 Disk Drives  
Memory: 48K  
Language: 6502 machine language  
DOS: 3.1, 3.2, 3.2.1, or 3.3  
Includes: Diskette & User Manual  
Price: \$30.00



**Sensible Software**

APPLE is a registered trademark of APPLE Computer Company

12 1770 4113 0700

Faint, illegible text covering the middle section of the page, possibly a document header or introductory paragraph.



**COPYRIGHT ©1981 by**  
**SENSIBLE SOFTWARE, INC.**  
**All Rights Reserved**

TABLE OF CONTENTS

|   |   |
|---|---|
| INTRODUCTION . . . . .                          | 1 |
| GETTING STARTED . . . . .                       | 1 |
| MAJOR COMMANDS . . . . .                        | 1 |
| ALPHABETIZE . . . . .                           | 1 |
| BOOT . . . . .                                  | 1 |
| COPY . . . . .                                  | 2 |
| DOS COPY . . . . .                              | 2 |
| ENTIRE DISK COPY . . . . .                      | 2 |
| CONTIGUOUS COPY . . . . .                       | 2 |
| QUICK COPY . . . . .                            | 2 |
| BRUTE FORCE COPY . . . . .                      | 3 |
| FILES COPY . . . . .                            | 3 |
| DELETE . . . . .                                | 3 |
| DOS DELETE . . . . .                            | 3 |
| ENTIRE DISK DELETE . . . . .                    | 3 |
| FILE DELETE . . . . .                           | 4 |
| INIT TARGET DISK . . . . .                      | 4 |
| FIX FILE SIZES . . . . .                        | 4 |
| LOCK/UNLOCK . . . . .                           | 4 |
| NEW SLOT/DRIVE/DOS VERSION . . . . .            | 4 |
| REPLACE FUNNY CHARACTERS IN CATALOG . . . . .   | 5 |
| UNDELETE . . . . .                              | 5 |
| VIEW CATALOG . . . . .                          | 5 |
| SUB-COMMANDS . . . . .                          | 6 |
| CTRL-C or ESC . . . . .                         | 6 |
| RETURN . . . . .                                | 6 |
| SOURCE DISK/TARGET DISK . . . . .               | 6 |
| ENTER FILENAME ("=/?" MATCH ANYTHING) . . . . . | 6 |
| THE "MENU" PAGE . . . . .                       | 7 |
| DISCLAIMER . . . . .                            | 8 |
| DISK REPLACEMENT/UPDATE POLICY . . . . .        | 8 |

## INTRODUCTION

SUPER DISK COPY III commands are broken down into two groups: major commands and subcommands (or options). Major commands are the choices available to you on the initial menu page that appears when SUPER DISK COPY III is run. These commands include: ALPHABETIZE, BOOT, COPY, DELETE, INIT, FIX FILE SIZES, LOCK/UNLOCK, NEW SLOT/DRIVE/DOS-VERSION, REPLACE ILLEGAL CHARACTERS, UNDELETE, and VIEW CATALOG. Each of these major commands can have several subcommands associated with it. Subcommands include: specifying SOURCE OR TARGET DISK, specifying FILENAMES, specifying whether to LOCK OR UNLOCK, specifying disk copy modes, etc. Many of these subcommands apply to several major commands. Rather than repeat the explanation of these subcommands for each major command, the explanation of the subcommand functions will follow the explanation of the major commands.

## GETTING STARTED

Boot the supplied disk in slot 6 by typing "PR#6" from either the Integer Basic ( > ) or Applesoft Basic ( ] ) prompt. If your Apple is equipped with an Autostart Monitor ROM, you need only turn the power on with the SUPER DISK COPY III diskette in drive 1. You may also boot the supplied diskette from the Monitor prompt ( \* ) by typing "6 CTRL-P".

## MAJOR COMMANDS

### o ALPHABETIZE

The catalog from the selected disk will be read into RAM memory, sorted into ascending filename order, deleted filenames will be removed, and then the contents of RAM memory will be written back out to the catalog of the selected disk.

**WARNING:** Alphabetizing "purges" deleted files! Files deleted prior to ALPHABETIZE can not be UNDELETED after the ALPHABETIZE.

### o BOOT

Performs the equivalent of a "PR#6" command.

## o COPY

All copy modes require that the TARGET disk be properly initialized first. Any copy mode except "COPY DOS" can be used to copy from a 13 sector diskette (DOS 3.1-3.2) to a 16 sector diskette (DOS 3.3). Only the "FILE" and "CONTIGUOUS" copy modes can be used to copy from a 16 sector diskette (DOS 3.3) to a 13 sector diskette (DOS 3.1-3.2). Any copy mode can be used between diskettes that are recorded with the same number of sectors per track.

**<D>OS COPY**

Tracks \$0, \$1, and \$2 (the DOS sectors) are copied from the SOURCE disk to the TARGET disk.

Note: If SDC III was used to DELETE DOS on the TARGET disk and data is presently stored there, the DOS COPY will be aborted!

Note: The "greeting program" name is embedded in the DOS sectors and will be transferred to the TARGET disk along with DO

**<E>NTIRE-DISK COPY**

The user is requested to specify one of three techniques: "CONTIGUOUS COPY", "QUICK COPY", or "BRUTE-FORCE COPY".

**<C>ONTIGUOUS COPY**

All of the files from the source disk are copied, replacing any files already on the TARGET disk. This is considerably slower than the QUICK copy, but has the advantage of "cleaning up" by collecting scattered files and laying them down in a "straight" line.

Note: DOS sectors are NOT copied by this option, you should use the "COPY DOS" option to complete the copy!

Note: Use the COPY FILES option if you want to append files onto the TARGET disk.

**<Q>UICK COPY**

Only the "used" sectors are copied from the SOURCE DISK to the TARGET DISK.

Note: This is the fastest copy mode.

**<B>BRUTE-FORCE COPY**

Tries to copy every sector on the SOURCE DISK to the TARGET DISK. Any empty sectors on the SOURCE DISK will cause "DRIVE ERR" or "EMPTY SECTOR" warning messages to occur. These messages are normal in this copy mode and do not in themselves indicate whether the copy will be "good" or not. This copy mode will occasionally allow you to copy a disk where modifications have been made to the standard APPLE DOS structure. This copy mode can also be used to make copies of Pascal , Fortran , and CP/M disks.

Note: When either the QUICK COPY or BRUTE-FORCE COPY options are used to copy from a 13-sector disk (DOS 3.1-3.2) to a 16-sector disk (DOS 3.3), DOS will not be copied. The "COPY DOS" command should be used to copy DOS 3.3 from another DOS 3.3 disk. The catalog on the 16-sector TARGET disk will be identical to the catalog on the 13-sector SOURCE disk. This means that you will only be able to store 84 files (instead of the 105 possible on a "normal" DOS 3.3 disk). This can be avoided by use of the (slower) "CONTIGUOUS COPY".

**<F>FILES COPY**

The specified files are copied, one file at a time, from the SOURCE disk and appended to the TARGET disk.

**o DELETE**

There are 3 delete modes: DELETE FILES, DELETE DOS, and DELETE ENTIRE DISK.

**<D>OS DELETE**

The bits in the VTOC that normally prevent data storage into the DOS sectors (tracks \$0, \$1 and \$2) are reset to allow data storage into tracks \$1 and \$2. (We found that APPLE DOS has serious problems with data stored in track \$0!) Once these bits are cleared, these sectors can be used for "normal" data storage. This adds 26 data sectors (6.5K bytes) to a 13 sector disk and 32 data sectors (8K bytes) to a 16 sector disk.

Note: A disk can not be "BOOT"ed after data has been written into the DOS sectors.

**<E>ENTIRE DISK DELETE**

All of the files on the specified disk are deleted.

Note: DOS is unaffected if present on the disk.

**<F>FILE DELETE**

Only the specified files are deleted. The user is asked to confirm each deletion.

**o INIT TARGET DISK**

This command will initialize either a 13 sector or a 16 sector TARGET disk depending on the DOS selected for the TARGET disk. The newly initialized disk will have a "standard" VTOC and directory sectors but will not have DOS or a "hello" program.

Note: The first 3 tracks of 13-sector disks are created with a skew factor of "7" for faster booting. The remaining tracks are created with a skew factor of "2" for faster file access.

**IMPORTANT:** The SOURCE disk will be read before the TARGET disk is initialized to make sure that the TARGET disk is initialized with the same volume number as the SOURCE disk. This is important because an "APPLE BUG" prevents a "slave" disk from booting when it is copied onto a disk initialized with a different volume number.

Note: Either the QUICK COPY or DOS COPY command should be used to add DOS to the DOS sectors after a TARGET disk has been "INIT"ialized.

**o FIX FILE SIZES**

This command will correct the file sizes for all of the files on the specified disk and will make unused disk sectors available to the user. One (of several) reasons that unused disk sectors become "unavailable" to the user is that APPLE DOS isn't smart enough to reduce the file size when the file contents (for example, a basic program) get smaller. This, by the way, is documented in the APPLE DOS manual. Their solution -- always delete files before resaving them. Our solution -- SUPER DISK COPY III!

**o LOCK/UNLOCK**

In LOCK/UNLOCK mode, the user can either LOCK or UNLOCK specified files.

**o NEW SLOT/DRIVE/DOS VERSION**

The user can change the default settings for the above items for both the SOURCE and the TARGET disk. A carriage return will leave the value unchanged.



o REPLACE FUNNY CHARACTERS IN CATALOG

This option will convert any "illegal" characters in filenames (such as control/characters, lower-case letters, etc.) into inverse video in the catalog. The user would then be able to access the file by tracing over the filename with the cursor after issuing the appropriate DOS command ("LOAD", "RUN", etc.).

o UNDELETE

This option allows undeleting specified files as long as all of the file "pieces" (data sectors) are still available on the disk. This means that files can always be UNDELETE'd immediately after they are deleted. If additional files are saved onto the disk after the file is deleted, it may no longer be possible to UNDELETE it. This is because some (or all) of the pieces of the deleted file were written over by the "new" file(s).

Note: It is usually not possible to UNDELETE files from a "QUICK COPY" TARGET disk because QUICK COPY copies only the "used" data sectors.

o VIEW CATALOG

This option will display a normal "catalog" for the selected disk, followed by a plot of the used sectors.

**SUB-COMMANDS**

## o &lt;CTRL/C&gt; or &lt;ESC&gt;

The "ESC" key or the "CTRL/C" key can be used to cancel most commands. The only major exception to this is the "ENTER FILENAME?" question. That particular question can be aborted by pressing "RETURN".

## o &lt;RETURN&gt;

The "RETURN" key can be used to provide a default answer to many of the questions. An exception to this is the "ENTER FILENAME?" question, a "RETURN" without any preceding data cancels this command.

o <S>OURCE DISK  
<T>ARGET DISK  
PICK ONE?

This subcommand allows selection of either the SOURCE or the TARGET disk to be acted on by the selected "major" command. If a single-drive is in use and the selected disk (source or target) is not in the drive, the user will be prompted to swap disks. There will be a moment of disk activity at this point as the VTOC of the selected disk is read into RAM.

o ENTER FILENAME ("="/? " MATCH ANYTHING)  
?<filename>

This subcommand allows selection of one or more files to be acted on by the selected "major" command. If a wildcard ("?" or "=") is NOT used in the filename, then only filenames that EXACTLY match the specified filename will be selected.

If only a wildcard ("?" or "=") is entered for the filename, then ALL filenames will be selected.

If one or more wildcard characters are entered with any combination of non-wildcard characters, then any filename that has all of the non-wildcard characters in the correct order and that has none, one, or more characters in the position(s) where the wildcards were entered will be selected. The only restriction is that you cannot use two wildcard characters side-by-side (for example, "APP==E" is illegal -- use "APP=E" instead).

The "?" wildcard causes prompting on a "per file" basis in the single-file copy and delete modes. No prompting will be issued in other modes (lock/unlock, undelete, etc.) or when only the "=" wildcard character is used.

## EXAMPLES:

| <u>&lt;filename&gt;</u> | <u>matches</u>                                       |
|-------------------------|--|
| APPLESOFT               | APPLESOFT  |
| ?                       | (anything)   |
| APPLE?                  | APPLE<br>APPLESOFT<br>APPLEVISION                    |
| ?A?                     | (anything with<br>the letter "A"<br>in the filename) |

THE "MENU" PAGE

```

-----
<SUPER DISK COPY 3.x> (C) 1981 -- ALL
  SENSIBLE SOFTWARE   RIGHTS RESERVED
  your name here...

```

```

DISK  SLOT  DRIVE  DOS  SPACE  LEFT
SOURCE  6    1    3.3    107
TARGET  6    2    3.2    164

```

```

<A>LPHABETIZE & PURGE DELETED FILES
<B>OOT
<C>OPY
<D>ELETE
<F>IX FILE SIZES
<I>NIT TARGET DISK
<L>OCK/UNLOCK
<N>EW SLOT/DRIVE/DOS-VERSION
<R>EPLACE ILLEGAL CHARACTERS
<U>NDELETE
<V>IEW CATALOG

```

```

WHICH? v

```

**DISCLAIMER**

No warranty, express or implied, is made for this product or its quality, performance, merchantability, or fitness for any particular application. SENSIBLE SOFTWARE shall have no liability or responsibility to the purchaser or end user or any other person or entity with respect to any liability, loss, or damage caused or alleged to be caused by this product, including but not limited to any interruption of service, loss of business or anticipatory profits or consequential damages resulting from the use or operation of this product.

**DISK REPLACEMENT/UPDATE POLICY**

Some Sensible Software products are non-copyable. In the event that one of these "protected" disks becomes damaged or "worn out", the following policy applies:

Upon receipt of the (remains of the) disk that was originally purchased from Sensible Software and the appropriate fee (see below), Sensible Software will return to the purchaser a disk containing the latest version of the original program product. Sensible Software reserves the right to return the program product on a diskette other than the one originally purchased. If the product is still available for the retail price in effect at the time of the original purchase, the fee for this update/replacement service is \$5.00 to cover postage and handling. If the program product now retails at a higher price, the fee for this update/replacement service is \$2.00 plus the difference between the two retail prices.



**Sensible Software**

6619 Perham Drive  
West Bloomfield, Michigan 48033  
(313) 399-8877

SUMMARY OF SUPER DISK COPY III COMMANDS

---

- o ALPHABETIZE
  - : SOURCE DISK
  - ..TARGET DISK
- o BOOT
- o COPY
  - : DOS
  - : ENTIRE DISK
  - : : CONTIGUOUS COPY
  - : : QUICK COPY
  - : : BRUTE FORCE COPY
  - ..FILES
  - ..FILENAME ("=" MATCHES ANYTHING)
  - ...<filename> Y/N?
- o DELETE
  - : SOURCE DISK
  - : : DOS
  - : : ENTIRE DISK
  - ..FILES
  - ..FILENAME ("=" MATCHES ANYTHING)
  - ...<filename> Y/N?
  - ..TARGET DISK
  - : : DOS
  - : : ENTIRE DISK
  - ..FILES
  - ..FILENAME ("=" MATCHES ANYTHING)
  - ...<filename> Y/N?
- o INIT TARGET DISK
- o FIX FILE SIZES
  - : SOURCE DISK
  - ..TARGET DISK
- o LOCK/UNLOCK
  - : SOURCE DISK
  - : : FILENAME ("=" MATCHES ANYTHING)
  - : : LOCK
  - : : UNLOCK
  - ..TARGET DISK
  - ..FILENAME ("=" MATCHES ANYTHING)
  - : : LOCK
  - : : UNLOCK
- o NEW SLOT/DRIVE/DOS-VERSION
  - : SOURCE SLOT#
  - : SOURCE DRIVE#
  - : SOURCE DOS VERSION#
  - : TARGET SLOT#
  - : TARGET DRIVE#
  - ..TARGET DOS VERSION#
- o REPLACE ILLEGAL CHARACTERS
  - : SOURCE DISK
  - : : FILENAME ("=" MATCHES ANYTHING)
  - ..TARGET DISK
  - ..FILENAME ("=" MATCHES ANYTHING)
- o SHORTEN CATALOG TO 70 FILES
  - : SOURCE DISK
  - ..TARGET DISK
- o UNDELETE
  - : SOURCE DISK
  - : : FILENAME ("=" MATCHES ANYTHING)
  - ..TARGET DISK
  - ..FILENAME ("=" MATCHES ANYTHING)
- o VIEW CATALOG
  - : SOURCE DISK
  - ..TARGET DISK



**Sensible Software**