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## Tape Backup 40SC: Problems with HD Setup (9/93)

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Security: Everyone

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TOPIC -----

The Tape Backup 40SC Owner's Manual (copyright 1987, 030-5571-A) clearly states on page 29, "Important: Back up and restore to the same device. Don't back up one hard disk and restore to another".

### IMPORTANT COMPATIBILITY NOTES:

- The bundled software included with the Tape Backup 40SC is Tape Backup 40SC 2.0.1, which is INCOMPATIBLE with System 7 and later.
- Apple recommends using third-party backup software with the Tape Backup 40SC. Some third-party products that work with the Tape Backup 40SC are Retrospect and Retrospect Remote from Dantz Development Corp., and FastBack Plus from Fifth Generation Systems. Further, using of these applications will not cause the problem detailed below.

DISCUSSION -----

Here is a more in-depth explanation of the manual statement:

When using the Apple Tape Backup 40SC and Tape Backup 40SC 2.0.1 software to do a "Volume" backup, be aware of several factors. The tape backup program puts a "mirror" image of the hard drive onto the tape. In other words, the backup software starts at sector 0 and continues reading to the end of the hard drive. During this process, the backup software writes the data to the tape, sector by sector; any and all bad sectors are written onto the tape as well. This method of backup also copies information such as boot blocks, volume size, and the volume directory.

When the "Restore Volume" command is selected, the software checks the tape for the size of the volume it is going to restore. You are now prompted to select the volume you want to have restored. At this point, the tape backup program verifies that both volumes are exactly the same size. If the volume you are

restoring to is smaller than the volume on the tape backup, you get an error message and the backup program won't allow you to continue. If the volume you are restoring to is larger than the tape backup volume, you'll be able to restore, but the volume will appear to be the same size as the original volume. For example, after backing up a HD 20SC using the backup "Volume" option, then restoring it to a HD 40SC, the HD 40SC will appear to have a total of only 20 megabytes of storage.

Different versions of the HD Setup program format Apple hard drives with various amounts of total capacity. HD Setup 1.0 and 1.1 format hard drives with the same number of blocks. HD Setup 1.2 give a different number than 1.0 and 1.1, while HD Setup 1.3 and 1.4 yield yet another different number of blocks. The numbers of blocks also depends on the physical size of the disk (e.g. 5.25" vs 3.5") or manufacturer.

Apple HD Setup 1.4 and later versions format all hard drives of like capacity with the same number of blocks.

To locate a vendor's address and phone numbers, use the vendor name as a search string.

Article Change History:

27 September 1993 - Revised, removing obsolete information and adding current compatibility information.

5 November 1987 - Reviewed for technical accuracy.

1987-93, Apple Computer, Inc.

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