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HD SC Setup 7.1: Fails to Format Seagate 400MB Drive (2/95)

Article Created: 3 March 1993

Article Reviewed/Updated: 02 February 1995

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TOPIC -----

Sometimes when I try to format, for example a 400MB hard disk (part number 661-1636), HD SC Setup fails. If I use another utility like Hard Disk Toolkit, the format doesn't fail.

DISCUSSION -----

The 400MB hard drives come with jumpers on the side of the PCB which determine things like parity checking, and source of termination power. It's possible that these jumpers aren't configured appropriately for the CPU they're installed in, causing HD SC Setup to fail. STR Flash 050, at the end of this document, gives specific information regarding this to help you verify the jumper setting.

Apple HD SC Setup is fairly robust; so if the jumper settings aren't the problem, then there could be a problem with the hard disk assembly itself. We suggest running the Macintosh Hard Disk Test diagnostic on the drive to see if it passes. You can also run the TEST portion of Apple HD SC Setup.

The 400MB (Seagate) drive ships from Finished Goods configured differently for the Quadra 700 than it does for the 900/950.

On one side of the 400MB HDA (Service P/N 661-1636) there is a new connector (J6). When Engineering was testing the drive prior to intro., they neglected to ask Seagate to spec. the drive without the connector (like our other drives). So, this connector is on all Finished Goods and Service drives and will stay on the drive.

The connector has important significance when the drive is installed in a Quadra 700 and 900/950 configuration. The Service drive should ship with Pin 5, 7, and 8 jumpered. However, Finished Goods ships differently depending on the CPU it is in.

Connector pins to be aware of....

- Pin 5 is for parity checking and error reporting. - always jumpered!!!!
- Pin 7 - drive supplies power to the SCSI bus (through pin 26 of SCSI cable) Quadra 900/950.
- Pin 8 - drive supplies power only to its own terminators (Quadra 700).

If the 400MB HDA does not have the correct pins jumpered on connector J6, please use the chart below to make sure your 400MB drive is jumpered correctly.

	Term. Res. Packs		Spacer		Connector J6	
Quadra 700	I		I		I	
	I	Installed	I	Installed	I	Jumpers on Pins 5 & 8
	I		I		I	
Quadra 900/950	I		I		I	
	I	Not Installed	I	Not Installed	I	Jumpers on Pins 5 & 7
	I		I		I	

*** If Pins 7 & 8 are both jumpered, the drive will figure out where to go for termination. This is the best configuration.

Article Change History:

02 Feb 1995 - Changed access privileges of article.

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Keywords: hts

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19960215 11:05:19.00

Tech Info Library Article Number: 11560