

ExtraHD4000

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REVISION HISTORY

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Chapter 1

ExtraHD4000

1.1 Add an Extra Hard Disk To Your A4000/030

How To Add An Extra Hard-Disk To Your A4000/030

Typed and Edited by Craig

Note!

Please note that although these procedures have been tested, as with all projects of this type, you could damage your Amiga by not following precautions against static. Always use an anti-static strip (available from Maplins) and treat all components with extreme care!

Information

"Aha!", I hear you cry, "I've already got 120 or 80Mb disk space! Why would I want more ?"

The truth of the matter is that you can never have too much disk space. What you have may seem like a lot, but once you start loading up programs such as Imagine, and Art Department Professional, space will soon begin to get short.

Graphics are exceedingly greedy for disk space, especially if you're working with 24-bit images, which can quite often take up more than a megabyte. Once you start getting into high resolution 24-bit animations, you'll soon understand why people like Foundation Imaging need several gigabytes of space.

The hard disk interface built into the A4000/030 is an IDE (Intelligent Drive Electronics) standard, which can cope with up to two hard disks. One disk is designed as a master drive, and the other is a slave to this. Both drives have their own controllers, and all of the cabling is already included in your A4000/030.

You can easily fit two 3.5-inch drives inside the case, but you will need an extra cable if you are planning to connect a device such as Power's IDE SyQuest drive or a tape streamer, which has to be mounted against the front panel.

All the cabling you need to install an extra hard disk is already in place,

so all you need to do is to get hold of the hard disk mechanism, but check the hard disk is compatible before you buy it.

Certain types of IDE drive refuse to work with other manufacturer's hard drives, or in some cases other models of drive from the same manufacturer. Regrettably, there are no hard and fast guidelines to check compatibility, although I have tested a variety of mechanisms with no problem. The only hard and fast rule is to ensure that the drive you are buying has been tested on an Amiga. Once you've got hold of you're extra drive, follow these instructions:

ADDING A HARD DRIVE

- 1) Remove the two screws on the back and lift off the Amiga's cover. Remove the four screws which hold the drive in place and lift it out. Remove both cables from the drive.
- 2) Set the jumpers on both drives. You will need to refer to the manual for the new disk to configure it as a slave drive. The Seagate drive included with the A4000/030 is set to expect a slave drive by putting a jumper on the third set of pins (counting outwards from the 50 way connector).
- 3) Replace both drives in the cradle, and replace this in the machine. Connect the IDE cable and power cables to the drive. Put the Amiga back together and reboot your Amiga.
- 4) When you reboot, don't be surprised if no icons appear for the second drive. Run HDtoolbox, which should pick up the second drive as Address 1. Click on the drive, and select Change Drive Type. Click on Define New, and Read Configuration. This should read the drive attributes. Click on OK, and you should see the drive in the list of types. On the main screen, click on Save Changes To Drive, and Exit. Reboot, and you should see an Icon for the drive. You can now format it, and then install your software!

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