
Subject: Need help: SCSI id newbie

Posted by [vintage-macs](#) on Mon, 17 Apr 2017 14:52:53 GMT

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Hi everyone!

I am in need of help from the amazing gurus here. I

Can anyone tell me:

1. If the jumpers are right in order for this to be an internal hard drive for a Mac IIx?
2. What would the jumpers be set to if this were put into an external enclosure with scsi id 5?
3. Any help with getting the drive to be recognized...because right now...nothing can see that the drive is attached.

I have an apple quantum fireball st 2gb harddrive that was running fine, and I made a blunder. It was in a power mac 7200 and I foolishly took it out and put it into an external enclosure (applecd 300) the enclosure did not have the terminator plugged into the back. I was running the patched version of Apple HD sc setup 7.3.5. Part way through the drive erase process the computer froze and I had to unplug it from the wall. After that the hard drive would no longer be recognized. When it stopped being recognized, I started playing with the terminators...I have no idea why I did that...I'm also not sure that it's jumpered correctly now, which might add to its issues now.

I found this page which seems to tell me the answer but it might as well be in Japanese because I do not understand what it is trying to tell me.

http://www.mfarris.com/hard_drives/quantum/quantum_fireball_st_21s.html

I have attached some photos of the drive, in the hopes that a kind soul will help me out and tell a newbie how to save this drive. :).

Ps I need this to literally be in simple terms like: put the black jumper on the 3rd pin from the right side of the picture.)

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Subject: Re: Need help: SCSI id newbie

Posted by [Jonathan Morton](#) on Mon, 17 Apr 2017 19:16:21 GMT

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> On 17 Apr, 2017, at 17:52, 'mossheart9' via Vintage Macs <vintage-macs@googlegroups.com> wrote:

>

> 1. If the jumpers are right in order for this to be an internal hard drive for a Mac IICI?

Possibly. It's set for ID 0, which is fine.

SCSI bus termination is a bit of a black art. You could try moving the jumper one place to the right (from TE to PK) to remove termination. PK (probably short for "park") is a dummy position for storing a spare jumper.

> 2. What would the jumpers be set to if this were put into an external enclosure with scsi id 5?

To select SCSI IDs, you just need to make sure every device on the same bus has a unique ID. The SCSI controller itself uses ID 7. Usually the primary internal drive is given ID 0, so that it is scanned first. CDs are usually set to 3 or 6, but check this or simply disconnect them for troubleshooting.

So it doesn't particularly matter what ID an enclosure is set to - the enclosure itself doesn't occupy or enforce an ID. Usually the dial on the outside of an enclosure is connected to the ID pins so you don't have to fiddle with jumpers yourself.

If you really do want ID 5, you need to put jumpers on the rightmost and third-from-right pins (A0 and A2). It's probably easier to select IDs 1, 2, or 4 by putting your single jumper on A0, A1, or A2 respectively. Or use your enclosure's selector after connecting it properly. You could also try connecting the enclosure's activity LED (if there is one) to the pins just to the left of TE, where your jumper is now.

> 3. Any help with getting the drive to be recognized...because right now...nothing can see that the drive is attached.

The other potential problem is: you don't show it with a power plug. Giving a drive power usually helps with getting it recognised. You should be able to hear it spin up.

- Jonathan Morton

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Subject: Re: Need help: SCSI id newbie
Posted by [vintage-macs](#) on Mon, 17 Apr 2017 20:02:05 GMT
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Thank you so much for the help on the SCSI id.
I was really hoping that the jumpers were wrong. :(
It sounds like it is correct, which means that the problem with the drive is software related.
Haha yes I had the power plugged in but disconnected it while I was playing with it because the cord is so short.

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Subject: Re: Need help: SCSI id newbie

Posted by [vintage-macs](#) on Mon, 17 Apr 2017 20:05:14 GMT

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The weird part is that I do NOT hear or feel it spin up. It makes a very faint click or thud that can only be heard if u have the drive pressed to your ear and the room is perfectly quiet.

Any thoughts on that?

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Subject: Re: Need help: SCSI id newbie

Posted by [Jonathan Morton](#) on Mon, 17 Apr 2017 22:12:38 GMT

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Yeah, if its not spinning, you'll have problems. The problem is probably some form of stiction, which you can usually clear by giving it a good thump on the top panel. Once the drive is running, try scanning for it again.

- Jonathan Morton

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Subject: Re: Need help: SCSI id newbie
Posted by [vintage-macs](#) on Wed, 19 Apr 2017 04:09:53 GMT
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Major success today. I had never heard of sticktion so thank you so much! Because of your tip, I came across this website that had a video of a guy opening a quantum drive.
<http://hackaday.com/2015/10/13/macintosh-hard-drive-repair/>
I decided to try to open mine and unstick it permanently. I was all prepared to replace goopy bumpers but when I opened mine it was different inside (I guess they had changed the design.) see the photos. Mine was really basic inside. With the power off and the drive in my hand I spun the platter with my finger. In one picture there is a screw driver pointing to the part that I touched with my finger to spin it. I did not touch the gold discs. I put the top on and plugged it into power and it started to spin! I put it inside my iici (as the only hard drive) and attempted to boot up. It spins now, but it won't recognize/. I tried the official Apple system 7.5 disc tools floppy with both Apple HD sc setup 7.3.2 and disk first aid and they couldn't see the drive. I left the jumper in the same spot it was in in the previous pictures. I'm going to try following section 2.2.2 on this page and I'll post the result. <http://macfaq.org/hardware/harddisk.shtml>

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Subject: Re: Need help: SCSI id newbie

Posted by [vintage-macs](#) on Sat, 22 Apr 2017 04:31:43 GMT

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I just wanted to post back that it worked! And here's how it happened. After taking the drive apart and unsticking it. I set the jumper on A1. Then I put it into an applecd150 enclosure and connected to my iici. Then I used alliance power tools 2.7.3 and formatted the drive. Then shutdown and turned it back on. Then I used the patched Apple HD sc setup 7.3.5 to initialize the drive. After that...it worked!!!!

Jonathan I couldn't have done it without you! You rule!!!!

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