



Tech Info Library

Apple 40, 80, 160MB Hard Drives: Termination & SCSI ID (10/95)

Article Created: 9 July 1992

Article Reviewed/Updated: 30 October 1995

* RESTRICTED: Apple Internal and Support Providers Only *
Not For General Public Release

TOPIC -----

I just received a Macintosh LC with a new 3.5-inch (1-inch high) internal HDA. This new drive doesn't have any removable termination resistors. If I want to convert this to an external drive, how do I remove termination?

DISCUSSION -----

Apple has just begun shipping new 40MB, 80MB, and 160MB 3.5-inch (1-inch high) internal drives for these systems:

Begin_Table

Drive	Part Number	Systems
----	-----	-----
40MB	661-0614 (previously 661-0773)	Macintosh Classic Macintosh Classic II Macintosh LC Macintosh LC II Macintosh IIsi
80MB	661-0624 (previously 661-0774)	Macintosh Classic Macintosh Classic II Macintosh LC Macintosh LC II Macintosh IICI Macintosh IIsi Macintosh Quadra 700
160MB	661-1647 (previously 661-1649)	Macintosh LC II Macintosh IIsi

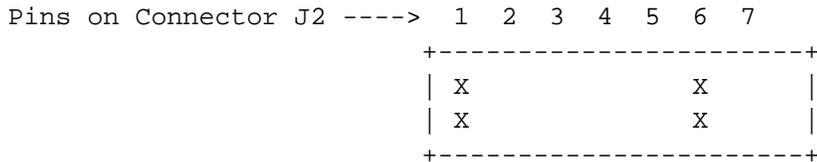
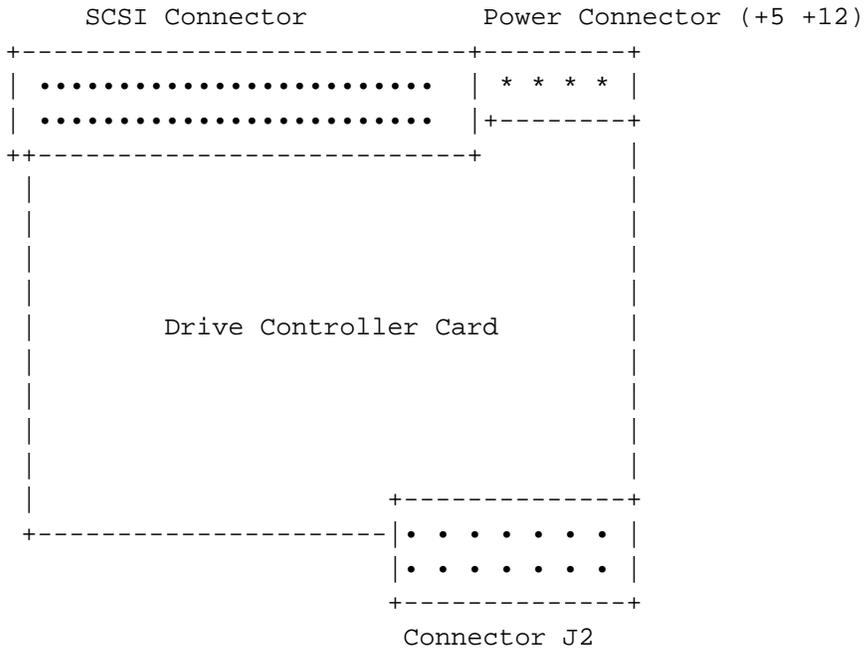
End_Table

Apple Engineering, Service, and Marketing sometimes decide to ship hard drives

in certain configurations based on availability, pricing, and technical specifications (such as term power, power draw, and so on). Keeping this in mind, it is important to use and/or order the correct part for the corresponding Macintosh system. Apple DOES NOT SUPPORT configurations when drives are used in systems for which they were not intended.

Since the above strategy is not always followed and Apple Service receives numerous requests for hard drive specifications, we have elected to post relevant SCSI information for our customers to minimize calls and confusion.

The new drives listed above DO NOT have removable termination resistors. Instead, the drives are terminated or not terminated by removing or installing a jumper on pin 6 of connector J2. The connector is located on the opposite side of the SCSI interface connector on the drive controller card. This chart shows the layout when the drive controller card is facing up.



In the above illustration, the jumper on pin 1 indicates SCSI ID #1, and the jumper on pin 6 provides termination.

- To select the SCSI ID address number, install a jumper on pins 1, 2, and/or 3 in accordance with this chart.

SCSI ID #	Jumper Position
0	None
1	Pin 1

2	Pin 2
3	Pins 1 and 2
4	Pin 3
5	Pins 1 and 3
6	Pins 2 and 3
7	Pins 1 and 2 and 3

- Pin 4 is not used.
- Pin 5 is used for auto spin-up operation.
- Pin 6 is used for SCSI termination.
 - Jumper in place -- TERMINATED
 - Jumper not in place -- UNTERMINATED
- Pin 7 is for user LED interface.

Article Change History:

30 Oct 1995 - Changed title to better reflect contents.
28 Oct 1992 - Corrected to include new part numbers for drives.

Support Information Services
Copyright 1992-95, Apple Computer, Inc.

Keywords: <None>

=====
This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number: 10388