## Tech Info Library

## IBM 40/80/160/500/1000 MB HDA: SCSI ID (5/95)

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TOPIC -----

I noticed that Apple has been using an IBM Hard Disk, model WDS-L80 for the Service P/N 661-0624. On the circuit board, there is a connector labeled J2 (with pins 1 to 14.) I would like to know the pin's assignment so I know which are the SCSI address pins, the HD LED pins, and the SCSI termination pins.

DISCUSSION -----

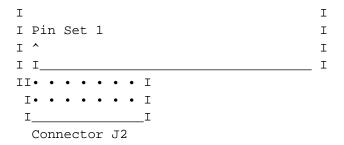
The SCSI information on the IBM 80 MB 3.5/1", as well as, the IBM 40 MB, 160 MB, 500 MB, and 1 GB 3.5 1-in. drives is listed below.

## IMPORTANT:

The 40/80/160/500/1000 MB IBM drives do NOT have removable termination resistors. Instead, the drives are terminated or not terminated by removing or installing a jumper on pin 6 at connector J2. The connector is located on the opposite side of the SCSI interface connector on the drive controller card.

The following chart shows the layout of the drive controller card when it's face up.

	SCSI	Connector	Р	ower	Coi	nnector	(+5	+12)
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Pins on Connector J2 ----> 1 2 3 4 5 6 7

ΙX	X	I
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In the illustration above, the jumper (XX) on Pin Set 1 indicates SCSI ID #1 and the jumper (XX) on Pin Set 6 provides termination.

- To select the SCSI ID, install a jumper on pin sets 1, 2, and/or 3 according to the following chart.

ID	Jumpe	er	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

## NOTE:

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

Article Change History:

04 May 1995 - Added 1 GB Hard Disk to the article.

28 Feb 1995 - Added 500 MB Hard Disk to article.

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