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Apple 500MB & 1GB Hard Drives: SCSI Pin Configuration (7/95)

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TOPIC ---

What is the SCSI pin configuration for Apple's 500 MB and 1 GB hard drives?

DISCUSSION --

Remember to use Apple drives only in the systems for which they were originally
intended. Apple ships hard drives in certain configurations due to availability,
pricing, and technical specifications (such as termination power and power
draw). It is important to order and use the correct part for the corresponding
Macintosh system.

The 500 MB and 1 GB Seagate drive SCSI pin configuration information is as
follows:

```
.         SCSI and Power Connector end
.         _____
.         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII I
.         I_____I
.         •                                       I
.         • SCSI ID pins                          I
.         •                                       I
.         I                                       I
.         I                                       I
.         I                                       I
.         I                                       I
.         I                                       I
.         I                                       I
.         I Connector J6                          I
.         I••••••_____I
.                 --> Also Known as A0
.                 I
.                 I
.                 Pin set 1
```

```
Connector J5
-----------------
.
.           I I              ------------I--------------
.   • • •   I ISCSI       SCSI ID = 0  I No Jumpers
.   1 2 3   I IConnector  ------------I--------------
.   • • •   I I           SCSI ID = 1  I Jumper A0
.   I I I   I I              ------------I--------------
.   I I I                 SCSI ID = 2  I Jumper A1
.  A0 I A2                ------------I--------------
.     I                   SCSI ID = 3  I Jumper A0, A1
.     A1                  ------------I--------------
.                         SCSI ID = 4  I Jumper A2
.                         ------------I--------------
.                         SCSI ID = 5  I Jumper A0, A2
.                         ------------I--------------
.                         SCSI ID = 6  I Jumper A1, A2
.                         ------------I--------------
.                         SCSI ID = 7  I Jumper A0, A1, A2 (MAC ID)
.                         ------------I--------------

Connector J6 - Considered Auxiliary SCSI ID connector
----------------
.                         ------------I--------------
.   • • • • • •           SCSI ID = 0  I No Jumpers
.   1 2 3 4 5 6           ------------I--------------
.   • • • • • •           SCSI ID = 1  I Jumper A0
.   I I I                 ------------I--------------
.   I I I                 SCSI ID = 2  I Jumper A1
.   V I V                 ------------I--------------
.  A2 I A0                SCSI ID = 3  I Jumper A0, A1
.     V                   ------------I--------------
.     A1                  SCSI ID = 4  I Jumper A2
.                         ------------I--------------
.                         SCSI ID = 5  I Jumper A0, A2
.                         ------------I--------------
.                         SCSI ID = 6  I Jumper A1, A2
.                         ------------I--------------
.                         SCSI ID = 7  I Jumper A0, A1, A2 (Mac ID)
.                         ------------I--------------
.                         Sync Spindle I No Jumper
.                         ------------I--------------
.                         Remote LED   I No Jumper
.                         ------------I--------------
```

Both these drives have an additional connector (J2), which is located on the top of the drive printed circuit board (PCB) and contains the following pin sets:

```
Connector J2
-------------------
```
• Pin set 1 - TP - Term. Power from SCSI Bus - Jumper Installed
• Pin Set 2 - TP - Term. Power to SCSI Bus - Jumper Installed
• Pin set 3 - SS - Self Seek - NO JUMPER

- Pin Set 4 - PE - Parity Enabled - Jumper Installed
- Pin Set 5 - WP - Write Protect - NO JUMPER
- Pin Set 6 - ME - Motor Enable Option - NO JUMPER
- Pin Set 7 - DS - Motor Delay Start Option - NO JUMPER
- Pin Set 8 - RS - Reserved (Future Use) - NO JUMPER

Apple only supports drives in configurations for which they were intended. If an internal drive, or any drive for that matter, is installed in an external case, but is not sold by Apple in this configuration, Apple does not support it.

Article Change History:
31 Jul 1995 - Corrected misspellings; reformatted; reviewed for accuracy.
08 Dec 1994 - Specified that information is for Seagate drives.
24 Sep 1993 - Corrected orientation of Pin Set 1 on connector J6.

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