Macintosh Duo Dock: Hard Drive Installation & Replacement (3/1)

Article Created: 1 March 1993

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

TOPIC ---

How can I install an internal hard drive in a Macintosh Duo Dock?

DISCUSSION --

Here's what you need to know.

SCSI ID

Because the PowerBook Duo has a SCSI ID of 7, and its internal hard drive
is configured with a SCSI ID of 0, any hard drive installed in the Duo Dock
must be configured for other than SCSI ID 7 or 0.

The Macintosh Duo Dock ships either with or without an internal hard drive.
When an internal hard drive is installed within the Duo Dock, it is
configured with a SCSI ID of 1.

If a service provider is replacing an Apple 230MB disk drive, or installing
a third-party hard drive in the Duo Dock, the SCSI ID must be other than 0
or 7. (See below for Apple 230MB drive instructions).   Service provider
installing other than an Apple hard disk drive must contact the drive
manufacturer for SCSI ID specifications.

The Apple 230MB hard drive module (P/N 661-1637) ships from Service without
a SCSI ID jumper (SCSI ID=0). This drive must be reconfigured in order to
work in the Duo Dock.

Installation

When removing an Apple 230MB hard drive from the Duo Dock, please remove
the jumper from the SCSI Select pins and install it accordingly on the
replacement module.

The Apple 230MB hard disk drive must be configured as follows. On the disk
drive's PCB are six pairs of jumper pins that allow control of the drive

operation. The first three jumpers control the drive's mode of operation:
- SS - Self Seek - Apple default/No Jumper Installed
- EP - Enable Parity - Apple default/Jumper installed
- WS - Wait/Spin - Apple default/No Jumper Installed

Used in combination, the jumper settings across pins A2, A1, and A0 determine
the hard disk drives SCSI bus identification (SCSI ID).

                Jumper Settings

```
    +------------------------------------------------+
    I   A2     I     A1     I     A0     I   SCSI ID   I
    I---------I-----------I-----------I-------------I
    I   OFF    I     OFF    I     OFF    I      0       I
    I---------I-----------I-----------I-------------I
    I   OFF    I     OFF    I     ON     I      1       I
    I---------I-----------I-----------I-------------I       ON = Jumper
    I   OFF    I     ON     I     OFF    I      2       I       OFF = No Jumper
    I---------I-----------I-----------I-------------I
    I   OFF    I     ON     I     ON     I      3       I
    I---------I-----------I-----------I-------------I
    I   ON     I     OFF    I     OFF    I      4       I
    I---------I-----------I-----------I-------------I
    I   ON     I     OFF    I     ON     I      5       I
    I---------I-----------I-----------I-------------I
    I   ON     I     ON     I     OFF    I      6       I
    I---------I-----------I-----------I-------------I
    I   ON     I     ON     I     ON     I      7       I
    +------------------------------------------------+
```

IMPORTANT: THE 230MB HARD DISK DRIVE FROM SERVICE (P/N 661-1637) IS CONFIGURED
AT ID=0 AND MUST BE RECONFIGURED BEFORE INSTALLATION IN THE DUO DOCK.

If a service provider fails to remove the jumper before returning the drive to
Apple, Service will offer P/N 517-0546 (10 pack - Connector, Jumper, 2P Low
Profile, Gold) on the April Price Pages.
Copyright 1993, Apple Computer, Inc.

Keywords: <None>

==

This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number: 11621