7131A

131 MByte
Integrated AT Controller
Hard Disk Drive
Installation Guide

Maxtor

Before You Begin

Maxtor disk drives are precision products. Failure to observe the precautions and guidelines outlined here may lead to product failure, damage, and invalidation of all warranties.

1. BEFORE unpacking or handling a drive, take all proper electro-static discharge (ESD) precautions, Including personnel and equipment grounding. Stand-alone drives are sensitive to ESD damage.
2. BEFORE removing drives from their packing material, allow them to reach room temperature.
3. During handling, NEVER drop, jar, or bump a drive.
4. Once a drive is removed from the Maxtor shipping container, MMEDIATELY secure the drive within a chassis. Otherwise, store the drive on a padded, grounded, antistatic surface, with the PCBA parallel – not perpendicular-to that surface.
5. *NEVER* switch DC power onto the drive by plugging an electrically live DC source cable into the drive's interface connector.

Please do not remove or cover up Maxtor factory-installed drive labels. They contain information required should the drive ever need repair.

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Installation Steps

- ❑ Install a 40-pin ribbon connector. The striped edge of this cable indicates pin 1 and must be oriented towards pin 1 at the drive connector and at the host connector.
- ❑ install a DC power connector.
- ❑ If AT BIOS supports a user-programmable drive type, program the BIOS with these default parameters: 1002 cylinders, 8 heads, and 32 sectors.
- ❑ If the AT BIOS does not support a user programmable drive type, choose parameters that closely match, but do not exceed, the drive's formatted capacity.
- ❑ The drive is now ready for partitioning and high-level formatting with any operating system. For example:

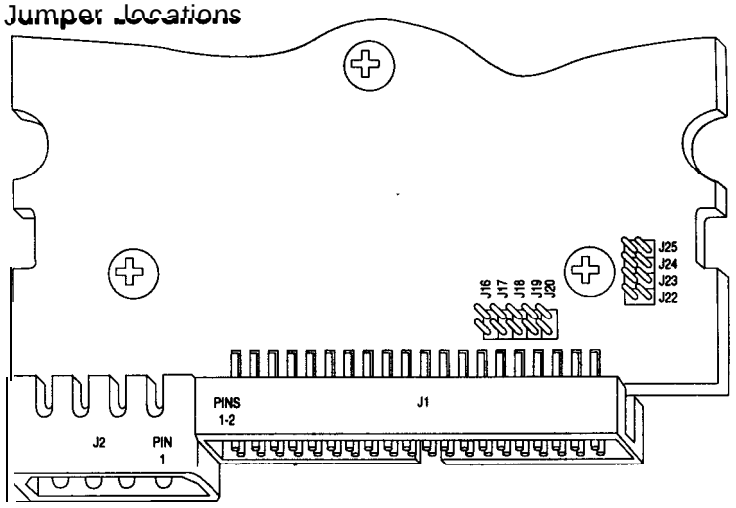
  Partition the drive using the FDISK command from MS-DOS version 3.3 or higher.

  High-level format the drive using the FORMAT command from MS-DOS version 3.3 or higher.

- ❑ Secure the drive in a suitable drive bay with 6-32 x 1/4" screws.

Note: WPC and Landing Zone BIOS entries do not need a specific number for proper operation. Maxtor AT interface hard drives will ignore and override any numbers programmed.

Jumper Locations



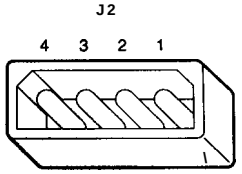
Technical Notes

- ❑ Drive is low-level formatted with 1:I interleave at factory – with any defects retired to a dedicated, non-destructive zone.
- ❑ Jumper J25 factory reserved. Jumper J19 is a spare shunt.
- ❑ Maxtor defines one ~~megabyte as 10^6 or one million bytes~~.

Jumper Designation	J24	J23	J22	J20	J18	J17	J16
Cable Select							
Disabled*	D						
Enabled	J						
Write Cache							
Enabled*		0					
Disabled		J					
Drive Compatibility							
Disabled*			0				
Enabled			J				
Master/Slave							
Only drive in single drive system*				J			
Master in dual drive system				J			
Slave in dual drive system				D			
Low Power Spin Mode							
Disabled*					0		
Enabled					J		
ECC							
11 -Byte*						0	
4-Byte emulation						J	
I/O Channel Ready							
Option Disabled*							0
Option Enabled							J

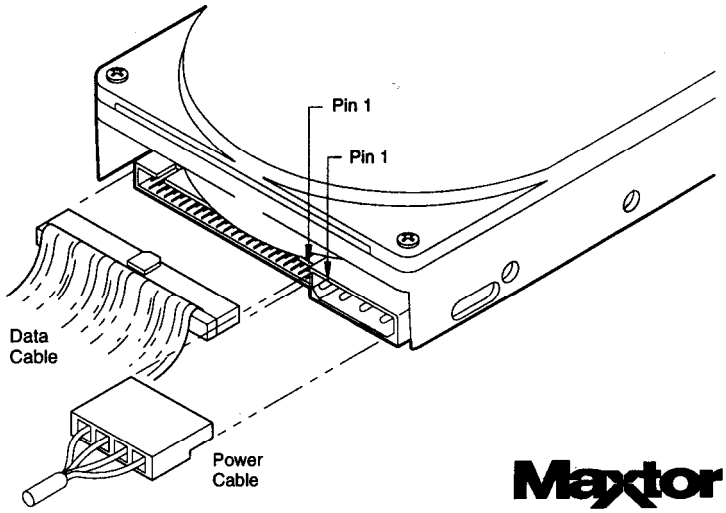
• = Default J = Jumpered 0 = Open.
Note: Jumper J25 factory reserved. Jumper J19 is a spare shunt.

DC Power Connector



Pin1=+12Vcc
Pin 2 = +12 V Ground Return
Pin 3 = +5 V Ground Return
Pin4=+5VDC

Interface and Power Connections



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