DH0133 Specifications, Jumper Settings & Notes

Specifications

Model Suffix	**500i**
Formatted Capacity (MB)*	**527**
Interface Type	AT–IDE (16–bit)
Performance	
Average Seek Time (ms)	12
Track–to–Track Seek Time (ms)	3
Max. Sustained Data Transfer Rate (MB/sec)	5.82 – 3.4
Max. Burst Data Transfer Rate (MB/sec)	10
Rotational Speed (RPM)	4,500
Average Latency (ms)	6.67
Cache Size (KB)	256
Recording Method (RLL)	1,7
MTBF (Hours)	250,000
Mechanical Characteristics (USER-DEFINED PARAMETERS)	
Number of Cylinders	1,023
Number of Data Heads	16
Sectors-per-Track	63
Total Number of Sectors	1,031,184
Environmental Characteristics	
Operating Temp. Range °F (°C)	41–131 (5–55)
Non-Operating Temp. Range °F (°C)	-40–140 (-40–60)
Operating Humidity Range (%)	8–80
Non-Operating Humidity Range (%)	8–80
Max. Wet Bulb °F (°C)	84 (29)
DC Input Requirements	
+12V Current (amps)	
Worst Case (startup)	1.2
Typical	0.2
+5V Current (amps)	
Worst Case (startup)	0.5
Typical	0.33
Power (watts)	
Worst Case (startup)	18
Typical	4
Drive Physical Characteristics	
Dimensions (HxWxD) (inches)	1 x 4 x 5.75
Drive Weight (lbs/kgs)	1.2 / 0.53

PR–IDE Drive Types—Compaq & AST Bravo

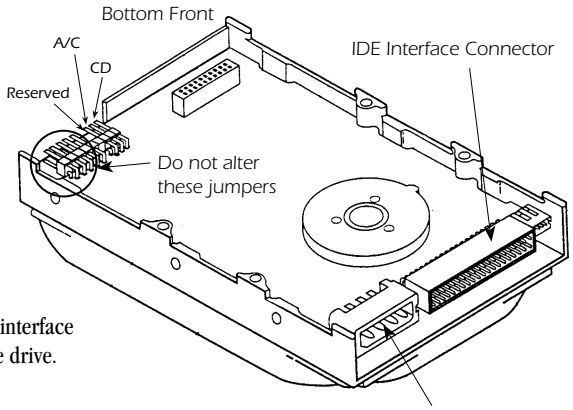
Some Compaq systems automatically set the drive type for IDE disk drives (PR–IDE drives). If this is not the case with your Compaq, use the table below to determine the drive type.

Model	Drive Type for Compaq	Drive Type for AST Bravo
500i	42[1]	None[2]

[1] Type **42** sets the PR–IDE drive's formatted capacity at 528MB. Using Procom Technology's AT–IDE host adapter with the PR–IDE drive will provide a formatted capacity of 540MB.

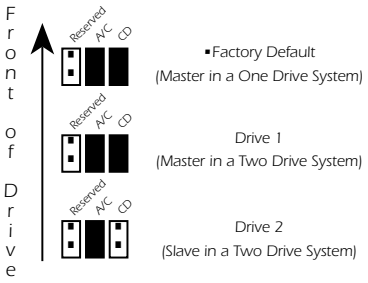
[2] The AST Bravo requires the use of a Procom Technology AT-IDE host adapter to install the PR–IDE 500i, as the Bravo does not support this model in its drive table. The drive's capacity will be 540MB.

Jumper Settings



Note

There is no LED interface connector on the drive.



Important!

If the PR–IDE drive is to be configured as a slave drive and the primary drive is an ISA drive, remove the A/C jumper to enable the 500i's ISA mode.

PR–IDE User–Defined Parameters

Some computers may not have a drive type that corresponds exactly to the PR–IDE drive parameters shown under the **Mechanical Characteristics** section in the specifications to the left. Since the drives will automatically configure themselves according to the drive type selected, you can use any drive type that approximates the PR–IDE parameters, as long as the *total number of sectors* of the chosen drive type *does not exceed 1,031,184*. Find a drive type which most closely matches the suggested user-defined parameters (see the table at left), then calculate the total number of sectors of the chosen drive type using the formula:

T=C x H x S

T = **total** number of sectors
C = number of **cylinders**
H = number of **heads**
S = number of **sectors** per track

Some systems allow a user-definable drive type. If your system allows this, select the ***user-defined drive type*** (commonly **48**, **49** or ***User-Defined***, but consult your manual first), then enter the **Mechanical Characteristics** appropriate for your PR–IDE drive as shown in the specifications to the left. To enter the drive values into the user-defined drive type setup, you must use the SETUP utility included with your computer instead of using Proset.

- PIRA, PIRA 50, and PIRA 55 jumper settings are shown in the default jumper setting in the figure above.

* Capacity calculated using 1,000,000 bytes = 1MB.

Specifications subject to change without notice. Specifications may vary with different operating environments.

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