

***WD1002***

***WD1003***

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***USER'S GUIDE***

***IMPORTANT  
USER INFORMATION  
DO NOT DISCARD***

*Making the leading edge work for you.*

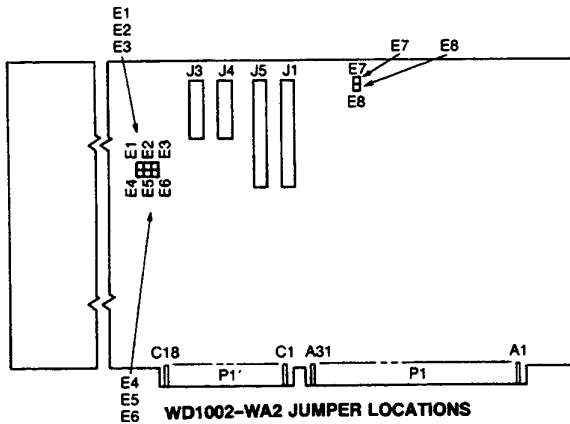
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***WESTERN DIGITAL***



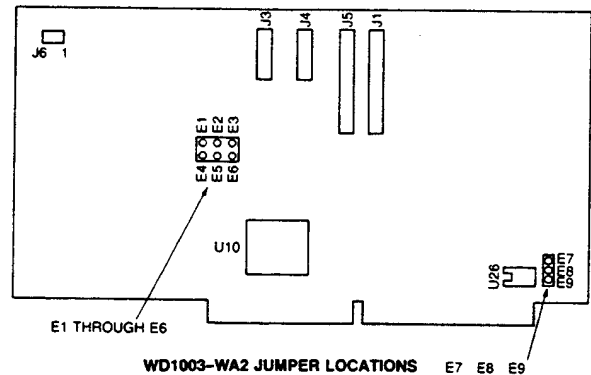
## WD1002-WA2 JUMPER SETTINGS

PIN CONNECTS	DESCRIPTION NOTE
	DO NOT MOVE <b>PRIMARY</b> ADDRESS JUMPERS UNLESS YOUR OPERATING SYSTEM IS CONFIGURED TO ACCEPT TWO HARD DISK CONTROLLERS. CERTAIN OPERATING SYSTEMS SUPPORT TWO CONTROLLERS IN THE SAME SYSTEM. IBM DOS AND MANY IBM-COMPATIBLE OPERATING SYSTEMS DO NOT SUPPORT THIS FEATURE.
E2 to E3	Standard factory setting. Selects primary address 3F2, 3F4/3F7 hex for the floppy disk drives.
E5 to E6	Standard factory setting. Selects primary addresses 1F0 hex through 1F7 hex, and 3F6 hex and 3F7 hex for the Winchester diskdrives.
E1 to E2	Selects secondary addresses 372, 374/377 hex for the floppy disk drives.
E4 to E5	Selects secondary addresses 170 hex through I 77 hex and 376 hex and 377 hex for the Winchester disk drives.
E7 to E8	Jumper must be installed at all times. <b>DO NOT REMOVE.</b>



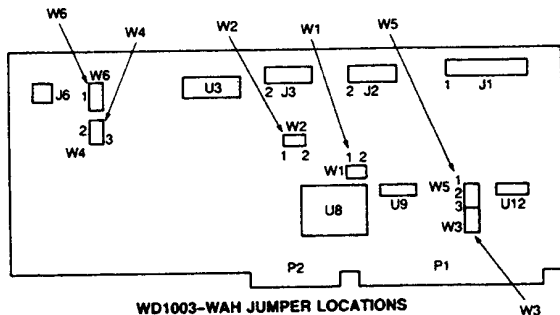
## WD1003-WA2 JUMPER SETTINGS

JUMPER	POSITION	FUNCTION
W1	No jumper	Status Read is non-latched. Dynamic drive select; i.e., SELECT = DRIVE BUSY. Used for Compaq 286s.
	Jumper	Standard factory setting. Status read is latched. Static drive select (SELECT asserted except during RESET). Used for IBM Personal Computer ATs.
<b>NOTE</b>		
Do NOT MOVE PRIMARY ADDRESS JUMPERS UNLESS YOUR OPERATING SYSTEM IS CONFIGURED TO ACCEPT TWO HARD DISK CONTROLLERS. CERTAIN OPERATING SYSTEMS SUPPORT TWO CONTROLLERS IN THE SAME SYSTEM. IBM DOS AND MANY IBM COMPATIBLE OPERATING SYSTEMS DO NOT SUPPORT THIS FEATURE.		
W2	No Jumper	Standard factory setting. Primary addresses selected.
	Jumper	Secondary addresses selected.
W3	No jumper	This configuration used with WD11C00A-22 or when W5, pins 2 and 3 are jumpered.
	Jumper	Required only on early units with WD11C00-22 and W5, pins 1-2 jumpered. DO NOT JUMPER WITH WD11C00A-22 INSTALLED.
W4	Jumper 2-3	Standard factory setting. Ties firmware sense bit input high
	Jumper 1-2	Supports 2 head, 612 cylinder second drive with standard system setup for 4 head, 306 cylinder drive.
W5	Jumper 2-3	Standard factory setting.
	Jumper 1-2	Internal signal of Power-up circuit controls WG enable.
W6	Jumper 2-3	Standard factory setting. Ties input high.
	Jumper 1-2	Ties input low. The 35 $\mu$ sec step rate cannot be selected with W6 in this position. Instead, the 16 $\mu$ sec step rate is selected.



## WD1003-WA2 JUMPER SETTINGS

PIN CONNECTS	DESCRIPTION
	<b>NOTE</b> DO NOT MOVE PRIMARY ADDRESS JUMPERS UNLESS YOUR OPERATING SYSTEM IS CONFIGURED TO ACCEPT TWO HARD DISK CONTROLLERS. CERTAIN OPERATING SYSTEMS SUPPORT TWO CONTROLLERS IN THE SAME SYSTEM. IBM DOS AND MANY IBM-COMPATIBLE OPERATING SYSTEMS DO NOT SUPPORT THIS FEATURE.
E2 to E3	Standard factory setting. Selects primary addresses.
E5 to E6	Standard factory setting. Selects primary addresses.
E1 to E2	Selects secondary addresses.
E4 to E5	Selects secondary addresses.
E7 to E8	Standard factory setting. Supports 360 RPM floppy disk drives.
ES to E9	Jumper in this position selects 300 RPM floppy disk drives.



## SOFTWARE INSTALLATION

This section contains instructions for preparing (low level format, etc.) your operating system to recognize the Western Digital controller.

1. Insert your system Diagnostic Diskette (or equivalent).
2. Turn on the power
3. Boot diagnostic and select setup option.
4. Set clock etc.

### CAUTION

**Avoid system damage by consulting your Technical Reference manual to ensure that your drive type is supported by your host BIOS drive tables. Not all AT-compatibles share the same drive tables as IBM.**

5. Select proper drive type. Consult your Technical Reference Manual for further information on these parameters.

### NOTE

Step 6 requires execution of low level formatting. Use of the IBM Advanced Diagnostic (or similar program for IBM-compatibles) is necessary since these controllers contain no on-board Basic Input/Output System (BIOS) ROM.

6. Insert your Advanced Diagnostic diskette and execute low level Format. Follow instructions in your reference manual.
7. Insert System Diagnostic Diskette (or equivalent) after the system finishes the low level format.
8. Load and execute the FDISK and FORMAT programs. Follow instructions in your reference manual.