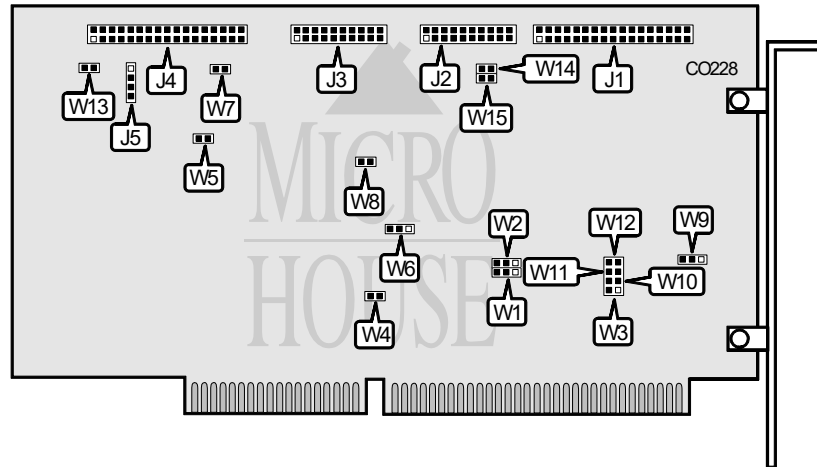# WESTERN DIGITAL CORPORATION
WD1007A-WAH, WD1007A-WA2

Q2/92

Data bus: 16-bit, PC/AT
Size: Full-length, full-height card
Hard Drives Supported: Two ESDI drives
Floppy drives supported: WD1007A-WA2: Two 360KB, 720KB, 1.2MB, or 1.44MB
                                 WD1007A-WAH: None
Sector interleave: 1:1
Options: Feature F301R has an optional ROM BIOS with shadow RAM
enabling   the controller to interface with all types of ESDI drives by bypassing
                                 the systems ROM BIOS drive type tables. Feature F300R does not
                                 include ROM BIOS option and system ROM BIOS must contain
                                 appropriate drive parameters.

CONNECTIONS	
Function	Location
34-pin control cable connector-hard drive	J1
20-pin data cable connector-drive 0	J2
20-pin data cable connector-drive 1	J3
34-pin data cable connector-floppy drive	J4
4-pin connector-drive active LED	J5

MISCELLANEOUS TECHNICAL NOTES
This controller has a built-in low-level format program. To enter the program run the DEBUG utility supplied with DOS and at the prompt enter: G=C800:5.

WESTERN DIGITAL CORPORATION
WD1007A-WAH, WD1007A-WA2

USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í BIOS shadow RAM enabled	W1	closed
BIOS shadow RAM disabled	W1	open
í Floppy controller enabled (WD1007A-WA2 only)	W4	open
Floppy controller disabled (WD1007A-WA2 only)	W4	closed
í Single speed floppy drive select (WD1007A-WA2 only)	W5	open
Dual speed floppy drive select (WD1007A-WA2 only)	W5	closed
í Floppy drive port address is 3F0-3F7h	W6	pins 2 & 3 closed
Floppy drive port address is 370-377h	W6	pins 1 & 2 closed
í WD1007A-WA2 supports 5.25 & 3.5 floppy drives	W7	closed
í WD1007 emulation mode	W8	open
WD1005 emulation mode	W8	closed
í Chassis ground disconnected	W9	open
Digital ground disconnected	W9	pins 1 & 2 closed
Chassis ground connected	W9	pins 2 & 3 closed
í Digital input register unlatched	W10	open
Digital input register latched	W10	closed
í Diskette change input signal enabled (WD1007A-WA2 only)	W11	closed
Diskette change input signal disabled (WD1007A-WA2 only)	W11	open
í Hard drive port address is 1F0-1F7h	W12	open
Hard drive port address is 170-177h	W12	closed
í Floppy controller enabled (In etch)(WD1007A-WA2 only)	W13	uncut
Floppy controller disabled (In etch)(WD1007A-WA2 only)	W13	cut
í Sector translation enabled	W14	open
Sector translation disabled	W14	closed
í ECC length is 4 bytes	W15	open
ECC length is 7 bytes	W15	closed

BIOS ADDRESS			
Address	W1	W2	W3
í C8000-C9FFFh	pins 2 & 3 closed	pins 2 & 3 closed	closed
CA000-CBFFFh	pins 2 & 3 closed	pins 1 & 2 closed	closed
CC000-CDFFFh	pins 1 & 2 closed	pins 2 & 3 closed	closed
CE000-CFFFFh	pins 1 & 2 closed	pins 1 & 2 closed	closed