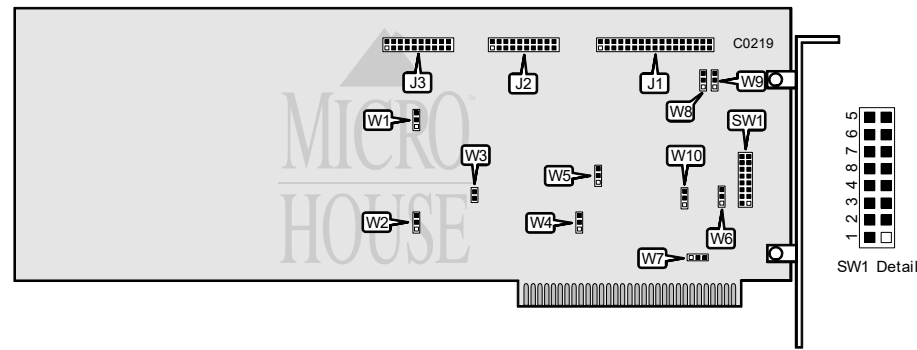# WESTERN DIGITAL CORPORATION
WD1002S-WX2A

Q2/92

Data bus: 8-bit, PC/XT
Size: Full-length, full-height card
Hard drives supported: Two MFM ST506/412 drives
Floppy drives supported: None

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

WESTERN DIGITAL CORPORATION
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USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í Not used	W1 & W2	N/A
í BIOS enabled	W3	closed
BIOS disabled	W3	open
í I/O port address 320h	W4	pins 2 & 3 closed
I/O port address 324h	W4	pins 1 & 2 closed
í BIOS size 32K or 64K	W5	pins 1 & 2 closed
BIOS size 16K	W5	pins 2 & 3 closed
í 16 head hard drive supported (Head Select 3)	W6	pins 1 & 2 closed
8 Head hard drive with RWC supported	W6	pins 2 & 3 closed
í Hard Drive Interrupt is IRQ5	W7	pins 1 & 2 closed
Hard Drive Interrupt is IRQ2	W7	pins 2 & 3 closed
í Factory setting	W8	pins 2 & 3 closed
CO23 setting	W9	pins 1 & 2 closed
í Standard Configuration	W10	pins 2 & 3 closed
Special feature	W10	pins 1 & 2 closed
í Factory configured - do not alter	SW1/jumper 5	open
í Factory configured - do not alter	SW1/jumper 6	open
í Hard Drive Interrupt is IRQ5	SW1/jumper 7	open
Hard Drive Interrupt is IRQ2 (JP7/pins 2-3 must be closed and a custom BIOS must be install)	SW1/jumper 7	closed
í AT mode enabled	SW1/jumper 8	closed
XT mode enabled	SW1/jumper 8	open

BIOS REVISION "SUPER BIOS" DRIVE TYPE TABLE								
	Drive 1		Drive 0					
#	SW1/1	SW1/2	SW1/3	SW1/4	Cap.	Hds	Cyls.	WP	RWC
0	closed	closed	closed	closed	21MB	4	612	450	450
1	open	closed	open	closed	10MB	4	306	0	153
2	closed	open	closed	open	10MB	2	615	450	450
3	open	open	open	open	21MB	4	615	450	450

WESTERN DIGITAL CORPORATION
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#	Drive 1		Drive 0						
BIOS REVISION "G" DRIVE TYPE TABLE									
#	SW1/1	SW1/2	SW1/3	SW1/4	Cap.	Hds.	Cyl.	WP	RWC
0	closed	closed	closed	closed	20MB	4	612	0	none
1	open	closed	open	closed	10MB	2	612	128	128
2	closed	open	closed	open	20MB	4	612	128	none
3	open	open	open	open	10MB	4	306	0	none

BIOS REVISION "H" DRIVE TYPE TABLE
Jumpers 3, 4, & 8 configure Drive 0
Jumpers 1, 2 & 7 configure Drive 1

#	SW1/1 & 3	SW1/2 & 4	SW1/7 & 8	Cap.	Hds	Cyl.	WP	RWC
0	closed	closed	closed	42MB	5	977	none	none
1	open	closed	closed	31MB	5	733	300	none
2	closed	open	closed	33MB	6	640	none	none
3	open	open	closed	62MB	8	1024	1024	1024
4	closed	closed	open	42MB	6	820	none	none
5	open	closed	open	10MB	2	612	128	128
6	closed	open	open	20MB	4	612	128	none
7	open	open	open	10MB	4	306	0	none

MISCELLANEOUS TECHNICAL NOTES

This controller can be purchased with several different BIOS revisions. The Super BIOS revision includes the following features not found in other revisions: ability to format bad tracks, dual controller operation, automatic configuration, virtual drive operation, and PC/AT compatibility. 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.