

SUBJECT: JUMPERING OF	SD	VTA # SD-0001
5 1/4" FLOPPY DRIVE	NOV. 9, 1981	PAGE 2 OF 2

UNITS AFFECTED: 1600

SYSTEM 1600
JUMPERING SHUNT BLOCKS FOR
FLOPPY DRIVES

FLOPPY DRIVES	
DRIVE A	DRIVE B
DRIVE C	DRIVE D
X= cut	

Numbers not actually on shunt block

DRIVE A	DRIVE B
	15 14 13 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15
DRIVE C	DRIVE D
1	1
X= cut	

Numbers not actually on shunt block



SUBJECT: JUMPERING OF	DDW	VTA # DDW-0003
5 1/4 " HARD DISK DRIVE	NOV. 2,1981	PAGE 1 OF 1

UNITS AFFECTED: 3005

CONDITION:

Jumper 5 1/4" hard drive for operation as a single hard disk unit

only.

CORRECTION:

Jumper

#8

Set drive select shunt at C6 on the drive printed circuit board

for single drive operation.

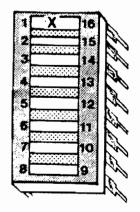
JUMPERING INSTRUCTIONS: On drive select shunt, (Vector part number 2508-0012), jumpers should be as follows, reading from front of drive to card edge connector:

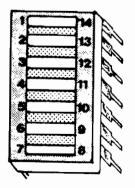
Number	
#1	OPEN (pins 1 to 16)
#2	CLOSED (pins 2 to 15)
#3	CLOSED (pins 3 to 14)
#4	CLOSED (pins 4 to 13)
#5	CLOSED (pins 5 to 12)
#6	CLOSED (pins 6 to 11)
#7	CLOSED (pins 7 to 10)

CLOSED (pins 8 to 9)

Jumpering Pin number on socket

Note that the socket is a 16 pin socket, but the select shunt may be either 14 or 16 pin. If the shunt has 14 pins, the empty holes in the socket should be the two closest to the front of the drive. (pin # 1 and pin # 16.) If it is a 16 pin shunt, the last jumper (pins 1 to 16) should be cut or left open. This is the one closest to the front of the drive.





PLACE IN PINS 2-14 OF SOCKET



	,	VTA # DDW-0004
5 1/4" FLOPPY DRIVE	NOV. 9, 1981	PAGE 1 OF 2

UNITS AFFECTED: 3005

CONDITION:

Select 5 1/4" double-sided floppy disk drive for operation as C,D,

or E.

CORRECTION:

Set jumpering shunt block (part # 2508-0012) as illustrated.

JUMPERING

INSTRUCTIONS:

Refer to attached sheet. Jumper as shown.

NOTES:

Drive select shown is for factory standard, with the hard disk configured as 2 logical drives (using MOVCPMJ), allowing for a

total of 3 floppies on the system.

the right to make that

The socket is a 16 pin socket, but the select block may be either 14 or 16 pins. If the block has 14 pins, the empty spaces should

be 8 and 9, the holes at the bottom of the socket.



SUBJECT: JUMPERING OF	SD	VTA # SD-0001
5 1/4" FLOPPY DRIVE	NOV. 9, 1981	PAGE 1 OF 2

UNITS AFFECTED: 1600

CONDITION:

Select 5 1/4" double-sided floppy disk drive for operation as A,

B, C, or D

CORRECTION:

Set jumpering shunt block as illustrated on attached sheet.

JUMPERING

INSTRUCTIONS:

Refer to attached sheet. Jumper as shown.

NOTE:

The socket is a 16 pin socket, but the select block may be either

14 or 16 pins. If the block has 14 pins, the empty spaces should

be 8 and 9, the holes at the bottom of the socket.



SUBJECT: JUMPERING OF DDW VTA # DDW-0004
5 1/4" FLOPPY DRIVE NOV. 9, 1981 PAGE 2 OF 2

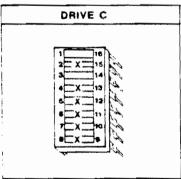
UNITS AFFECTED: 3005
SYSTEM 3005

JUMPERING SHUNT BLOCKS FOR

DRIVE C

DRIVE D	DRIVE E
X= cut	

Numbers not actually on shunt block



DRIVE D	DRIVE E
	1

Numbers not actually on shust block



	SUBJECT: UPGRADE TIMESHARE	MODEL: ALL	U-0002
eri i	UNITS AFFECTED: OLD TIMESHARE SYS	B DATE: 29 SEPT 1981	PG. 3 OF 3

SYSTEM CHECK OUT

- 1. CHECK ALL THE BOARDS ONCE AGAIN TO BE SURE THEY ARE SEATED AND ALL THE CABLES ARE ON CORRECTLY
- 2. BE SURE THE PLUGS AND CABLES ARE IN THEIR PROPER PLAGE TO THE MINDLESS TERMINALS. EARLIER WE STATED THE NEED FOR SPACING THE FWII AND 64K BOARDS ONE SLOT APART. IF YOU HAVE SEVERAL TERMINALS YOU MAY NEED TO PUT THE BOARDS CLOSER TOGETHER. BE SURE TO KEEP THE ORDER. IT WILL BE BETTER TO COMPACT THE FWII AND 64K BOARDS AND LEAVE THE 280, PROM/RAM, I/O, AND CONTROLLER BOARD SPACED OUT
- 3. PLUG THE AC LINE CORD BACK INTO THE SYSTEM
- 4. POWER ON
- 5. REFER TO MULTISHARE MANUAL FOR OPERATION

PARTS NEEDED: ORDER KIT # U-0002 WHICH CONSISTS OF:

1. 2. 3. 4.	<pre>1 - Molex 2 pin right angle connector 1 - 34 Conductor Drive Cable 1 - FD/HD Controller board 1 - CP/M System Disk for Multishare upg</pre>	
5. 6. * 7.	<pre>1 - Boot PROM: BOOT A 1.x 1 - Multishare monitor 4.x (2716) OR USE : Two chip set (2708) 1 - Manual "MULTISHARE"</pre>	00 6083-1100-00-30 6205-4500-00-50 6205-4500-00-30 7100-0244

* THE DEALER TECHNICIAN IS RESPONSIBLE FOR DETERMINING WHICH PROMS SHOULD BE ORDERED. PLEASE INDICATE THE TYPE OF PROM NEEDED WHEN ORDERING.

PARTS TO BE RETURNED TO VECTOR*

1.	2 - VTS PROMS	6205-3300-00-30
2.	1 - MICROPOLIS CONTROLLER BOARD	3546-0000



SUBJECT: UPGRADE TIMESHARE	MODEL: ALL	· U-0002
UNITS AFFECTED: OLD TIMESHARE SYS	B DATE: 29 SEPT 1981	PG. 2 OF 3

d. Circuit side '

- In Area B, cut the trace connecting pads 2 and
 3.
- In Area B, cut the trace connecting pad 3 and U15-6.
- 3. In Area B, cut the trace connecting pad 2 and U15-1.
- 4. Install a jumper wire between Area B, pad 3 and U15-13.
- Install a jumper wire between Area B, pad 1 and U15-6.
- 6. Install a jumper wire between U15-11 and U15-7.
- 7. Install a jumper wire between U15-12 and U14-13.

e. Rev. 3 or Later

- Install 2 pin Molex connector in Jl with the long pins up.
- 5. RIMOVE THE PROM/RAM BOARD
- 6. REMOVE THE PROMS IN SLOTS 8 AND 9. RETURN THESE PROMS TO VECTOR
- 7. INSTALL THE NEW VMS 4.x PROMS IN SLOTS 8 AND 9. #0 IN SLOT 8. #1 IN SLOT 9
- 8. INSTALL THE BOOT A 1.x IN SLOT 10
- 9. LEAVE ANY PRINTER DRIVER PROMS IN SLOT 11. (Be sure the program switch is in the off position.)
- 10.REMOVE THE MICROPOLIS DISK CONTROLLER AND ASSOCIATED CABLE. RETURN TO VECTOR.

REPLACING BOARDS AND CONNECTING CABLES

- 1. CREATE ONE CABLE WITH THE 2-PIN MOLEX SHELL AND PINS. USE ONE WIRE APPROX. 1 FT. IN LENGTH FOR EACH PAIR OF FWII AND 64K BOARDS
- 2. PLACE ONE FLASHWRITER NEAR THE REAR OF THE MOTHER BOARD, CONNECTING THE FLAT RIBBON CABLE FOR THE KEYBOARD TO J1 AND THE MOLEX CONNECTOR FOR THE VIDEO TO P2.
- 3. CONNECT THE CABLE MADE IN STEP 1 TO THE MOLEX PIN AT AREA
- 4. PLACE A 64K BOARD IN THE MOTHER BOARD, LEAVING ONE SLOT FOR VENTILATION, IN FRONT OF THE FLASHWRITER
- 5. CONNECT THE CABLE FROM AREA K OF THE FLASHWRITER TO AREA B OF THE 64K BOARD. PIN 2 OF AREA K MUST BE CONNECTED TO PIN 3 OF AREA B. THE OTHER PINS HAVE NO CONNECTION
- 6. PLACE THE PROM/RAM BOARD IN FRONT OF THE LAST FLASHWRITER, 64K BOARD PAIR. BE SURE THE VMS 4.x PROMS ARE IN SLOTS 8 AND 9 AND THE BOOT A 1.x IS IN SLOT 10
- 7. PLACE THE Z80 BOARD IN FRONT OF THE PROM/RAM BOARD IN THE MOTHERBOARD
- 8. PLACE THE FD/HD CONTROLLER IN THE MOTHERBOARD IN FRONT OF THE Z80
- 9. CONNECT THE CABLE PROVIDED TO THE MICROPOLIS DRIVES AND THE FD/HD CONTROLLER. THE END FOR THE CONTROLLER SHOULD BE KEYED FOR PROPER INSTALLATION
- 10.PLACE THE I/O BOARD IN FRONT OF THE CONTROLLER

3501-0000-07-00 ASSEMBLY VERSION -0007-00-01 -0006-00-00 -0005-00-00 -0004 -02-00 -0003-04-01 -0002-03-00 -0001-05-01 3502-0000-07-00 -0001-05-01 -0007-00-01 -0006-00-00 -0005-00-00 -0004-02-00 0003-04-01 -0002-03-00 VERSION CHARACTERISTIC SINGLE SOCKET 4MHZ (A/M)
WITH 3 SOCKETS SINGLE SOCKET MITH 3 SOCKETS 2HM9 2HM9 MHZ X-CPM ZHM3 (M/A) YES YES YES YES YES SWITCH YES 13 YES YES YES YES SOCKET Ī 0-0 -3096 960 ! 0-0 9600 9-0 JUMPER 2732 2732 2732 2732 2732 2732 2716 2716 020 2708 PROMS 2708 U21 2708 2708 U22 **CUT 1-2** cur 1-2 CUT 1-2 CUT 1-2 JUMPER 3-2 JUMPER 3-2 JUMPER 3-2 JUMPER 3-2 13-12-11 JUMPER 11-2 12-6 13-12-11 JUMPER 11-2 12-6 cut 11-12 jumper 9-10-5 cut 11-12 jumper 9-10-5 6 3-4 *** ** -JUMPER AREAS---÷ ÷ CUT 7-2 CUT 7-2 JUMPER 7-5 JUMPER 7-5 3 A OR B A OR A OR B A OR B A OR B PROCESSOR Z80

CS CS CANAGE	3502-XXXX-XX-XX B	SCHEMATIC - ZCB	18 A Louis Park Bood, Harmand State, C.A. 19138 THE CONTRACTOR OF THE PARK TO SERVICE AND THE PARK TO
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I/O 2 TO CENTRONICS WIRE LIST

I/O 2 I/O E	REAR PANEL		•
J4,J5 73	DB 25	AMP 57-30360	SIGNAL NAME
	-		
2 - 5	17	2	DATA O CUT
3 — <i>U</i>	16	3	DATA 1 CUT
4 - 9	15	4	DATA 2 OUT
5 - 10	14	5	DATA 3 OUT
6-15	24	6	DATA 4 OUT
7 - 10	25	7	DATA 5 CUT
8 - 17	12	8	DATA 6 CUT
$^{1}-8_{3}$	11	1	STAROBE OUT
11 - 20	6 .	11	BUSY IN
20 - 18	7	16 -or30	GROUND

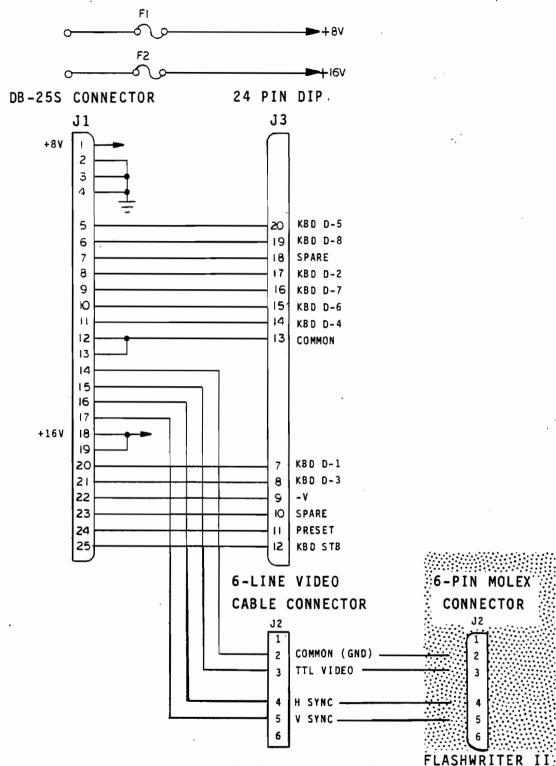


a Colinas A=. A= Village CA 91361 213 991-2302 PORT MAP

Revision A

July 10, 1981

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The complete adapter board has 5 of these connections

EXHIBIT 4-5 SCHEMATIC OF MZ5 ADAPTER BOARD CONNECTOR WITH FLASHWRITER II CONNECTIONS

- 2. Type "ESC" and "G 0000". (Execute the program at 0000H). This continually outputs to port C0H which forces the controller to attempt to select the hard disk.
- 3. Now measure the frequency on U1 pin 10 with the oscilloscope or frequency counter.
- 4. With the probe on U1-10 adjust the left hand potentiometer (R1) for a 10 MHz square wave (100 nanosecond period). This signal should approximate a square wave with a 50% duty-cycle.

SIGNAL:	LOCATION:	FREQUENCY:	POTENTIOMETER:
FLOPPY VCO	U1-7	500 kHz	R15
HARD DISK VCO	U1-10	10 MHz	R1

1 3

Address (Hex) Boards 7F Video Digitizer	Descriptions Output: T Count Low Input: A Data Parallel Port: Bidirectional Parallel Port: Bidirectional
The state of the s	Input: A Data Parallel Port: Bidirectional
80 8 Port Parallel I/O	Parallel Port: Bidirectional
81 8 Port Parallel I/O	
82 8 Port Parallel I/O 82 Clock/Calendar	Parallel Port: Bidirectional Serial: Data
83 8 Port Parallel I/O 83 Clock/Calendar	Parallel Port: Bidirectional Serial: Status
84 8 Port Parallel I/O 84 Clock/Calendar	Parallel Port: Bidirectional Output: Write Data to Clock Input: Read Data from Clock
85 8 Port Parallel 1/0 85 Clock/Calendar	Parallel Port: Bidirectional Output: Incrementing Clock
86 8 Port Parallel I/O 86 Clock/Calendar	Parallel Port: Bidirectional Output: Initializes/Sets Clock
87 8 Port Parallel 1/O 87 Clock/Calendar	Parallel Port: Bidirectional Output: Control
C0 Dualmode Disk Controller	Output: Control Ports Input: Status
C1 Dualmode Disk Controller	Output: Control Ports Input: Status
C2 Dualmode Disk Controller	Bidirectional Data Port
C3 Dualmode Disk Controller	Output: Start Input: Reset
D0 Network Controller	Input: Control Hardware Address
D1 Network Controller	Output: Load Controller Word Input: Read Controller Status Word
D2 Network Controller	Output: Load Buffer RAM Input: Read Buffer RAM
D3 Network Controller	Output: Output Data Don't Care Input: Reset
E0 Floppy Disk Controller	Output: Communication Input: Status
E1 Floppy Disk Controller	Output: Track Input: Track
E2 Floppy Disk Controller	Output: Sector Input: Sector