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i P	SUBJECT: JUMPERING OF	SD	VTA # SD-0001
1 1 2 3 4	5 1/4" FLOPPY DRIVE	NOV. 9, 1981	PAGE 2 OF 2

UNITS AFFECTED: 1600

SYSTEM 1600

JUMPERING SHUNT BLOCKS FOR
FLORBY DRIVES

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

Numbers not actually on shunt block

DRIVE A	DRIVE B
	70
DRIVE C	DRIVE D
2 x 16 3 x 14 6 4 13 6 x 11 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1

Numbers not actually on shunt block



1	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

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

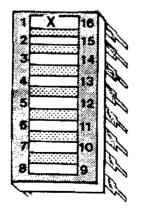
for single drive operation.

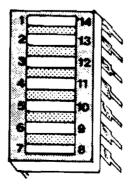
JUMPERING INSTRUCTIONS: On drive select shunt, (Vector part number 2508-0012), jumpers should be as follows, reading from front of drive to card edge connector:

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)
#8	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



SUBJECT: JUMPERING OF		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 reach 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

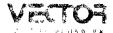
INSTRUCTIONS:

Refer to attached sheet. Jumper as shown.

NOTE:

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

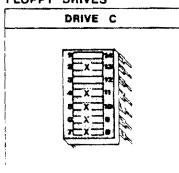
14 or 16 pins. If the block has 14 pins, the empty spaces should be 8 and 9, the holes at the bottom of the socket.



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

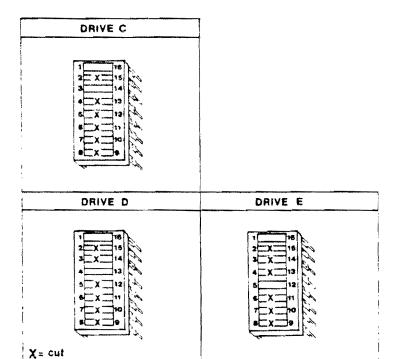
UNITS AFFECTED: 3005
SYSTEM 3005

JUMPERING SHUNT BLOCKS FOR FLOPPY DRIVES



DRIVE D	DRIVE E
Add Add Silver	A CONTROL OF THE PARTY OF THE P
X= cut	

Numbers not actually on shunt block



Numbers not actually on shunt block



	SUBJECT: UPGRADE TIMESHARE	MODEL: ALL	U-0002
en 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 PLACE 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>	2505-0033 3539-0017 3565-0001 grade 6061-2220-01-
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 RE RETTIRNED 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 '
 - 1. 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.
 - 5. 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

- 1. 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

					-	Г			I					JUMPER	AREAS						
ASSEMBLY	SCHEMATIC	VERSION		\$1			PROMS		٠٠,٠	•	•••	30 -10	1	20	100: 100:	10 20 3006	<i>j</i> {	1 7	17	ř	PROCESSOR Z80
VERSION	VERSION	CHARACTERISTIC	SWITCH	SOCKET	JUMPER	U20	U21	U22	A P2	С	D	100 100 100	110 61 110 62 100 64 100 65 66 76 63	6	7 0 0 1 H	10-07	{2 233}	* } 4 9 9	* 4 3 5 2 H	• ↓ N	PR0C 28
3501-0000-07-00	3502-0000-07-00	UMHZ WITH 3 SOCKETS	_			2716	2708	2708	CUT 1-2				CUT 13-12-11 JUMPER 11-2 12-6				CUT 7-2 JUMPER 7-5		*		A OR B
-0001-05-01	-0001-05-01	4mhz (A/M) WITH 3 SOCKETS			9600 0-0	2716	2708	2708	CUT 1-2 JUMPER 3-2	can was also app. yes.			CUT 13-12-11 JUMPER 11-2 12-6		*****		CUT 7-2 JUMPER 7-5	***			A OR B
-0002-03-00	-0002-03-00	б м н2	YES	YES		2732															В
-0003-04-01	-0003 - 04-01	БмнZ (A/M)			9600 0-0	2732				4 4					Wat day and has sain				40 40 40 40		В
-0004-02-00	-0004-02-00	UMHZ SINGLE SOCKÉT	YES	YES		2732			CUT 1-2 JUMPER 3-2	and and the star											A OR B
-0005-00-00	-0005-00-00	4мн2 х~срм	YES	YES		2732			CUT 1-2 JUMPER 3-2				cut 11-12 jumper 9-10-5 4 3-4						A		A OR B
-0006-00-00	-0006-00-00	6мнг х-ср м	YES	YES		2732							cut 11-12 jumper 9-10-5 & 3-4	70° 70°			*			de 119	8
-0007-00-01	-0007-00-01	UMHZ (A/M) SINGLE SOCKET			9600 0-0	2732			CUT 1-2 JUMPER 3-2												A OR B

VECTOR						
SCHEMATIC - ZCB						
3502-XXXX-XX-XX	8					

I/O 2 TO CENTRONICS WIRE LIST

1/0 2 I/0 L J4,J5 73 D	REAR PANEL B 25	PRINTER AMP 57-30360	SIGNAL NAME
	-		
2 -5	17	2	DATA O OUT
3-6	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 -16	25	7	DATA 5 CUT
8 - 17	12	8	DATA 6 GUT
1-8	11	1	STAROBE OUT
11 - 20	6 .	11	BUSY IN
20 - 18	7	16 -0230	GROUND

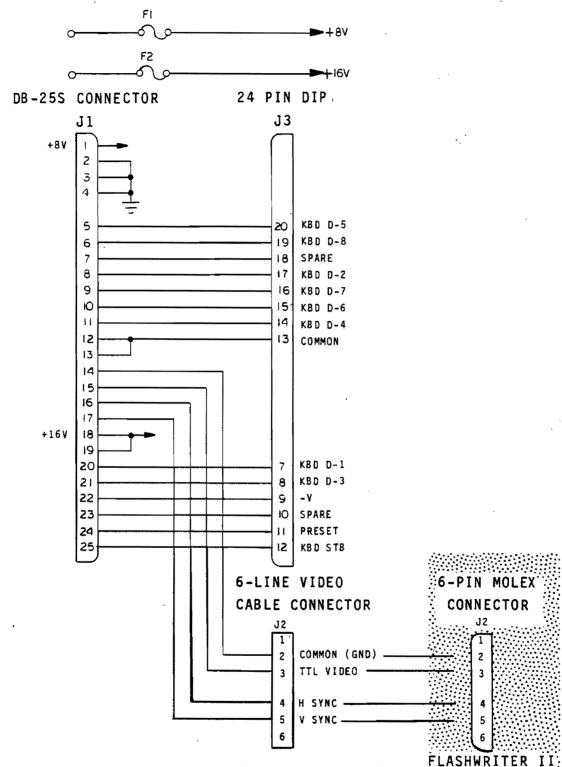


a Colinas De Jule Village CA 91361 D13 991-2302 PORT MAP

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 VOO	U1-10	10 MHz	R1		

; ,; '`

Address [Hex]	<u>Boards</u>	Descriptions
7F	Video Digitizer	Output: T Count Low Input: A Data
80	8 Port Parallel 1/0	Parallel Port: Bidirectional
81	8 Port Parallel I/O	Parallel Port: Bidirectional
82 82	8 Port Parallel I/O Clock/Calendar	Parallel Port: Bidirectional Serial: Data
83 83	8 Port Parallel I/O Clock/Calendar	Parallel Port: Bidirectional Serial: Status
84 84	8 Port Parallel 1/0 Clock/Calendar	Parallel Port: Bidirectional Output: Write Data to Clock Input: Read Data from Clock
85 85	8 Port Parallel I/O Clock/Calendar	Parallel Port: Bidirectional Output: Incrementing Clock
86 86	8 Port Parallel I/O Clock/Calendar	Parallel Port: Bidirectional Output: Initializes/Sets Clock
87 87	8 Port Parallel I/O 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
•		