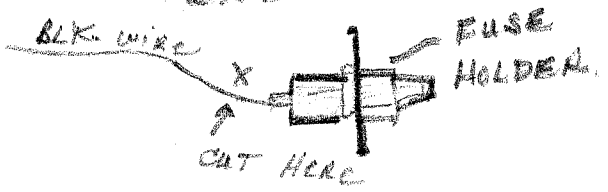
* AUX. PWR. PLUG — CORRECTION *

1.- Cut (BLK. wire) of middle of FUSE (F1) via AUX. CONNECTOR, AND TERMINAL

(SIDE VIEW)



2.- Connect BLK wire TO (TAB #2) OF TRANSFORMER. (USE TERMINAL TAB).

3.- REPLACE WHITE WIRE FROM FAN AND ATTACH NEW TO (TAB # 0) OF TRANSFORMER.

PURPOSE: TO DIFFERENCE (115 VAC) FROM AUX. PWR. SOURCE WHEN SYSTEM SWITCH IS IN THE OFF POSITION. WHEN SYSTEM SWITCH IS SET TO ON BOTH FAN AND AUX. CONNECTOR SHOULD HAVE 115 VAC APPLIED.

CRT AND PRINTER CONNECTOR INSTALLATIONS:

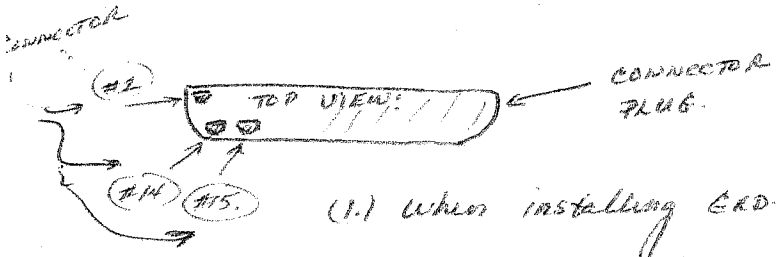
I. CRT CONNECTOR: (4 WIRES)

TERMINAL #1 - PLAIN GROUND $\frac{1}{\pm}$ (STRANDED WIRE)
#2 - WHITE WIRE
#3 - RED WIRE
#7 - BLACK WIRE

II PRINTER CONNECTOR: (3 SHIELDED TWISTED PAIR) + ASSOC ($\frac{1}{\pm}$) GRD. WIRES.

	SHIELD COLOR	CORRESPONDING CONNECTOR PIN	WIRE COLOR
A.	RED	#2	RED
		#3	BLACK
B.	BLUE	#5	BLACK
		#6	GREEN
C.	GREEN	#7	BLACK
		#20	WHITE
D.	$\frac{1}{\pm}$ (GRND.) STRANDED WIRES	#1	(ASSOC. PLAIN WIRES WITH EACH SHIELDED TWISTED-PAIR. (BEHIND OTHER).
		#14	
		#15.	

INSTALLING ($\frac{1}{2}$) GRD. PRIM WIRES TO CONNECTOR.
USING PIN (#1) AS PRINCIPAL CONTACT.



* BE SURE TO USE *
HEAT SHRINK AROUND CONNECTOR WIRES!

(1.) When installing GRD. ($\frac{1}{2}$) WIRES IN CONNECTOR CUPS. #1, #14, & #15. BE SURE TO INSTALL (CORRECT) CONNECTOR PIN TO EACH WIRE STAND. OF COLOR SHIELDED PAIR.

(2.) INSERT GRD. WIRES IN APPROPRIATE POSITION SHOWN IN DIAGRAM ABOVE.

(3.) ONCE GRD. WIRES HAVE BEEN POSITIONED (SOLDERED-IN) THEN USE A SMALL PIECE OF WIRE AND CONNECT ALL 3 CUPS TOGETHER. ~~So~~ PLEASE BE SURE TO TIN WIRE PRIOR TO JUMPING 3 AREAS TOGETHER.

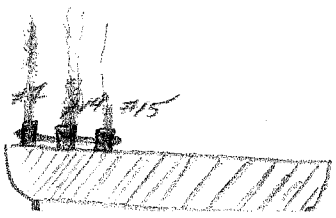
(ADDED NOTE: TO TIN WIRE MEANS TO APPLY FLUX TO THE WIRE AND ALLOW THE SOLDER TO FLOW ON. - ONLY A SMALL AMOUNT OF SOLDER ON END OF IRON IS NEEDED TO DO JOB.)

(4.) WHEN CONNECTING (JUMPER WIRE) USE PLIERS TO CRIMP AROUND CONNECTOR CUPS, THEN APPLY SOLDER (USING FLUX) TO LET IT FLOW SMOOTHLY.

(5.) IF FOLLOWING THIS PROCEDURES CAREFULLY!! YOUR CONNECTOR INSTALLATION WILL BE COMPLETE.

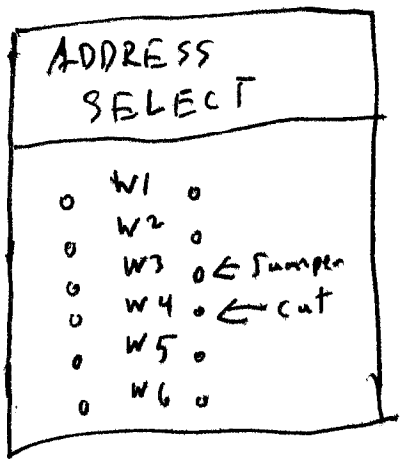
GOOD LUCK!! Guys.

SIDE VIEW:

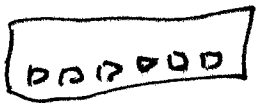


Jumper for Bitstreamer II second Board ports 4, 5, 6

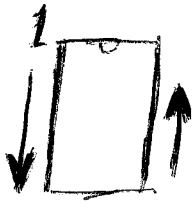
1. Cut Trace @ Address select #4
2. Jumper #3



IC IC Board

① Bank Select - All open 

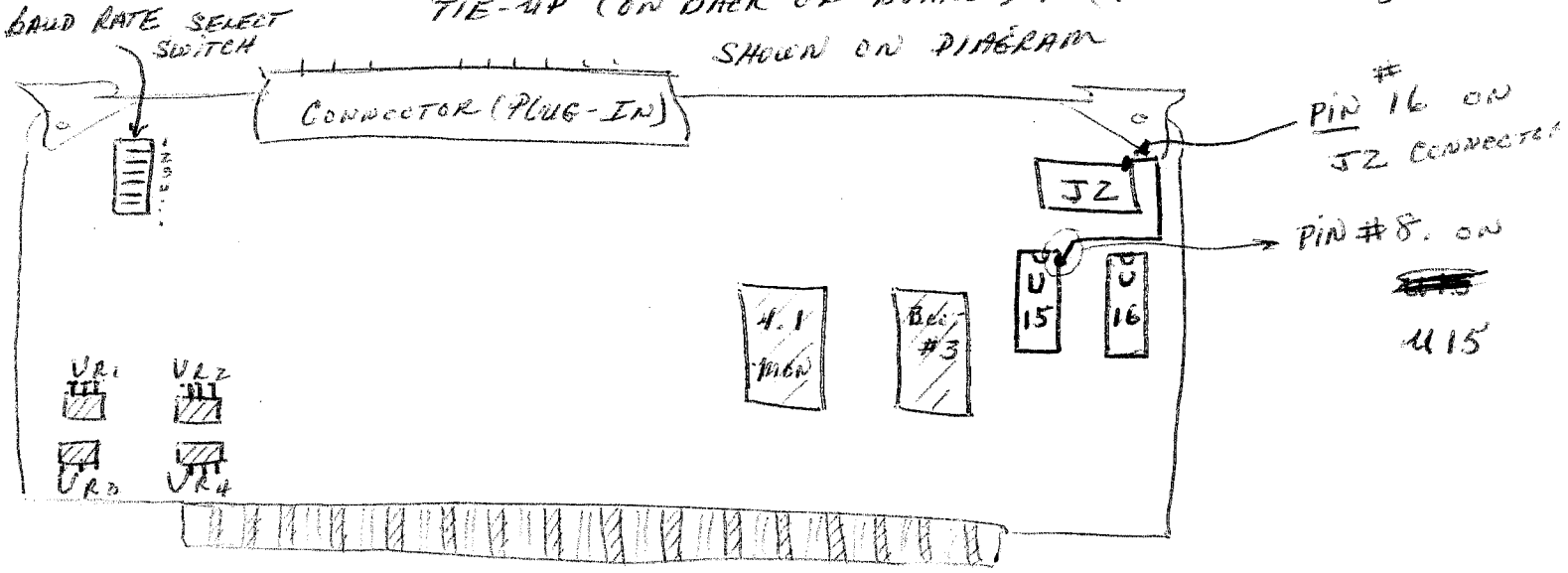
② Address Select - #2 open, all other closed



ZCB BRD:

SERIAL PORT TO BIT STREAMER III CONFIGURATION USING A 1KΩ (RESISTOR).

1. ~~J2~~ J2 ON PC BOARD (PN#16) MAKE A (1KΩ) RESISTOR TIE-UP (ON BACK OF BOARD) TO (PN#8 U15). AS SHOWN ON DIAGRAM



Note: MAKE CONNECTION ON BACK SIDE OF BOARD.

(1KΩ) RESISTOR: BRWN BLK RED GOLD

TI-810 PRINTER

On PROCESSOR BOARD:

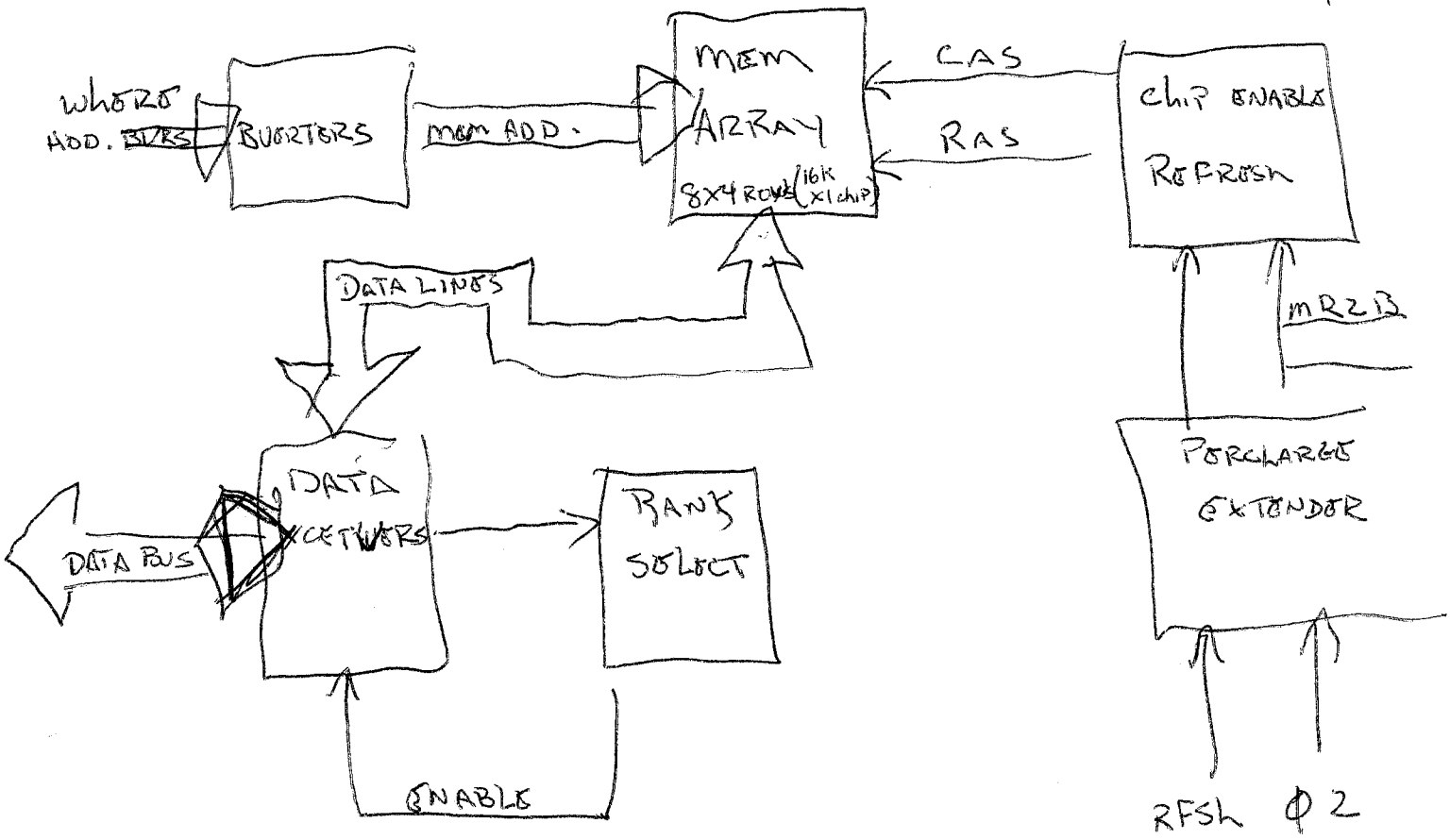
△ Change JUMPER (E4-E5) to (E5-E6).

Also change the Baud rate to 9600 -

PART 3. Use ENABLE ID

ADDED NOTE: - CONFIGURED FOR HANDSHAKING BIT II STRAMMER.

2-16-81


MEM
ARRAY
8X4 ROWS (16K X1 CHIP)
CAS
RAS
CHIP ENABLE
REFRESH
WHERE
ADD. BITS
BUFFERS
MEM ADD.
DATA LINES
MREQ
DATA
DATA BUS
RANK
SELECT
PERIPHERAL
EXTENDER
ENABLE
RFSH
Φ2

2-16-81

VECTOR REPAIR

KEN PFEIFFER, PRODUCT SUPPORT } RMA FORMS 6X 75 OR 31 } 5 DIGIT

SOFTWARE – 3 DIGIT REPAIR # STARTING WITH LETTER IN MELODYS AREA

2-16-81

0000 } 56K of user
DFFF } Ram

E000 } monitor ROM
E7FF }

E800 } Disk Boot/Graphic 2800, 3030, 3085
EBFF } Rom.

EC00 } Printer Driver
EFFF } Rom

F000 } memory mapped Video
F7FF }

F800 } 5 1/4" Disk Controller Rom
FBFF }

FC00 } 2 CB Scratch Pad Ram (Hi Ram)
FFFF }

---

1) DiskTest - U.G. Disk Diagnostic
2) A) Diag - (Micropolis Disk Diag)

3) QumeTest - Printer Diagnostic - 3/5
   A) Ascii Char - mp
   B) Back
   C) Bold
   D) Horiz Pos.
   E) Vert Pos.

4) Backup
   A) Source Disk To
   B) Dest Disk

5) Format - (HD Disk)
   " /8 5 1/4

AMP - 2778 LISTED 176E 1251 0.5W 350659-2

2-17-81

UTILITIES PROGRAM

1) PIP - STORINFO FROM ONE DISK DR TO ANOTHER

2) COLD BOOT = 'B'

3) WARM " = ⓒ C

4) SYSGEN

SOURCE DR. NAME - A

" ON A HIT RETURN - RTN

DESTINATION DR - B

" ON B HIT RETURN

CHECKING SYSTEM

1) CK DISPLAY

A) ALIGNMENT

2) BACK-UP A → B

A) STAT B:

B) B → A

3) MON 40/4/

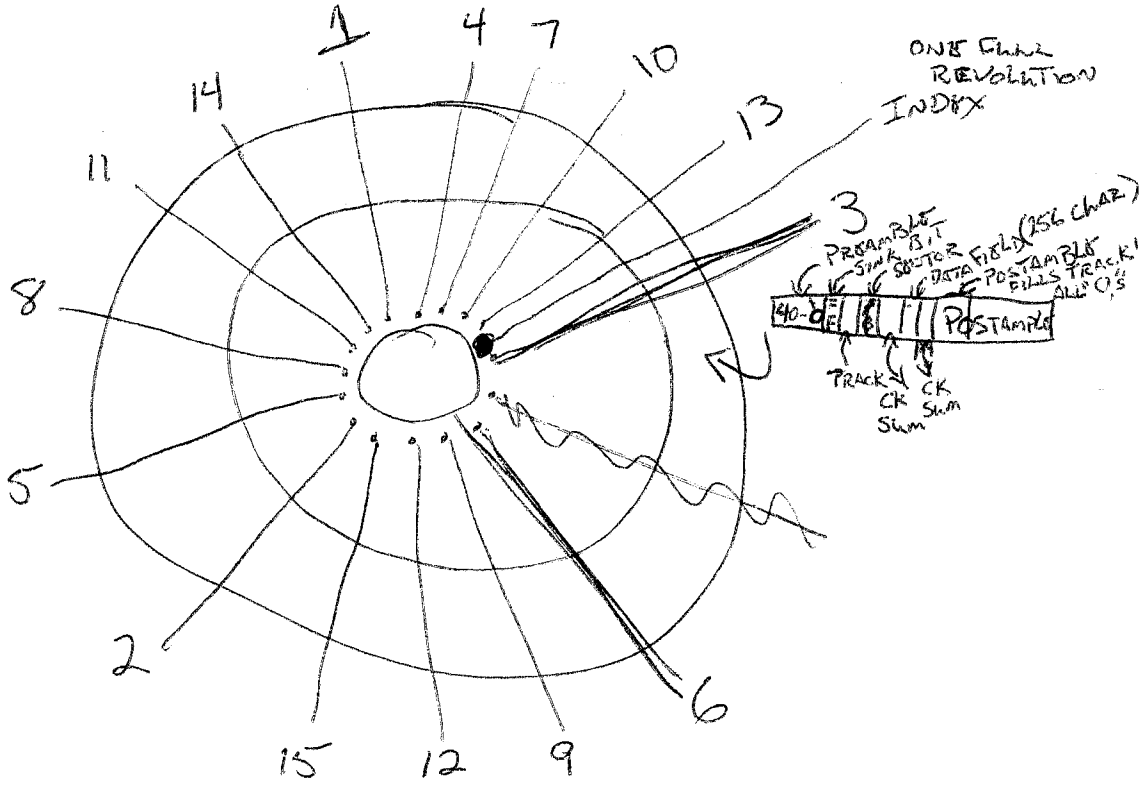
4) PRINTER - QUMSTEST

2-17-81

DISKETTE MFG.

1) 3-M
2) DICEAN
3) MEMOREX
4) BFM

1) TRACKS & SECTORS = MOVED X3



A) TRACK-AREA TO RECORD DATA ON

76 TRKS
× 6 SECTORS
1216 TOT SECTORS PER DISKETTE

B)

PG 1 NEED ONLY TO USE SPACEBAR OR COMMA

2-17-81

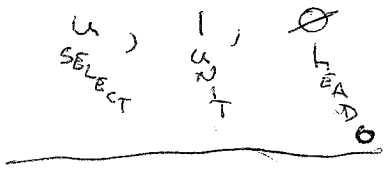
SET TEST AS B TEST FLOPPY A,B,C
" STANDARD AS A S

BOOT A

8-1 BACK OF MICROPOLIS SECTION
P8,1

CALL DIAG
(CAPS)- NO FRONT PANEL
HIGH TRACK 76
ENTER COMMAND
TURN TO 8-2 (8.3.5 ERROR MESSAGES

SELECT UNIT



BOOTING OFF DRIVE Ø

LOCATES HEAD AT T Ø

NEXT COMMAND

T, 15 SELECTS TRACKS

PG 1

2-17-87

S I, 10 STEP IN

S O, 12 STEP OUT 12 TRACKS

TOP OF 8-3 RIGHT COL.

P = DATA PATTERN

I, P INITIALIZE, PATTERN 1, 2, 3 OR 4

W, 3, 6 WRITE ALL ONES SECTOR 6

MANUAL

WAY TO MANIPULATE DRIVE

MAINTENANCE PROGRAM

X, 3 SEE CHART 8-5

HEADS, WRITES CHECK OF ALIGNMENT

X, 3, L LOOP

X, 3, PL, L PRINT LOOP, LOOP RUN 3 OR 4 TIMES

Z, 1, 0, I, 2, X, 3, PL, L HALF HOUR - 45 MIN FOR 1 PASS

ZERO UNIT 3 COUNTRY

PG 3

PG 4-1 2-17-87

TESTS & ADJUSTMENTS USE ALL TESTS

USE STROBE TEST

BUTTON | CNT | C |

2, 1, 0

± 942
OK TOLERANCE

ZERO DRIVE
T, 0, L TRACK & LOOP ADJUST R72 FIG 4-2

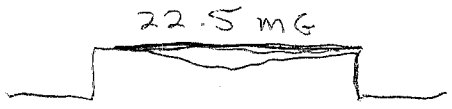
ISU P4-3 USE SCOPE

I, 3 ALL
UNIT 1's

4-4 HOW TO CONNECT SCOPES SINGLE B
T, 76, L MOVE ANY TO

T, 0, T, 76, L

TRACK 0 TO TRACK 76 LOOP



2-17-81

Z, 1, 0 ZERO DRIVE
T, 0, L TRACK 0 & LOOP

CONTL C
T, 76, L 4.7 c/k FELT PAD WEAR
FORCE ARM, IF ANY INCREASE 15% PAD IS WORN
AND IS NOT DOING ITS JOB. IF BAD REPLACE HEAD LOAD PAD...

CIRCUMFERENTIAL ETC. Z, 1, 0 USE ALIGNMENT
DISKETTE. PUT IN TEST UNIT T, 5, L

Z, 1, 0, T, 76, L check TRACK 76 CHANGE ≤ 100μ S.

RADIAL ALLIGNMENT P-4-10 20 ms. 0.1V/DIV.
Z, 1, 0, T, 36, L
SET L & R AMPLITUDE EQUAL

Z, 1, 0, T, 36, L check TO SIGNAL IS ON TRACK
SI, 1, S 0, 2 TRACK 0 SWITCH
Z 1, 0 T, 35, L - 50, 36 THINKS ITS ON 36 BUT ACT. ON 35

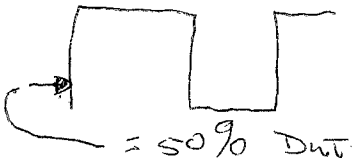
PG 5

2-17-81

SET TRADE ZERO SWITCH SET TO COARSE ADJ (T36)

P 4-14

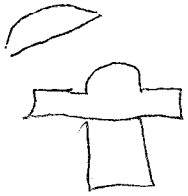
T,1,T,0,2



= 50% Duty cycle Then check

MOVE PROBE FROM TP 2 $\frac{1}{9}$

CLAMP CUP →



CONTROL C BEFORE
REMOVING DISK.

POWER OFF
DISCONNECT EVERYTHING

REMOVE BRASS 1/4" NUTS, PULL CONNECTORS OFF
PULL BOARD BACK & LAY ON TABLE. ADJUST CLAMP CUP.

2-14-81

~~DISK~~

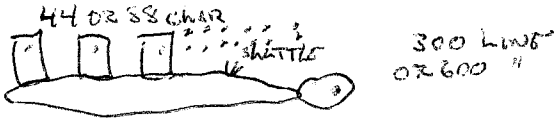
~~WD~~ MICROPOLIS DISK DRIVE

DRIVE 3 PLATTERS
5 SURFACES
6 " CALLED SERVOTRACK
601 TRACKS ON DRIVE
580 USED
42 USEABLE SECTOR ON EA TRACK
BRAKE ACTIVATES PLATTER WITHIN 7 MIN.
ENCODING SCHEME - GPM

PRINTERS

1) DOT MATRIX PRINTER

A) W/ PRINT WIRES
1) CENTRONIX
2) OBSON
3) PRINTRONIX



2) THERMAL - HEAT ELEMENT
3) ELECTRO-STATIC ELEC. DISCOLORS PAPER
4) BAND PRINTER - ROTATING CHAIN/BAND.
5) DRUM PRINTER - 

6) LASER PRINTER - BURN PAPER
7) INK JET - MAG. TIES INK PARTICULES
8) ~~THERMAL~~ IMPACT PRINTERS
A) THIMPLE PRINTER
B) IBM SELECTRIC
C) DAISY WHEEL <OVER

CONT

2-18

8d DAISY PRINTERS PRINT WHEEL QUME LASTS LONGER THAN DIABLO

8 c) DAISY PRINTERS
i) QUME WHEELS LASTS LONGER THAN DIABLO #9-#12

9) SPRINT 3
A) 55 CHAR PER SECOND
B) SINGLE STRIKE RIBBON AAAA
C) MULTI " " AAAA OVERLAP CHAR
D) CLOTH

10) INTERFACE SIGNALS PG 1-9 MAINT/TRAIN SECTION
A) DATA 1/2
B) " 1
C) " 2
D)
E)
F)
G)
H)
I)
J)
K)
L)
M)
N)
O)
P) RESTORE
Q) CHAR. STROBE - FOR DATA INFO D1-D64 TELLS TO PRINT CHAR. LOW ACTIVE SIG
R) CARRIAGE " - TELLS HOW FAR TO MOVE CARRIAGE D1 TO D512 TO 1/60 IN
D1/2 - 1/20" INC - D1024 1=RIGHT 0=LEFT
S) PAPER FEED MAIN STROBE - HOW FAR TO MOVE PAPER (INC 1/48") D1-512
D1024 1=UP 0=DOWN
T) " " AUX STROBE= 2ND PLAT

PIN

38 U)

39 V) RIBBON LIFT COMM - Ø = RAISE 1 = LOWER

40 W) RIBBON OUT

41 X) PRINT SOL

42 Y) COVER INTERLOCK

43 Z) CHECK - PROB IN PRINT A) POWER SUPPLY B) CARR. MOT HAS PROB (CANT MOVE OR GOING C) PRINT WHEEL

44 A) INPUT BUFFER RDY (CHAR. RDY)

45 B) " (CARR. RDY) = REC. DATA

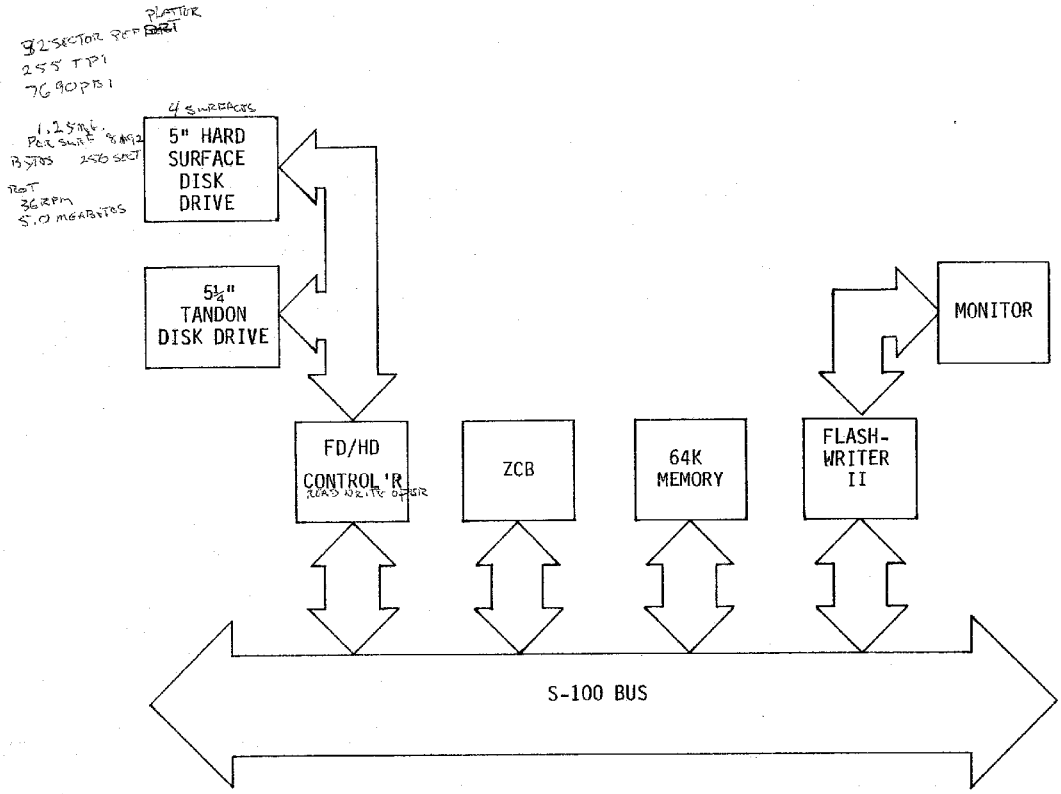
46 C) " (PAPER FEED RDY) "

47 D) INPUT BUFF EMPTY -

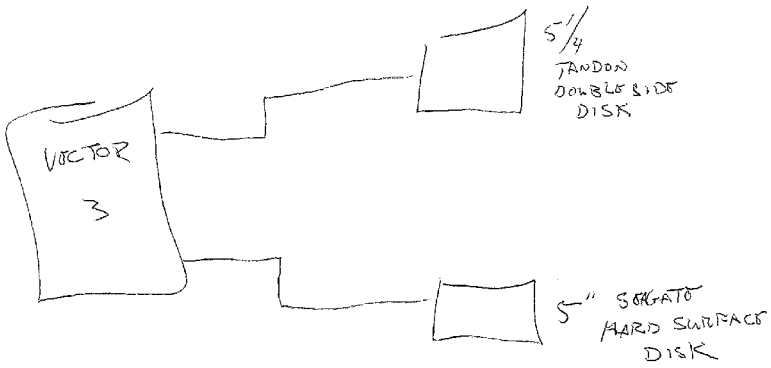
48 E) PRINTER RDY -

49 F) PAPER OUT (OPT)

G)

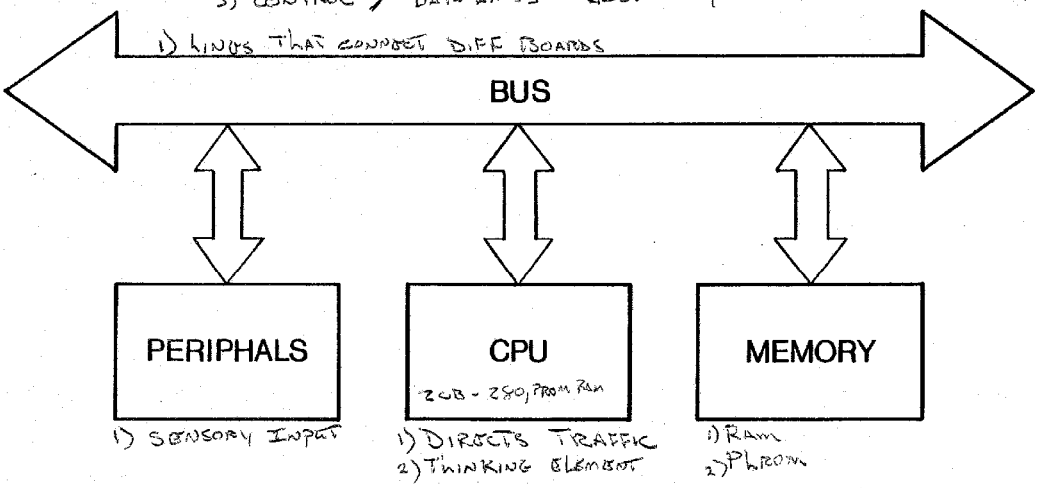

5" HARD SURFACE DISK DRIVE
5¼" TANDON DISK DRIVE
MONITOR
FD/HD CONTROL'R
ZCB
64K MEMORY
FLASH-WRITER II
S-100 BUS

3005 SYSTEM


VECTOR
3
5 1/4
TANDON
DOUBLE SIDE
DISK
5" SEAGATE
HARD SURFACE
DISK

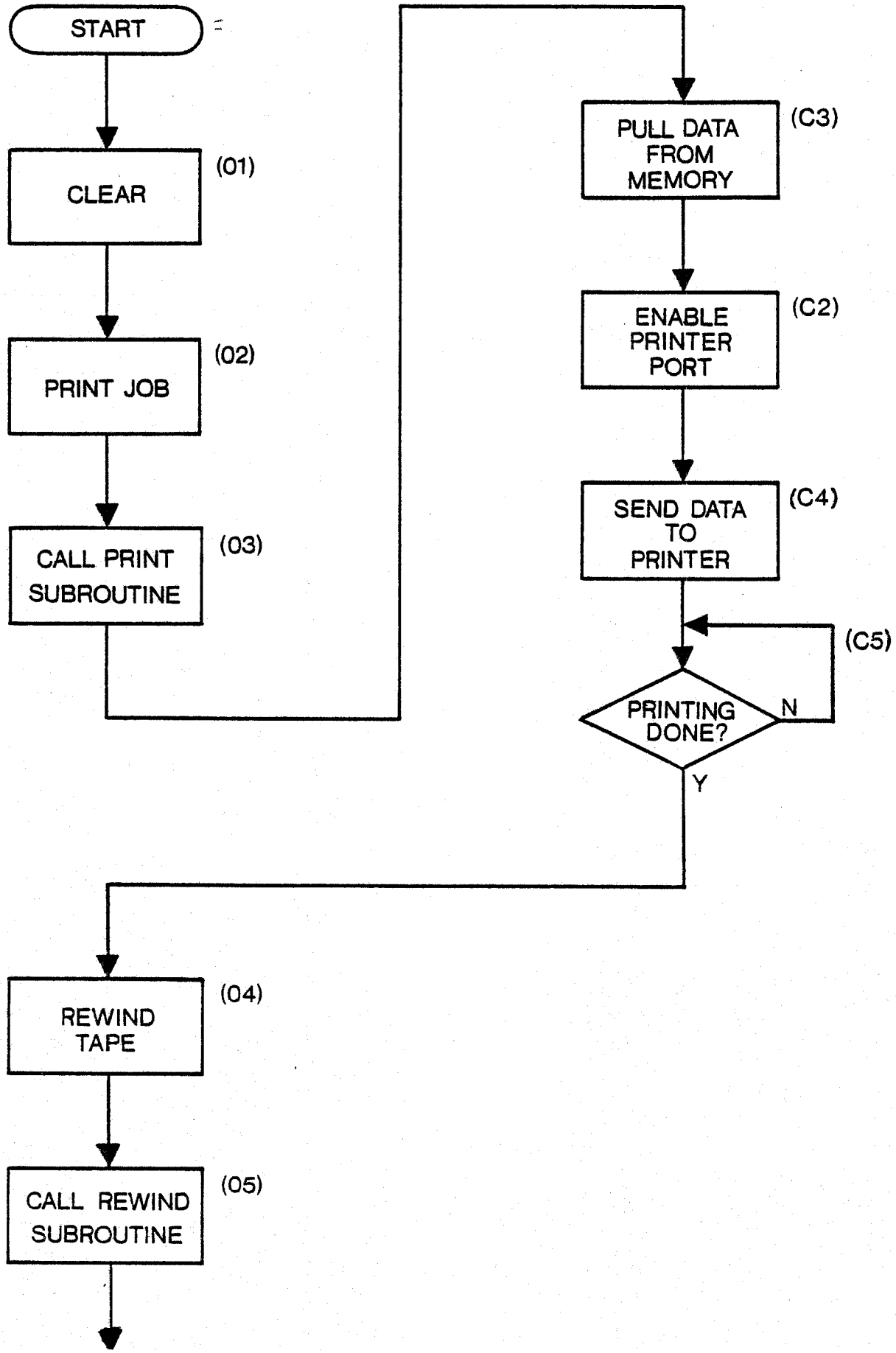
BASICS

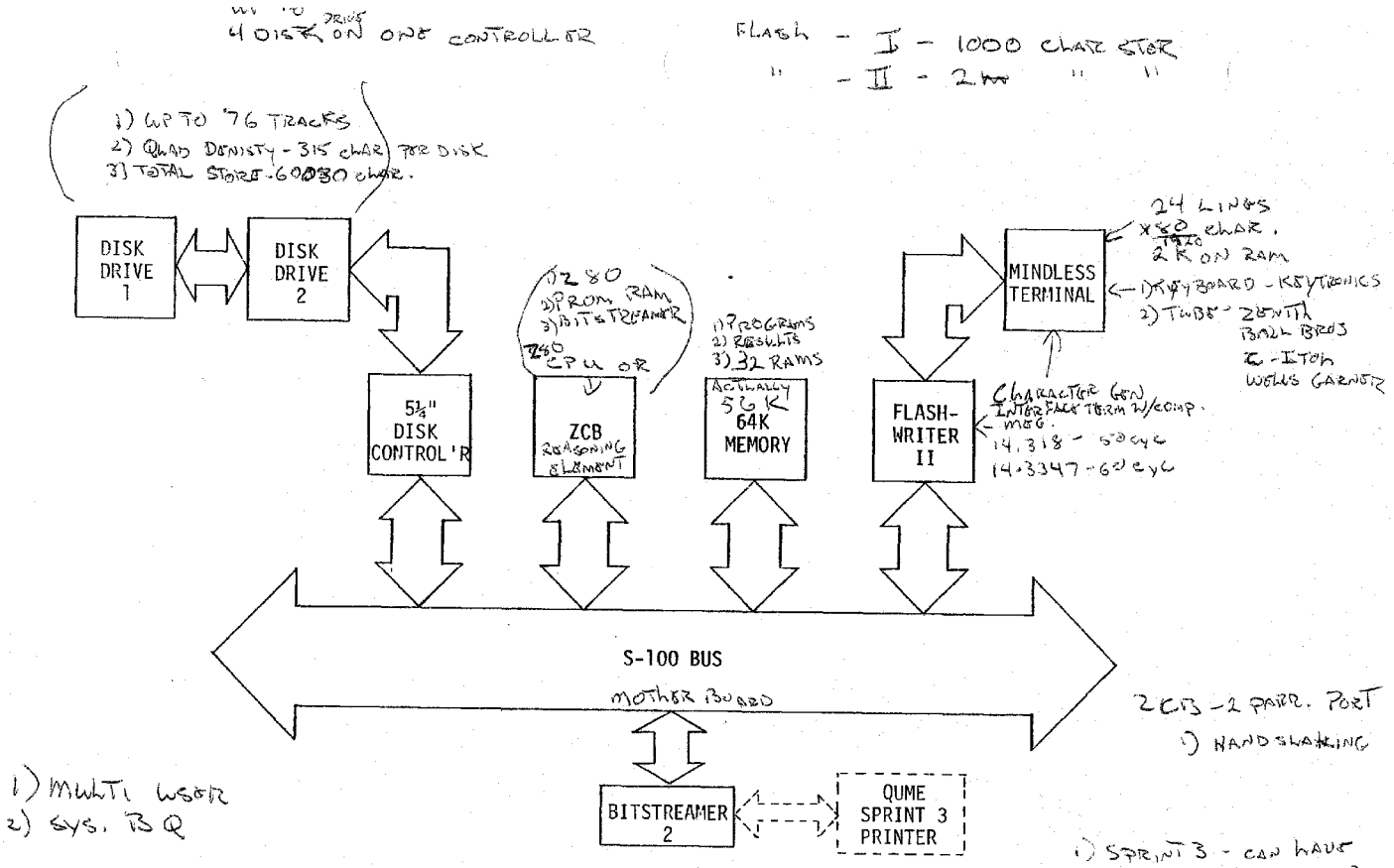
1) ADDRESS LINES - WHO TO COMM. WITH
2) DATA LINES - WHAT INFO IN ADD.
3) CONTROL / DATA LINES - ACCESSORY LINES



1) SENSORY INPUT
1) DIRECTS TRAFFIC
2) THINKING ELEMENT
1) RAM
2) PROM

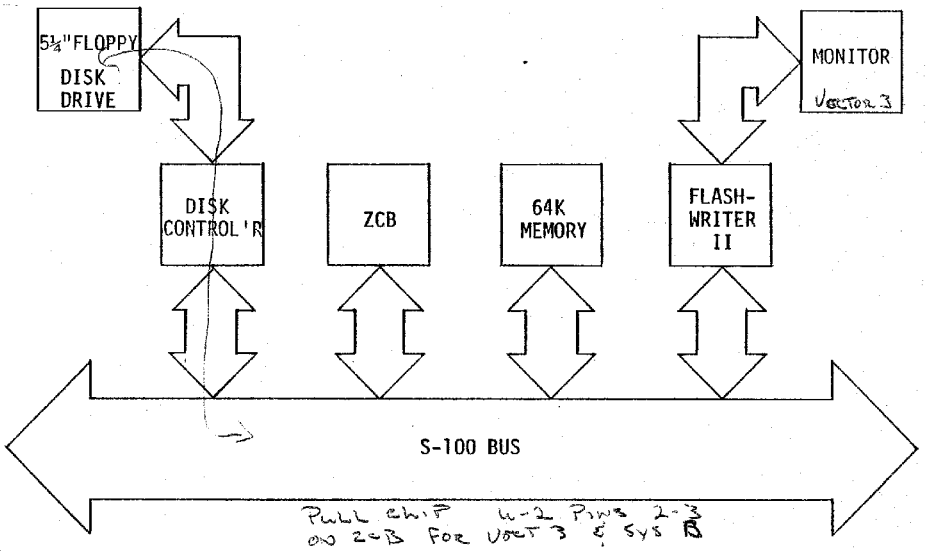
1) HARDWARE - PHY DRIVES, TURBO BOARDS
2) SOFTWARE - PROGRAMES; INSTRUC.
   A) CHANGEABLE
3) FIRMWARE - A) ROM - READ ONLY MEM
   B) PROM PROGM. "
   C) EPROM -


START
CLEAR
(01)
PRINT JOB
(02)
CALL PRINT SUBROUTINE
(03)
REWIND TAPE
(04)
CALL REWIND SUBROUTINE
(05)
PULL DATA FROM MEMORY
(C3)
ENABLE PRINTER PORT
(C2)
SEND DATA TO PRINTER
(C4)
(C5)
PRINTING DONE?
N
Y



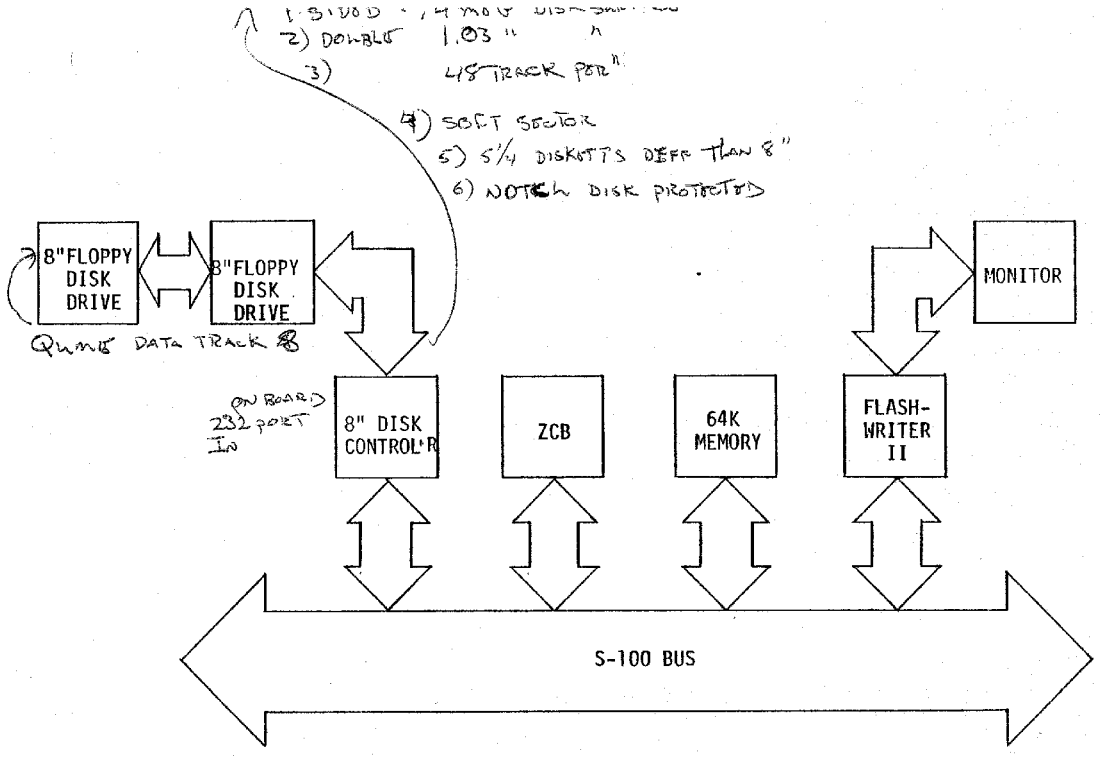
SYSTEM B

SAMP ON M2.
DONOT USE ACC. PORT FOR DATA THINGS MAY FEED BACK NOISE THROUGH PIA.

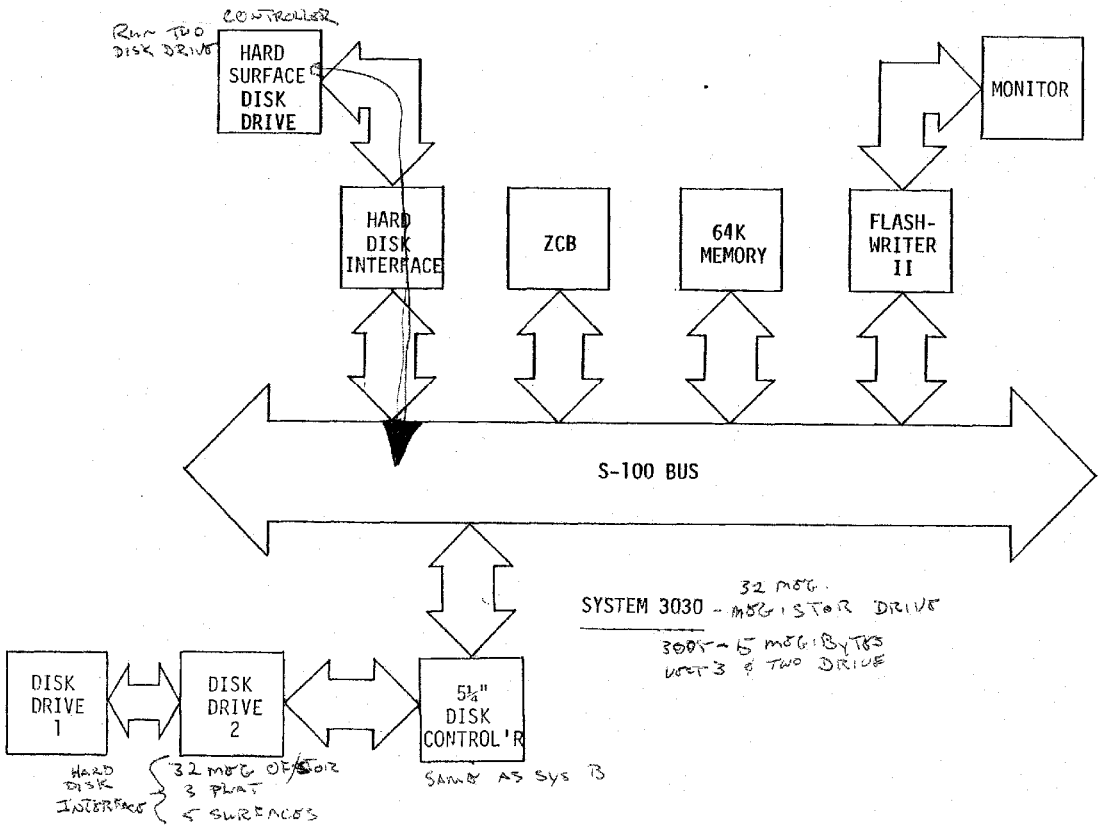


PULL CHIP U-2 PINS 2-3
ON 2-B FOR VECT 3 & SYS B
MONITOR SAME AS SYS B
SPRINT 3 NEEDS ADD ON POW. SUPP.

V.I.P.


2) DOUBLE 1.03 "
3) 48 TRACK PER "
4) SOFT SECTOR
5) 5¼ DISKETTS DIFF THAN 8"
6) NOTCH DISK PROTECTED
8"FLOPPY DISK DRIVE
8"FLOPPY DISK DRIVE
QUME DATA TRACK 8
ON BOARD 232 PORT IN
8" DISK CONTROL'R
ZCB
64K MEMORY
FLASH-WRITER II
MONITOR
S-100 BUS

2800 SYSTEM


CONTROLLER
RUN TWO DISK DRIVE
HARD SURFACE DISK DRIVE
MONITOR
HARD DISK INTERFACE
ZCB
64K MEMORY
FLASH-WRITER II
S-100 BUS
32 MEG.
SYSTEM 3030 - MEGASTOR DRIVE
3005 - 5 MEGABYTES WITH TWO DRIVE
DISK DRIVE 1
DISK DRIVE 2
5¼" DISK CONTROL'R
HARD DISK INTERFACE
32 MEG OF STOR
3 PLAT
5 SURFACES
SAME AS SYS B