

REVISIONS			
REV. NO.	DESCRIPTION	APPROVED	DATE
X2	PROTOTYPE RELEASE		
A	PRODUCTION RELEASE EN 3-10		11/77
B	RELOCATED FF & F-C EN 3-10		11/77
C #1	REMOVED CONNECTOR FROM BOARD AND STANDOFFS (MILINARS) ADD WIRE & PWT 6-18-82		11/77
D #1	RELOCATED EDGE OF BOARD AND PWT-7 PER EN 3-10		11/77
E #1	ADDED DATA CHART TO P/D PER BU BOMIE		11/77
F #1	REMOVED ALL UNUSED WIRES PER EN 3-10		11/77
G CW	ADDED G/N4 PER EN 3-10		11/77
H #1	REV. 222 P/F EN 3-17 '72		11/77

DASH NUMBER CHART	
PART NUMBER	DESCRIPTION
44P0506-000	SENSE & INHIBIT ASSY
44P0506-001	SENSE & INHIBIT ASSY

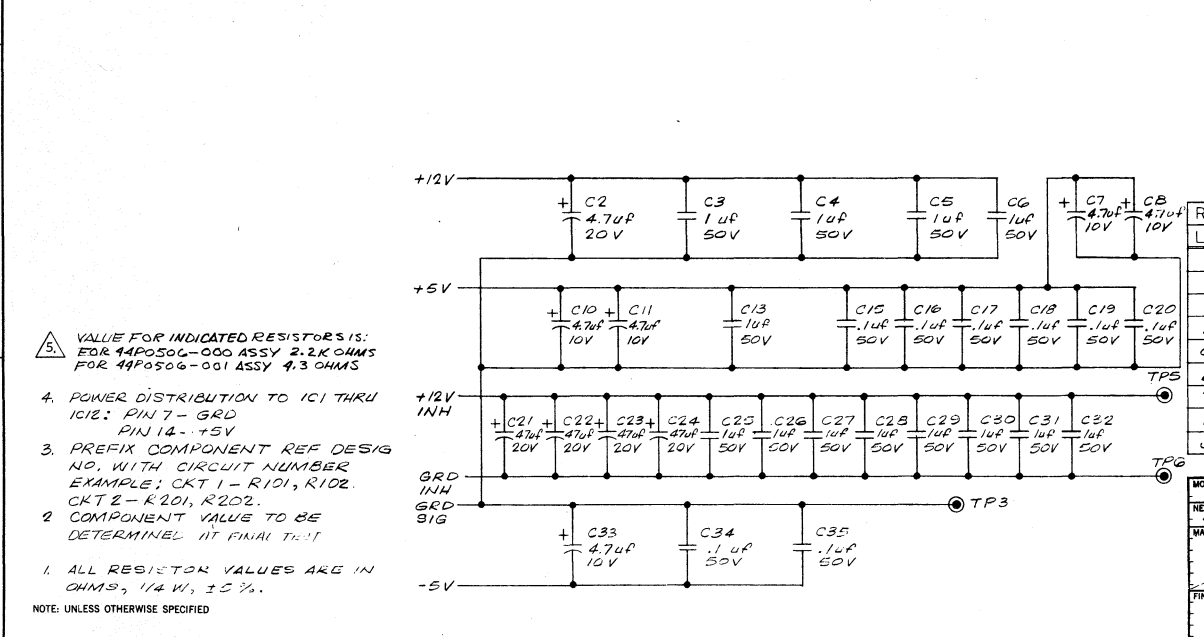
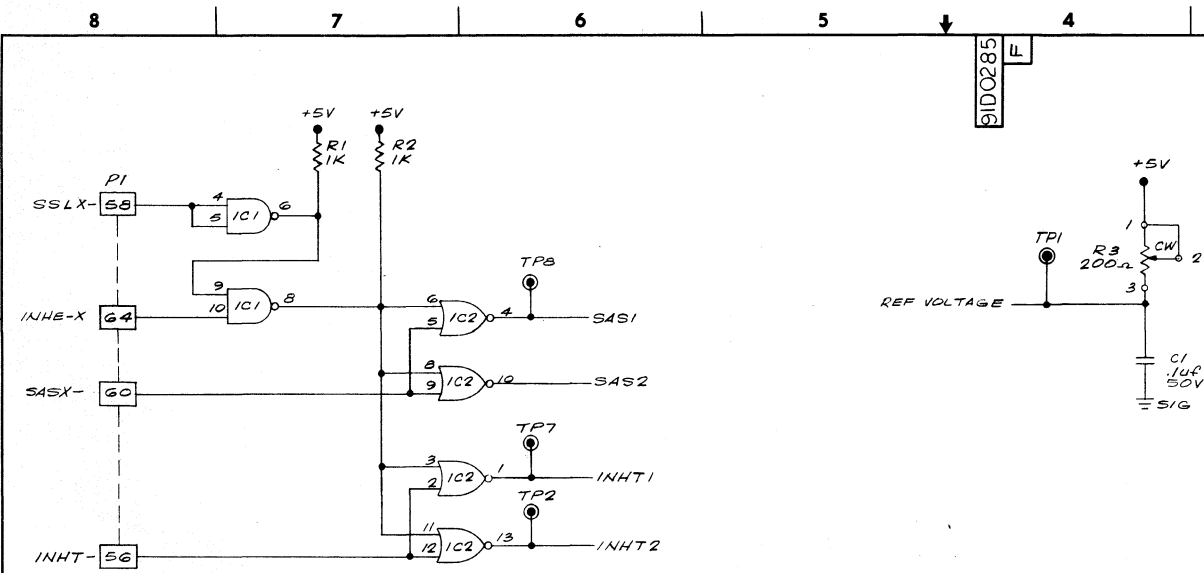
FOR PARTS LIST SEE 44P0506

- REFERENCE DRAWINGS
- 40D0454 P.W. BOARD
 - 44P0506 PARTS LIST
 - 91D0285 LOGIC DIAGRAM
 - 97D0533 ARTWORK
 - 97D0555 SILKSCREEN
 - 97D0556 SOLDER MASK

DRAWING NO. 620/L REV. NO. 01E1034 DATE 11/77	THIS DOCUMENT MAY CONTAIN PROPRIETARY INFORMATION AND IS UNCLASSIFIED UNLESS INDICATED OTHERWISE. IT IS NOT TO BE RELEASED OR USED TO REPRODUCE THE ARTICLE OR SUBJECT WITHOUT WRITTEN PERMISSION FROM THE SOURCE.	TITLE SENSE/INHIBIT ASSY DM288	CODE IDENT. NO. 21101 SIZE E DRAW NO. 44E0506 SCALE 2/1 SHEET 1 OF 1
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- △ USE OF TRANSISTOR PADS OPTIONAL.
 - 3. TOP SOLDER FILLET NOT REQUIRED ON INACCESSIBLE COMPONENT OR CONNECTOR.
 - △ VALUE FOR THE FOLLOWING COMPONENTS TO BE SELECTED AT FINAL TEST: R301, 305, 309, 313, G01, G05, G09, G13, 901, 306, 207, 313, 1201, 1206, 1209, 1213.
 - △ MARK APPLICABLE 44P0506 DASH NUMBER AND REVISION LETTER TO WHICH PART WAS MANUFACTURED AND SERIAL NUMBER USING .12 HIGH CHARACTERS APPROXIMATELY WHERE SHOWN.
- NOTE: UNLESS OTHERWISE SPECIFIED

REVISES		DESCRIPTION	APPROVED	DATE
-	X	PROTOTYPE RELEASE		
-	X2	PROTOTYPE RELEASE; REVISED ALL CIRCUITS		
-	A	PRODUCTION RELEASE EN 5310	RJA	11/17/71
-	B	TP1 WAS ON SIGNAL SAS2 EN 5305	RJA	11/17/71
-	C	REMOVED RESISTOR VALUE R2 R7-21 WAS 2.2K, ADDED NOTE FINE PER RU BOMBS	RJA	11/17/71
-	D	REVISED SHT 4 PER EN 51270	RJA	11/17/71
-	E	.0010 LUF WAS .0033 LUF IF 14.9 ± 1% SW WAS 12.0 ± 1% SW. REVISED PER EN 51307	RJA	11/17/71
-	F	SHT 2 R-09, 6.10K 14 WAS 14 Ω PER EN 53072	RJA	11/17/71



5. VALUE FOR INDICATED RESISTORS IS: FOR 44P0506-000 ASSY 2.2K OHMS FOR 44P0506-001 ASSY 4.3 OHMS

4. POWER DISTRIBUTION TO IC1 THRU IC12: PIN 7 - GRD
PIN 14 - +5V

3. PREFIX COMPONENT REF DESIG NO. WITH CIRCUIT NUMBER EXAMPLE: CKT 1 - R101, R102. CKT 2 - R201, R202.

2. COMPONENT VALUE TO BE DETERMINED AT FINAL TEST

1. ALL RESISTOR VALUES ARE IN OHMS, 1/4 W, 1%.

NOTE: UNLESS OTHERWISE SPECIFIED

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C35, C1104	C9, 12, 14
R21, R1217	
CR1205	
IC12, IC1101	
Q1204	
A1203	
TPB	
PI	
J1	

REFERENCE DRAWINGS	
40D0454	PW BOARD
44E0506	ASSEMBLY
44P0506	PARTS LIST
97D0533	ARTWORK
97D0555	SILKSCREEN
97D0556	SOLDER MASK

MODEL NO. 620/L
NEXT ASSY 44E0506
MATERIAL
FINISH

DIMENSIONS ARE IN INCHES AND AFTER FINISHING TOLERANCES UNLESS OTHERWISE SPECIFIED
X ± .1
XX ± .03
XXX ± .015
ANGLES ± .05°
BREAK ALL SHARP EDGES .010 R APPROX
DO NOT SCALE DRAWING

DR *S. Dille* 1/17/71
CHK *S. Dille* 2/11/71
DSGN *S. Dille* 1/17/71
ENGR *S. Dille* 2/11/71
APPR *S. Dille* 2-11-71
APPR

varian data machines / a varian subsidiary
2722 michelson drive / Irvine / california / 9264

TITLE
LOGIC DIAG
SEN/INH
DM288

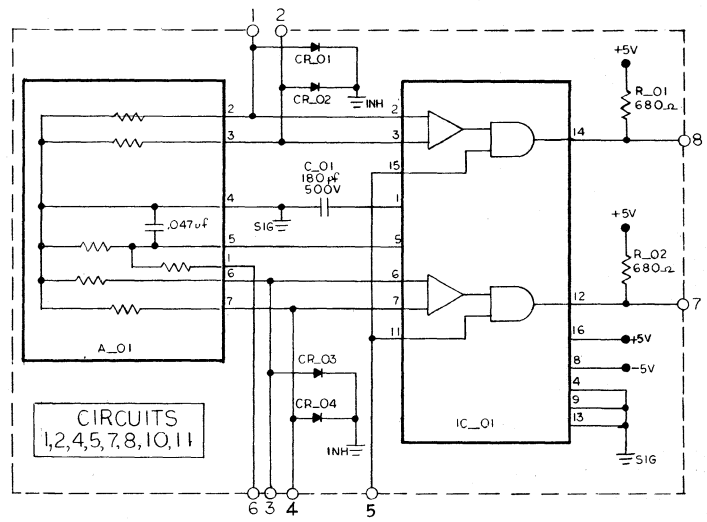
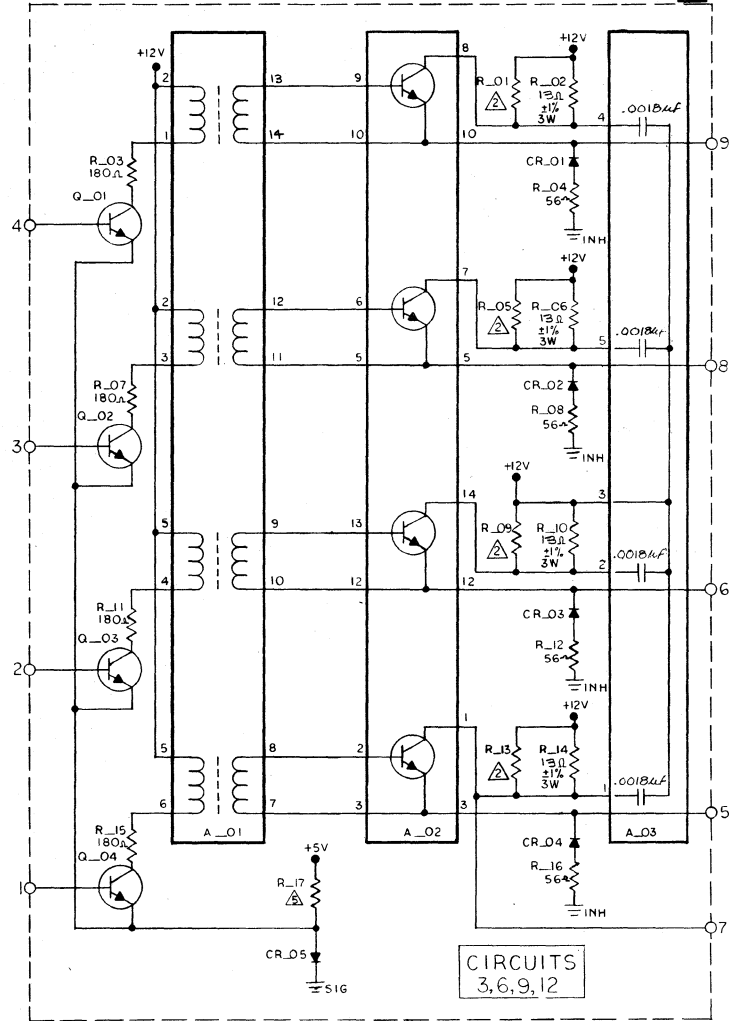
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CODE IDENT NO. 11101 D
SIZE D
DWG NO. 91D0285
SCALE NONE
SHEET 1 OF 4

91D0285
F

REVISIONS		APPROVED	DATE
SYM	ZONE	DESCRIPTION	
		SEE SHEET ONE	

91D0285
L



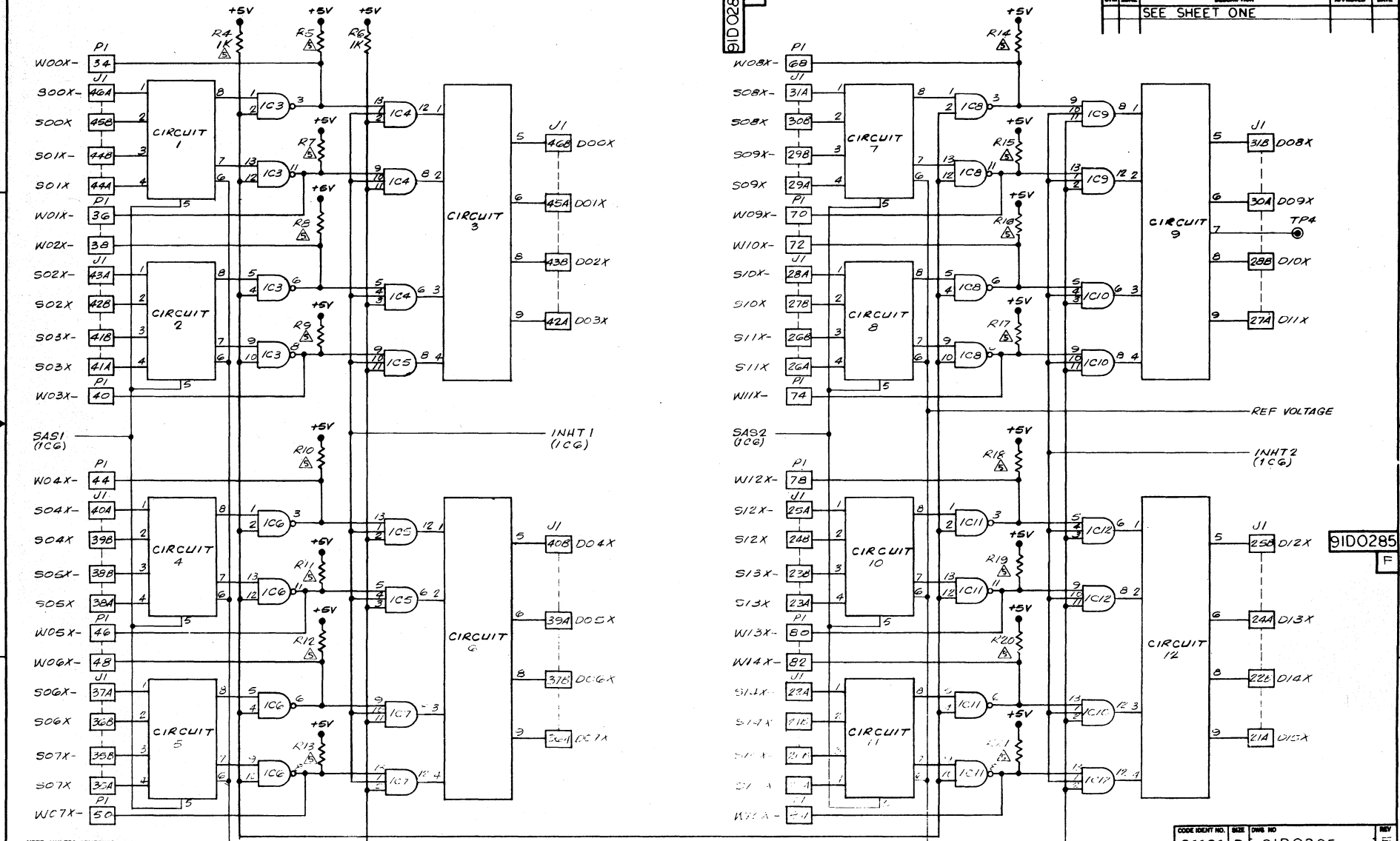
91D0285
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NOTE: UNLESS OTHERWISE SPECIFIED

CODE IDENT NO.	SIZE	DWG NO.	REV
21101	D	91D0285	F
SCALE NONE	SHEET 2 OF 4		

91D0285

REVISIONS			
REV	DATE	DESCRIPTION	APPROVED
SEE SHEET ONE			



NOTE: UNLESS OTHERWISE SPECIFIED

91D0285 F

91D0285
F

REVISIONS			
SYM	ZONE	DESCRIPTION	DATE
		SEE SHEET ONE	

CONNECTOR PI

PIN	FUNCTION	SHEET
1	G SIG	
2	G SIG	
3	G SIG	
4	G SIG	
5	G SIG	
6	CAOX-X	
7	CCOX-X	
8	CAX-X	
9	CC2X-X	
10	CA4X-X	
11	CC4X-X	
12	CCGX-X	
13	CCGX-X	
14	CAGX-X	
15	CAGX-X	
16	CAGX-X	
17	G SIG	
18	YSGX-X	
19	G SIG	
20	YS7X-X	
21	G SIG	
22	Y34X-X	
23	G SIG	
24	Y35X-X	
25	G SIG	
26	Y32X-X	
27	G SIG	
28	Y33X-X	
29	G SIG	
30	YSOX-X	
31	G SIG	
32	YSIX-X	
33	G SIG	
34	W0OX- 3	
35	G SIG	
36	W0IX- 3	
37	G SIG	
38	W2X- 3	
39	G SIG	
40	W3X- 3	
41	G SIG	

CONNECTOR PI

PIN	FUNCTION	SHEET
42	+5V	
43	G SIG	
44	W04X- 3	
45	G SIG	
46	W05X- 3	
47	G SIG	
48	W06X- 3	
49	G SIG	
50	W07X- 3	
51	G SIG	
52	W1GX-	
53	G SIG	
54	W17X-	
55	G SIG	
56	INH1- 1	
57	G SIG	
58	3SLX- 1	
59	G SIG	
60	SASX- 1	
63	G SIG	
64	INH2- 1	
65	G SIG	
66	G SIG	
67	G SIG	
68	W08X- 3	
69	G SIG	
70	W09X- 3	
71	G SIG	
72	W10X- 3	
73	G SIG	
74	W11X- 3	
75	G SIG	
76	G SIG	
77	G SIG	
78	W12X- 3	
79	G SIG	
80	W13X- 3	
81	G SIG	
82	W14X- 3	
83	G SIG	
84	W15X- 3	

CONNECTOR PI

PIN	FUNCTION	SHEET
85	G SIG	
86	SASX-	
87	G SIG	
88	TSHX	
89	G SIG	
90	TSLX	
91	G SIG	
92	X50X-X	
93	G SIG	
94	X51X-X	
95	G SIG	
96	X52X-X	
97	G SIG	
98	X53X-X	
99	G SIG	
100	X54X-X	
101	G SIG	
102	X55X-X	
103	G SIG	
104	X56X-X	
105	G SIG	
106	X57X-X	
107	CASX-X	
108		
109	CA3X-X	
110	CC7X-X	
111	CC1X-X	
112	CC5X-X	
113	CA1X-X	
114	CC3X-X	
115	-5V	
116	+5V	
117	+12V	
118	+12V	
119	+12V	
120	+12V	
121	G SIG	
122	G SIG	

CONNECTOR J1

PIN	FUNCTION	SHEET
1A	G SIG	
1B	G SIG	
2A	CA1X-X	
2B	CA1X-X	
3A	CC1X-X	
3B	CC1X-X	
4A	CA3X-X	
4B	CA3X-X	
5A	CC3X-X	
5B	CC3X-X	
6A	CASX-X	
6B	CASX-X	
7A	CC5X-X	
7B	CC5X-X	
8A	CA7X-X	
8B	CA7X-X	
9A	CC7X-X	
9B	CC7X-X	
10A		
10B		
11A		
11B		
12A		
12B		
13A	X56X-X	
13B	X57X-X	
14A	X54X-X	
14B	X55X-X	
15A	X52X-X	
15B	X53X-X	
16A	X50X-X	
16B	X51X-X	
17A	TSLX	
17B	TSLX	
18A	G SIG	
18B	G SIG	
19A	TSHX	
19B	TSHX	

CONNECTOR J1

PIN	FUNCTION	SHEET
20A	S1CX 3	
20B	S1CX- 3	
21A	D1EX 3	
21B	S14X 3	
22A	S14X- 3	
22B	D14X 3	
23A	S13X 3	
23B	S13X- 3	
24A	D13X 3	
24B	S12X 3	
25A	S12X- 3	
25B	D12X 3	
26A	S11X 3	
26B	S11X- 3	
27A	D11X 3	
27B	S10X 3	
28A	S10X- 3	
28B	D10X 3	
29A	S09X 3	
29B	S09X- 3	
30A	D09X 3	
30B	S08X 3	
31A	S08X- 3	
31B	D08X 3	
32A	S17X	
32B	S17X-	
33A	D17X	
33B	S16X	
34A	S16X-	
34B	D16X	
35A	S07X 3	
35B	S07X- 3	
36A	D07X 3	
36B	S06X 3	
37A	S06X- 3	
37B	D06X 3	
38A	S05X 3	
38B	S05X- 3	

CONNECTOR J1

PIN	FUNCTION	SHEET
39A	L05X 3	
39B	S04X 3	
40A	S04X- 3	
40B	D04X 3	
41A	S03X 3	
41B	S03X- 3	
42A	D03X 3	
42B	S02X 3	
43A	S02X- 3	
43B	D02X 3	
44A	S01X	
44B	S01X-	
45A	CC0X 3	
45B	S00X	
46A	S00X-	
46B	D00X 3	
47A	G SIG	
47B	G SIG	
48A	G SIG	
48B	G SIG	
49A	G SIG	
49B	G SIG	
50A	YS1X-X	
50B	YS0X-X	
51A	YS3X-X	
51B	YS2X-X	
52A	YS5X-X	
52B	YS4X-X	
53A	YS7X-X	
53B	YS6X-X	
54A		
54B		
55A		
55B		
56A		
56B		
57A	CAGX-X	
57B	CAGX-X	

CONNECTOR J1

PIN	FUNCTION	SHEET
58A	CC6X-X	
58B	CC6X-X	
59A	CA4X-X	
59B	CA4X-X	
60A	CC4X-X	
60B	CC4X-X	
61A	CA2X-X	
61B	CA2X-X	
62A	CC2X-X	
62B	CC2X-X	
63A	CA0X-X	
63B	CA0X-X	
64A	CC0X-X	
64B	G SIG	
65B	G SIG	

91D0285
F

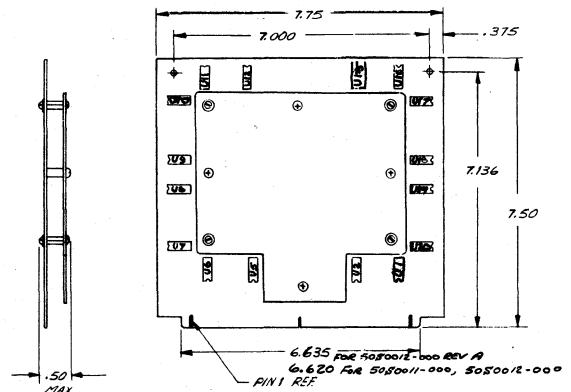
NOTE: UNLESS OTHERWISE SPECIFIED

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SCALE NONE	SHEET 4 OF 4		

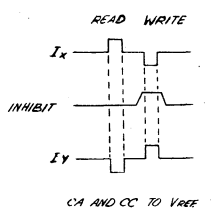
REVISIONS			SIGNATURE AND DATE	
LTR	ZONE	DESCRIPTION	BY	ENG/GR
4		ERH T8G-C		

PIN ASSIGNMENT

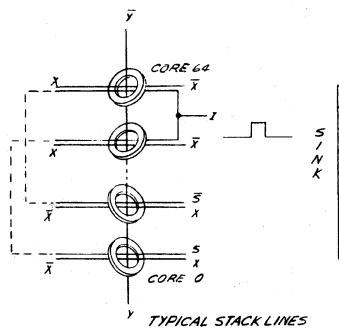
PIN	SIDE "A"	SIDE "B"
1	GND	GND
2	CA1	CC1
3	CA3	CC3
4	CA5	CC5
5	CA7	CC7
6	CA9	CC9
7	CA11	CC11
8	CA13	CC13
9	CA15	CC15
10	CA17	CC17
11	CA19	CC19
12	CA21	CC21
13	CA23	CC23
14	CA25	CC25
15	CA27	CC27
16	CA29	CC29
17	CA31	CC31
18	CA33	CC33
19	CA35	CC35
20	CA37	CC37
21	CA39	CC39
22	CA41	CC41
23	CA43	CC43
24	CA45	CC45
25	CA47	CC47
26	CA49	CC49
27	CA51	CC51
28	CA53	CC53
29	CA55	CC55
30	CA57	CC57
31	CA59	CC59
32	CA61	CC61
33	CA63	CC63
34	CA65	CC65
35	CA67	CC67
36	CA69	CC69
37	CA71	CC71
38	CA73	CC73
39	CA75	CC75
40	CA77	CC77
41	CA79	CC79
42	CA81	CC81
43	CA83	CC83
44	CA85	CC85
45	CA87	CC87
46	CA89	CC89
47	CA91	CC91
48	CA93	CC93
49	CA95	CC95
50	CA97	CC97
51	CA99	CC99
52	CA101	CC101
53	CA103	CC103
54	CA105	CC105
55	CA107	CC107
56	CA109	CC109
57	CA111	CC111
58	CA113	CC113
59	CA115	CC115
60	CA117	CC117
61	CA119	CC119
62	CA121	CC121
63	CA123	CC123
64	CA125	CC125
65	CA127	CC127



TYPICAL TEST PROGRAM TIMING



SIDE "A" SHOWN



DRIVE

U20	U9	U18	U7	U19	U10	U17	U8	
CC0	CC1	CC2	CC3	CC4	CC5	CC6	CC7	
CA0	CA1	CA2	CA3	CA4	CA5	CA6	CA7	
X50	0	2	16	18	45	47	61	63
X51	1	3	17	19	44	46	60	62
X52	4	6	20	22	41	43	57	59
X53	5	7	21	23	40	42	56	58
X54	8	10	24	26	37	39	53	55
X55	9	11	25	27	36	38	52	54
X56	12	14	28	30	33	35	49	51
X57	13	15	29	31	32	34	48	50

"X" DECODE DRIVE

U1	U11	U16	U2	U12	U15	U5		
CC0	CC1	CC2	CC3	CC4	CC5	CC6	CC7	
CA0	CA1	CA2	CA3	CA4	CA5	CA6	CA7	
Y50	0	2	16	18	32	34	48	50
Y51	1	3	17	19	33	35	49	51
Y52	4	6	20	22	36	38	52	54
Y53	5	7	21	23	37	39	53	55
Y54	8	10	24	26	40	42	56	58
Y55	9	11	25	27	41	43	57	59
Y56	12	14	28	30	44	46	60	62
Y57	13	15	29	31	45	47	61	63

WORST CASE PATTERN

	Y0	Y1	Y2	Y3	Y31	Y32	Y63
X0	1	1	1	1	1	0	0
X1	0	0	0	0	0	1	1
X2	1	1	1	1	1	0	0
X3	0	0	0	0	0	1	1
X63	0	0	0	0	0	1	1

- 6 INTEGRATED CIRCUIT U3, U4, U13 & U14 NOT USED.
 - 5 PCB TYPE: PLANAR PLUGGABLE, COMPONENTS AND CORES ON ONE SIDE.
 - 4 CAPACITY: 4KX18 18 MIL MAX. (COINCIDENT) 8KX9 18 MIL MAX. (COINCIDENT/ANTICOINCIDENT, 4K DECODE).
 - 3 WIRING: 3 WIRE - 3D X & Y - CONTINUOUSLY WIRED SENSE/INHIBIT - BOWTIE 3 POINT TERMINATION.
 - 2 DIODE TYPE: INTEGRATED CIRCUIT - DIODE ARRAY, DUAL-IN-LINE 16 DIODES PER PACKAGE, AMPEX PN 586-687.
 - 1 CONNECTION TYPE: TOTAL 130 CONTACTS, 65 CONTACTS EACH SIDE SPACED AT .100. MATING CONNECTOR TYPE IS MASTERITE IND. PN 009GR65-DR-B-X OR EQUIV.
- NOTES: UNLESS OTHERWISE SPECIFIED.

NOTICE		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.		SIGNATURE		DATE		COMPUTER PRODUCTS DIV Culver City, California 90230	
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DO NOT SCALE THIS PRINT		REMOVE BURRS AND SHARP EDGES YES [] NO []		DFT APPD		ENG/GR APPD		ELECTRICAL/MECHANICAL INTERFACE AND SCHEMATIC	
MATERIAL:		FINISH:		AUTH BY		SCALE		SIZE CODE IDENT NO. 09150 3238441	
DRAWN BY: SAN		3256873 3483-4411		NEXT ASSY USED ON APPLICATION		SHEET 1 OF 1			