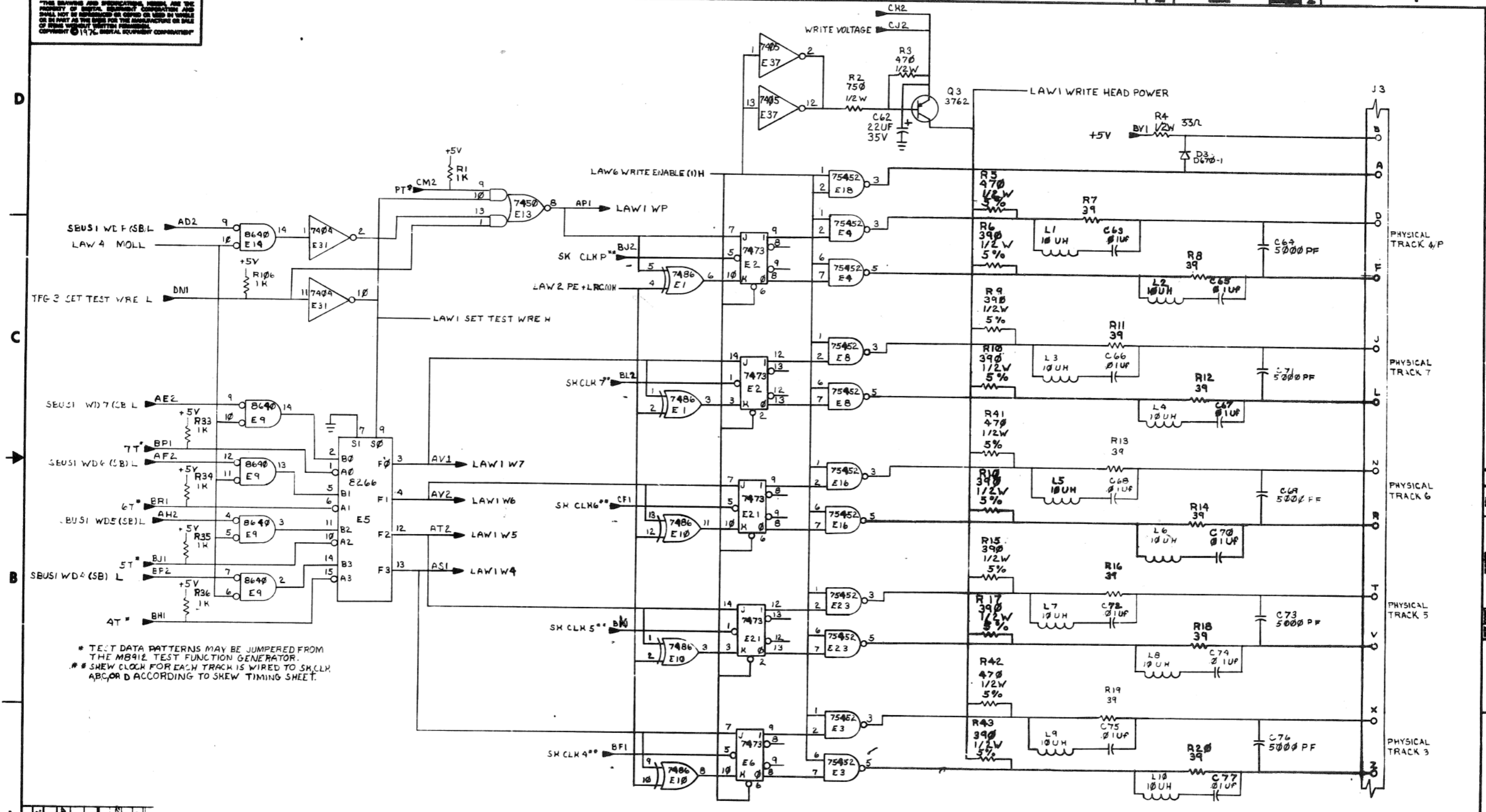


TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	REV
TEL6 MAGNETIC TAPE DRIVE		B DD	TEL6-Ø	

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1-0-91E8W S D 2



* TEST DATA PATTERNS MAY BE JUMPED FROM THE M8912 TEST FUNCTION GENERATOR.
 # SHEW CLOCK FOR EACH TRACK IS WIRED TO SK CLK A, B, C, OR D ACCORDING TO SHEW TIMING SHEET.

REV. 1	DATE 11/14/74	BY H. DRAB
REV. 2	DATE 11/14/74	BY H. DRAB
REV. 3	DATE 11/14/74	BY H. DRAB
REV. 4	DATE 11/14/74	BY H. DRAB
REV. 5	DATE 11/14/74	BY H. DRAB
REV. 6	DATE 11/14/74	BY H. DRAB
REV. 7	DATE 11/14/74	BY H. DRAB

DRWG. G. HOBBS 9-76	PHYS. NO. OR PART NO.	TU16-J
CHK'D	DATE	
ENL. C. H.	DATE	
PROJ. ENG. S. J.	DATE	
PROD. S. J.	DATE	
NEXT HIGHER ASSY.		
B-DD-46916-0-1	SIZE CODE	NUMBER
SCALE	D CS M8916-0-1	REV. D
SHEET 1 OF 7	DRY.	

8

7

6

5

4

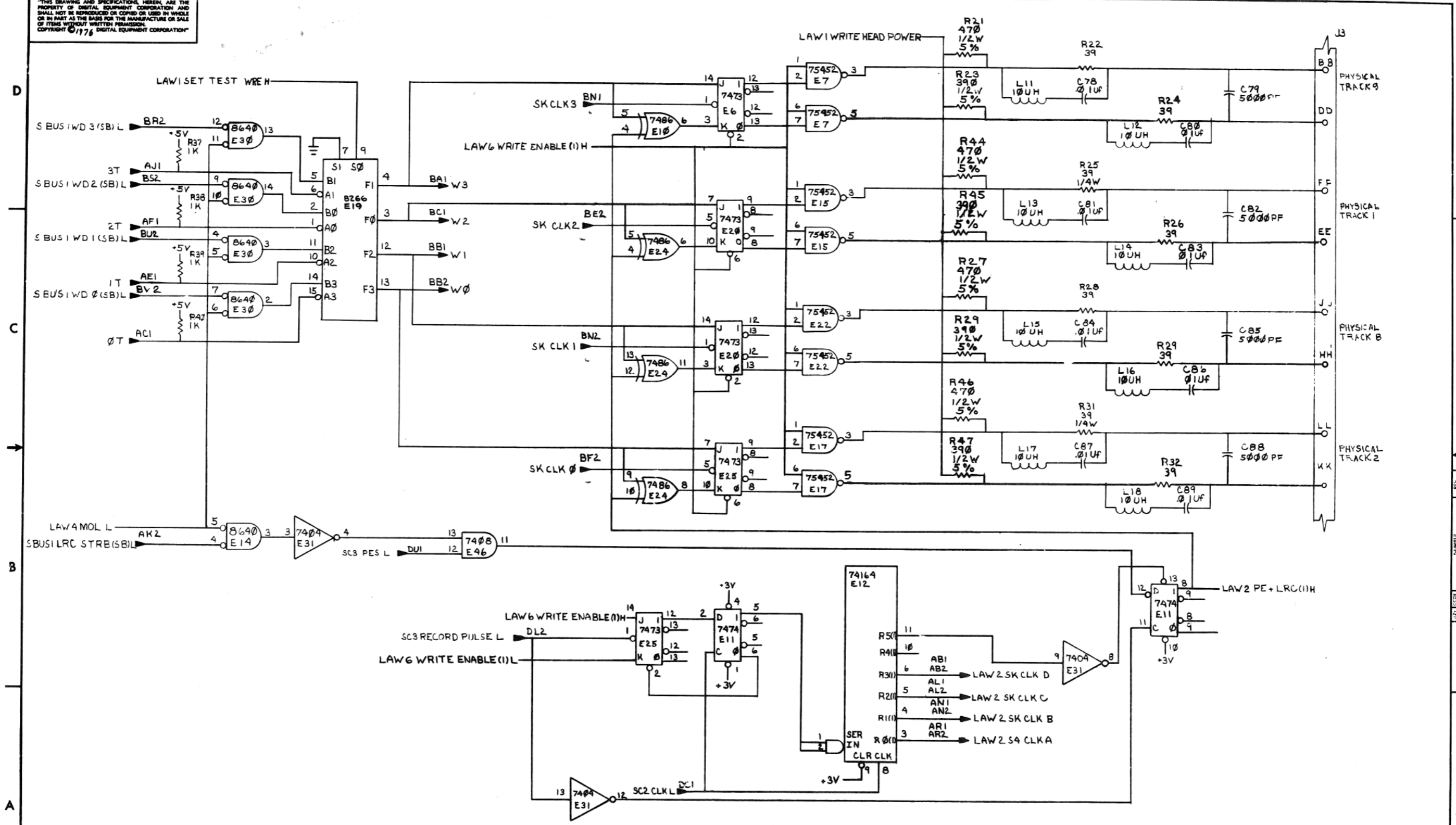
3

2

1

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1-0-9168W SCS 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LOGIC AND WRITE BOARD LAW2	SIZE CODE	D CS	NUMBER	M8916-0-1	REV.	0
SCALE		SHEET	2 OF 7	DIST.			

8

7

6

5

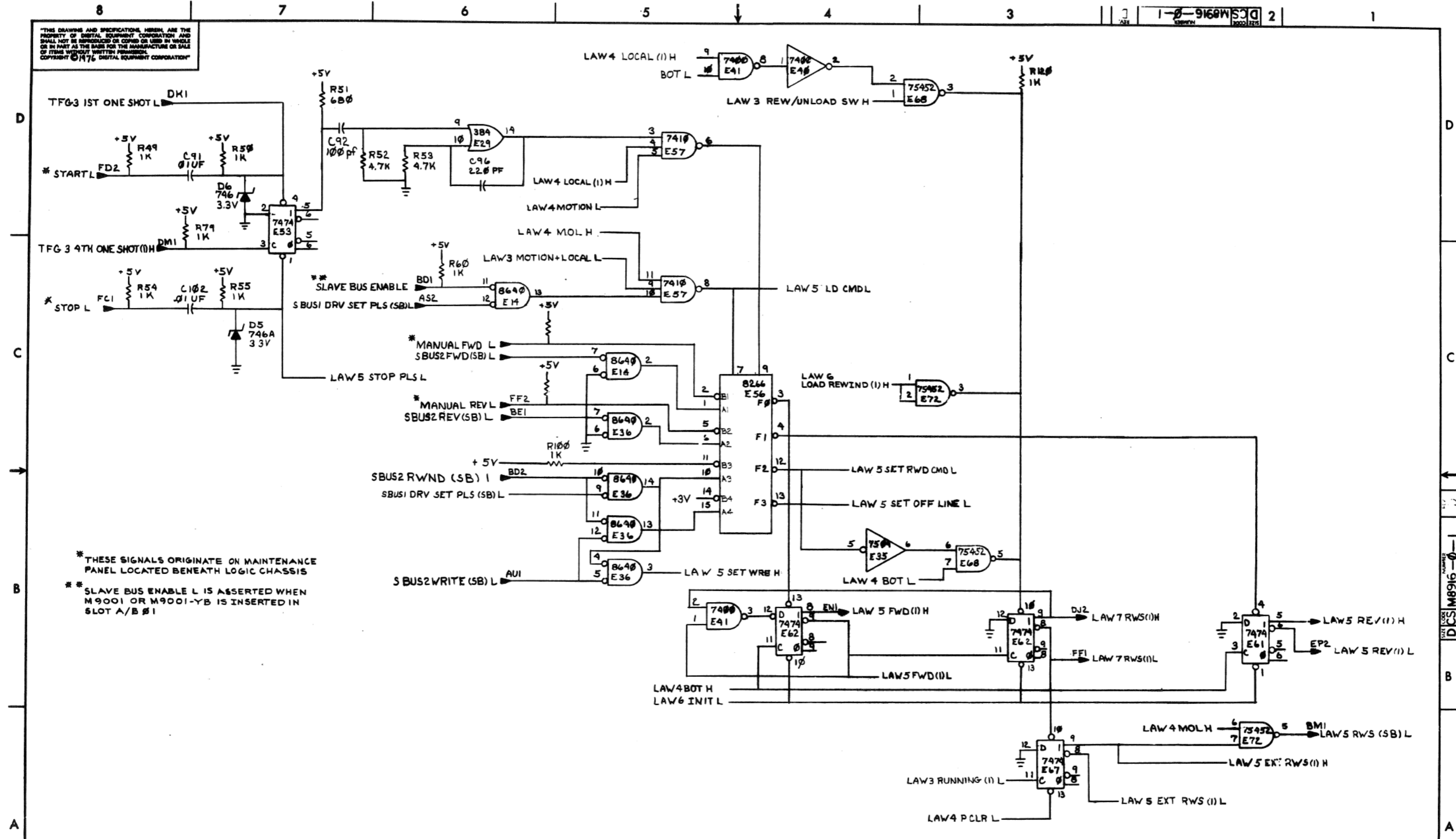
4

3

2

1

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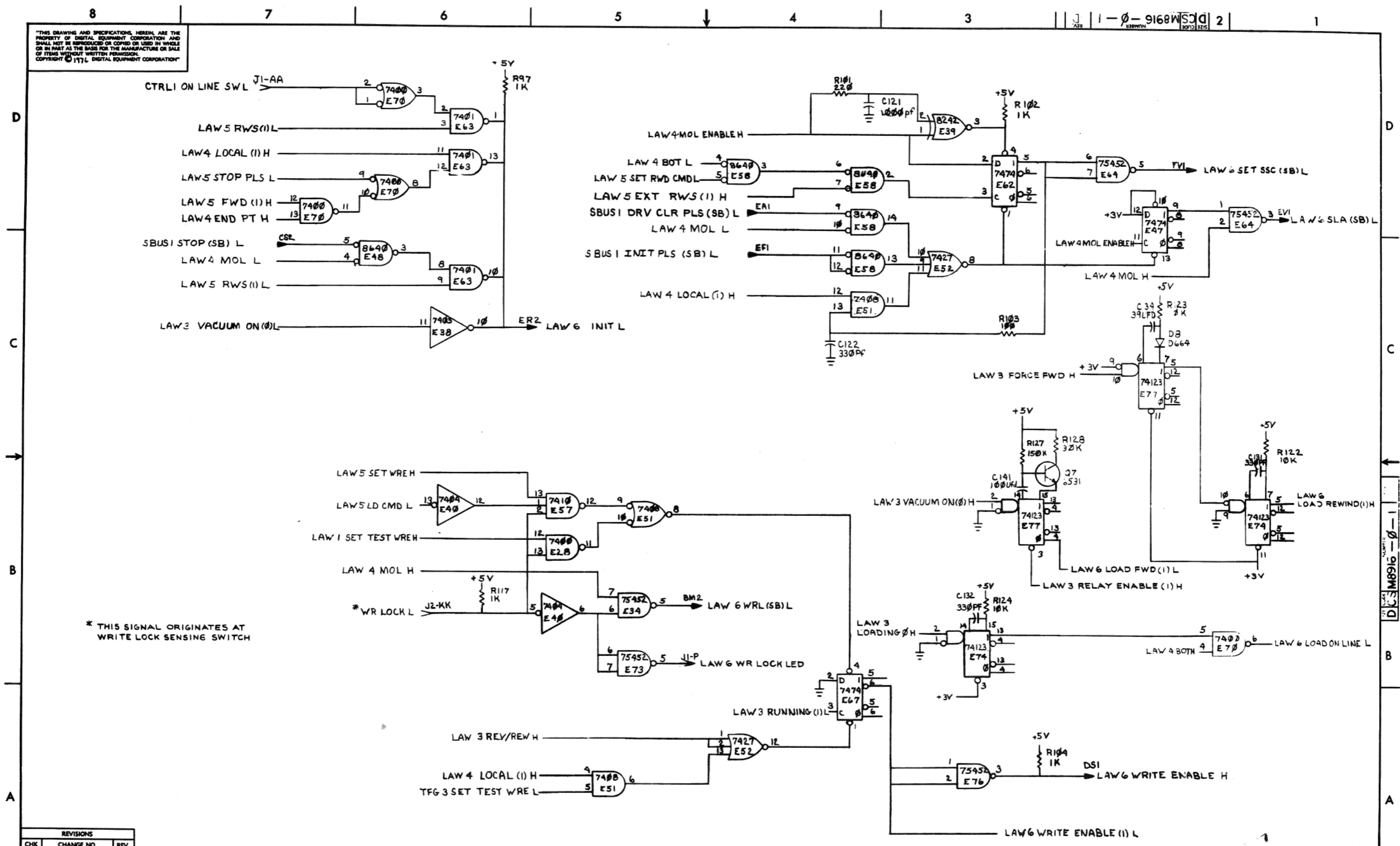


* THESE SIGNALS ORIGINATE ON MAINTENANCE PANEL LOCATED BENEATH LOGIC CHASSIS

* SLAVE BUS ENABLE L IS ASSERTED WHEN M9001 OR M9001-YB IS INSERTED IN SLOT A/B #1

REVISIONS		
CHK	CHANGE NO.	REV.

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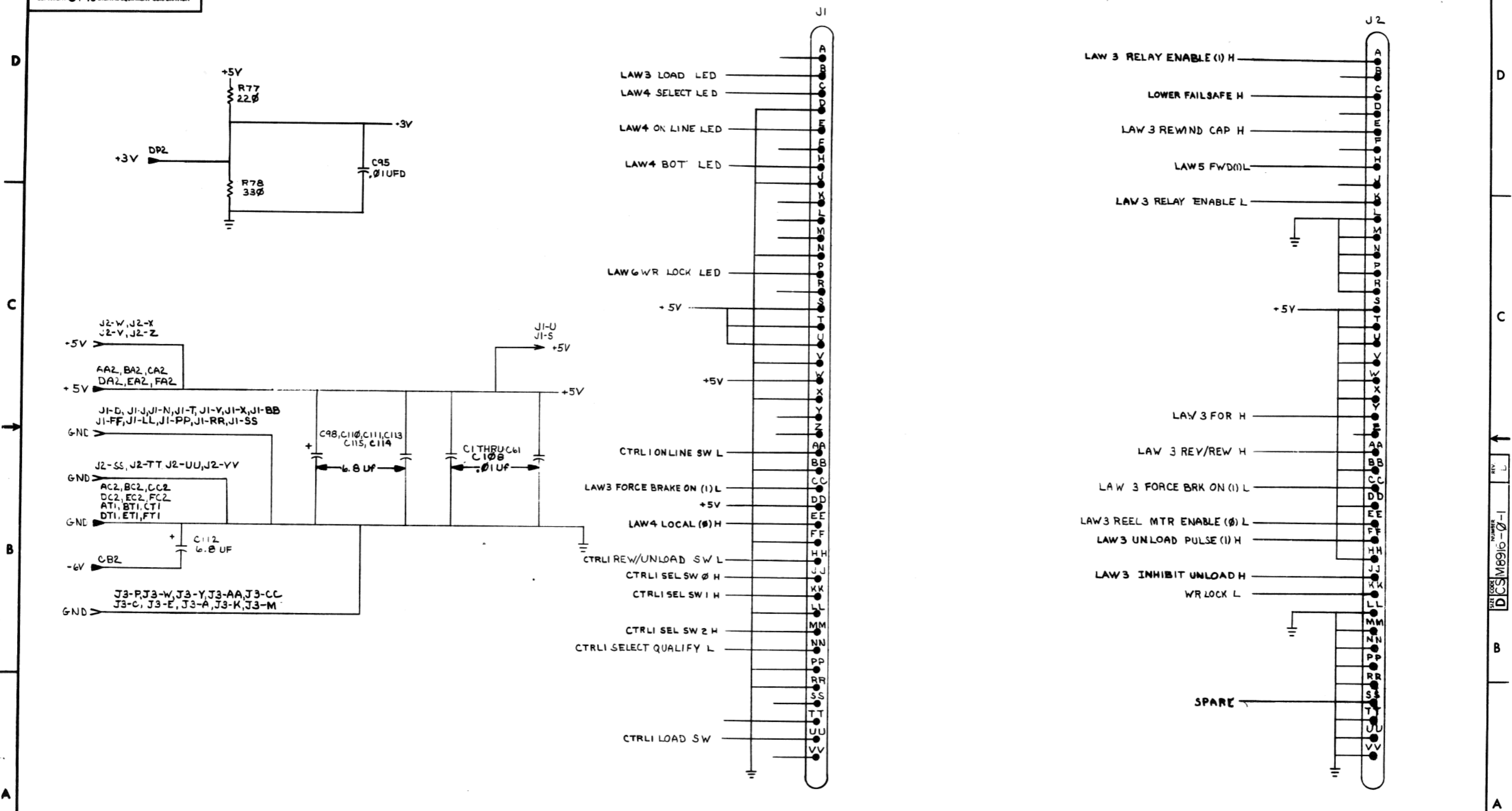
REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1		
TITLE LOGIC AND WRITE BOARD LAW 6 DCS M8916 - 0-1							SIZE CODE	NUMBER	REV.
SCALE							SHEET 6 OF 7	DIST.	

DCS M8916 - 0-1

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1-0-9168W [CS] M8916-0-1 2



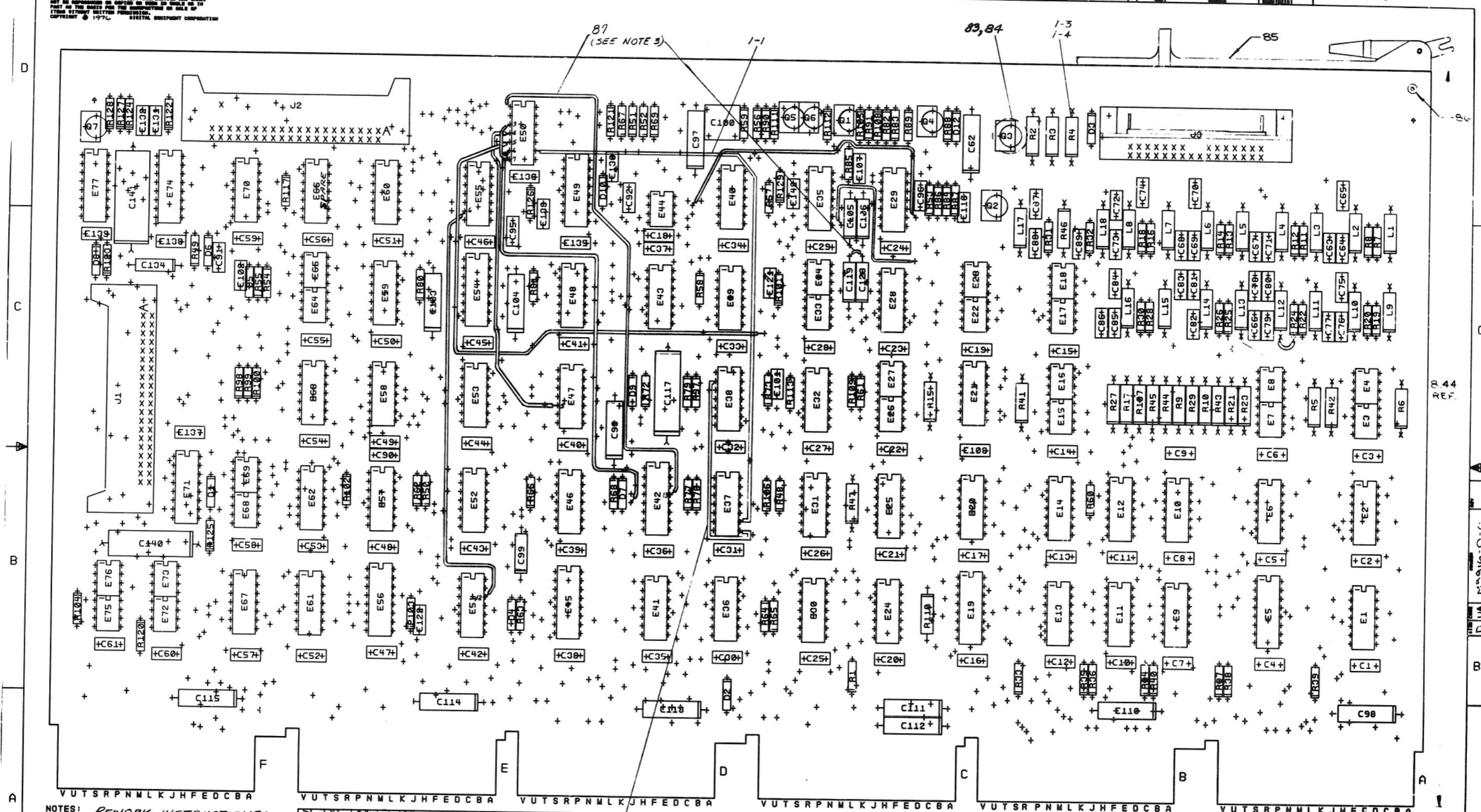
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: LOGIC AND WRITE BOARD LAW 3
 SIZE CODE: D
 NUMBER: CS M8916-0-1
 REV.: D
 SCALE: / / SHEET T OF T
 DIST.:

REV. L
 CS M8916-0-1

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0-0-91694 3 2 1



NOTES: **REWORK INSTRUCTIONS:**

1. ALL COMPONENTS SHOWN ARE TO BE INSTALLED WITH * SIDE TOWARD FINGER END.
2. 6.5MM CUTS SHOWN ON SHEET 2.
3. ADD 11 JUMPER WIRES, ITEM 87.
- ECO #1: 1-1. ADD WIRE, E50-9 TO E37 PINS.
- 1-2. ADD WIRE, E17-B TO E38-2.
- 1-3. DELETE COMPONENT R4 (P/N 13-00274-00)
- 1-4. ADD COMPONENT R4 (P/N 13-00195-00)

CHANGE NO	REV	DESCRIPTION	DATE
1	1	INITIAL	5-77
2	1	ADD WIRE, E50-9 TO E37 PINS	5-77
3	1	ADD WIRE, E17-B TO E38-2	5-77
4	1	DELETE COMPONENT R4 (P/N 13-00274-00)	5-77
5	1	ADD COMPONENT R4 (P/N 13-00195-00)	5-77

ETCH REV. C
P.C. DESIGN DATA BASE REV. CL

SIGNATURES		DATE
DRN. J. FRIEDLAND		5-77
CHK'D. J. B. ...		5-77
ENG. ...		5-77
PROJ. ENG. ...		5-77
PROD. ...		5-77
SCALE 2/1		
SHT. 1 OF 4		
NEXT HIGHER ASSY. B-DD-M8916-0		

digital

TITLE LOGIC AND WRITE BOARD

SIZE CODE 0 JA NUMBER 13-00195-00 REV

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION								NOTES:
PARTS LIST												USED ON OPTION/MODEL
MADE BY H. Weinbrenner		CHECKED <i>P. Basman</i>										TE 16
DATE 8/10/76		DATE 17 Nov 76										
ENG <i>G. Dent</i>		PROD <i>A. Dillard</i>										
DATE 12/21/76		DATE 21 DEC 76										
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF								REF DESIGNATION
	B-DD-M8916-Ø		DWG DIRECTORY	REF								
	D-UA-M8916-Ø-Ø		UNIT ASSEMBLY	REF								
	D-CS-M8916-Ø-1		CIRCUIT SCHEMATIC	REF								
	D-MD-5012345-Ø-Ø		DRILL & ETCH DWG	REF								
1		5012345	ETCHED BOARD	1								
2		10-00021-00	CAP 220 PF 100V 5% (DM)	1								C96
3		10-00023-00	CAP 330 PF 100V 5% (DM)	4								C122,C130,C131, C132
4		10-00043-00	CAP 1000 PF 250V 20% (DISC)	3								C121,C133,C142
5		10-00064-00	CAP 3.9 UF 10% 10V (TANT)	6								C99,C105,C106,C119,C123,C134
6		10-00076-00	CAP 39 UF 10% 10V (TANT)	3								C97,C93,C104
7		10-04812-00	CAP 15 UF 20V 10% (TANT)	1								C103
8		10-01774-00	CAP .05 UF 25V 20% (DISC)	1								C100
9		10-02433-00	CAP 22 UF 35V 20% (TANT)	1								C62
10		10-09808-00	CAP 330 UF 20% (TANT)	2								C117,C140
11		10-05306-00	CAP 6.8 UF 35V 10% (TANT)	7								C98, C110 thru C115
12		10-01765-00	CAP 5000 PF 100V 20% (DISC)	11								C64,C69,C71,C73,C76,C79,C82,C85,C88, C107,C116
13		10-01610-01	CAP .01 UF 100V (DISC)	89								C1 thru C61, C65 thru C68,C63,C70,C72, C74,C75,C77,C78,C80,C81,C83,C84,C86,C87, C89,C91,C95,C101,C102,C108,C135 thru C139

E.C.O. NO.
0001
0002

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TITLE
LOGIC AND WRITE BOARD

ASSY NO.
D-UA-M8916-0-0
SHEET 1 OF 5

SIZE CODE NUMBER
B PL M8916-0-0

REV.
D

INSERT ON PARTS LIST DATA BASE REV B

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:			
PARTS LIST														USED ON OPTION/MODEL			
MADE BY H. Weinbrenner		CHECKED <i>P. Bosman</i>												TE 16			
DATE 8/10/76		DATE 17 Nov 76															
ENG <i>S. Shank</i>		PROD <i>H. Dillard</i>															
DATE 21 Dec 76		DATE 21 DEC 76															
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION														REF DESIGNATION
14		10-00024-00	CAP 470 PF 100V 5% (DM)	1													C90
15		10-00016-00	CAP 100 PF 100V 5% (DM)	1													C92
16		10-04815-00	CAP 100 UF 20V 10% (TANT)	1													C141
17																	
18																	
19		11-00114-00	DIODE D664	7													D1, D2, D4, D7, D8, D9, D10
20		11-00122-00	DIODE 1N748A 3.9V	1													D12
21		11-02162-00	DIODE D670-1	1													D3
22		11-04860-00	DIODE 1N746A 3.3V	2													D5, D6
23																	
24																	
25		12-09941-02	CONN. 40 PIN RT. ANGLE HDR	2													J1, J12
26		12-10067-02	CONN. 28 PIN	1													J3
27																	
28																	
29		13-00195-00	RESISTOR 33 Ω 1/2W 5%	1													R4
30		13-00271-00	RESISTOR 220 Ω 1/4W 5%	5													R66, R77, R101, R112, R129
31		13-00295-00	RESISTOR 330 Ω 1/4W 5%	1													R78
32		13-00315-00	RESISTOR 470 Ω 1/2W 5%	10													R3, R5, R9, R15, R21, R27, R41, R42, R44, R46

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EC.O. NO. _____

TITLE: LOGIC AND WRITE BOARD

ASSY NO.: D-UA-M8916-0-0

SIZE: B CODE: PL NUMBER: M8916-0-0 REV. 0

SHEET 2 OF 5

INSERTION PARTS LIST DATA BASE REV B

LN 01140A-16 R 276(325) DRB 125

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

USED ON OPTION/MODEL
TE 16

MADE BY H. Weinbrenner	CHECKED <i>D. Bowen</i>	SECTION 1
DATE 8/10/76	DATE 17 Nov 76	
ENG <i>H. Weinbrenner</i>	PROD <i>H. Dillard</i>	ISSUED SECTION 1
DATE 21 Dec 76	DATE 21 Dec 76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	VARIATION	REF DESIGNATION
33		13-00365-00	RESISTOR 1K 1/4W 5%	35		R1,R33,thru R40,R48 thru R50, R54 thru R61, R79,R89,R90,R97 thru R100, R102,R104,R106, R109,R111,R113,R117,R120
34		13-00398-00	RESISTOR 1.8K 1/4W 5%	2		R86,R108
35		13-00444-00	RESISTOR 3.9K 1/4W 5%	2		R64,R67
36		13-00447-00	RESISTOR 4.7K 1/4W 5%	2		R52,R53
37		13-00479-00	RESISTOR 10K 1/4W 5%	6		R63,R68,R121 thru R124
38		13-00488-00	RESISTOR 12K 1/4W 5%	1		R69
39		13-01320-00	RESISTOR 1.2K 1/4W 5%	3		R73,R82,R84
40		13-01423-00	RESISTOR 6.8K 1/4W 5%	2		R83,R85
41		13-01424-00	RESISTOR 680 1/4W 5%	1		R51
42		13-02177-00	RESISTOR 47K 1/4W 5%	2		R72,R125
43		13-02377-00	RESISTOR 39 1/4W 5%	18		R7,R8,R11 thru R14,R16, R18,R19,R20,R22, R24,R25,R26,R28,R30,R31,R32
44		13-05346-00	RESISTOR 27K 1/4W 5%	2		R87,R105
45		13-00229-00	RESISTOR 100 1/4W 5%	4		R62,R88,R91,R103
46		13-00354-00	RESISTOR 750 1/2W 5%	1		R2
47		13-02391-00	RESISTOR 20K 1/4W 5%	2		R80,R126
48		13-01695-00	RESISTOR 47 1/2W 5%	1		R110
49		13-00308-00	RESISTOR 390 1/2W 5%	9		R6,R10,R17,R23,R29,R45,R43,R47,R107

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	LOGIC AND WRITE BD.	D-UA-M8916-0-0	B	PL	M8916-0-0	D
SHEET 3 OF 5			INSERTION PARTS LIST DATA BASE REV B			

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

USED ON: OPTION/MODEL
TE 16

MADE BY H. Weinbrenner	CHECKED <i>J. Bassman</i>	SECTION 1
DATE 8/10/76	DATE 17 Nov 76	
ENG <i>S. Hunt</i>	PROD <i>S. Dillard</i>	ISSUED SECTION 1
DATE 21-Dec-76	DATE 21 Dec 76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	UNIT	REF DESIGNATION
50		13-01808-00	RESISTOR 22K 1/4W 5%	1		R81
51		13-00219-00	RESISTOR 68 1/4W 5%	1		R65
52		13-02396-00	RESISTOR 150K 1/4W 5%	1		R127
53		13-02394-00	RESISTOR 30K 1/4W 5%	1		R128
54						
55						
56						
57		15-03409-01	TRANSISTOR 6534B	2		Q1,Q2
58		15-09338-00	TRANSISTOR 6531	4		Q4 thru Q7
59		15-09649-00	TRANSISTOR 3762	1		Q3
60		16-09477-00	INDUCTOR 10 10%	18		L1 thru L18
61						
62						
63		19-05547-00	I.C. DEC 7474	8		E11,E53,E55,E61,E62,E67,E47,E50
64		19-05575-00	I.C. DEC 7400	4		E28,E41,E60,E70
65		19-05576-00	I.C. DEC 7410	1		E57
66		19-10645	I.C. DEC 75452	1		E44
67		19-05587-00	I.C. DEC 7473	5		E2,E6,E20,E21,E25
68		19-05590-00	I.C. DEC 7401	1		E63

E.C.O. NO.

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TITLE
LOGIC AND WRITE BOARD

ASSY NO.
D-UA-M8916-0-0
SHEET 4 OF 5

SIZE	CODE	NUMBER	REV.
B	PL	M8916-0-0	D

INSERTION PARTS LIST DATA BASE REV B

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:				
PARTS LIST														USED ON: OPTION/MODEL TE 16				
MADE BY H. Weinbrenner		CHECKED <i>D. Bosman</i>												REF DESIGNATION				
DATE 8-10-76		DATE 17 Nov 76																
ENG <i>H. Dillard</i>		PROD <i>H. Dillard</i>																
DATE 21-Dec-76		DATE 21 Dec 76																
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION															
69		19-09004-00	I.C. DEC 7402	2														E43, E59
70		19-09486-00	I.C. DEC 384	1														E29
71		19-09686-00	I.C. DEC 7404	3														E31, E35, E40
72		19-09712-00	I.C. DEC 8242	1														E39
73		19-09930-00	I.C. DEC 7405	2														E37, E38
74		19-09934-00	I.C. DEC 8266	3														E5, E19, E56
75		19-10011-00	I.C. DEC 7486	3														E1, E10, E24
76		19-10041-00	I.C. DEC 74164	1														E12
77		19-10155-00	I.C. DEC 7408	3														E46, E51, E32
78		19-10436-00	I.C. DEC 74123	7														E42, E45, E54, E49, E77, E71, E74
79		19-10878-00	I.C. DEC 7427	1														E52
80		19-11469-00	I.C. DEC 8640	6														E9, E14, E30, E36, E48, E58
81		19-05580-00	I.C. DEC 7450	1														E13
82		19-10645-01	I.C. DEC 75452	11														(E3, E4)(E7, E8)(E15, E16)(E17, E18)(E22, E23)(E26, E27), (E33, E34)(E64, E65)(E68, E69)(E72, E73)(E75, E76) (FOR Q3)
83		90-07201-00	TRANSIPAD	1														
84		12-10001-00	HEAT SINK	1														
85		12-10711-02	HANDLE ASSY.	1														
86		9006732-00	EYELET	12														
87		9105740-55	WIRE, #30 AWG, GRN	AR														

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TITLE
LOGIC AND WRITE BOARD

ASSY NO.
D-UA-M8916-0-0

SIZE CODE
B PL

NUMBER
M8916-0-0

REV.
D

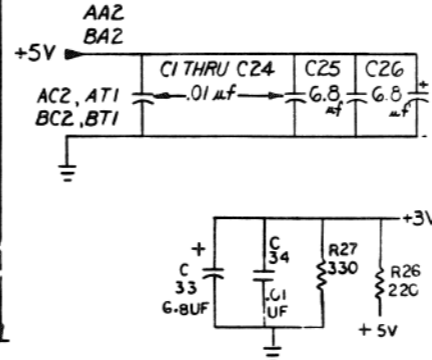
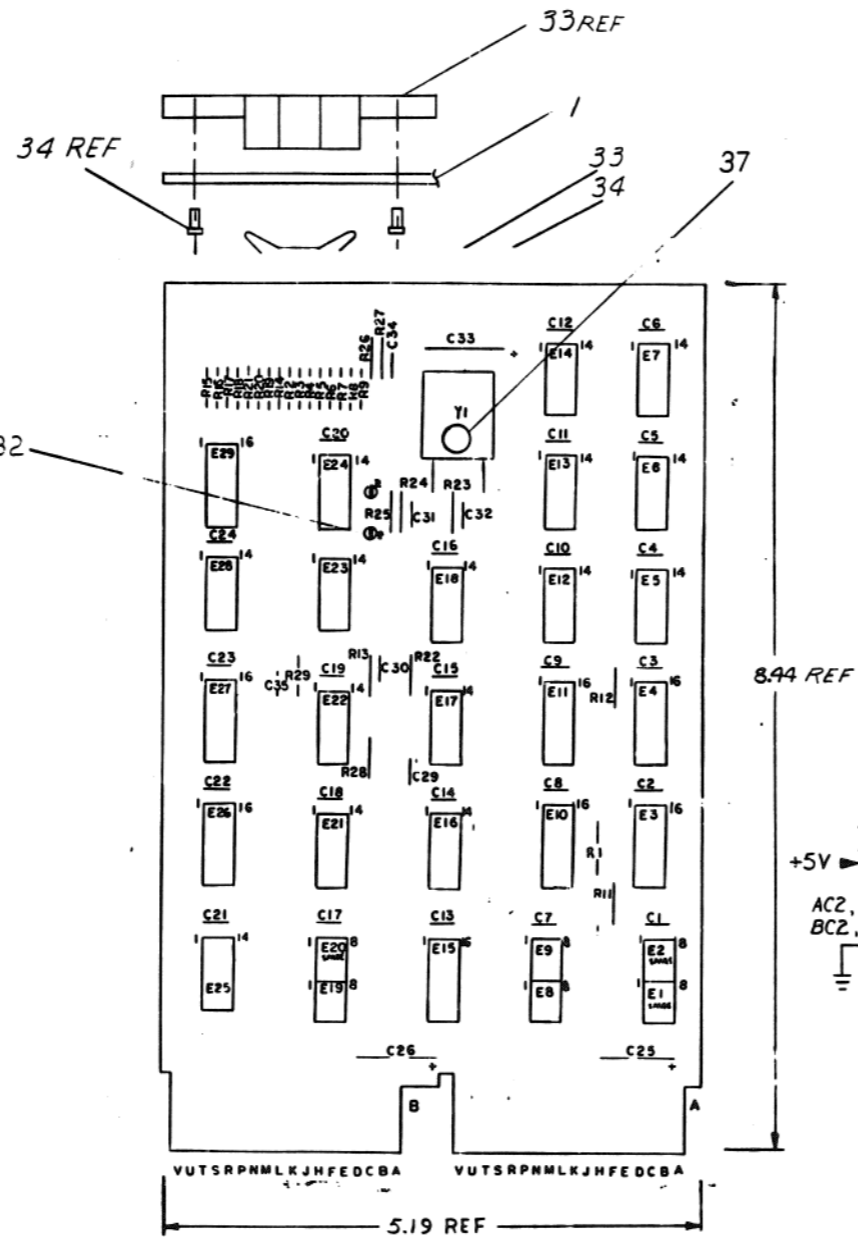
SHEET 5 OF 5

INSERTION PARTS LIST DATA BASE REV B

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NOTES:



REF	REF	REF	REF	REF	REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8911-0-1	REF
REF	REF	REF	REF	REF	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8911-0-1	REF
REF	REF	REF	REF	REF	REF	MODULE ECO HISTORY	B-MH-M8911-0-6	REF
1	1	1	1	1	1	ETCHED CIRCUIT BOARD	5010471	1
25	25	25	25	25	25	C1 THRU C24, C34	CAP .01 MF	1001610
2	2	2	2	2	2	C29, C30	CAP 1000PF	1003042
2	2	2	2	2	2	C31, C32	CAP .047 MF	1009678
3	3	3	3	3	3	C25, C26, C33	CAP 6.8 MF	1005306
3	3	3	3	3	3	R13, R17, R28	RES 330 1/4 W 5%	1300295
3	3	3	3	3	3	R23 THRU R25	RES 10K 1/4 W 5%	1300479
17	17	17	17	17	17	R1 THRU R9, R14 THRU R21	RES 27K 1/4 W 5%	1300426
3	3	3	3	3	3	R11, R12, R22	RES 1K 1/4 W 5%	1300365
2	2	2	2	2	2	R26, R29	RES 220 1/4 W 5%	1300271
1	1	1	1	1	1	Y1	CRYSTAL 2.304 MHZ	1811110
2	2	2	2	2	2	E23, E28	IC 74197	1910035
3	3	3	3	3	3	E6, E12, E25	IC 7404	1909686
3	3	3	3	3	3	E3, E4, E10	IC 74161	1910650
3	3	3	3	3	3	E5, E13, E18	IC 7402	1909004
1	1	1	1	1	1	E11	IC 7476	1905585
2	2	2	2	2	2	E15, E26	IC 8266	1909934
2	2	2	2	2	2	E7, E14	IC 11380	1911113
1	1	1	1	1	1	E24	IC 380	1912549
3	3	3	3	3	3	E8, E9, E19	IC 75452	1910645
1	1	1	1	1	1	E17	IC 7400	1905575
1	1	1	1	1	1	E16	IC 7408	1910155
1	1	1	1	1	1	E22	IC 7486	1910011
1	1	1	1	1	1	E21	IC 7430	1905578
-	-	-	-	-	-	E27	ROM, MOTION DELAY 3TRK	23067A1
1	1	1	1	1	1	E29	ROM, SKEW DELAY	23089A1
-	-	-	-	-	-	E27	ROM, MOTION DELAY FOR M8911-YB	23180A1
2	2	2	2	2	2		LUG, SFLIT	9006735
2	2	2	2	2	2		HANDLE, FLIP CHIP, MAGENTA	9008337-6
4	4	4	4	4	4		EYELET	9006732
1	1	1	1	1	1	C35	CAP .005UF, 100V, 20% DISC	1001765
-	-	-	-	-	-	E27	ROM, MOTION DELAY, TRK	23147A1
1	1	1	1	1	1		BUMPER, RUBBER SELF STICK	9009530
-	-	-	-	-	-	E27	PROM, MOTION DELAY, GAPLESS	23220A1-00
1	-	-	-	-	-	E27	PROM, MOTION DELAY, SHORT BOT	23221A1-00

IC TYPE	GND	+5V
5600	8	16
8266	8	16
75452	4	8
7476	13	5
74161	8	16

GND AND +5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL: TU16

ETCH BOARD REV: E

REV	DATE	BY	DESCRIPTION
1	10-17-73	U. B.
2	3-23-74
3	7-2-74
4	3-6-74
5	5-7-74

SEMICONDUCTOR CONVERSION CHART

DEC. NO.	EIA NO.	DEC. NO.	EIA NO.

PARTS LIST

QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
M8911-YD					
M8911-YC					
M8911-YB					
M8911-YA					
M8911					

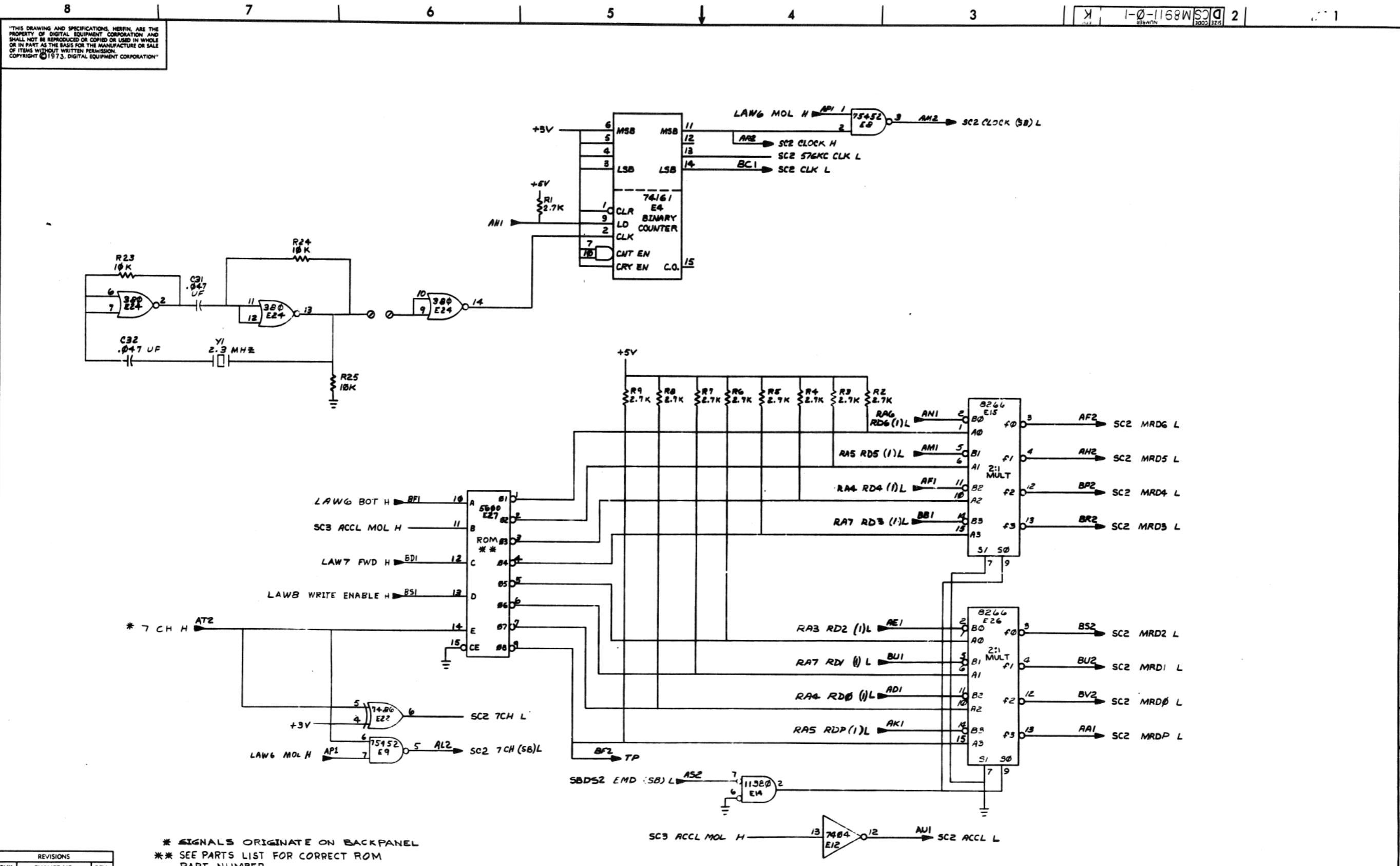
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

SLAVE CLOCK (SCI) MOTION DELAY

SIZE CODE: DCSM8911-0-1

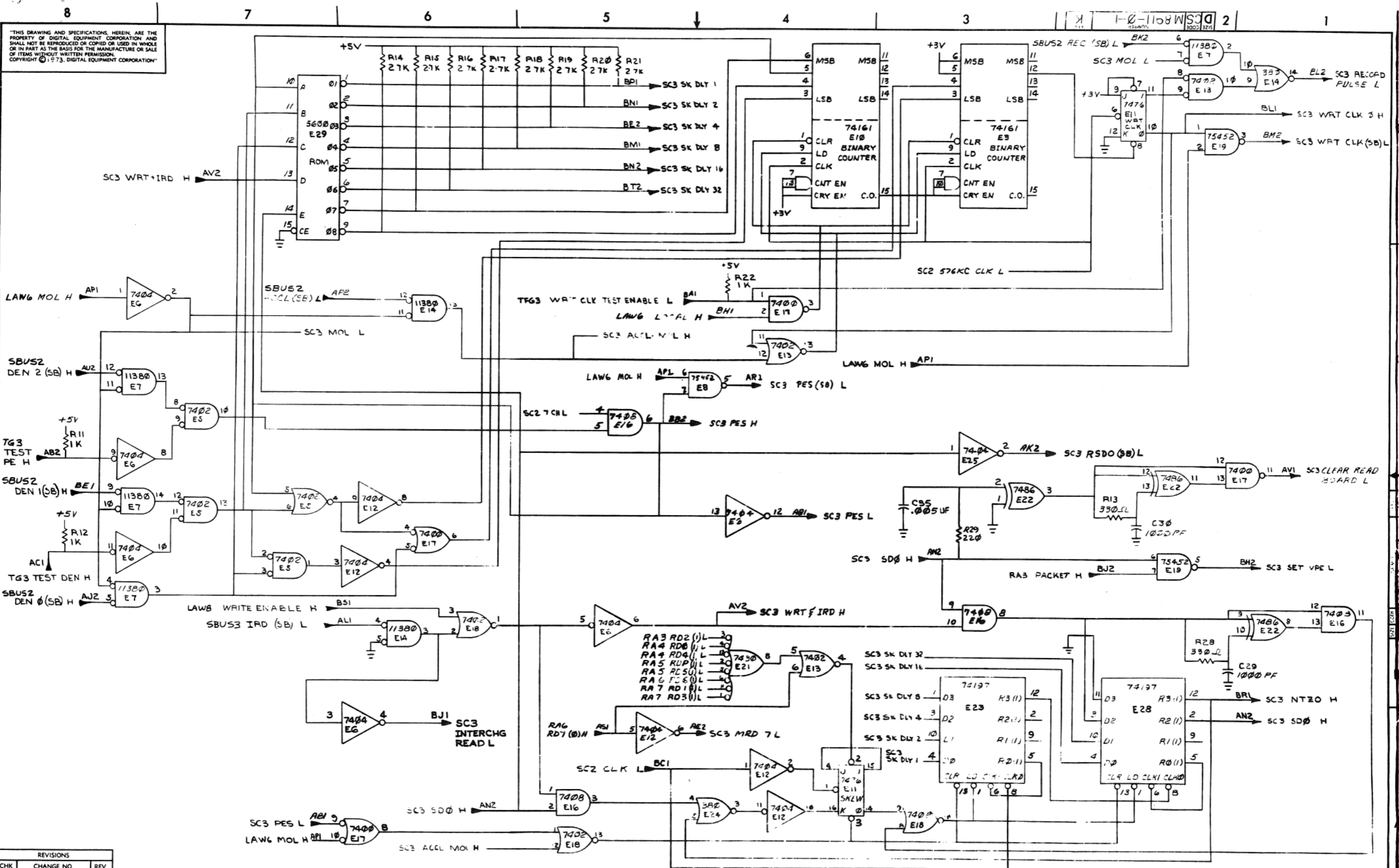
SHEET 1 OF 3

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* SIGNALS ORIGINATE ON BACKPANEL
 ** SEE PARTS LIST FOR CORRECT ROM PART NUMBER

REVISIONS		
CHK	CHANGE NO.	REV.



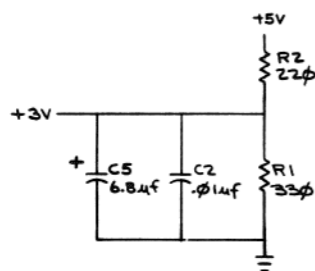
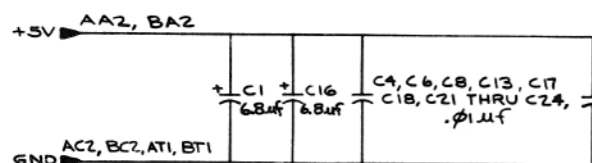
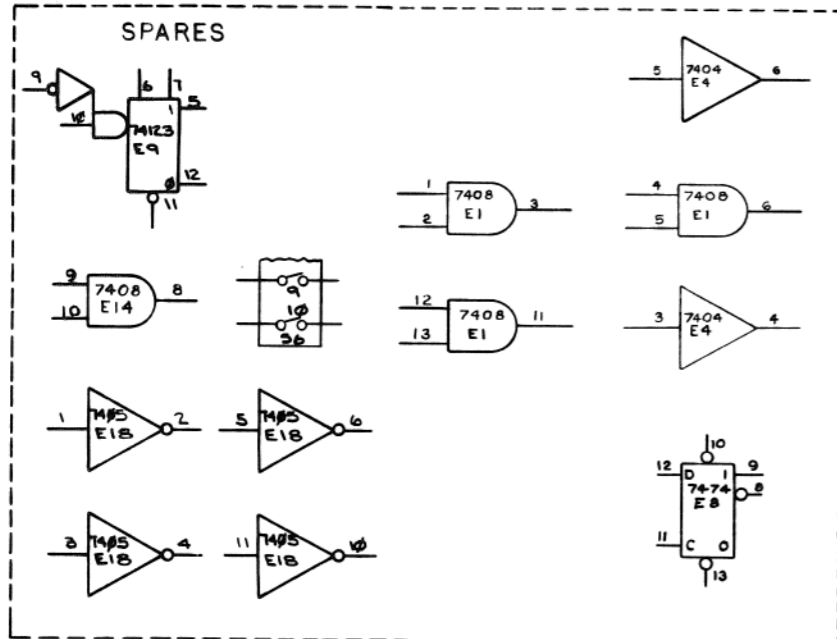
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SLAVE CLK MOTION DLY (SC3)	SIZE CODE	D CS M8911-0-1	NUMBER		REV.	K
SCALE		SHEET	30F3	DIST.			

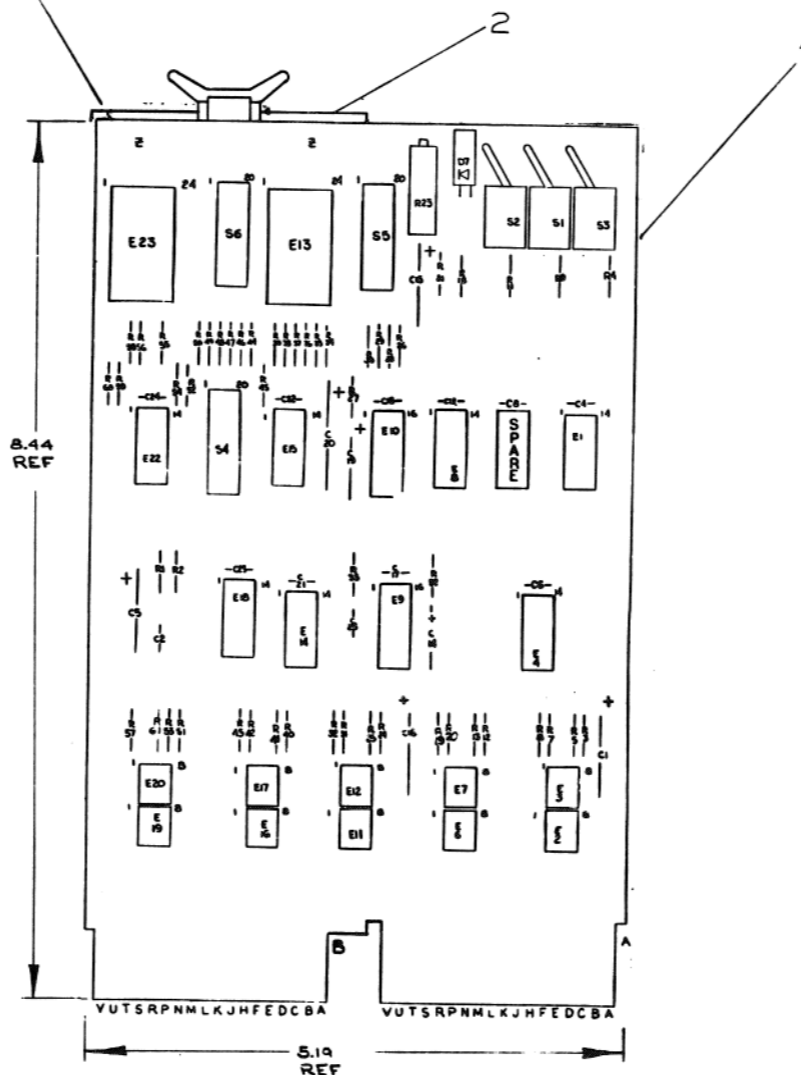
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NOTES:

DASH VAR	DESCRIPTION
-01	TWO PARTS IN ONE 16 PIN CARRIER



34



REF	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
			X-Y COORDINATE HOLE LOCATION	K-60-M8912-Q-4	REF
			ASSY/DRILLING HOLE LAYOUT	D-AH-M8912-Q-5	REF
			MODULE ECO HISTORY	B-MH-M8912-Q-6	REF
1			ETCHED CIRCUIT BOARD	5010674	1
1			HANDLE, FLIP-CHIP, MAGENTA	9008331-06	2
					3
1		C25	CAP 470 Pf 100V 5% D.M.	1000024	4
2		C14, C19	CAP 3.9uf 100V 10% TANT	1000064	5
11		C2, C4, C17, C18, C21-24, C6, C8, C13	CAP .01uf 100V 20% DISC	1001610-01	6
1		C15	CAP 10uf 20V 10% TANT	1004813	7
1		C20	CAP 100uf 20V 10% TANT	1004815	8
3		C1, C5, C16	CAP 6.8uf 35V 10% TANT	1005306	9
					10
1		D7	DIODE, LIGHT EMITTING	1110324	11
1		R33	RES 150 1/4 W 5%	1300250	12
1		R2	RES 220 1/4 W 5%	1300271	13
1		R1	RES 330 1/4 W 5%	1300295	14
5		R4, R9, R11, R10, R61	RES 1K 1/4 W 5%	1300365	15
					16
43		R3, R5, R7, R8, R12, R13, R14 THRU R21, R24, R25, R26, R28 THRU R32, R34 THRU R39, R41 THRU R60	RES 4.7K 1/4 W 5%	1300447	16
1		R22	RES 10K 1/4 W 5%	1300479	17
1		R27	RES 15K 1/4 W 5%	1300496	18
1		R18	RES 270 1/4 W 5%	1301972	19
1		R23	RES 50K 3/4 W 10% 76 PR	1309143-13	20
					21
					22
					23
1		E4	IC 7404	1904080	24
2		E15, E22	IC 74197	1910035	25
2		E1, E14	IC 7408	1910155	26
2		E9, E10	IC 74123	1910430	27
5		(E2-E3), (E6-E7), (E11-E12), (E16-E17), (E19-E20)	IC 75452	1910445-01	28
2		E13, E23	IC 74199	1910842	29
1		E8	IC 7474	1905347	30
1		E18	IC 7405	1909930	31
3		S1, S2, S3	SWITCH, TOGGLE	1210209-00	32
3		S4, S5, S6	SWITCH, DIP OF 10	1211164-06	33
2			EYELET	9006732	34

* NOTE

IC TYPE	QTY	LOCATIONS
74199	12	24
7452	4	8
74123	8	10
IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. DESCRIPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

REVISIONS

REV	DATE	DESCRIPTION
1	12/5/73	INITIAL DESIGN
2	1/13/74	REVISED FOR MANUFACTURE
3	1/16/74	REVISED FOR MANUFACTURE
4	1/22/74	REVISED FOR MANUFACTURE

FIRST USED ON OPTION MODEL
TU16

ETCH BOARD REV D

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: SLAVE TEST (TFGI)
FUNCTION GENERATOR

REVISIONS: 11

SCALE: 1:1

SHEET 1 OF 3

SEMICONDUCTOR CONVERSION CHART

DEC NO. EIA NO. DEC NO. EIA NO.

REVISIONS: 11

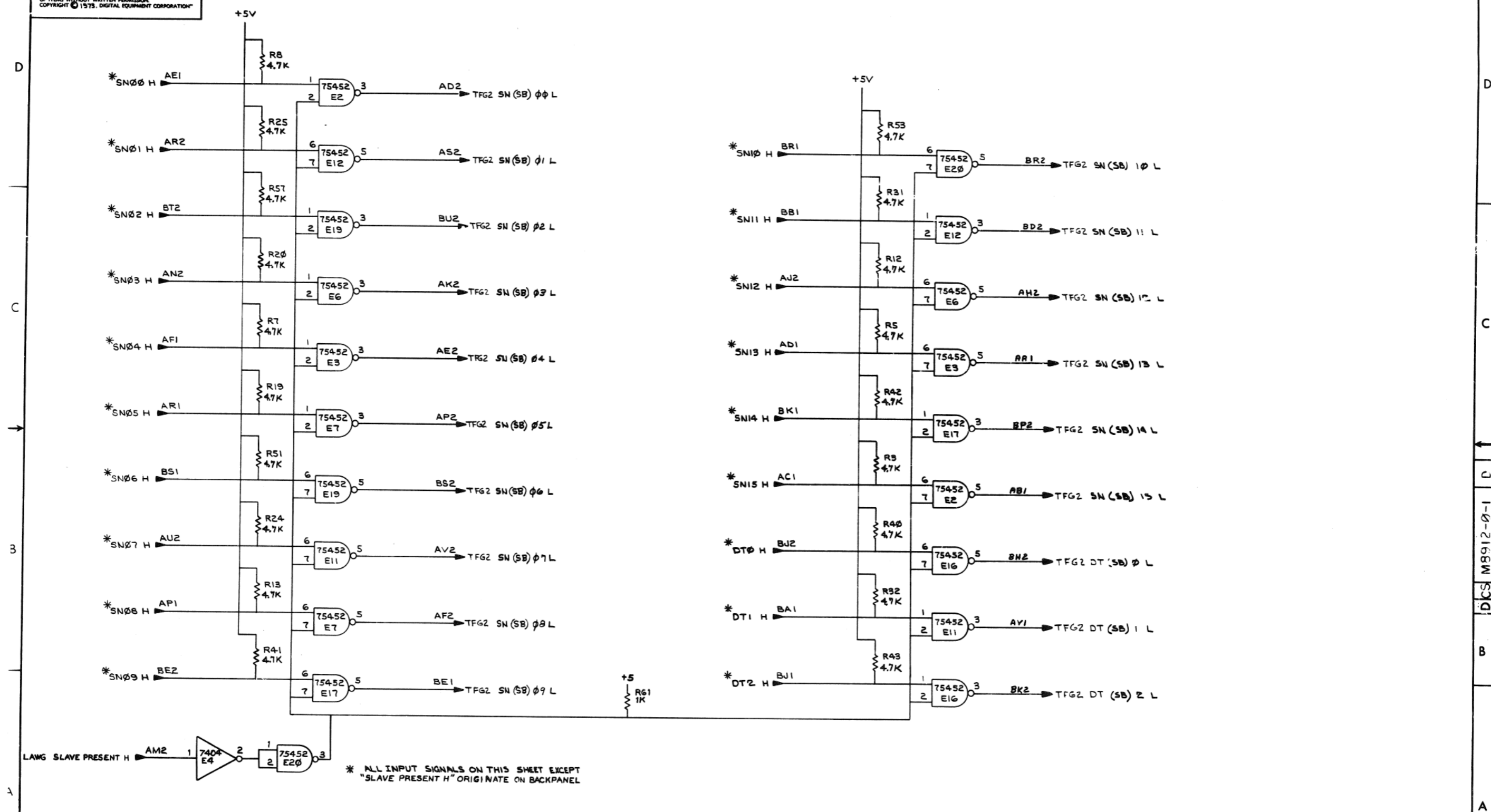
SCALE: 1:1

SHEET 1 OF 3

SEMICONDUCTOR CONVERSION CHART

DEC NO. EIA NO. DEC NO. EIA NO.

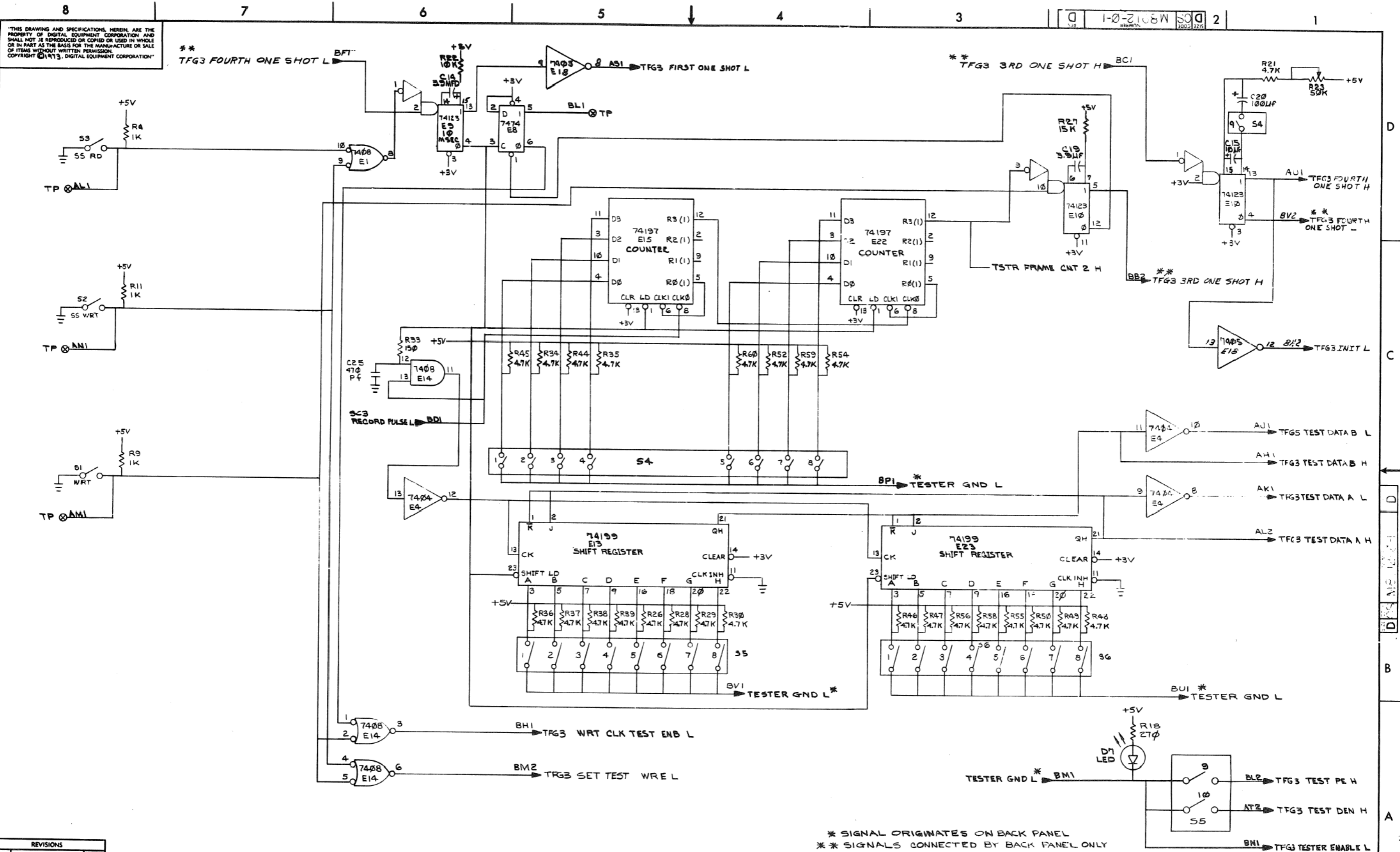
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* ALL INPUT SIGNALS ON THIS SHEET EXCEPT "SLAVE PRESENT H" ORIGINATE ON BACKPANEL

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SLAVE TEST (TFG2) FUNCTION GENERATOR	SIZE CODE	D CS	NUMBER	M8912-0-1	REV.	D
SCALE	+	SHEET	2	OF	3	DIST.	



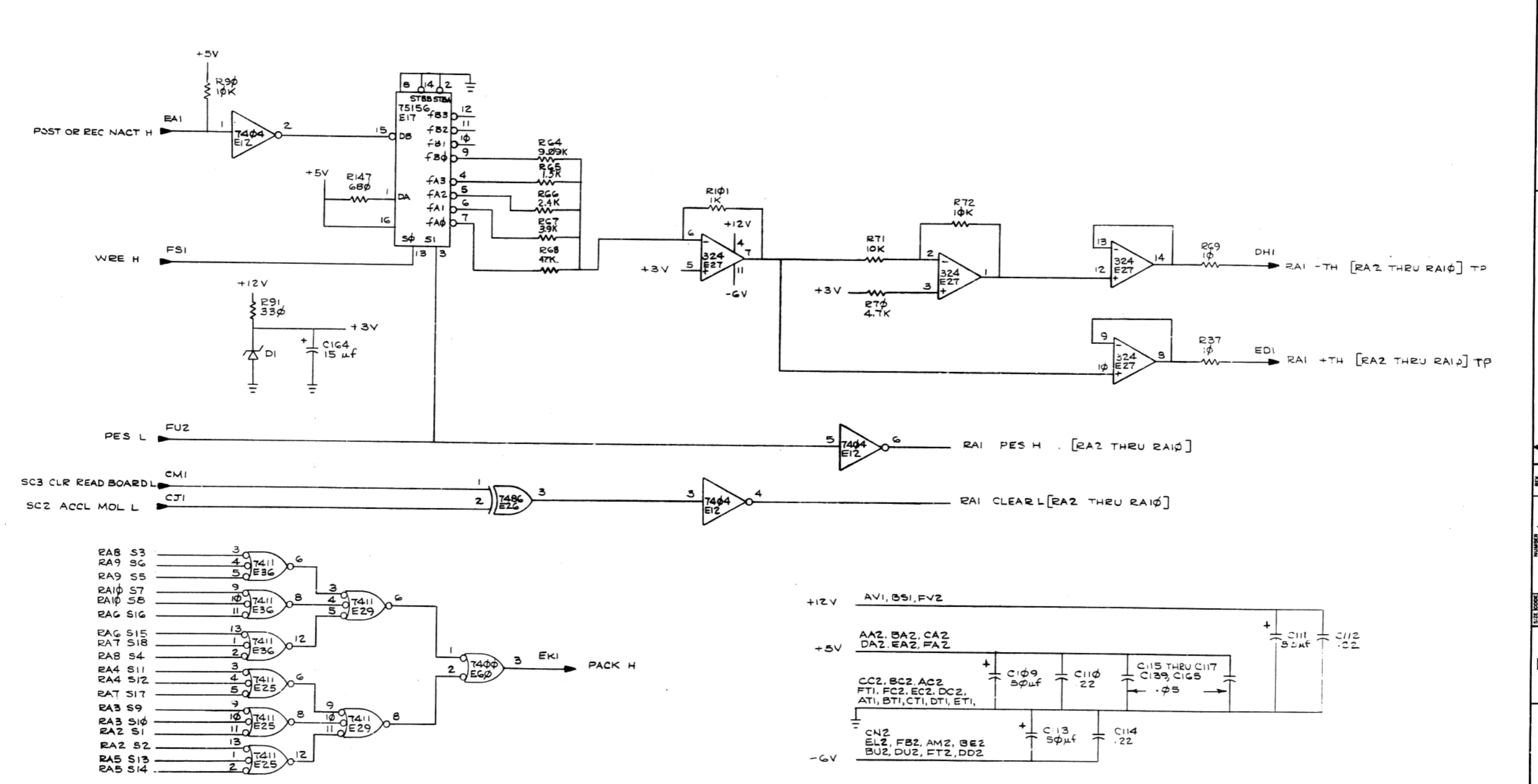
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SLAVE TEST (TFG3) FUNCTION GENERATOR
 SCALE 1/1 SHEET 3 OF 3
 SIZE CODE DCS NUMBER M8912-0-1 REV. D

* SIGNAL ORIGINATES ON BACK PANEL
 ** SIGNALS CONNECTED BY BACK PANEL ONLY

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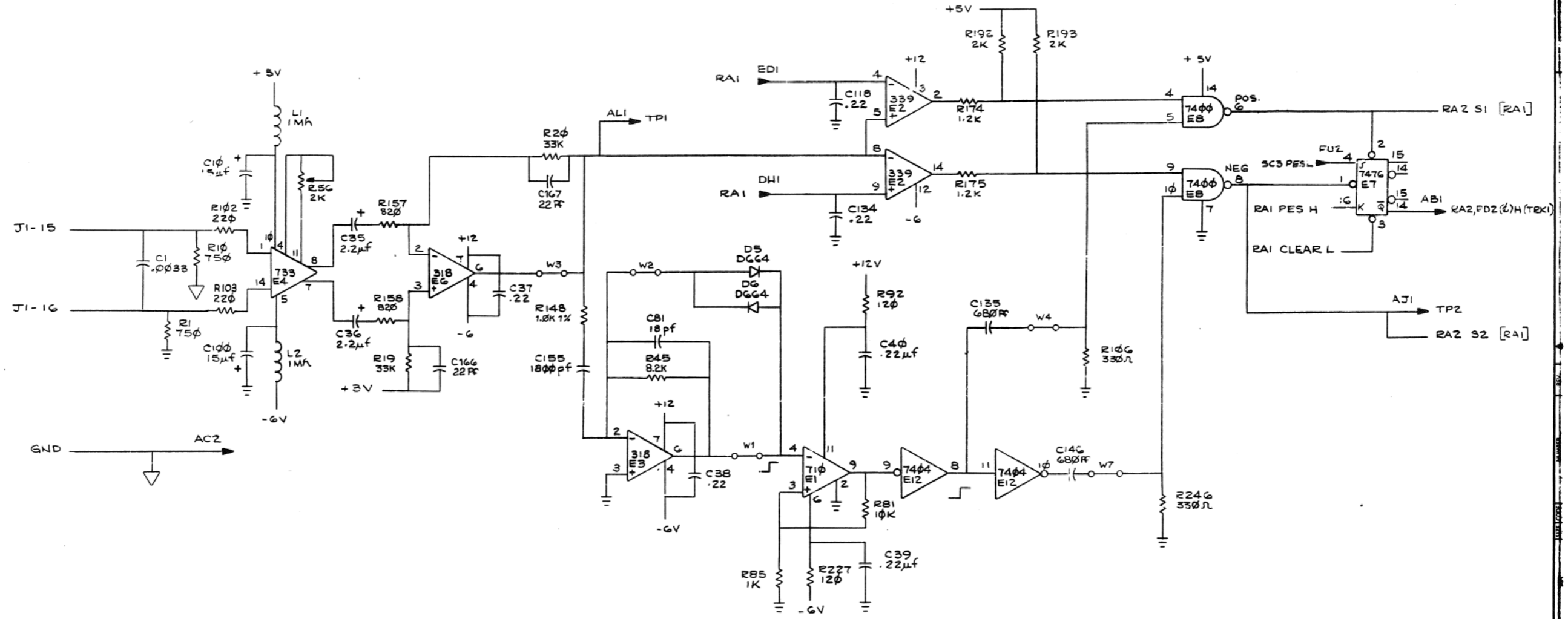
NOTE:
1. ALL RESISTORS ARE 1/4W ±5%
UNLESS OTHERWISE SPECIFIED



REV.	CHG	DATE	BY	CHK
1				
2				
3				
4				
5				
6				
7				
8				

DRN	6/17/76	FIRST USED ON	TU16
CHK'D	6/17/76	TITLE	9TK TU16 READ AMP (RA)
ENG.	11/2/76	SCALE	1/1
PROJ. ENG.	11/2/76	SHEET	1 OF 10
PROD.	11/2/76	SIZE	D
NEXT HIGHER ASSY.		CODE	CS
		NUMBER	G066-0-1
		REV.	E
		DIST.	

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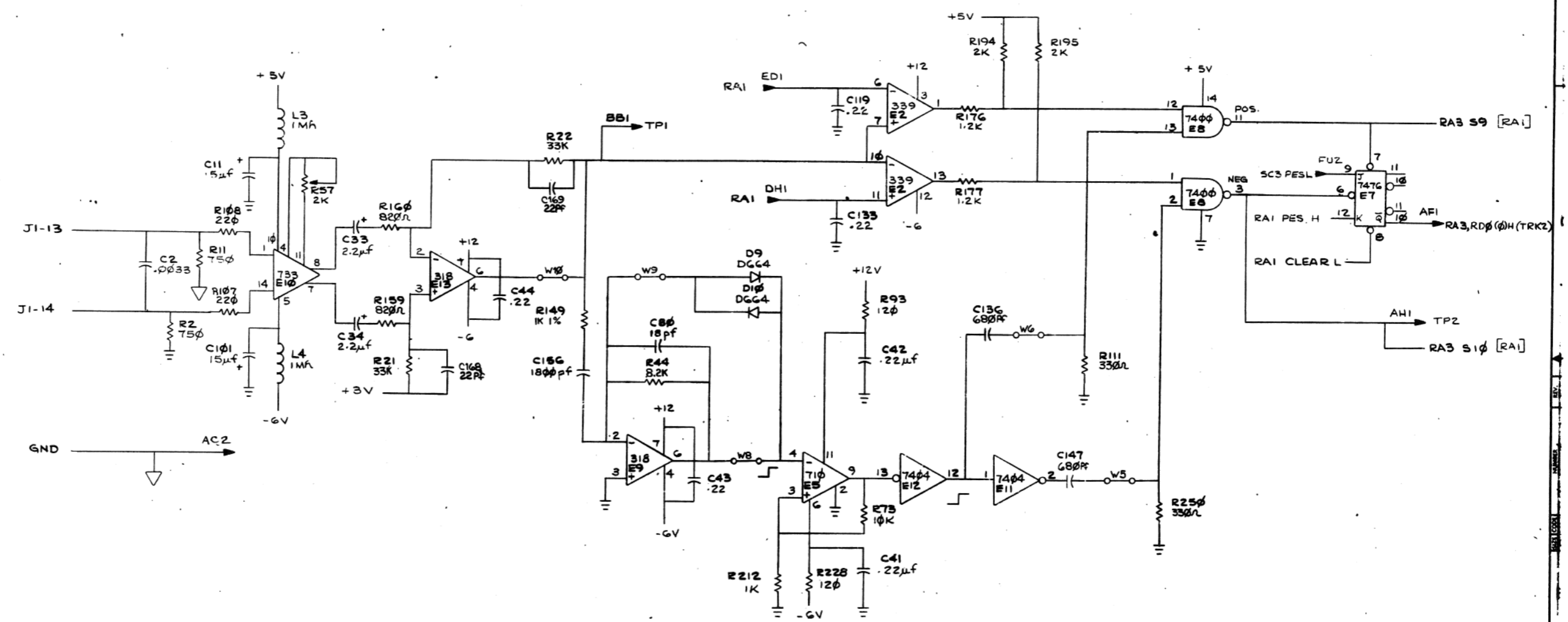


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TUI6 READ AMP (RA2)	SIZE CODE	DCS	NUMBER	G066-0-1	REV.	E
SCALE		SHEET	2	OF	10	DIST.	

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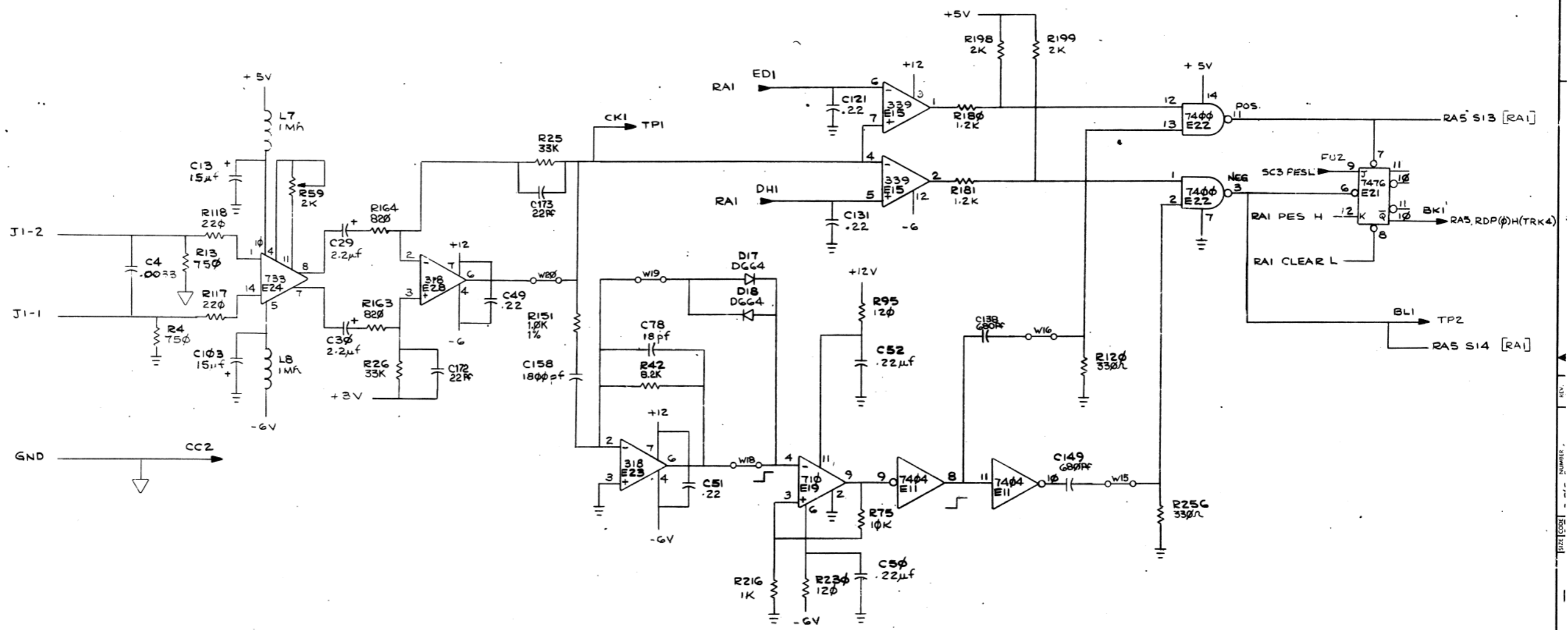
3 1-0-9909 SCD 2



REV.	
DATE	

TITLE	97K TU16 READ AMP (RA3)	SIZE CODE	D CS G066-0-1	NUMBER		REV.	E
SCALE		SHEET	3	OF	10	DIST.	

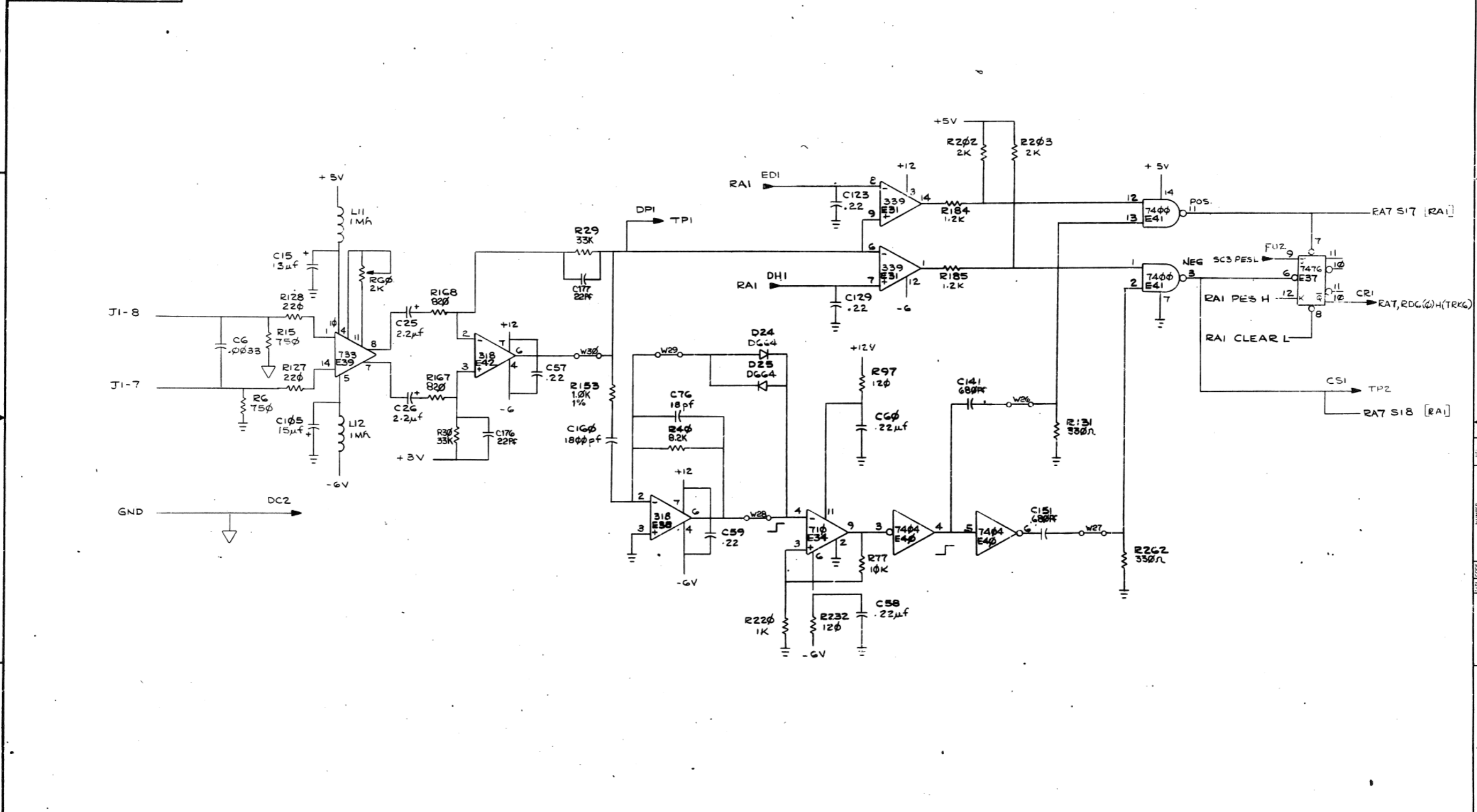
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RA5)	SIZE CODE	D CS	NUMBER	G066-0-1	REV.	E
SCALE	1	SHEET	5	OF	10	DIST.	

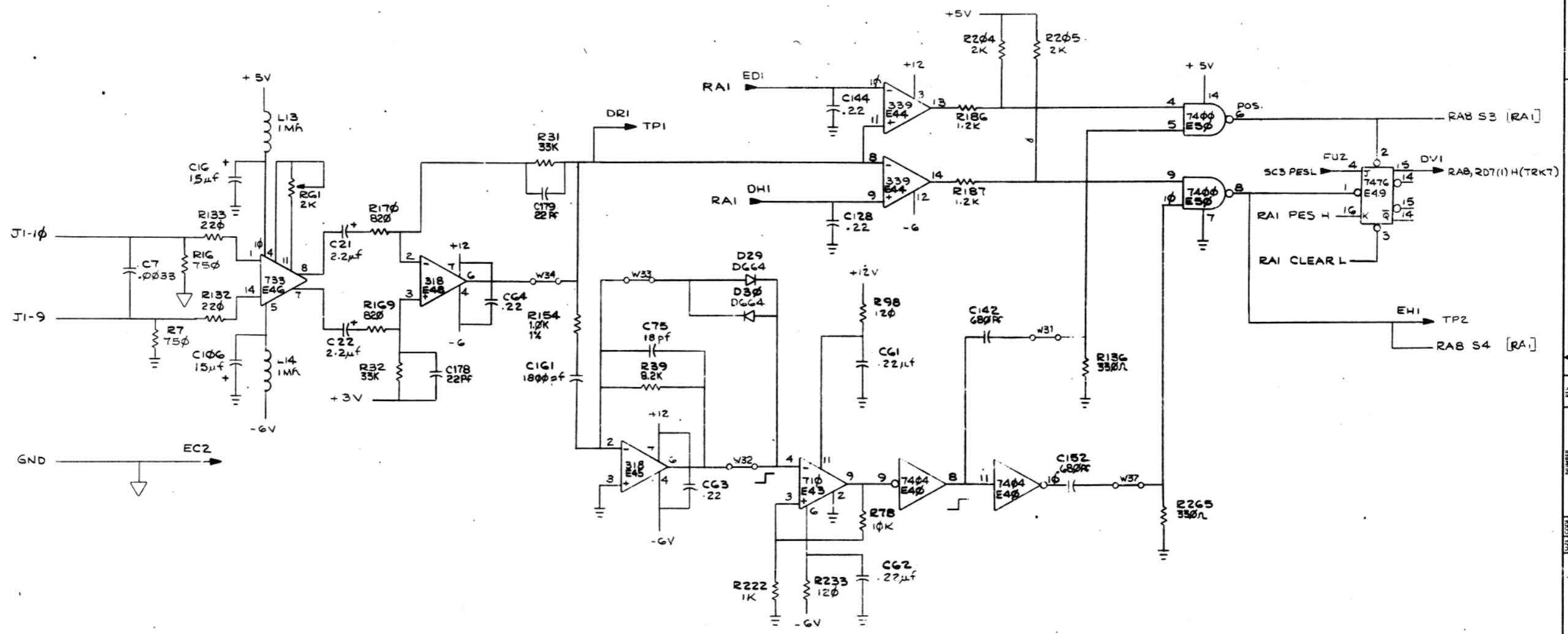
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 9TK TU16 READ AMP (RA7)		SIZE CODE D	NUMBER CS 666-0-1	REV. E
SCALE	SHEET 7 OF 10	DIST.		

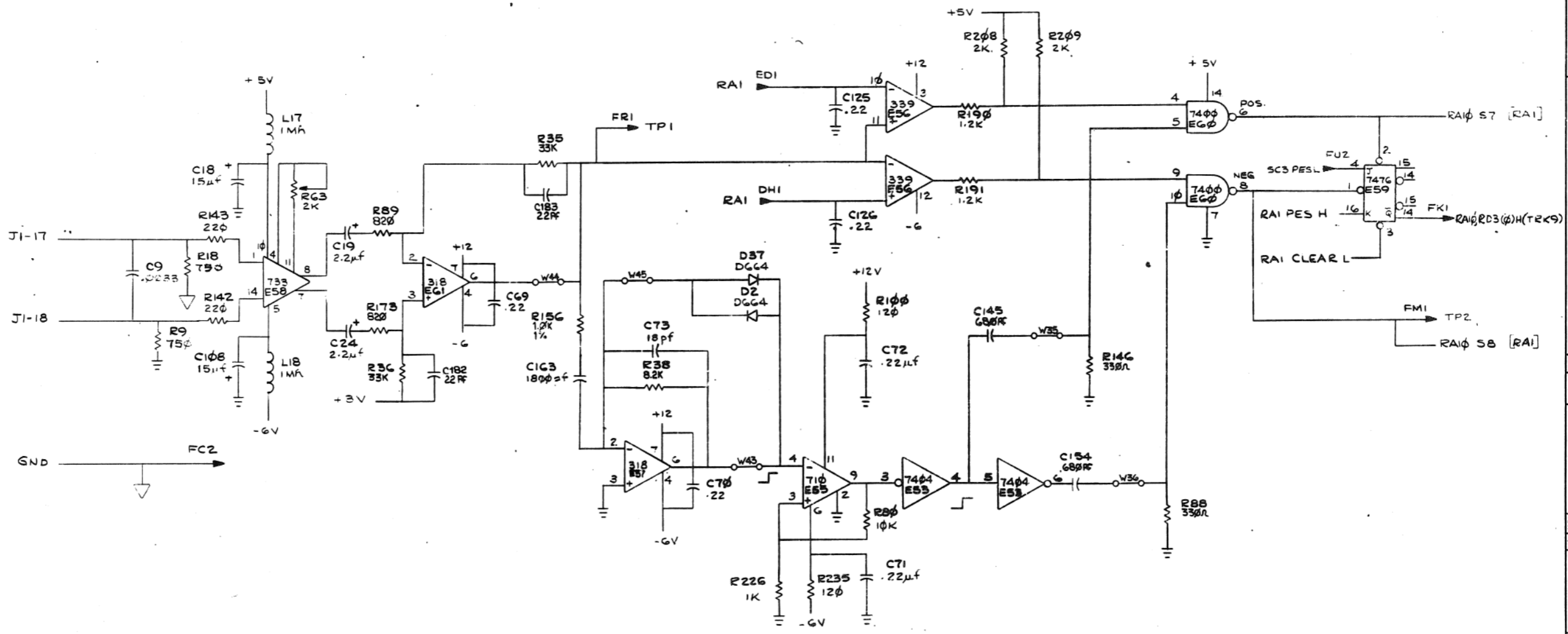
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RAB)	SIZE CODE	D	CS	NUMBER	66-0-1	REV.	E
SCALE		SHEET	8	OF	10	DIST.		

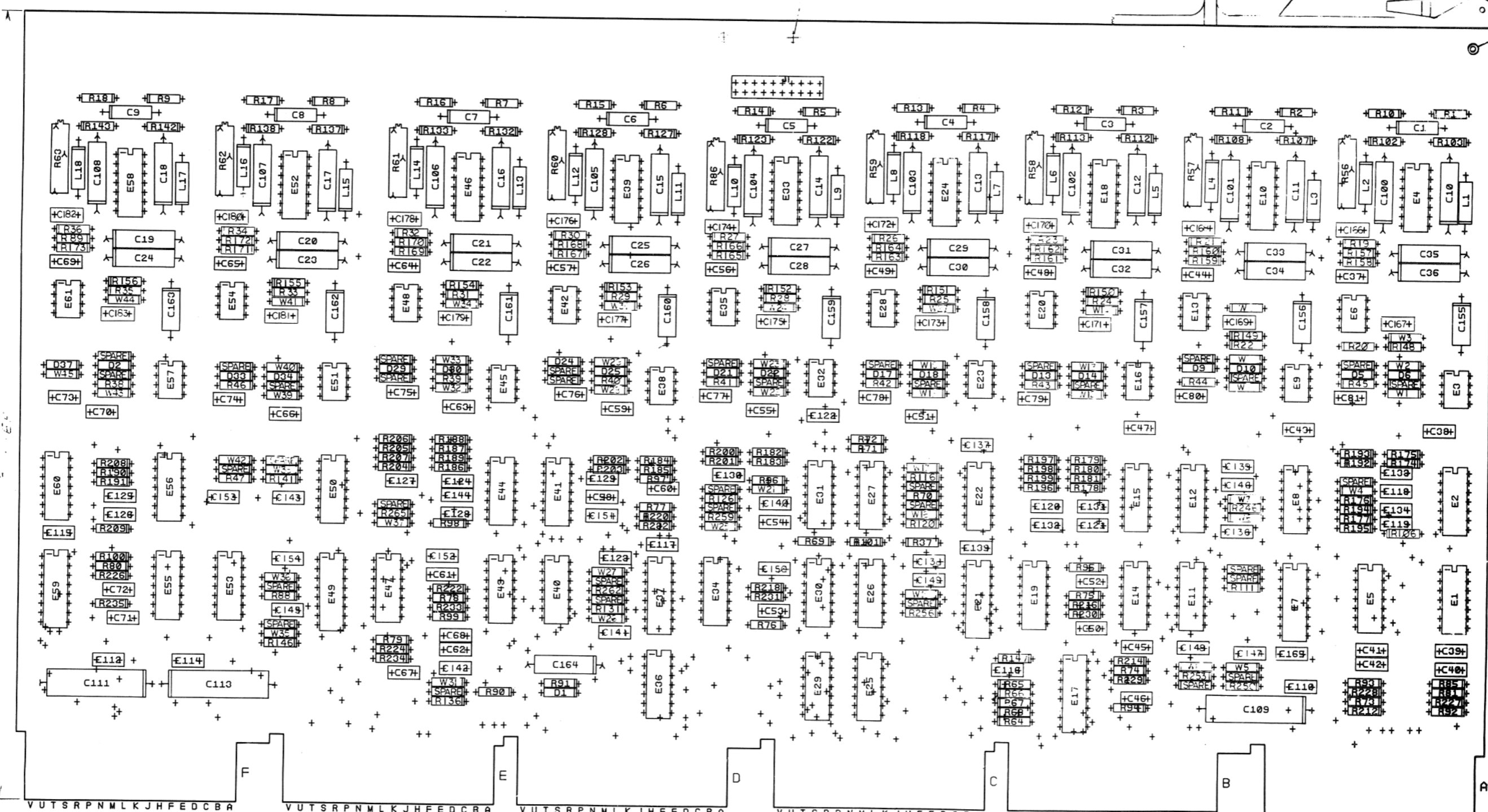
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RA10)	SIZE CODE	D CS	NUMBER	G066-0-1	REV.	E
SCALE		SHEET	10	OF	10	DIST.	

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NOTES: 1. DO NOT INSTALL 2 EYELETS IN HANDLE Holes INDICATED.
REWORK INSTRUCTIONS ECO# 1
COMPONENT DELETE SIDE 1
1-2. R66 (P/N 1300439)
COMPONENT ADDS SIDE 1:
1-3. R66 (P/N 1303177) (CONT. ON SHEET 40F4)

CHANGE NO	REV	DATE	BY	CHK'D
001	001	11/17/77	H.L.RAB	H.L.RAB
002	001	11/17/77	H.L.RAB	H.L.RAB
003	001	11/17/77	H.L.RAB	H.L.RAB
004	001	11/17/77	H.L.RAB	H.L.RAB
005	001	11/17/77	H.L.RAB	H.L.RAB
006	001	11/17/77	H.L.RAB	H.L.RAB
007	001	11/17/77	H.L.RAB	H.L.RAB
008	001	11/17/77	H.L.RAB	H.L.RAB
009	001	11/17/77	H.L.RAB	H.L.RAB
010	001	11/17/77	H.L.RAB	H.L.RAB

ETCH REV.	DATE	BY	CHK'D
0	11/17/77	H.L.RAB	H.L.RAB

SIGNATURES	DATE
DRN. <i>Stu. Ruff</i>	11/17/77
CHK'D. <i>J. B...</i>	11/17/77
ENG. <i>H.L.RAB</i>	11/17/77
PROD. <i>H.L.RAB</i>	11/17/77
SCALE 2/1	
SHT. 1 OF 4	
NEXT HIGHER ASSY. B-10-6066-0	

digital	
TITLE 9TK TUG READ AMP	
SIZE CODE 0 UA	NUMBER 6066-0
1 MS# 81045	

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY DAVID BEAUREGARD	CHECKED <i>J. Bosman</i>	SECTION
DATE 15 Oct 76	DATE 18 Oct '76	1
ENG <i>H. Finckler</i>	PROD <i>Gordon P. Willard</i>	ISSUED SECTION
DATE 11.23.76	DATE 23 NOV '76	1

QUANTITY / VARIATION

NOTES:

USED ON OPTION/MODEL
TU16J

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF	QTY	UNIT	VAR	REF DESIGNATION
	D-CS-G066-0-1		CIRCUIT SCHEMATIC	REF				
	B-DD-G066-0		DWG DIRECTORY	REF				
	D-UA-G066-0-0		UNIT ASSEMBLY	REF				
	D-MD-5012235-0-0	5012235	ETCHED CIRCUIT BOARD		1			
1		19-13293-00	IC 74156		1			E17
2		19-10537-00	IC 74511		3			E25, E29, E36
3		19-12107-00	IC LM324		1			E27
4		19-10644-00	IC 733		9			E4, E10, E18, E24, E33, E39, E46, E52, E58
5		19-10735-02	IC 318		18			E3, E6, E9, E13, E16, E20, E28, E23, E32, E38, E35, E42, E45, E48, E51, E54, E57, E61
6		19-05620-01	IC 710		9			E1, E5, E14, E19, E30, E34, E43, E47, E55
7		19-12108-00	IC LM339		5			E2, E15, E31, E44, E56
8		19-05575-00	IC DEC7400		5			E8, E22, E41, E50, E60
9		19-05585-00	IC 7476		5			E7, E21, E37, E49, E59
10		19-09686-00	IC 7404		4			E12, E11, E40, E53
11		19-10011-00	IC DEC7486		1			E26
12		11-13295-00	DIODE 3.0V ZENER (11-4372A)		1			D1
13		11-00114-00	DIODE D664		18			D2, D5, D6, D9, D10, D13, D14, D17, D18, D21, D22, D24, D25, D29, D30, D33, D34, D37
14		16-02723-00	CHOKE 1 MH		18			L1 thru L18

E.C.O. NO.
0001
0002
0003

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	9 TK TU16 READ AMP	D-UA-G066-0-0	B	PL	G066-0-0	E
EN-01140A-16-R276(325) DRB 125		SHEET 1 OF 4	INSERTION PARTS LIST DATA BASE REV 6			

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY D. BEAUREGARD	CHECKED <i>D. Boemen</i>	SECTION	
DATE <i>15 Oct 76</i>	DATE <i>18 Oct 76</i>		
ENG <i>H. F. Finsen</i>	PROD <i> Gordon R. Sillard</i>	ISSUED SECTION	
DATE <i>11. 23. 76</i>	DATE <i>23 NOV '76</i>		

QUANTITY / VARIATION

NOTES:

*USED ON OPTION/MODEL
TU16J*

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	19	20	21	22	23	24	25	26	27	28	29	30	31	REF DESIGNATION
15		10-04812-00	CAP 15 MF 20V, 10% TANT	19													C164, C10 thru C18, C100 thru 108
16		10-02431-00	CAP 2.2 UF 35V, 10% TANT	18													C19 thru C36
17		10-05820-00	CAP. 22PF 100V 5%	18													C166-C183 (IN PARALLEL WITH R19 thru R29, R30, R31 thru R36)
18		10-10274-01	CAP .22 UF 50V CER	67													C37 thru C72, C118 thru C134, C144, C110, C112, C114
19		10-00026-00	CAP 680PF 100V 5%	18													C135 thru C138, C140 thru C143, C145 thru C154
20		10-02608-00	CAP 18 PF 100V 5% DM	9													C73 thru C81
21		10-05116-00	CAP 3300 PF 200V 10%	9													C1 thru C9
22		10-13292-00	CAP 1800 PF 100V 10% MYLAR	9													C155 thru C163
23		10-01796-00	CAP 50 UF 25V AL EL	3													C11, C109, C113
24		10-01774-00	CAP .05 UF 25V DISC	5													C115 thru C117, C139, C165
25		13-01477-00	RES 82 1/4W 5%	18													R40 thru R55, R68 thru R94, R95, R96, R97, R254, R257, R260, R263, R266
26		13-00247-00	RES 120 1/4W 5%	18													R92 thru 100, R227 thru R235
27		13-00271-00	RES 220 1/4W 5%	18													R102, R107, R108, R112, R113, R117, R118, R122, R123, R127, R128, R132, R133, R137, R138, R142, R143
28		13-01424-00	RES 680 1/4W 5%	1													R147
29		13-00365-00	RES 1K 1/4W 5%	10													R85, R101, R212, R214, R216, R218, R220, R222, R224, R226
30		13-01320-00	RES 1.2K 1/4W 5%	18													R174 thru R191
31		13-01401-00	RES 750 1/4W 5%	18													R1 thru R18

E.C.O. NO.

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EN-01140A-16-R276(325) DRB 125		SHEET 2 OF 4		INSERTION PARTS LIST DATA BASE REV 5		

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

USED ON OPTION/MODEL
TU16 J

MADE BY DAVID BEAUREGARD	CHECKED P. Bossman	SECTION 1
DATE 15 Oct 76	DATE 18 Oct 76	
ENG H. Funderisen	PROD Gordon R. Willard	ISSUED SECTION 1
DATE 11.22.76	DATE 23 NOV '76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	REF DESIGNATION
32		13-02388-00	RES 2K 1/4W 5%	18	R192 thru R209
33		13-03177-00	RES 2.4K 1/4W 5%	1	R66
34		13-00439-00	RES 3.3K 1/4W 5%	18	R157 thru R173, R80
35		13-13349-00	RES 33K 1/4 10%	18	R19 thru R29, R30, R31 thru R36
36		13-00447-00	RES 4.7K 1/4W 5%	1	R70
37		13-00479-00	RES 10K 1/4W 5%	12	R71 thru R81, R90
38		13-01775-00	RES 820 5%	18	R89, R157 thru R173
39		13-01317-00	RES 10 1/4W 5%	2	R69, R37
40		13-09143-08	RES 2K POT	9	R56 thru R63, R86
41		13-03179-00	RES 2K 1/4W 5%	9	R38 thru R46
42		12-13335-00	CONNECTOR, 20 PIN	1	J1
43		13-00295-00	RES 330 1/4W 5%	19	R47, R88, R91, R106, R111, R116, R120, R126, R131, R136, R141, R146, R246, R250, R253, R256, R259, R262, R265
44		13-00391-00	RES 1.5K 1/4W 5%	1	R65
45		13-00444-00	RES 3.9K 1/4W 5%	1	R67
46		13-02177-00	RES 47K 1/4W 5%	1	R68
47		90-06732-00	EYELET	10	
48		12-10711-05	HANDLE, HEX	1	
49		9009185	JUMPER WIRE	45	W1 thru W45

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			SHEET 3 OF 4	INSERTION PARTS LIST DATA BASE # 8			

DIGITAL EQUIPMENT CORPORATION PARTS LIST

MADE BY D. BEAUREGARD DATE 15 OCT 76	CHECKED P. BOSSMAN DATE 18 OCT 76	SECTION 1
ENG H. FINDEISEN DATE 11-23-76	PROD GORDON R. DILLARD DATE 23 NOV 76	ISSUED SECTION 1

QUANTITY / VARIATION											

NOTES:
 USED ON OPTION/MODEL TU16J

REF DESIGNATION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION								
50		13-02748-00	RES 1.0K 1/8W 1%	9							
51		13-05430-00	RES 9.1K 1/4W	1							

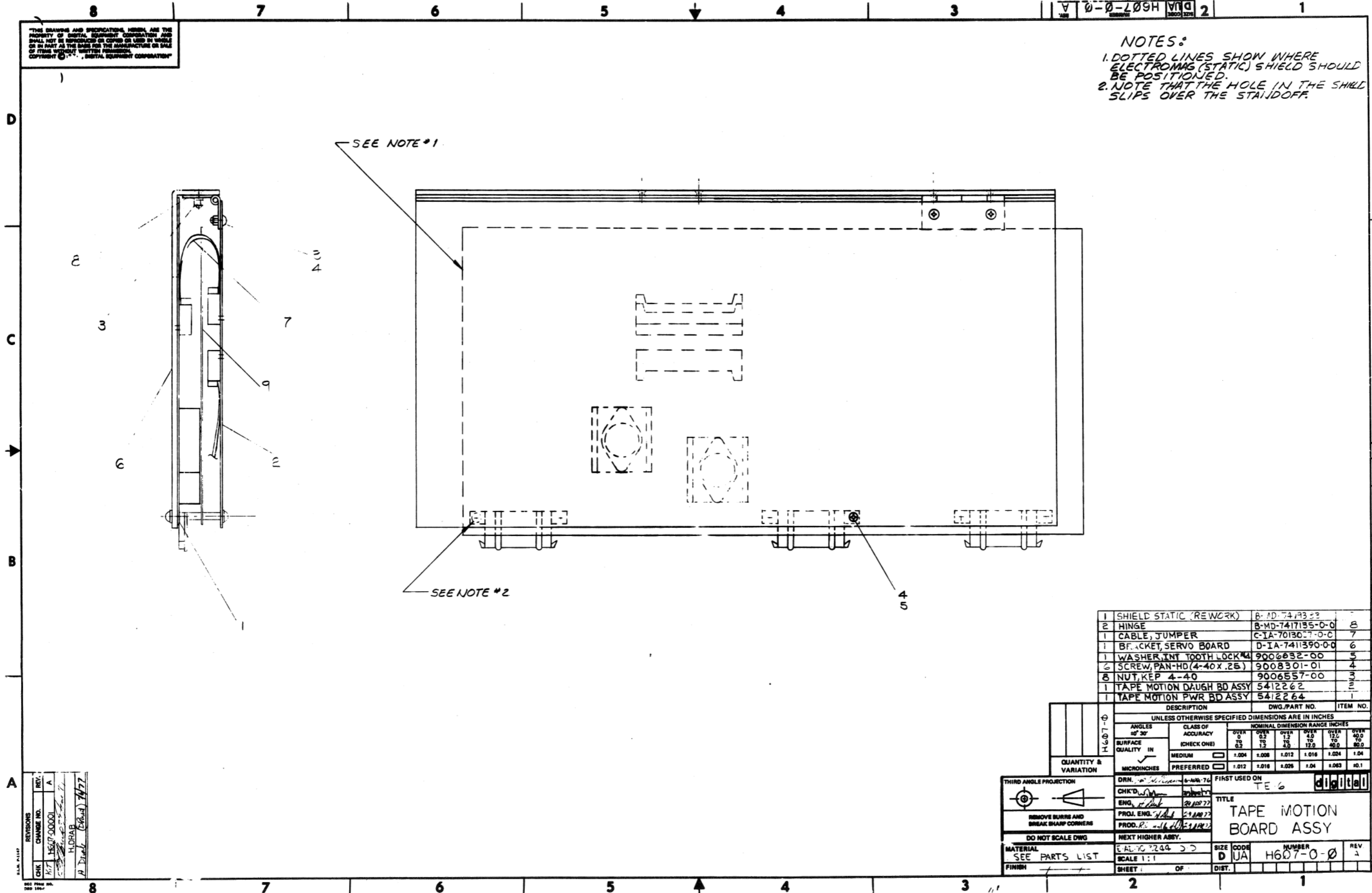
R148 thru R156
R64

E.C.O. NO.											
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			SHEET 4 OF 4	INSERTION PARTS LIST DATA BASE REV B		

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NOTES:
 1. DOTTED LINES SHOW WHERE ELECTROMAG (STATIC) SHIELD SHOULD BE POSITIONED.
 2. NOTE THAT THE HOLE IN THE SHIELD SLIPS OVER THE STAIIDOFF.



1	SHIELD STATIC (REWORK)	B-MD-74193-00	8
2	HINGE	B-MD-741735-0-0	8
1	CABLE, JUMPER	C-IA-70130-7-0-0	7
1	BUCKET, SERVO BOARD	D-IA-7411390-0-0	6
1	WASHER, INT TOOTH LOCK	9006832-00	5
6	SCREW, PAN-HD (4-40 X .25)	9008301-01	4
8	NUT, KEP 4-40	9006557-00	3
1	TAPE MOTION DAUGH BD ASSY	5412262	2
1	TAPE MOTION PWR BD ASSY	5412264	1

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES					
45° 30'	(CHECK ONE)	OVER 0 TO 0.25	OVER 0.25 TO 0.40	OVER 0.40 TO 0.60	OVER 0.60 TO 1.00	OVER 1.00 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY	IN	1.004	1.008	1.012	1.016	1.024	1.04
MICROINCHES	PREFERRED	1.012	1.016	1.026	1.04	1.063	1.01

THIRD ANGLE PROJECTION	DRN. 6-MAR-74	FIRST USED ON	TE 6
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. [Signature]	TITLE	TAPE MOTION BOARD ASSY
DO NOT SCALE DWG	ENG. [Signature]	SIZE	D
MATERIAL SEE PARTS LIST	PROJ. ENG. [Signature]	CODE	UA
FINISH	PROD. [Signature]	NUMBER	H607-0-0
	NEXT HIGHER ASSY.	REV	1
	E.A. 70 244 33		
	SCALE 1:1		
	SHEET 1 OF 1		

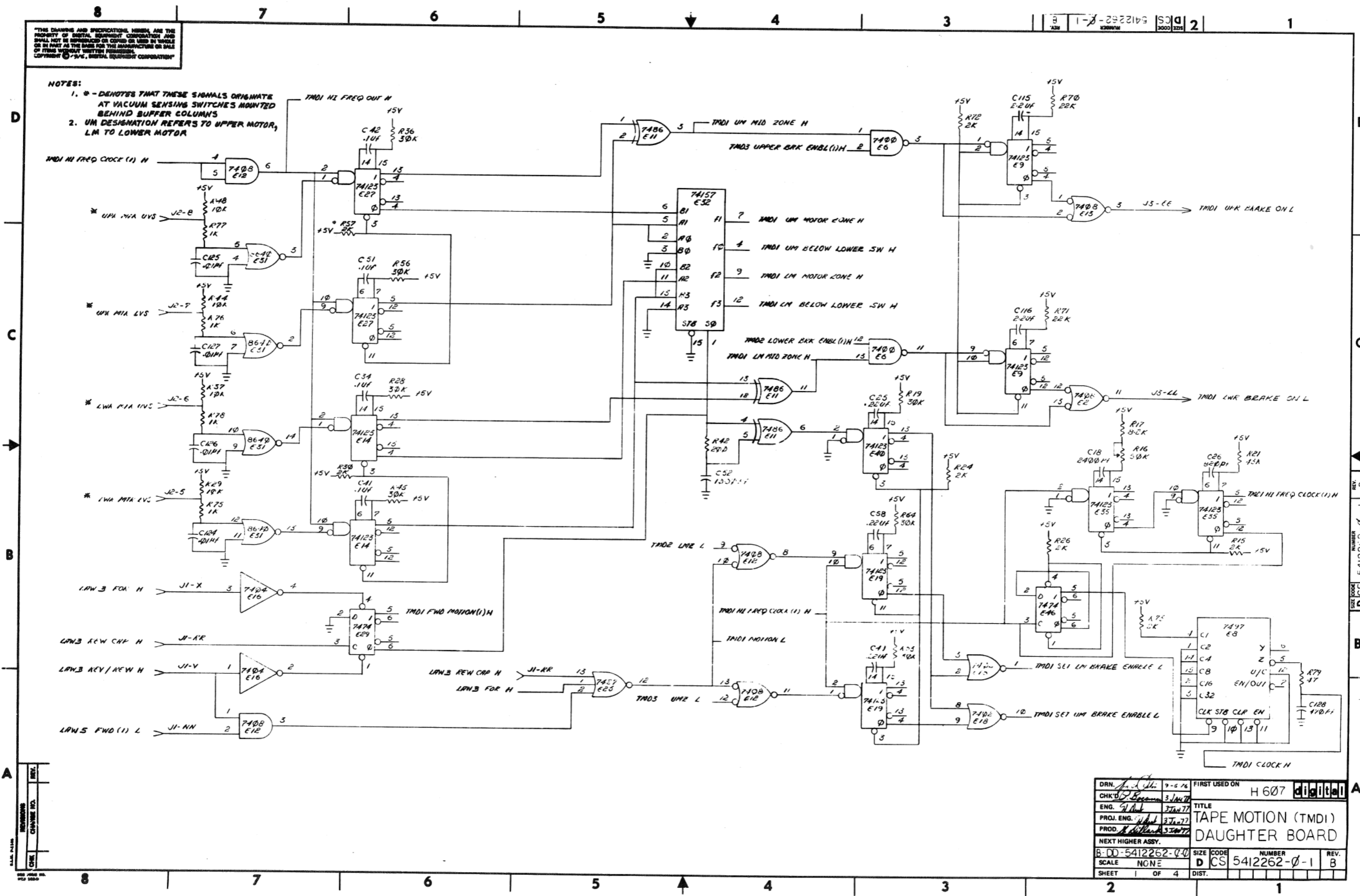
REVISIONS	REV.	A
CHANGE NO.	1547 00001	
DATE	10/15/74	
BY	HDRAB	
APPROVED	[Signature]	

SHEET NO. H607-0-0
 REV. 1
 DRAWN BY: HDRAB
 CHECKED BY: [Signature]
 DATE: 10/15/74

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NOTES:

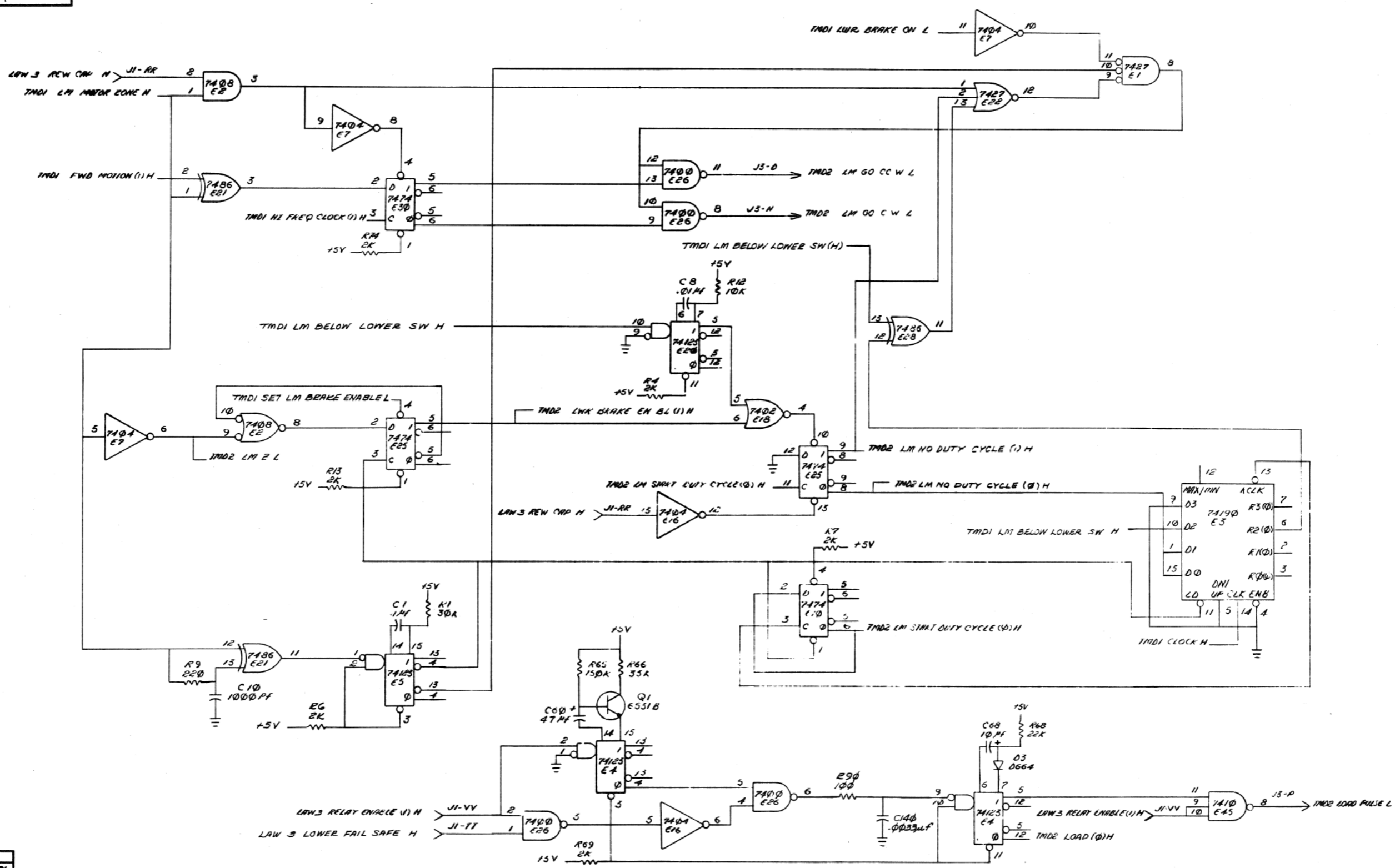
- * - DENOTES THAT THESE SIGNALS ORIGINATE AT VACUUM SENSING SWITCHES MOUNTED BEHIND BUFFER COLUMNS
- UM DESIGNATION REFERS TO UPPER MOTOR, LM TO LOWER MOTOR



DRN. <i>[Signature]</i>	FIRST USED ON	H 607
CHK'D. <i>[Signature]</i>	DATE	3/14/77
ENG. <i>[Signature]</i>	TITLE	TAPE MOTION (TMD1) DAUGHTER BOARD
PROJ. ENG. <i>[Signature]</i>	PROJ. NO.	374077
PROD. <i>[Signature]</i>	REV.	1
NEXT HIGHER ASSY.	SCALE	NONE
B: DD-5412262-00	SIZE CODE	D
SCALE	NUMBER	5412262-0-1
SHEET 1 OF 4	DIST.	

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REV. 1-1-72 5412262-0-1 DCS

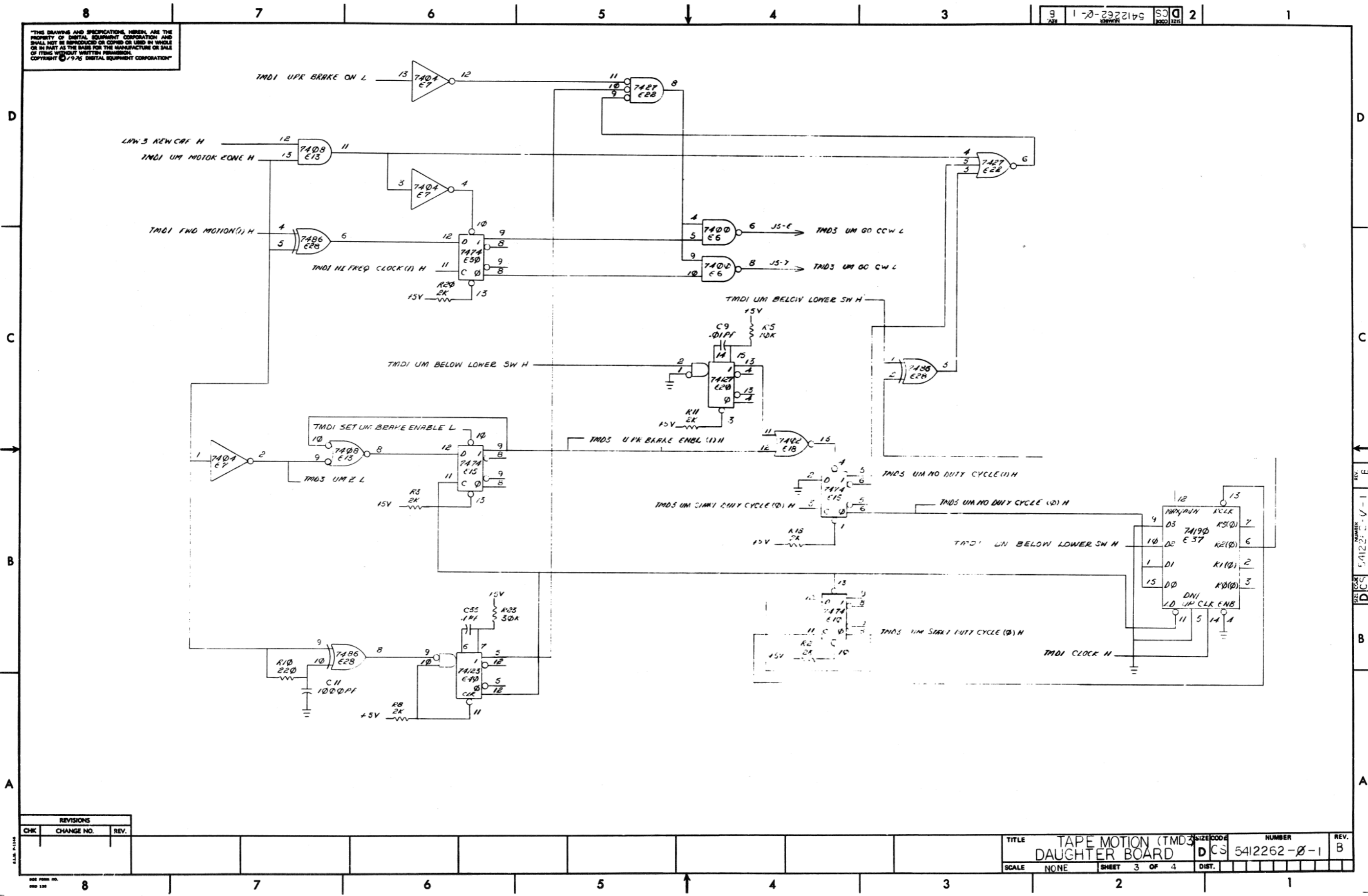


REVISIONS		
CHEK	CHANGE NO.	REV.

TITLE TAPE MOTION (TMD2) DAUGHTER BOARD
 SIZE CODE DCS NUMBER 5412262-0-1 REV. B
 SC_E NONE SHEET 2 OF 4 DIST.

REV. 1-1-72 5412262-0-1 DCS

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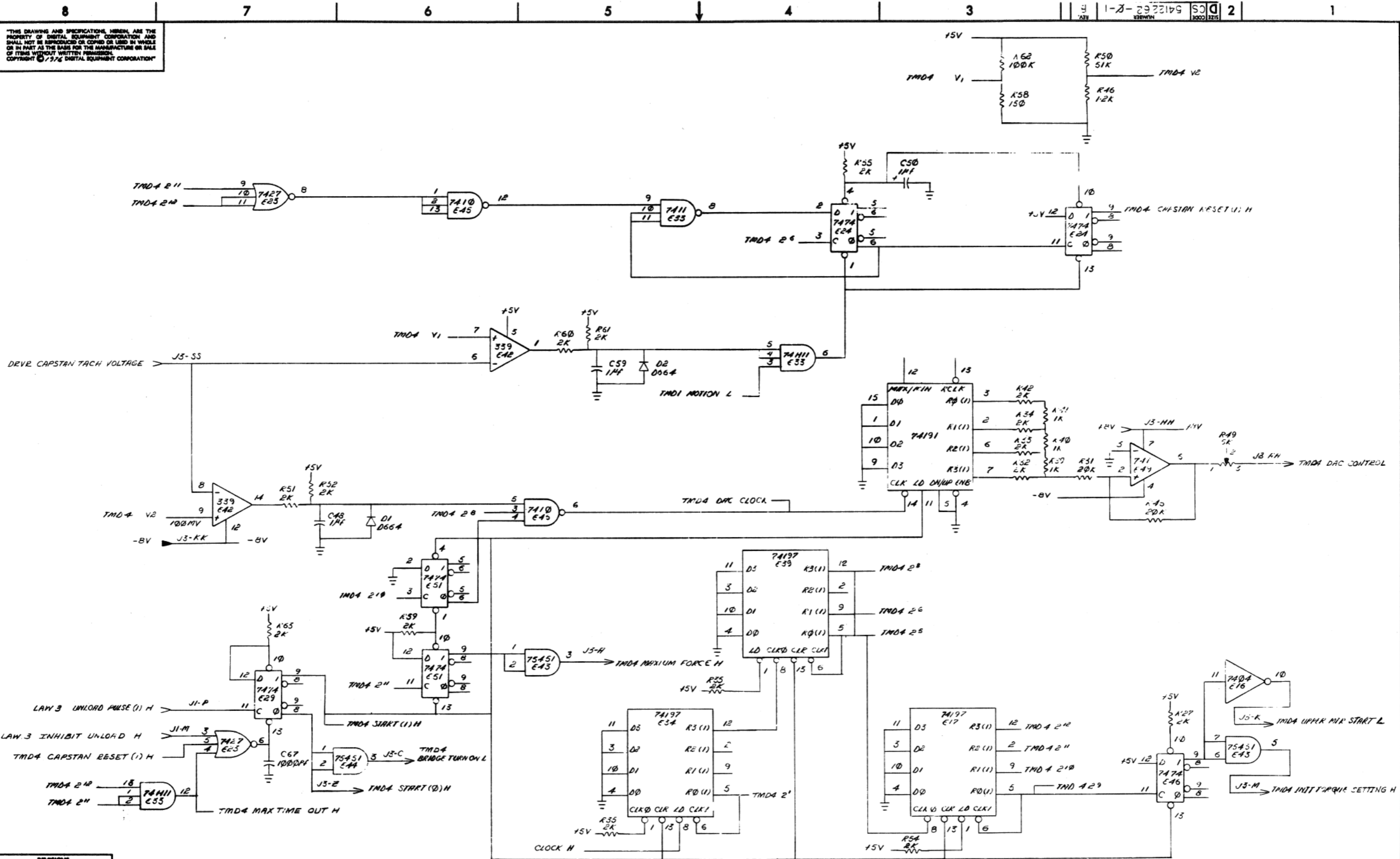


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TAPE MOTION (TMD) DAUGHTER BOARD	SIZE CODE	DCS	NUMBER	5412262-0-1	REV.	B
SCALE	NONE	SHEET	3 OF 4	DIST.			

REV. B 5412262-0-1 DCS

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TAPE MOTION (TMD4)	SIZE CODE	D CS	NUM. 5	REV.	B
SCALE	NONE	SHEET	4 OF 1	DIST.		

REV. 1 7 1976

COMPONENT SIDE VIEW

8 7 6 5 4 3 2 1

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15.69 REF

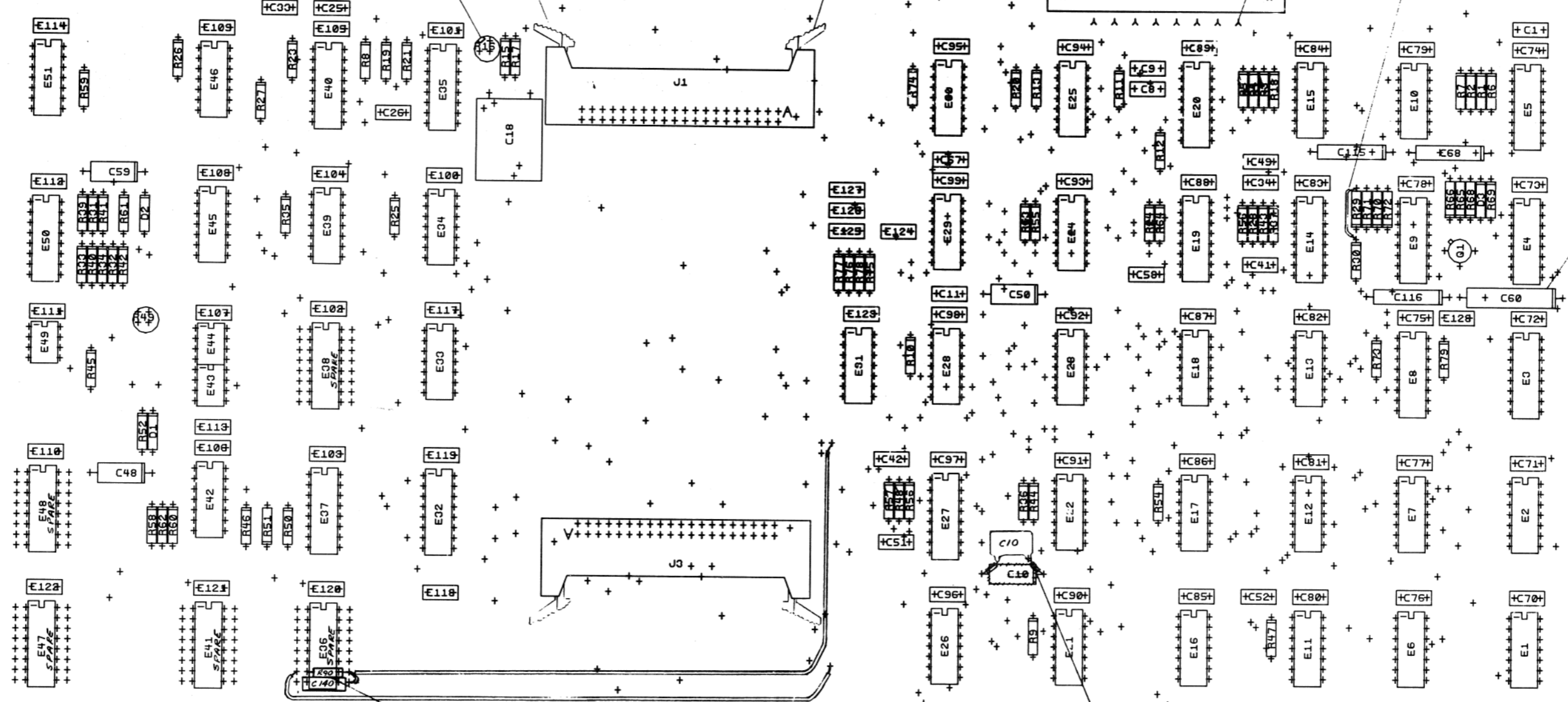
ORIENTA. DENT

36.59

57, SEE NOTE 2

SEE NOTE 3

R800 REF



NOTES:
 1. REWORK INSTRUCTIONS: REPLACE C10, WAS 104F, 20V - 15 10 00042-00, ADD: INSTALL SLEEVING, ITEM 56 ON LEADS OF C10 BEFORE ASSY. LAY C10 DOWN
 2. ADD REWORK WIRE, ITEM 57
 4. PLACES AS SHOWN
 3. REPLACE C60, WIRE: 204F, 50V 15:474F, 20V - 100+814-00.

- REWORK : 1. ADD R90, ITEM 19 - 100R, 13 00229-00
 2. ADD C140, ITEM 53 - .00334F, 10 11740-00

SEE NOTE 1

CHK	CHANGE NO	REV

ETCH REV.	
P.C. DESIGN DATA BASE REV.	

SIGNATURES	DATE	digital
DRN. P. CULLI	11/12/77	
CHK'D.	10/17/77	TITLETAPE MOTION DAUGHTER BOARD
ENG.	2/24/77	
PROJ. ENG.	7/24/77	SIZE CODE NUMBER REV d UA 5412262-0-0
PROD.	3/10/77	
SCALE		
SHT. OF		
NEXT HIGHER ASSY.	B-DD-5412262-0-0	

8 7 6 5 4 3 2 1 MS#81077

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

USED ON: OPTION/MODEL
H607

MADE BY R. Sullivan	CHECKED <i>Mitzy</i>	SECTION
DATE 10 Oct 76	DATE 11/15/76	1
ENG <i>H. Sub</i>	PROD <i>E. Dillard</i>	ISSUED SECTION
DATE 3 Jan 77	DATE 3 JAN 77	1

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF	QUANTITY	VARIATION	REF DESIGNATION
	D-UA-5411262-0-0		UNIT ASSY	REF			
	B-DD-5411262-0		DWG DIRECTORY	REF			
	D-CS-5411262-0-1		CIRCUIT SCHEMATIC	REF			
1	D-MD-5011261-0-0		ETCHED CIRCUIT BOARD		1		
2		10-01610-01	CAP .01 UF 100V DISC		58		C8,C9,C70 thru C114,C117 thru C122,C123, C124 thru C127
3		10-01776-00	CAP 1.0 UF 35V 10% TANT		3		C59,C48,C50
4		10-00042-00	CAP 1000 PF 100V 5% DM		4		C11,C67,C52 C10
5		10-10274-01	CAP .22 UF 50V CER		3		C25,C58,C49
6		10-00027-00	CAP 820 PF 100V 5% DM		1		C26
7		10-10978-36	CAP .1 UF 50V CER		6		C1, C33,C42,C51,C34,C41
8		10-04813-00	CAP 10 UF 20V 10% TANT		1		C68,
9		10-04814-00	CAP 47 UF 20V TANT		1		C60
10		10-02627-00	CAP 2.2 UF 20V 10% MYLAR		2		C115,C116
11		12-09941-03	LATCH, LEFT FOR ANG HEADER		2		
12		11-00114	DIODE D664		3		D1,D2,D3
13		12-09941-04	LATCH, RIGHT FOR ANG HEADER		2		
14		12-09941-02	CONN 40 PIN BERG		2		J1,J3
15		12-09340	CONN MATE-N-LOK 8 PIN		1		J2
16		12-09456-01	CONTACT (SOCKET TERMINAL)		8		

E.C.O. NO.

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	TAPE MOTION DAUGHTER BOARD	B-DD-5412262-0	B	PL	5412262-0-0	B
		SHEET 1 OF 4	INSERTION PARTS LIST DATA BASE REV 5			

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY R. Sullivan
 DATE 10 Oct 76
 ENG W. Dink
 DATE 3 Jan 77

CHECKED J. Metzger
 DATE 11/15/76
 PROD S. Dillard
 DATE 3 JAN 77

SECTION 1
 ISSUED SECTION 1

USED ON: OPTION/MODEL
 H607

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	VARIATION	REF DESIGNATION
17		13-04838	RES 43K 1/4W 5%	1		R21
18		13-02394	RES 30K 1/4W 5%	9		R1, R19, R23, R53, R64, R28, R36, R43, R56
19		13-00229-00	RES 100 1/4W 5%	1		R90
20		13-00250	RES 150 1/4W 5%	1		R58
21		13-02388	RES 2K 1/4W 5%	34		R2, R3, R6, R8, R15, R20, R24, R25, R26, R30, R32, R4, R7, R11, R13, R18, R27, R55, R59, R63, R72, R69, R73, R33, R34, R35, R42, R51, R52, R54, R57, R60, R61, R74
22		13-03179	RES 8.2K 1/4W 5%	1		R17
23		13-00479	RES 10K 1/4W 5%	6		R5, R12, R29, R37, R44, R48
24		13-02466	RES 100K 1/4W 5%	1		R62
25		13-04839	RES 51K 1/4W 5%	1		R50
26		13-02391	RES 20K 1/4W 5%	2		R31, R45
27		13-01320	RES 1.2 1/4W 5%	1		R46
28		13-00365	RES 1.0K 1/4W 5%	7		R39, R40, R41, R75, R76, R77, R78
29		13-00271	RES 220 1/4W 5%	3		R9, R10, R47
30		13-02396	RES 150K 1/4W 5%	1		R65
31		13-00510	RES 33K 1/4W 10%	1		R66
32		13-01808	RES 22K 1/4W 5%	3		R68, R70, R71
33		13-00202	RES 47 1/4W 5%	1		R79

ECO. NO.

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TITLE
 TAPE MOTION DAUGHTER BOARD

ASSY NO.
 B-DD-5412262-0-0

SIZE CODE NUMBER
 B PL 5412262-0-0

REV.
 B

SHEET 2 OF 4

INSERTION PARTS LIST DATA BASE REV B

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

USED ON: OPTION/MODEL
H607

MADE BY R. Sullivan	CHECKED <i>John Metzger</i>	SECTION 1
DATE 10 Oct 76	DATE 11/15/76	
ENG <i>H. Deak</i>	PROD <i>H. Deak</i>	ISSUED SECTION 1
DATE 3 Jan 77	DATE 3 JAN 77	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY	REF DESIGNATION
34		13-09150-06	POT 50K 1/2W 10% (ROUND)	1	R16
35		13-09150-04	POT 5K 1/2W 10% (ROUND)	1	R49
36		90-06693	WASHER 3/8 DIA.	2	
37		15-09338	TRANS DEC 6531B	1	Q1
38		19-12108	I.C LM339	1	E42
39		19-10436	I.C 74123	9	E40, E19, E27, E35, E14, E20, E9, E4, E5
40		19-05547	I.C. 7474	8	E51, E46, E29, E30, E24, E25, E15, E10
41		19-10155	I.C. 7408	3	E12, E13, E2
42		19-09686	I.C. 7404	2	E16, E7
43		19-10011	I.C. 7486	3	E28, E21, E11
44		19-05575	I.C. 7400	2	E26, E6
45		19-09004	I.C. 7402	1	E18
46		19-10878	I.C. 7427	3	E22, E23, E1
47		19-10096	I.C. 74191	1	E50
48		19-10655	I.C. 74157	1	E32
49		19-10298	I.C. 741	1	E49
50		19-11195	I.C. 7497	1	E8
51		19-10035	I.C. 74197	3	E39, E34, E17
52		19-05576	I.C. 7410	1	E45

E.C.O. NO. _____

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TAPE MOTION DAUGHTER BOARD	SHEET 3 OF 4	DATE 1/8		

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY D. Sullivan	CHECKED <i>John Metzger</i>	SECTION 1
DATE 10 OCT 76	DATE 11/25/76	
ENG <i>H. Smith</i>	PROD <i>H. Billard</i>	ISSUED SECTION 1
DATE 3 Jan 77	DATE 3 JAN 77	

USED ON: OPTION / MODEL
H607

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	VARIATION	REF DESIGNATION
53		19-10406	I.C. 75451	2		E43, E44
54		19-10095	I.C. 74190	2		E37, E3
55		19-09267	I.C. 74H11	1		E33
56		91 07252-02	SLEEVING	A/R		
57		91 05740-55	WIRE, #30 AWG, GRN	A/R		
58		10 11740-01	CAP. .0033 UF, 50V, 10% CER	1		C140
59		90-06745	EYELET	2		
60		19-11469	I.C. 8640	1		E31
61		10-00024-00	CAP 470 PF 100V 5% DM	1		C128
62		10-01636-00	CAP 2400 PF 100V 5% DM	1		C18

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TITLE
TAPE MOTION DUGHTER BOARD

ASSY NO.
B-DD-5412262-0
SHEET 4 OF 4

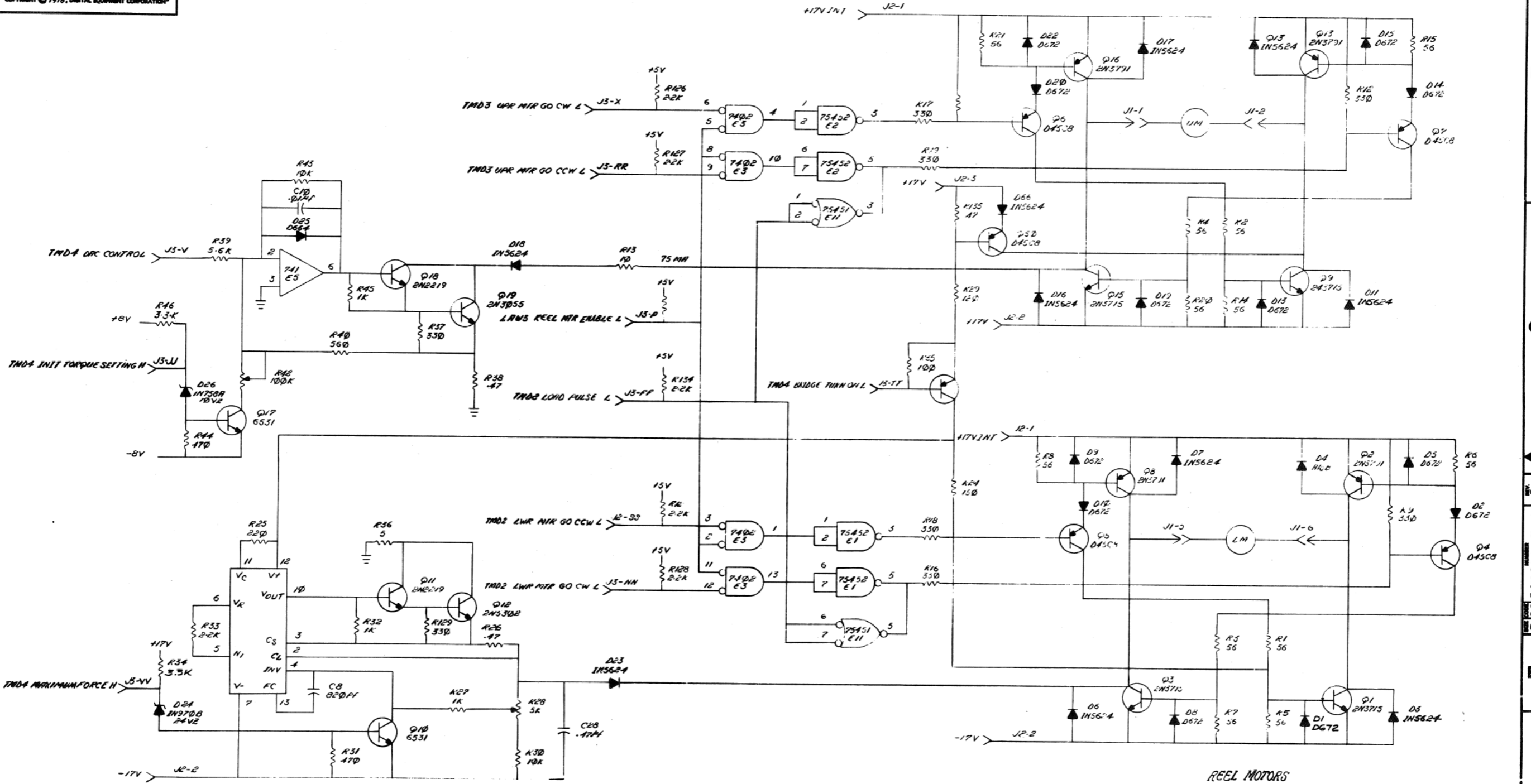
SIZE CODE
B PL
INSERTION PA

NUMBER
5412262-0-0
DATA BASE REV B

REV
B

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CS 5412264-0-1

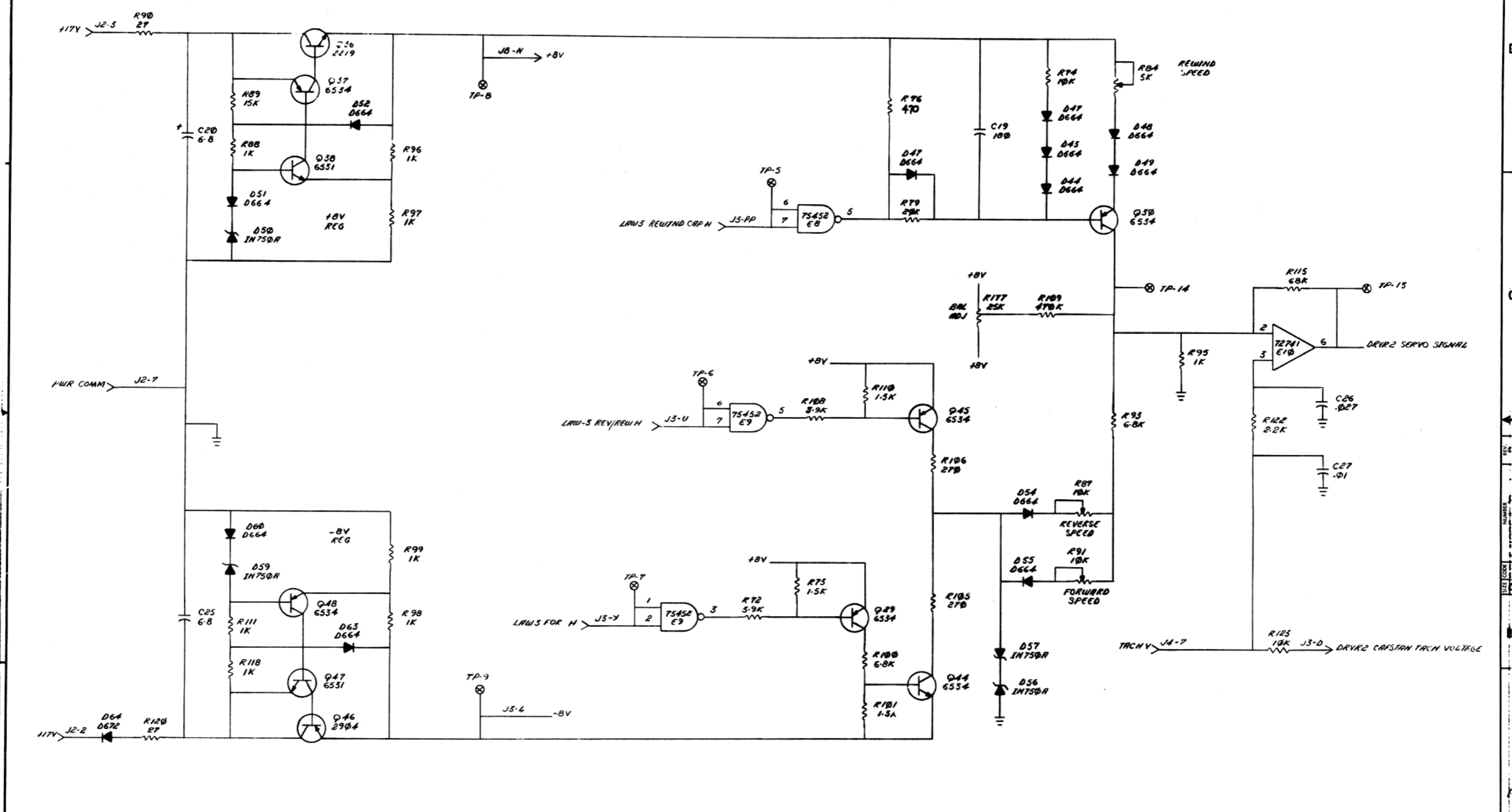


REEL MOTORS

REV.	B
DATE	11/2/76
BY	JJA
CHKD	STEVE
APP'D	HDRAB
DATE	11/2/76

DRN	11/2/76	FIRST USED ON	H607
CHK'D	11/2/76	TITLE	(DRVR 1)
ENG.	11/2/76	TAPE MOTION POWER BOARD	
PROJ. ENG.	11/2/76		
PROD. A.	11/2/76		
NEXT HIGHER ASSY.			
B-DD-5412264-0-1		SIZE CODE	NUMBER
SCALE	NONE	D CS 5412264-0-1	B
SHEET	1 OF 4	DIST.	

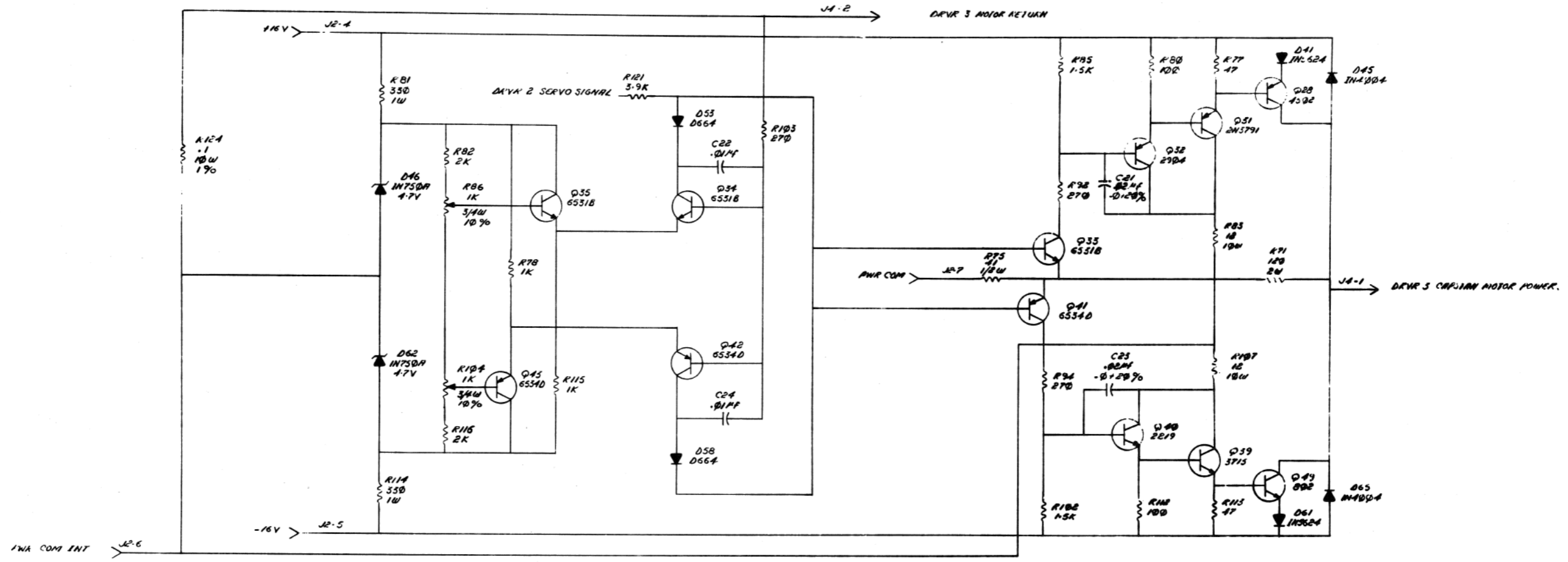
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE (DRVR2) TAPE MOTION POWER BOARD
 SIZE CODE DCS
 NUMBER 5412264-0-1
 REV. B
 SCALE # SHEET 2 OF 4

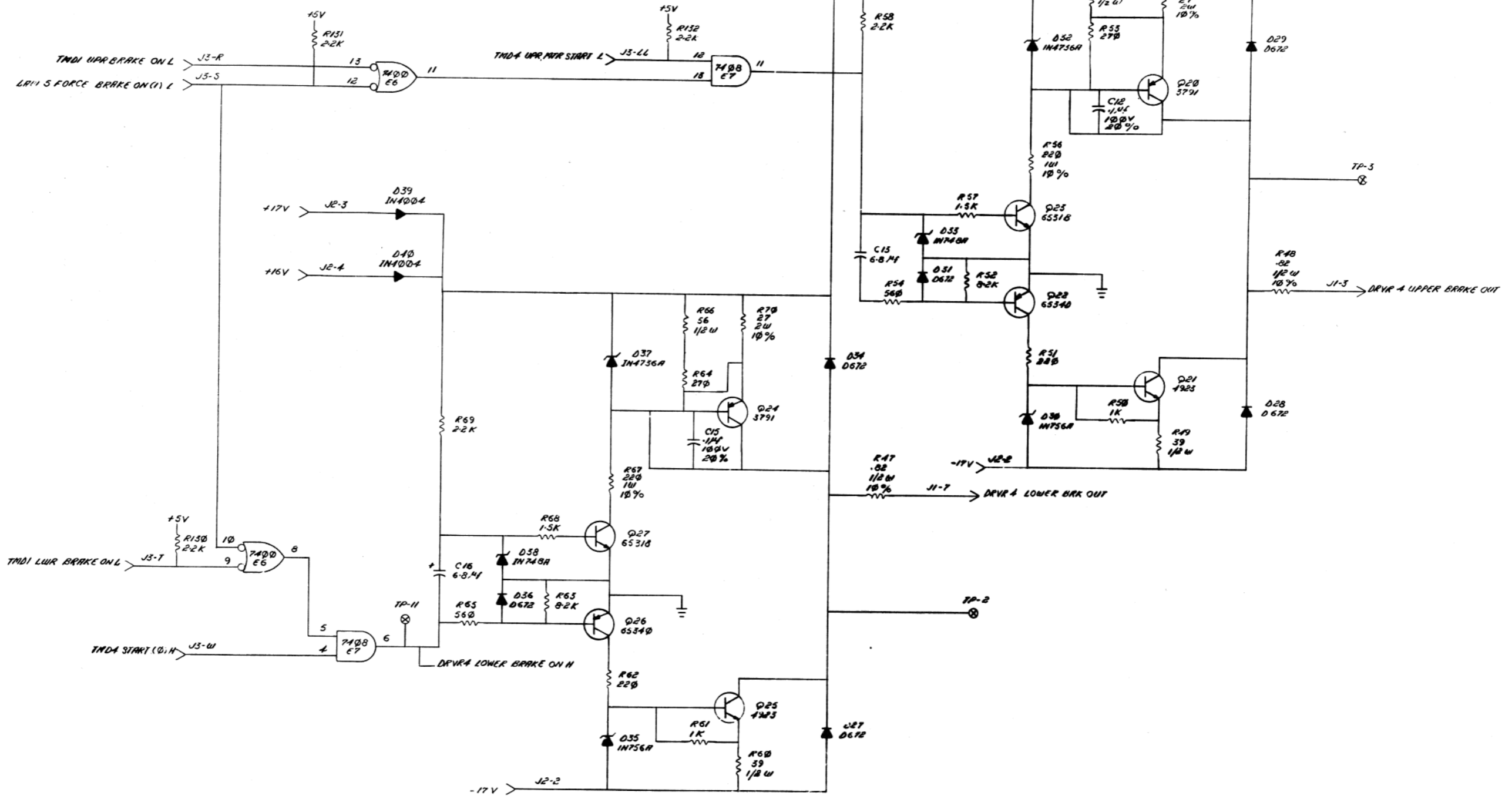
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CAPSTAN DRIVER

REVISIONS		
CHK	CHANGE NO.	REV.

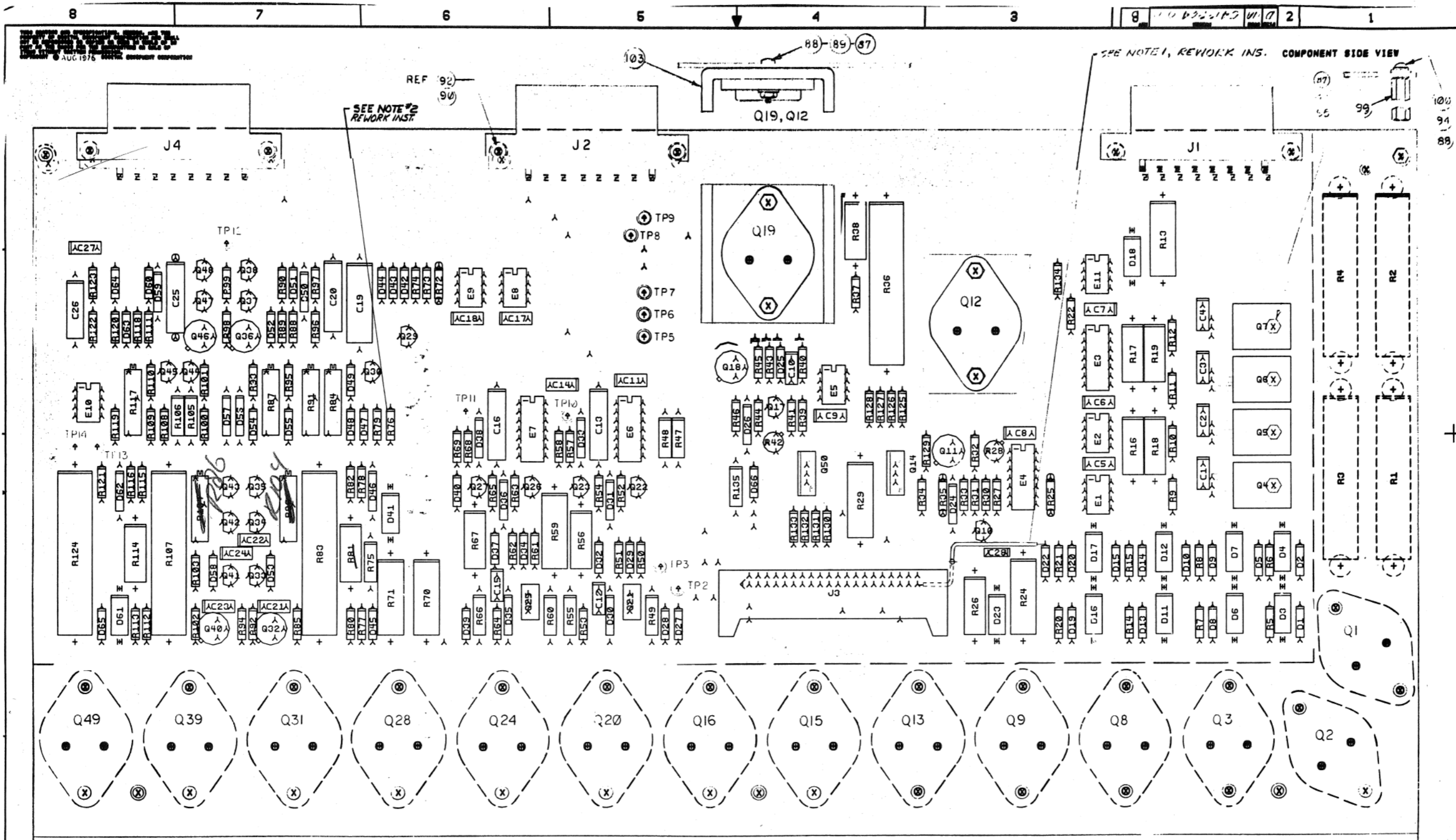
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REVISIONS		
CHK	CHANGE NO.	REV.

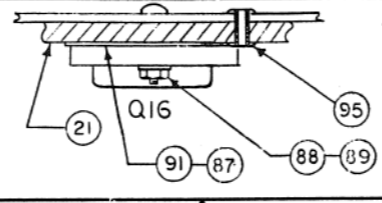
BRAKES

TITLE	TAPE MOTION POWER BOARD (DRVR4)	SIZE CODE	DCS	NUMBER	5412264-0-1	REV.	B
SCALE	1/1	SHEET	4	OF	4	DIST.	



NOTES: **REWORK INSTRUCTIONS:**
 1. DRILL HOLE APPROX AS SHOWN,
 .052 DIA & INSTALL WIRE,
 ITEM 56.
 2. REPLACE R76, MET NO 1300398 WITH
 F76 PART NO 1300316

CHG	NO	REV	DATE	BY	CHK'D
1/1	5412264-1	B			



ETCH REV.	DATE	BY
P.C. DESIGN DATA BASE REV.		

SIGNATURES	DATE
DRN. <i>K. Morrison</i>	8-16-76
CHK'D. <i>[Signature]</i>	11-28-76
ENG. <i>[Signature]</i>	11-28-76
PROJ. ENG. <i>[Signature]</i>	11-28-76
PROD. <i>[Signature]</i>	11-28-76

digital

TITLE TAPE MOTION
POWER BOARD

SCALE 2/1

SHT. 1 OF 3

NEXT HIGHER ASSY. B-DD-5412264-0

SIZE CODE NUMBER REV
0 UA 5412264-0-0 B

1 MS#FIC76

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY Phil Bossman	CHECKED <i>P. Bossman</i>	SECTION 1
DATE 21 Sept. '76	DATE 28 SEP 76	
ENG <i>St. Dub</i>	PROD <i>Y. Dillard</i>	ISSUED SECTION 1
DATE 21 Dec 76	DATE 21 DEC 76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	REF	QUANTITY	VARIATION	REF DESIGNATION
REF			UNIT ASSEMBLY	REF			
1	D-MD-5012263-0-0	5012263	ETCHED CIRCUIT BOARD	1			
2		1000049-00	CAP .027UF 100V 10% MYLAR	1			C26
3		1010279-00	CAP .47UF 50V 10% S. TANT	1			C28
4		1000086-00	CAP 180UF 6V20% S. TANT	1			C19
5		1010978-36	CAP .1UF 50V CER.	6			C1 thru C4, C12,C15
6		1001610-01	CAP .01UF 100V 20% DISC.	12			C5,C6,C7,C9,C10,C11,C14,C17,C18, C22,C24,C27
7		1005306-00	CAP 6.8UF 35V 10 S.TANT	4			C20,C25,C13,C16
8		1000004-00	CAP .02UF 100V 20%	2			C21,C23
9		1000027-00	CAP 820PF 100V	1			C8
10		1100114-00	DIODE D664	15			D25,D42,D43,D44,D47,D48,D49,D51 thru D55,D58,D60,D63
11		1100127-00	DIODE 1N 748A ZENER	2			D33,D38
12		1100124-00	DIODE 1N 750A ZENER	6			D46,D50,D57,D59,D62,D56
13		1105796-00	DIODE 1N 4004	5			D39,D40,D45,D65,D66
14		1103340-00	DIODE 1N 4736A ZENER	2			D32,D37
15		1103441-00	DIODE 1N 756A ZENER	2			D30,D35
16		1105275	DIODE D672	19			D1,D2,D5,D8,D9,D10,D13,D14,D15,D19, D20,D22,D27 thru D29,D31,D34,D36,D64
17		1110856-00	DIODE 1N 970B ZENER	1			D24

ECO. NO.	00001
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	TAPE MOTION PWR BOARD		B	PL	5412264-0-0	B
		SHEET 1 OF 6	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY PHIL BOSSMAN	CHECKED <i>Phil Bossman</i>	SECTION 1
DATE 21 Sept. '76	DATE 28 Sep 76	ISSUED SECTION 1
ENG <i>S. Dillard</i>	PROD <i>M. Dillard</i>	
DATE 21 Dec 76	DATE 21 Dec 76	

QUANTITY / VARIATION

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	UNIT	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION	VARIATION
18		1209340-00	CONN MATE-N-LOK 8 PIN	3												
19		1209456-01	SOCKET TERMINAL CONTACT	24												
20		1209941-02	CONN 40P RT ANG HEADER	1												
21		7411390-00	HEAT SINK	1												
22		1300202-00	RES 47 1/2W 5%	2												
23		1309995-00	RES 56 1/2W 5%	2												
24		1300229-00	RES 100 1/2W 5%	3												
25		1300271-00	RES 220 1/2W 5%	3												
26		1300277-00	RES 220 1W 10%	2												
27		1300285-00	RES 270 1/2W 5%	2												
28		1300295	RES 330 1/2W 5%	6												
29		1300297-00	RES 330 1W 5%	6												
30		1300316-00	RES 470 1/2W 5%	3												
31		1305258-00	RES .47 2W 5% WW	2												
32		1300365-00	RES 1K 1/2W 5%	14												
33		1300391-00	RES 1.5K 1/2W 5%	7												
34		1300417-00	RES 2.2K 1/2W 5%	14												
35		1300439-00	RES 3.3K 1/2W 5%	2												

REF DESIGNATION

J1, J2, J4
 J3
 R77, R113
 R55, R66
 R80, R112, R35
 R25, R51, R62
 R56, R67
 R105, R106
 R9 thru R12, R129, R37
 R114, R81, R16 thru R19
 R44, R31, R76
 R38, R26
 R27, R45, R32, R50, R61, R78, R88, R95, R96, R97, R98, R99, R111, R115
 R57, R68, R73, R85, R101, R102, R110
 R22, R33, R58, R69, R122, R125 thru R128, R130 thru R134
 R46, R34

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TITLE
 TAPE MOTION PWR BOARD

ASSY NO.
 SHEET 2 OF 6

SIZE CODE NUMBER
 B PL 5412264-0-0

REV.
 B

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY PHIL BOSSMAN	CHECKED <i>J. Bossman</i>	SECTION 1
DATE 21 Sept. '76	DATE 28 SEP 76	
ENG <i>J. Dillard</i>	PROD <i>J. Dillard</i>	ISSUED SECTION 1
DATE 21 Dec 76	DATE 21 DEC 76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	VARIATION	REF DESIGNATION
36		1300444-00	RES 3.9K 1/4W 5%	3		R108,R121,R72
37		1300479-00	RES 10K 1/4W 5%	4		R30,R43,R74,R123
38		1300398-00	RES 1.8K 1/4W 5%	1		R76
39		1300496-00	RES 15K 1/4W 5%	3		R41,R89,R118
40		1301327-00	RES 68K 1/4W 5%	1		R119
41		1301522-00	RES 27 1/4W 5%	2		R90,R120
42		1301423-00	RES 6.8K 1/4W 5%	2		R100,R93
43		1301642-00	RES .82 2W 10%	2		R47,R48
44		1311842-00	RES 5 10W 5% WW	1		R36
45		1300257-00	RES 150 2W 5%	1		R24
46		1301874-00	RES 5.6K 1/4W 5%	1		R39
47		1301890-00	RES 560 1/4W 5%	3		R54,R65,R40
48		1301972-00	RES 270 1/4W 5%	5		R53,R64,R92,R94,R103
49		1302336-00	RES 39 1/2W 5%	2		R60,R49
50		1302391-00	RES 20K 1/4W 5%	1		R79
51		1302398-00	RES 470K 1/4W 5%	1		R109
52		1300172-00	RES 10 2W 10%	1		R13
53		1302602	RES 56 1/4W 5%	8		R5,R6,R7,R8,R14,R15,R20,R21
54		1301695-00	RES 47 1/2W 5%	2		R75,R135

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	TAPE MOTION PWR BOARD		B	PL	5412264-0-0	B
		SHEET 3 OF 6	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY DATE ENG DATE	PHIL BOSSMAN 21 Sept. '76	CHECKED DATE PROD DATE	<i>P. Bossman</i> 28 SEP 76 <i>H. Dillard</i> 21 DEC 76	SECTION ISSUED SECTION	1 1
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QUANTITY / VARIATION

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION								REF DESIGNATION
55		1302388-00	RES 2K 1/2W 5%	2								R82,R116
56		9107688-55	WIRE, #24AWG, GRN	AR								
57		1303179-00	RES 8.2K 1/2W 5%	2								R52,R63
58		1305282-00	RES 120 2W 5%	2								R71,R29
59		1305396-00	RES 56 10W 1% WW	4								R1 thru R4
60		1305400-00	RES 12 10W 5%	2								R83,R107
61		1305624-00	RES 27 2W 10%	2								R59,R70
62		1309108-00	RES .1 10W 1% WW	1								R124
63		1309150-14	POT 100K 1/2W 20%	1								R42
64		1309143-07	POT 1K 3/4W 10%	2								R86,R104
65		1309143-09	POT 5K 3/4W 10%	1								R84
66		1309143-10	POT 10K 3/4W 10%	2								R87,R91
67		1309143-12	POT 25K 3/4W 10%	1								R117
68		1501742-00	TRANS DEC 2904	2								Q32,Q46
69		1501881-00	TRANS DEC 2219	4								Q11,Q18,Q36,Q40
70		1505819-00	TRANS 2N3055	1								Q19
71		1503068-00	TRANS DEC 3715	5								Q1,Q3,Q9,Q15,Q39
72		1503409-00	TRANS DEC 6534D	10								Q22,Q26,Q29,Q30,Q37,Q41,Q42,Q43,Q45, Q48,
73		1509338-00	TRANS DEC 6531B	10								Q10,Q17,Q23,Q27,Q33,Q34,Q35,Q44,Q47,Q38

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	TAPE MOTION PWR BOARD		B	PL	5412264-0-0	B
SHEET 4 OF 6			INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION								NOTES:
PARTS LIST												
MADE BY	PHIL BOSSMAN	CHECKED	<i>P. Bossman</i>	SECTION								
DATE	21 Sept. '76	DATE	<i>28 SEP 76</i>	ISSUED SECTION								
ENG	<i>St. Clark</i>	PROD	<i>M. Dillard</i>	ISSUED SECTION								
DATE	<i>21 Dec 76</i>	DATE	<i>21 DEC 76</i>	ISSUED SECTION								

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY	UNIT	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	REF DESIGNATION
74		1509581-00	TRANS 2N3791	7																	Q2, Q8, Q13, Q16, Q20, Q24, Q31
75		1509604-00	TRANS DEC 4923	2																	Q21, Q25
76		1510334-00	TRANS DEC 4502	1																	Q28
77		1510335-00	TRANS DEC 802	1																	Q49
78		1510598-00	TRANS D 45C8	6																	Q4, Q7, Q14, Q50, Q5, Q6
79																					
80		1510196-00	TRANS 2N 5302	1																	Q12
81		1905575-00	IC DEC 7400	1																	E6
82		1910155-00	IC DEC 7408	1																	E7
83		1910298-00	IC DEC 741	2																	E5, E10
84		9007201-00	TRANSIPAD	6																	
85		1910415-00	VOLT. REG 723	1																	E4
86		1910645-00	IC DEC 75452	4																	E9, E8, E1, E2
87		9008268-00	THERMAL COMPOUND	A/R																	
88		9006012-4	SCREW BD HD 4-40X7-16 LG	34																	
89		9006557-00	KEPNUT 4-40	36																	
90		9006706-00	WASHER NYLON	6																	
91		9006721-00	WASHER, ANODIZED	14																	
92		9006745-00	EYELET	6																	

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DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY PHIL BOSSMAN	CHECKED <i>P. Bossman</i>	SECTION 1
DATE 21 Sept. '76	DATE 28 SEP 76	
ENG <i>S. Shub</i>	PROD <i>H. Dillard</i>	ISSUED SECTION 1
DATE 21 Dec 76	DATE 21 DEC 76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	UNIT	REF DESIGNATION
93		9007791-00	CAMBION TERMINAL	12		TP2, TP3, TP5 THRU TP14
94		9006632-00	WASHER, INT LOCK	2		
95		9006746-00	EYELET	4		
96		9006010-4	SCREW, BD HD 4-40X5-16 LG	4		
97		1110420-00	DEC RECTIFIER, A15B (1N5624)	12		D3, D4, D6, D7, D11, D12, D16, D17, D18, D23, D41, D61
98		1100125-00	DIODE 1N758A ZENER	1		D26
99		9007265-00	SPACER, THD (4-40X1.00LG)	2		
100		9006655-00	WASHER, FLAT 4-40	2		
101						
102		1309150-04	POT 5K 1/2W 20% 100PPM	1		R28
103		7417136-00	HEAT SINK	2		
REF		5412264-0-1	CIRCUIT SCHEMATIC	REF		
105		1910406-00	IC 75451	1		E11
106		1909004-00	IC 7402	1		E3

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TITLE
TAPE MOTION PWR BOARD

ASSY NO.

SIZE
B PL

NUMBER
5412264-0-0

REV.
B

SHEET 6 OF 6

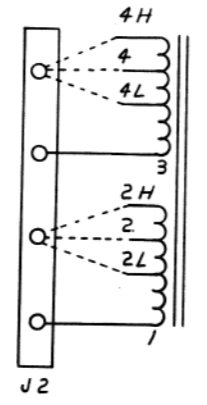
INSERTION PARTS LIST DATA BASE REV A

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NOTES:

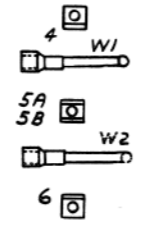
- 1. F2 = 6 1/4 AMP SB FOR 125V/60 CYCLE OPERATION. USE LITTEL FUSE P/N 313625. F2 = 4 AMP SB FOR 250 V/50 CYCLE OPERATION.
- 2. ALL 5 TRANSISTORS, Q5 - Q8, Q10 ARE TO HAVE #10 AWG TUBING, 3/16" LONG, ON 4-40 SCREWS THAT HOLD TRANSISTORS TO HEAT-SINK.
- 3. THERMAL COMPOUND TO BE APPLIED BETWEEN HEAT SINK AND DIODES D9, D11, D12, Q5 - Q8, Q10, AND D15.
- 4. USE ONLY BUSS SLO-BLOW FUSE MDX5 PART #9009791.
- 5. INSTALL #4 LOCKWASHERS (ITEM 107) UNDER THE HEAD OF ALL SCREWS USED TO SECURE Q5-Q8 AND Q10. TORQUE HARDWARE TO 5.5 IN. LBS. PART #9008033-1 SHOULD BE USED IN PLACE OF ITEM 18 (9006013-1) ON Q5, Q6, Q7, Q8 AND Q10 TRANSISTORS HAVING EXTRA THICK FLANGES.

VOLTAGE RANGE 50-60 CPS	TRANSFORMER PRIMARY TAPS
95 TO 105 195 TO 210	1 AND 2L; 3 AND 4L
105 TO 120 210 TO 240	1 AND 2; 3 AND 4
120 TO 132 240 TO 264	1 AND 2H; 3 AND 4H



SEE NOTE 1

VOLTAGE (NOMINAL) INPUT	W1 CONN	W2 CONN
115V 50-60 CPS	4	6
230V 50-60 CPS	5A	5B



IC TYPE	IC PIN LOCATIONS
75451	4 B
	10 GND +5V

GND #10 BY ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
3	R37,R26,R44	RES 1K POT	1309150-03	55 REF
2	R39,R63	RES 56 1/4 W 5%	1302602	56 REF
2	R38,R47	RES 2.4 K 1/4 W 5%	1303177	57 REF
1	R45	RES 2.74 K 1/4 W 1%	1304868	58 1
3	R41,R50,R32	RES 1 2W 5% WW	1305428	59 6
1	R51	RES 10K 1/4 W 5%	1300479	60 20
1	R54	RES 8.2K 1/4 W 5%	1303179	61 2
3	R49,R58,R61	RES 750 1/4 W 5%	1301401	62 2
1	R57	RES 5K POT	1309150-4	63 2
1	R59	RES 500 POT 1/2 W 10%	1309150-B	64 1
1	R62	RES 330 1/4 W 5%	1300295	65 3
3	R66,R65,R64	RES .03 5W 3%	1310876-01	66 3
3	R65,R64	RES .05 5W 3%	1310876-02	67 3
5	R21,R28,R35,R48,R67	RES 100 1/4 W 5%	1300229	68 3
1	R69	RES 10 10W 10%	1300173	69 5
3		WASHER, LOCK, INTERNAL	9006633	70 4/R
4		SPACER, ROUND FIBRE #6-32	9009556	71 10
3		SCREW PAN HD #6-32 x 1/4	9006020-1	72 10
1	Q5	TRANSISTOR 2N5302	1510196	73 4/R
4	Q6,Q7,Q8,Q10	TRANSISTOR 2N3055	1505819	74 1
2	Q11,Q12	TRANSISTOR 2N2904A	1501913	75 1
3	D15, D22, D26	SCR 2N4441	1505867	76 1
3	E1,E2,E3	IC DEC 723	1910415	77 1
1	E4	I.C. LM304	1911555	78 52
1	E5	I.C. DEC 75451	1910406	79 1 CI
3	W2,W3,W4	JUMPER INSULATED (.4)	9009185	80 1 C5
1	F2	FUSE 6 1/4 A SB	9007223	81 6 C6,C8,C13,C18,C20,C22
1	F2	FUSE 4 A SB	9007220	82 2 C9,C10
1	F4	FUSE 15 A SB	9007227	83 2 C17,C19
1	F5	FUSE 3.0 A SB	9007218	84 2 C11,C15
2	F6,F7	FUSE 20 A	9008895	85 2 C12,C16
2	F8,F9	FUSE 5 A SB	9007222	86 2 C21,C24
2	F11,F10	FUSE 3 1/4 A	9007210	87 4 D8,D17,D21,D25
3	F13,F14,F12	FUSE 15 A (AXIAL LEAD)	1210929	88 2 D9,D11
1	F1	FUSE 5 A SB (BUSS MDX5)	9009791	89 4 D10,D18,D19,D27
1	K2	RELAY	1210683	90 1 D16
2	L1,L2	INDUCTOR 12 UH	1603358	91 1 D20
6		WASHER NYLON	9006707	92 1 D23
3		WASHER LOCK	9007801	93 1 D24
2		ROLL PIN 1" LONG	9009372	94 1 D1
8		SPLIT LUG	9006735	95 2 J2,J3
1	W1 (F15 LOCATION)	WIRE, BUSS, 22 AWG.	9107560-01	96 2 J4,J5
5	1 THRU 4,6	TAB FASTON	9008219	97 1 R1
1	1	TAB FASTON	9007113	98 3 R9,R27,R36
1	1	HEAT SINK	1210907	99 2 R10,R11
1	1	WASHER, FLAT	9006653	100 2 R12,R13
1	1	SCR, PAN HD #6-32 X 1/2	9006024-1	101 3 R42,R46,R52
1	1	NUT, KEPS	9008185	102 4 R22,R43,R53,R68
1/4		TUBING, #10 AWG 3/16 LG	9107302-11	103 2 R24,R60
1		RES 47 1/4 W 5%	1300202	104 1 R25
1	D12	DIODE (UNITRODE)	1113889-0	106 1 R30
1	D12	DIODE (UNITRODE)	1113889-0	106 1 R30
10		LOCKWASHER #4INT	9006632	107 2 R31,R55
A/R		WIRE, 30 GA SOLID	9105740-55	108 1 R23

FIRST USED ON OPTION MODEL T1J16

ETCH BOARD REV. A

REVISIONS

CHK	CHANGE NO.	REV.

DEC NO. EIA NO. DEC NO. EIA NO.

SEMICONDUCTOR CONVERSION CHART

DRN. DATE 3-18-76

CHKD. DATE 3-18-76

ENG. DATE 3-18-76

PROJ. ENGR. DATE 3-18-76

PROD. DATE 3-18-76

NEXT HIGHER ASSY

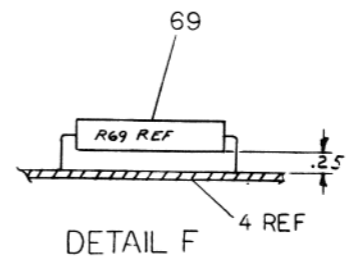
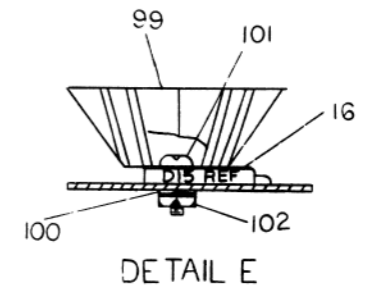
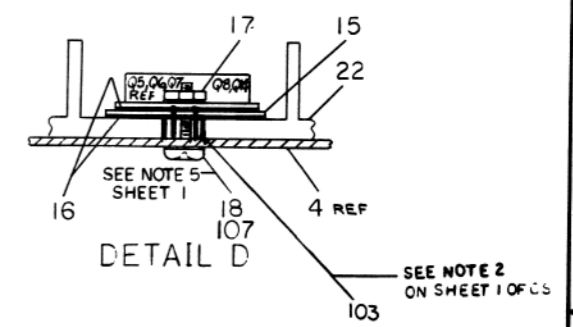
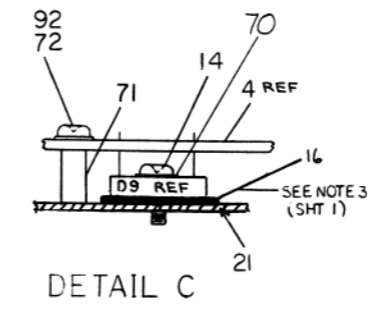
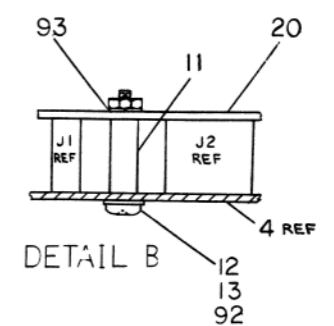
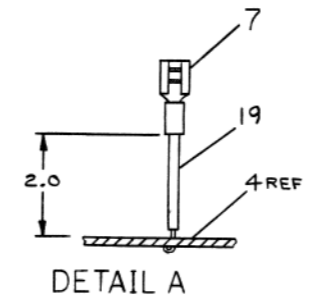
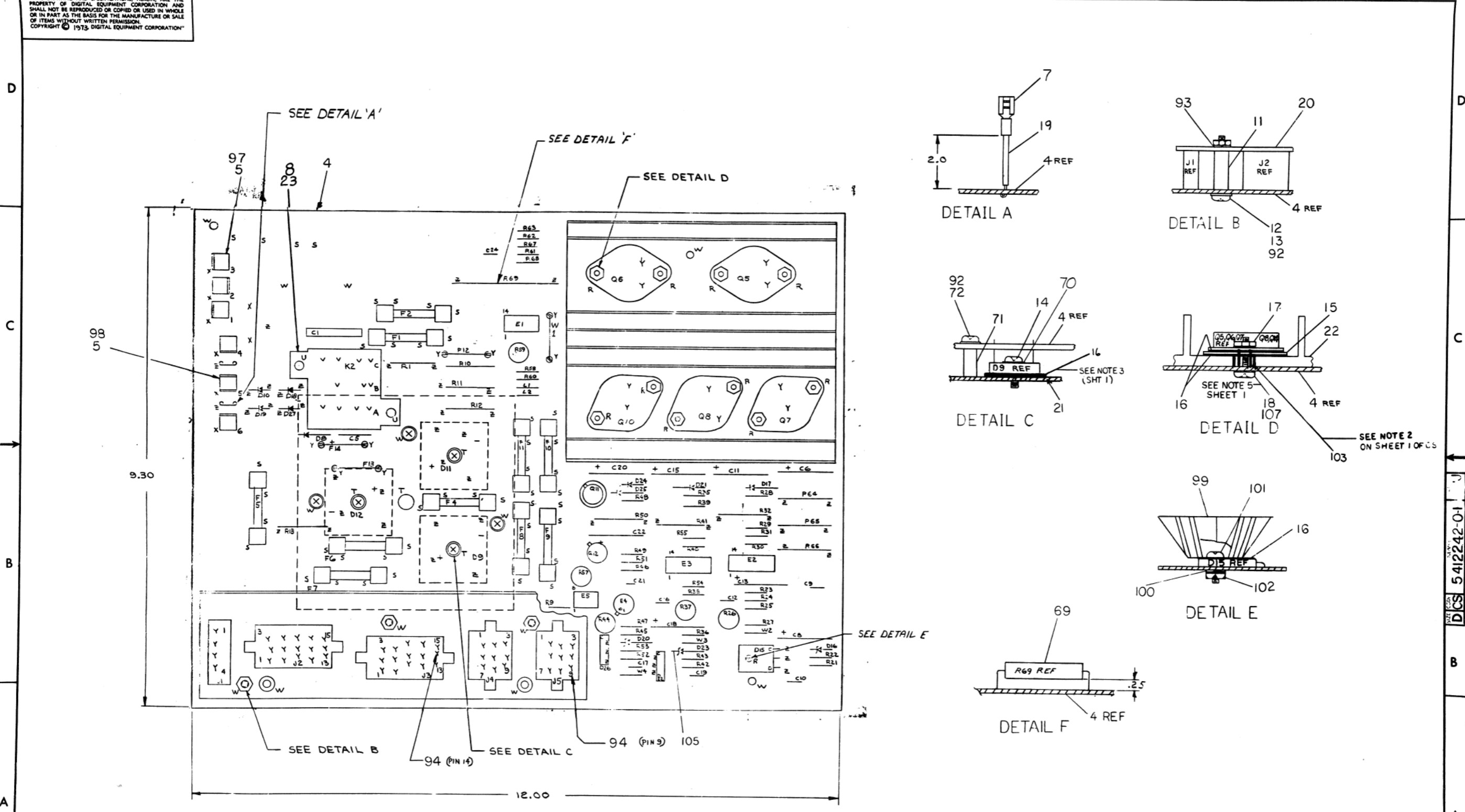
TITLE: TUI6 POWER SUPPLY

SIZE CODE: DCS NUMBER: 5412242-0-1 REV. J

SHEET 1 OF 3

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DCS 5412242-0-1 2

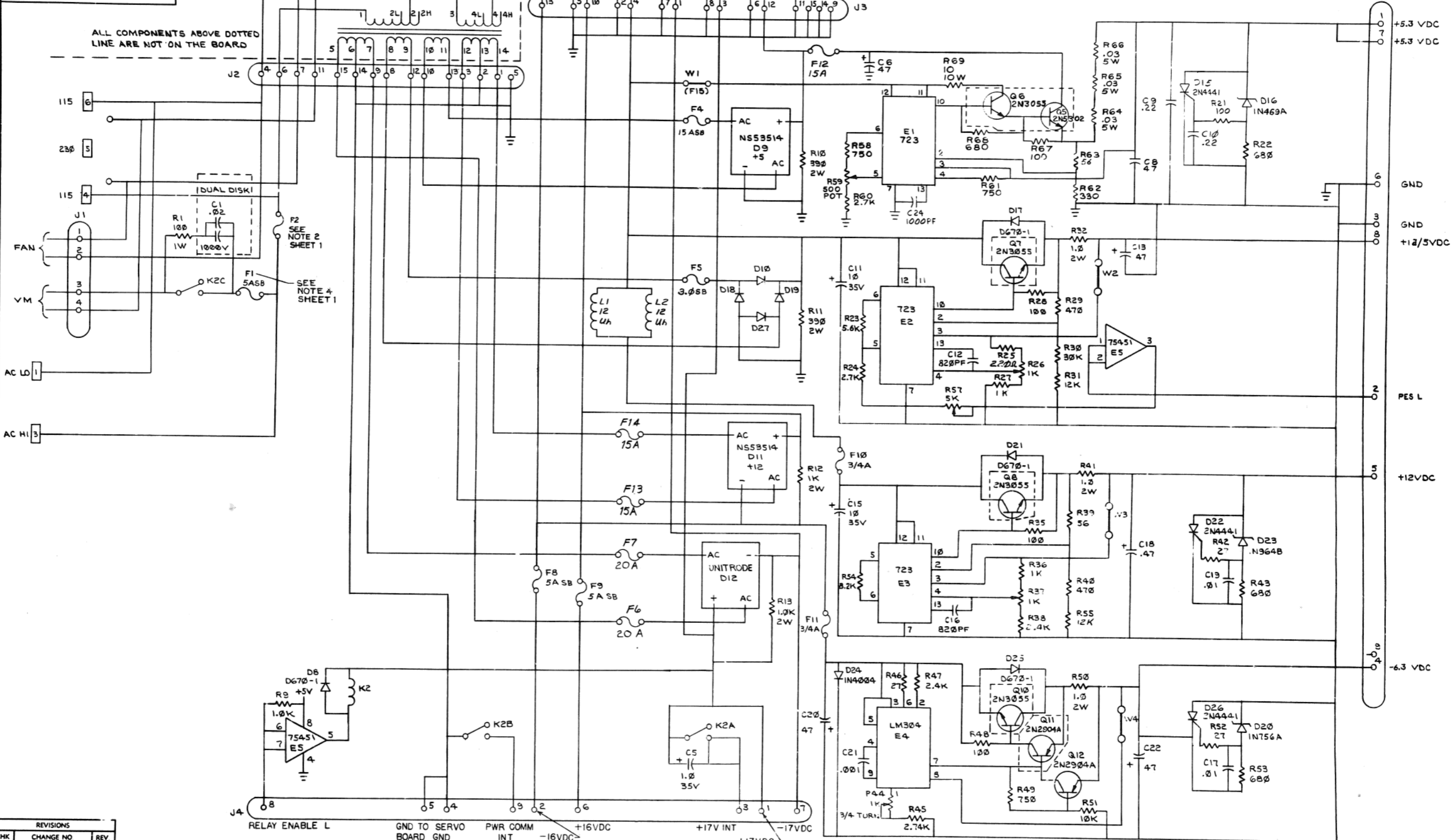


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TUI6 POWER SUPPLY	SIZE CODE	NUMBER	REV.
SCALE	SHEET 2 OF 3	DIST.	DCS 5412242-0-1	WJ

DCS 5412242-0-1

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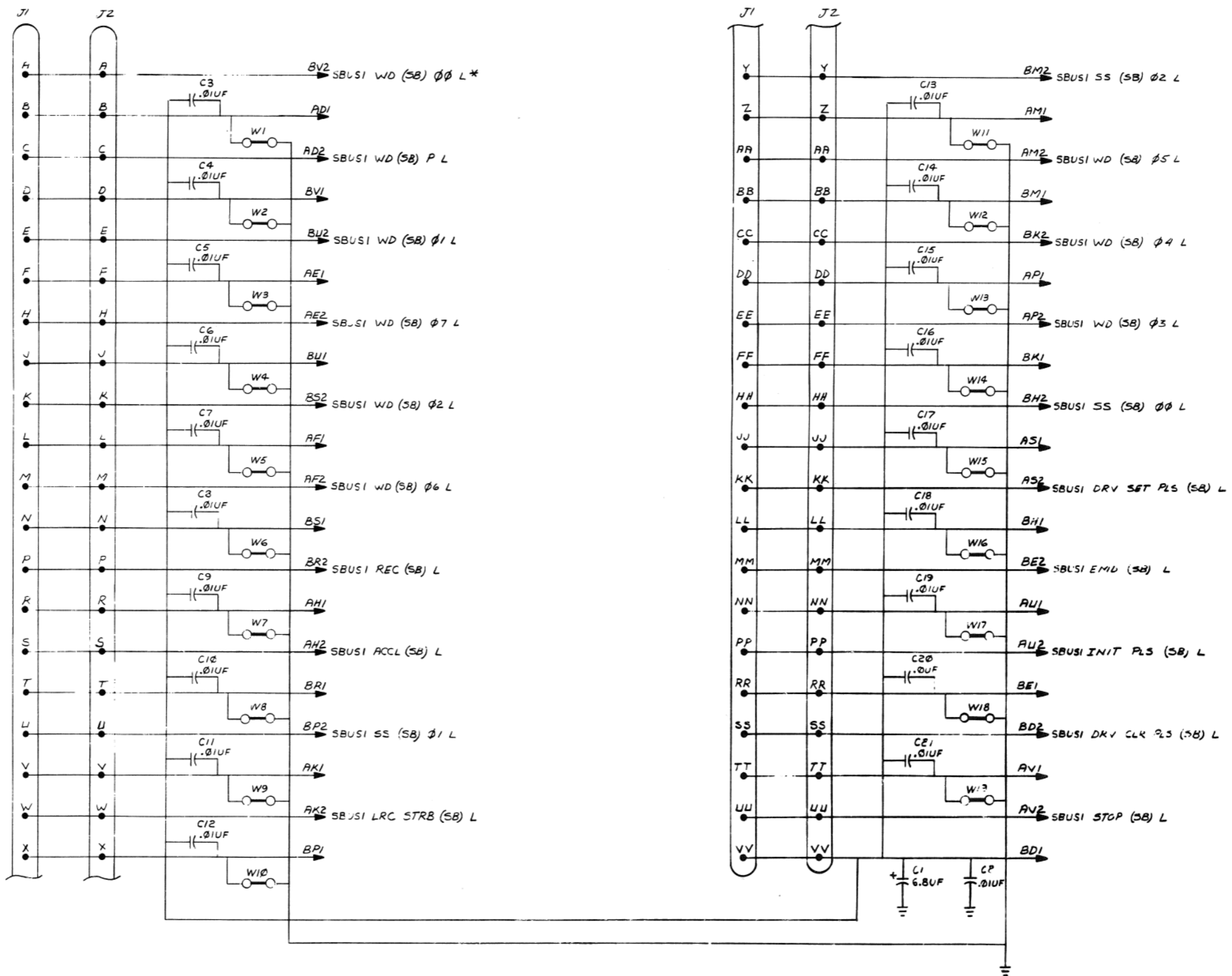


REVISIONS		
CHK	CHANGE NO	REV

TITLE	TU16 POWER SUPPLY	SIZE CODE	NUMBER	REV.
SCALE	SHEET 3 OF 3	D CS	5412242-0-1	

D CS 5412242-0-1

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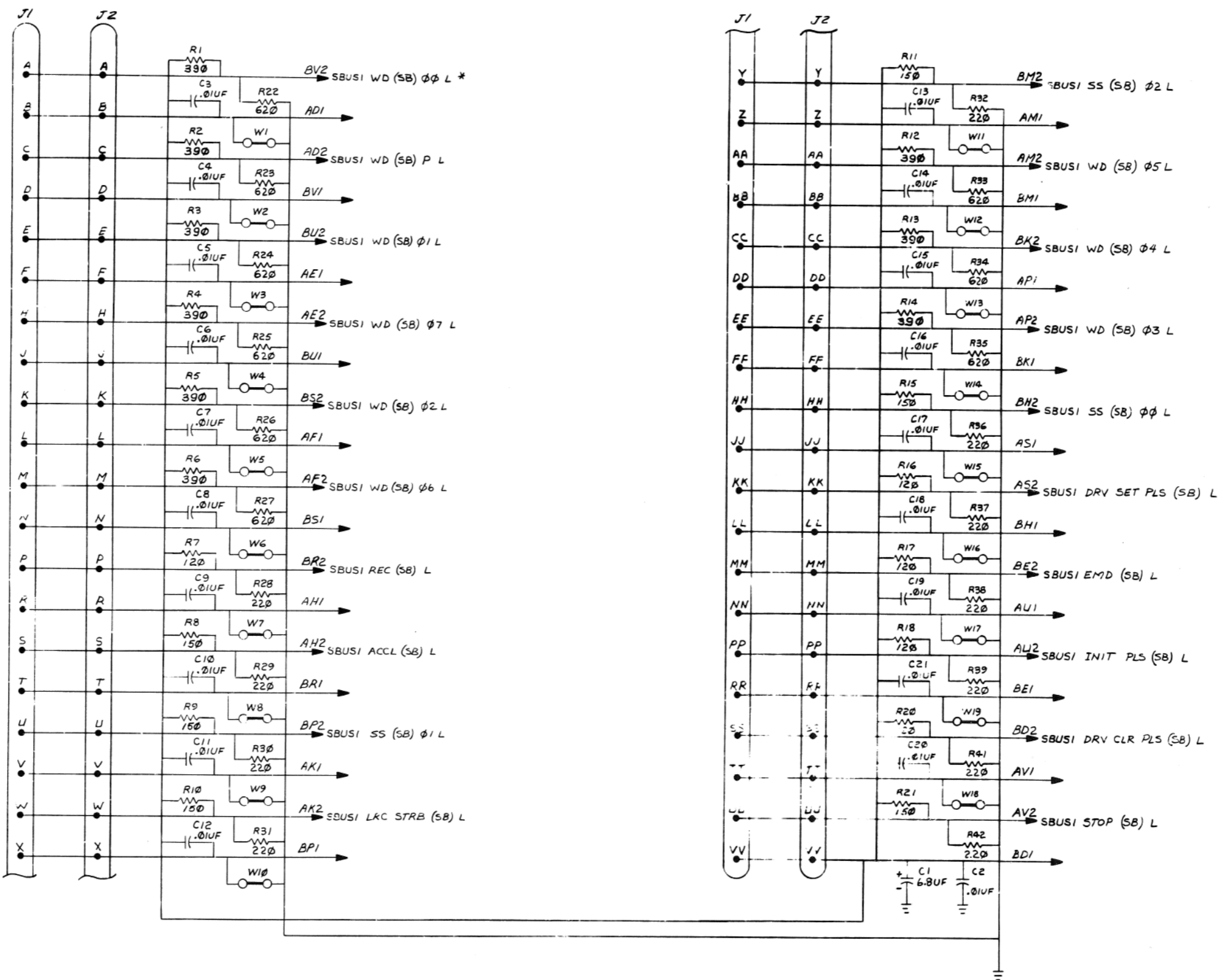
* NOTE: ALL SIGNALS ORIGINATE IN TM02.

REVISIONS		
HR	CHANGE NO	REV

TITLE	GEN PURPOSE CARD (A&B)	SIZE CODE	DCS	NUMBER	M9001-0-1	REV.	C
SCALE	+	SHEET	2	OF	2	DIST.	

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DCS M9001-YB-1 2

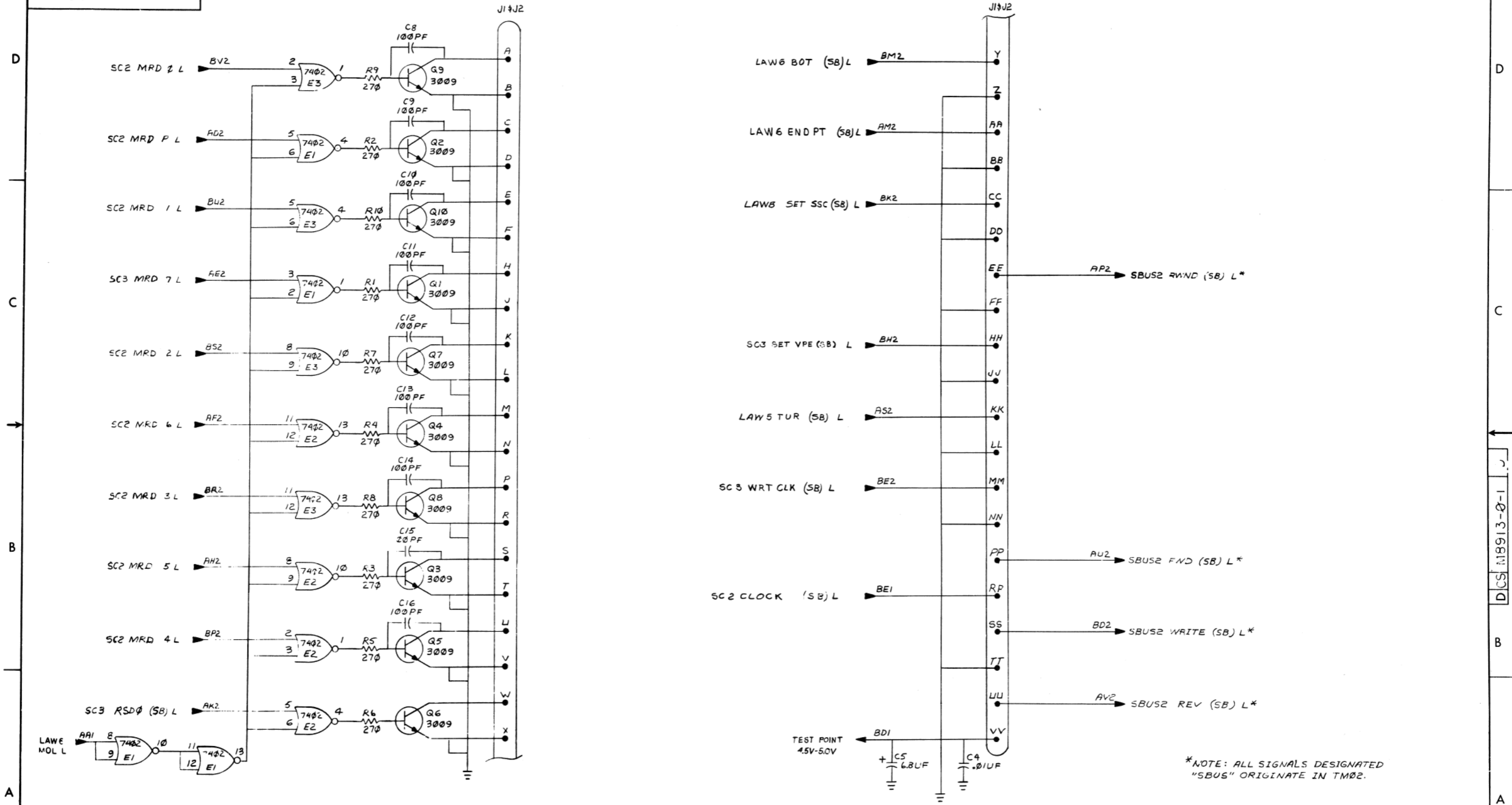


* NOTE: ALL SIGNALS ORIGINATE IN TM32

REVISIONS		
CHK	CHANGE NO	REV

TITLE GEN PURPOSE CARD (A & B) SIZE CODE DCS NUMBER M9001-YB-1 REV. C
SCALE SHEET 2 OF 2 DIST.

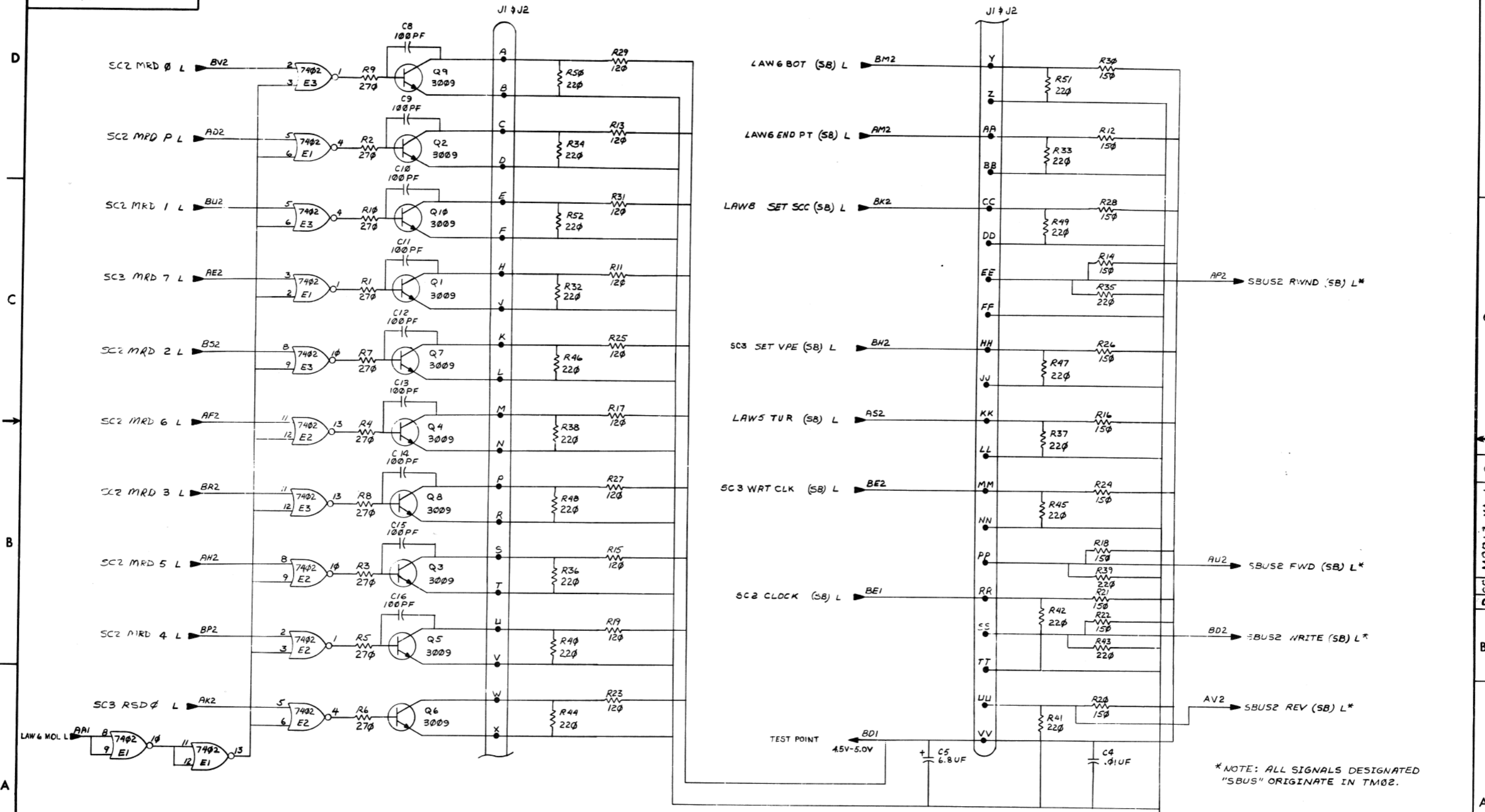
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REVISIONS		
CHR	CHANGE NO	REV

TITLE	SBUS2 (SLOT C/P) DATA DRIVER	SIZE CODE	D CS	NUMBER	M8913-0-1	REV.	
SCALE		SHEET	2	OF 2	DIST.		

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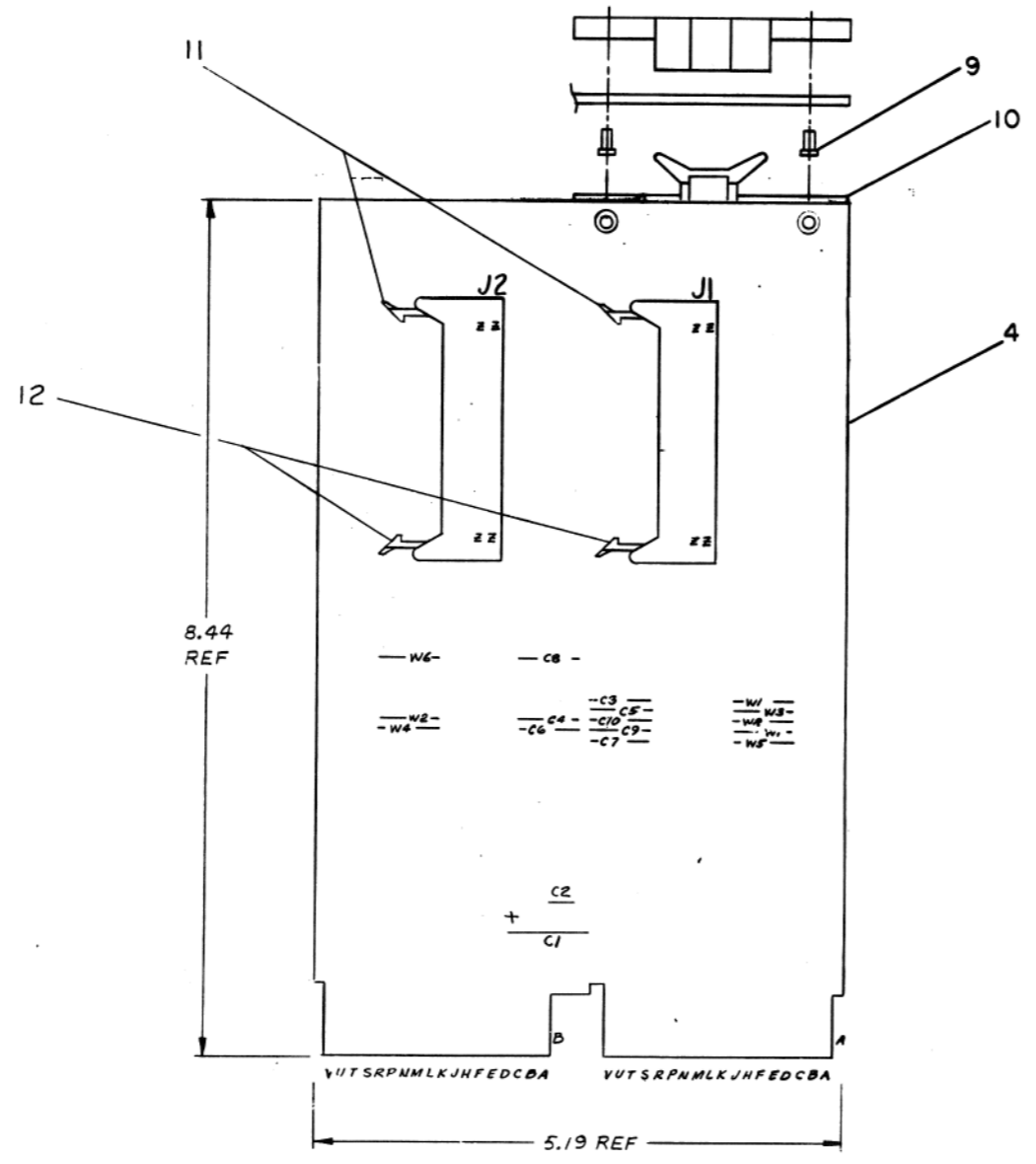


REVISIONS		
CHK	CHANGE NO.	REV.

DCS M8913-YA-1 C

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NOTES:



0 1-VA-1006W SCD 2

REF	X-Y COORDINATE HOLE LOCATION	K-CO-M9001-2-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M9001-YA-5	2
REF	MODULE ECO HISTORY	B-MH-M9001-YA-6	3
1	ETCHED CIRCUIT BOARD	5010465	4
9	C2 THRU C10	CAP .01UF 100V 20% AXIAL	5
1	C1	CAP 6.8UF 35V 10% TANT	6
8	W1 THRU W8	JUMPER, INSULATED WIRE	7
2	J1, J2	CONN, 40 PIN	8
4		EYELET	9
2		HANDLE, FLIP-CHIP, MAGENTA	10
2		CONNECTOR LATCH, LEFT	11
2		CONNECTOR LATCH, RIGHT	12

IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

FIRST USED ON OPTION MODEL		QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																
TU16																						
ETCH BOARD REV C PARTS LIST																						
<table border="1"> <tr> <td>DRN</td> <td>DATE</td> <td rowspan="5"> </td> <td rowspan="5"> TITLE GEN PURPOSE CARD (E & F) </td> </tr> <tr> <td>CHKD</td> <td>DATE</td> </tr> <tr> <td>ENG</td> <td>DATE</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE</td> </tr> <tr> <td>PRG</td> <td>DATE</td> </tr> <tr> <td colspan="4">NEXT HIGHER ASSY</td> </tr> </table>							DRN	DATE		TITLE GEN PURPOSE CARD (E & F)	CHKD	DATE	ENG	DATE	PROJ. ENG.	DATE	PRG	DATE	NEXT HIGHER ASSY			
DRN	DATE		TITLE GEN PURPOSE CARD (E & F)																			
CHKD	DATE																					
ENG	DATE																					
PROJ. ENG.	DATE																					
PRG	DATE																					
NEXT HIGHER ASSY																						
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE	NUMBER	REV.																
SEMICONDUCTOR CONVERSION CHART				SHEET 1 OF 2	DIC M9001-YA-1	C																

DICS M9001-YA-1 C

8

7

6

5

4

3

DCS M9001-YA-1 2

1

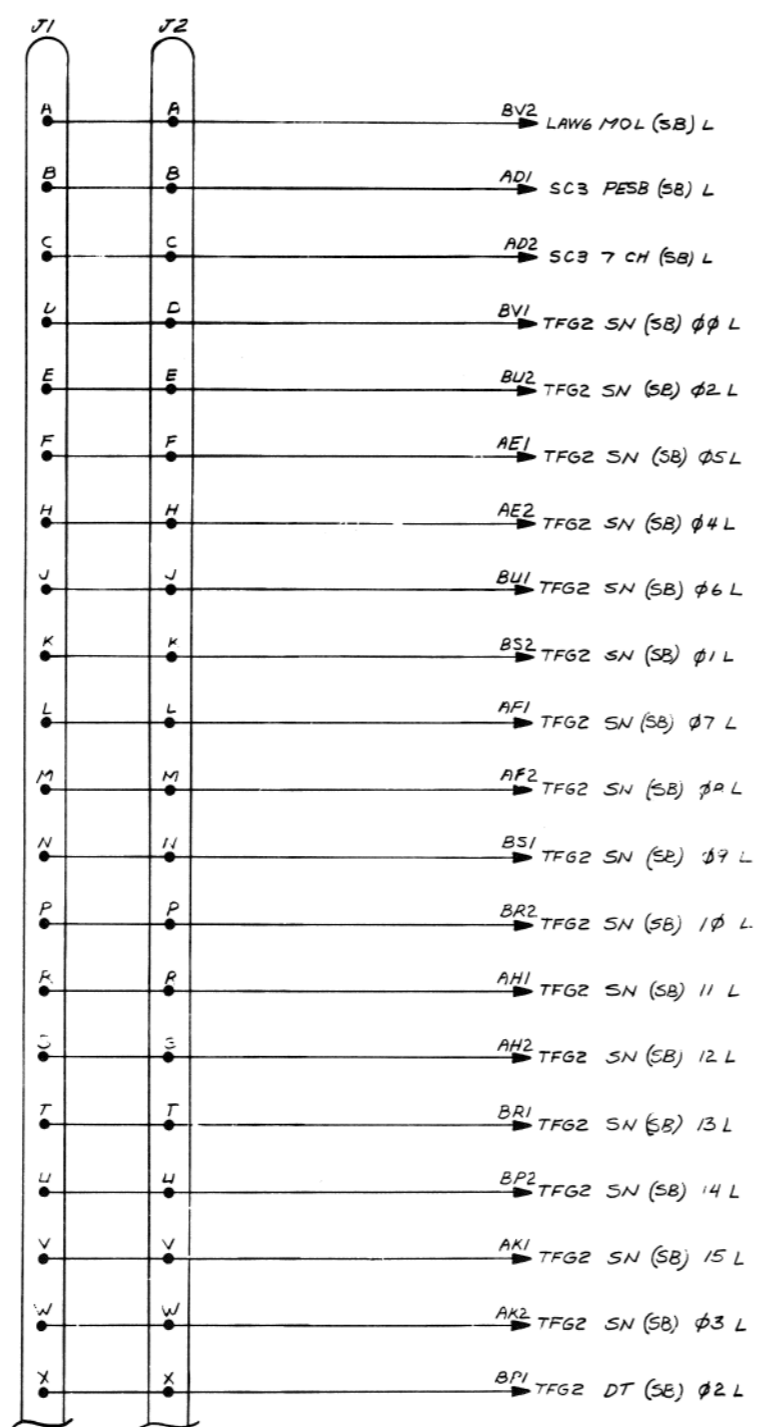
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D

C

B

A



NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO. 082 128

8

7

6

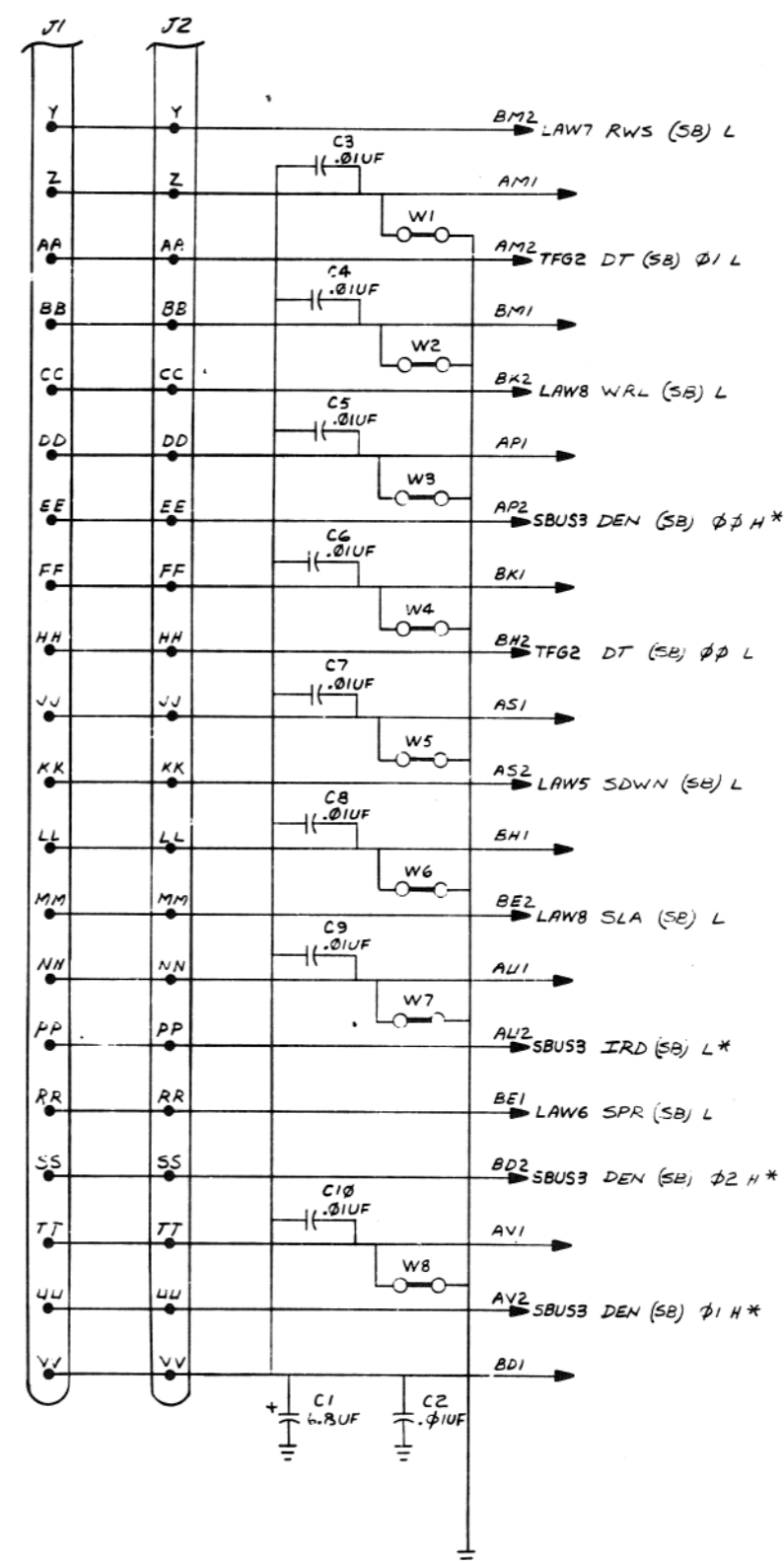
5

4

3

2

1



D

C

DCS M9001-YA-1 C

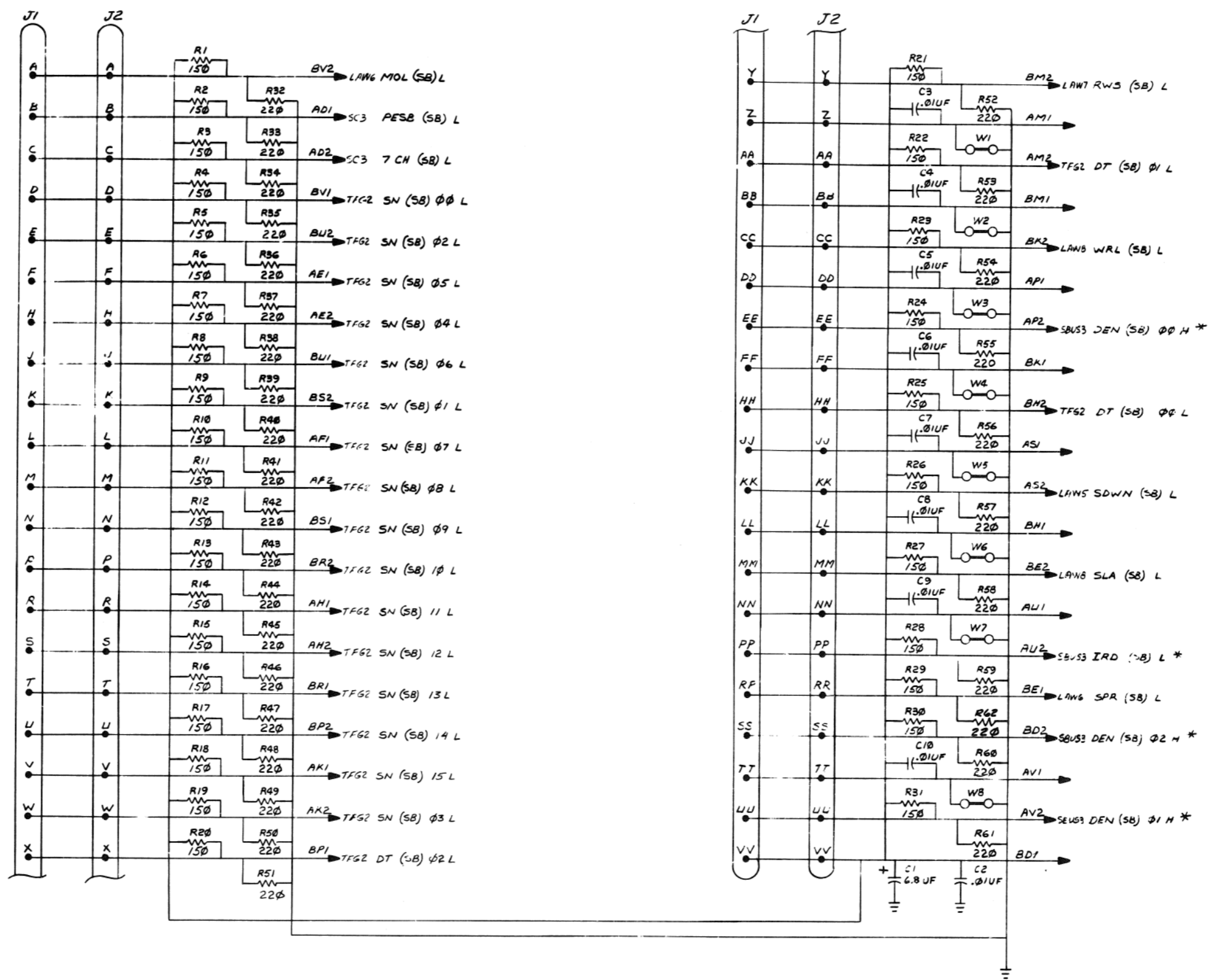
B

A

TITLE	GEN PURPOSE CARD (E & F)	SIZE CODE	D CS	NUMBER	M9001-YA-1	REV.	C
SCALE	1:1	SHEET	2	OF	2	DIST.	

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1-2A-L006W SC D 2



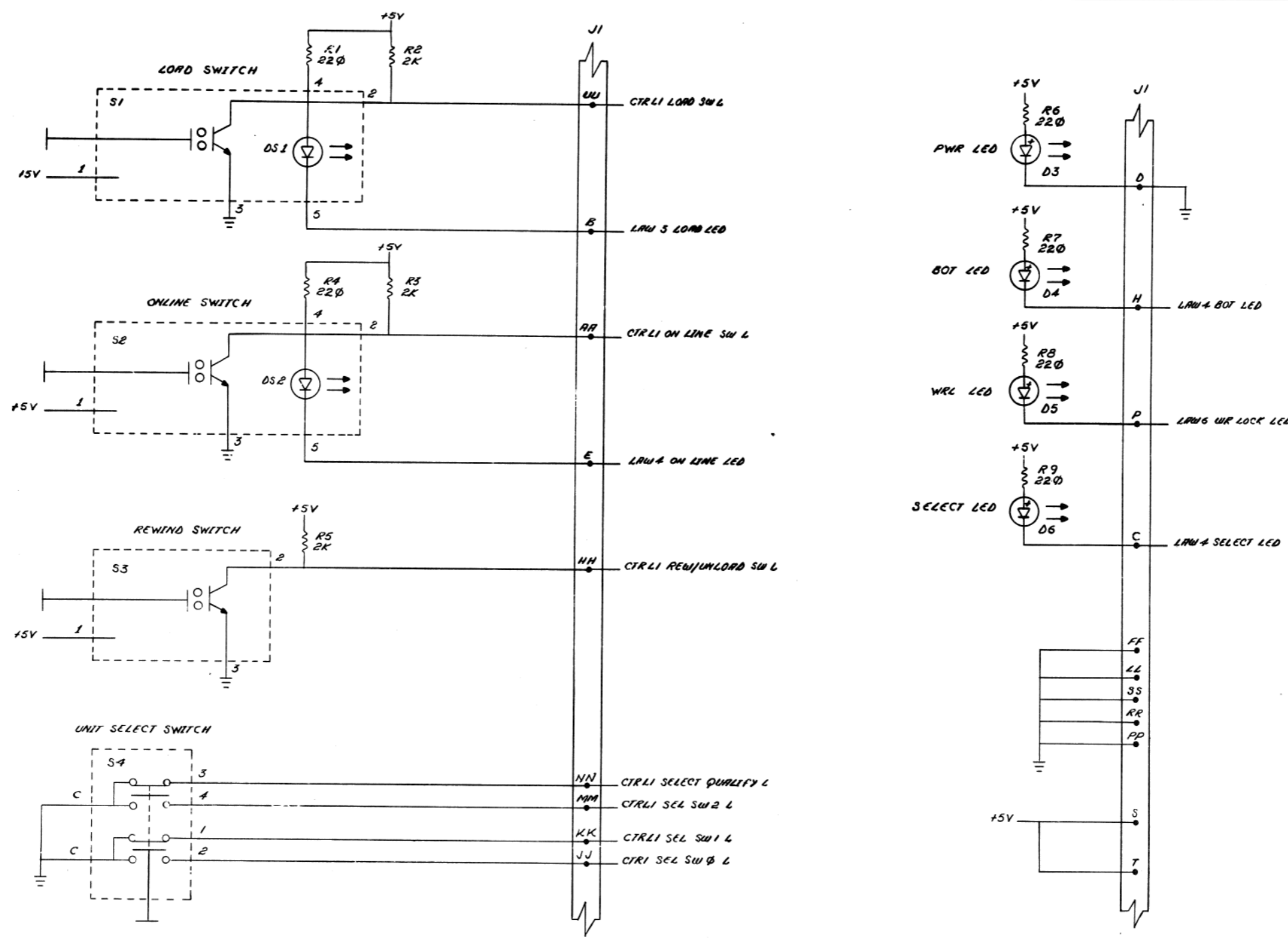
* NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO	REV

TITLE GEN PURPOSE CARD (E & F) SIZE CODE DCS NUMB. M9001-YC-1 REV. C
SCALE SHEET 2 OF 2 DIST.

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REV. B
D CS 5412347-0-1

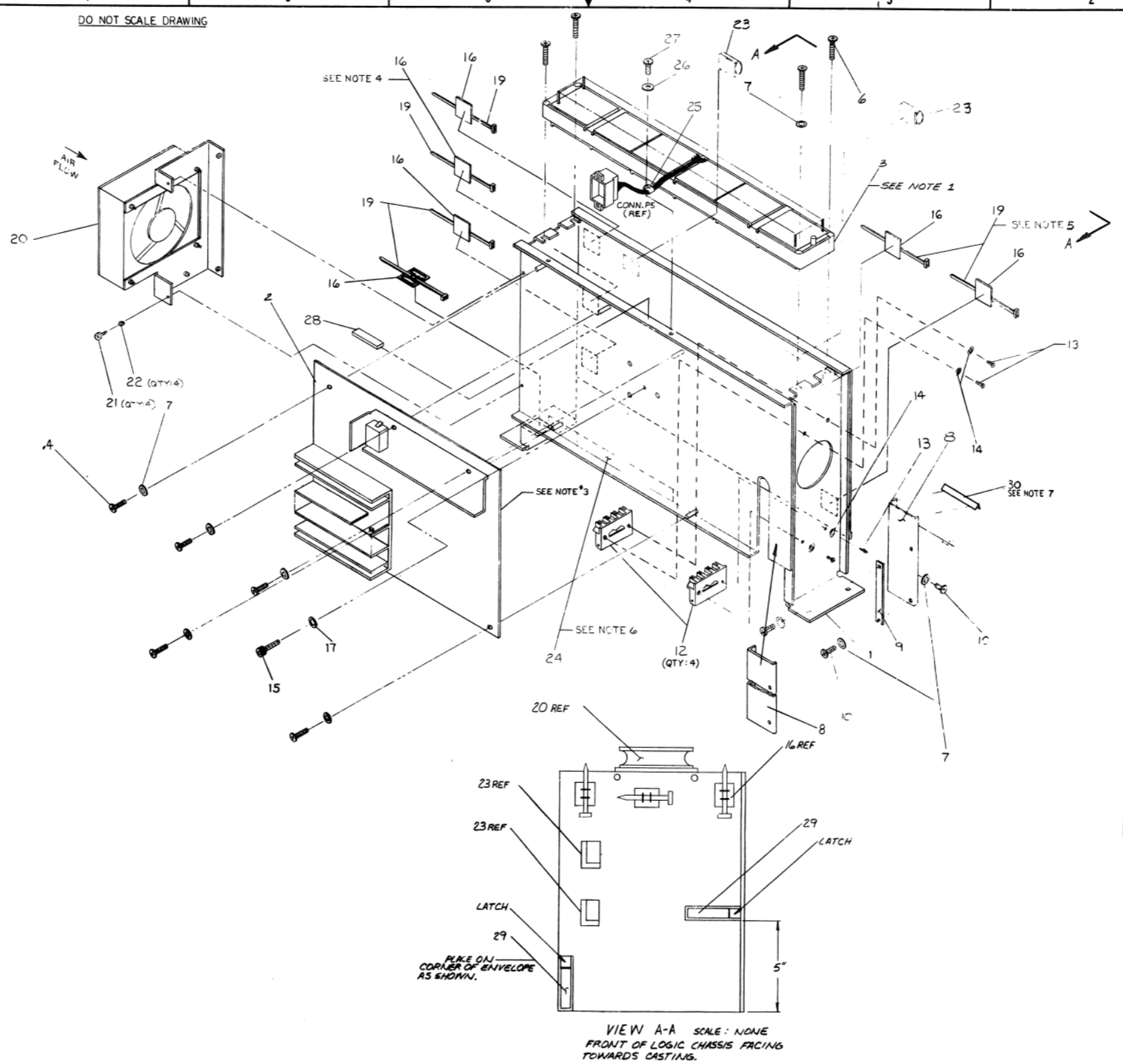


REV. B	REV. A
CHG. NO. 5412347-0000	REV. B
DATE 10/17/76	REV. A
BY P. HARRIS	REV. A
CHKD. H. DRAB	REV. A
DATE 11/17/76	REV. A

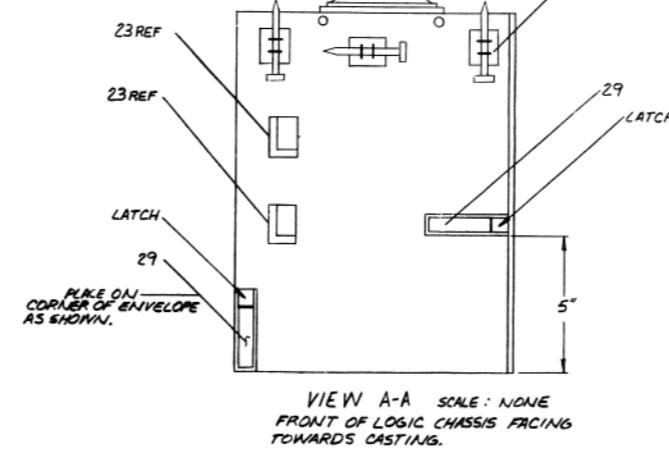
DRM	SEP 14 1976	FIRST USED ON	TU 16W	digital
CHK'D	20 SEPT 76	TITLE	TU-16W SWITCH BOX (CTRL1)	
ENG.	12/21/76	PROJ. ENG.		
PHOD.	12/21/76	PHOD.		
NEXT HIGHER ASSY.				
B-DD-5412347-0	SCALE NONE	SIZE CODE	D CS	NUMBER
SHEET 1 OF 1		DIST.		REV. B

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DO NOT SCALE DRAWING



- NOTES:**
- ITEM 3 TO BE MOUNTED UNDER FLANGE 5.
 - WHEN INSERTING MODULES INTO LOGIC ASSEMBLY CARD GUIDES (ITEM 12) WILL BE ADJUSTED BY SLIDING RIGHT OR LEFT SO AS TO PROPERLY ALIGN P.C. CARDS.
 - BEFORE ASSEMBLING ITEMS 1 AND 2, COAT MATING SURFACE OF DJODE HEAT SINK WITH THERMAL COMPOUND.
 - PLACE ADHESIVE BACK MOUNT DIRECTLY IN MIDDLE OF ENVELOPE, FLUSH WITH TOP RIDGE.
 - DELETE THESE TWO MOUNTS ON TU16U DRIVE.
 - INSTALL ITEM 24 AS SHOWN ALONG EDGE OF FLANGE 01 INSIDE PANEL SURFACE 1.375 IN. FROM TOP PANEL.
 - APPLY ADHESIVE (ITEM 31) TO TOP EDGE OF CABLE CLAMP BRACKET (ITEM 8); THEN AFFIX GROMMET (ITEM 30) TO EDGE.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	HY BOND ADHESIVE	9007594	31
1	GROMMET, BLACK 1.25"	9008209	30
2	CLIP, FLAT CABLE, ADHESIVE BOND	1218715-00	24
1	IND. ELAPSED TIME	1210721	23
1	SCR. PHL PAN HD 6-32 x 50 LG	9006024-01	27
1	WASHER FLAT #6	9006656	26
1	CLAMP, CABLE 3/8 DIA	9007683	25
A/R	TAPE, SCOTCH 3/4 WIDE	9008815-A	24
1	CLIP, PVC HARNESS	9008341	23
1	WASHER LOCK #4	9006688	21
1	SCR. PAN HD 40 x .43 LG	9006012-1	21
1	BRACKET, FAN ASSY	D-44-7012911	20
6	TIE WRAP	9007022	19
A/R	THERMAL COMPOUND	9008868	18
1	WASHER, SPLIT LOCK #8	9006680	17
6	MOUNT, ADHESIVE BACK	9008264	16
1	SCREW, SOCKET HD	9009464-8	15
1	ELECTROSTATIC SHIELD	9006021	14
8	WASHER, INT TOOTH LOCK #8	9006632	14
6	SCREW, PAN 7/16 PH	9006010-1	13
4	GUIDE, CARD & EXTRATER	1210699	12
4	SCREW, PAN 1/4 PH	9006021-1	10
1	PLATE, PRESSURE	CMD-709977	1
2	BRACKET, CABLE CLAMP	121471535	8
13	WASHER, #6 INT LOCK	9006633	7
4	SCREW, PHL PAN HD	9006022-1	6
3	WASHER #8 INT LOCK	9006707	5
5	SCREW, PHL PAN HD	9006027-1	4
1	LOGIC ASSEMBLY	D-44-70130-00	3
1	DC CIRCUIT BOARD	D-44-701224	2
7	LOGIC CHASSIS	D-44-70123-00	1

REV.	DATE	BY	CHKD	DESCRIPTION
1	12/10/74	W. SMITH		ISSUED FOR PRODUCTION
2	12/10/74	W. SMITH		REVISED TO ADD PART 31
3	12/10/74	W. SMITH		REVISED TO ADD PART 30
4	12/10/74	W. SMITH		REVISED TO ADD PART 24
5	12/10/74	W. SMITH		REVISED TO ADD PART 23
6	12/10/74	W. SMITH		REVISED TO ADD PART 21
7	12/10/74	W. SMITH		REVISED TO ADD PART 20
8	12/10/74	W. SMITH		REVISED TO ADD PART 19
9	12/10/74	W. SMITH		REVISED TO ADD PART 18
10	12/10/74	W. SMITH		REVISED TO ADD PART 17
11	12/10/74	W. SMITH		REVISED TO ADD PART 16
12	12/10/74	W. SMITH		REVISED TO ADD PART 15
13	12/10/74	W. SMITH		REVISED TO ADD PART 14
14	12/10/74	W. SMITH		REVISED TO ADD PART 13
15	12/10/74	W. SMITH		REVISED TO ADD PART 12
16	12/10/74	W. SMITH		REVISED TO ADD PART 11
17	12/10/74	W. SMITH		REVISED TO ADD PART 10
18	12/10/74	W. SMITH		REVISED TO ADD PART 9
19	12/10/74	W. SMITH		REVISED TO ADD PART 8
20	12/10/74	W. SMITH		REVISED TO ADD PART 7
21	12/10/74	W. SMITH		REVISED TO ADD PART 6
22	12/10/74	W. SMITH		REVISED TO ADD PART 5
23	12/10/74	W. SMITH		REVISED TO ADD PART 4
24	12/10/74	W. SMITH		REVISED TO ADD PART 3
25	12/10/74	W. SMITH		REVISED TO ADD PART 2
26	12/10/74	W. SMITH		REVISED TO ADD PART 1

IC - FRANCIS
EQUIPMENT CORPORATION
LOGIC ASSEMBLY (TU16)
E-AD-700934-0-0
AD 700935 00

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SIZE CODE NUMBER
KWL TUI6-Ø-WL
REV. F 2

REV. A	REV. B	REV. C	REV. D	REV. E	REV. F
CHG NO. TUI6-00010 J. HESS 5-5-75	CHG NO. TUI6-00013 J. HESS 5-7-75	CHG NO. TUI6-00021 J. HESS 7-10-75	CHG NO. TUI6-00022 H. DRAB 6 Jul 76	CHG NO. TUI6-00027 H. DRAB 2 Aug 76	CHG NO. TUI6-00030 B. Chipman 3 MAR.77

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUI6				

DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE WIRE LIST (TUI6)
<i>D. Schmitt</i>	2/20/74	
CHK'D. <i>D. Schmitt</i>	2/24/74	
ENG. <i>J.P. [unclear]</i>	2-27-74	
PROJ. ENG. <i>[unclear]</i>	4-22-74	
PROD. <i>LA [unclear]</i>	5-31-74	

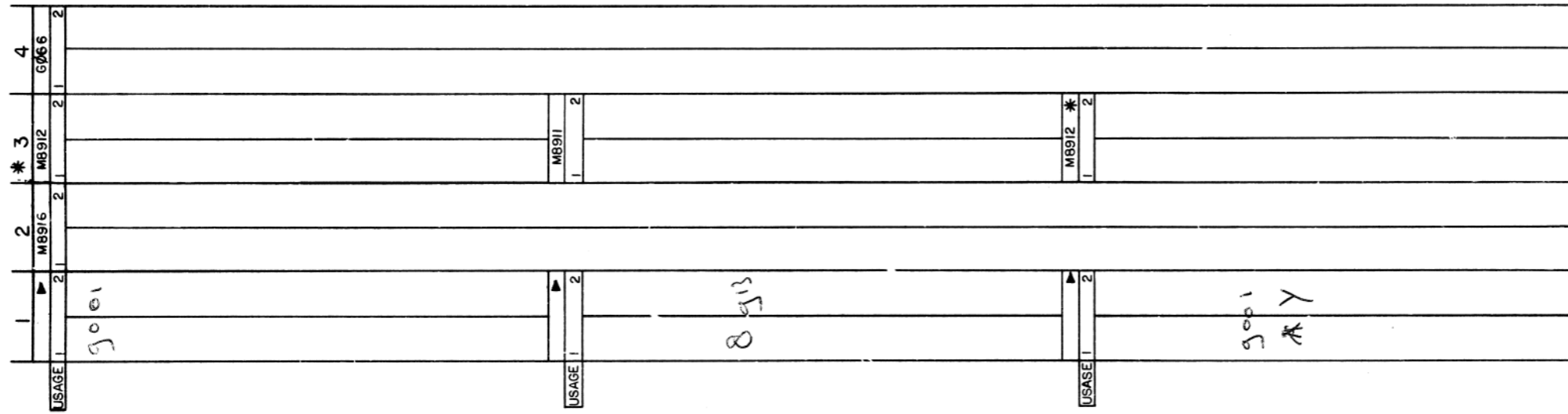
NEXT HIGHER ASSEMBLY	SIZE CODE	NUMBER	REV.
D-AD-7009605-0-0	K WL	TUI6-Ø-WL	F
SCALE <i>1/1</i>	SHEET	OF	

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NOTES:

- USE CABLE SLOTS AS FOLLOWS

	END-OF-BUS	MIDDLE-OF-BUS
A,B	M9001YB	M9001
C,D	M8913YA	M8913
E,F	M9001YC	M9001-YA
- M8912 CAN BE USED AS A TEST FUNCTION GENERATOR IN SLOT 3 A/B. IT DRIVES SERIAL NO AND DRIVE TYPE LINES IN SLOT 3 E/F. THE TUI6 CAN NOT OPERATE ON-LINE WITH M8912 IN SLOT 3 A/B.
- ELECTROSTATIC SHIELD IS POSITIONED BETWEEN THE G066 MODULE AND THE M8911/M8912 MODULES.

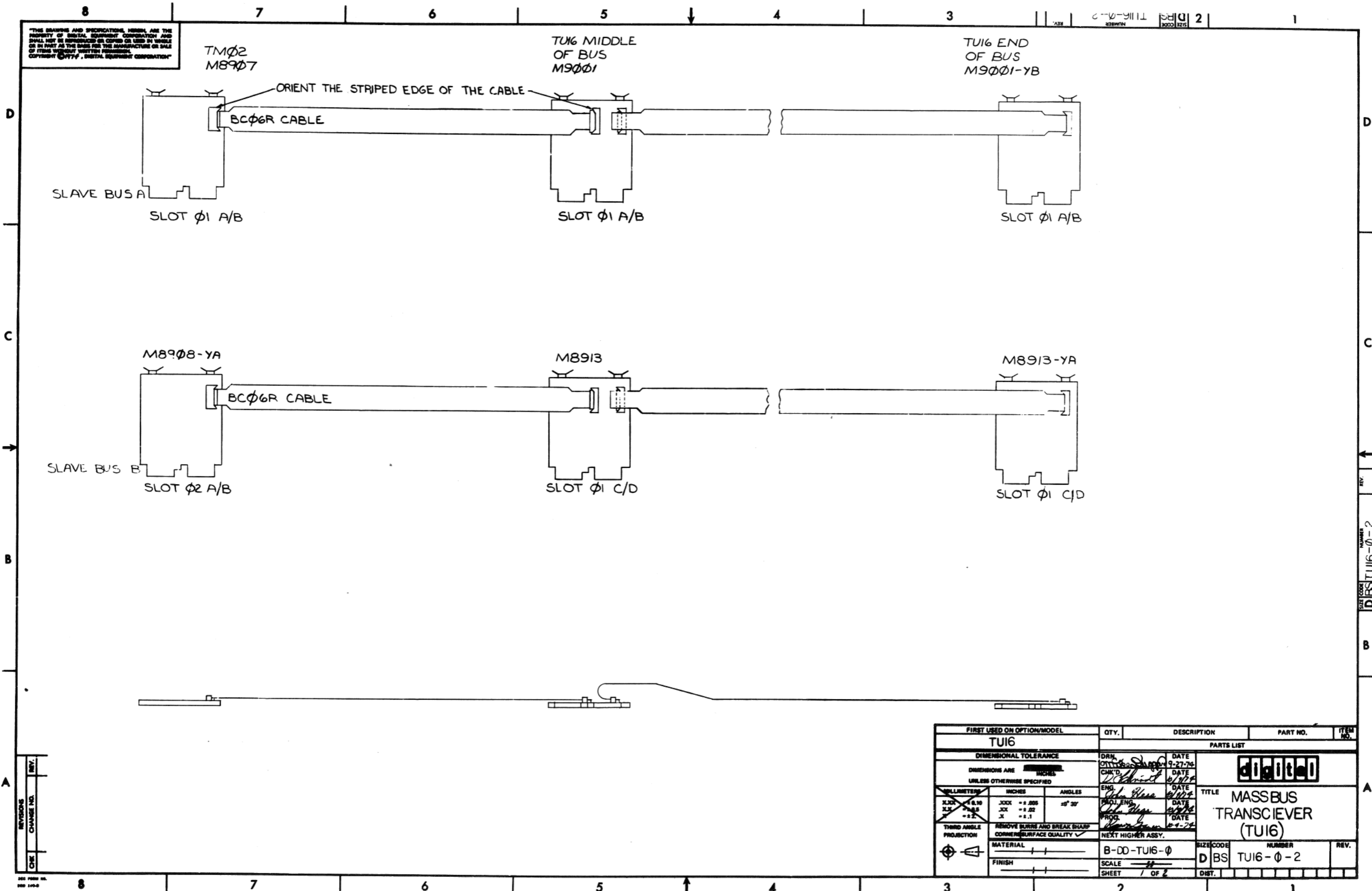


▲ SEE NOTE #1
* SEE NOTE #2

REV.	CHANGE NO.	REVISIONS

FIRST USED ON OPTION/MODEL TE16		QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED		DRN.	DATE		
		CHKD	DATE		
		ENG.	DATE		
		PROJ. ENG.	DATE		
		PROD.	DATE	TITLE MODULE UTILIZATION	
		RC	DATE		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL	FINISH	D-UA-TE16-0-0		SIZE CODE	NUMBER
		SCALE		D MU	TE16-0-MU
		SHEET OF		DIST.	

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REVISES
CHANGE NO. REV.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU16					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED		DRN	DATE	9-27-74	
		CHK'D	DATE	10/1/74	
		ENG.	DATE	10/1/74	
		DRILL ENG.	DATE	10/1/74	
		PROD.	DATE	10-1-74	
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.	
MATERIAL		B-00-TU16-φ		SIZE CODE	NUMBER
FINISH		SCALE		D BS	TU16-φ-2
		SHEET 1 OF 2		DIST.	

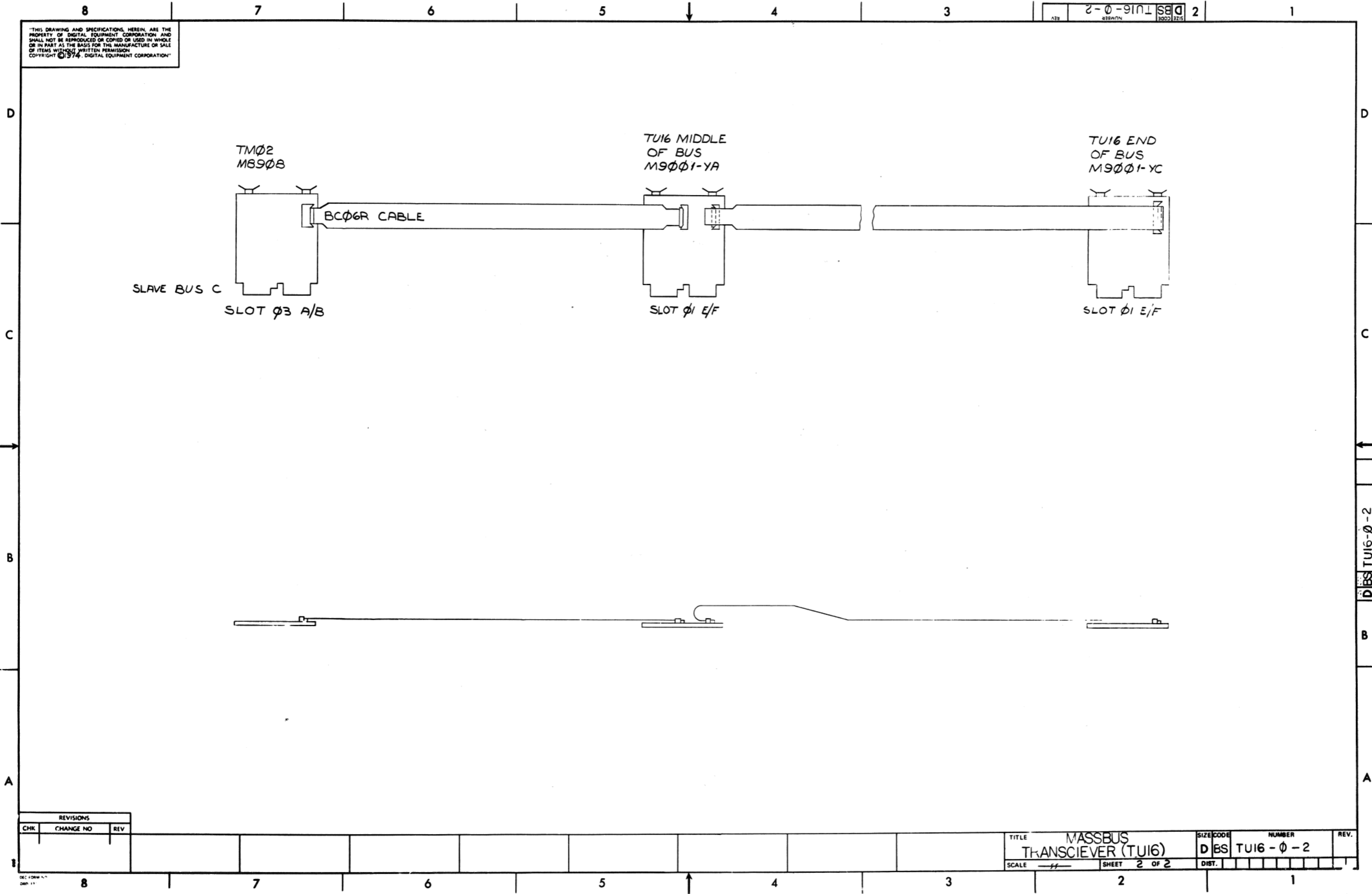
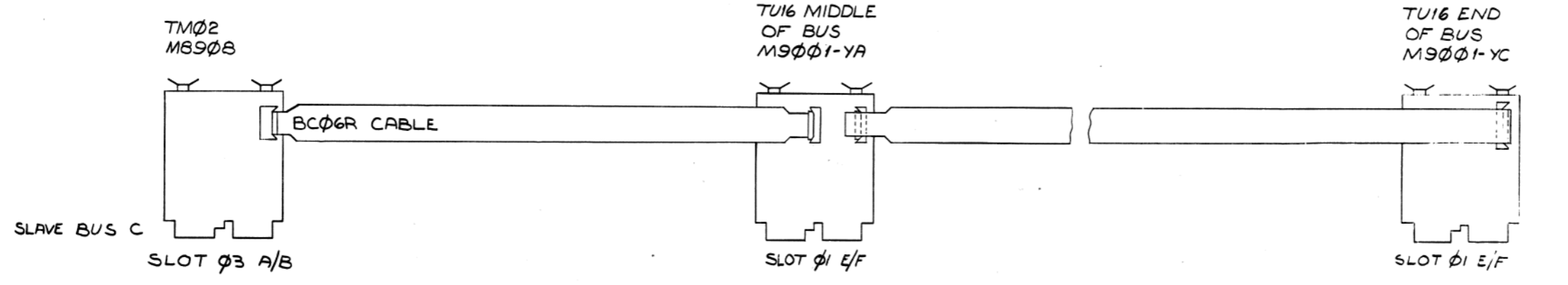


TITLE
MASSBUS
TRANSCIEVER
(TU16)

REV. NUMBER
D BS TU16-φ-2

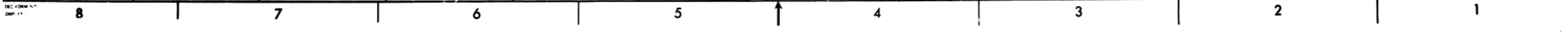
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SIZE CODE NUMBER
DES TUI6-0-2 2



REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASSBUS TRANSCIEVER (TUI6)	SIZE CODE	DES	NUMBER	TUI6-0-2	REV.	
SCALE		SHEET	2	OF	2	DIST.	

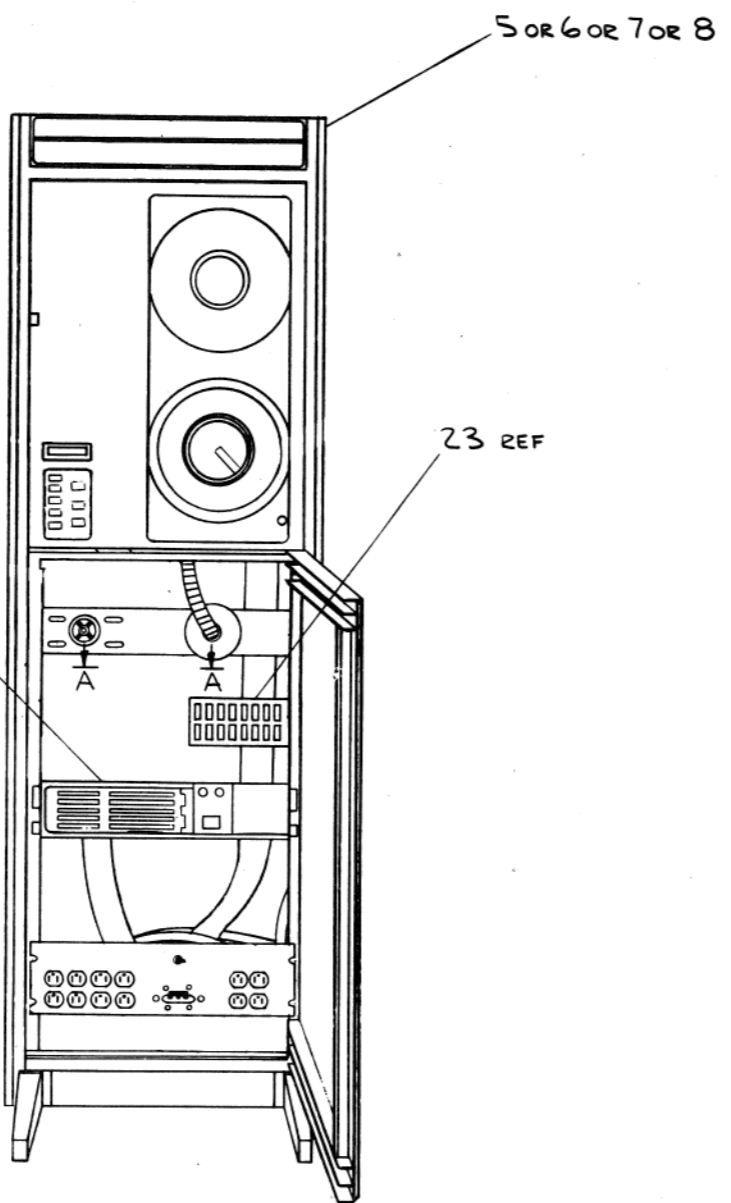


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0-0-9131 M10 2

NUMBER	VARIATION		VOLTAGE
	DESCRIPTION		
TE16-EA	TE16-EE	TM02-FA	115V, 60HZ
TE16-EB	TE16-EF	TM02-FB	230V, 60HZ
TE16-EC	TE16-EH	TM02-FA	115V, 50HZ
TE16-ED	TE16-EJ	TM02-FB	230V, 50HZ
TE16-EK	TE16-EE	TM02-FC	115V, 60HZ
TE16-EL	TE16-EF	TM02-FD	230V, 60HZ
TE16-EM	TE16-EH	TM02-FC	115V, 50HZ
TE16-EN	TE16-EJ	TM02-FD	230V, 60HZ
TE16-AA	TE16-AE	TM02-FA	115V, 60HZ
TE16-AB	TE16-AF	TM02-FB	230V, 60HZ
TE16-AC	TE16-AH	TM02-FA	115V, 50HZ
TE16-AD	TE16-AJ	TM02-FB	230V, 50HZ

- NOTES:**
1. INFORMATION FOR CONNECTING THE CABLES TO THE TAPE TRANSPORT - REFER TO D-MU-TU16-0-MU.
 2. USE BLACK TUBING (ITEM #20) TO COVER 36.00 GND STRAP. USE TWO TIE WRAPS (ITEM #19) TO SECURE TUBING TO STRAP.
 3. GND STRAP, JUMPER FROM TM02 LOGIC BOX TO BE CONNECTED TO PWR SUPPLY TRANS-CAP ASSY.
 4. FOR MTG INFO SEE SHT 4.



FRONT VIEW

REV	CHANGE NO	BY
1	1	H. DRAB

FORM NO. DC

OFF SHEET PARTS LIST REFER TO: PL-TE16-0-0

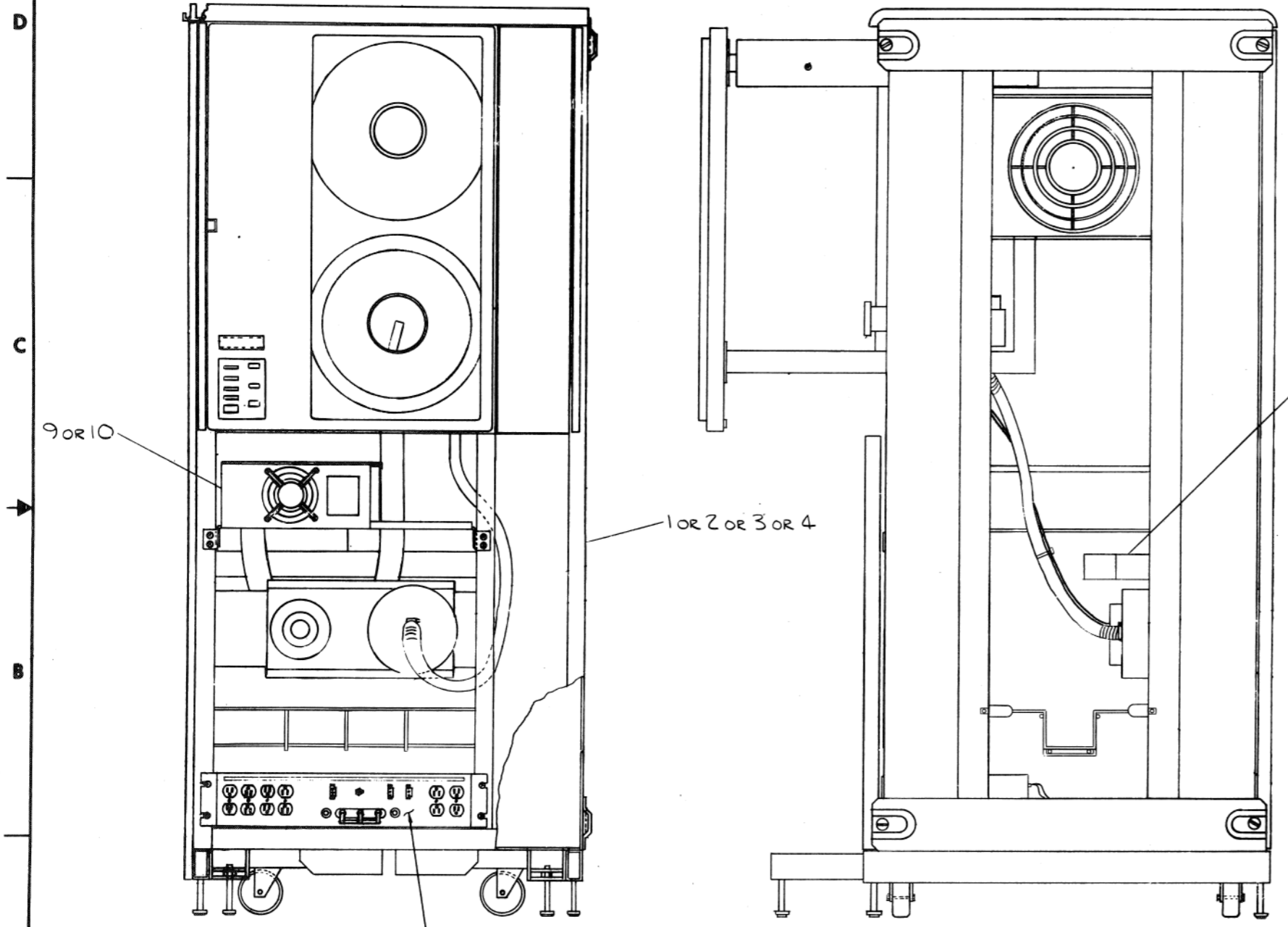
DESCRIPTION	DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
±0° 30'	(CHECK ONE)	OVER 0 TO 12
SURFACE QUALITY	MEDIUM	OVER 12 TO 40.0
IN	PREFERRED	OVER 40.0 TO 80.0
MICROINCHES		±.004 ±.008 ±.012 ±.016 ±.025 ±.04 ±.062 ±.1

THIRD ANGLE PROJECTION	DRN.	FIRST USED ON	TE16
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D	TITLE	MAG TAPE DRIVE (TE16)
DO NOT SCALE DWG	ENG.	PROJ. ENG.	
MATERIAL	B-DD-TE16-0	SIZE	CODE
FINISH	SCALE	D	NUMBER
	SHEET	1	REV.

TEIG-0-0-9131M 2

NOTES:
 1. FOR INFORMATION ON SLAVE UNITS TEIG-AE, TEIG-AF, TEIG-AH & TEIG-AJ SEE D-UA-TEIG-A-0 AND C-PL-TEIG-A-0.

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LOCATION OF TINNEMAN NUTS (ITEM #14)

LOCATE ALL NUTS BY COUNTING HOLES UP FROM BOTTOM OF CABINET UPRIGHT

FRONT HOLE NUMBERS		REAR HOLE NUMBERS	
RIGHT SIDE:	31, 32*	RIGHT SIDE:	25*
LEFT SIDE:	31, 32*	LEFT SIDE:	25*

* USED WHEN INSTALLING TMØ2 AND H74Ø-DA (REF ONLY)

CAUTION
 THIS SHEET IS FOR THE TEIG IN THE H95ØØ SERIES CAB

REV. _____
 CHG. _____
 CHK. _____

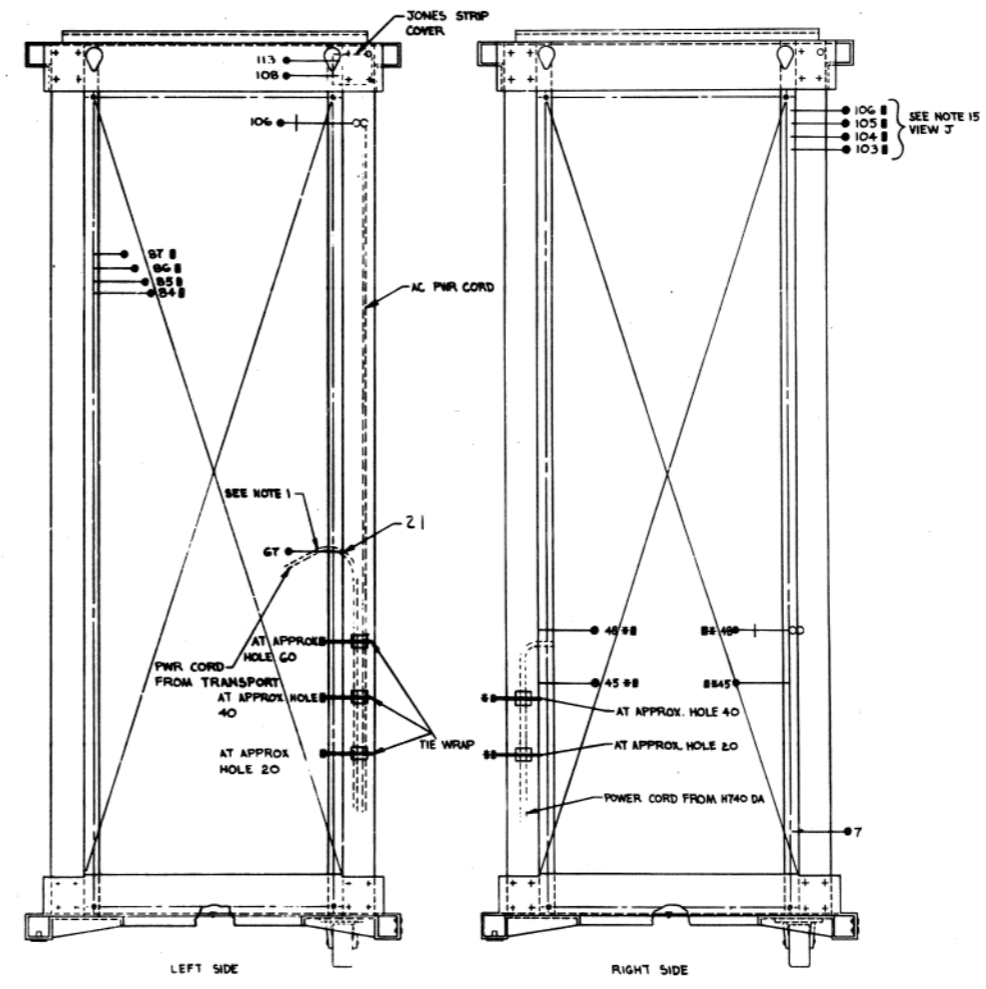
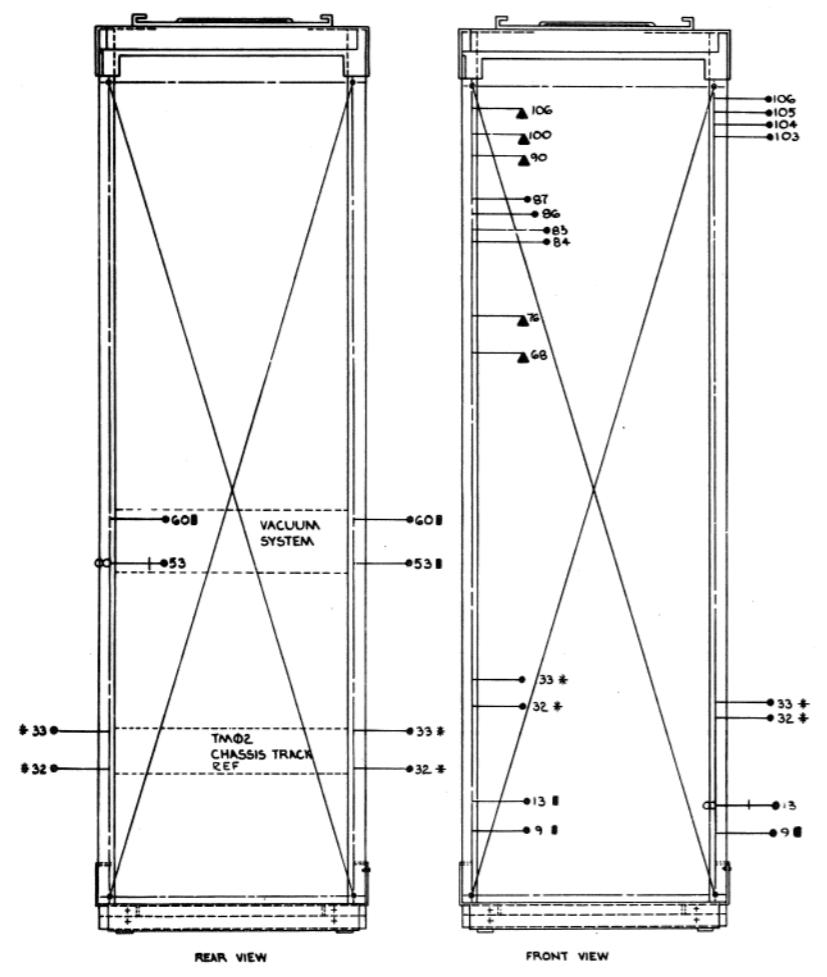
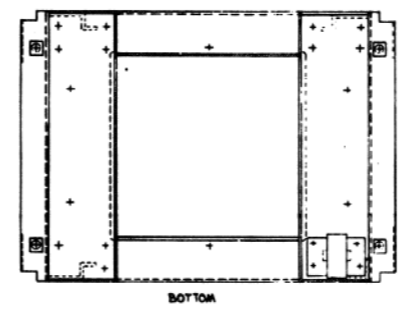
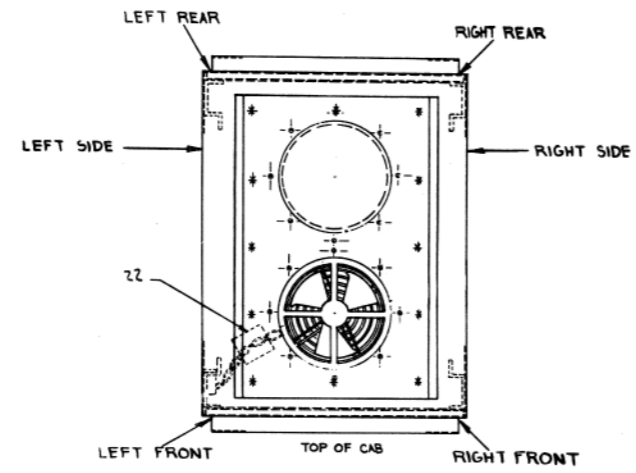
DESCRIPTION	DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES MØ 2Ø	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN	(CHECK ONE)	OVER 0 TO 0.25
QUANTITY & VARIATION	MEDIUM	0.25 TO 1.25
THIRD ANGLE PROJECTION	PREFERRED	1.25 TO 4.0
REMOVE BURRS AND BREAK SHARP CORNERS	1.012	4.0 TO 12.0
DO NOT SCALE DWG	1.016	12.0 TO 48.0
MATERIAL	1.024	48.0 TO 80.0
FINISH	1.031	80.0 TO 10.1
DRAWN	CHK'D	FIRST USED ON
ENG	PROJ. ENG	TEIG
PROD. ENG	PROD. P.	TITLE
NEXT HIGHER ASSY.		MAG TAPE DRIVE (TEIG)
		SIZE CODE
		D UA
		NUMBER
		TEIG-0-0
		REV.
		A
		DIST.

HARDWARE AID PRINT

NOTES:

1. USE .375 CLAMP (ITEM #2) FOR POWER CORD. FROM TRANSPORT USE FLAT WASHER.
 2. USE .625 CLAMP FOR BGI POWER CORD, USE FLAT WASHER.
- THIS SIGN INDICATES WHERE TINNEMAN CLIP SHOULD BE COUNTING FROM BOTTOM OF CAB
- INDICATES USE OF SCREW & KEP-NUT FOR GROUNDING PURPOSES
- INDICATES CABLE TIE MOUNT 9078GT FOR TIE WRAP
- * THIS SIGN INDICATES USED ONLY WHEN INSTALLING A TM02
- USE FLAT WASHER #10
- USE KEP-NUT #10 32

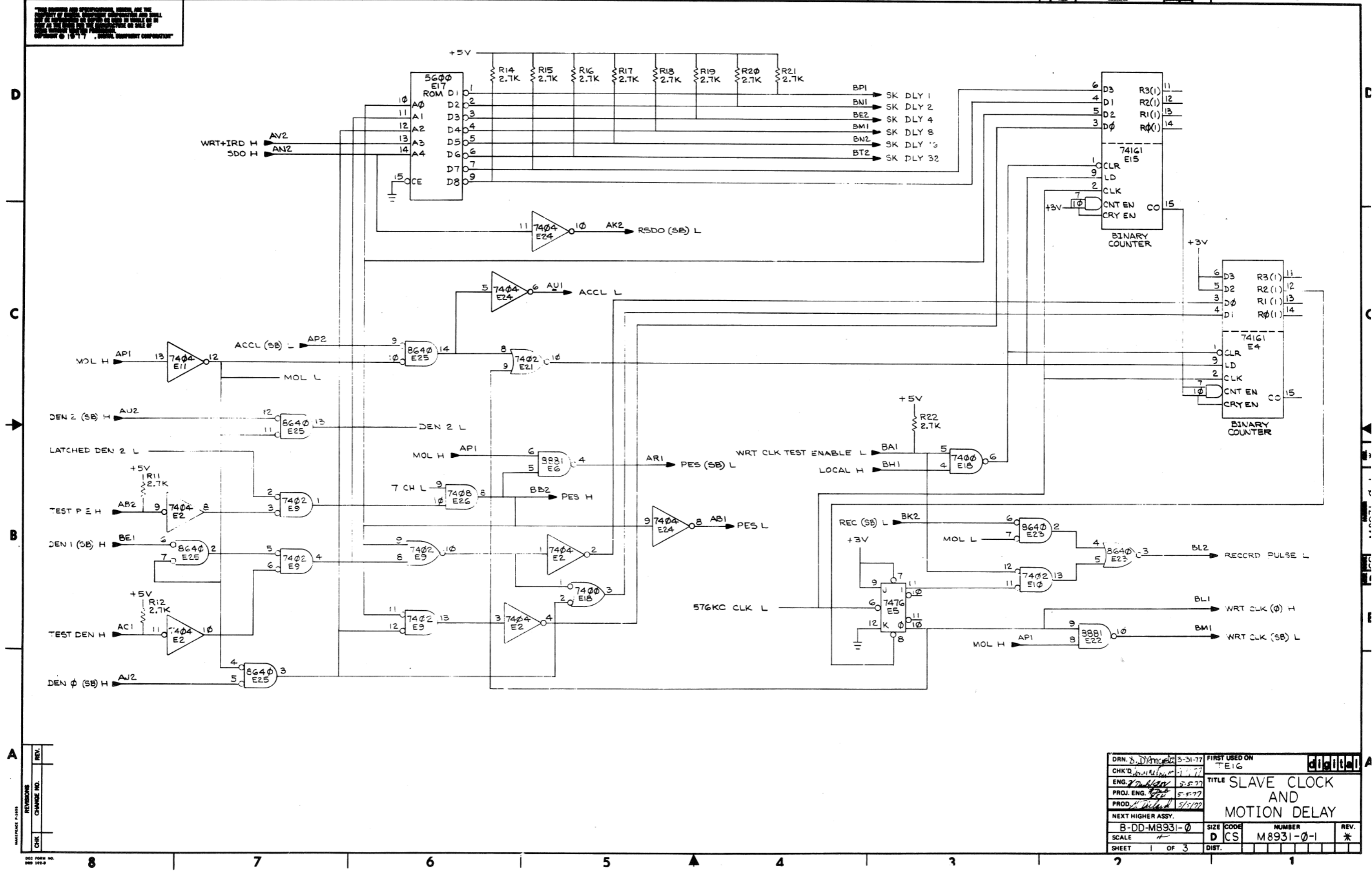
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REVISIONS		
CHK	CHANGE NO	REV.

TITLE	SIZE CODE	NUMBER	REV.
MAG TAPE DRIVE (TE16)	DUA	TE16-0-0	
SCALE	SHEET	DIST.	
	4 OF 4		

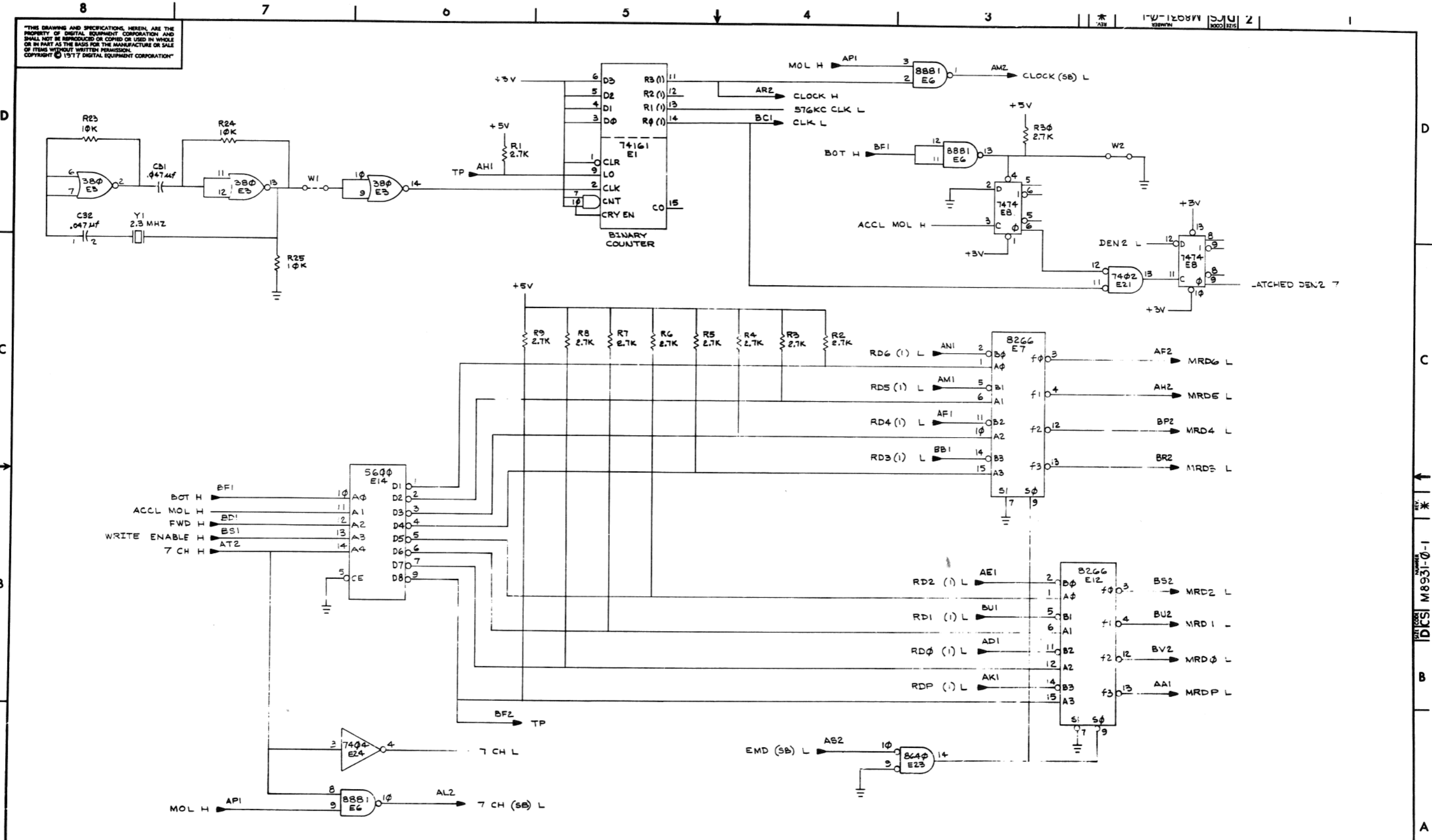
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REV.	
REVISED	
CHANGE NO.	
CHK	

DRN. <i>S. D'Amico</i>	3-31-77	FIRST USED ON	TEIG
CHK'D <i>W. Miller</i>	5-5-77	TITLE	SLAVE CLOCK AND MOTION DELAY
PROJ. ENG. <i>W. Miller</i>	5-5-77	SCALE	D CS
PROD. <i>W. Miller</i>	5/5/77	SHEET	1 OF 3
NEXT HIGHER ASSY.		SIZE	CODE
B-DD-M8931-0		NUMBER	M8931-0-1
		REV.	*

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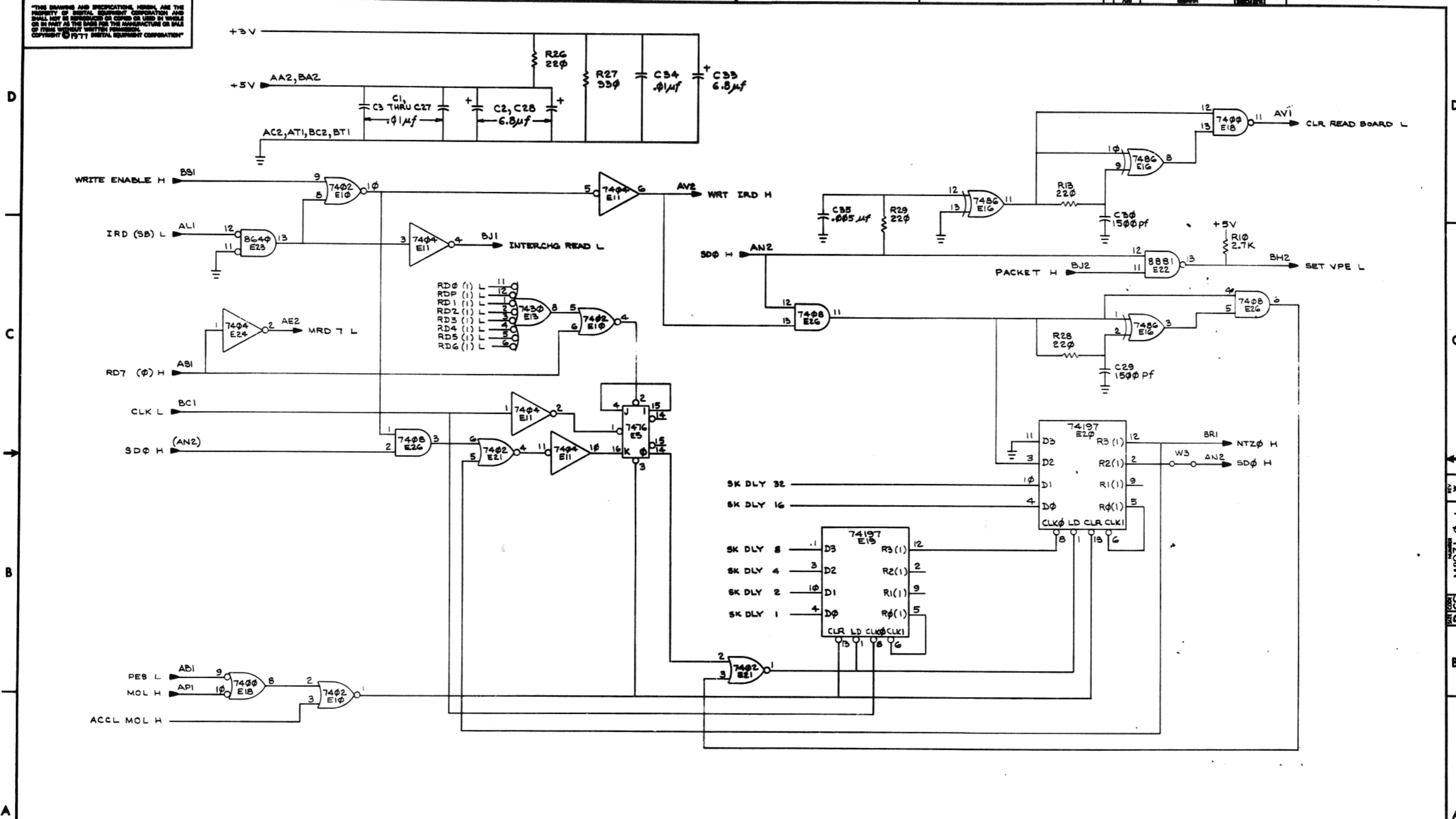


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SLAVE CLOCK AND MOTION DELAY
 SCALE SHEET 2 OF 3
 SIZE CODE DCS
 NUMBER M8931-0-1
 REV. *

REV. *
M8931-0-1

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REVISIONS		
CHK	CHANGE NO.	REV.