

**digital**

**TU16**  
**Engineering Drawings**  
**Digital Equipment Corporation**

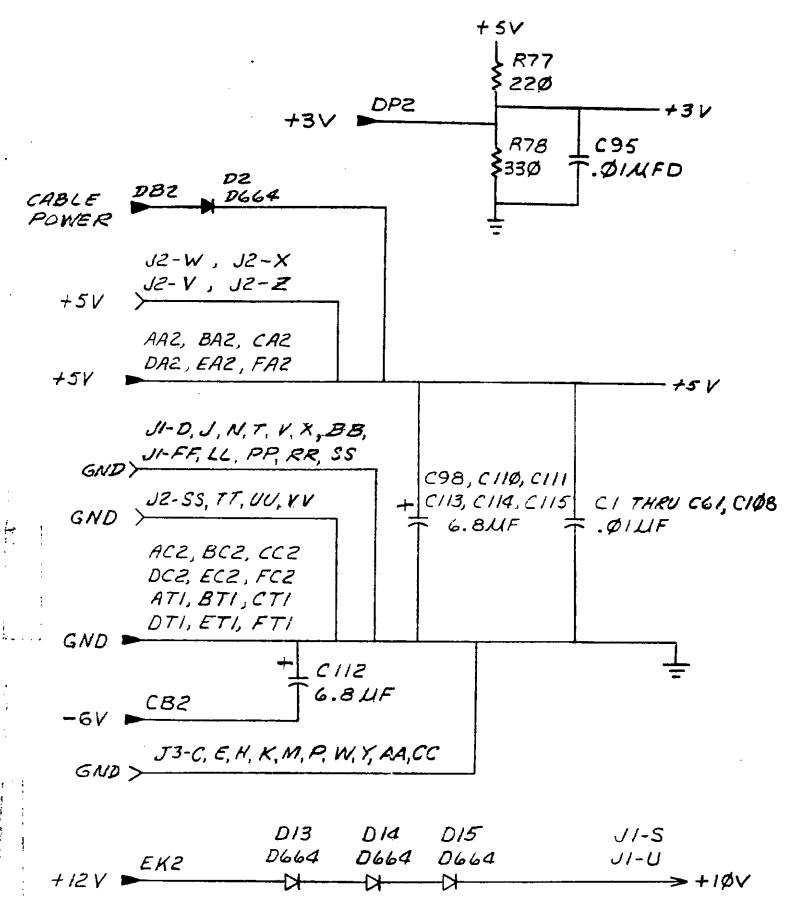
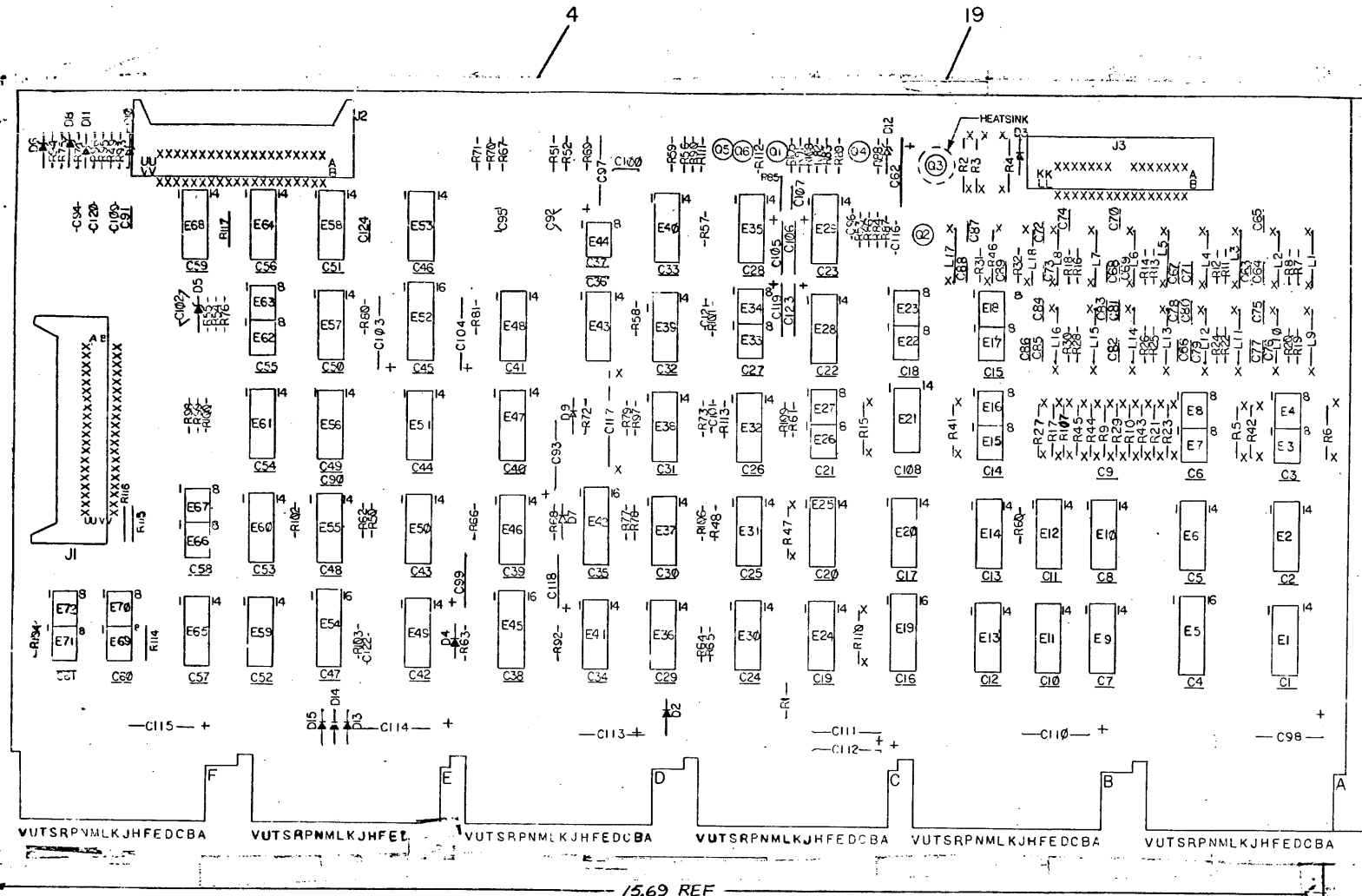
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**NOTES:**



8640	1	8
75452	4	8
74123	8	16
8266	8	16
7473	11	4
384	1	8
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

DATE	11-9-73
CHK'D	J. Hess
DATE	2/11/74
CHK'D	J. Hess
DATE	3/1/74
CHK'D	J. Hess
DATE	2/1/74
CHK'D	J. Hess
DATE	9-12-73
CHK'D	J. Hess
DATE	11/19/74
CHK'D	J. Hess

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	TU16	ETCH BOARD REV E		
SEMICONDUCTOR CONVERSION CHART				
DEC. NO.	EIA NO.	DEC. NO.	EIA NO.	
SCALE SHEET OF 9				
DISTRIBUTION				



LOGIC AND WRITE BOARD (LAWI)

SIZE CODE: DCS M8910-0-1

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NOTES:  
 1. FOR PART NO. 1910645-01 - QTY 2 754525 PER CARRIER.

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M8910-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M8910-0-5	2
REF		MODULE ECO HISTORY	B-MH-M8910-0-6	3
1		ETCHED CIRCUIT BOARD	501047D	4
1	C96	CAP 220PF 100V 5% DM	1000021	5
1	C122	CAP 330PF 100V 5% DM	1000023	6
1	C121	CAP 1000PF 250V 20% DISC	1000043	7
6	C99, C105, C106, C123, C119, C118	CAP 3.9UF 10% 10V TANT	1000064	8
3	C97, C93, C104	CAP 39UF 10% 10V TANT	1000076	9
87	C1-C61, C65-C68, C63, C70, C72, C74, C75, C77, C78, C80, C81, C83, C84, C86, C87, C89, C91, C94, C95, C101, C102, C108, C109, C120	CAP .01UF, 100V DISC	1001610-01	10
1	C103	CAP 15UF 20V 10% TANT	1004812	11
2	C100, C124	CAP .05UF, 25V, 20% DISC	1001774	12
1	C62	CAP 22UF, 35V, 20% TANT	1002433	13
1	C117	CAP 330UF 20% TANT	1009808	14
7	C98, C110 THRU C115	CAP 6.8UF 10% 35V TANT	1005306	15
11	C64, C69, C71, C73, C76, C79, C82, C85, C88, C107, C116	CAP .5000PF 100V 20% DISC	1001765	16
1	C90	CAP 470PF 100V 5% DM	1000024	17
1	C92	CAP 100PF 100V 5% DM	1000016	18
1		HEAT SINK	1210001	19
7	D7, D9, D2, D4, D13, D14, D15	DIODE D664	1100114	20
1	D12	DIODE IN748A 3.9V	1100122	21
1	D3	DIODE D670-1	1102162	22
5	D5, D6, D8, D10, D11	DIODE IN746A 3.3V	1104860	23
2	J1, J2	CONN 40 PIN RT. ANGLE HDR	1209941	24
1	J3	CONN 28 PIN	1210067-2	25
1	R4	RES 220 OHM 1/2W 5%	1300274	26
4	R66, R77, R101 & R112	RES 220 OHM 1/4W 5%	1300271	27
1	R78	RES 330 OHM 1/4W 5%	1300295	28
10	R3, R5, R9, R15, R21, R27, R41, R42, R44 & R46	RES 470 OHM 1/2W 5%	1300315	29
34	R48-R50, R54-R61, R70, R71, R74-R76, R79, R89, R90, R93-R100, R102, R104, R106, R109, R111, R113, R117	RES 1K 1/4W 5%	1300365	30
2	R86, R108	RES 1.5K 1/4W 5%	1300398	31
2	R64, R67	RES 3.9K 1/4W 5%	1300444	32
2	R52, R53	RES 4.7K 1/4W 5%	1300447	33
2	R63, R68	RES 10K 1/4W 5%	1300479	34
2	R69, R92	RES 12K 1/4W 5%	1300488	35
3	R73, R82, R84	RES 1.2K 1/4W 5%	1301320	36
2	R83, R85	RES .6.8K 1/4W 5%	1301423	37
1	R51,	RES 680 OHM 1/4 5%	1301424	38
1	R72	RES 47K 1/4W 5%	1302177	39
18	R7, R8, R11 THRU R14, R16, R18, R19, R20, R22, R24, R25, R26, R28, R30, R31, R32	RES 39 OHM 1/4W 5%	1302377	40
2	R87, R105	RES 27K 1/4W 5%	1305346	41
4	R62, R103, R88, R91	RES 100 OHM 1/4W 5%	1300229	42
1	R2	RES 750 OHM 1/2W 5%	1300354	43
1	R80	RES 20K 1/4W 5%	1302391	44
1	R110	RES 47 OHM 1/2W 5%	1301695	45

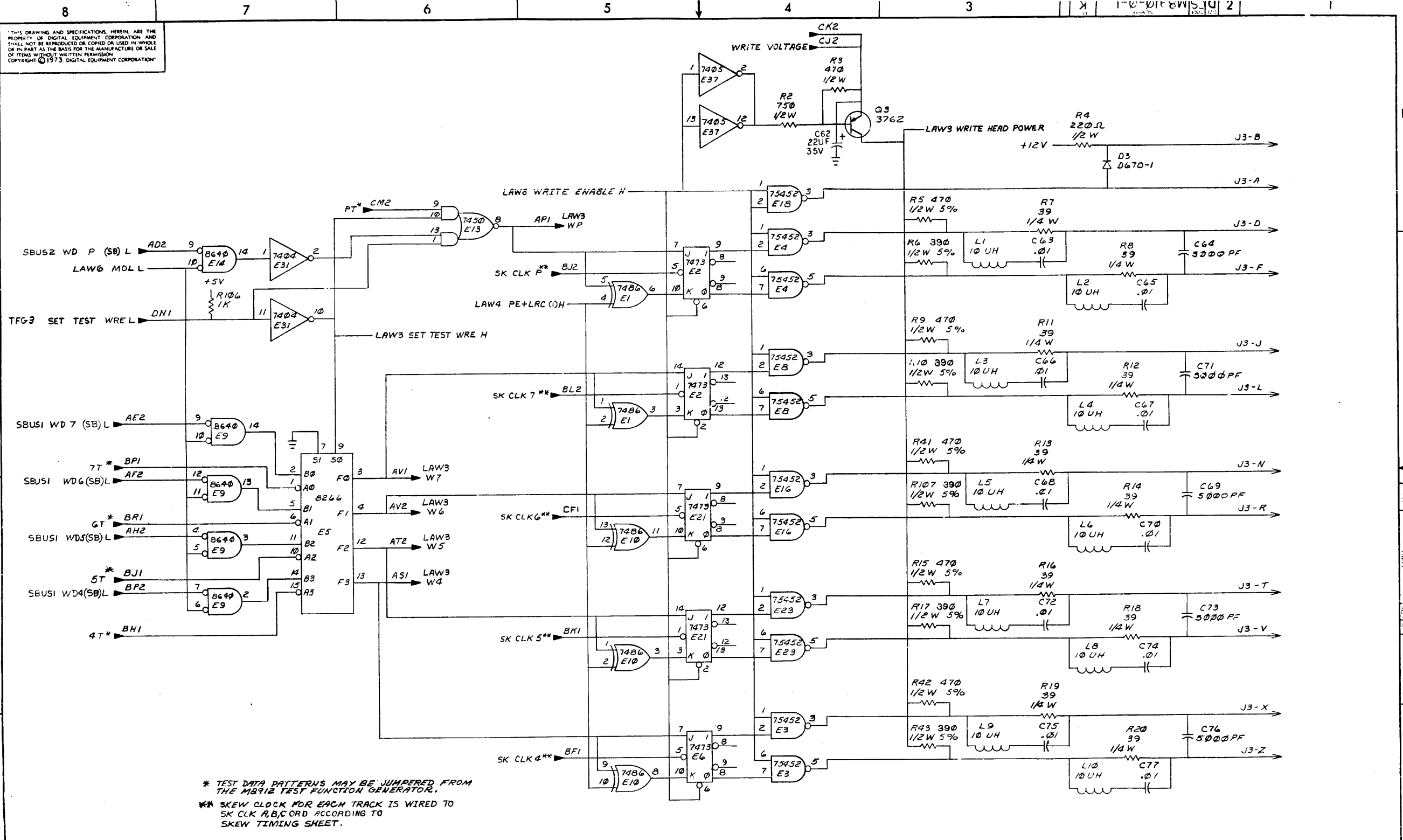
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
2	Q1, Q2	TRANSISTOR 3639B	1502762	46
3	Q4, Q5, Q6	TRANSISTOR 6531B	1509338	47
1	Q3	TRANSISTOR 3762	1509649	48
18	L1 THRU L18	INDUCTOR, FIXED, 10UH, 10%	1609477	49
7	E11, E51, E53, E59, E60, E65, E47	I.C. 7474	1905547	50
4	E28, E41, E58, E68	I.C. 7400	1905575	51
1	E55	I.C. 7410	1905576	52
1	E64	I.C. 7420	1905577	53
1	E44	I.C. 75452	1910645-00	54
5	E2, E6, E20, E21, E25	I.C. 7473	1905587	55
1	E61	I.C. 7401	1905590	56
2	E43, E57	I.C. 7402	1909004	57
1	E29	I.C. 384	1909486	58
3	E31, E35, E40	I.C. 7404	1909686	59
1	E59	I.C. 8242	1909712	60
2	E37, E38	I.C. 7405	1909930	61
3	E5, E19, E54	I.C. 8266	1909934	62
3	E1, E10, E24	I.C. 7486	1910011	63
1	E12	I.C. 74164	1910041	64
3	E46, E49, E32	I.C. 7408	1910155	65
3	E42, E45, E52	I.C. 74123	1910436	66
11	(E3, E4, E7, E8, E15, E10, E17, E18, E22, E23, E26, E27, E33, E34, E62, E63, E66, E67, E69, E70, E71, E72)	I.C. 75452	1910645-01	67
1	E50	I.C. 7427	1910878	68
6	E9, E14, E30, E36, E48, E56	I.C. 8640	1911469	69
1	E13	I.C. 7450	1905580	70
1		HANDLE ASSY	1210711-02	71
12		EYELET	9006732	72
AR		WIRE, SOLID, INSULATED	9105740-55	73
AR		WIRE, SOLID, INSULATED	9107688-55	74
3	R114, R115 & R116	RES. 300 OHM, 1/4W, 5%	1301425	75
1	R65	RES. 68 OHM, 1/4W, 5%	1300219	76
9	R6, R10, R17, R23, R29, R43, R45, R47 & R107	RES 390 OHM, 1/2W, 5%	1300308	77
1	R81	RES 22K 1/4W 5%	1301808	78

SEE NOTE 1

REVISIONS		
CHK	CHANGE NO	REV

TITLE	LOGIC AND WRITE BOARD (LAW2)	SIZE/CODE	DCS	NUMBER	M8910-0-1	REV	K
SCALE	1/1	SHEET	2	OF	3	DIST.	

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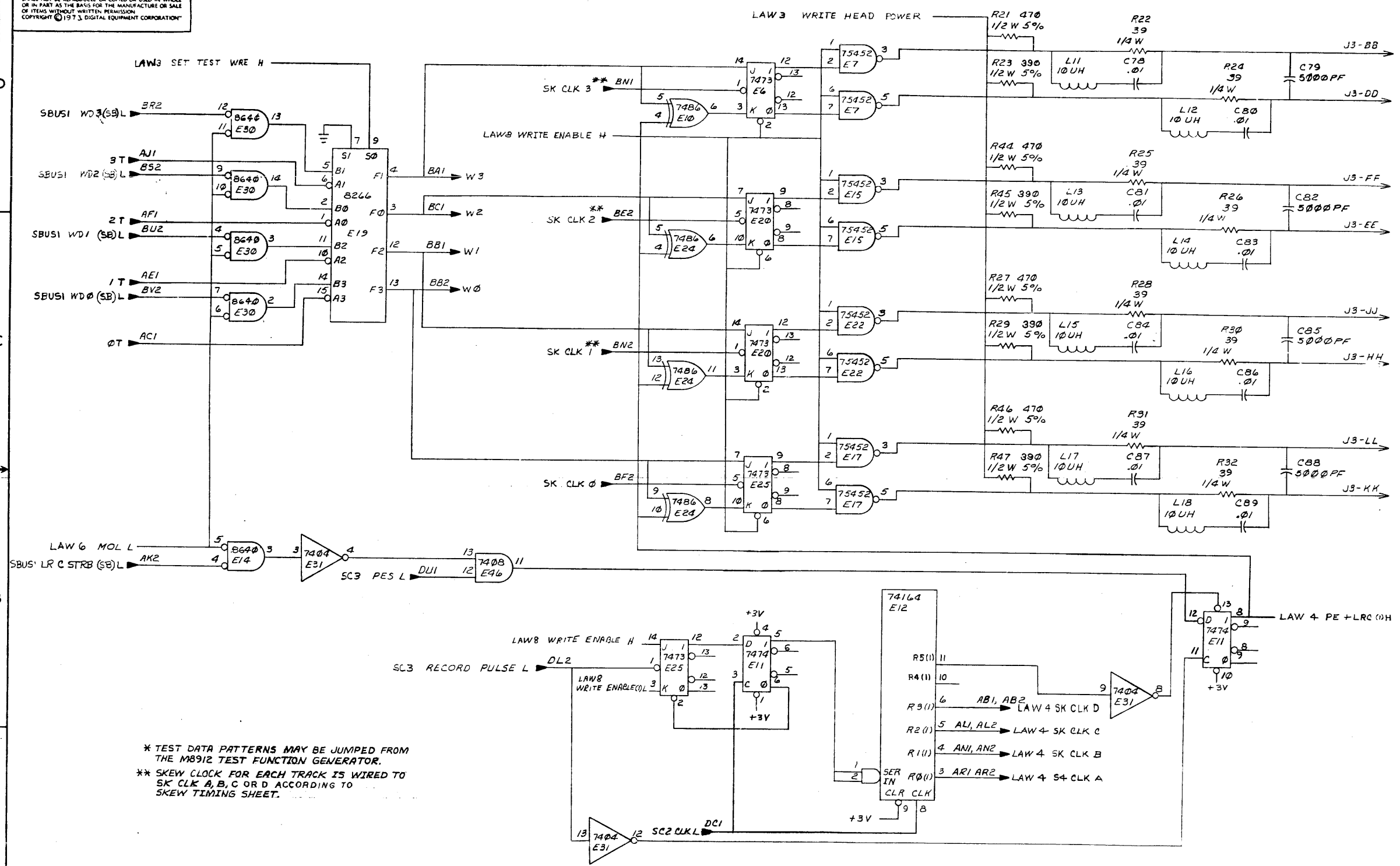


\* TEST DATA PATTERNS MAY BE JUMPED FROM THE M8912 TEST FUNCTION GENERATOR.  
 \*\* SKEW CLOCK FOR EACH TRACK IS WIRED TO SK CLK A,B,C OR D ACCORDING TO SKEW TIMING SHEET.

REVISIONS		
CHK	CHANGE NO	REV

TITLE	LOGIC AND WRITE BOARD (LAW3)	SIZE CODE	D CS M8910-0-1	NUMBER		REV	K
SCALE		SHEET	3 OF 9	DIST.			

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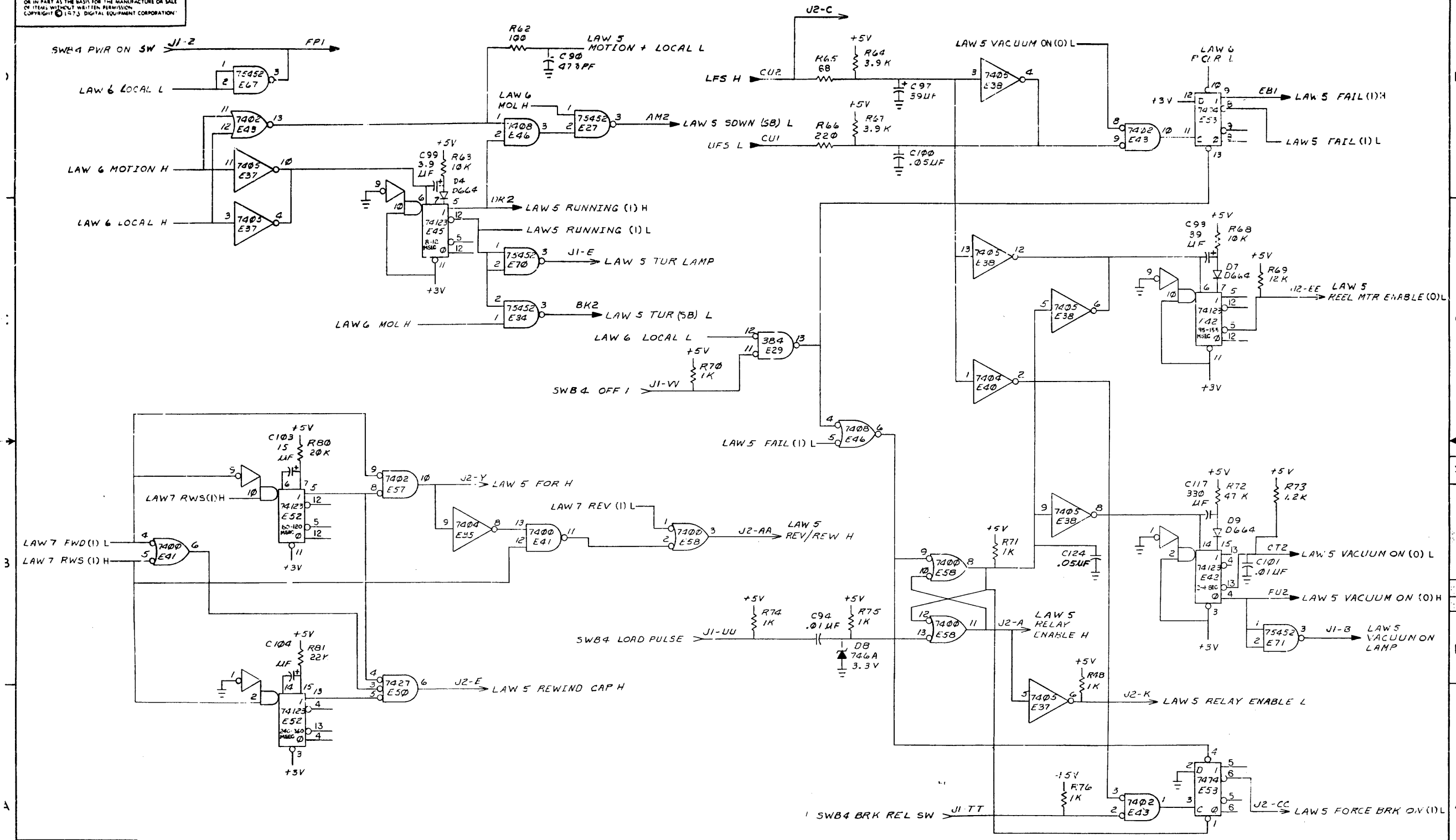


\* TEST DATA PATTERNS MAY BE JUMPED FROM THE M8912 TEST FUNCTION GENERATOR.  
 \*\* SKEW CLOCK FOR EACH TRACK IS WIRED TO SK CLK A, B, C OR D ACCORDING TO SKEW TIMING SHEET.

REVISIONS		
CHK	CHANGE NO	REV

TITLE LOGIC AND WRITE BOARD (LAW4) SIZE CODE DCS NUMBER M8910-0-1 REV. K  
 SCALE SHEET 4 OF 9 DIST.

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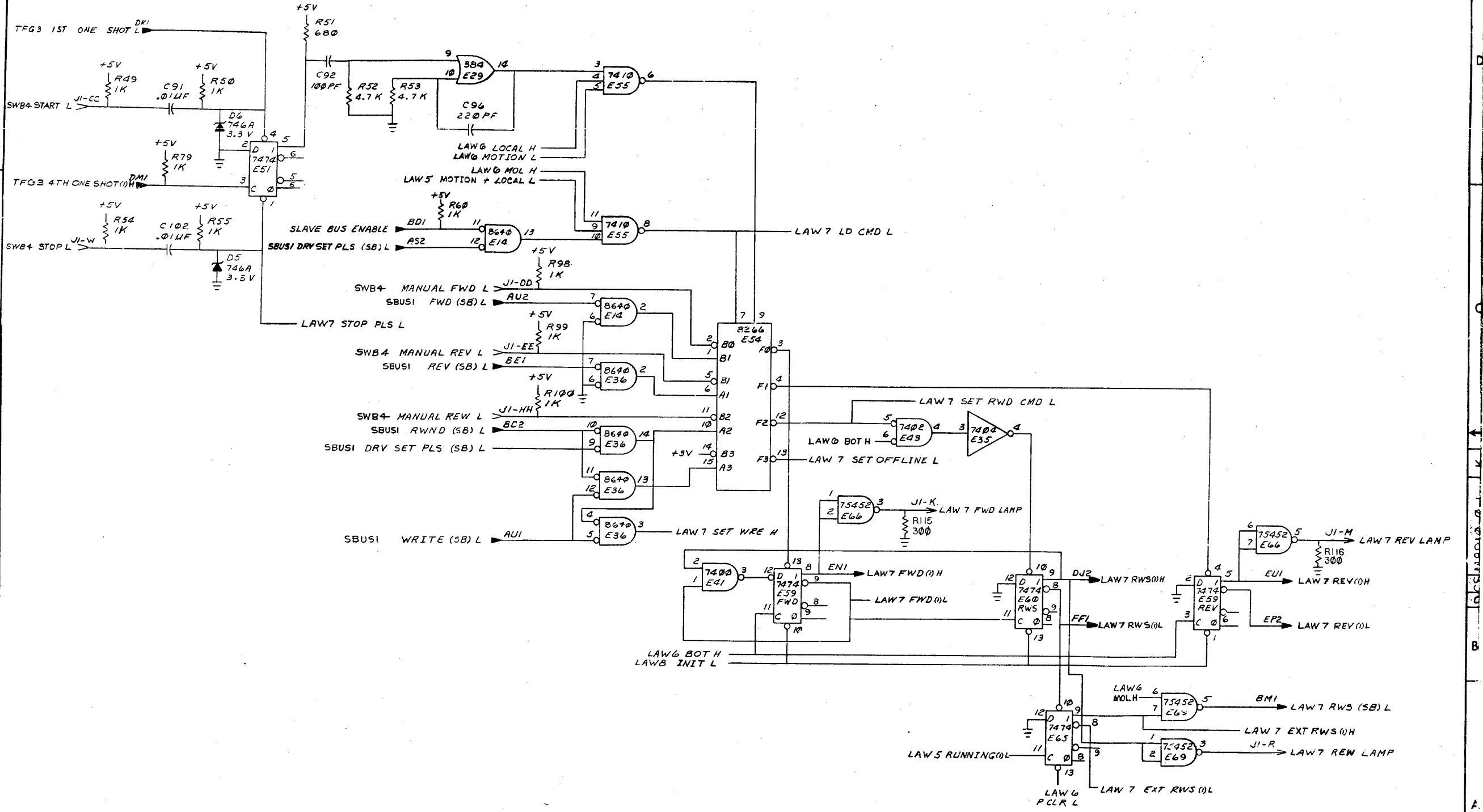


REVISIONS		
CHK	CHANGE NO	REV

TITLE: LOGIC AND WRITE BOARD (LAW 5) SIZE: CODE: NUMBLR: REV: K  
 SCALE: SHEET 5 OF 9 DIS: 1

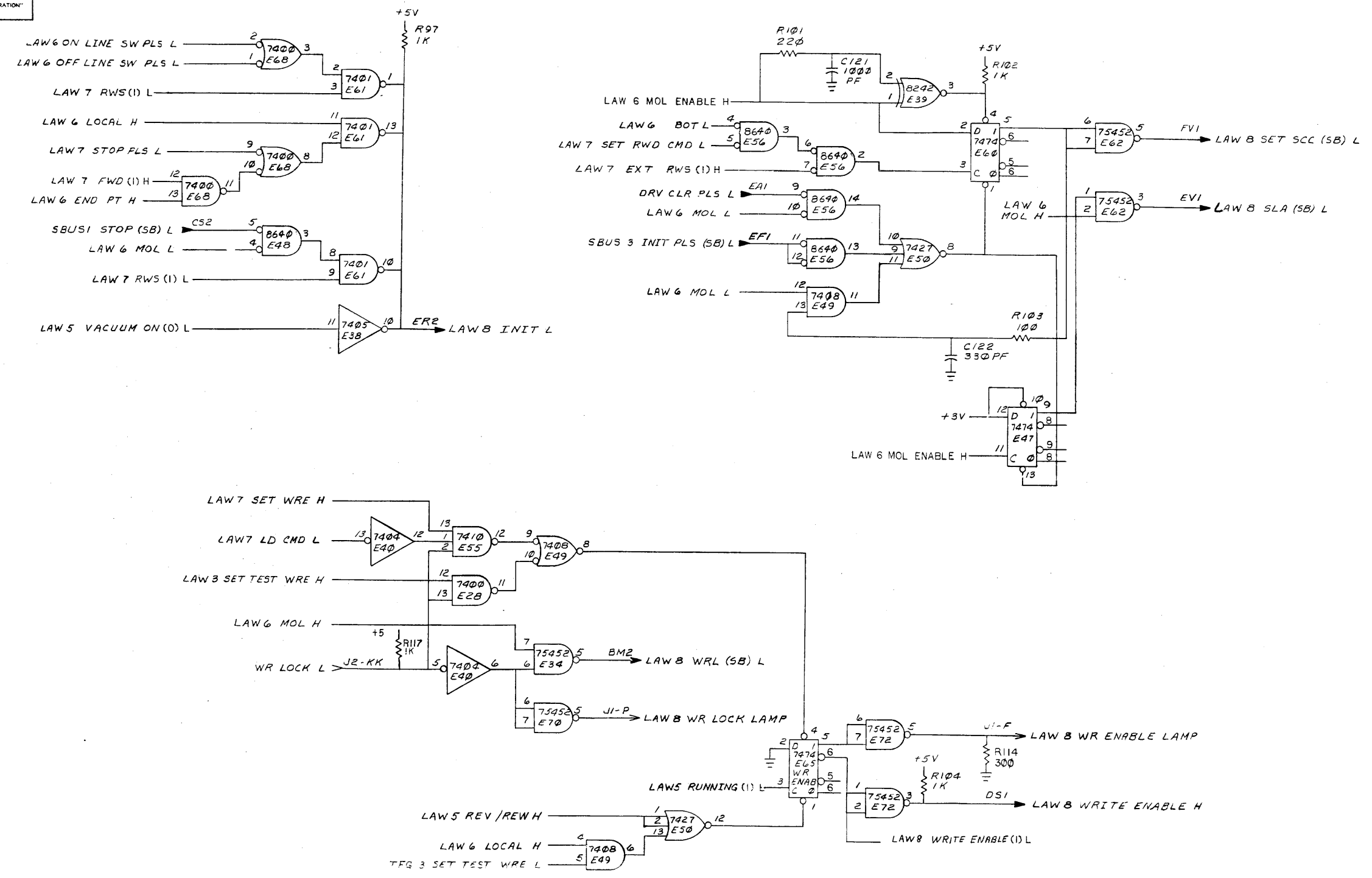


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REVISIONS		
CHK	CHANGE NO	REV

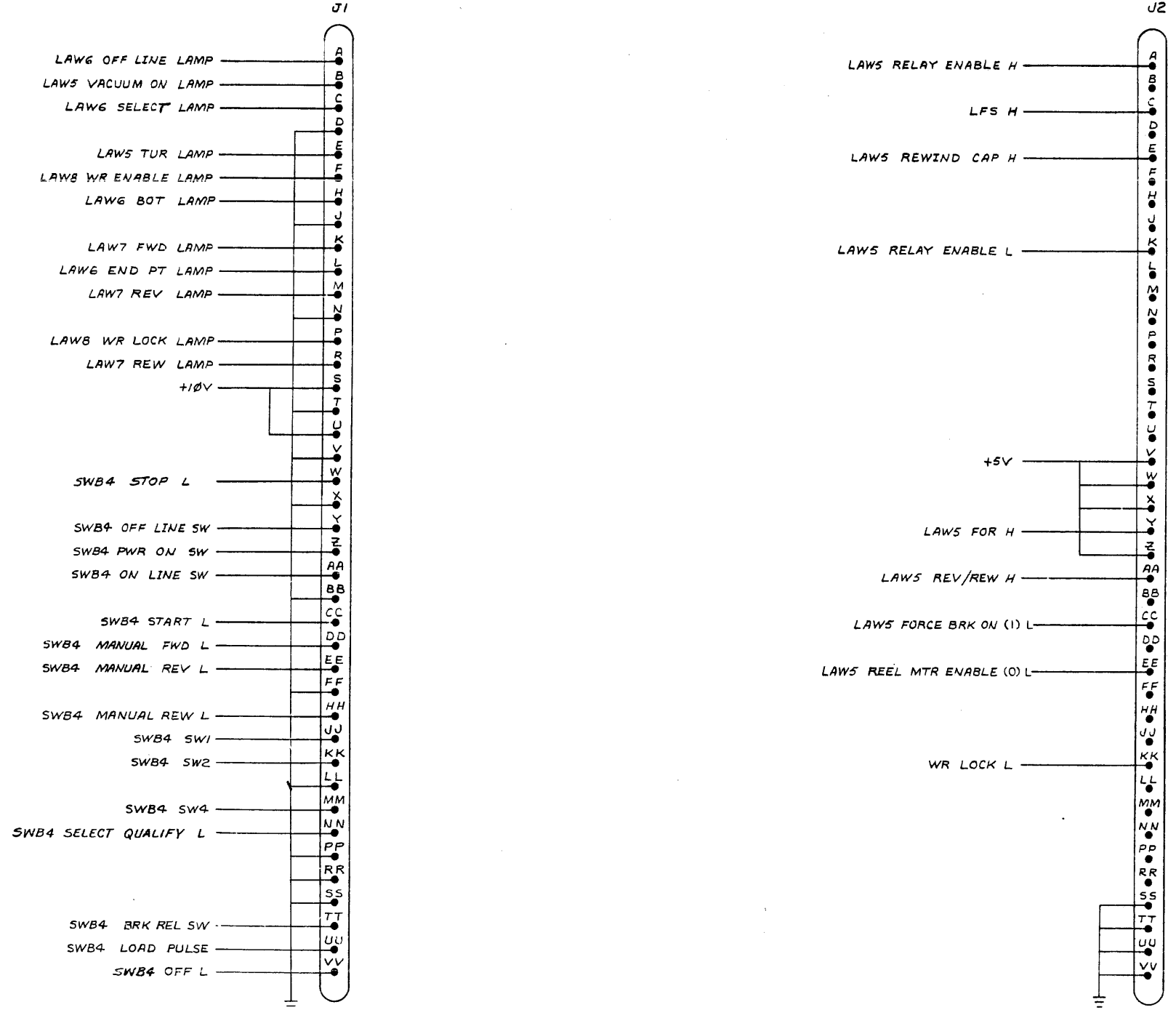
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REVISIONS		
CHK	CHANGE NO	REV

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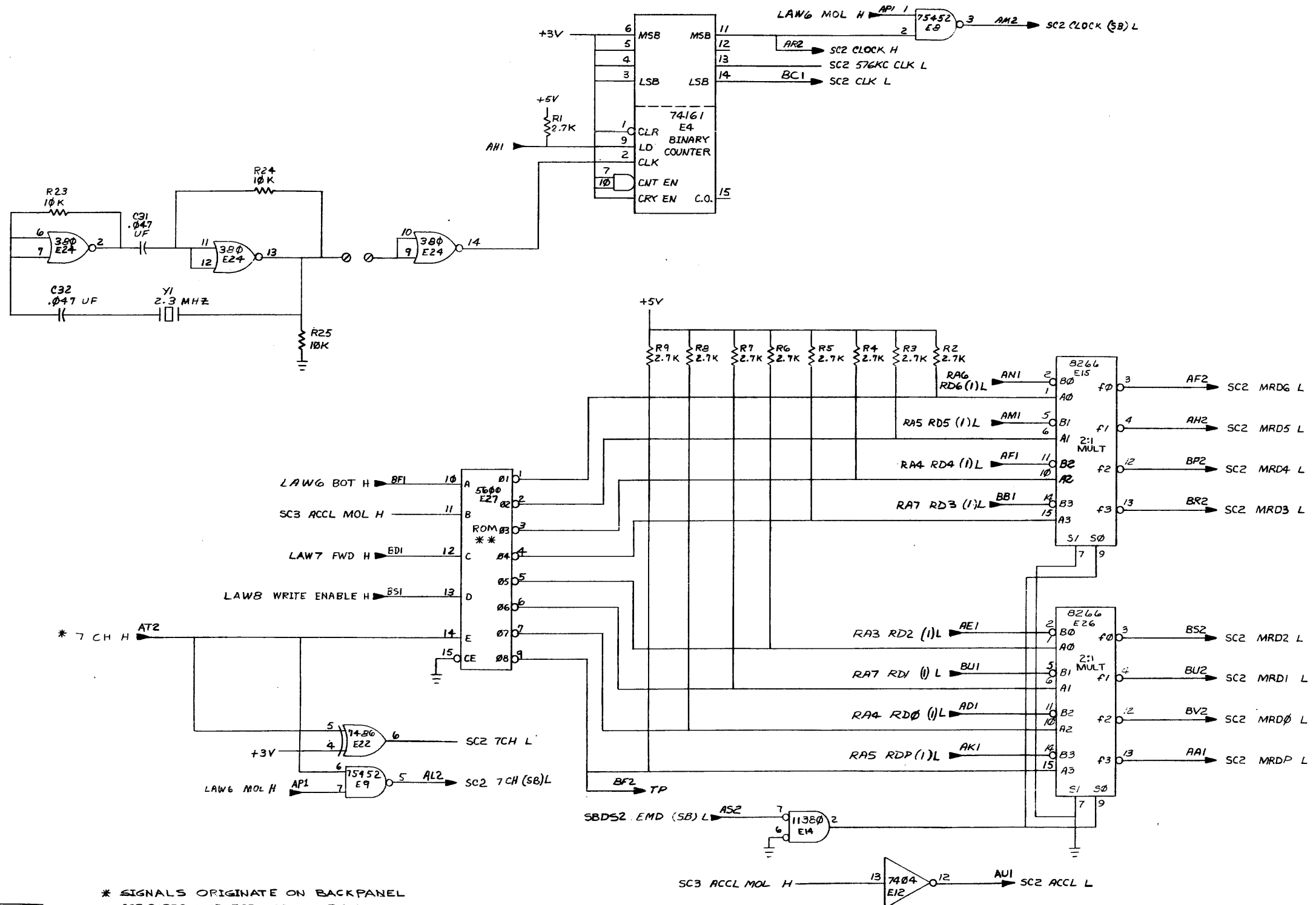
SWITCH BOX CONNECTOR



REVISIONS		
CHK	CHANGE NO	REV



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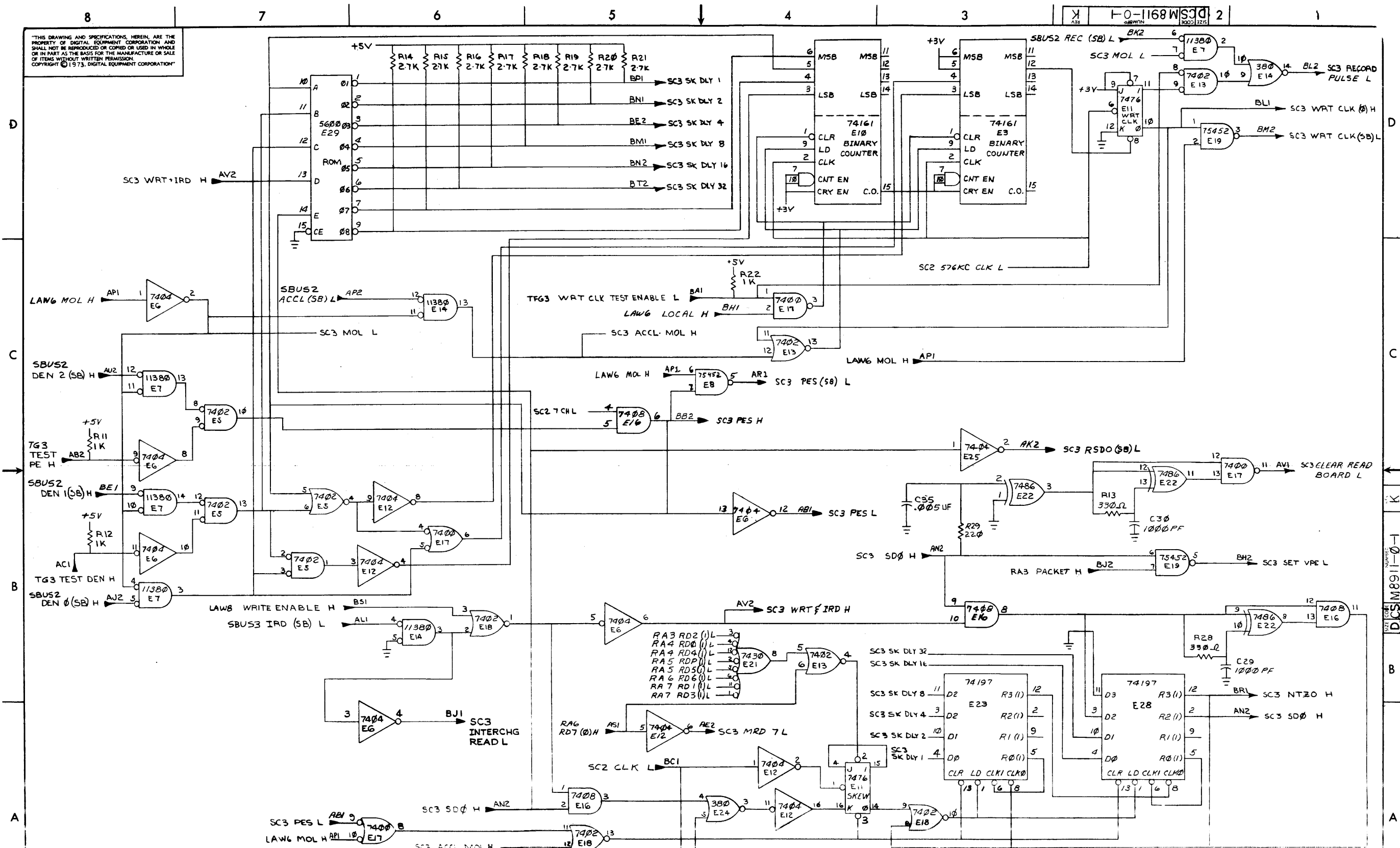


\* SIGNALS ORIGINATE ON BACKPANEL  
 \*\* SEE PARTS LIST FOR CORRECT ROM PART NUMBER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SLAVE CLK MOTION DLY (SC2)	SIZE CODE	D CS	NUMBER	M8911-0-1	REV.	K
SCALE	+	SHEET	2 OF 3	DIST.			

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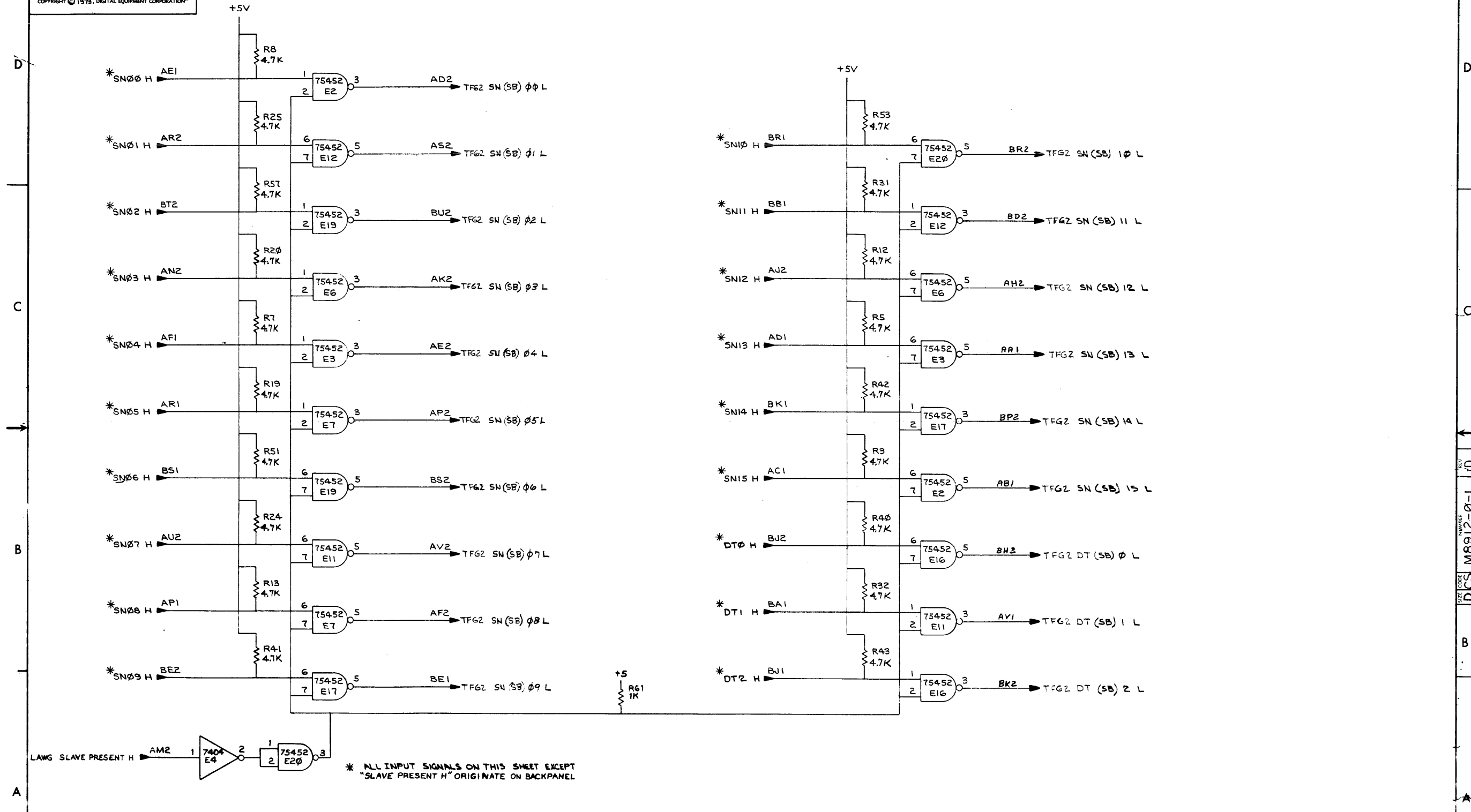


REVISIONS		
CHK	CHANGE NO	REV

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



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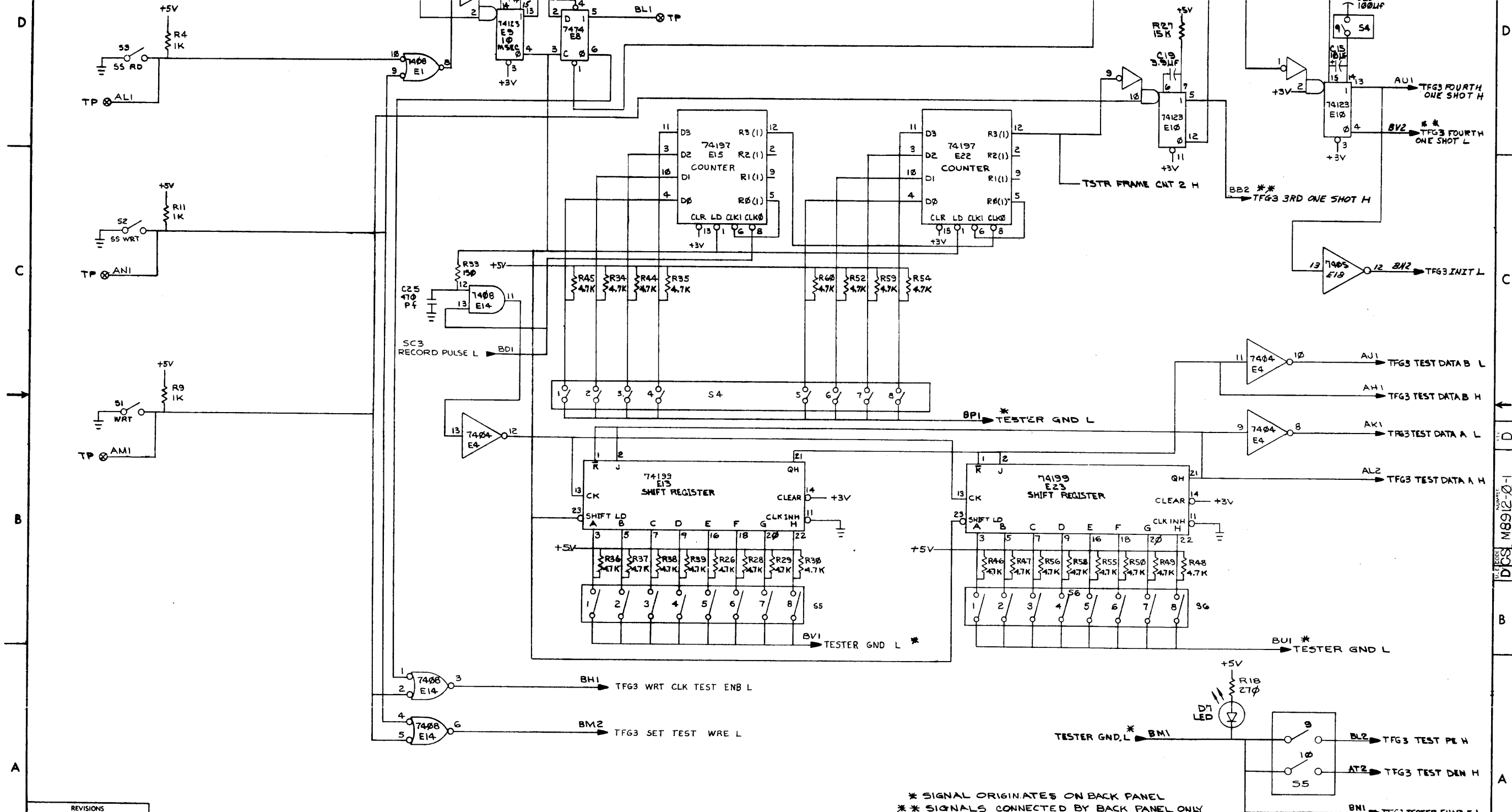


REVISIONS		
CHK	CHANGE NO	REV

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\*\* TFG3 FOURTH ONE SHOT L

\*\* TFG3 3RD ONE SHOT H



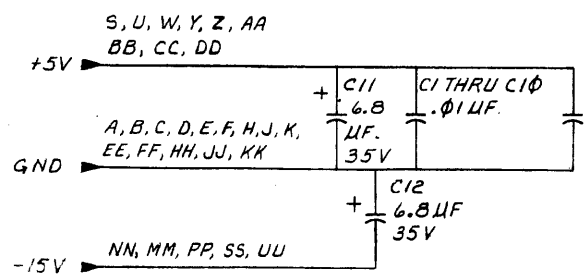
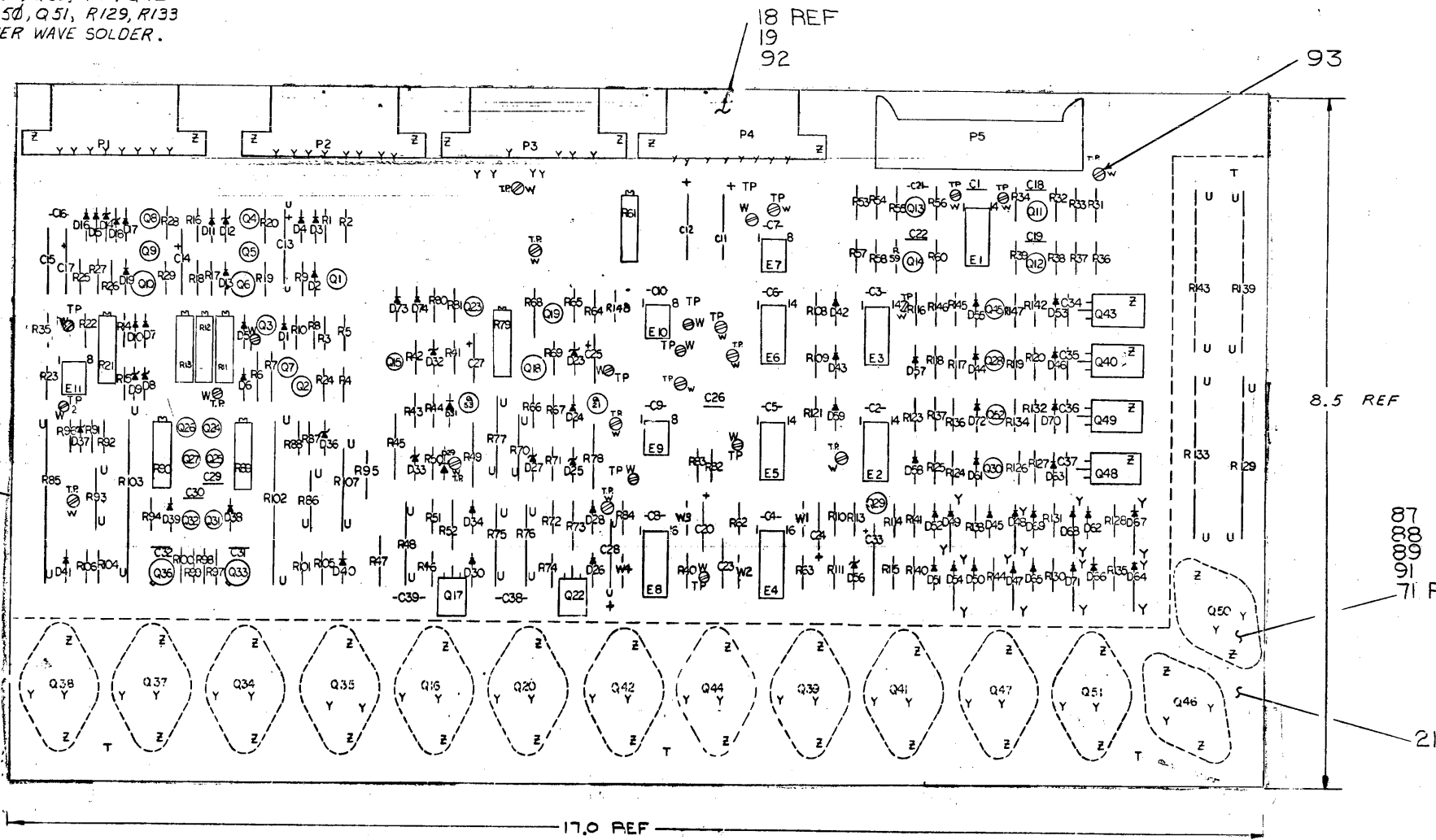
\* SIGNAL ORIGINATES ON BACK PANEL  
 \*\* SIGNALS CONNECTED BY BACK PANEL ONLY

REVISIONS		
CHK	CHANGE NO.	REV.

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

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- NOTES:**
- UNLESS OTHERWISE SPECIFIED:  
ALL RESISTORS ARE 1/4 W- 5%  
ALL CAPACITORS ARE 100V 20%.
  - MOUNT ITEM # 21 AND Q16, Q20, Q34, Q35, Q37, Q38, Q39, Q41, Q42, Q44, Q46, Q47, Q50, Q51, R129, R133, R139, R143 AFTER WAVE SOLDER.



IC TYPE	GND	+5V
75452	4	8
75451	4	8
74123	8	16
741	4	7

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.
TU'S						
ETCH BOARD REV		PARTS LIST				
D						
DRN: V. Bismetta		DATE: 10-17-73		<p><b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p> <p>TITLE: (DRVR) TU16 POWER BOARD</p> <p>SIZE CODE: DICS H606-0-1</p> <p>NUMBER: H</p>		
CHKD: J. Carney		DATE: 12/18/73				
ENGR: S. H. H.		DATE: 1-4-74				
PRJ. ENGR: S. H. H.		DATE: 1-4-74				
NEXT HIGHER ASSY:		SCALE: 1 OF 6		REV: H		
SEMICONDUCTOR CONVERSION CHART						

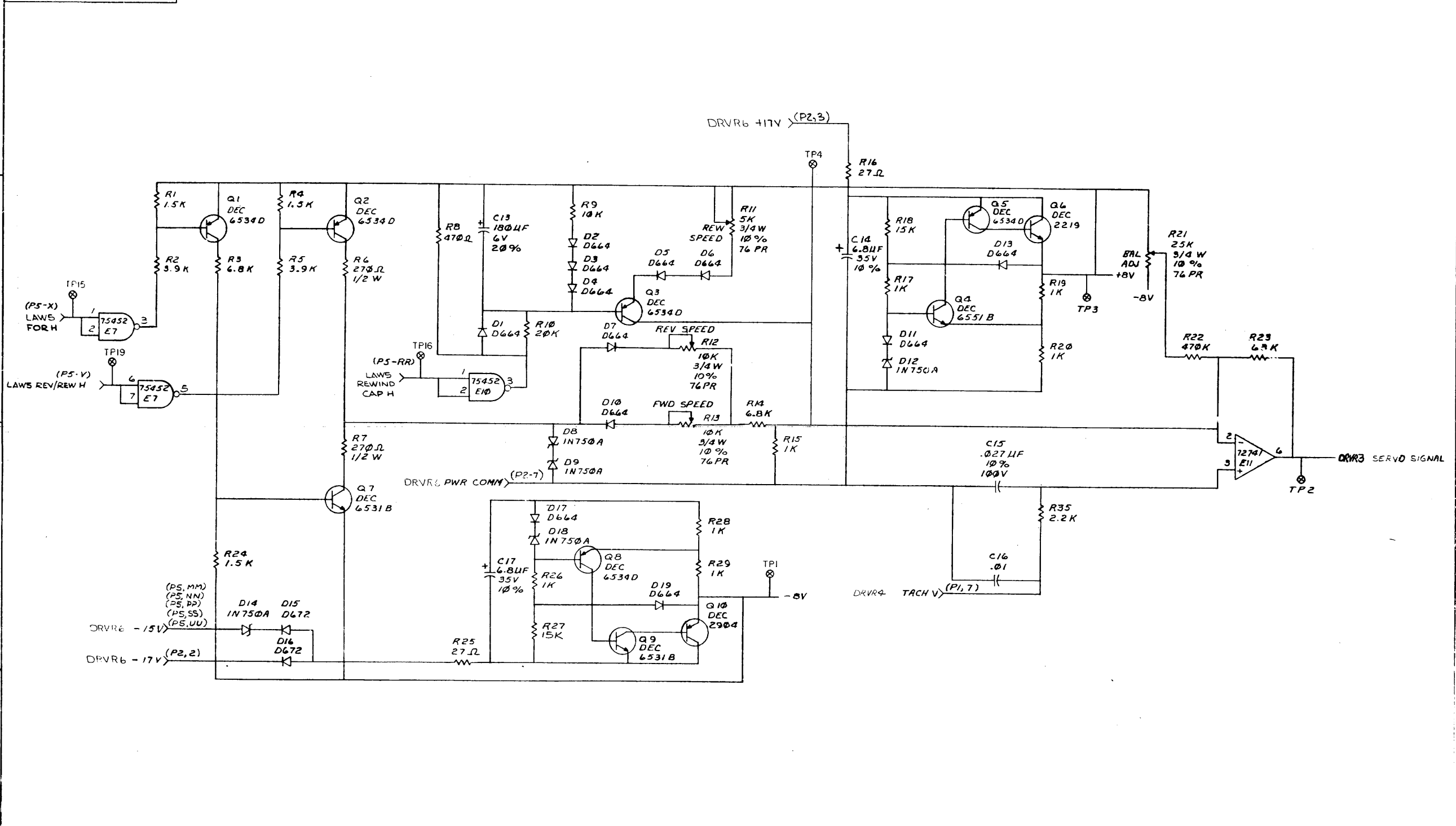
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QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO	QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO	QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
REF		X-Y COORDINATE HOLE LOCATION	X-CO-H606-0-4	REF	2	R43, R66	RES 560 $\frac{1}{2}$ W 5%	1301890	47					
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-H606-0-5	REF	5	R46, R74, R94, R98, R99	RES 270 $\frac{1}{2}$ W 5%	1301972	48					
REF		MODIFY FCO HISTORY	B-MH-H606-0-6	REF	2	R52, R73	RES 39 $\frac{1}{2}$ W 5%	1302336	49					
1		ETCHED CIRCUIT BOARD	5010481	1	1	R10	RES 20K $\frac{1}{2}$ W 5%	1302391	50					
1	C15	CAP .027UF 100V 10% MYLAR	1000049	2	1	R22	RES 470K $\frac{1}{2}$ W 5%	1302398	51					
5	C20, C23, C24, C27, C25	CAP 3.9UF 10V 10% S TANT	1000064	3	1	R84	RES 33K $\frac{1}{2}$ W 10%	1300510	52					
2	C13, C28	CAP 180UF 6V 20% S. TANT	1000086	4	8	R128, R130, R131, R135, R138, R140, R141, R144	RES 56 $\frac{1}{2}$ W 5%	1302602	53					
				5										
18	C1 THRU C10, C16, C18, C19, C22, C26, C29, C30	CAP .01UF 100V 20% DISC	1001610-01	6	2	R75, R77	RES 56 2W 5%	1302836	54					
				2	2	R88, R92	RES 2K $\frac{1}{2}$ W 5%	1302388	55					
4	C11, C12, C14, C17	CAP 6.8UF 35V 10% S. TANT	1005306	7	1	R114	RES 620 $\frac{1}{2}$ W 5%	1303178	56					
2	C31, C32	CAP .02UF	1000004	8	7	R32, R38, R44, R55, R59, R67, R113	RES 8, 2K $\frac{1}{2}$ W 5%	1303179	57					
1	C33	CAP 68UF 15V 10% S. TANT	1000082	9										
23	D1 THRU D7, D10, D11, D13, D17, D19, D38, D39, D42, D43, D44, D55, D57, D58, D59, D61, D72	DIODE D664	1100114	10	1	R107	RES 120 2W 5%	1305282	58					
				4	4	R129, R133, R139, R143	RES 56 10W 1%	1305396	59					
				2	2	R102, R103	RES 12 10W 5%	1305400	60					
2	D23, D32	DIODE IN 748A ZENER	1100122	11	2	R76, R48	RES 27 2W 10%	1305624	61					
7	D8, D9, D12, D14, D18, D36, D37	DIODE IN 750A ZENER	1100124	12	1	R85	RES .1 10W 1%	1309108	62					
8	D40, D41, D46, D53, D63, D70, D73, 74	DIODE IN 4004	1105796	13	1	R79	POT 100 $\frac{1}{2}$ W 10% 76PR	1309143-04	63					
2	D27, D33	DIODE IN 4736A ZENER	1103340	14	2	R89, R90	POT 1K $\frac{1}{2}$ W 10% 76PR	1309143-07	64					
3	D25, D29, D56	DIODE IN 756A ZENER	1103441	15	1	R11	POT 5K $\frac{1}{2}$ W 10% 76PR	1309143-09	65					
16	D50 THRU D52, D62, D65, D66, D69, D15, D16, D24, D26, D28, D30, D31, D34, D45,	DIODE D672	1105275	16	2	R12, R13	POT 10K $\frac{1}{2}$ W 10% 76PR	1309143-10	66					
				2	2	R21, R61	POT 25K $\frac{1}{2}$ W 10% 76PR	1309143-12	67					
8	D47, D48, D49, D54, D64, D67, D68, D71	DIODE 5624	1110420	17	2	Q10, Q33	TRANS DEC 2904	1501742	68					
4	P1, P2, P3, P4	CONN MATE-N-LOK 8 PIN	1209340	18	2	Q6, Q38	TRANS DEC 2219	1501881	69					
32		SOCKET TERMINAL CONTACT	1209456	19	1	Q18	TRANS DEC 2904A	1501913	70					
1	P5	CONN 40P RT ANG HEADER	1209941	20	5	Q37, Q41, Q44, Q50, Q51	TRANS DEC 3715	1503088	71					
1		HEAT SINK	74-11290	21	12	Q1, Q2, Q3, Q29, Q5, Q8, Q21, Q23, Q26, Q27, Q32, Q53	TRANS DEC 65340	1503409	72					
2	R105, R106	RES 47 $\frac{1}{2}$ W 5%	1300202	22	16	Q4, Q7, Q9, Q11 THRU Q15, Q19, Q24, Q25, Q28, Q30, Q31, Q45, Q52	TRANS DEC 65318	1509338	73					
1	R47	RES 56 $\frac{1}{2}$ W 5%	1309995	23										
2	R101, R104	RES 100 $\frac{1}{2}$ W 5%	1300229	24	7	Q16, Q20, Q34, Q39, Q42, Q46, Q47	TRANS DEC 3791	1509581	74					
3	R50, R71, R83	RES 220 $\frac{1}{2}$ W 5%	1300271	25	2	Q17, Q22	TRANS DEC 4923	1509604	75					
3	R45, R70	RES 220 1W 10%	1300277	26	1	Q35	TRANS DEC 4502	1510334	76					
2	R7, R6	RES 270 $\frac{1}{2}$ W 5%	1300285	27	1	Q38	TRANS DEC 802	1510335	77					
9	R82, R119, R120, R126, R127, R132, R134, R142, R147	RES 330 $\frac{1}{2}$ W 5%	1300295	28	4	Q40, Q43, Q48, Q49	TRANS D 45CB	1510598	78					
2	R86, R93	RES 330 1W 5%	1300297	29	1	E5	IC DEC 7400	1805575	79					
1	R8	RES 470 $\frac{1}{2}$ W 5%	1300316	30	1	E8	IC DEC 7410	1905578	80					
1	R68	RES 750 $\frac{1}{2}$ W 5%	1300354	31	1	E1	IC DEC 7402	1809004	81					
24	R15, R17, R19, R20, R26, R29, R29, R31, R33, R36, R37, R51, R53, R54, R57, R58, R72, R87, R91, R116, R123, R137, R146, R48	RES 1K $\frac{1}{2}$ W 5%	1300365	32	2	E2, E3	IC DEC 380	1909485	82					
				1	1	E11	IC DEC 741	1910298	83					
				1	1	E9	IC DEC 75451	1910406	84					
				2	2	E4, E8	IC DEC 74123	1910436	85					
				2	2	E7, E10	IC DEC 75452	1910645	86					
3	R35, R41, R64	RES 2.2K $\frac{1}{2}$ W 5%	1300417	34	A/R		THERMAL COMPOUND	9006268	87					
3	R108, R109, R121	RES 3.3K $\frac{1}{2}$ W 5%	1300439	35	2/B		SCREW, BD HD 4-40X7-18 LG	9006012-4	88					
3	R2, R5, R96	RES 3.9K $\frac{1}{2}$ W 5%	1300444	36	32		KEPNUT 4-40	9006557	89					
2	R9, R115	RES 10K $\frac{1}{2}$ W 5%	1300479	37	8		WASHER, NYLON	9006706	90					
5	R34, R39, R56, R60, R62	RES 12K $\frac{1}{2}$ W 5%	1300488	38	14		WASHER, ANODIZED	9006721	91					
2	R18, R27	RES 15K $\frac{1}{2}$ W 5%	1300486	39	8		EYELET	9006745	92					
5	R23, R117, R124, R136, R145	RES 68K $\frac{1}{2}$ W 5%	1301327	40	26		CAMBION TERMINAL	9007791	93					
2	R16, R25	RES 27 $\frac{1}{2}$ W 5%	1301522	41	6	C34 THRU C39	CAP .1UF 100V 20% DISC	1000030	94					
2	R3, R14	RES 6.8K $\frac{1}{2}$ W 5%	1301423	42	4		EYELET	9006746	95					
2	R49, R78	RES .82 $\frac{1}{2}$ W 10%	1301642	43	4		SCREW, BD HD 4-40 X 5-16 LG	9006010-4	96					
1	R95	RES .47 $\frac{1}{2}$ W 5%	1301695	44	A/B		TUBING $\frac{1}{8}$ " 22 THIN WALL	9107256	97					
1	R63	RES 22K $\frac{1}{2}$ W 5%	1301808	45	1		GRIPLET	1210214	98					
1	R40	RES 5.6K $\frac{1}{2}$ W 5%	1301874	46	4	W1 THRU W4	JUMPER, WIRE, WHITE INSULATION	9009185	99					

REVISIONS		
CHK	CHANGE NO	REV

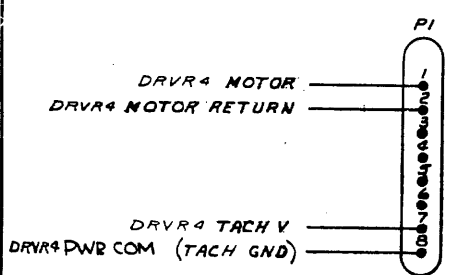
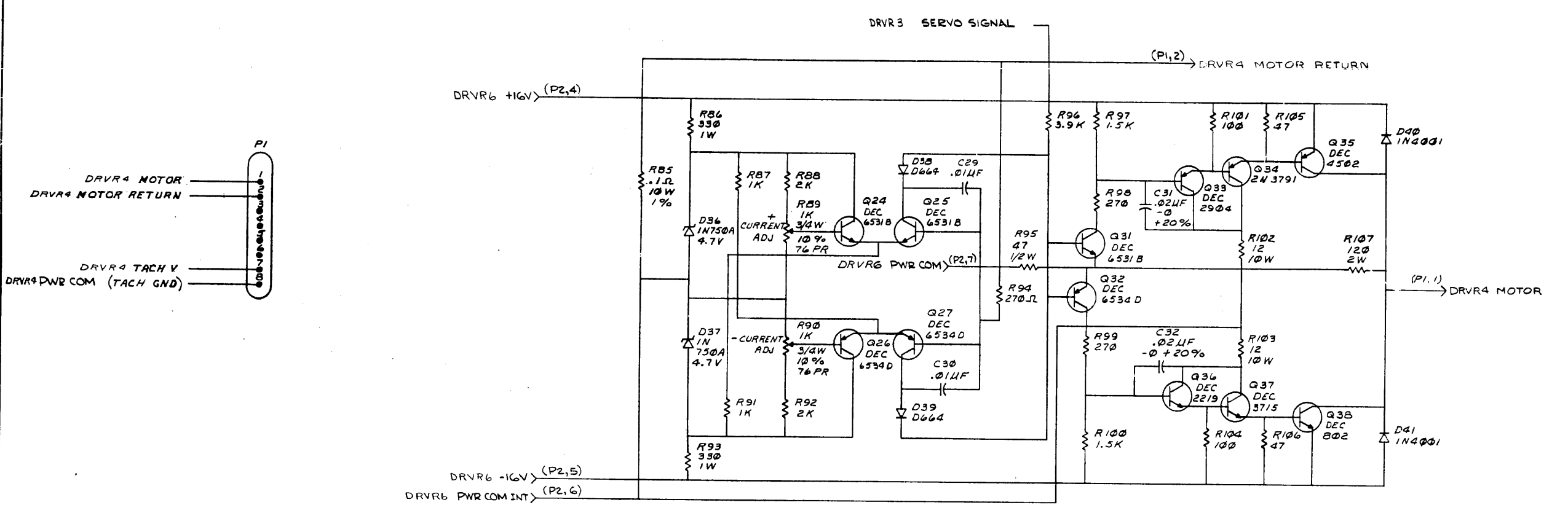
TITLE: TU16 POWER BOARD (DRVR2) SIZE: CODE: DCS H606 0-1 NUMBER: H REV: H

SCALE: SHEET 2 OF 6 DIST.



REVISIONS		
CHK	CHANGE NO	REV

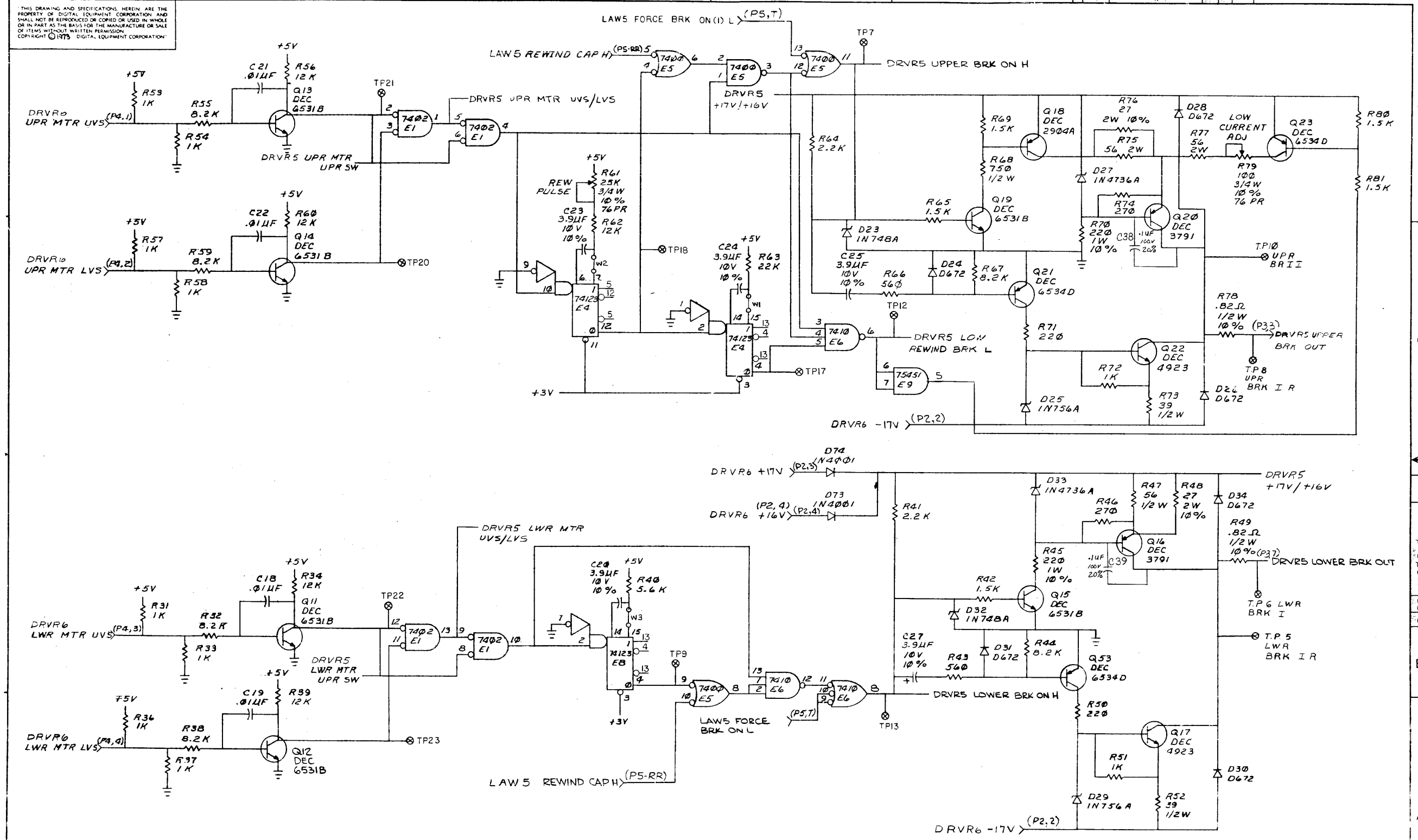
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REVISIONS		
CHK	CHANGE NO	REV

TITLE: TU16 POWER BOARD (DRVR4)  
 SIZE CODE: DCS  
 NUMBER: H606-0-1  
 REV: H  
 SCALE: -#- SHEET 4 OF 6

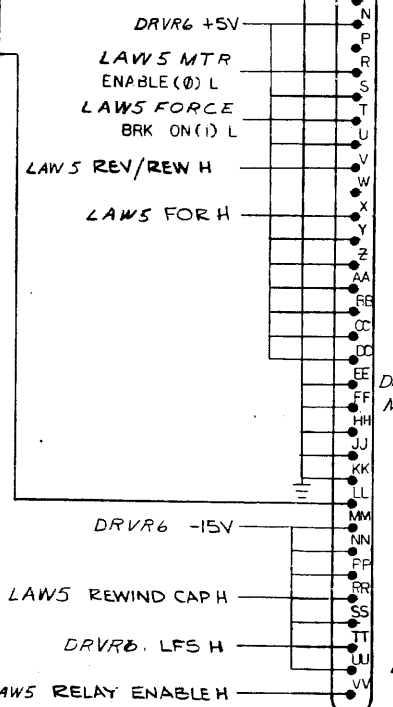
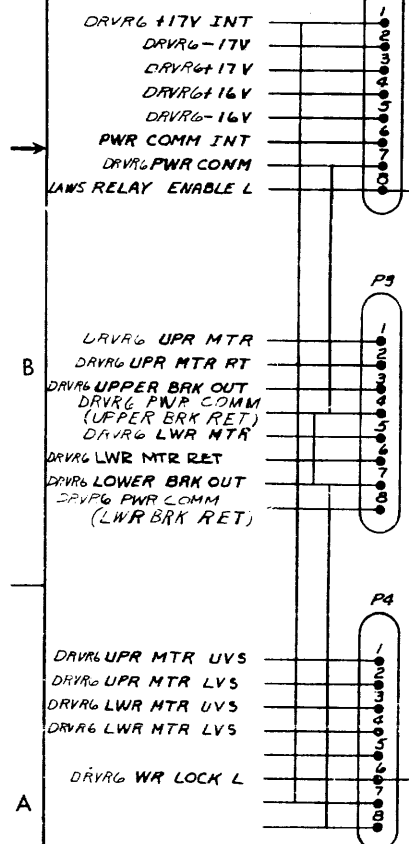
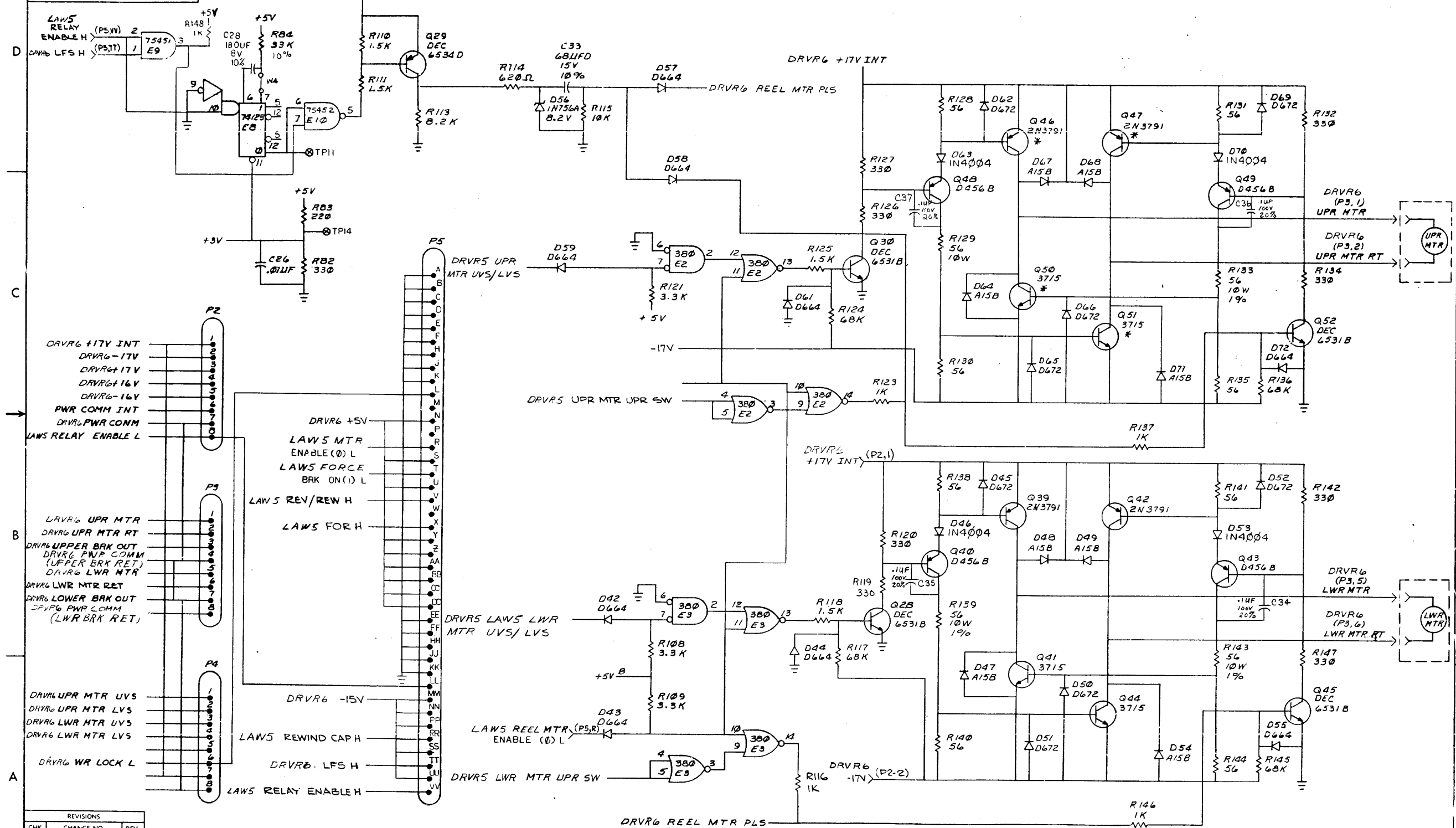
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REVISIONS		
CHK	CHANGE NO	REV

TITLE: (DRVR5) TU16 POWER BOARD SHEET 5 OF 6 DCS H606-0-1

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REVISIONS		
CHK	CHANGE NO	REV



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Table with 5 columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. Rows include X-Y COORDINATE HOLE LOCATION, ASSY-DRILLINGHOLE LAYOUT, MODULE ECO HISTORY, ETCHED CIRCUIT BOARD, CAP 680PF, 100V, 5% DM, CAP 8.0UF, 35V, 10% S.TANT, CAP .22UF, 50V, 10% CER, CAP 10UF, 20V, 10% S.TANT, CAP 82PF, 100V, 5% DM, CAP 120PF, 100V 5% DM, CAP 330PF, 100V, 5% DM, CAP 2.2UF, 20V, 10% S.TANT, CAP 82PF, 100V, 5% DM, CAP 470PF, 100V, 5% DM, CAP .47UF, 25V, 20% CER, CAP 22UF 35V, 20% S.TANT, CAP .005UF, 100V, 20% DISC, CAP 1000PF 250V, 20% DISC, CAP 3.9UF 10V, 10% S.TANT, CAP .01UF 100V, 20% DISC, DIODE D664, DIODE IN747A 3.6V 5%, DIODE IN750A, RES 910 1/4W 5%, RES 10 1/4W 5%, RES 100 1/4W 5%, RES 330 1/4W 5%, RES 47 1/4W 5%

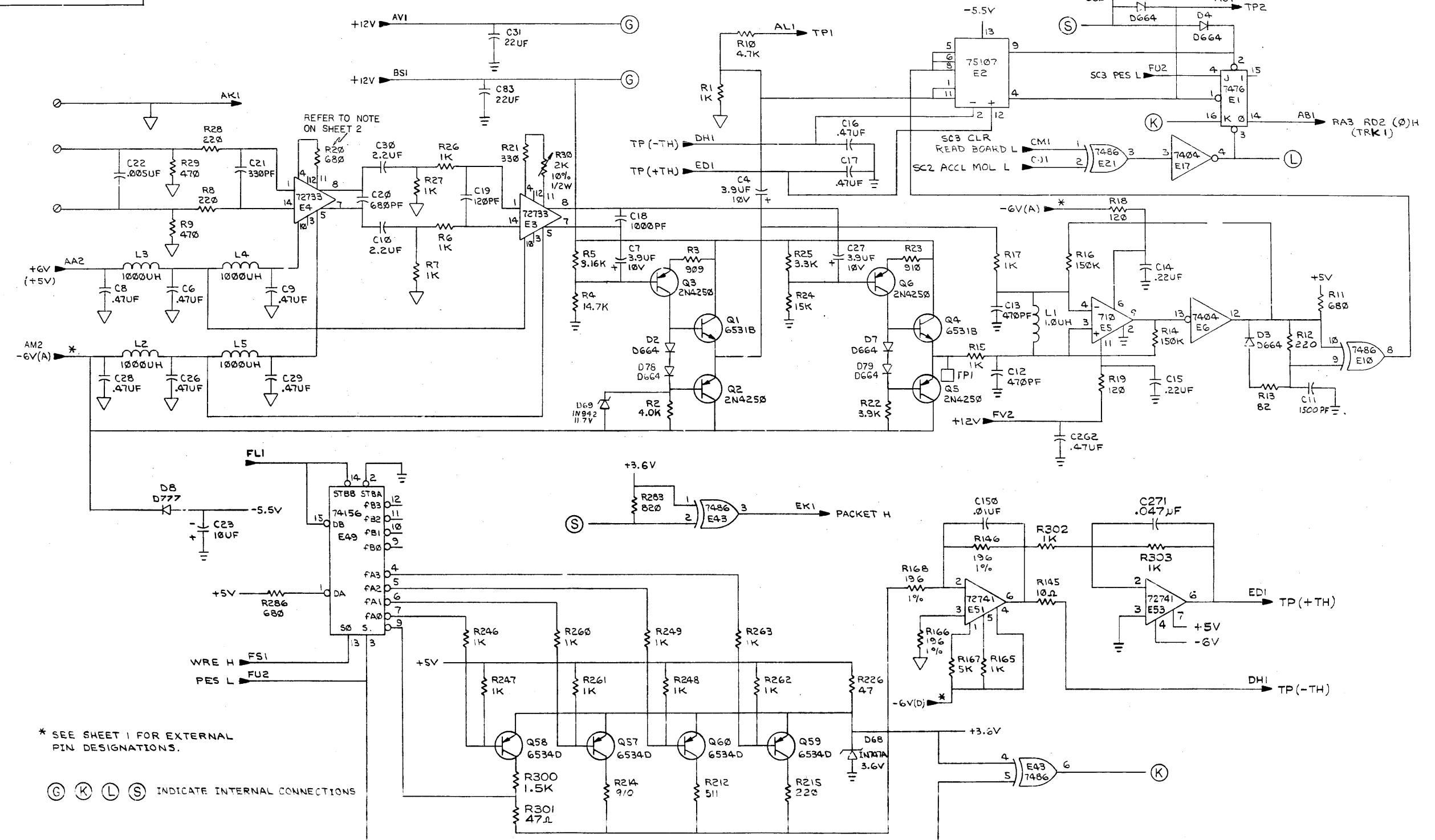
Table with 5 columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. Rows include RES 220 1/4W 5%, RES 470 1/4W 5%, RES 680 1/4W 5%, RES 680, 1/4W, 5% NOMINAL, RES 1K 1/4W 5%, RES 820, 1/4, 5%, RES 120 1/4W 5%, RES 196 1/4W 1%, RES 4.7K 1/4W 5%, RES 3.9K 1/4W 5%, RES 4.0K 1/4W 1%, RES 150K 1/4W 5%, RES 82 1/4W 5%, RES 3.3K 1/4W 5%, RES 15K 1/4W 5%, POT 2K 1/4W 10%, RES 47 1/4W 5%, RES 360 OHM 1/4W 5%, TRANSISTOR 65340, TRANSISTOR 2N4250

Table with 5 columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. Rows include INDUCTOR 1000 UH, I.C. 7415, I.C. 72741, I.C. 72733, I.C. 7476, I.C. 75107, I.C. 710, I.C. 7486, I.C. 7404, EYELET, SPLIT LUG, HANDLE, HEX, RFAD CABLE, CABLE READ BOARD, RES 470 1/4W 5% (HIGH GAIN) OR RES 820 1/4W 5% (LOW GAIN), CAP 1500 PF, RES 470 (MAX GAIN), RES 680, RES 820, RES 1.2K (NOMINAL), RES 18K (MIN GAIN), DIODE D777, RES 270 1/4W 5%, ZENER DIODE IN942 11.7V, RES 3.16K 1/4W 1%, RES 511 1/4W 1%, RES 14.7K 1/4W 1%, RES 909 1/8W 1%, RES 15K 1/4W 5%, CAP .047 MFD, POLYCARB, I.C. 75452

REVISIONS table with columns: CHK, CHANGE NO, REV

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1-0-9900 SC D 2



\* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

ⓐ ⓑ ⓓ ⓔ INDICATE INTERNAL CONNECTIONS

REVISIONS		
CHK	CHANGE NO	REV

TITLE: READ AMP (RA3) **DCS** G056-0-1

SCALE: --- SHEET 3 OF 7 DIS\*

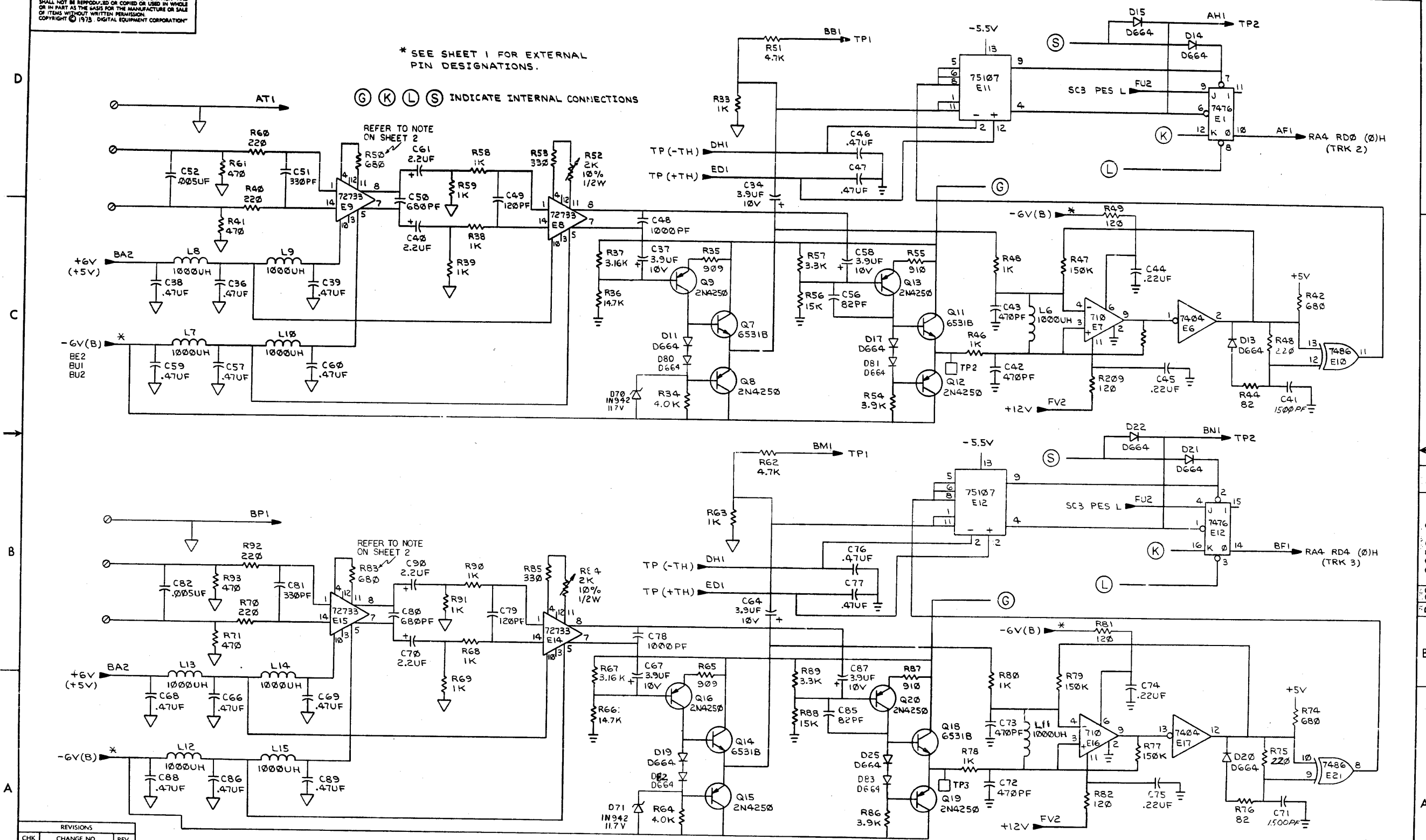
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1-0-9509 SC 2

\* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

(G) (K) (L) (S) INDICATE INTERNAL CONNECTIONS

REFER TO NOTE ON SHEET 2



REVISIONS		
CHK	CHANGE NO	REV

TITLE: READ AMP (RA4) SIZE CODE: DCS NUMBER: G056-0-1 REV: L  
 SCALE: SHEET 4 OF 7

DEC FORM NO. 080 138

8

7

6

5

4

3

2

1

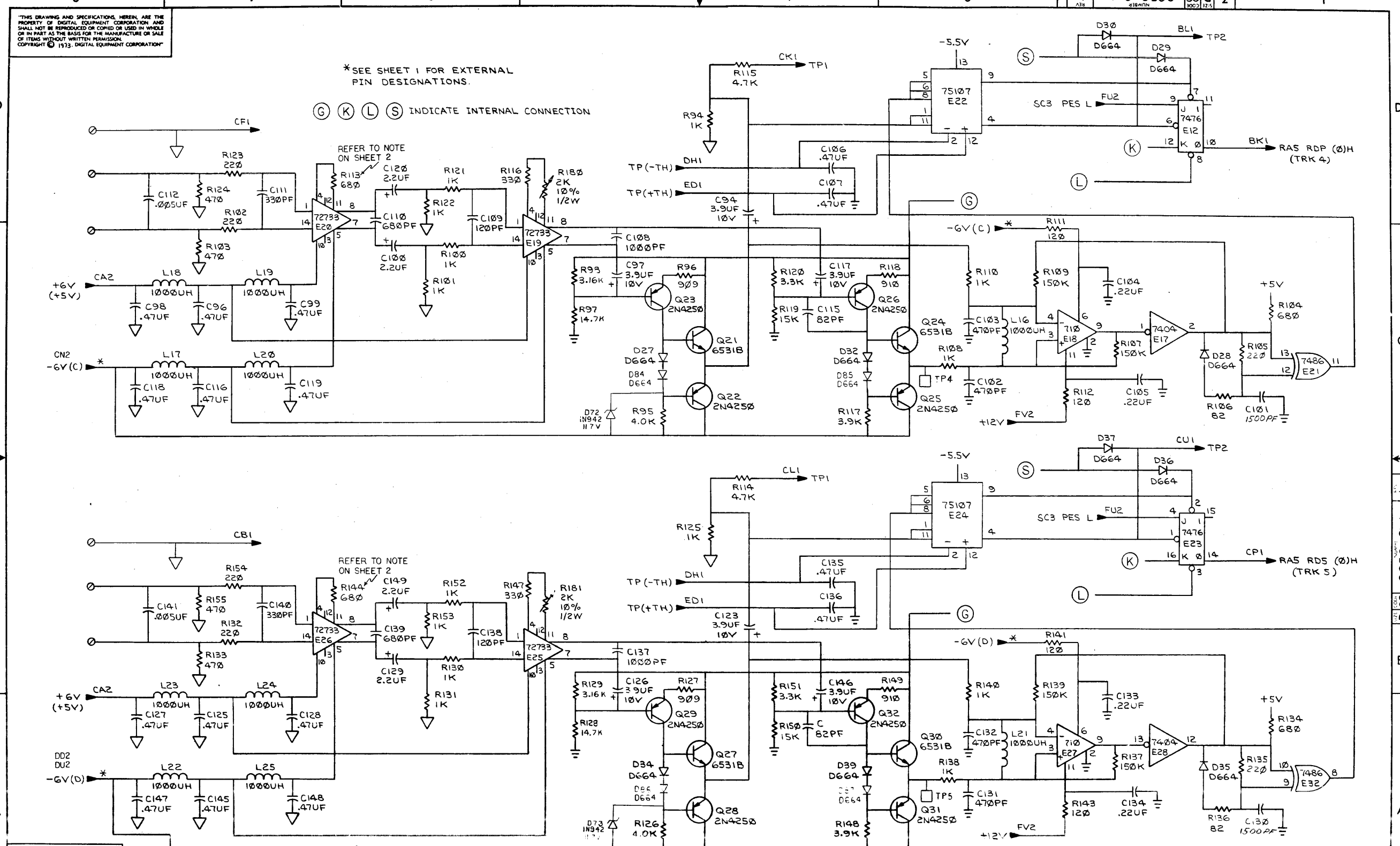
DCS G056-0-1 L

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\*SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

(G) (K) (L) (S) INDICATE INTERNAL CONNECTION

REFER TO NOTE ON SHEET 2



REVISIONS		
CHK	CHANGE NO	REV

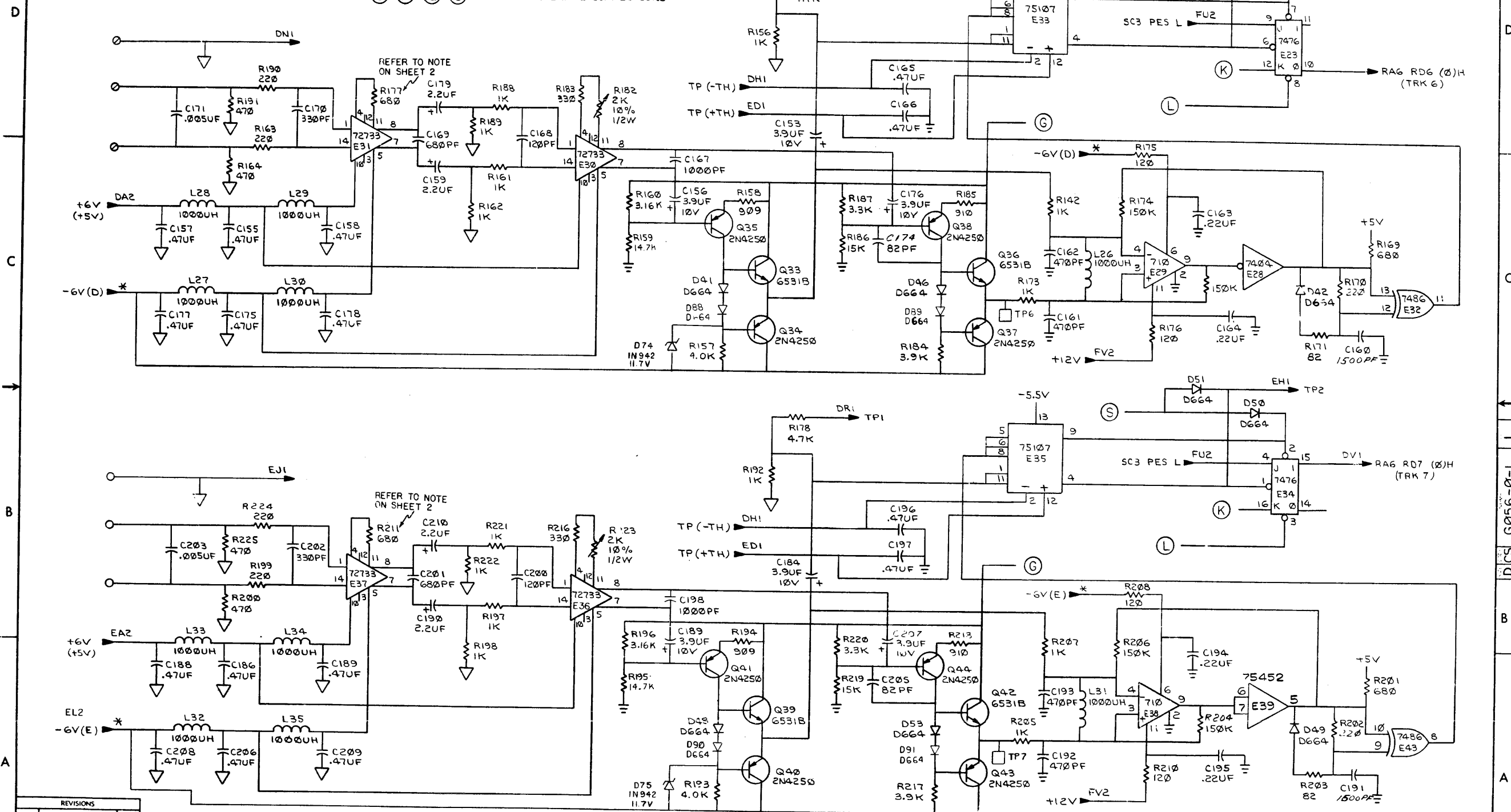
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 SCALE: 1/8" = 1"  
 SHEET 5 OF 7  
 SIZE CODE: DCS  
 NUMBER: G056-0-1  
 DIST: L

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\* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

(G) (K) (L) (S) INDICATE INTERNAL CONNECTIONS

1-0-9509 SCD 2



REVISIONS		
CHK	CHANGE NO	REV.

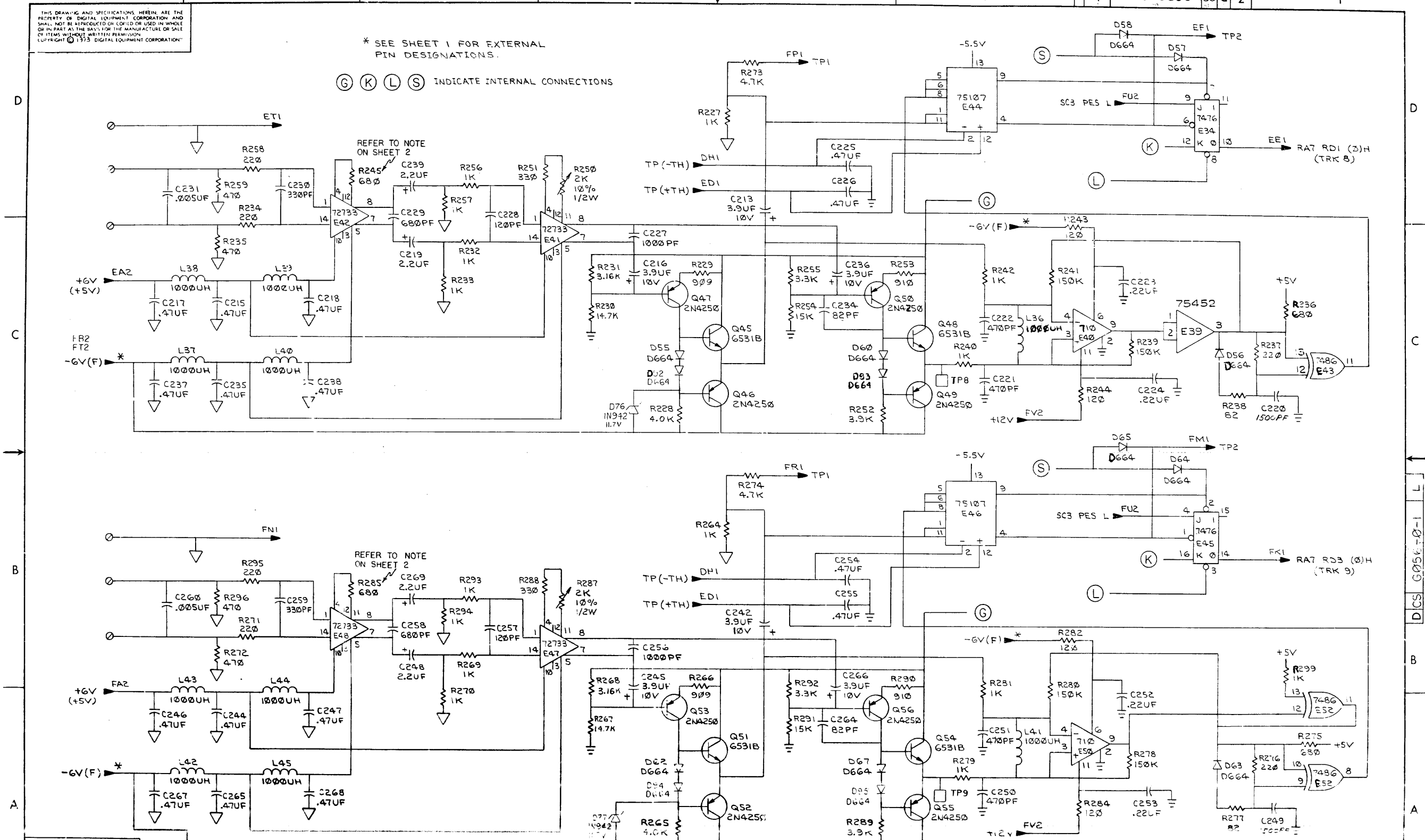
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 SCALE: / / SHEET 6 OF 7 DIST.:

DCS G056-0-1 L B A

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\* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

(G) (K) (L) (S) INDICATE INTERNAL CONNECTIONS



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV
READ AMP (RA7)	D CS	G056-0-1	L
SCALE	SHEET	OF	
	7	7	

8 7 6 5 4 3 2 1

D C B A

1-0-9500 SCID 2

8 7 6 5 4 3 2 1

D C B A

D CS G056-0-1

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**NOTES:**

- DIODES ~~D13, D18, D24~~ ARE IN4004.
- F2 = 6 1/4 AMP SB FOR 125V/60 CYCLE OPERATION. USE LITTEL FUSE P/N 3136.25. F2 = 4 AMP SB FOR 250V/50 CYCLE OPERATION.
- ALL 4 TRANSISTORS, Q5, Q7, Q8, Q10, ARE TO HAVE #10AWG TUBING 5/16" LONG ON 4-40 SCREWS THAT HOLD TRANSISTORS TO HEAT-SINK.
- THERMAL COMPOUND TO BE APPLIED BETWEEN HEAT SINK AND DIODES D9, D11, & D12.

SEE NOTE 2 \*

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
1	R45	RES 2.74K 1/4W 5%	1304868	105
1	C23	CAP 5000PF, 100V, 20% DISC	1001765	106
2		ROLL PIN	9009368	107
6		SPLIT LUG	9006735	108
3		LOCK WASHER	9007801	109
2	F13, F14	FUSE 15A	1210929	110
1	F2	FUSE 6 1/4A SB	9007223	111
1	F2	FUSE 4A SB	9007220	112
4	D10, D18, D19, D27	DIODE, A15B	1110420	113
N/A		TUBING #10AWG 5/16" LG	9107302-11	114
1	D12	DIODE, HEAVY DUTY (UNITRODE)	11-13889-0	115

1	R15	RES. 12K. 1/4W. 5%	1300458	51
4	R16, R37, R26, R44	RES 1K POT	1309150-03	52
2	R17, R23	RES 5.6K 1/4W 5%	1301374	53
2	R18, R39	RES 56 1/4W 5%	1302602	54
1	R19	RES 330 1/4W 5%	1300295	55
1	R20	RES 0.1 5W 5% WW	1305872	56
4	R21, R42, R46, R52	RES 27 1/4W 5%	1301522	57
4	R22, R43, R53, R56	RES 680 1/4W 5%	1301424	58
1	R54	RES 8.2K 1/4W 5%	1303179	59
1	R24	RES 2.7K 1/4W 5%	1300428	60
1	R25	RES 220 1/4W 5%	1300271	61
1	R30	RES 30K 1/4W 5%	1302294	63
2	R31, R55	RES 12K 1/4W 5%	1300488	64
2	L1, L2	INDUCTOR 12UH	1603358	65
2	R38, R47	RES 2.4K 1/4W 5%	1303177	66
3	R41, R50, R32	RES 1 2W 5% WW	1305428	67
1	R33	RES 47 1/4W 5%	1300202	68
1	R49	RES 750 1/4W 5%	1301401	69
1	R51	RES 10K 1/4W 5%	1300479	70
3		SPACER, ROUND FIBRE #6-32	5005556	71
1		LUG, SPLIT	5004735	72
2	Q1, Q9	TRANSISTOR SAC-58	1000939	73
3	Q2, Q3, Q4	TRANSISTOR DEC-6531B	1000938	74
3		SCREW, PAN HD #6-32 X 1/4	5006620-1	75
4	Q5, Q7, Q8, Q10	TRANSISTOR 2N3055	1505819	76
1	Q6	TRANSISTOR 2N4234	1504809	77
2	Q11, Q12	TRANSISTOR 2N2904A	1501913	78
3	D15, D22, D26	SCR 2H4441	1505867	79
1	T1	TRANSFORMER	1000726	80
1	E1	IC LM300	1909371	81
2	E2, E3	IC DEC 723	1310415	82
1	E4	IC LM304	1911555	83
1	E5	IC DEC 75451	1310406	84
4	W1-W4	JUMPER INSULATED (-4-)	5009185	85
1	F3	FUSE 4A SB	9007220	86
1	F3	FUSE 7A SLO-BLO	5002244	87
1	F4	FUSE 10A SB	9007225	88
1	F5	FUSE 20A SB	9007218	89
2	F6, F7	FUSE 20A	9008835	90
2	F8, F9	FUSE 6A	9008839	91
2	F11, F10	FUSE 3/4A	5007210	92
5	1-4, 6	TAB FASTON	5005219	93
1	5	TAB FASTON	5007113	94
1	R60	RES 560 1/4W 5%	1301630	95
1	R57	RES 5K POT	1309150-4	96
1	R59	RES 1K 1/4W 5%	1300284	97
1	R54	RES 4.5K 1/4W 5%	1300284	98
6		WASHER NYLON	5005707	99
2		SCREW, PAN HD #6-32 X 7/8	5006620-1	100
1		HEAT-SINK	5005122	101
1	F12	FUSE 5A (AXIAL LEAD)	1205747	102
1	D20	DIODE IN75EA ZENER 2.2V 5%	1103441	103
1	F1	FUSE 5ASB, BUSS MDX5	90083791	104

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-5410451-0-4	REF
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-5410451-0-5	REF
REF		MODULE ECO HISTORY	B-WH-5410451-0-6	REF
1		ETCHED CIRCUIT BOARD	5010450	1
2		EYELET	9009000	2
3		FUSE CLIP	9009513	3
4		TERMINAL	9007970	4
5		EYELET	9006746	5
6		TRANSIPAD	9007200	6
7		HEAT SINK	1210001	7
8		SPACER ROUND FIBRE	9007814	8
9		NUT, HEX #6-32	9008957	9
10		SCREW PAN HD #6-32 X 7/8	9006027-1	10
11		SCREW PAN, HD #6-32 X 5/8	9006025-1	11
12		WASHER, INSULATOR	9006721	12
13		COMPOUND, THERMAL	9008288	13
14		KEP NUT #4-40	9006557	14
15		SCREW PAN HD #4-40 X 1/2	9006013-1	15
16		WIRE, STRANDED 18 AWG	9107360	16
17		BRACKET	D-1A-7411387-0-0	17
18		HEAT SINK	C-1A-7411389-0-0	18
19		HEAT SINK	C-1D-7411388-0-0	19
20		RELAY SOCKET	1210634	20
21		PIN, PC	1209456-1	21
22		CAP. 01UF 100V 20% DISC	1001610-1	22
23		CAP. 02UF 1000V 20% DUAL DISC	1010767	23
24		CAP. 22 UF 35V 20% TANT	1002433	24
25		CAP. 1UF 35V 10% TANT	1001776	25
26		CAP. 47UF 20V 10% TANT	1004814	26
27		CAP. 1000PF 100V 5% DM	1000042	27
28		CAP. 22UF 50V 20% +80% CER	1010274	28
29		CAP. 10UF 35V 10% TANT	1001476	29
30		CAP. 820PF 100V 5% DM	1000027	30
31		DIODE IN4004	1105796	31
32		DIODE IN967A ZENER 18V 10%	1110068	32
33		DIODE D670-1	1102162	33
34		DIODE IN745A ZENER 3.3V 5%	1104880	34
35		DIODE NSS 3514	1110714	35
36		CAP. 100UF 6V 20% TANT	1000088	36
37		IN469A 5.8V ZENER	1102908	37
38		DIODE IN964B ZENER 13V 5%	1109988	38
39		RELAY	1210101	39
40		RELAY	1210683	40
41		CONN, 4PIN	1209350-4	41
42		CONN, 9 PIN	1209350-9	42
43		CONN, 15 PIN	1209350-15	43
44		RES 100 1W 5%	1300232	44
45		RES 100 1/4W 5%	1300229	45
46		RES 1K 1/4W 5%	1300365	46
47		RES 2.2K 1/4W 5%	1300417	47
48		RES 470 1/4W 5%	1300516	48
49		RES 390 2W 5%	1301864	49
50		RES 1K 2W 5%	1301952	50

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
1	F12	FUSE 5A (AXIAL LEAD)	1205747	102
1	D20	DIODE IN75EA ZENER 2.2V 5%	1103441	103
1	F1	FUSE 5ASB, BUSS MDX5	90083791	104

TUIG		ETCH BOARD REV		PARTS LIST	
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE	SHEET 1 OF 4
SEMICONDUCTOR CONVERSION CHART					
DRN. DATE 11/9/73		CHKD. DATE 1/9/74		TITLE: TUIG POWER SUPPLY	
DESIGNED BY: [Signature]		CHECKED BY: [Signature]		DRAWN BY: [Signature]	
PROJ. ENGR. DATE		PROJ. ENGR. DATE		NEXT HIGHER ASSY	
REV. NO.		REV. NO.		REV. NO.	
SIZE CODE: CICS		NUMBER: 5410451-0-1		REV. S	

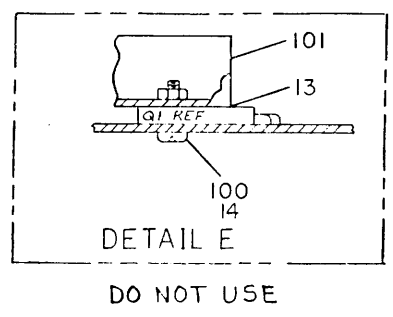
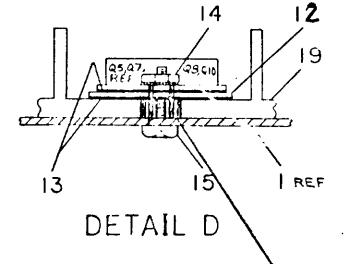
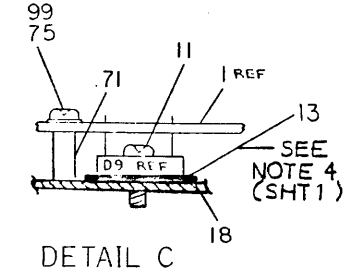
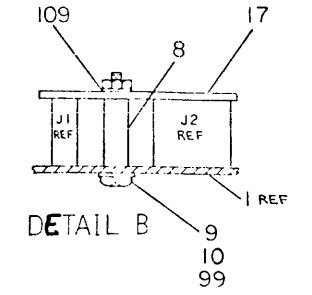
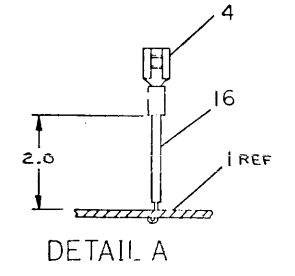
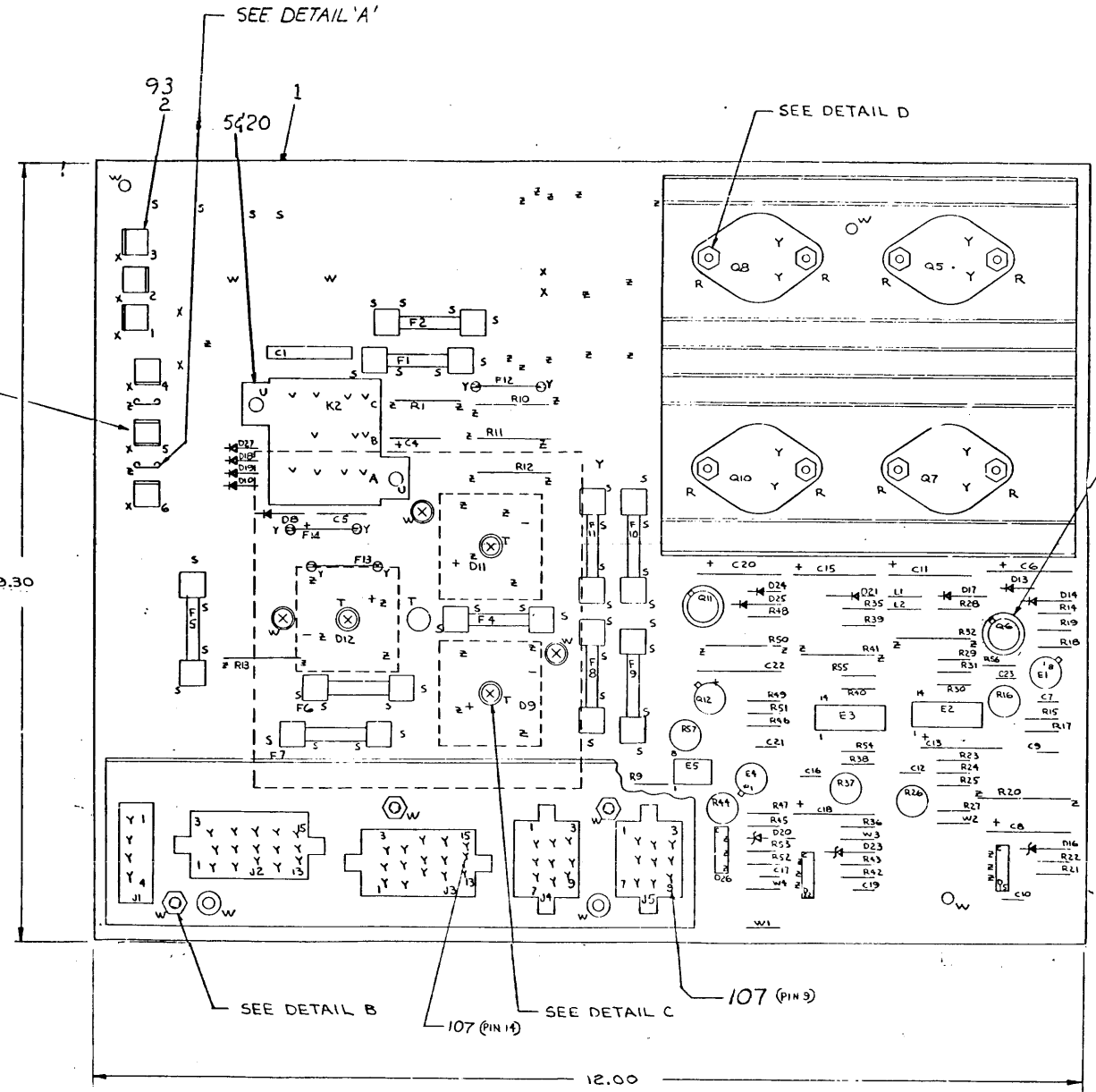
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

Handwritten notes and signatures in the bottom right section, including names like H. DRAB, A. KORELITZ, and dates like 11/9/73.

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D  
C  
B  
A



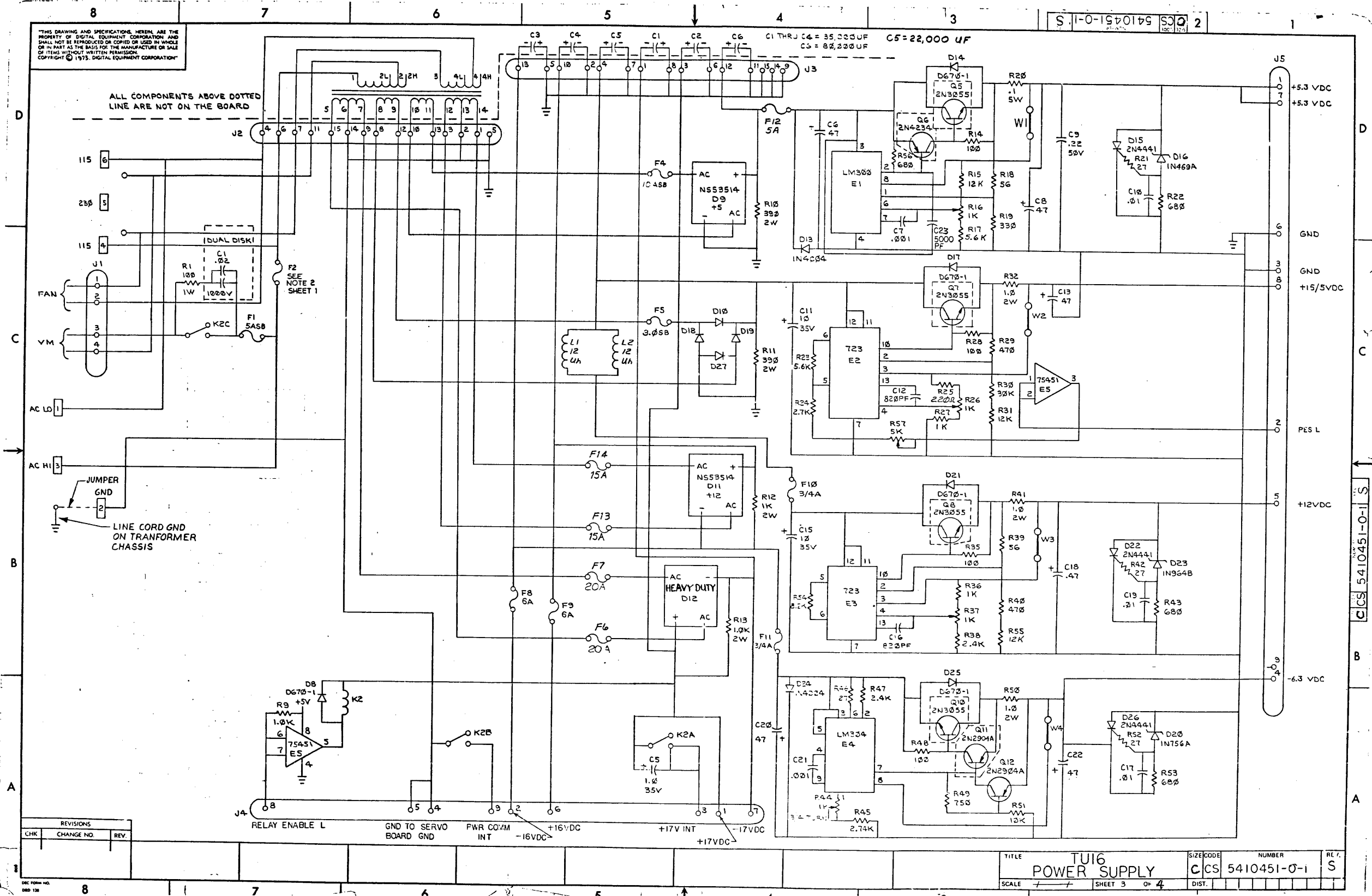
REVISIONS		
CHK	CHANGE NO	REV

DEL FORM NO 080 1-74

D  
C  
B  
A

C,CS 5410451-0-1

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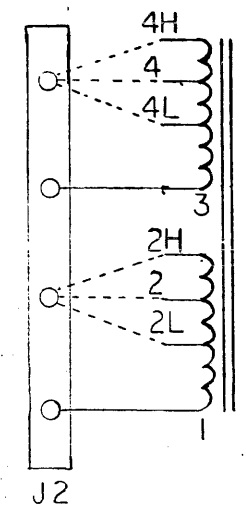


REVISIONS		
CHK	CHANGE NO.	REV.

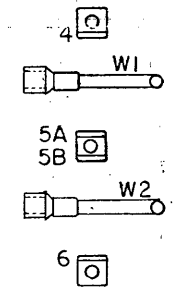
TITLE	TUI6 POWER SUPPLY	SIZE CODE	C CS	NUMBER	5410451-0-1	REV.	S
SCALE	+	SHEET	3	OF	4	DIST.	

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VOLTAGE RANGE 50-60CPS	TRANSFORMER PRIMARY TAPS
95 to 105 190 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



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



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN. H. DANALJIAN	DATE 11-9-73	<b>digital</b>
DIMENSIONS ARE $\frac{\text{MILLIMETERS}}{\text{INCHES}}$ UNLESS OTHERWISE SPECIFIED		CHK'D. F. CARBERRY	DATE 1-14-74	
MILLIMETERS	INCHES	ANGLES	ENG. A. KORELITZ	
X,XX ±0.10	.XXX ±.005	30° 30'	PROJ. ENG. A. KORELITZ	DATE 1-14-74
XX ±0.5	.XX ±.02		PROD. R. COGUEN	DATE 1-14-75
X ±2	.X ±.1		TITLE <b>TU16 POWER SUPPLY</b>	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		
MATERIAL	FINISH	SCALE	SIZE CODE C:CS	NUMBER 5410451-0-1
		SHEET 4 OF 4	DIST.	REV. S

REV.	CHANGE NO.
CHK	

REV. S  
NUMBER 5410451-0-1  
SIZE CODE C:CS



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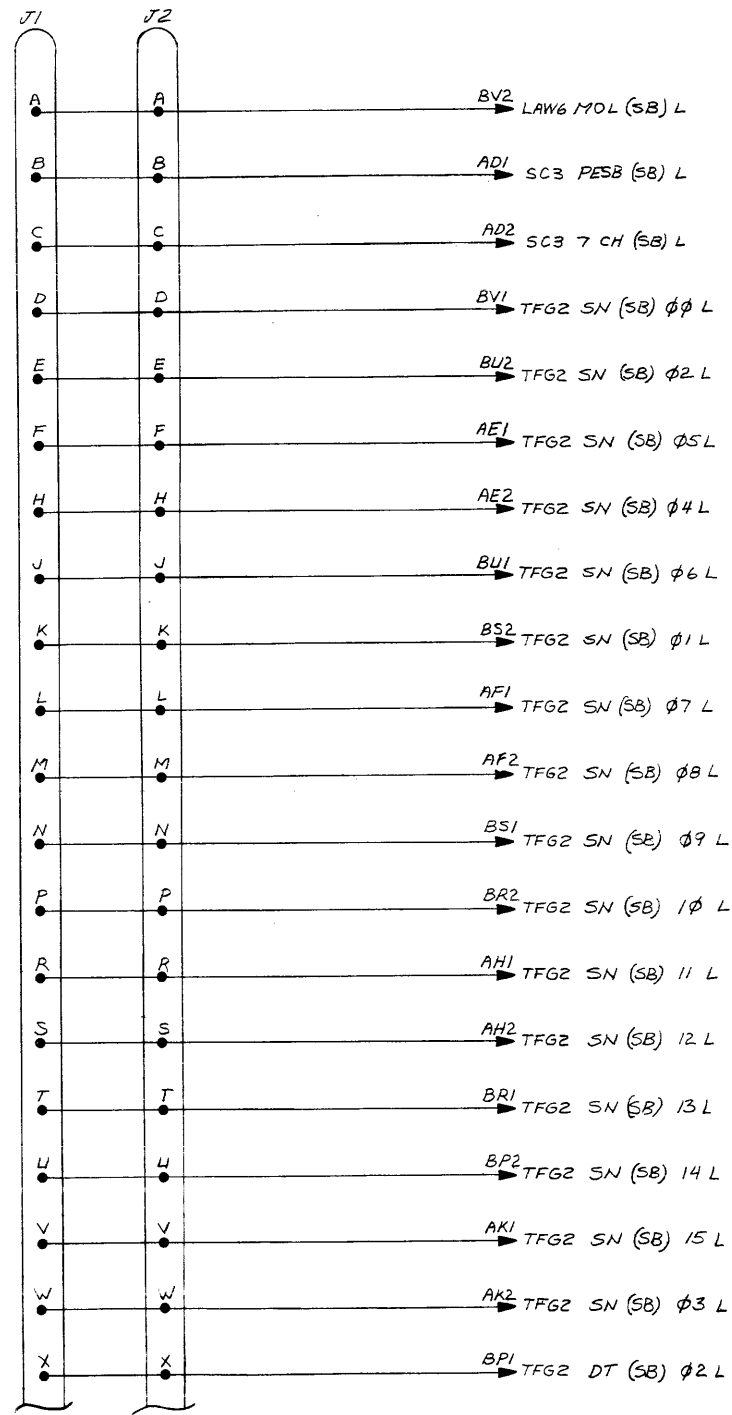
DCS M9001-YA-1 2

D

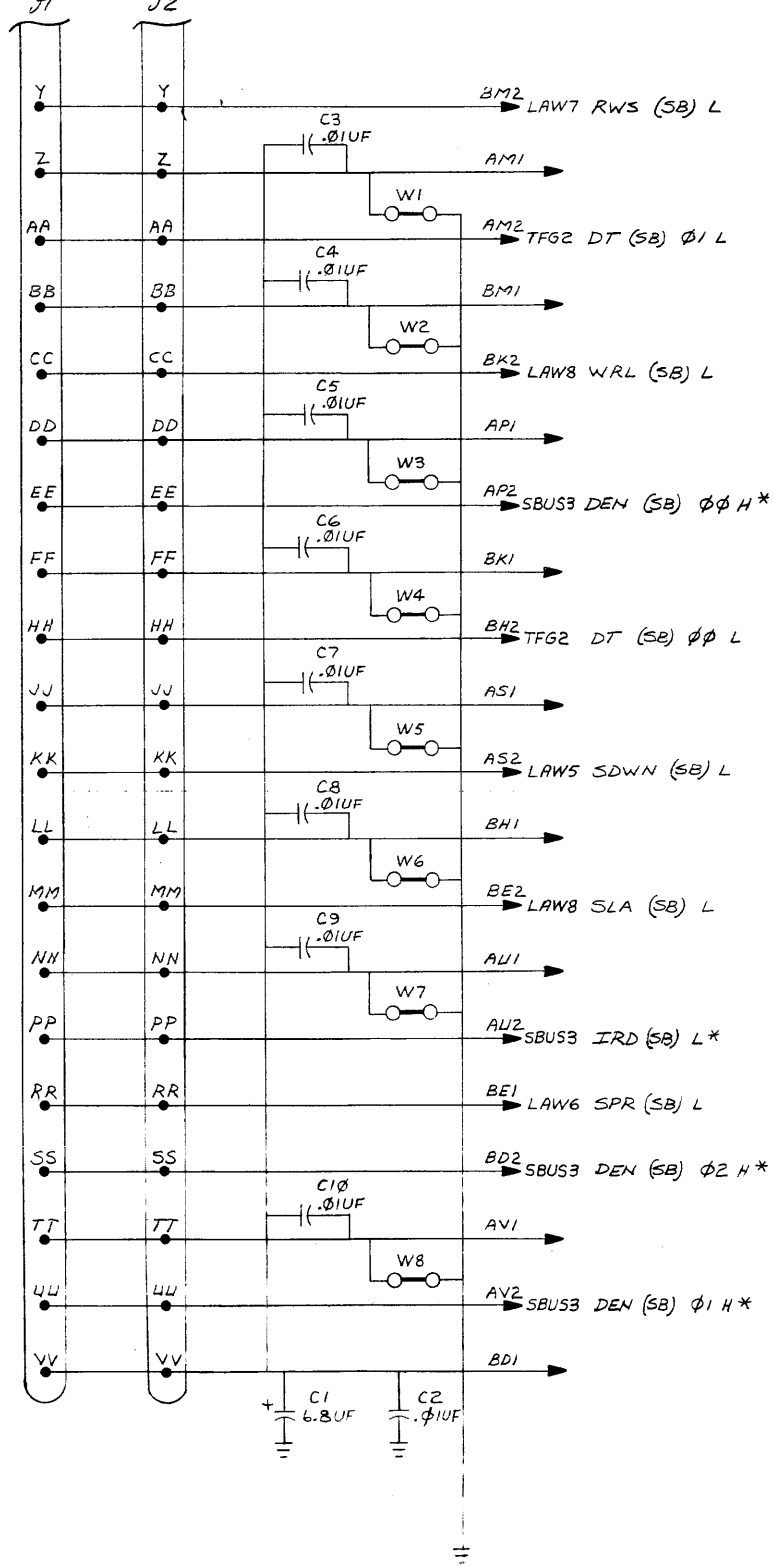
C

B

A



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



D

C

B

A

DCS M9001-YA-1 C

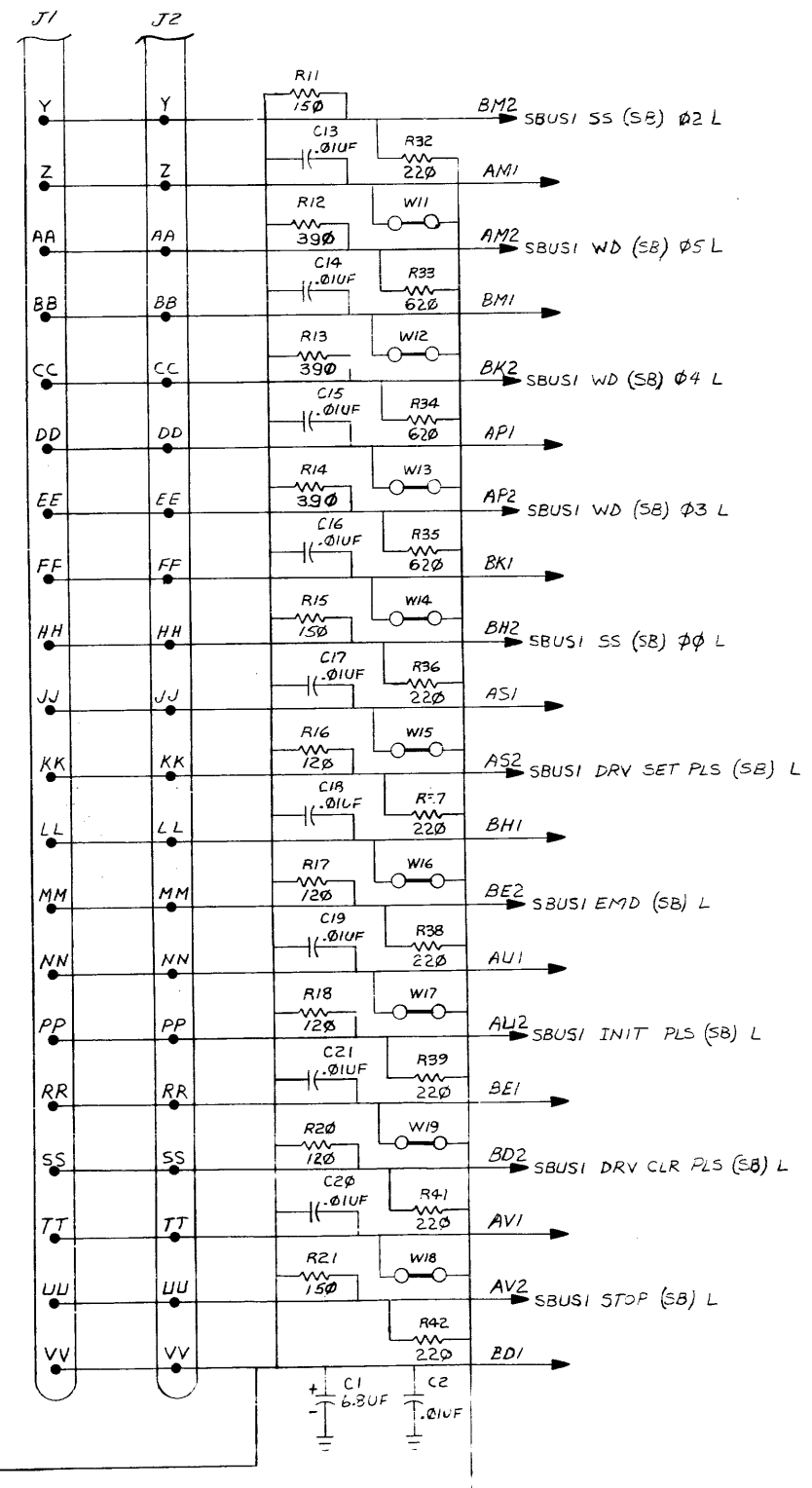
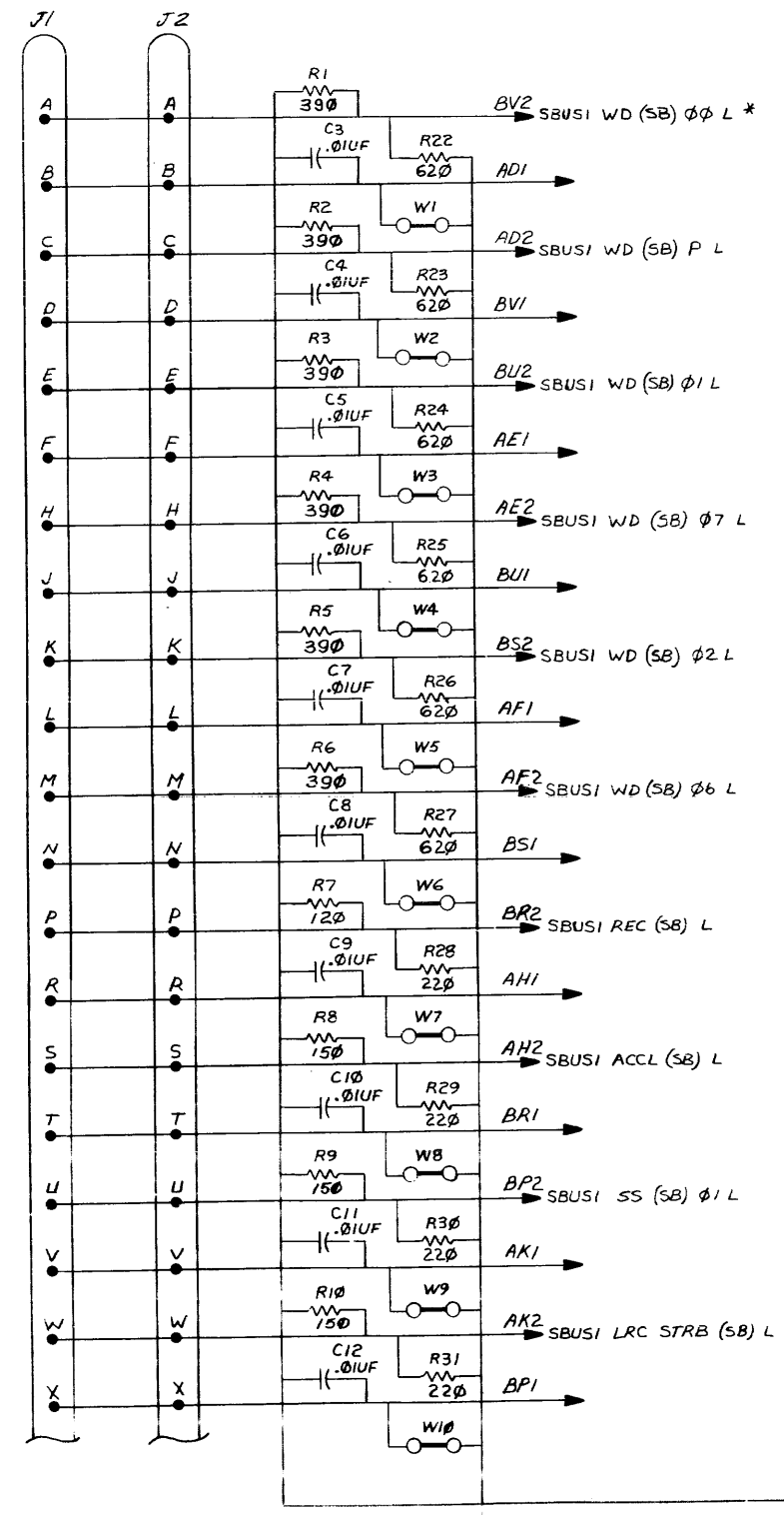
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE GEN PURPOSE CARD (E & F) SIZE CODE DCS NUMBER M9001-YA-1 REVISION C

SCALE SHEET 2 OF 2 DIST.



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\* NOTE: ALL SIGNALS ORIGINATE IN TM02

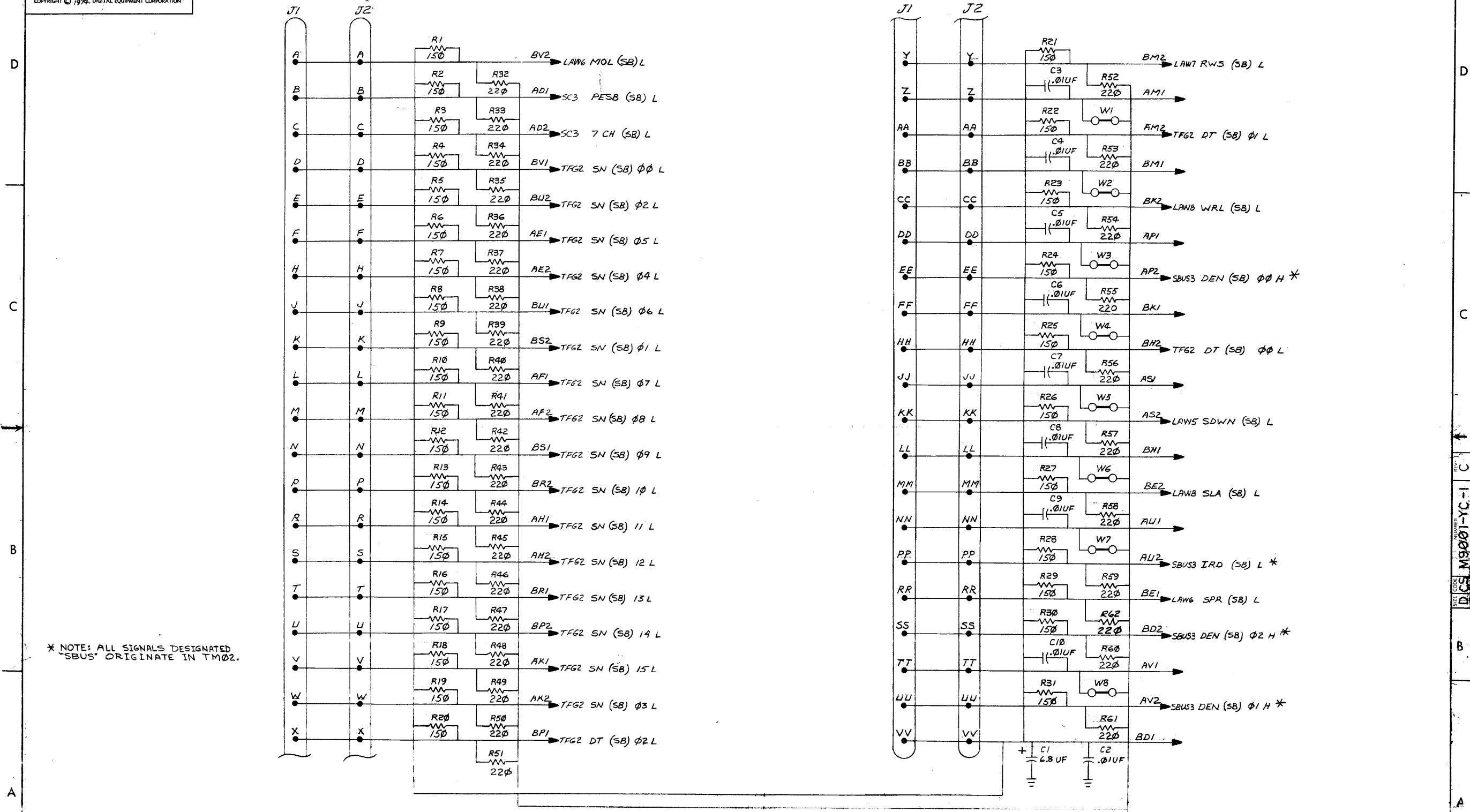
REVISIONS		
CHK	CHANGE NO	REV

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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DCS M9001-YC-1 2



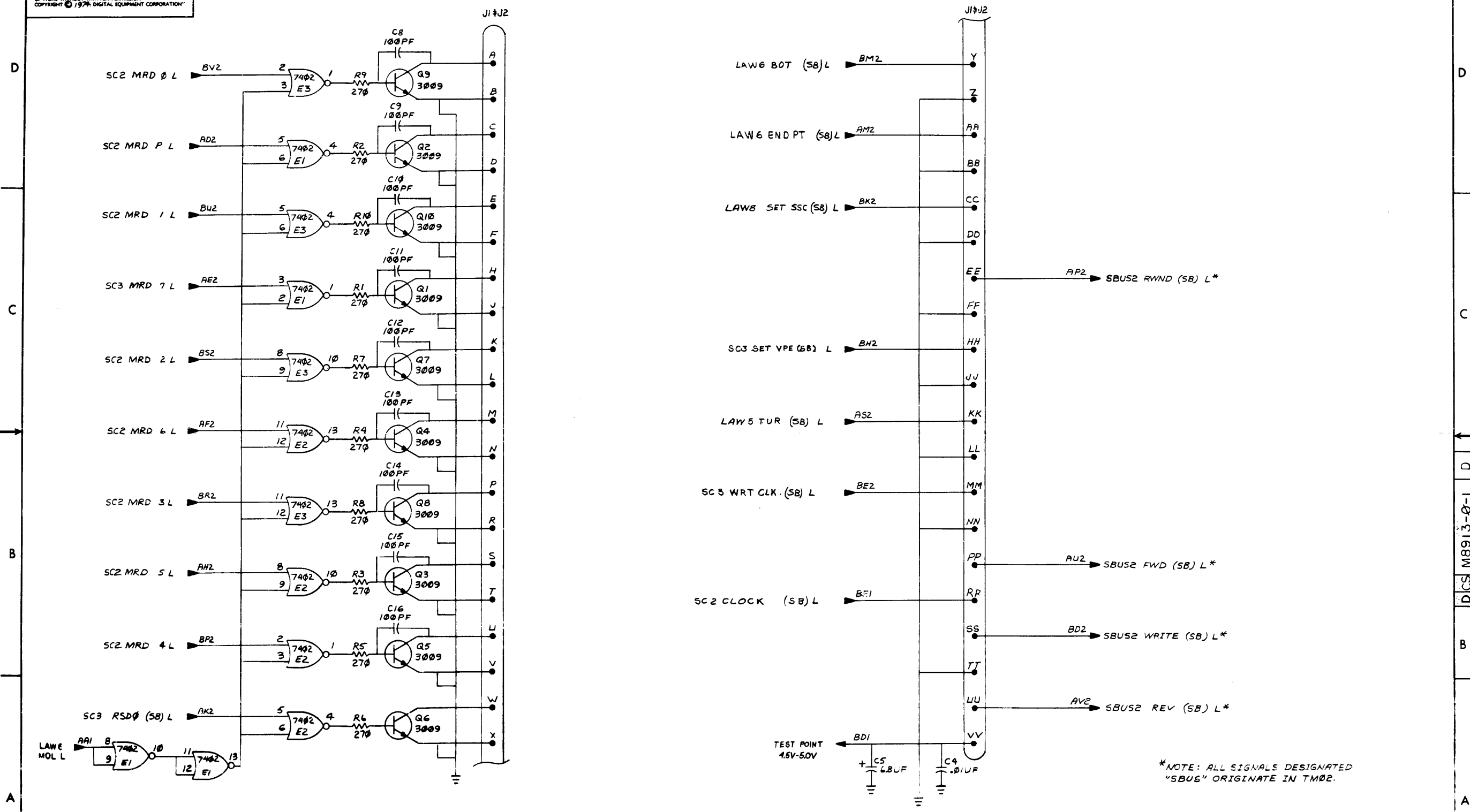
\* NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE GEN. PURPOSE. CARD (E & F) SIZE CODE DCS NUMBER M9001-YC-1 REV. C



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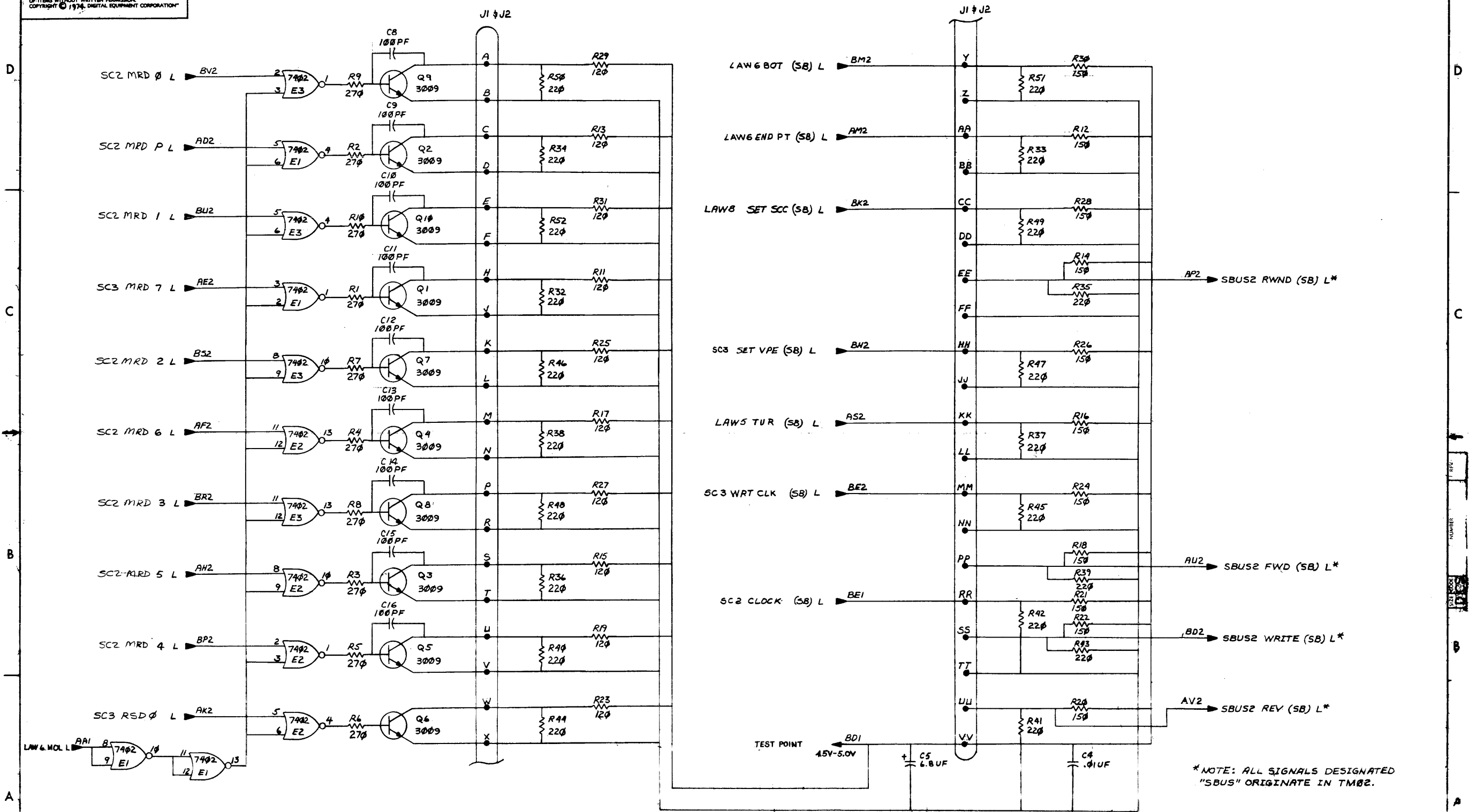
\*NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO	REV

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



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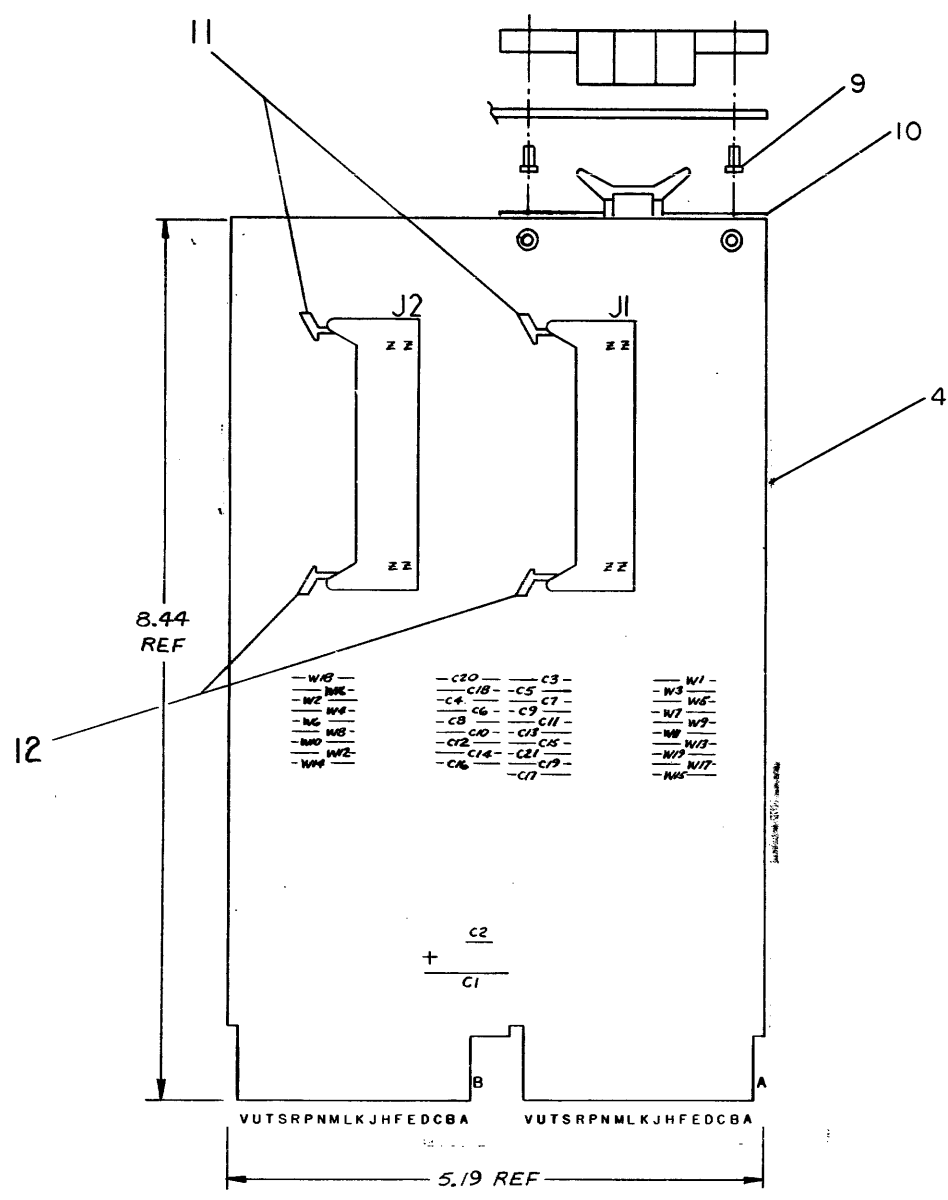


REVISIONS		
CHK	CHANGE NO.	REV.

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

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**NOTES:**



0 1-0-1006W S00 2

REF	X-Y COORDINATE HOLE LOCATION	K-CO-M9001-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M9001-0-5	2
REF	MODULE ECO HISTORY	B-MH-M9001-0-6	3
1	ETCHED CIRCUIT BOARD	5010465	4
20	C2 THRU C21	CAP .01UF 100V 20% AXIAL	1001610
1	C1	CAP 6.8UF 35V 10% TANT	1005306
19	W1 THRU W19	JUMPER, INSULATED WIRE	9009185
2	J1, J2	CONN, 40 PIN	1209941-2
4	EYELET	9006732	9
2	HANDLE, FLIP-CHIP, MAGENTA	9008337-6	10
2	LATCH, LEFT	1209941-3	11
2	LATCH, RIGHT	1209941-4	12

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

FIRST USED ON OPTION MODEL	TU16	ETCH BOARD REV	C
----------------------------	------	----------------	---

H. DRAB	9 JAN 76
M9001-00001	C
CHG	CHANGE NO.
REV	REVISIONS

DRN	DATE		
CHKD	DATE		
ENG	DATE		
PROJ. ENG.	DATE		
PROD.	DATE		
NEXT HIGHER ASSY			
DEC NO.	EIA NO.	DEC NO.	EIA NO.

**digital** EQUIPMENT CORPORATION  
NATANT, MASSACHUSETTS

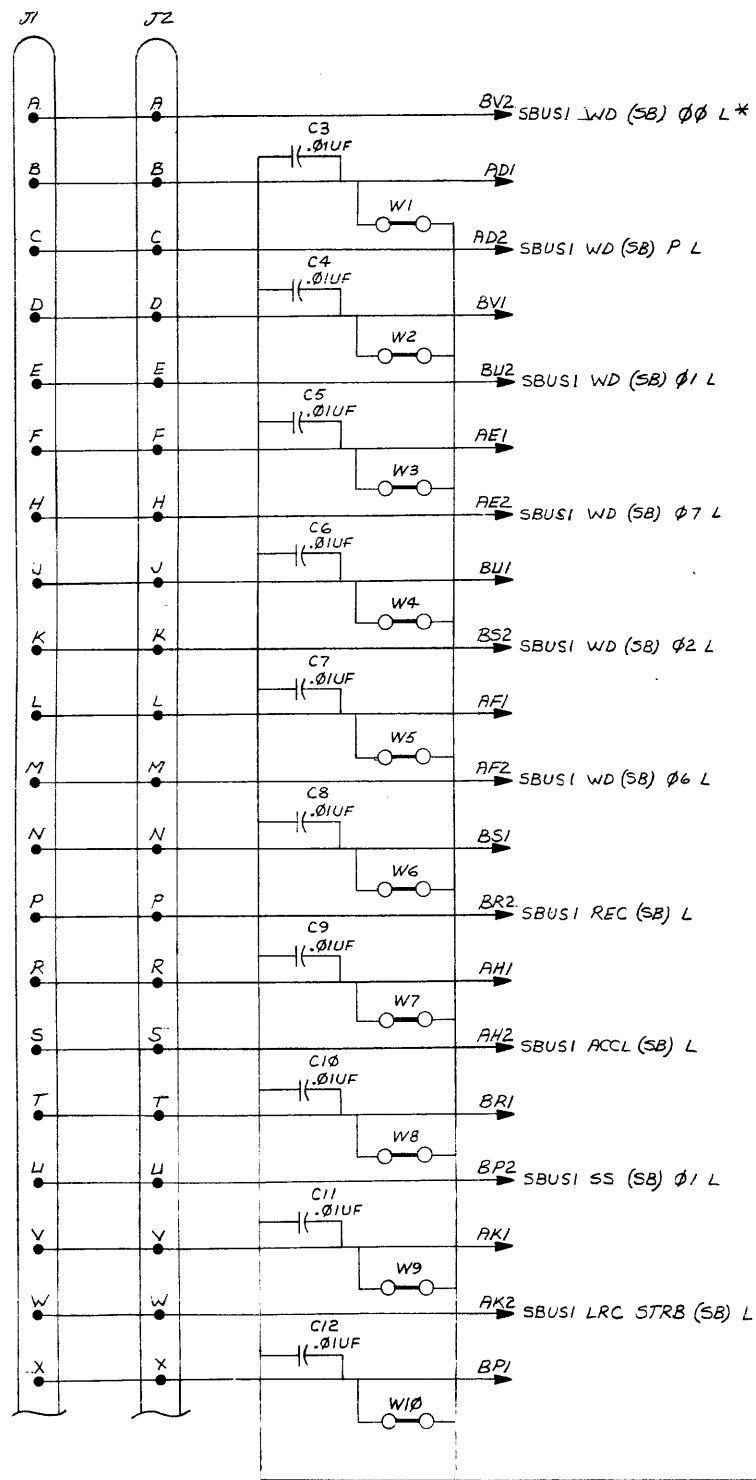
TITLE: GEN PURPOSE CARD (A & B)

SIZE CODE: DCS NUMBER: M9001-0-1 REV: C

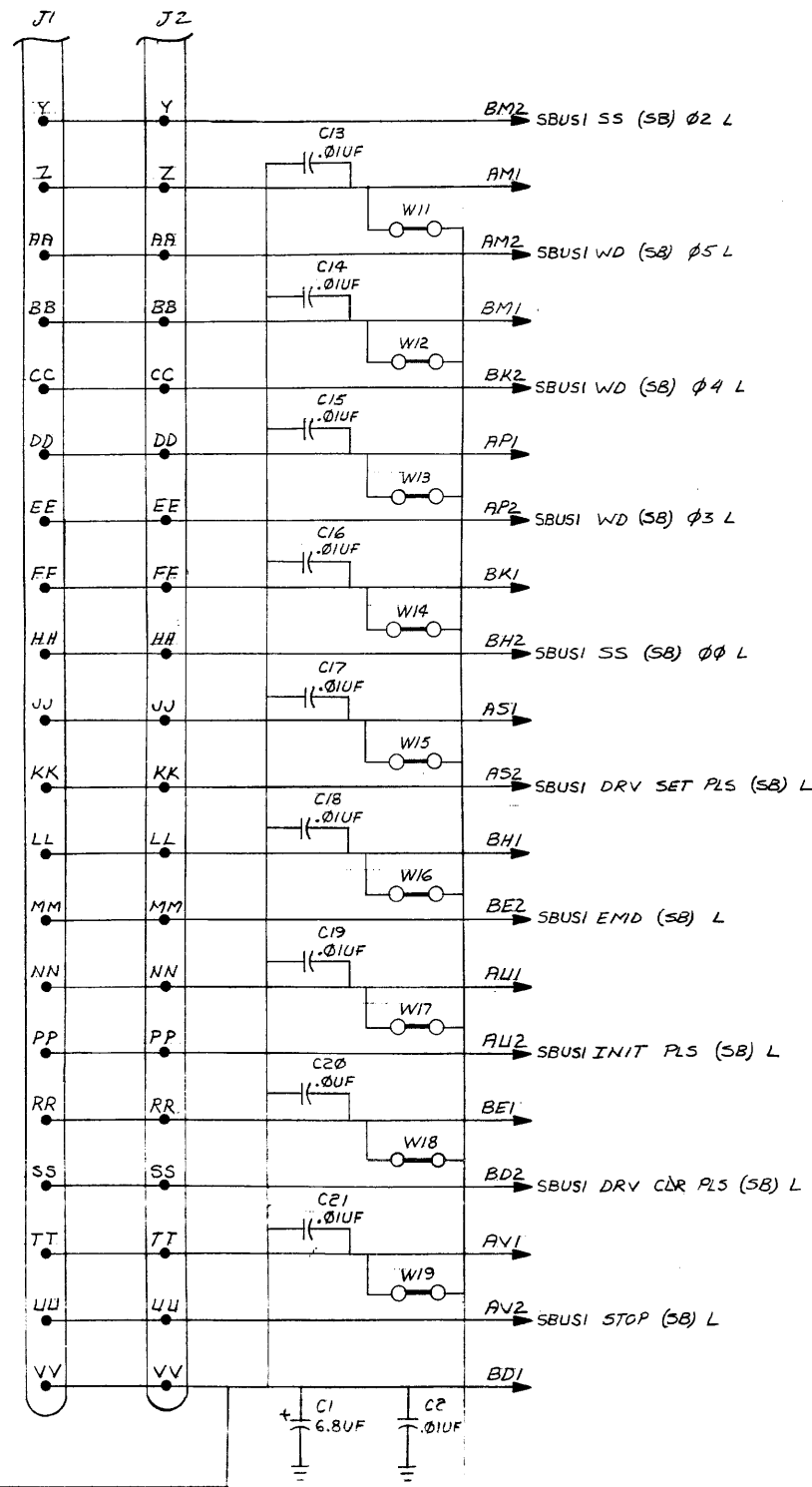
SCALE: + + + SHEET 1 OF 2

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

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\* NOTE: ALL SIGNALS ORIGINATE IN TM02.



REVISIONS		
CHK	CHANGE NO.	REV

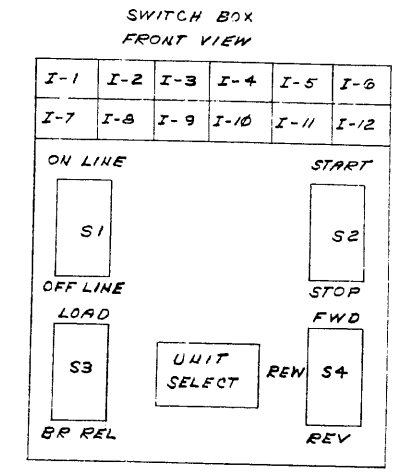
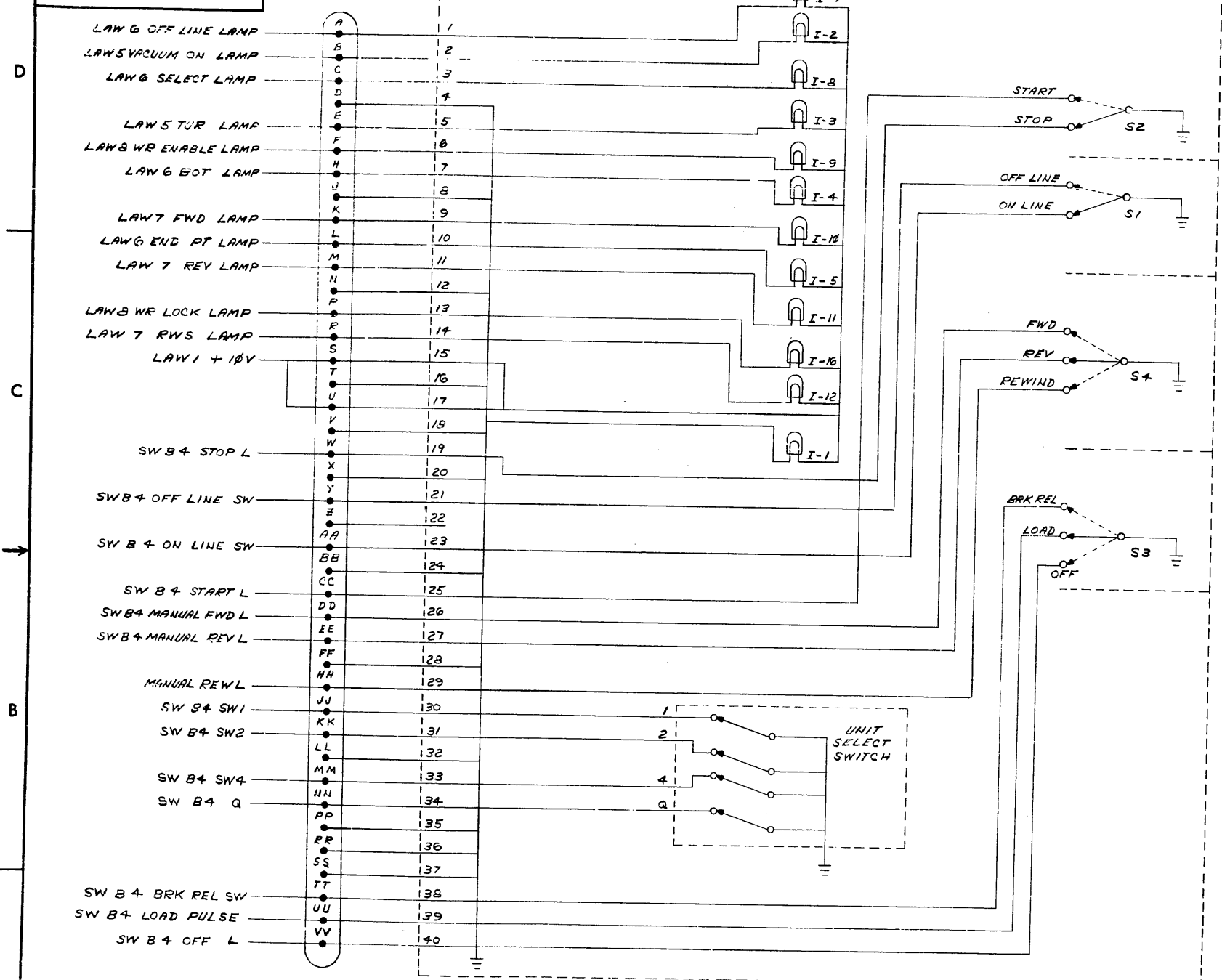
TITLE	GEN PURPOSE CARD (A & B)	SIZE CODE	DCS	NUMBER	M9001-0-1	REV.	C
SCALE	1" = 1"	SHEET	2	OF	2	DIST.	

REV. NUMBER M9001-0-1 C

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1-0284-002 2

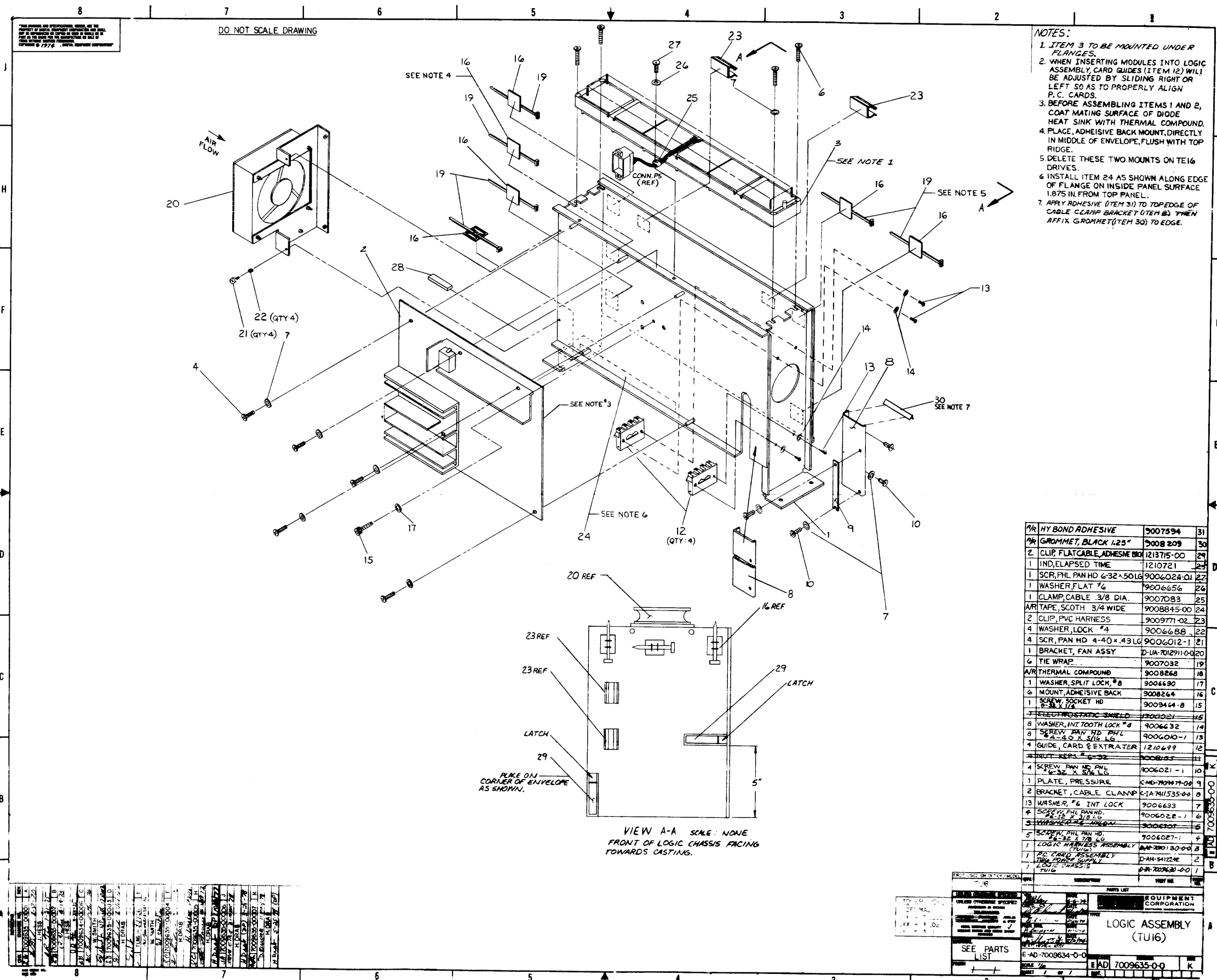
SWITCH BOX ASSEMBLY



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU16					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		digital			
MILLIMETERS	INCHES	ANGLES	TITLE		
XXX ±0.10	.XXX ±0.005	±0° 30'	WIRING CONTROL BOX		
XX ±0.05	.XX ±0.02		SIZE CODE		
X ±0.2	.X ±0.1		D-AD7009637-0-0		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL	FINISH	SCALE	SHEET	OF	DIST.
			1	OF	1

REV.	
CHK	
CHANGE NO.	

REV. NUMBER DC9700-4r-37-0-1



**NOTES:**

- ITEM 3 TO BE MOUNTED UNDER FLANGES.
- 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 DIODE HEAT SINK WITH THERMAL COMPOUND.
- PLACE ADHESIVE BACK MOUNT DIRECTLY IN MIDDLE OF ENVELOPE FLUSH WITH TOP RIDGE.
- DELETE THESE TWO MOUNTS ON TE16 DRIVES.
- INSTALL ITEM 24 AS SHOWN ALONG EDGE OF FLANGE ON INSIDE PANEL SURFACE 1.875 IN. FROM TOP PANEL.
- APPLY ADHESIVE (ITEM 31) TO TOP EDGE OF CABLE CLAMP BRACKET (ITEM 23) THEN AFFIX GROMMET (ITEM 30) TO EDGE.

1/8" HYBOND ADHESIVE	9007594	31
1/8" GROMMET, BLACK 1.25"	9008209	30
2 CLIP, FLAT CABLE ADHESIVE BACK	1213715-00	24
1 IND, ELAPSED TIME	1210721	23
1 SCR, PAN HD 6-32 X 50 LG	9006024-01	22
1 WASHER, FLAT 7/6	9006656	21
1 CLAMP, CABLE 3/8 DIA.	9007083	20
1/8" TAPE, SCOTCH 3/4 WIDE	9008845-00	19
2 CLIP, PVC HARNESS	9009771-02	18
4 WASHER, LOCK #4	9006688	17
4 SCR, PAN HD 4-40 X .43 LG	9006012-1	16
1 BRACKET, FAN ASSY	D-1A-7012911-00	15
6 TIE WRAP	9007032	14
1/8" THERMAL COMPOUND	9008268	13
1 WASHER, SPLIT LOCK #8	9006690	12
6 MOUNT, ADHESIVE BACK	9008264	11
1 SCREW SOCKET HD 2-38 X 1/2	9009464-B	10
7 ELECTROSTATIC SHIELD	9006021	9
8 WASHER, INT TOOTH LOCK #8	9006632	8
8 SCREW PAN HD PHIL 4-40 X 5/16 LG	9006010-1	7
4 GUIDE, CARD & EXTRATER	1210699	6
1 PLATE KEYS 6-32	9006021	5
4 SCREW PAN HD PHIL 4-40 X 5/16 LG	9006021-1	4
1 PLATE, PRESSURE	CMD-709979-00	3
2 BRACKET, CABLE CLAMP	C-1A-701535-00	2
13 WASHER #6 INT LOCK	9006633	1
4 SCREW PAN HD PHIL 4-40 X 5/16 LG	9006022-1	0
5 WASHER #6 INT LOCK	9006633	0
5 SCREW PAN HD 4-40 X 5/16 LG	9006021-1	0
1 LOGIC HARNESS ASSEMBLY	D-1A-70130-00	0
1 P.C. CARD ASSEMBLY	D-1A-54122-00	0
1 LOGIC CHASSIS TU16	D-1A-7009634-0-0	0

VIEW A-A SCALE: NONE  
FRONT OF LOGIC CHASSIS FACING TOWARDS CASTING.

1	LOGIC CHASSIS TU16	D-1A-7009634-0-0	1
2	P.C. CARD ASSEMBLY	D-1A-54122-00	1
3	PLATE, PRESSURE	CMD-709979-00	1
4	SCREW PAN HD PHIL 4-40 X 5/16 LG	9006021-1	4
5	SCREW PAN HD 4-40 X 5/16 LG	9006021-1	5
6	GUIDE, CARD & EXTRATER	1210699	4
7	SCREW PAN HD PHIL 4-40 X 5/16 LG	9006010-1	8
8	WASHER, INT TOOTH LOCK #8	9006632	8
9	ELECTROSTATIC SHIELD	9006021	7
10	SCREW SOCKET HD 2-38 X 1/2	9009464-B	1
11	MOUNT, ADHESIVE BACK	9008264	6
12	WASHER, SPLIT LOCK #8	9006690	1
13	THERMAL COMPOUND	9008268	1
14	TIE WRAP	9007032	6
15	BRACKET, FAN ASSY	D-1A-7012911-00	1
16	SCREW PAN HD 4-40 X .43 LG	9006012-1	4
17	WASHER, LOCK #4	9006688	4
18	CLIP, PVC HARNESS	9009771-02	2
19	TAPE, SCOTCH 3/4 WIDE	9008845-00	1
20	CLAMP, CABLE 3/8 DIA.	9007083	1
21	WASHER, FLAT 7/6	9006656	1
22	IND, ELAPSED TIME	1210721	1
23	CLIP, FLAT CABLE ADHESIVE BACK	1213715-00	2
24	SCREW PAN HD 6-32 X 50 LG	9006024-01	1
25	CONN. PS (REF)		1
26	SCREW PAN HD 4-40 X 5/16 LG	9006021-1	4
27	SCREW PAN HD 4-40 X 5/16 LG	9006021-1	4
28	CLIP, PVC HARNESS	9009771-02	2
29	LATCH		1
30	GROMMET, BLACK 1.25"	9008209	1
31	HYBOND ADHESIVE	9007594	1

LOGIC ASSEMBLY (TU16)

EQUIPMENT CORPORATION

7009635-0-0

DATE: 10/25/64

SCALE: 1/1

SEE PARTS LIST

8

7

6

5

4

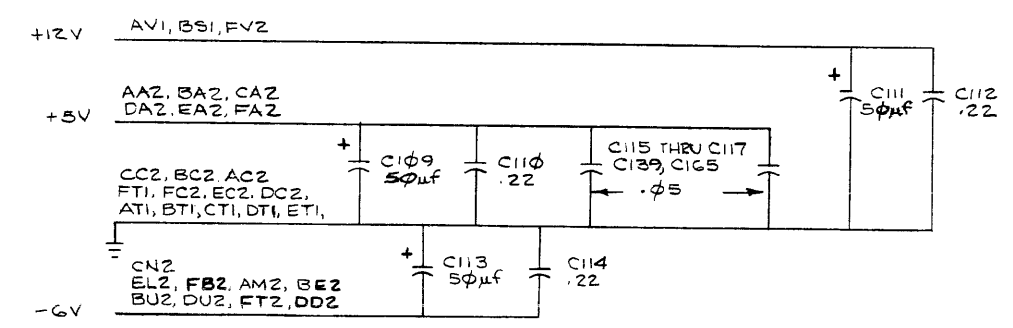
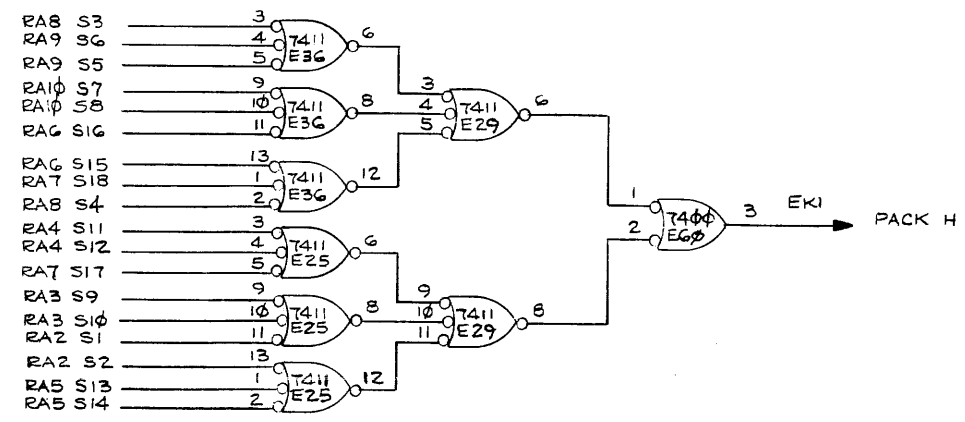
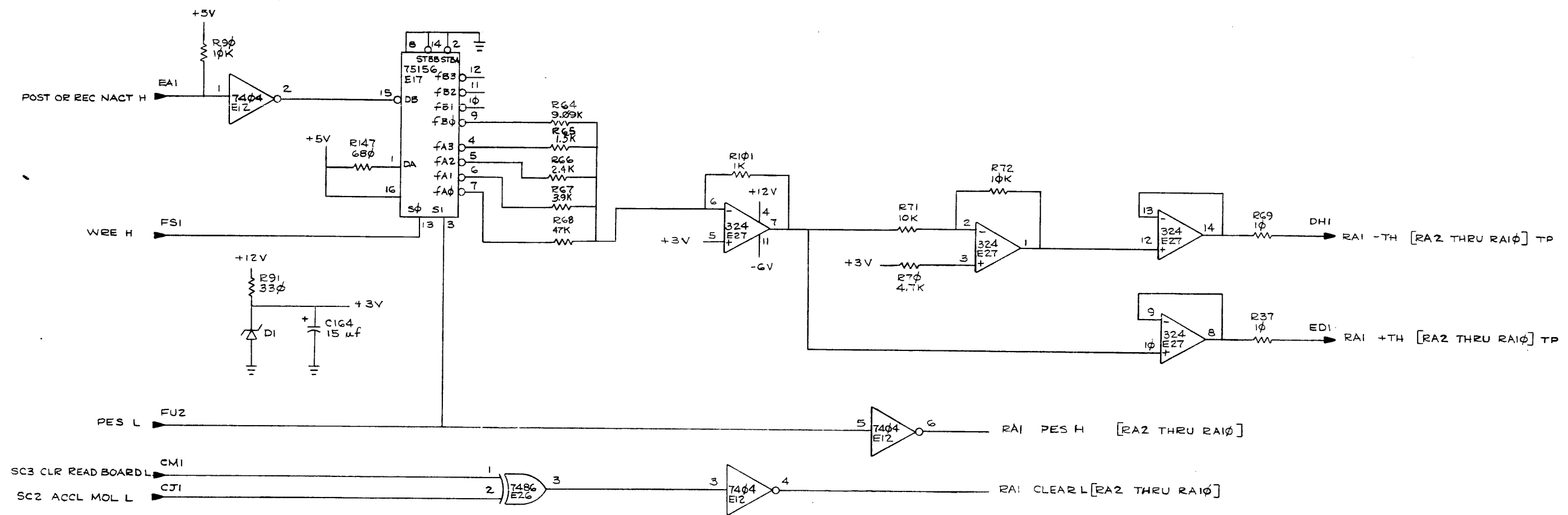
3

1-0-9909 SO 2

1

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



REV.	CHG.	NO.	DATE	BY	CHKD.
1					
2					
3					
4					
5					
6					
7					
8					

DRN	8/17/76	FIRST USED ON	TU16
CHK'D	10/21/76	TITLE	9TK TU16 READ AMP (RA1)
ENG.	11/2/76	SCALE	1:1
PROJ. ENG.	11/2/76	SCALE	1:1
PROD.	11/2/76	SCALE	1:1
NEXT HIGHER ASSY.		SIZE CODE	D CS
0-0A-6066-0-0		NUMBER	G066-0-1
SCALE	1:1	DIST.	
SHEET	1 OF 10	REV.	F

REV. F  
G066-0-1  
D CS

8

7

6

5

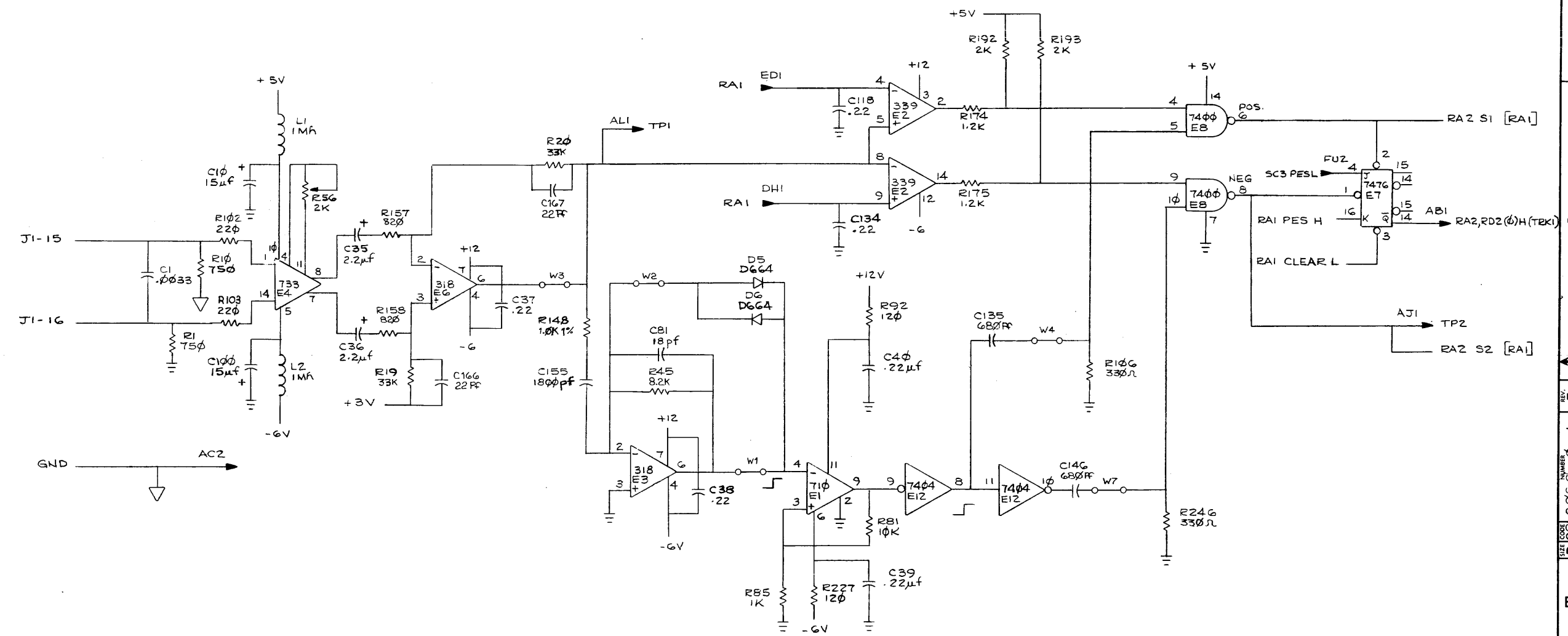
4

3

2

1

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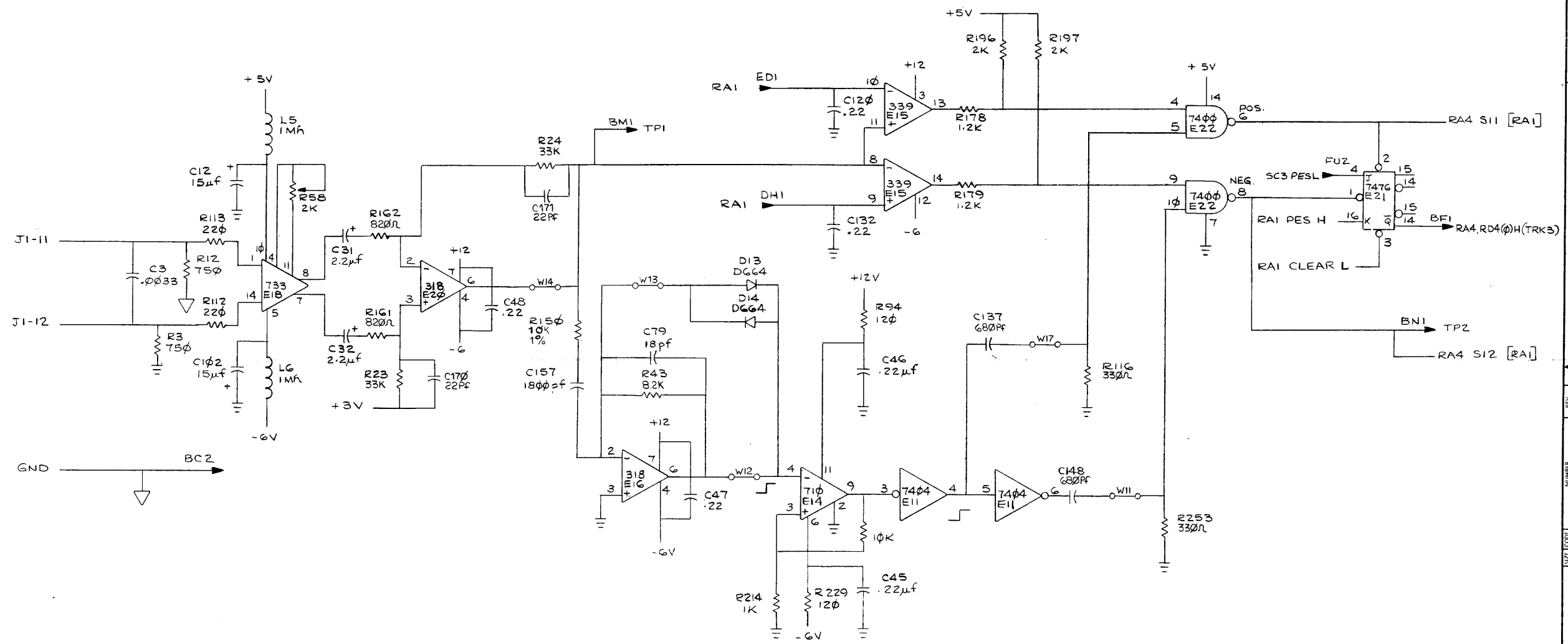


REVISIONS		
CHK	CHANGE NO.	REV.



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1-0-9909 SCS 2



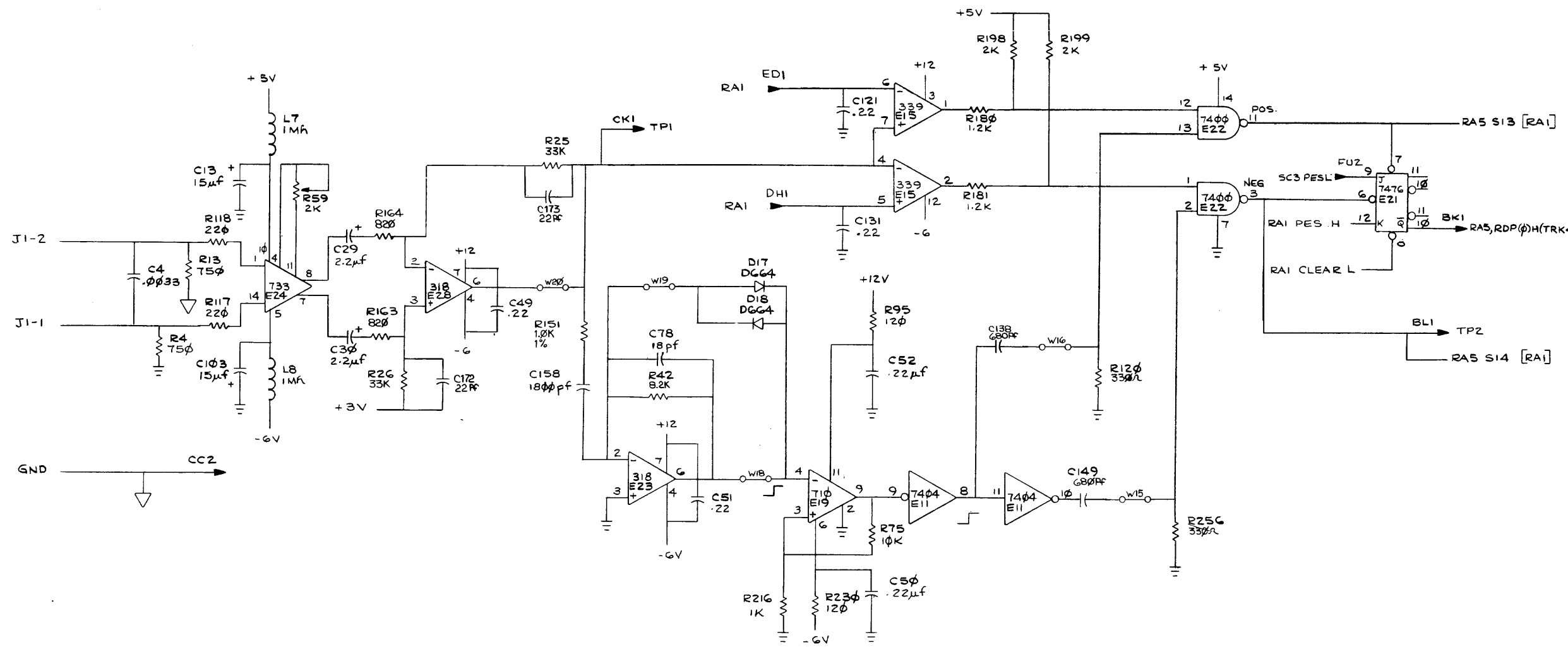
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 9TK TU16 READ AMP (RA4) SIZE CODE DCS G066-0-1 NUMBER REV. F  
 SCALE SHEET 4 OF 10 DIST

REV. F  
 NUMBER G066-0-1  
 SIZE DCS

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DCS 0066-0-1 2

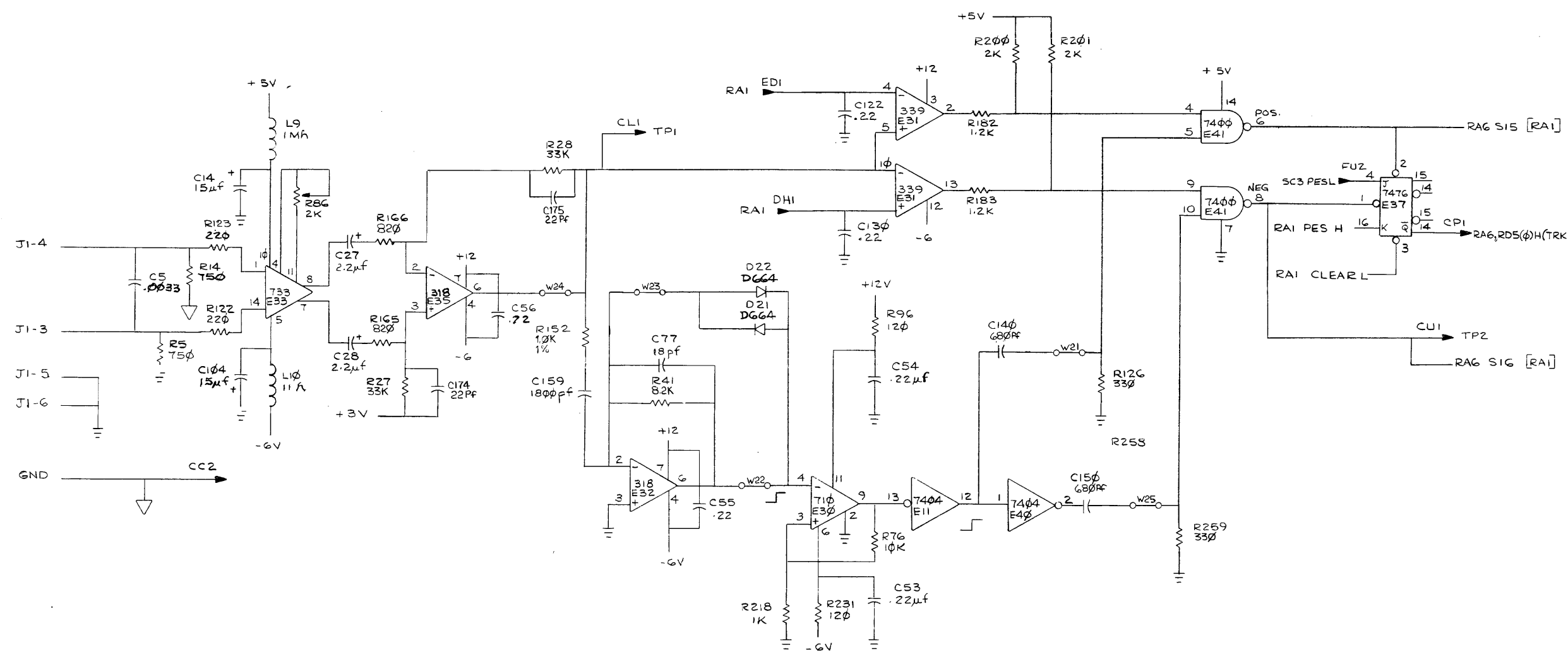


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE 9TK TU16 READ AMP (RA5) SIZE CODE DCS NUMBER 0066-0-1 REV. F  
 SCALE SHEET 5 OF 10 DIST.

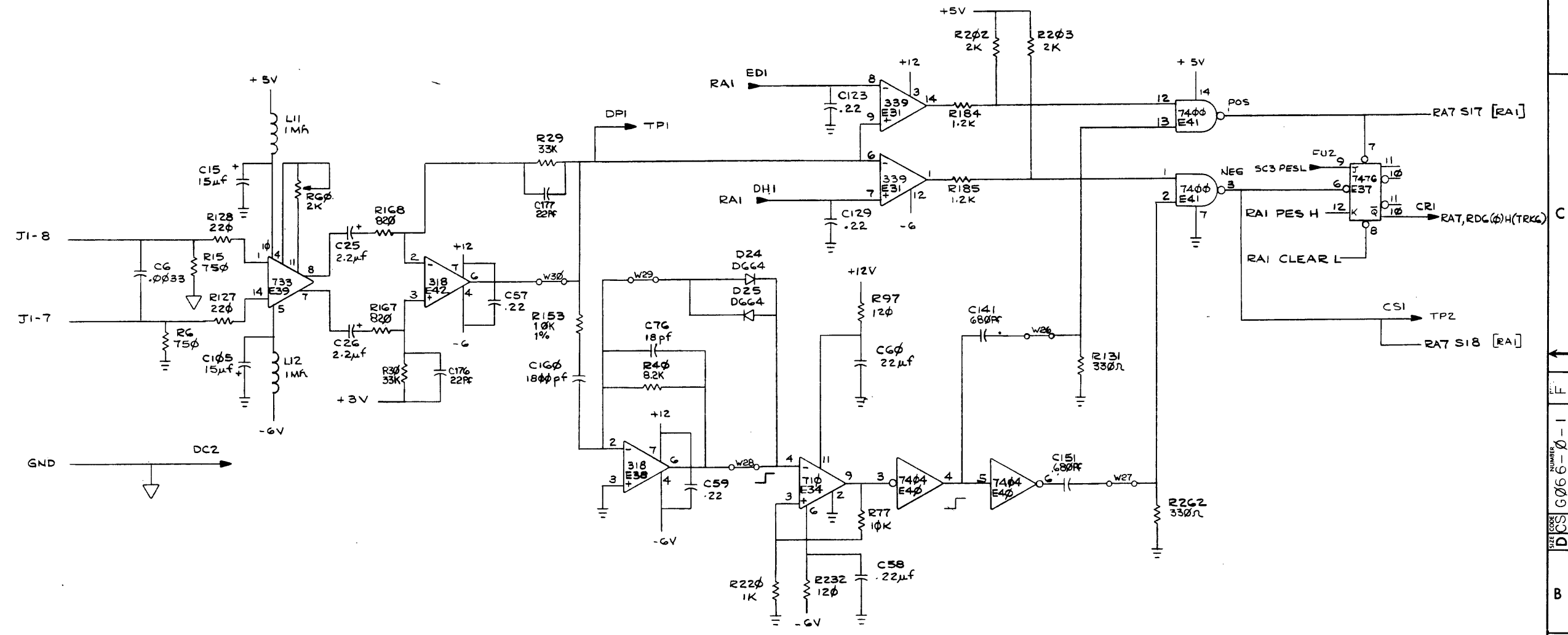
REV. 1  
 NUMBER 0066-0-1  
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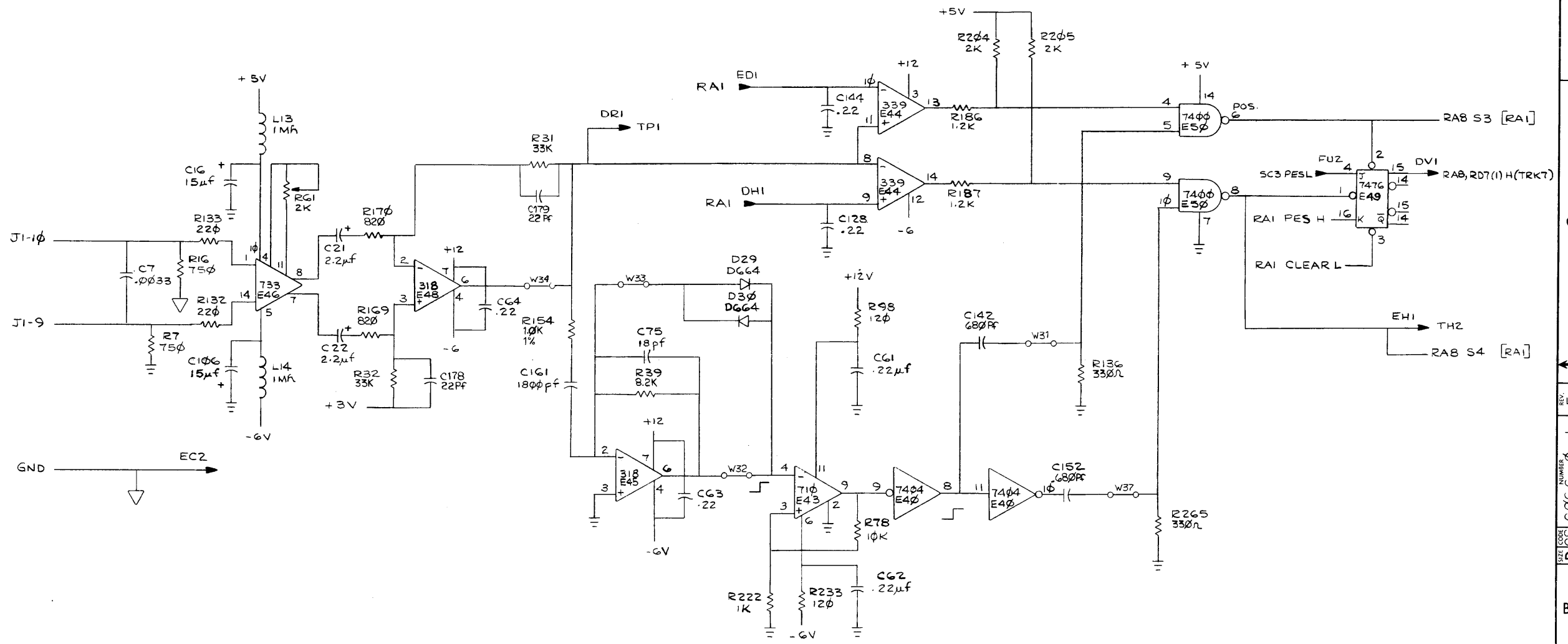


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RA7)	SIZE CODE	DCS 606-0-1	NUMBER	1	REV.	F
SCALE	1:1	SHEET	7	OF	10	DIST.	

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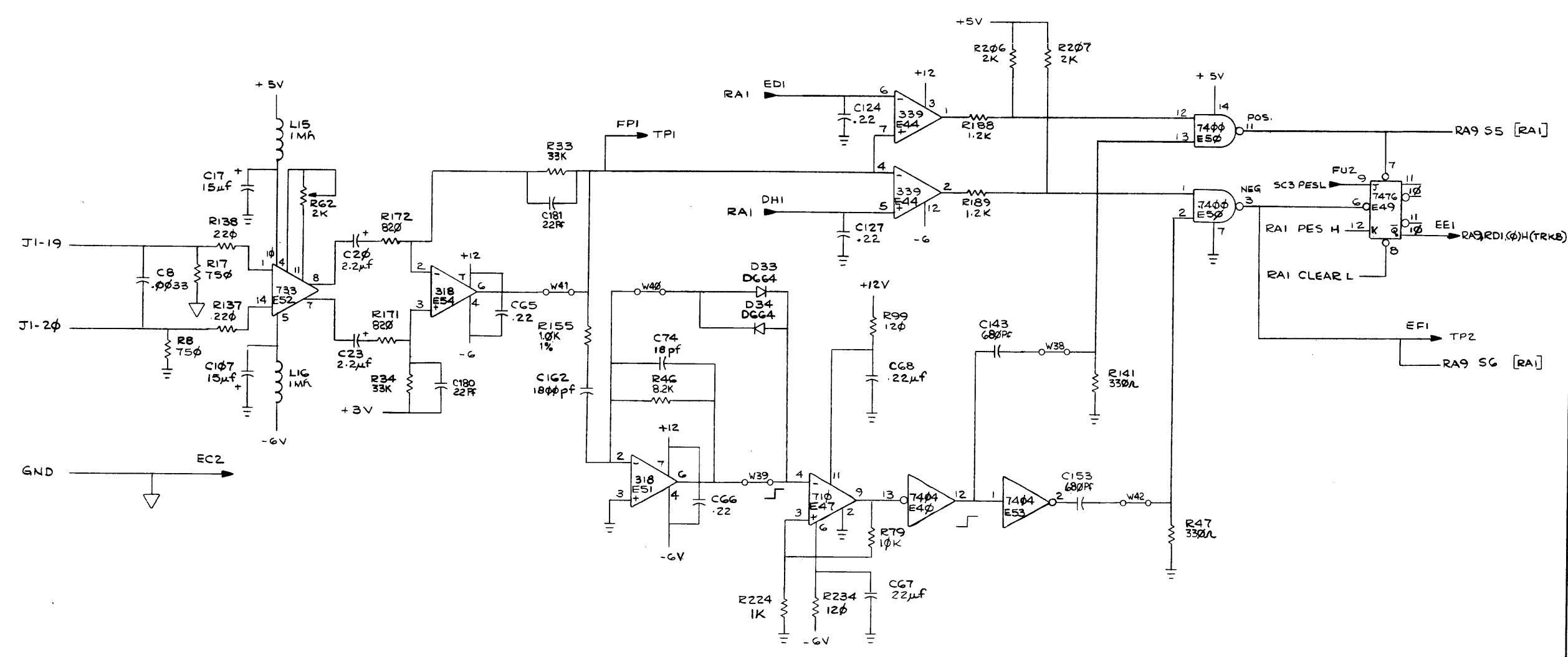


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RAB)	SIZE CODE	DCS 6066-0-1	NUMBER	1	REV.	F
SCALE	1:1	SHEET	B	OF	10	DIST.	

REV. F  
NUMBER 6066-0-1  
SIZE CODE DCS

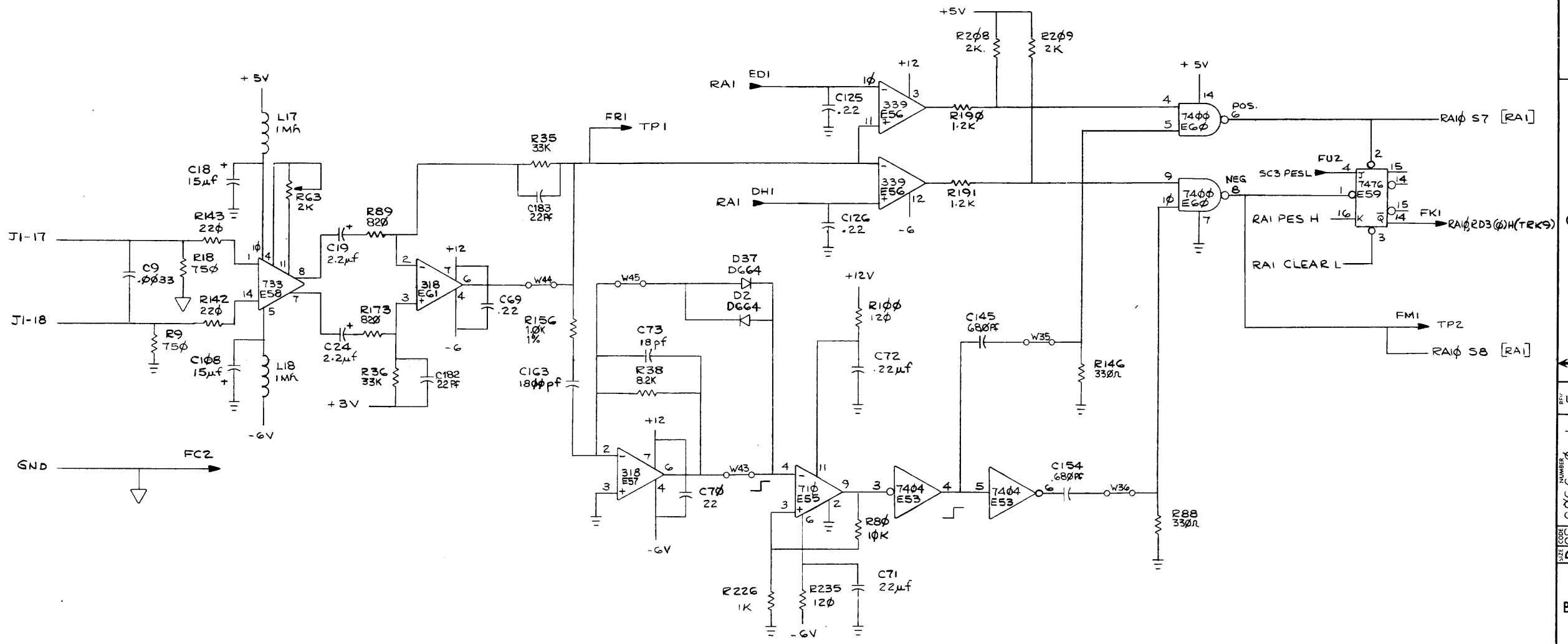
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CHK	CHANGE NO.	REV.

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JCS 0666-0-1 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RA10)	SIZE CODE	NUMBER	REV.
SCALE	1:1	DCS	G066-0-1	F
SHEET	10	DIST.		

D E F A B A

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B  
A

B  
A

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUI6				
PARTS LIST				
DRN. <i>D. Schmitt</i>	DATE <i>2/20/74</i>	 <b>digital EQUIPMENT CORPORATION</b> <small>MAYNARD, MASSACHUSETTS</small> TITLE <h1 style="margin: 0;">WIRE LIST</h1> <h2 style="margin: 0;">(TUI6)</h2>		
CHK'D. <i>D. Schmitt</i>	DATE <i>2/24/74</i>			
ENG. <i>J.R. Foss</i>	DATE <i>2-20-74</i>			
PROB. ENG. <i>J.R. Foss</i>	DATE <i>2-20-74</i>			
PROD. <i>DA Smith</i>	DATE <i>5-31-74</i>			
NEXT HIGHER ASSEMBLY				
D-AD-7009605-0-0		SIZE CODE	NUMBER	REV.
SCALE <i>1/1</i>	K WL	TUI6-Ø-WL	F	
SHEET	OF	DIST.		

REVISIONS	CHANGE NO.	REV.
<i>J.P.</i>	TUI6-00010	A
<i>W. Dwyer 5-5-75</i>		
<i>J. HESS</i>		
<i>J.R. Foss</i>	5-7-75	
<i>J.P.</i>	TUI6-00013	B
<i>W. Dwyer 7-25-75</i>		
<i>J. HESS</i>		
<i>John R. Foss</i>	7-10-75	
<i>J.P.</i>	TUI6-00021	C
<i>P. Brown 25 JUNE 76</i>		
<i>H. DRAB</i>		
<i>J.P.</i>	6 Jul 76	
<i>J.P.</i>	TUI6-00022	D
<i>H. Drab 2 Aug 76</i>		
<i>J.P.</i>	2 Aug 76	
<i>AK</i>	TUI6-00027	E
<i>K.T.</i>	TUI6-00030	F
<i>B. Chissem 3 MAR. 77</i>		
<i>H. Drab 3-9-77</i>		

TU16.F RUN NAME	WRAPD .V35(74)-1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW RV RG Y X Z OPT	REMARKS	24-Feb-77	13100 NC LENGTH FLAG	PAGE 1 EXCEPTIONS	RUN NUMBER
+12V	.A04V						1-PIN RUN	1
+5V	B04A2	1-01 *				N 3-5/8		2
+5V	B02V1	1-02 *						2
+5V		1				3-5/8		2
-6V	A01A1	1-01 *				N 2-7/8		3
-6V	A04M2	1-02 *						3
-6V		1				2-7/8		3
1ST ONE SHOT L	A03S1	1-01 *				N 8-1/8		4
1ST ONE SHOT L	D02K1	1-02 *						4
1ST ONE SHOT L		1				8-1/8		4
3RD ONE SHOT H	B03B2	1-01 *				N 0-5/8		5
3RD ONE SHOT H	B03C1	1-02 *						5
3RD ONE SHOT H		1				0-5/8		5
4TH ONE SHOT H	A03U1	1-01 *				N 8-1/8		6
4TH ONE SHOT H	D02M1	1-02 *						6
4TH ONE SHOT H		1				8-1/8		6
4TH ONE SHOT L	B03F1	1-01 *				N 2-1/8		7
4TH ONE SHOT L	B03V2	1-02 *						7
4TH ONE SHOT L		1				2-1/8		7
7CH (SB) L	C03L2	1-01 *				N 5-7/8		8
7CH (SB) L	E01D2	1-02 *						8
7CH (SB) L		1				5-7/8		8
7TRK H	C03T1	1-01 *				N 0-4/8		9
7TRK H	C03T2	1-02 *						9
7TRK H		1				0-4/8		9
ACCL (SB) L	A01H2	1-01 *				N 7-3/8		10
ACCL (SB) L	C03P2	1-02 *						10
ACCL (SB) L		1				7-3/8		10
ACCL L	C04J1	1-01 *				N 2		11
ACCL L	C03U1	1-02 *						11
ACCL L		1				2-0/8		11
B01 (SB) L	D01M2	1-01 *				N 6-5/8		12
B01 (SB) L	B02H2	1-02 *						12
B01 (SB) L		1				6-5/8		12
B01 H	C02H1	1-01 *				N 3-5/8		13
B01 H	D03F1	1-02 *						13
B01 H		1				3-5/8		13
CLEAR READ BOARD L	C03V1	1-01 *				N 1-5/8		14
CLEAR READ BOARD L	C04M1	1-02 *						14
CLEAR READ BOARD L		1				1-5/8		14

TU16.F RUN NAME	WRAPD .V35(74)-1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW RV RG Y X Z OPT	REMARKS	24-Feb-77	13100 NC LENGTH FLAG	PAGE 2 EXCEPTIONS	RUN NUMBER
CLK L	D01A1	1-01 *				N 1		15
CLK L	D02C1	1-02 *				N 1		15
CLK L	D03C1	1-03 *						15
CLK L		1				2-0/8		15
CLOCK (SB) L	D01E1	1-01 *				N 3-4/8		16
CLOCK (SB) L	C03M2	1-02 *						16
CLOCK (SB) L		1				3-4/8		16
DEN (SB) 00 H	C03J2	1-01 *				N 7-3/8		17
DEN (SB) 00 H	E01P2	1-02 *						17
DEN (SB) 00 H		1				7-3/8		17
DEN (SB) 01 H	D03E1	1-01 *				N 5-1/8		18
DEN (SB) 01 H	E01V2	1-02 *						18
DEN (SB) 01 H		1				5-1/8		18
DEN (SB) 02 H	C03U2	1-01 *				N 7-5/8		19
DEN (SB) 02 H	F01D2	1-02 *						19
DEN (SB) 02 H		1				7-5/8		19
DRV CLR PLS (SB) L	B01D2	1-01 *				N 7-7/8		20
DRV CLR PLS (SB) L	E02A1	1-02 *						20
DRV CLR PLS (SB) L		1				7-7/8		20
DRV SET PLS (SB) L	A01S2	1-01 *				N 1		21
DRV SET PLS (SB) L	A02S2	1-02 *						21
DRV SET PLS (SB) L		1				1-0/8		21
DT (SB) 00 L	F01H2	1-01 *				N 1-4/8		22
DT (SB) 00 L	F03H2	1-02 *						22
DT (SB) 00 L		1				1-4/8		22
DT (SB) 01 L	E01M2	1-01 *				N 1-6/8		23
DT (SB) 01 L	E03V1	1-02 *						23
DT (SB) 01 L		1				1-6/8		23
DT (SB) 02 L	F01P1	1-01 *				N 2-1/8		24
DT (SB) 02 L	F03K2	1-02 *						24
DT (SB) 02 L		1				2-1/8		24
DT L	F03A1	1-01 *				N 1-3/8		25
DT L	F03J1	1-02 *				N 1-4/8		25
DT L	F03T1	1-03 *						25
DT L		1				2-7/8		25
EMD (SB) L	B01E2	1-01 *				N 5-1/8		26
EMD (SB) L	C03S2	1-02 *						26
EMD (SB) L		1				5-1/8		26
END PT (SB) L	C01M2	1-01 *				N 5-7/8		27
END PT (SB) L	A02P2	1-02 *						27
END PT (SB) L		1				5-7/8		27

TU16.F RUN NAME	WRAPD .V35(74)=1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW RV RG Y X Z	REMARKS	24-Feb-77	13108 NC LENGTH FLAG	PAGE 3 EXCEPTIONS	RUN NUMBER
FWD (SB) L	A02U2	1-01 *				N 6-1/8		28
FWD (SB) L	C01U2	1-02 *						28
FWD (SB) L		1				6-1/8		28
FWD H	D03D1	1-01 *				N 4-3/8		29
FWD H	E02N1	1-02 *						29
FWD H		1				4-3/8		29
GND	F03C1	1-01 *				N 0-4/8		30
GND	F03C2	1-02 *				N 0-5/8		30
GND	F03F1	1-03 *						30
GND		1				1-1/8		30
INIT L	B03N2	1-01 *				N 8-7/8		31
INIT L	E02R2	1-02 *						31
INIT L		1				8-7/8		31
INIT PLS (SB) L	A01U2	1-01 *				N 9-7/8		32
INIT PLS (SB) L	E02F1	1-02 *						32
INIT PLS (SB) L		1				9-7/8		32
INTERCHG READ L	D03J1	1-01 *				N 2-3/8		33
INTERCHG READ L	E04A1	1-02 *				N 4-3/8		33
INTERCHG READ L	F04L1	1-03 *						33
INTERCHG READ L		1				6-6/8		33
IRD (SB) L	C03L1	1-01 *				N 7-3/8		34
IRD (SB) L	E01U2	1-02 *						34
IRD (SB) L		1				7-3/8		34
LOCAL H	D02H1	1-01 *				N 1		35
LOCAL H	D03H1	1-02 *						35
LOCAL H		1				1-0/8		35
LRC STRR (SB) L	A01K2	1-01 *				N 1		36
LRC STRB (SB) L	A02K2	1-02 *						36
LRC STRB (SB) L		1				1-0/8		36
MOL (SB) L	F01V2	1-01 *				N 1		37
MOL (SB) L	F02V2	1-02 *						37
MOL (SB) L		1				1-0/8		37
MOL H	C03P1	1-01 *				N 5-5/8		38
MOL H	E02M2	1-02 *						38
MOL H		1				5-5/8		38
MOL L	C02S1	1-01 *				N 2-5/8		39
MOL L	C01A1	1-02 *						39
MOL L		1				2-5/8		39
PACKET H	D03J2	1-01 *				N 3-1/8		40
PACKET H	E04K1	1-02 *						40
PACKET H		1				3-1/8		40

TU16.F RUN NAME	WRAPD .V35(74)=1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW RV RG Y X Z	REMARKS	24-Feb-77	13108 NC LENGTH FLAG	PAGE 4 EXCEPTIONS	RUN NUMBER
PCLR L	A03B2	1-01 *				N 14-7/8		41
PCLR L	F02E1	1-02 *				N 7-5/8		41
PCLR L	C01N2	1-03 *						41
PCLR L		1				22-4/8		41
PES L	C03B1	1-01 *				N 5-5/8		42
PES L	D02U1	1-02 *				N 6-7/8		42
PES L	F04U2	1-03 *						42
PES L		1				12-4/8		42
PESB (SB) L	C03R1	1-01 *				N 3-6/8		43
PESB (SB) L	D03V1	1-02 *				N 1-6/8		43
PESB (SB) L	E01D1	1-03 *						43
PESB (SB) L		1				5-4/8		43
RD (SB) 00 L	D01V2	1-01 *				N 1-4/8		44
RD (SB) 00 L	D03V2	1-02 *						44
RD (SB) 00 L		1				1-4/8		44
RD (SB) 01 L	D01U2	1-01 *				N 1-4/8		45
RD (SB) 01 L	D03U2	1-02 *						45
RD (SB) 01 L		1				1-4/8		45
RD (SB) 02 L	D01S2	1-01 *				N 1-4/8		46
RD (SB) 02 L	D03S2	1-02 *						46
RD (SB) 02 L		1				1-4/8		46
RD (SB) 03 L	D01R2	1-01 *				N 1-4/8		47
RD (SB) 03 L	D03R2	1-02 *						47
RD (SB) 03 L		1				1-4/8		47
RD (SB) 04 L	D01P2	1-01 *				N 1-4/8		48
RD (SB) 04 L	D03P2	1-02 *						48
RD (SB) 04 L		1				1-4/8		48
RD (SB) 05 L	C01H2	1-01 *				N 1-4/8		49
RD (SB) 05 L	C03H2	1-02 *						49
RD (SB) 05 L		1				1-4/8		49
RD (SB) 06 L	C01F2	1-01 *				N 1-4/8		50
RD (SB) 06 L	C03F2	1-02 *						50
RD (SB) 06 L		1				1-4/8		50
RD (SB) 07 L	C01E2	1-01 *				N 1-4/8		51
RD (SB) 07 L	C03E2	1-02 *						51
RD (SB) 07 L		1				1-4/8		51
RD (SB) P L	C01D2	1-01 *				N 1-2/8		52
RD (SB) P L	C03A1	1-02 *						52
RD (SB) P L		1				1-2/8		52
RD 00 L	A04F1	1-01 *				N 5-7/8		53
RD 00 L	C03D1	1-02 *						53
RD 00 L		1				5-7/8		53

TU16.F RUN NAME	WRAPD .V35(74)-1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW RV RG Y X Z OPT	REMARKS	24-Feb-77	13108 NC LENGTH FLAG	PAGE 5 EXCEPTIONS	RUN NUMBER
RD 01 L	D03U1	1-01 *				N 1-7/8		54
RD 01 L	E04E1	1-02 *						54
RD 01 L		1				1-7/8		54
RD 02 L	A04B1	1-01 *				N 6-5/8		55
RD 02 L	C03E1	1-02 *						55
RD 02 L		1				6-5/8		55
RD 03 L	D03B1	1-01 *				N 6-7/8		56
RD 03 L	F04K1	1-02 *						56
RD 03 L		1				6-7/8		56
RD 04 L	B04F1	1-01 *				N 3-3/8		57
RD 04 L	C03F1	1-02 *						57
RD 04 L		1				3-3/8		57
RD 05 L	C03M1	1-01 *				N 1		58
RD 05 L	C04P1	1-02 *						58
RD 05 L		1				1-0/8		58
RD 06 L	C03N1	1-01 *				N 1		59
RD 06 L	C04R1	1-02 *						59
RD 06 L		1				1-0/8		59
RD 07 H	C03S1	1-01 *				N 4-1/8		60
RD 07 H	D04V1	1-02 *						60
RD 07 H		1				4-1/8		60
RD P L	B04K1	1-01 *				N 3-3/8		61
RD P L	C03K1	1-02 *						61
RD P L		1				3-3/8		61
REC (SB) L	B01R2	1-01 *				N 5-7/8		62
REC (SB) L	D03K2	1-02 *						62
REC (SB) L		1				5-7/8		62
RECORD PULSE L	B03D1	1-01 *				N 6-5/8		63
RECORD PULSE L	D03L2	1-02 *				N 1		63
RECORD PULSE L	D02L2	1-03 *						63
RECORD PULSE L		1				7-5/8		63
REV (SB) L	B02F1	1-01 *				N 4-5/8		64
REV (SB) L	C01V2	1-02 *						64
REV (SB) L		1				4-5/8		64
RSDO (SB) L	C01K2	1-01 *				N 1-4/8		65
RSDO (SB) L	C03K2	1-02 *						65
RSDO (SB) L		1				1-4/8		65
RUNNING H	D02R2						1-PIN RUN	66
RWND (SB) L	B02D2	1-01 *				N 4-5/8		67
RWND (SB) L	C01P2	1-02 *						67
RWND (SB) L		1				4-5/8		67

TU16.F RUN NAME	WRAPD .V35(74)-1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW RV RG Y X Z OPT	REMARKS	24-Feb-77	13108 NC LENGTH FLAG	PAGE 6 EXCEPTIONS	RUN NUMBER
RWS (SB) L	B02M1	1-01 *				N 11-1/8		68
RWS (SB) L	F01M2	1-02 *						68
RWS (SB) L		1				11-1/8		68
SDWN (SB) L	A02M2	1-01 *				N 11-7/8		69
SDWN (SB) L	E01S2	1-02 *						69
SDWN (SB) L		1				11-7/8		69
SET SCC (SB) L	D01K2	1-01 *				N 7-1/8		70
SET SCC (SB) L	F02V1	1-02 *						70
SET SCC (SB) L		1				7-1/8		70
SET TEST WRE L	B03M2	1-01 *				N 6-3/8		71
SET TEST WRE L	D02N1	1-02 *						71
SET TEST WRE L		1				6-3/8		71
SET VPE (SB) L	D01H2	1-01 *				N 1-4/8		72
SET VPE (SB) L	D03H2	1-02 *						72
SET VPE (SB) L		1				1-4/8		72
SLA (SB) L	E02V1	1-01 *				N 1-7/8		73
SLA (SB) L	F01E2	1-02 *						73
SLA (SB) L		1				1-7/8		73
SLAVE BUS ENBL L	B01H1	1-01 *				N 1-2/8		74
SLAVE BUS ENBL L	B02D1	1-02 *						74
SLAVE BUS ENBL L		1				1-2/8		74
SLAVE PRESENT H	D02B1	1-01 *				N 4-5/8		75
SLAVE PRESENT H	E03M2	1-02 *						75
SLAVE PRESENT H		1				4-5/8		75
SN (SB) 00 L	E03D2	1-01 *				N 6-1/8		76
SN (SB) 00 L	F01V1	1-02 *						76
SN (SB) 00 L		1				6-1/8		76
SN (SB) 01 L	E03S2	1-01 *				N 4-1/8		77
SN (SB) 01 L	F01S2	1-02 *						77
SN (SB) 01 L		1				4-1/8		77
SN (SB) 02 L	F01U2	1-01 *				N 1-4/8		78
SN (SB) 02 L	F03U2	1-02 *						78
SN (SB) 02 L		1				1-4/8		78
SN (SB) 03 L	E01K2	1-01 *				N 1-4/8		79
SN (SB) 03 L	E03K2	1-02 *						79
SN (SB) 03 L		1				1-4/8		79
SN (SB) 04 L	E01E2	1-01 *				N 1-4/8		80
SN (SB) 04 L	E03E2	1-02 *						80
SN (SB) 04 L		1				1-4/8		80
SN (SB) 05 L	E01F1	1-01 *				N 2-1/8		81
SN (SB) 05 L	E03P2	1-02 *						81
SN (SB) 05 L		1				2-1/8		81

TU16,F RUN NAME	WRAPD .V35(74)-1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW	RV	RG	Y	X	Z	REMARKS	24-Feb-77	13100 NC LENGTH FLAG	PAGE 7 EXCEPTIONS	RUN NUMBER
SN (SB) 06 L	F01U1	1-01 *						1			N	1-7/8	82
SN (SB) 06 L	F03S2	1-02 *											82
SN (SB) 06 L		1									1-7/8		82
SN (SB) 07 L	E01F1	1-01 *						1			N	2-4/8	83
SN (SB) 07 L	E03V2	1-02 *											83
SN (SB) 07 L		1									2-4/8		83
SN (SB) 08 L	E01F2	1-01 *						1			N	1-4/8	84
SN (SB) 08 L	E03F2	1-02 *											84
SN (SB) 08 L		1									1-4/8		84
SN (SB) 09 L	F01S1	1-01 *						1			N	2-1/8	85
SN (SB) 09 L	F03E1	1-02 *											85
SN (SB) 09 L		1									2-1/8		85
SN (SB) 10 L	F01R2	1-01 *						1			N	1-4/8	86
SN (SB) 10 L	F03P2	1-02 *											86
SN (SB) 10 L		1									1-4/8		86
SN (SB) 11 L	E01H1	1-01 *						1			N	4-1/8	87
SN (SB) 11 L	F03D2	1-02 *											87
SN (SB) 11 L		1									4-1/8		87
SN (SB) 12 L	E01H2	1-01 *						1			N	1-4/8	88
SN (SB) 12 L	E03H2	1-02 *											88
SN (SB) 12 L		1									1-4/8		88
SN (SB) 13 L	E03A1	1-01 *						1			N	5-5/8	89
SN (SB) 13 L	F01R1	1-02 *											89
SN (SB) 13 L		1									5-5/8		89
SN (SB) 14 L	F01P2	1-01 *						1			N	1-4/8	90
SN (SB) 14 L	F03P2	1-02 *											90
SN (SB) 14 L		1									1-4/8		90
SN (SB) 15 L	E01K1	1-01 *						1			N	1-7/8	91
SN (SB) 15 L	E03B1	1-02 *											91
SN (SB) 15 L		1									1-7/8		91
SPR (SB) L	D02A1	1-01 *						1			N	6-5/8	92
SPR (SB) L	F01E1	1-02 *											92
SPR (SB) L		1									6-5/8		92
SS (SB) 00 L	B01H2	1-01 *						1			N	4-5/8	93
SS (SB) 00 L	C02V1	1-02 *											93
SS (SB) 00 L		1									4-5/8		93
SS (SB) 01 L	B01P2	1-01 *						1			N	4-1/8	94
SS (SB) 01 L	C02V2	1-02 *											94
SS (SB) 01 L		1									4-1/8		94
SS (SB) 02 L	B01M2	1-01 *						1			N	5-1/8	95
SS (SB) 02 L	D02D1	1-02 *											95
SS (SB) 02 L		1									5-1/8		95

TU16,F RUN NAME	WRAPD .V35(74)-1 A/P PIN ORDER NAME PIN	28-Jan-77 BAY - Q ORDER	DRAW	RV	RG	Y	X	Z	REMARKS	24-Feb-77	13100 NC LENGTH FLAG	PAGE 8 EXCEPTIONS	RUN NUMBER
STOP (SB) L	A01V2	1-01 *						1			N	5-5/8	96
STOP (SB) L	C02S2	1-02 *											96
STOP (SB) L		1									5-5/8		96
TEST DATA -A	A03K1	1-01 *						2			N	1-3/8	97
TEST DATA -A	A02C1	1-02 *						1			N	0-4/8	97
TEST DATA -A	A02E1	1-03 *						2			N	0-1/8	97
TEST DATA -A	A02F1	1-04 *						1			N	0-4/8	97
TEST DATA -A	A02J1	1-05 *						2			N	3-1/8	97
TEST DATA -A	B02H1	1-06 *											97
TEST DATA -A		1									5-5/8		97
TEST DATA -B	A03J1	1-01 *						2			N	3-5/8	98
TEST DATA -B	B02J1	1-02 *						1			N	1-2/8	98
TEST DATA -B	B02P1	1-03 *						2			N	0-1/8	98
TEST DATA -B	B02P1	1-04 *						1			N	2-7/8	98
TEST DATA -B	C02M2	1-05 *											98
TEST DATA -B		1									7-7/8		98
TEST DATA A	A03L2							1				1-PIN RUN	99
TEST DATA B	A03H1											1-PIN RUN	100
TEST DEN H	A03T2	1-01 *						1			N	4-3/8	101
TEST DEN H	C03C1	1-02 *											101
TEST DEN H		1									4-3/8		101
TEST PE H	B03L2	1-01 *						1			N	2	102
TEST PE H	C03B2	1-02 *											102
TEST PE H		1									2-0/8		102
TESTER ENBL L	B03N1	1-01 *						1			N	4-7/8	103
TESTER ENBL L	D02D2	1-02 *											103
TESTER ENBL L		1									4-7/8		103
TESTER GND	B03M1	1-01 *						1			N	0-4/8	104
TESTER GND	B03P1	1-02 *						2			N	0-5/8	104
TESTER GND	B03T1	1-03 *						1			N	0-1/8	104
TESTER GND	B03U1	1-04 *						2			N	0-1/8	104
TESTER GND	B03V1	1-05 *											104
TESTER GND		1									1-3/8		104
TUR (SB) L	C01S2	1-01 *						1			N	4-1/8	105
TUR (SB) L	B02K2	1-02 *											105
TUR (SB) L		1									4-1/8		105
WD (SB) 00 L	B01V2	1-01 *						1			N	1	106
WD (SB) 00 L	B02V2	1-02 *											106
WD (SB) 00 L		1									1-0/8		106
WD (SB) 01 L	B01U2	1-01 *						1			N	1	107
WD (SB) 01 L	B02U2	1-02 *											107
WD (SB) 01 L		1									1-0/8		107

TU16.F  
RUN NAME

WRAPD .V35(74)-1  
A/P PIN ORDER  
NAME PIN

28-Jan-77  
BAY - Q  
ORDER

DRAW RV RG Y X Z  
OPT

REMARKS

24-Feb-77

13:08 PAGE 9  
NC LENGTH EXCEPTIONS  
FLAG

RUN  
NUMBER

WD (SB) 02 L	B01S2	1-01 *					1		N 1	108
WD (SB) 02 L	B02S2	1-02 *								108
WD (SB) 02 L		1							1-0/8	108
WD (SB) 03 L	A01P2	1-01 *					1		N 3-7/8	109
WD (SB) 03 L	B02R2	1-02 *								109
WD (SB) 03 L		1							3-7/8	109
WD (SB) 04 L	B01K2	1-01 *					1		N 1-1/8	110
WD (SB) 04 L	B02P2	1-02 *								110
WD (SB) 04 L		1							1-1/8	110
WD (SB) 05 L	A01M2	1-01 *					1		N 1-1/8	111
WD (SB) 05 L	A02H2	1-02 *								111
WD (SB) 05 L		1							1-1/8	111
WD (SB) 06 L	A01F2	1-01 *					1		N 1	112
WD (SB) 06 L	A02F2	1-02 *								112
WD (SB) 06 L		1							1-0/8	112
WD (SB) 07 L	A01E2	1-01 *					1		N 1	113
WD (SB) 07 L	A02E2	1-02 *								113
WD (SB) 07 L		1							1-0/8	113
WD (SB) P L	A01D2	1-01 *					1		N 1	114
WD (SB) P L	A02D2	1-02 *								114
WD (SB) P L		1							1-0/8	114
WRITE (SB) L	A02U1	1-01 *					1		N 6-7/8	115
WRITE (SB) L	D01D2	1-02 *								115
WRITE (SB) L		1							6-7/8	115
WRITE ENABLE H	D02S1	1-01 *					2		N 1	116
WRITE ENABLE H	D03S1	1-02 *					1		N 6-1/8	116
WRITE ENABLE H	F04S1	1-03 *								116
WRITE ENABLE H		1							7-1/8	116
WPL (SB) L	B02M2	1-01 *					1		N 11-1/8	117
WRL (SB) L	F01K2	1-02 *								117
WRL (SB) L		1							11-1/8	117
WRT CLK (SB) L	D03M2	1-01 *					1		N 1-6/8	118
WRT CLK (SB) L	D01E2	1-02 *								118
WRT CLK (SB) L		1							1-6/8	118
WRT CLK TEST ENB L	B03H1	1-01 *					1		N 5	119
WRT CLK TEST ENB L	D03A1	1-02 *								119
WRT CLK TEST ENB L		1							5-0/8	119

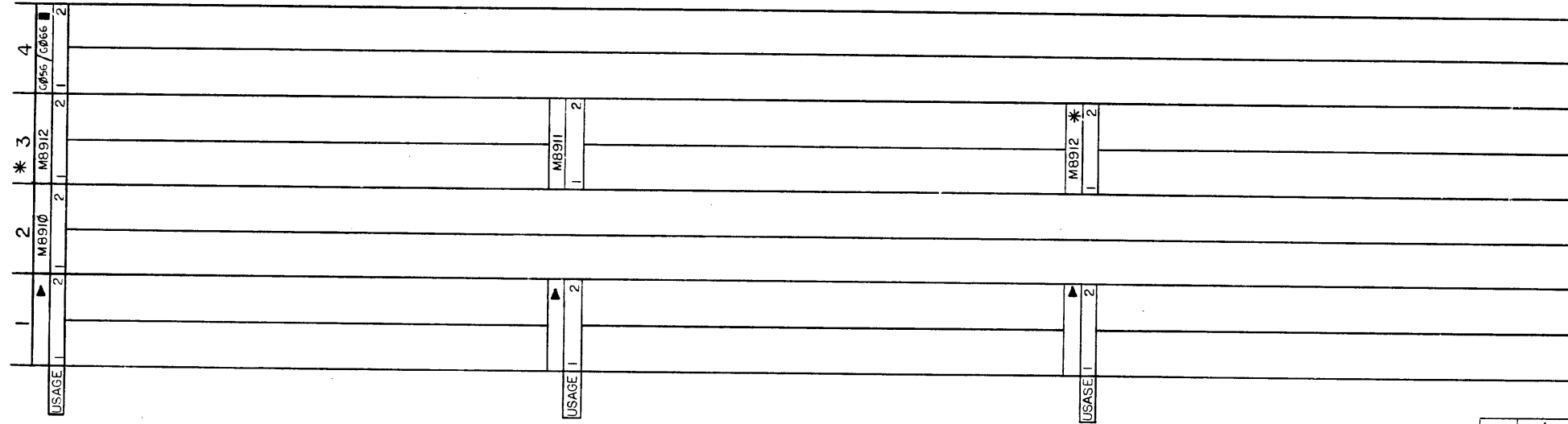
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REV. C  
D/MU TU16-0-MU 2

**NOTES:**

- USE CABLE SLOTS AS FOLLOWS  

	END-OF-BUS	MIDDLE-OF-BUS
A,B	M9001YB	M3001
C,D	M8913YA	M8913
E,F	M9001YC	M9001-YA
- MB912 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 TU16 CAN NOT OPERATE ON-LINE WITH MB912 IN SLOT 3 A/B.
- ELECTROSTATIC SHIELD IS POSITIONED BETWEEN THE G056 MODULE AND THE M8911/M8912 MODULES.
- G066 REPLACES G056. G066 BOARD AND G066 READ CABLE MUST BE ORDERED TOGETHER. CABLE ISN'T ATTACHED TO BOARD.



▲ SEE NOTE #1  
 \* SEE NOTE #2  
 ■ SEE NOTE #4

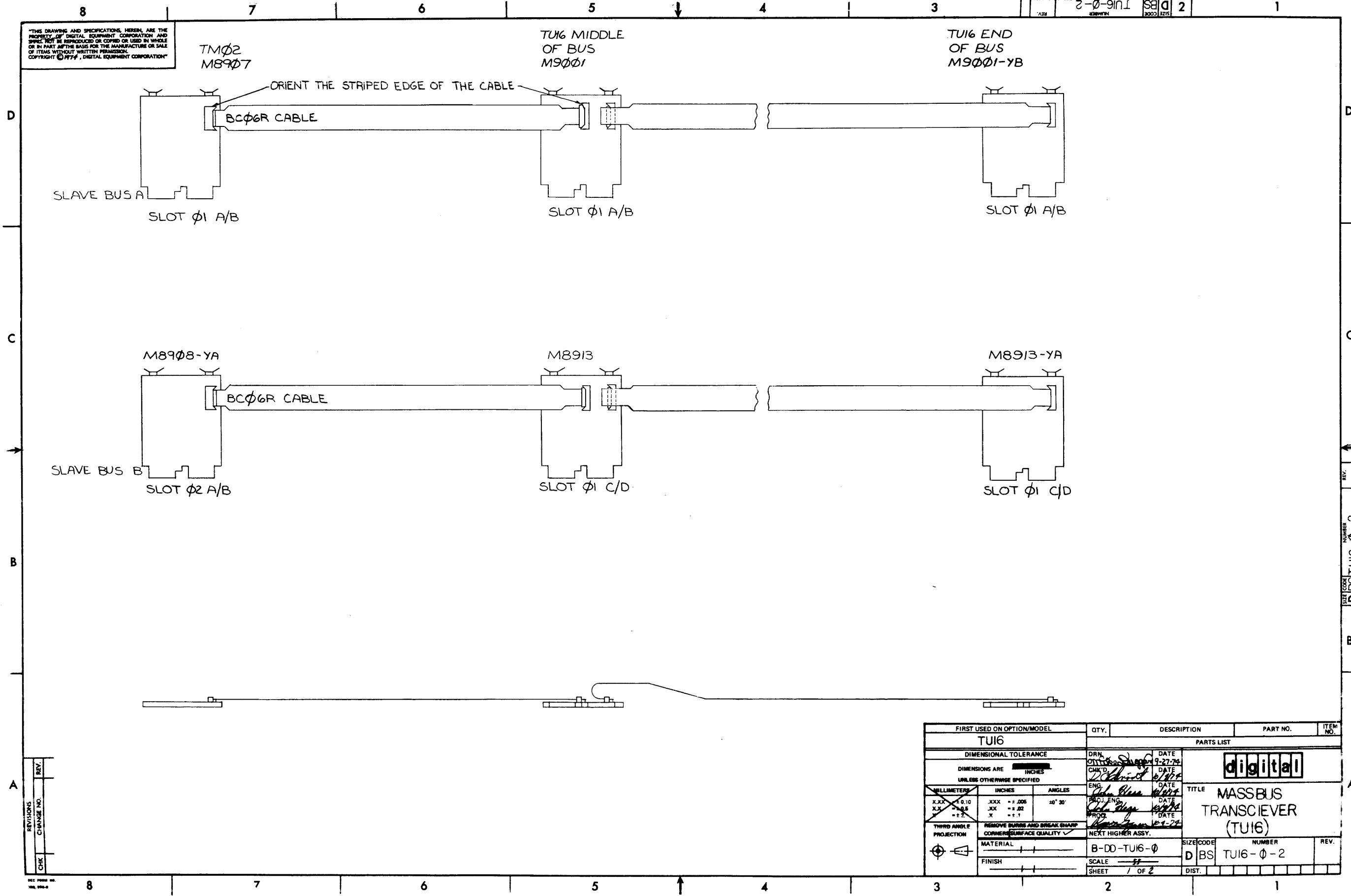
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	G066 READ CABLE	7012844	9
1	ELECTROSTATIC SHIELD	1700021	8
A/R	GEN PURPOSE CARD (E/F)	M9001-YA	7
1	CLK & TEST LOGIC	M8911	6
A/R	DATA DRIVER	M8913	5
1	READ AMP (RA1)	G056/G066	4
2	SLAVE TEST FUNCT GEN	M8912	3
1	LOGIC & WRITE BOARD	M8910	2
A/R	GEN PURPOSE CARD (A/B)	M9001	1

REV.	CHANGE NO.	DATE	BY
A	0000		
B	0007		
C	00031		
D	00077		

FIRST USED ON OPTION/MODEL		TU16	
DIMENSIONAL TOLERANCE		PARTS LIST	
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED			
MILLIMETERS	INCHES	ANGLES	TITLE
XXX ±0.10	JXX ±.006	30° 30'	MODULE UTILIZATION
XX ±0.5	JX ±.02		
X ±2	X ±.1		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	DATE	DATE
		9-5-74	9-5-74
		DATE	DATE
		9-5-74	9-5-74
		DATE	DATE
		9-5-74	9-5-74
MATERIAL	FINISH	SIZE CODE	NUMBER
		D-UA-TU16-0-0	D MU TU16-0-MU
		SCALE	REV. C
		SHEET OF	

REV. C  
 NUMBER  
 D/MU TU16-0-MU

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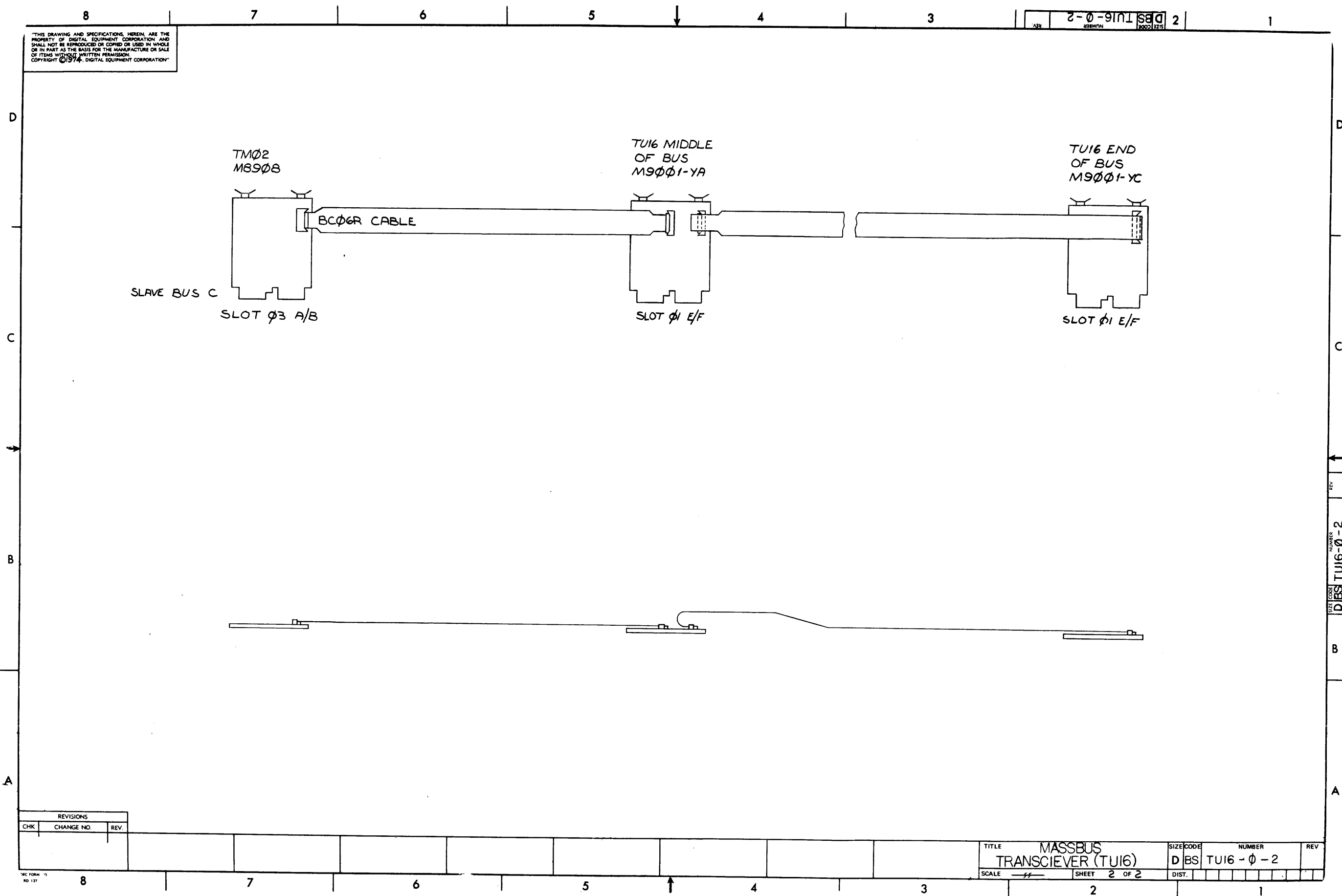
REV.	CHANGE NO.	DESCRIPTION

REV. 2  
NUMBER D BS TUI6-φ-2

FIRST USED ON OPTION/MODEL <b>TUI6</b>		QTY.	DESCRIPTION	PART NO.	ITEM NO.																						
DIMENSIONAL TOLERANCE DIMENSIONS ARE <b>INCHES</b> UNLESS OTHERWISE SPECIFIED		PARTS LIST																									
<table border="1"> <tr> <th>MILLIMETERS</th> <th>INCHES</th> <th>ANGLES</th> </tr> <tr> <td>.XXX ±0.10</td> <td>.XXX ±.005</td> <td>±0° 30'</td> </tr> <tr> <td>.XX ±0.05</td> <td>.XX ±.002</td> <td></td> </tr> <tr> <td>.X ±.02</td> <td>X ±.001</td> <td></td> </tr> </table>		MILLIMETERS	INCHES	ANGLES	.XXX ±0.10	.XXX ±.005	±0° 30'	.XX ±0.05	.XX ±.002		.X ±.02	X ±.001		<table border="1"> <tr> <td>DRN</td> <td>DATE</td> </tr> <tr> <td>CHK'D</td> <td>DATE</td> </tr> <tr> <td>ENG.</td> <td>DATE</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE</td> </tr> <tr> <td>PROG.</td> <td>DATE</td> </tr> </table>		DRN	DATE	CHK'D	DATE	ENG.	DATE	PROJ. ENG.	DATE	PROG.	DATE		
MILLIMETERS	INCHES	ANGLES																									
.XXX ±0.10	.XXX ±.005	±0° 30'																									
.XX ±0.05	.XX ±.002																										
.X ±.02	X ±.001																										
DRN	DATE																										
CHK'D	DATE																										
ENG.	DATE																										
PROJ. ENG.	DATE																										
PROG.	DATE																										
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		TITLE <b>MASSBUS TRANSCIEVER (TUI6)</b>																							
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE NUMBER REV.																							
FINISH		B-DD-TUI6-φ		D BS TUI6-φ-2																							
SCALE		SHEET 1 OF 2		DIST.																							

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D BS TUI6-0-2 2



REVISIONS		
CHK	CHANGE NO.	REV.

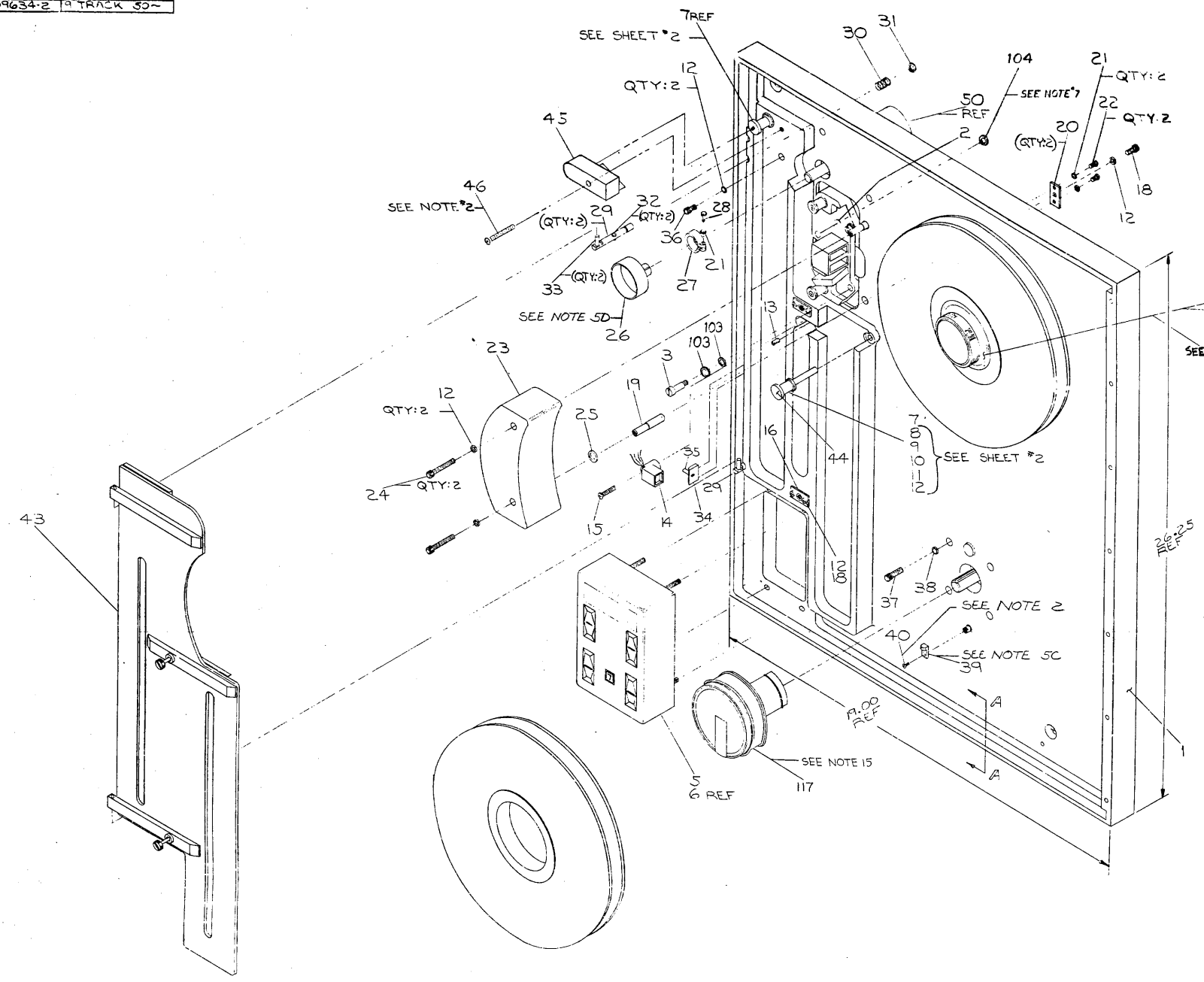
MC FORM 10  
RD 137

TITLE	MASSEBUS TRANSCIEVER (TUI6)	SIZE CODE	D BS	NUMBER	TUI6-0-2	REV	
SCALE	1:1	SHEET	2 OF 2	DIST.			

D BS TUI6-0-2

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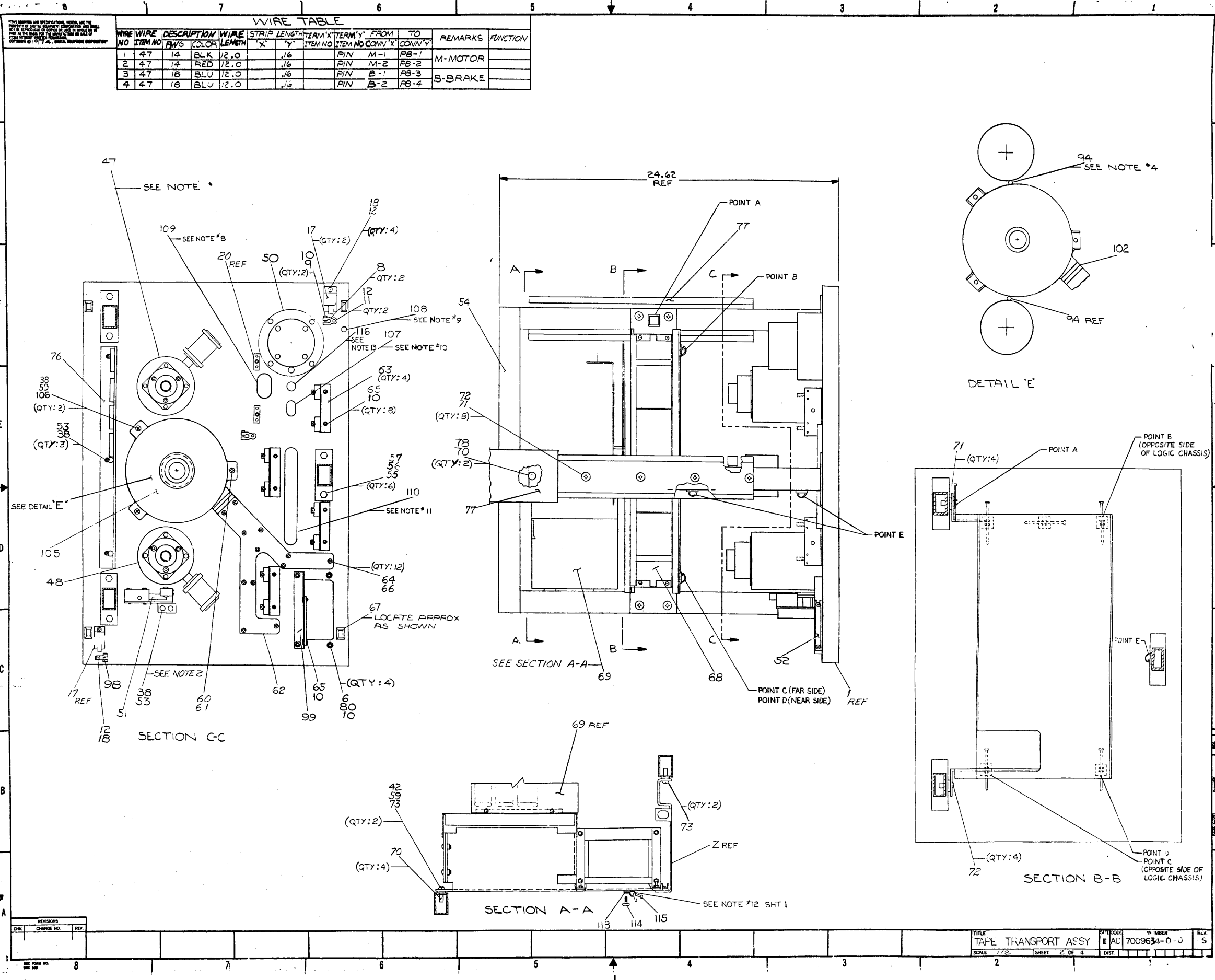
LEGEND	
NUMBER	VARIATION
7009634-1	9 TRACK 60~
7009634-2	9 TRACK 50~



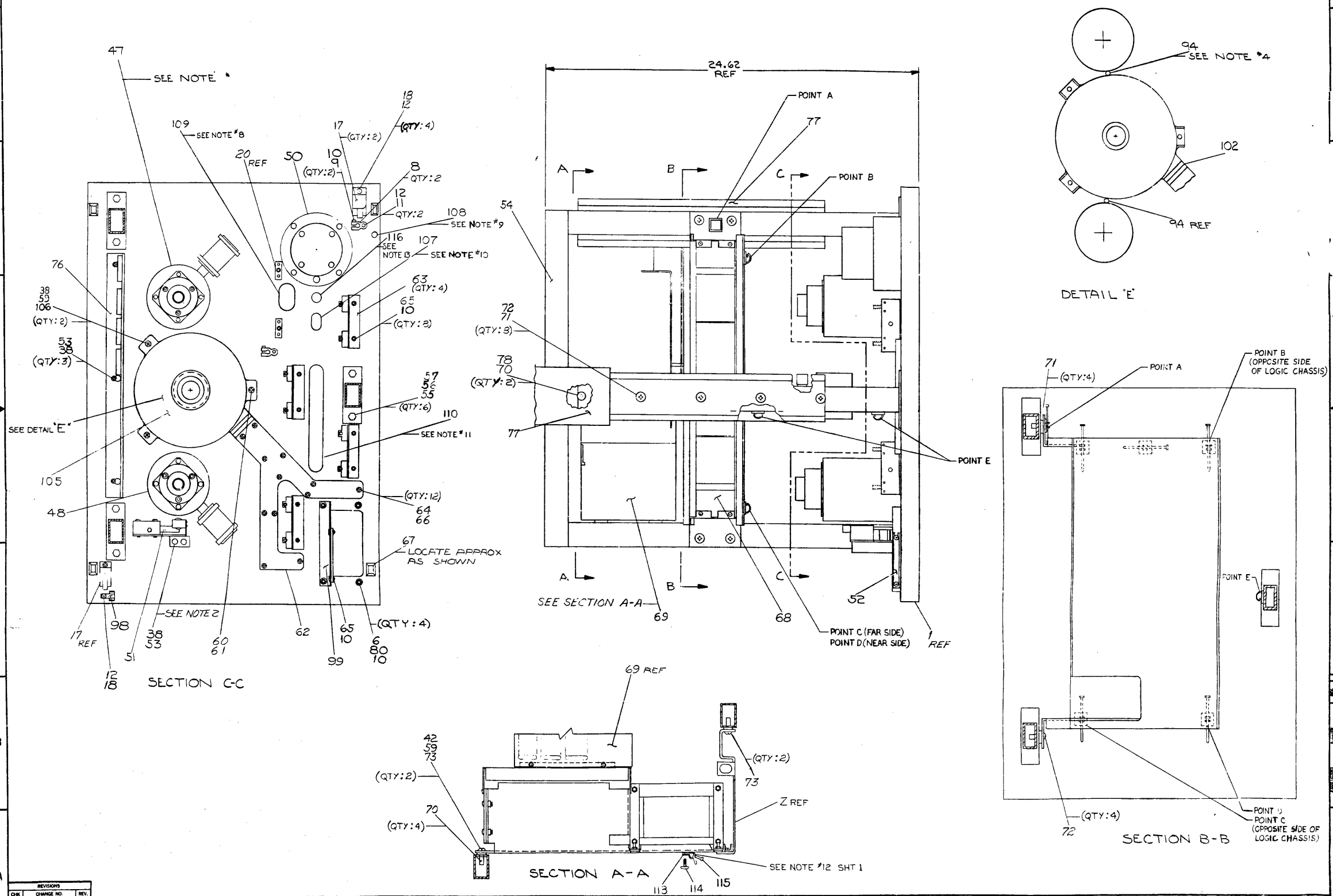
- NOTES:**
- FOR HARNESS CONNECTIONS & GENERAL WIRING REFER TO SHEET #3.
  - THESE ITEMS TO BE COATED WITH LOCKTITE AT ASSY.
  - THESE ITEMS TO HAVE THREADS COATED WITH TEFLON PLUMBERS TAPE.
  - THESE ITEMS TO BE CEMENTED IN PLACE AT ASSY USING HYBROND ADHESIVE.
  - GAGES REQUIRED:
    - A. ROLLER GUIDE GAGE: \*9605460
    - B. HUB GAGE: \*9605461
    - C. READ WRITE REEL GAGE \*9605493
    - D. CASSTAN GAGE \*9605606
  - REELS (ITEMS 1 & 2) ARE SUPPLIED AT UNIT ASSY.
  - PRECISION SPACERS (3 REQ) THICKNESS PER SPEC. A-SP-TUIG-0-0
  - INSTALL FOAM FILTER, MEDIUM.
  - INSTALL PLUG FILTER.
  - INSTALL FOAM FILTER, SMALL.
  - INSTALL FOAM FILTER, LARGE.
  - USE UNTAPPED HOLE APPROXIMATELY 3/4 IN. FROM SURFACE MARKED Z.
  - INSTALL HEAD PLUG FILTER.
  - PUT 6 EXT. STAR WASHER ON BOTH SIDES OF GROUND STRAP.
  - QUICK LATCH HUB WILL NOT FIT ON ALL CASTINGS DUE TO THE SMALLER HOLE DIAMETER. THIS HOLE CAN BE FILLED WITH A COARSE HALF ROUND EASTARD FILE TO ACCOMMODATE THE QUICK LATCH HUB ASSY. FOR FIELD RETROFIT.

REV	DESCRIPTION	DATE
1	INITIAL DESIGN	12-18-73
2	REVISED TO ADD...	1-10-74
3	REVISED TO ADD...	2-10-74
4	REVISED TO ADD...	3-10-74
5	REVISED TO ADD...	4-10-74
6	REVISED TO ADD...	5-10-74
7	REVISED TO ADD...	6-10-74
8	REVISED TO ADD...	7-10-74
9	REVISED TO ADD...	8-10-74
10	REVISED TO ADD...	9-10-74
11	REVISED TO ADD...	10-10-74
12	REVISED TO ADD...	11-10-74
13	REVISED TO ADD...	12-10-74
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15	REVISED TO ADD...	2-10-75
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93	REVISED TO ADD...	8-10-81
94	REVISED TO ADD...	9-10-81
95	REVISED TO ADD...	10-10-81
96	REVISED TO ADD...	11-10-81
97	REVISED TO ADD...	12-10-81
98	REVISED TO ADD...	1-10-82
99	REVISED TO ADD...	2-10-82
100	REVISED TO ADD...	3-10-82

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	REV.
TUIG				
DIMENSIONAL TOLERANCE		DATE		
UNLESS OTHERWISE SPECIFIED		DATE		
INCHES	ANGLES	DATE		
±.0005	±.0005	DATE		
±.0010	±.0010	DATE		
±.0015	±.0015	DATE		
±.0020	±.0020	DATE		
±.0025	±.0025	DATE		
±.0030	±.0030	DATE		
±.0035	±.0035	DATE		
±.0040	±.0040	DATE		
±.0045	±.0045	DATE		
±.0050	±.0050	DATE		
±.0055	±.0055	DATE		
±.0060	±.0060	DATE		
±.0065	±.0065	DATE		
±.0070	±.0070	DATE		
±.0075	±.0075	DATE		
±.0080	±.0080	DATE		
±.0085	±.0085	DATE		
±.0090	±.0090	DATE		
±.0095	±.0095	DATE		
±.0100	±.0100	DATE		
±.0105	±.0105	DATE		
±.0110	±.0110	DATE		
±.0115	±.0115	DATE		
±.0120	±.0120	DATE		
±.0125	±.0125	DATE		
±.0130	±.0130	DATE		
±.0135	±.0135	DATE		
±.0140	±.0140	DATE		
±.0145	±.0145	DATE		
±.0150	±.0150	DATE		
±.0155	±.0155	DATE		
±.0160	±.0160	DATE		
±.0165	±.0165	DATE		
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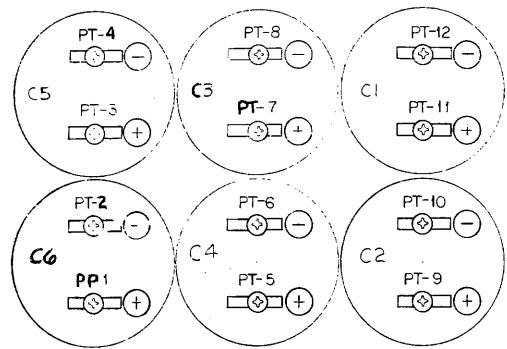
WIRE TABLE											
WIRE NO	WIRE STRIP NO	DESCRIPTION	WIRE COLOR	WIRE LENGTH	STRIP LENGTH	TERMINAL 'X' ITEM NO	TERMINAL 'Y' ITEM NO	FROM CONV 'X'	TO CONV 'Y'	REMARKS	FUNCTION
1	47	14	BLK	12.0	.16	PIN	M-1	FB-1		M-MOTOR	
2	47	14	RED	12.0	.16	PIN	M-2	FB-2			
3	47	18	BLU	12.0	.16	PIN	B-1	FB-3		B-BRAKE	
4	47	18	BLU	12.0	.16	PIN	B-2	FB-4			



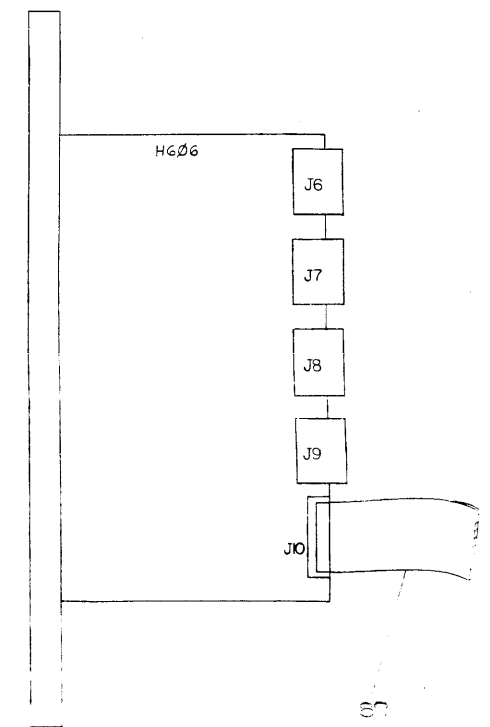
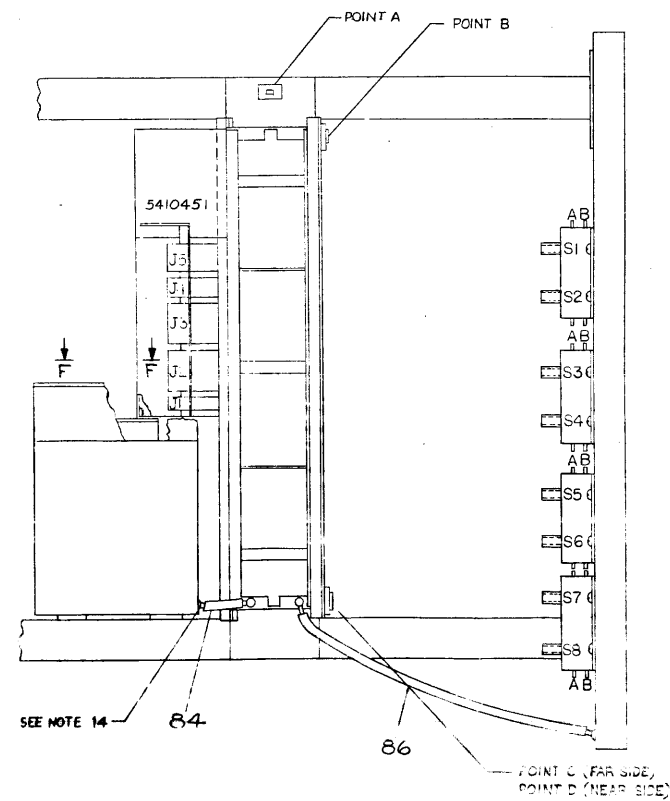
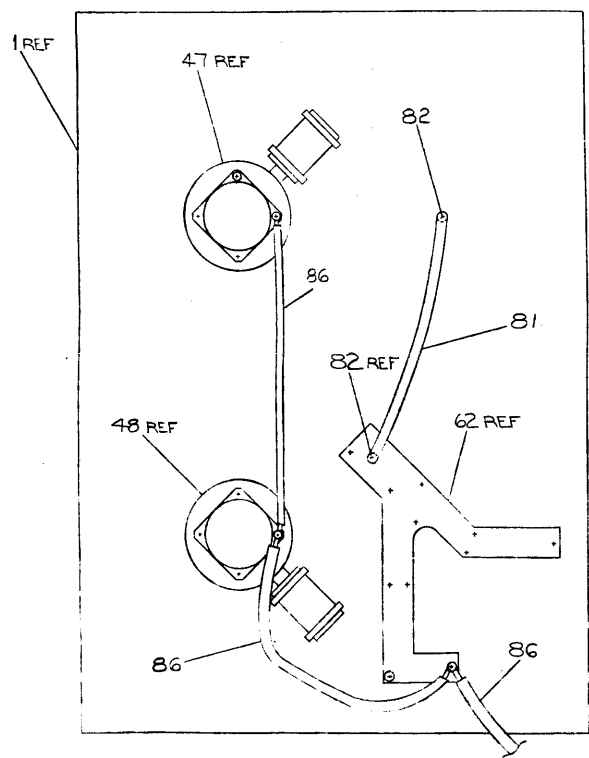
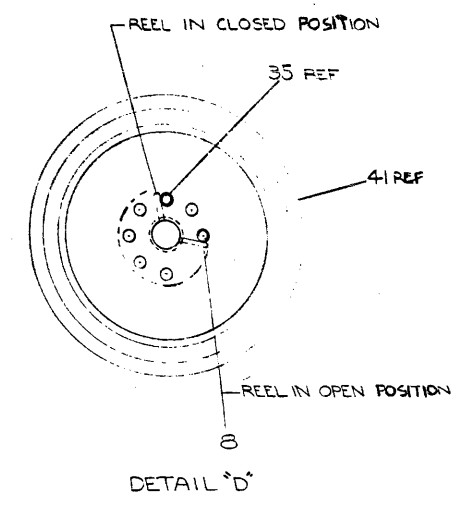
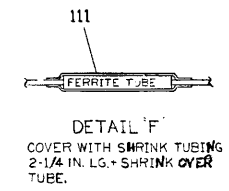
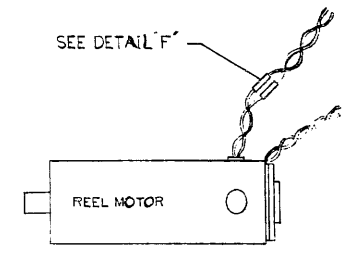
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TAPE TRANSPORT ASSY	SIZE	0000	IN. NUMBER	7009634-0-0	REV.	S
SCALE	1/2	SHEET	2 OF 4	DIST.			

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TOP VIEW F-F  
SHOWN WITH CAPACITOR  
GUARD REMOVED

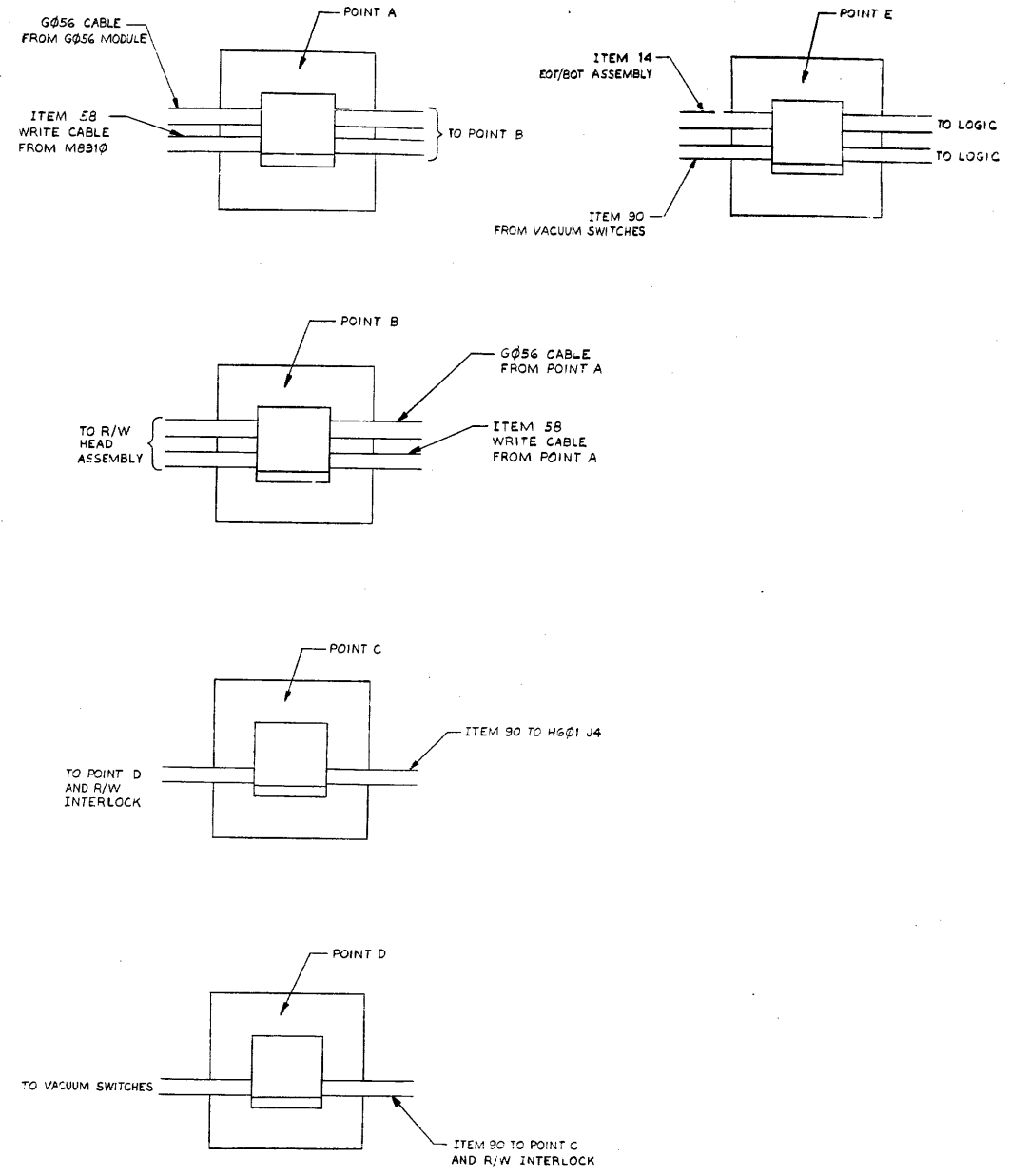


REV.	CHG. NO.	REV.

TITLE TAPE TRANSPORT ASSY  
SCALE 2:1 SHEET 3 OF 4  
SIZE CODE E AD NUMBER 7009634-00 REV S

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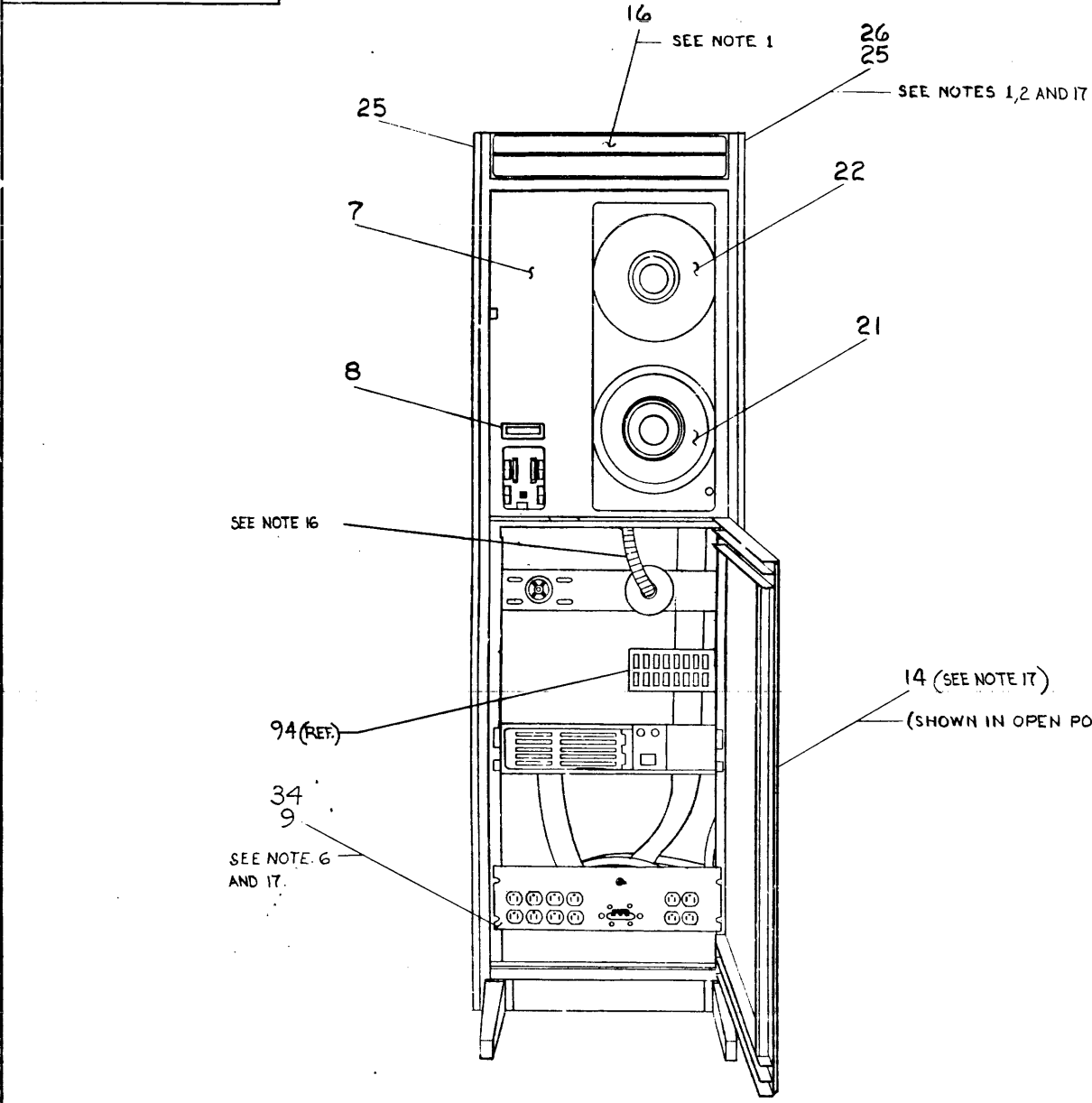
ITEM NO.	DESCRIPTION	FROM		TO		TIE DOWN POINT (SEE NOTE B)	REMARKS
		A/W/G	COLOR	CONNECTION	WITH		
22	WHT/YEL VAC SW HARN - TB-1					VAC SW S1-A	B
18	BLK			-TB-2		S1-B	
22	WHT/GRY			-TB-3		S2-A	D
18	BLK			-TB-4		S2-B	
22	WHT/YEL			-PT-18		LOGIC C02U1	B
22	GRN			-PT-19		LOGIC C02U2	B
22	WHT/YEL			-TB-5		VAC SW S3-A	B
18	BLK			-TB-6		S3-B	
22	WHT/BLU			-TB-7		S4-A	D
18	BLK			-TB-8		S4-B	
22	WHT/BRN			-TB-9		S5-A	D
18	BLK			-TB-10		S5-B	
22	GRN			-TB-11		S6-A	
22	GRN			-TB-12		S6-B	
22	WHT/ORN			-TB-13		S7-A	D
18	BLK			-TB-14		S7-B	
22	GRN			-TB-15		S8-A	
18	BLK			-TB-16		S8-B	
18	BLK			-E-17		ITEM 90 DEC PLATE - GND	105
				-P13		R/W INTERLOCK - J13	C
				VAC SW HARN - P4		HG06 J3	C
14	FLU CAP. HARN - TB-1					CAPACITOR BANK PT-11	
	BLK			TB-2		PT-12	
	WHT			TB-3		PT-6	
	BLK			TB-4		PT-7	
	BLK			TB-5		PT-4	
	BRN			TB-6		PT-5	
	BLK			TB-7		PT-2	
	RED			TB-8		PT-1	
	BLK			TB-9		PT-3	
	VIO			TB-10		PT-5	
	BLK			TB-11		PT-10	
14	YEL			TB-12		PT-9	
				CAP HARN - P3		54-122-2 J3	
5				CONT BOX CABLE		MB310 J1	
68				LOGIC ASSY - P5		54-122-42 J5	
69				TRANSFORMER - P2		54-122-12 J2	
89				BC05 L		HG06 J10	
				BC05 L		MB310 J2	
92				SERVO BD HARN - P4		54-122-42 J4	
				SERVO BD HARN - P7		HG06 J7	
14	RED			EOT/BOT ASSEMBLY		LOGIC	E
	GRN			EOT/BOT ASSEMBLY		LOGIC	E
	YEL			EOT/BOT ASSEMBLY		LOGIC	E
	BRN			EOT/BOT ASSEMBLY		LOGIC	E
				G056 CABLE - G056		R/W HEAD ASSEMBLY	A,B
				WRITE CABLE		MB310 J3	A
				WRITE CABLE		R/W HEAD ASSEMBLY	B



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	TAPE TRANSPORT ASSY	SIZE CODE	E AD	NUMBER	7009634-00	REV.	S
SCALE	1/2" = 1"	SHEET	4	OF	5	DIS.	

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FRONT VIEW

**CAUTION**  
THIS SHEET IS FOR THE TU16 IN THE H950 SERIES CAB

NUMBER	VARIATION	
	DESCRIPTION	VOLTAGE
TU16-EE	MAG TAPE SLAVE UNIT 45IPS 9 TRACK PE/NRZI	115V, 60HZ
TU16-EF	MAG TAPE SLAVE UNIT 45IPS 9 TRACK PE/NRZI	230V, 60HZ
TU16-EH	MAG TAPE SLAVE UNIT 45IPS 9 TRACK PE/NRZI	115V, 50HZ
TU16-EJ	MAG TAPE SLAVE UNIT 45IPS 9 TRACK PE/NRZI	230V, 50HZ
TU16-EA	TU16-EE & TM02-FA	115V, 60HZ
TU16-EB	TU16-EF & TM02-FB	230V, 60HZ
TU16-EC	TU16-EH & TM02-FA	115V, 50HZ
TU16-ED	TU16-EJ & TM02-FB	230V, 50HZ
TU16-EK	TU16-EE & TM02-FC	115V, 60HZ
TU16-EL	TU16-EF & TM02-FD	230V, 60HZ
TU16-EM	TU16-EH & TM02-FC	115V, 50HZ
TU16-EN	TU16-EJ & TM02-FD	230V, 50HZ
TU16-AA	TU16 IN H9500 SERIES CAB (CORR. CAB)	
TU16-AJ	THROUGH-AJ SEE SHEETS 536	

- NOTES:**
- THE CORRECT DEC PART NUMBER VARIATION FOR ITEMS \*16 & 25 SHOULD BE DETERMINED BY THE SYSTEM THAT THE TU16 IS TO BE INCLUDED WITH.
  - THE QUANTITY REQUIRED FOR THE H952-A END PANEL ASSY (ITEM \*25) AND THE H952-GA FILLER STRIP ASSY (ITEM \*26-NOT SHOWN) IS DETERMINED BY WHETHER THE TU16 IS INCLUDED IN A SYSTEM OR WHETHER IT STANDS ALONE.
  - INFORMATION FOR CONNECTING THE CABLES (ITEM \*17) TO TAPE TRANSPORT (ITEM \*6, \*35) REFER TO DWG NO D-MU-TU16-0-MU.
  - PHANTOM LINES REPRESENT TRANSPORT ASSY IN CLOSED POSITION TO SHOW LOCATION OF SHIPPING BRACKETS (ITEM \*38).
  - TO CONVERT FROM 120 TO 240-VAC OPERATION, CUT MALE END FROM TU16'S POWER CORD, AND CONNECT END OF CORD TO 240 VAC MALE CONNECTOR, ITEM \*43 (NOT SHOWN).
  - POWER CORD ROUTING: 861-CABLE CLAMP (ITEM \*42-NOT SHOWN) TINNERMAN NUT, SCREW, AND WASHER MOUNT ON RIGHT SIDE REAR HOLE \*10 ROUTE CORD THROUGH CLAMP AND OUT BOTTOM OF CABINET. TU16-ROUTE CORD THRU CABLE CLAMP (ITEM 54 NOT SHOWN) LOCATED IN HOLE \*67 ON LEFT FRONT SIDE OF CABINET OUTSIDE OF CHASSIS SLIDE AND INTO PLUG CN 861. USE TWO FLAT WASHERS (1(CNE) PER CLAMP).
  - ITEMS 57 AND 56 ARE USED AS A POSITIVE STOP TO PREVENT PULLING. THE TRANSPORT CUT OF THE CABINET THEY MUST BE INSTALLED WHEN TRANSPORT ASSY IS MOUNTED TO CAB.
  - USE BLACK TUBING TO COVER 36 IN. GROUND STRAP. USE 2 TIE WRAPS (ITEM \*52) TO SECURE TUBING TO STRAP.
  - USE ONE TIE WRAP TO BIND EXTRA ITEM \*51 TO ITEM \*45.

- INSERT 5 ITEM \*49'S (NOT SHOWN) IN LEFT SIDE, FRONT HOLES NUMBERS 68, 76, 90, 100, AND 106. USE 5 TIE WRAPS (ITEM \*52, NOT SHOWN) TO SECURE HARNESS TO CAB. ROUTE CAB FAN HARNESS THRU 861 POWER CONTROL, FAN BOX AND INTO SWITCHED PLUG ON 861 BOX.
- FASTEN TWO ITEM \*50'S TO UNDER SIDE OF CAB ROOF AND CAPTIVATE POWER WIRES FROM FAN.
- GROUND STRAP JUMPER FROM TM02 LOGIC BOX TO BE CONNECTED TO POWER SUPPLY TRANS-CAP ASSY.
- FASTEN (ITEM \*50) WHERE SHOWN AND SECURE VACUUM MOTOR HARNESS (ITEM \*66) USING TIE WRAP (ITEM \*52) SECURE HARNESS TO VACUUM HOSE USING TIE WRAPS (ITEM \*67) AND CONNECT TO J1 ON POWER BOARD.
- FASTEN (ITEM \*50) TO FRONT OF LOGIC ASSY. CHASSIS AND SECURE VACUUM SYSTEM HOSE. HOSE SHOULD NOT COME IN CONTACT WITH COMPONENTS ON REAR OF DECK PLATE.
- USE ONLY ON REAR CHASSIS TRACKS QTY. 4 PER TRACK.
- WITH TRANSPORT FULLY IN CAB LOOSEN CLAMP AT VACUUM ASSY, TWIST HOSE UNTIL HOSE FORMS A SERVICE LOOP ABOVE OR IN PARALLEL WITH VACUUM SYSTEM.
- THIS ITEM MUST BE CONNECTED TO A MAIN VERTICAL UPRIGHT GROUND STAND OFF.

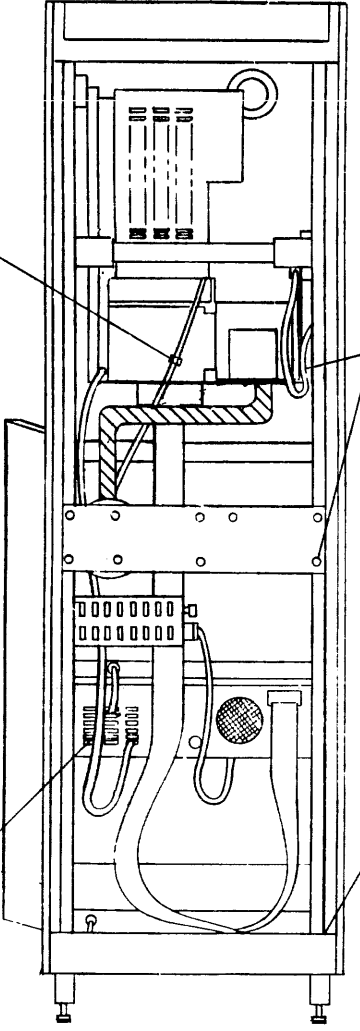
REV.	CHG.	NO.	DATE	BY	DESCRIPTION
1					
2					
3					
4					
5					
6					
7					
8					

THIRD ANGLE PROJECTION		DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CLASS OF ACCURACY		MICROINCHES		RANGE INCHES	
SURFACE QUALITY		CHECK ONE		MEDIUM		PREFERRED	
QUANTITY & VARIATION		DRN. V. DUGGAN 8-21-74		CHK'D D. SCHMIDT 9-24-74		ENG. R. BARJUNE 9-24-74	
REMOVE BURRS AND BREAK SHARP CORNERS		DO NOT SCALE DWG		NEXT HIGHER ASSY.		MATERIAL	
FINISH		SCALE		SHEET		OF 7	
TITLE		MAG TAPE DRIVE (TU16)		SIZE CODE		DUA TU16-0-0	
REV. P		DIST.		REV. P		REV. P	

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DUAL TU16-0-0 2

50  
52  
SEE NOTE #13



REAR VIEW

27  
28  
29  
(QTY 4)

95 REF. 15  
66  
67(QTY)

62  
63  
64  
POWER SUPPLY  
SEE DWG. E-UP-71M02

45  
51 (QTY 2)  
SEE NOTE #9  
SHEET #1

SEE NOTE #6  
SHEET #1

17 (QTY 3)

9 REF  
34 REF

5  
SEE NOTE 10  
SEE DETAIL 'C'  
VIEW FF

SEE NOTE #14

50  
67

35  
SEE NOTE #5  
SHEET #1

SEE DETAIL 'A'

65 (QTY 2)

57  
56  
SEE NOTE 7

55

37

SEE DETAIL 'B'

10  
11  
12  
13

51  
SEE NOTE #12  
SHEET 1

SIDE VIEW

**CAUTION**  
THIS SHEET IS FOR THE TU16  
IN THE H950 SERIES CAB

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
MAG TAPE DRIVE (TU16)	DUAL	TU16-0-0	R
SCALE	SHEET	DIST.	
	2 OF 7		

SEC 101M 40  
DWD 111

8

7

6

5

4

3

2

1

A

B

P

C

D

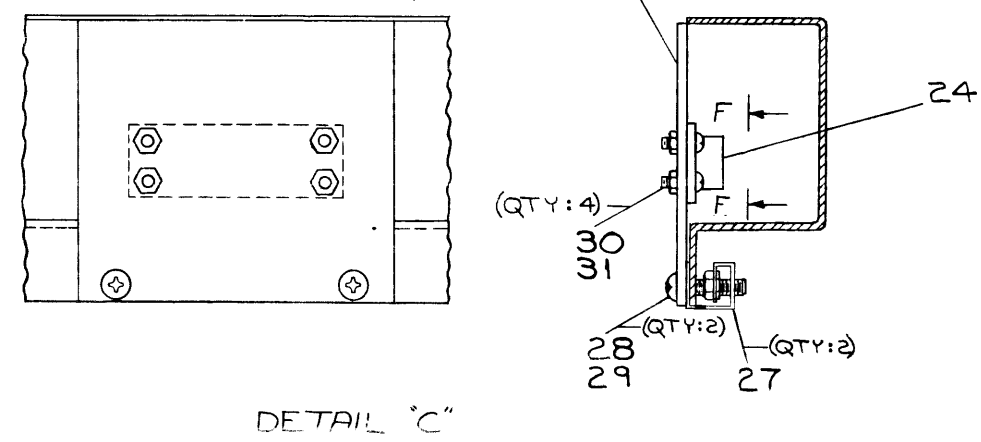
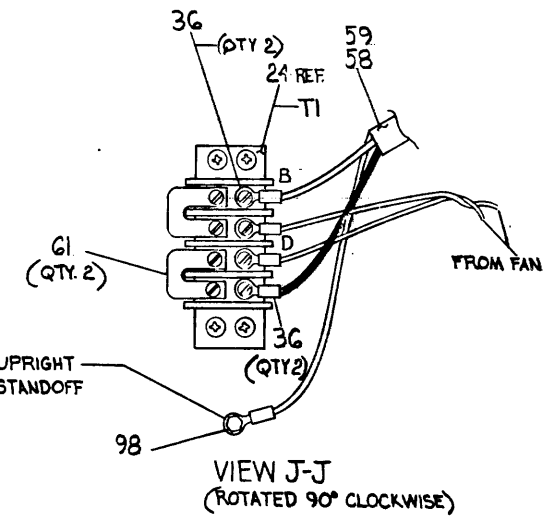
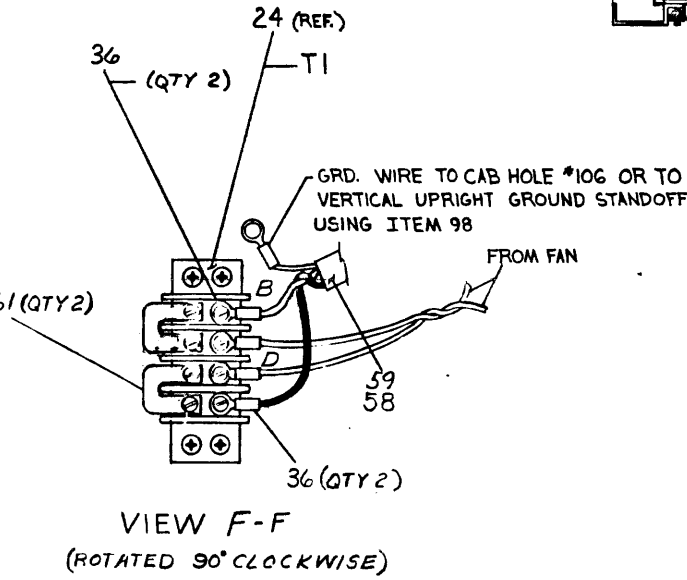
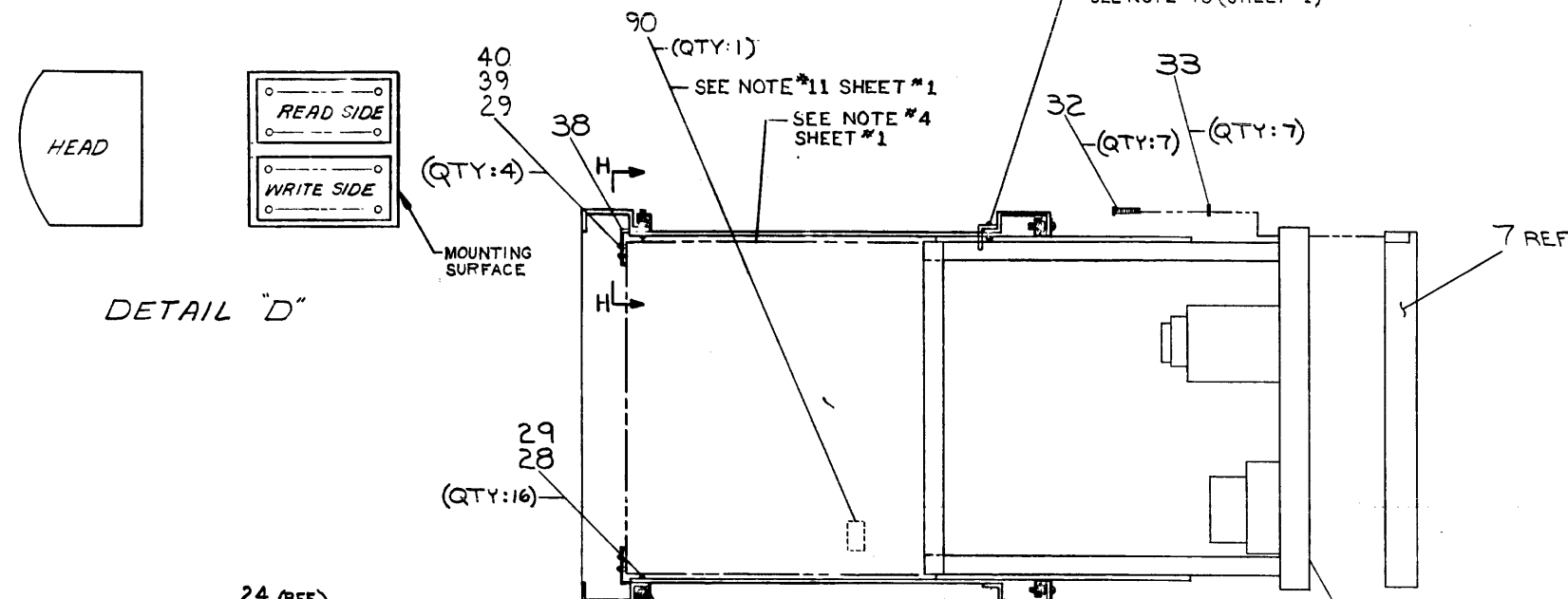
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CABLE CHART						
ITEM NO	DESCRIPTION	FROM	TO	REMARKS		
54		EG1 POWER BOX	PLUG			
58				T1-B	PT-2	
				T1-D	PT-1	
5		FAN-1		T1-A	ITEM 36	
		FAN-2		T1-C	ITEM 36	
18		READ BOARD		HEAD-READ SIDE		SEE DETAIL 'D'
20		WRITE BOARD		HEAD-WRITE SIDE		SEE DETAIL 'D'

LOCATION OF "TINNERMAN NUTS" (ITEM #27)	
LOCATE ALL NUTS BY COUNTING HOLES UP FROM BOTTOM OF CABINET UPRIGHT	
FRONT HOLE NUMBERS	REAR HOLE NUMBERS
RIGHT SIDE: 9,13,32*,33*,103,104,105,106	RIGHT SIDE: 32*,33*,53,60
LEFT SIDE: 9,13,32*,33*,84,85,86,87	LEFT SIDE: 32*,33*,53,60
LEFT SIDE HOLE NUMBERS FRONT: 67	RIGHT SIDE HOLE NUMBERS FRONT:
REAR: 84,85,86,87	REAR: 7,103,103,105,106

NOTE:  
\* NUMBERS WITH ASTERISKS USED ONLY WHEN TMØ2 IS USED.



**CAUTION**  
THIS SHEET IS FOR THE TUIG IN THE H950 SERIES CAB

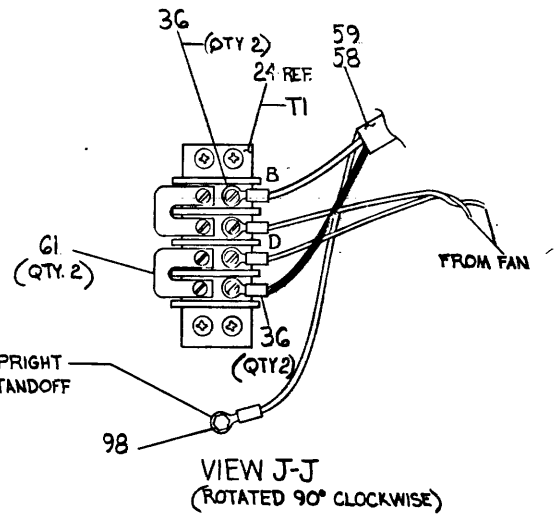
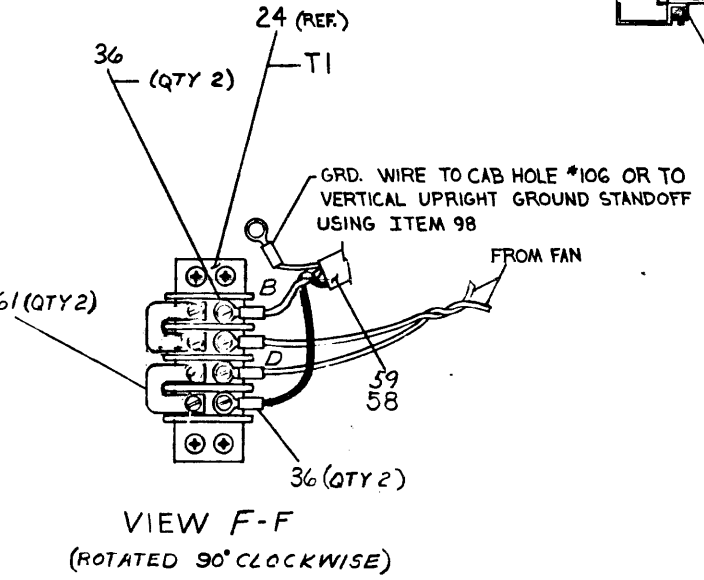
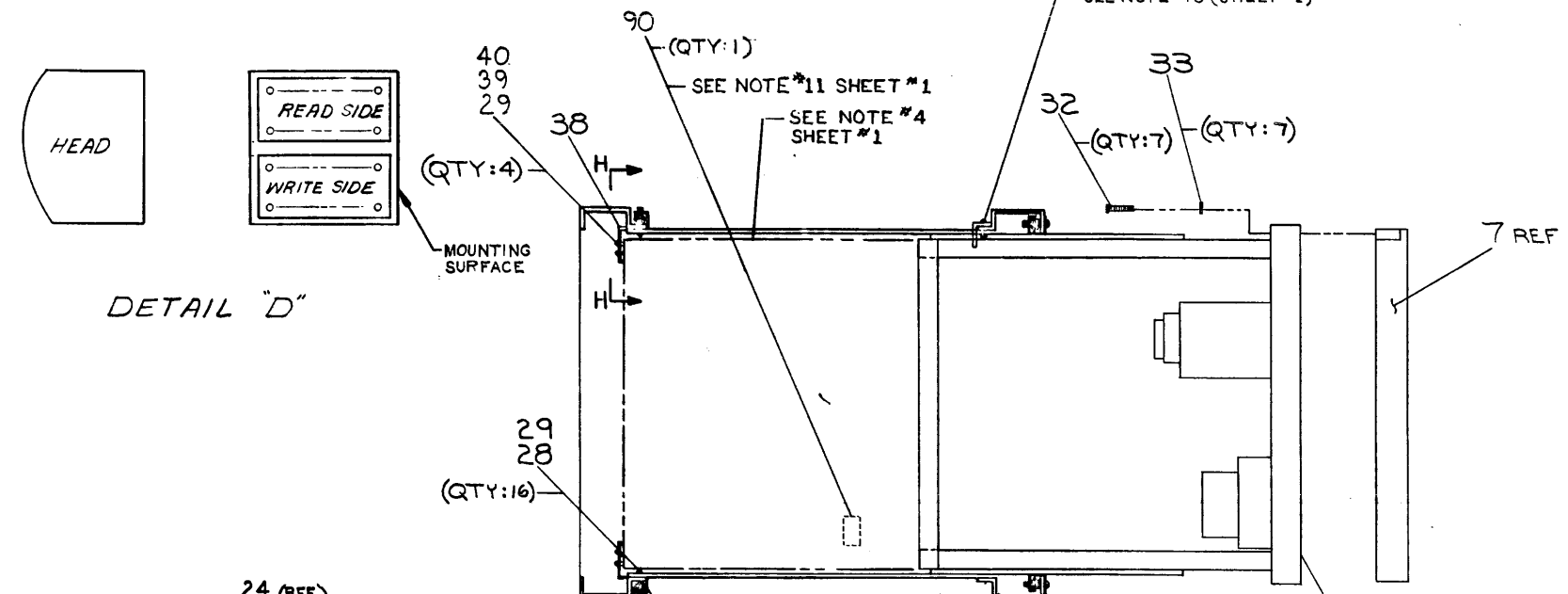
REVISIONS		
CHK	CHANGE NO.	REV

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CABLE CHART							
ITEM NO	DESCRIPTION	FROM	TO	REMARKS			
59		B6 POWER BOX	PLUG				
58				T1-B	PT-2		
				T1-D	PT-1		
5		FAN-1		T1-A	ITEM 36		
		FAN-2		T1-C	ITEM 36		
18		READ BOARD		HEAD-READ SIDE			
20		WRITE BOARD		HEAD-WRITE SIDE			SEE DETAIL 'D'

LOCATION OF "TINNERMAN NUTS" (ITEM #27)	
LOCATE ALL NUTS BY COUNTING HOLES UP FROM BOTTOM OF CABINET UPRIGHT	
FRONT HOLE NUMBERS	REAR HOLE NUMBERS
RIGHT SIDE: 9,13,32,33,103,104,105,106	RIGHT SIDE: 32,33,53,60
LEFT SIDE: 9,13,32,33,84,85,86,87	LEFT SIDE: 32,33,53,60
LEFT SIDE HOLE NUMBERS FRONT: 67	RIGHT SIDE HOLE NUMBERS FRONT:
REAR: 84,85,86,87	REAR: 7,103,104,105,106

NOTE:  
\* NUMBERS WITH ASTERISKS USED ONLY WHEN TMØ2 IS USED.

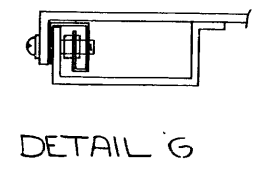
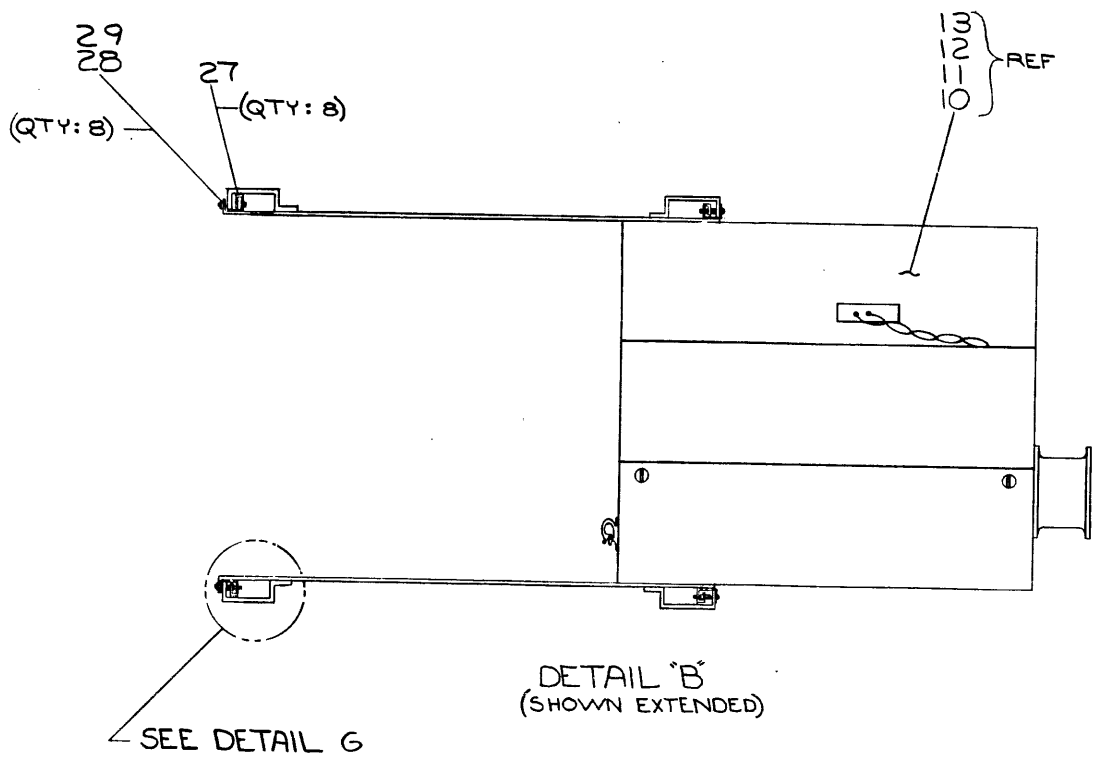
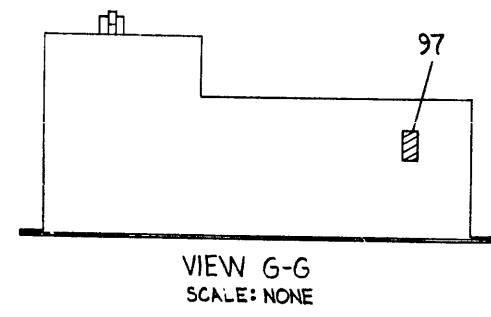
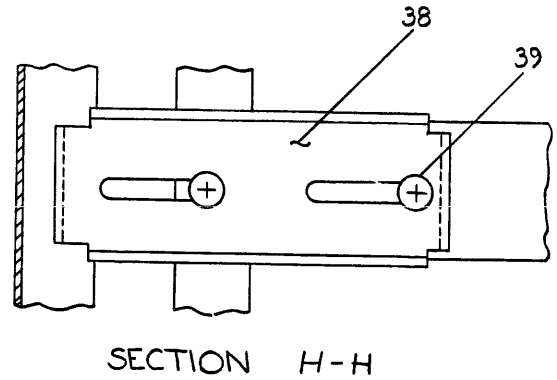
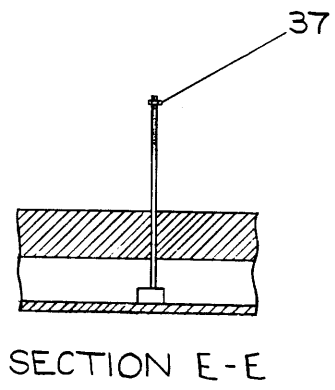


**CAUTION**  
THIS SHEET IS FOR THE TUI6 IN THE H95Ø SERIES CAB

REVISIONS		
CHK	CHANGE NO.	REV

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SIZE CODE 2  
 NUMBER TUI6-0-0  
 DIST. P



DETAIL "B"  
 (SHOWN EXTENDED)

**CAUTION**  
 THIS SHEET IS FOR THE TUI6  
 IN THE H950 SERIES CAB

REVISIONS		
CHK	CHANGE NO	REV

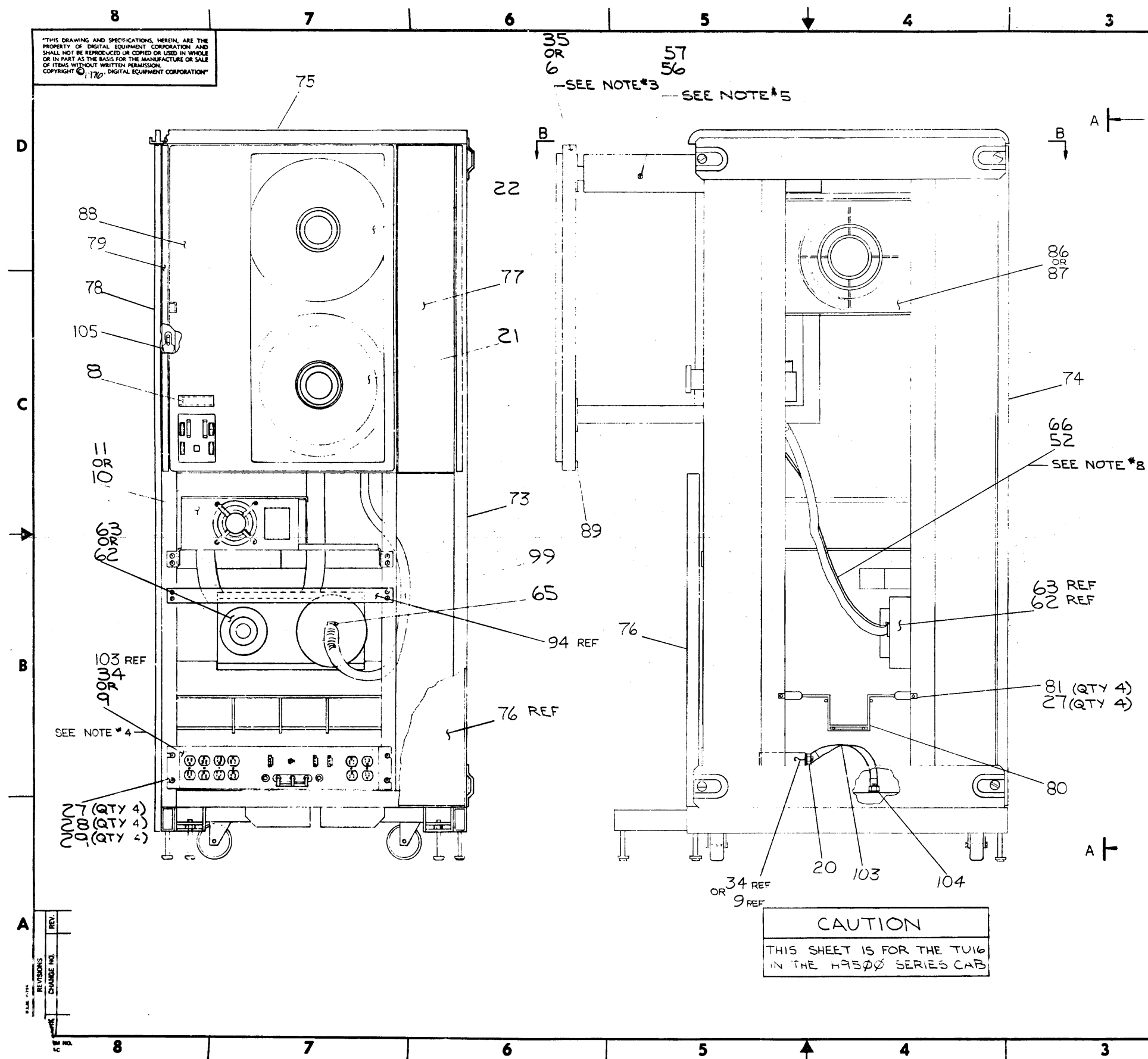
TITLE	SIZE CODE	NUMBER	REV.
MAG TAPE DRIVE (TUI6)	D UA	TUI6-0-0	R M
SCALE	SHEET	DIST.	
H	4 OF 7		

DEC FORM 117  
 DDD 137

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NOTES:

- FOR INFORMATION ON CONNECTING THE "BC06R I/O CABLE" (ITEM #17) TO THE TAPE TRANSPORT ASSY (ITEMS #6, #35) REFER TO D-MU-TU16-0-MU.
- PHANTOM LINES REPRESENT "TAPE TRANSPORT ASSY (ITEMS #6, #35) IN CLOSED POSITION TO SHOW LOCATION OF "SHIPPING BRACKETS" (ITEM #38).
- TO CONVERT FROM 120 TO 240 VAC OPERATION, CUT MALE END FROM TU16'S POWER CORD, THEN CONNECT THE CORD TO "240 VAC MALE CONN" (ITEM #43, NOT SHOWN).
- POWER CORD ROUTING FOR:  
861 POWER CONTROL - "CABLE CLAMP" (ITEM #42, NOT SHOWN), "TINNERMAN NUT" (ITEM #27), "PHL TRUSS HD SCREW" (ITEM #28) AND "KEP NUT" (ITEM #29) TO MOUNT ON RIGHT SIDE REAR HOLE #10, ROUT CORD THRU CABLE CLAMP AND OUT THE BOTTOM OF CABINET.  
TU16 - ROUTE CORD THRU "CABLE CLAMP" (ITEM #54, NOT SHOWN) SECURED WITH THE ABOVE HARDWARE, LOCATE ON THE LEFT SIDE FRONT HOLE #67, OUTSIDE OF CHASSIS SLIDE AND INTO PLUG ON 861.
- "HEX HD SCREW" (ITEM #56) AND "KEP NUT" (ITEM #5) ARE USED AS A POSITIVE STOP TO PREVENT PULLING THE "TAPE TRANSPORT ASSY (ITEMS #6, #35) OUT OF THE CAB AND MUST BE INSTALLED WHEN THE "TAPE TRANSPORT" IS MOUNTED TO CAB. USE "BLK EXTRUDED TUBING" (ITEM #53) TO COVER "38 IN GROUND STRAP" (ITEM #46) AND USE 2 "CABLE TIES" (ITEM #52, NOT SHOWN) TO SECURE TUBING TO STRAP.
- GROUND STRAP JUMPER FROM TM02 LOGIC BOX TO BE CONNECTED TO GROUND LUG AT BOTTOM OF BASE CAB.
- SECURE "VACUUM MOTOR HARNESS" (ITEM #66) TO "HOSE" (ITEM #99) AND CONNECT HARNESS TO J1 ON THE POWER BOARD.
- INSTALL "TINNERMAN NUT" (ITEM #27) INTO HOLES #76 & #77 ON THE RIGHT FRONT SIDE OF CAB AND MOUNT "STOP BRACKET" (ITEM #68) AS SHOWN.
- REMOVE HEX HD. CAP SCREW IN FRAME ASSY. (ITEM #73) TO ASSEMBLE COUNTERWEIGHT LEAD, (ITEM #100) & BRKT COUNTERWEIGHT (ITEM #101) TO FRAME ASSY.

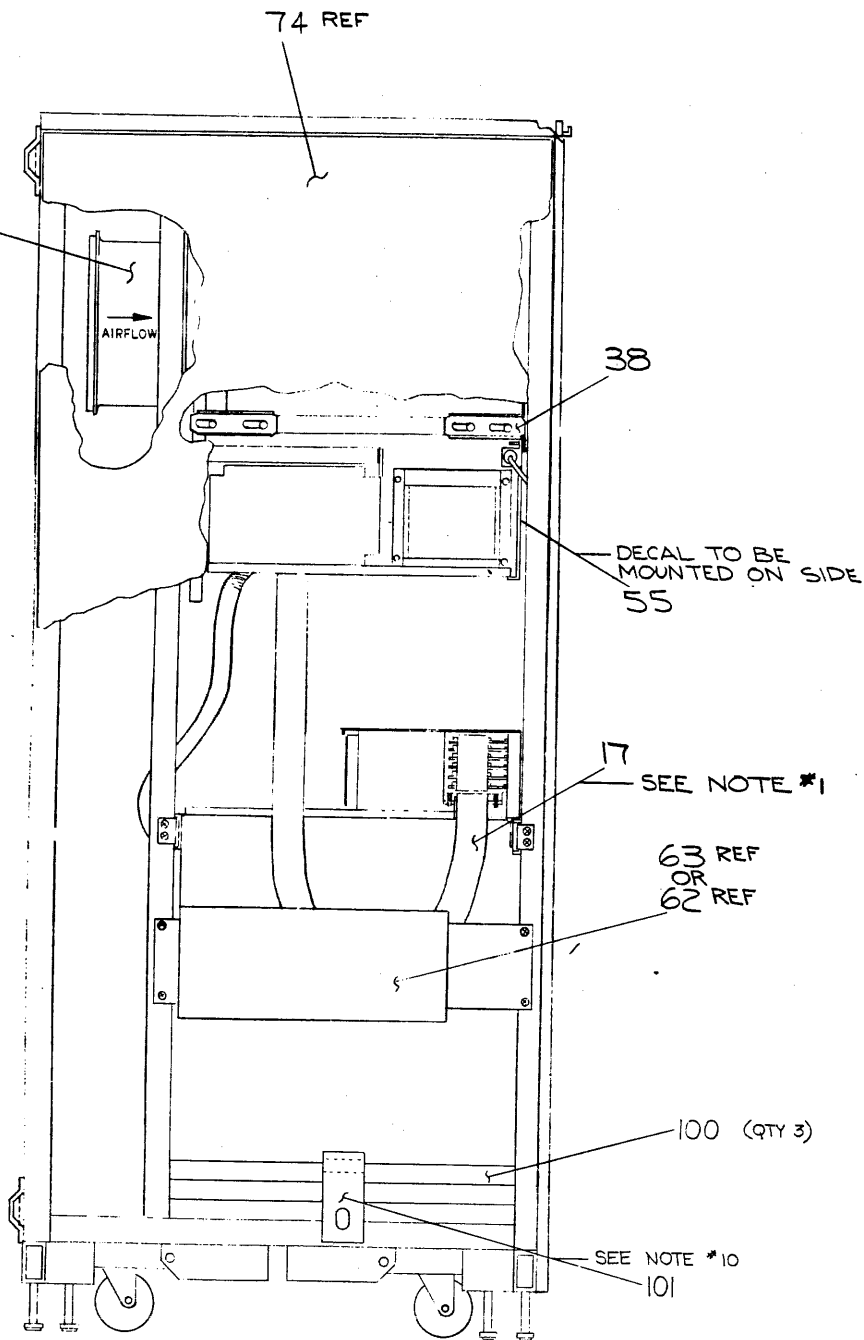


**CAUTION**  
THIS SHEET IS FOR THE TU16  
IN THE H9500 SERIES CAB

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 30° 30'	CLASS OF ACCURACY	TYPICAL DIMENSION RANGES IN INCHES	
SURFACE QUALITY	CHECK ONE	0.001 TO 0.01	0.002 TO 0.01
QUANTITY & VARIATION	MEDIUM	0.012 TO 0.018	0.018 TO 0.024
	PREFERRED	0.012 TO 0.018	0.018 TO 0.024
THIRD ANGLE PROJECTION	DRN. M. DUGAN 8-21-74	FIRST USED ON	TU16
REMOVES BURRS AND BREAK SHARP CORNERS	CHK'D D. S. HEALY 9-24-74	ENG. F. ANDONE 9-24-74	PROJ. ENG. EARL ONE 9-24-74
DO NOT SCALE DWG	NEXT HIGHER ASSY.	TITLE MAG TAPE DRIVE (TU16)	
MATERIAL	B-D-D-TU16-0	SIZE CODE	NUMBER
SCALE	NONE	DUA	TU16-0-0
FINISH	5 OF 7	DIST.	REV. P

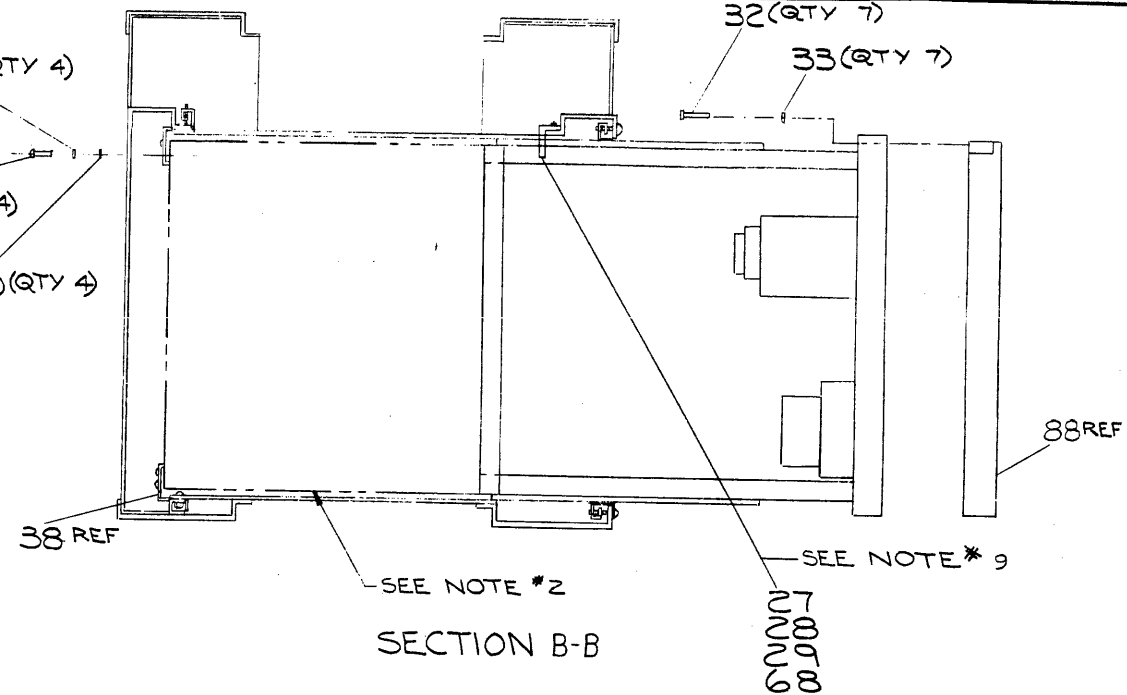
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87 REF  
OR  
86 REF



VIEW-AA

41 (QTY 4)  
39 (QTY 4)  
40 (QTY 4)



SECTION B-B

LEGEND (CONT. FROM SHEET 1)		
NUMBER	VARIATION DESCRIPTION	VOLTAGE
TU16-AA	TU16-AE & TM02-FA	115V, 60 HZ
TU16-AB	TU16-AF & TM02-FB	230V, 60 HZ
TU16-AC	TU16-AH & TM02-FA	115V, 50 HZ
TU16-AD	TU16-AJ & TM02-FB	230V, 50 HZ
TU16-AE	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE / NRZI	115V, 60 HZ
TU16-AF	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE / NRZI	230V, 60 HZ
TU16-AH	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE / NRZI	115V, 50 HZ
TU16-AJ	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE / NRZI	230V, 50 HZ

LOCATION OF "TINNERMAN NUTS" (ITEM #27)	
LOCATE ALL NUTS BY COUNTING HOLES UP FROM BOTTOM OF CABINETS UPRIGHT	
FRONT HOLE NUMBERS	REAR HOLE NUMBERS
RIGHT SIDE: 3, 7, 25, 28, 31, 32, 85, 86, 87, 88	RIGHT SIDE: 16, 23, 31, 32
LEFT SIDE: 3, 7, 25, 28, 31, 32, 66, 67, 68, 69	LEFT SIDE: 16, 23, 31, 32
RIGHT SIDE HOLE NUMBERS	LEFT SIDE HOLE NUMBERS
FRONT: 17, 66, 79	FRONT: 17
REAR: 17, 66, 79, 85, 86, 87, 88	REAR: 17, 66, 67, 68, 69

CAUTION

THIS SHEET IS FOR THE TU16 IN THE H9500 SERIES CAB

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.						
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
THIRD ANGLE PROJECTION	ANGLES 30° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES						
			OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0	
DRN. M. DUGGAN 8-21-74	FIRST USED ON								
CHK'D. SCHMIDT 9-24-74	TU16								
ENG. J. BARDONE 9-24-74	TITLE								
PROJ. ENG. BARDONE 9-24-74	MAG TAPE DRIVE (TU16)								
PROD. R. COGUEN 10-2-74									
DO NOT SCALE DWG	NEXT HIGHER ASSY.								
MATERIAL	B-DD-TU16-0	SIZE	CODE	NUMBER	REV.				
FINISH	SCALE NONE	D	UA	TU16-0-0	P				
	SHEET 6 OF 7	DIST.							

REV.	CHANGE NO.

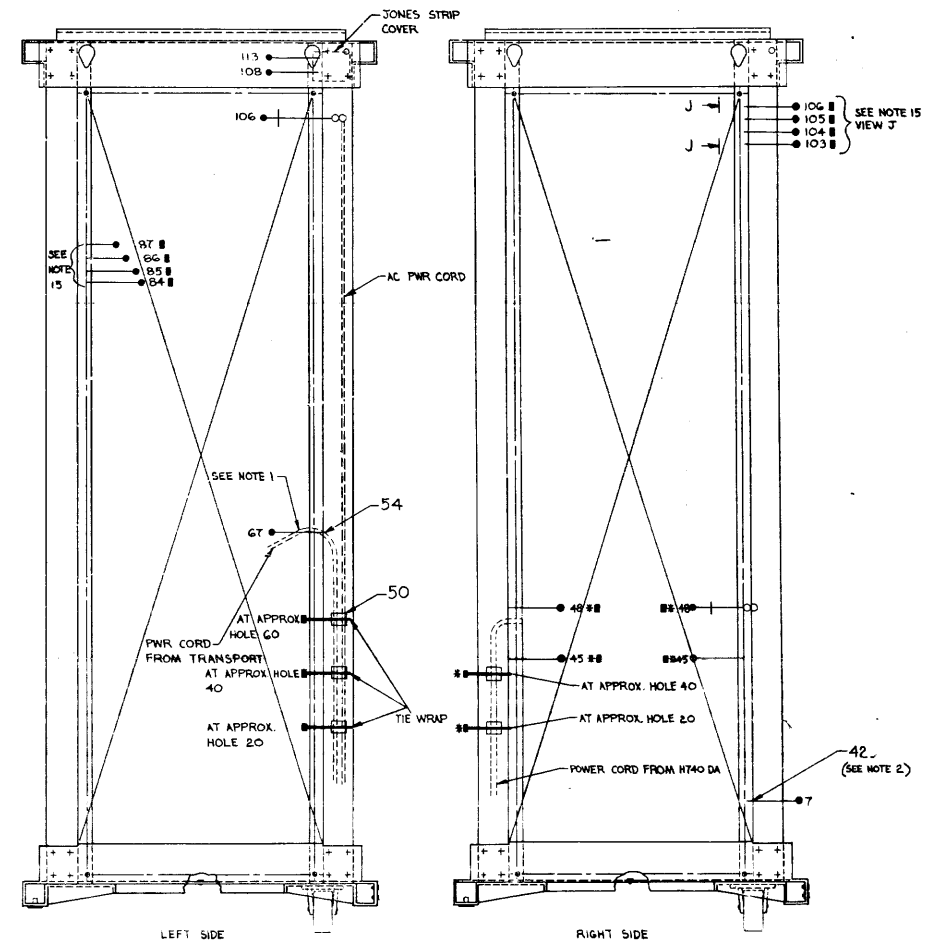
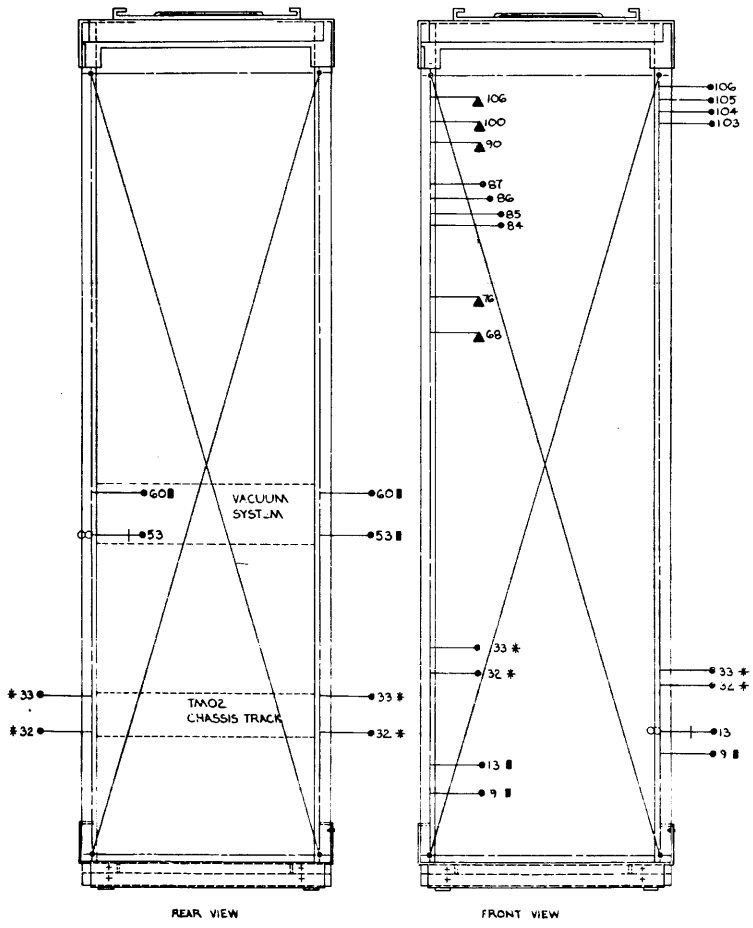
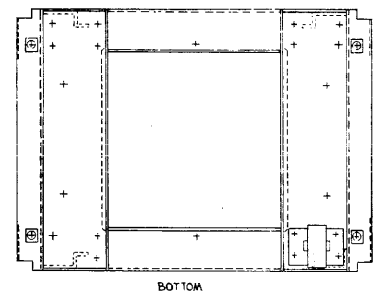
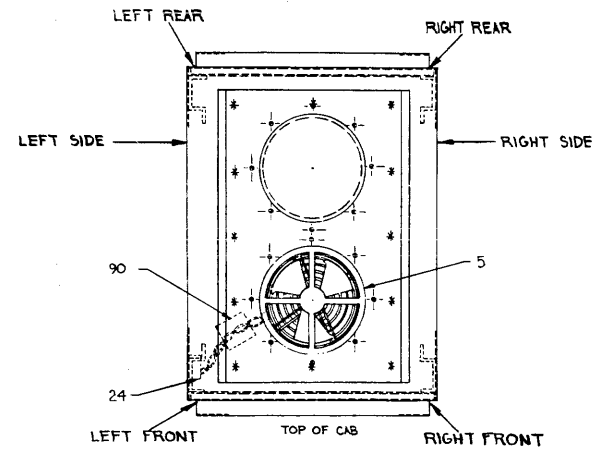
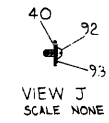
DEC FORM NO. 104-DC

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HARDWARE AID PRINT

NOTES:

1. USE .375 CLAMP FOR POWER CORD FROM TRANSPORT 90T083, USE FLAT WASHER.
  2. USE .625 CLAMP FOR B61 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 90T86T FOR TIE WRAP
- \* THIS SIGN INDICATES USE ONLY WHEN INSTALLING A TM02
- USE FLAT WASHER #10
- ∞ USE KEP-NUT #10-32



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV
MAG TAPE DRIVE (TUI6)	DUA	TUI6-0-0	D
SCALE	SHEET	OF	
	7	7	

REV P.1

B

A