

digital

TUI6
Engineering Drawings
Digital Equipment Corporation

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DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE		SEQUENCE
	DRAWING DIRECTORY	B-DD-TU16-Ø
	LOGIC AND WRITE BOARD	D-CS-M891Ø-Ø-1
	CLOCK AND TEST LOGIC	D-CS-M8911-Ø-1
	SLAVE TEST FUNCTION GEN.	D-CS-M8912-Ø-1
	POWER BOARD	D-CS-H6Ø6-Ø-1
	READ CHAN. AMP/ANA. & DIA	D-CS-GØ56-Ø-1
	D.S. POWER SUPPLY	D-CS-5410451-0-1
	GENERAL PURPOSE CARD (E & F)	D-CS-M9ØØ1-YA-1
	GENERAL PURPOSE CARD (A & B)	D-CS-M9ØØ1-YB-1
	GENERAL PURPOSE CARD (E & F)	D-CS-M9ØØ1-YC-1
	DATA DRIVER	D-CS-M8913-Ø-1
	DATA DRIVER	D-CS-M8913-YA-1
	GENERAL PURPOSE CARD (A & B)	D-CS-M9ØØ1-Ø-1
	CONTROL BOX	D-CS-7009637-0-1
	WIRED ASSY	E-AD-7009635-0-0
	HEAD BOARD	D-CS-GØ66-0-1
	WIRE LIST	K-WL-TU16-Ø-WL
	MODULE UTILIZATION	D-MU-TU16-Ø-MU
	MASS BUS TRANSCIEVER	D-BS-TU16-Ø-2
	TAPE TRANSPORT ASSY	E-AD-7009634-0-0
	MAGTAPE DRIVE	D-UA-TU16-0-0

SHEET 1 ONLY

UNIT VARIATIONS		PRINT SET		
VAR	TITLE	1		
TU16-EE	SLAVE 115V 60 HZ	X		
TU16-EF	SLAVE 230V 60 HZ	X		
TU16-EH	SLAVE 115V 50HZ	X		
TU16-EJ	SLAVE 230V 50 HZ	X		
TU16-EA	TU16-EI & TMØ2-FA			
TU16-EB	TU16-EF & TMØ2-FB			
TU16-EC	TU16-EH & TMØ2-FA			
TU16-ED	TU16-EJ & TMØ2-FB			
TU16-EK	TU16-EE & TMØ2-FC			
TU16-EL	TU16-EF & TMØ2-FD			
TU16-EM	TU16-EH & TMØ2-FC			
TU16-EN	TU16-EJ & TMØ2-FD			
TU16-AE	SLAVE 115V 60 HZ			
TU16-AF	SLAVE 230V 60 HZ			
TU16-AH	SLAVE 115V 50 HZ			
TU16-AJ	SLAVE 230V 50 HZ			
TU16-AA	TU16-AE & TMØ2-FA			
TU16-AB	TU16-AF & TMØ2-FB			
TU16-AC	TU16-AH & TMØ2-FA			
TU16-AD	TU16-AJ & TMØ2-FB			

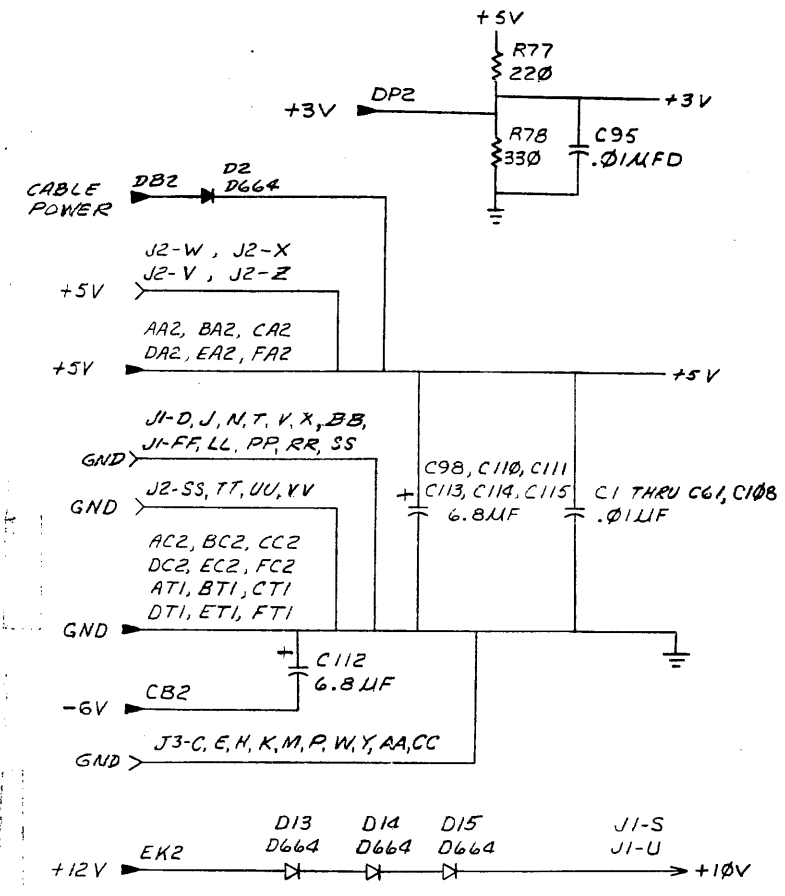
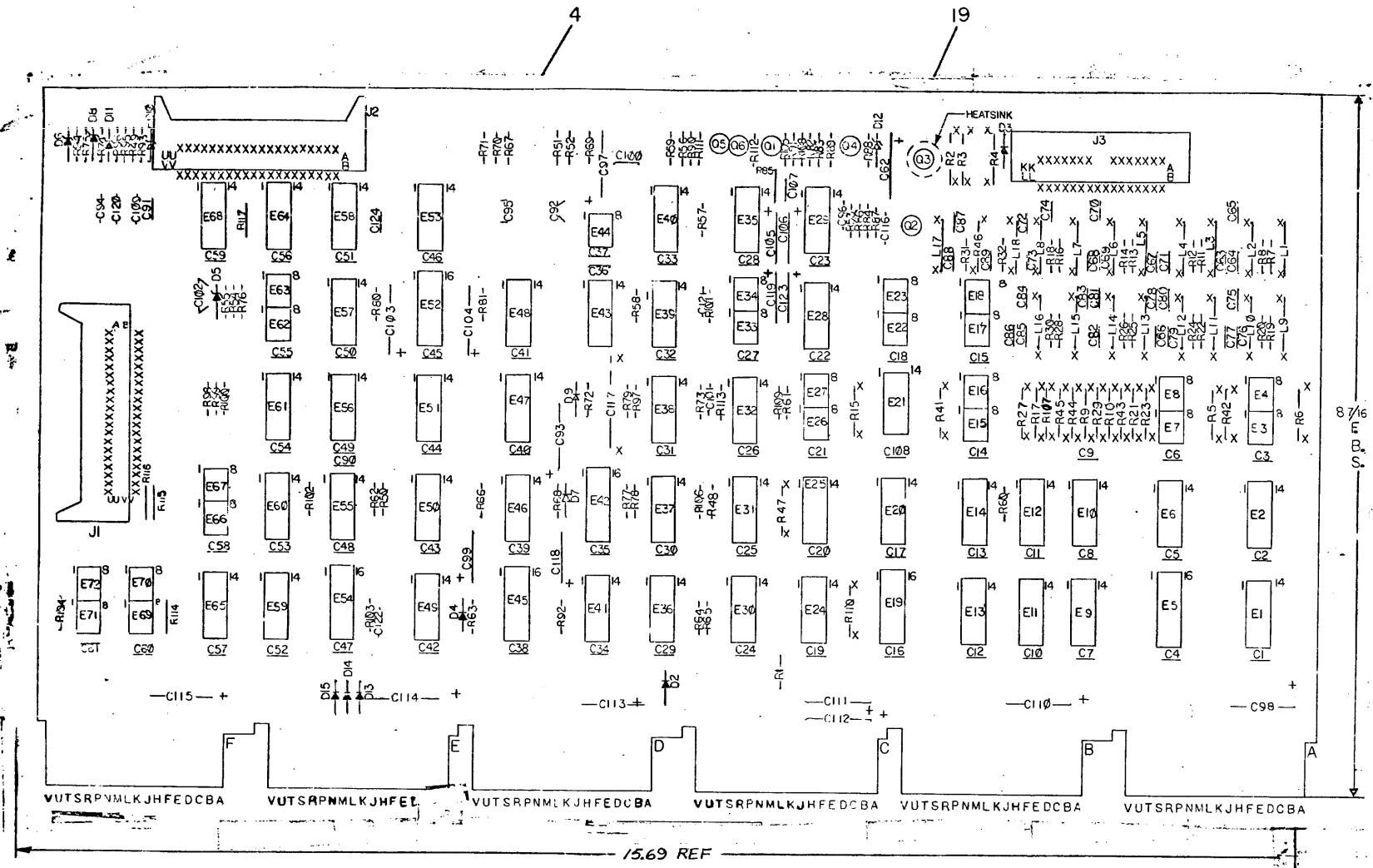
INS	REV	NO.	DESCRIPTION	DATE	BY	USED ON OPTION/MODEL	TITLE	NO.	REV
	A		TU16-5				MAGNETIC TAPE UNIT		
	B		TU16-6						
	C		TU16-9						
	D		TU16-10						
	E		TU16-11						
	F		TU16-12						
	H		TU16-13						
	J		TU16-14						
	K		TU16-15						
	L		TU16-16						
	M		TU16-19						
	N		7005743-2						
	P		TU16-20						
	R		TU16-21						
	S		TU16-22						
	T		TU16-23						
	U		TU16-25						
	V		TU16-28						
	W		TU16-29						
	Y		TU16-30						
	Z		TU16-31						
	AA		TU16-32						
	AB								

DEC 18 1974

DATE: 12/21/74
 TIME: 10:30
 TITLE: MAGNETIC TAPE UNIT
 NO.: TU16-Ø
 REV: A-B
 SHEET 1 OF 12
 MP-0TU16-00

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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

REVISIONS

REV	CHANGE NO.	DATE	BY
1	1	11/19/74	J. HESS
2	1	11/19/74	J. HESS
3	1	11/19/74	J. HESS
4	1	11/19/74	J. HESS
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97	1	11/19/74	J. HESS
98	1	11/19/74	J. HESS
99	1	11/19/74	J. HESS
100	1	11/19/74	J. HESS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION MODEL				
TU16				
ETCH BOARD REV E				
PARTS LIST				
DRN: 2/3/74				
CHKD: 2/11/74				
DATE: 11-9-74				
EKS: 2/11/74				
DATE: 2/11/74				
PROJ. ENG: 2/11/74				
DATE: 2/11/74				
MFGD: 2/11/74				
DATE: 2/11/74				
NEXT HIGHER ASSY				
SCALE: 1:1				
SHEET OF 9				
SEMICONDUCTOR CONVERSION CHART				
SIZE CODE: DCS M8910-0-1				
NUMBER: (LAWI)				
REV: KR				

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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 1N748A 3.9V	1100122	21
1	D3	DIODE D670-1	1102162	22
5	D5, D6, D8, D10, D11	DIODE 1N746A 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

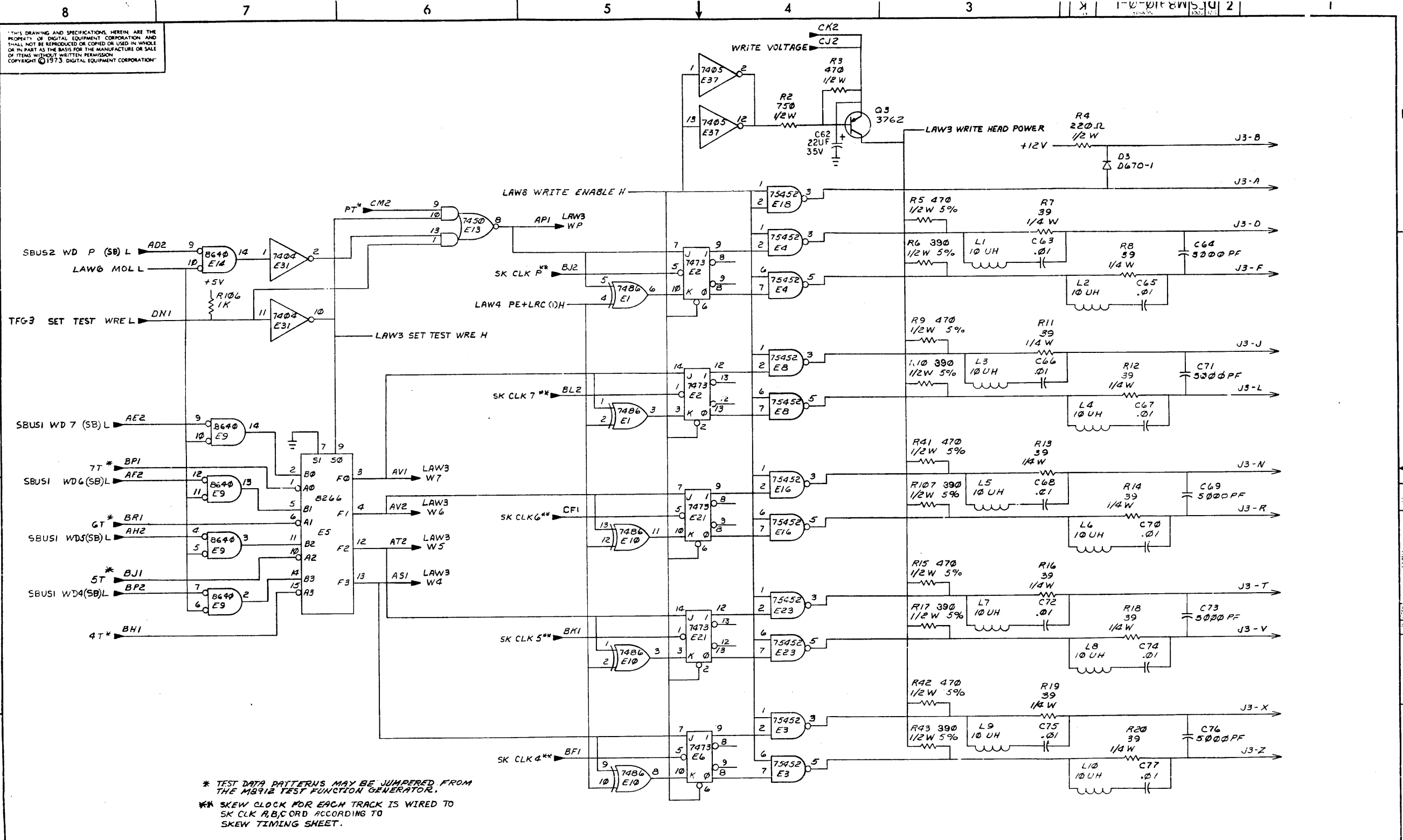
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
2	Q1, Q2	TRANSISTOR 3639B	1502762	46
3	Q4, Q5, Q6	TRANSISTOR 6531B	1509938	47
1	Q3	TRANSISTOR 3762	1509649	48
18	L1 THRU L18	INDUCTOR, FIXED, 10UH, 10%	1609477	49
7	E11, E51, E53, E59, E60, E65, E47	I.C. 7474	1905547	50
4	E28, E41, E58, E68	I.C. 7400	1905575	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	E39	I.C. 8242	1909712	60
2	E37, E38	I.C. 7405	1909990	61
3	E5, E19, E54	I.C. 8266	1909994	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, E16, 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
APR		WIRE, SOLID, INSULATED	9105740-55	73
APR		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.	

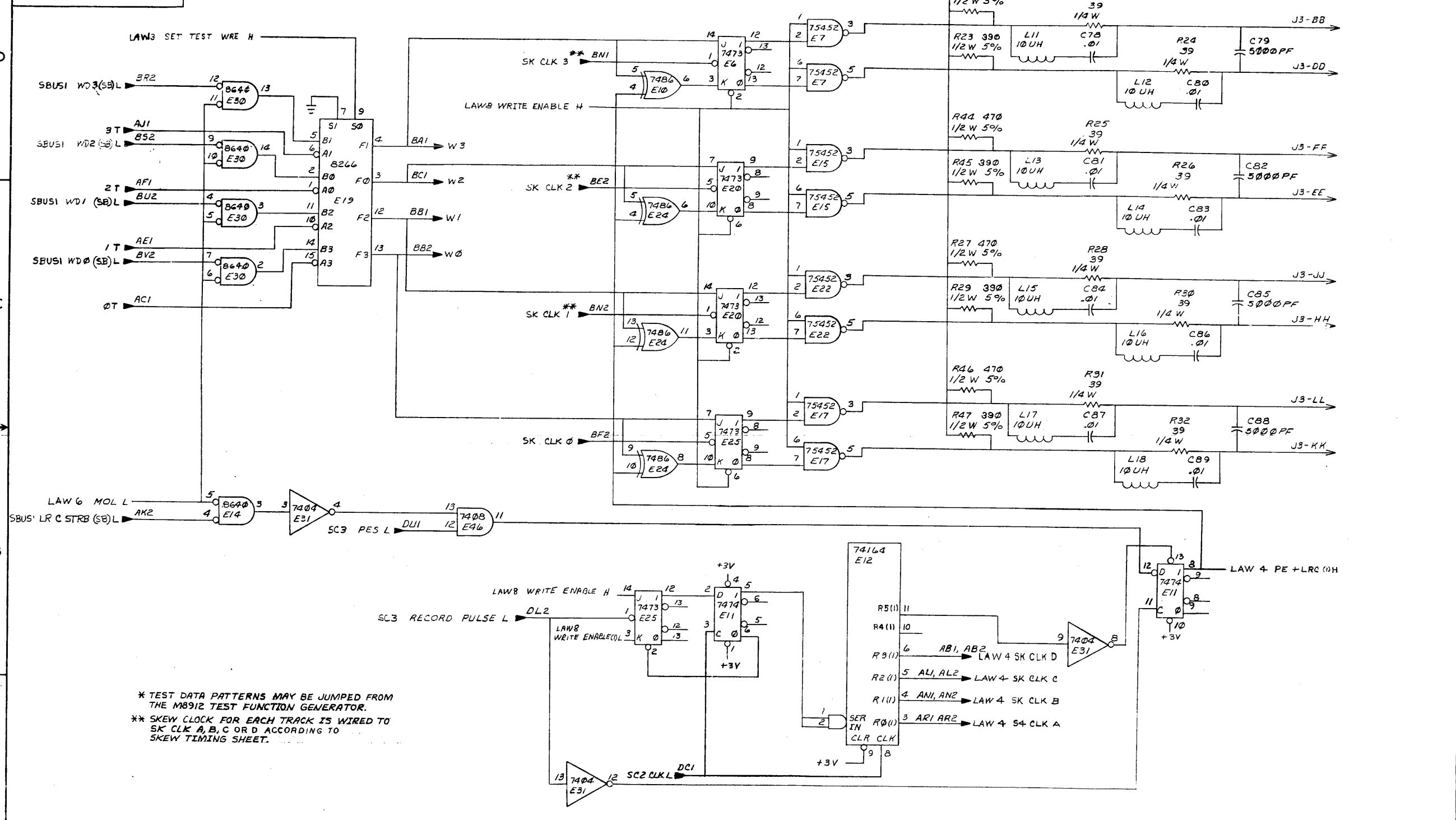
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* TEST DATA PATTERNS MAY BE JUMPED FROM THE M8912 TEST FUNCTION GENERATOR.
 ** SKEW CLOCK FOR EACH TRACK IS WIRED TO SK CLK A,B,C OR D ACCORDING TO SKEW TIMING SHEET.

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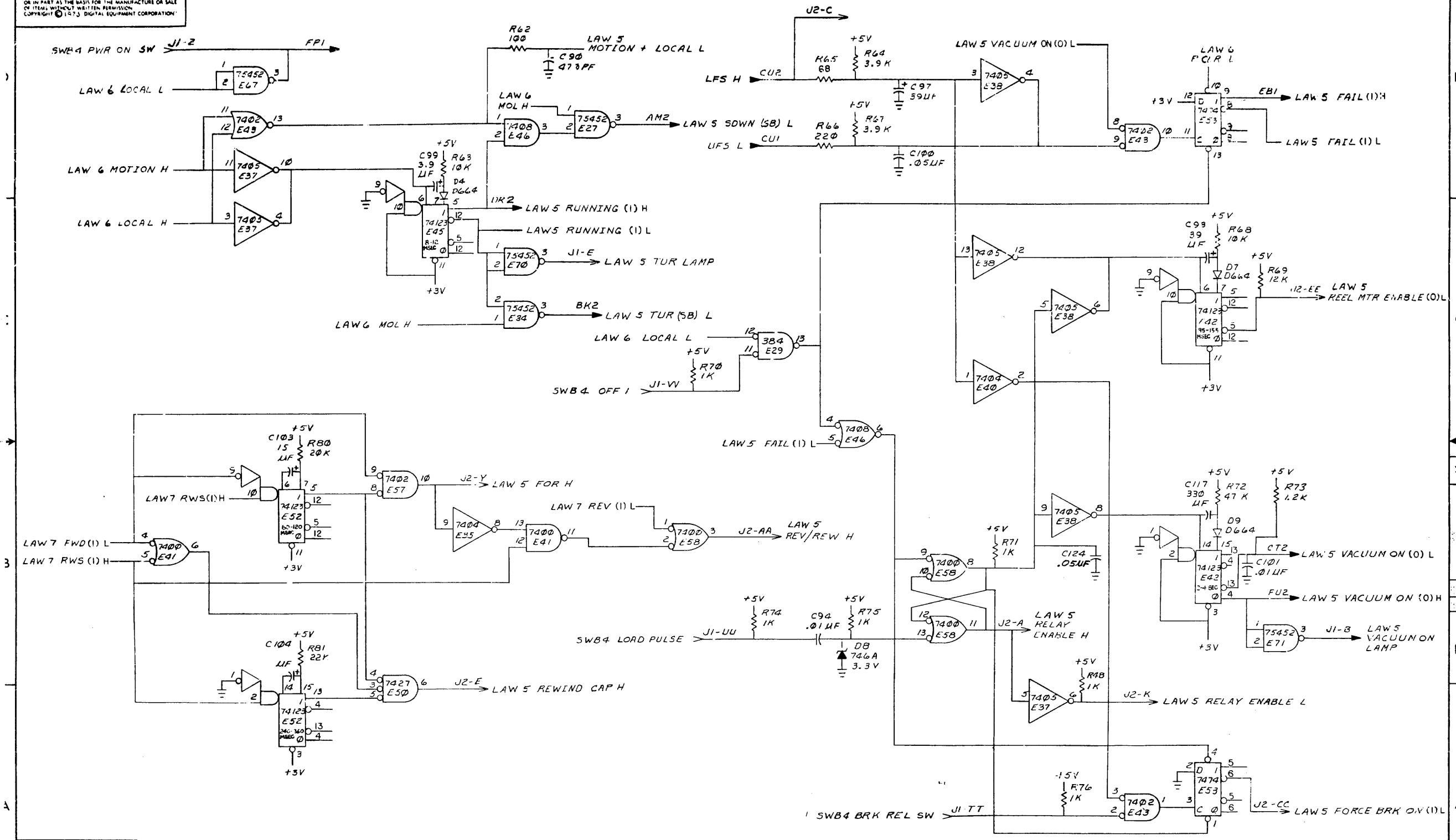
TITLE	LOGIC AND WRITE BOARD (LAW3)	SIZE CODE	D CS M8910-0-1	NUMBER		REV	K
SCALE		SHEET	3 OF 9	DIST.			



* 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.

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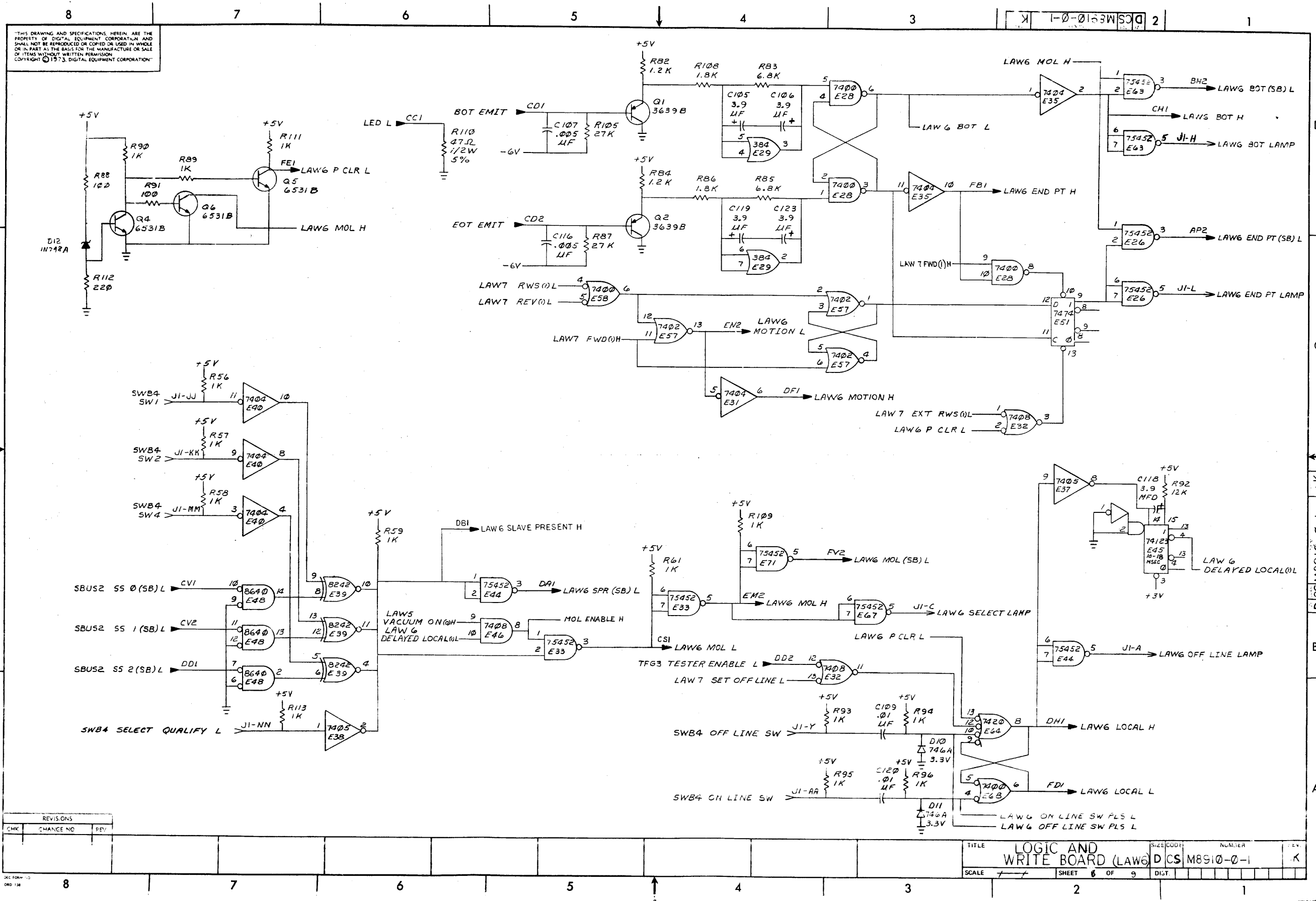
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REVISIONS		
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TITLE: LOGIC AND WRITE BOARD (LAW 5) DCS M0910-0-1
 SHEET 5 OF 9
 SCALE: DIS.

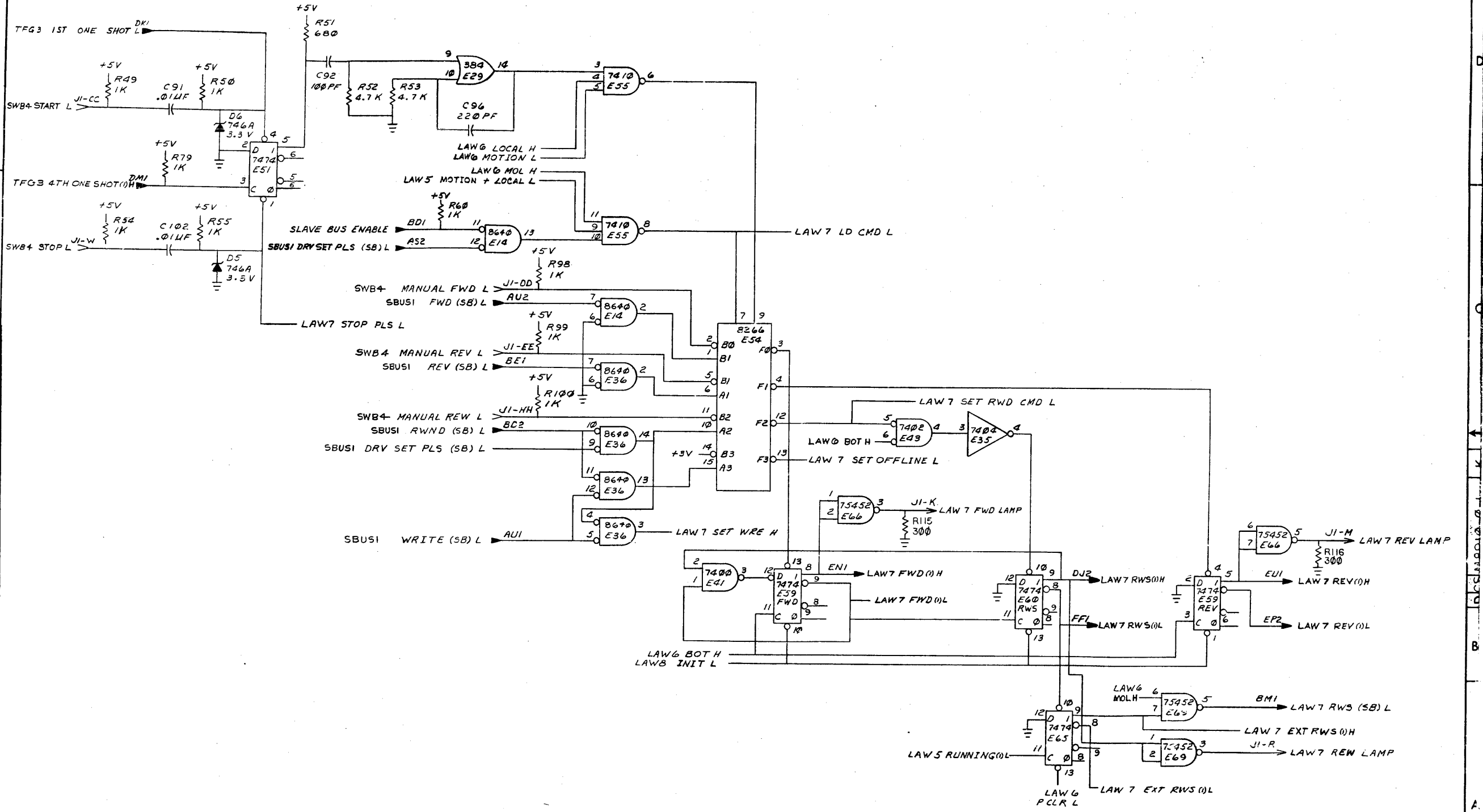
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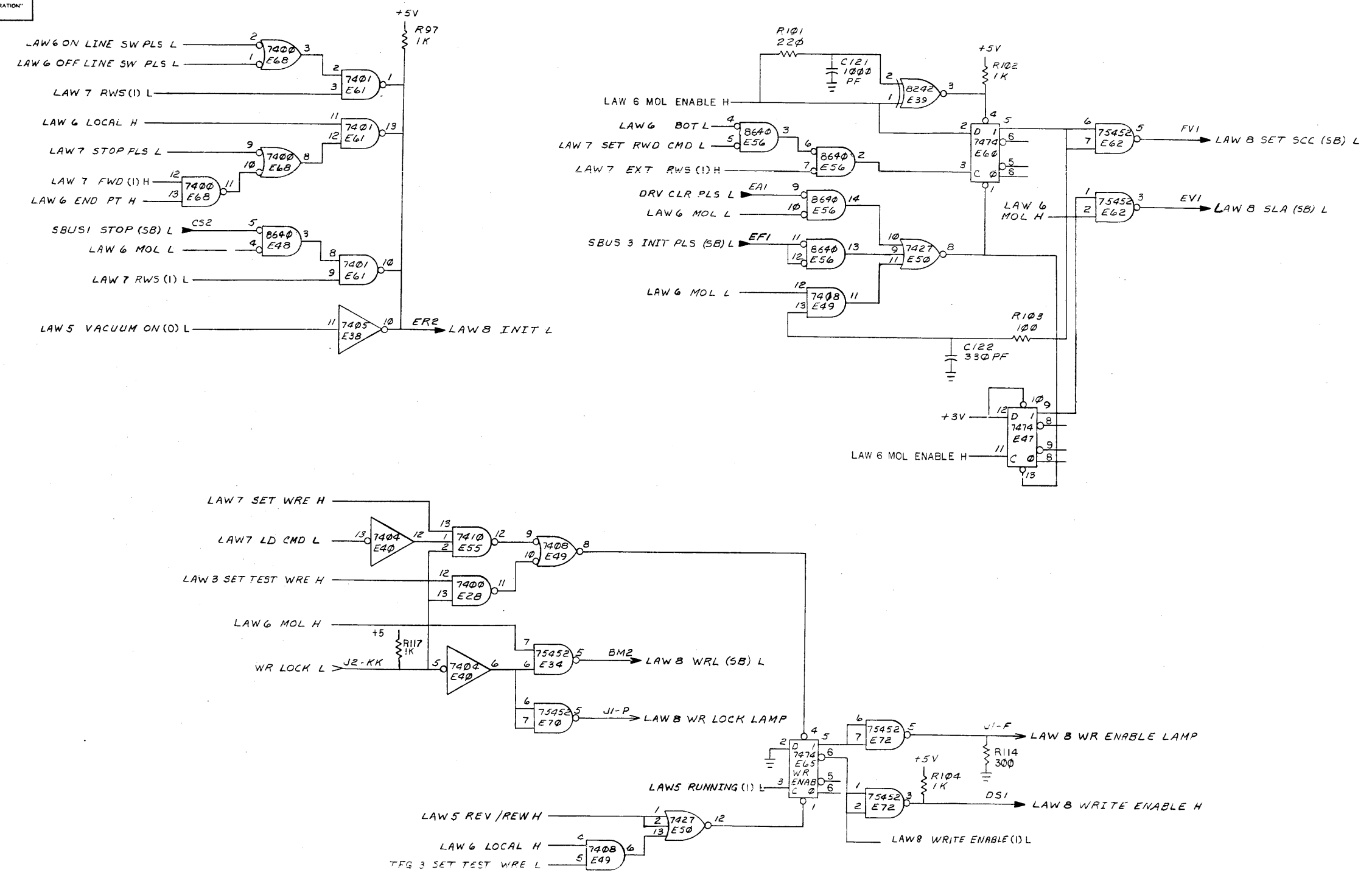
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 SHEET 6 OF 9
 SCALE: 1:1
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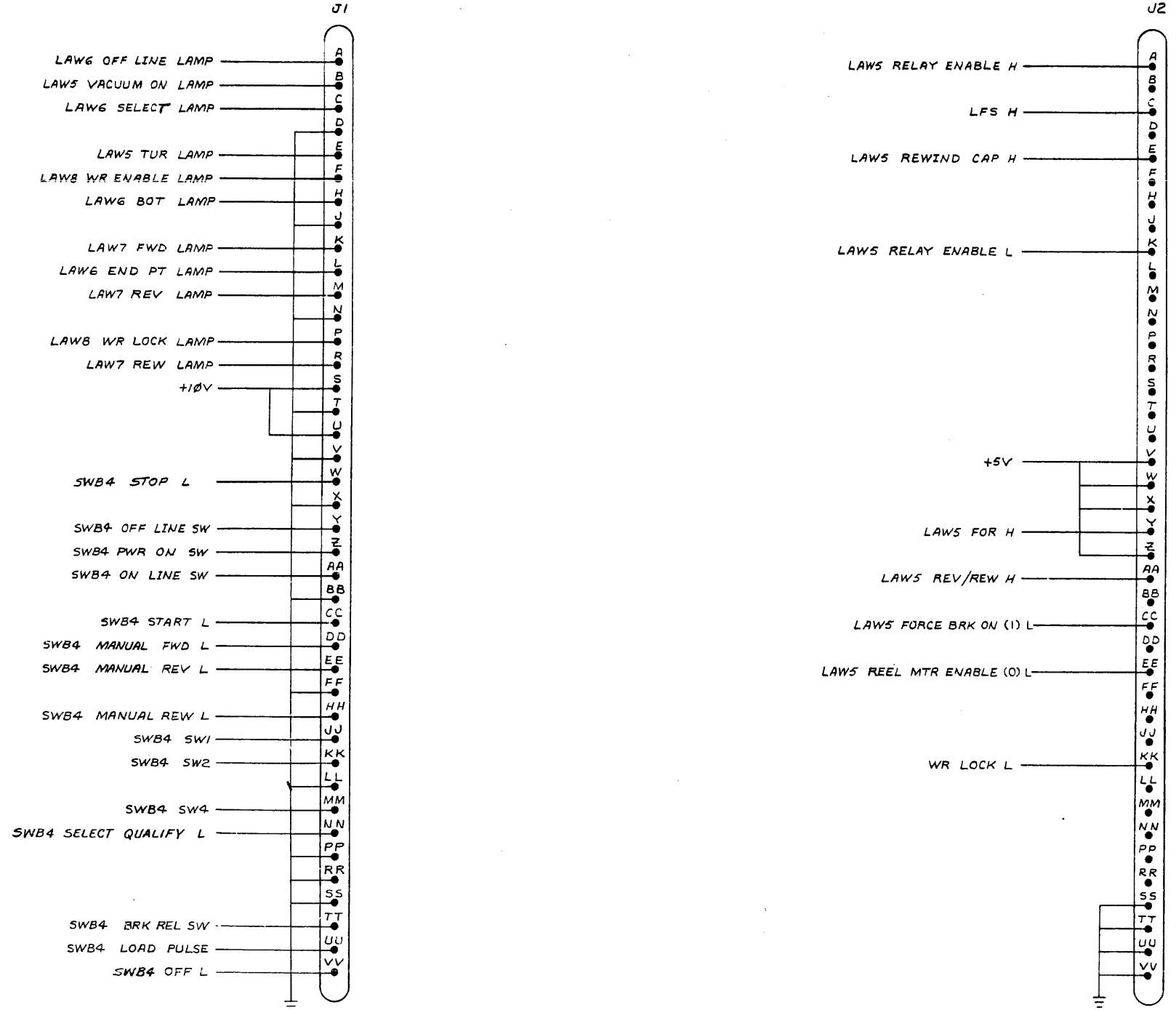
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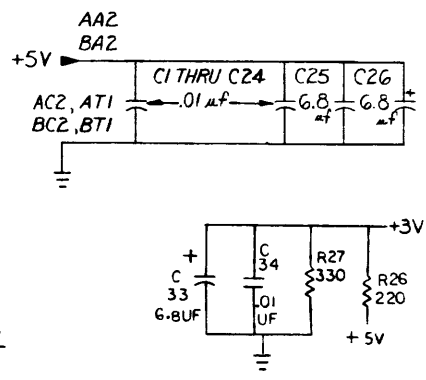
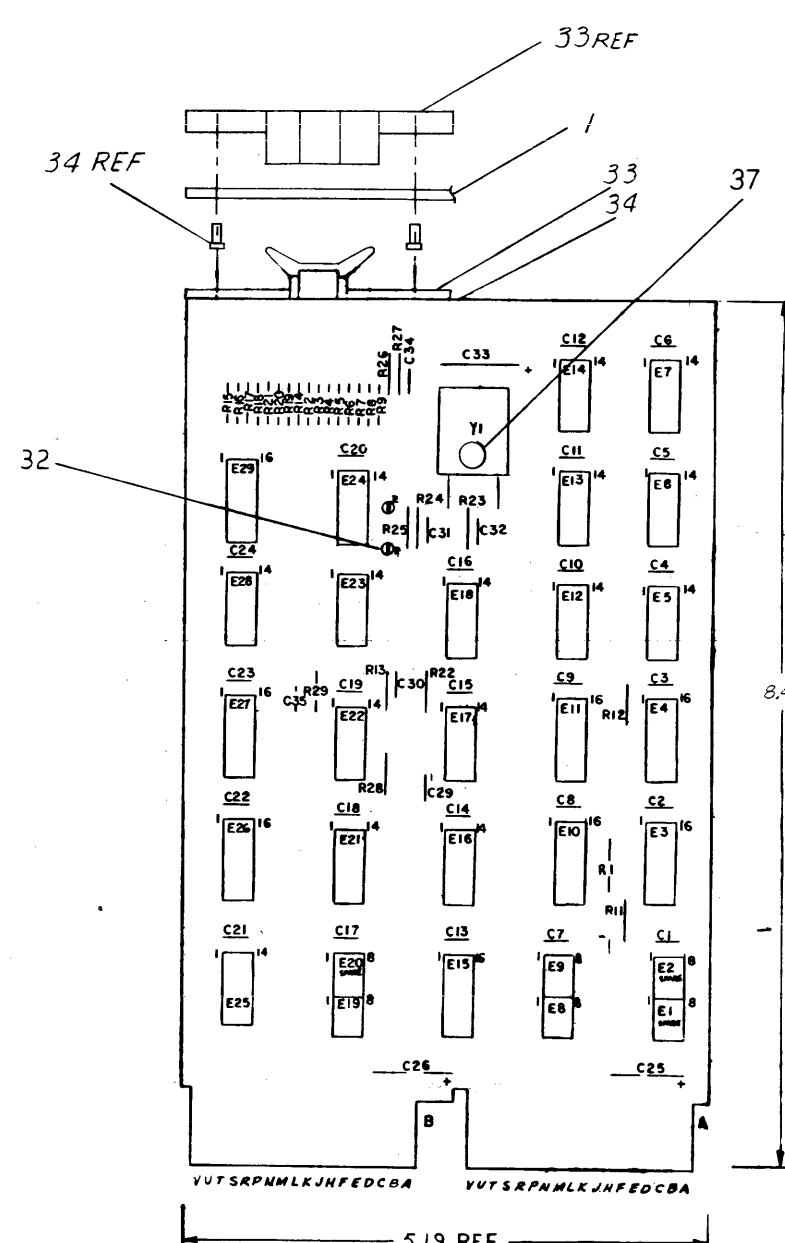
SWITCH BOX CONNECTOR



REVISIONS		
CHK	CHANGE NO	REV

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NOTES:



REF	REF	REF	REF	REF	REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8911-0-4	REF	
REF	REF	REF	REF	REF	REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8911-0-5	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 UF	1001610	2
2	2	2	2	2	2	C29, C30	CAP 1000PF	1000042	3
2	2	2	2	2	2	C31, C32	CAP .047UF	1009678	4
3	3	3	3	3	3	C25, C26, C33	CAP 6.8 UF	1005306	5
3	3	3	3	3	3	R13, R27, R28	RES 330 1/4 W 5%	1300295	7
3	3	3	3	3	3	R23 THRU R25	RES 10K 1/4 W 5%	1300479	8
17	17	17	17	17	17	R1 THRU R9, R14 THRU R21	RES 27K 1/4 W 5%	1300426	9
3	3	3	3	3	3	R11, R12, R22	RES 1K 1/4 W 5%	1300365	10
2	2	2	2	2	2	R26, R29	RES 220 1/4 W 5%	1300271	11
1	1	1	1	1	1	Y1	CRYSTAL 2.304 MHZ	1811110	12
2	2	2	2	2	2	E23, E28	IC 74197	1910035	13
3	3	3	3	3	3	E6, E12, E25	IC 7404	1909686	14
3	3	3	3	3	3	E3, E4, E10	IC 74161	1910650	15
3	3	3	3	3	3	E5, E13, E18	IC 7402	1909004	16
1	1	1	1	1	1	E11	IC 7476	1905585	17
2	2	2	2	2	2	E15, E26	IC 8266	1909934	18
2	2	2	2	2	2	E7, E14	IC 11380	1911113	19
1	1	1	1	1	1	E24	IC 380	1912549	20
3	3	3	3	3	3	E8, E9, E19	IC 75452	1910645	21
1	1	1	1	1	1	E17	IC 7400	1905575	22
1	1	1	1	1	1	E16	IC 7408	1910155	23
1	1	1	1	1	1	E22	IC 7486	1910011	24
1	1	1	1	1	1	E21	IC 7430	1905578	25
-	-	-	-	-	-	E27	ROM, MOTION DELAY, 9TRK	23067A1	26
1	1	1	1	1	1	E29	ROM, SKEW DELAY	23089A1	27
-	-	-	-	-	-	E27	ROM, MOTION DELAY FOR M8911-YB	23180A1	28
									29
									30
									31
2	2	2	2	2	2	LUG, SPLIT	9006735		32
2	2	2	2	2	2	HANDLE, FLIP CHIP, MAGENTA	9008337-6		33
4	4	4	4	4	4	EYELET	9006732		34
1	1	1	1	1	1	C35	CAP .005UF, 100V, 20% DISC	1001765	35
-	-	-	-	-	-	E27	ROM, MOTION DELAY, TTRK	23147A1	36
1	1	1	1	1	1	E27	BUMPER, RUBBER SELF STICK	9009538	37
-	-	-	-	-	-	E27	PROM, MOTION DELAY, GAPLESS	23220A1-00	38
1	-	-	-	-	-	E27	PROM, MOTION DELAY, SHORT BOT	23221A1-00	39

IC TYPE	GND	+5V
5600	8	16
8266	9	16
75452	4	8
7476	13	5
74161	5	16
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
TU16

REV	CHG	DATE	BY
1	H. DRAB	2-5-72	
2	H. DRAB	6 JAN 78	
3	H. DRAB	11 MBS11-00007	K
4	H. DRAB	11 MBS11-00008	J
5	H. DRAB	11 MBS11-00009	H
6	H. DRAB	11 MBS11-00010	G
7	H. DRAB	11 MBS11-00011	F
8	H. DRAB	11 MBS11-00012	E
9	H. DRAB	11 MBS11-00013	D
10	H. DRAB	11 MBS11-00014	C
11	H. DRAB	11 MBS11-00015	B
12	H. DRAB	11 MBS11-00016	A

PARTS LIST

ETCH BOARD REV E

DRN: D. Bismonte DATE: 10-17-73
 CHKD: H. Drab DATE: 2/20/74
 ENG: H. Drab DATE: 3-5-74
 PRJ. ENG: H. Drab DATE: 3-5-74
 FILED: H. Drab DATE: 3-7-74

NEXT HIGHER ASSY

SCALE: 1 OF 3

SEMICONDUCTOR CONVERSION CHART

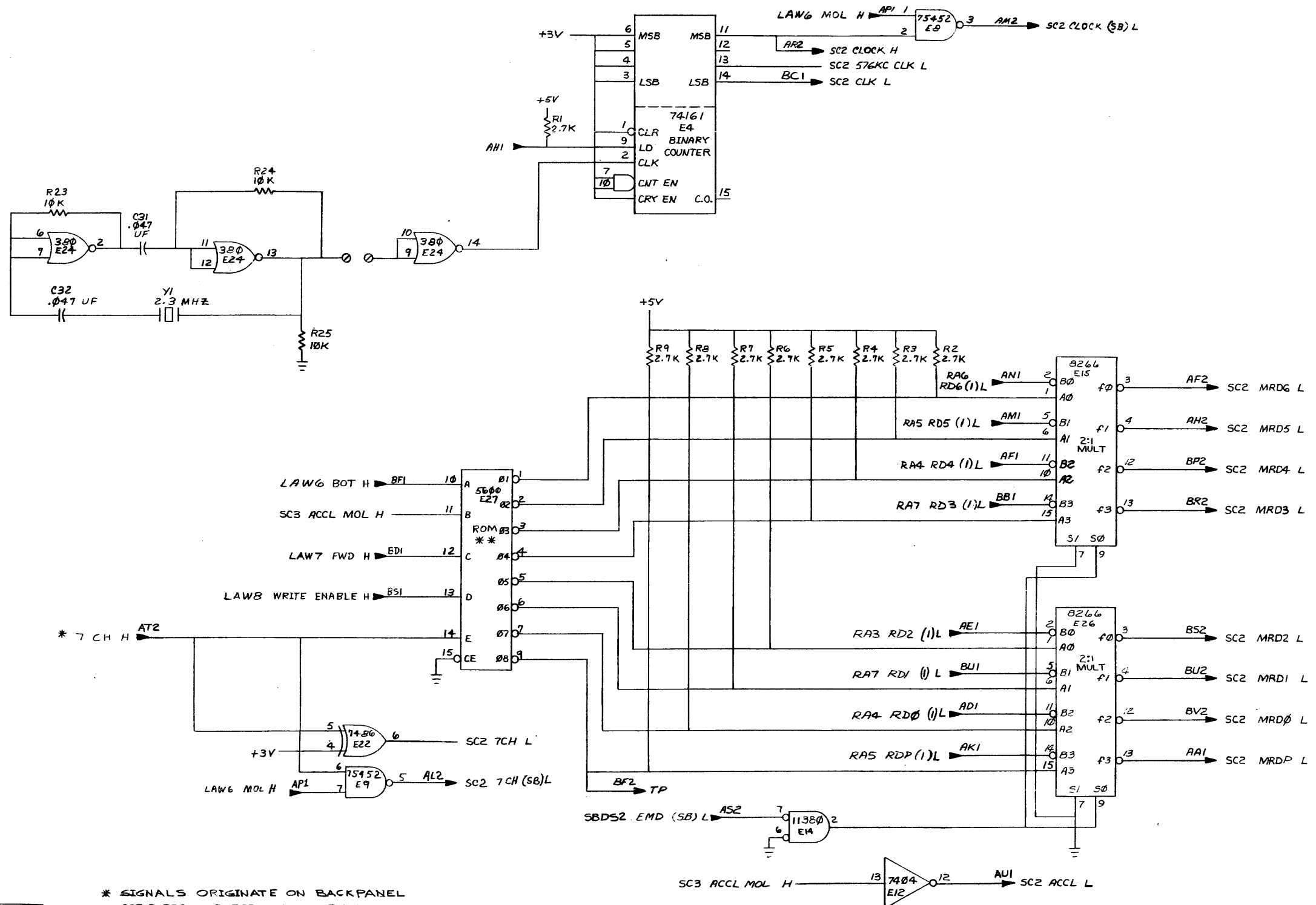
SIZE CODE: DCS M8911-0-1

REVISIONS

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

digital EQUIPMENT CORPORATION
 SLAVE CLOCK (SC1)
 MOTION DELAY

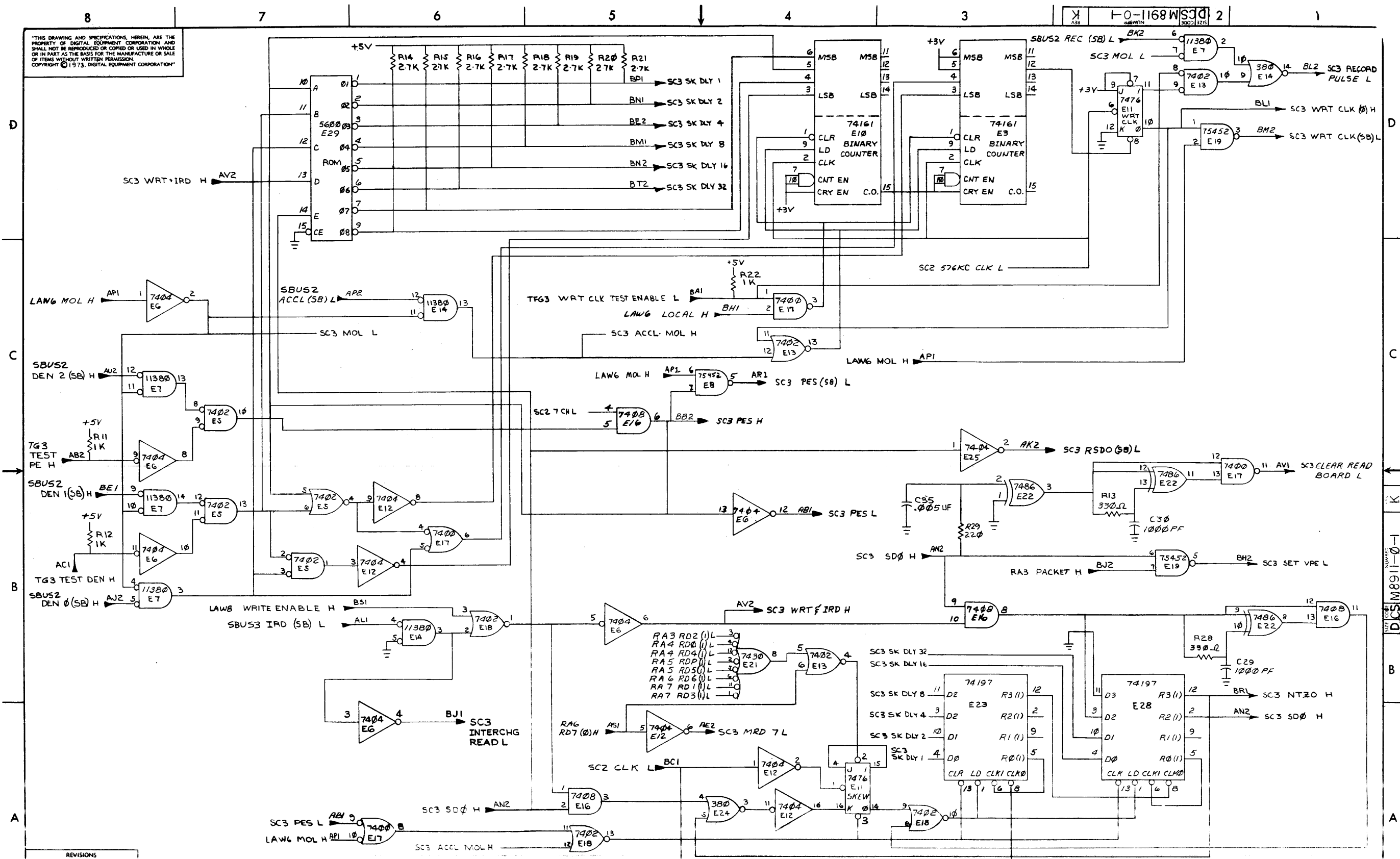
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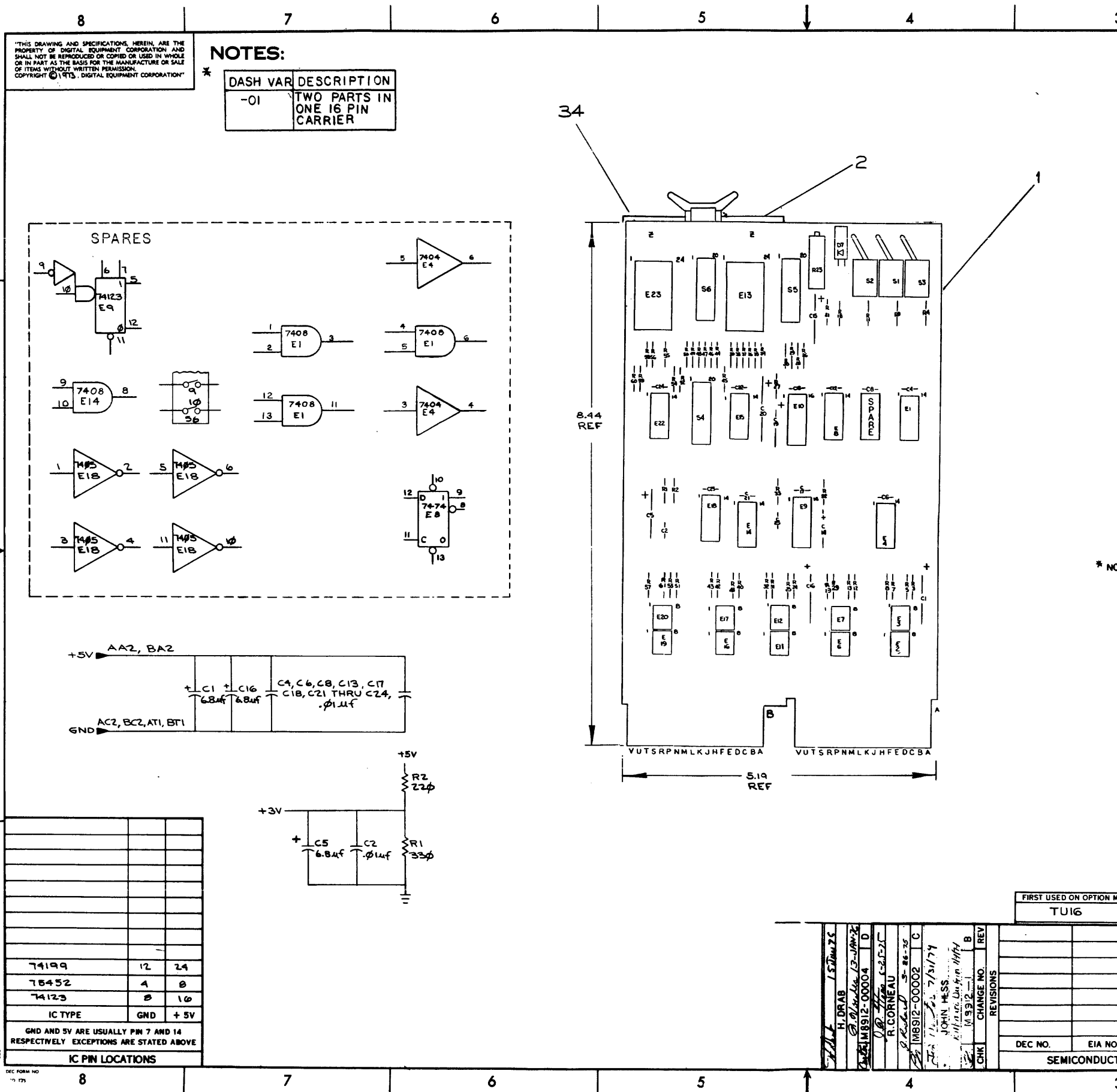
* SIGNALS ORIGINATE ON BACKPANEL
 ** SEE PARTS LIST FOR CORRECT ROM PART NUMBER

REVISIONS		
CHK	CHANGE NO.	REV.

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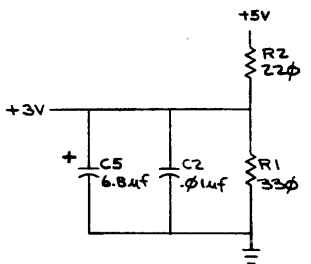
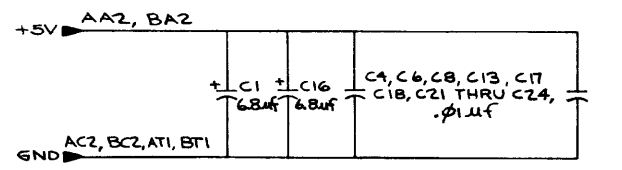
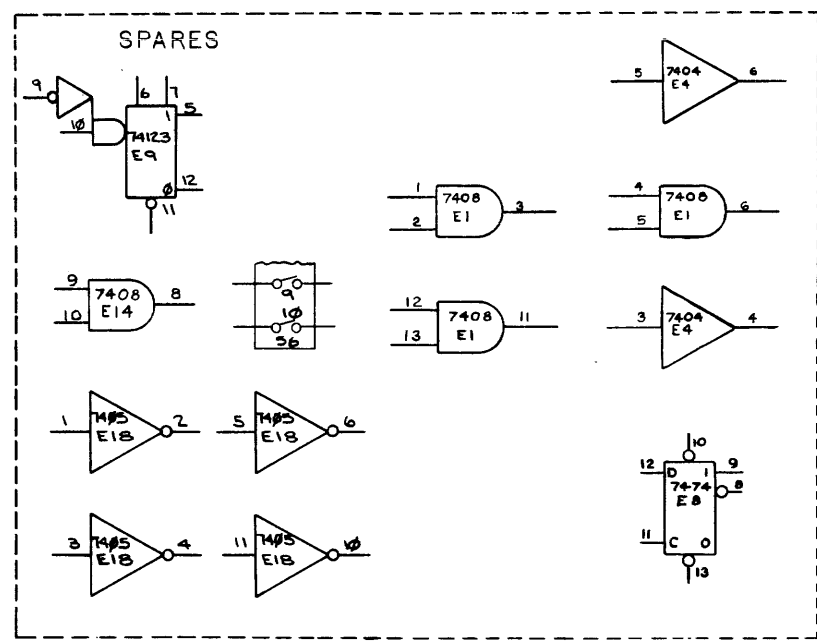
REVISIONS		
CHK	CHANGE NO	REV



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NOTES:

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



IC TYPE	GND	+5V
74199	12	24
75452	4	8
74123	8	16

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

IC PIN LOCATIONS

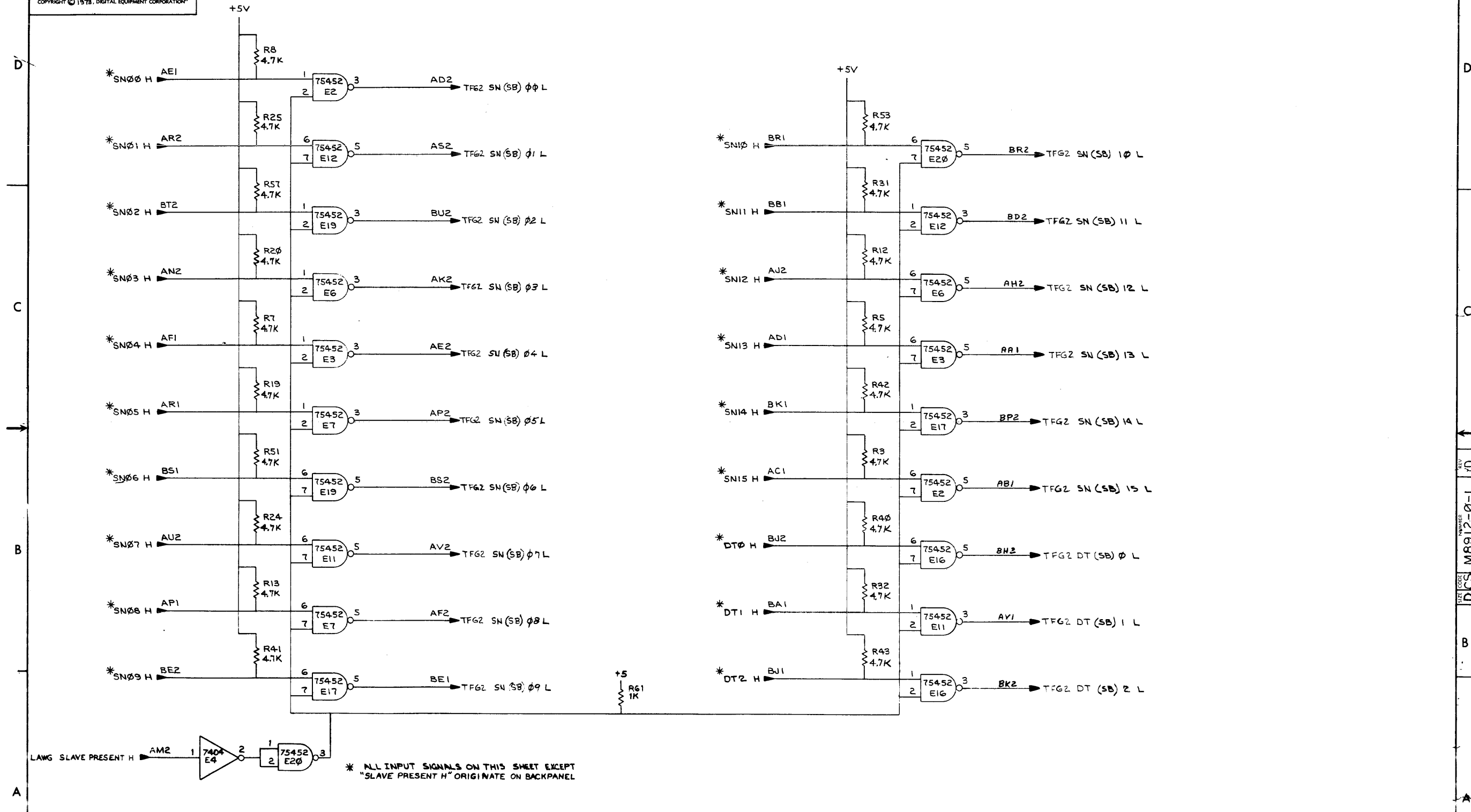
REF	DESCRIPTION	PART NO.	ITEM NO.	
REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8912-0-4	E _F	
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8912-0-5	E _F	
REF	MODULE ECO HISTORY	B-MH-M8912-0-6	E _F	
1	ETCHED CIRCUIT BOARD	5010674	1	
1	HANDLE, FLIP-CHIP, MAGENTA	900837-06	2	
			3	
1	C25	CAP 470 PF 100V 5% D.M.	4	
2	C19, C19	CAP 3.9µF 100V 10% TANT	5	
11	C2, C4, C17, C18, C21-24, C6, C8, C13	CAP .01µF 100V 20% DISC	6	
1	C15	CAP 10µF 20V 10% TANT	7	
1	C20	CAP 100µF 20V 10% TANT	8	
3	C1, C5, C16	CAP 6.8µF 35V 10% TANT	9	
			10	
1	D7	DIODE, LIGHT EMITTING	11	
1	R33	RES 15Ω 1/4W 5%	12	
1	R2	RES 22Ω 1/4W 5%	13	
1	R1	RES 33Ω 1/4W 5%	14	
5	R4, R9, R11, R40, R61	RES 1K 1/4W 5%	15	
43	R3, R5, R7, R8, R12, R13, R19 THRU R21, R24, R25, R26, R28 THRU R32, R34 THRU R39, R41 THRU R60	RES 4.7K 1/4W 5%	16	
1	R22	RES 10K 1/4W 5%	17	
1	R27	RES 15K 1/4W 5%	18	
1	R18	RES 27Ω 1/4W 5%	19	
1	R23	RES 50K 3/4W 10% 76 PR	20	
			21	
			22	
			23	
1	E4	IC 7404	1909686	24
2	E15, E22	IC 74197	1910035	25
2	E1, E14	IC 7408	1910155	26
2	E9, E10	IC 74123	1910436	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	1810209-00	32
3	S4, S5, S6	SWITCH, DIP OF 10	1211164-06	33
2		EYELET	9006732	34

* NOTE

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.											
TUIG															
ETCH BOARD REV D															
PARTS LIST															
<table border="0"> <tr> <td>DRN</td> <td>DATE</td> <td rowspan="5"> </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>PROD.</td> <td>DATE</td> </tr> </table>					DRN	DATE		CHKD	DATE	ENG	DATE	PROJ. ENG.	DATE	PROD.	DATE
DRN	DATE														
CHKD	DATE														
ENG	DATE														
PROJ. ENG.	DATE														
PROD.	DATE														
TITLE			REV.												
SLAVE TEST (TFGI)			D												
FUNCTION GENERATOR			D												
SIZE CODE			NUMBER												
D			DCS M8912-0-1												
SCALE			REV.												
1 OF 3			D												
SEMICONDUCTOR CONVERSION CHART															
SHEET 1 OF 3															

REV	CHANGE NO.	DESCRIPTION
A	1	INITIAL
B	2	...
C	3	...
D	4	...

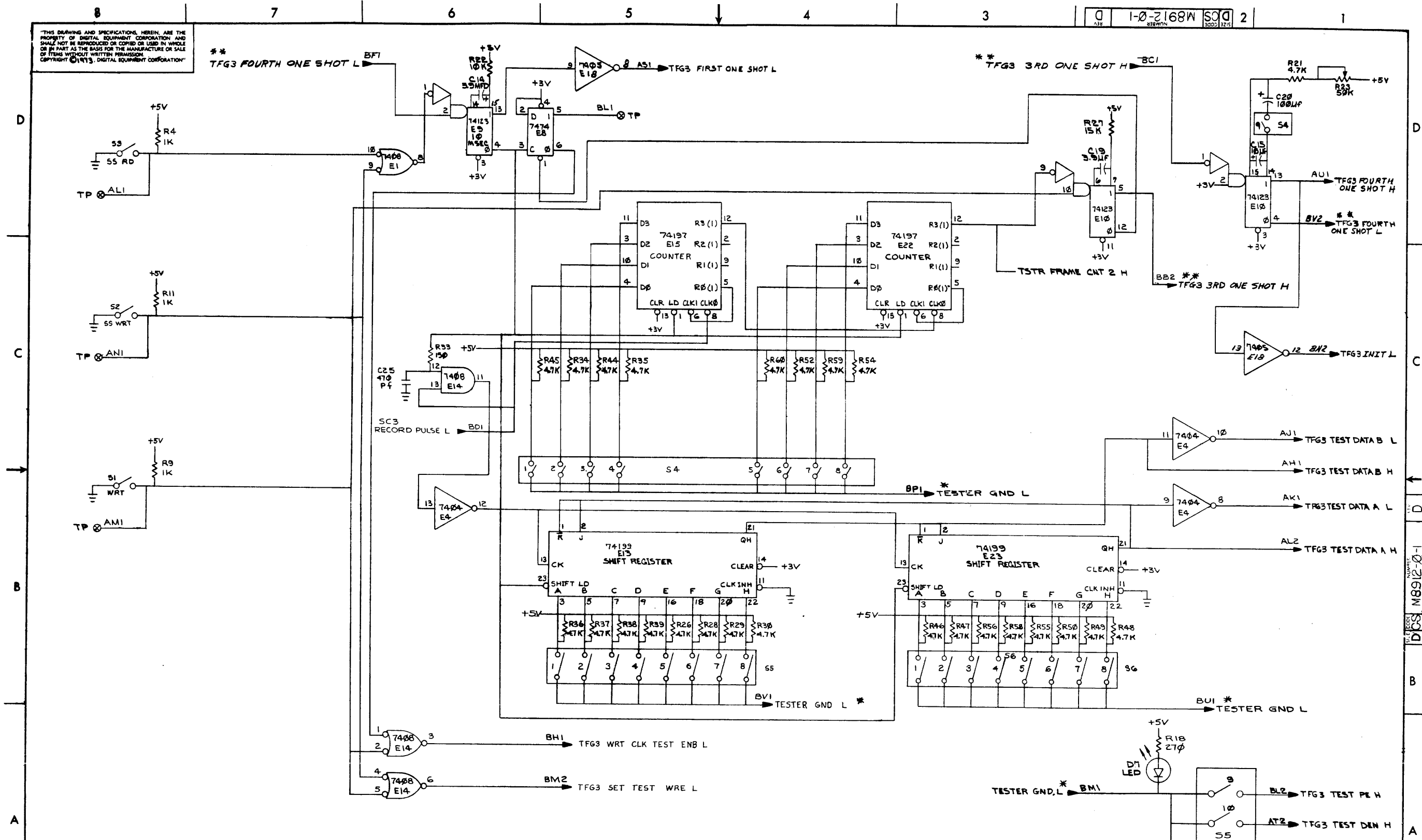
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* ALL INPUT SIGNALS ON THIS SHEET EXCEPT "SLAVE PRESENT H" ORIGINATE ON BACKPANEL

REVISIONS		
CHK	CHANGE NO	REV

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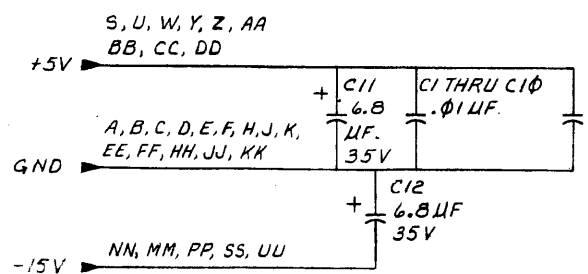
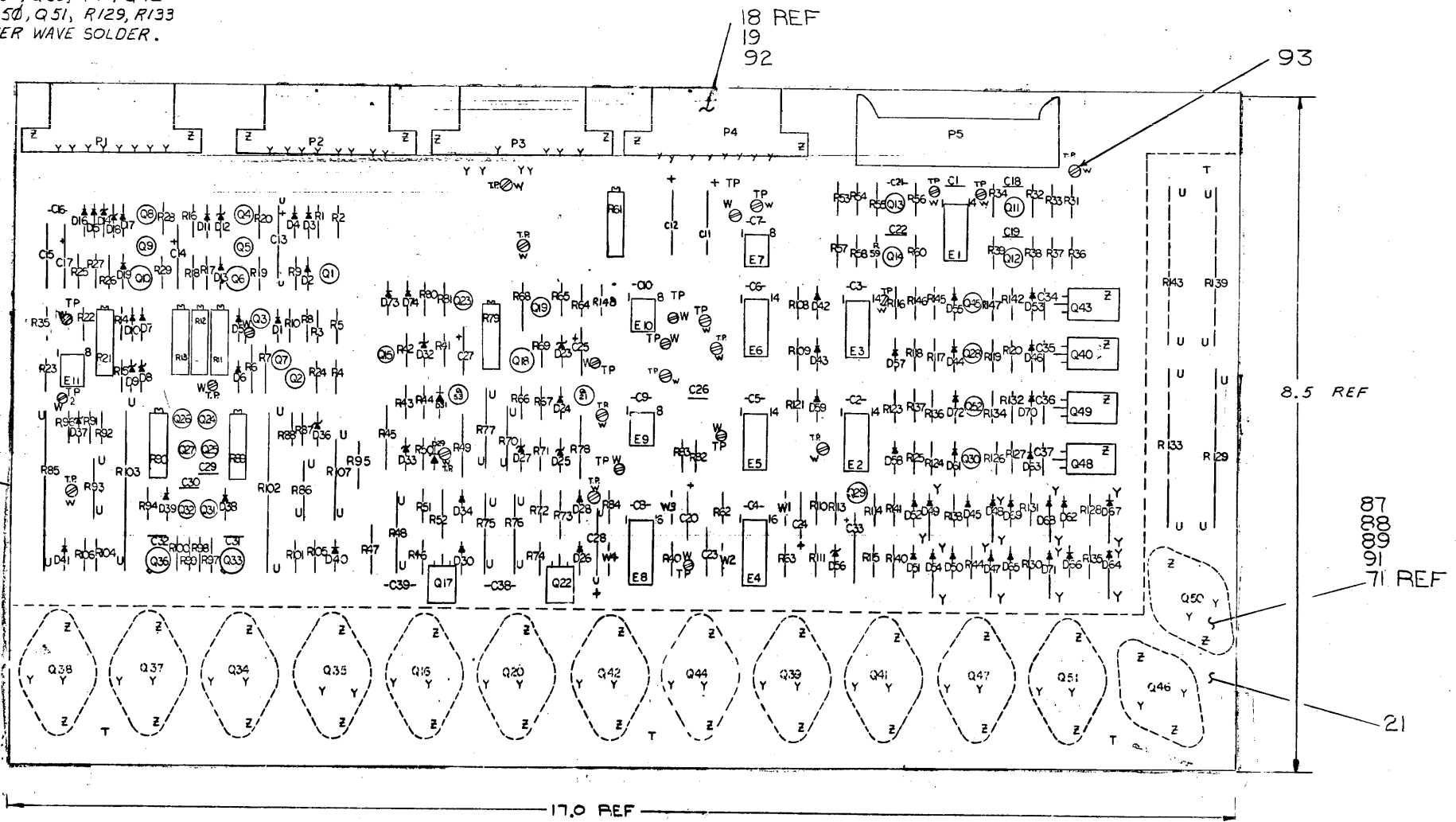


* SIGNAL ORIGINATES ON BACK PANEL
 ** SIGNALS CONNECTED BY BACK PANEL ONLY

REVISIONS		
CHK	CHANGE NO.	REV.

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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

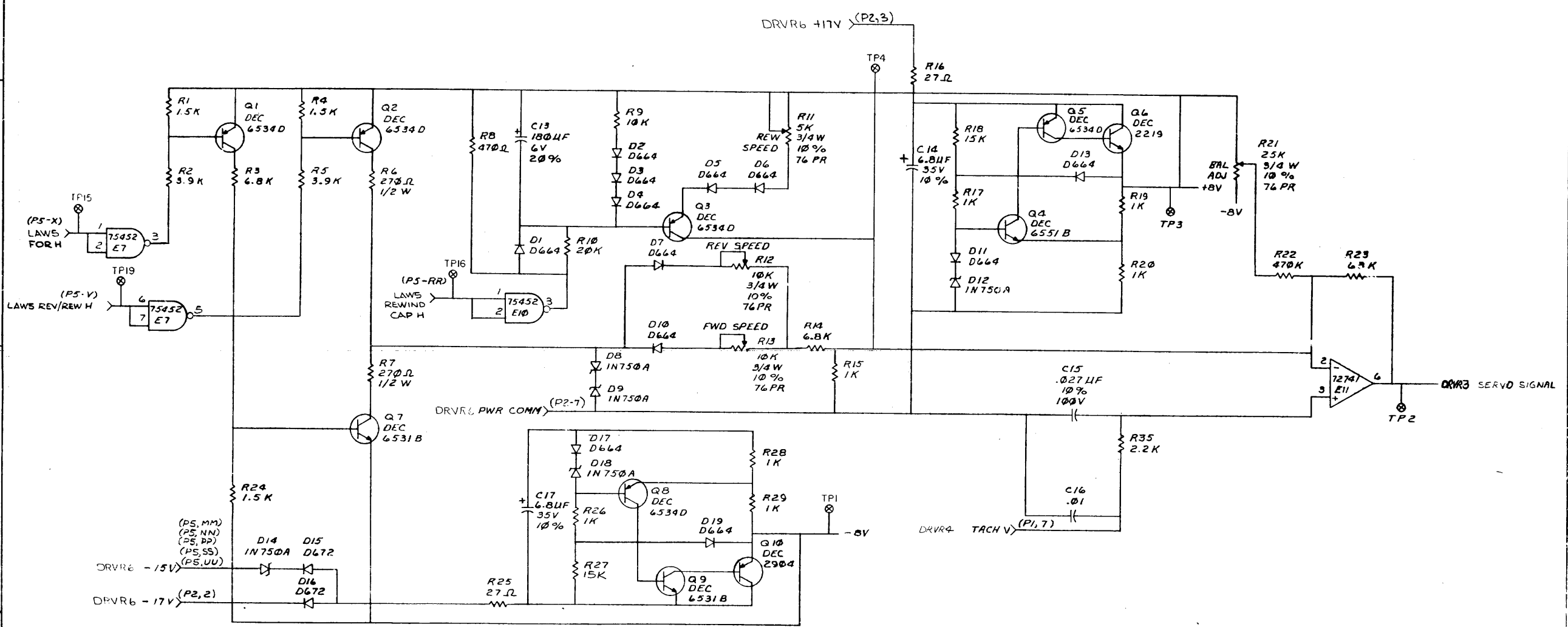
FIRST USED ON OPTION MODEL		QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
TU'S						
ETCH BOARD REV D						
PARTS LIST						
DRN	V. Aspinetta	DATE	10-17-73	digital EQUIPMENT CORPORATION		
CHKD	J. Carney	DATE	12/18/73	WATUARD, MASSACHUSETTS		
ENGR	S. H. H.	DATE	1-4-74	TITLE (DRVR)		
PRJ. ENGR	S. H. H.	DATE	1-4-74	TU16 POWER BOARD		
PRJ. ENGR	S. H. H.	DATE	1-4-74	NEXT HIGHER ASSY		
PRJ. ENGR	S. H. H.	DATE	1-4-74	SIZE CODE: NUMBER		
DEC NO.		EIA NO.	DEC NO.	EIA NO.	DIST.	
SEMICONDUCTOR CONVERSION CHART						
SCALE: SHEET 1 OF 6						

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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
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
4	C11, C12, C14, C17	CAP 6.8UF 35V 10% S. TANT	1005306	7	1	R88, R92	RES 2K $\frac{1}{2}$ W 5%	1302388	55
2	C31, C32	CAP .02UF	1000004	8	7	R32, R38, R44, R55, R59, R67, R113	RES 8.2K $\frac{1}{2}$ W 5%	1303178	56
1	C33	CAP 68UF 15V 10% S. TANT	1000082	9	1	R107	RES 8.2K $\frac{1}{2}$ W 5%	1303179	57
23	D1 THRU D7, D10, D11, D13, D17, D19, D38, D39, D42, D43, D44, D55, D57, D58, D59, D61, D72	DIODE D684	1100114	10	1	R129, R133, R139, R143	RES 120 2W 5%	1305282	58
2	D23, D32	DIODE IN 748A ZENER	1100122	11	2	R102, R103	RES 56 10W 1%	1305396	59
7	D8, D9, D12, D14, D18, D36, D37	DIODE IN 750A ZENER	1100124	12	1	R76, R48	RES 12 10W 5%	1305400	60
8	D40, D41, D46, D53, D63, D70, D73, 74	DIODE IN 4004	1105796	13	1	R79	RES 27 2W 10%	1305624	61
2	D27, D33	DIODE IN 4736A ZENER	1103340	14	2	R89, R90	POT 100 $\frac{1}{2}$ W 10% 76PR	1309108	62
3	D25, D29, D56	DIODE IN 756A ZENER	1103441	15	1	R11	POT 1K $\frac{1}{2}$ W 10% 76PR	1309143-04	63
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 5K $\frac{1}{2}$ W 10% 76PR	1309143-07	64
8	D47, D48, D49, D54, D64, D67, D68, D71	DIODE 5624	1110420	17	2	R21, R61	POT 10K $\frac{1}{2}$ W 10% 76PR	1309143-09	65
4	P1, P2, P3, P4	CONN MATE-N-LOK 8 PIN	1209340	18	2	Q10, Q33	POT 25K $\frac{1}{2}$ W 10% 76PR	1309143-10	66
32		SOCKET TERMINAL CONTACT	1209456	19	1	Q6, Q36	TRANS DEC 2904	1309143-12	67
1	P5	CONN 40P RT ANG HEADER	1209941	20	5	Q37, Q41, Q44, Q50, Q51	TRANS DEC 2219	1501742	68
1		HEAT SINK	74-11390	21	12	Q1, Q2, Q3, Q29, Q5, Q8, Q21, Q23, Q26, Q27, Q32, Q53	TRANS DEC 2904A	1501881	69
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 2904A	1501913	70
1	R47	RES 56 $\frac{1}{2}$ W 5%	1300995	23	7	Q16, Q20, Q34, Q39, Q42, Q48, Q47	TRANS DEC 3715	1503088	71
2	R101, R104	RES 100 $\frac{1}{2}$ W 5%	1300229	24	2	Q17, Q22	TRANS DEC 65340	1503409	72
3	R50, R71, R83	RES 220 $\frac{1}{2}$ W 5%	1300271	25	2	Q17, Q22	TRANS DEC 65318	1509338	73
2	R45, R70	RES 220 1W 10%	1300277	26	1	Q35	TRANS DEC 3791	1509581	74
2	R7, R6	RES 270 $\frac{1}{2}$ W 5%	1300285	27	1	Q38	TRANS DEC 4823	1509804	75
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 DEC 4502	1510334	76
2	R86, R93	RES 330 1W 5%	1300297	29	1	E5	TRANS DEC 802	1510335	77
1	R8	RES 470 $\frac{1}{2}$ W 5%	1300316	30	1	E8	TRANS D 4%CB	1510598	78
1	R68	RES 750 $\frac{1}{2}$ W 5%	1300354	31	1	E1	IC DEC 7400	1805575	79
24	R15, R17, R19, R20, R26, R29, R29, R31, R33, R36, R37, R51, R53, R54, R57, R58, R72, R87, R91, R116, R123, R137, R146, R8	RES 1K $\frac{1}{2}$ W 5%	1300365	32	2	E2, E3	IC DEC 7410	1905578	80
14	R1, R2, R24, R42, R65, R69, R80, R81, R97, R100, R110, R111, R118, R125	RES 1.5K $\frac{1}{2}$ W 5%	1300391	33	1	E11	IC DEC 7402	1809004	81
3	R35, R41, R64	RES 2.2K $\frac{1}{2}$ W 5%	1300417	34	2	E9	IC DEC 380	1909485	82
3	R108, R109, R121	RES 3.3K $\frac{1}{2}$ W 5%	1300439	35	2	E4, E8	IC DEC 74123	1910436	85
3	R2, R5, R96	RES 3.9K $\frac{1}{2}$ W 5%	1300444	36	2	E7, E10	IC DEC 75452	1910645	86
2	R9, R115	RES 10K $\frac{1}{2}$ W 5%	1300479	37	A/R		THERMAL COMPOUND	9008268	87
5	R34, R39, R56, R60, R62	RES 12K $\frac{1}{2}$ W 5%	1300488	38	28		SCREW, BD HD 4-40X7-16 LG	9006012-4	88
2	R18, R27	RES 15K $\frac{1}{2}$ W 5%	1300486	39	32		KEPNUT 4-40	9006557	89
5	R23, R117, R124, R136, R145	RES 68K $\frac{1}{2}$ W 5%	1301327	40	8		WASHER, NYLON	9006706	90
2	R16, R25	RES 27 $\frac{1}{2}$ W 5%	1301522	41	14		WASHER, ANODIZED	9006721	91
2	R3, R14	RES 6.8K $\frac{1}{2}$ W 5%	1301423	42	8		EYELET	9006745	92
2	R49, R78	RES .82 $\frac{1}{2}$ W 10%	1301642	43	26		CAMBION TERMINAL	9007791	93
1	R95	RES .47 $\frac{1}{2}$ W 5%	1301695	44	6	C34 THRU C39	CAP .1UF 100V 20% DISC	100003C	94
1	R63	RES 22K $\frac{1}{2}$ W 5%	1301808	45	4		EYELET	9006746	95
1	R40	RES 5.6K $\frac{1}{2}$ W 5%	1301874	46	4		SCREW, BD HD 4-40 X 5-16 LG	9006010-4	96
							TUBING $\frac{1}{8}$ " 22 THIN WALL	9107256	97
							GRIPLET	1210214	98
							JUMPER, WIRE, WHITE INSULATION	9009185	99

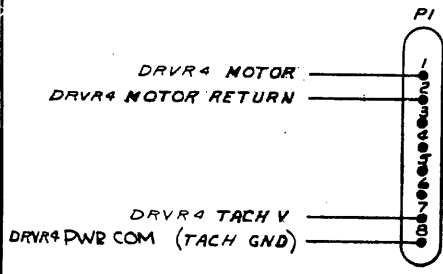
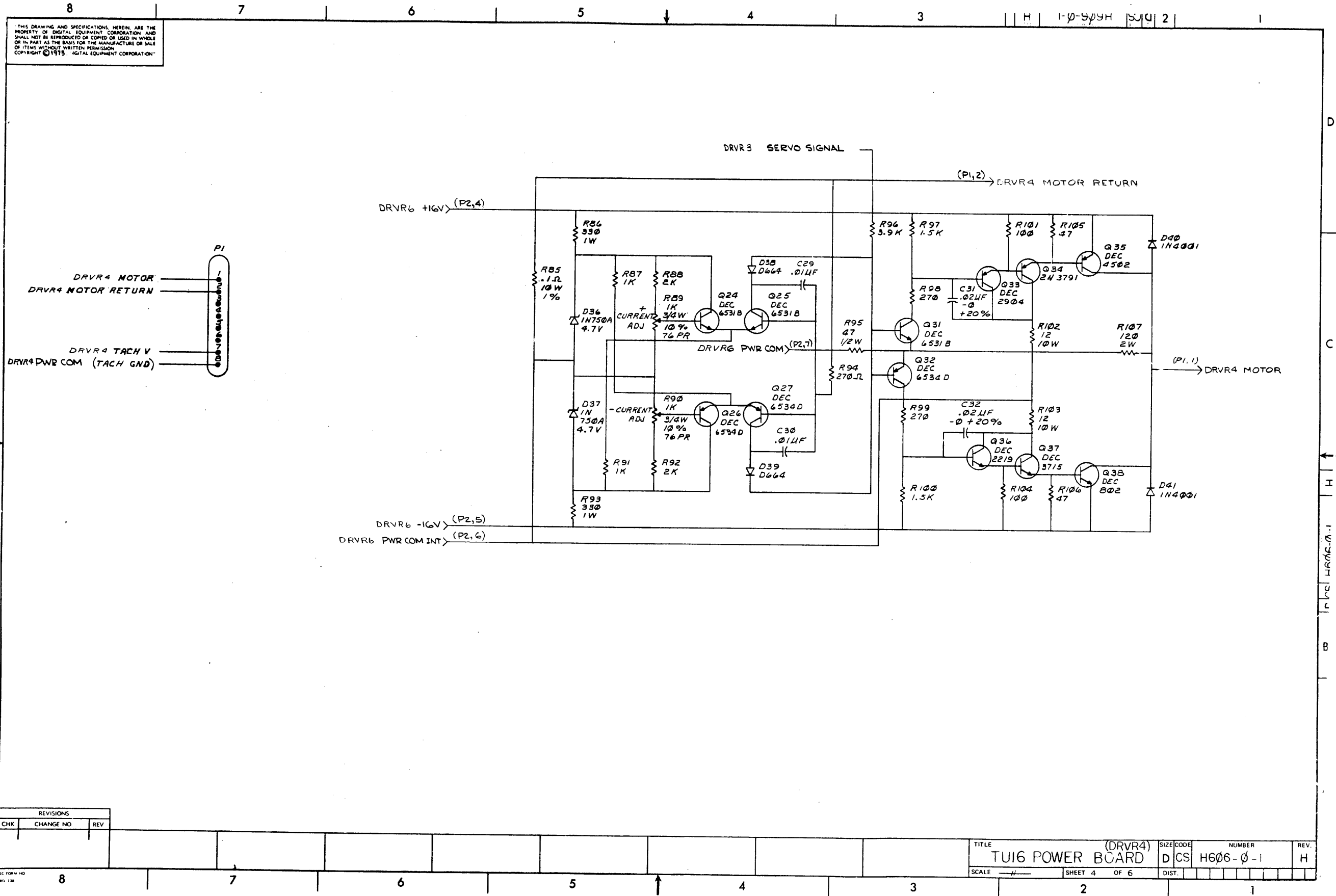
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CHK	CHANGE NO	REV

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REVISIONS		
CHK	CHANGE NO	REV

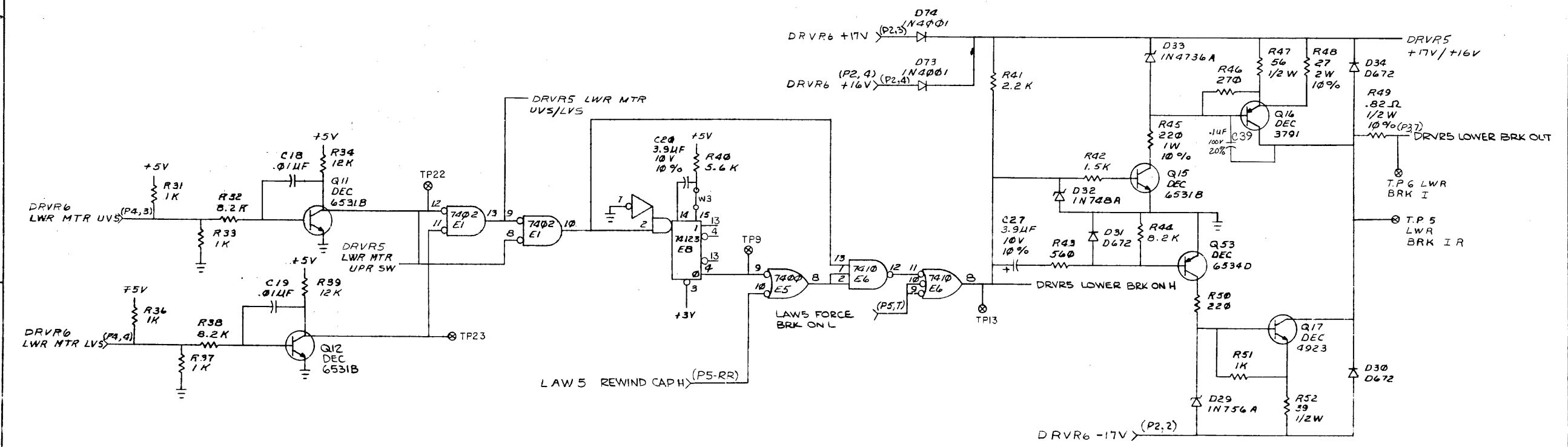
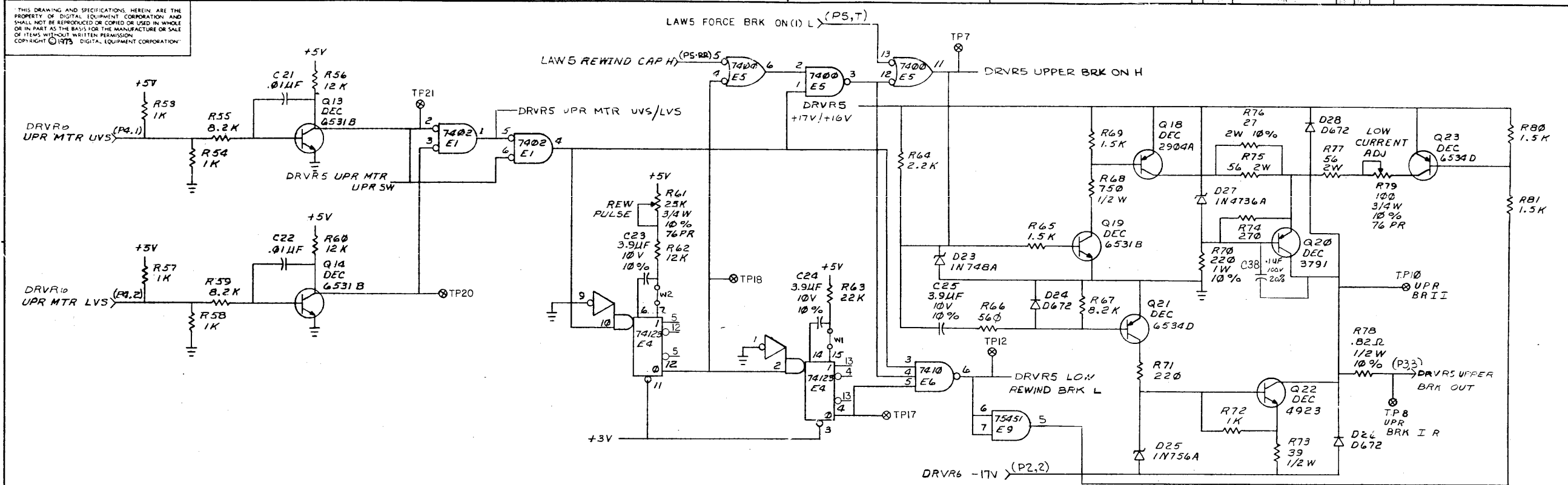
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REVISIONS		
CHK	CHANGE NO	REV

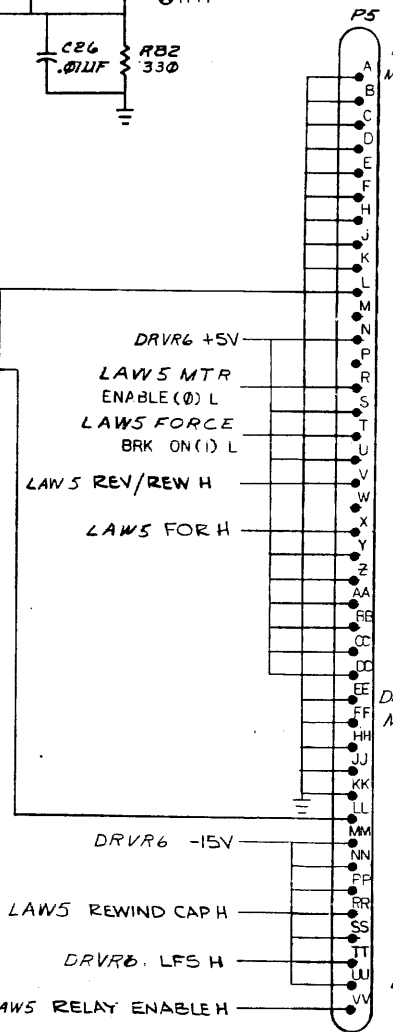
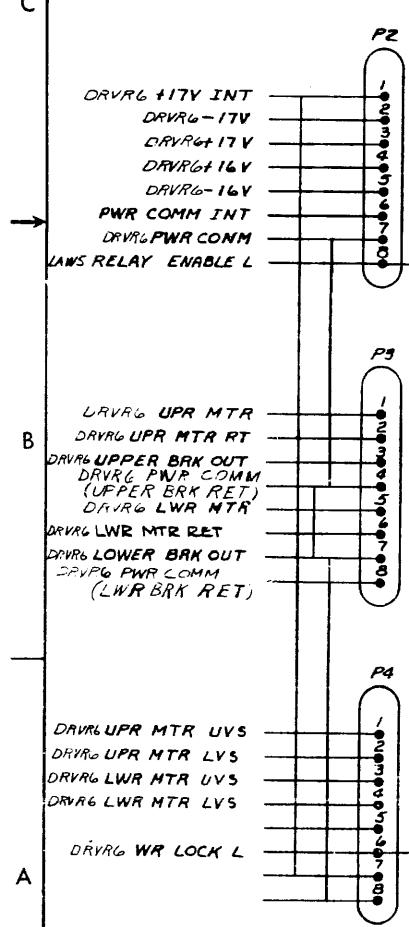
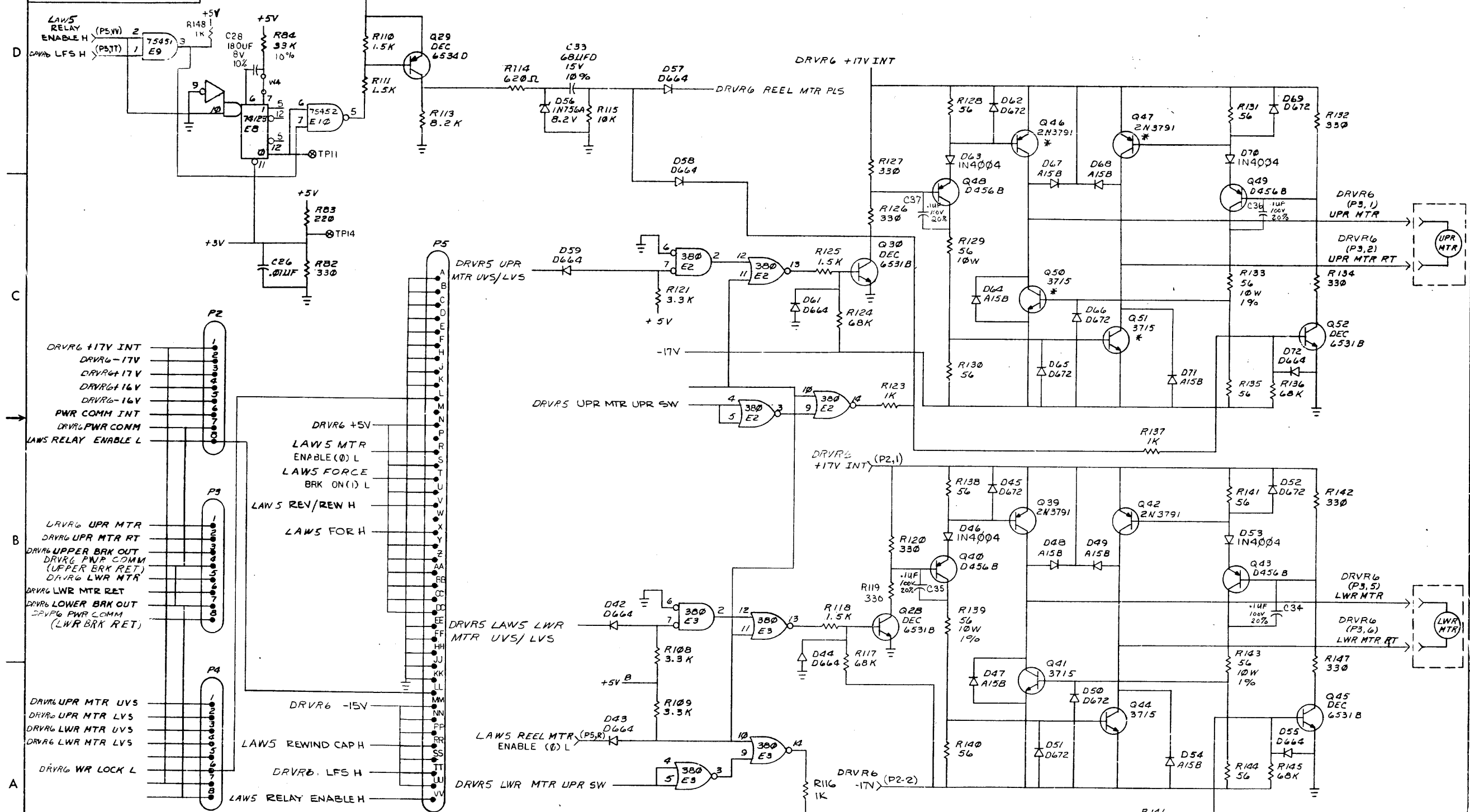
TITLE: TU16 POWER BOARD (DRVR4)
 SIZE CODE: DCS
 NUMBER: H606-0-1
 REV: H
 SCALE: -#- SHEET 4 OF 6 DIST.

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REVISIONS		
CHK	CHANGE NO.	REV

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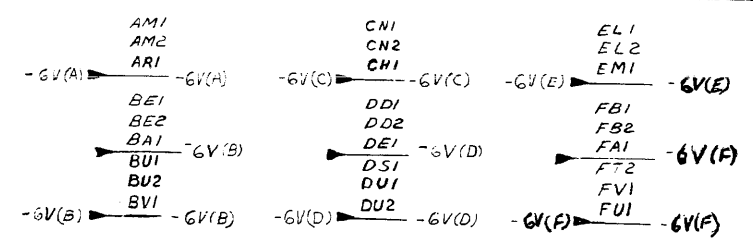
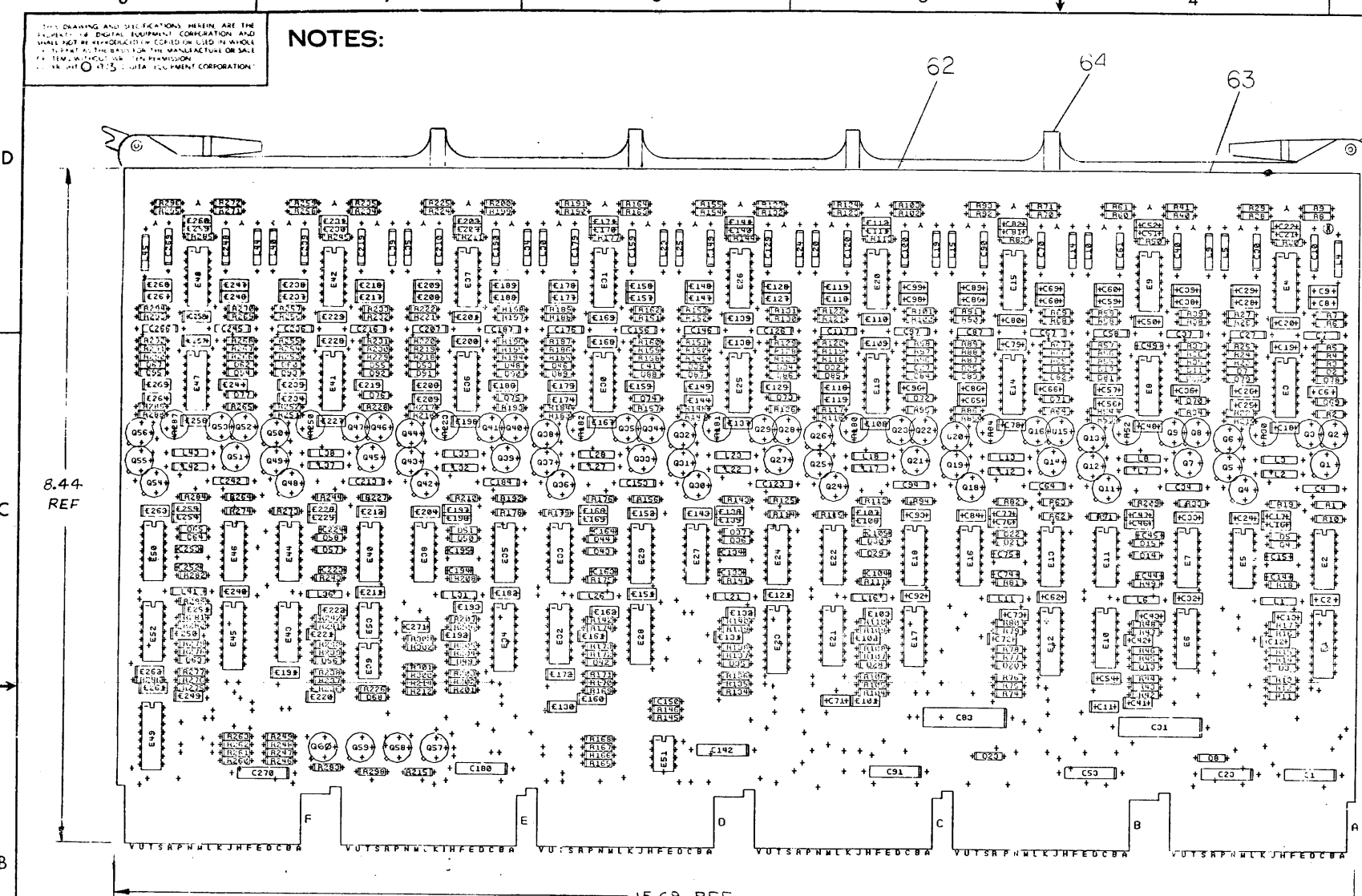


REVISIONS		
CHK	CHANGE NO	REV

TITLE		(DRVR6)		SIZE CODE	NUMB	REV.
TU16 POWER BOARD		D	CS	H606-0-1		H
SCALE	SHEET	OF	DIST			
	6	6				

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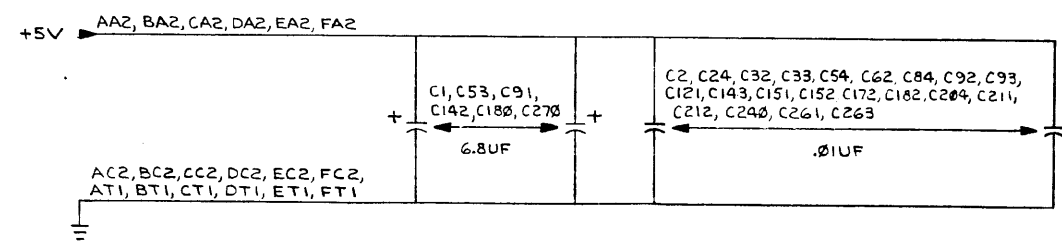
NOTES:



TRACK NUMBER	BINARY REFERENCE
1	RD2
2	RD0
3	RD4
4	RD5
5	RD6
6	RD7
7	RD1
8	RD3

	WRE	H	PESL	Y3	Y2	Y1	Y0
	A	B	PIN4	PIN5	PIN6	PIN7	
PE	0	0	1	1	1	0	
DE	1	0	1	1	0	1	
NRZ	0	1	1	0	1	1	
NRZ	1	1	0	1	1	1	

CH.	IN	7486	OUT	75107	IN	7476	OUT	DIGITAL	ANALOG
CH. 1	9,10 (E10) 8	AJ1	1,2	E1	14	AB1	AL1		
CH. 2	12,13 (E10) 11	AH1	6,7	E1	10	AF1	BB1		
CH. 3	9,10 (E21) 8	BN1	1,2	E12	14	BF1	BM1		
CH. 4	12,13 (E21) 11	BL1	6,7	E12	10	BK1	CM1		
CH. 5	9,10 (E32) 8	CU1	1,2	E23	14	CP1	CL1		
CH. 6	12,13 (E32) 11	CS1	6,7	E23	10	CR1	DP1		
CH. 7	9,10 (E43) 8	EH1	1,2	E34	15	DV1	DR1		
CH. 8	12,13 (E43) 11	EF1	6,7	E34	10	EE1	FP1		
CH. 9	9,10 (E52) 8	FM1	1,2	E45	14	FK1	FR1		



IC TYPE	QTY	LOCATIONS
710	1	8
7476	8	16
74155	8	16
IC TYPE	GND	+5V

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

14 Dec 74
 ARNOLD KORELITZ
 14 Dec 74
 W. SMITH
 14 Dec 74
 A. KORELITZ
 14 Dec 74
 A. KORELITZ
 14 Dec 74
 A. KORELITZ
 14 Dec 74
 A. KORELITZ
 14 Dec 74
 A. KORELITZ

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
	TU16	ETCH BOARD REV E		

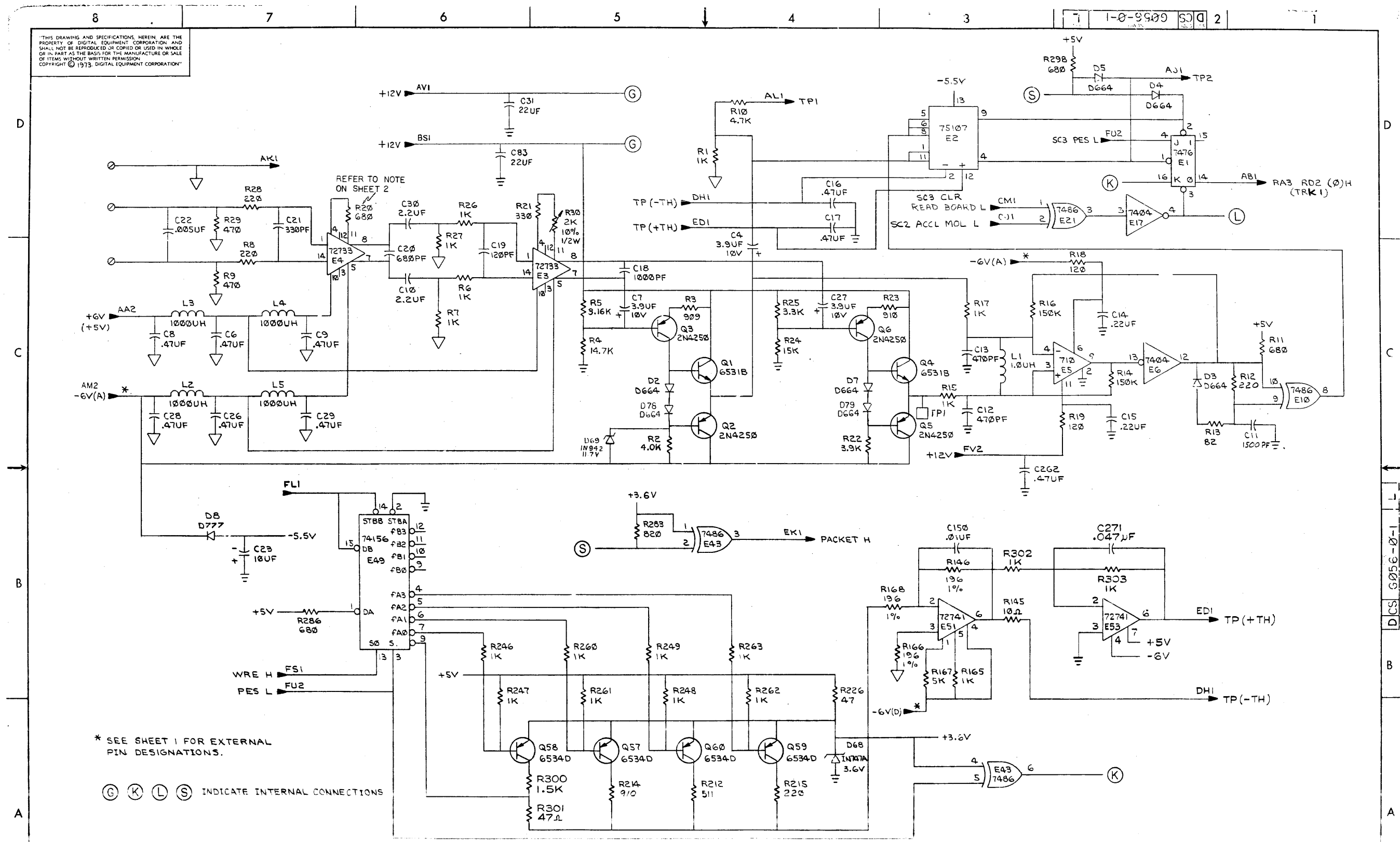
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 DATE: 2-17-76
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 DATE: 2-17-76
 PROJ ENG: [Signature]
 DATE: 2-17-76
 ENCOD: [Signature]
 DATE: 2-17-76

TITLE: (RA1)
 READ AMP

SIZE CODE: DCS
 NUMBER: 6056-0-1
 REV: L

SEMICONDUCTOR CONVERSION CHART
 SCALE: 1 OF 7
 SHEET: 1 OF 7

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* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

ⓐ ⓑ ⓓ ⓔ INDICATE INTERNAL CONNECTIONS

REVISIONS		
CHK	CHANGE NO	REV

TITLE	READ AMP (RA3)	SCALE	1:1	SHEET	3	OF	7	DIS	
DATE	1-0-9909	DESIGNER		CHECKED		APPROVED			

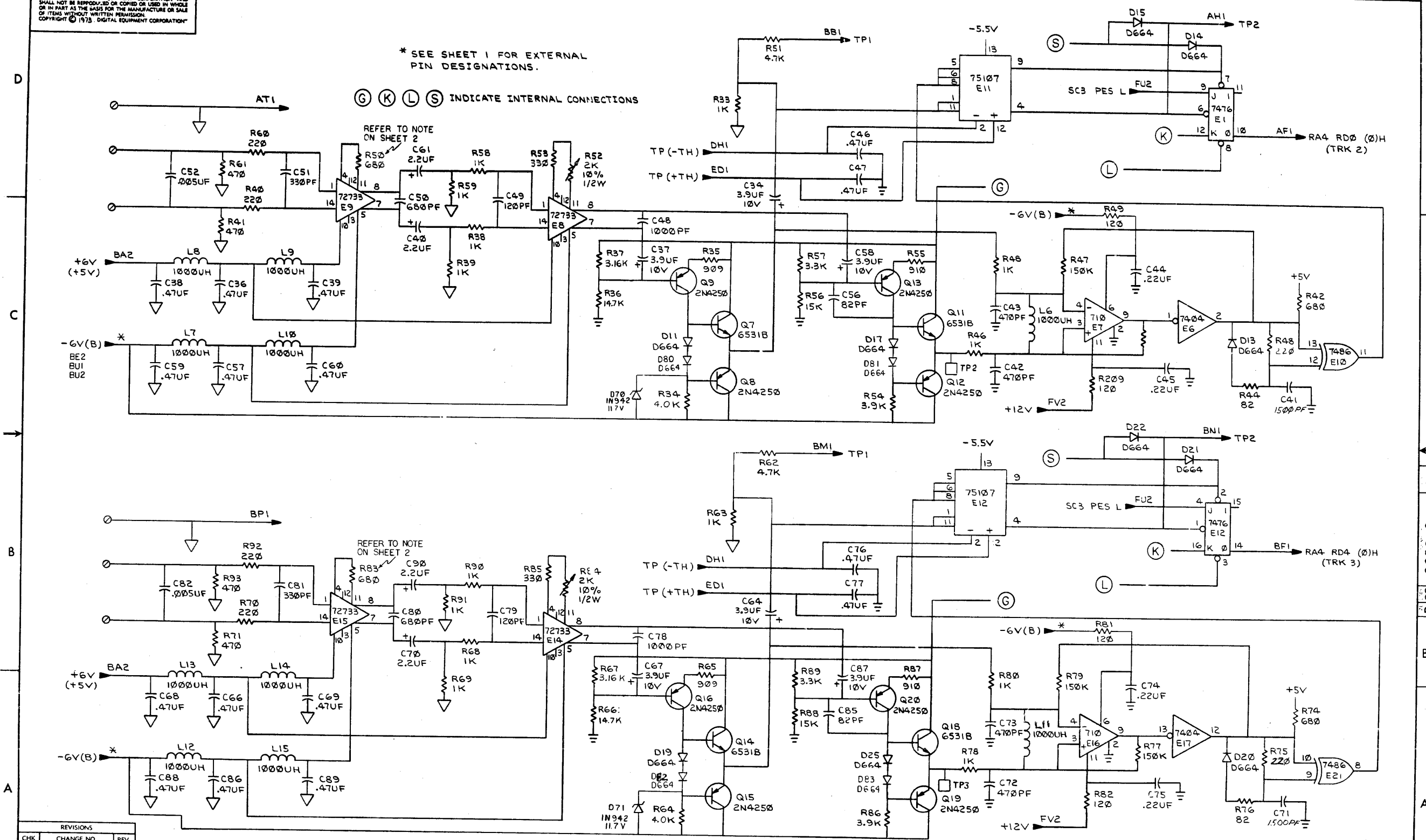
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1-0-9509 SC 2

* 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	SIZE CODE	NUMBER	REV.
READ AMP (RA4)	D CS	G056-0-1	L
SCALE	SHEET 4	OF 7	DIST.

DEC FORM NO. 080 138

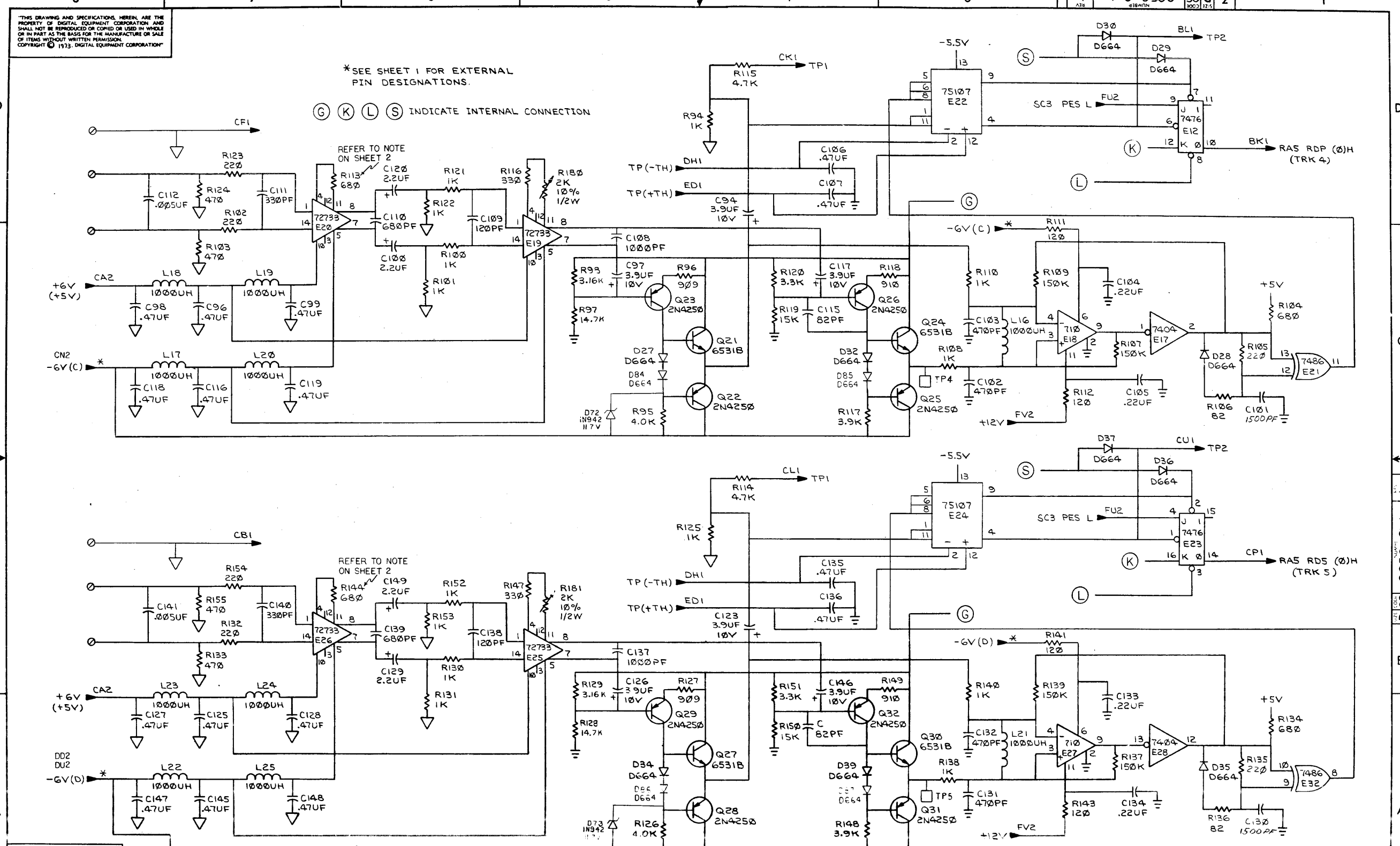
DCS G056-0-1-L

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*SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

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

REFER TO NOTE ON SHEET 2



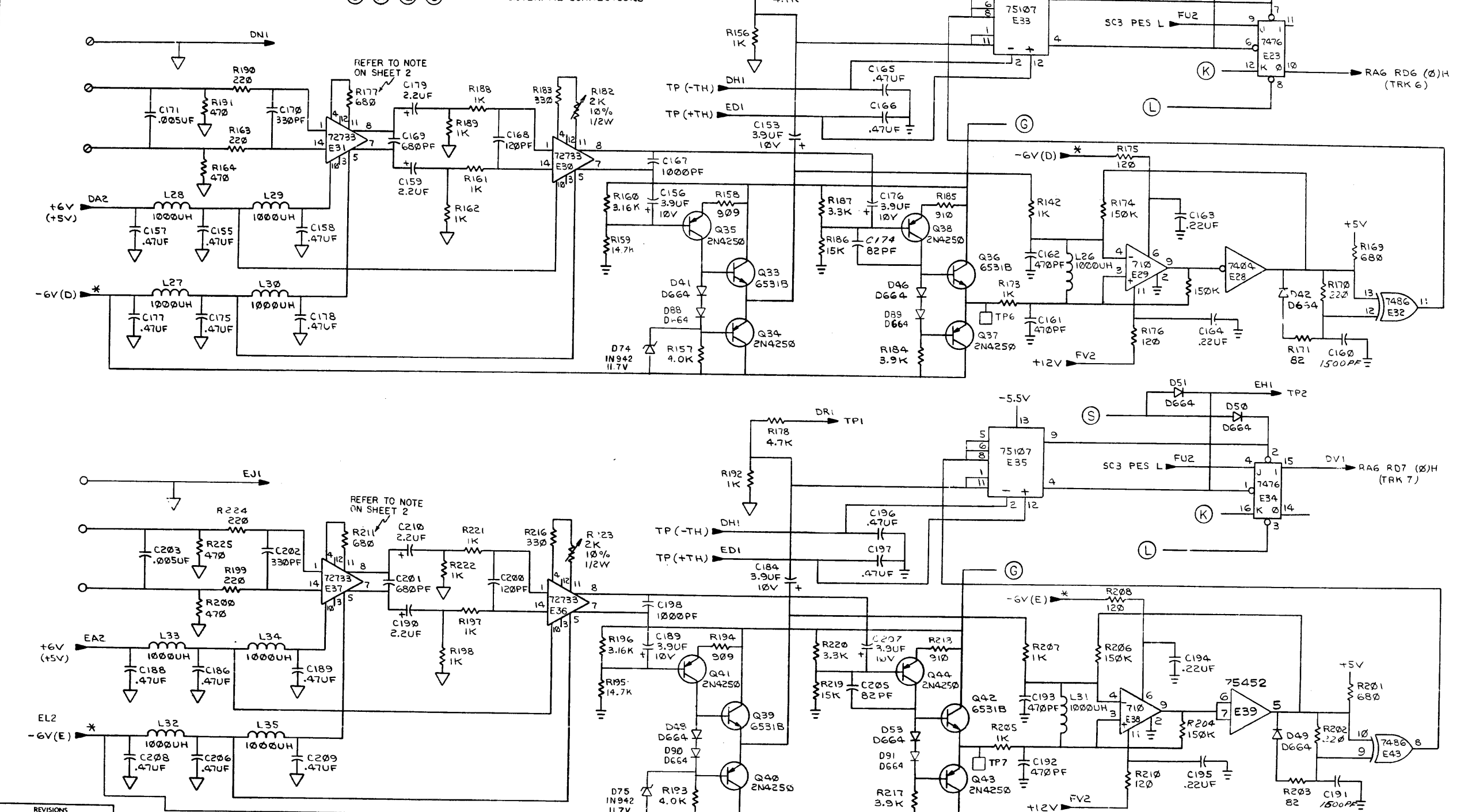
REVISIONS		
CHK	CHANGE NO	REV

TITLE	READ AMP (RA5)	SIZE/CODE	D/CS	NUMBER	G056-0-1	PL.	L
SCALE	1" = 1"	SHEET	5	OF	7	DIST.	

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*SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

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



REVISIONS		
CHK	CHANGE NO	REV.

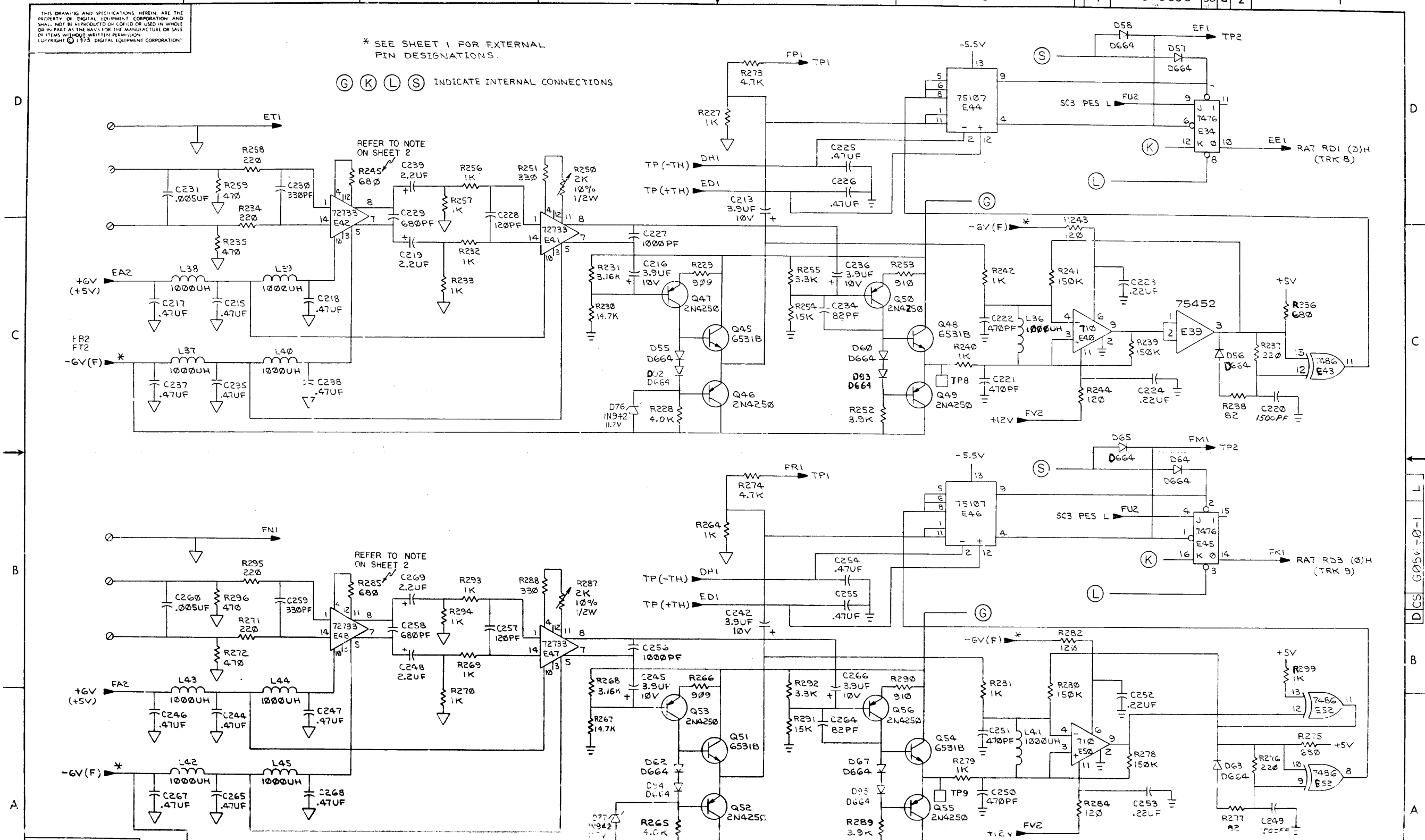
TITLE	READ AMP (RA6)	SIZE CODE	D CS	NUMBER	G056-0-1	REV.	L
SCALE		SHEET	6	OF	7	DIST.	

DCS G056-0-1

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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	

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NOTES:

- DIODES ~~D13, D18, D21, D22~~ 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
1/4"		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%	1300468	51
4	R16, R37, R26, R44	RES 1K POT	109150-03	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%	1300426	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	1005428	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	5004334	72
2	Q1, Q9	TRANSISTOR SAC-58	1009393	73
3	Q2, Q3, Q4	TRANSISTOR DEC-631B	1009398	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	F1	TRANSFORMER	1009378	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-)	5003185	85
1	F7	FUSE 4A SB	9007220	86
1	F8	FUSE 7A SLO-BLO	9007224	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	9007229	91
2	F11, F10	FUSE 3/4A	9007210	92
5	1-4, 6	TAB FASTON	9005219	93
1	5	TAB FASTON	9007113	94
1	R60	RES 560 1/4W 5%	1301630	95
1	R57	RES 5K POT	1300150-4	96
1	R59	RES 1K 1/4W 5%	1300282	97
1	R34	RES 4.5K 1/4W 5%	1300284	98
6		WASHER NYLON	9005707	99
2		SCREW, PAN HD #10 X 7-16	5005111	100
1		HEAT-SINK	5005111	101
1	F12	FUSE 5A (AXIAL LEAD)	1005747	102
1	D20	DIODE IN756A ZENER 2.2V 5%	1103441	103
1	F1	FUSE 5ASB, BUSS MDX5	9009791	104

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	REF	X-Y COORDINATE HOLE LOCATION	K-CO-5410451-0-4	REF
1	REF	ASSY-DRILLING HOLE LAYOUT	D-AH-5410451-0-5	REF
1	REF	MODULE ECO HISTORY	B-WH-5410451-0-6	REF
1		ETCHED CIRCUIT BOARD	5010450	1
1		EYELET	9009000	2
20		FUSE CLIP	9009513	3
2		TERMINAL	9007970	4
2		EYELET	9006746	5
3		TRANSIPAD	9007200	6
2		HEAT SINK	1210001	7
1		SPACER ROUND FIBRE	9007614	8
3		NUT, HEX #6-32	9008957	9
3		SCREW PAN HD #6-32 X 7/8	9006027-1	10
3		SCREW PAN, HD #6-32 X 5/8	9008025-1	11
4		WASHER, INSULATOR	9006721	12
AR	(SEE NOTE 4)	COMPOUND, THERMAL	9008268	13
8		KEP NUT #4-40	9006557	14
8		SCREW PAN HD #4-40 X 1/2	9006013-1	15
AR		WIRE, STRANDED 18 AWG	9107366	16
1		BRACKET	D-1A-7411387-0-0	17
1		HEAT SINK	C-1A-7411389-0-0	18
1		HEAT SINK	C-1D-7411388-0-0	19
1		RELAY SOCKET	1210684	20
52		PIN, PC	1209456-1	21
3	C10, C17, C19	CAP .01UF 100V 20% DISC	1001610-1	22
1	C1	CAP .02UF 1000V 20% DUAL DISC	1010767	23
1	C3	CAP 22 UF 35V 20% TANT	1002433	24
4	C5	CAP 1UF 35V 10% TANT	1001776	25
6	C6, C8, C13, C18, C20, C22	CAP 47UF 20V 10% TANT	1004814	26
2	C7, C21	CAP 1000PF 100V 5% DM	1000042	27
1	C9	CAP .22UF 50V-20% +80% CER	1010274	28
2	C11, C15	CAP 10UF 35V 10% TANT	1001476	29
2	C12, C16	CAP 820PF 100V 5% DM	1000027	30
2	D13, D24, D19, D18, D10, D27	DIODE IN4004	1105796	31
1	D5	DIODE IN367A ZENER 18V 10%	1110068	32
5	D8, D14, D17, D21, D25	DIODE D670-1	1102162	33
1	D28	DIODE IN745A ZENER 3.3V 5%	1104880	34
2	D3, D11	DIODE NSS 3514	1110174	35
1	L14	CAP 100UF 6V 20% TANT	1000088	36
1	D16	IN469A 5.8V ZENER	1102909	37
1	D23	DIODE IN964B ZENER 13V 5%	1109988	38
1	K1, K3	RELAY	1210101	39
1	K2	RELAY	1210683	40
1	J1	CONN, 4PIN	1209350-4	41
2	J4, J5	CONN, 9 PIN	1209350-9	42
2	J2, J3	CONN, 15 PIN	1209350-15	43
1	P1	RES 100 1W 5%	1300232	44
1	R14, R28, R35, R48	RES 100 1/4W 5%	1300229	45
3	R9, R27, R36	RES 1K 1/4W 5%	1300365	46
1	R6	RES 2.2K 1/4W 5%	1300417	47
2	R29, R40	RES 470 1/4W 5%	1300516	48
2	R10, R11	RES 390 2W 5%	1301864	49
2	R12, R13	RES 1K 2W 5%	1301952	50

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
1	F12	FUSE 5A (AXIAL LEAD)	1005747	102
1	D20	DIODE IN756A ZENER 2.2V 5%	1103441	103
1	F1	FUSE 5ASB, BUSS MDX5	9009791	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		digital EQUIPMENT CORPORATION	
CHKD		DATE		TUIG POWER SUPPLY	
APP'D		DATE		TITLE	
REV		DATE		NUMBER	
NEXT HIGHER ASSY		SCALE		REV.	
SIZE		DIST.		S	

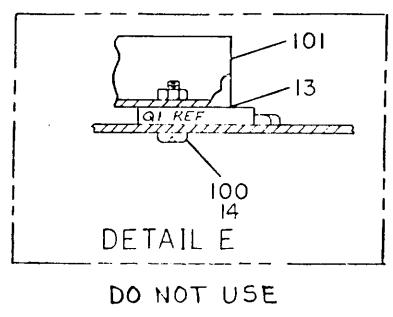
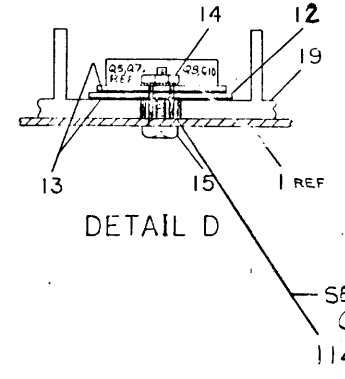
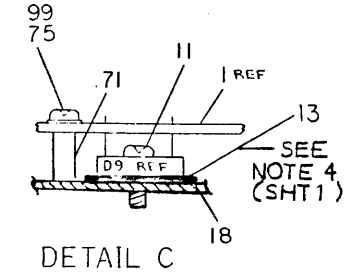
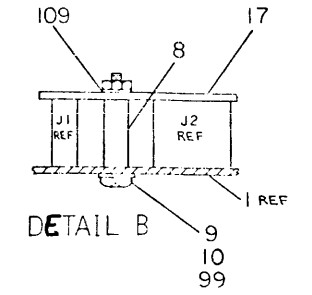
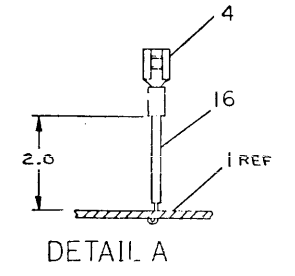
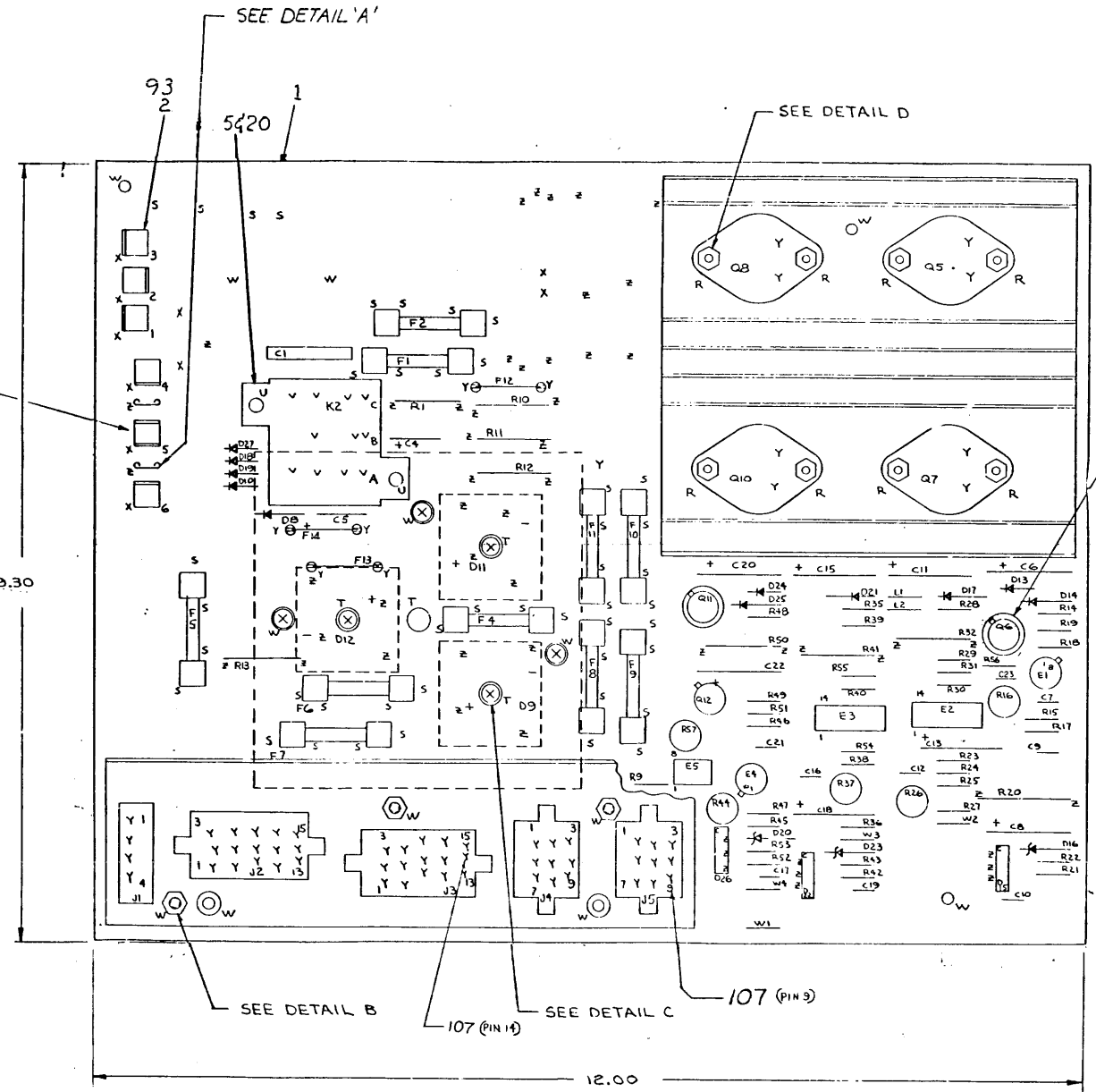
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

8 7 6 5 4 3 2 1

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D
C
B
A



REVISIONS		
CHK	CHANGE NO	REV

A

8

7

6

5

4

3

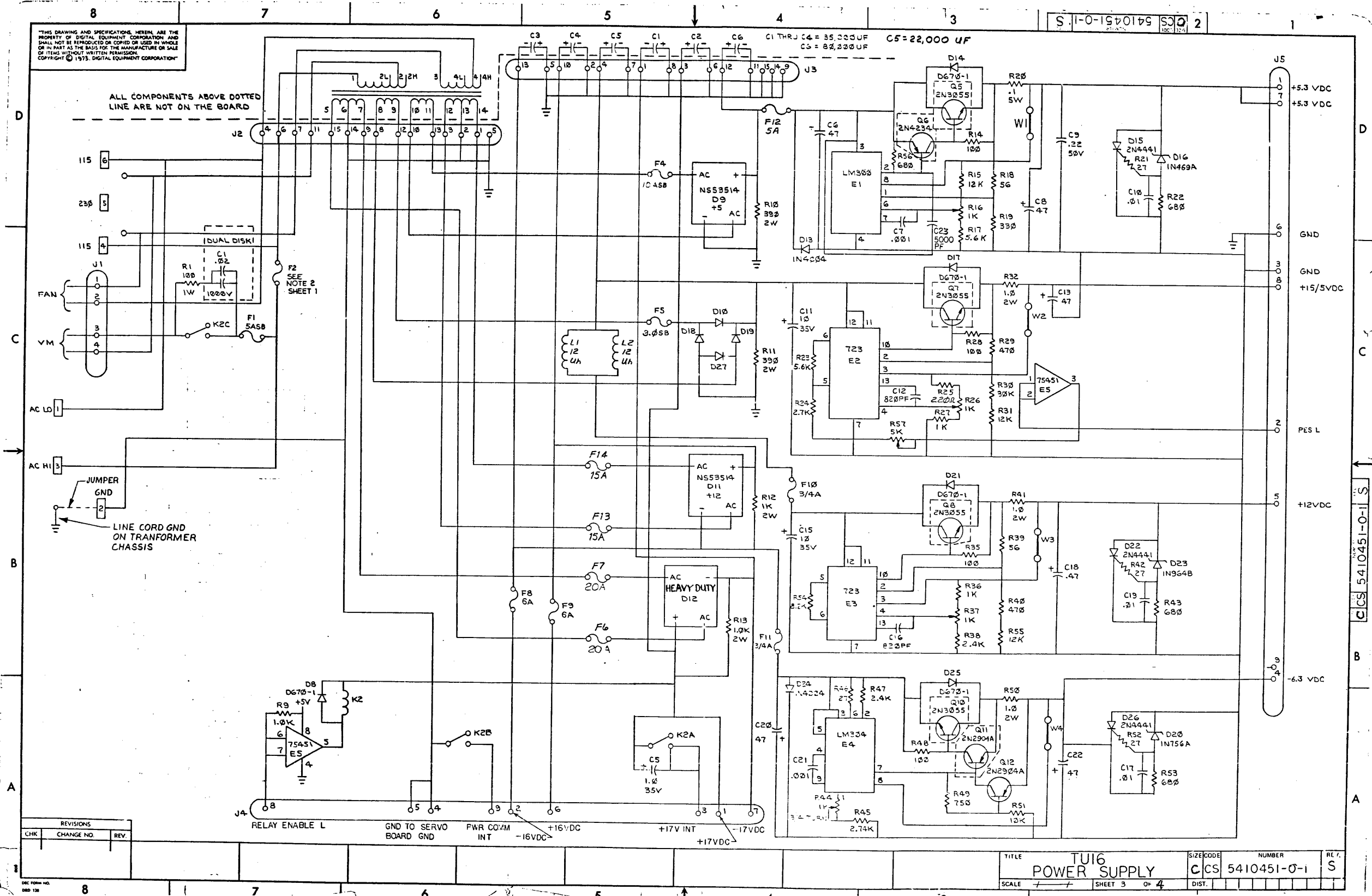
2

1

D
C
B
A

C CS 5410451-0-1

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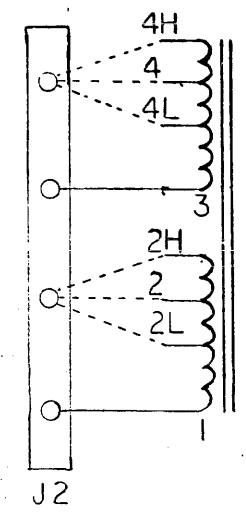


REVISIONS		
CHK	CHANGE NO.	REV.

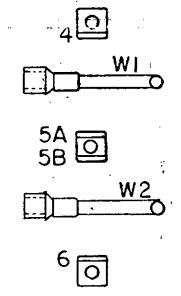
TITLE	TUI6 POWER SUPPLY	SIZE CODE	C CS	NUMBER	5410451-0-1	REV.	S
SCALE	+	SHEET	3	OF	4	DIST.	

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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



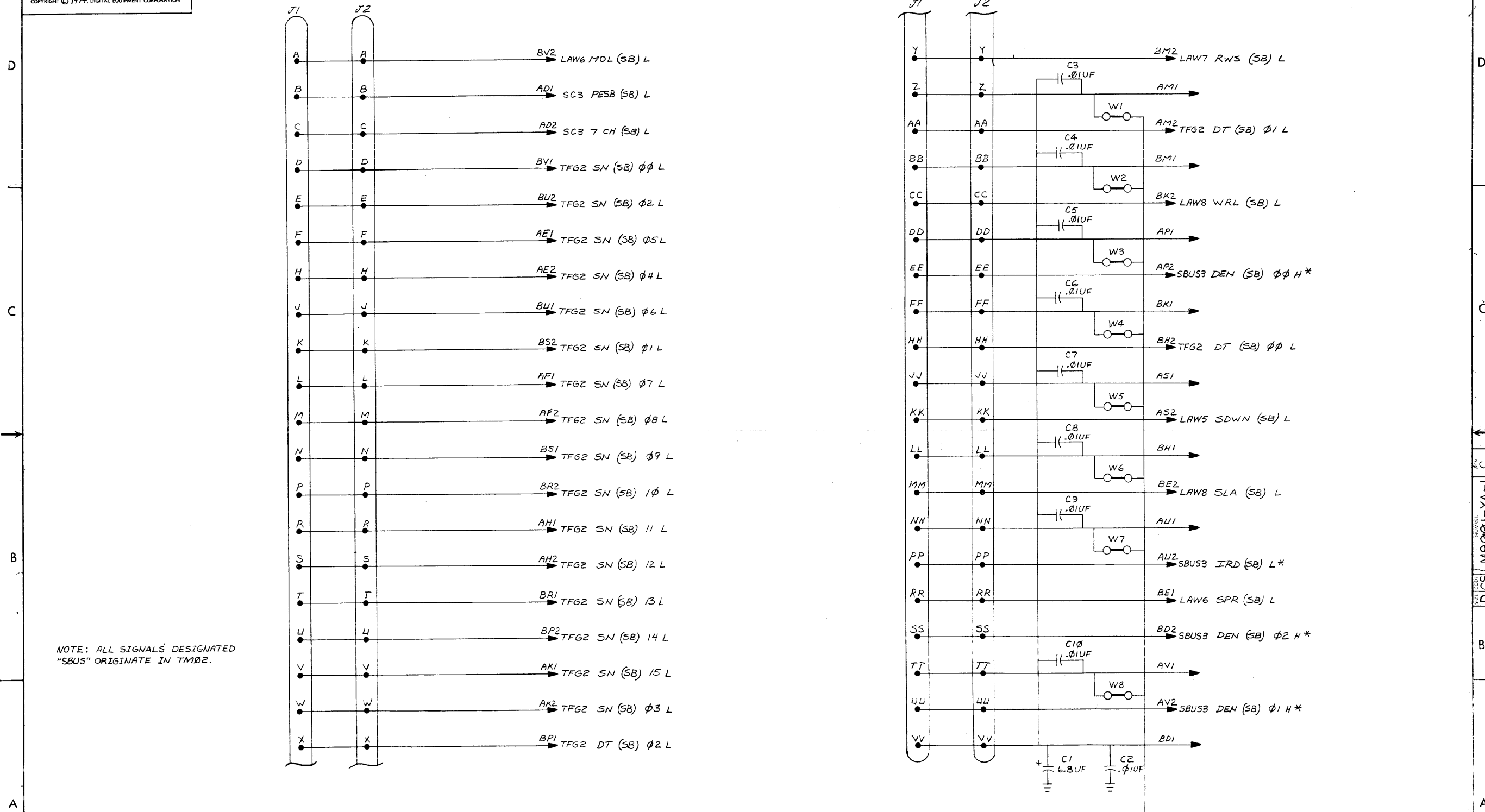
REV.	CHANGE NO.
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN. H. DANALJIAN	DATE 11-9-73	digital
DIMENSIONS ARE $\frac{\text{MILLIMETERS}}{\text{INCHES}}$ UNLESS OTHERWISE SPECIFIED		CHK'D. F. CARBERRY	DATE 1-14-74	
MILLIMETERS	INCHES	ANGLES	ENG. A. KORELITZ	DATE 1-14-74
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 TU16 POWER SUPPLY	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		
MATERIAL		SIZE CODE	NUMBER	REV.
FINISH		C:CS	5410451-0-1	5
SCALE		SHEET 4 OF 4		
DIST.				

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

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DCS M9001-YA-1



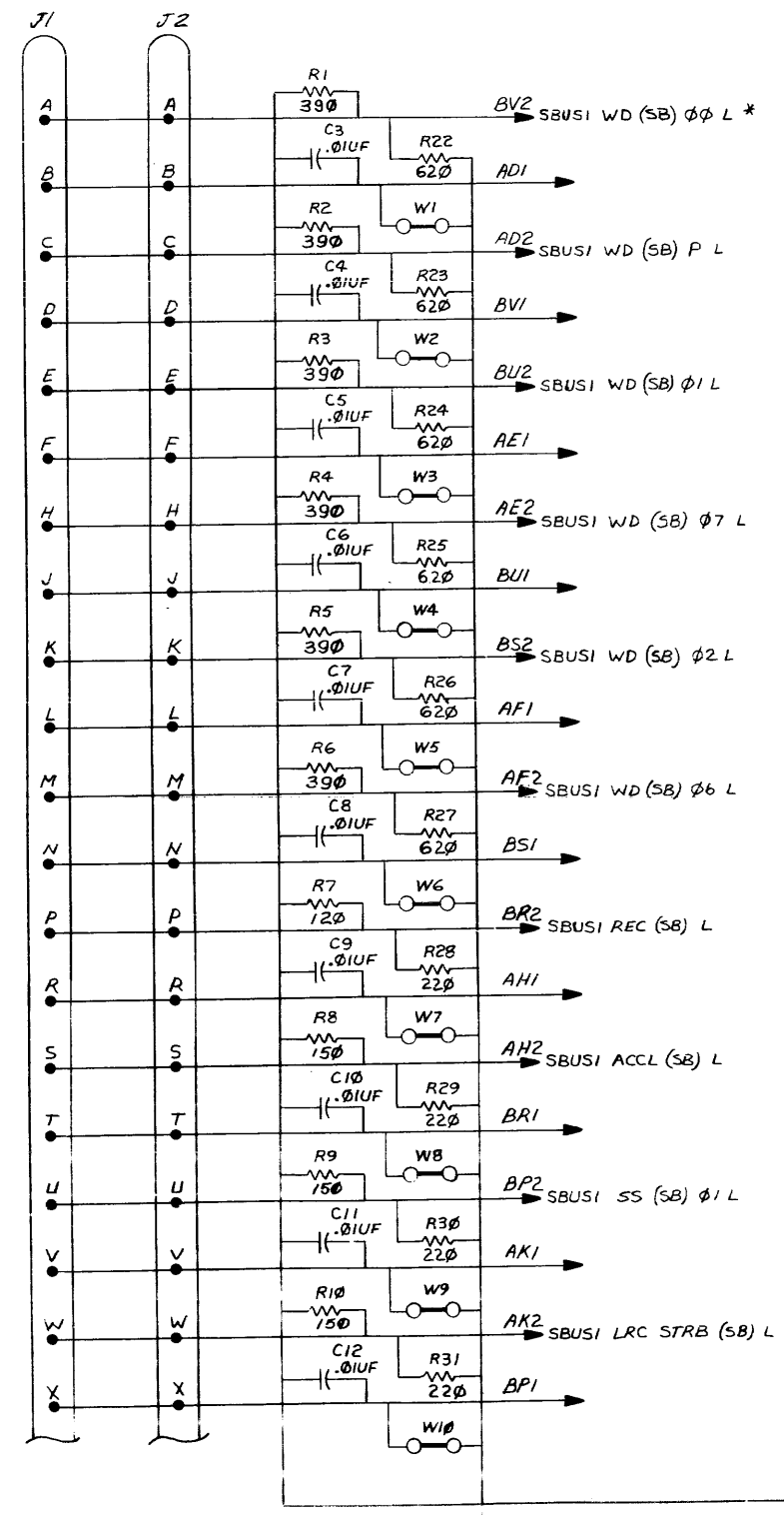
NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO.	REV.

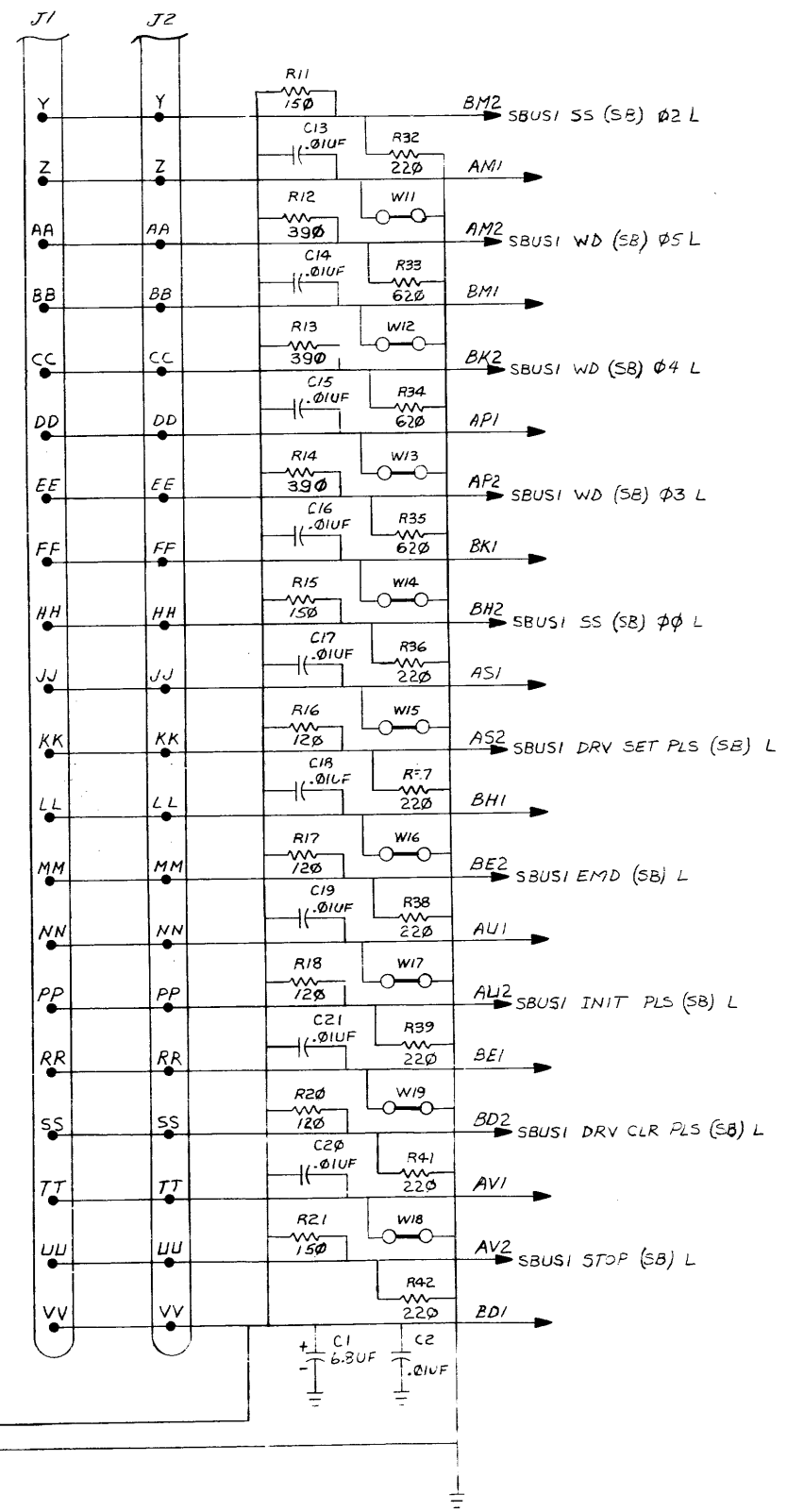
TITLE GEN PURPOSE CARD (E & F) SIZE CODE DCS NUMBER M9001-YA-1 REVISION C

DCS M9001-YA-1

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* NOTE: ALL SIGNALS ORIGINATE IN TM02

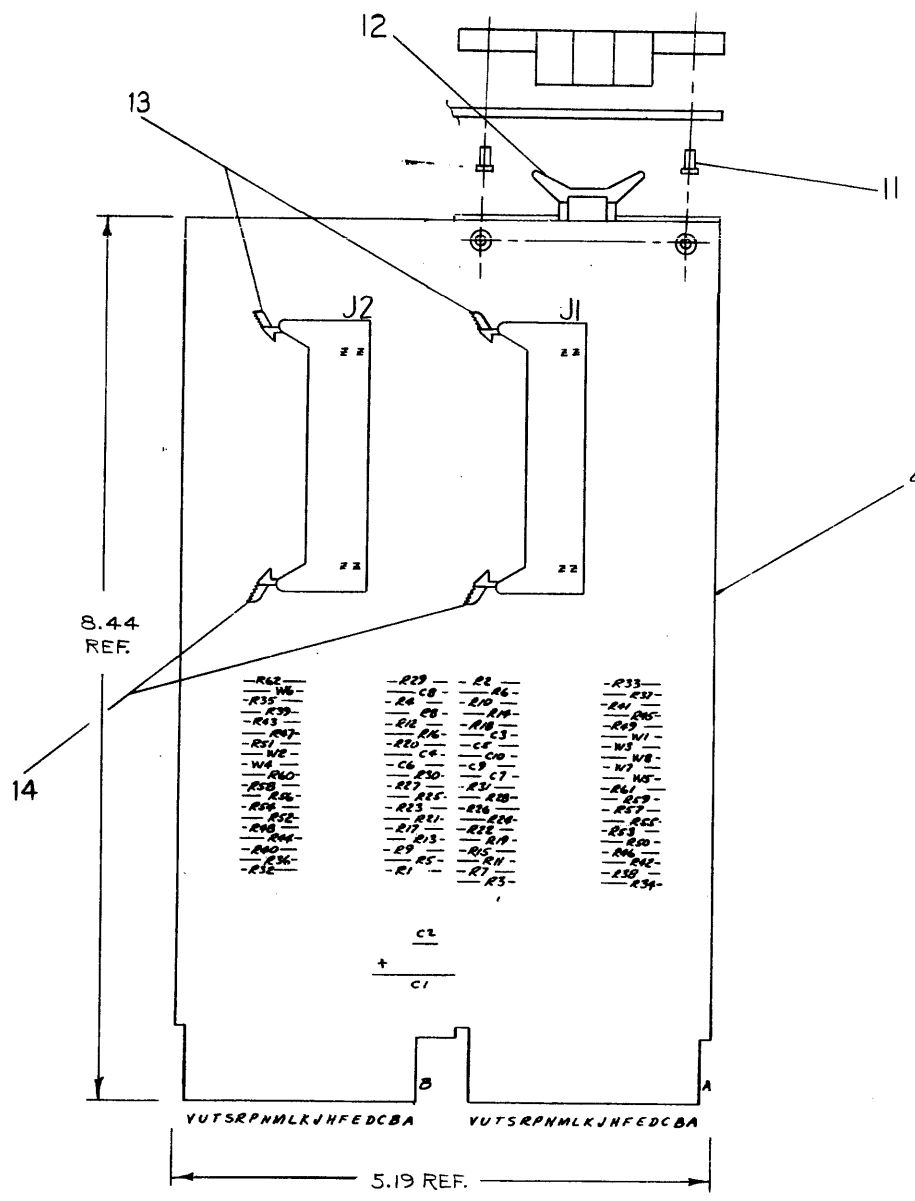


REVISIONS		
CHK	CHANGE NO	REV

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

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NOTES:



REF	X-Y COORDINATE HOLE LOCATION	K-CO-M9001-0-4	1	
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M9001-YC-5	2	
REF	MODULE ECO HISTORY	E-MH-M9001-YC-6	3	
1	ETCHED CIRCUIT BOARD	5010465	4	
9	C2 THRU C10	CAP .01uF, 100V AXIAL	1001610	5
1	C1	CAP 6.8uF, 35V 10% TANT	1005306	6
31	R1 THRU R31	RESISTOR 150- $\frac{1}{4}$ W 5% CC	1300250	7
31	R32 THRU R62	RESISTOR 220- $\frac{1}{4}$ W 5% CC	1300271	8
8	W1 THRU W8	JUMPER, INSULATED WIRE	5009185	9
2	J1, J2	CONN. 40 PIN, RT. ANGLE HEADER	1209941-2	10
4		EYELET	9006732	11
2		HANDLE, FLIP-CHIP, MAGENTA	9008337-6	12
2		LATCH, CONNECTOR LEFT	1209941-3	13
2		LATCH, CONNECTOR RIGHT	1209941-4	14

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: TU16

ETCH BOARD REV: C

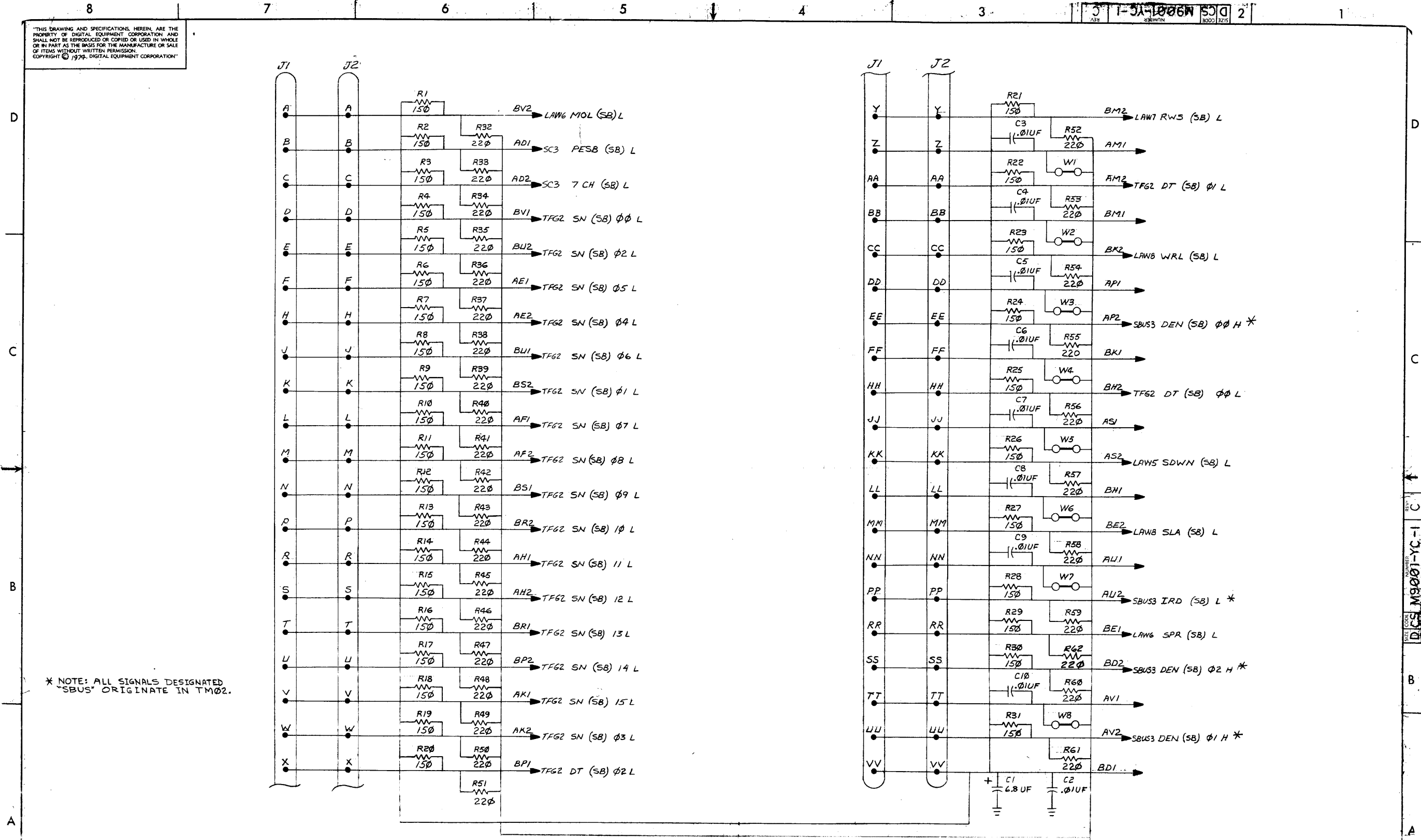
DRN	<i>J. Anderson</i>	DATE	3-9-74
CHCKD	<i>J. Carlsberg</i>	DATE	3/5/74
ENG.	<i>Bruce DeBorja</i>	DATE	2-6-74
PROJ. ENG.	<i>R. C. ...</i>	DATE	1-2-74
PROD.	<i>R. C. ...</i>	DATE	

digital EQUIPMENT CORPORATION
 TITLE: GEN PURPOSE CARD (E+F)
 SIZE: CODE D C S M9001-YC-1 NUMBER C REV. C

SEMICONDUCTOR CONVERSION CHART
 SCALE: SHEET 1 OF 2

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REV. 1-10-74 DCS M9001-YC-1 2



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

REVISIONS		
CHK	CHANGE NO.	REV.

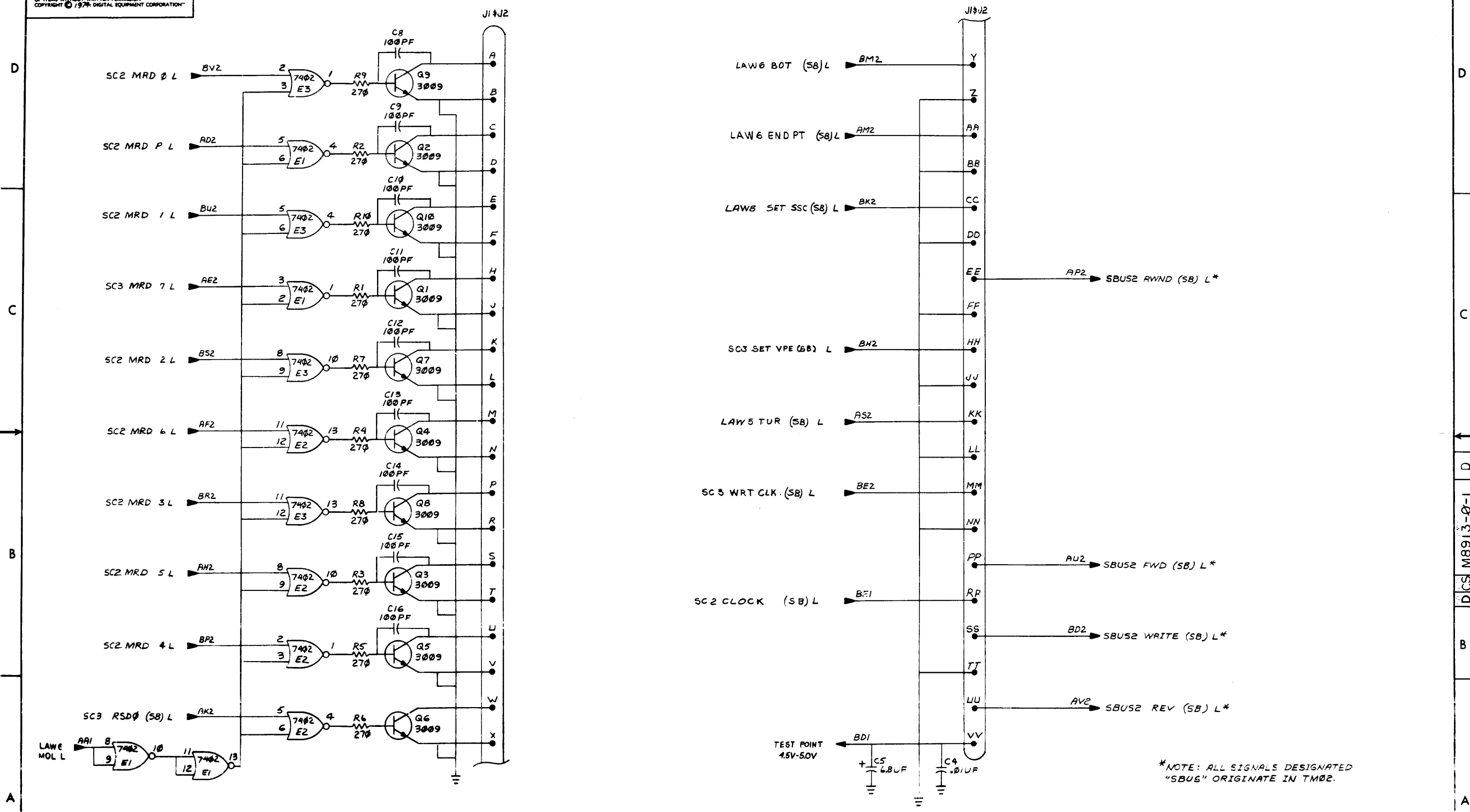
DEC FORM NO. 080 134

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

SCALE SHEET 2 OF 2

REV. 1-10-74 DCS M9001-YC-1 C

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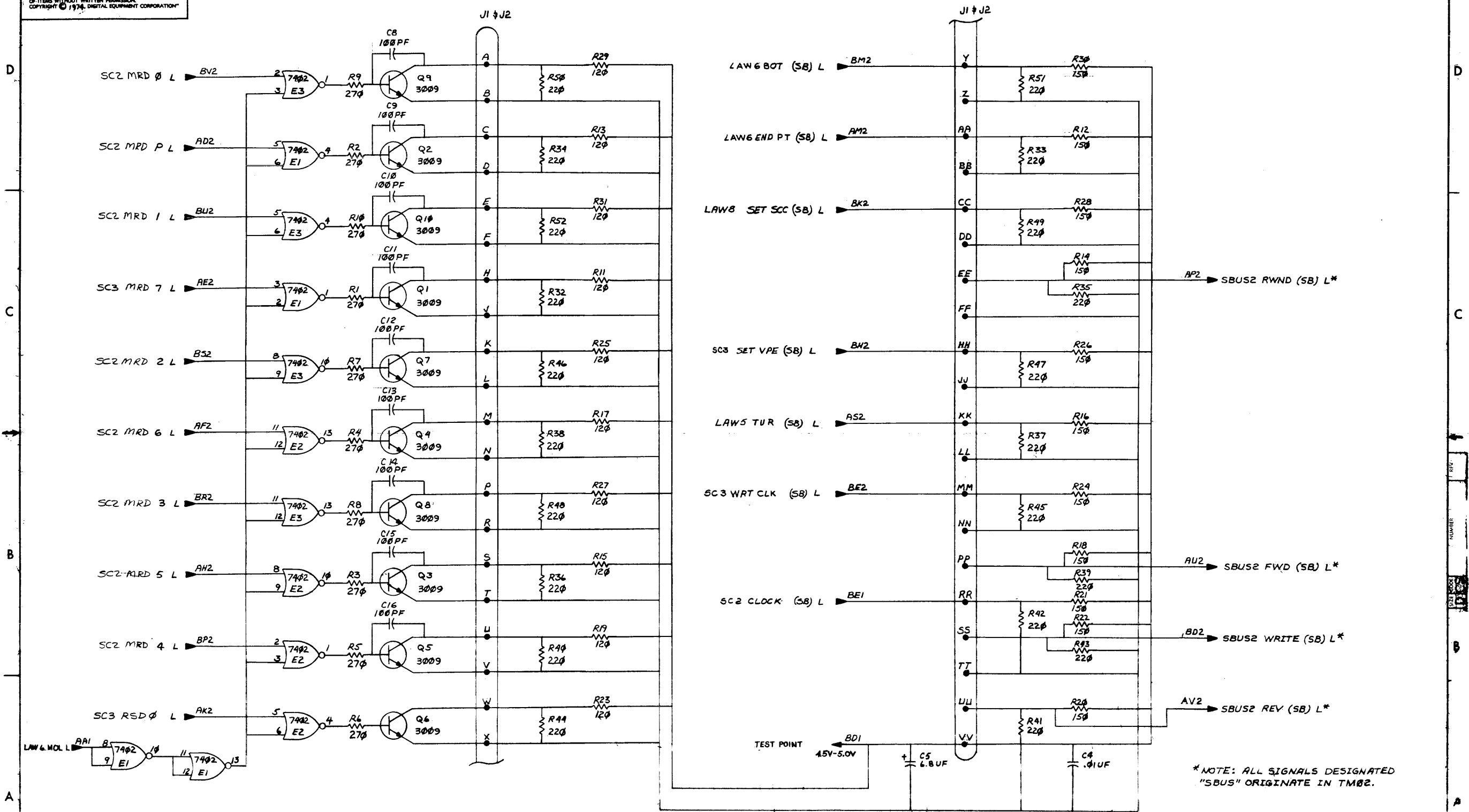


*NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

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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*NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TMB2.

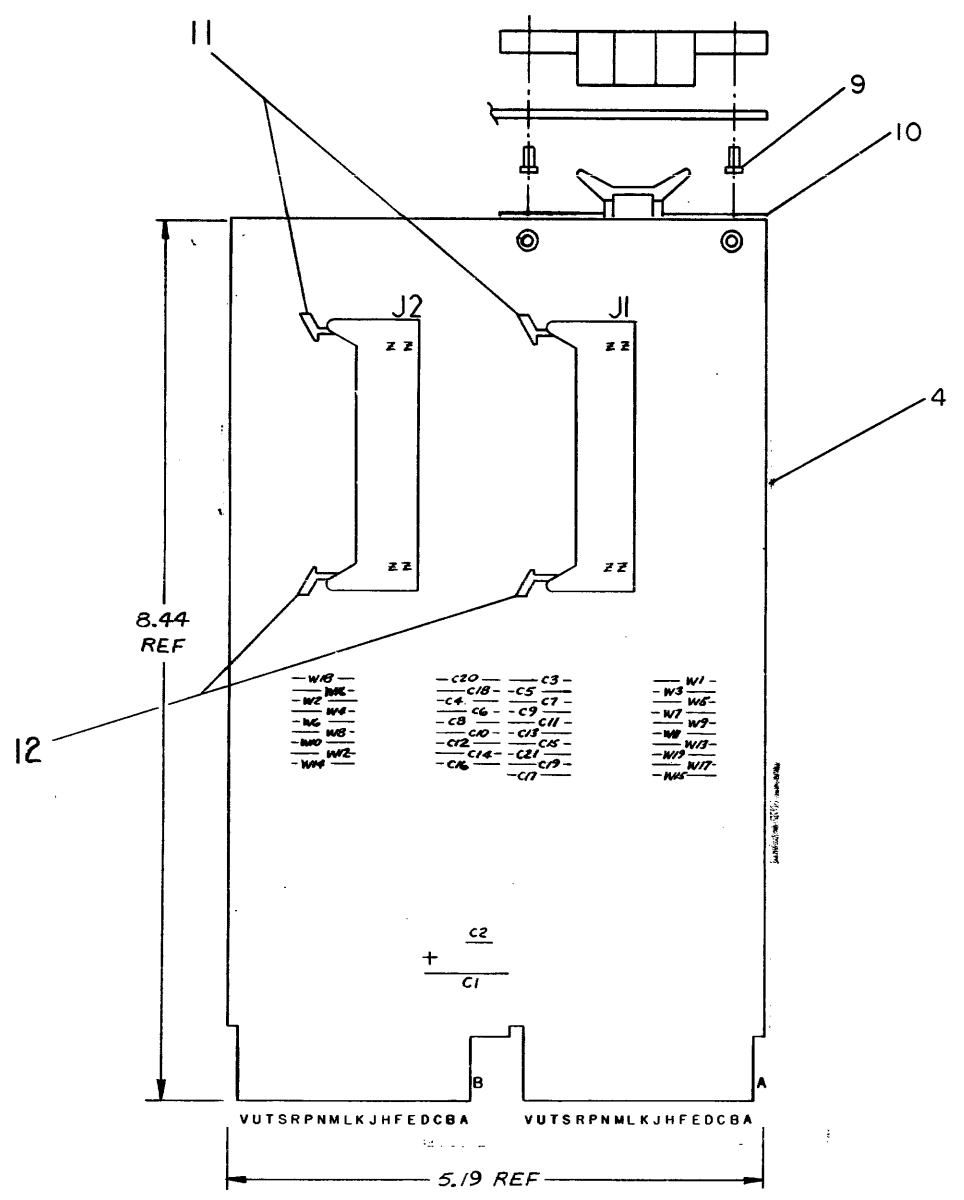
REVISIONS		
CHK	CHANGE NO.	REV.

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

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NOTES:

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



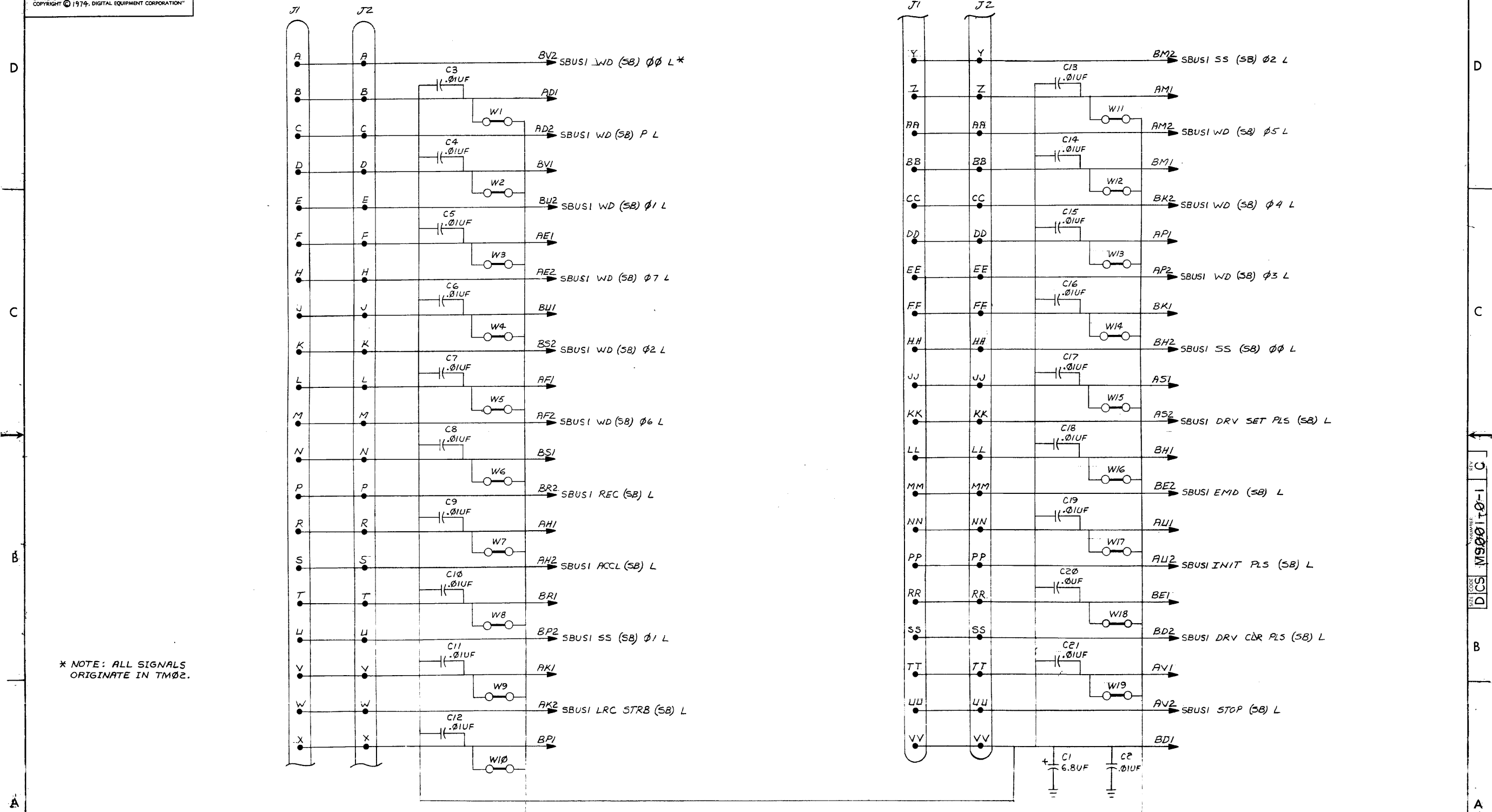
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
	TU16	ETCH BOARD REV C		

DRN. DATE 3/4/74	CHKD. DATE 3/5/74	ENG. DATE 3/5/74	PROJ. ENG. DATE 3-6-74	PROD. DATE 1-7-74
NEXT HIGHER ASSY				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE + + +
SEMICONDUCTOR CONVERSION CHART				
SHEET 1 OF 2				

digital EQUIPMENT CORPORATION	
TITLE GEN PURPOSE CARD (A & B)	
SIZE CODE DCS	NUMBER M9001-0-1
REV. C	

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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REVISIONS		
CHK	CHANGE NO.	REV

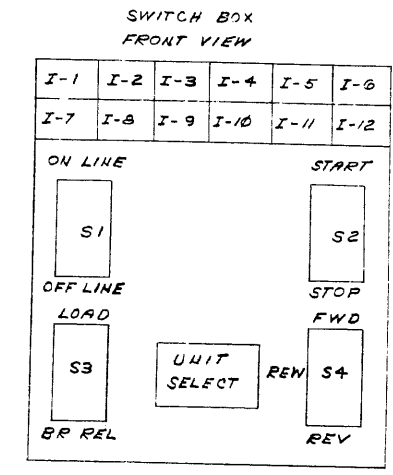
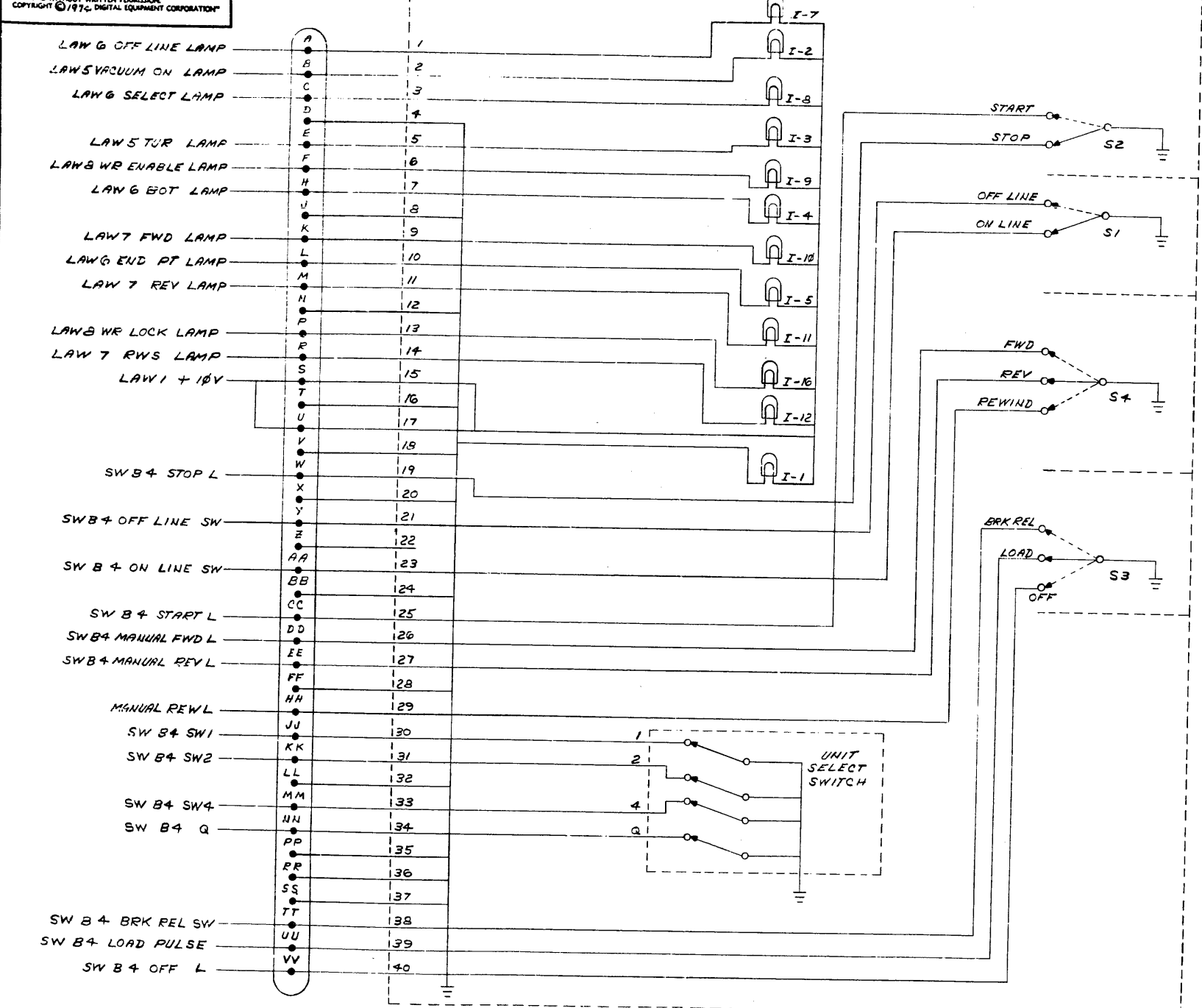
TITLE	GEN PURPOSE CARD (A & B)	SIZE CODE	DCS	NUMBER	M9001-0-1	REV.	C
SCALE	1:1	SHEET	2	OF	2	DIST.	

DRAWING NUMBER DCS M9001-0-1 C

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1-029-002 2

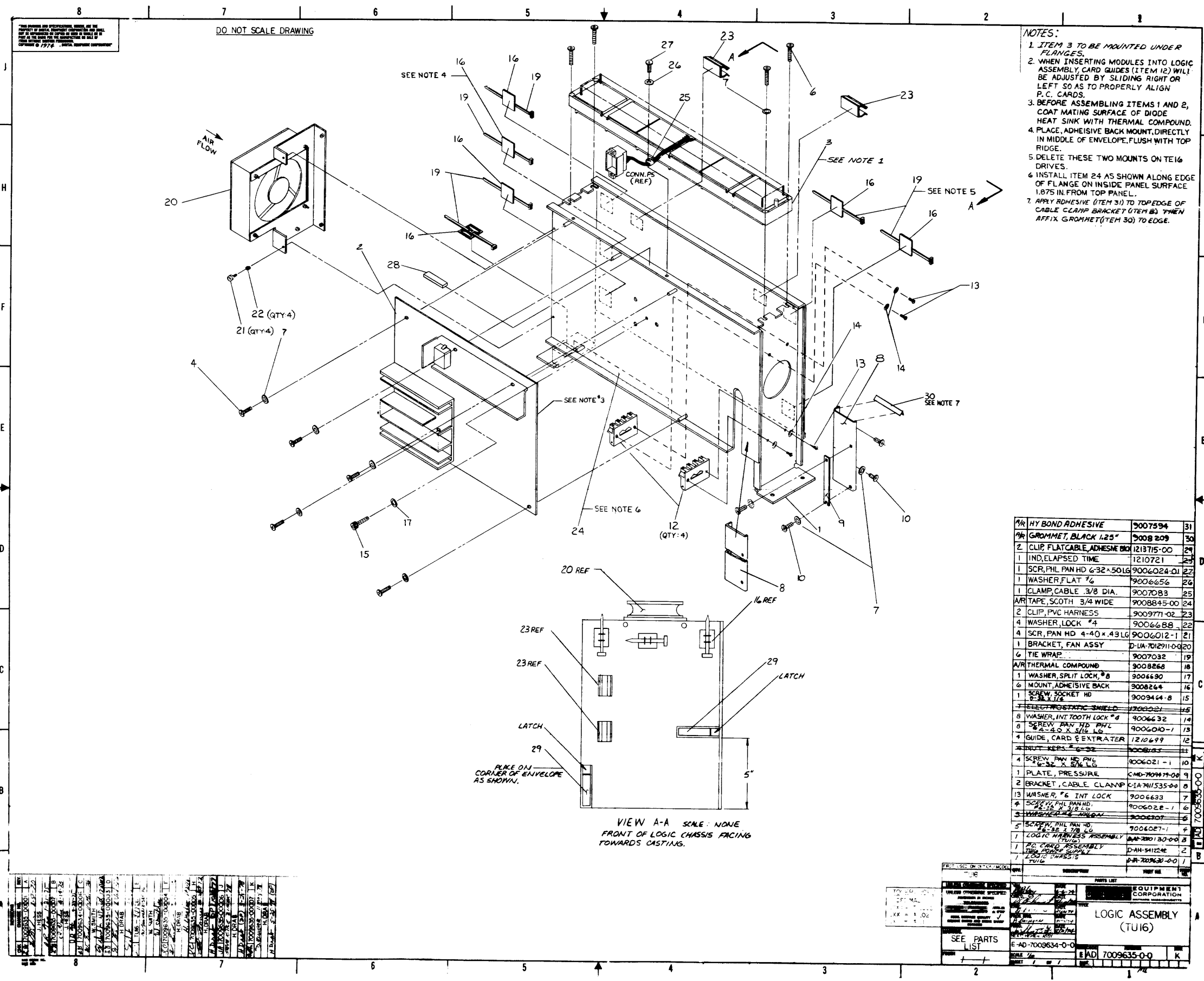
SWITCH BOX ASSEMBLY



REV.	
CHK	
CHANGE NO.	

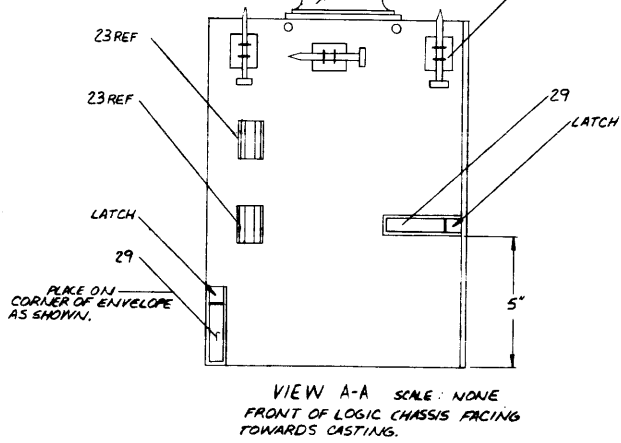
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU16					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		digital			
MILLIMETERS	INCHES	ANGLES	DATE	TITLE	
XXX ±0.10	.XXX ±.005	±0° 30'	7-2-74	WIRING CONTROL BOX	
XX ±0.5	.XX ±.02		7-2-73		
X ±2.	X ±.1		9/28/74		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL	FINISH		D-AD-7009637-0-0	SIZE/CODE	NUMBER
			SCALE	D/KS 7009637-0-1	REV.
			SHEET 1 OF 1	DIST	

REV. NUMBER DCS700-4r-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 8). 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 5.0 LG	9006024-01	27
1 WASHER, FLAT 7/6	9006656	26
1 CLAMP, CABLE 3/8 DIA.	9007083	25
ARI TAPE, SCOTCH 3/4 WIDE	9008845-00	24
2 CLIP, PVC HARNESS	9009771-02	23
4 WASHER, LOCK #4	9006688	22
4 SCR, PAN HD 4-40 X .43 LG	9006012-1	21
1 BRACKET, FAN ASSY	D-1A-7012911-00	20
6 TIE WRAP	9007032	19
1/8" THERMAL COMPOUND	9008268	18
1 WASHER, SPLIT LOCK #8	9006690	17
6 MOUNT, ADHESIVE BACK	9008264	16
1 SCREW SOCKET HD	9009464-B	15
1 ELECTROSTATIC SHIELD	9006021	14
8 WASHER, INT TOOTH LOCK #8	9006632	13
8 SCREW PAN HD PHL	9006010-1	12
4 GUIDE, CARD & EXTRA TER	1210699	12
4 NUT KEYS #6-32	9006021	11
4 SCREW PAN HD, PHL	9006021-1	10
1 PLATE, PRESSURE	CMD-7009779-00	9
2 BRACKET, CABLE CLAMP	C-1A-701535-00	8
13 WASHER, #6 INT LOCK	9006633	7
4 SCREW, PHL PAN HD	9006022-1	6
5 WASHER, INT TOOTH LOCK	9006632	5
5 SCREW, PHL PAN HD	9006021-1	4
1 LOGIC HARNESS ASSEMBLY	D-1A-700130-00	3
1 P.C. CARD ASSEMBLY	D-1A-541224E	2
1 LOGIC CHASSIS	D-1A-7009634-0-0	1



REV	DESCRIPTION	DATE	BY	CHKD
1	INITIAL ISSUE			
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			

LOGIC ASSEMBLY (TU16)

EQUIPMENT CORPORATION

7009634-0-0

DATE: 1974

SCALE: 1/1

REV: 1

BY: [Signature]

CHKD: [Signature]

APP: [Signature]

SEE PARTS LIST

8

7

6

5

4

3

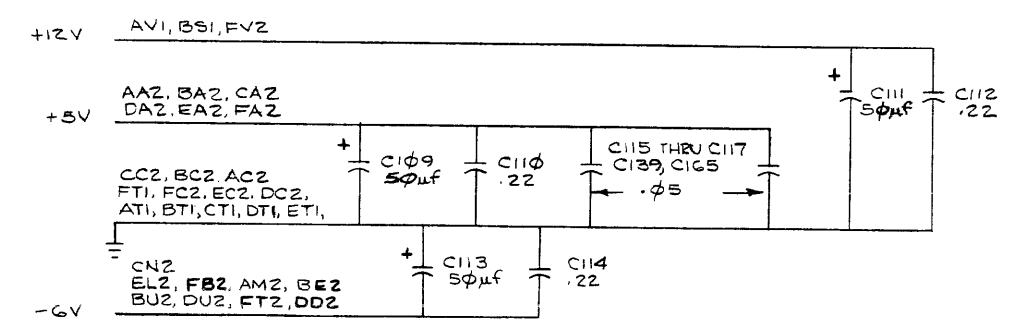
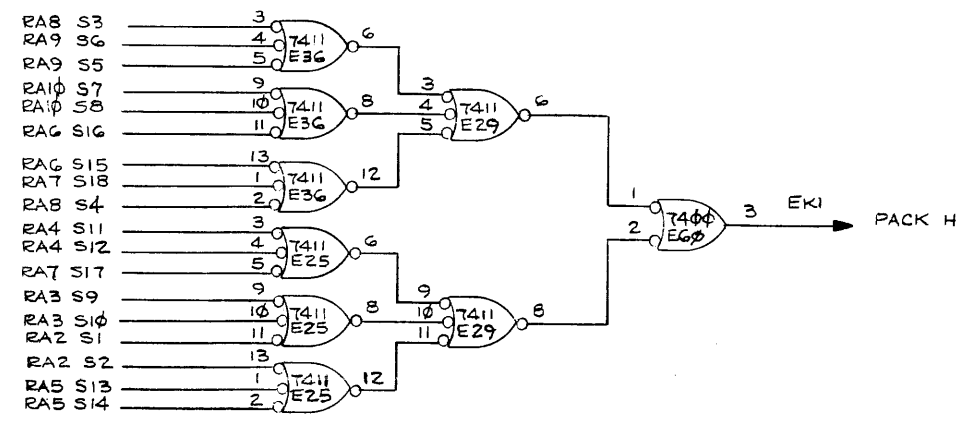
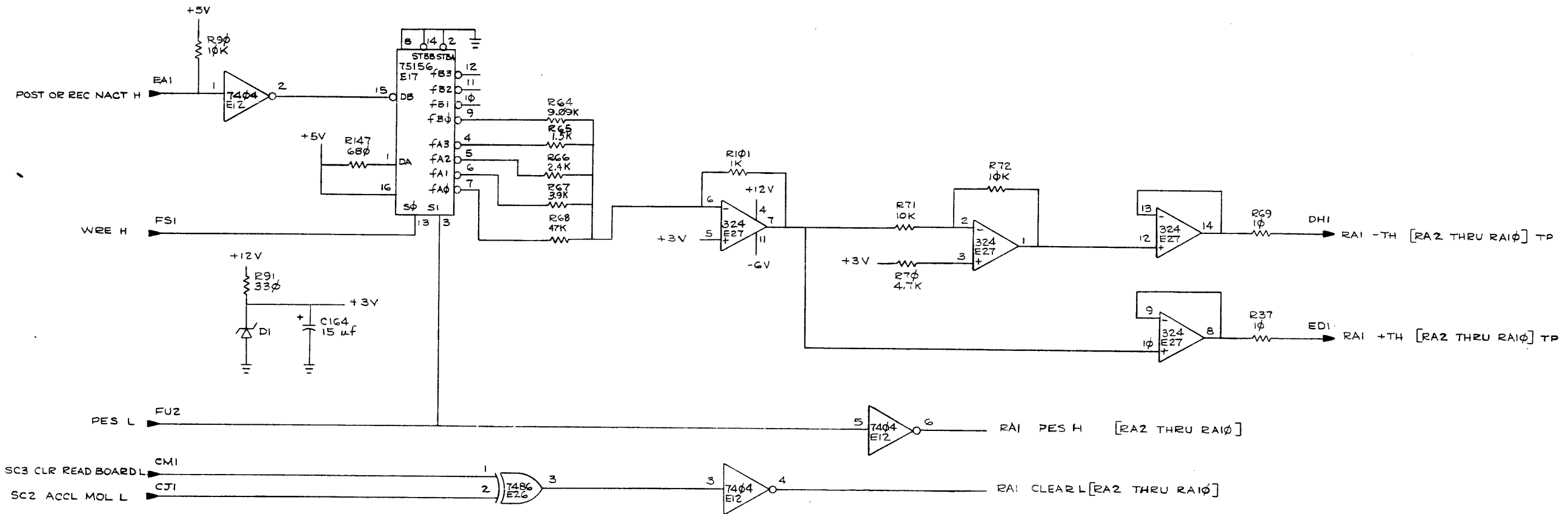
1-0-9909

1

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NOTE:

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

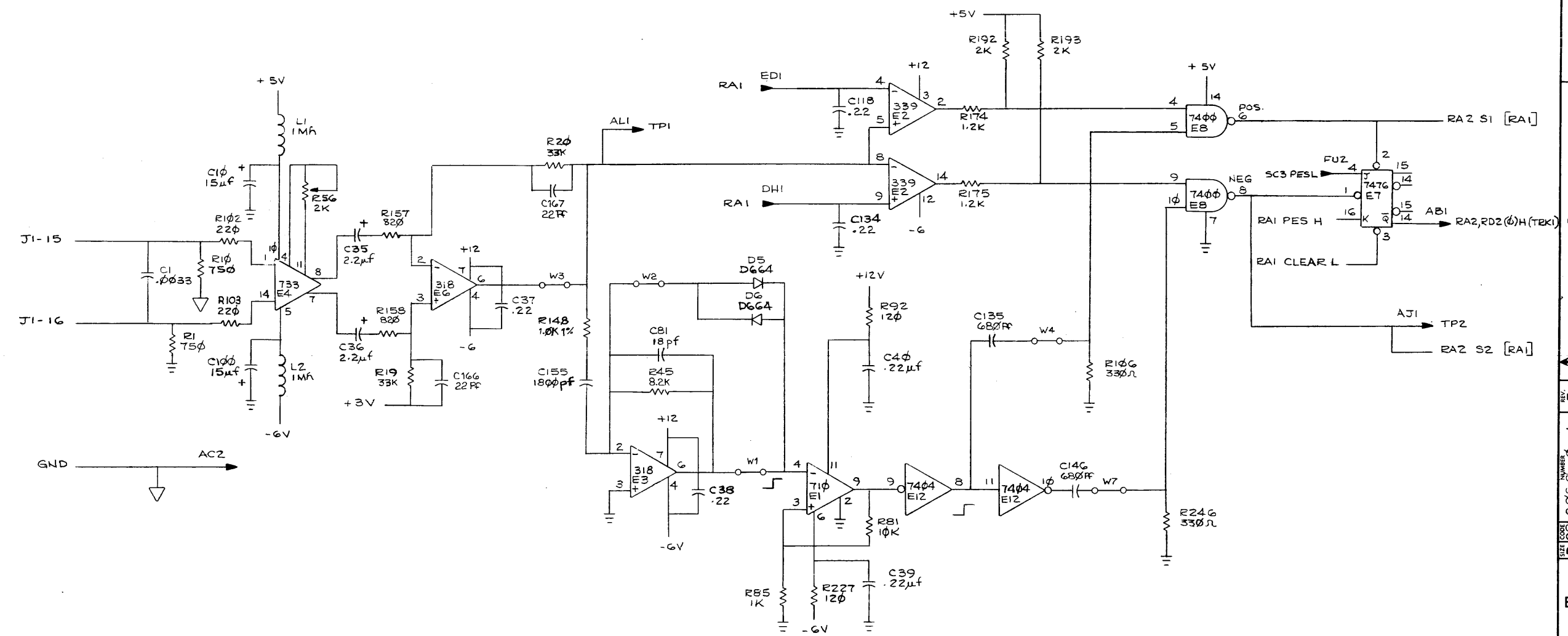


REV.	CHG.	NO.	DATE	BY	CHKD.
1		00001			
2		00002			
3		00003			
4		00004			
5		00005			
6		00006			
7		00007			
8		00008			

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

REV. F
G066-0-1
D CS

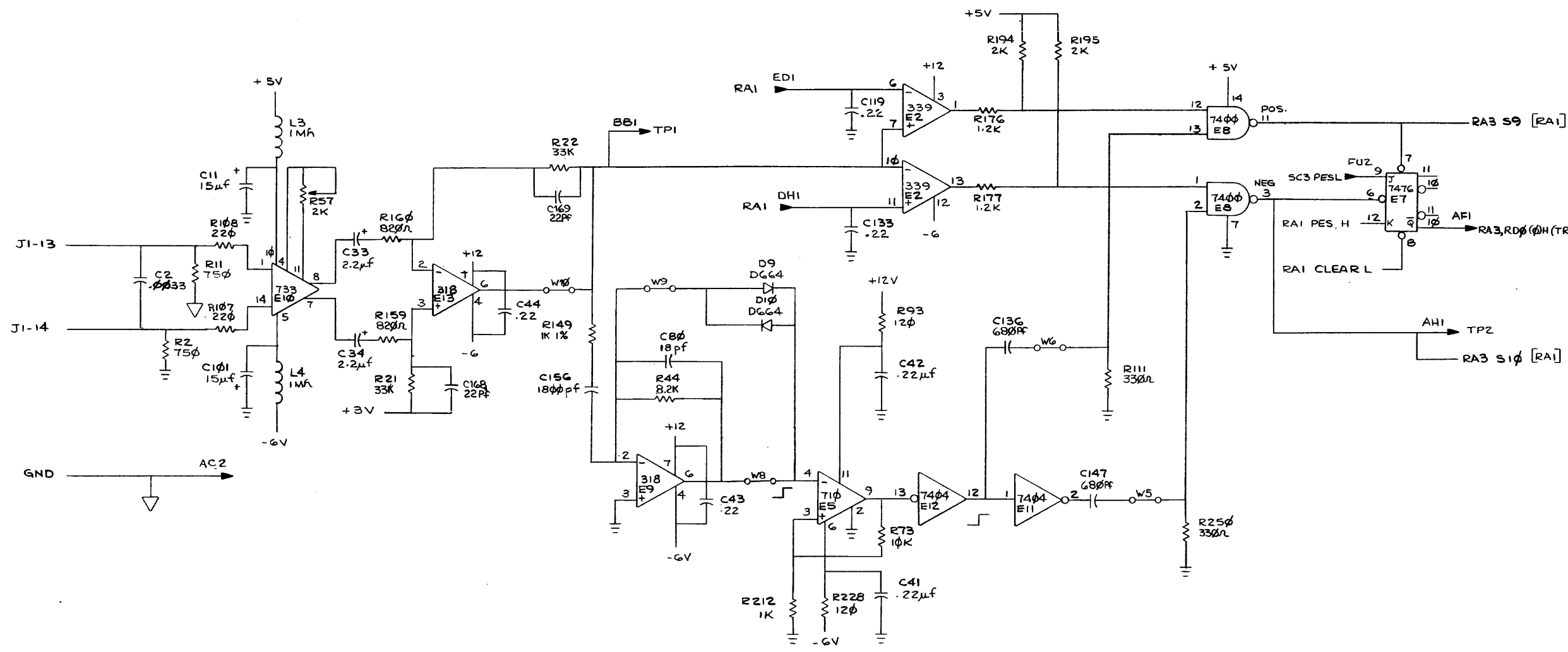
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REVISIONS		
CHK	CHANGE NO.	REV.

REV. 1-0-9909 SC 2

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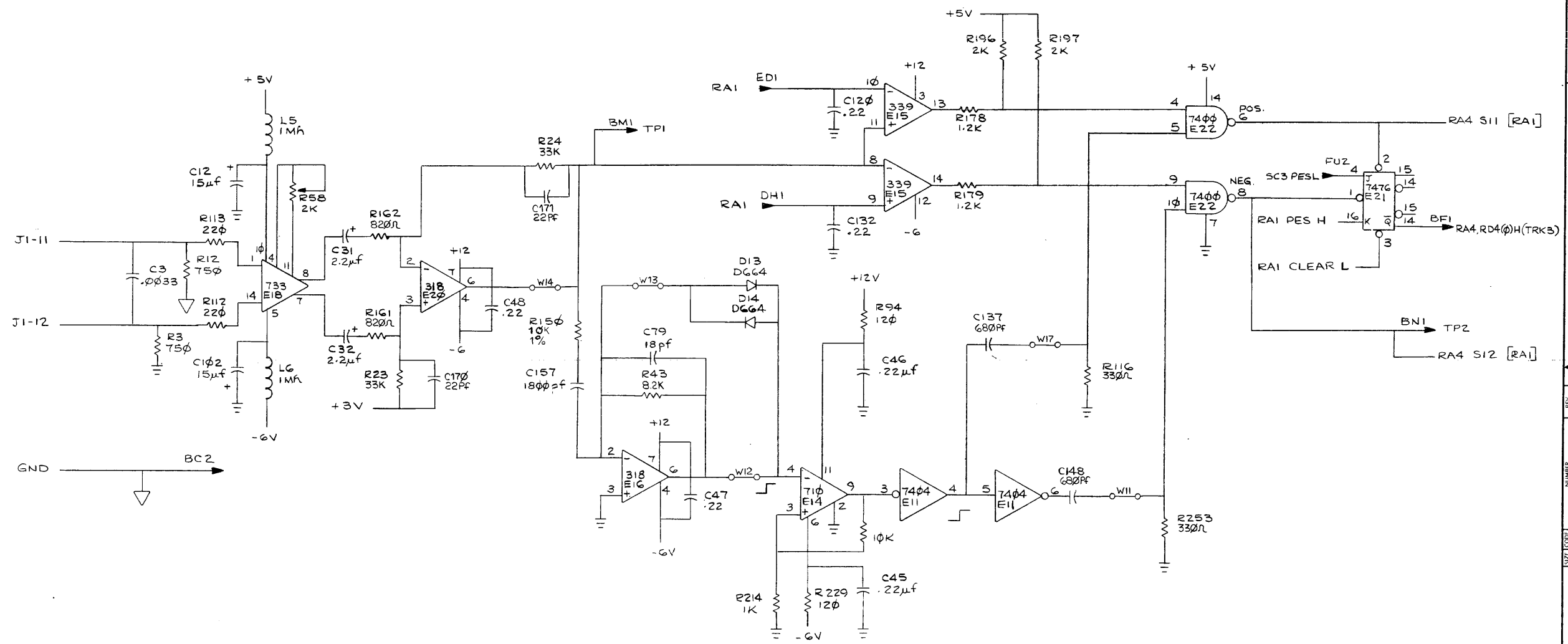


REVISIONS		
CHK	CHANGE NO.	REV.

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

REV. 1
NUMBER G066-0-1
D CS

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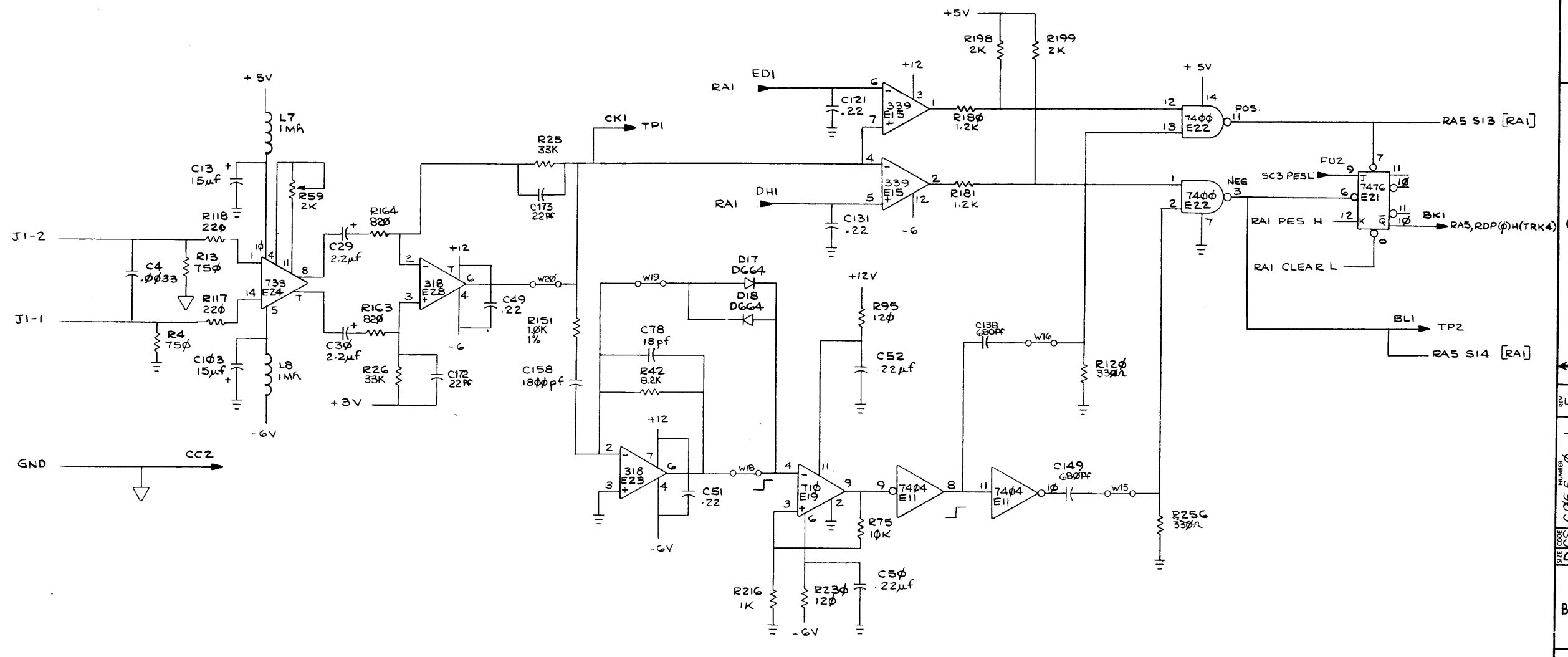


REVISIONS		
CHK	CHANGE NO.	REV.

REV. F
 NUMBER G066-0-1

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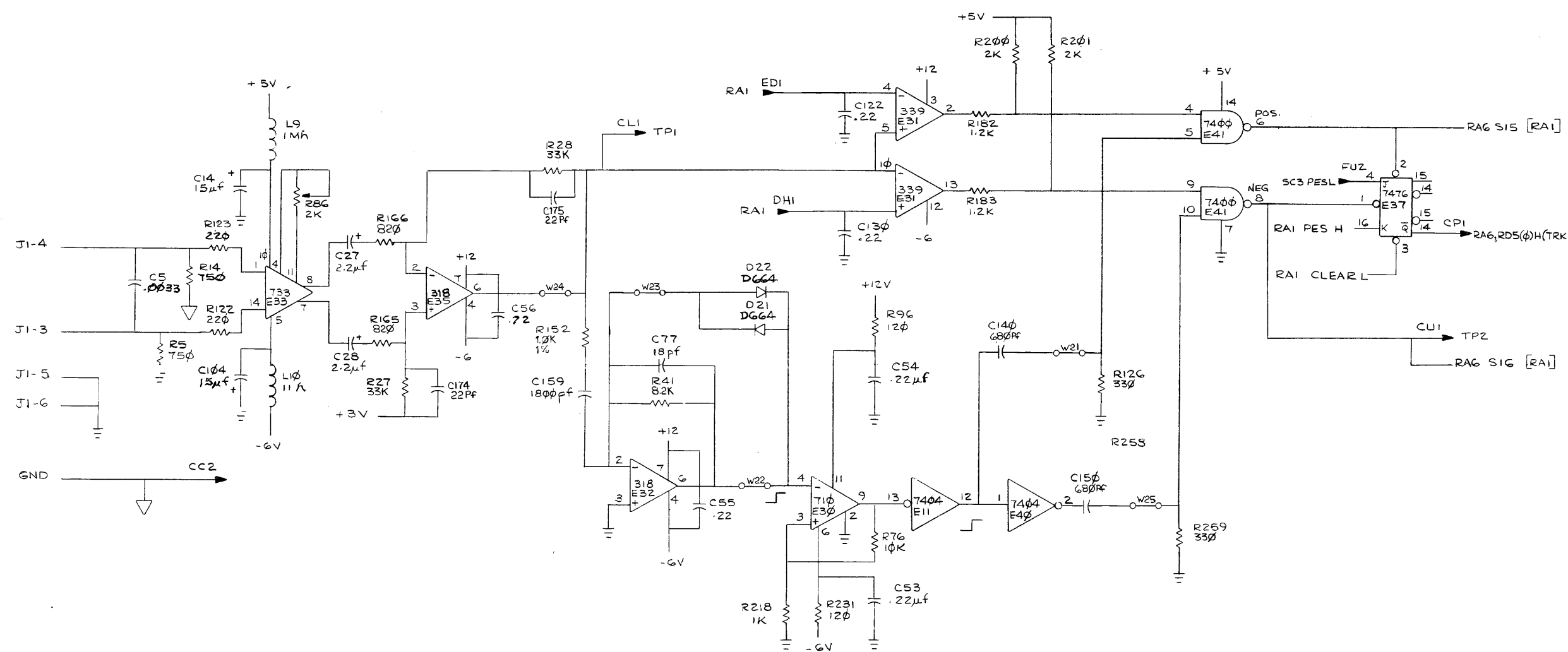
1-0-9909 SC D 2



REVISIONS		
CHK	CHANGE NO.	REV.

REV 1
NUMBER G066-0-1
SIZE CODE DCS

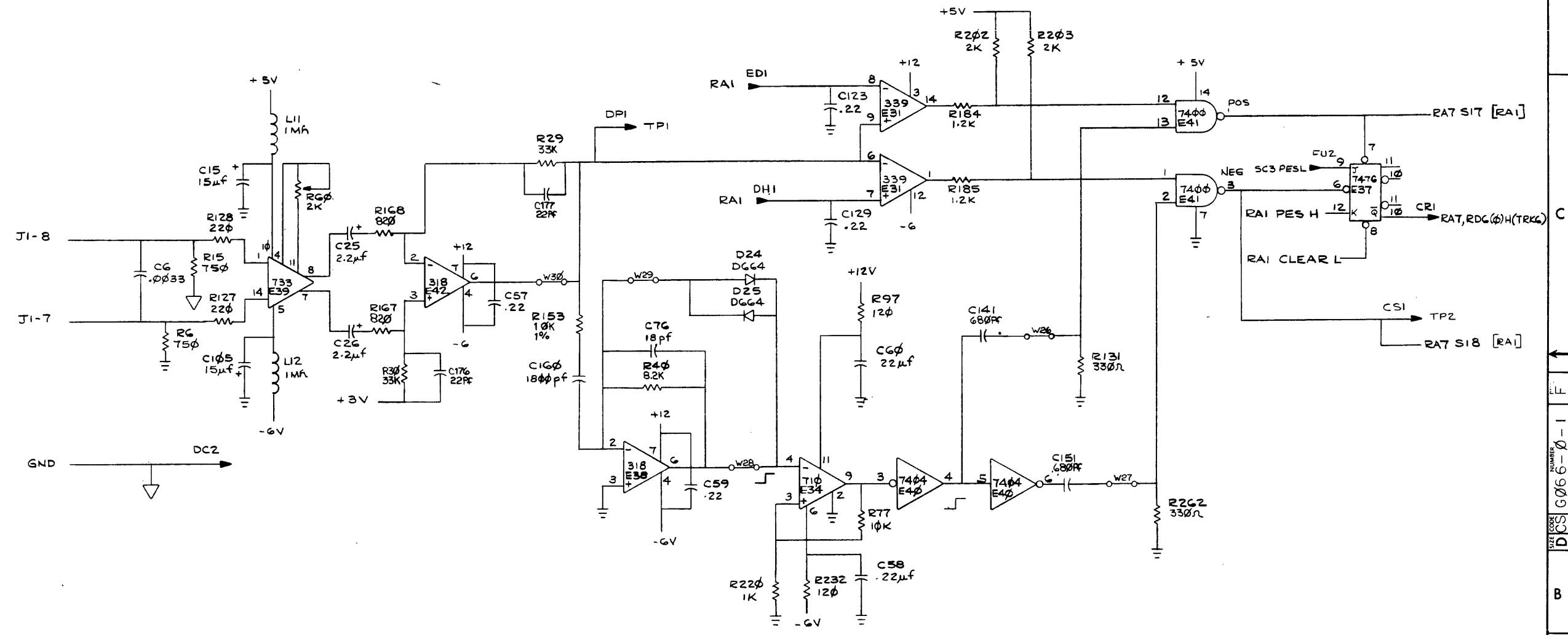
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REVISIONS		
CHK	CHANGE NO.	REV.

REV. F
NUMBER G066-0-1
DCS

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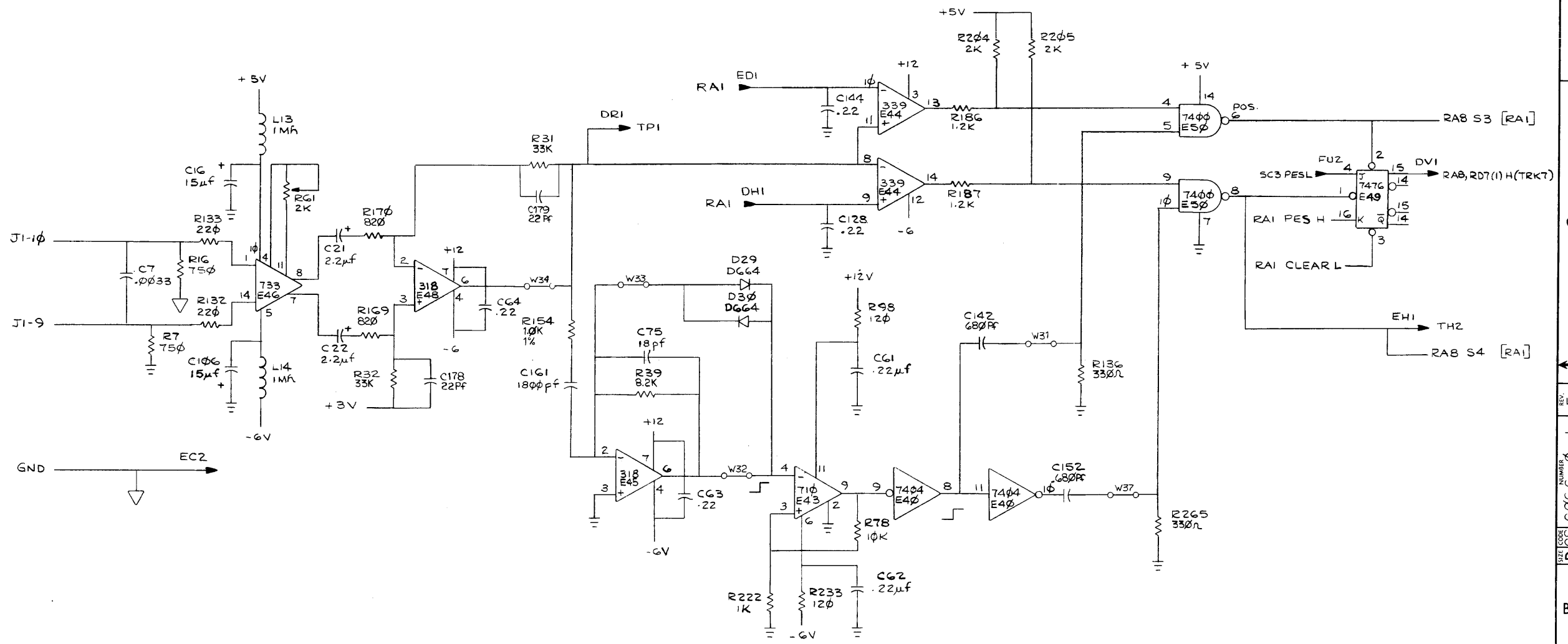


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RA7)	SIZE CODE	DCS G066-0-1	NUMBER	1	REV.	F
SCALE	1:1	SHEET	7	OF	10	DIST.	

DCS G066-0-1 F

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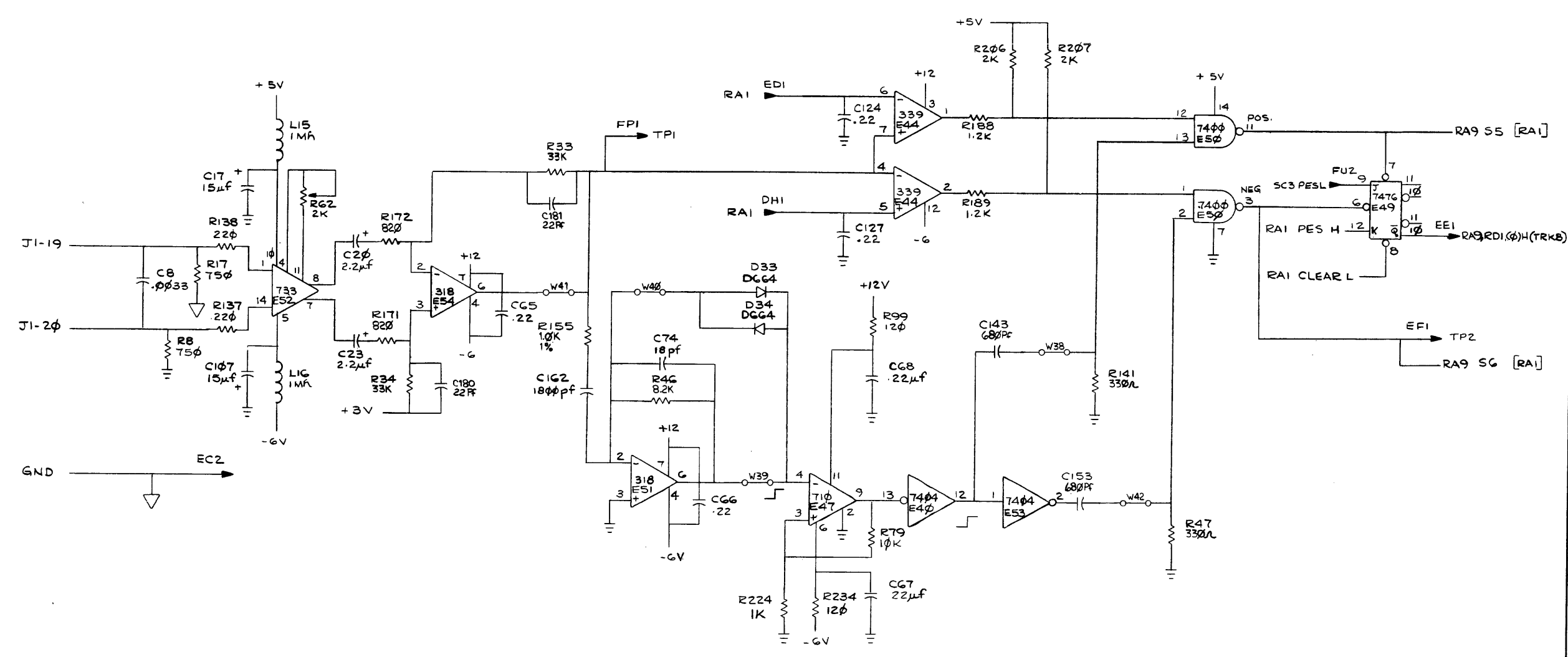
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RAB)	SIZE CODE	D CS G066-0-1	NUMBER	1	REV.	F
SCALE	1/8"	SHEET	B	OF	10	DIST.	

SIZE CODE NUMBER REV.
 D CS G066-0-1 F

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REV 1-0-9909 DCS 2

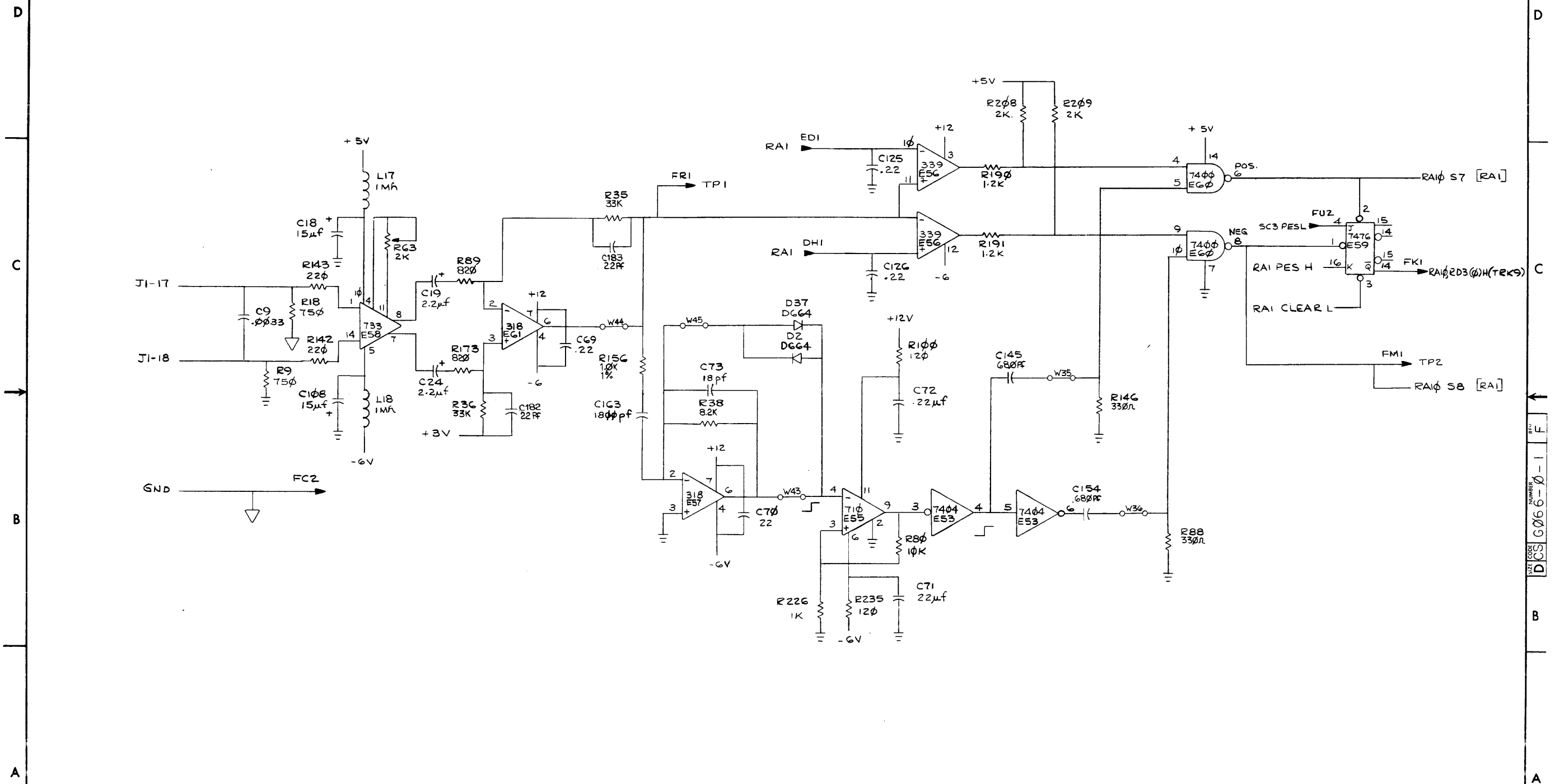


REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1	
TITLE 9TK TUI6 READ AMP (RA9)						SIZE CODE DCS	NUMBER 66-0-1	REV. F
SCALE						SHEET 9	OF 10	DIST.

REV. 1-0-9909 DCS 2

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	9TK TU16 READ AMP (RA10)	SIZE CODE	NUMBER	REV.
SCALE	1:1	D CS	6066-0-1	F
SHEET	10	OF	10	

D CS 6066-0-1 REV. F

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REV. F
NUMBER TUI6-Ø-WL
SIZE CODE K WL
2
1

B
A

REVISIONS	
CHK	CHANGE NO.
888	TUI6-00010 <i>W. Drake 5-5-75</i>
	J. HESS
	<i>J. R. Hess 5-7-75</i>
888	TUI6-00013 <i>W. Drake 7-25-75</i>
	J. HESS
	<i>John R. Hess 7-10-75</i>
888	TUI6-00021 <i>P. Draper 25 JUN 76</i>
	H. DRAB
	<i>H. Drab 6 Jul 76</i>
888	TUI6-00022 <i>H. Drab 2 Aug 76</i>
	H. DRAB
	<i>H. Drab 2 Aug 76</i>
AK	TUI6-00027 <i>K.T. Chissem 3 MAR. 77</i>
K.T.	TUI6-00030 <i>H. Drab 3-9-77</i>
	H. DRAB

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUI6				
PARTS LIST				
DRN.	<i>D. Schmitt</i>	DATE	2/20/74	
CHK'D.	<i>D. Schmitt</i>	DATE	2/24/74	
ENG.	<i>J.R. Hess</i>	DATE	2-20-74	
PROB. ENG.	<i>J.R. Hess</i>	DATE	2-20-74	
PROD.	<i>W.A. Smith</i>	DATE	5-31-74	
NEXT HIGHER ASSEMBLY				
D-AD-7009605-0-0				
SCALE	<i>1/1</i>		SIZE CODE	NUMBER
SHEET	1	OF	1	
			K WL	TUI6-Ø-WL
			DIST.	
			REV.	F

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TITLE
WIRE LIST
(TUI6)

4 3 2 1

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) I		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 PV 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 NAME	ORDER PIN	28-Jan-77 BAY - Q ORDER	DRAW	RV RG Y	X Z	REMARKS	24-Feb-77	13108 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 NAME	ORDER PIN	28-Jan-77 BAY - Q ORDER	DRAW	RV RG Y	X Z	REMARKS	24-Feb-77	13108 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

RUN NAME	A/P	PIN	ORDER	BAY	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	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

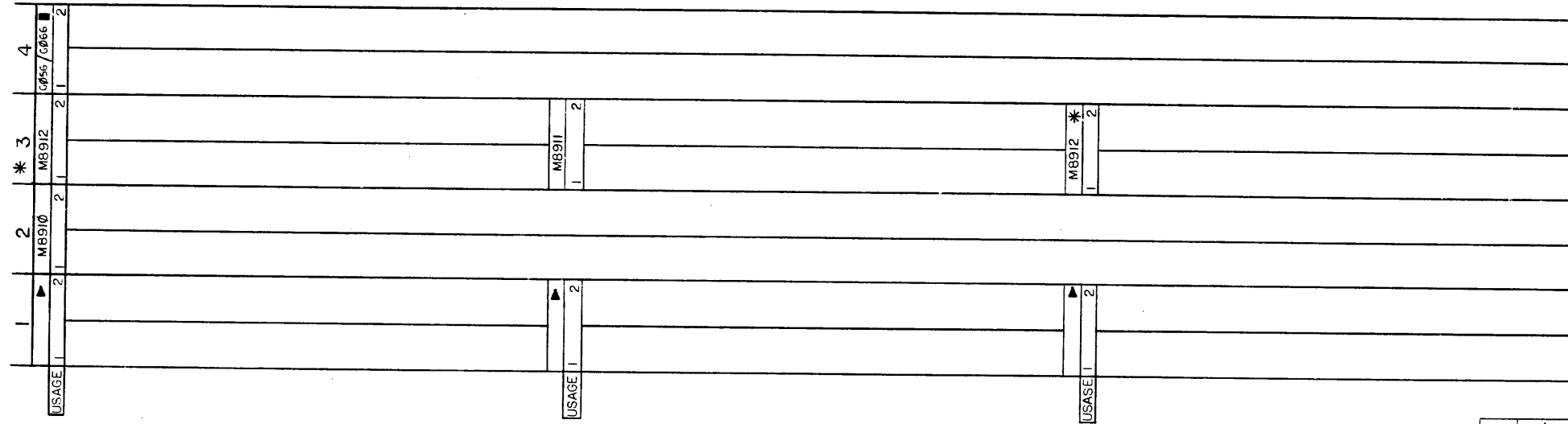
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REV. C
D/MU TU16-0-MU 2

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

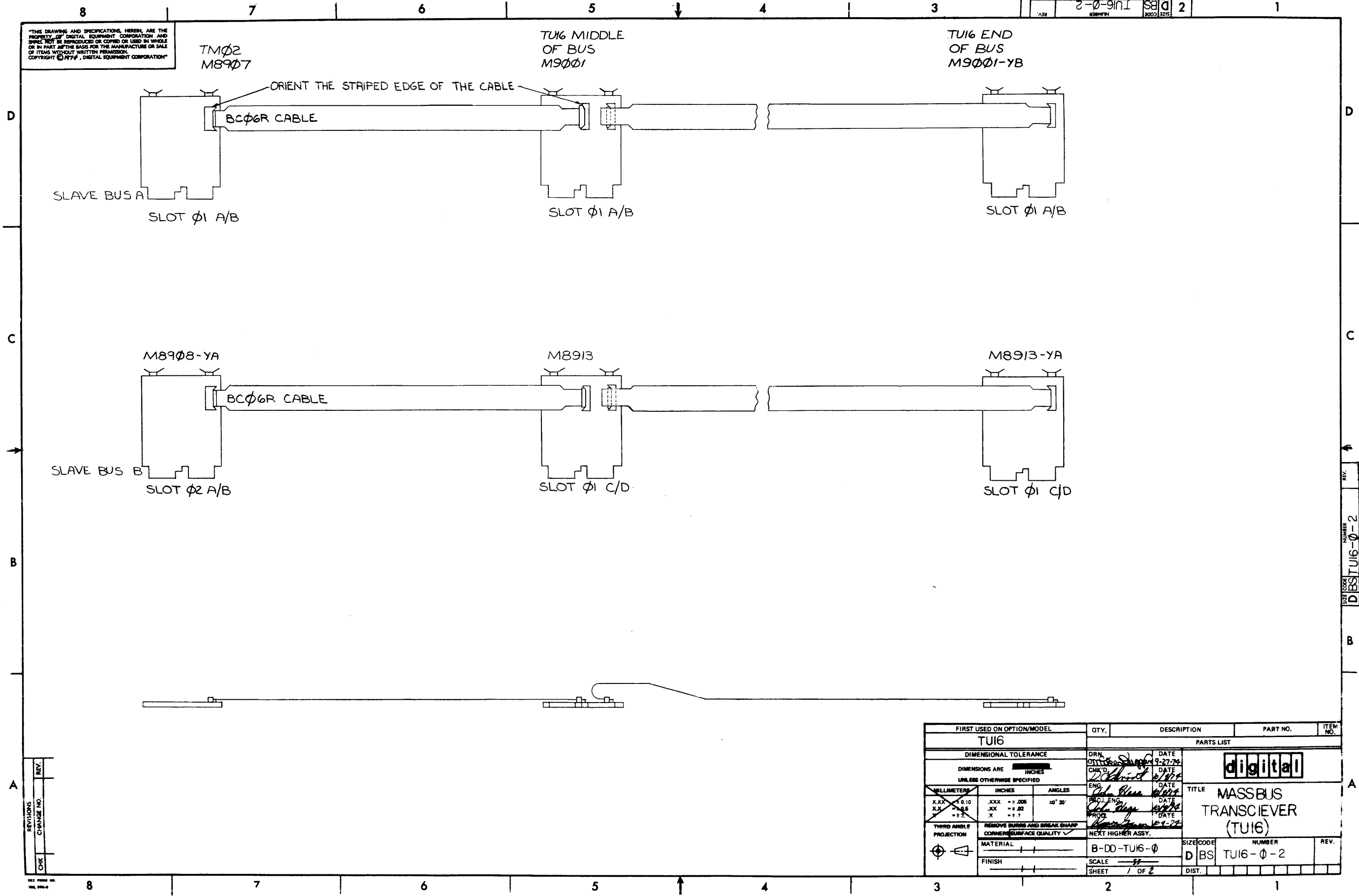
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	G066 READ CABLE	7012844	9
1	ELECTROSTATIC SHIELD	1700021	8
A/R	GEN PURPOSE CARD (E/F)	M9001-YA	7
1	CLK & TEST LOGIC	M8911	6
A/R	DATA DRIVER	M8913	5
1	READ AMP (RA1)	G056/G066	4
2	SLAVE TEST FUNCT GEN	M8912	3
1	LOGIC & WRITE BOARD	M8910	2
A/R	GEN PURPOSE CARD (A/B)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

FIRST USED ON OPTION/MODEL		TU16	
DIMENSIONAL TOLERANCE		PARTS LIST	
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED			
MILLIMETERS	INCHES	ANGLES	TITLE
XXX ±0.10	JXX ±.008	30° 30'	MODULE UTILIZATION
XX ±0.5	JX ±.02		
X ±2	X ±.1		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.	
MATERIAL	FINISH	D-UA-TU16-0-0	SIZE CODE NUMBER REV. C
		SCALE	D MU TU16-0-MU
		SHEET OF	DIST.

REV.	CHANGE NO.	BY	DATE
A	0000	J. HESS	7-10-74
B	0007	J. HESS	7-10-74
C	00031	H. DRAB	7-10-74

SEC FORM 34 DEP 102-C

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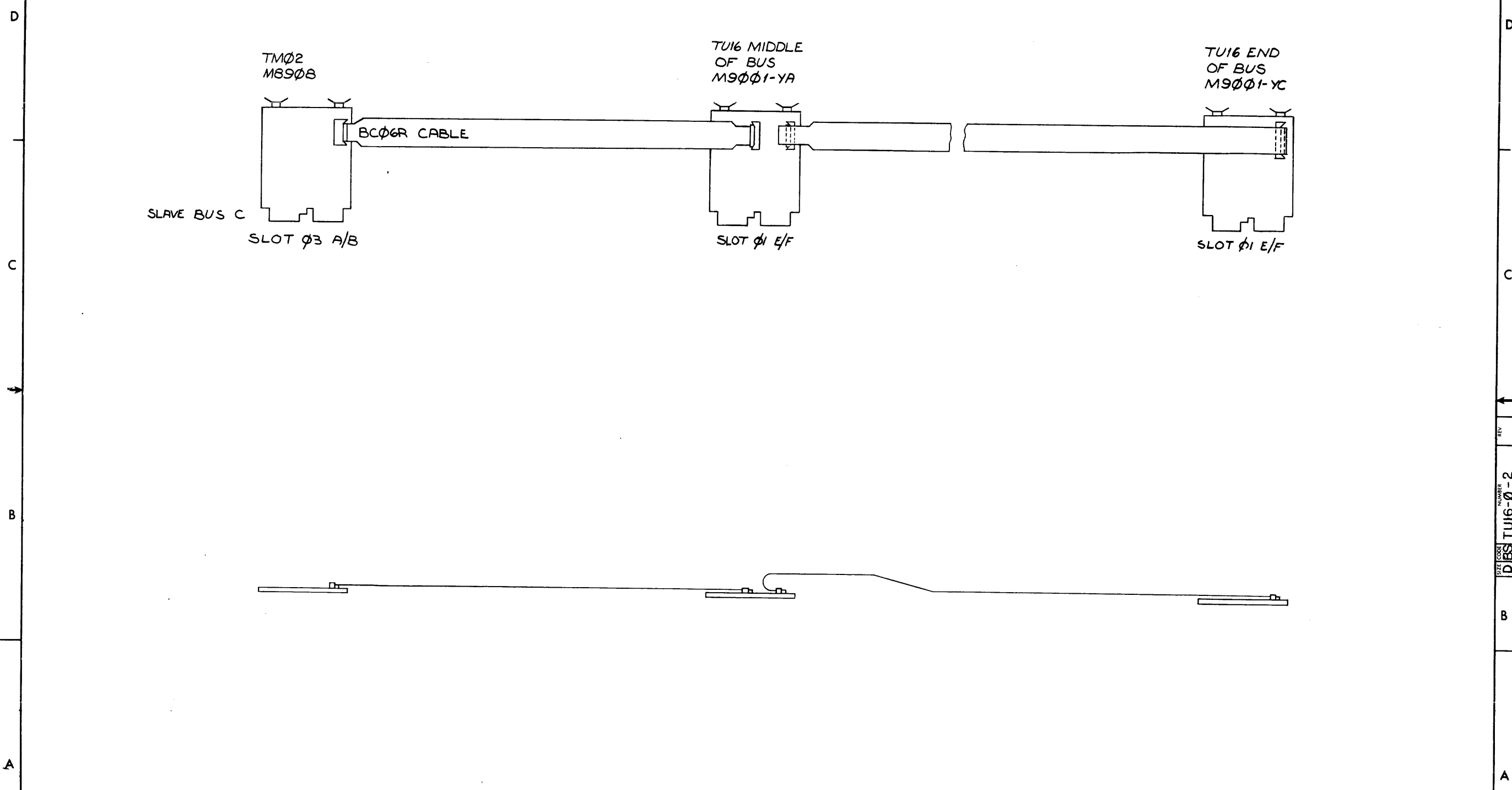


REV.	
CHG	
CHK	
REV. NO.	
CHANGE NO.	

FIRST USED ON OPTION/MODEL TUI6	QTY.	DESCRIPTION	PART NO.	ITEM NO.
DIMENSIONAL TOLERANCE	PARTS LIST			
DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED	DRN <i>[Signature]</i>	DATE 9-27-74	digital	
MILLIMETERS	CHK'D <i>[Signature]</i>	DATE 10/10/74	TITLE MASSBUS TRANSCIEVER (TUI6)	
THIRD ANGLE PROJECTION	ENG. <i>[Signature]</i>	DATE 10/10/74	NEXT HIGHER ASSY.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG. <i>[Signature]</i>	DATE 10/10/74	SIZE CODE D BS	NUMBER TUI6-φ-2
MATERIAL	FINISH	SCALE	SHEET	REV.
			1 OF 2	

REV. 2
NUMBER D BS TUI6-φ-2

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REVISIONS		
CHK	CHANGE NO.	REV.

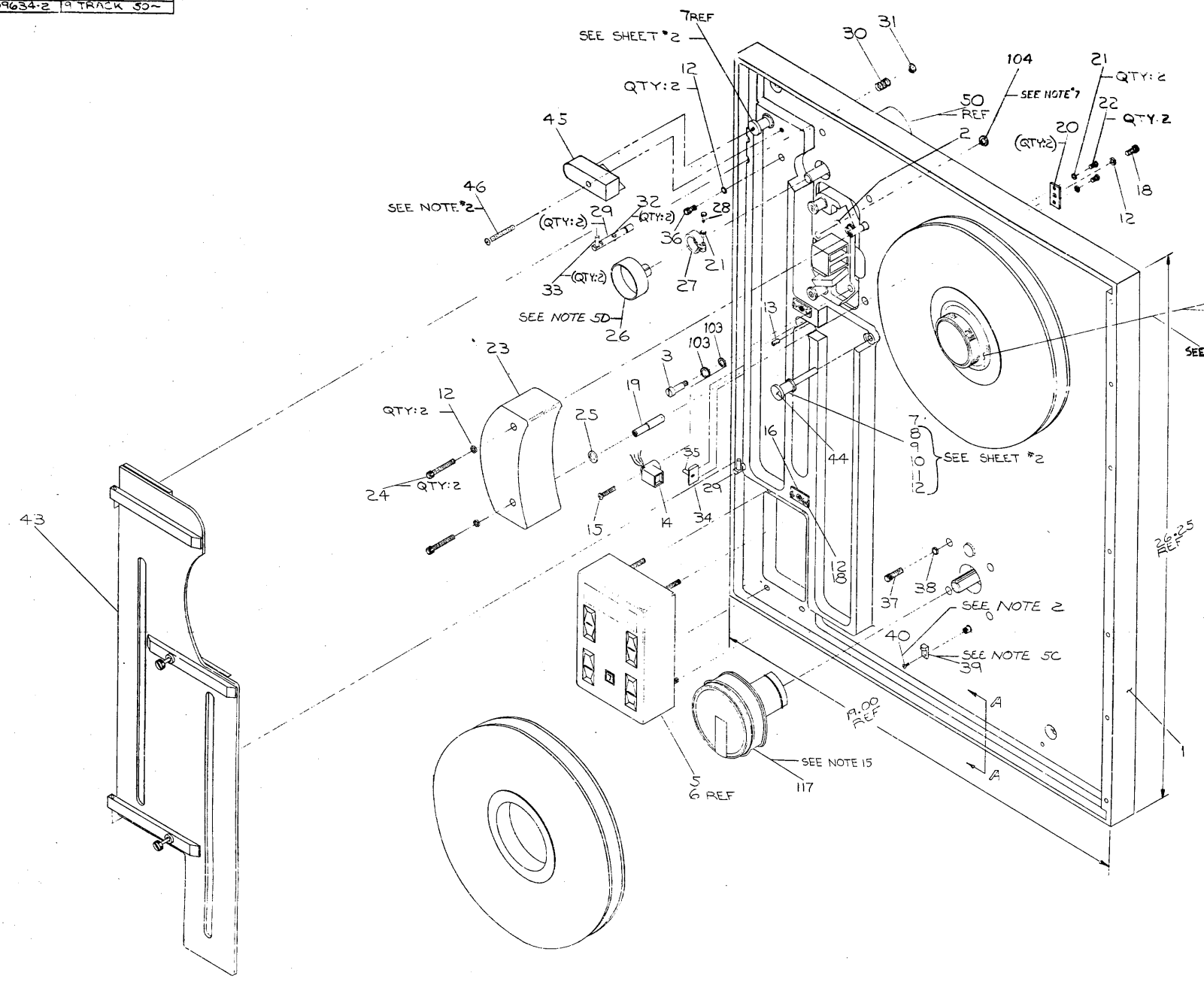
XC FORM 10
RD 137

D BS TUI6-Ø-2

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LEGEND	
NUMBER	VARIATION
7009634-1	A TRACK 63~
7009634-2	A TRACK 59~

- 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:
 - ROLLER GUIDE GAGE #9605460
 - HUB GAGE #9605461
 - READ WRITE REEL GAGE #9605493
 - CAFSTAN GAGE #9605606
 - REELS (ITEMS 1 & 2) ARE SUPPLIED AT UNIT ASSY.
 - PRECISION SPACERS (3 REQ) THICKNESS PER SPEC. A-SP-TUIG-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.



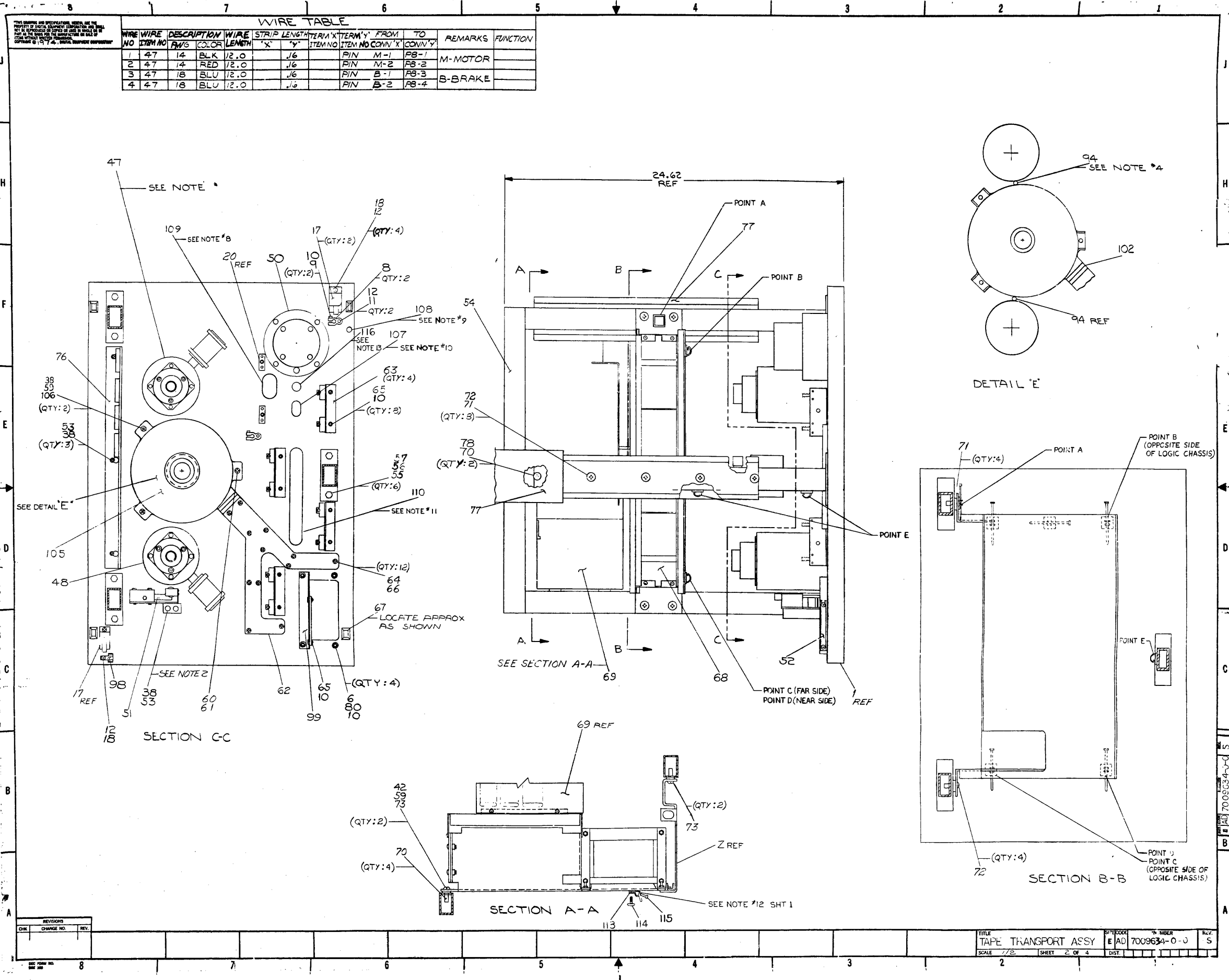
REV.	DESCRIPTION	DATE	BY	CHKD.
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2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
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97	REVISION			
98	REVISION			
99	REVISION			
100	REVISION			

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	REV.
TUIG				

DIMENSIONAL TOLERANCE		DATE	
INCHES	±.0005	DATE	
MILLIMETERS	±.010	DATE	

PROJ. ENGR.	DATE	TITLE
		TAPE TRANSPORT ASSY

SCALE	SIZE CODE	NUMBER	REV.
1/2	D-1A-TUIG-0-0	E AD 7009634-0-0	5



WIRE TABLE

WIRE NO	ITEM NO	AWG	COLOR	WIRE LENGTH	STRIP LENGTH	TERMINAL 'X'	TERMINAL 'Y'	FROM	TO	REMARKS	FUNCTION
				'X'	'Y'	ITEM NO	ITEM NO	CONN 'X'	CONN 'Y'		
1	47	14	BLK	12.0	.16	PIN	M-1	PS-1		M-MOTOR	
2	47	14	RED	12.0	.16	PIN	M-2	PS-2			
3	47	18	BLU	12.0	.16	PIN	B-1	PS-3		B-BRAKE	
4	47	18	BLU	12.0	.16	PIN	B-2	PS-4			

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REVISIONS

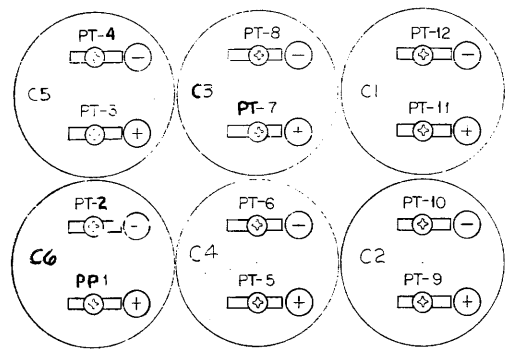
CHK	CHANGE NO.	REV.

TITLE TAPE TRANSPORT ASSY

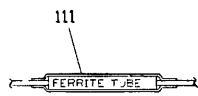
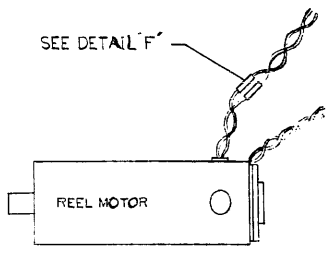
SCALE 1/2 SHEET 2 OF 4

DATE 7009634-0-0 **REV.** S

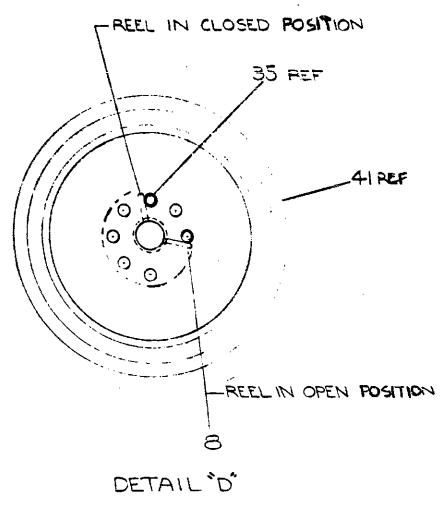
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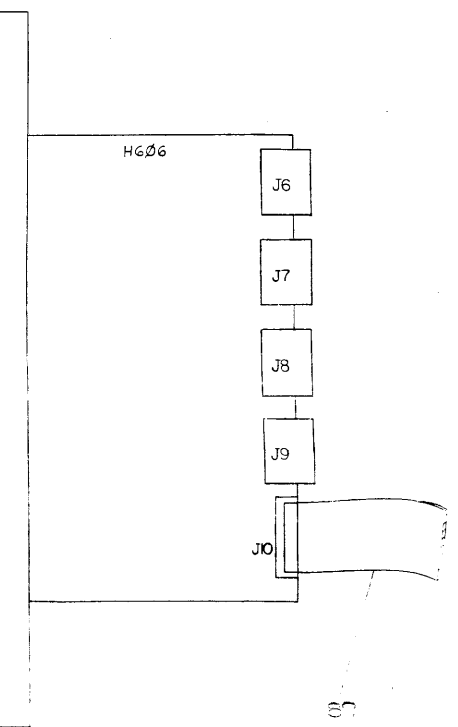
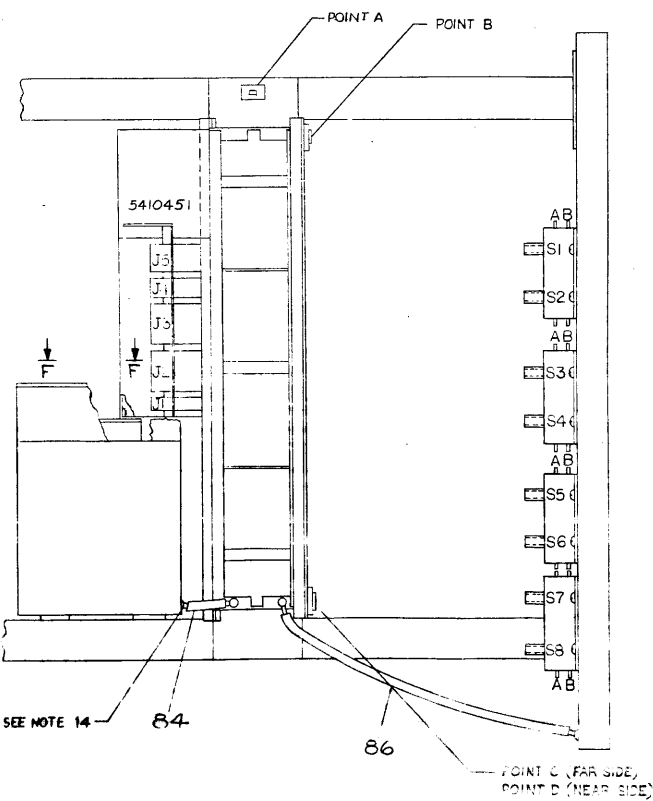
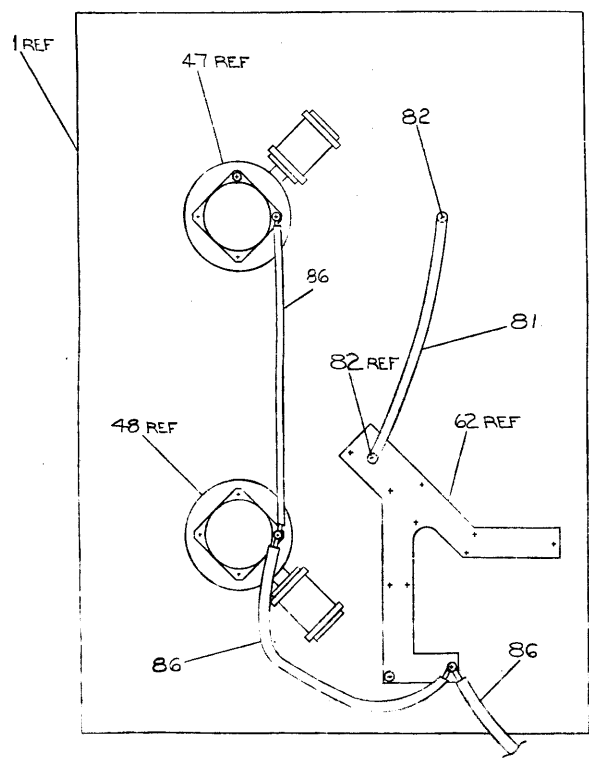
TOP VIEW F-F
SHOWN WITH CAPACITOR
GUARD REMOVED



DETAIL 'F'
COVER WITH SHRINK TUBING
2-1/4 IN. LG. + SHRINK OVER
TUBE.



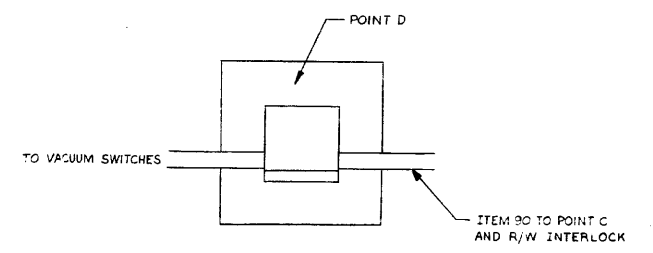
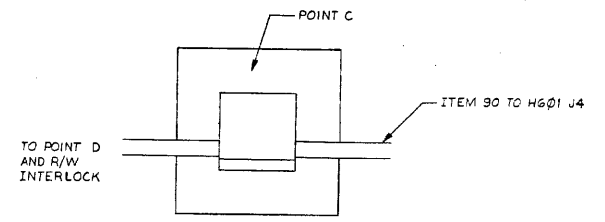
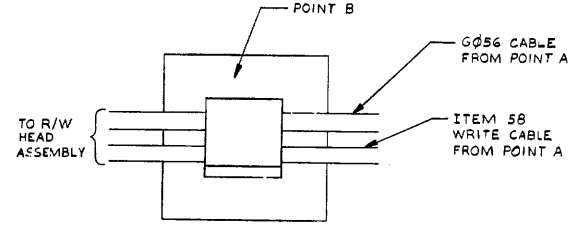
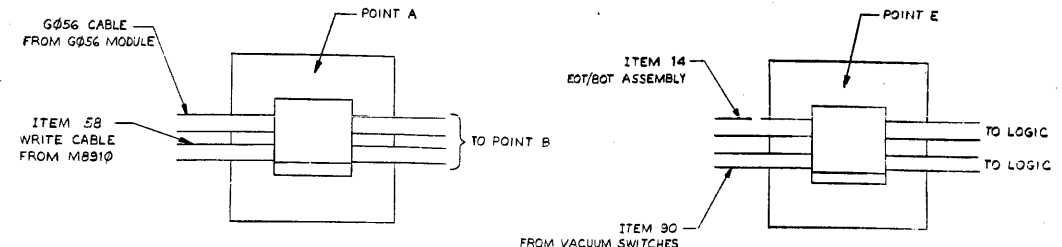
DETAIL 'D'



REV.	CHG. NO.	REV.

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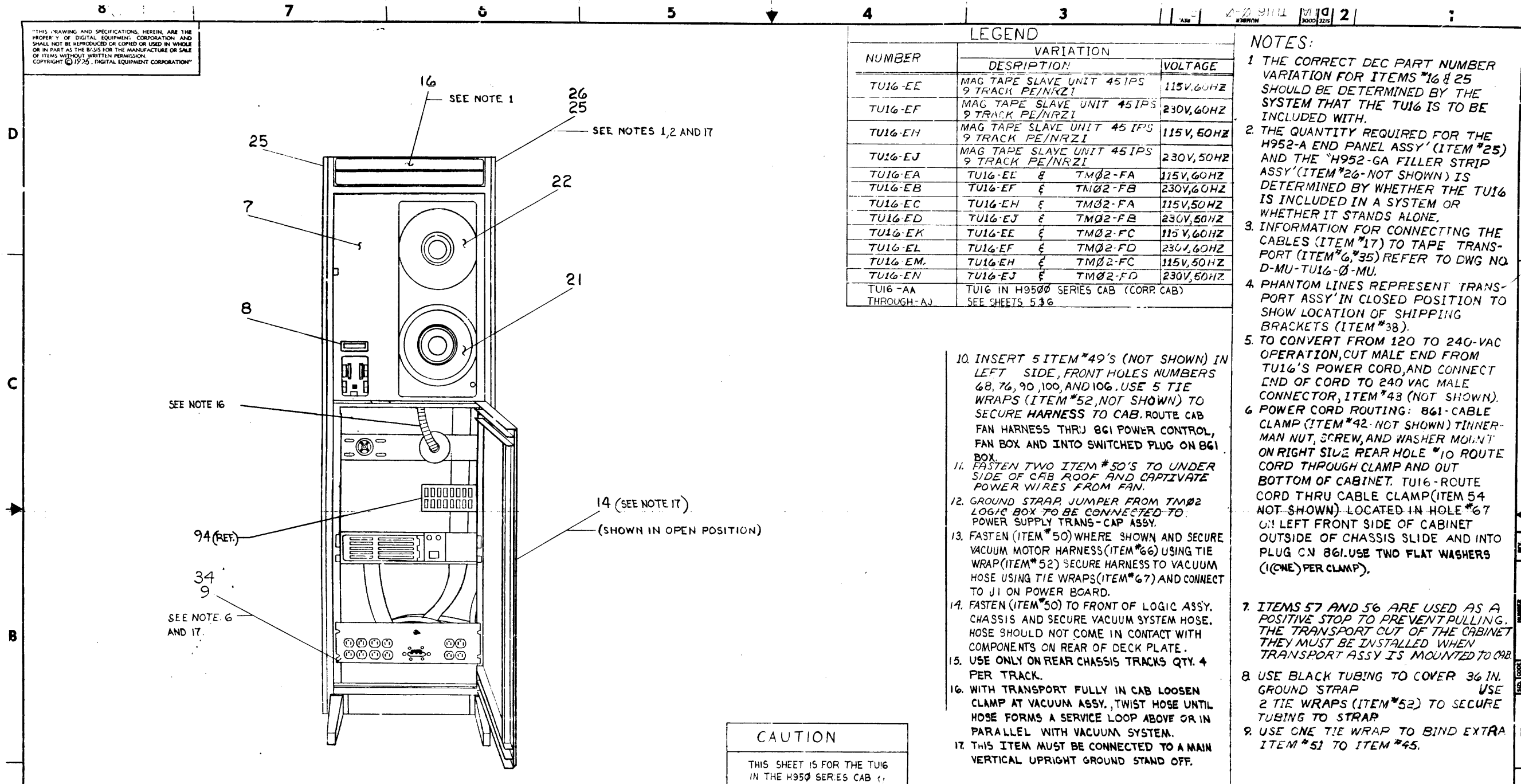
ITEM NO.	DESCRIPTION	FROM		TO		TIE DOWN POINT (SEE NOTE B)	REMARKS
		A/W/G	COLOR	CONNECTION	WITH		
22	WHT/YEL VAC SW HARN - TB-1					VAC SW S1-A	B
18	BLK					S1-B	
22	WHT/GAY					S2-A	D
18	BLK					S2-B	
22	WHT/YEL					LOGIC C02U1	B
22	GRN					LOGIC C02U2	B
22	WHT/YEL					VAC SW S3-A	B
18	BLK					S3-B	
22	WHT/BLU					S4-A	D
18	BLK					S4-B	
22	WHT/BRN					S5-A	D
18	BLK					S5-B	
22	GRN					S6-A	
22	GRN					S6-B	
22	WHT/ORN					S7-A	D
18	BLK					S7-B	
22	GRN					S8-A	
18	BLK					S8-B	
18	BLK					ITEM 92 DEC PLATE - GND	105
						R/W INTERLOCK - J13	C
						HG06 J9	C
14	FLU CAP. HARN - TB-1					CAPACITOR BANK PT-11	
	BLK					PT-12	
	WHT					PT-6	
	BLK					PT-7	
	BLK					PT-4	
	BRN					PT-5	
	BLK					PT-2	
	RED					PT-1	
	BLK					PT-3	
	VIO					PT-5	
	BLK					PT-10	
	YEL					PT-9	
						54-122-2	J3
5	CAP. HARN - P3					MB310	J1
68	CONT. BOX CABLE					54-122-42	J5
69	LOGIC ASSY - P5					54-122-12	J2
89	TRANSFORMER - P2					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
	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	1:1	SHEET	4	OF	5	DIS.	

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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	SEE SHEETS 536	

- NOTES:**
1. THE CORRECT DEC PART NUMBER VARIATION FOR ITEMS *16 & 25 SHOULD BE DETERMINED BY THE SYSTEM THAT THE TU16 IS TO BE INCLUDED WITH.
 2. 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.
 3. INFORMATION FOR CONNECTING THE CABLES (ITEM *17) TO TAPE TRANSPORT (ITEM *6, *35) REFER TO DWG NO. D-MU-TU16-0-MU.
 4. PHANTOM LINES REPRESENT TRANSPORT ASSY IN CLOSED POSITION TO SHOW LOCATION OF SHIPPING BRACKETS (ITEM *38).
 5. 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).
 6. POWER CORD ROUTING: 861-CABLE CLAMP (ITEM *42-NOT SHOWN) INNER-MAN 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(CONE) PER CLAMP).
 7. ITEMS 57 AND 56 ARE USED AS A POSITIVE STOP TO PREVENT PULLING. THE TRANSPORT OUT OF THE CABINET THEY MUST BE INSTALLED WHEN TRANSPORT ASSY IS MOUNTED TO CAB.
 8. USE BLACK TUBING TO COVER 36 IN. GROUND STRAP. USE 2 TIE WRAPS (ITEM *52) TO SECURE TUBING TO STRAP.
 9. USE ONE TIE WRAP TO BIND EXTRA ITEM *51 TO ITEM *45.

10. 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.
11. FASTEN TWO ITEM *50'S TO UNDER SIDE OF CAB ROOF AND CAPTIVATE POWER WIRES FROM FAN.
12. GROUND STRAP, JUMPER FROM TM02 LOGIC BOX TO BE CONNECTED TO POWER SUPPLY TRANS-CAP ASSY.
13. 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.
14. 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.
15. USE ONLY ON REAR CHASSIS TRACKS QTY. 4 PER TRACK.
16. 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.
17. THIS ITEM MUST BE CONNECTED TO A MAIN VERTICAL UPRIGHT GROUND STAND OFF.

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

FRONT VIEW

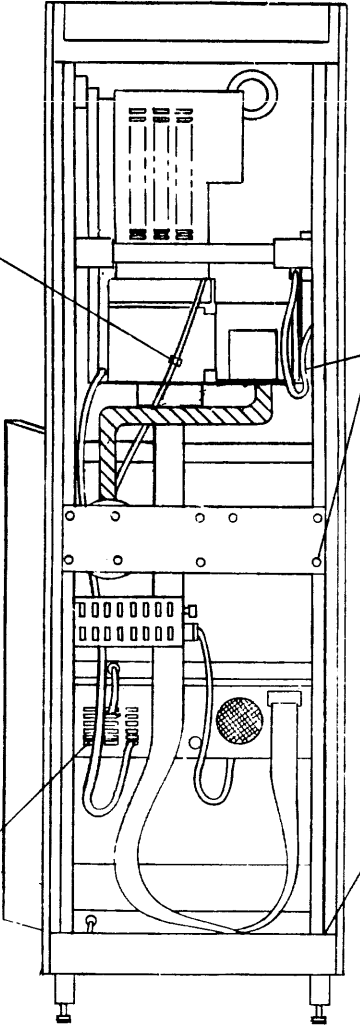
REV.	DATE	BY	CHKD.	DESCRIPTION
1	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
2	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
3	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
4	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
5	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
6	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
7	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING
8	11/15/75	J. HESS	J. HESS	REVISED AND RELEASING

THIRD ANGLE PROJECTION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CLASS OF ACCURACY		NO. DIMENSIONS RANGE INCHES			
SURFACE QUALITY IN		CHECK ONE		OVER 0 TO 0.2		OVER 0.2 TO 0.5	
MICROINCHES		MEDIUM		1.004 1.008		1.012 1.016	
PREFERRED		PREFERRED		1.020 1.024		1.028 1.032	
QUANTITY & VARIATION		DRN. V. DUGGAN 8-21-74		FIRST USED ON		TU16	
REMOVE BURRS AND BREAK SHARP CORNERS		CHK'D D. SCHMIDT 9-24-74		ENGR. R. GARDNER 9-24-74		TITLE	
DO NOT SCALE DWG		PROD. R. GUGGEN 10-2-74		NEXT HIGHER ASSY.		MAG TAPE DRIVE (TU16)	
MATERIAL		SCALE		SIZE CODE		NUMBER	
FINISH		SHEET		DUA		TU16-0-0	
		OF 7		DIST.		REV. P	

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DUAL TU16-0-0 2

50
52
SEE NOTE #13



REAR VIEW

27
28
29
(QTY 4)

91
POWER SUPPLY
SEE DWG. E-UP-7M02

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

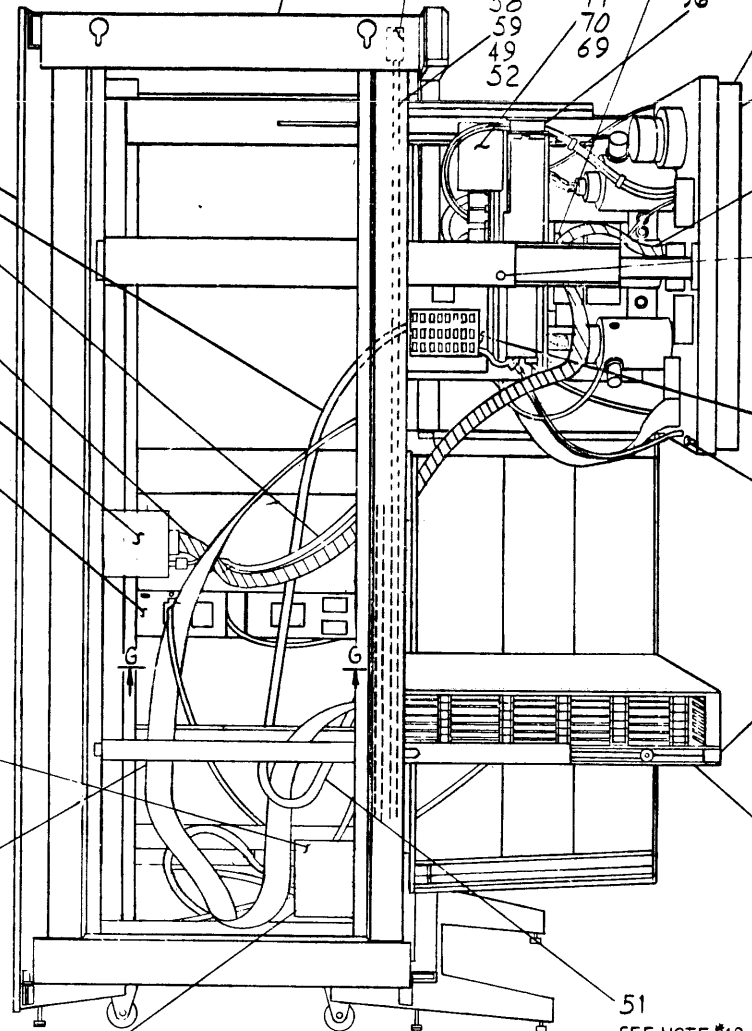
46
53
SEE NOTE #8
SHEET #1

95 REF.
15
66
67 (QTY)

SEE NOTE #6
SHEET #1

17 (QTY 3)

9 REF
34 REF



SIDE VIEW

5
SEE NOTE 10
SEE DETAIL 'C'
VIEW FF

SEE NOTE #14
50
67

65
35
SEE NOTE #5
SHEET #1

SEE DETAIL 'A'

65 (QTY 2)

57
56
SEE NOTE 7

55

SEE DETAIL 'B'

51
SEE NOTE #12
SHEET 1

10
11
12
13

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		

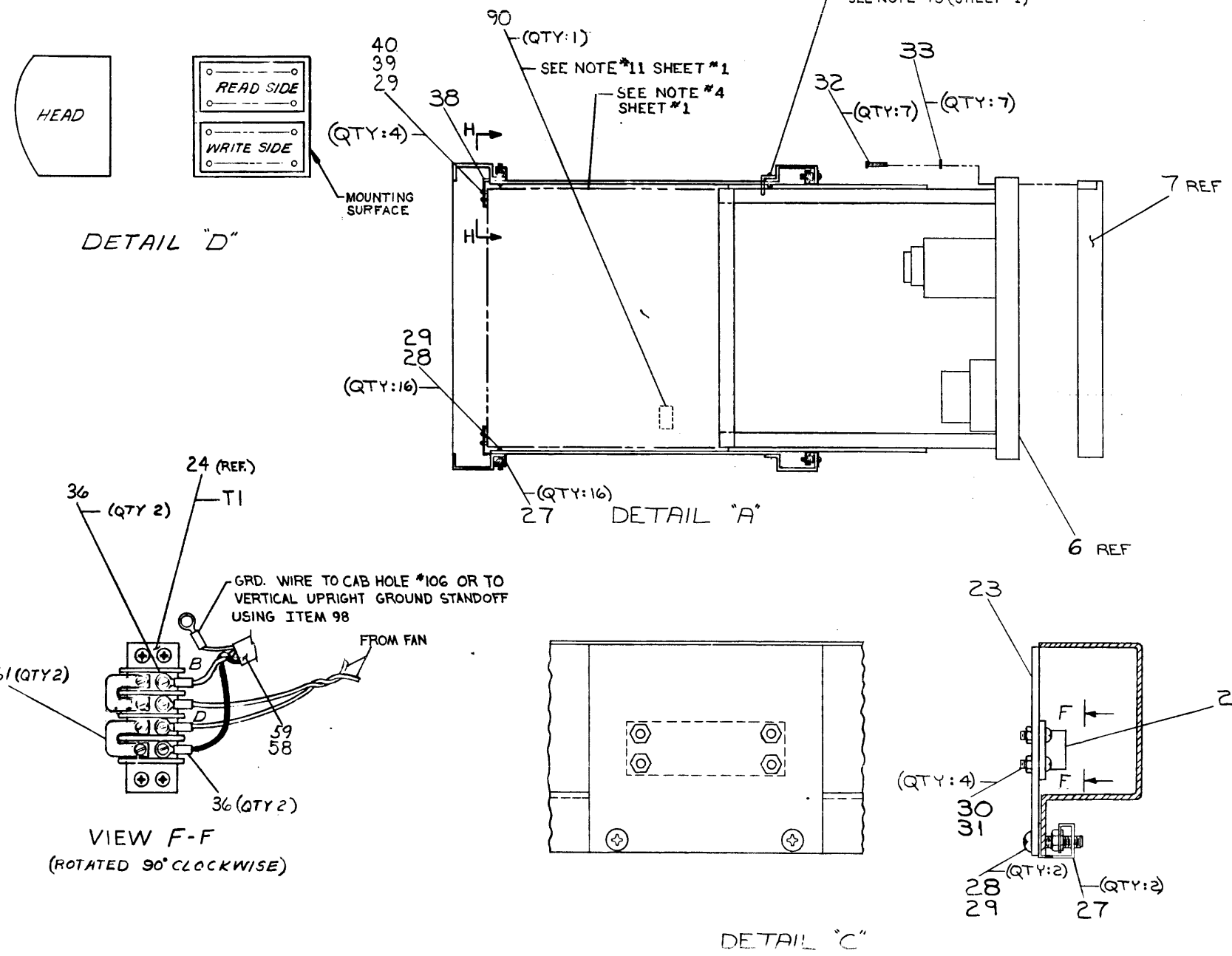
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CABLE CHART						
ITEM NO	DESCRIPTION	FROM	TO	REMARKS		
	COLOR	AWG	CONN WITH	CONN WITH		
54			EG POWER BOX	PLUG		
56					T1-B PT-2	
					T1-D PT-1	
5			FAN-1		T1-A ITEM 36	
			FAN-2		T1-C ITEM 36	
18			READ BOARD		HEAD-READ SIDE	SEE DETAIL 'D'
20			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
FRONT HOLE NUMBERS	REAR HOLE NUMBERS
FRONT: 67	FRONT: 7,103,105,106
REAR: 84,85,86,87	REAR: 7,103,105,106

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



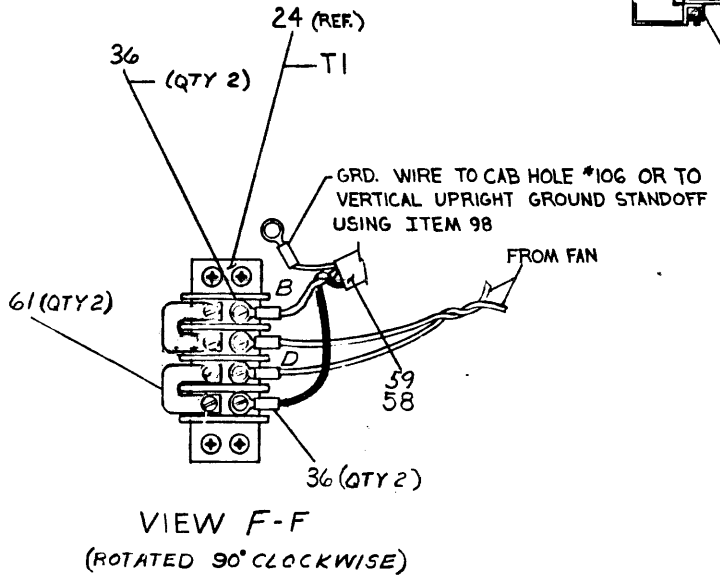
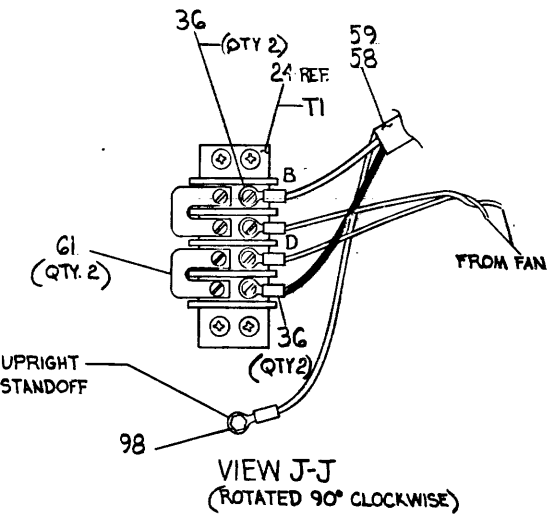
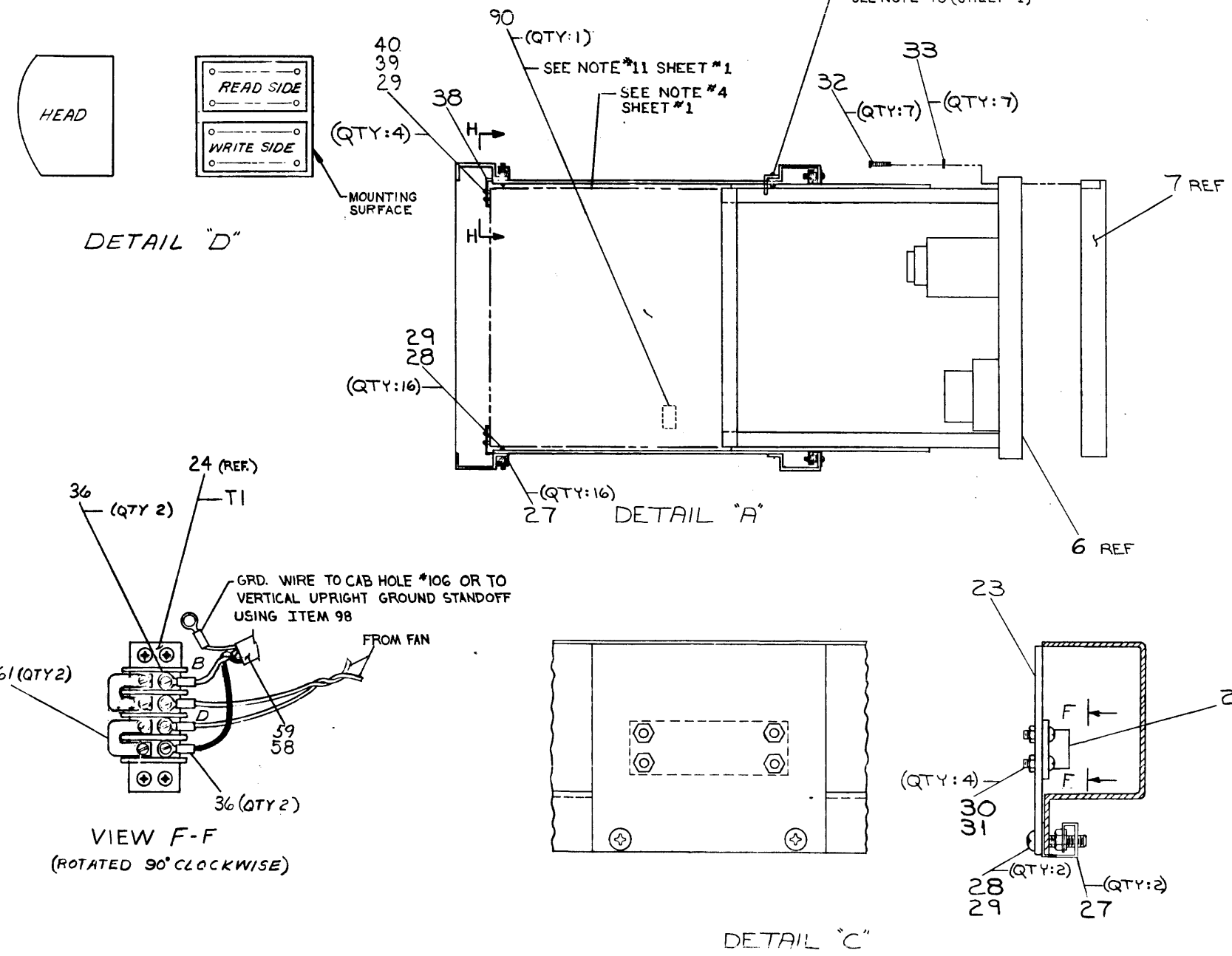
REVISIONS		
CHK	CHANGE NO.	REV

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CABLE CHART						
ITEM NO	COLOR	AWG	FROM	TO	WITH	REMARKS
59			B61 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: 7,103,104,105,106

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

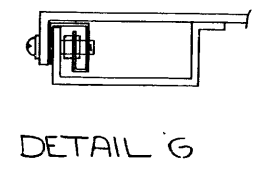
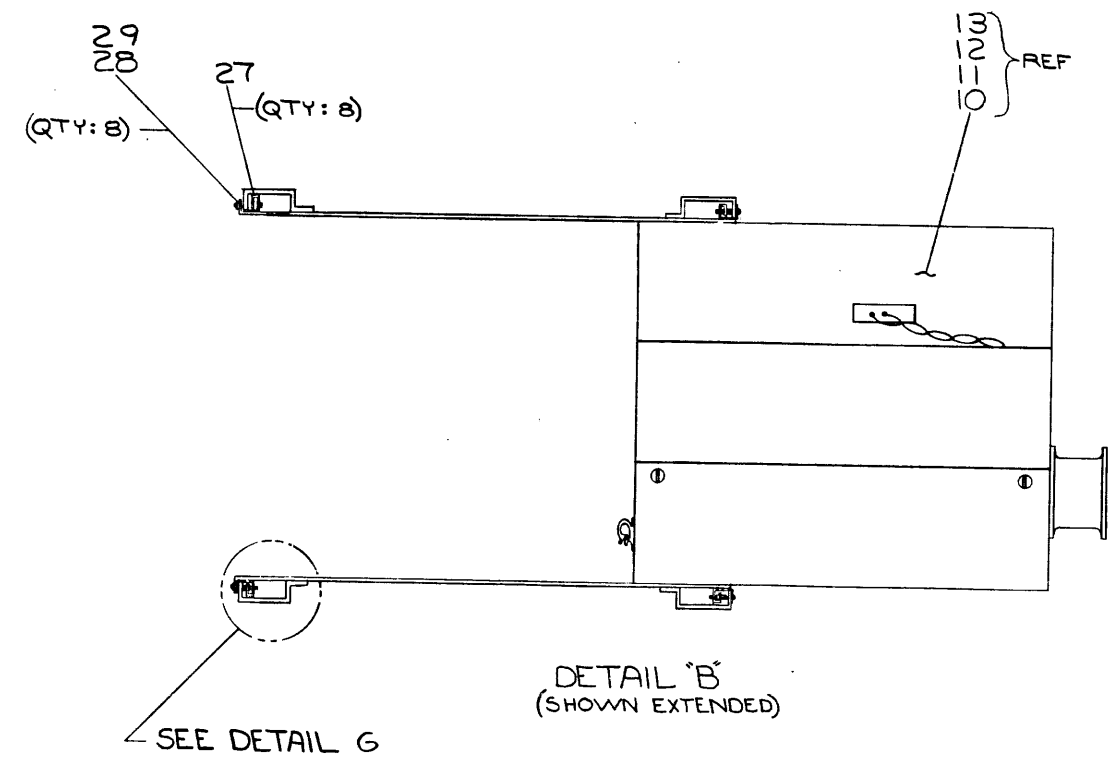
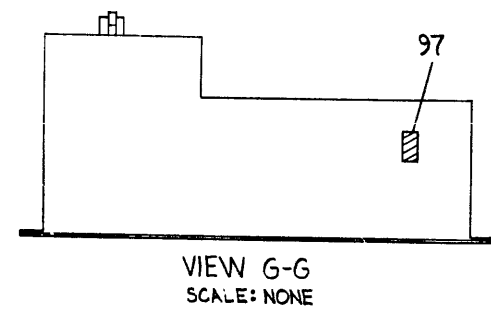
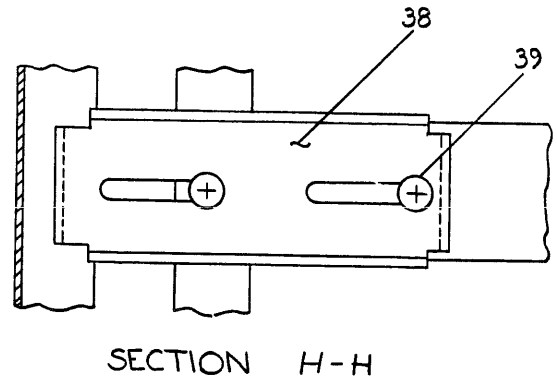
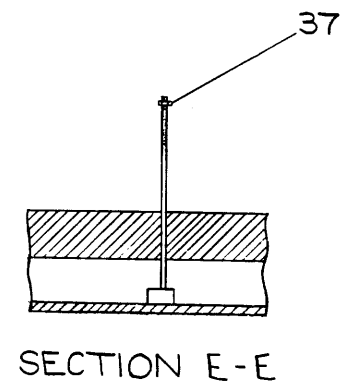


CAUTION
THIS SHEET IS FOR THE TUI6 IN THE H95Ø SERIES CAB

REVISIONS		
CHK	CHANGE NO.	REV

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2
DUA TUI6-0-0
11/16-0-0



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

REVISIONS		
CHK	CHANGE NO	REV

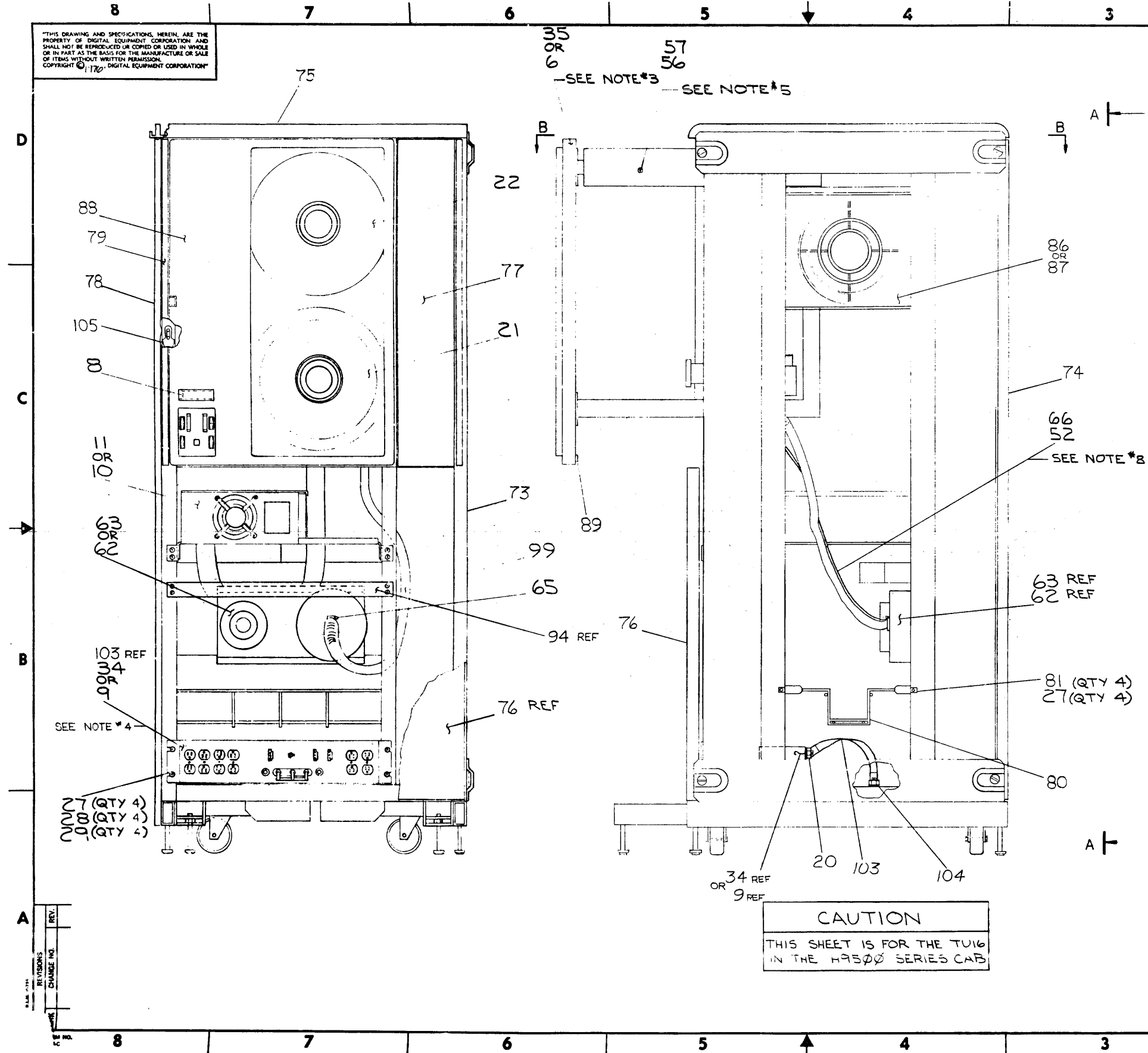
TITLE	SIZE CODE	NUMBER	REV.
MAG TAPE DRIVE (TUI6)	DUA	TUI6-0-0	R.M
SCALE	SHEET	DIST.	
H	4 OF 7		

DEC FORM 137

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NOTES:

1. 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.
2. PHANTOM LINES REPRESENT "TAPE TRANSPORT ASSY (ITEMS*6,*35) IN CLOSED POSITION TO SHOW LOCATION OF "SHIPPING BRACKETS"(ITEM *38)
3. 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).
4. 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.
5. "HEX HED 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.
6. 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.
7. GROUND STRAP JUMPER FROM TM02 LOGIC BOX TO BE CONNECTED TO GROUND LUG AT BOTTOM OF BASE CAB.
8. SECURE "VACUUM MOTOR HARNESS"(ITEM*66) TO "HOSE"(ITEM*99) AND CONNECT HARNESS TO J1 ON THE POWER BOARD.
9. INSTALL "TINNERMAN NUT"(ITEM*27) INTO HOLES #76 & #77 ON THE RIGHT FRONT SIDE OF CAB AND MOUNT "STOP BRACKET"(ITEM*63) AS SHOWN.
10. REMOVE HEX HD. CAP SCREW IN FRAME ASSY. (ITEM *73) TO ASSEMBLE COUNTERWEIGHT LEAD, (ITEM *100) & BRKT COUNTERWEIGHT (ITEM *101) TO FRAME ASSY.



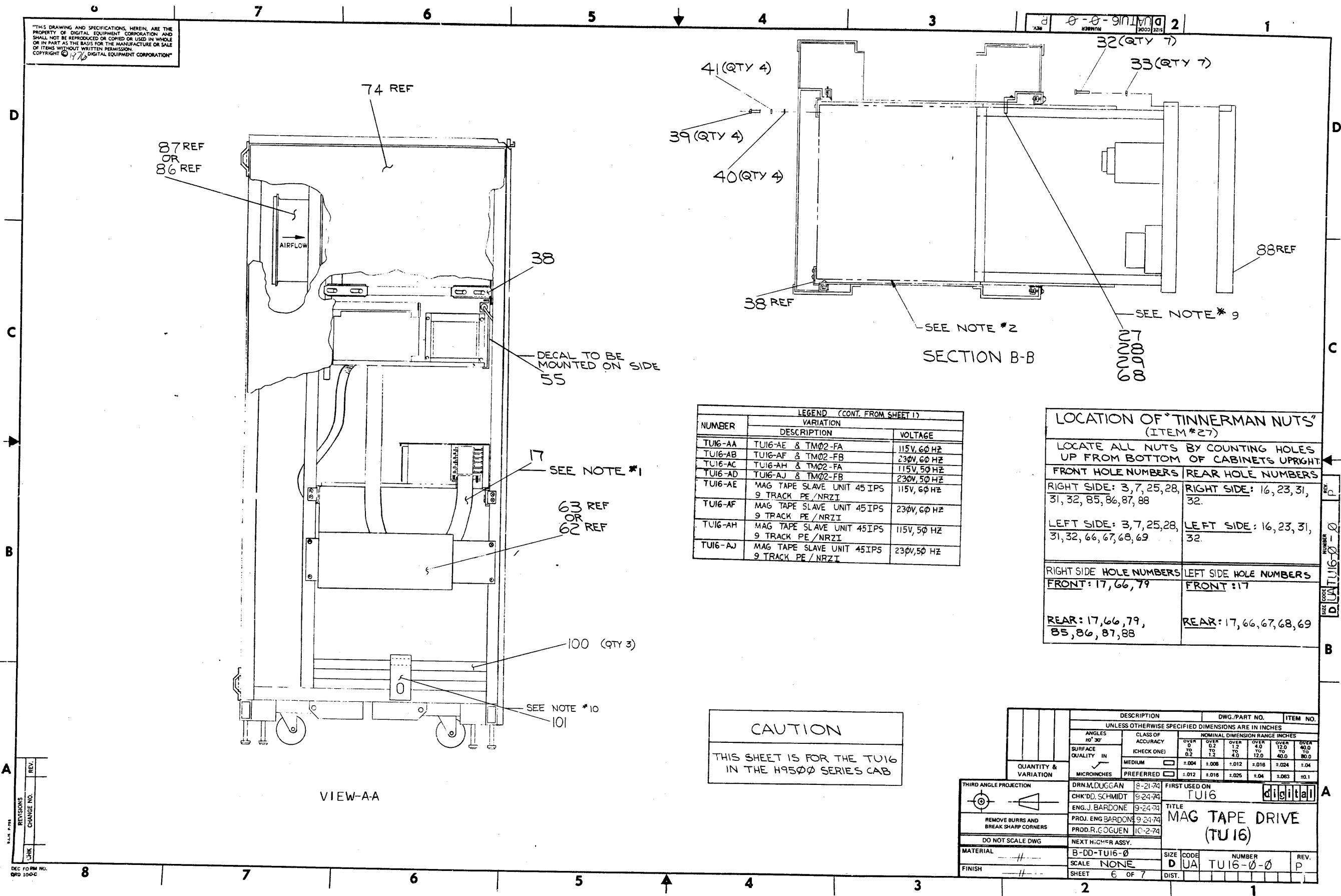
CAUTION
THIS SHEET IS FOR THE TU16
IN THE H9500 SERIES CAB

DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLES 30° 30'	CLASS OF ACCURACY	TYPICAL DIMENSION RANGES (INCHES)			
SURFACE QUALITY	CHECK ONE	0.125 TO 0.5	0.5 TO 1.25	1.25 TO 4.0	4.0 TO 12.0
QUANTITY & VARIATION	MEDIUM	±0.04	±0.08	±0.12	±0.18
THIRD ANGLE PROJECTION	PREFERRED	±0.02	±0.04	±0.06	±0.10
DRN M.D. GLAN	8-21-74	FIRST USED ON		TU16	
CHK'D D.S. HEALT	9-24-74	TITLE			
ENGL. FAN DONE	9-24-74	MAG TAPE DRIVE			
PROJ. ENG. EARL ONE	9-24-74	(TU16)			
PROD. F. COGUEN	10-2-74	NEXT HIGHER ASSY.		NONE	
DO NOT SCALE DWG	MATERIAL				
SCALE		NONE		SIZE CODE	
FINISH		NONE		D UA	
SHEET		5 OF 7		NUMBER	
DIST.		TU16-0-0		REV.	
				P	

DUA TU16-0-0-P

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REV. 2
DATE 8-21-74
BY DRN.M.DUGGAN



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.				
30°	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES						
SURFACE QUALITY IN MICROMETCHES	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
✓ MEDIUM	✓	±.004	±.008	±.012	±.016	±.024	±.04
✓ PREFERRED		±.012	±.016	±.025	±.04	±.063	±0.1
THIRD ANGLE PROJECTION	DRN.M.DUGGAN 8-21-74	FIRST USED ON	TU16				
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'DD.SCHMIDT 9-24-74	TITLE					
DO NOT SCALE DWG	ENG.J.BARDONE 9-24-74	MAG TAPE DRIVE (TU16)					
MATERIAL	PROJ.ENG.BARDONE 9-24-74	SIZE	CODE				
FINISH	PROD.R.GOGUEN 10-2-74	D	UA				
	NEXT HIGHER ASSY.	NUMBER	REV.				
	B-DD-TU16-0	6 OF 7	P				

REV.	CHANGE NO.

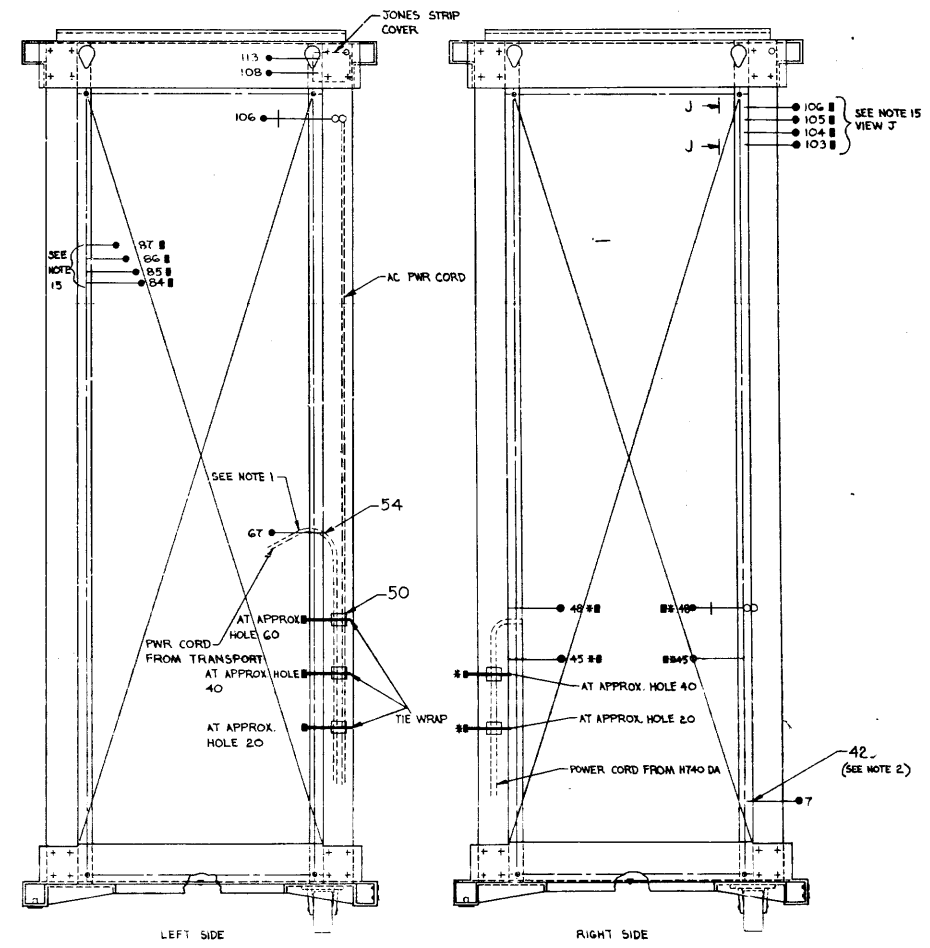
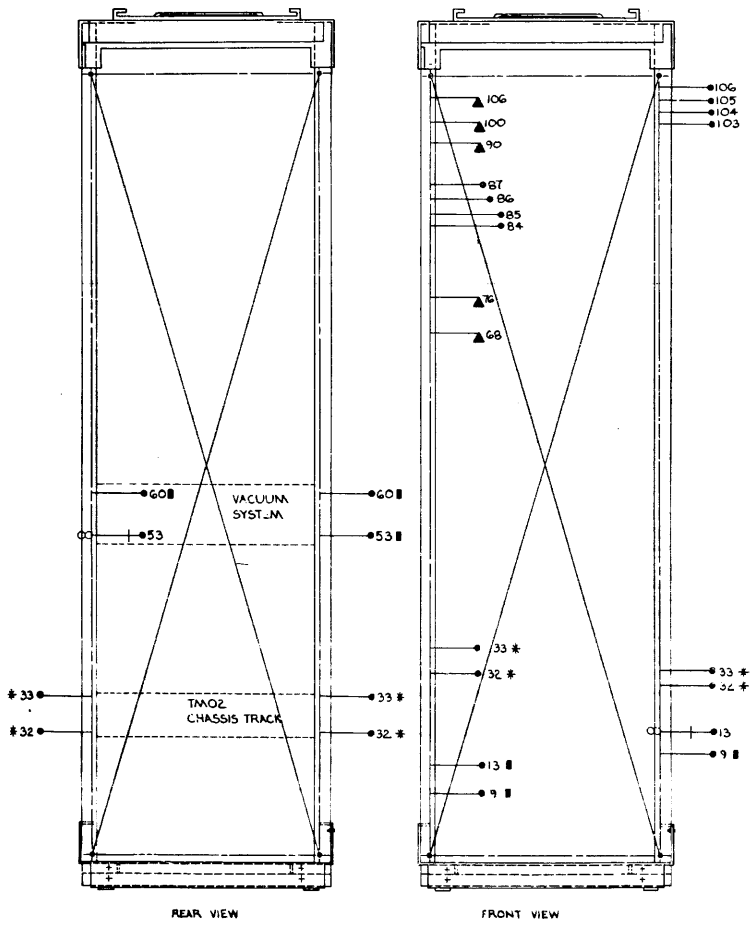
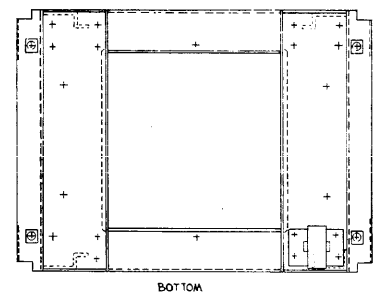
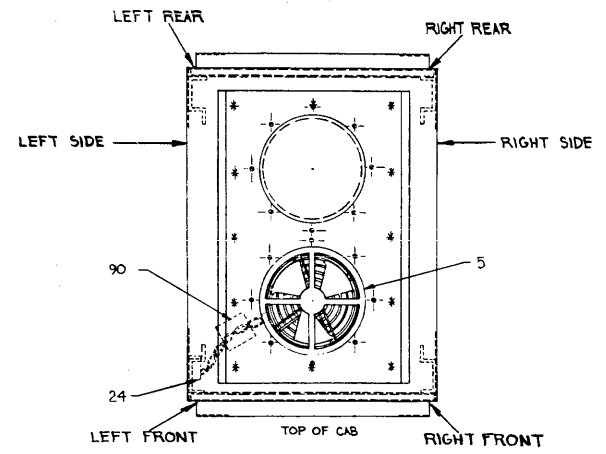
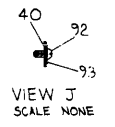
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HARDWARE AID PRINT

NOTES:

1. USE .375 CLAMP FOR POWER CORD FROM TRANSPORT 90T0B3, 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 90T8GT 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 0-0-TUI6-DUA