

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

DRAWING DIRECTORY
LOGIC AND WRITE BOARD
CLOCK AND TEST LOGIC
SLAVE TEST FUNCTION GEN.
POWER BOARD
READ CHAN. AMP/ANA. & DIA
D.S. POWER SUPPLY
GENERAL PURPOSE CARD (E & F)
GENERAL PURPOSE CARD (A & B)
GENERAL PURPOSE CARD (E & F)
DATA DRIVER
DATA DRIVER
GENERAL PURPOSE CARD (A & B)
CONTROL BOX
WIRED ASSY

WIRE LIST
MODULE UTILIZATION
MASS BUS TRANSCIEVER
TAPE TRANSPORT ASSY
MAGTAPE DRIVE

SEQUENCE SHEET 1 ONLY SEQUENCE

B-DD-TU16- β
D-CS-M891 β - β -1
D-CS-M8911- β -1
D-CS-M8912- β -1
D-CS-H6 β 6- β -1
D-CS-G β 56- β -1
D-CS-5410451-0-1
D-CS-M9 β β 1-YA-1
D-CS-M9 β β 1-YB-1
D-CS-M9 β β 1-YC-1
D-CS-M8913- β -1
D-CS-M8913-YA-1
D-CS-M9 β β 1- β -1
D-CS-7009637-0-1
E-AD-7009635-0-0

K-WL-TU16- β -WL
D-MU-TU16- β -MU
D-BS-TU16- β -2
E-AD-7009634-0-0
D-UA-TU16-0-0

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-EE & TM02-FA			
TU16-EB	TU16-EF & TM02-FB			
TU16-EC	TU16-EH & TM02-FA			
TU16-ED	TU16-EJ & TM02-FB			
TU16-EK	TU16-EE & TM02-FC			
TU16-EL	TU16-EF & TM02-FD			
TU16-EM	TU16-EH & TM02-FC			
TU16-EN	TU16-EJ & TM02-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 & TM02-FA			
TU16-AB	TU16-AF & TM02-FB			
TU16-AC	TU16-AH & TM02-FA			
TU16-AD	TU16-AJ & TM02-FB			

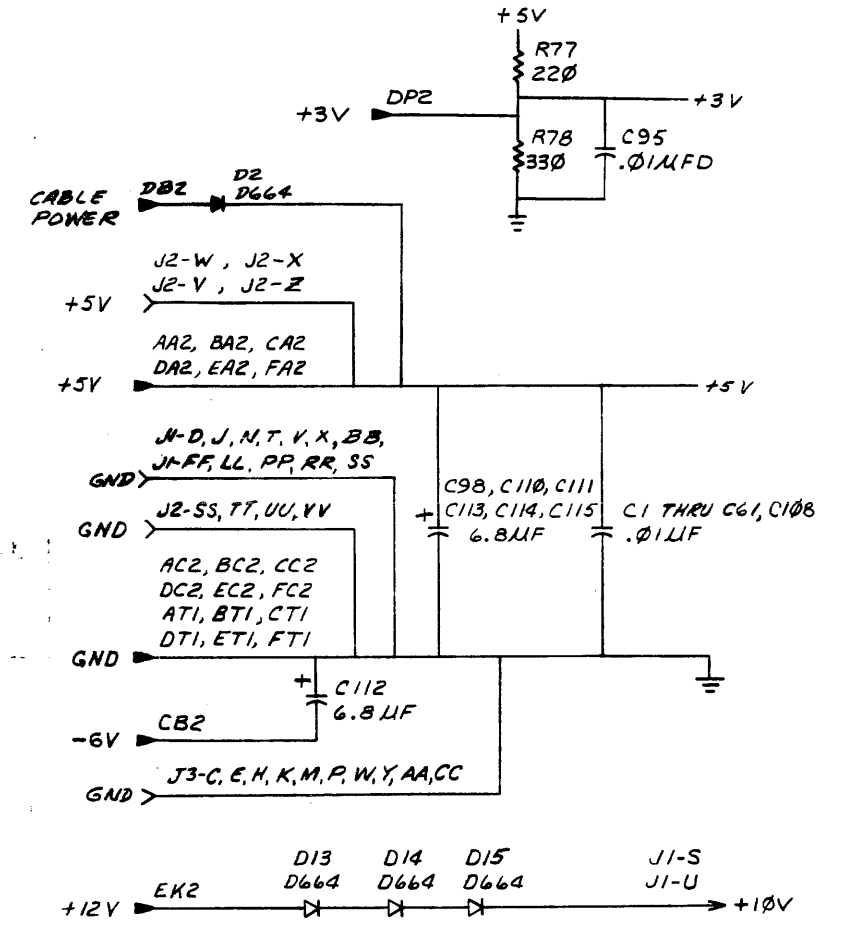
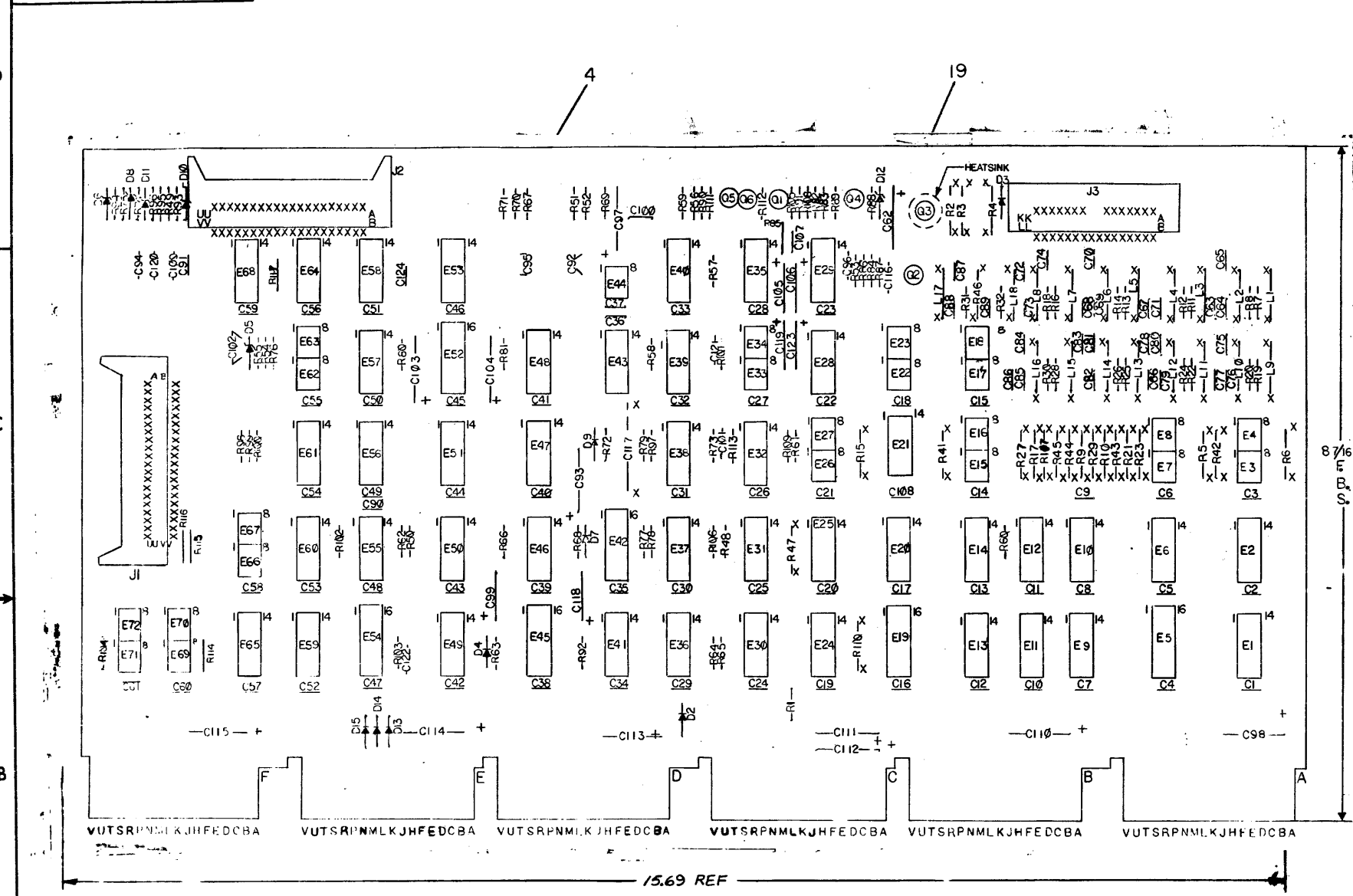
DRC 16(13251-1062-1A-R972

REVISIONS		REV	CHG. NO.
DATE	TU16-3	A	
	TU16-5	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	
	7006743-2	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	

USED ON OPTION/MODEL	DATE	TITLE
	8/27/74	MAGNETIC TAPE UNIT
PROJ ENG.	DATE	
	8/29/74	
PROD.	DATE	SIZE CODE NUMBER REV
		B DD TU16- β 1Z
FIELD SERV.	DATE	DIST
	7/3/74	

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NOTES:



IC TYPE	QTY	DESCRIPTION
8640	1	B
75452	4	B
74123	8	16
8266	8	16
7473	11	4
384	1	B
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

REV	DATE	DESCRIPTION
1	7-29-75	J. HESS
2	8-2-75	J. HESS
3	8-2-75	J. HESS
4	8-2-75	J. HESS
5	8-2-75	J. HESS
6	8-2-75	J. HESS
7	8-2-75	J. HESS
8	8-2-75	J. HESS
9	8-2-75	J. HESS
10	8-2-75	J. HESS
11	8-2-75	J. HESS
12	8-2-75	J. HESS
13	8-2-75	J. HESS
14	8-2-75	J. HESS
15	8-2-75	J. HESS
16	8-2-75	J. HESS
17	8-2-75	J. HESS
18	8-2-75	J. HESS
19	8-2-75	J. HESS
20	8-2-75	J. HESS

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

DEC NO	EIA NO.	DEC NO.	EIA NO.

DATE	BY	DESCRIPTION
11-9-74	J. HESS	DRN
12/10/74	J. HESS	CHKD
1/10/75	J. HESS	ENG
2/10/75	J. HESS	PROJ ENGR
3/10/75	J. HESS	PROD
4/10/75	J. HESS	TEST
5/10/75	J. HESS	SHIP
6/10/75	J. HESS	REWORK
7/10/75	J. HESS	REWORK
8/10/75	J. HESS	REWORK
9/10/75	J. HESS	REWORK
10/10/75	J. HESS	REWORK
11/10/75	J. HESS	REWORK
12/10/75	J. HESS	REWORK

SCALE	SHEET	OF	TOTAL
	1	9	

SIZE CODE	NUMBER	REV.
D	M8910-0-1	K

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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-B-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M8910-B-5	2
REF		MODULE ECO HISTORY	B-MH-M8910-B-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, C95, 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, C96, 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, 107, 116	CAP 5000PF 100V 20% DISC	1001765	16
1	C90	CAP 470.PF 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, R80, R90, R93-R95, R102, R104, R106, R107, R111, R113, R117	RES 1K 1/4W 5%	1900365	30
2	R86, R108	RES 1.8K 1/4W 5%	1300898	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	R88, 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

SEE NOTE 1

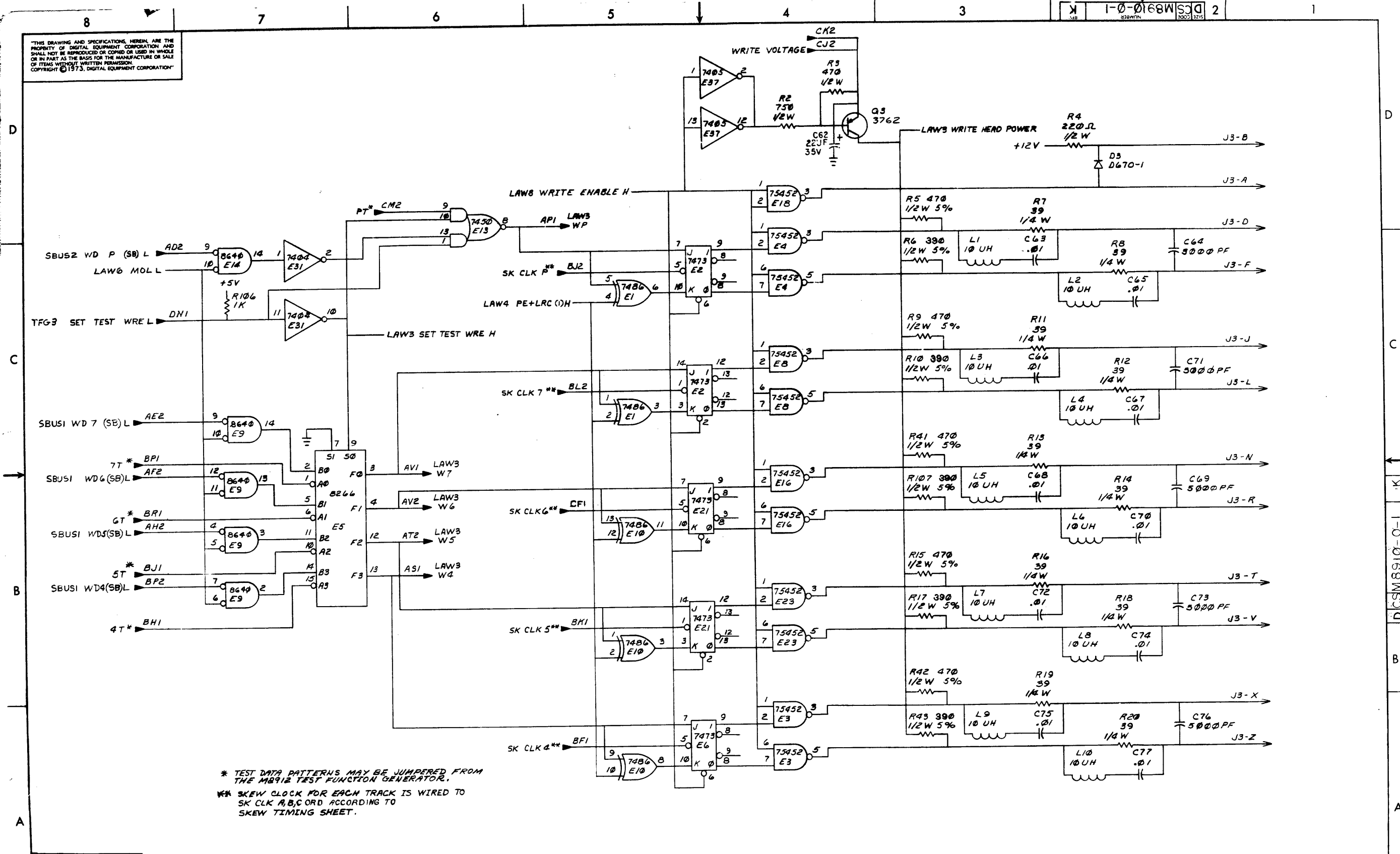
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
2	Q1, Q2	TRANSISTOR 3659B	1502762	46
3	Q4, Q5, Q6	TRANSISTOR 6591B	1509338	47
1	Q3	TRANSISTOR 3762	1509649	48
18	L1 THRU L18	INDUCTOR, FIXED, 10UH, 10%	1609477	49
7	E11, E51, E53, E59, E60, E65, E47	I.C. 7474	1905547	50
4	E28, E41, E58, E60	I.C. 7488	1905575	51
1	E55	I.C. 7410	1905576	52
1	E64	I.C. 7420	1905577	53
1	E44	I.C. 75432	1910645-00	54
5	E2, E6, E20, E21, E25	I.C. 7473	1905587	55
1	E61	I.C. 7481	1905590	56
2	E43, E57	I.C. 7482	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, E58	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, E40E15, E10E17, E18E22, E23E26, E27, (E33, E34)(E62, E63)(E44, E67)(E69, E70)(E71, E72)	I.C. 75452	1910645-01	67
1	E50	I.C. 7427	1910878	68
6	E9, E4, E30, E36, E48, E56	I.C. 8640	1911469	69
1	E13	I.C. 7450	1905680	70
1		HANDLE ASSY	1210711-02	71
12		EYELET	9006782	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

REVISIONS		
CHK	CHANGE NO	REV

TITLE LOGIC AND WRITE BOARD (LAW2) SIZE CODE DCS NUMBER M8910-0-1 RE K
SCALE SHEET 2 OF 9 DIST.

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1-0-0168WSD 2

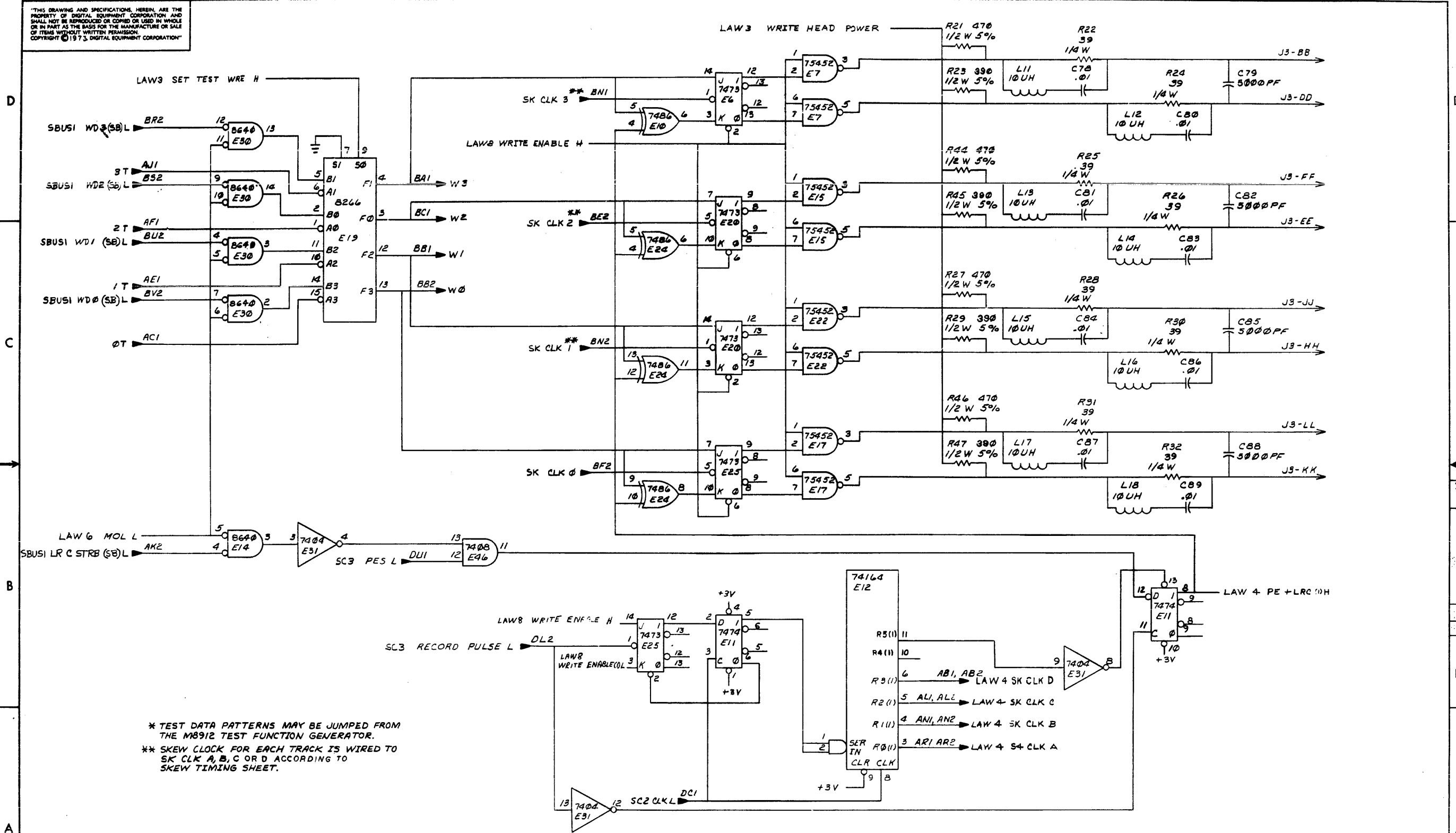


* TEST DATA PATTERNS MAY BE JUMPED FROM THE M8912 TEST FUNCTION GENERATOR.
 ** SKEW CLOCK FOR EACH TRACK IS WIRED TO SK CLK A,B,C OR D ACCORDING TO SKEW TIMING SHEET.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		LOGIC AND WRITE BOARD (LAW3)	SIZE CODE	D	NUMBER	CSM8910-0-1	R.V.	K
SCALE		1:1	SHEET	3	OF	9	DIST.	

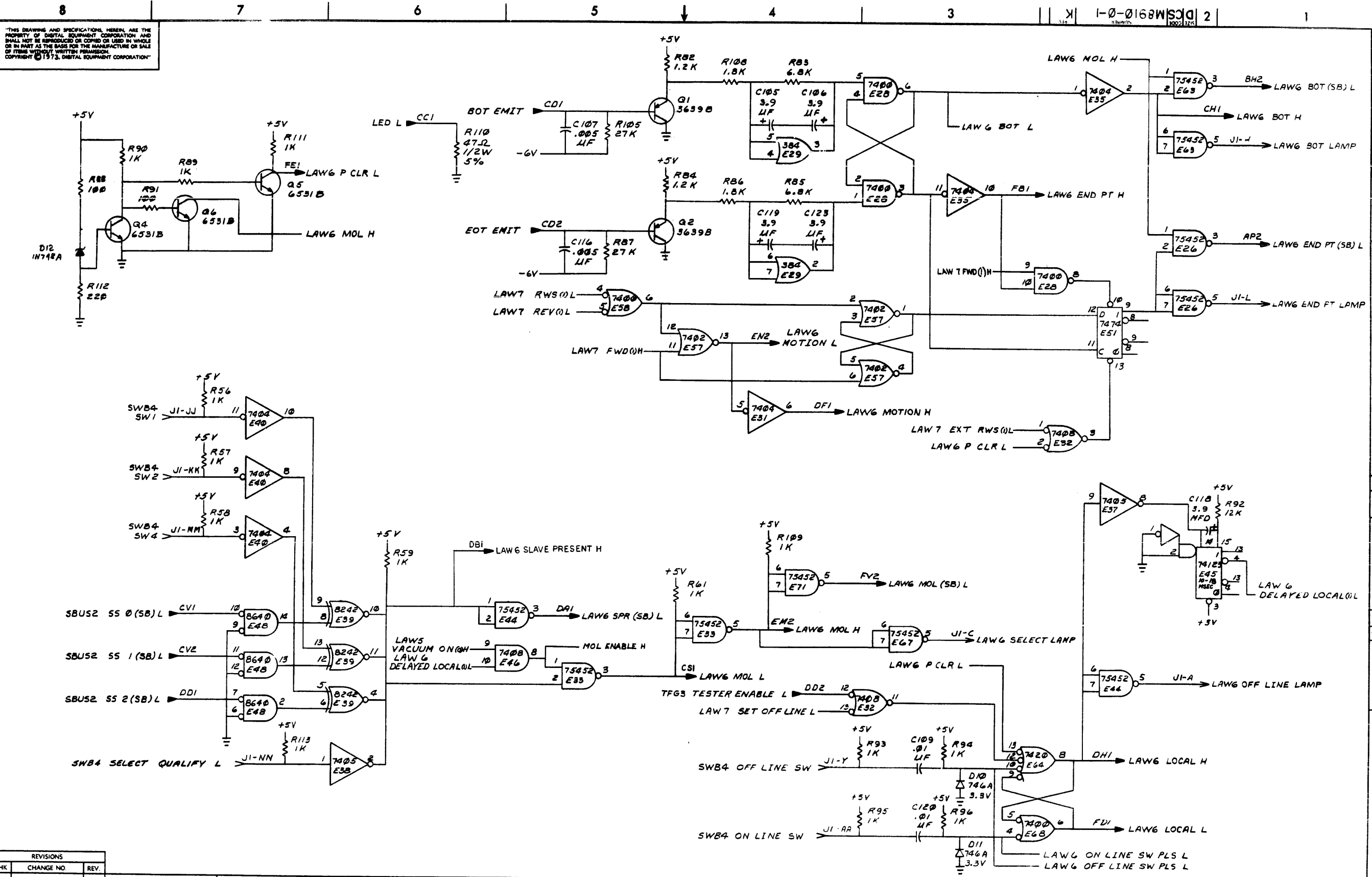
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* TEST DATA PATTERNS MAY BE JUMPED FROM THE M8912 TEST FUNCTION GENERATOR.
 ** SKEW CLOCK FOR EACH TRACK IS WIRED TO SK CLK A, B, C OR D ACCORDING TO SKEW TIMING SHEET.

REVISIONS		
CHK	CHANGE NO	REV.

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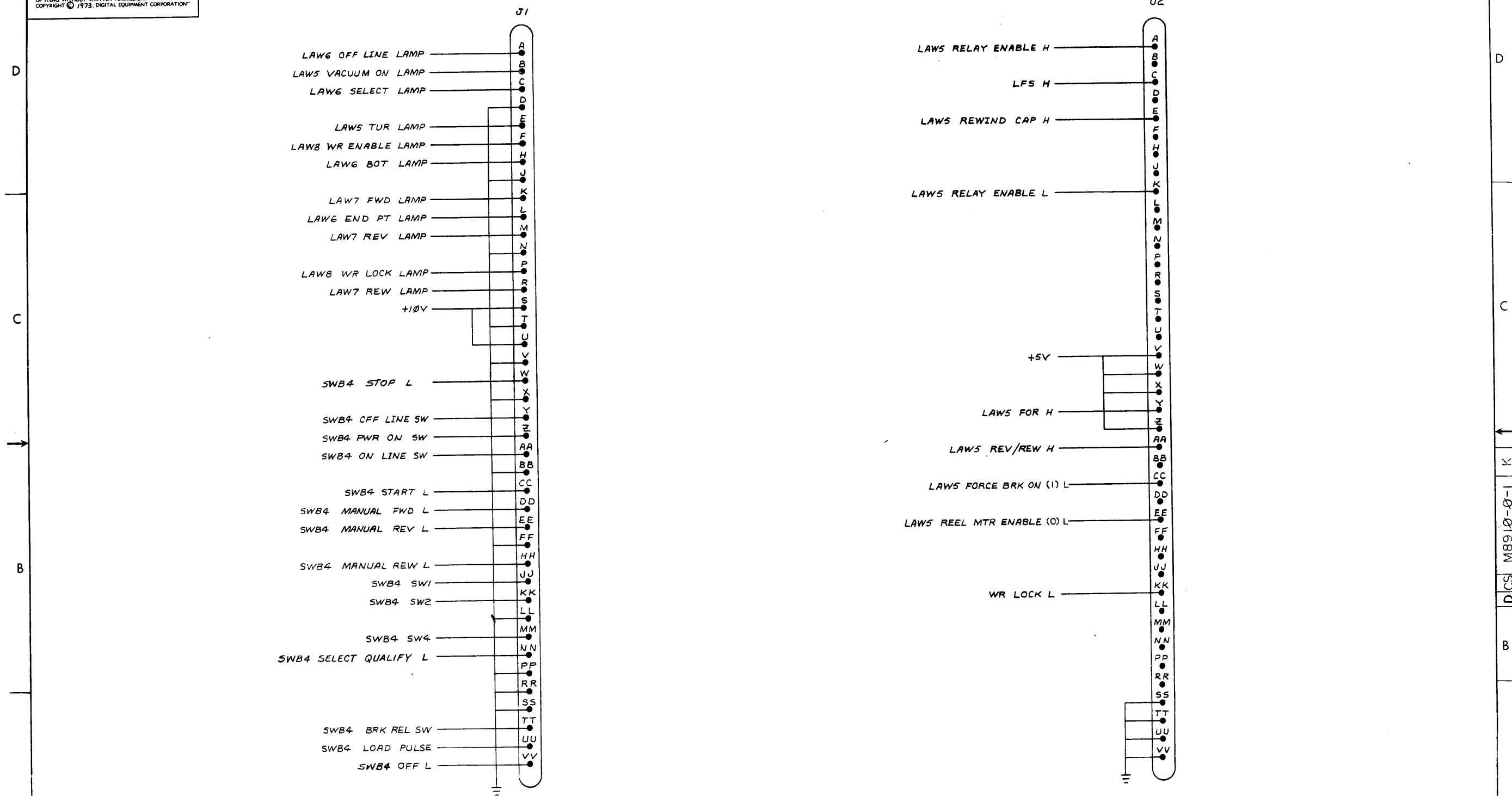


REVISIONS		
CHK	CHANGE NO.	REV.

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SCALE	1/1	SHEET	6	OF	9	DIST.	

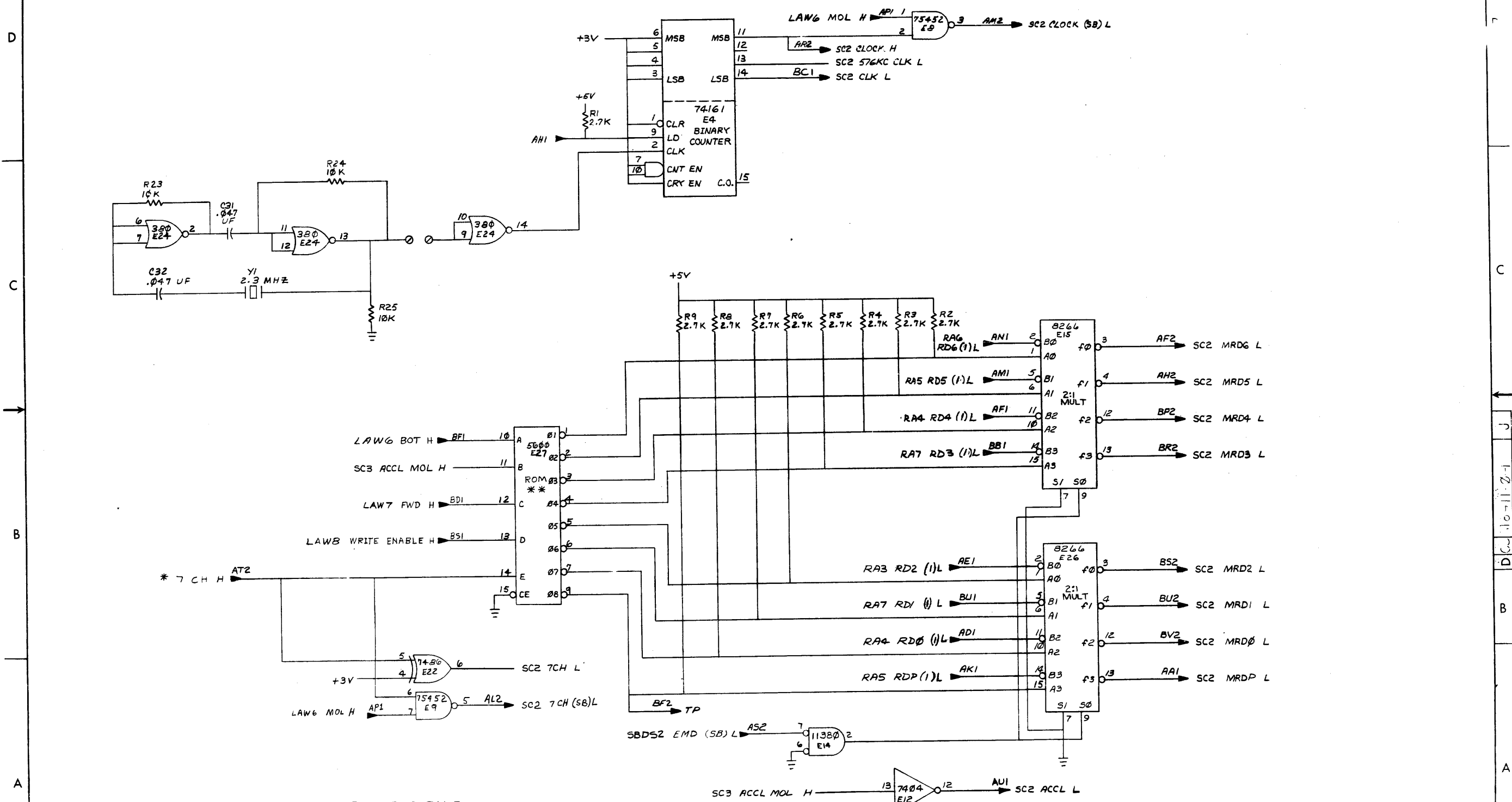
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SWITCH BOX CONNECTOR



REVISIONS		
CHK	CHANGE NO	REV

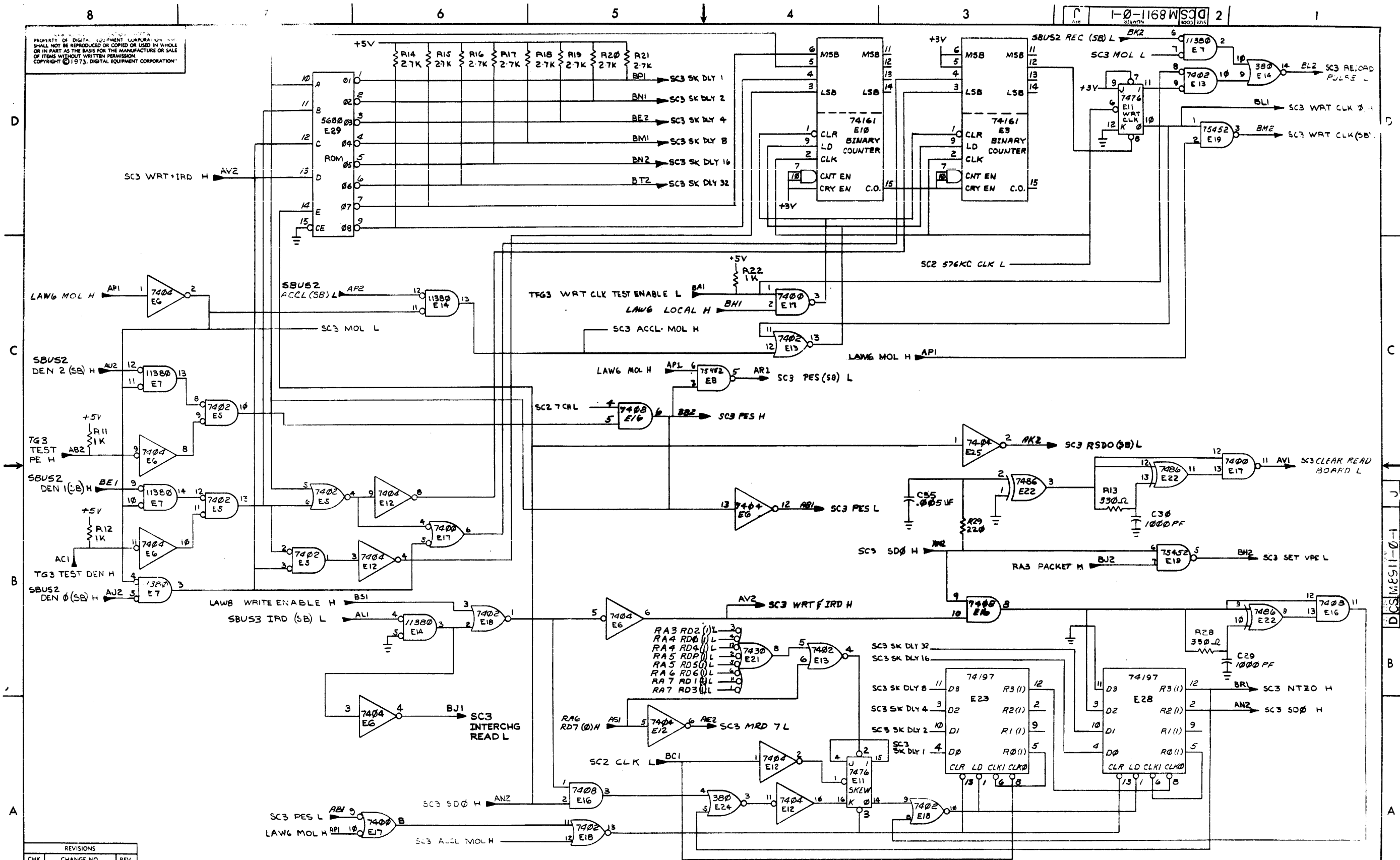
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* SIGNALS ORIGINATE ON BACKPANEL
 ** SEE PARTS LIST FOR CORRECT ROM PART NUMBER

REVISIONS		
CHK	CHANGE NO	REV

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REVISIONS		
CHK	CHANGE NO	REV

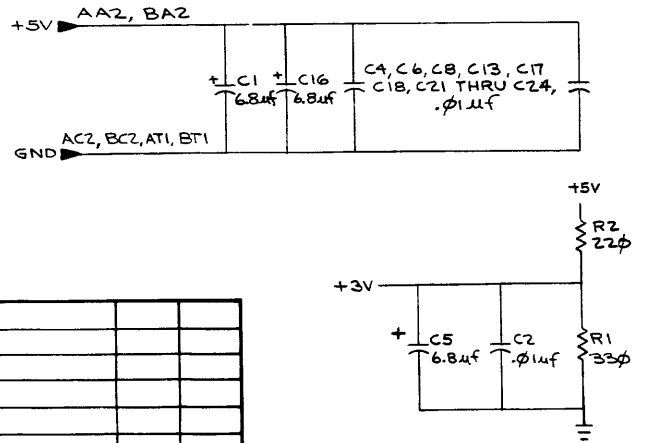
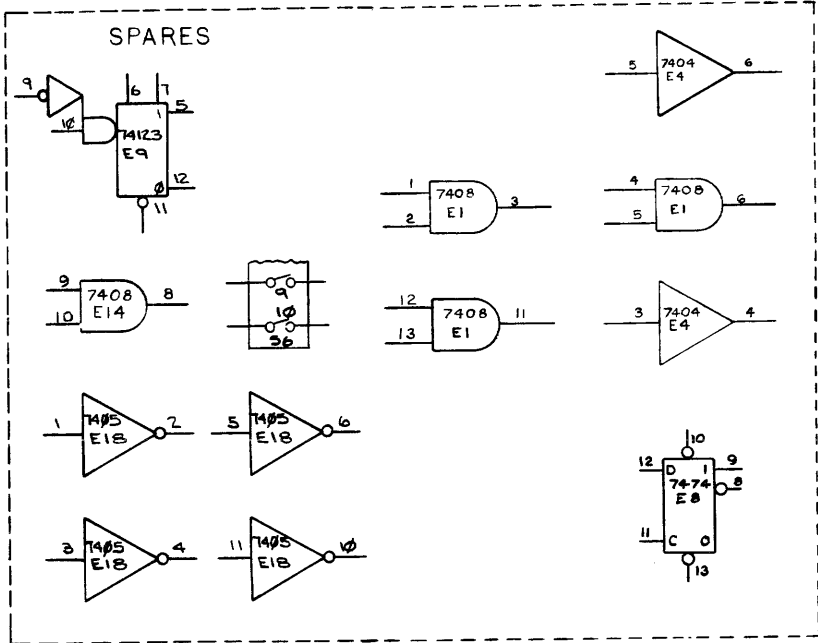
TITLE	SLAVE CLK MOTION DLY (SC3)	SIZE CODE	D CS	NUMBER	M8411-0-1	REV.	J
SCALE		SHEET	30F3	DIST.			

DCS M8411-0-1

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NOTES:

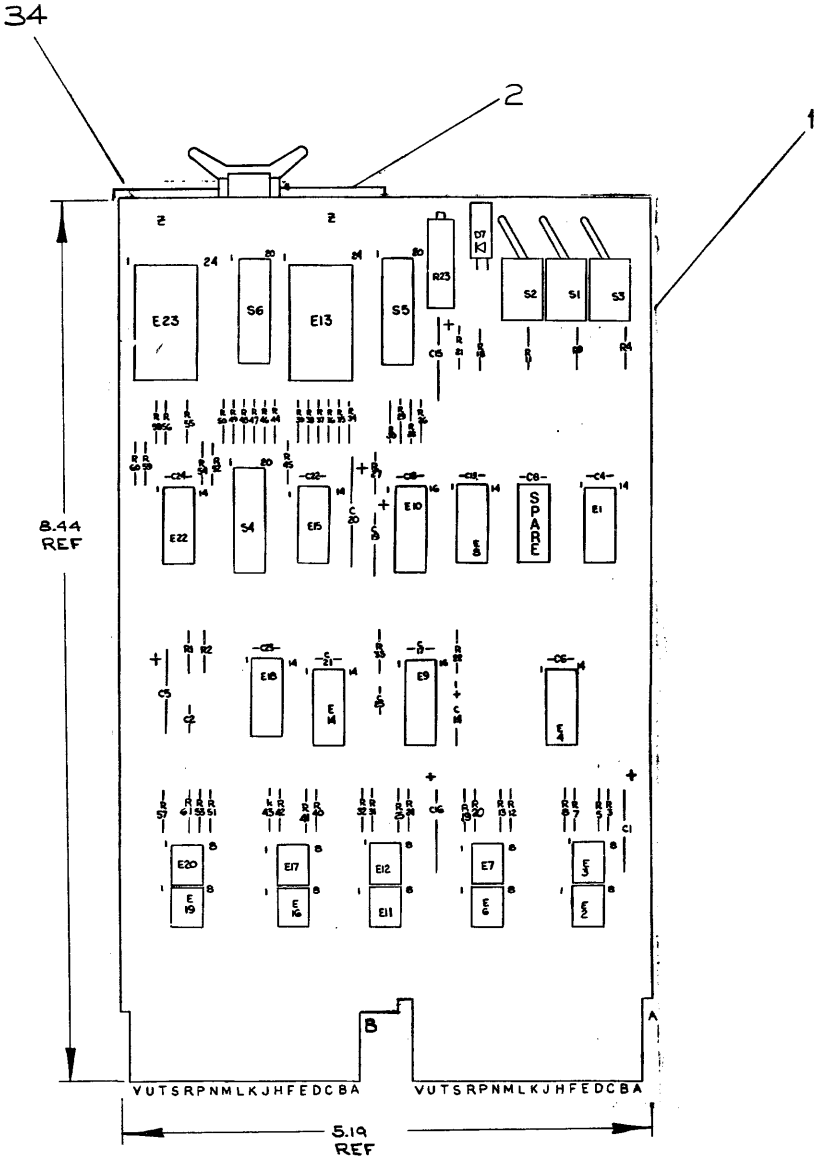
DASH VAR	DESCRIPTION
-01	TWO PARTS IN ONE 16 PIN CARRIER



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-00-M8912-0-4	REF	
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8912-0-5	REF	
REF	MODULE ECO HISTORY	B-MH-M8912-0-6	REF	
1	ETCHED CIRCUIT BOARD	5010674	1	
1	HANDLE, FLIP-CHIP, MAGENTA	9008337-06	2	
			3	
1	C25	CAP 470 P F 100 V 5% D.M.	1000024	4
2	CH, C19	CAP 3.9 u F 100 V 10% TANT	1000064	5
11	C2, C4, C7, C18, C21-24, C6, C8, C13	CAP .01 u F 100 V 20% DISC	1001610-01	6
1	C15	CAP 10 u F 20 V 10% TANT	1004813	7
1	C20	CAP 100 u F 20 V 10% TANT	1004815	8
3	C1, C5, C16	CAP 6.8 u F 35 V 10% TANT	1005306	9
			10	
1	D7	DIODE, LIGHT EMITTING	1110324	11
1	R33	RES 150 1/4 W 5%	1300250	12
1	R2	RES 220 1/4 W 5%	1300271	13
1	R1	RES 330 1/4 W 5%	1300295	14
5	R4, R8, R11, R10, R61	RES 1K 1/4 W 5%	1300365	15
43	R3, R5, R7, R9, R12, R13, R14 THRU R21, R24, R25, R26, R28 THRU R30, R34 THRU R39, R41 THRU R60	RES 4.7K 1/4 W 5%	1300447	16
1	R22	RES 10K 1/4 W 5%	1300479	17
1	R27	RES 15K 1/4 W 5%	1300496	18
1	R18	RES 270 1/4 W 5%	1301972	19
1	R23	RES 50K 3/4 W 10% 76 PR	1309143-13	20
			21	
			22	
			23	
1	E4	IC 7404	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	1910645-01*	28
2	E13, E23	IC 74199	1910842	29
1	E8	IC 7474	1905347	30
1	E18	IC 7405	1909930	31
3	S1, S2, S3	SWITCH, TOGGLE	1210209-00	32
3	S4, S5, S6	SWITCH, DIP OF 10	1211164-06	33
2		EYELET	9006732	34

* NOTE

FIRST USED ON OPTION MODEL		PARTS LIST	
TU16	ETCH BOARD REV	D	
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART		TITLE	
		SLAVE TEST (TFGI)	
		FUNCTION GENERATOR	
SCALE		SIZE CODE	
SHEET 1 OF 3		DCS M8912-0-1	
		REV. D	

REVISIONS

CHK	CHANGE NO.	REV

DATE: 7/31/79

JOHN HESS

Engineering Unit 11/11

M8912-1

H. DRAB

13-JAN-78

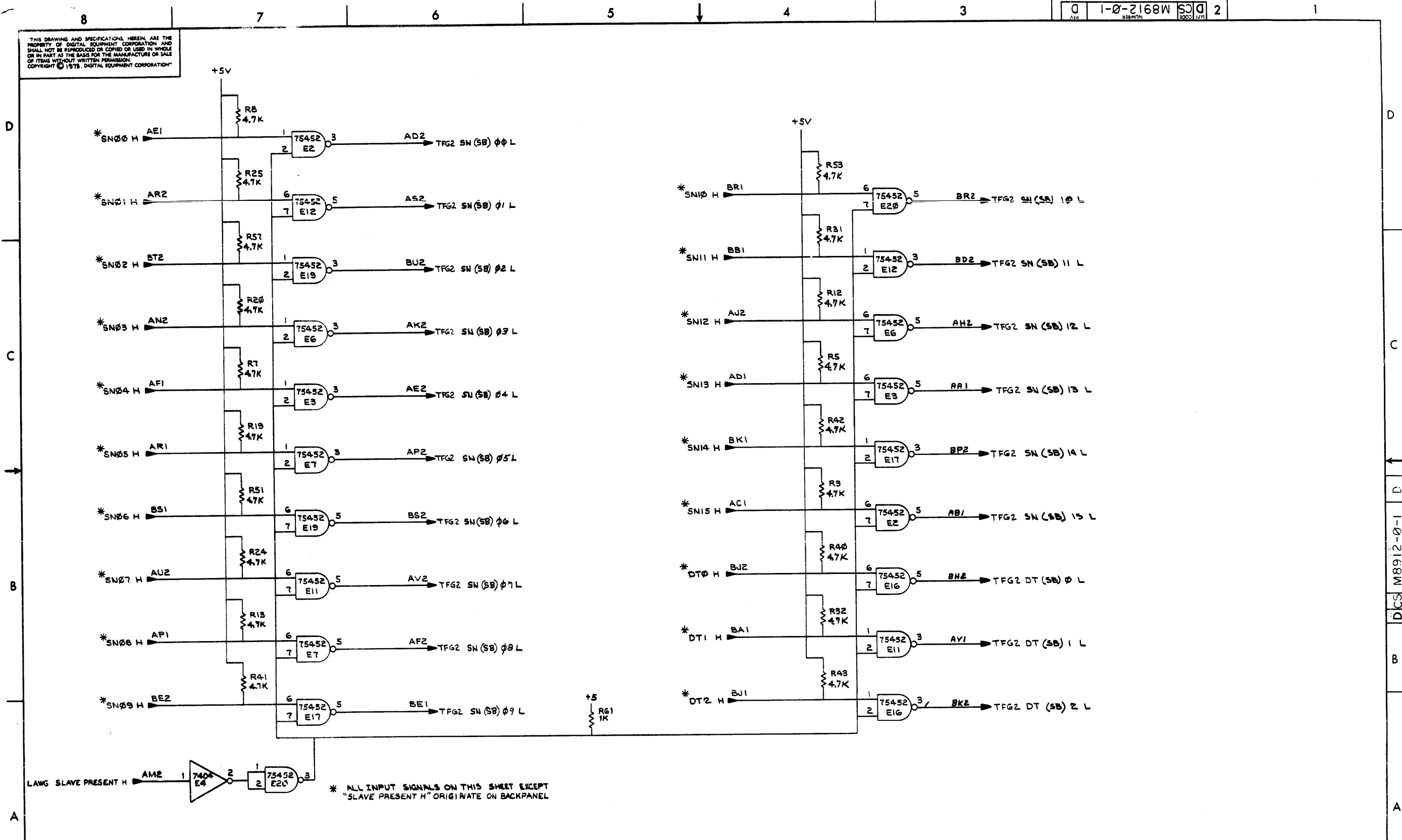
M8912-0004 D

R. CORNEAU

13-DEC-77

M8912-0002 C

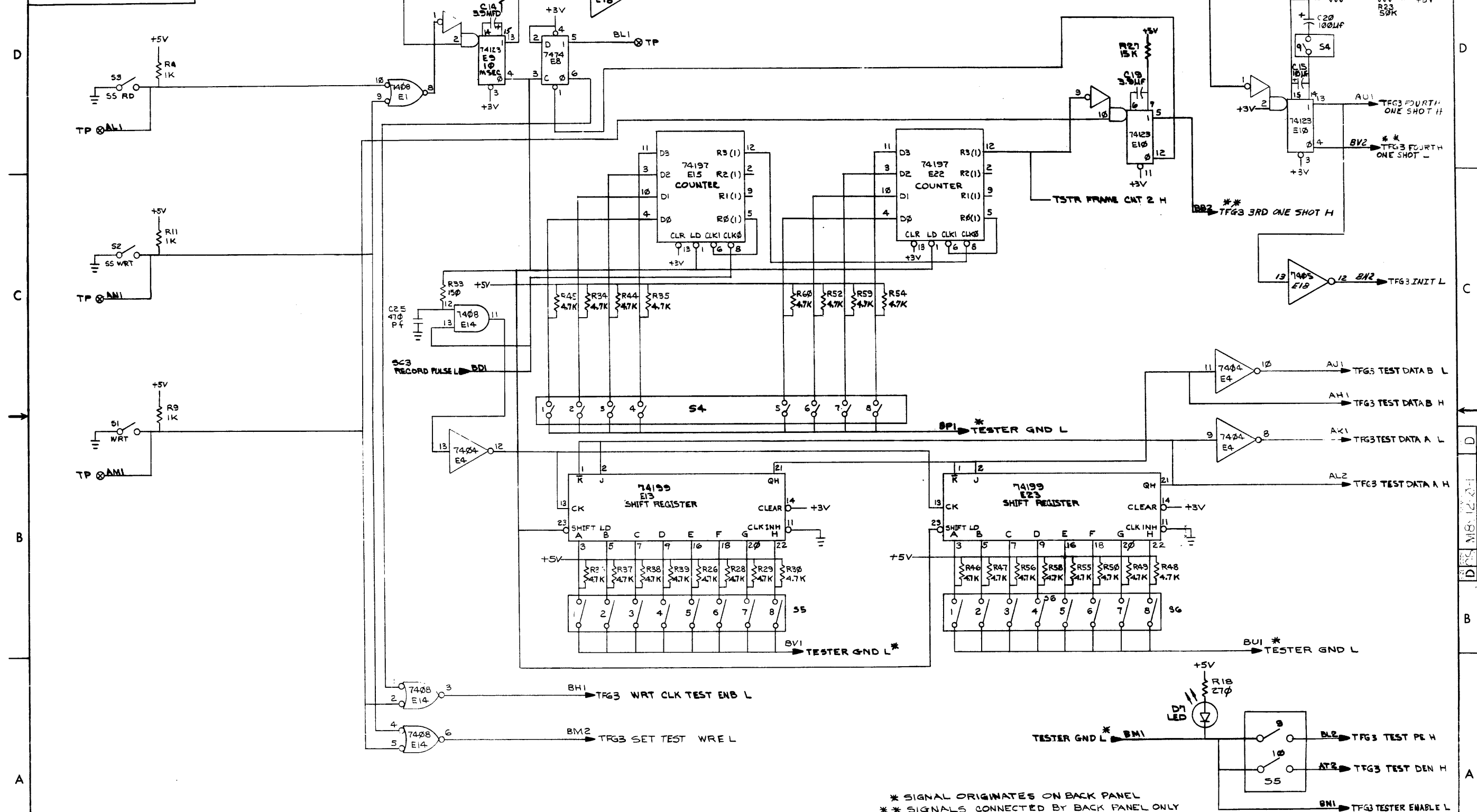
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REVISIONS		
CHK	CHANGE NO	REV

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

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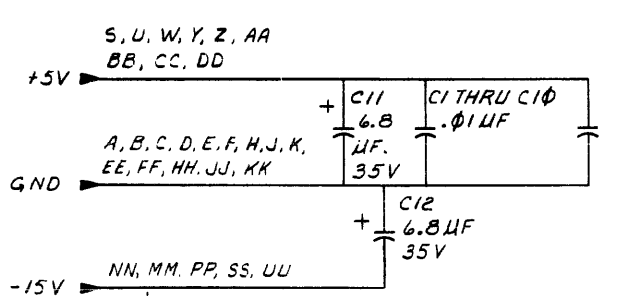
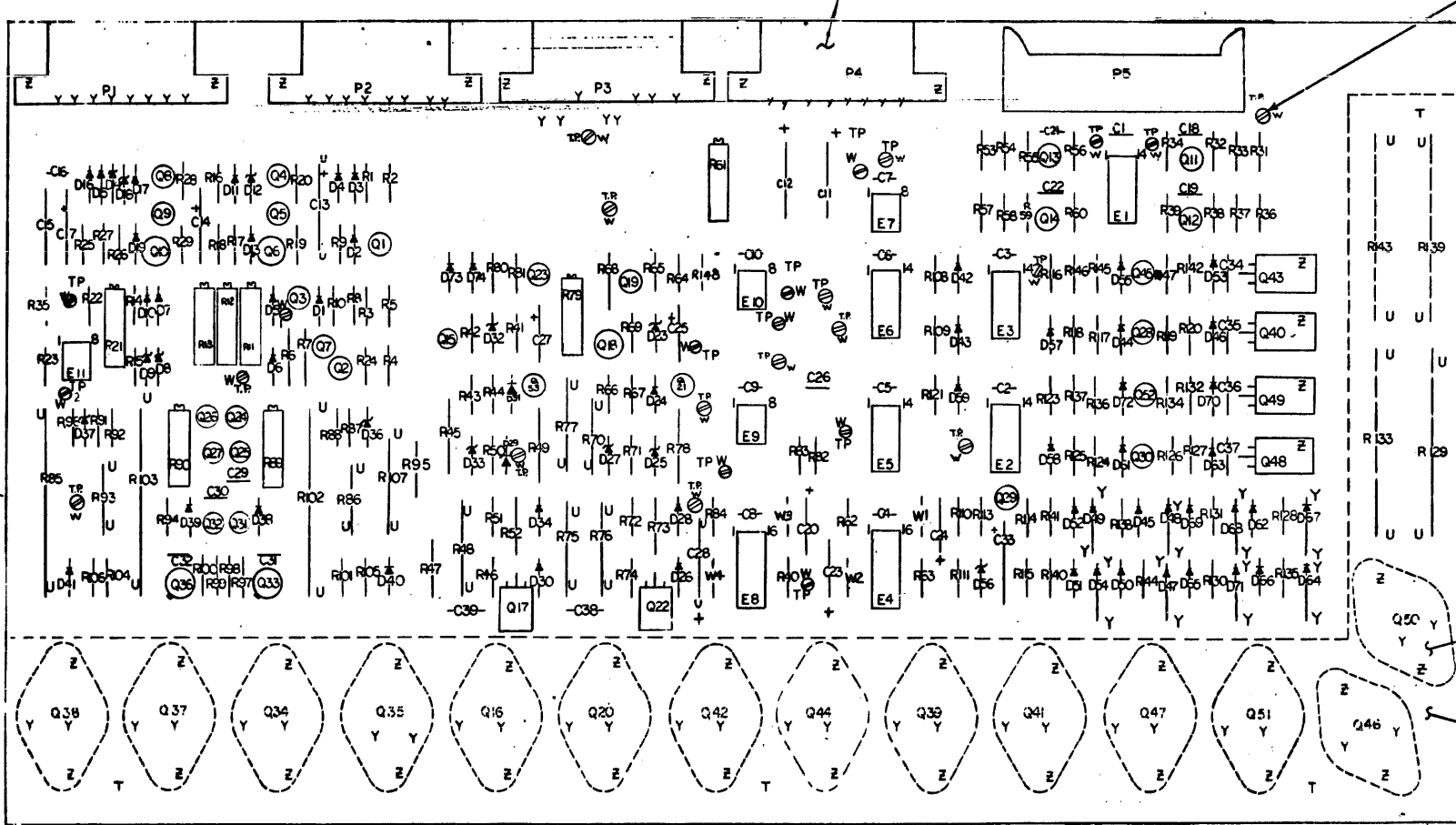


* SIGNAL ORIGINATES ON BACK PANEL
 ** SIGNALS CONNECTED BY BACK PANEL ONLY

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

W. SMITH
 7/10/73
 H606-0006 E
 H.D.R.A.B.
 31 DEC 1975
 JOHN HESS
 2-27-74

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
TUI6				
ETCH BOARD REV D				
DRN: V. Bismilla DATE: 10-18-73 CHKD: Carberry DATE: 12/18/73 ENG: John Hess DATE: 1-4-74 PRD: John Hess DATE: 1-4-74 PRP: John Hess DATE: 11/27/74				
TITLE: (DRVR 1) TUI6 POWER BOARD SIZE CODE: DCS H606-0-1 NUMBER: E REV: E				
SCALE: 1 OF 6 SHEET: 1 OF 6				

SEMICONDUCTOR CONVERSION CHART

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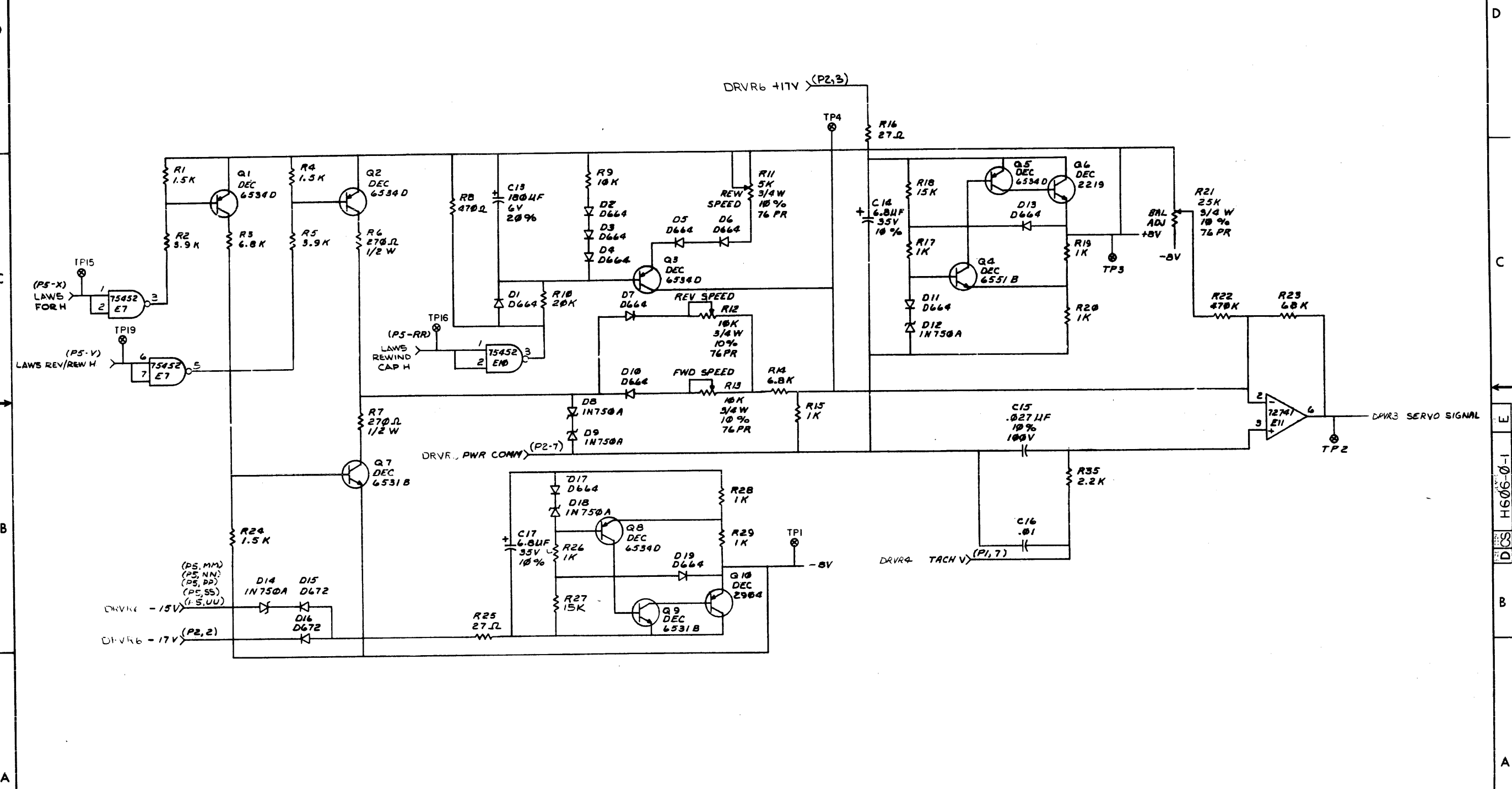
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-H606-0-4	REF 2	R43, R66	RES 560 1/2W 5%	1301890	47						
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-H606-0-5	REF 5	R46, R74, R94, R98, R99	RES 270 1/2W 5%	1301872	48						
REF		MODULE ECO HISTORY	B-MH-H606-0-6	REF 2	R52, R73	RES 39 1/2W 5%	1302336	49						
1		ETCHED CIRCUIT BOARD	5010481	1	R10	RES 20K 1/2W 5%	1302391	50						
1	C15	CAP .027UF 100V 10% NYLAR	1000049	2	R22	RES 470K 1/2W 5%	1302398	51						
5	C20, C23, C24, C27, C25	CAP 3.9UF 10V 10% S. TANT	1000064	3	R84	RES 33K 1/2W 10%	1300510	52						
2	C13, C28	CAP 180UF 6V 20% S. TANT	1000086	4	R128, R130, R131, R135, R138, R140, R141, R144	RES 56 1/2W 5%	1302602	53						
18	C1 THRU C10, C16, C18, C19, C21, C22, C26, C29, C30	CAP .01UF 100V 20% DISC	1001610-01	5	R75, R77	RES 56 2W 5%	1302636	54						
4	C11, C12, C14, C17	CAP 6.8UF 35V 10% S. TANT	1005306	6	R88, R92	RES 2K 1/2W 5%	1302388	55						
2	C31, C32	CAP .02UF	1000004	7	R114	RES 620 1/2W 5%	1303178	56						
1	C33	CAP 68UF 15V 10% S. TANT	1000082	8	R32, R38, R44, R55, R59, R67, R113	RES 8, 2K 1/2W 5%	1303179	57						
23	D1 THRU D7, D10, D11, D13, D17, D19, D38, D39, D42, D43, D44, D55, D57, D58, D59, D61, D72	DIODE D664	1100114	9	R107	RES 120 2W 5%	1305282	58						
2	D23, D32	DIODE IN 748A ZENER	1100122	10	R129, R133, R139, R143	RES 56 10W 1%	1305396	59						
7	D8, D9, D12, D14, D19, D36, D37	DIODE IN 750A ZENER	1100124	11	R102, R103	RES 12 10W 5%	1305400	60						
4	D40, D41, D73, D74	DIODE IN 4004	1105796	12	R76, R48	RES 27 2W 10%	1305624	61						
2	D27, D33	DIODE IN 4736A ZENER	1103340	13	R85	RES .1 10W 1%	1309108	62						
3	D25, D29, D56	DIODE IN 756A ZENER	1103441	14	R79	POT 100 1/2W 10% 76PR	1309143-04	63						
20	D50 THRU D53, D62, D63, D65, D66, D69, D70, D15, D16, D24, D26, D28, D30, D31, D34, D45, D46	DIODE D672	1105275	15	R89, R90	POT 1K 1/2W 10% 76PR	1309143-07	64						
8	D47, D48, D49, D54, D64, D67, D68, D71	DIODE 5624	1110420	16	R11	POT 5K 1/2W 10% 76PR	1309143-09	65						
4	P1, P2, P3, P4	CONN MATE-N-LOK 8 PIN	1209340	17	R12, R13	POT 10K 1/2W 10% 76PR	1309143-10	66						
32		SOCKET TERMINAL CONTACT	1209456	18	R21, R61	POT 25K 1/2W 10% 76PR	1309143-12	67						
1	P5	CONN 40P RT ANG HEADER	1209941	19	Q10, Q33	TRANS DEC 2904	1501742	68						
1		HEAT SINK	74-11390	20	Q6, Q36	TRANS DEC 2219	1501881	69						
2	R105, R106	RES 47 1/2W 5%	1300202	21	Q18	TRANS DEC 2904A	1501913	70						
1	R47	RES 56 1/2W 5%	1309995	22	Q37, Q41, Q44, Q50, Q51	TRANS DEC 3715	1503088	71						
2	R101, R104	RES 100 1/2W 5%	1300229	23	Q1, Q2, Q3, Q29, Q5, Q8, Q21, Q23, Q26, Q27, Q32, Q53	TRANS DEC 6534D	1503409	72						
3	R50, R71, R83	RES 220 1/2W 5%	1300271	24	Q4, Q7, Q9, Q11 THRU Q15, Q19, Q24, Q25, Q28, Q30, Q31, Q45, Q52	TRANS DEC 6531B	1508338	73						
2	R45, R70	RES 220 1W 10%	1300277	25	Q16, Q20, Q34, Q39, Q42, Q46, Q47	TRANS DEC 3791	1509581	74						
2	R7, R6	RES 270 1/2W 5%	1300285	26	Q17, Q22	TRANS DEC 4923	1509604	75						
9	R82, R119, R120, R126, R127, R132, R134, R142, R147	RES 330 1/2W 5%	1300295	27	Q35	TRANS DEC 4502	1510334	76						
2	R86, R93	RES 330 1W 5%	1300297	28	Q38	TRANS DEC 802	1510335	77						
1	R8	RES 470 1/2W 5%	1300316	29	Q40, Q43, Q48, Q49	TRANS D 45C8	1510598	78						
1	R68	RES 750 1/2W 5%	1300354	30	E5	IC DEC 7400	1905575	79						
24	R15, R17, R19, R20, R26, R25, R29, R31, R33, R36, R37, R51, R53, R54, R57, R58, R72, R87, R91, R116, R123, R137, R146, R48	RES 1K 1/2W 5%	1300365	31	E6	IC DEC 7410	1905576	80						
14	R1, R4, R24, R42, R65, R69, R80, R81, R97, R100, R110, R111, R118, R125	RES 1.5K 1/2W 5%	1300391	32	E1	IC DEC 7402	1909004	81						
3	R35, R41, R64	RES 2.2K 1/2W 5%	1300417	33	E2, E3	IC DEC 380	1909485	82						
3	R108, R109, R121	RES 3.3K 1/2W 5%	1300439	34	E11	IC DEC 741	1910298	83						
3	R2, R5, R96	RES 3.9K 1/2W 5%	1300444	35	E9	IC DEC 75451	1910406	84						
2	R9, R115	RES 10K 1/2W 5%	1300479	36	E4, E8	IC DEC 74123	1910436	85						
5	R34, R39, R56, R60, R62	RES 12K 1/2W 5%	1300488	37	E7, E10	IC DEC 75452	1910645	86						
2	R18, R27	RES 15K 1/2W 5%	1300496	38	A/R	THERMAL COMPOUND	9008268	87						
5	R23, R117, R124, R136, R145	RES 68K 1/2W 5%	1301327	39	2B	SCREW, BD HD 4-40X7-16 LG	9006012-4	88						
2	R16, R25	RES 27 1/2W 5%	1301522	40	32	KEPNUT 4-40	9006557	89						
2	R3, R14	RES 6.8K 1/2W 5%	1301423	41	8	WASHER, NYLON	9006706	90						
2	R49, R78	RES .02 1/2W 10%	1301642	42	14	WASHER, ANODIZED	9006721	91						
1	R95	RES 47 1/2W 5%	1301695	43	8	EYELET	9006745	92						
1	R63	RES 22K 1/2W 5%	1301808	44	26	CAMBION TERMINAL	9007791	93						
1	R40	RES 5.6K 1/2W 5%	1301874	45	6	C34 THRU C39	CAP .1UF 100V 20% DISC	1000030	94					
				46	4		EYELET	9006746	95					
					4		SCREW, ED HD 4-40 X5-16 LG	9006010-4	96					
					4		TUBING #22 THIN WALL	9007256	97					
					4		CRIPLET	121C244	98					
					4	W1 THRU W4	JUMPER, WIRE, WHITE INSULATION	9009185	99					

SECTIONS		
CHK	CHANGE NO	REV

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

SCALE 1:1 SHEET 2 OF 6 DIST.

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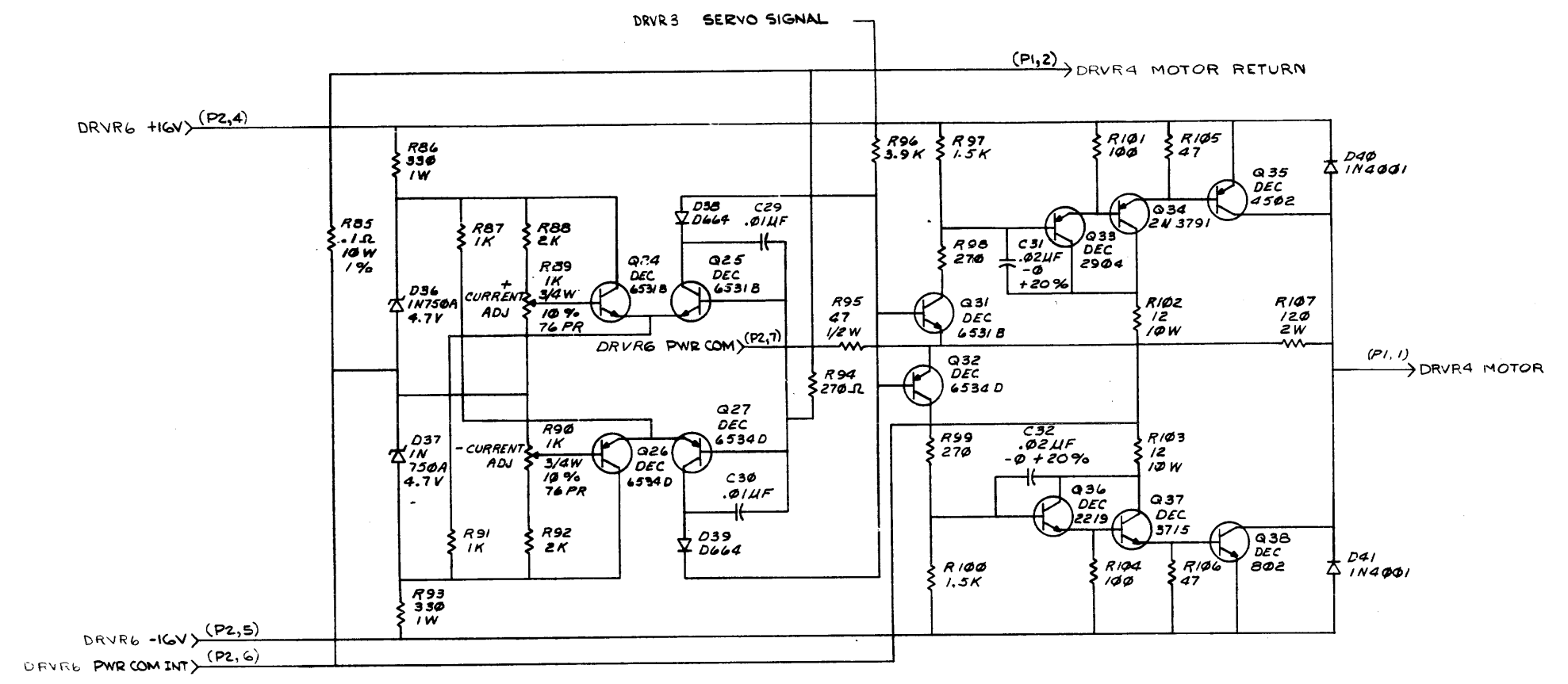
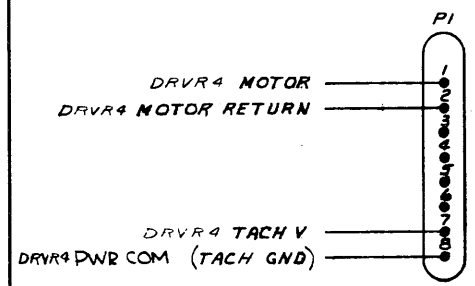
REVISIONS		
CHK	CHANGE NO	REV

TITLE	(DRVR3)	SIZE	CODE	NUMBER	REV.
TU16 POWER BOARD	DCS	H606-0-1			E
SCALE	SHEET 3	OF	DIST.		

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D
C
B
A

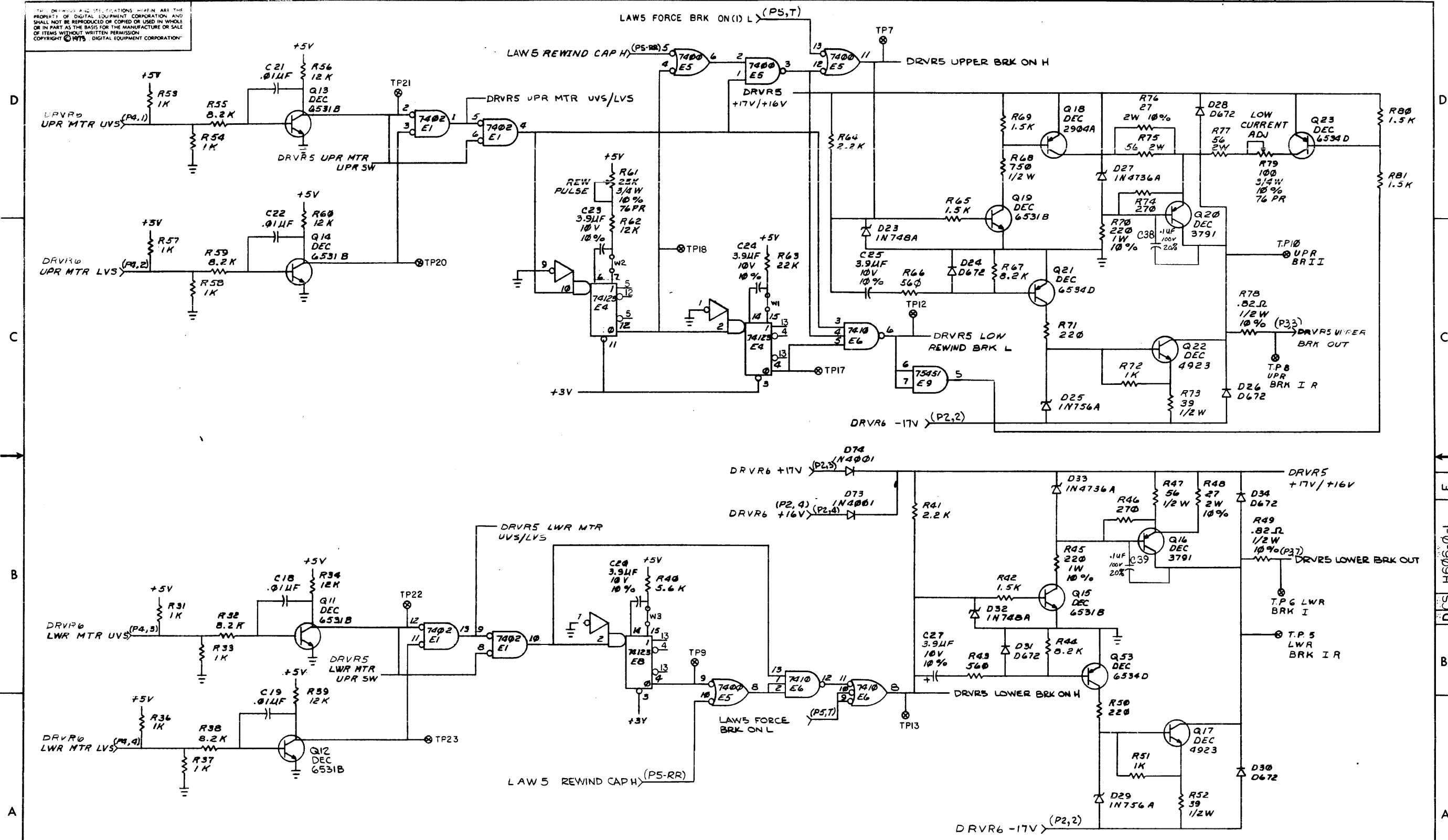
D
C
B
A



REVISIONS		
CHK	CHANGE NO	REV

TITLE	(DRV4)	SIZE CODE	NUMBER	REV.
TU16 POWER BOARD	D CS	H606-0-1	E	
SCALE	SHEET 4	OF 6	DIST.	

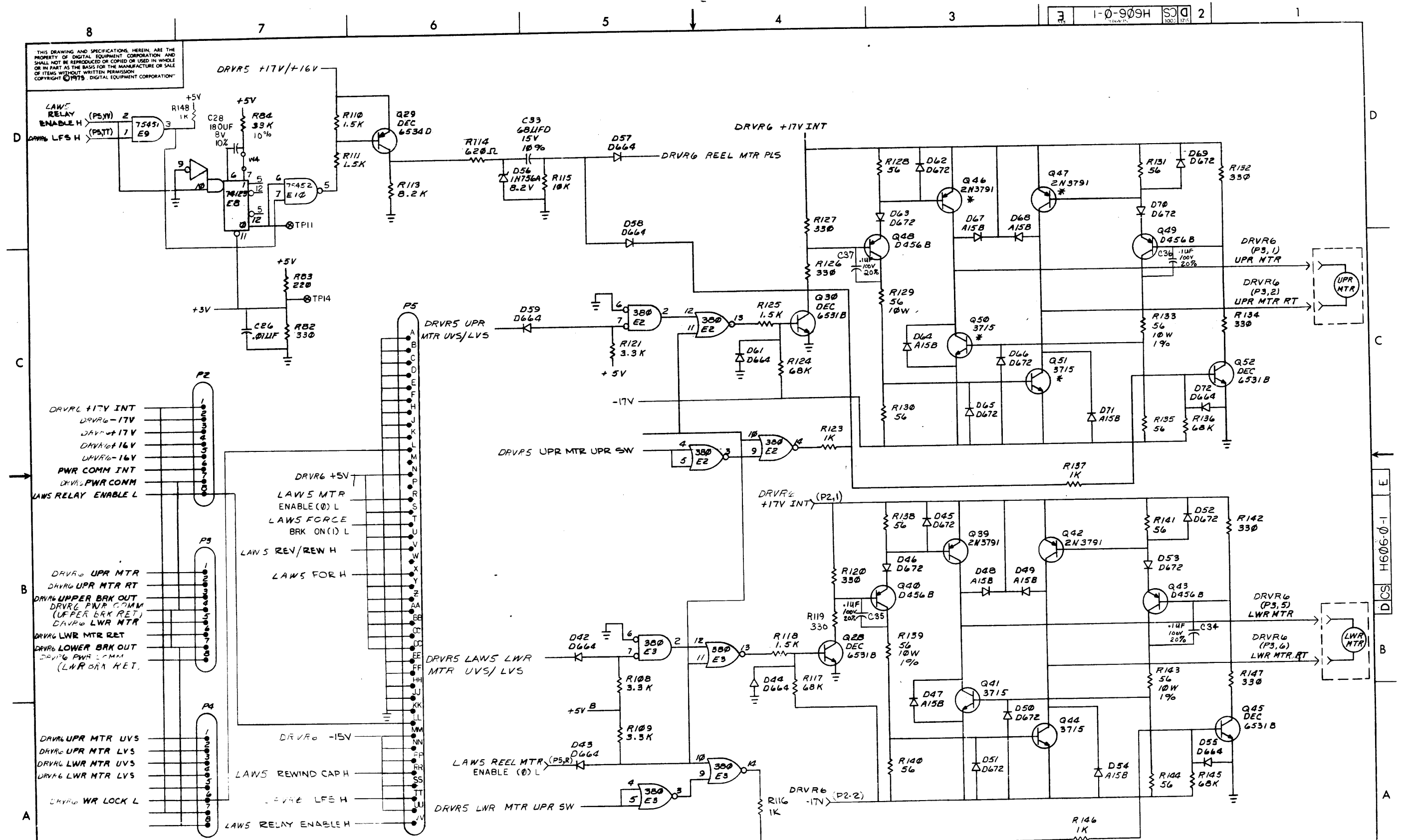
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REVISIONS		
CHK	CHANGE NO	REV

TITLE	(DRVR5) TU16 POWER BOARD	SIZE CODE	DCS	NUMBER	H606-0-1	REV.	E
SCALE	1/8"	SHEET	5	OF	6	DIST.	

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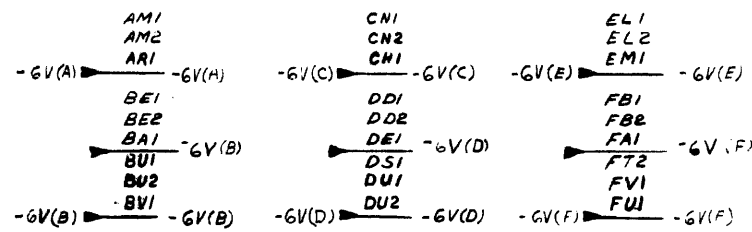
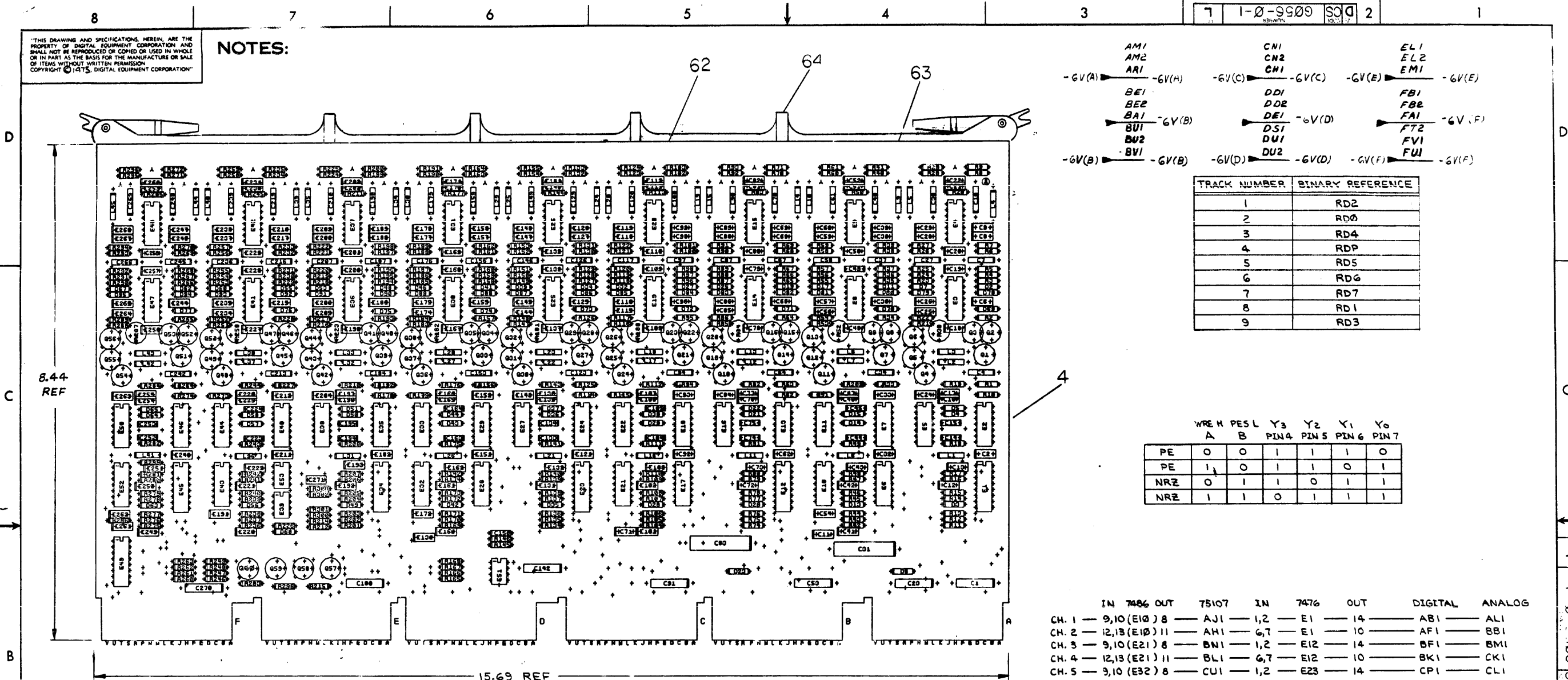


REVISIONS		
CHK	CHANGE NO	REV

TITLE	(DRVR6) TU16 POWER BOARD	SIZE CODE	D CS	NUMBER	HS06-0-1	REV	E
SCALE		SHEET	6	OF	6	DIST.	

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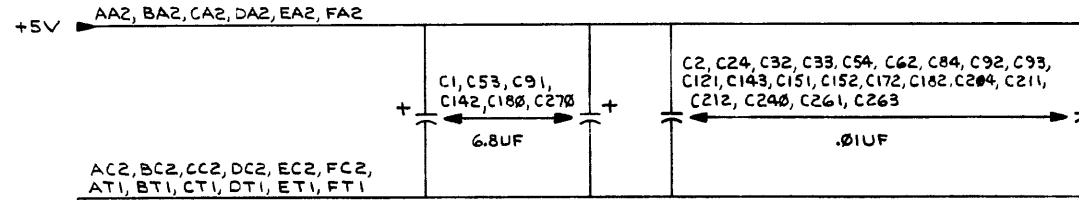
NOTES:



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

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

	IN	7476	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	CK1	
CH. 5	9,10 (E32)	8	CU1	1,2	E23	14	CP1	CL1	
CH. 6	12,13 (E32)	11	CS1	6,7	E23	10	CA1	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	FMI	1,2	E45	14	FK1	FR1	



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

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

W.D. 76
ARNOLD KORELITZ
Peter Corbett 7-6-76
G056-000081 L
W. SMITH
G056-00007 K
A. KORELITZ
G056-00006 J
A. KORELITZ
G056-00003 H
A. KORELITZ
G056-00002 D
G056-00000

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

REVISIONS

CHK	CHANGE NO	REV

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

SEMICONDUCTOR CONVERSION CHART

DRN. DATE
CHKD. DATE
ENG. DATE
PROJ. ENG. DATE
ENOD. DATE

NEXT HIGHER ASSY

digital EQUIPMENT CORPORATION
TITLE (RAI)
READ AMP

SIZE CODE DCS NUMBER G056-0-1 REV. L

SHEET 1 OF 7

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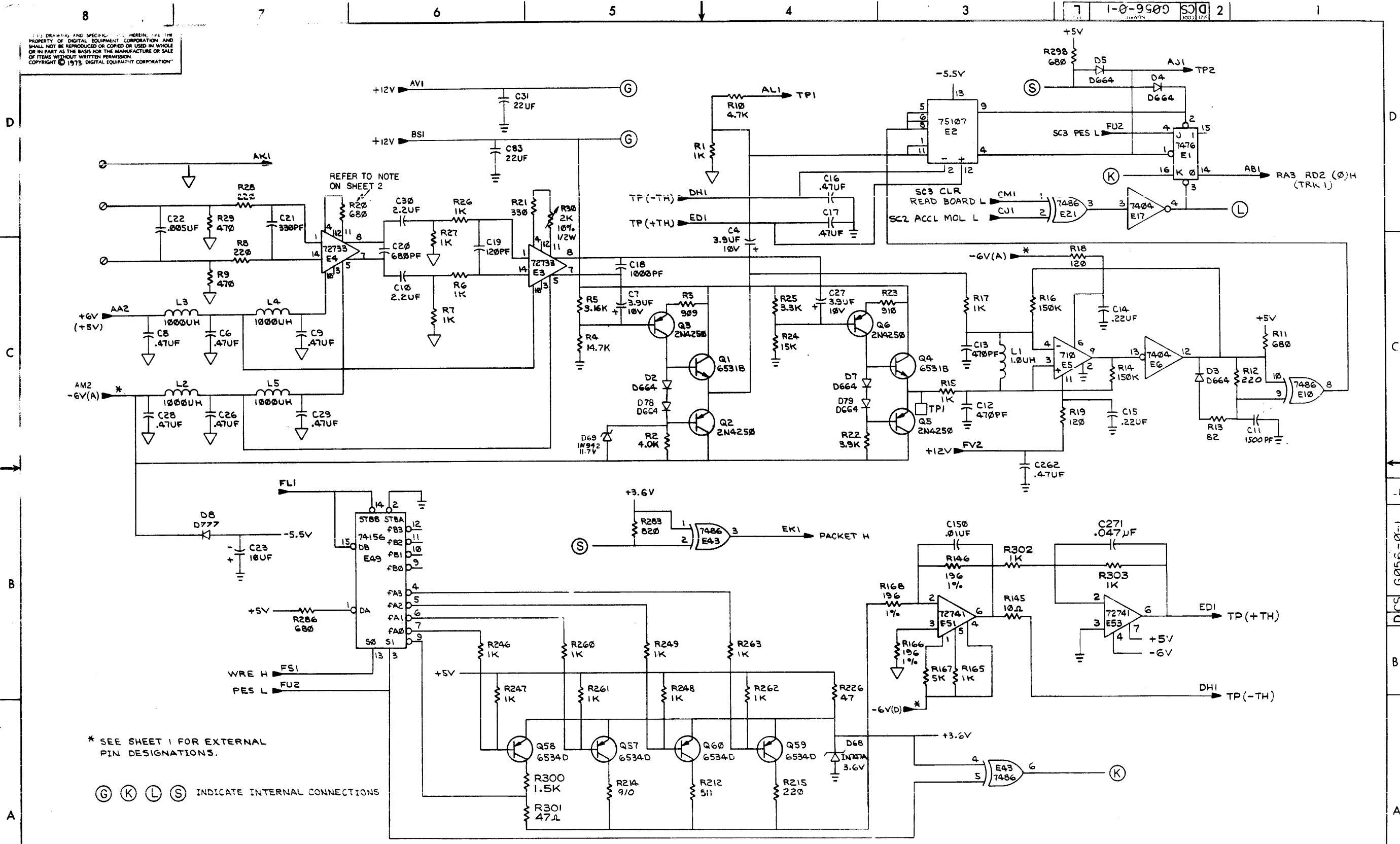
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-G056-B-4	1
REF		ASSY-DRILLING/HOLE LAYOUT	D-AH-G056-B-5	2
REF		MODULE ECO HISTORY	B-MH-G056-B-6	3
1		ETCHED CIRCUIT BOARD	5010479	4
9	C20, C50, C80, C110, C139, C169, C201, C229, C258	CAP 680PF, 100V, 5% DM	1000026	5
6	C1, C53, C91, C142, C180, C270	CAP 5.8UF, 35V, 10% S.TANT	1005306	6
18	C14, C15, C44, C45, C74, C75, C104, C105, C133, C134, C163, C164, C194, C195, C223, C224, C252, C253	CAP .22UF, 50V, 10% CER	1010274	7
1	C23	CAP 10UF, 20V, 10% S.TANT	1004813	8
9	C11, C41, C71, C101, C130, C160, C181, C220, C249	CAP .82UF, 100V, 5% DM	1000027	9
9	C18, C49, C79, C109, C138, C168, C200, C228, C257	CAP 120PF, 100V 5% DM	1000018	10
9	C21, C51, C81, C111, C140, C170, C202, C230, C259	CAP 330PF, 100V, 5% DM	1000023	11
18	C10, C30, C40, C61, C70, C90, C100, C120, C129, C149, C159, C179, C190, C210, C219, C239, C248, C269	CAP 2.2UF, 20V, 10% S.TANT	1002627	12
9	C6, C25, C36, C56, C65, C85, C95, C115, C144, C154, C174, C195, C205, C214, C234, C244, C264	CAP 82PF, 100V, 5% DM	1000015	13
18	C12, C13, C42, C43, C72, C73, C102, C103, C131, C132, C161, C162, C192, C193, C221, C222, C250, C251	CAP 470PF, 100V, 5% DM	1000024	14
74	C6, C8, C9, C16, C17, C26, C28, C29, C36, C38, C39, C46, C47, C57, C59, C60, C66, C68, C69, C76, C77, C86, C88, C89, C96, C98, C99, C106, C107, C116, C118, C119, C125, C127, C128, C135, C136, C145, C147, C148, C155, C157, C158, C165, C166, C175, C177, C178, C186, C188, C189, C196, C197, C206, C208, C209, C219, C217, C218, C225, C226, C235, C237, C238, C244, C246, C247, C254, C255, C262, C265, C267, C268, C181	CAP .47UF, 25V, 20% CER	1010279	15
2	C31, C83	CAP 22UF 35V, 20% S.TANT	1002433	16
9	C22, C52, C82, C112, C141, C171, C203, C231, C260	CAP .005UF, 100V, 20% DISC	1001765	17
9	C18, C48, C78, C108, C137, C167, C198, C227, C256	CAP 1000PF 250V, 20% DISC	1000043	18
27	C4, C7, C27, C34, C37, C58, C64, C67, C87, C94, C97, C117, C123, C146, C126, C153, C156, C176, C184, C187, C207, C213, C216, C236, C242, C245, C266	CAP 3.9UF 10V, 10% S.TANT	1000064	19
22	C2, C24, C32, C33, C54, C62, C84, C92, C93, C121, C143, C150, C151, C152, C172, C182, C204, C211, C212, C239, C240, C261, C283	CAP .01UF 100V, 20% DISC	1001610-01	20
63	D2, D3, D13, D14, D15, D19, D20, D21, D22, D26, D27, D30, D34, D37, D39, D41, D44, D46, D49, D51, D53, D55, D58, D60, D62, D63, D72, D73, D74, D75	DIODE D664	1100114	21
1	D68	DIODE IN747A 3.6V 5%	1110672	23
2	D12, D23	DIODE IN758A	1100125	24
10	R23, R55, R87, R118, R149, R185, R216, R253, R290, R294	RES 910 $\frac{1}{4}$ W 5%	1305374	25
1	R145	RES 10 $\frac{1}{4}$ W 5%	1301317	26
2	R31, R32	RES 100 $\frac{1}{4}$ W 5%	1301332	27
9	R21, R53, R85, R116, R147, R183, R216, R251, R288	RES 330 $\frac{1}{4}$ W 5%	1300295	28
1	R226	RES 47 $\frac{1}{4}$ W 5%	1300202	29

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
26	R8, R28, R40, R60, R70, R92, R102, R123, R132, R154, R163, R190, R199, R224, R234, R256, R271, R272, R295, R215, R43, R75, R105, R135, R202, R237	RES 220 $\frac{1}{4}$ W 5%	1300271	30
18	R9, R22, R28, R41, R48, R61, R71, R75, R93, R103, R105, R124, R133, R135, R155, R164, R170, R191, R200, R202, R225, R235, R237, R259, R272, R286, R296	RES 470 $\frac{1}{4}$ W 5%	1300316	31
11	R11, R42, R74, R104, R134, R169, R201, R236, R275, R286, R298	RES 680 $\frac{1}{4}$ W 5%	1301424	32
9	R25, R50, R83, R113, R144, R177, R211, R245, R285	RES 680, $\frac{1}{4}$ W, 5% NOMINAL	1300365	33
74	R1, R6, R7, R15, R17, R26, R27, R33, R36, R39, R46, R48, R58, R59, R63, R64, R69, R78, R80, R90, R91, R94, R100, R101, R108, R110, R121, R122, R125, R130, R131, R136, R140, R142, R152, R153, R156, R161, R162, R173, R188, R169, R192, R197, R198, R205, R207, R221, R222, R227, R232, R233, R240, R242, R246, R247, R248, R249, R256, R257, R260, R261, R262, R263, R264, R269, R270, R279, R281, R290, R294, R295, R302, R303	RES 1K $\frac{1}{4}$ W 5%	1300365	33
1	R283	RES 820, $\frac{1}{4}$, 5%	1301775	34
18	R18, R19, R49, R81, R82, R111, R112, R284, R141, R143, R175, R176, R244, R208, R209, R282, R280, R243	RES 120 $\frac{1}{4}$ W 5%	1300247	35
3	R166, R146, R168	RES 196 $\frac{1}{4}$ W 1%	1302956	36
11	R10, R51, R62, R114, R115, R165, R167, R178, R179, R273, R274	RES 4.7K $\frac{1}{4}$ W 5%	1300447	37
9	R22, R54, R86, R289, R117, R140, R184, R217, R252	RES 3.9K $\frac{1}{4}$ W 5%	1300444	38
9	R2, R3, R4, R6, R126, R157, R193, R228, R265, R95	RES 4.0K $\frac{1}{4}$ W 1%	1305127	39
18	R14, R16, R45, R47, R77, R79, R107, R109, R137, R139, R172, R174, R204, R206, R239, R241, R278, R280	RES 150K $\frac{1}{4}$ W 5%	1302396	40
9	R13, R44, R76, R106, R136, R171, R205, R238, R277	RES 82 $\frac{1}{4}$ W 5%	1301477	41
9	R25, R57, R89, R120, R151, R187, R220, R255, R292	RES 3.3K $\frac{1}{4}$ W 5%	1300439	43
9	R24, R56, R88, R119, R150, R186, R219, R254, R291	RES 15K $\frac{1}{4}$ W 5%	1300496	44
9	R30, R52, R84, R180, R181, R223, R250, R287, R182	POT 2K $\frac{1}{4}$ W 10%	1309150-07	45
1	R300	RES 47 $\frac{1}{4}$ W 5%	1300202	46
1	R214	RES 360 $\frac{1}{4}$ W 5%	1501889	47
4	Q57, Q58, Q59, Q60	TRANSISTOR 6534D	1503409	48
18	Q1, Q4, Q7, Q11, Q14, Q18, Q21, Q24, Q27, Q30, Q33, Q36, Q39, Q42, Q45, Q48, Q51, Q54	TRANSISTOR 6531B	1509338	52
36	Q2, Q3, Q5, Q6, Q8, Q9, Q12, Q13, Q15, Q16, Q19, Q20, Q22, Q23, Q25, Q26, Q28, Q29, Q31, Q32, Q34, Q35, Q37, Q38, Q40, Q41, Q43, Q44, Q46, Q47, Q49, Q50, Q52, Q53, Q55, Q56	TRANSISTOR 2N4250	1509142	5

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
				52
4-5	L1, L8, L11, L16, L21, L26, L31, L36, L41, L2, L3, L4, L5, L7, L8, L9, L10, L12, L13, L14, L15, L17, L18, L19, L20, L22, L23, L24, L25, L27, L28, L29, L30, L32, L33, L34, L35, L37, L38, L39, L40, L42, L43, L44, L45	INDUCTOR 1000 UH	1602723	53
1	E49	I.C. 74150	1913233	54
2	E51, E53	I.C. 72741	1910298	55
18	E3, E4, E8, E9, E14, E15, E19, E20, E25, E26, E30, E31, E36, E37, E41, E42, E47, E48	I.C. 72733	1910644	56
5	E1, E12, E23, E34, E45	I.C. 7476	1905585	57
9	E2, E11, E13, E22, E24, E33, E35, E44, E46	I.C. 75107	1910268	58
9	E5, E7, E10, E18, E27, E29, E38, E40, E50	I.C. 710	1905620-01	59
5	E10, E21, E32, E43, E52	I.C. 7486	1910011	60
3	E6, E17, E28	I.C. 7404	1909686	61
12		EYELET	9006732	62
27		SPLIT LUG	9006735	63
1		HANDLE, HEX	1210711-2	64
1				65
1		READ CABLE	7010057-0-0	66
1		CABLE READ BOARD	7009920-0-0	67
9	R70, R50, R83, R113, R144, R177, R211, R245, R285	RES 470 $\frac{1}{4}$ W 5% (HIGH GAIN) OR RES 820 $\frac{1}{4}$ W 5% (LOW GAIN) NOTE: TO BE CHANGED AT FINAL SYSTEM TEST IF NECESSARY	1300316 1301775	68
				69
				70
9	C11, C41, C71, C101, C130, C160, C191, C220, C249	CAP 1500 PF	1000054	71
9		RES 470 (MAX GAIN) RES 680 RES 820 RES 1.2K (NOMINAL) RES 1.8K (MIN GAIN)		
1	D8	DIODE D777	1103041	72
18	R300-317	RES 270 $\frac{1}{4}$ W 5%	1301972	73
9	D69-D77	ZENER DIODE IN942 11.7V	11-03345	74
9	R5, R37, R67, R98, R160, R196, R268, R231, R129	RES 3.16K $\frac{1}{4}$ W 1%	13-3045	75
	R2	RES 511 $\frac{1}{4}$ W 1%	1302411	76
9	R4, R36, R66, R97, R159, R195, R267, R230, R128	RES 14.7K $\frac{1}{4}$ W 1%	1302941	77
9	R3, R35, R65, R96, R158, R154, R266, R229, R127	RES 909 $\frac{1}{8}$ W 1%	1302655	78
1	R301	RES 15K $\frac{1}{4}$ W 5%	1300391	79
1	C271	CAP .047 MFD, POLYCARB	1009433	80
1	E39	I.C. 75452	1910645	81

CHK	CHANGE NO	REV	TITLE	SIZE CODE	NUMBER
			READ AMP (RA2)	D CS	G056-0-1
			SCALE	SHEET 2 OF 7	DIST.

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* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

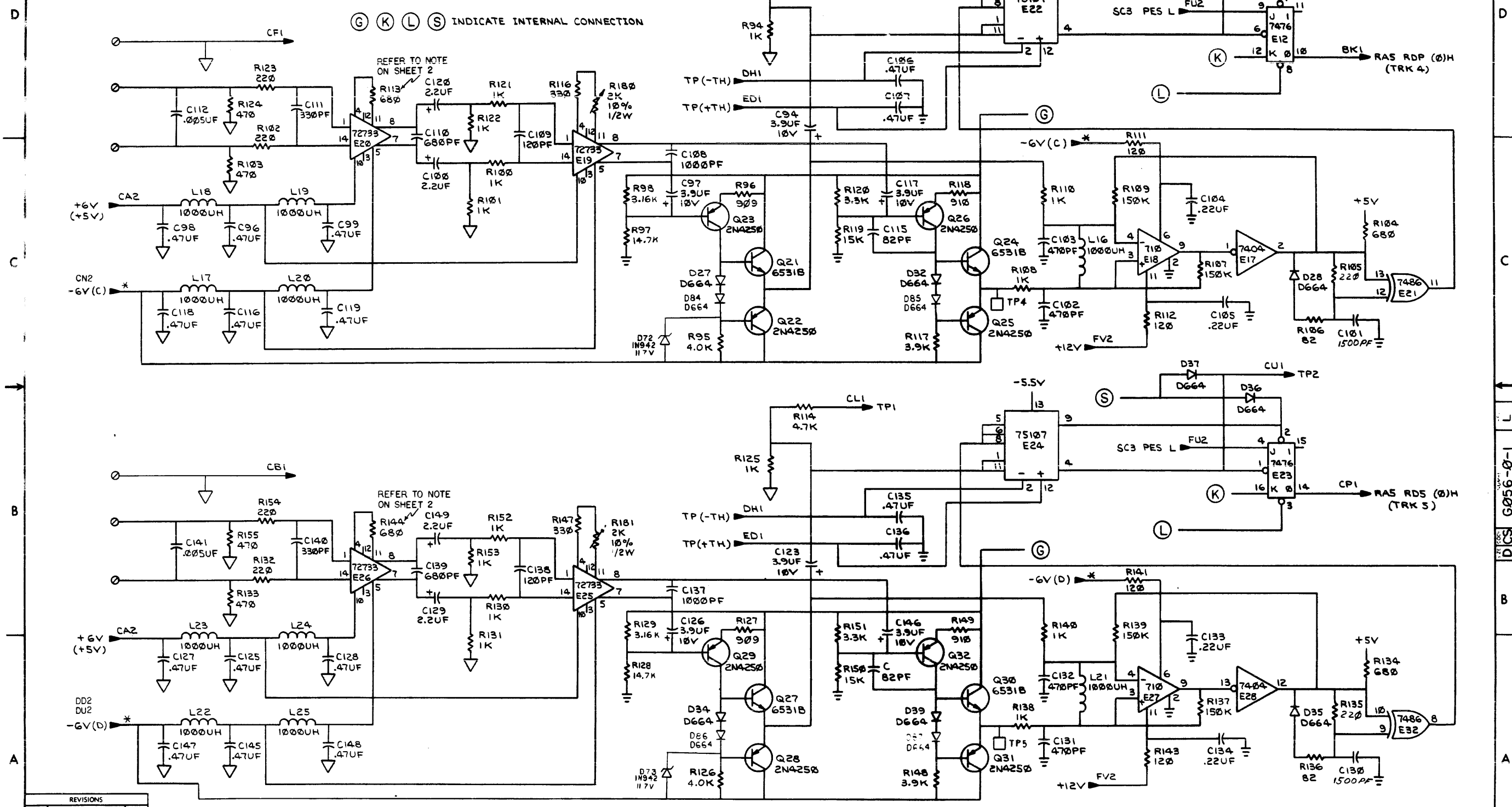
ⓐ ⓑ ⓓ ⓔ INDICATE INTERNAL CONNECTIONS

REVISIONS		
CHK	CHANGE NO	REV

TITLE	READ AMP (RA3)	SIZE/CODE	D CS	NUMBER	G056-0-1	REV.	L
SCALE	+	SHEET	3	OF	7	DIST.	

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*SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.
 (G) (K) (L) (S) INDICATE INTERNAL CONNECTION



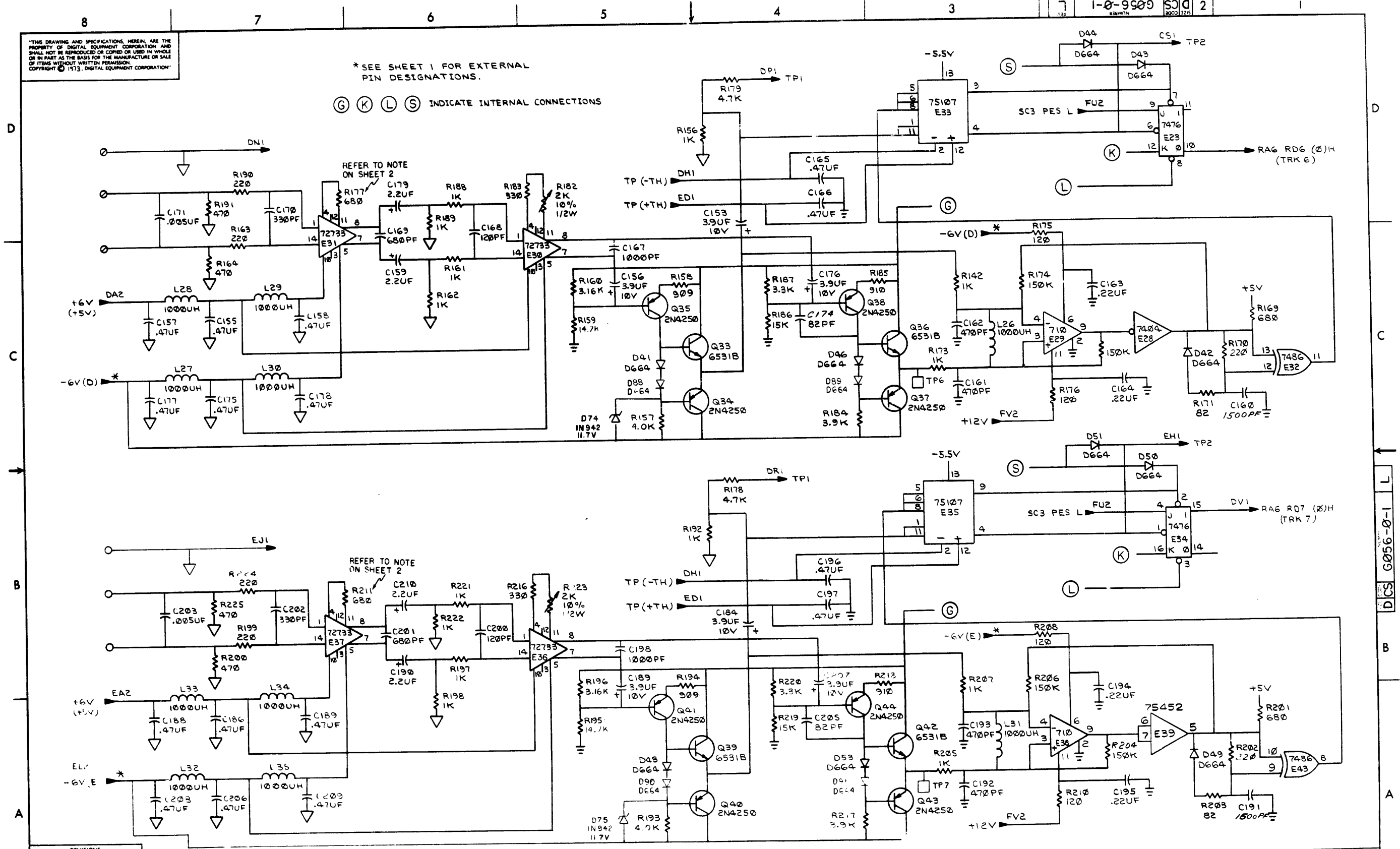
REVISIONS		
CHK	CHANGE NO	REV

TITLE	READ AMP (RA5)	SIZE CODE	D CS	NUMBER	G056-0-1	REV.	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



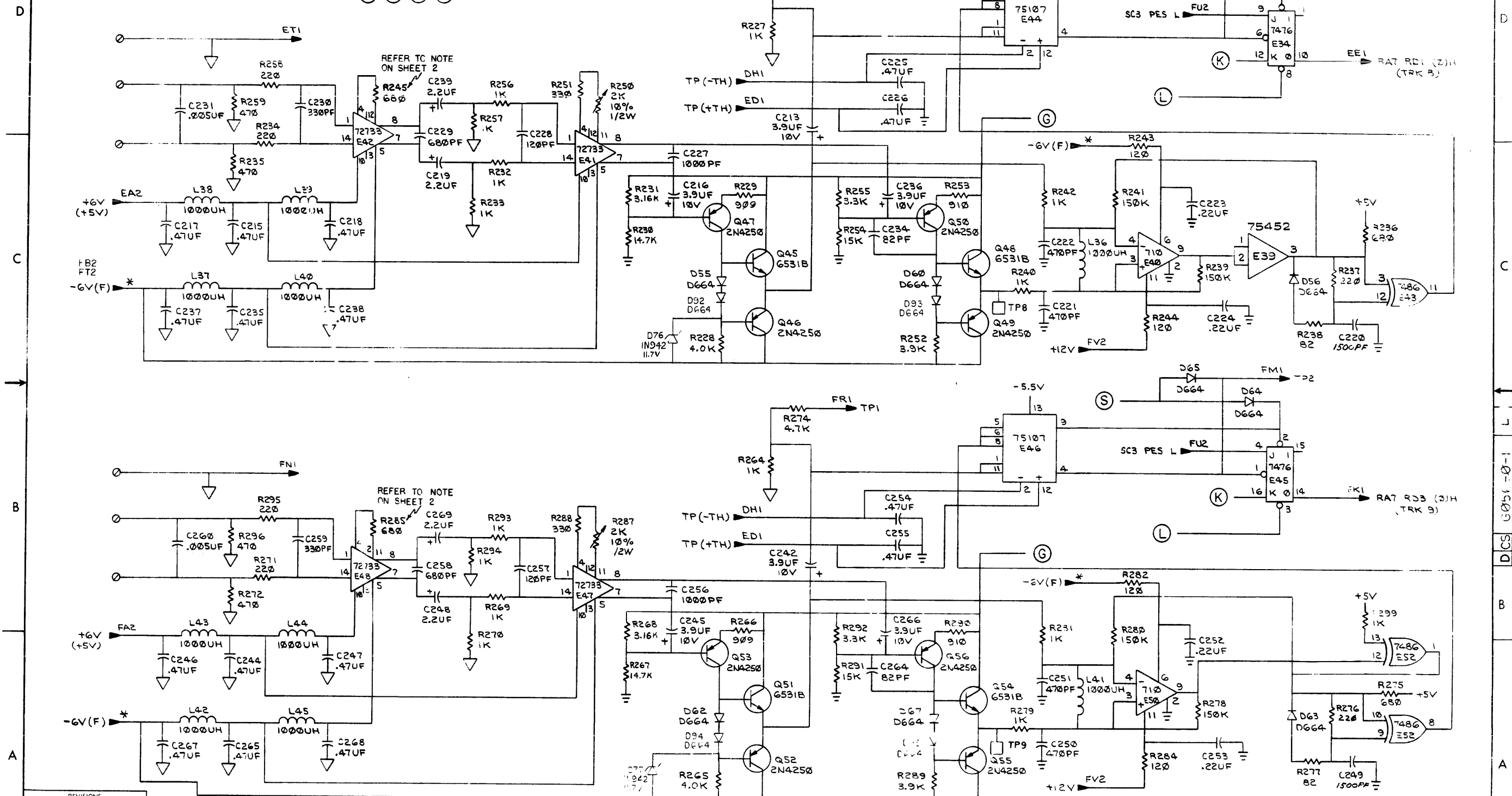
REVISIONS		
CHK	CHANGE NO	REV

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

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* SEE SHEET 1 FOR EXTERNAL PIN DESIGNATIONS.

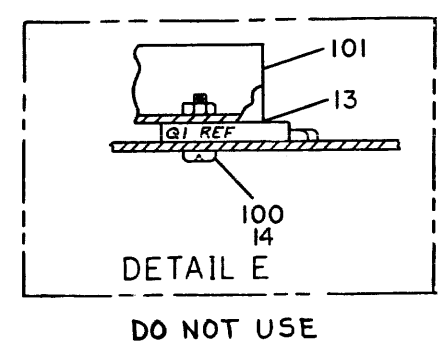
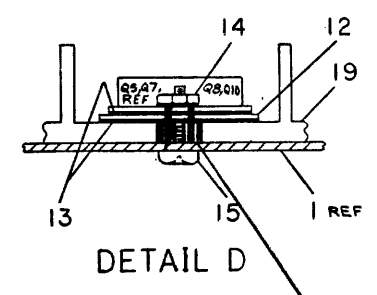
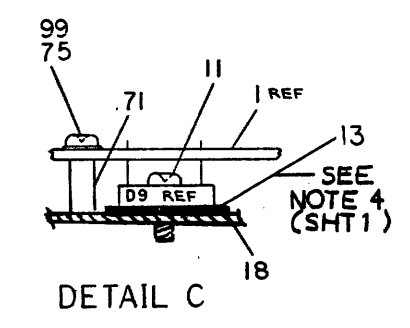
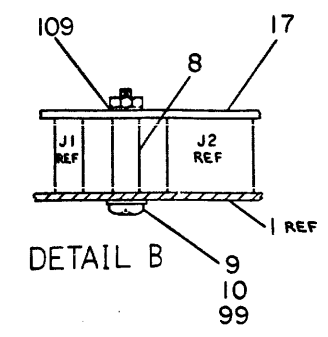
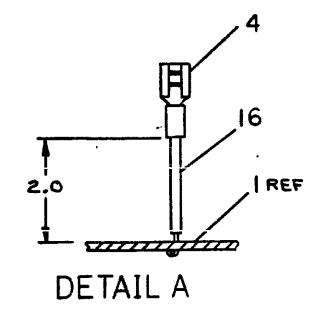
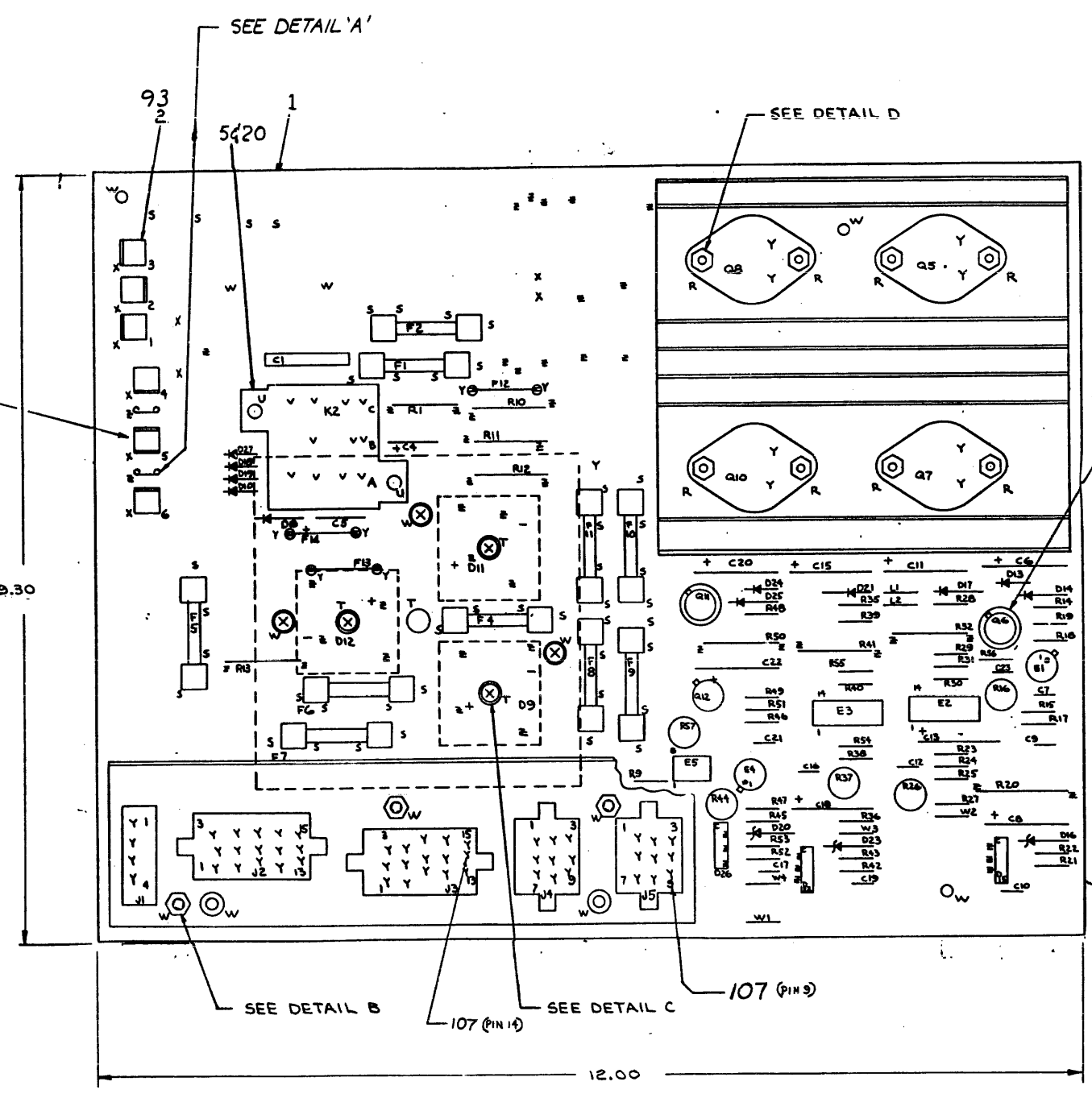
(G) (K) (L) (S) INDICATE INTERNAL CONNECTIONS



REVISIONS		
CHK	CHANGE NO	REV

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

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SEE NOTE 3 (SHT 1)

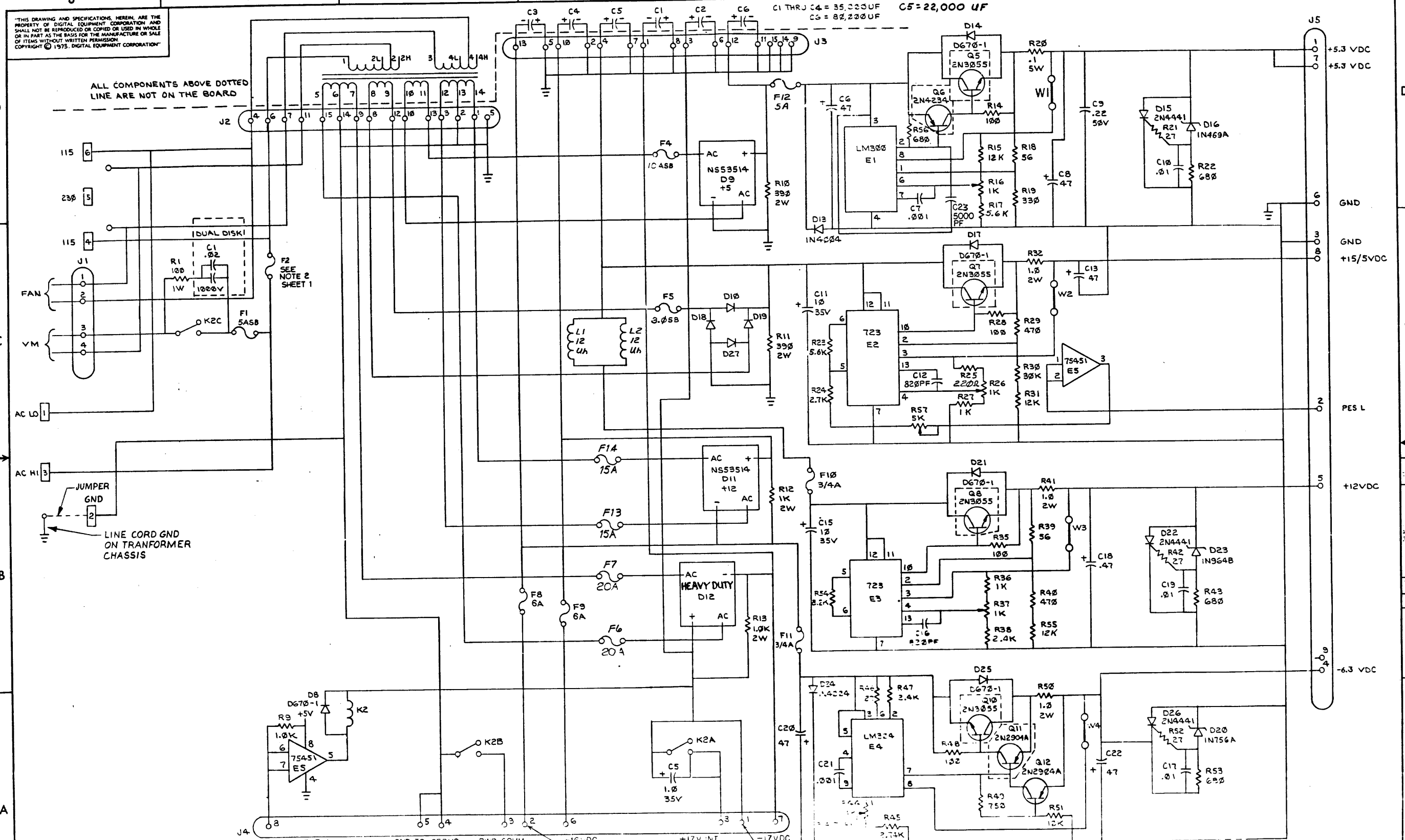
114

REVISIONS		
CHK	CHANGE NO	REV

TITLE	TUI6 POWER SUPPLY	SIZE CODE	C	NUMBER	5410451-0-1	REV.	S
SCALE		SHEET	2	OF	4	DIST.	

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ALL COMPONENTS ABOVE DOTTED LINE ARE NOT ON THE BOARD

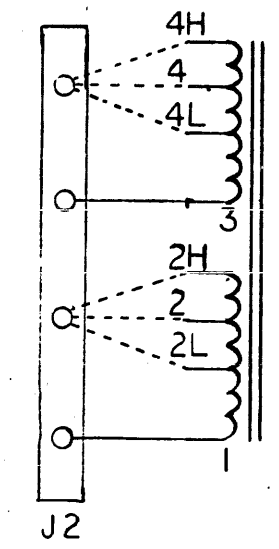


REV. NO.	CHANGE NO.	REV.

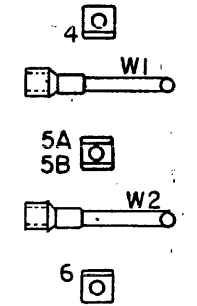
TITLE	TU16 POWER SUPPLY	SIZE CODE	C CS 5410451-0-1	NUMBER		REV.	S
SCALE		SHEET	3	OF		DIST	

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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

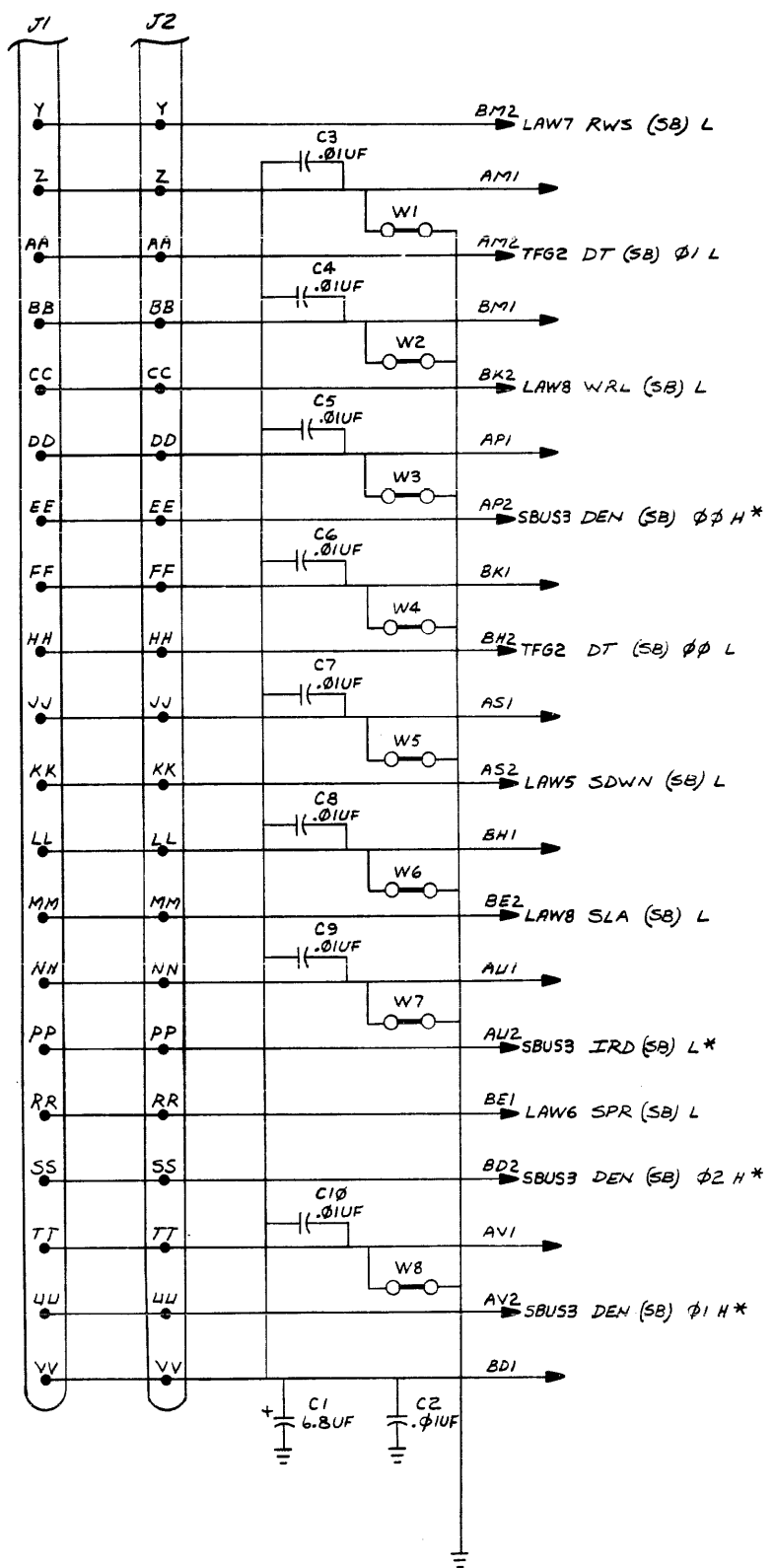
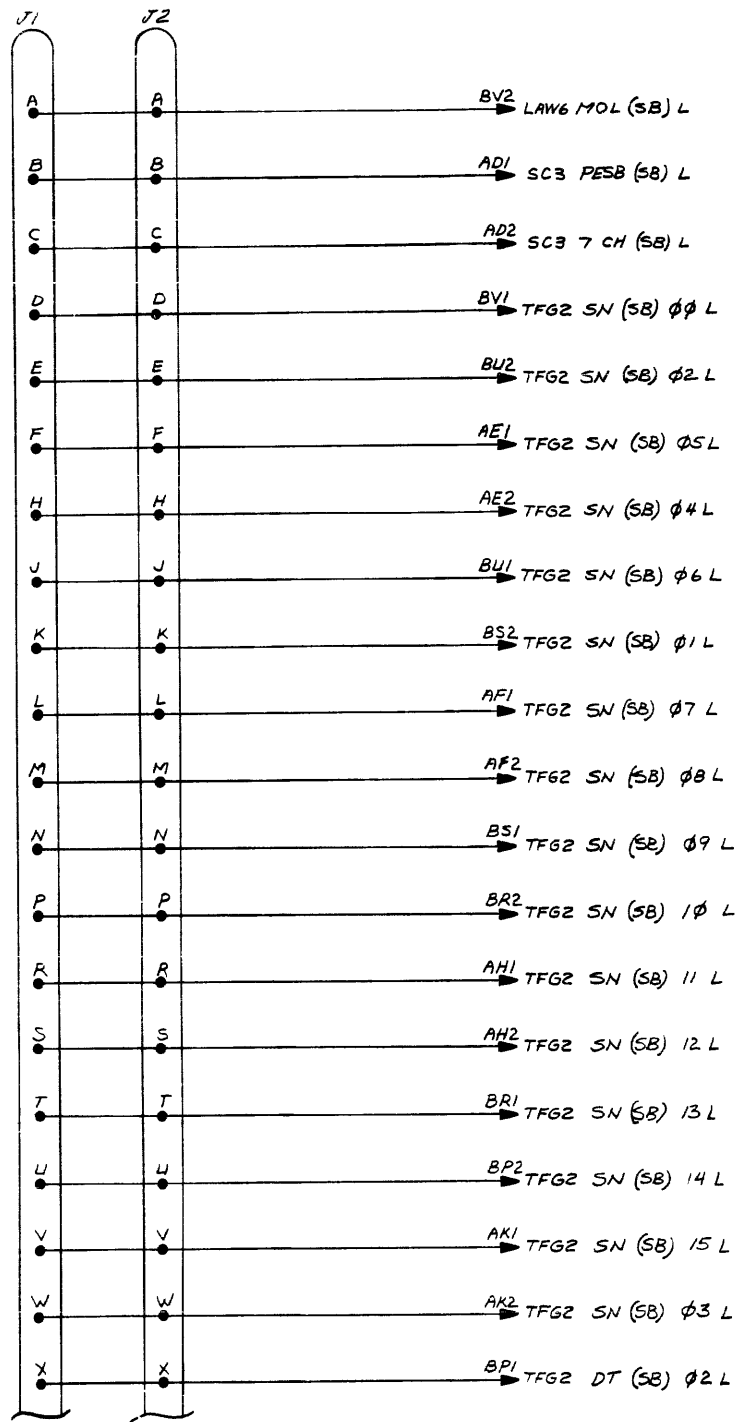


REV.	CHANGE NO.	CHK

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

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

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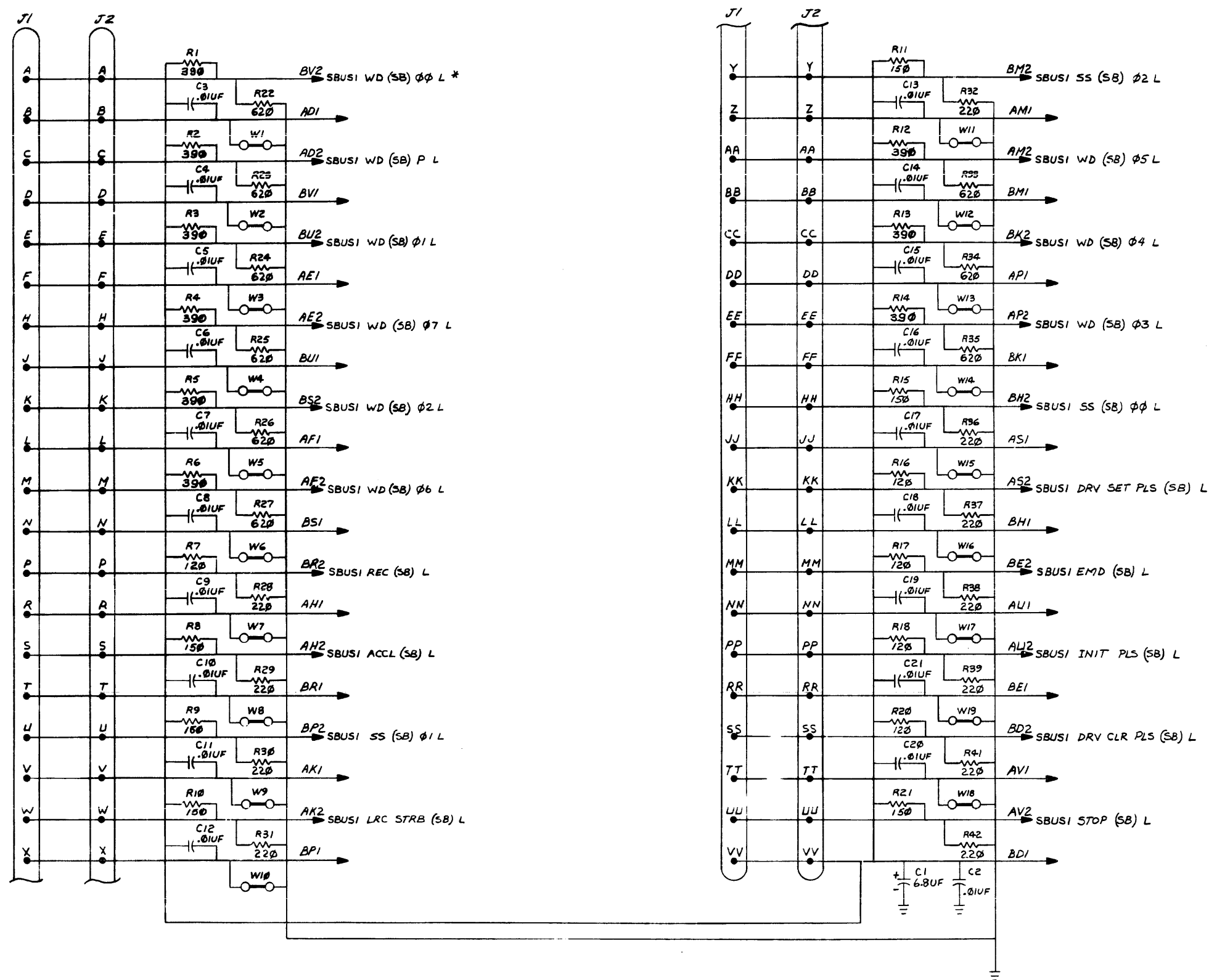


NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO.	REV.

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

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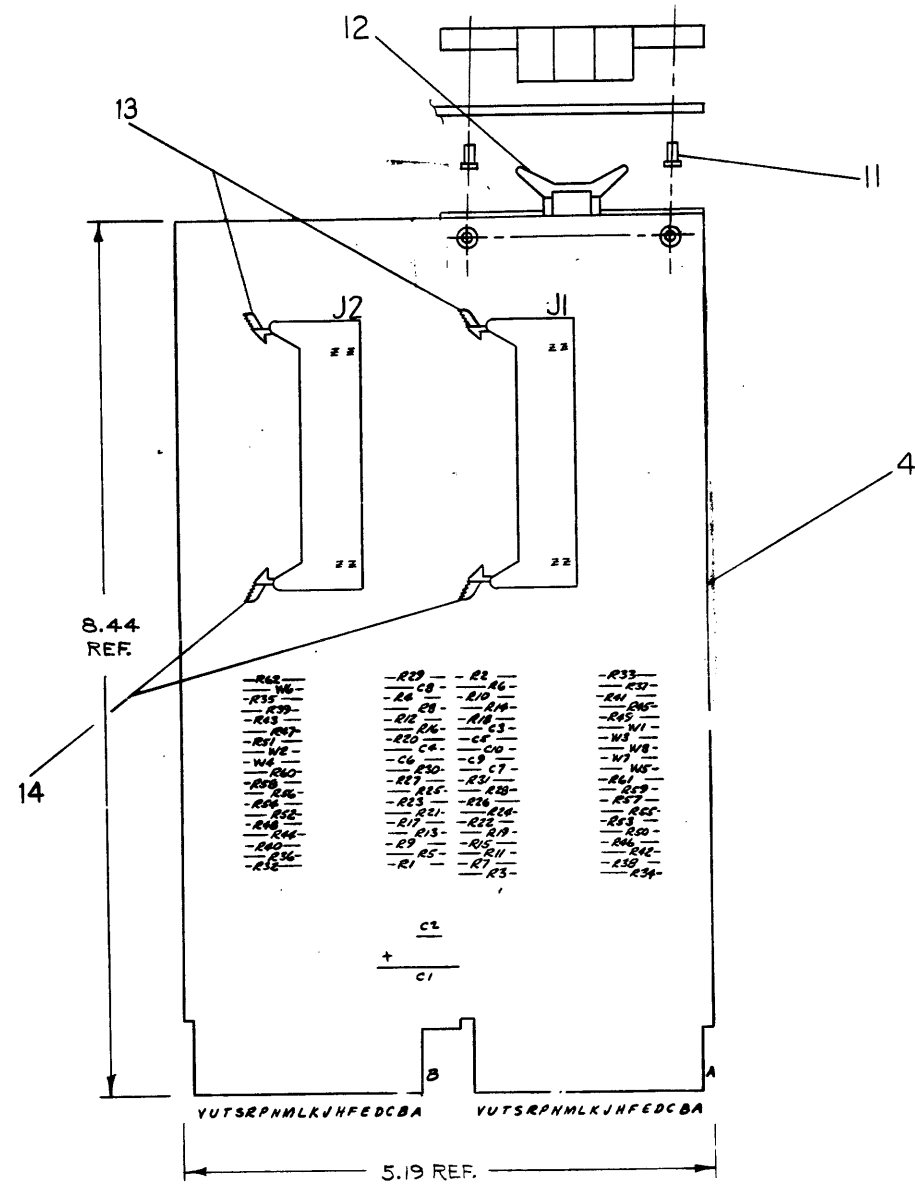
* NOTE: ALL SIGNALS ORIGINATE IN TM02

REVISIONS		
CHK	CHANGE NO	REV

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

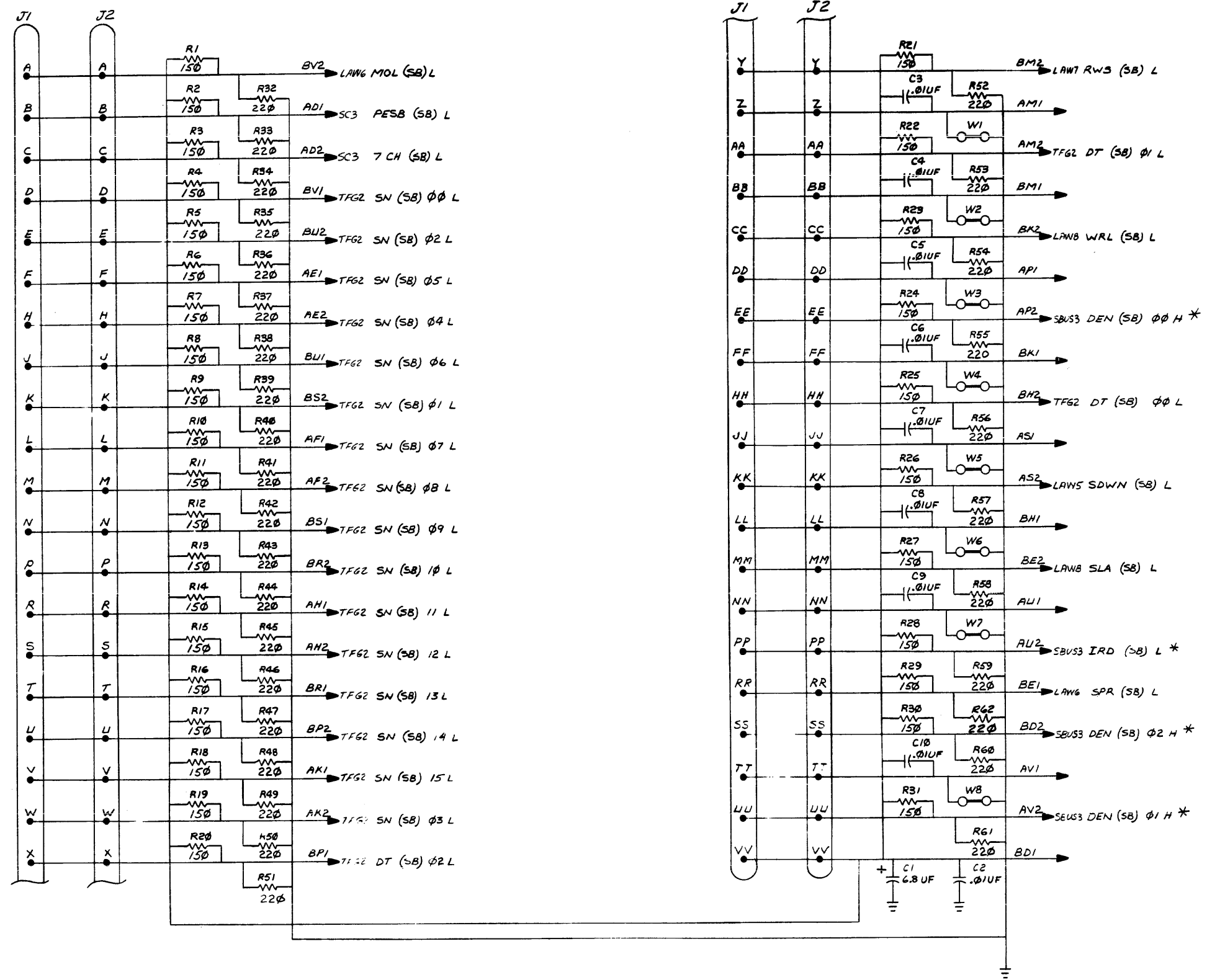
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NOTES:



- R62 -W6
- R63 -W7
- R64 -W8
- R65 -W9
- R66 -W10
- R67 -W11
- R68 -W12
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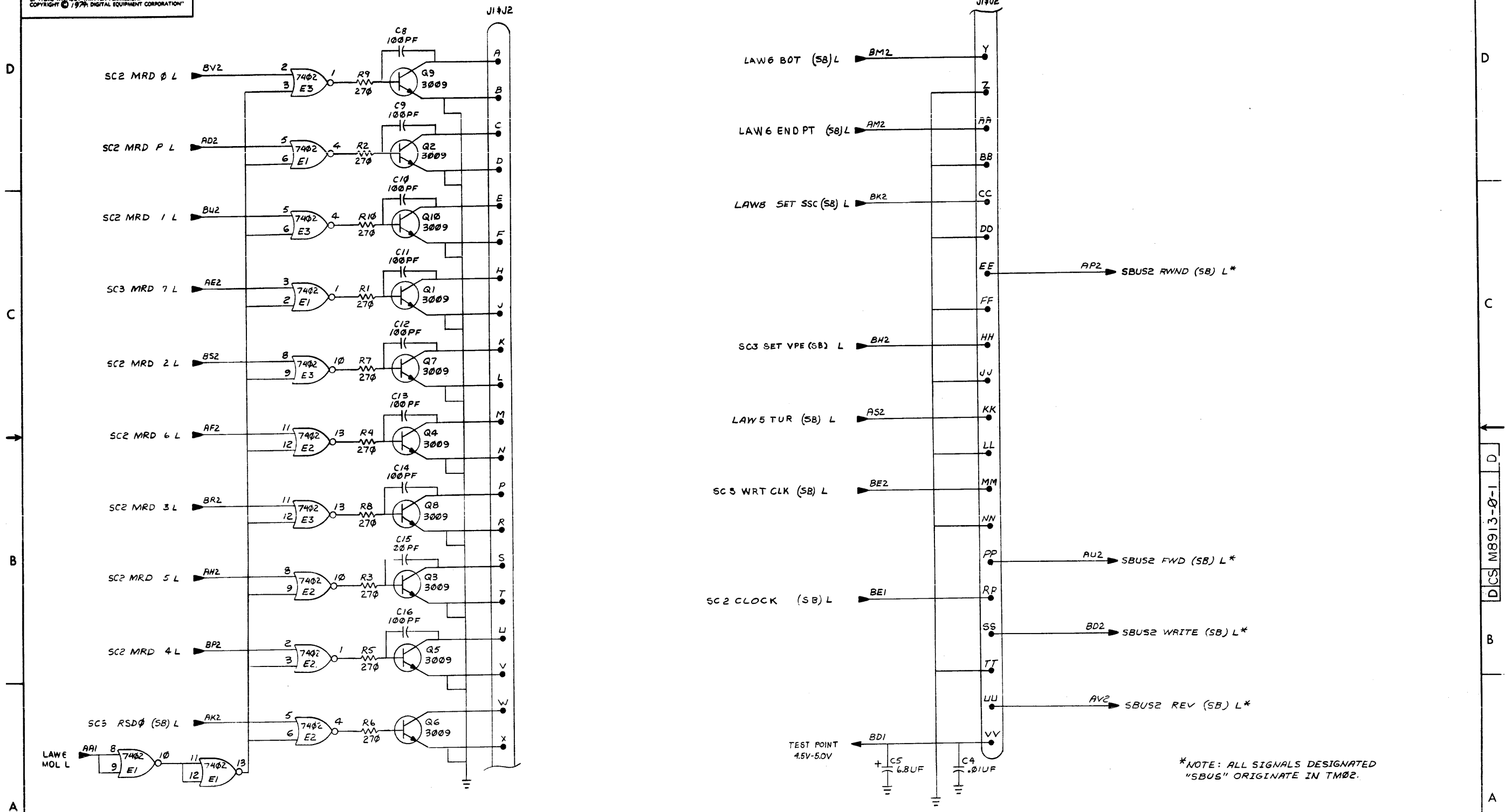


* NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE GEN PURPOSE CARD (E & F)		SIZE CODE DCS	NUMBER M9001-YC-1	REV. C
SCALE 1/16"	SHEET 2	OF 2	DIST.	

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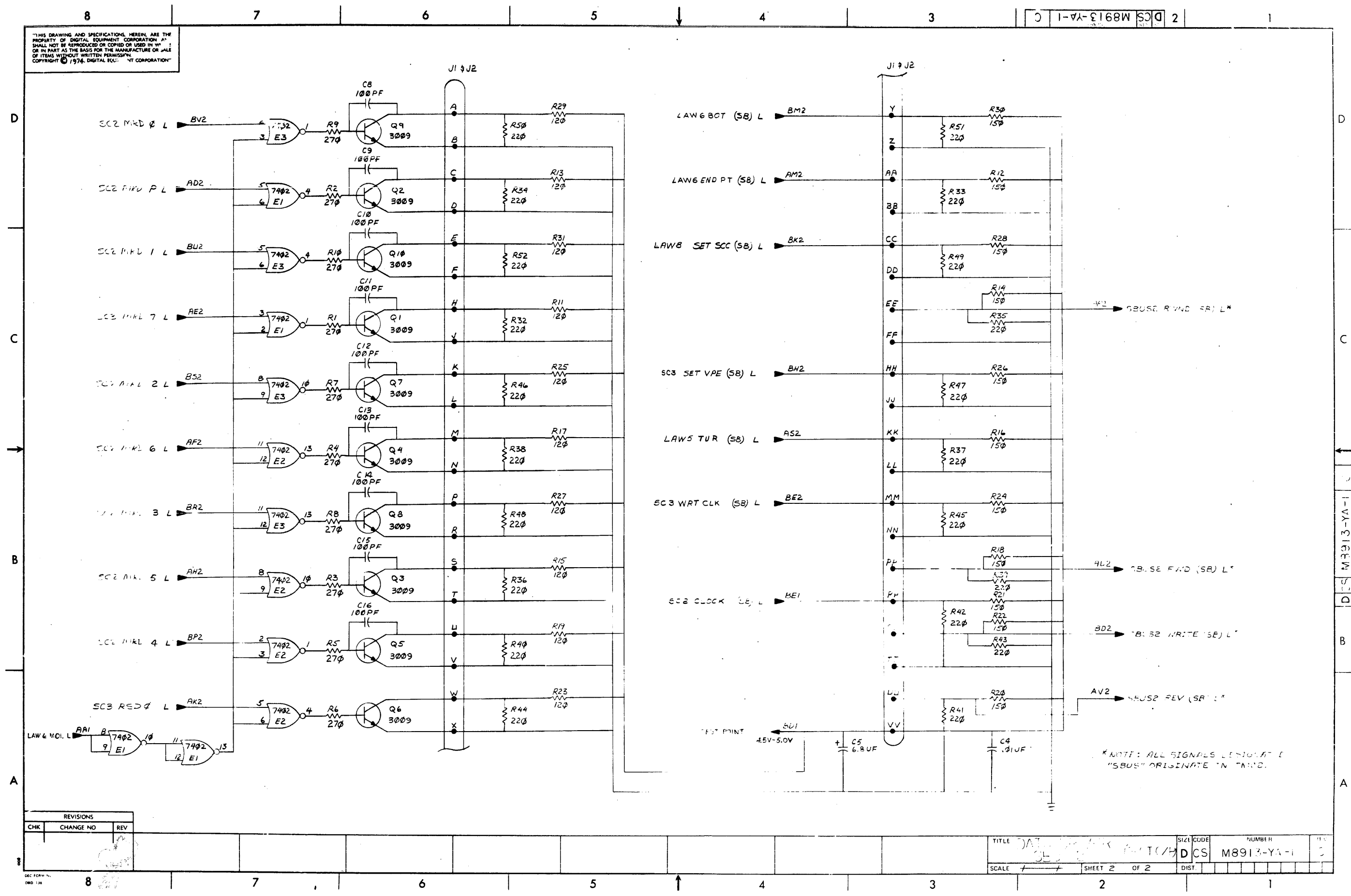


*NOTE: ALL SIGNALS DESIGNATED "SBUS" ORIGINATE IN TM02.

REVISIONS		
CHK	CHANGE NO	REV

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

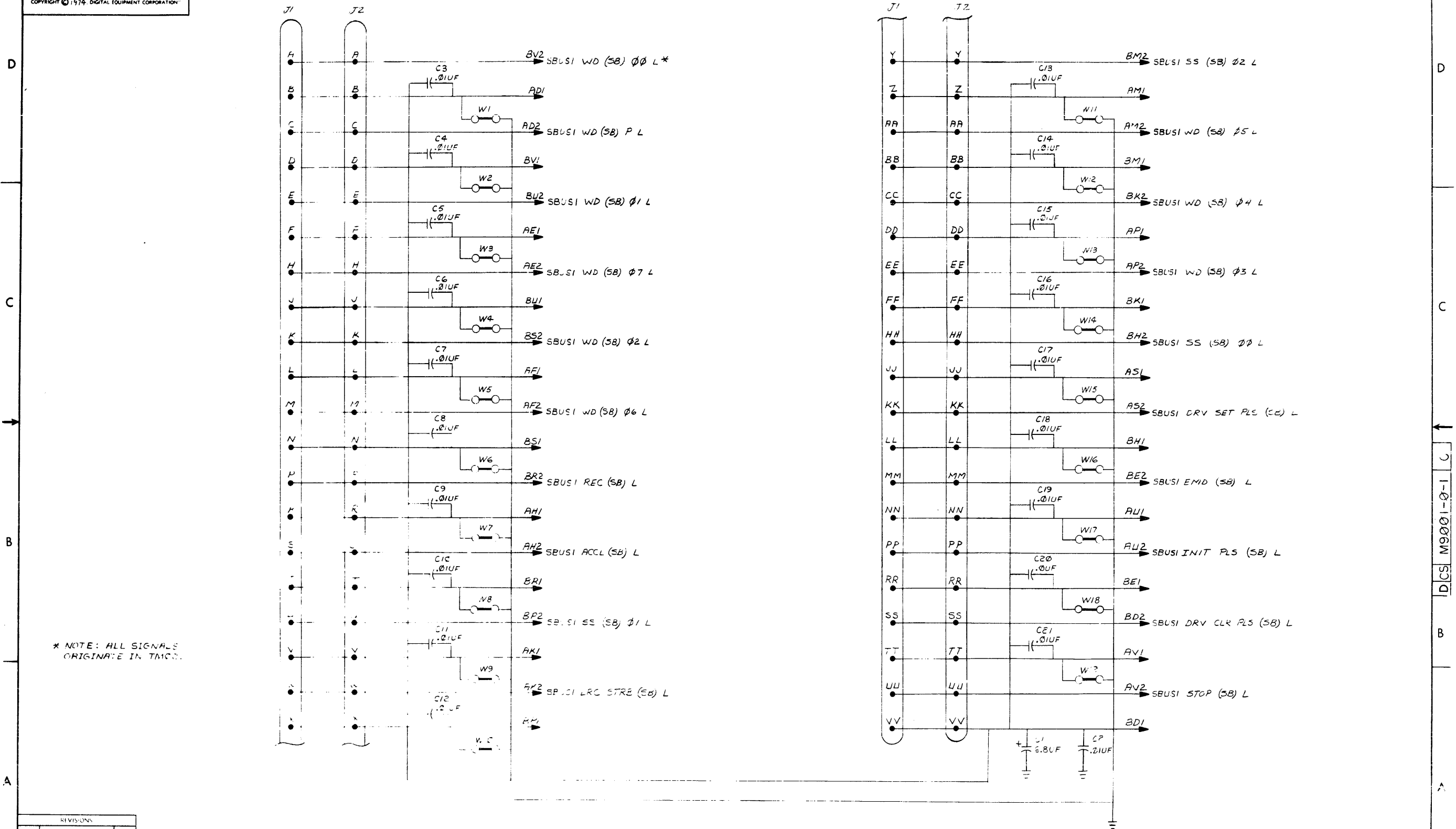
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REVISIONS		
CHK	CHANGE NO	REV

TITLE	DATA BUS CONTROL	SIZE	CODE	NUMBER
SCALE	SHEET 2 OF 2	DIST.	DCS	M8913-YA-1

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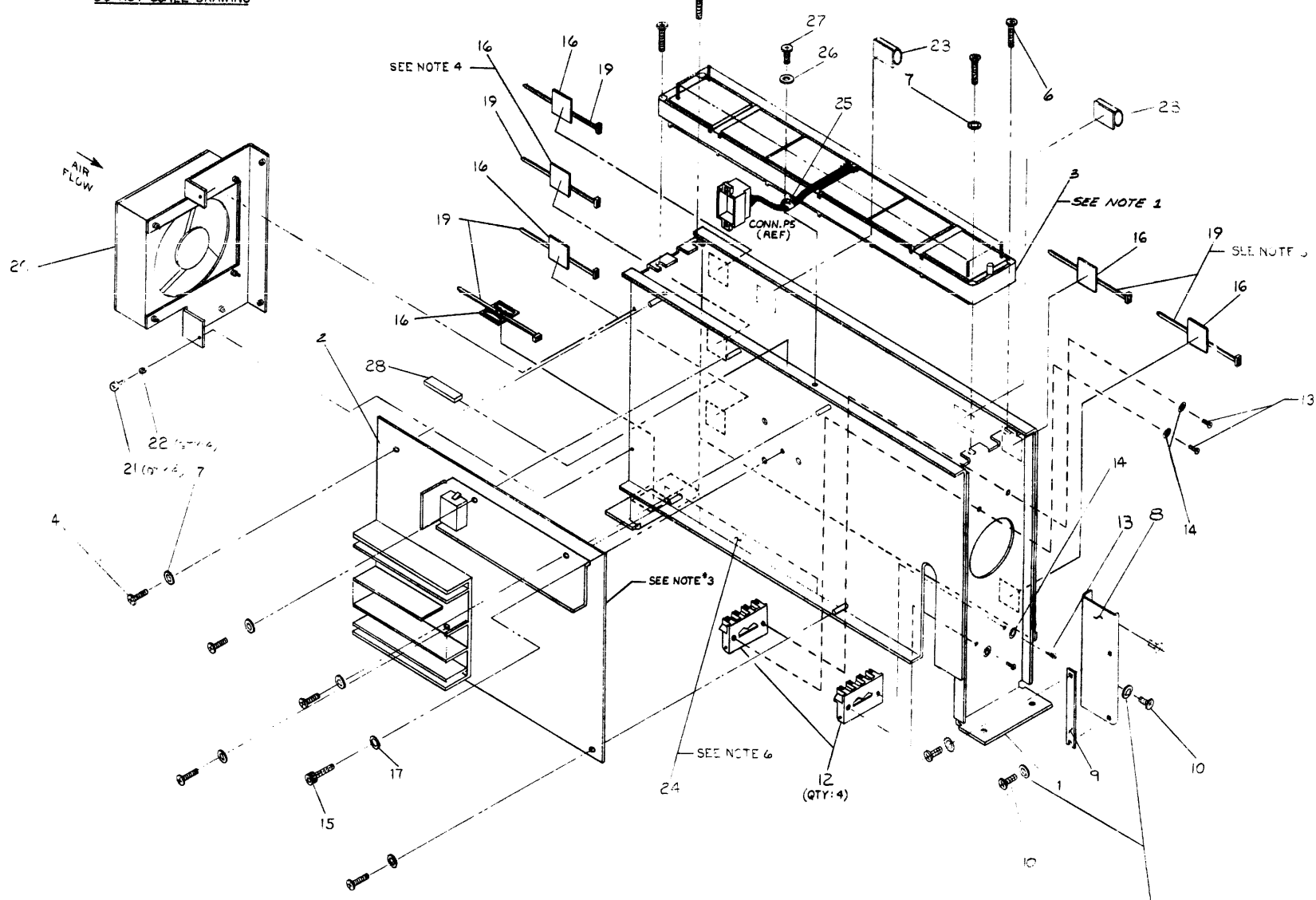


* NOTE: ALL SIGNALS ORIGINATE IN TMSO.

REVISIONS		
CHK	CHANGE NO	REV

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

DO NOT SCALE DRAWING



- 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 THE TWO MOUNTS OF THE DRIERS.
 - INSTALL ITEM 13 THROUGH ALL SETS OF FLANGES ON CHASSIS SURFACE 1.875 IN. FROM PANEL.

QTY	DESCRIPTION	PART NO.	ITEM NO.
1	INDICATED TIME	121372	23
1	SCREW PAN HD 6-32 X 1/2 LG	9006010-1	10
1	WASHER, FLAT #4	9006352	26
1	CLAMP, CABLE 3/8 X 1/8	900713	25
1	WASHER, INT TOOTH LOCK #4	9006632	14
1	SCREW PAN HD 6-32 X 1/2 LG	9006010-1	10
1	WASHER, LOCK #4	9006686	13
1	SCREW PAN HD 4-40 X 3/8 LG	9006012-1	6
1	BRACKET, FAN ASSEMBLY	D-4H-2911	20
6	TIE WRAP	9007032	19
A/R	THERMAL COMPOUND	9008265	18
1	WASHER, SPLIT LOCK #8	9006690	17
6	MOUNT, ADHESIVE BACK	9008164	16
1	SCREW SOCKET HE 8-32 X 1/4	9009464-8	15
1	ELECTROSTATIC SHIELD	1200021	12
8	WASHER, INT TOOTH LOCK #4	9006632	14
6	SCREW PAN HD 6-32 X 1/2 LG	9006010-1	10
4	GUIDE, CABLE & EXTRA TIE	1210399	12
1	SCREW PAN HD 6-32 X 1/2 LG	9006010-1	10
1	PLATE, PRECISURE	CML 109979	1
1	BRACKET, CABLE CLAMP	914711535	8
13	WASHER #6 INT LOCK	9006333	7
4	SCREW PAN HD 6-32 X 1/2 LG	9006010-1	10
5	WASHER #6 INT LOCK	9006333	7
5	SCREW PAN HD 6-32 X 1/2 LG	9006010-1	10
1	LOGIC CHASSIS ASSEMBLY (TU16)	D-4H-7009635-0-0	3
1	P.C. BOARD ASSEMBLY (TU16)	D-4H-7009635-0-0	2
1	LOGIC CHASSIS TU16	D-4H-7009635-0-0	1

REV	DATE	BY	CHKD	DESCRIPTION
1	10/10/68	W. SMITH	W. SMITH	ISSUED FOR PRODUCTION
2	11/10/68	W. SMITH	W. SMITH	REVISED TO ADD PART 12
3	12/10/68	W. SMITH	W. SMITH	REVISED TO ADD PART 13
4	1/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 14
5	2/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 15
6	3/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 16
7	4/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 17
8	5/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 18
9	6/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 19
10	7/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 20
11	8/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 21
12	9/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 22
13	10/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 23
14	11/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 24
15	12/10/69	W. SMITH	W. SMITH	REVISED TO ADD PART 25
16	1/10/70	W. SMITH	W. SMITH	REVISED TO ADD PART 26
17	2/10/70	W. SMITH	W. SMITH	REVISED TO ADD PART 27
18	3/10/70	W. SMITH	W. SMITH	REVISED TO ADD PART 28

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN INCHES. TOLERANCES: .XX ± .005, .XX ± .002, .XX ± .001.

DATE: 10/10/68
 BY: W. SMITH
 CHKD: W. SMITH

SCALE: 1/8" = 1"

SHEET: 1 OF 1

LOGIC ASSEMBLY (TU16)

E-AD-7009635-0-0

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

B

B

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A

A

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

DEC FORM NO
DRB 109

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUI6				
PARTS LIST				
DRN. <i>D. Schmitt</i>	DATE <i>2/20/79</i>	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>		
CHK'D. <i>D. Schmitt</i>	DATE <i>2/24/79</i>			
ENG. <i>J. J. Tice</i>	DATE <i>2-20-79</i>			
PROF. ENG. <i>J. J. Tice</i>	DATE <i>2-20-79</i>			
PROD. <i>W. Smith</i>	DATE <i>5-31-79</i>			
TITLE		WIRE LIST (TUI6)		
NEXT HIGHER ASSEMBLY		D-AD-7009605-0-0		
SCALE <i>1/1</i>	SIZE CODE	NUMBER	REV.	
SHEET	K WL	TUI6-Ø-WL	F	
OF	DIST.			

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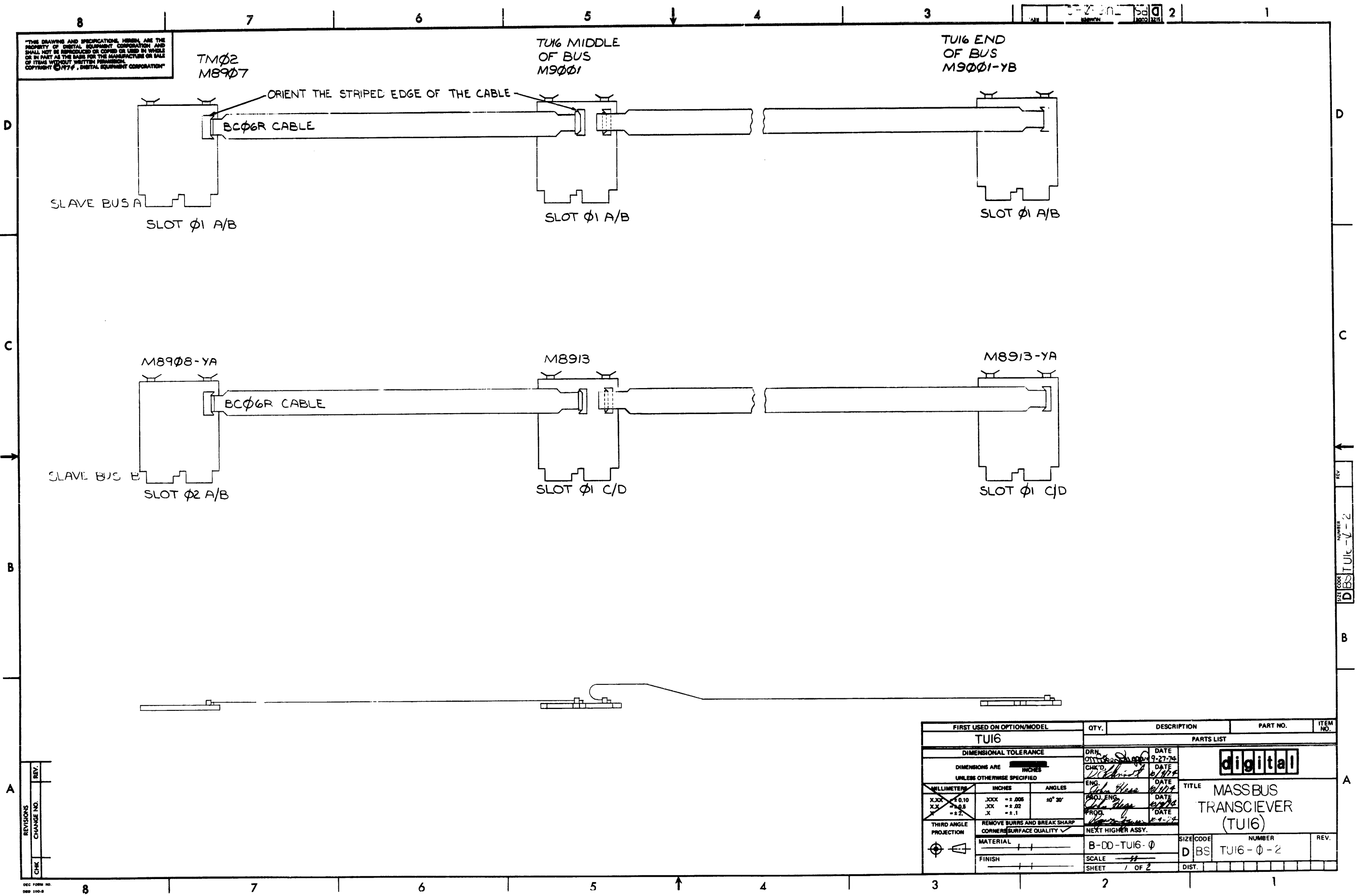
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U16,E UN NAME	WRP288.V34(63)-1	23-AUG-76	Q	DRAW	RV	RG	Y	X	Z	REMARKS	28-OCT-76	0135	PAGE 8	RUN NUMBER
	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z		NC LENGTH EXCEPTIONS FLAG	
EST DATA -A		A03K1		1-01 *							2		1-3/8	96
EST DATA -A		A02C1		1-02 *							1		0-4/8	96
EST DATA -A		A02E1		1-03 *							2		0-1/8	96
EST DATA -A		A02F1		1-04 *							1		0-4/8	96
EST DATA -A		A02J1		1-05 *							2		3-1/8	96
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EST DATA -A				1									5-5/8 1400000000	96
EST DATA -B		A03J1		1-01 *							2		3-5/8	97
EST DATA -B		B02U1		1-02 *							1		1-2/8	97
EST DATA -B		B02R1		1-03 *							2		0-1/8	97
EST DATA -B		B02P1		1-04 *							1		2-7/8	97
EST DATA -B		C02M2		1-05 *										97
EST DATA -B				1									7-7/8 1400000000	97
EST DATA A		A03L2											1-1/8 Run	98
EST DATA A		A03M1											1-PIA NJ	99
EST DEN H		A03T2		1-01 *							1		4-3/8	100
EST DEN H		C03C1		1-02 *										100
EST DEN H				1									4-3/8 1400000000	100
EST PE H		B03L2		1-01 *							1		2	101
EST PE H		C03B2		1-02 *										101
EST PE H				1									2-4/8 1400000000	101
ESTER ENBL L		B03M1		1-01 *							1		4-7/8	102
ESTER ENBL L		D02D2		1-02 *										102
ESTER ENBL L				1									4-7/8 1400000000	102
ESTER GND		B03M1		1-01 *							1		0-4/8	103
ESTER GND		B03P1		1-02 *							2		0-5/8	103
ESTER GND		B03T1		1-03 *							1		0-1/8	103
ESTER GND		B03U1		1-04 *							2		0-1/8	103
ESTER GND		B03V1		1-05 *										103
ESTER GND				1									1-3/8 1400000000	103
JR (SB) L		C01S2		1-01 *							1		4-1/8	104
JR (SB) L		B02K2		1-02 *										104
JR (SB) L				1									4-1/8 1400000000	104
J (SB) 04 L		B01V2		1-01 *							1		1	105
J (SB) 04 L		B02V2		1-02 *										105
J (SB) 04 L				1									1-0/8 1400000000	105
J (SB) 01 L		B01U2		1-01 *							1		1	106
J (SB) 01 L		B02U2		1-02 *										106
J (SB) 01 L				1									1-0/8 1400000000	106
J (SB) 02 L		B01S2		1-01 *							1		1	107
J (SB) 02 L		B02S2		1-02 *										107
J (SB) 02 L				1									1-0/8 1400000000	107

J16,E UN NAME	WRP288.V34(63)-1	23-AUG-76	Q	DRAW	RV	RG	Y	X	Z	REMARKS	28-OCT-76	0135	PAGE 9	RUN NUMBER
	A/P	PIN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z		NC LENGTH EXCEPTIONS FLAG	
J (SB) 03 L		A01P2		1-01 *							1		3-7/8	108
J (SB) 03 L		B02M2		1-02 *										108
J (SB) 03 L				1									3-7/8 1400000000	108
J (SB) 04 L		B01R2		1-01 *							1		1-1/8	109
J (SB) 04 L		B02P2		1-02 *										109
J (SB) 04 L				1									1-1/8 1400000000	109
J (SB) 05 L		A01M2		1-01 *							1		1-1/8	110
J (SB) 05 L		A02M2		1-02 *										110
J (SB) 05 L				1									1-1/8 1400000000	110
J (SB) 06 L		A01P2		1-01 *							1		1	111
J (SB) 06 L		A02P2		1-02 *										111
J (SB) 06 L				1									1-0/8 1400000000	111
J (SB) 07 L		A01L2		1-01 *							1		1	112
J (SB) 07 L		A02E2		1-02 *										112
J (SB) 07 L				1									1-0/8 1400000000	112
J (SB) P L		A01D2		1-01 *							1		1	113
J (SB) P L		A02D2		1-02 *										113
J (SB) P L				1									1-0/8 1400000000	113
IIE (SB) L		A02U1		1-01 *							1		6-7/8	114
IIE (SB) L		D01M2		1-02 *										114
IIE (SB) L				1									6-7/8 1400000000	114
IIE ENABL H		D02S1		1-01 *							2		1	115
IIE ENABL H		D03S1		1-02 *							1		0-1/8	115
IIE ENABL H		F04S1		1-03 *										115
IIE ENABL H				1									7-1/8 1400000000	115
IL (SB) L		B02M2		1-01 *							1		11-1/8	116
IL (SB) L		F01K2		1-02 *										116
IL (SB) L				1									11-1/8 1400000000	116
IT CLK (SB) L		D03M2		1-01 *							1		1-0/8	117
IT CLK (SB) L		D01E2		1-02 *										117
IT CLK (SB) L				1									1-0/8 1400000000	117
IT CLK TEST ENB L		B03H1		1-01 *							1		5	118
IT CLK TEST ENB L		D03A1		1-02 *										118
IT CLK TEST ENB L				1									5-0/8 1400000000	118

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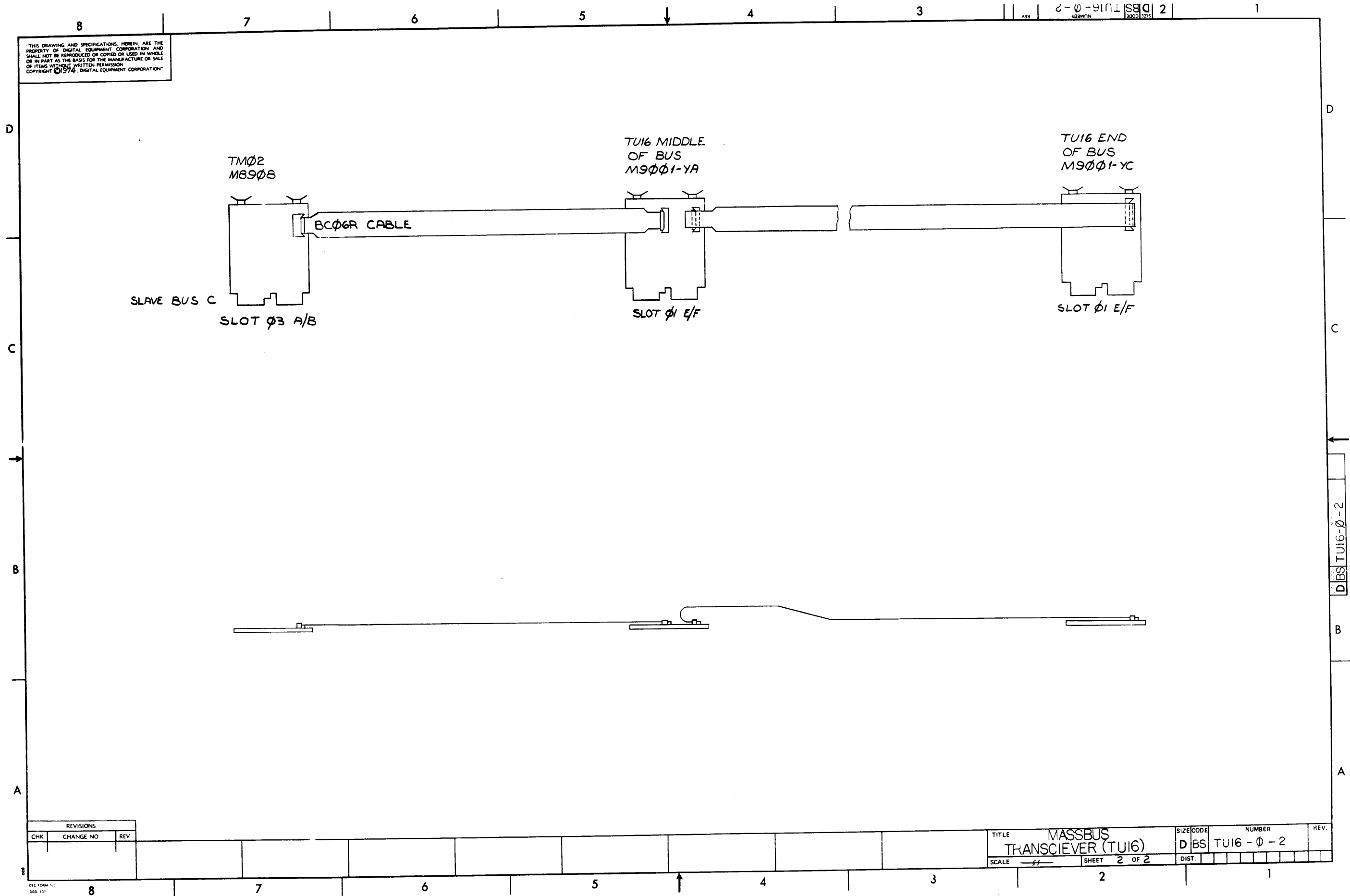


REV.	CHG	NO.

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
TUI6					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE INCHES		DRN.	DATE	digital	
UNLESS OTHERWISE SPECIFIED		CHK'D.	DATE		
MILLIMETERS	INCHES	ENG.	DATE	TITLE MASSBUS TRANSCIEVER (TUI6)	
X.XX ± 0.10	.XXX ± .005	PROJ. ENG.	DATE		
X.X ± 0.5	.XX ± .02	PROJ.	DATE	SIZE CODE NUMBER REV.	
X ± .2	.X ± .1		DATE		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓	NEXT HIGHER ASSY.		D BS TUI6-φ-2	
MATERIAL	FINISH	SCALE		DIST.	
		B-DD-TUI6-φ		1 OF 2	
		SHEET		1	

REV. NUMBER
D BS TUI6-φ-2

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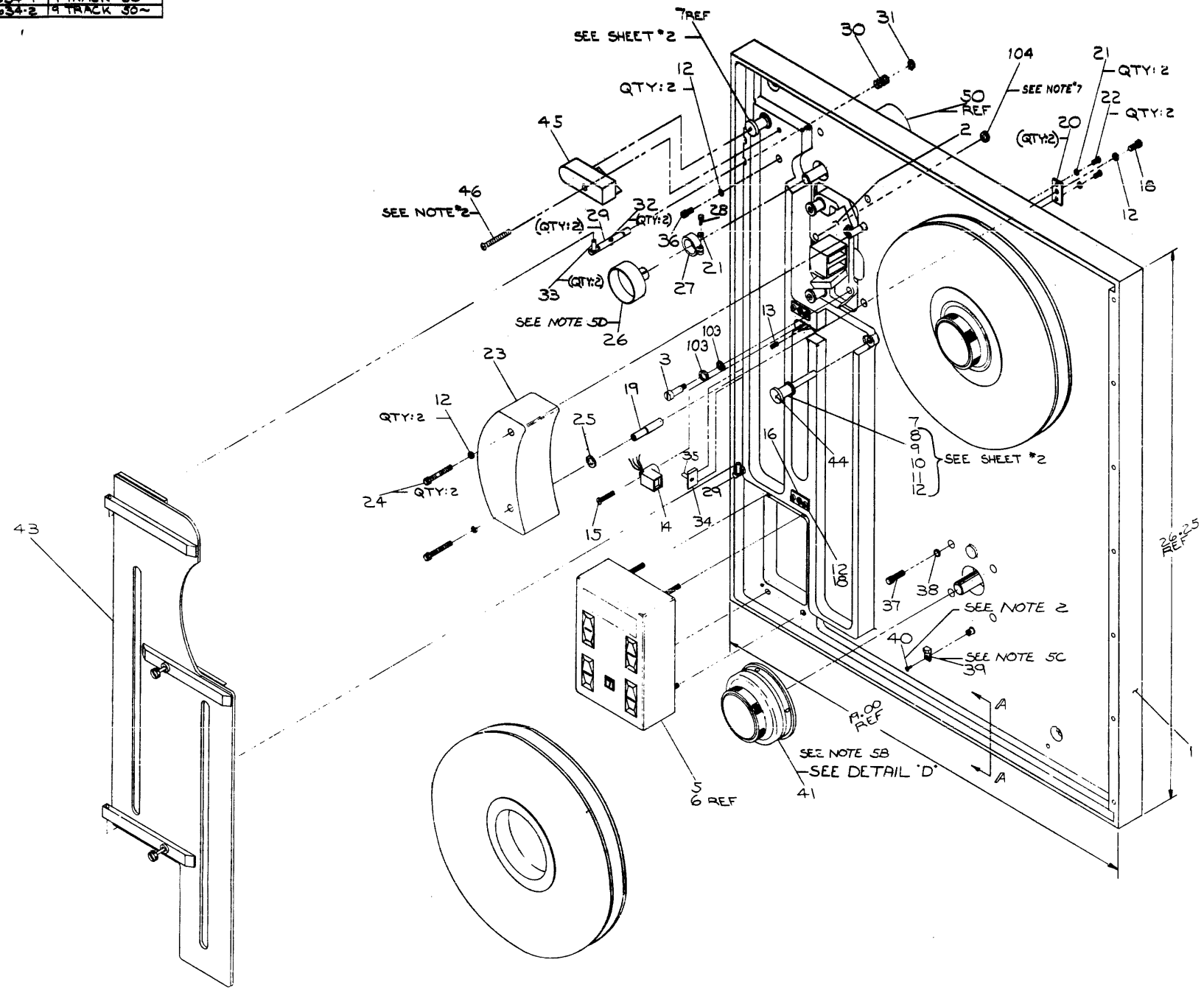


REVISIONS		
CHK	CHANGE NO	REV

TITLE	MASSBUS TRANSCIEVER (TUI6)	SIZE CODE	D BS	NUMBER	TUI6 - Ø - 2	REV.	
SCALE	ff	SHEET	2 OF 2	DIST.			

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LEGEND	
NUMBER	VARIATION
7009634-1	9 TRACK 60~
7009634-2	9 TRACK 30~



- NOTES:**
- FOR HARNESS CONNECTIONS, WIRING REFER TO SHEET #5.
 - THESE ITEMS TO BE COATLACED AND LOCKTITE AT ASSY.
 - THESE ITEMS TO HAVE THREAD COATED WITH TEFLON PLUMBERS TAPE.
 - THESE ITEMS TO BE CEMENTED IN PLACE AT ASSY USING HYBOND GME: V.
 - GAGES REQUIRED:
 - ROLLER GUIDE GAGE #905463
 - HUB GAGE #905461
 - READ WRITE REEL GAGE #905494
 - CAPSTAN GAGE #905606
 - REELS (ITEMS 1 & 2) ARE SUPPLIED AT UNIT ASSY.
 - PRECISION SPACERS (3 REQ) THICKNESS PER SPEC. A-SP-TU16-0-4
 - INSTALL FOAM FILTER, MEDIUM.
 - INSTALL PLUG FILTER.
 - INSTALL FOAM FILTER, SMALL.
 - INSTALL FOAM FILTER, LARGE.
 - USE UNTAPPED HOLE APPROXIMATELY 3-1/4 IN. FROM SURFACE MARKED Z.
 - INSTALL HEAD PLUG FILTER.
 - PUT 3 EXT. STAR WASHER ON BOTH SIDES OF GROUND STRAP.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

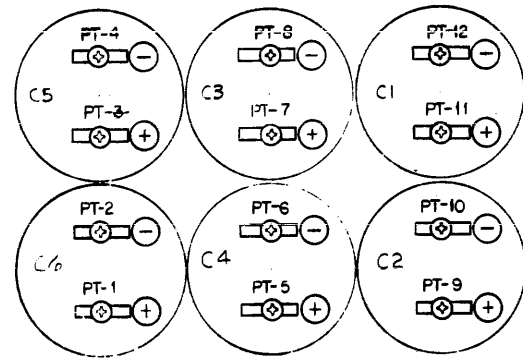
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
TU16				
DIMENSIONAL TOLERANCE				
DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED				
FINISH	INCHES	ANGLES	DATE	
PROL. ENG.			DATE	
PROD. ENGR.			DATE	
INSPECTION			DATE	
TYPICAL PRODUCTION				
REMOVE BURRS AND BREAK SHARP CORNERS TO SURFACE QUALITY				
NEXT HIGHER ASSY.				
MATERIAL				
SEE PARTS LIST				
FINISH				
SCALE				
SHEET OF 2				
DISTRIBUTION				

DATE	DATE	DATE	DATE
11/1/67	11/1/67	11/1/67	11/1/67
11/1/67	11/1/67	11/1/67	11/1/67
11/1/67	11/1/67	11/1/67	11/1/67

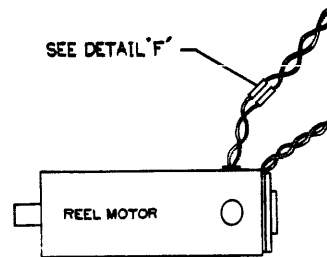
TITLE
TAPE TRANSPORT
ASSY

SIZE CODE NUMBER
D: UA-TU16-0-0
E: AD 7009634-0-C

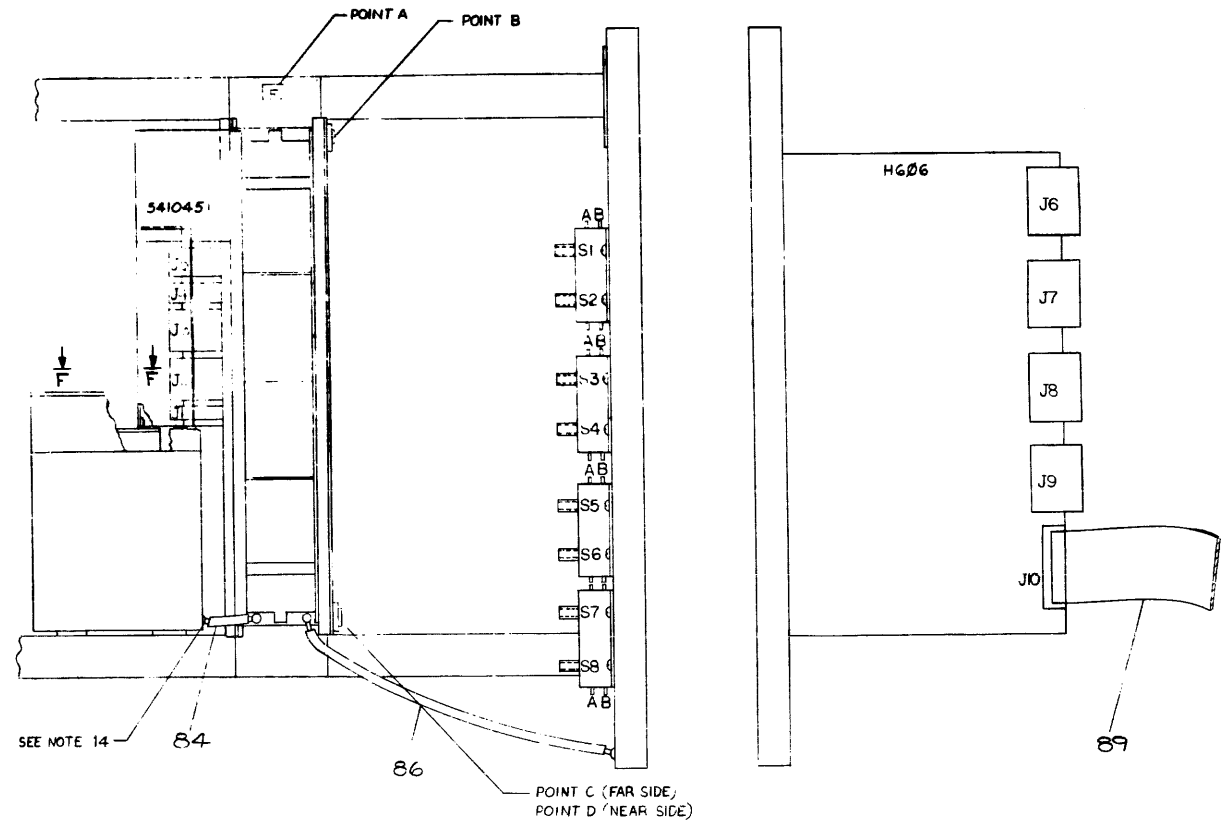
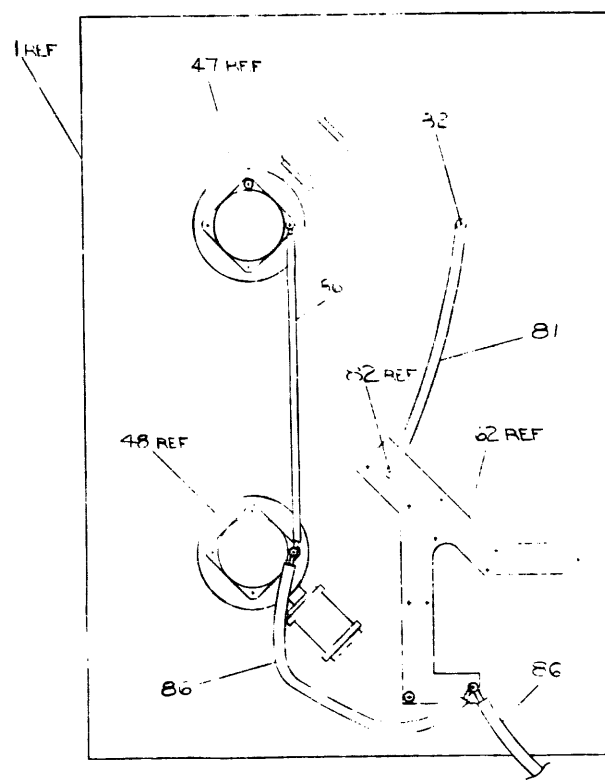
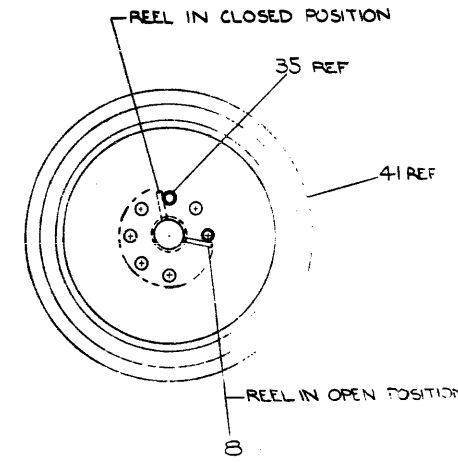
7009634-0-C



TOP VIEW F-F
SHOWN WITH CAPACITOR
GUARD REMOVED



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



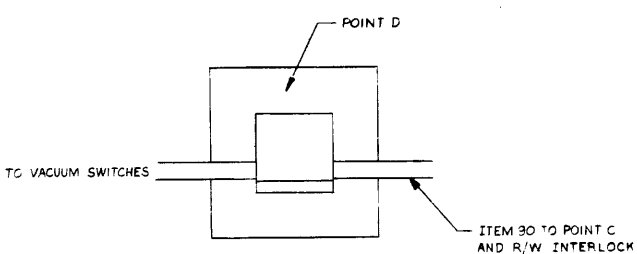
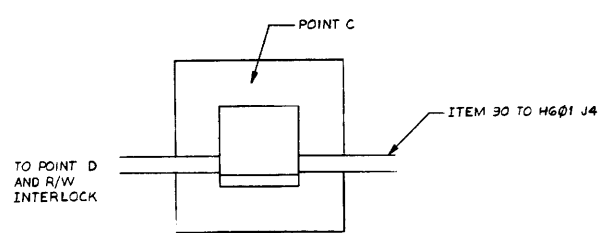
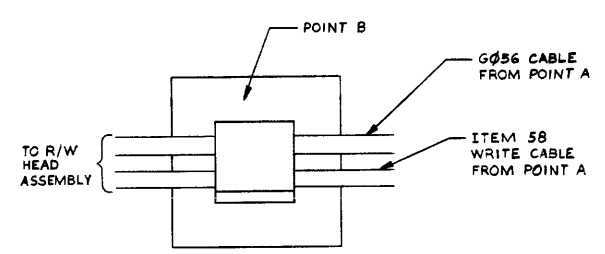
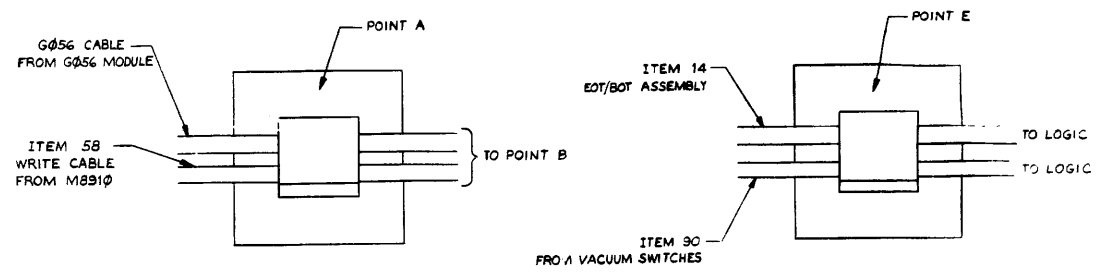
REV	REVISIONS

TITLE	NUMBER	REV
TAPE TRANSPORT ASSY	7009634-0-C	1

7009634-0-0

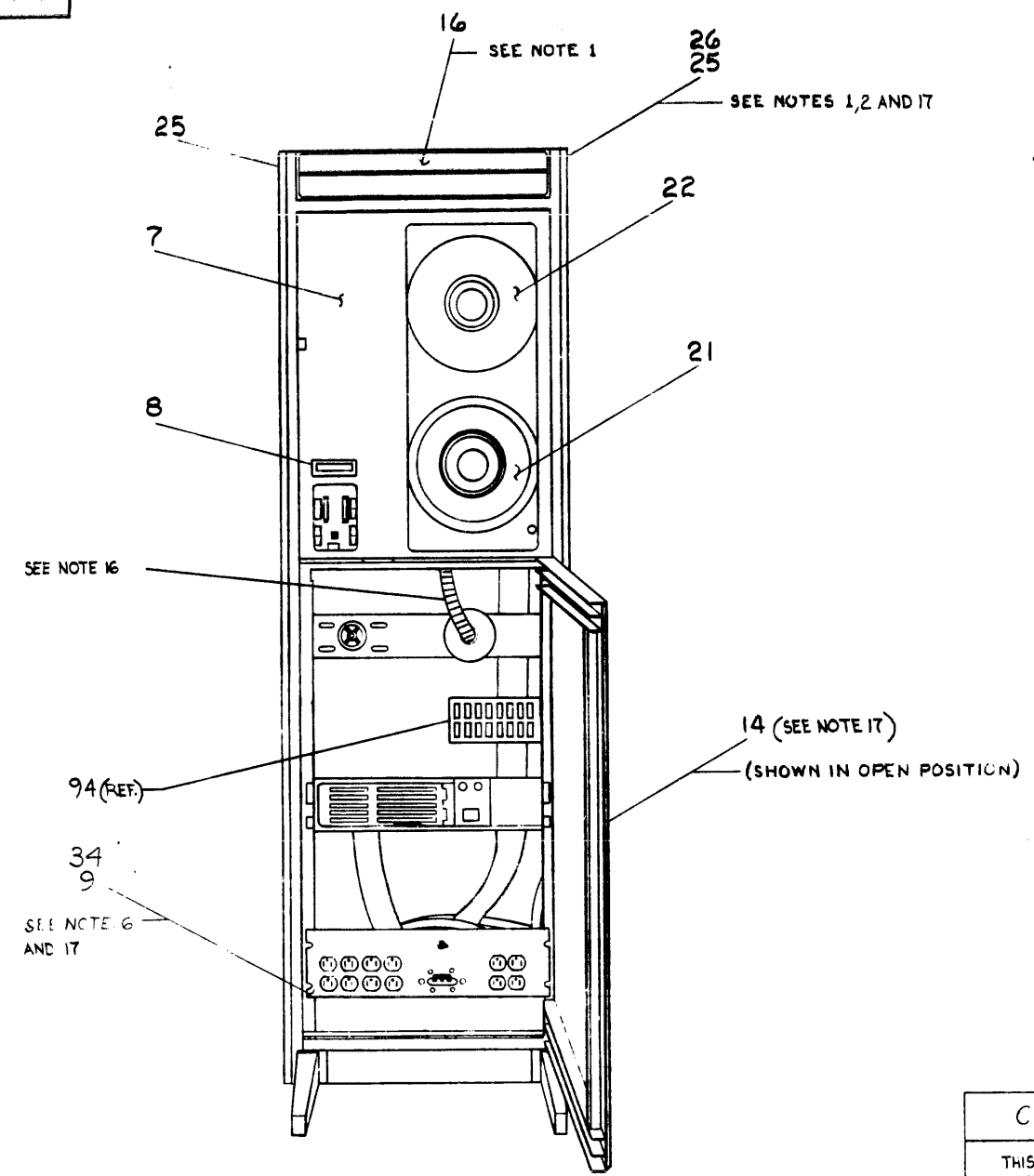
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ITEM NO	DESCRIPTION	FROM		TO		TIE DOWN POINT (SEE NOTE B)	REMARKS
		CONNECTION	WITH	CONNECTION	WITH		
22	WHT/YEL	VAC SW HARN - TB-1		VAC SW S1-A		B	
18	BLK	- TB-2		S1-B			
22	WHT/GRY	- TB-3		S2-A		D	
18	BLK	- TB-4		S2-B			
22	WHT/YEL	- PT-18		LOGIC 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			
16	BLK	- E-17		ITEM 92 DEC PLATE - GND		105	
		- P13		R/W INTERLOCK - J13		C	
		VAC SW HARN - P4		HG06 J9		C	
14	BLU	CAP. HARN - TB-1		CAPACITOR BANK PT-11			
	BLK	TB-2		PT-12			
	WHT	TB-3		PT-8			
	BLK	TB-4		PT-7			
	BLK	TB-5		PT-4			
	BRN	TB-6		PT-3			
	BLK	TB-7		PT-2			
	RED	TB-8		PT-1			
	BLK	TB-9		PT-6			
	VIO	TB-10		PT-5			
	BLK	TB-11		PT-10			
14	YEL	TB-12		PT-9			
		CAP. HARN - P3		54-12242 J3			
5		CONT BOX CABLE		M8910 J1			
68		LOGIC ASSY - P5		54-12242 J5			
69		TRANSFORMER - P2		54-12242 J2			
89		BC05 L		HG06 J10			
		BC05 L		M8910 J2			
92		SERVO BD HARN - P4		54-12242 J4			
		SERVO BD HARN - P7		HG06 J7			
	RED	EOT/BOT ASSEMBLY		LOGIC		E	
	ORN	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		M8910 J3		A	
		WRITE CABLE		R/W HEAD ASSEMBLY		B	



REVISIONS		
CHK	CHANGE NO.	REV.

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

NUMBER	VARIATION	
	DESCRIPTION	VOLTAGE
TU16-EE	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE/NRZI	115V, 60HZ
TU16-EF	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE/NRZI	230V, 60HZ
TU16-EH	MAG TAPE SLAVE UNIT 45 IPS 9 TRACK PE/NRZI	115V, 60HZ
TU16-EJ	MAG TAPE SLAVE UNIT 45 IPS 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, 60HZ
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 THROUGH-AJ	TU16 IN H9500 SERIES CAB (CORP. CAB) SEE SHEETS 5.3.6	

- 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 DNG 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) TIGHTEN NUT, SCREW, AND WASHER MOUNT ON RIGHT SIDE REAR HOLE *10. ROUTE CORD THROUGH CLAMP AND TO 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 ON 861. USE TWO FLAT WASHERS ((ONE) PER CLAMP).
 - 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.
 - USE BLACK TUBING T. CODE - 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.

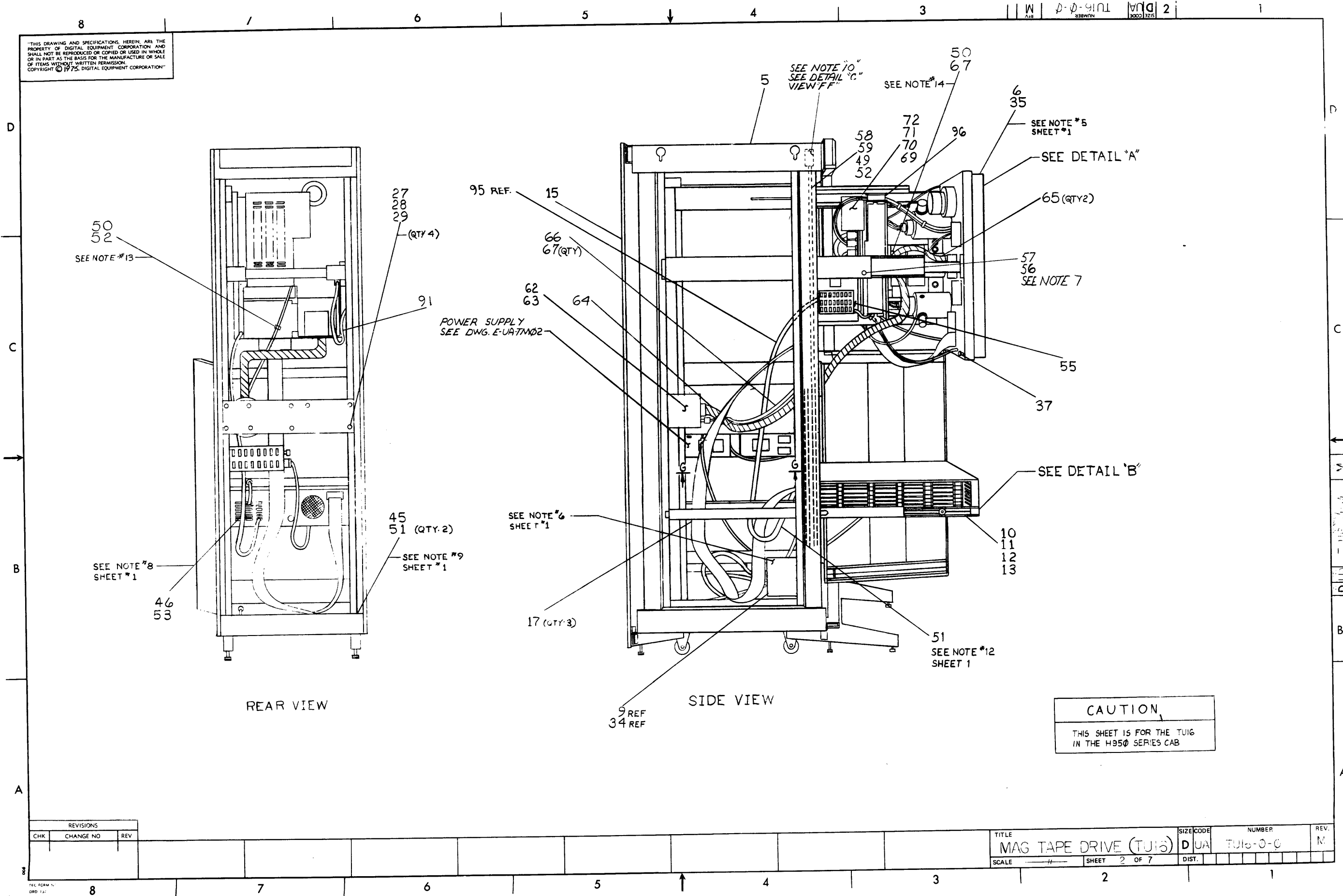
- INSERT 5 ITEM *49'S (NOT SHOWN) IN LEFT SIDE, FRONT HOLES NUMBERS 68, 76, 90, 100, AND 106. USE 5 TIE WRAPS (ITEM *52, NOT SHOWN) TO SECURE HARNESS TO CAB. ROUTE CAB FAN HARNESS THRU 861 POWER CONTROL, FAN BOX AND INTO SWITCHED PLUG ON 861 BOX.
- FASTEN TWO ITEM *50'S TO UNDER SIDE OF CAB ROOF AND 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.

FRONT VIEW

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

THIRD ANGLE PROJECTION	DRM. W. DUGGAN 8-21-74	FIRST USED ON	TU16
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D D. SCHMIDT 9-24-74	TITLE	MAG TAPE DRIVE (TU16)
DO NOT SCALE DWG	ENG. J. BARDONE 9-24-74	PROD. R. GOGUEN 10-2-74	
MATERIAL	6-DD-TU16-0	SIZE	D
FINISH		CODE	UA
		NUMBER	TU15-0-0
		REV.	M

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CAUTION
THIS SHEET IS FOR THE TU13
IN THE H950 SERIES CAB

REVISIONS		
CHK	CHANGE NO	REV

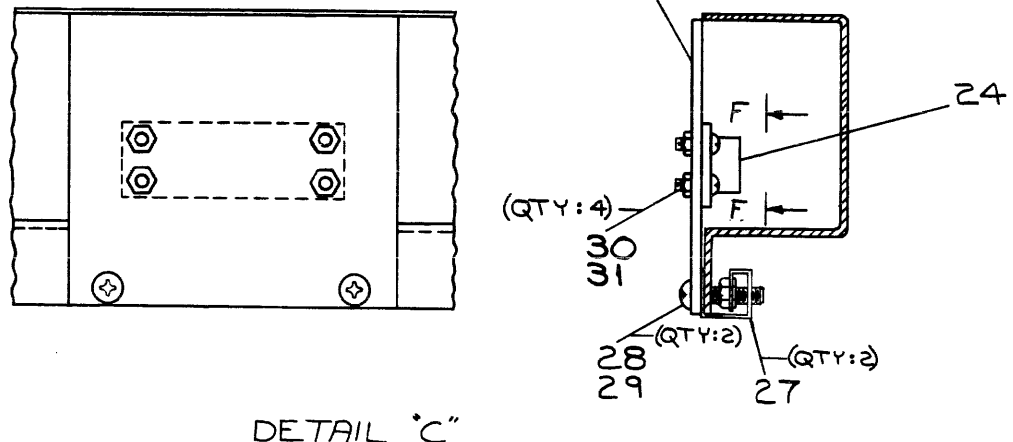
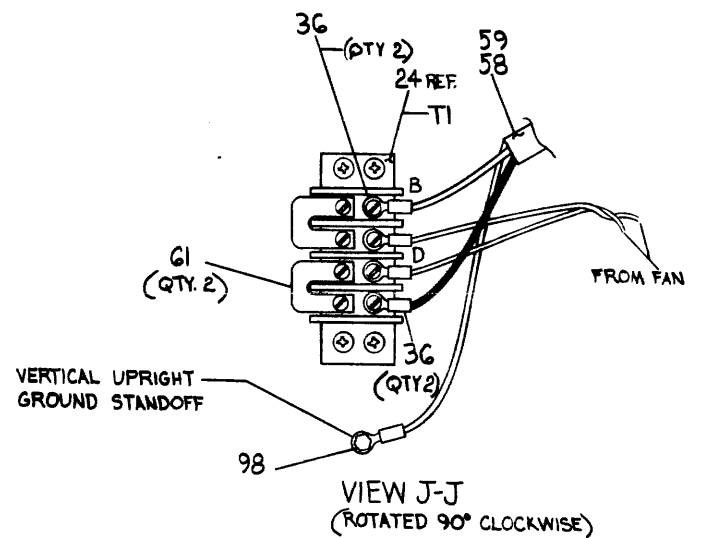
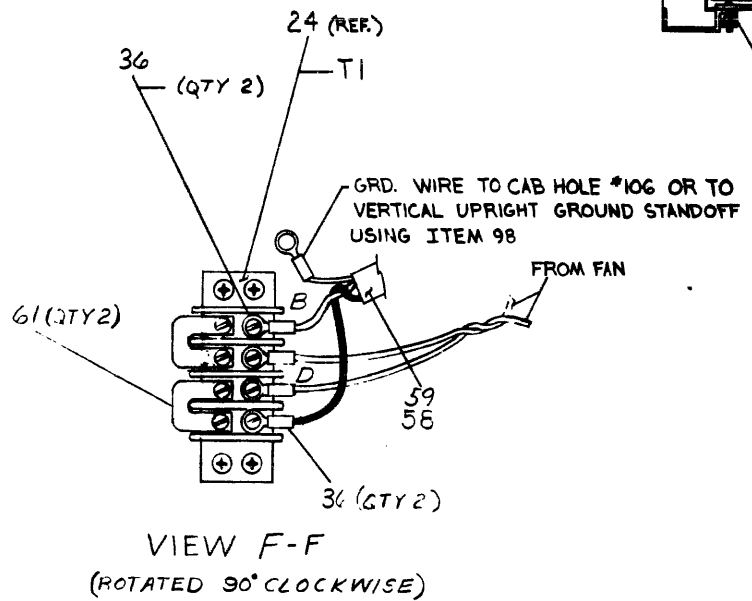
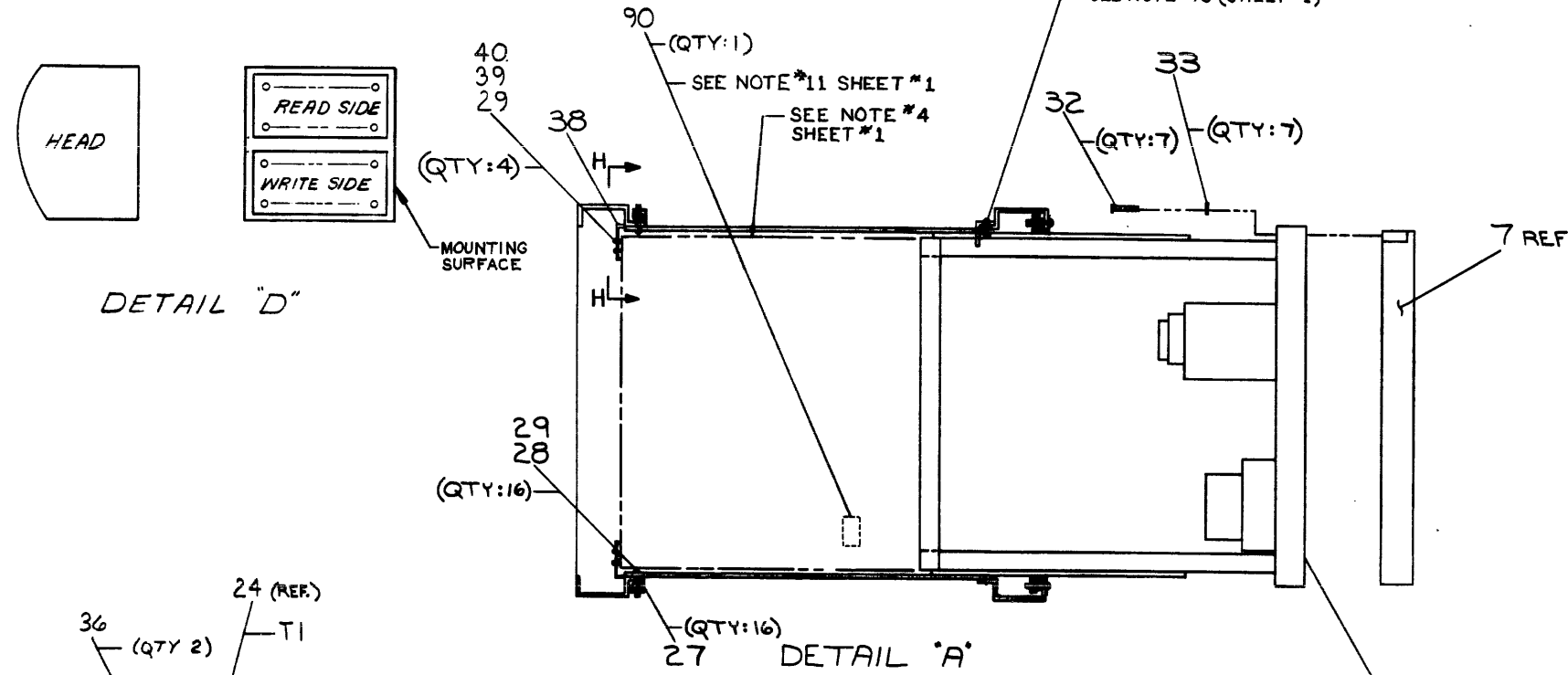
TITLE	SIZE CODE	NUMBER	REV.
MAG TAPE DRIVE (TU13)	D UA	TU13-0-0	M
SCALE	SHEET	OF	DIST.
	2	7	

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CABLE CHART						
ITEM NO	DESCRIPTION	FROM	TO	REMARKS		
54	---	B61 ROVER BOX	PLUG	T1-B	PT-2	
58	---			T1-D	PT-1	
5	---	FAN-1		T1-A	ITEM 36	
18	---	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: 813, 32*, 33*, 103, 104, 105, 106	RIGHT SIDE: 32*, 33*, 53, 60
LEFT SIDE: 813, 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.

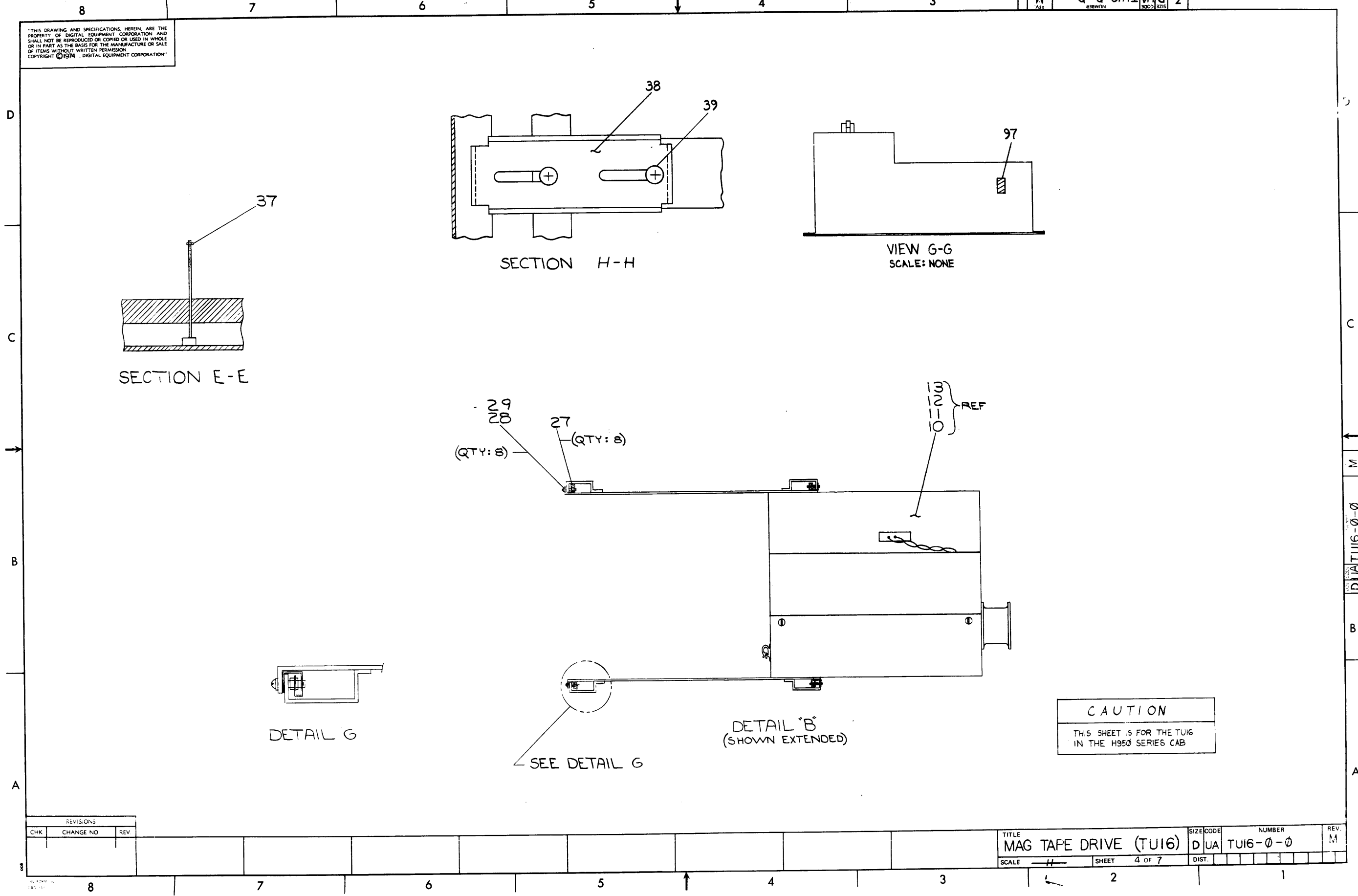


CAUTION
 THIS SHEET IS FOR THE TUIG IN THE H95Ø SERIES CAB

REVISIONS		
CHK	CHANGE NO.	REV.

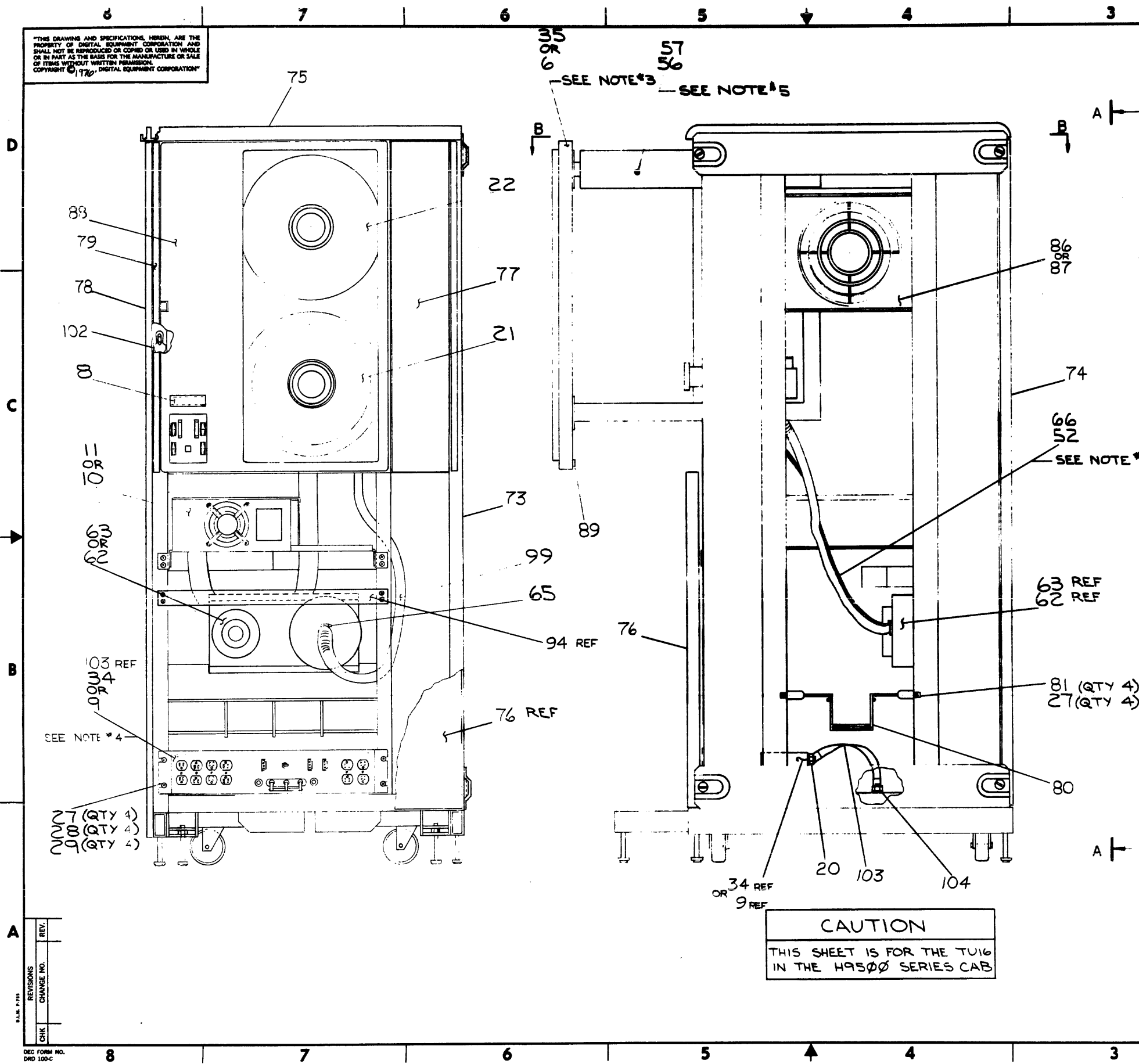
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- NOTES:
- FOR INFORMATION ON CONNECTING THE "BC&GR I/O CABLE"(ITEM#17) TO THE TAPE TRANSPORT ASSY.(ITEMS#6,#35) REFER TO D-MU-TU16-0-MU.
 - PHANTOM LINES REPRESENT "TAPE TRANSPORT ASSY (ITEMS#6,35) IN CLOSED POSITION TO SHOW LOCATION OF "SHIPPING 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#34, 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#57) 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) + BRK'T COUNTERWEIGHT (ITEM #101) TO FRAME ASSY.

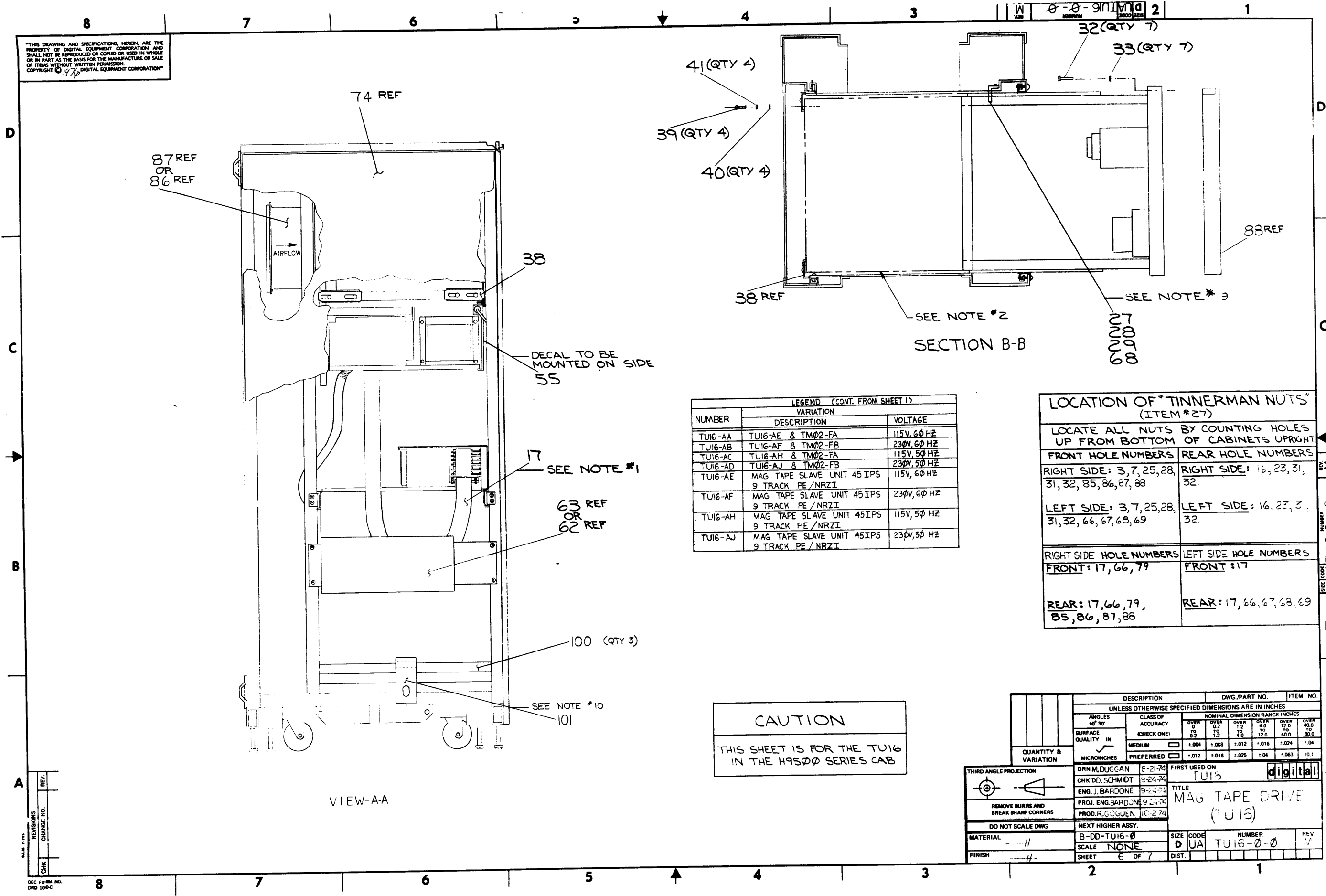
CAUTION
THIS SHEET IS FOR THE TU16 IN THE H9500 SERIES CAB

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
	ANGLES 30° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES
			OVER 0 TO 0.2
			OVER 0.2 TO 0.5
			OVER 0.5 TO 1.0
			OVER 1.0 TO 2.0
			OVER 2.0 TO 4.0
			OVER 4.0 TO 10.0
			OVER 10.0 TO 40.0
			OVER 40.0 TO 80.0
	SURFACE QUALITY IN MICRONS		
	MEDIUM	±.004	±.008
	PREFERRED	±.012	±.016
		±.025	±.04
		±.063	±.1
THIRD ANGLE PROJECTION	DRM, M. DL'GGAN 8-21-74	FIRST USED ON	TU16
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D, SCHMIDT 9-24-74	TITLE	MAG TAPE DRIVE (TU16)
DO NOT SCALE DWG	ENG. J. BA: DONE 9-24-74	SCALE	NONE
MATERIAL	PRQJ. ENG. BARDONE 9-24-74	SIZE CODE	B-DD-TU16-0
FINISH	PROD. R. GOGUEN 10-2-74	SCALE	NONE
	NEXT HIGHER ASSY.	NUMBER	TU16-0-0
		REV.	M
		DIST.	

REV.	CHANGE NO.	REVISIONS

DEC FORM NO. DRD 100-C

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LEGEND (CONT. FROM SHEET 1)

NUMBER	VARIATION	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 FRONT: 17, 66, 79	LEFT SIDE HOLE NUMBERS 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		
	ANGLES 10° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES
	SURFACE QUALITY IN	MEDIUM	OVER 0 TO 0.2
	MICROINCHES	PREFERRED	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
			OVER 80.0 TO 10.0
THIRD ANGLE PROJECTION	DRN. M. DUCCAN 8-21-74	FIRST USED ON	TU15
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D. D. SCHMIDT 9-24-74	TITLE	MAG TAPE DRIVE (TU15)
DO NOT SCALE DWG	ENG. J. BARDONE 9-24-74	SIZE CODE	D UA
MATERIAL	PROJ. ENG. BARDONE 9-24-74	NUMBER	TU16-0-0
FINISH	PROD. R. GOGUEN 10-2-74	REV	M
	NEXT HIGHER ASSY.	SHEET	6 OF 7
	SCALE NONE	DIST.	

REVISIONS

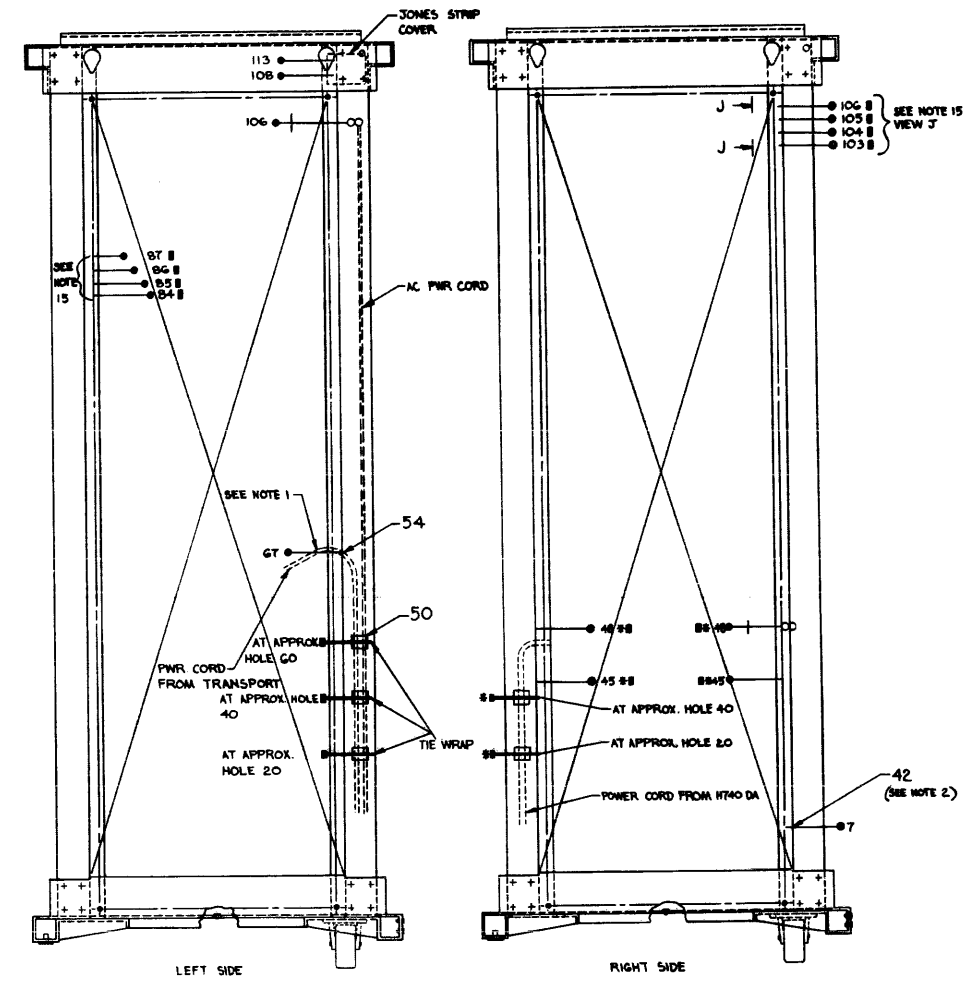
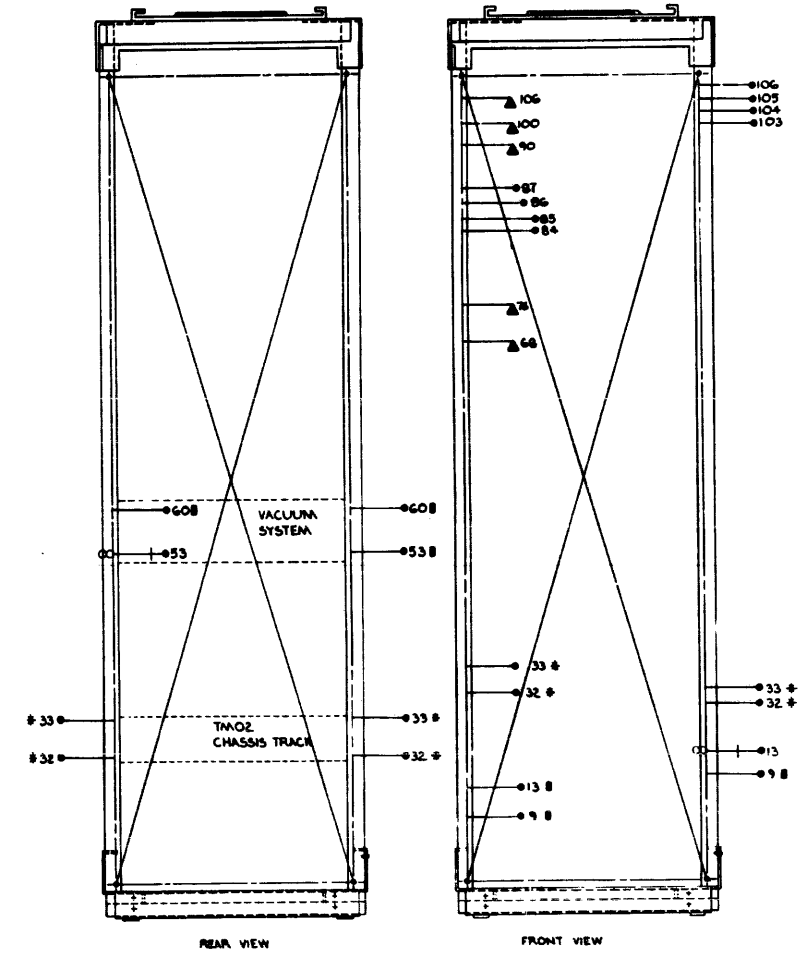
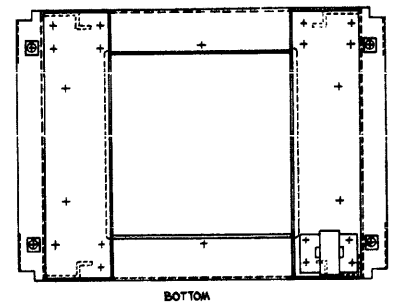
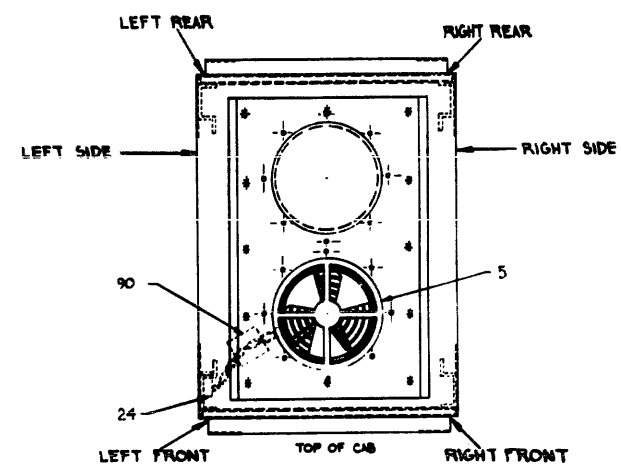
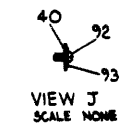
REV.	CHANGE NO.

DEC FORM NO. DRG 100-C

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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 061 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 90T86 FOR TIE WRAP.
- * THIS SIGN INDICATES USE ONLY WHEN INSTALLING A TMO2
- 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	M
SCALE	SHEET 7 OF 7	DIST.	