

digital

RK05J

Engineering Drawings

Digital Equipment Corporation

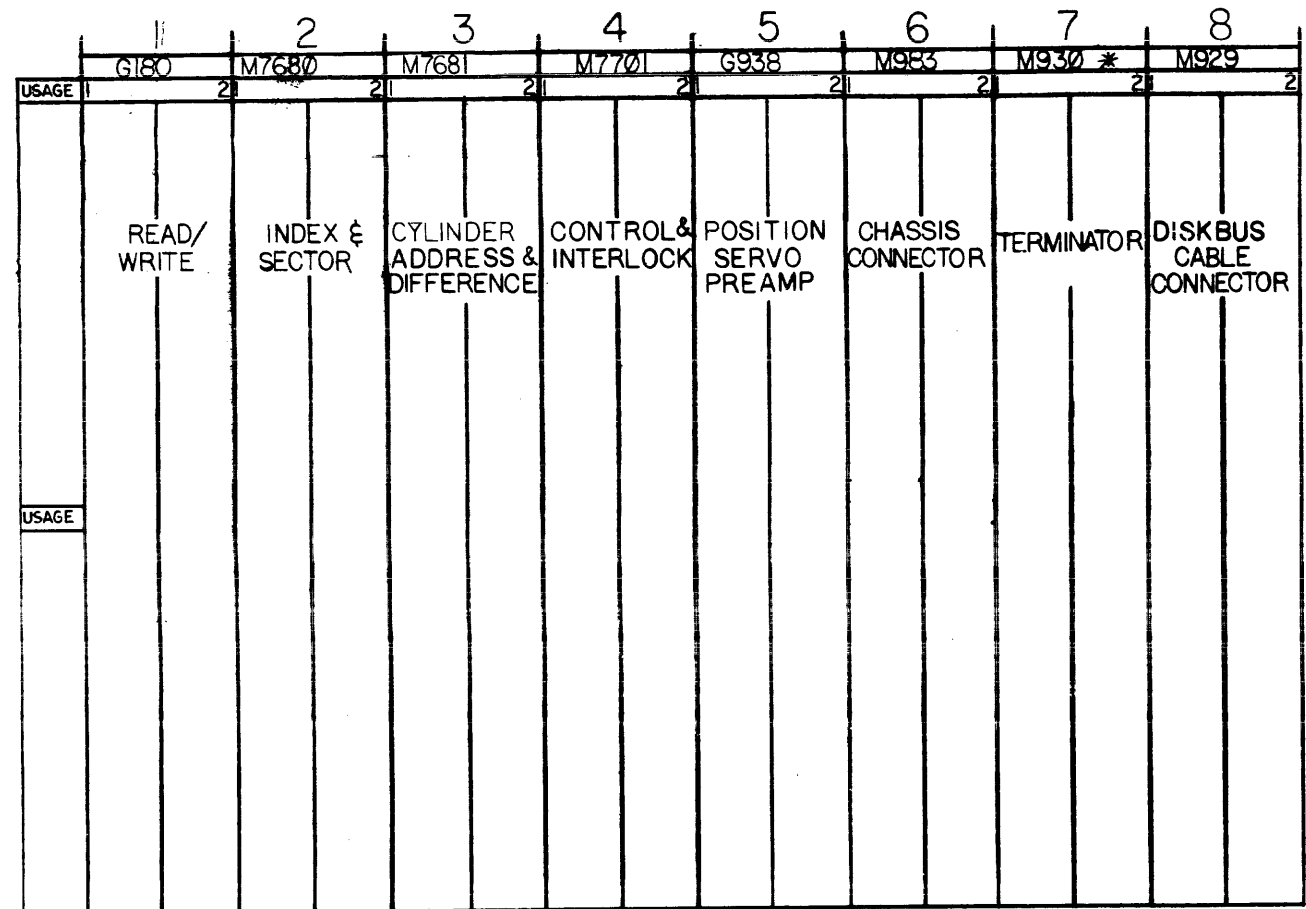
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NOTE:
TERMINATOR OR DISKBUS CABLE CONNECTOR MAY BE INTERCHANGED BETWEEN SLOTS 7 AND 8.



* IF MORE THAN ONE DRIVE IS USED, M930 IS REPLACED BY M929 (BC11A), M930 IS USED IN THE LAST DRIVE ON THE BUS.

REV.	CHANGE NO.	CHK	DATE
A	00002		1-14-72
B	00006		20 Jan 72
C	00023		2-9-72
D	00040		10/3/72
E	00007		12 Jan 77

REVISIONS

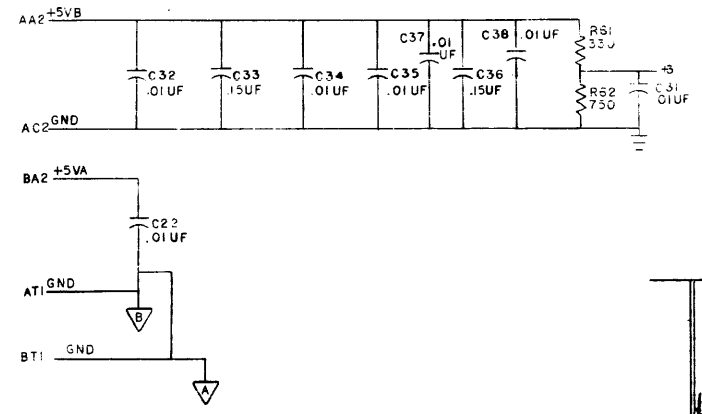
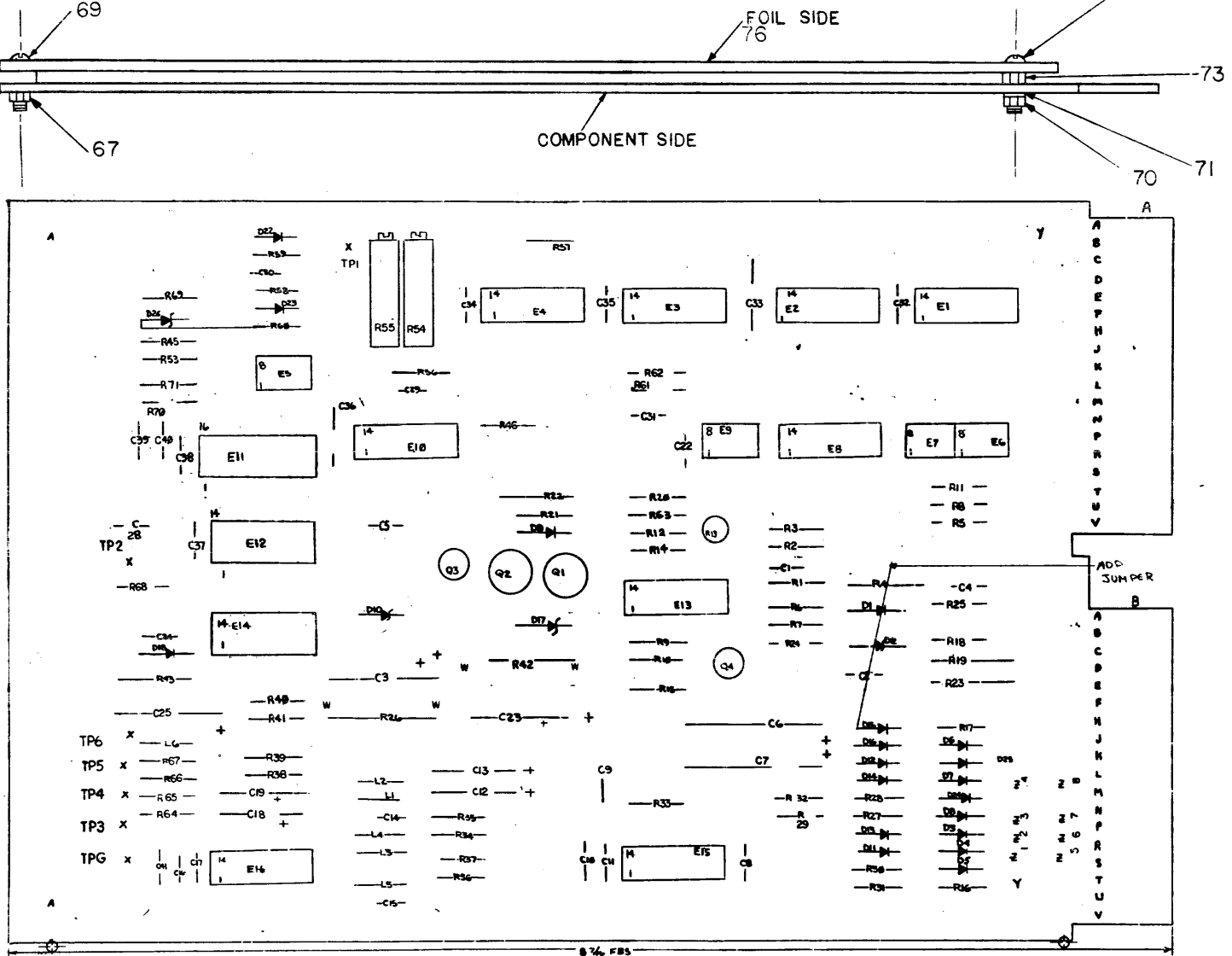
D. JENSEN
G. SCHNEIDER
E. ALLEN
S. RADOFF

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRM	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'B	DATE	TITLE	
ANGLES	ENG.	DATE	MODULE UTILIZATION	
XXX = .005	PROJ. ENG.	DATE	SIZE CODE	NUMBER
XX = .02	PROD.	DATE	CMU	RK05-0-2
X = .1			REV.	E
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.		SCALE	NONE
MATERIAL			SHEET	OF
FINISH			DIST.	

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NOTES:

NOTE:
DO NOT INSERT HANDLE HOLE EYELETS ON OUTSIDE HANDLE HOLES: (2 PLCS)



DI 8640	1	6	
DI 75-52	4	8	
IC TYPE		GND	+5V
IC PIN LOCATIONS			
<p>NO AND 27 ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE</p>			

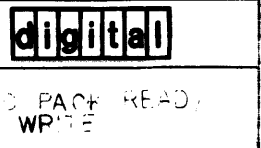
A/R		WIRE	#30AWG GREEN		
1	D26	DIODE	IN748A (3.9V ZENER)	9105740-55	80
1	R69	RES	180 1/4W 5%	1100122	79
2	R7, R10	RES	100 1/4W 5%	1300322	78
1		NOISE SHIELD		5009893	76
2		HANDLE, FLIP CHIP-GREEN		9008337-01	75
7	TPG, TP1 THRU TP6	SWAGE LUG		9007791	74
2		HEX NUT, NYLON, #2-56		9007263	73
2		EYELET #6S4-7		9006732	72
2		INTERNAL LOCK WASHER #2-56		9006631	71
2		HEX NUT #2-56		9006555	70
2		SCREW 4/40 X 3/8		9006011-4	69
2		SCREW PAN HD #2-56 X 5/16		9006002-1	68
2		KEP NUT 4/40		9006557	67

REV	BY	DATE	DESCRIPTION
1	J. SOTO	11-22-72	REVISED TO 11-22-72
2	S. RAJOFF	9-13-77	REVISED TO 9-13-77
3	S. RAJOFF	8-11-77	REVISED TO 8-11-77
4	J. RINALDIS	11-17-77	REVISED TO 11-17-77
5	J. RINALDIS	11-17-77	REVISED TO 11-17-77
6	J. RINALDIS	11-17-77	REVISED TO 11-17-77
7	J. RINALDIS	11-17-77	REVISED TO 11-17-77
8	J. RINALDIS	11-17-77	REVISED TO 11-17-77
9	J. RINALDIS	11-17-77	REVISED TO 11-17-77
10	J. RINALDIS	11-17-77	REVISED TO 11-17-77

3	E6, E29	I.C. DEC 75452	1910645
2	E15, 16	I.C. DEC 733	1910644
1	E14	I.C. DEC 1414	1910337
1	E5	I.C. DEC 741	1910298
1	E1	I.C. DEC 8881	1909705
2	E2, E8	I.C. DEC 8640	1911409
1	E10	I.C. DEC 9601	1909373
1	E13	I.C. DEC 7472	1905598
2	E4, E12	I.C. DEC 7400	1905575
1	E3	I.C. DEC 7474	1905547
1	L6	INDUCTOR 120UH	1610663
2	L1, L2	INDUCTOR 56UH	1610661
3	L3, L4, L5	INDUCTOR 100UH	1610662
1	Q3	TRANSISTOR DEC 65340	1503409-0
1	Q4	TRANSISTOR DEC 3009B	1503130
2	Q1, Q2	TRANSISTOR 2N2904	1501742
1	R13	POT 1K 1/2W 20% TANT	1300150-5
2	R54, 55	POT 10K 3/4W 10% 76PR	1300130-10
2	R16, R17	RES. 27K 1/4W 5%	1305347
2	R27, R28	RES. 8.2K 1/4W 5%	1303179
1	R60	RES. 220K 1/4W 5%	1302022
1	R4	RES. 270 1/2W 5%	1300265
2	R40, R41	RES. 560 1/4W 5%	1311190
6	R6, 9, 45, 53, 70, 71	RES. 5.6K 1/4W 5%	1301971
1	R11	RES. 1.1K 1/4W 5%	1301475
1	R59	RES. 3.2K 1/4W 5%	1300439
1	R62	RES. 750 1/4W 5%	1301401
2	R15, R21	RES. 1.2K 1/4W 5%	1301320
2	R30, R31	RES. 15K 1/4W 5%	1300496
6	R5, 8, 18, 38, 39, 57	RES. 10K 1/4W 5%	1300479
1	R59	RES. 4.7K 1/4W 5%	1300447
1	E11	I.C. DEC 74123	1910436
16	R1, R2, R3, R20, R34-37, R46, R56, R63-68	RES. 1K 1/4W 5%	1300385
2	R24, R12	RES. 470 1/4W 5%	1300316
1	R43	RES. 470 1/2W 5%	1300315
3	R22, R25, R61	RES. 330 1/4W 5%	1300295
2	R29, R32	RES. 220 1/4W 5%	1300271
2	R26, R42	RES. 180 1W 5%	1300262
1	R19	RES. 180 1/2W 5%	1300260
1	R14	RES. 150 1/4W 5%	1300250
1	R23	RES. 150 1/2W 5%	1300249
1	R33	RES. 100 1/4W 5%	1300229
8	I-8	SOLDER WIRE WIRE PINS	9009217
18	DI, O3-9, D11-16, D22-25	DIODE D672	1105275
1	D2	DIODE IN 753A (1V ZENER)	1101994
3	D10, D17, D18	DIODE IN 753A (1V ZENER)	1102421
13	C9, C33, C36	CAP. 150PF 50V 10% TANT	1010031
1	C15	CAP. 100PF 100V 5% D.M.	1002608
4	C12, C13, C18, C19	CAP. 01UF 50V AXIAL	1001610-00
14	C40, 41, 16, 17, 22, 24, 27, 31, 32, 34, 35, 37, 38	CAP. 01UF 100V 20% DISC	1011610-01
2	C6, C7	CAP. 10UF 35V 20% TANT	1000069
3	C3, C23, C25	CAP. 33UF 35V 20% TANT	1000067
1	C2	CAP. 680PF 100V 5% D.M.	1000026
2	C5, C30	CAP. 470PF 100V 5% D.M.	1000024
1	C29	CAP. 150PF 100V 5% D.M.	1000019
1	C41	CAP. 27PF 100V 5% D.M.	1001739
1	C14	CAP. 56PF 100V 5% D.M.	1000012
7	C1, C39, C40	CAP. 47PF 100V 5% D.M.	1000011
6	C8, C16	CAP. 16PF 100V 5% D.M.	1002609
5		ETCHED CIRCUIT BOARD	5009743
4		MODULE ECO HISTORY	B-MH-G180-0-6
3		ASSY. DRILLING HOLE LAYOUT	E-A-G180-0-5
2		X-Y COORDINATE HOLE LOCATION	K-10-G180-0-4

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

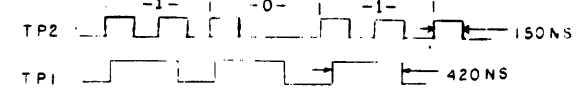
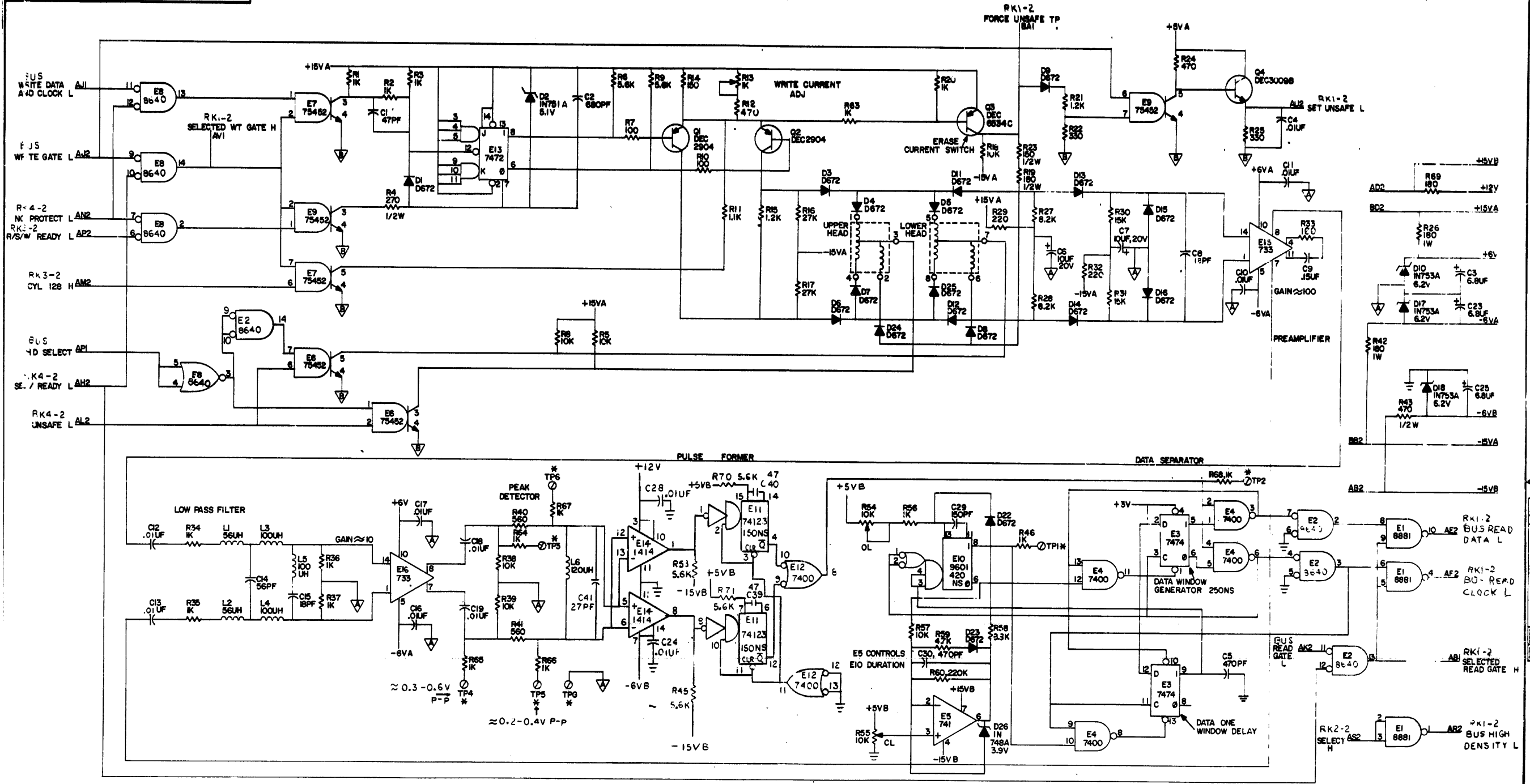
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8	J. RINALDIS	11-17-77	REVISED TO 11-17-77
9	J. RINALDIS	11-17-77	REVISED TO 11-17-77
10	J. RINALDIS	11-17-77	REVISED TO 11-17-77



DEC NO.	EIA NO.	DEC NO.	EIA NO.
2N2904	2N2118A	IN746A	SAME
DEC 3009B	2N3009	IN753A	SAME
DEC 65340	MPS6534	D672	IN3653

SEMICONDUCTOR CONVERSION CHART

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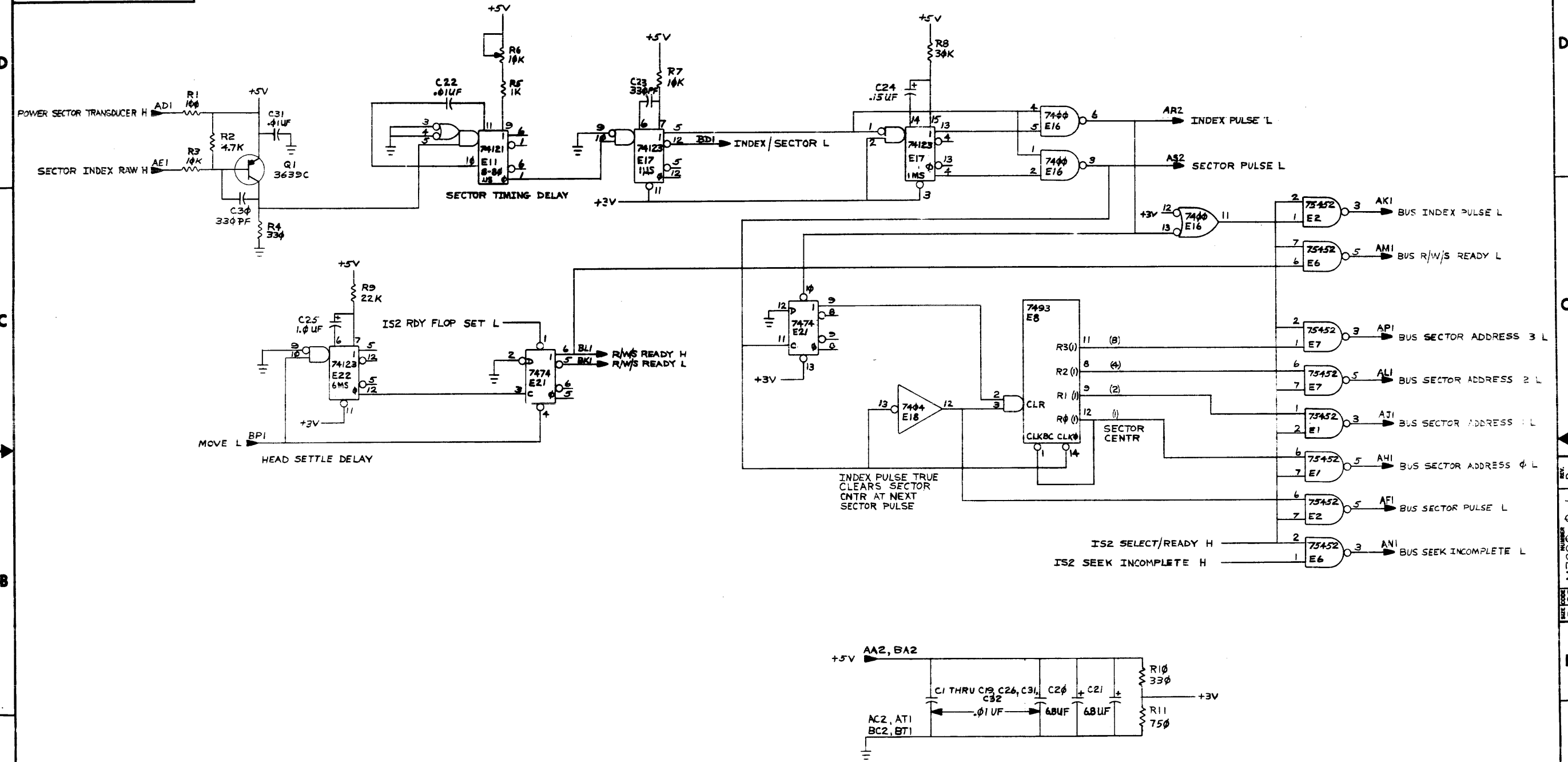
- UNLESS OTHERWISE INDICATED:
 * INDICATES SWAGE LUG
 ▽ - ANALOG GND "A" BTI
 ▽ - ANALOG GND "B" ATI
 ⊥ - DIGITAL GND AC2
 --- = COMPONENTS NOT MOUNTED ON BOARD
 ALL TIMES INDICATED ARE NOMINAL

REV	DATE	BY	CHKD
1	10/10/71	B. J. Hails	
2	11/10/71	W. J. Hails	
3	12/10/71	W. J. Hails	
4	12/10/71	W. J. Hails	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6834C	2N5634	D672	1N3643
DEC3009B	2N3009	IN751A	1N3643
2N2904	2N2904	IN753A	1N3643
	2N2904	IN746A	1N3643
		IN748A	1N3643

TITLE		DEC PACK READ/WRITE	
RK1-2		RK1-2	
EQUIPMENT CORPORATION	SIZE	CODE	NUMBER
D	CS	G186-0-1	
PRINTED CIRCUIT REV			

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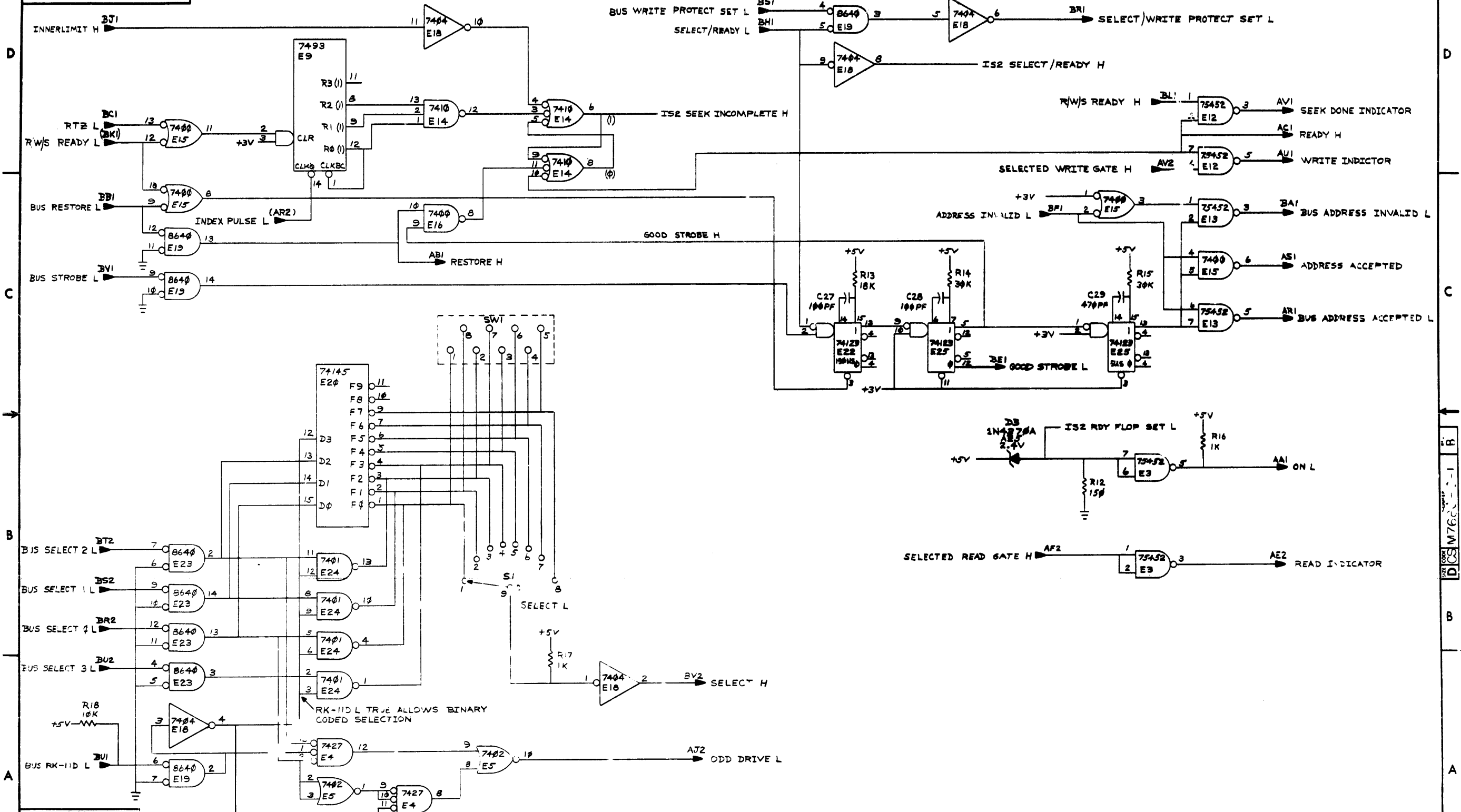


REV. 1	REV. 2	REV. 3	REV. 4
DATE 11-11-76	DATE 11-11-76	DATE 11-11-76	DATE 11-11-76
BY S. RADOFF	BY S. RADOFF	BY S. RADOFF	BY S. RADOFF
CHK'D BY	CHK'D BY	CHK'D BY	CHK'D BY
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
PROD. BY	PROD. BY	PROD. BY	PROD. BY

DRN. 11/11/76	22 JAN 76	FIRST USED ON	DIGITAL
CHK'D BY 11/11/76	5 FEB 76	TITLE	DEC PACK INDEX AND SECTOR (ISI)
ENG. 11/11/76			
PROJ. ENGR. 11/11/76			
PROD. BY 11/11/76			
NEXT HIGHER ASSY.			
D-LA-M7680-0-0	SIZE CODE	NUMBER	REV.
SCALE	D	CS M7680-0-1	B
SHEET 1 OF 2	DIST.		

D CS M7680-0-1 B

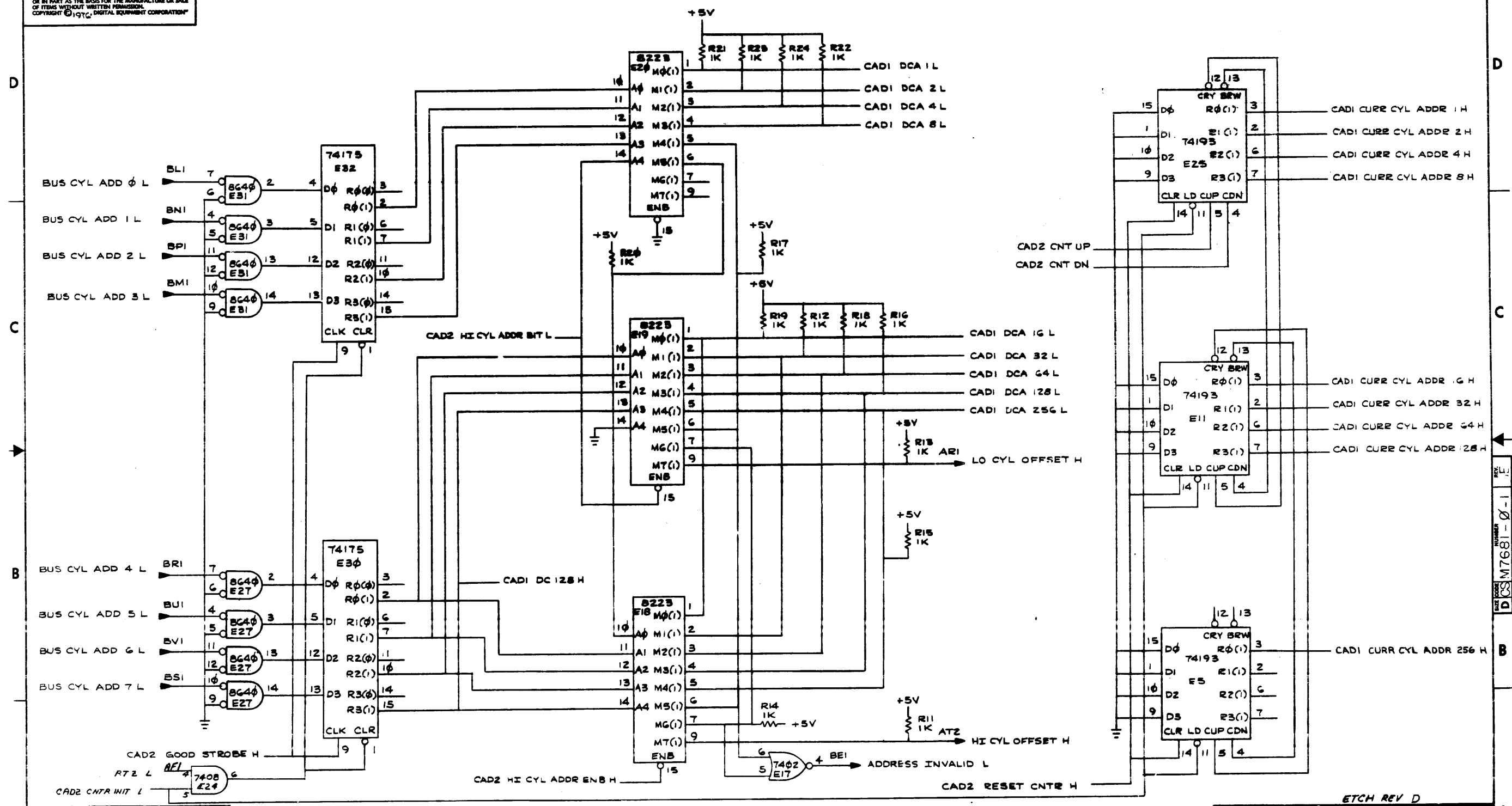
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CHK	CHANGE NO.	REV.

TITLE	DEC PACK INDEX (IS2) AND SECTOR	SIZE CODE	D CS	NUMBER	M7680-0-1	REV.	B
SCALE		SHEET	2 OF 2	DIST.			

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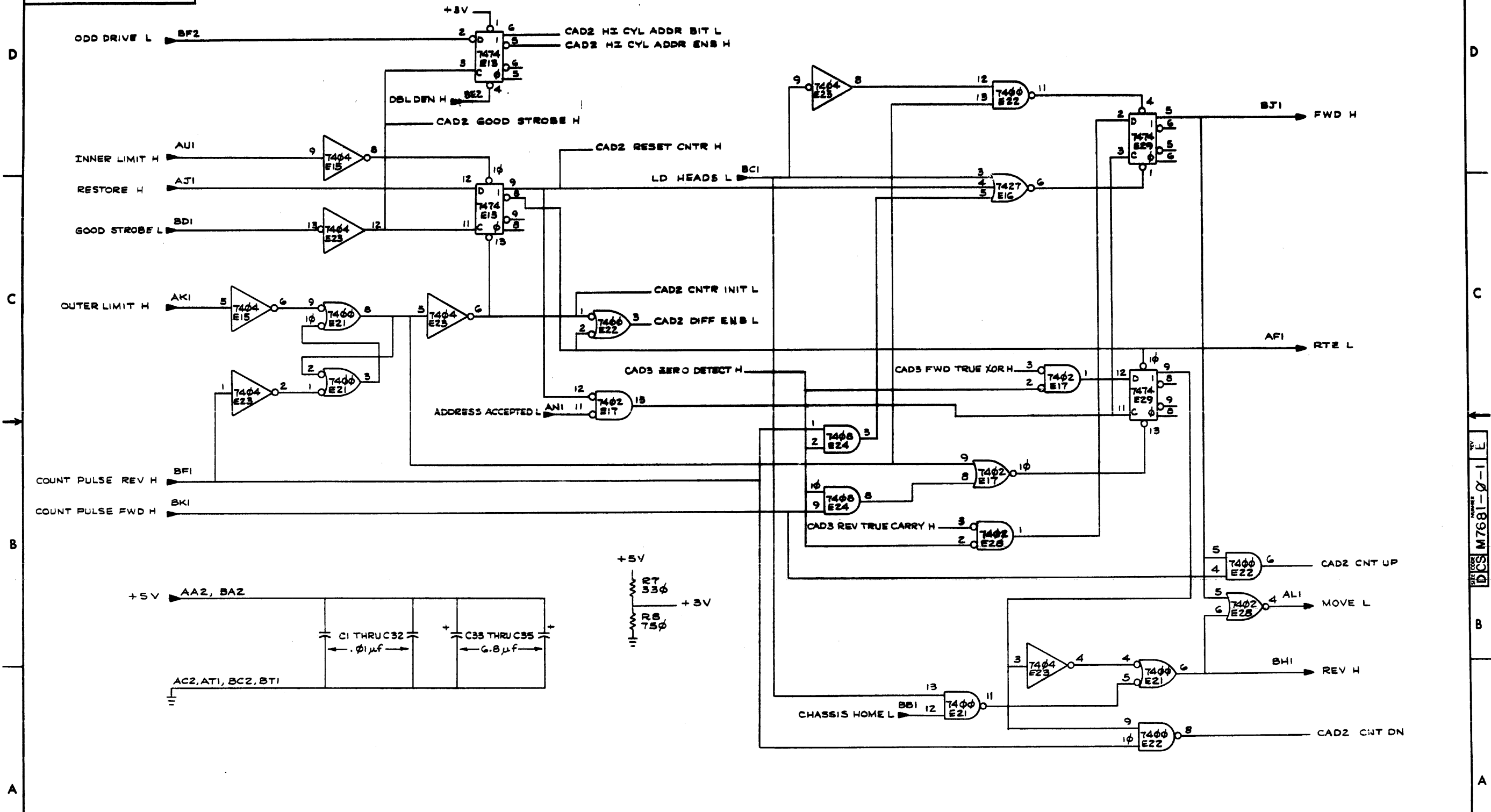
REV.	CHG.	NO.	DATE	BY	CHK.
A		1	12-19-75	J. RINALDIS	
B		2	1-14-76	J. RINALDIS	
C		3	6-15-76	J. RINALDIS	
D		4	6-17-76	J. RINALDIS	
E		5	4/14/77	S. RADOFF	
F		6	10/1/77	R. G. ...	
G		7	10/1/77	A. RICARD	

ETCH REV D

DRN	W. ...	1/21/76	FIRST USED ON	RK05F	digital
CHKD	J. ...	2 FEB 76	TITLE	CYLINDER ADDRESS AND DIFFERENCE (CADI)	
ENGR	J. ...	3 FEB 76	SIZE CODE	D	CS M7681-0-0
PROV. ENGR	J. ...	3 FEB 76	NUMBER	D	CS M7681-0-1
PROD. ENGR	J. ...	3 FEB 76	REV.	E	
NEXT HIGHER ASSY.	PK05P		SHEET	1	OF 3

REV. E
NUMBER
D CS M7681-0-1

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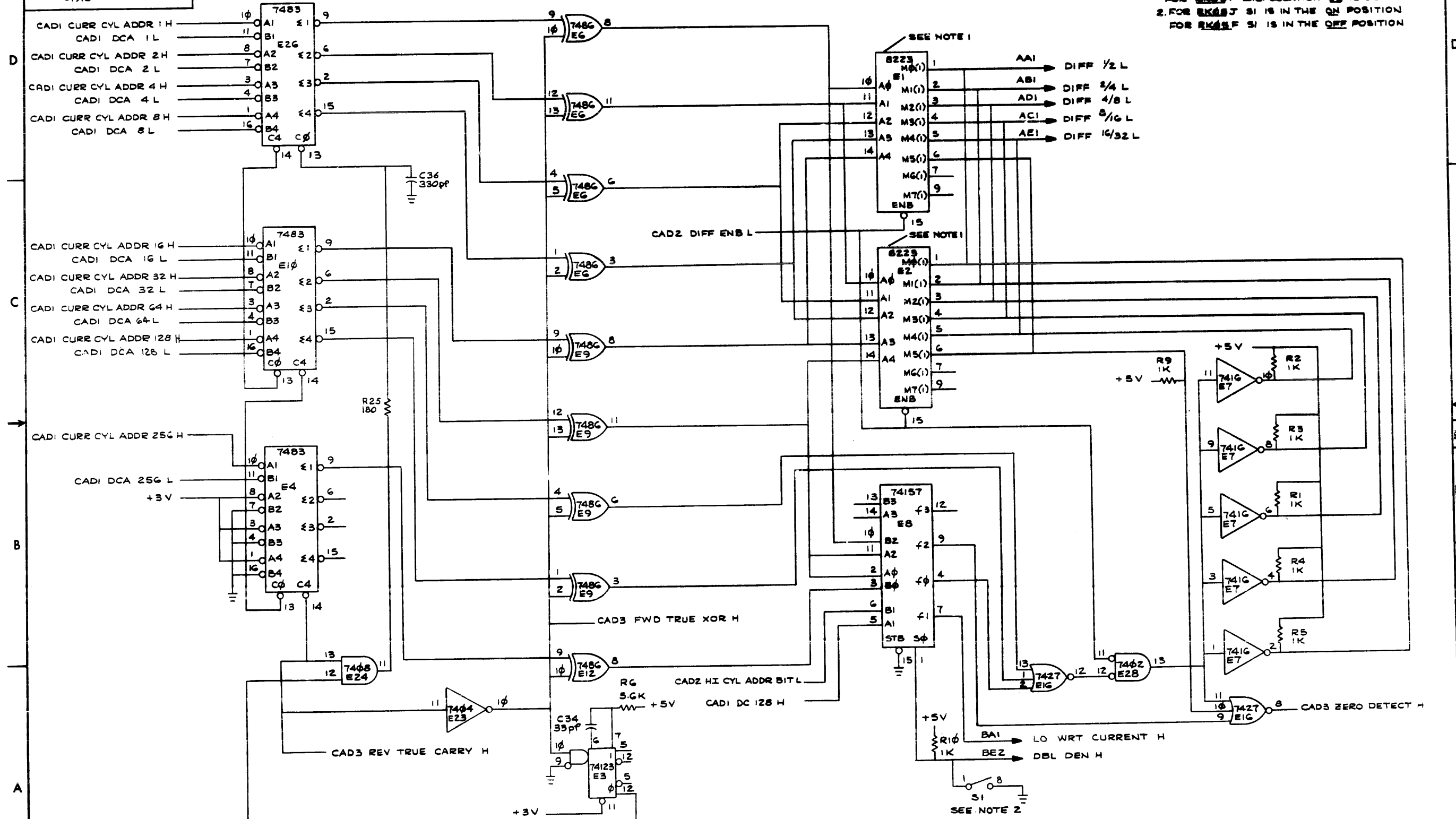
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CYLINDER ADDRESS AND DIFFERENCE (CAD2)	SIZE CODE	D CS M7681-0-1	NUMBER	2	REV.	E
SCALE	1:1	SHEET	2	OF	3	DIST.	

DCS M7681-0-1 E

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NOTE:
 1. FOR 8223 I.C. LOCATION E1 IS USED FOR 8223 F I.C. LOCATION E2 IS USED
 2. FOR 8223 SI IS IN THE ON POSITION FOR 8223 SI IS IN THE OFF POSITION



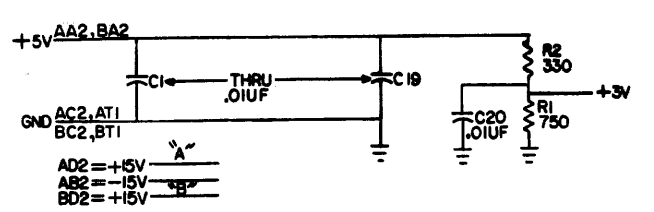
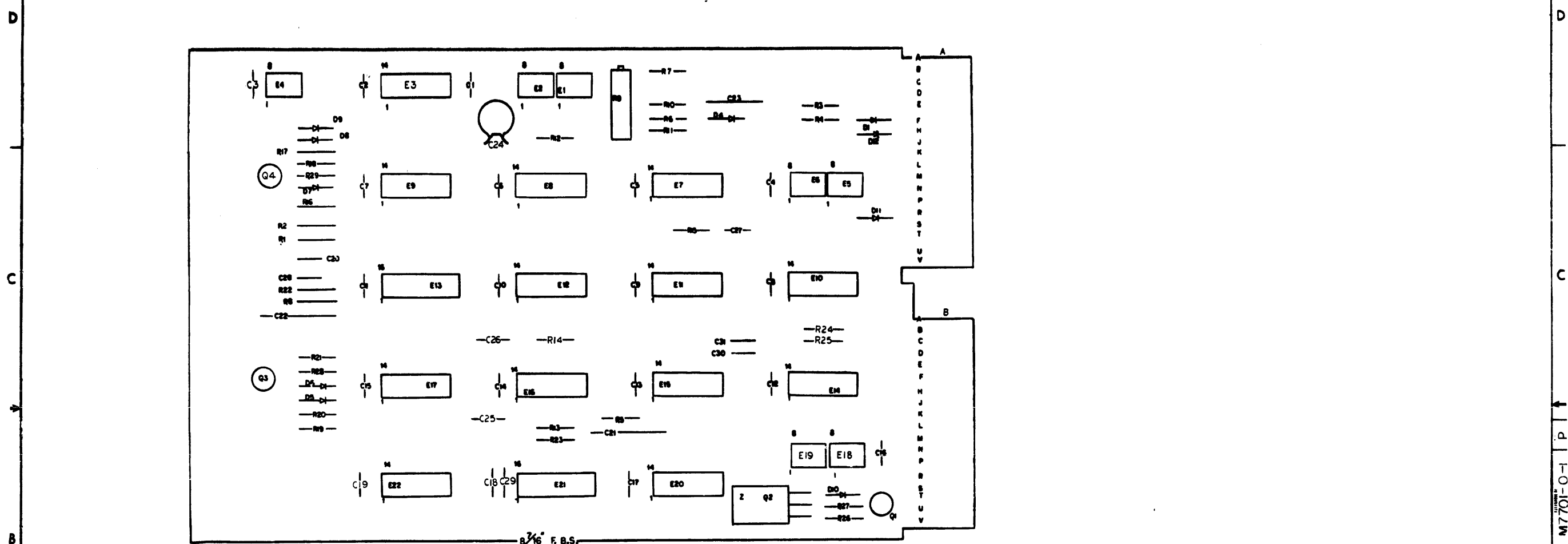
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CYLINDER ADDRESS AND DIFFERENCE (CAD3)	SIZE CODE	DCS M7681-0-1	NUMBER	1	REV.	E
SCALE	1:1	SHEET	3 OF 3	DIST.			

REV. 12/76

DCS M7681-0-1

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QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST			
	ETCH BOARD REV	K		
	IN748 3.9V	SAME	DEC6534D	MPS6534
	IN746A 3.3V	SAME	DEC44C3	
	IN4001	SAME	IN759 S	SAME
	D670	IN3653		
	D664	IN3606		
	DEC6531	MPS6531		
	DEC2219	2N2219		
DEC NO.	EIA NO.	DEC NO.	EIA NO.	

SEMICONDUCTOR CONVERSION CHART

SCALE	SHEET	1	OF	3
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EQUIPMENT CORPORATION
WATERTOWN MASSACHUSETTS

TITLE: DISK ENG. CONTROL + INTERLOCK

D I C S NUMBER M7701-0-1 REV. P

D I C S M7701-0-1 P

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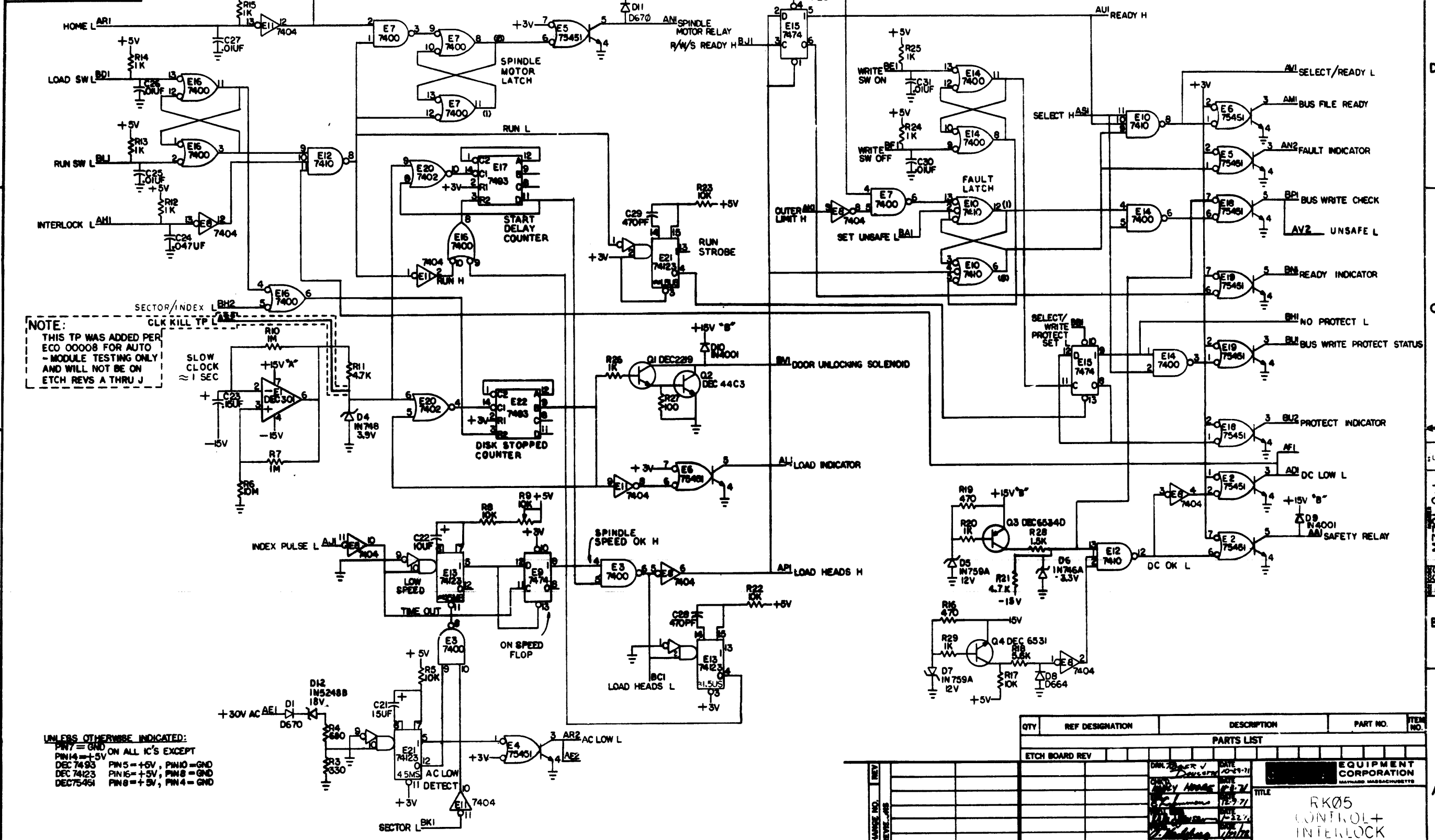
DCS M7701-0-1 2

QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
			X-Y COORDINATE HOLE LOCATION	K-CO-M7701-0-4	1
			ASSY/DRILLING HOLE LAYOUT	E-AH-M7701-0-5	2
			MODULE ECO HISTORY	B-MH-M7701-0-6	3
1			ETCHED CIRCUIT BOARD	5009714	4
25	C1-C20, C25-C27, C30, C31		CAP. .01 UF, 100V, 20% DISC	1001610	5
1	C21		CAP. .15 UF, 20V, 20% TANT	1004812	6
1	C22		CAP. .10 UF, 20V, 20% TANT	1004513	7
1	C23		CAP. .15 UF, 35V, 20% TANT	1002180	8
2	C28, C29		CAP. 470 PF, 100V, 5% DM	1000024	9
1	D8		DIODE, D664	1100114	10
2	D1, D11		DIODE, D670	1102162	11
2	D9, D10		DIODE, IN4001	1102942	12
1	D6		DIODE, IN746A, 3.3V	1104860	13
1	D4		DIODE, IN748, 3.9V	1100121	14
2	D5, D7		DIODE, IN759S, 12V	1110643	15
A/R			GRIPLETS	1210244-0	16
1	R27		RES. 100 OHMS, 1/4W, 5%	1300229	17
2	R2, R3		RES. 330 OHMS, 1/4W, 5%	1300295	18
2	R18, R19		RES. 470 OHMS, 1/4W, 5%	1300316	19
1	R1		RES. 750 OHMS, 1/4W, 5%	1301401	20
9	R12, R13, R15, R20, R24, R25, R26, R29, R14		RES., 1K, 1/4W, 5%	1300365	21
1	R28		RES. 1.5K, 1/4W, 5%	1300391	22
1	R4		RES. 680 OHMS, 1/4W, 5%	1301424	23
2	R11, R21		RES. 47K, 1/4W, 5%	1300447	24
1	R16		RES. 5.6K, 1/4W, 5%	1301874	25
5	R5, R8, R17, R22, R23		RES. 10K, 1/4W, 5%	1300479	26
					27
					28
2	R7, R10		RES. 1M, 1/4W, 5%	1309595	29
1	R6		RES. 10 M, 1/4W, 5%	1302686	30
1	R9		RES. 10 K, 1/4W, 10%, 76 PR	1309143-10	31
1	Q4		TRANSISTOR, DEC 8531	1509338	32
1	Q1		TRANSISTOR, DEC 2219	1501881	33
1	Q3		TRANSISTOR, DEC 8534D	1503409-00	34
1	Q2		TRANSISTOR, DEC 44C3	151671	35
4	E3, E7, E16, E14		I.C., DEC 7400	1905575	36
1	E20		I.C., DEC 7402	1909004	37
2	E11, E8		I.C., DEC 7404	1909686	38
2	E12, E10		I.C., DEC 7410	1905576	39
2	E9, E15		I.C., DEC 7474	1905547	40
2	E22, E17		I.C., DEC 7493	1909054	41
2	E21, E13		I.C., DEC 74123	1910436	42
6	E2, E4, E6, E5, E18, E19		I.C., DEC 75451	1910206	43
1	E1		I.C., DEC 301	1910262	44
4			EYELET #6SL-7	9006732	45
2			HANDLE FLIP CHIP - MAGENTA	9008337-08	46
1			SCREW #4-40 X 5/16	9006010-1	47
1			NUT, KEP #4-40	9006557	48
1	D12		DIODE, 1N5248B, 18V, 5%	1110766	49
1	C24		CAP. .047 UF, 16V, DISC	1009678	50

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DISK ENG. CONTROL + INTERLOCK
 SCALE / / SHEET 2 OF 3
 SIZE CODE NUMBER DCS M7701-0-1
 DIST. 1

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NOTE:
THIS TP WAS ADDED PER ECO 00008 FOR AUTO-MODULE TESTING ONLY AND WILL NOT BE ON ETCH REVS A THRU J

UNLESS OTHERWISE INDICATED:
PIN7 = GND ON ALL IC'S EXCEPT
DEC 7493 PIN5 = +5V, PIN10 = GND
DEC 7423 PIN15 = +5V, PIN8 = GND
DEC 7545 PIN8 = +5V, PIN4 = GND

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
			EQUIPMENT CORPORATION MAYFIELD MASSACHUSETTS	
			TITLE RK05 CONTROL + INTERLOCK	
			NUMBER M7701-0-1	
			SHEET 3 OF 3	
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE

D ICS M7701-0-1

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NOTES:

Table with columns for QTY, REF, DESIGNATION, PART NO., and ITEM NO. listing components like TRANSISTOR 2N5245, TRANSISTOR DEC 6534D, I.C. DEC 7404, etc.

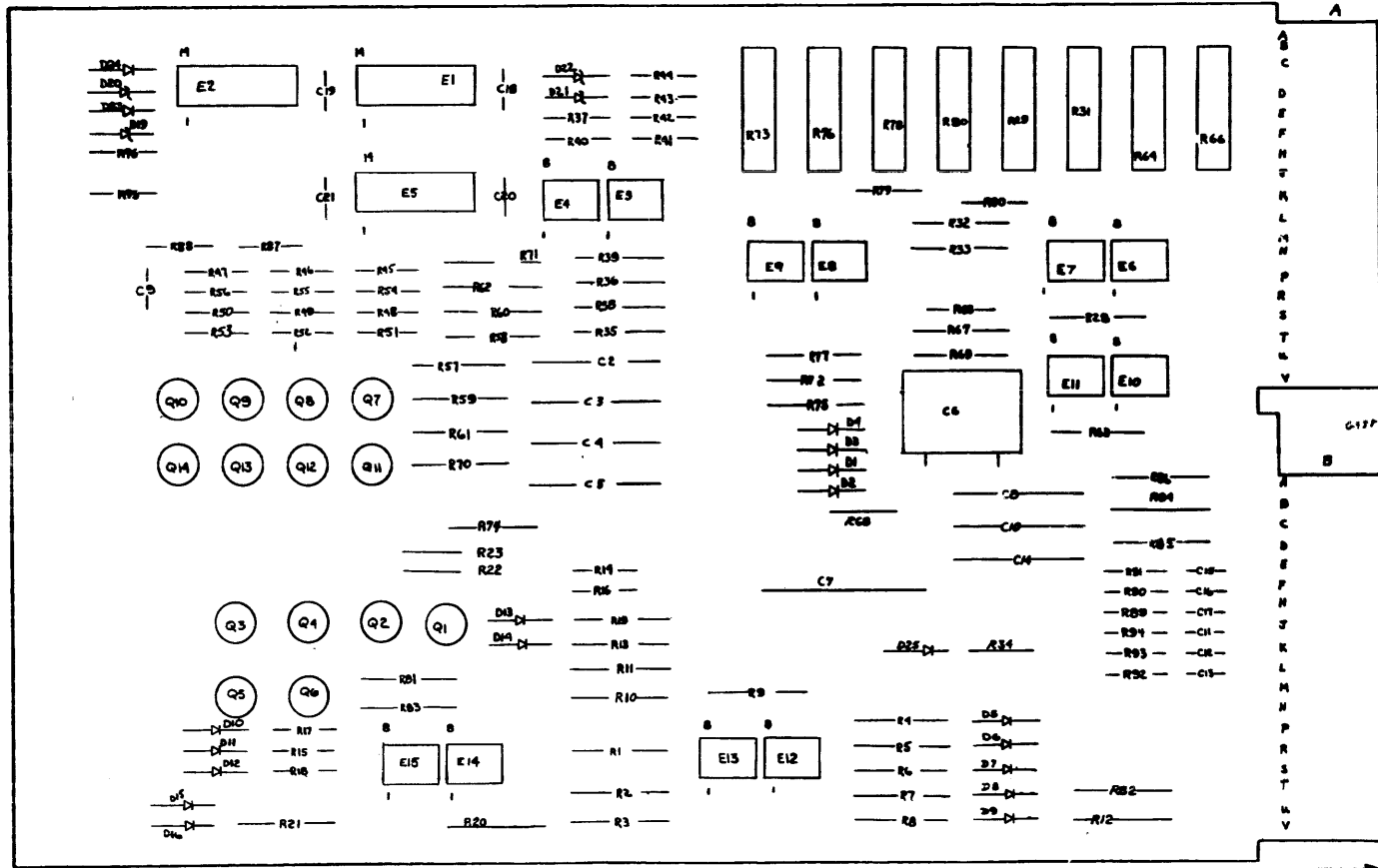
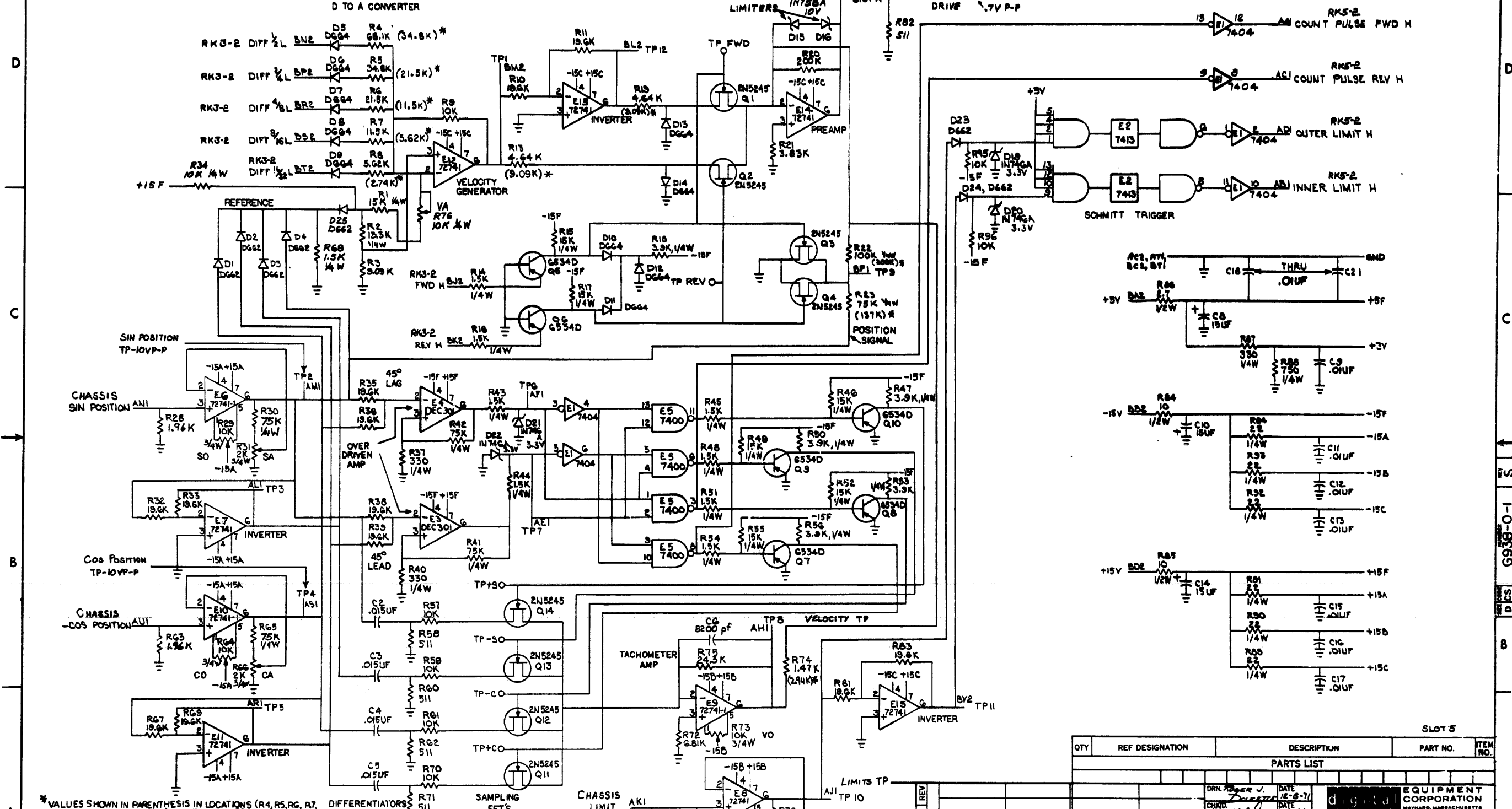


Table with columns for QTY, REF, DESIGNATION, DESCRIPTION, PART NO., and ITEM NO. listing components like RES 200K, RES 137K, RES 9.09K, etc.

Table with columns for IC TYPE, GND, and +5V. Includes part numbers like 72741 and LM301.

Administrative section containing revision history, drawing dates, titles (DEC PACK HEAD POSITION SERVO PREAMP RK5-1), and a SEMICONDUCTOR CONVERSION CHART.

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* VALUES SHOWN IN PARENTHESIS IN LOCATIONS (R4, R5, R6, R7, R8, R13, R19, R22, R23, R74) ARE THE VALUES TO BE USED FOR THE G938-YA VARIATION IN THE RK05 DOUBLE DENSITY (RK05F).
 NOTE: UNLESS OTHERWISE INDICATED: RESISTORS ARE 1/4W.

ORDER	FWD	SEEK
1	Q13	
2	Q11	
3	Q14	
4	Q12	

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				

DRN. POWER J. DATE 12-8-71	<p>EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p>
CHKD. Nussel DATE 2-4-71	
ENG. DATE 1-20-71	
PROL. ENG. DATE 1-20-71	
DATE 1-20-71	
DATE 1-20-71	

TITLE: DEC PACK HEAD POSITION SERVO PREAMP RK5-2

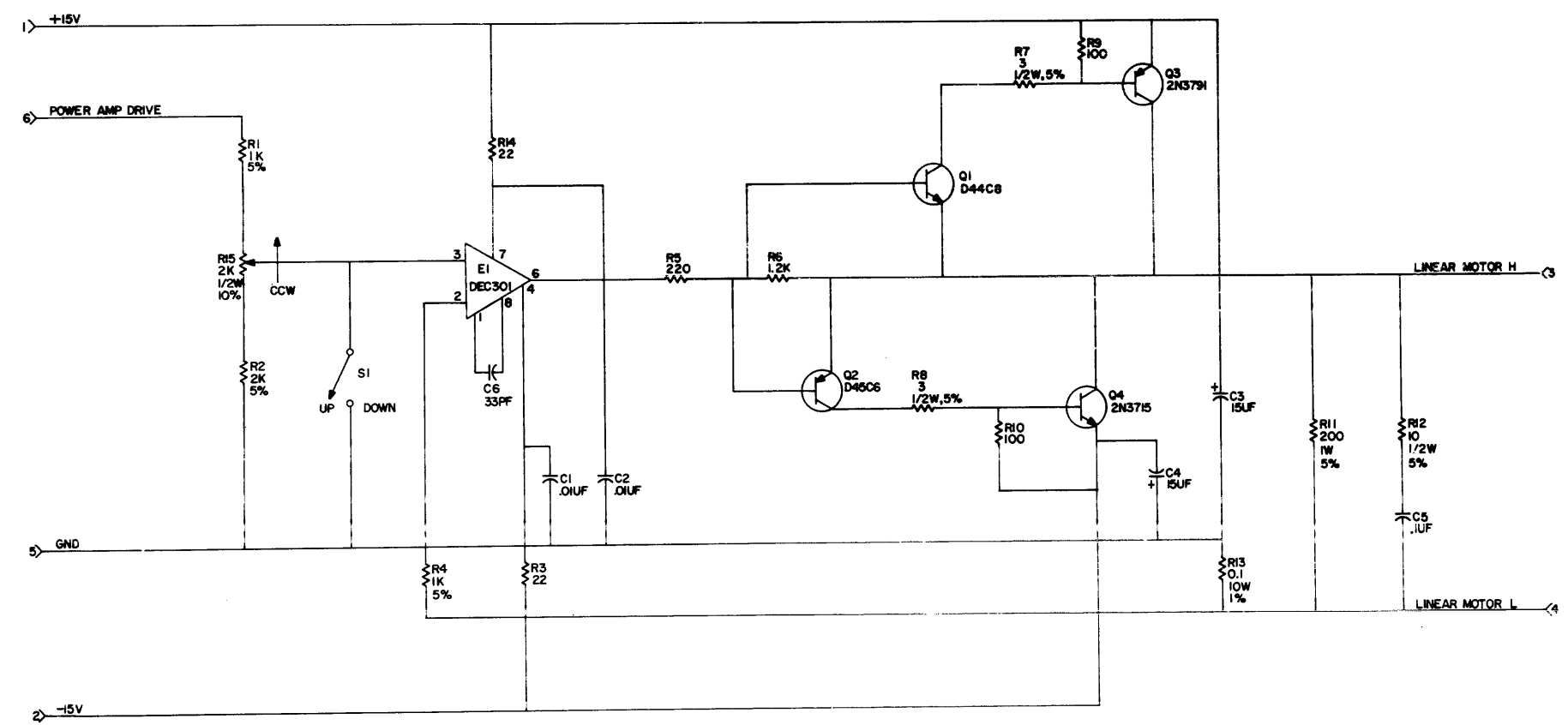
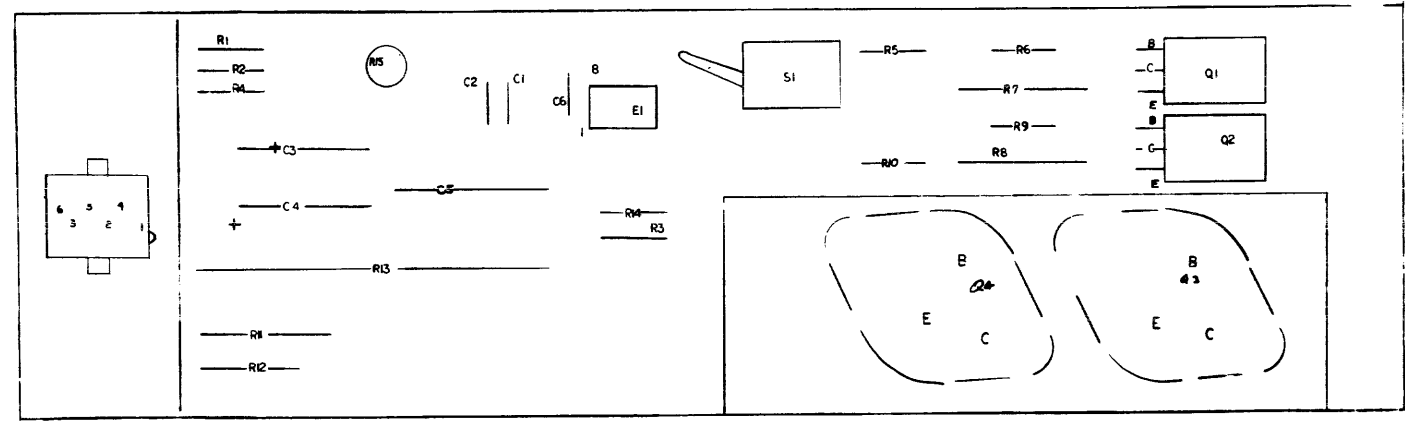
SIZE CODE: DCS NUMBER: G938-0-1 REV. S

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

SEMICONDUCTOR CONVERSION CHART

SHEET 2 OF 2

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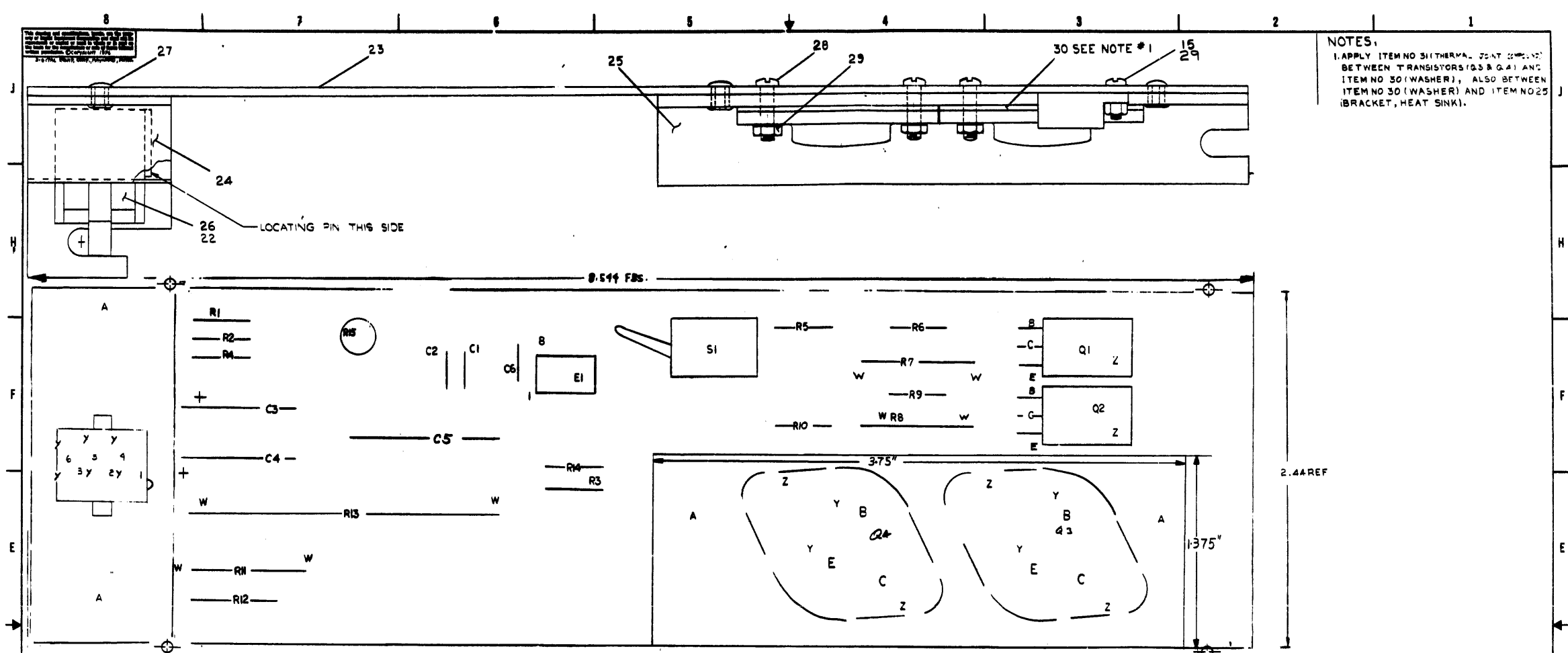
UNLESS OTHERWISE INDICATED:
RES. ARE 1/4W, 10%
R13 IS A CURRENT SAMPLING RES.

REV	DATE	BY	CHKD
1	11/10/71	W. J. JENSEN	D. JENSEN
2	12-7-71	D. JENSEN	D. JENSEN
3	10-10-72	D. JENSEN	D. JENSEN
4	10-10-72	D. JENSEN	D. JENSEN
5	10-10-72	D. JENSEN	D. JENSEN
6	10-10-72	D. JENSEN	D. JENSEN
7	10-10-72	D. JENSEN	D. JENSEN
8	10-10-72	D. JENSEN	D. JENSEN
9	10-10-72	D. JENSEN	D. JENSEN
10	10-10-72	D. JENSEN	D. JENSEN
11	10-10-72	D. JENSEN	D. JENSEN
12	10-10-72	D. JENSEN	D. JENSEN
13	10-10-72	D. JENSEN	D. JENSEN
14	10-10-72	D. JENSEN	D. JENSEN
15	10-10-72	D. JENSEN	D. JENSEN
16	10-10-72	D. JENSEN	D. JENSEN
17	10-10-72	D. JENSEN	D. JENSEN
18	10-10-72	D. JENSEN	D. JENSEN
19	10-10-72	D. JENSEN	D. JENSEN
20	10-10-72	D. JENSEN	D. JENSEN

TRANSISTOR & DIODE CONVERSION CHART			
MANUFACTURER	TYPE	DIGITAL	REMARKS
2N3715	2N3715		
D45CB	D45CB		
D44CB	D44CB		

TITLE		DECPAK HEAD POS. SERVO PWR. AMP.	
SIZE	CODE	NUMBER	REV
D	CS	H604-0-1	-
EQUIPMENT CORPORATION		PRINTED CIRCUIT REV	
MAYNARD, MASSACHUSETTS		K	

REV. K
NUMBER H604-0-1
DATE CODE D CS



NOTES:
 1. APPLY ITEM NO 31 (THERMAL JOINT) BETWEEN TRANSISTORS (Q3 & Q4) AND ITEM NO 30 (WASHER), ALSO BETWEEN ITEM NO 30 (WASHER) AND ITEM NO 23 (BRACKET, HEAT SINK).

IC TYPE	QND	QSW	TIME	ANS	FROM	TO
NO	PT	PT				

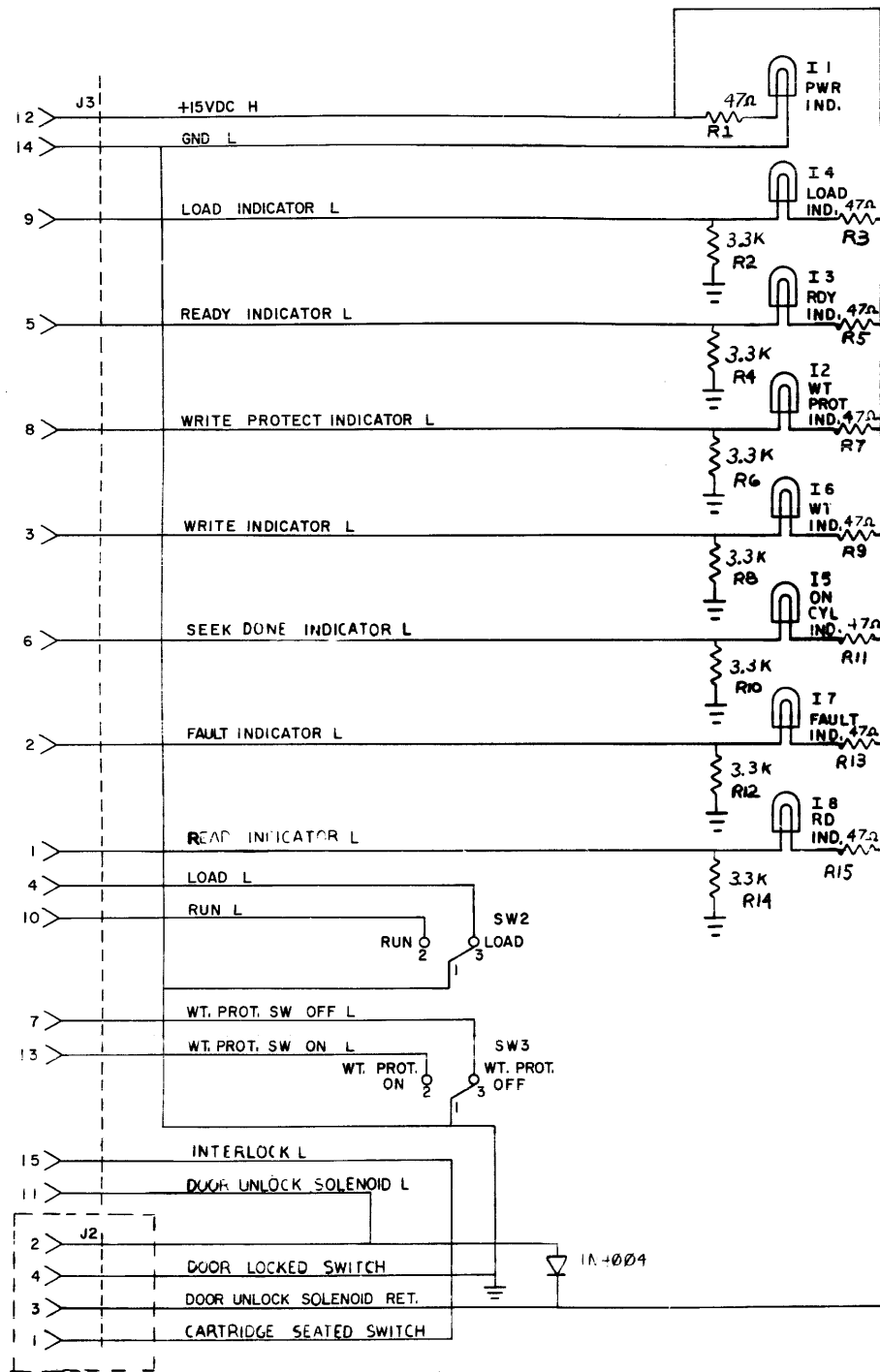
IC PIN LOCATIONS
 JUMPER LIST

REF	ASSEMBLY HOLE DRILLING LAYOUT	DRAWING NO.	REV.
1	COMPONENT THERMAL JOINT	911448B	31
2	INSULATOR WASHER	806872	30
3	WASHER	800357	29
4	SCR BRIDGE WITH LOTTED #4-608-64	800624-4	28
5	EYELET 1/16" DIA 3/16" L	801472	27
6	HOUSING	120837	26
7	EPIN MATE-N-LOCK	120837	25
8	BRACKET, HEAT SINK	120837	24
9	BRACKET, HEAT SINK	120837	23
10	ETCHED CIRCUIT BOARD	800841	22
11	ETCHED CIRCUIT BOARD	800841	21
12	PINS FOR MATE-N-LOCK	180949-01	20
13	IC LM501	180288	19
14	TRANS 2N3715	153068	18
15	TRANS 2N3715	150901	17
16	TRANS 2N3715	150414	16
17	TRANS DEC 6408 04 TRM	151048	15
18	RAS 1W .25W .5%	150635	14
19	SCREW 4-40 X 1/2 IN. S.S. #2	800609-4	13
20	POT 2K 1/2 W 10% 1/2 PR	303160-07	12
21	RES 1.2K .25W .5%	1301320	11
22	RES 220 .25W .5%	1500271	10
23	RES 200 1W .5%	1502388	9
24	RES 100 .25W .5%	1500229	8
25	RES 1K .25W .5%	1501969	7
26	RES 10 .25W .5%	1500168	6
27	RES 3.3 2 W .5%	1301648	5
28	RES 1.1 1W .1%	1508108	4
29	SWITCH TOGGLE T-PUSH	1810209	3
30	CAP 15UF .25V .10%	1004812	2
31	CAP 33PF .100V .5%	1000009	1
32	CAP 1UF .100V .10%	1003342	0
33	CAP 1UF .100V .10%	1003342	0
34	CAP 1UF .100V .10%	1003342	0
35	CAP 1UF .100V .10%	1003342	0
36	CAP 1UF .100V .10%	1003342	0
37	CAP 1UF .100V .10%	1003342	0
38	CAP 1UF .100V .10%	1003342	0
39	CAP 1UF .100V .10%	1003342	0
40	CAP 1UF .100V .10%	1003342	0
41	CAP 1UF .100V .10%	1003342	0
42	CAP 1UF .100V .10%	1003342	0
43	CAP 1UF .100V .10%	1003342	0
44	CAP 1UF .100V .10%	1003342	0
45	CAP 1UF .100V .10%	1003342	0
46	CAP 1UF .100V .10%	1003342	0
47	CAP 1UF .100V .10%	1003342	0
48	CAP 1UF .100V .10%	1003342	0
49	CAP 1UF .100V .10%	1003342	0
50	CAP 1UF .100V .10%	1003342	0

REF	DESCRIPTION	QTY	REV
1	RES 2K 1/4W .5%	1302388	36
2	RES 2K 1/4W .5%	1302388	35
3	RES 2K 1/4W .5%	1302388	34
4	RES 2K 1/4W .5%	1302388	33
5	RES 2K 1/4W .5%	1302388	32
6	RES 2K 1/4W .5%	1302388	31
7	RES 2K 1/4W .5%	1302388	30
8	RES 2K 1/4W .5%	1302388	29
9	RES 2K 1/4W .5%	1302388	28
10	RES 2K 1/4W .5%	1302388	27
11	RES 2K 1/4W .5%	1302388	26
12	RES 2K 1/4W .5%	1302388	25
13	RES 2K 1/4W .5%	1302388	24
14	RES 2K 1/4W .5%	1302388	23
15	RES 2K 1/4W .5%	1302388	22
16	RES 2K 1/4W .5%	1302388	21
17	RES 2K 1/4W .5%	1302388	20
18	RES 2K 1/4W .5%	1302388	19
19	RES 2K 1/4W .5%	1302388	18
20	RES 2K 1/4W .5%	1302388	17
21	RES 2K 1/4W .5%	1302388	16
22	RES 2K 1/4W .5%	1302388	15
23	RES 2K 1/4W .5%	1302388	14
24	RES 2K 1/4W .5%	1302388	13
25	RES 2K 1/4W .5%	1302388	12
26	RES 2K 1/4W .5%	1302388	11
27	RES 2K 1/4W .5%	1302388	10
28	RES 2K 1/4W .5%	1302388	9
29	RES 2K 1/4W .5%	1302388	8
30	RES 2K 1/4W .5%	1302388	7
31	RES 2K 1/4W .5%	1302388	6
32	RES 2K 1/4W .5%	1302388	5
33	RES 2K 1/4W .5%	1302388	4
34	RES 2K 1/4W .5%	1302388	3
35	RES 2K 1/4W .5%	1302388	2
36	RES 2K 1/4W .5%	1302388	1

EQUIPMENT CORPORATION		EQUIPMENT CORPORATION	
HEAD POSITION SERVO POWER AMP			
DATE	BY	DATE	BY
12/1/66	J. J. [Signature]	12/1/66	J. J. [Signature]
12/1/66	J. J. [Signature]	12/1/66	J. J. [Signature]
12/1/66	J. J. [Signature]	12/1/66	J. J. [Signature]
12/1/66	J. J. [Signature]	12/1/66	J. J. [Signature]

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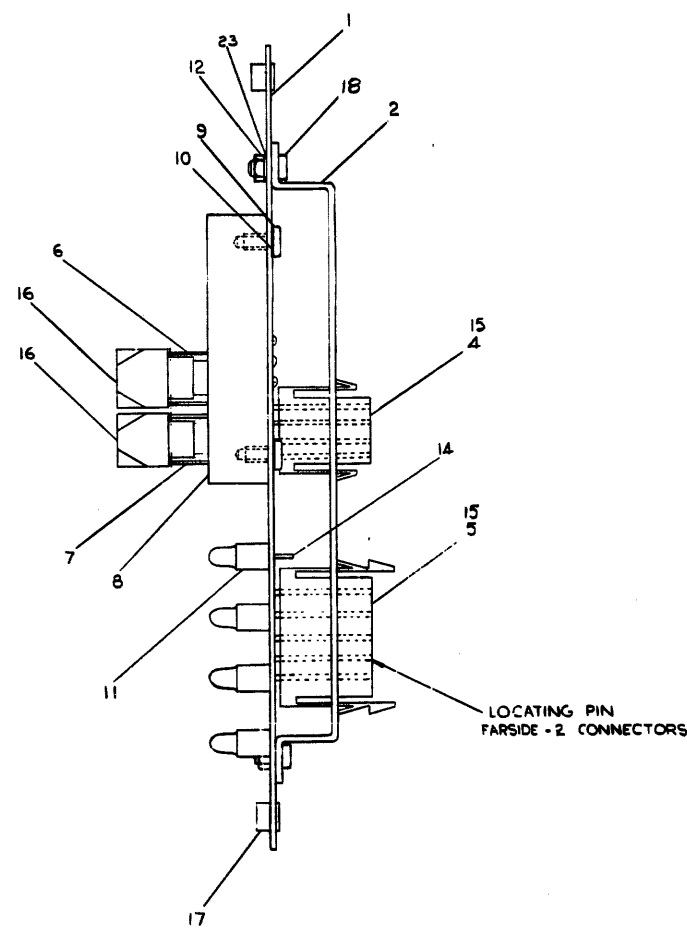
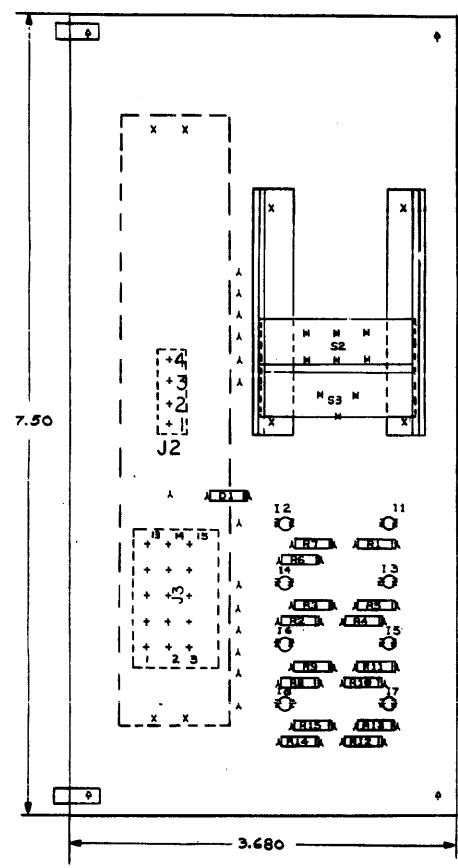
REV	CHG NO.	REV	BY	DATE
1	00001	B	D. JENSEN	
2	00002			
3	00003			
4	00004			
5	00005			
6	00006			
7	00007			
8	00008			
9	00009			
10	00010			
11	00011			
12	00012			
13	00013			
14	00014			
15	00015			
16	00016			
17	00017			
18	00018			
19	00019			
20	00020			

DRN	S. COOPER	DATE	11-20-71
CHK'D		DATE	
ENG.	S. Jensen	DATE	11-20-71
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital		EQUIPMENT CORPORATION		MAYNARD, MASSACHUSETTS	
SIZE	COD.	NUMBER	REV		
C	CS	5409698-0-1	F		
PRINTED CIRCUIT REV.			E-12		

REV. NUMBER 44 096 98-0-1



IC TYPE	QTY	BY	DATE	FROM	TO

REF	DESIGNATION	DESCRIPTION	QTY
4		WASHER	9006633 23
1	D1	1N4004 DIODE	1105796-00 22
7	R2,4,6,8,10,12,14	3.3K 1/4 W, 5% RESISTOR	1300438-00 21
8	R1,3,5,7,9,11,13,15	47.0 1/4 W, 5% RESISTOR	1300202-00 20
REF		ASSY/DRILLING HOLE LAYOUT	DWH-5409698-01 19
4		SCR, PHL PAN HD P4-40-5/16 LG	9006010-1 18
2		NUT CLIP 0.6-32	9008482 17
2		SWITCH BUTTON	1809917-01 16
19		PIN SOCKET MATE-N-LOCK	1809486-01 15
16		TERMINAL SOLDERLESS	9007818 14
4		NUT REPS P4-40	9006627 13
8	L1,L2,L3,L4,L5,L6,L7,L8	LAMP	1809869 11
4		LOCK WASHER INTERNAL 6-32	9006633 10
4		SCREW PHL PAN HEAD 6-32 X 5/16 L	9006021-1 9
8		SWITCH MOUNTING BAR	B-HD-5409698-0-0 8
1	S3	SWITCH, ROCKER	1205375 7
1	S2	SWITCH, ROCKER	1205941 6
1	J3	HOUSING, SOCKET MATE-N-LOCK 4PIN	1209350-15 5
1	J2	HOUSING, SOCKET MATE-N-LOCK 4PIN	1209350-04 4
			3
1		CONNECTOR BRACKET	C-HD-5509698-0-0 2
1		ETCHED CIRCUIT BOARD	9009697 1
REF		MODULE ECO HISTORY	B-MH-5409698-0-0
REF		X-Y COORDINATE HOLE LOCATION	X-CO-5409698-0-4
REF		CIRCUIT SCHEMATIC	C-CS-5409698-0-1
QTY	REF DESIGNATION	DESCRIPTION	REF NO.

F. NOT USED OR OPT/MOD
RK7-5

ETCH BOARD REV E

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

SEMICONDUCTOR CONVERSION CHART

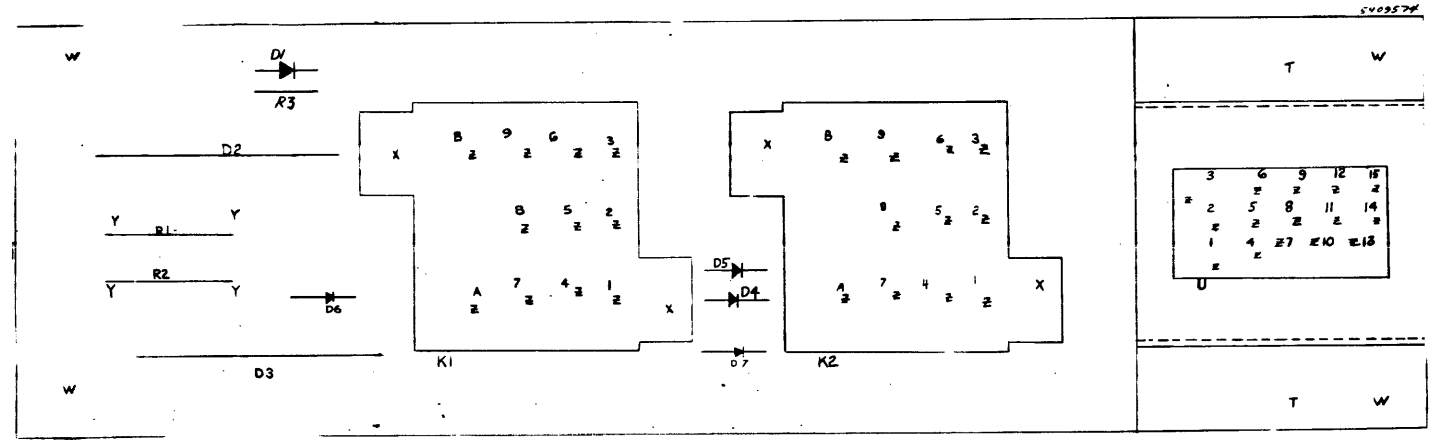
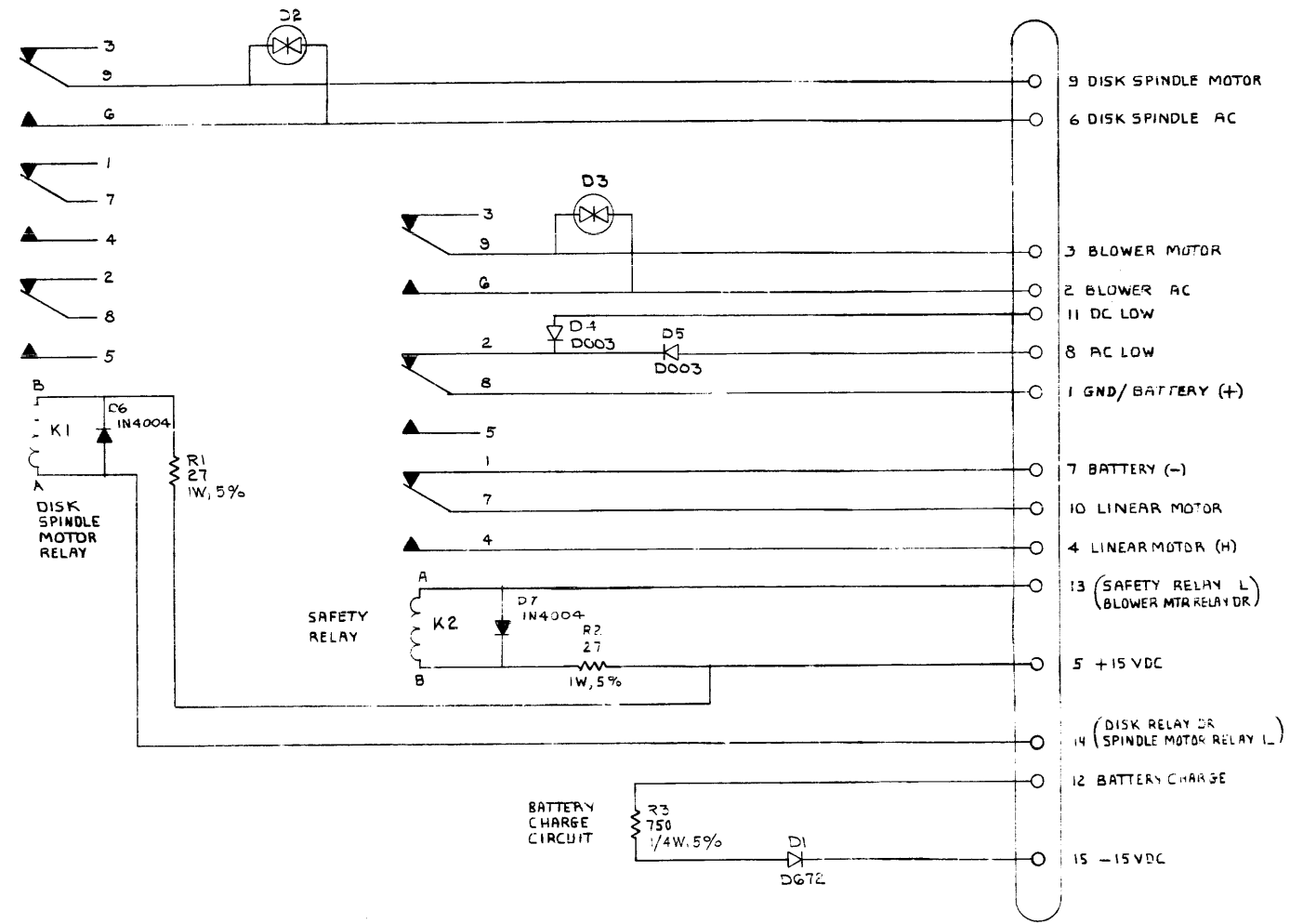
CONTROL PANEL (RK05)

5409698-0-0

EIA 5409698-0-0

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- NOTE:
1. RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITIONS.
 2. SAFETY RELAY L AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
 3. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.
 4. THIS MODULE MUST BE UL APPROVED

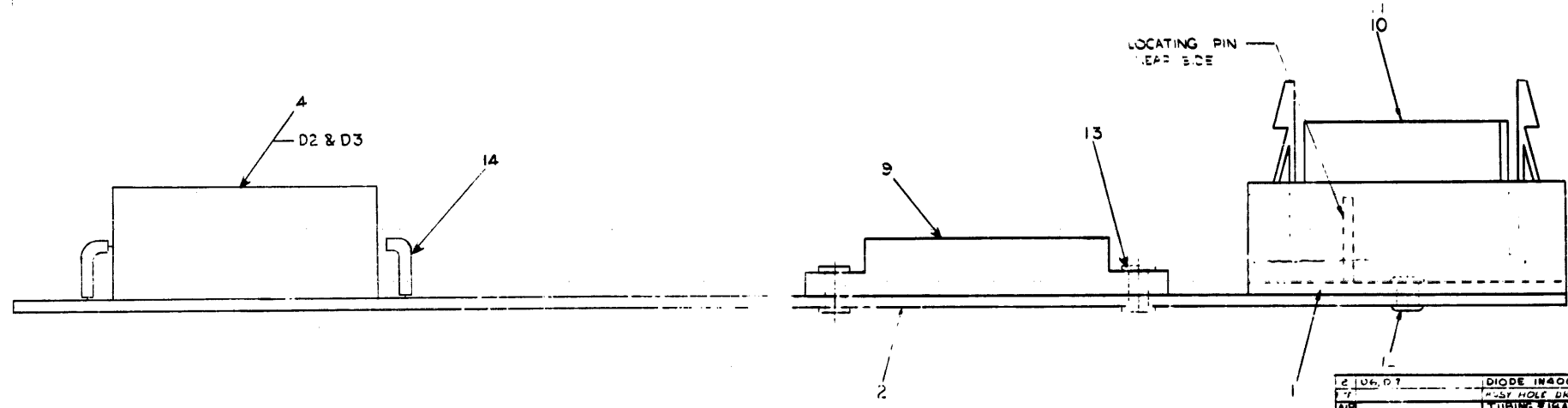
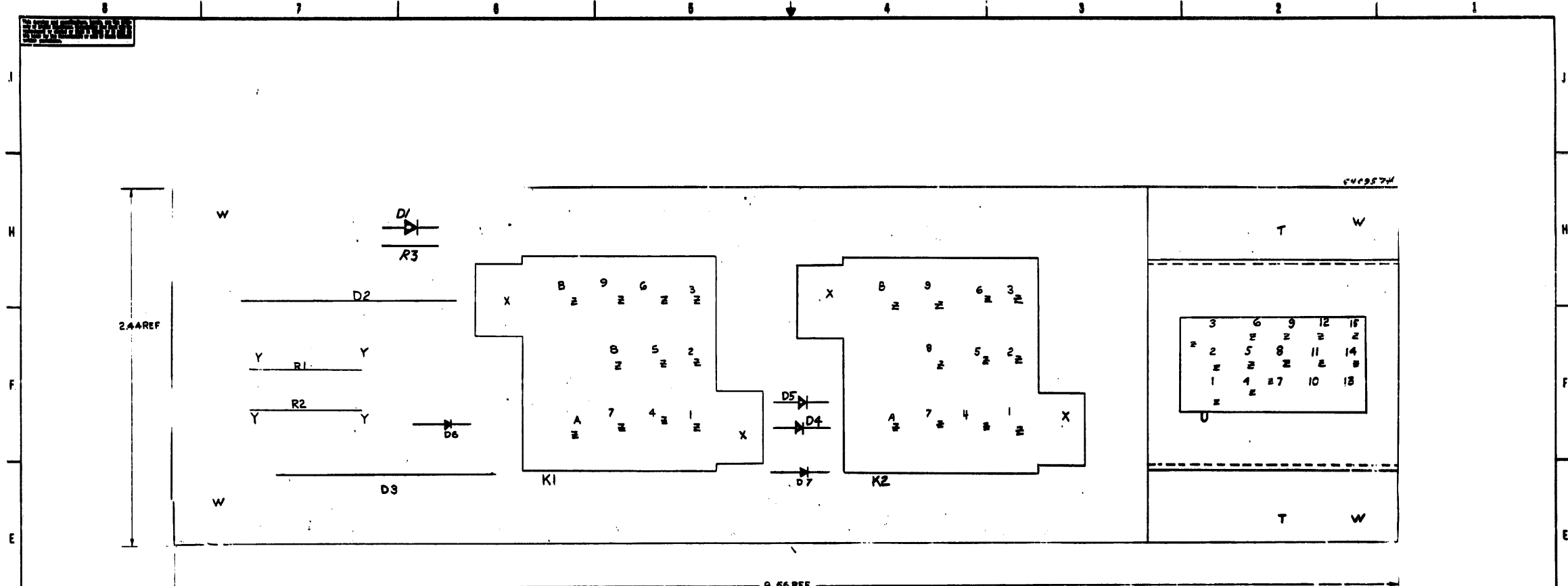


REVISIONS

CHK	CHANGE NO.	REV
J. RINALDIS	1	1/17/71
D. JENSEN	2	5/15/73
J. RINALDIS	3	11/17/75

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	D003	IN994		
	D672	IN3653		
ETCH BOARD REV F				
DRN. ROYER		DATE 12-9-71	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
CHK'D. GUILLETTE		DATE 12-15-71		
ENG. JENSEN		DATE 10 Jan 72		
PROJ. ENG. J. JENSEN		DATE 10 Jan 72		
PROD. J. JENSEN		DATE		
NEXT HIGHER ASSY				
DEC. NO.	EIA NO.	DEC. NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
SCALE	SIZE CODE		NUMBER	REV.
SHEET	OF	DIST.	DCS 5409574-0-1	H

5409574-0-1 H



QTY	REF DESIGNATION	DESCRIPTION	PART NO.
2	U1, D7	DIODE IN4004	1105796
2	F7	3.5" HOLE DARTING LAYOUT	44-3905-4021
1	AK	TUBING 1/16" WID X 1/8" TYP	510-12-78-1-1-3
3	3	EYELET .65" x .5"	5006712
2	4	EYELET .121" O.D. x .218" L	5006712
15	15	PINS FOR MATE-N-LOCK	12094 36-01
2	13	15 PIN MATE-N-LOCK	1209350-15
2	2	RELAY 50K	1210514
2	K1 K2	RELAY 50K 1000	1210514
2	R1 R2	RESISTOR 27 1/4W 5%	1501516
1	R3	RESISTOR 750 1/4W 5%	1501401
2	D1	DIODE D-72	1105796
2	D4, D5	DIODE SUPER-RECTOS P484	1105104
2	D4, D5	DIODE GRN P484	1105104
2		ETCHED CIRCUIT BOARD	5009573
REF		MODULE ECO HISTORY	5009573
REF		BRACKET MOTOR RELAY	5009573
REF		X-Y COORD. HOLE LOCAT	5009573
REF		CIRCUIT SCHEMATIC	5009573

CAUTION
CHANGE COULD AFFECT U.L. LISTING

FIRST USED ON
RK05

REV	DESCRIPTION	DATE	BY	CHKD
1	D-672	IN 3653		
2	D-1007	IN 994		

REV	DESCRIPTION	DATE	BY	CHKD
1	D-672	IN 3653		
2	D-1007	IN 994		

REV	DESCRIPTION	DATE	BY	CHKD
1	D-672	IN 3653		
2	D-1007	IN 994		

IC TYPE	QTY	REF	QTY

Check all components, parts, and connections on the assembly drawing. Components and parts shall not be substituted or replaced or used in place of the original unless approved in writing by the manufacturer or his authorized representative.

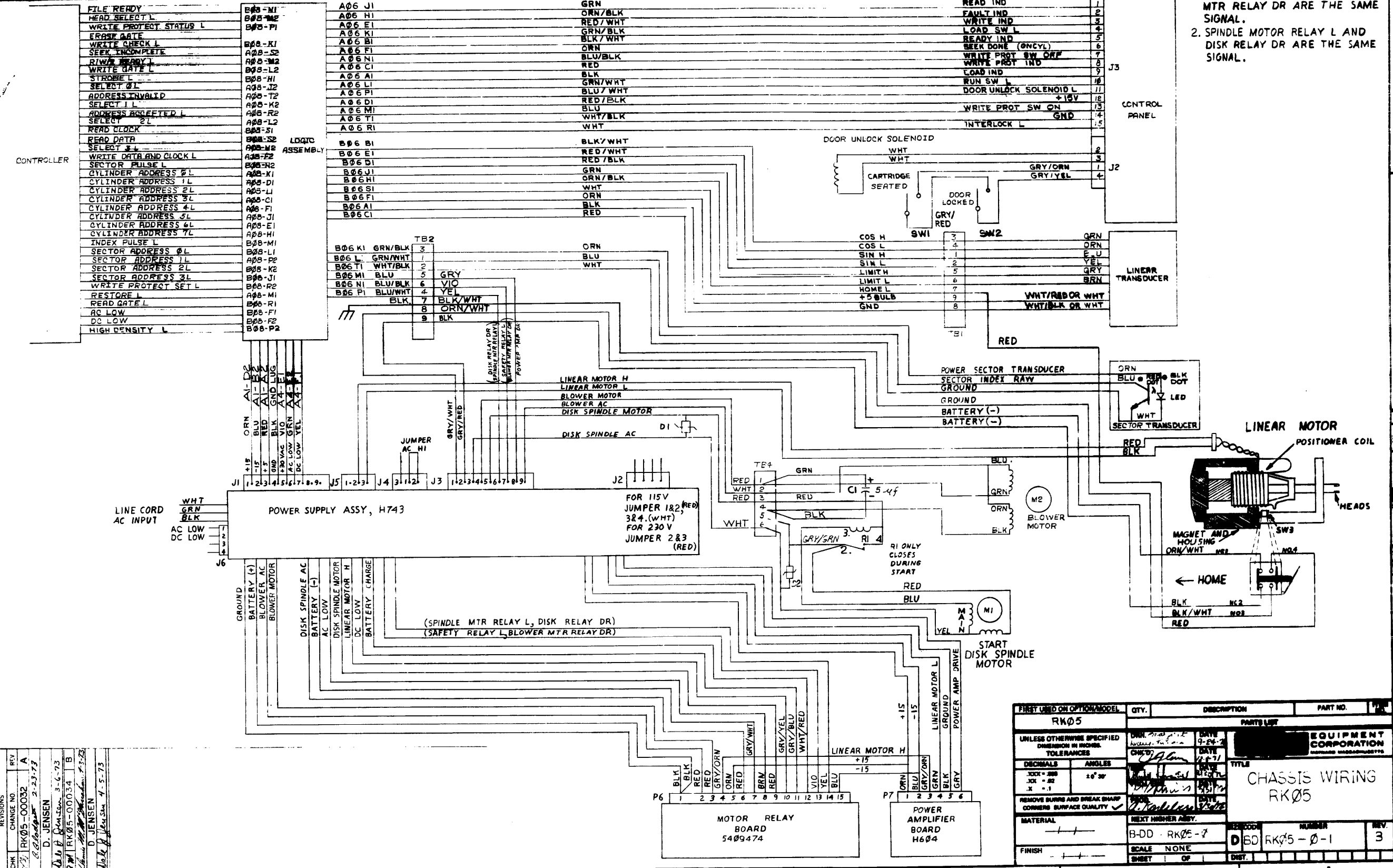
INTERFACE CABLE

FILE READY	B08-N1
HEAD SELECT L	B08-N2
WRITE PROTECT STATUS L	B08-P1
ERASE GATE	B08-K1
WRITE CHECK L	B08-S2
SEEK INCOMPLETE	B08-M2
R/W/R READY L	B08-L2
WRITE GATE L	B08-H1
STROBE L	B08-J2
SELECT 0 L	B08-T2
ADDRESS INVALID	B08-K2
SELECT 1 L	B08-R2
ADDRESS ACCEPTED L	B08-L2
SELECT 2 L	B08-S1
READ CLOCK	B08-S2
READ DATA	B08-M2
SELECT 3 L	B08-P2
WRITE DATA AND CLOCK L	B08-N2
SECTOR PULSE L	B08-N2
CYLINDER ADDRESS 0 L	B08-K1
CYLINDER ADDRESS 1 L	B08-D1
CYLINDER ADDRESS 2 L	B08-L1
CYLINDER ADDRESS 3 L	B08-C1
CYLINDER ADDRESS 4 L	B08-F1
CYLINDER ADDRESS 5 L	B08-J1
CYLINDER ADDRESS 6 L	B08-E1
CYLINDER ADDRESS 7 L	B08-H1
INDEX PULSE L	B08-M1
SECTOR ADDRESS 0 L	B08-L1
SECTOR ADDRESS 1 L	B08-P2
SECTOR ADDRESS 2 L	B08-K2
SECTOR ADDRESS 3 L	B08-J1
WRITE PROTECT SET L	B08-R2
RESTORE L	B08-M1
READ GATE L	B08-R1
AC LOW	B08-F1
DC LOW	B08-P2
HIGH DENSITY L	B08-P2

B06-N1	A06 J1	GRN
B06-N2	A06 H1	ORN/BLK
B06-P1	A06 E1	RED/WHT
B06-K1	A06 K1	GRN/BLK
B06-S2	A06 B1	BLK/WHT
B06-M2	A06 F1	ORN
B06-L2	A06 N1	BLU/BLK
B06-H1	A06 C1	RED
B06-J2	A06 A1	BLK
B06-T2	A06 L1	GRN/WHT
B06-K2	A06 P1	BLU/WHT
B06-R2	A06 D1	RED/BLK
B06-L2	A06 M1	BLU
B06-S1	A06 T1	WHT/BLK
B06-S2	A06 R1	WHT
B06-M2	B06 B1	BLK/WHT
B06-P2	B06 E1	RED/WHT
B08-N2	B06 D1	RED/BLK
B08-K1	B06 J1	GRN
B08-D1	B06 H1	ORN/BLK
B08-L1	B06 S1	WHT
B08-C1	B06 F1	ORN
B08-F1	B06 A1	BLK
B08-J1	B06 I1	RED
B08-E1	B06 C1	RED
B08-H1	B06 M1	GRN/BLK
B08-M1	B06 L1	ORN
B08-P2	B06 T1	WHT/BLK
B08-K2	B06 M1	BLU
B08-J1	B06 N1	WHT
B08-R2	B06 I1	GRY
B08-M1	B06 N1	BLU
B08-R1	B06 P1	WHT
B08-F1	B06 P1	BLK
B08-P2	B06 P1	BLK

B06 K1	GRN/BLK	3
B06 L1	GRN/WHT	1
B06 T1	WHT/BLK	5
B06 M1	BLU	6
B06 N1	BLU/BLK	4
B06 P1	BLU/WHT	7
B06 P1	BLK	8
B06 P1	BLK	9

NOTES:
 1. SAFETY RELAY L AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
 2. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.



REVISIONS

CHK	CHANGE NO.	REV.
	RK05-00032	A
	RK05-00033	B
	RK05-00034	B
	RK05-00035	B
	RK05-00036	B
	RK05-00037	B
	RK05-00038	B
	RK05-00039	B
	RK05-00040	B
	RK05-00041	B
	RK05-00042	B
	RK05-00043	B
	RK05-00044	B
	RK05-00045	B
	RK05-00046	B
	RK05-00047	B
	RK05-00048	B
	RK05-00049	B
	RK05-00050	B

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.
RK05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		PARTS LIST		
DECIMALS	ANGLES	DATE		EQUIPMENT CORPORATION
.XXX ± .000	± 0° 30'	9-24-73		
.XX ± .02		DATE		CHASSIS WIRING
.X ± .1		11-27-73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE		RK05
		11-27-73		
MATERIAL		NEXT HIGHER ASSY.		REV. 3
		B-DD - RK05-7		
FINISH		SCALE NONE		REV. 3
		DIST.		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			ACCESSORY LIST		LEGEND		QUANTITY/VARIATION																		
MADE BY DATE G. Schneider		CHECKED <i>[Signature]</i> DATE 8/17/72		SECTION		D DOCUMENT		All RK05's for all RK05's		All RK05's for all RK05's		KIT CHECK		BY DATE		INSTALLATION CHECK		BY DATE							
ENG <i>[Signature]</i> DATE 8/17/72		PROD <i>[Signature]</i> DATE 8/17/72		ISSUED SECT.		DN DOCUMENT CHANGE NOTICE														PA PAPER TAPE ASCII		PB PAPER TAPE BINARY		PM PAPER TAPE READ-IN-MODE	
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																							
1	RK05-0	Customer Print Set (B-DD-RK05-0 Sheet one only)		1	1																				
2	DEC-RK05-TPR-1	ILLUSTRATED PARTS BREAK DOWN FOR RK05		1	1																				
3	DEC-00-RK05JF-DA	Maintenance Manual		1	1																				
4	BC 11A-08	Unibus Cable 8 feet		1	1																				
5	2200007	Head Cleaning Kit		1	1																				
6	3010350-00	Disk Cartridge 12 Sector		1	0																				
7	3010350-02	Disk Cartridge 16 Sector		0	1																				
8*	A-AD-7009276-Q-0	Mounting Hardware KIT		1	1																				
9*	1209152-0-2 REF	Slide Chassis (Use set that was issued to Assy Line)		1	1																				
NOTE: The following items are additionally required when unit is shipped in a rack.																									
10	749691-1	Shipping Bracket (Left Hand)		1	1																				
11	749691-2	Shipping Bracket (Right Hand)		1	1																				
12**	3611382	Drive Identification Numbers		1	1																				
*NOTE: If unit is shipped in a rack, Items 8 and 9 are mounted to the rack.																									
**NOTE: Attach the drive identification number set to the instruction sheet #DEC-16-(379)-1094-N573 using transparent adhesive tape. Insert sheet behind front cover of maintenance manual																									
***NOTE: MAXIMUM TOTAL UNIBUS CABLE LENGTH = 50 FEET																									

TITLE DECpack Assembly		ASSY. NO.		SIZE CODE A AL		NUMBER RK05-0-17				REV. F		ECO NO RK05J 00006	
SHEET 1 OF 1		DIST.											

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

DRAWING DIRECTORY
CIRCUIT SCHEMATIC
±5V REGULATOR
CIRCUIT SCHEMATIC
±15V REGULATOR
CIRCUIT SCHEMATIC

SEQUENCE	T	B-DD-H743- 0	SHEET #1 ONLY	SEQUENCE	T
		D-CS-H743-	1		
		E-1A-5409503-	0-0		
		D-CS-5409503-	0-1		
		E-1A-5409484-	0-0		
		D-CS-5409484-	0-1		

MFG PRINTS

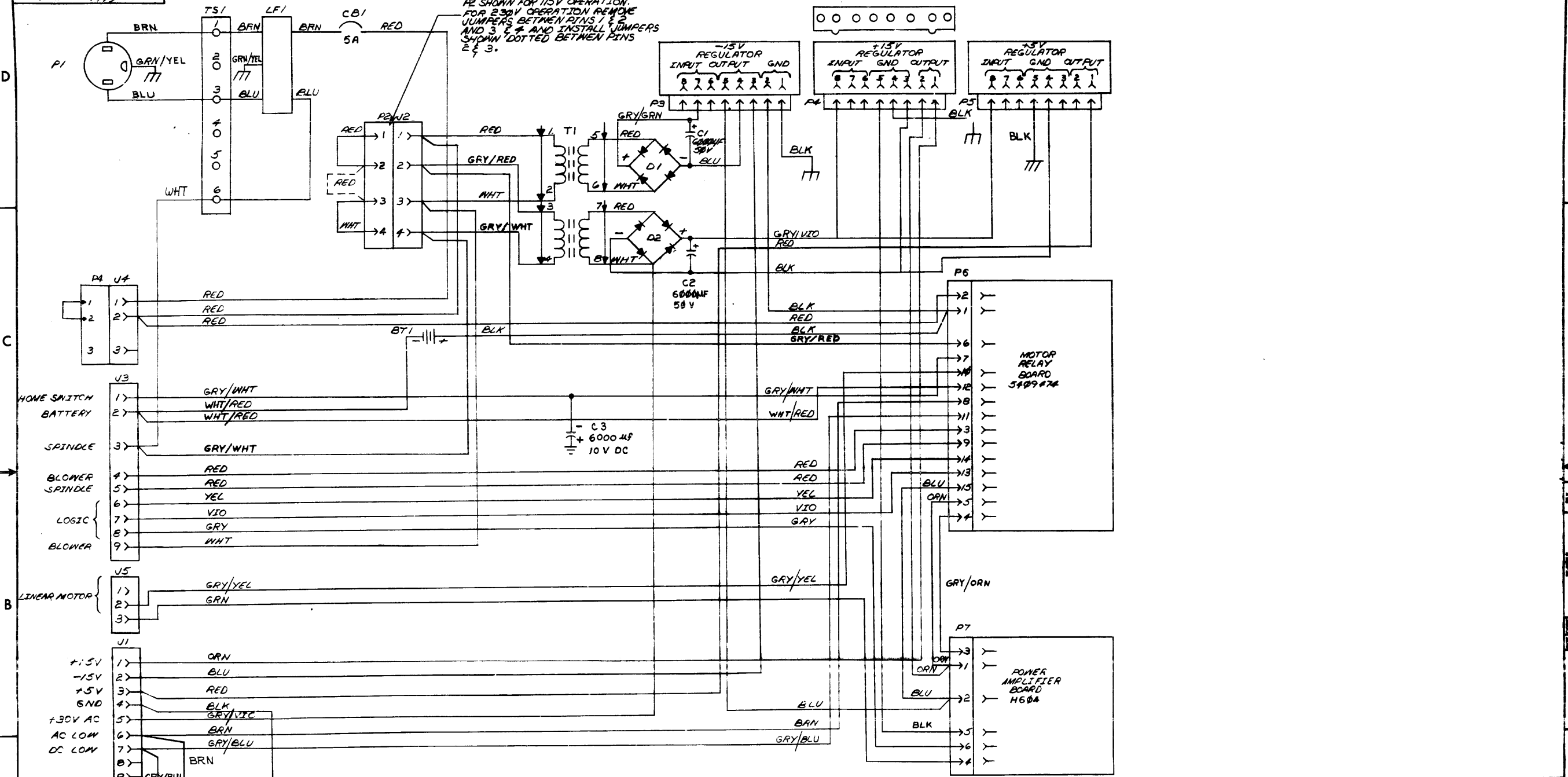
POWER SUPPLY	E-UA-H743-0-0
POWER SUPPLY (PL)	A-PL-H743-0-0
DRAWING DIRECTORY	B-DD-H743-
PACKAGING INSTRUCTION	A-PI-3700130-0-0

VARIATION	UNIT VARIATIONS TITLE	PRINT SET TYPE				
		H743-AA	POWER SUPPLY 115V	X		
H743-AB	POWER SUPPLY 230V	X				

REVISIONS	DATE	CHG. NO.	REV
			A
			B
			C
			D
			E
			F
			H
			J
			K
			L
			M
			N
			P
			R
			S
			T
			U
			V

USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE	CODE	NUMBER	REV
RK05	J. FLEMING	12/671	POWER SUPPLY (H743)	B	DD	H743-0	✓
	CHK'D.	DATE					
	PROJ ENG.	DATE					
	PROD.	DATE					
	FIELD SERV.	DATE					
	SHEET 1 OF 3			DIST			

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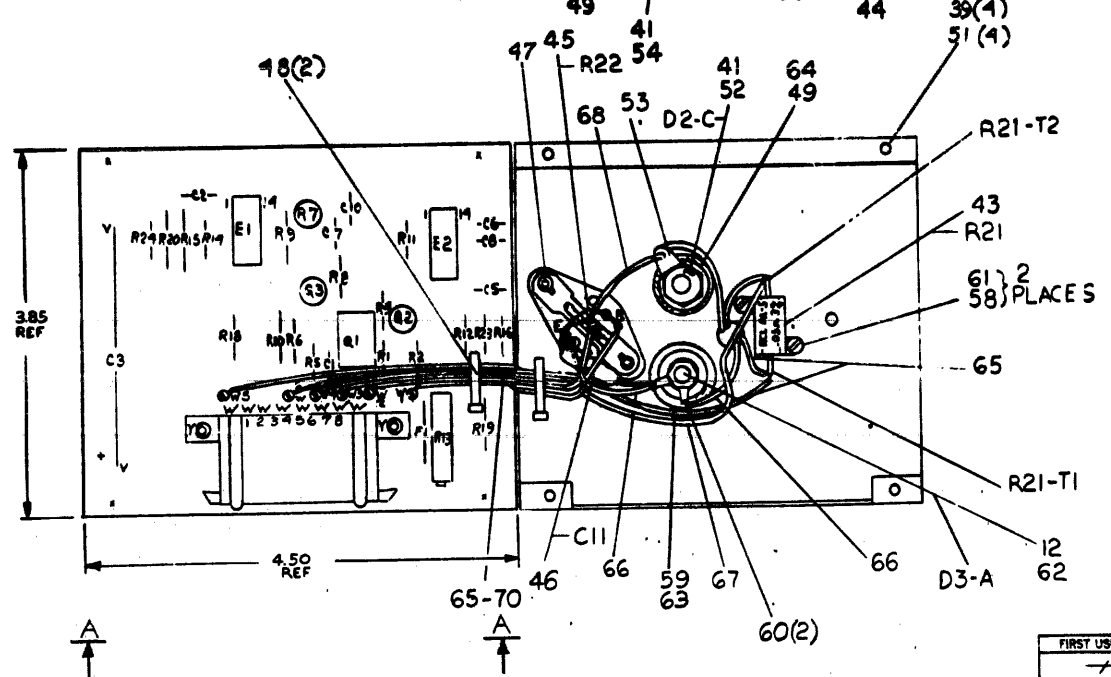
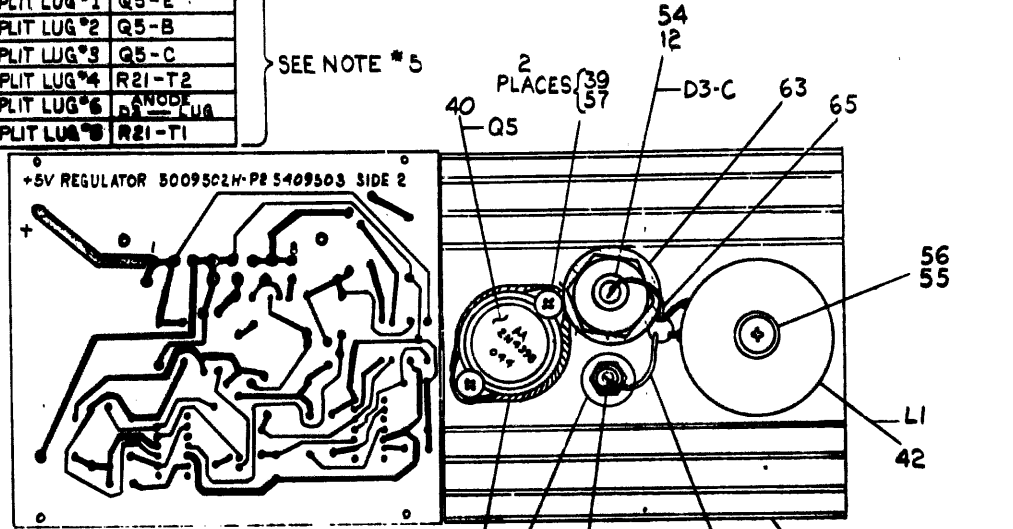
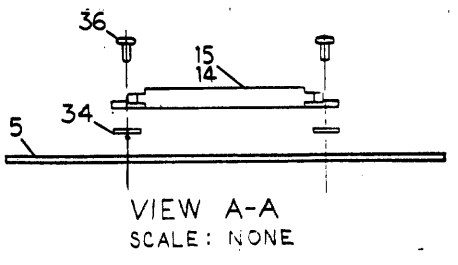
P2 SHOWN FOR 115V OPERATION. FOR 230V OPERATION REMOVE JUMPERS BETWEEN PINS 1 & 2 AND 3 & 4 AND INSTALL JUMPERS SHOWN DOTTED BETWEEN PINS 2 & 3.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
EQUIPMENT CORPORATION				
TITLE				
CIRCUIT SCHEMATIC				
H743				
NEXT HIGHER ASSY				
B-DD-H743-0				
SCALE 1/4" = 1"				
SHEET 1 OF 1				
DISTRIBUTION				
DISTRIBUTION				

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WIRE TABLE							EXTERNAL COMPONENTS					
ITEM NO.	AWG	COLOR	IN. \pm	LENGTH-X	LENGTH-Y	CONNECTIONS FROM TO	ITEM NO.	LENGTH	DESCRIPTION	POL.	CONNECTIONS FROM TO	POL.
42		BLK	2 3/8		1/2"	L1 CATHODE	45	NOTE #2	RES. 100 AWG 3/8"		Q5-E	Q5-B
42		BLK	2 3/8		1/2"	L1 R21-T2	46	NOTE #3	CAR. IOWE 50X100	+	Q5-E	D3-LUG
68	18	VIO	2 1/4	1/2"	1/2"	Q5-C CATHODE						
66		GRN	4 1/4	1/2"	1/2"	D2 ANODE						
65		YEL	4 3/8	1/2"	1/2"	D3 CATHODE						
70		WHT	4 3/8	1/2"	1/2"	SPLIT LUG #1						
69		GRY	5 1/4	1/2"	1/2"	SPLIT LUG #2						
68		VIO	5 1/4	1/2"	1/2"	SPLIT LUG #3						
67		BLU	8	1/2"	1/2"	SPLIT LUG #4						
66		GRN	5 3/4	1/2"	1/2"	SPLIT LUG #6						
65	18	YEL	8 1/4	1/2"	1/2"	SPLIT LUG #8						

- NOTES:
- R13 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R7 IS USED FOR OUTPUT CURRENT ADJUSTMENT.
 - CUT LEADS OF RES. (R22) SO THERE IS 3/8" OF A LEAD LEFT ON BOTH ENDS. [R22]
 - CUT LEADS OF CAR (C11) SO THERE IS 1/2" OF A LEAD LEFT ON BOTH ENDS. [C11]
 - THERMAL COMPOUND (ITEM 31) IS TO BE APPLIED TO BOTH SIDES OF ALL THERMAL INSULATORS (ITEM 49, 50 & 63). BOTH SIDES OF EACH INSULATOR SHOULD BE COVERED, LEAVING NO VOIDS WHEN INSTALLED. CARE MUST BE EXERCISED SO THAT NO EXTRA COMPOUND INTERFERES WITH ANY ELECTRICAL CONNECTION MADE TO ANY DEVICE.
 - WHEN ASSEMBLING THE WIRES FROM THE CIRCUIT BOARD TO THE HEAT SINK, PLACE THE MODULE AGAINST THE HEAT SINK, WIRE AS SHOWN BY THE WIRE LIST AND MAKE A SERVICE LOOP AT THE CONNECTIONS ON THE HEAT SINK TO TAKE UP ANY EXCESS WIRE THAT MIGHT BE AVAILABLE.



IC TYPE	GND	+5V

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

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
	ETCH BOARD REV	H		
	IN 385	SAME		
	2N 439B			
	D4506			
	2N 4441			
	DE 2 6554 D	MPS 6534		
	IN 752 A	SAME		

REVISIONS

CHK	CHANGE NO.	REV

DRN	DATE	DESCRIPTION
G. MARINI	8-21-71	
J. FLEMING	8-27-71	
P. VENDSON	9-8-71	
P. VENDSON	9-8-71	
P. FAZIO	9-9-71	

SEMICONDUCTOR CONVERSION CHART

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

TITLE: + 5 VOLT POWER REGULATOR

EQUIPMENT CORPORATION

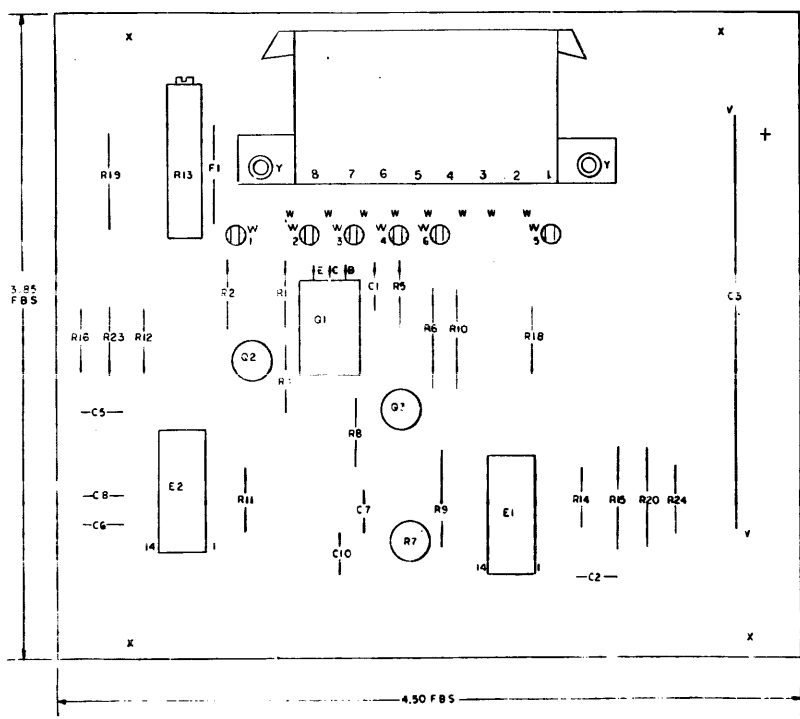
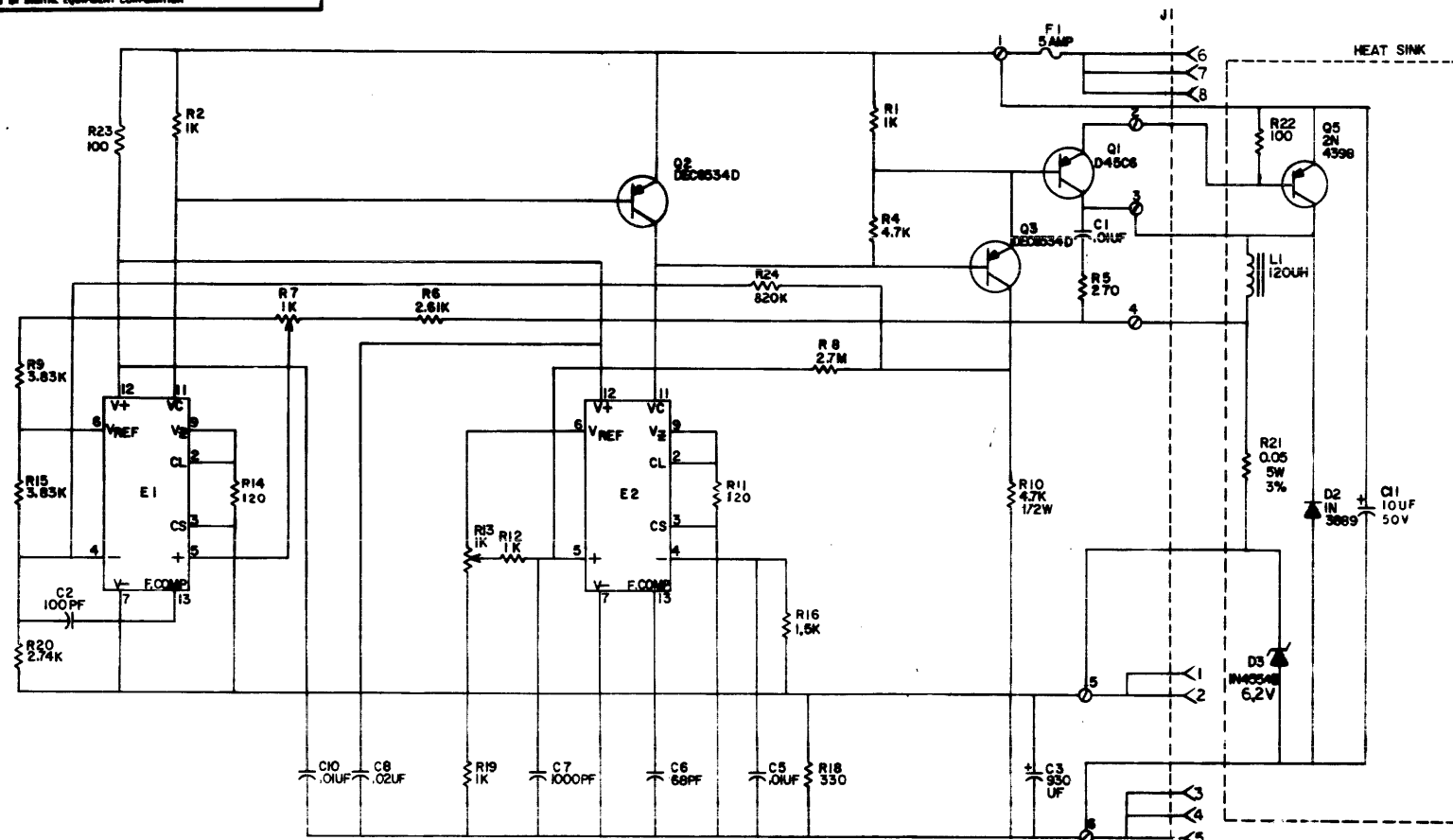
SCALE: NONE

1 OF 1

DIA 5409503-0-0 R

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1961 BY AIRTEL EQUIPMENT CORPORATION

1-0-5409503-01 0



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	Q1	TRANSISTOR 2N4398	1504870	40
2	Q2, Q3	TRANSISTOR DEC6934D	1503409-00	30
1	R8	RES 2.7M 1/4W 5%	1309690	29
2	R9, R15	RES 3.93K 1/8W 1%	1309413	28
1	R7	RES 1K 1/2W 20%	1309150-3	27
1	R13	RES 1K 10W 76 P/P	1309143-07	26
1	R20	RES 2.74K 1/8W 1% MF	1309869	25
1	R6	RES 2.61K 1/8W 1% MF	1303303	24
1	R19	RES 1K 1/8W 1% MF	1303114	23
1	R10	RES 4.7K 1/2W 5%	1300443	21
1	R5	RES 270 1/4W 5%	1301372	20
1	R4	RES 4.7K 1/4W 5%	1300447	19
3	R1, R2, R12	RES 1K 1/4W 5%	1300365	18
1	R18	RES 330 1/4W 5%	1300235	17
1	R24	RES 820K 1/4W 10%	1303187	16
8		CONNECTOR PIN	1209456	15
1	J1	CONN B PIN AMP	1209340-00	14
1	F1	FUSE 5 AMPS	1209070	13
1	D3	DIODE IN4554B 6.2V	1112122	12
1	C8	CAP .02UF 100V -0 +20% DISC	1000004	11
1	C3	CAP 93UF 30V -10 +75% ELEC.	1010509	10
3	C1, C5, C10	CAP .01UF 100V 20% DISC	1001610	9
1	C7	CAP 1000PF 100V 5% MICA	1000042	8
1	C2	CAP 100 PF 100V 5% DM	1000016	7
1	C6	CAP 68PF 100V 5% DM	1000014	6
1		ETCH CIRCUIT BOARD	5009502	5
		MODULE ECO HISTORY	B-MH-5409503-0-4	4
		ASSY/DRILLING HOLE LAYOUT	D-AH-54095030-5	3
		X-Y COORDINATE HOLE LOCATION	K-CO-54095030-4	2
		+5V REGULATOR	D-IA-5409503-0-0	1

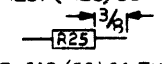
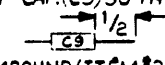
TRANSISTOR & DIODE CONVERSION CHART

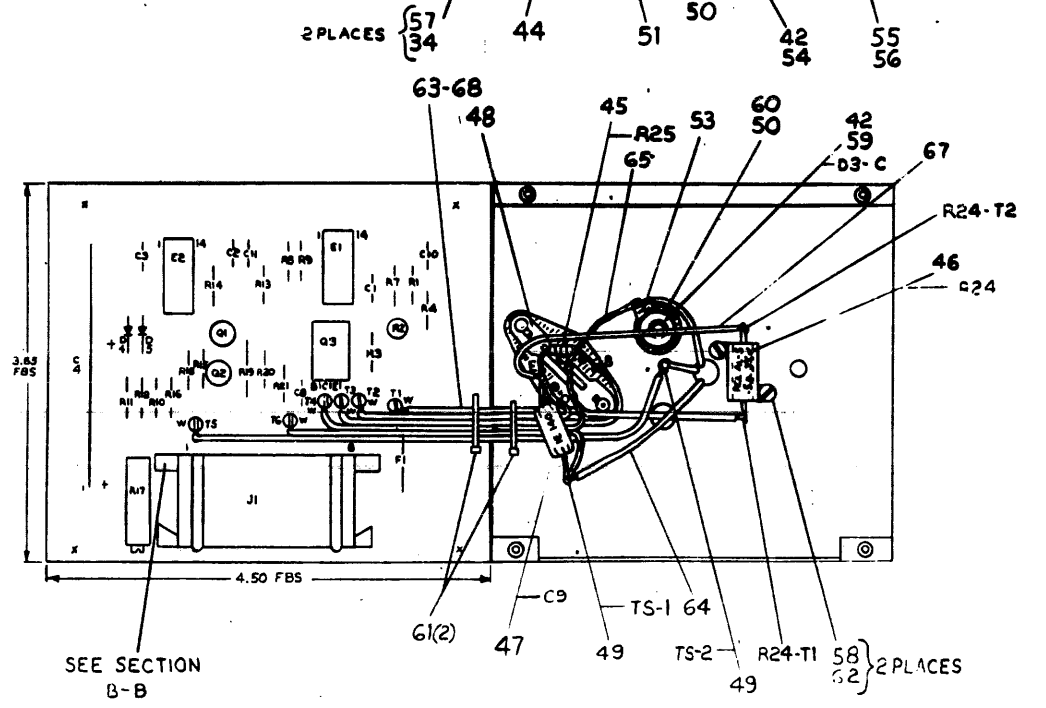
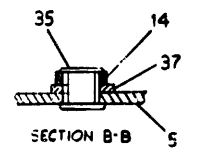
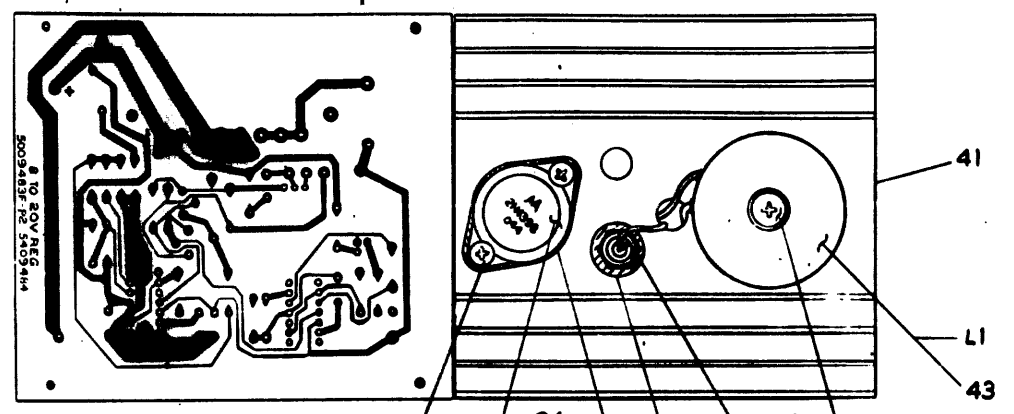
DATE: 6-2-77
 S. Cooper
 Wm. Moore

EQUIPMENT CORPORATION
 5409503-0-1

1-0-5409503-01

WIRE TABLE						EXTERNAL COMPONENTS					
ITEM NO.	DESCRIPTION	LENGTH INCHES ± 1/8	STRIP LENGTH X	STRIP LENGTH Y	CONNECTIONS FROM TO	ITEM NO.	LENGTH	DESCRIPTION	POL	CONNECTIONS FROM TO	POL
43	BLK	2 1/8	—	1/2	L1	43	SEE NOTE 2	RES 100Ω 1/4W 5%	—	Q4-E	Q4-B
43	BLK	2 1/8	—	1/2	L1	44	SEE NOTE 3	CAP 10UF 50V 10%	+	Q4-E	TS-1
65	18 BLU	2 1/4	1/2	1/2	Q4-C	D3-A					
67	18 GRN	3 5/8	1/2	1/2	Q4-E	R24-T2					
64	18 GRN	4 1/2	1/2	1/2	D3-ANODE	TS-1					
68	18 WHT	5 7/8	1/2	1/2	SPLIT LUG	R24-T1					
67	18 GRN	4 7/8	1/2	1/2	#2	Q4-E					
66	18 VIO	5 1/8	1/2	1/2	#3	Q4-B					
65	18 BLU	5 1/8	1/2	1/2	#4	Q4-C					
64	18 GRN	5 1/2	1/2	1/2	#6	TS-1					
63	18 YEL	6 7/8	1/2	1/2	SPLIT LUG	TS-2					

- NOTES:
- R17 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R25 USED FOR OUTPUT POWER ADJUSTMENT.
 - CUT LEADS OF RES. (R25) SO THERE IS 3/8" OF A LEAD LEFT AT BOTH ENDS. 
 - CUT LEADS OF CAP. (C9) SO THERE IS 1/2 OF A LEAD LEFT AT BOTH ENDS. 
 - THERMAL COMPOUND (ITEM #39) IS TO BE APPLIED TO BOTH SIDES OF ALL THERMAL INSULATORS (ITEM #50-51) BOTH SIDES OF EACH INSULATOR SHOULD BE COMPLETELY COVERED, LEAVING NO VOIDS WHEN INSTALLED. CARE MUST BE EXERCISED SO THAT NO EXTRA COMPOUND INTERFERES WITH ANY ELECTRICAL CONNECTION MADE TO ANY DEVICE.
 - WHEN ASSEMBLING THE WIRES FROM THE CIRCUIT BOARD TO THE HEAT SINK, PLACE THE MODULE AGAINST THE HEAT SINK. WIRE AS SHOWN BY THE WIRE LIST AND MAKE A SERVICE LOOP AT THE CONNECTIONS ON THE HEAT SINK TO TAKE UP ANY EXCESS WIRE THAT MIGHT BE AVAILABLE.

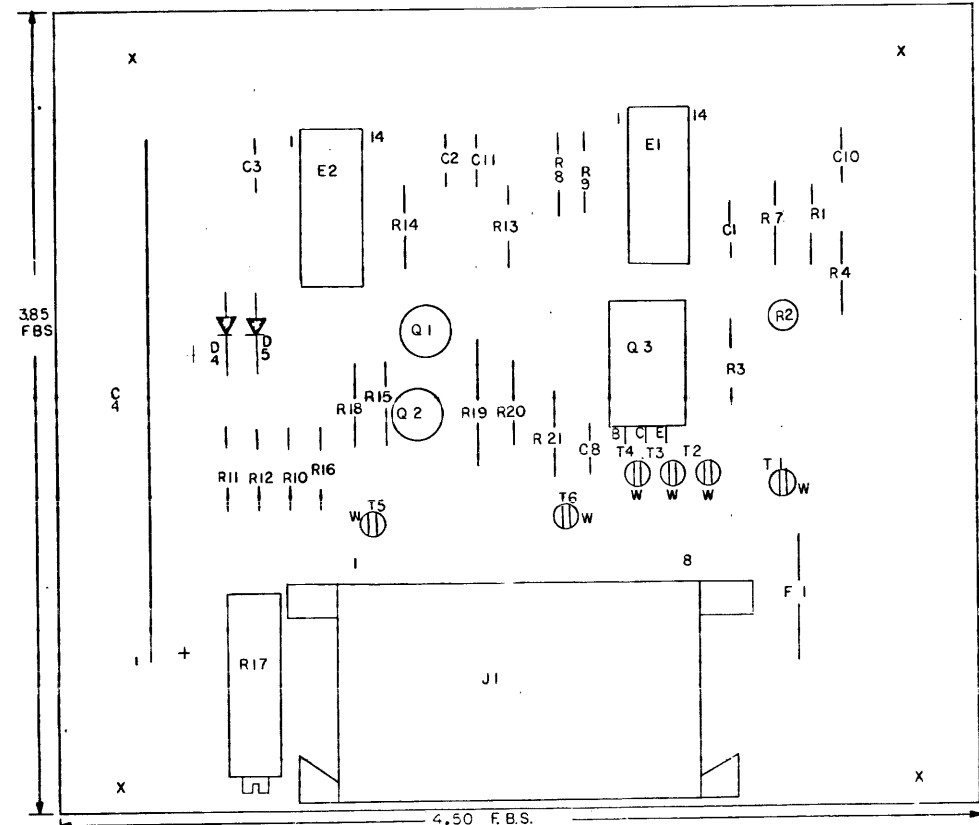
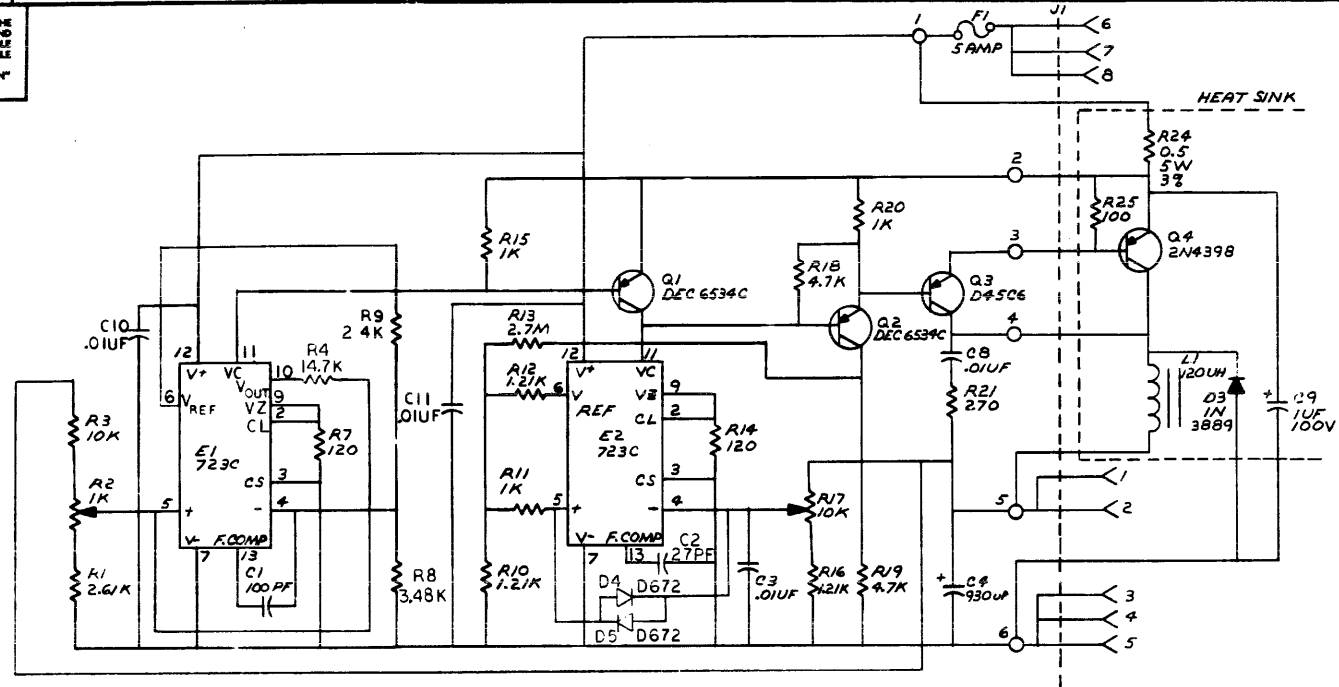


QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRN. T. GULLIN		DATE 7 SEP 71	EQUIPMENT CORPORATION WATYARD MASSACHUSETTS TITLE 8 T 2V REGULATOR SIZE CODE: D IA NUMBER: 54094-4-0-0 REV. K	
CHK'D. J. FLEMING		DATE 8 SEP 71		
ENG. P. SVENDSEN		DATE 10 SEP 71		
PROL. ENG. P. SVENDSEN		DATE 10 SEP 71		
PROD. P. FAZI		DATE 10 OCT 71		
NEXT HIGHER ASSY D-UA-H737-0-0				
SCALE NONE		SEMICONDUCTOR CONVERSION CHART		
SHEET 1 OF 1		DIST.		

REV	CHANGE NO.	REVISIONS
1	1	REVISED DRAWN
2	2	54C 9484-C0007 K
3	3	CHK

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4	WASHER, LOCK SPRING	9007801	69
A/R	WIRE #18 AWG STAD (WHT)	9107360-99	2
A/R	WIRE #18 AWG STAD (GRY)	9107360-88	2
A/R	WIRE #18 AWG STAD (VIO)	9107360-77	2
A/R	WIRE #18 AWG STAD (BLU)	9107360-66	2
A/R	WIRE #18 AWG STAD (GRN)	9107360-55	4
A/R	WIRE #18 AWG STAD (YEL)	9107360-44	2
2	#2 INTERNAL LOCK WASHER	9006631	2
2	TIE WRAPS	9007031	61
1	WASHER FLAT 3/16	9006666	2
1	#70-32 HEX NUT	9006564	2
2	2/56 x 3/16" SCREW	9006000	38
2	6/32 x 5/8" PAN HD SCREW	9006025	17
1	10-32 x 1" TRUSS HD SCREW	9006077	3
1	#40 INTERNAL LOCK WASHER	9006635	5
1	BUSHING (DIODE)	9003441	54
1	SOLDER LUG	9008150	53
4	#6-20 x 3/8 SELF TAPPING SCREW	9008407-01	52
1	THERMAL INSULATOR	9009417	51
2	THERMAL INSULATOR	9008424	50
2	STAND OFF (STUD TYPE)	9009060	49
1	TRANSISTOR SOCKET	1210130	48
1	CAP 1UF 100V	1005507	47
1	RES. 0.5 3% 5W	1310508	46
1	RES. 100 5% 1/4W	1300229	45
1	TRANSISTOR 2N4398	1505870	44
1	120UH CHoke	1610573	43
1	DIODE 1N3889	1110491	42
1	HEAT SINK	D-2A-3309543-0-0	41
6	SPLIT LUGS	9006735	40
A/R	TH-HERAL COMPOUND	9008268	39
1	FUSE 5 AMPS	1209070	38
2	WASHER NYLON	9006707	37
2	CONNECTOR PINS	1209456	36
2	EYELET	9006732	35
2	WASHER INT TOOTH #6	9006633	34
2	DIP REGULATOR 723C	1910415	33
1	TRANSISTOR D4506	1510414	32
2	TRANSISTOR 6534C	1503409-02	31
1	RES. 270 1/4W 5%	1301972	29
1	RES. 4.7K 1/2W 5%	1300445	28
1	RES. 4.7K 1/4W 5%	1300447	27
1	RES. VARIABLE 10K 3/4W 10%	1309143-10	26
1	RES. 2.7M 1/4W 5%	1309680	25
3	RES. 1K 1/4W 5%	1300365	24
3	RES. 1.2K 1/8W 1% MF	1302871	23
1	RES. 3.48K 1/8W 1% MF	1302874	22
2	RES. 120 1/4W 5%	1300247	21
1	RES. 2.4K 1/4W 5%	1303177	19
1	RES. 14.7K 1/8W 1% MF	1302941	18
1	RES. 10K 1/8W 1% MF	1303312	17
1	RES. VARIABLE 1K 1/2W	1309150-03	16
1	RES. 2.61K 1/8W 1% MF	1303303	15
1	AMP 8 PIN CONNECTOR (MATELOC)	1209340-00	14
2	DIODE D672	1105275	13
			12
			11
			10
1	CAP. 990UF 30V -10+25	1000509	9
4	CAP. .01UF 100V 20% AXIAL	1001610	8
1	CAP. 27PF 100V 5% MICA	1001751	7
1	CAP. 100PF 100V 5% DM.	1000016	6
1	ETCHED CIRCUIT BOARD	5709483	5
	MODULE ECO HISTORY	B-MH-5803-38-06	4
	AS Y DRILLING HOLE LAYOUT	D-AH-5803-134-0-5	3
	X-COORDINATE HOLE LOCATION	K-CO-5401484-0-4	2
	B TO 20V REGULATOR	E-2A-5401484-0-0	1

CHK	CHANGE NO.	REV.	DATE	BY
	00005	H	15409484-00006	J. RINALDIS
		H	15409484-00007	J. RINALDIS
		H	15409484-00008	J. RINALDIS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.
1		3 TO 20V REGULATOR	D CS 5404184-0-1
SCALE	SHEET 1 OF 1	DIST.	

DRWG NO	REVLTR
K-WL-RKØ5-Ø-3	C

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RKØ5-0001	7/72	Ed
B	RKØ5-00031	2/73	Ed
C	RKØ5J-00005	4/76	MM

DRAWN <i>RE Hellen</i>	DATE 11/8/71		TITLE WIRE LIST (RKØ5)		
CHECKED <i>[Signature]</i>	DATE 11-1-71		FOR TAPE # FILE #		
ENG <i>[Signature]</i>	DATE 24 Nov 71		SIZE K	CODE WL	DWG. NO. RKØ5-Ø-3
PROJ ENG <i>[Signature]</i>	DATE 11-24-71		ASSY NO D-AD-7008696-0-0	REV LTR C	
PROD <i>[Signature]</i>	DATE 11/29/71	SCALE NONE	SHEET	OF	
		DIST.			

RR05.C RUN NAME	A/P	WRP260.V34(62)-1 PIN NAME	ORDER PIN	31-JUL-75 RAY - ORDER	Q	DRAW	HV RG Y OPT	X	Z	REMARKS	2-JUN-76	8:56 NC FLAG	PAGE 3 LENGTH EXCEPTIONS	RUN NUMBER
CYC ADDR 1	L	A07D1		1-21 *			D05-6		2				1	25
CYC ADDR 1	L	A08D1		1-22 *			D05-6		1			6-4/8		25
CYC ADDR 1	L	R03N1		1-23 *			D05-6					7-4/8		25
CYC ADDR 1	L			1										25
CYC ADDR 2	L	A08L1		1-21 *			D05-6		2			1		26
CYC ADDR 2	L	A07L1		1-22 *			D05-6		1			5-3/8		26
CYC ADDR 2	L	R03P1		1-23 *			D05-6					6-3/8		26
CYC ADDR 2	L			1										26
CYC ADDR 3	L	A07C1		1-21 *			D05-6		2			1		27
CYC ADDR 3	L	A08C1		1-22 *			D05-6		1			5-2/8		27
CYC ADDR 3	L	R03M1		1-23 *			D05-6					6-2/8		27
CYC ADDR 3	L			1										27
CYC ADDR 4	L	A07F1		1-21 *			D05-6		2			1		28
CYC ADDR 4	L	A08F1		1-22 *			D05-6		1			6-4/8		28
CYC ADDR 4	L	R03R1		1-23 *			D05-6					7-4/8		28
CYC ADDR 4	L			1										28
CYC ADDR 5	L	A07J1		1-21 *			D05-6		2			1		29
CYC ADDR 5	L	A08J1		1-22 *			D05-6		1			5-3/8		29
CYC ADDR 5	L	R03U1		1-23 *			D05-6					6-3/8		29
CYC ADDR 5	L			1										29
CYC ADDR 6	L	A08F1		1-21 *			D05-6		2			1		30
CYC ADDR 6	L	A07F1		1-22 *			D05-6		1			6-5/8		30
CYC ADDR 6	L	R03V1		1-23 *			D05-6					7-5/8		30
CYC ADDR 6	L			1										30
CYC ADDR 7	L	A07H1		1-21 *			D05-6		2			1		31
CYC ADDR 7	L	A08H1		1-22 *			D05-6		1			5-2/8		31
CYC ADDR 7	L	R03S1		1-23 *			D05-6					6-2/8		31
CYC ADDR 7	L			1										31
DC LOW	H	A04D1		1-21 *			D05-8		1			5		32
DC LOW	H	R08F2		1-22 *			D05-8		2			1		32
DC LOW	H	R07F2		1-23 *			D05-8					6-0/8		32
DC LOW	H			1										32
DIFF 1	L	A03A1		1-21 *			D05-7		1			5-7/8		33
DIFF 1	L	R05N2		1-22 *			D05-7							33
DIFF 1	L			1								5-7/8		33
DIFF 16	L	A03E1		1-21 *			D05-7		1			5-7/8		34
DIFF 16	L	R05T2		1-22 *			D05-7							34
DIFF 16	L			1								5-7/8		34
DIFF 2	L	A03B1		1-21 *			D05-7		1			5-5/8		35
DIFF 2	L	R05P2		1-22 *			D05-7							35
DIFF 2	L			1								5-5/8		35
DIFF 4	L	A03D1		1-21 *			D05-7		1			5-5/8		36
DIFF 4	L	R05R2		1-22 *			D05-7							36
DIFF 4	L			1								5-5/8		36

RR05.C RUN NAME	A/P	WRP260.V34(62)-1 PIN NAME	ORDER PIN	31-JUL-75 RAY - ORDER	Q	DRAW	HV RG Y OPT	X	Z	REMARKS	2-JUN-76	8:56 NC FLAG	PAGE 4 LENGTH EXCEPTIONS	RUN NUMBER
DIFF 8	L	A03C1		1-21 *			D05-7		1			5-7/8		37
DIFF 8	L	R05S2		1-22 *			D05-7							37
DIFF 8	L			1								5-7/8		37
DISK RELAY DR	H	A04N1		1-21 *			D05-8		1			4-1/8		38
DISK RELAY DP	H	R06P1		1-22 *			D05-8							38
DISK RELAY DP	H			1								4-1/8		38
DR UNLOCKING SOLENOID	L	R06P1		1-21 *			D05-8		1			4-5/8		39
DR UNLOCKING SOLENOID	L	R04V1		1-22 *			D05-8							39
DR UNLOCKING SOLENOID	L			1								4-5/8		39
FAULT IND	H	A04N2		1-21 *			D05-8		1			1-3/8		40
FAULT IND	H	A06H1		1-22 *			D05-8							40
FAULT IND	H			1								1-3/8		40
FWD	H	R03J1		1-21 *			D05-5		1			1-6/8		41
FWD	H	R05J2		1-22 *			D05-5							41
FWD	H			1								1-6/8		41
GND 01		A01C2		1-21 *					1			2-1/8		42
GND 01		A01T1		1-22 *					2			1-5/8		42
GND 01		R01C2		1-23 *					1			2-1/8		42
GND 01		R01T1		1-24 *										42
GND 01				1								5-7/8		42
GND 02		A02C2		1-21 *					1			2-1/8		43
GND 02		A02T1		1-22 *					2			1-5/8		43
GND 02		R02C2		1-23 *					1			2-1/8		43
GND 02		R02T1		1-24 *										43
GND 02				1								5-7/8		43
GND 03		A03C2		1-21 *					1			2-1/8		44
GND 03		A03T1		1-22 *					2			1-5/8		44
GND 03		R03C2		1-23 *					1			2-1/8		44
GND 03		R03T1		1-24 *										44
GND 03				1								5-7/8		44
GND 04		A04C2		1-21 *					1			2-1/8		45
GND 04		A04T1		1-22 *					2			1-5/8		45
GND 04		R04C2		1-23 *					1			2-1/8		45
GND 04		R04T1		1-24 *										45
GND 04				1								5-7/8		45
GND 05		A05C2		1-21 *					1			2-1/8		46
GND 05		A05T1		1-22 *					2			1-5/8		46
GND 05		R05C2		1-23 *					1			2-1/8		46
GND 05		R05T1		1-24 *										46
GND 05				1								5-7/8		46

PK25.C RUN NAME	A/P	WPP2RR.V34(62)-1 PIN NAME	ORDER PIN	31-JUL-75 RAY - ORDER	Q	DRAW OPT	PV RG Y	X	Z	REMARKS	2-JUN-76	8:56 FLAG	PAGE 5 NC LENGTH EXCEPTIONS	RUN NUMBER
GND 26		A06C2		1-21 *					1				2-1/8	47
GND 26		A06T1		1-22 *					2				1-5/8	47
GND 26		R06C2		1-23 *			025-9		1				0-4/8	47
GND 26		R06C1		1-24 *			025-9		2				0-4/8	47
GND 26		R06E1		1-25 *			025-9		1				0-5/8	47
GND 26		R06T1		1-26 *			025-9		2				1-4/8	47
GND 26		R06T1		1-27 *			025-9		1				0-1/8	47
GND 26		R06S1		1-28 *			025-9							47
GND 26				1									7-0/8	47
GND 27		A07R2		1-21 *					1				0-1/8	48
GND 27		A07C2		1-22 *					2				1-5/8	48
GND 27		A07N1		1-23 *					1				0-1/8	48
GND 27		A07P1		1-24 *					2				0-1/8	48
GND 27		A07R1		1-25 *					1				0-1/8	48
GND 27		A07S1		1-26 *					2				0-1/8	48
GND 27		A07T1		1-27 *					1				0-4/8	48
GND 27		A07V1		1-28 *					2				1-3/8	48
GND 27		R07R2		1-29 *					1				0-1/8	48
GND 27		R07C2		1-30 *					2				0-1/8	48
GND 27		R07D1		1-31 *					1				0-1/8	48
GND 27		R07E1		1-32 *					2				1-7/8	48
GND 27		R07T1		1-33 *					1				0-4/8	48
GND 27		R07V2		1-34 *										48
GND 27				1									6-7/8	48
GND 28		A08R2		1-31 *					1				0-1/8	49
GND 28		A08C2		1-32 *					2				1-5/8	49
GND 28		A08N1		1-33 *					1				0-1/8	49
GND 28		A08P1		1-34 *					2				0-1/8	49
GND 28		A08R1		1-35 *					1				0-1/8	49
GND 28		A08S1		1-36 *					2				0-1/8	49
GND 28		A08T1		1-37 *					1				0-4/8	49
GND 28		A08V1		1-38 *					2				1-3/8	49
GND 28		R08R2		1-39 *					1				0-1/8	49
GND 28		R08C2		1-40 *					2				0-1/8	49
GND 28		R08D1		1-41 *					1				0-1/8	49
GND 28		R08E1		1-42 *					2				1-7/8	49
GND 28		R08T1		1-43 *					1				0-4/8	49
GND 28		R08V2		1-44 *										49
GND 28				1									6-7/8	49
GOOD STROBE	L	R02F1		1-21 *			025-5		1				1-1/8	50
GOOD STROBE	L	R03D1		1-22 *			025-5							50
GOOD STROBE	L			1									1-1/8	50
HEAD SELECT	L	A01P1		1-21 *			025-1		1				5-2/8	51
HEAD SELECT	L	R07M2		1-32 *			025-1		2				1	51
HEAD SELECT	L	R08M2		1-43 *			025-1							51
HEAD SELECT	L			1									6-2/8	51
HIGH DENSITY	L	A01P2		1-21 *			025-4		1				4-3/8	52
HIGH DENSITY	L	R07P2		1-22 *			025-4		2				1	52
HIGH DENSITY	L	R08P2		1-43 *			025-4							52
HIGH DENSITY	L			1									5-3/8	52

PK25.C RUN NAME	A/P	WPP2RR.V34(62)-1 PIN NAME	ORDER PIN	31-JUL-75 RAY - ORDER	Q	DRAW OPT	PV RG Y	X	Z	REMARKS	2-JUN-76	8:56 FLAG	PAGE 6 NC LENGTH EXCEPTIONS	RUN NUMBER
HOMF	L	A04R1		1-21 *			025-7		2				2-1/8	53
HOMF	L	R03R1		1-22 *			025-7		1				2-3/8	53
HOMF	L	R06F1		1-23 *			025-7							53
HOMF	L			1									4-4/8	53
INDEX PULSE	L	A07R2		1-21 *			025-3		1				1-4/8	54
INDEX PULSE	L	A04J1		1-22 *			025-3							54
INDEX PULSE	L			1									1-4/8	54
INDEX/SECTOR	L	R02D1		1-21 *			025-5		1				1-7/8	55
INDEX/SECTOR	L	R04H2		1-22 *			025-5							55
INDEX/SECTOR	L			1									1-7/8	55
INNER LIMIT	H	A05R1		1-21 *			025-2		1				3-3/8	56
INNER LIMIT	H	A03U1		1-22 *			025-2		2				2-3/8	56
INNER LIMIT	H	R02J1		1-23 *			025-2							56
INNER LIMIT	H			1									5-6/8	56
INTERLOCK	L	A04H1		1-21 *			025-7		1				1-7/8	57
INTERLOCK	L	A06R1		1-22 *			025-7							57
INTERLOCK	L			1									1-7/8	57
LIMIT	H	A05K1		1-21 *			025-9		1				3-3/8	58
LIMIT	H	R06H1		1-22 *			025-9							58
LIMIT	H			1									3-3/8	58
LOAD HEADS	L	R03C1		1-21 *			025-6		1				1	59
LOAD HEADS	L	R04C1		1-22 *			025-6							59
LOAD HEADS	L			1									1-0/8	59
LOAD IND	H	A04T1		1-21 *			025-8		1				1-7/8	60
LOAD IND	H	A06A1		1-22 *			025-8							60
LOAD IND	H			1									1-7/8	60
LOAD SW	L	A06K1		1-21 *			025-7		1				3-3/8	61
LOAD SW	L	R04D1		1-22 *			025-7							61
LOAD SW	L			1									3-3/8	61
MOVE	L	A03L1		1-21 *			025-2		1				3-1/8	62
MOVE	L	R02P1		1-22 *			025-2							62
MOVE	L			1									4-1/8	62
NO PROTECT	L	A01N2		1-21 *			025-1		1				3-5/8	63
NO PROTECT	L	R06H1		1-22 *			025-1							63
NO PROTECT	L			1									3-5/8	63
ODD DRIVE	L	A02J2		1-21 *					1				3-3/8	64
ODD DRIVE	L	R03F2		1-22 *										64
ODD DRIVE	L			1									3-3/8	64
ON	L	A02A1		1-21 *			025-5		1				2-1/8	65
ON	L	A03M1		1-22 *			025-5							65
ON	L			1									2-1/8	65

