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# DRAWING DIRECTORY

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## DRAWING DIRECTORY

- MODULE UTILIZATION LIST
- READ/WRITE
- INDEX SECTOR
- CONTROL & INTERLOCK
- TRACK ADDRESS DIFFERENCE
- POSITION SERVO PREAMP
- SERVO POWER AMP CIRCUIT
- SERVO POWER AMP
- CONTROL PANEL CIRCUIT
- CONTROL PANEL
- RELAY BOARD CIRCUIT
- DECPACK MOTOR RELAYS
- CHASSIS WIRING
- ACCESSORY LIST
- POWER SUPPLY (H743)
- WIRE LIST
- INDEX SECTOR (UA)
- INDEX SECTOR (PL)
- CONTROL & INTERLOCK (UA)
- CONTROL & INTERLOCK (PL)

- B-DD-RK05F-0
- SHEET #1 ONLY
- C-MU-RK05F-0-2
- D-CS-G180-0-1
- D-CS-M7680-0-1
- D-CS-M7681-0-1
- D-CS-M7701-0-1
- D-CS-G938 YA-0-1
- D-CS-H604-0-1
- E-UA-H604-0-0
- D-CS-5409698-0-1
- E-IA-5409698-0-0
- D-CS-5409574-0-1
- E-IA-5409574-0-0
- D-BD-RK05-0-1
- A-PL-RK05F-0-17
- B-DD-H743-0
- K-WL-RK05-0-3
- D-UA-M7680-0-0
- B-PL-M7680-0-0
- D-UA-M7681-0-1
- B-PL-M7680-0-1

## MFG. PRINT SET

- MODULE UTILIZATION (PL)
- RK05F TESTER
- DECPACK ASSY
- DECPACK ASSY (PL)
- WIRED ASSY
- LINEAR POSITIONER ASSY
- LINEAR POSITIONER ASSY (PL)
- H743 POWER SUPPLY
- REVISION STATUS

- A-PL-RK05F-0-2
- B-DD-RK05F-T
- D-UA-RK05F-0-0
- A-PL-RK05F-0-0
- D-AD-7008696-0-0
- D-AD-7008702-0-0
- A-PL-7008702-0-0
- B-DD-H743-0
- A-WT-7008696-0

## UNIT VARIATIONS

VAR	TITLE
<del>RK05F-AA</del>	<del>DECPACK 115V 60 HZ</del>
<del>RK05F-AB</del>	<del>DECPACK 230V 60 HZ</del>
<del>RK05F-AC</del>	<del>DECPACK 115V 50 HZ</del>
<del>RK05F-AD</del>	<del>DECPACK 230V 50 HZ</del>
<del>RK05F-FA</del>	<del>RK05F-FA H967</del>
<del>RK05F-FB</del>	<del>RK05F-FB H967</del>
<del>RK05F-FC</del>	<del>RK05F-FC H967</del>
<del>RK05F-FD</del>	<del>RK05F-FD H967</del>
<del>RK05F-AA</del>	<del>DECPACK 16 SECTOR 115V 60 HZ</del>
<del>RK05F-AB</del>	<del>DECPACK 16 SECTOR 230V 60 HZ</del>
<del>RK05F-AC</del>	<del>DECPACK 16 SECTOR 115V 50 HZ</del>
<del>RK05F-AD</del>	<del>DECPACK 16 SECTOR 230V 50 HZ</del>
<del>RK05F-FA</del>	<del>DECPACK 12 SECTOR 115V 60 HZ</del>
<del>RK05F-FB</del>	<del>DECPACK 12 SECTOR 230V 60 HZ</del>
<del>RK05F-FC</del>	<del>DECPACK 12 SECTOR 115V 50 HZ</del>
<del>RK05F-FD</del>	<del>DECPACK 12 SECTOR 230V 50 HZ</del>
RK05F-AA	DECPACK, 16 SECTOR, 115V, 60 HZ
RK05F-AB	DECPACK, 16 SECTOR, 230V, 60 HZ
RK05F-AC	DECPACK, 16 SECTOR, 115V, 50 HZ
RK05F-AD	DECPACK, 16 SECTOR, 230V, 50 HZ
RK05F-FA	DECPACK, 12 SECTOR, 115V, 60 HZ
RK05F-FB	DECPACK, 12 SECTOR, 230V, 60 HZ
RK05F-FC	DECPACK, 12 SECTOR, 115V, 50 HZ
RK05F-FD	DECPACK, 12 SECTOR, 230V, 50 HZ

- 5

EN-01063-1A-16-0072-1(22)

REVISIONS	REV.	A	USED ON OPTION/MODEL	DRN.	DATE	TITLE	digital			
	CHANGE NO.	RK05F-1		CHK'D.	T. Guiller					
CHK	C		PROJ. ENG.	M. [Signature]	5/19/76	SIZE	CODE	NUMBER	REV	
			PROD.	J. [Signature]	5/26/76	B	DD	RK05F-0	A	
			SHEET 1 OF 5							

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NOTE:

TERMINATOR OR DISK BUS CABLE CONNECTOR MAY BE INTERCHANGED BETWEEN SLOTS 7 AND 8

	1	2	3	4	5	6	7	8
	G180	M7680	M7681	M7701	G938-YA	M983	M930 #	M929
USAGE	2	2	2	2	2	2	2	2
	READ/ WRITE	INDEX & SECTOR	CYLINDER ADDRESS DIFFERENCE	CONTROL & INTERLOCK	POSITION SERVO PREAMP	CHASSIS CONNECTOR	TERMINATOR	DISK BUS CABLE CONNECTOR
USAGE								

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

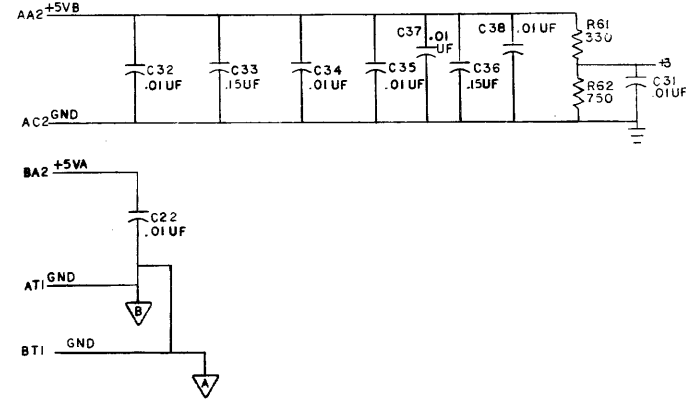
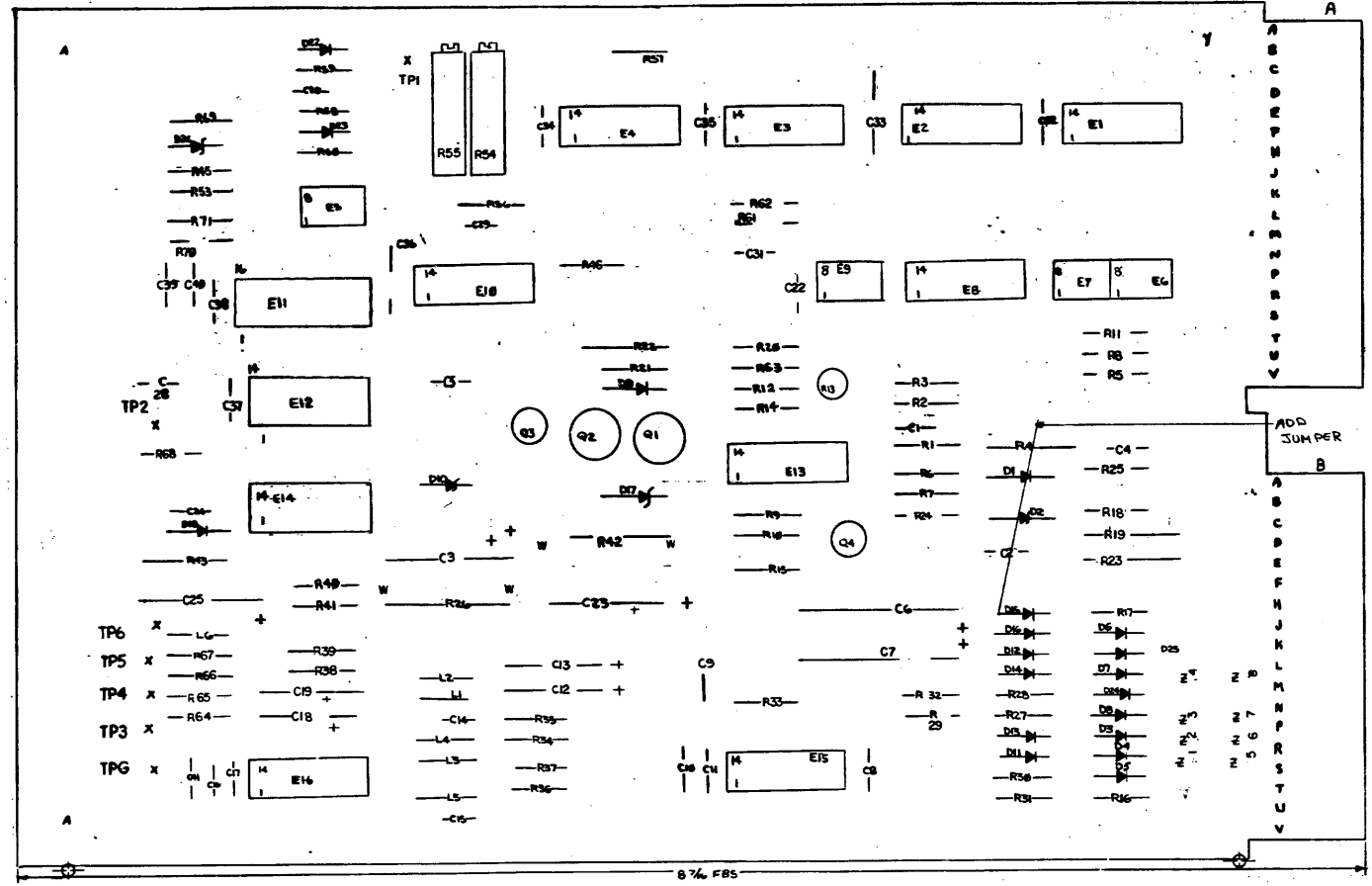
REVISIONS	REV.
CHANGE NO.	
CHK	

QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.																	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																			
THIRD ANGLE PROJECTION	ANGLES 30° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES																	
	SURFACE QUALITY IN MICROINCHES	MEDIUM <input type="checkbox"/>	<table border="1"> <tr> <th>OVER 0 TO 0.2</th> <th>OVER 0.2 TO 1.2</th> <th>OVER 1.2 TO 4.0</th> <th>OVER 4.0 TO 12.0</th> <th>OVER 12.0 TO 48.0</th> <th>OVER 48.0 TO 96.0</th> </tr> <tr> <td>±.004</td> <td>±.008</td> <td>±.012</td> <td>±.016</td> <td>±.024</td> <td>±.04</td> </tr> <tr> <td>PREFERRED <input checked="" type="checkbox"/></td> <td>±.012</td> <td>±.016</td> <td>±.024</td> <td>±.048</td> <td>±.1</td> </tr> </table>	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0	±.004	±.008	±.012	±.016	±.024	±.04	PREFERRED <input checked="" type="checkbox"/>	±.012	±.016	±.024	±.048
OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0															
±.004	±.008	±.012	±.016	±.024	±.04															
PREFERRED <input checked="" type="checkbox"/>	±.012	±.016	±.024	±.048	±.1															
REMOVE BURRS AND BREAK SHARP CORNERS	DRN <i>S. Walker</i> 4/16/76	FIRST USED ON RK05F																		
DO NOT SCALE DWG	CHK'D <i>T. Guillot</i> 10/27/76	TITLE MODULE UTILIZATION																		
MATERIAL	PROJ. ENG. <i>W. Allen</i> 5/2/76	NEXT HIGHER ASSY.																		
FINISH	PROD. <i>F. Finkel</i> 5/26/76	MATERIAL B-DD-RK05F-0	SIZE CODE C																	
		SCALE NONE	NUMBER MU RK05F-0-2																	
		SHEET OF	REV.																	

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**NOTES:**

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



DEC B640	1	8
DEC 75452	4	8
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

1	D26	DIODE IN748A (3.9V ZENER)	1100122	79
1	R69	RES. 180 1/4W 5%	1301322	78
2	R7,R10	RES. 100 1/4W 5%	1300229	77
1		NOISE SHIELD	5009893	76
2		HANDLE, FLIP CHIP-GREEN	9008337-01	75
7	TP6, 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 4/40X3/8	9006011-4	69
2		SCREW PAN HD #2-56X 5/16	9006002-1	68
2		KEP NUT 4/40	9006557	67

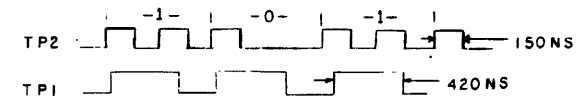
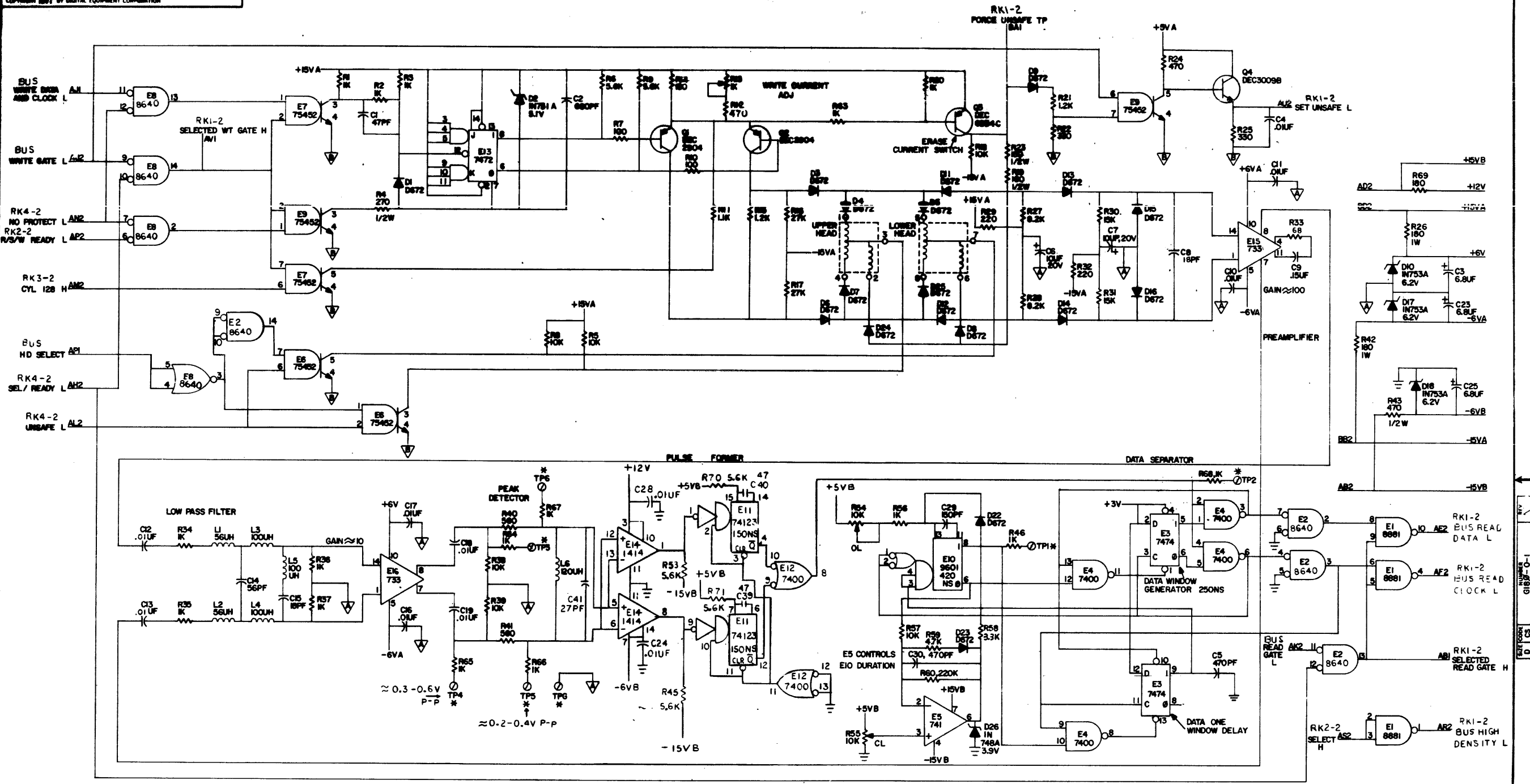
J. RINALDIS  
 GIB8-00010  
 K. FREY  
 GIB8-00008  
 GIB8-00009  
 N. FIELD  
 DALE JENSON  
 DALE JENSON  
 GIB8-00006  
 GIB8-00006  
 GIB8-00006

3	E6,E7,E9	I.C. DEC 75452	1910645	66
2	E15,16	I.C. DEC 733	1910644	65
1	E14	I.C. DEC 1414	1910337	64
1	E5	I.C. DEC 741	1910298	63
1	E1	I.C. DEC 8801	1909705	62
2	E2,E8	I.C. DEC 8640	191469	61
1	E10	I.C. DEC 9601	1909373	60
1	E13	I.C. DEC 7472	1905588	59
2	E4,E12	I.C. DEC 7400	1905575	58
1	E3	I.C. DEC 7474	1905547	57
1	L6	INDUCTOR 120UH	1610663	56
2	L1,L2	INDUCTOR 56UH	1610661	55
3	L3,L4,L5	INDUCTOR 100UH	1610662	54
1	Q3	TRANSISTOR DEC 6534C	1503409-02	53
1	Q4	TRANSISTOR DEC 3009B	1503100	52
2	Q1,Q2	TRANSISTOR 2N2904	1501742	51
1	R13	POT 1K 1/2W 20% 62PR	1309150-03	49
2	R54,55	POT 10K 3/4W 10% 78PR	1309143-10	48
2	R16,R17	RES. 27K 1/4W 5%	1305346	47
2	R27,R28	RES. 8.2K 1/4W 5%	1303179	46
1	R60	RES. 220K 1/4W 5%	1302092	45
1	R4	RES. 270 1/2W 5%	1300285	44
2	R40,R41	RES. 560 1/4W 5%	1301890	43
6	R6,9,45,53,70,71	RES. 5.6K 1/4W 5%	1301874	42
1	R11	RES. 1.1K 1/4W 5%	1301475	41
1	R58	RES. 3.3K 1/4W 5%	1300439	40
1	R62	RES. 750 1/4W 5%	1301401	39
2	R15,R21	RES. 1.2K 1/4W 5%	1301320	38
2	R30,R31	RES. 15K 1/4W 5%	1300496	37
6	R5,8,18,38,39,57	RES. 10K 1/4W 5%	1300479	36
1	R59	RES. 4.7K 1/4W 5%	1300447	35
1	E11	I.C. DEC. 74123	1910436	34
16	R1,R2,R3,R20,R34-37 R46,R56,R63-68	RES. 1K 1/4W 5%	1300365	33
2	R24,R12	RES. 470 1/4W 5%	1300316	31
1	R43	RES. 470 1/2W 5%	1300315	30
3	R22,R25,R61	RES. 330 1/4W 5%	1300295	29
2	R29,R32	RES. 220 1/4 5%	1300271	28
2	R26,R42	RES. 180 1W 5%	1300262	27
1	R19	RES. 180 1/2W 5%	1300260	26
1	R14	RES. 150 1/4W 5%	1300250	25
1	R23	RES. 150 1/2W 5%	1300249	24
1	R33	RES. 68 1/4W 5%	1300219	23
8	1-8	GOLD WIREWRAP PINS	9009217	22
18	DI,D3-9,DI1-16,D22-25	DIODE D672	1105275	21
1	D2	DIODE IN 751A (5.1V ZENER)	1105994	20
3	D10,D17,D18	DIODE IN 753A (6.1V ZENER)	1102421	18
13	C9,C33,C36	CAP. 15UF 50V 10% POLYCARBONATE	1010031	17
1	C15	CAP. 100PF 100V 5% D.M.	1008888	16
4	C12,C13,C18,C19	CAP. 0.1UF 50V AXIAL	1001610-00	15
14	C40,11,16,17,22,24,28,31 32,34,35,37,38	CAP. .01UF 100V 20% DISC	1001610-01	14
2	C6,C7	CAP 10UF 35V 20% S. TANT	1000069	13
3	C3,C23,C25	CAP 6.8UF 35V 20% S. TANT	1000067	12
1	C2	CAP 680PF 100V 5% D.M.	1000026	11
2	C5,C30	CAP 470PF 100V 5% D.M.	1000024	10
1	C29	CAP 150PF 100V 5% D.M.	1000019	9
1	C41	CAP 27PF 100V 5% D.M.	1001738	8
1	C14	CAP 56PF 100V 5% D.M.	1000012	7
3	C1,C39,C40	CAP 47PF 100V 5% D.M.	1000011	6
2	C8,C15	CAP 18 PF 100V 5% D.M.	1002608	5
1		ETCHED CIRCUIT BOARD	5009743	4
1		MODULE ECO HISTORY	B-MH-G180-0-6	3
1		ASSY/ DRILLING HOLE LAYOUT	E-AH-G180-0-5	2
1		X-Y COORDINATE HOLE LOCATION	K-CO-G180-0-4	1

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
<b>PARTS LIST</b>				
	ETCH BOARD REV.	L		
	DATE	BY	DATE	BY
	2N2904	2N2118A	IN746A	SAME
	DEC 3009B	2N3009	IN753A	SAME
	DEC 6534C	MPS6534	IN751A	SAME
	DEC NO.	EIA NO.	DEC NO.	EIA NO.
	DEC 6534C	MPS6534	D672	IN3653
<b>SEMICONDUCTOR CONVERSION CHART</b>				
DATE	BY	DATE	BY	DATE
12-22-71	R. DOUGLASS	12-22-71	NANCY MOORE	12-22-71
12-22-71	DALE JENSON	12-22-71	DALE JENSON	12-22-71
12-22-71	DALE JENSON	12-22-71	DALE JENSON	12-22-71
<b>SCALE</b>				
D CS GIB8-0-1 N				
1 OF 2				

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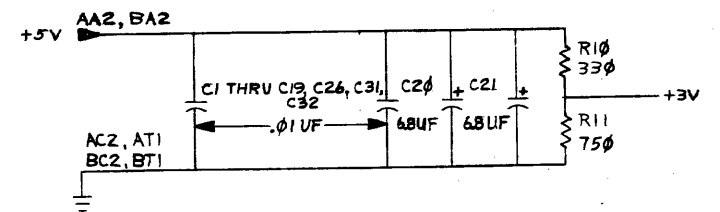
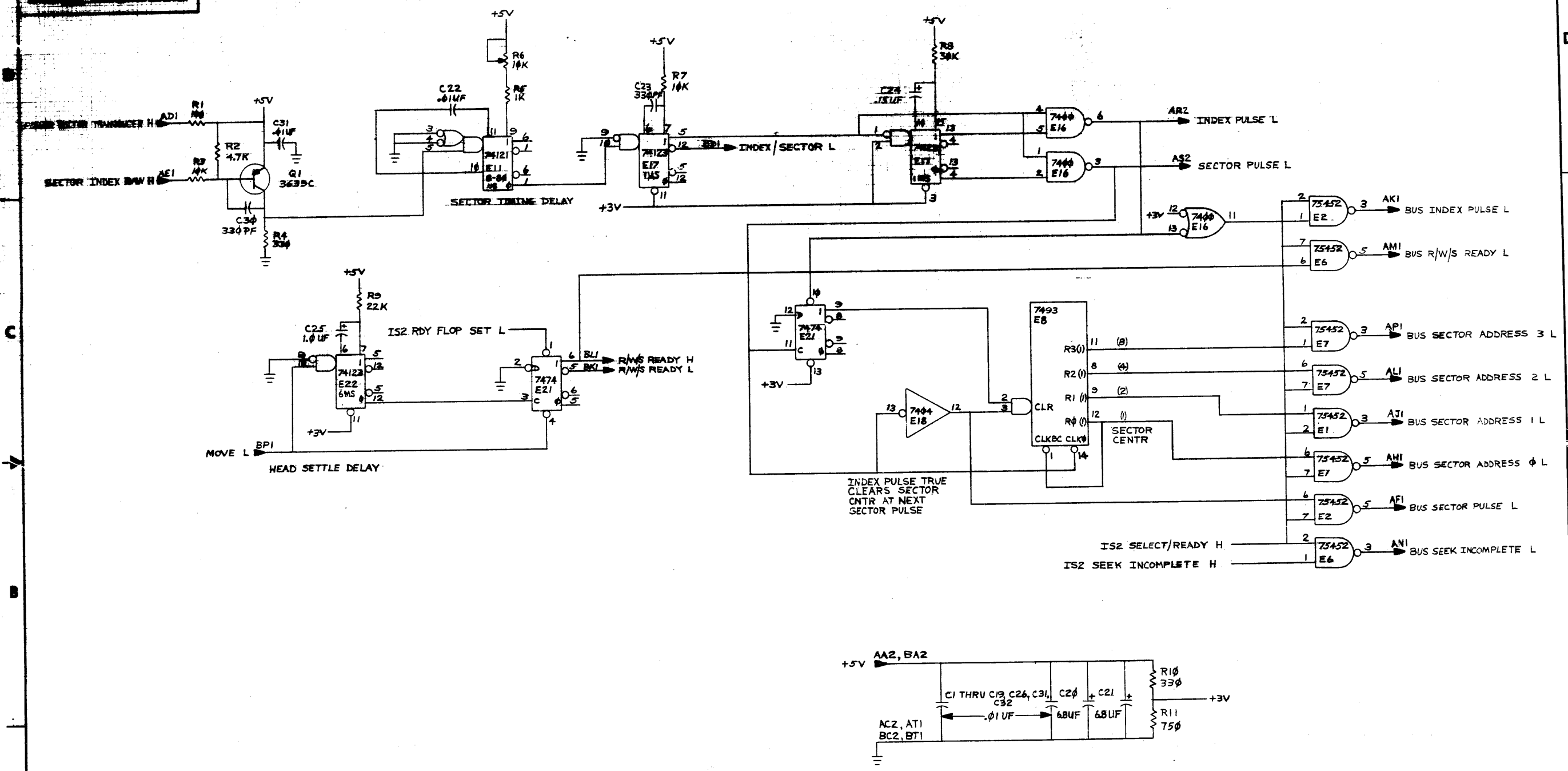
1-0- SD 0 3000 3/25



UNLESS OTHERWISE INDICATED:  
 \* INDICATES SWAGE LUG  
 ▽ ANALOG GND "A" BT1  
 ▽ ANALOG GND "B" AT1  
 ⊥ DIGITAL GND AC2  
 --- COMPONENTS NOT MOUNTED ON BOARD  
 ALL TIMES INDICATED ARE NOMINAL

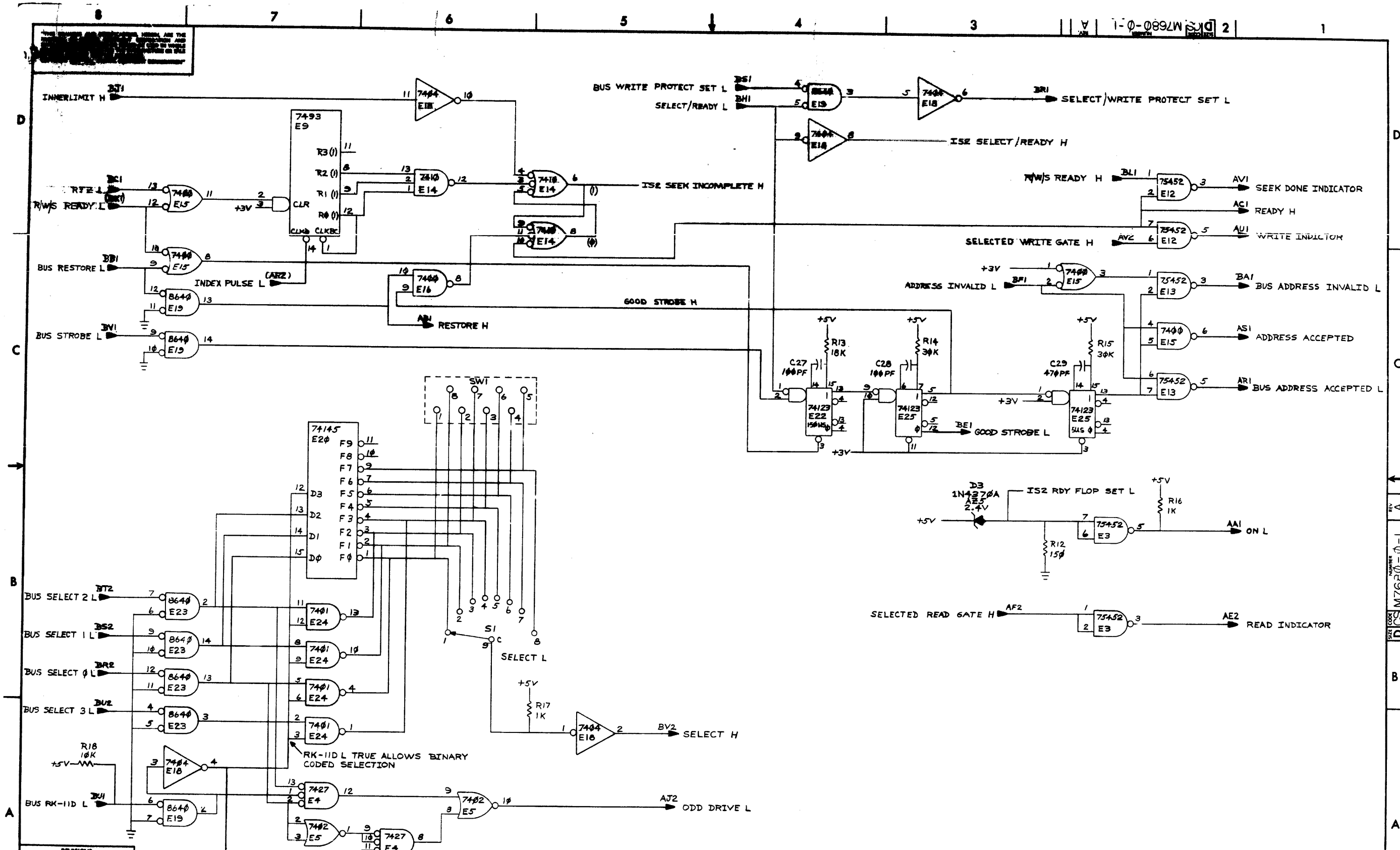
SLOT - 1

REVISIONS CHG. NO. REV.	DATE	TRANSISTOR & DIODE CONVERSION CHART		TITLE DEC PACK READ/WRITE RK1-2
	BY	DEC	EIA	
	DATE	DEC	DEC	BASE CODE
	DATE	DEC	DEC	NUMBER
	DATE	DEC	DEC	PRINTED CIRCUIT REV.



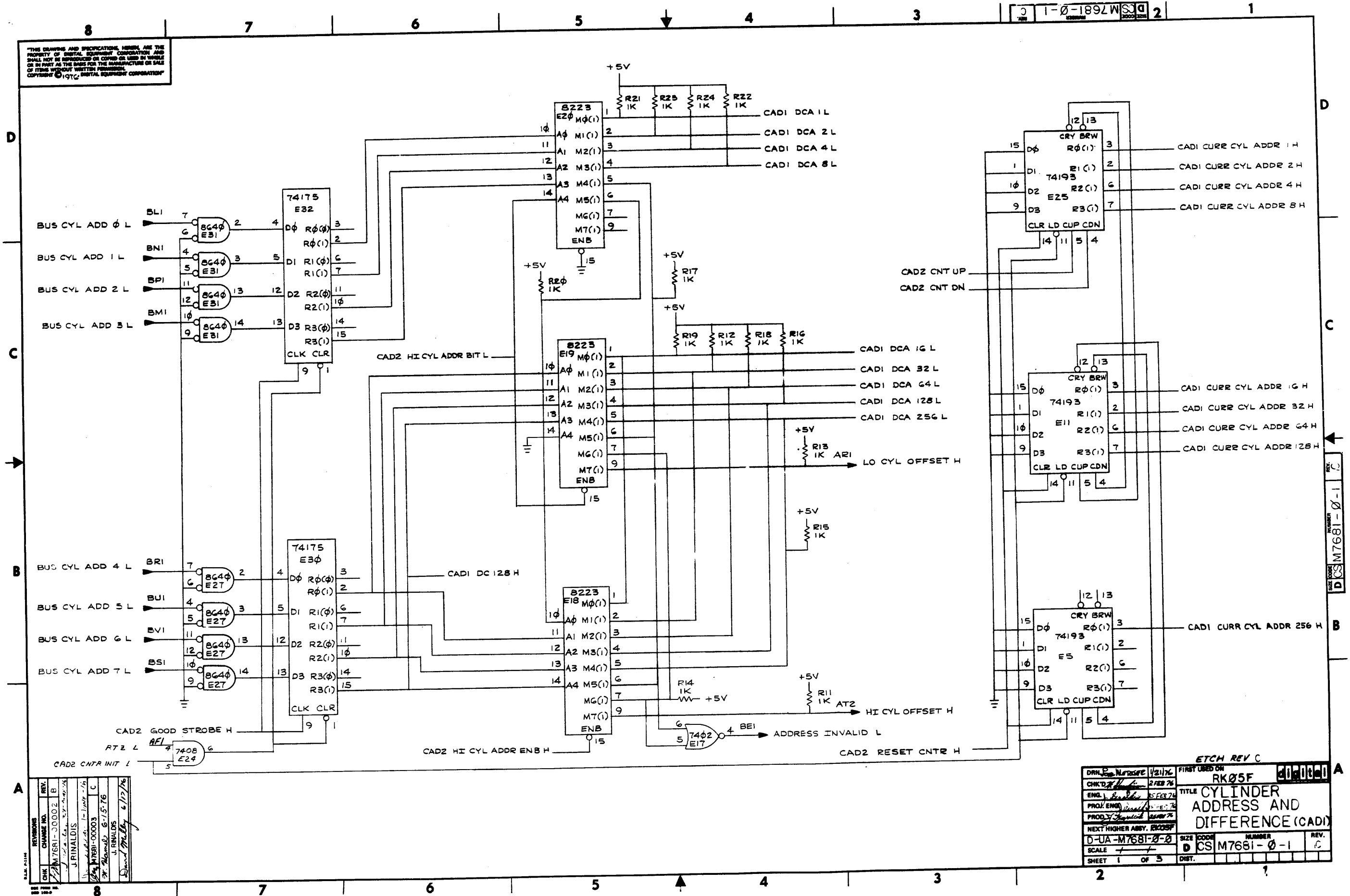
DRN. <i>[Signature]</i>	22 JAN 76	FIRST USED ON	<i>[Signature]</i>
CHK'D <i>[Signature]</i>	3 FEB 76	TITLE	DEC PAK INDEX AND SECTOR (ISI)
ENG. <i>[Signature]</i>	25 FEB 76	SIZE	D
PROJ. ENGR. <i>[Signature]</i>	25 FEB 76	CODE	CS
PROD. <i>[Signature]</i>	25 FEB 76	NUMBER	M7680-0-1
NEXT HIGHER ASSY.		REV.	A
D-LA-M7680-0-0		SCALE	
SHEET	1 OF 2	DIST.	

REV. A  
NUMBER M7680-0-1



REVISIONS		
CHK	CHANGE NO.	REV.

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REV.	CHG.	BY	DATE
1		J. RINALDIS	6/17/76
2		J. RINALDIS	6/17/76
3		J. RINALDIS	6/17/76
4		J. RINALDIS	6/17/76
5		J. RINALDIS	6/17/76
6		J. RINALDIS	6/17/76
7		J. RINALDIS	6/17/76
8		J. RINALDIS	6/17/76

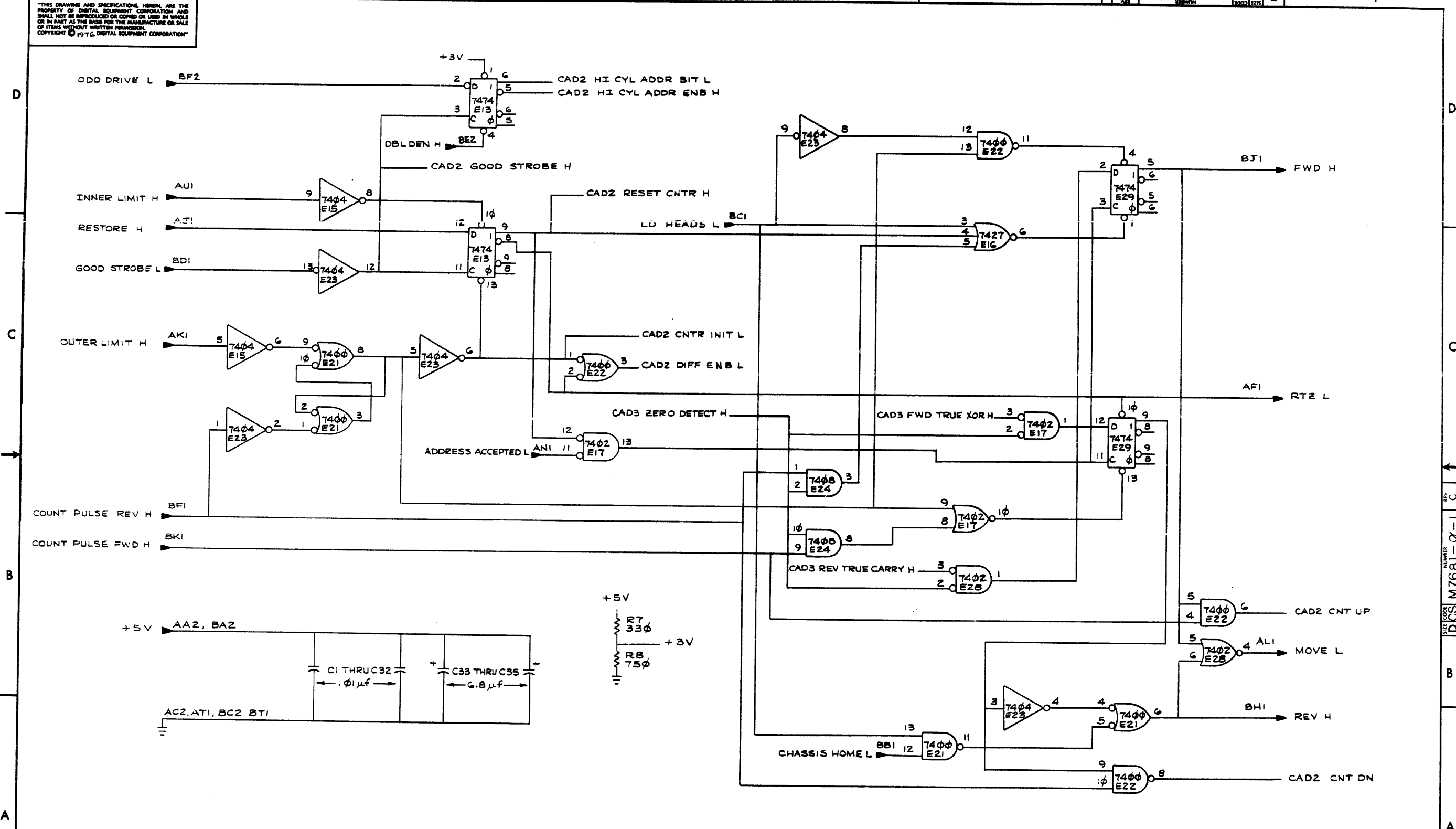
ETCH REV C

DRN. No. <i>100056</i>	DATE <i>1/21/76</i>	FIRST USED ON <i>digital</i>
CHK'D. <i>[Signature]</i>	DATE <i>2/FEB 76</i>	TITLE <b>CYLINDER ADDRESS AND DIFFERENCE (CADI)</b>
ENG. <i>[Signature]</i>	DATE <i>15/FEB 76</i>	SCALE <i>1" = 1"</i>
PROJ. ENGR. <i>[Signature]</i>	DATE <i>15/FEB 76</i>	SHEET <i>1</i> OF <i>3</i>
PROD. <i>[Signature]</i>	DATE <i>15/FEB 76</i>	DIST. <i>[Signature]</i>
NEXT HIGHER ASSY. <i>RK05F</i>	SIZE <i>D</i>	CODE <i>CS</i>
<i>D-UA-M7681-0-0</i>	NUMBER <i>M7681-0-1</i>	REV. <i>C</i>

DATE CODE NUMBER  
D CS M7681-0-1

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1-0-1892W DCS 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE CYLINDER ADDRESS AND DIFFERENCE (CAD2) SIZE CODE NUMBER REV. DCS M7681-0-1 C

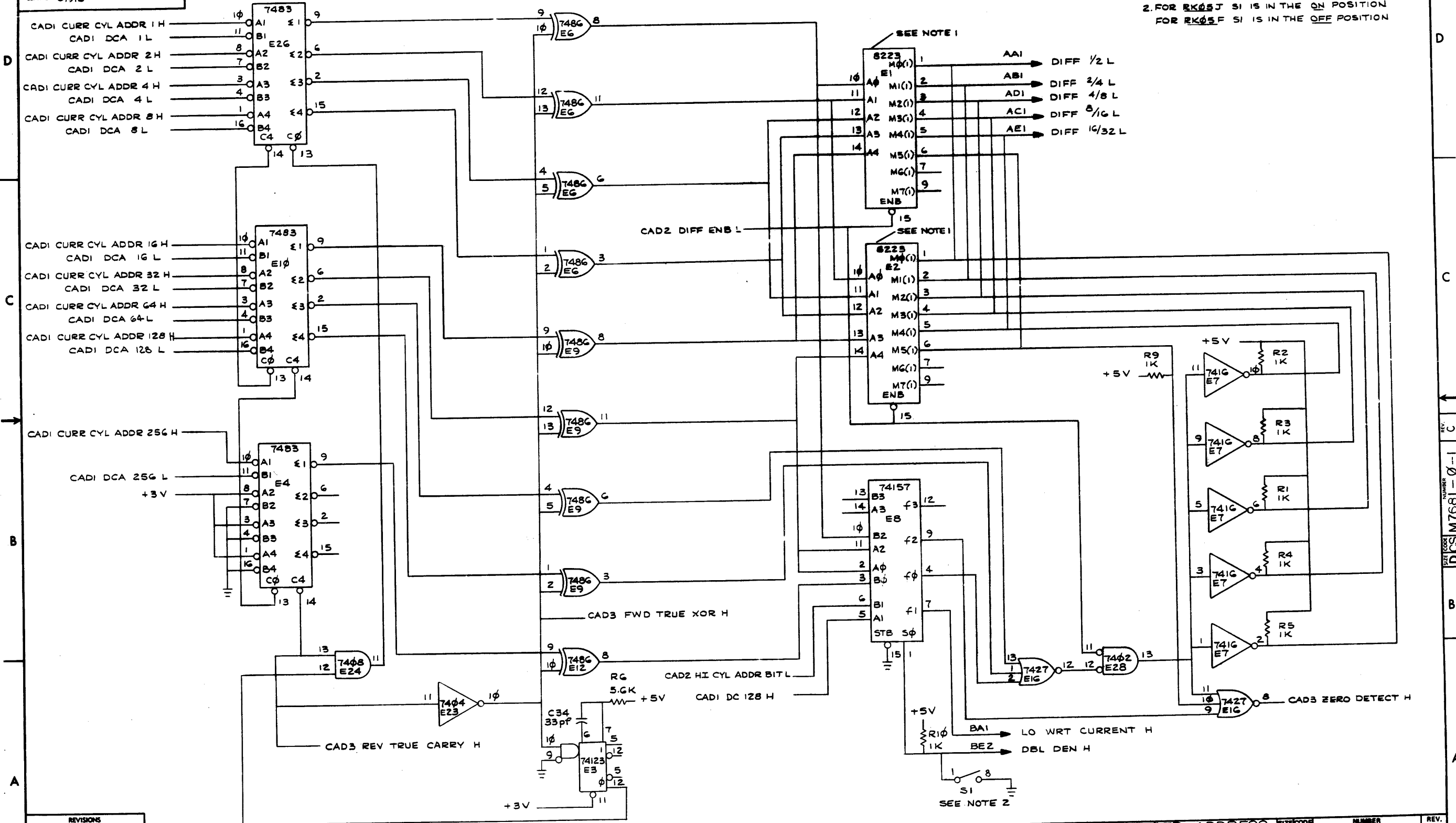
DEC FORM NO. 390 136

REV. C NUMBER M7681-0-1



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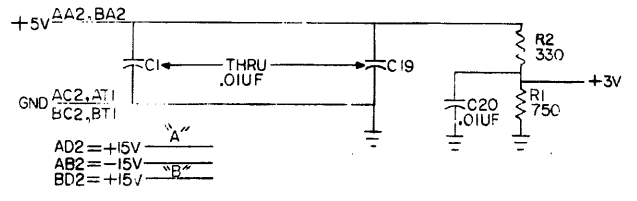
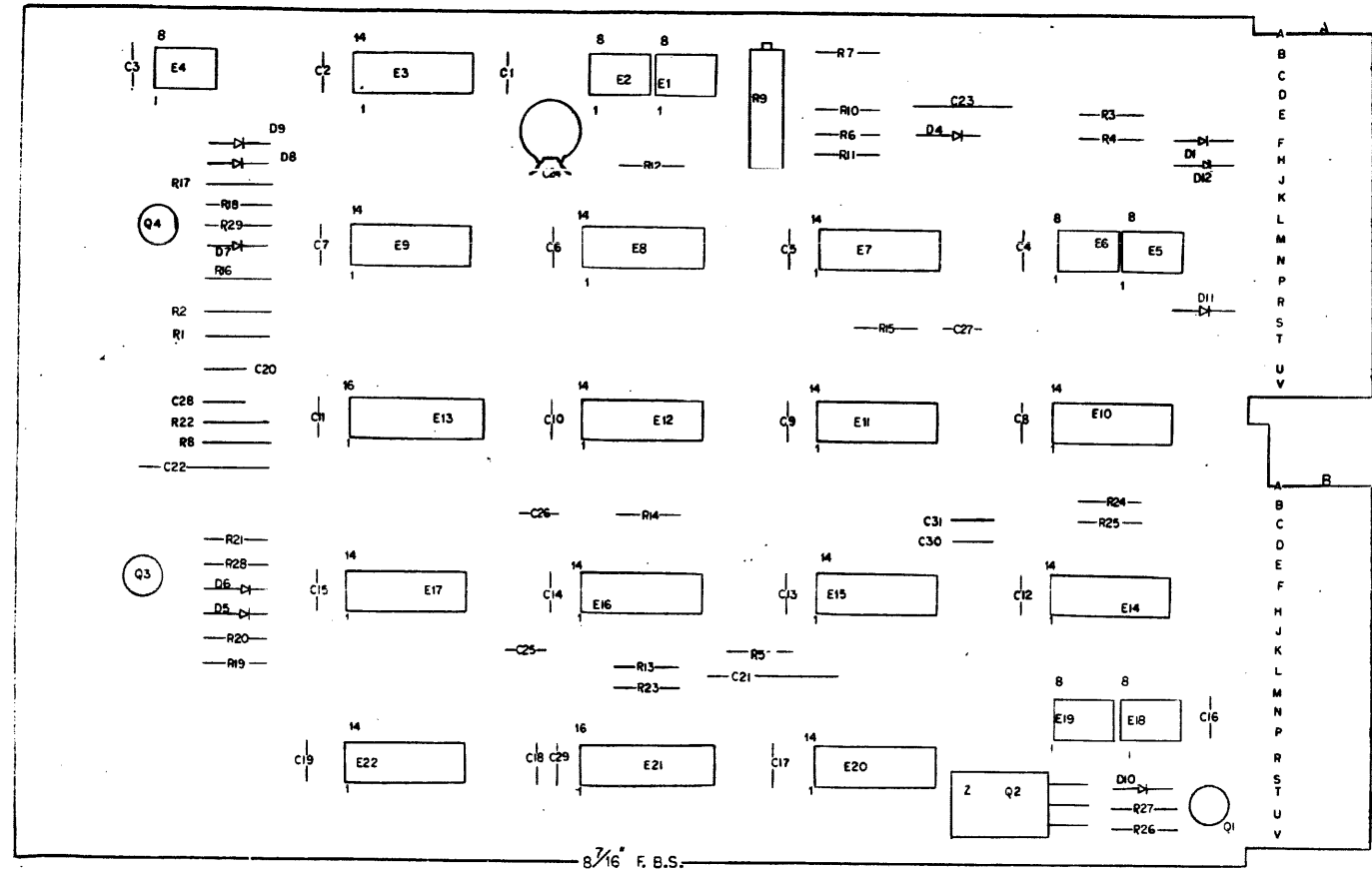
NOTE:  
1. FOR RK05J I.C. LOCATION E1 IS USED  
FOR RK05F I.C. LOCATION E2 IS USED  
2. FOR RK05J SI IS IN THE ON POSITION  
FOR RK05F SI IS IN THE OFF POSITION



REVISIONS table with columns for CHK, CHANGE NO., and REV.

Metadata table with columns for TITLE (CYLINDER ADDRESS AND DIFFERENCE (CAD3)), SIZE/CODE (DCS M7681-0-1), NUMBER, REV. (C), SCALE, SHEET (3 OF 3), and DIST.

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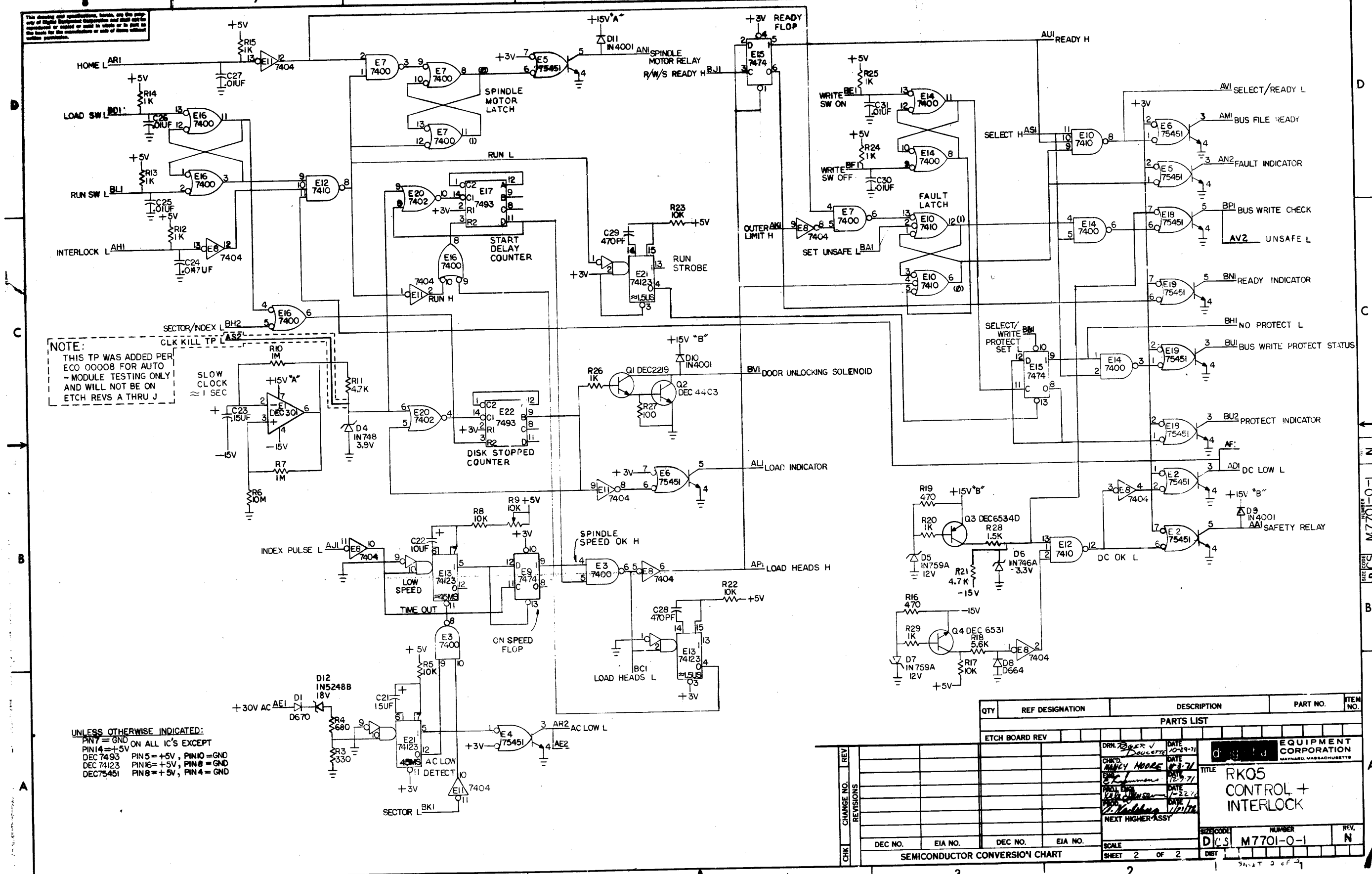


CHK	CHANGE NO.	REV	DESCRIPTION
		1	IN748 3.9V SAME DEC6534D MPS6534
		2	IN746A 3.2V SAME DEC44C3
		3	IN4C01 SAME IN759 S SAME
		4	D670 IN3653
		5	D664 IN3606
		6	DEC6531 MPS6531
		7	DEC2219 2N2219
		8	DEC NO. EIA NO. DEC NO. EIA NO.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	C24	CAP .047UF 16V DISC	1009678	50
1	D12	DIODE IN5248B 18V 5%	1110766	49
1		NOT REP #	9006557	48
1		SCREW 4-40 X 5/16	9006010	47
2		HANDLE, FLIP CHIP - MAGENTA	9006337-06	46
4		RYLET #38L-7	9006732	45
1	R1	I.C. DEC 307	1910282	44
6	R2, 4, 6, 5, 18, 19	I.C. DEC 75451	1910406	43
2	R21, 13	I.C. DEC 74123	1910436	42
2	R22, 17	I.C. DEC 7493	1909054	41
2	R9, 15	I.C. DEC 7474	1905567	40
2	R12, 10	I.C. DEC 7410	1905576	39
2	R11, 8	I.C. DEC 7404	1909686	38
1	R20	I.C. DEC 7402	1909004	37
4	R3, 7, 14, 14	I.C. DEC 7400	1905575	36
1	Q2	TRANSISTOR DEC 4403	1510171	35
1	Q3	TRANSISTOR DEC 6544D	1503499-00	34
1	Q1	TRANSISTOR DEC 2219	1501881	33
1	Q4	TRANSISTOR DEC 6511	1509138	32
1	R9	RES. 10K 1/4W 10% 76PR	1309143-10	31
1	R6	RES. 10W 1/2 5%	1302666	30
2	R7, 10	RES. 1M 1/2 5%	1309595	29
				28
				27
5	R17, 5, 22, 23, 8	RES. 10K 1/2 5%	1300479	26
1	R18	RES. 5.6K 1/2 5%	1301874	25
1	R11, R21	RES. 4.7K 1/2 5%	1300447	24
1	R4	RES. 600 1/2 5%	1304476	23
1	R28	RES. 1.5K 1/2 5%	1300391	22
9	R12, 13, 14, 29, 15, 20, 24, 25, 26	RES. 1K 1/2 5%	1300365	21
1	R1	RES. 750 1/2 5%	1301101	20
2	R16, 19	RES. 470 1/2 5%	1300316	19
2	R2, 3	RES. 330 1/2 5%	1300295	18
1	R27	RES. 100 1/2 5%	1300229	17
1		ORIPLOTS	1210244-0	16
2	D6, 7	DIODE 1N759S 12V	1110643	15
1	D4	DIODE 1N748 3.9V	1100121	14
1	D6	DIODE 1N746A 3.3V	1104860	13
3	D9, 10, 11	DIODE 1N4001	1102942	12
1	D1	DIODE D670	1102162	11
1	D2	DIODE D664	1100114	10
2	C28, 29	CAP. 470PF 160V 5% D.N.	1000024	9
1	Q23	CAP. .15UF 35V 20% TANT	1002180	8
1	Q22	CAP. 10UF 20V 10% TANT	1000913	7
1	Q21	CAP. 15UF 20V 10% TANT	1004812	6
25	C1 - 20, 25 - 27, 30, 31	CAP. .01UF 100V 20% DISC	1001610	5
1		ETCHED CIRCUIT BOARD	5009714	4
		MODULE ECO HISTORY	R-M7701-0-6	3
		ASSY/DRILLING HOLE LAYOUT	E-4H M7701-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-60-M7701-0-4	1
QTY	REP. DESIGNATION	DESCRIPTION	DESCR PTION	DEC PART NO.
		PARTS LIST		

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																																	
PARTS LIST																																					
ETCH BOARD REV K																																					
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SEMICONDUCTOR CONVERSION CHART																																					
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EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS																																					
TITLE DISK ENG. CONTROL + INTERLOCK																																					
<table border="1"> <tr> <td>SIZE CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>D125</td> <td>M7701-0-1</td> <td>N</td> </tr> </table>					SIZE CODE	NUMBER	REV.	D125	M7701-0-1	N																											
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D125	M7701-0-1	N																																			

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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

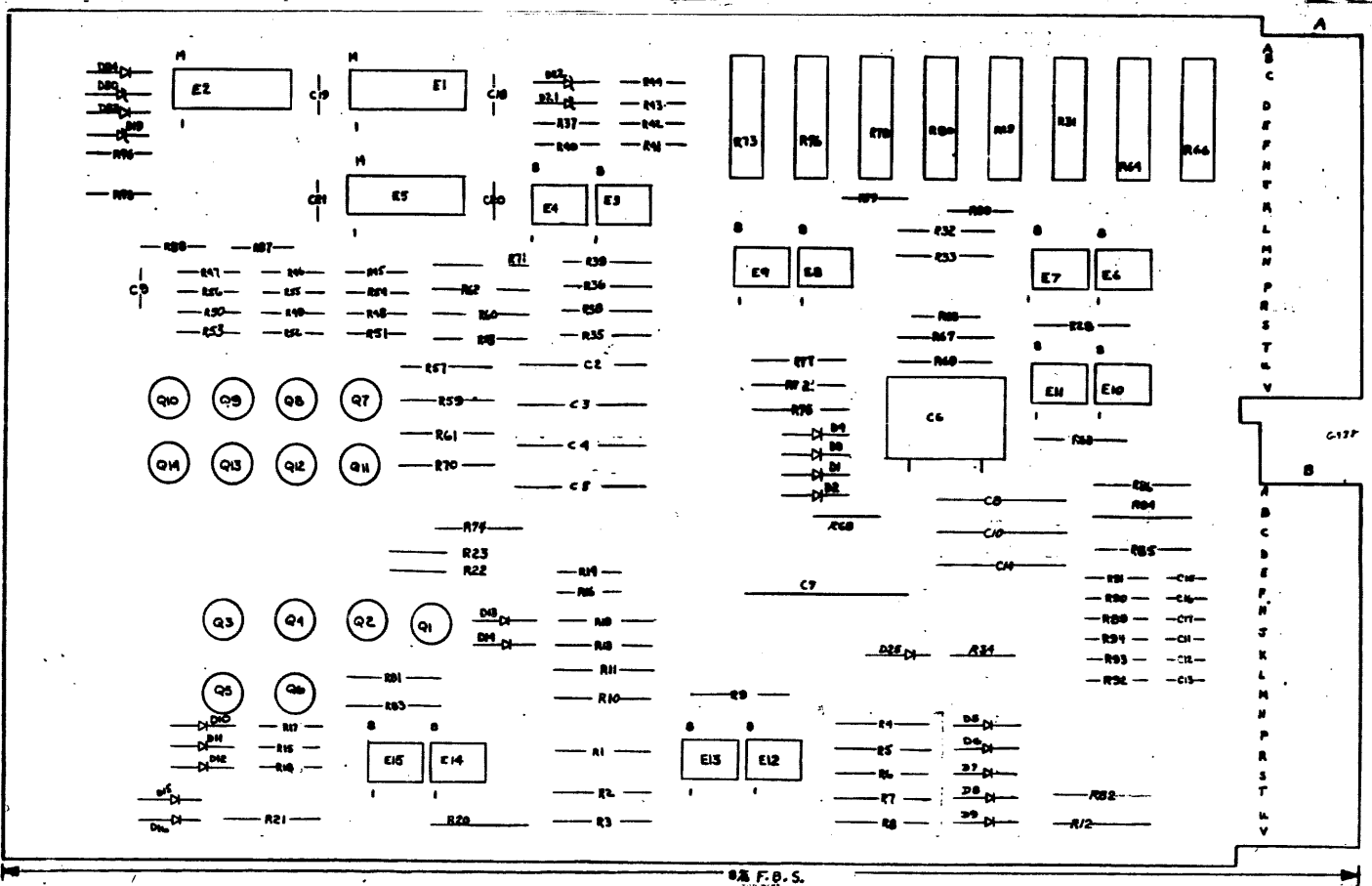
UNLESS OTHERWISE INDICATED:  
PIN 7 = GND ON ALL IC'S EXCEPT  
DEC 7493 PIN 5 = +5V, PIN 10 = GND  
DEC 74123 PIN 6 = +5V, PIN 8 = GND  
DEC 75451 PIN 9 = +5V, PIN 4 = GND

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
EQUIPMENT CORPORATION METHUEN, MASSACHUSETTS				
TITLE: RK05 CONTROL + INTERLOCK				
SCALE: DIST M7701-0-1 N				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SHEET 2 OF 2		SHEET 2 OF 2		

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NOTES:

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
8	Q1 THRU Q4	TRANSISTOR 2N5245	1509601	1
6	Q5 THRU Q10	TRANSISTOR DEC 6534D	1503409-00	2
1	E1	I.C. DEC 7274	1909686	3
1	E2	I.C. DEC 7274	1909987	4
2	E3, E4	I.C. DEC 301	1910282	5
1	E5	I.C. DEC 7274	1905575	6
10	E6 THRU E15	I.C. DEC 7274	1910298	7
4		WAFER #656-7	9006732	8
		HANDLES, FLIP CHIP GREEN	9008337-Q1	9
		GRIPLET	1210244-0	10
1	R22	RES 200K, 1/4W, 1%	1305336	11
1	R23	RES 137K, 1/4W, 1%	1305442	12
2	R13, R19	RES 909K, 1/4W, 1%	1304855	13
1	R74	RES 294K, 1/4W, 1%	1301981	14



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	D1	DIODE D662	1100113	10
1	D2	DIODE D664	1100114	11
2	D5, D16	DIODE IN75BA 10V	1100125	12
4	D7 THRU D22	DIODE IN746A	1104860	13
7	R1, R15, R17, R16, R19, R25, R23	RES. 15K 1/4W 5%	1300496	14
1	R2	RES. 13.3K 1/4W 1% MF	1312565	15
1	R3	RES. 9.09K 1/2W 1% MF	1304855	16
1	R4	RES. 39.8K 1/8W 1% MF	1303156	17
1	R5	RES. 68.1K 1/8W 1% MF	1305252	18
1	R6	RES. 348K 1/8W 1% MF	1303156	19
1	R7	RES. 21.5K 1/8W 1% MF	1303155	20
1	R8	RES. 11.5K 1/8W 1% MF	1309415	21
1	R9	RES. 21.5K 1/8W 1% MF	1303155	22
1	R10	RES. 5.62K 1/8W 1% MF	1305128	23
1	R11	RES. 11.5K 1/8W 1% MF	1309415	24
1	R12	RES. 2.74K 1/8W 1%	1304868	25
1	R13	RES. 5.62K 1/8W 1%	1305128	26
5	R14, R17, R18, R21, R22	RES. 10K 1/8W 1% MF	1303312	27
12	R19, R20, R23, R25, R26, R28, R29, R32, R33, R35, R36, R38, R39, R42, R43, R44, R45, R48, R51, R54, R68	RES. 19.6K 1/8W 1% MF	1309419	28
2	R12, R72	RES. 6.81K 1/8W 1% MF	1304870	29
2	R13, R19	RES. 464K 1/8W 1% MF	1304856	30
9	R4, R16, R43, R44, R45, R48, R51, R54, R68	RES. 1.5K 1/4W 5%	1300391	31
5	R18, R17, R58, R53, R56	RES. 3.9K 1/4W 5%	1300444	32
1	R20	RES. 200K 1/8W 1% MF	1305336	33
1	R21	RES. 3.83K 1/8W 1% MF	1309413	34
1	R22	RES. 100K 1/4W 5%	1302466	35
5	R23, R34, R41, R42, R65, R71	RES. 75K 1/4W 5%	1304841	36
5	R29, R64, R73, R76, R78	POT. 10K 3/4W 20% 76PR	1309413-10	37
3	R31, R66, R80	POT. 2K 3/4W 10% 76PR	1309413-08	38
3	R37, R40, R87	RES. 330 1/4W 5%	1300295	39
5	R58, R60, R62, R71, R82	RES. 511 1/8W 1% MF	1302411	40
1	R75	RES. 24.3K 1/8W 1% MF	1309418	41
2	R89, R85	RES. 10 1/2W 5%	1300168	42
1	R86	RES. 2.7 1/2W 10%	1309444	43
6	R87 THRU R119	RES. 22 1/4W 5%	1301969	44
1	R88	RES. 750 1/4W 5%	1301401	45
3	R28, R63, R77	RES. 1.96K 1/8W 1% MF	1304838	46
1	R74	RES. 1.47K 1/8W 1% MF	1305108	47
3	R34, R95, R96	RES. 10K 1/4W 5%	1300479	48

72741	SEE SHT 2
LM301	SEE SHT 2
IC TYPE	QND +5V
QND AND QV ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE	
IC PIN LOCATIONS	

REVISIONS:  
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QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		6534D	NONE	
		2N5245		
		D662	IN645	
		D664	IN3606	
		I746A	SAME	

ETCH BOARD REV. K

DATE: 12-8-71  
 DATE: 12-9-71  
 DATE: 12-30-71  
 DATE: 1-3-72

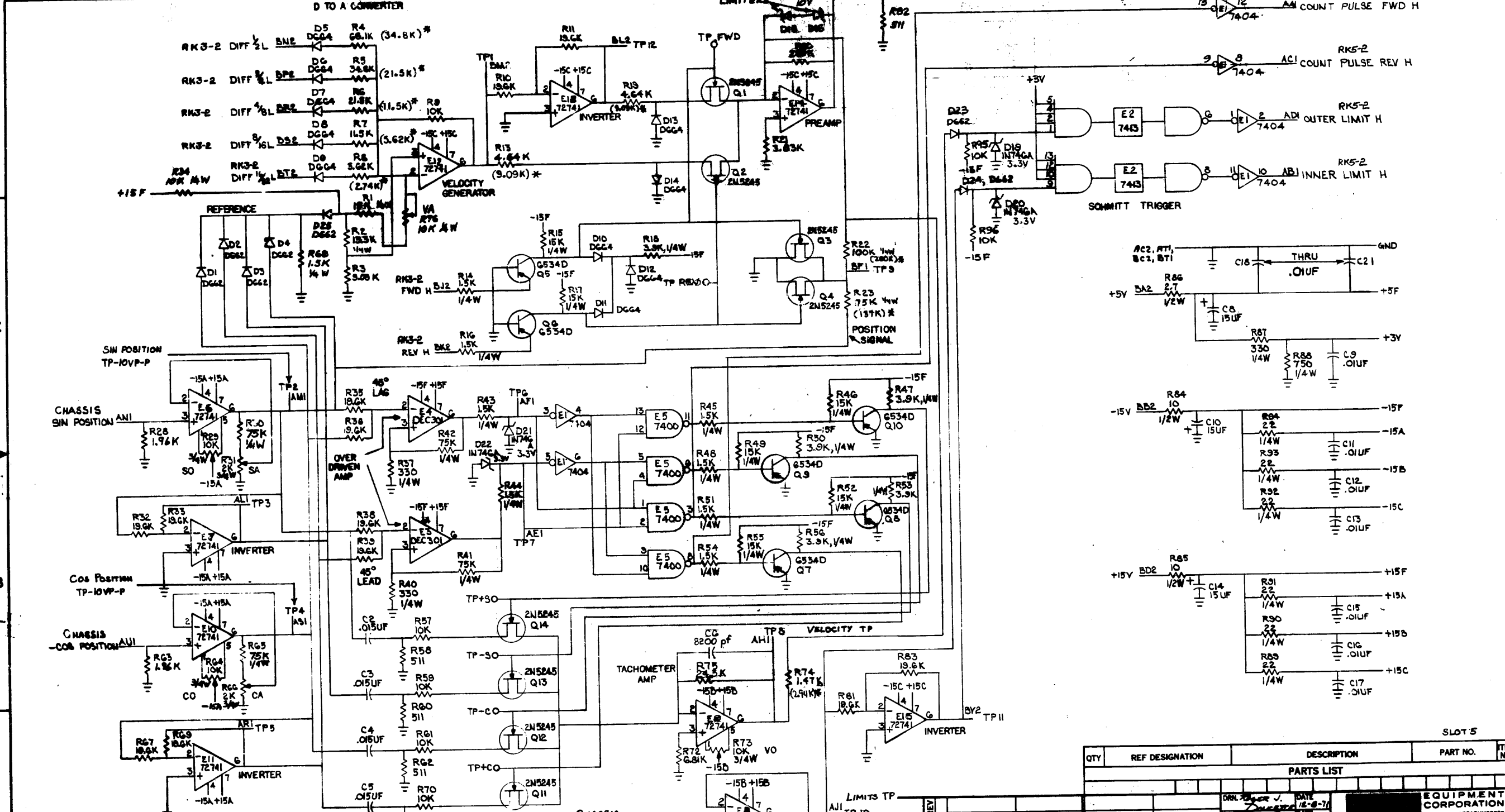
TITLE: DEC PACK HEAD POSITION SERVO PREAMP RKS-1

DCS G938-0-1

SCALE: 1/1

SHEET: 1 OF 2

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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 1/8W.

SAMPLING FET'S

ORDER	FWD	SEEK
1	Q13	Q11
2	Q11	Q14
3	Q14	Q12
4	Q12	Q13

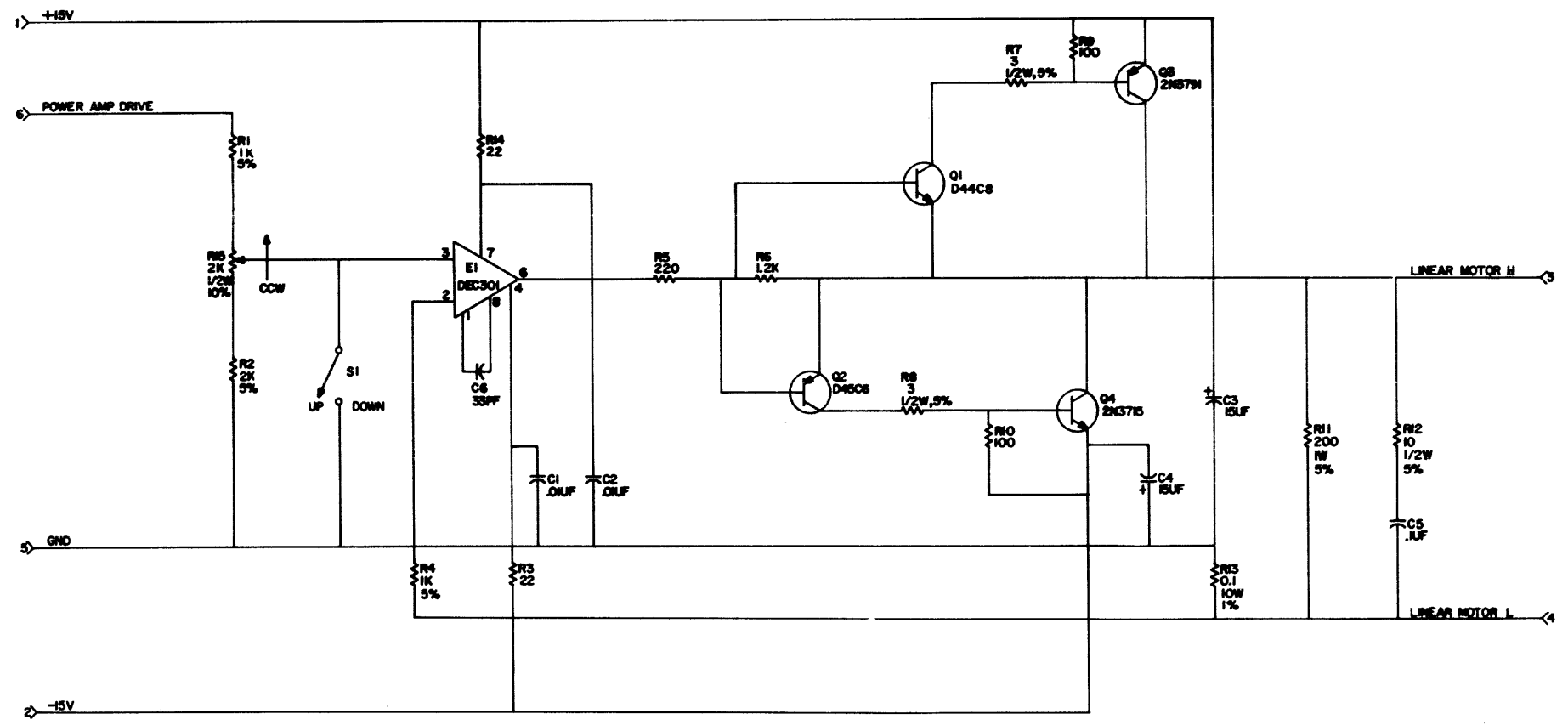
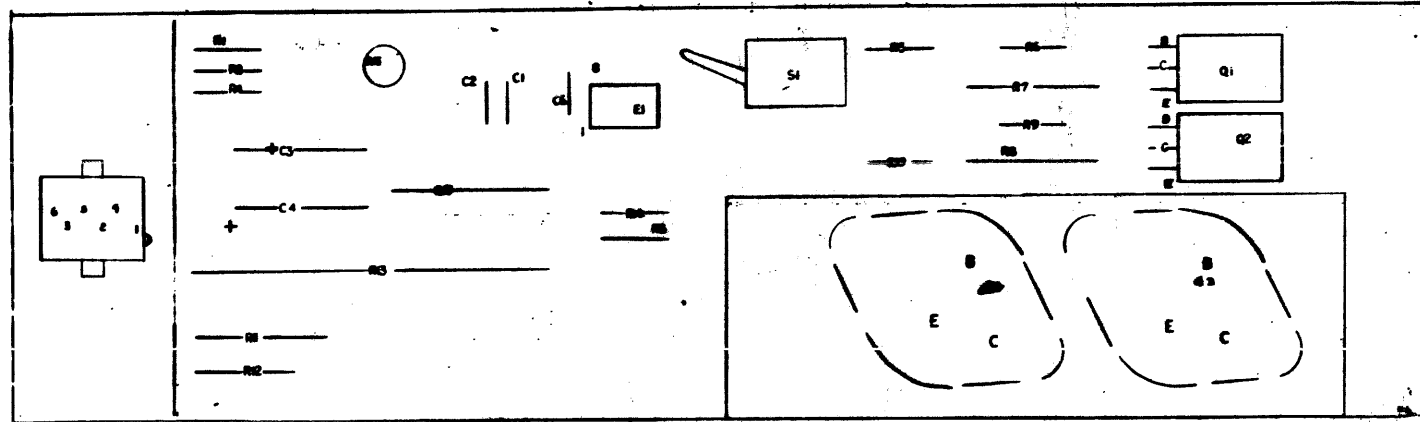
SLOT 5

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		
		EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
		TITLE: DEC PACK HEAD POSITION SERVO PREAMP RK5-2		
		DCS G938-0-1		
		SCALE: SHEET 2 OF 2		

SEMICONDUCTOR CONVERSION CHART

REV. NO. 1  
DATE 10-8-71  
BY J. J. J.

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

REV	DATE	BY	CHKD
1	8/10/71	S. J. Niles	
2	10-2-71		
3	10-2-71		
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6	10-2-71		
7	10-2-71		
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20	10-2-71		

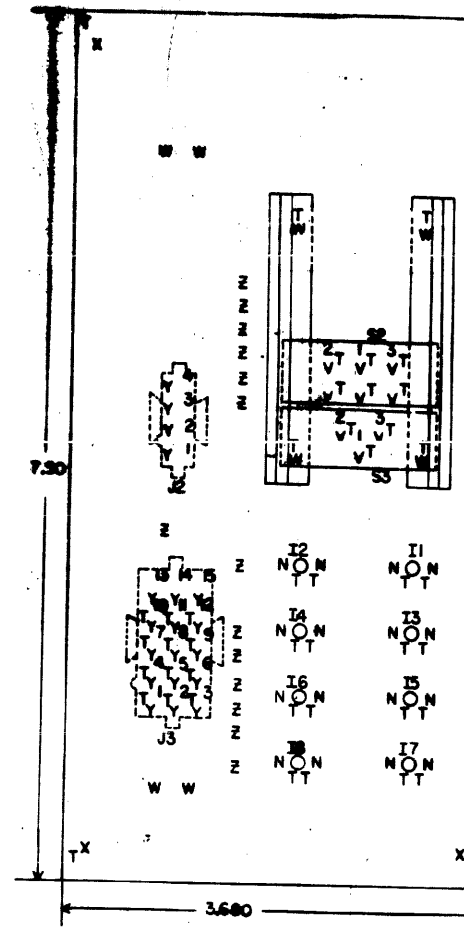
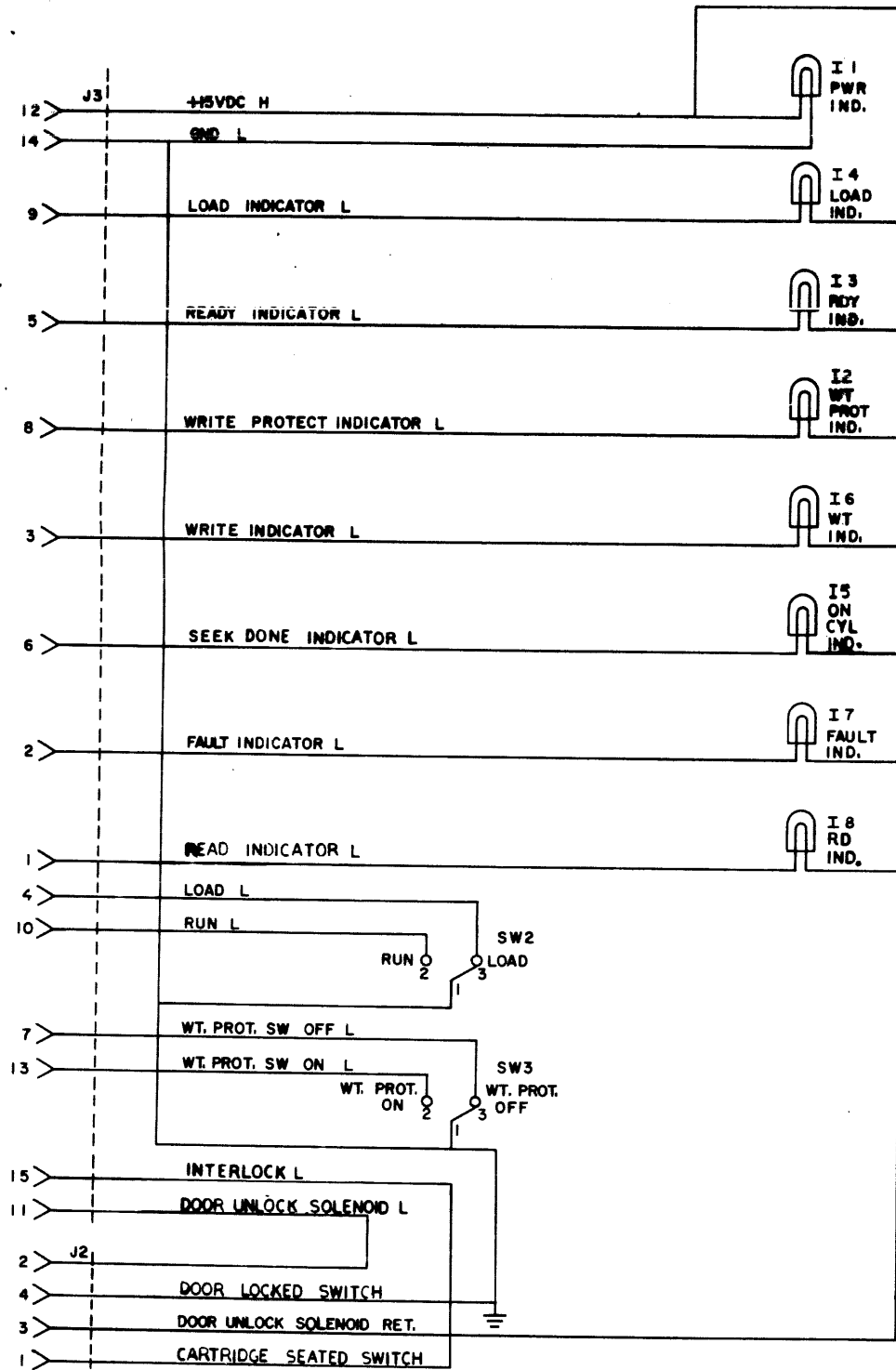
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

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

REV. 10/71  
D CS  
NUMBER  
H604-0-1  
K



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REV. E  
NUMBER 5409698-0-1  
SIZE CODE C CS

REVISIONS	CHK'D	NO.	REV.
1	J. COOPER	1	11-20-71
2	J. COOPER	2	11-23-71
3	J. COOPER	3	11-23-71
4	J. COOPER	4	11-23-71
5	J. COOPER	5	11-23-71
6	J. COOPER	6	11-23-71
7	J. COOPER	7	11-23-71
8	J. COOPER	8	11-23-71
9	J. COOPER	9	11-23-71
10	J. COOPER	10	11-23-71
11	J. COOPER	11	11-23-71
12	J. COOPER	12	11-23-71
13	J. COOPER	13	11-23-71
14	J. COOPER	14	11-23-71
15	J. COOPER	15	11-23-71
16	J. COOPER	16	11-23-71
17	J. COOPER	17	11-23-71
18	J. COOPER	18	11-23-71
19	J. COOPER	19	11-23-71
20	J. COOPER	20	11-23-71

DRN: S. COOPER  
CHK'D: S. COOPER  
ENG: S. COOPER  
PROD: S. COOPER

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

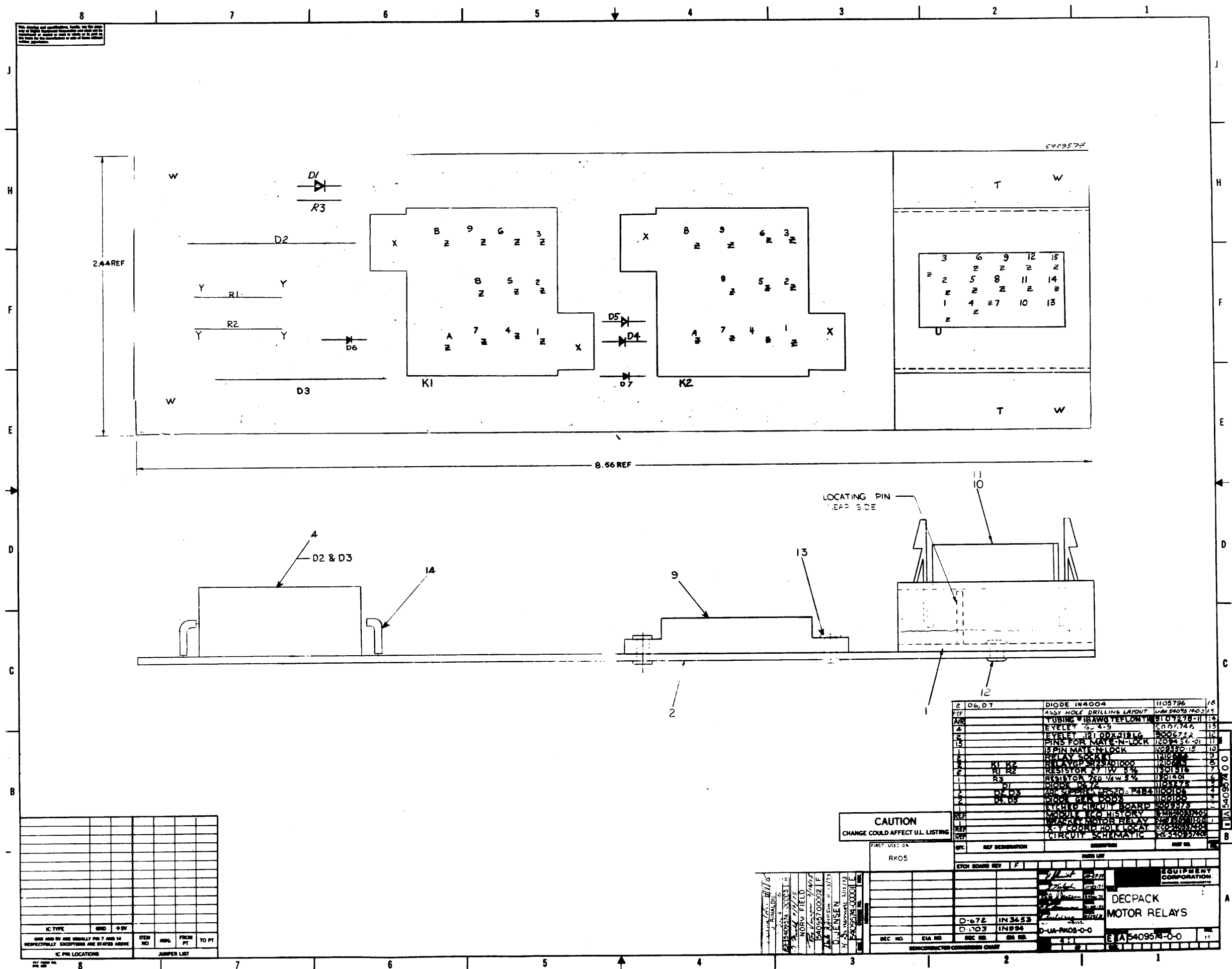
EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE: RK7-1  
RK05 CONTROL PANEL  
SIZE CODE: C CS  
NUMBER: 5409698-0-1  
REV: E  
PRINTED CIRCUIT REV: D









IC TYPE	GRID	Q-PT	ITEM NO	ANG	FROM PT	TO PT
IC PIN LOCATIONS						
JUMPER LIST						

**CAUTION**  
CHANGE COULD AFFECT U.L. LISTING

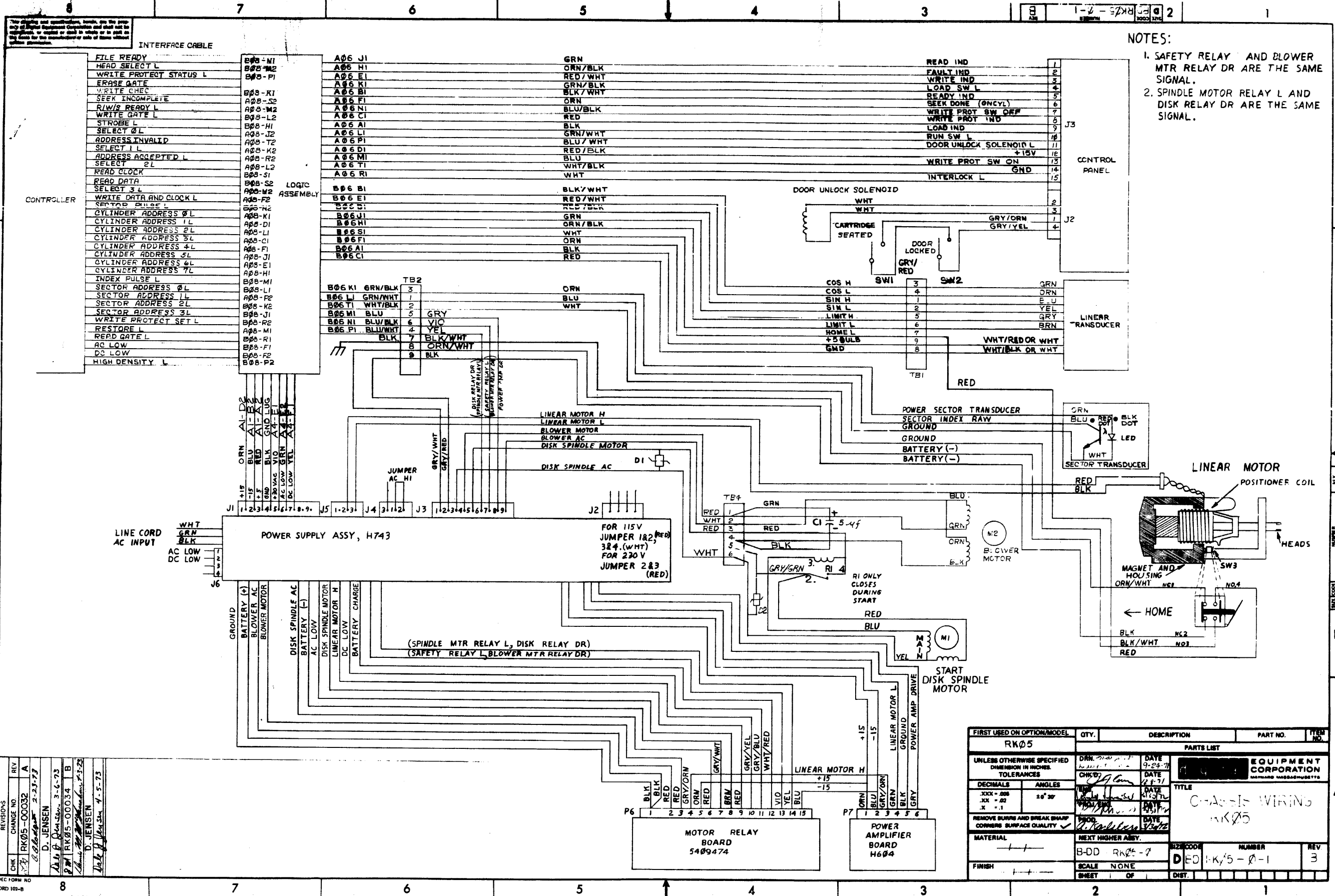
FIRST USE: CA  
RK05

QTY	REF DESIGNATION	DESCRIPTION	REV. NO.
2	D1, D7	DIODE 1N4004	1105796
REF		ASSY HOLE DRILLING LAYOUT	1105796-003
REF		TUBING TUBING TEFLONY	1105796-011
4		EYELET 6-4-9	1105796-015
2		TYREST 1/4 OX 2116	1105796-018
15		PINS FOR MATE-N-LOCK	1105796-021
1		15 PIN MATE-N-LOCK	1105796-025
2		RELAY SOCKET	1105796-029
2	K1, K2	RELAY 220AD1000	1105796-030
2	R1, R2	RESISTOR 27 1/4W 5%	1105796-031
1	R3	RESISTOR 150 1/4W 5%	1105796-032
1	D1	DIODE 1N4004	1105796-033
2	D2, D3	DIODE 1N4004	1105796-034
2	D4, D5	DIODE 1N4004	1105796-035
1		ETCHED CIRCUIT BOARD	1105796-036
REF		MIDDLE ECO HISTORY	1105796-037
REF		SPARK MOTOR RELAY	1105796-038
REF		ACTUATING HOLES TO CUT	1105796-039
REF		CIRCUIT SCHEMATIC	1105796-040

REV	DATE	BY	CHKD	DESCRIPTION
1	11/21/54	W. J. HANSEN		INITIAL DESIGN
2	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS
3	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS
4	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS
5	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS
6	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS
7	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS
8	11/21/54	W. J. HANSEN		REVISED TO ADD CONTACTS

ETCH BOARD REV	ETCH BOARD	ETCH BOARD	ETCH BOARD	ETCH BOARD	ETCH BOARD	ETCH BOARD	ETCH BOARD	ETCH BOARD	ETCH BOARD		
1	D-672	IN 3453									
2	D-003	IN 894									
DEC NO.			EIA NO.			SEC NO.			QTY		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		
D-672			D-003			D-003			D-003		

EQUIPMENT CORPORATION  
**DECPACK MOTOR RELAYS**  
EIA 5409574-0-0



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

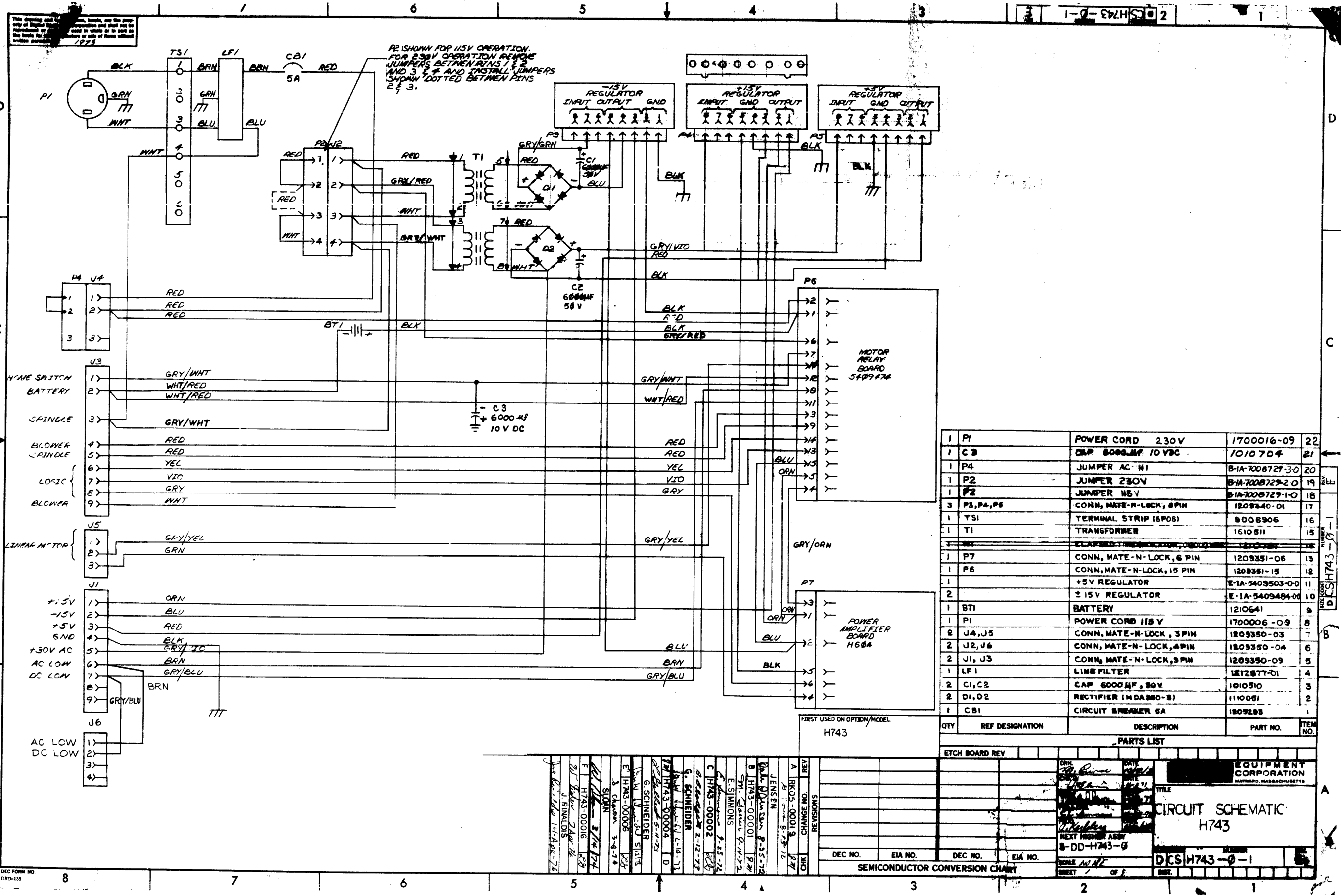
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE	EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	TITLE	
.XX = .02	30° 30'	DATE	C-AXIS WIRING	
.X = .1		DATE	RK05	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	FINISH	DATE	NEXT HIGHER ASSY.	
		DATE	B-DD - RK05-7	
MATERIAL	FINISH	DATE	SIZE CODE	NUMBER
		DATE	D E O	1-1
	SCALE NONE	DATE	DIST.	REV
		DATE		3

REV.	CHANGE NO.	DATE	BY	CHK.
A	00032	2-23-77	D. JENSEN	
B	00034	3-6-73	D. JENSEN	
C	00035	4-5-73	D. JENSEN	

DEC FORM NO. DRD 102-B







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.
1	PI	POWER CORD 230V	1700016-09	22
1	CB1	CAP 5000 MF 10 VDC	1010704	21
1	P4	JUMPER AC-NI	B-1A-7008729-30	20
1	P2	JUMPER 230V	B-1A-7008729-20	19
1	P2	JUMPER 115V	B-1A-7008729-10	18
3	P3, P4, P6	CONN, MATE-N-LOCK, 6 PIN	1209340-01	17
1	TS1	TERMINAL STRIP (6POS)	8006906	16
1	T1	TRANSFORMER	1610511	15
1	P7	CONN, MATE-N-LOCK, 6 PIN	1209351-06	13
1	P6	CONN, MATE-N-LOCK, 15 PIN	1209351-15	12
1		+5V REGULATOR	E-1A-5409503-00	11
2		± 15V REGULATOR	E-1A-5409484-00	10
1	BT1	BATTERY	1210641	9
1	PI	POWER CORD 115V	1700006-09	8
2	J4, J5	CONN, MATE-N-LOCK, 3 PIN	1209350-03	7
2	J2, J6	CONN, MATE-N-LOCK, 4 PIN	1209350-04	6
2	J1, J3	CONN, MATE-N-LOCK, 5 PIN	1209350-05	5
1	LF1	LINE FILTER	1212877-01	4
2	C1, C2	CAP 6000 MF, 50V	1010510	3
2	D1, D2	RECTIFIER (M DABBO-S)	1110081	2
1	CB1	CIRCUIT BREAKER 5A	1809293	1

FIRST USED ON OPTION/MODEL  
H743

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

EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

TITLE  
CIRCUIT SCHEMATIC  
H743

NEXT HIGHER ASSY  
B-DD-H743-0

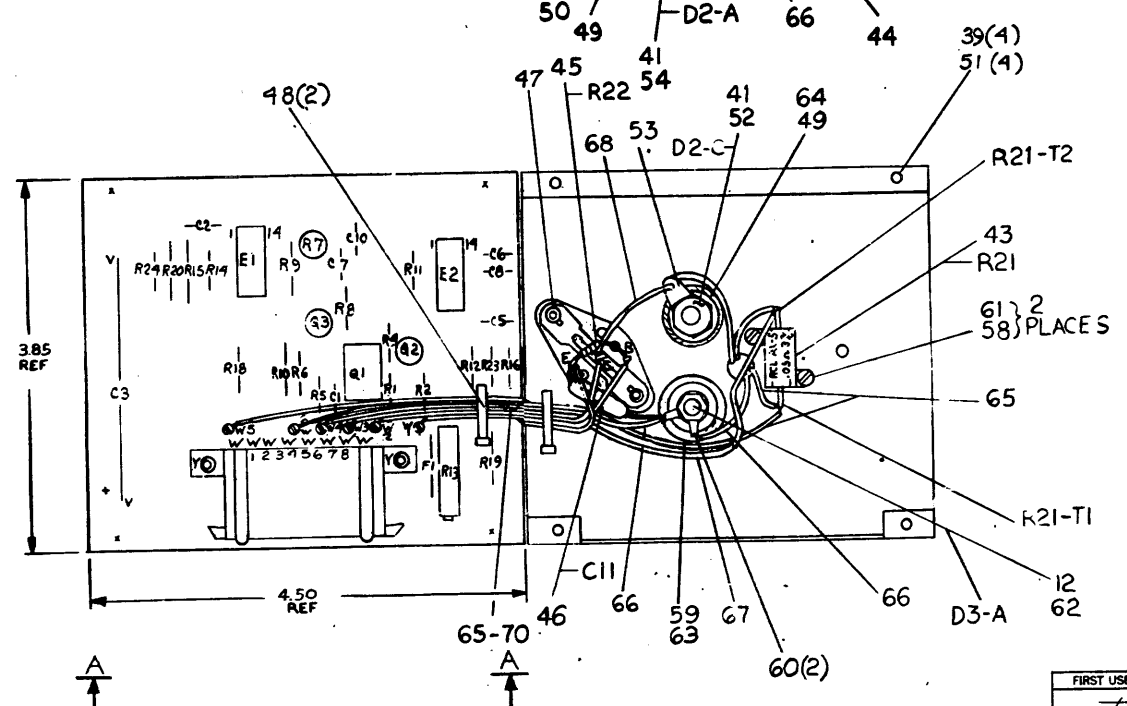
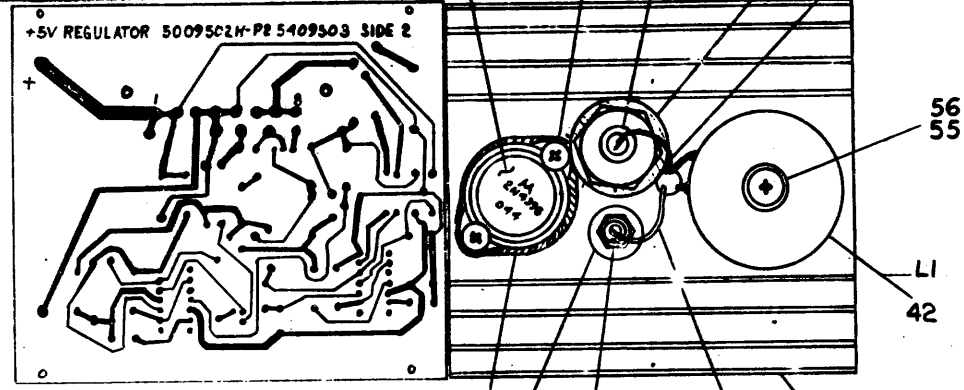
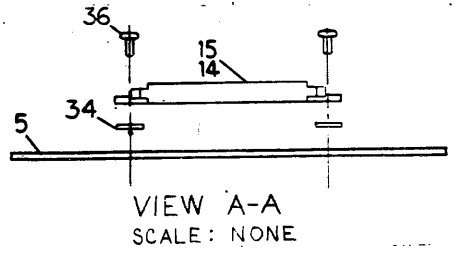
SCALE  
SHEET 2 OF 1

DCS H743-0-1

The drawing and specifications herein are the property of the United States Government and are loaned to you for your information and use only. It and its contents are not to be distributed outside your organization.

WIRE TABLE						EXTERNAL COMPONENTS			
ITEM NO.	DESCRIPTION	LENGTH	STRIP	STRIP	CONNECTIONS	ITEM NO.	LEADY DESCRIPTION	CONNECTIONS	POL.
NO.	AWG	COLOR	IN. ± 1/16	LENGTH-X	LENGTH-Y	FROM	TO	FROM	TO
42	—	BLK	2 3/4	—	1/2"	L1	CATHODE	Q5-E	Q5-B
48	—	BLK	2 3/4	—	1/2"	L1	R21-T2	Q5-E	Q5-B
68	18	VIO	2 3/4	1/2"	1/2"	Q5-C	CATHODE	Q5-E	Q5-B
66	1	GRN	4 3/4	1/2"	1/2"	D2 ANODE	D3 ANODE	Q5-E	Q5-B
65	1	GRN	4 3/4	1/2"	1/2"	D3 CATHODE	R21-T1	Q5-E	Q5-B
70	1	WHT	4 3/4	1/2"	1/2"	SPLIT LUG #1	Q5-E	Q5-E	Q5-B
69	1	GRY	5 3/4	1/2"	1/2"	SPLIT LUG #2	Q5-B	Q5-E	Q5-B
68	1	VIO	5 3/4	1/2"	1/2"	SPLIT LUG #3	Q5-C	Q5-E	Q5-B
67	1	BLU	8	1/2"	1/2"	SPLIT LUG #4	R21-T2	Q5-E	Q5-B
66	1	GRN	5 3/4	1/2"	1/2"	SPLIT LUG #6	D3 ANODE	Q5-E	Q5-B
65	18	YEL	8 3/4	1/2"	1/2"	SPLIT LUG #8	R21-T1	Q5-E	Q5-B

- 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.
  - CUT LEADS OF CAP. (C11) SO THERE IS 1/2" OF A LEAD LEFT ON BOTH ENDS.
  - 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	QND	+5V
QND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPT AS STATED ABOVE		
IC PIN LOCATIONS		

FIRST USED ON OPTION MODEL		QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
+						

ETCH BOARD REV		PARTS LIST	
1	H	DRN	G MARINI DATE 8-21-71
2		CHKD	J FLEMING DATE 8-27-71
3		ENG	P SVENDSON DATE 8-27-71
4		PROJ ENL	B SVENDSON DATE 8-27-71
5		PROD	P FAZIO DATE 8-27-71
6		NEXT HIGHER ASSY	
7		+	

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

SEMICONDUCTOR CONVERSION CHART	

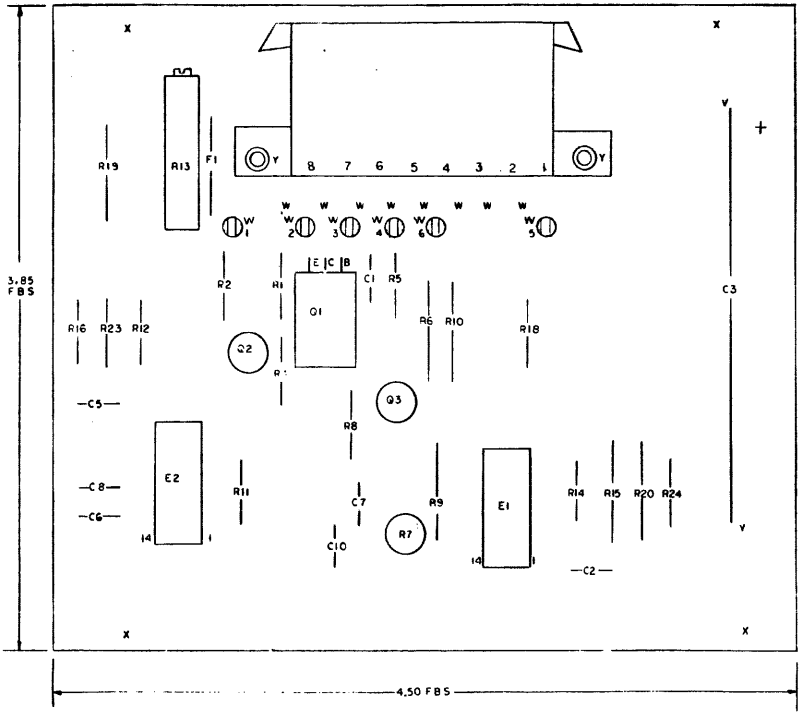
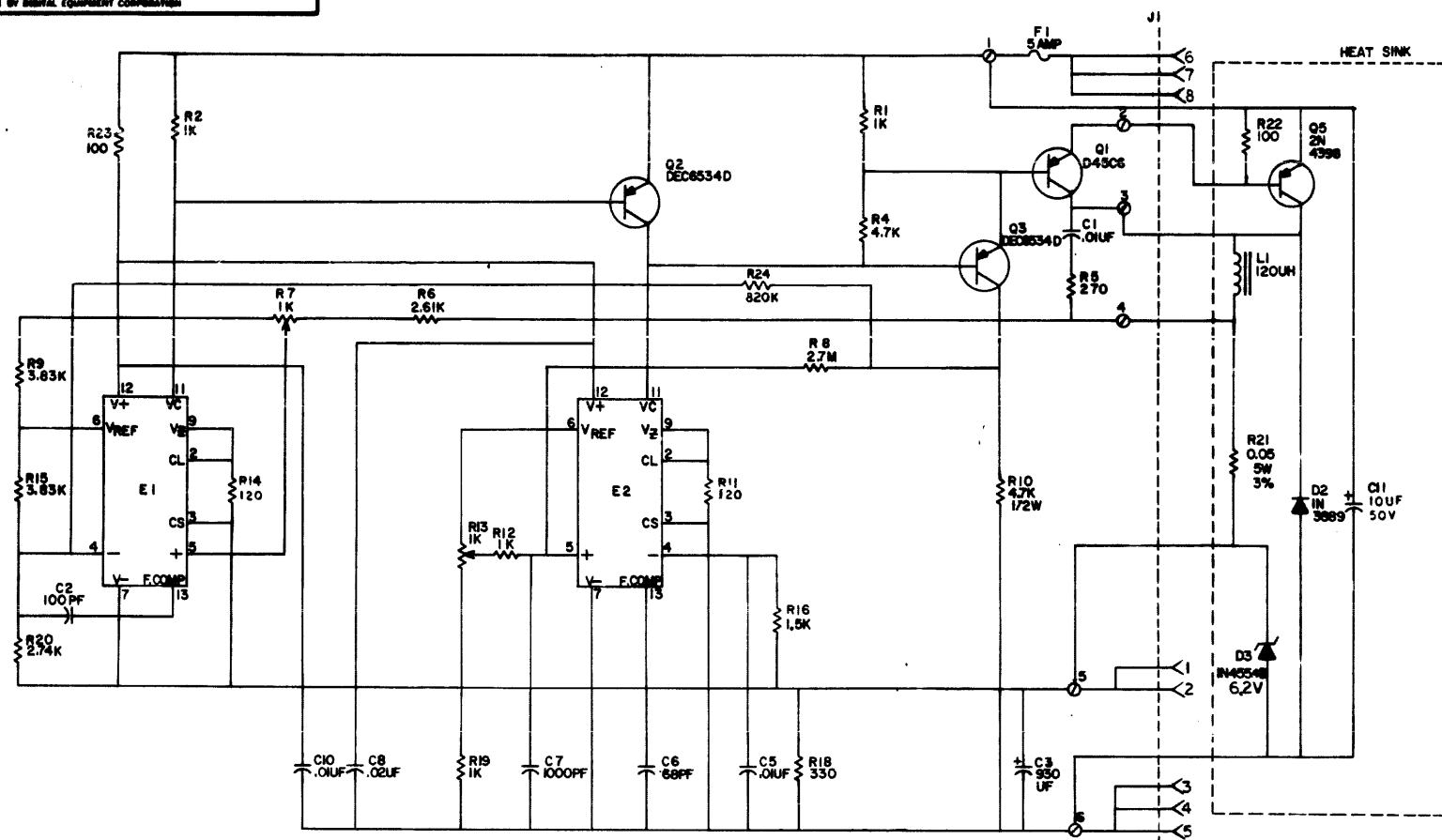
SCALE	NONE	SHEET	1 OF 1
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EQUIPMENT CORPORATION	
WATYARD, MASSACHUSETTS	
TITLE	
+ 5 VOLT POWER REGULATOR	
SIZE CODE	NUMBER
DIA 5409503-0-0	R



THIS SCHEMATIC IS PROVIDED ONLY FOR TEST AND REPAIR PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1971 BY MILITARY EQUIPMENT CORPORATION



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	WIRE #18AWG STRD (WHT.)	9107360-99	70	
1	WIRE #18AWG STRD (GRY.)	9107360-88	69	
1	WIRE #18AWG STRD (VIO.)	9107360-77	68	
1	WIRE #18AWG STRD (BLU.)	9107360-66	67	
1	WIRE #18AWG STRD (GRN.)	9107360-55	66	
1	WIRE #18AWG STRD (YEL.)	9107360-44	65	
1	3/16 FLAT WASHER	9006666	64	
2	THERMAL INSULATOR	9009678	63	
1	NUT, HEX 1/4 X 28	9008063	62	
2	WASHER, INT TOOTH LOCK #2	9006631	61	
2	SOLDER LUG	9006764	60	
1	1/4 FLAT WASHER	9006676	59	
2	SCR BINDING HD 2-56 X 3/16 SST	9006000-4	58	
2	SCR PHIL PAN HD 6-32 X 5/8 SST	9006025-1	57	
1	SCR PHIL TRUSS HD 10-32 X 1 SST	9006077-3	56	
1	WASHER INT TOOTH LOCK #10	9006635	55	
2	BUSHING	9008441	54	
1	SOLDER LUG	9008150	53	
1	NUT, HEX #10-32	9006564	52	
4	SCR PHL PAN HD #6-20 X 3/8 ST	9008407	51	
1	THERMAL INSULATOR	9008419	50	
2	THERMAL INSULATOR	9008424	49	
2	TIE WRAPS	9007031	48	
1	TRANSISTOR SOCKET	1210130	47	
1	C11	CAP 10UF 50V	1000070	46
2	R22, R23	RES 100 1/4W 5%	1300229	45
1	D3	DIODE IN4554B 6.2V	D-1A-5409503-0-44	44
1	R21	RES 0.05 5W 3%	1310507	43
1	L1	CHOKE 120UH	1610573	42
1	D2	DIODE IN3889	1110491	41
1	Q5	TRANSISTOR 2N4398	1505870	40
6	R11, R14	WASHER INT TOOTH # 6	9006633	39
2	R11, R14	RES 120 1/4W 5%	1300247	38
1	R16	RES 1.5K 1/4W 5%	1300391	37
2		EYELETS	9006732	36
6		SPLIT LUGS	9006735	35
2		WASHER NYLON	9006707	34
2	E1, E2	IC 723C D.I.P. REGULATOR	1910415	33
1	Q1	TRANSISTOR D4306 G.E.	1510414	32
A/R		THERMAL COMPOUND	9008268	31
2	Q2, Q3	TRANSISTOR DEC 6534D	1503409-00	30
1	R8	RES 2.7M 1/4W 5%	1309690	29
2	R9, R15	RES 3.83K 1/8W 1%	1309413	28
1	R7	RES 1K 1/2W 20%	1309150-3	27
1	R13	RES 1K 10W 76 PR	1309143-07	26
1	R20	RES 2.74K 1/8W 1% MF	1304868	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%	1300445	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%	1300295	17
1	R24	RES 820K 1/4W 10%	1303187	16
8		CONNECTOR PIN	1209456	15
1	J1	CONN 8 PIN AMP	1209340-00	14
1	F1	FUSE 5 AMPS	1209070	13
1	D3	DIODE IN4554B 6.2V	1112122	12
1	C8	CAP 0.02UF 100V -0 +20% DISC	1000004	11
1	C3	CAP 530UF 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-5409503-0-5	3
		X-Y COORDINATE HOLE LOCATION	K-CP-5409503-0-2	2
		+5V REGULATOR	D-IA-5409503-0-0	1

APPROVED FOR RELEASE BY NSA ON 09-08-2013 pursuant to E.O. 13526, ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

DATE: 6-2-77  
 BY: S. Cooper  
 CHECKED: J. Moore  
 DATE: 7/1/77

TRANSISTOR & DIODE CONVERSION CHART

EIA DEC EIA DEC EIA DEC EIA DEC

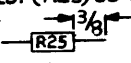
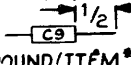
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1N4287 1N4288 1N4289 1N4290 1N4291 1N4292 1N4293 1N4294 1N4295 1N4296 1N4297 1N4298 1N4299 1N4300 1N4301 1N4302 1N4303 1N4304 1N4305 1N4306 1N4307 1N4308 1N4309 1N4310 1N4311 1N4312 1N4313 1N4314 1N4315 1N4316 1N4317 1N4318 1N4319 1N4320 1N4321 1N4322 1N4323 1N4324 1N4325 1N4326 1N4327 1N4328 1N4329 1N4330 1N4331 1N4332 1N4333 1N4334 1N4335 1N4336 1N4337 1N4338 1N4339 1N4340 1N4341 1N4342 1N4343 1N4344 1N4345 1N4346 1N4347 1N4348 1N4349 1N4350 1N4351 1N4352 1N4353 1N4354 1N4355 1N4356 1N4357 1N4358 1N4359 1N4360 1N4361 1N4362 1N4363 1N4364 1N4365 1N4366 1N4367 1N4368 1N4369 1N4370 1N4371 1N4372 1N4373 1N4374 1N4375 1N4376 1N4377 1N4378 1N4379 1N4380 1N4381 1N4382 1N4383 1N4384 1N4385 1N4386 1N4387 1N4388 1N4389 1N4390 1N4391 1N4392 1N4393 1N4394 1N4395 1N4396 1N4397 1N4398 1N4399 1N4400 1N4401 1N4402 1N4403 1N4404 1N4405 1N4406 1N4407 1N4408 1N4409 1N4410 1N4411 1N4412 1N4413 1N4414 1N4415 1N4416 1N4417 1N4418 1N4419 1N4420 1N4421 1N4422 1N4423 1N4424 1N4425 1N4426 1N4427 1N4428 1N4429 1N4430 1N4431 1N4432 1N4433 1N4434 1N4435 1N4436 1N4437 1N4438 1N4439 1N4440 1N4441 1N4442 1N4443 1N4444 1N4445 1N4446 1N4447 1N4448 1N4449 1N4450 1N4451 1N4452 1N4453 1N4454 1N4455 1N4456 1N4457 1N4458 1N4459 1N4460 1N4461 1N4462 1N4463 1N4464 1N4465 1N4466 1N4467 1N4468 1N4469 1N4470 1N4471 1N4472 1N4473 1N4474 1N4475 1N4476 1N4477 1N4478 1N4479 1N4480 1N4481 1N4482 1N4483 1N4484 1N4485 1N4486 1N4487 1N4488 1N4489 1N4490 1N4491 1N4492 1N4493 1N4494 1N4495 1N4496 1N4497 1N4498 1N4499 1N4500 1N4501 1N4502 1N4503 1N4504 1N4505 1N4506 1N4507 1N4508 1N4509 1N4510 1N4511 1N4512 1N4513 1N4514 1N4515 1N4516 1N4517 1N4518 1N4519 1N4520 1N4521 1N4522 1N4523 1N4524 1N4525 1N4526 1N4527 1N4528 1N4529 1N4530 1N4531 1N4532 1N4533 1N4534 1N4535 1N4536 1N4537 1N4538 1N4539 1N4540 1N4541 1N4542 1N4543 1N4544 1N4545 1N4546 1N4547 1N4548 1N4549 1N4550 1N4551 1N4552 1N4553 1N4554 1N4555 1N4556 1N4557 1N4558 1N4559 1N4560 1N4561 1N4562 1N4563 1N4564 1N4565 1N4566 1N4567 1N4568 1N4569 1N4570 1N4571 1N4572 1N4573 1N4574 1N4575 1N4576 1N4577 1N4578 1N4579 1N4580 1N4581 1N4582 1N4583 1N4584 1N4585 1N4586 1N4587 1N4588 1N4589 1N4590 1N4591 1N4592 1N4593 1N4594 1N4595 1N4596 1N4597 1N4598 1N4599 1N4600 1N4601 1N4602 1N4603 1N4604 1N4605 1N4606 1N4607 1N4608 1N4609 1N4610 1N4611 1N4612 1N4613 1N4614 1N4615 1N4616 1N4617 1N4618 1N4619 1N4620 1N4621 1N4622 1N4623 1N4624 1N4625 1N4626 1N4627 1N4628 1N4629 1N4630 1N4631 1N4632 1N4633 1N4634 1N4635 1N4636 1N4637 1N4638 1N4639 1N4640 1N4641 1N4642 1N4643 1N4644 1N4645 1N4646 1N4647 1N4648 1N4649 1N4650 1N4651 1N4652 1N4653 1N4654 1N4655 1N4656 1N4657 1N4658 1N4659 1N4660 1N4661 1N4662 1N4663 1N4664 1N4665 1N4666 1N4667 1N4668 1N4669 1N4670 1N4671 1N4672 1N4673 1N4674 1N4675 1N4676 1N4677 1N4678 1N4679 1N4680 1N4681 1N4682 1N4683 1N4684 1N4685 1N4686 1N4687 1N4688 1N4689 1N4690 1N4691 1N4692 1N4693 1N4694 1N4695 1N4696 1N4697 1N4698 1N4699 1N4700 1N4701 1N4702 1N4703 1N4704 1N4705 1N4706 1N4707 1N4708 1N4709 1N4710 1N4711 1N4712 1N4713 1N4714 1N4715 1N4716 1N4717 1N4718 1N4719 1N4720 1N4721 1N4722 1N4723 1N4724 1N4725 1N4726 1N4727 1N4728 1N4729 1N4730 1N4731 1N4732 1N4733 1N4734 1N4735 1N4736 1N4737 1N4738 1N4739 1N4740 1N4741 1N4742 1N4743 1N4744 1N4745 1N4746 1N4747 1N4748 1N4749 1N4750 1N4751 1N4752 1N4753 1N4754 1N4755 1N4756 1N4757 1N4758 1N4759 1N4760 1N4761 1N4762 1N4763 1N4764 1N4765 1N4766 1N4767 1N4768 1N4769 1N4770 1N4771 1N4772 1N4773 1N4774 1N4775 1N4776 1N4777 1N4778 1N4779 1N4780 1N4781 1N4782 1N4783 1N4784 1N4785 1N4786 1N4787 1N4788 1N4789 1N4790 1N4791 1N4792 1N4793 1N4794 1N4795 1N4796 1N4797 1N4798 1N4799 1N4800 1N4801 1N4802 1N4803 1N4804 1N4805 1N4806 1N4807 1N4808 1N4809 1N4810 1N4811 1N4812 1N4813 1N4814 1N4815 1N4816 1N4817 1N4818 1N4819 1N4820 1N4821 1N4822 1N4823 1N4824 1N4825 1N4826 1N4827 1N4828 1N4829 1N4830 1N4831 1N4832 1N4833 1N4834 1N4835 1N4836 1N4837 1N4838 1N4839 1N4840 1N4841 1N4842 1N4843 1N4844 1N4845 1N4846 1N4847 1N4848 1N4849 1N4850 1N4851 1N4852 1N4853 1N4854 1N4855 1N4856 1N4857 1N4858 1N4859 1N4860 1N4861 1N4862 1N4863 1N4864 1N4865 1N4866 1N4867 1N4868 1N4869 1N4870 1N4871 1N4872 1N4873 1N4874 1N4875 1N4876 1N4877 1N4878 1N4879 1N4880 1N4881 1N4882 1N4883 1N4884 1N4885 1N4886 1N4887 1N4888 1N4889 1N4890 1N4891 1N4892 1N4893 1N4894 1N4895 1N4896 1N4897 1N4898 1N4899 1N4900 1N4901 1N4902 1N4903 1N4904 1N4905 1N4906 1N4907 1N4908 1N4909 1N4910 1N4911 1N4912 1N4913 1N4914 1N4915 1N4916 1N4917 1N4918 1N4919 1N4920 1N4921 1N4922 1N4923 1N4924 1N4925 1N4926 1N4927 1N4928 1N4929 1N4930 1N4931 1N4932 1N4933 1N4934 1N4935 1N4936 1N4937 1N4938 1N4939 1N4940 1N4941 1N4942 1N4943 1N4944 1N4945 1N4946 1N4947 1N4948 1N4949 1N4950 1N4951 1N4952 1N4953 1N4954 1N4955 1N4956 1N4957 1N4958 1N4959 1N4960 1N4961 1N4962 1N4963 1N4964 1N4965 1N4966 1N4967 1N4968 1N4969 1N4970 1N4971 1N4972 1N4973 1N4974 1N4975 1N4976 1N4977 1N4978 1N4979 1N4980 1N4981 1N4982 1N4983 1N4984 1N4985 1N4986 1N4987 1N4988 1N4989 1N4990 1N4991 1N4992 1N4993 1N4994 1N4995 1N4996 1N4997 1N4998 1N4999 1N5000 1N5001 1N5002 1N5003 1N5004 1N5005 1N5006 1N5007 1N5008 1N5009 1N5010 1N5011 1N5012 1N5013 1N5014 1N5015 1N5016 1N5017 1N5018 1N5019 1N5020 1N5021 1N5022 1N5023 1N5024 1N5025 1N5026 1N5027 1N5028 1N5029 1N5030 1N5031 1N5032 1N5033 1N5034 1N5035 1N5036 1N5037 1N5038 1N5039 1N5040 1N5041 1N5042 1N5043 1N5044 1N5045 1N5046 1N5047 1N5048 1N5049 1N5050 1N5051 1N5052 1N5053 1N5054 1N5055 1N5056 1N5057 1N5058 1N5059 1N5060 1N5061 1N5062 1N5063 1N5064 1N5065 1N5066 1N5067 1N5068 1N5069 1N5070 1N5071 1N5072 1N5073 1N5074 1N5075 1N5076 1N5077 1N5078 1N5079 1N5080 1N5081 1N5082 1N5083 1N5084 1N5085 1N5086 1N5087 1N5088 1N5089 1N5090 1N5091 1N5092 1N5093 1N5094 1N5095 1N5096 1N5097 1N5098 1N5099 1N5100 1N5101 1N5102 1N5103 1N5104 1N5105 1N5106 1N5107 1N5108 1N5109 1N5110 1N5111 1N5112 1N5113 1N5114 1N5115 1N5116 1N5117 1N5118 1N5119 1N5120 1N5121 1N5122 1N5123 1N5124 1N5125 1N5126 1N5127 1N5128 1N5129 1N5130 1N5131 1N5132 1N5133 1N5134 1N5135 1N5136 1N5137 1N5138 1N5139 1N5140 1N5141 1N5142 1N5143 1N5144 1N5145 1N5146 1N5147 1N5148 1N5149

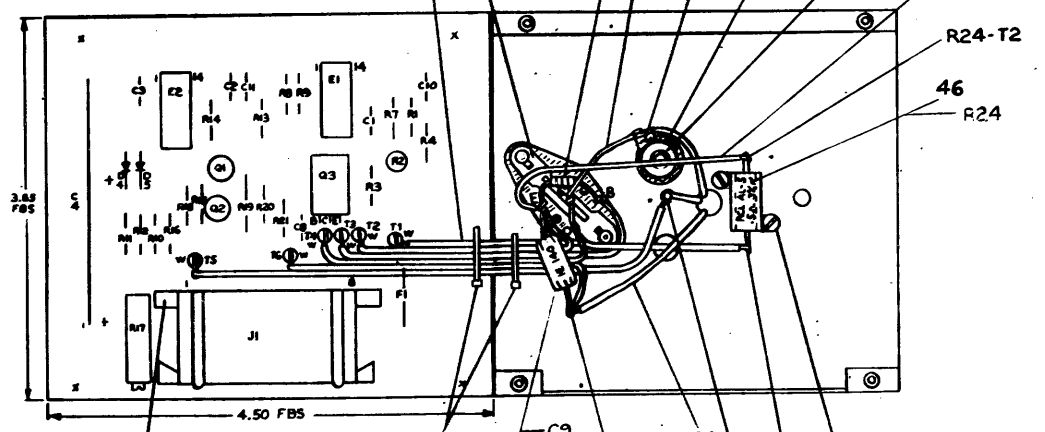
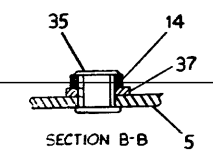
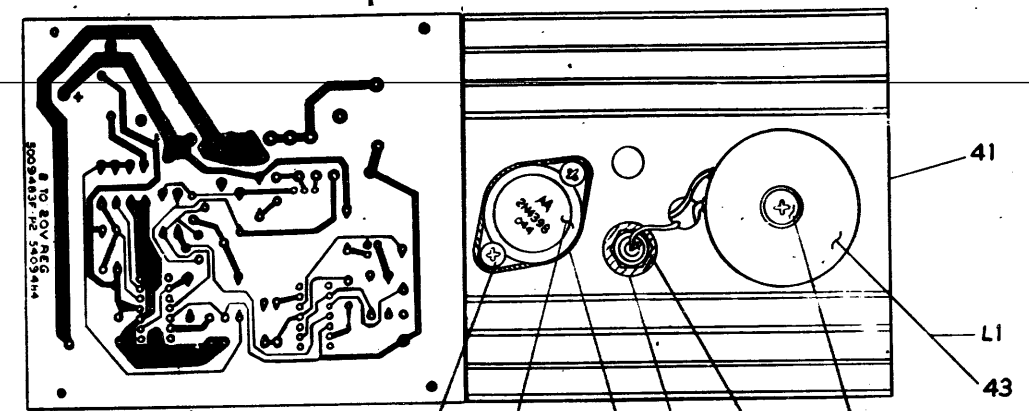
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WIRE TABLE					EXTERNAL COMPONENTS								
ITEM NO.	DESCRIPTION	LENGTH INCHES ± 1/8	STRIP LENGTH X	STRIP LENGTH Y	CONNECTIONS FROM	CONNECTIONS TO	ITEM NO.	LENGTH	DESCRIPTION	POL	CONNECTIONS FROM	CONNECTIONS TO	POL
43	—	BLK	2 1/8	—	1/2	L1	45	SEE NOTE 2	RES 100 Ω 1/4W 5%		Q4-E	Q4-B	
43	—	BLK	2 1/8	—	1/2	L1	47	SEE NOTE 3	CAP 10 μF 50V 10%	+	Q4-E	TS-1	
63	18	BLU	2 1/4	1/2	1/2	Q4-C					D3-ANODE	R24-T2	
67	18	GRY	3 5/8	1/2	1/2	Q4-E					TS-1	R24-T1	
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 LUGS					R24-T1		
67	18	GRY	4 7/8	1/2	1/2						Q4-E		
66	18	VIO	5 1/8	1/2	1/2						Q4-B		
65	18	BLU	5 1/8	1/2	1/2						Q4-C		
64	18	GRN	5 1/2	1/2	1/2						TS-1		
63	18	YEL	6 7/8	1/2	1/2	SPLIT LUGS					TS-2		

SEE NOTE 5

NOTES:

- R17 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R2 IS 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.



SEE SECTION B-B

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRILL		T. QUILLIN	DATE	7-SEP-71
CHKD.		J. FLEMING	DATE	8-SEP-71
ENGR.		P. SVENDSEN	DATE	8-SEP-71
PROD. ENGR.		P. SVENDSEN	DATE	8-SEP-71
PROD.		P. FAZIL	DATE	19-OCT-71
NEXT HIGHER ASSY				
D-UA-H737-0-0				
DEC. NO.		EIA NO.	DEC. NO.	EIA NO.
SCALE		NONE		DIA
SHEET		OF		DIST.

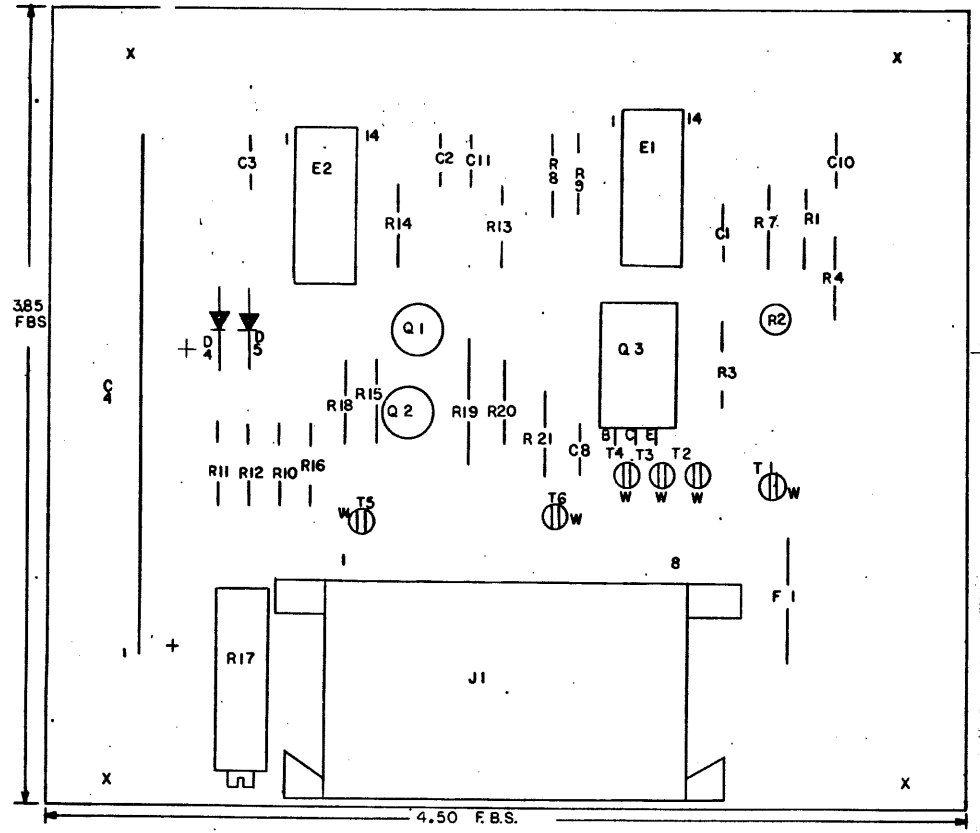
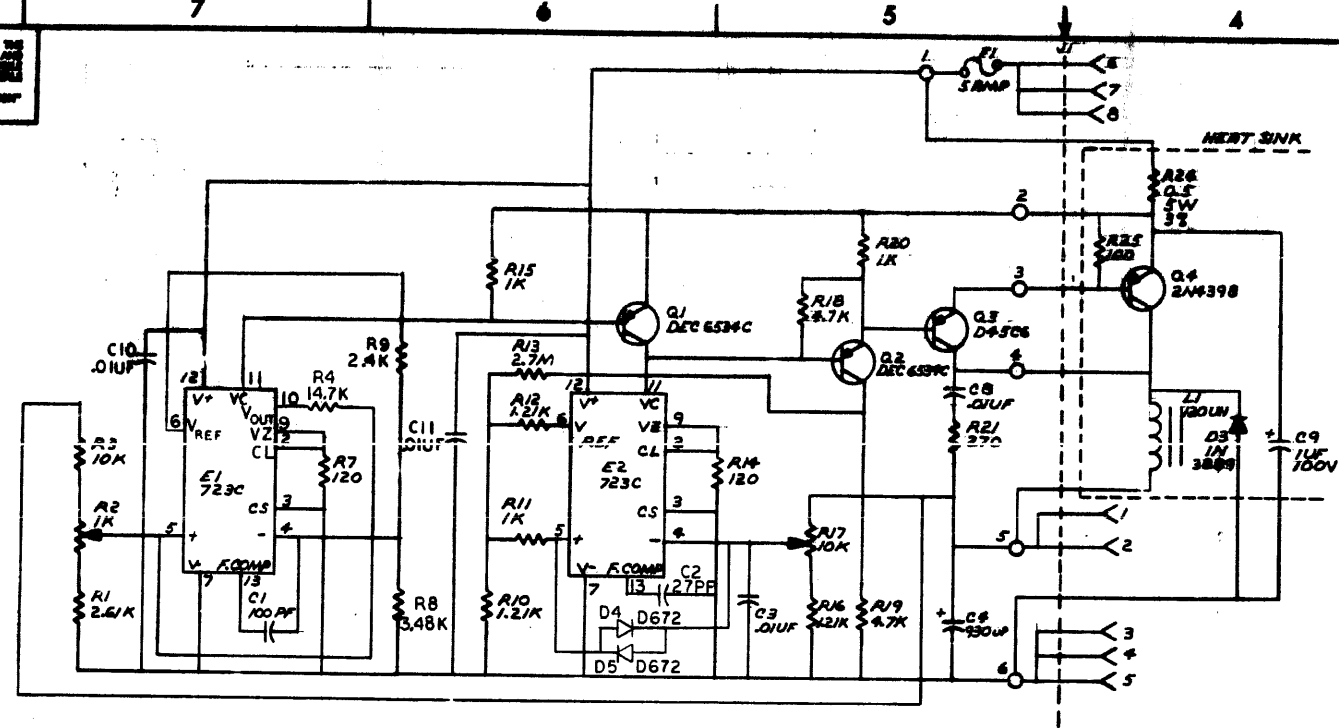
REVISED DRAWN  
5409484-00007 K  
J. RINALDIS  
CHK. CHANGE NO. REV

SEMICONDUCTOR CONVERSION CHART

8 TO 20V  
REGULATOR

NUMBER  
5409484-0-0

5409484-0-0 K




QTY	REF DESIGNATION	DESCRIPTION	PART NO.	REV.
4		WASHER, LOCK SPRING	9007801	69
A/A		WIRE #18 AWG STRD (WHT)	9107360-99	18
A/A		WIRE #18 AWG STRD (GRY)	9107360-88	17
A/A		WIRE #18 AWG STRD (VIO)	9107360-77	16
A/A		WIRE #18 AWG STRD (BLU)	9107360-66	15
A/A		WIRE #18 AWG STRD (GRN)	9107360-55	14
A/A		WIRE #18 AWG STRD (YEL)	9107360-44	13
2		#2 INTERNAL LOCK WASHER	9006631	12
2		TIE WRAPS	9007031	11
1		WASHER, FLAT 3/16	9006666	10
1		#10-32 HEX NUT	9006564	9
2		2/56 x 3/16" SCREW	9006000-4	8
2		6/32 x 5/8" PAN HD SCREW	9006025-1	7
1		10-32 x 1" TRUSS HD SCREW	9006077-3	6
1		#90 INTERNAL LOCK WASHER	9006635	5
1		BUSHING (DIODE)	9008441	4
1		SOLDER LUG	9008150	3
4		#6-20 x 3/8 SELF TAPPING SCREW	9008407-01	2
1		THERMAL INSULATOR	9008219	1
2		THERMAL INSULATOR	9008424	50
2	TS-1, TS-2	STAND OFF (STUD TYPE)	9009060	49
1		TRANSISTOR SOCKET	1210130	48
1	R9	CAP 1UF 100V	1005507	47
1	R24	RES. 0.5 3% 5W	1310508	46
1	R25	RES. 100 5% 1/4W	1300229	45
1	Q6	TRANSISTOR 2N4398	1505870	44
1	L1	120UH CHOK	1610573	43
1	Q3	DIODE 1N3889	1110491	42
1		HEAT SINK	D-2A-3309543-0-0	41
6		SPLIT LUSS	9006735	40
A/A		THERMAL COMPOUND	9008268	39
1	F1	FUSE 5 AMPS	1209070	38
2		WASHER NYLON	9006707	37
8		CONNECTOR PINS	1209456	36
2		EYELET	9006732	35
2		WASHER INT TOOTH #6	9006633	34
2	E1, 2	DIP REGULATOR 723C	1910415	33
1	Q3	TRANSISTOR D4506	1510414	32
2	Q1, 2	TRANSISTOR DEC 6534C	1503409-02	31
1	R21	RES. 270 1/4W 5%	1301972	29
1	R19	RES. 4.7K 1/2W 5%	1300445	28
1	R18	RES. 4.7K 1/4W 5%	1300447	27
1	R17	RES. VARIABLE 10K 3/4W 10%	1309143-10	26
1	R13	RES. 2.7M 1/4W 5%	1309680	25
3	R11, 15, 20	RES 1K 1/4W 5%	1300365	24
3	R10, 12, 16	RES 1.2K 1/8W 1% MF	1302871	23
1	R8	RES 3.48K 1/8W 1% MF	1305114	22
2	R7, 14	RES 120 1/4W 5%	1300247	21
				20
1	R9	RES 2.4K 1/4W 5%	1303177	19
1	R4	RES 14.7K 1/8W 1% MF	1302941	18
1	R3	RES 10K 1/8W 1% MF	1303912	17
1	R2	RES VARIABLE 1K 1/2W	1309150-03	16
1	R1	RES 2.61K 1/8W 1% MF	1303303	15
1	J1	AMP 8 PIN CONNECTOR	1209340-00	14
2	D4, D5	DIODE D672	1105275	13
				12
				11
				10
1	C4	CAP. 930UF 30V, 10+75 E	1005509	9
4	C3, 8, 10, 11	CAP. .01UF 100V 20% AXIAL	1006410	8
1	E2	CAP 27PF 100V 5% MICA	1001739	7
1	C1	CAP 100PF 100V 5% DM.	1000016	6
1		ETCHED CIRCUIT BOARD	5009483	5
		MODULE ECO HISTORY	B-WH-3009484-0-6	4
		ASSY DRILLING HOLE LAYOUT	B-WH-340-184-0-5	3
		X-Y COORDINATE HOLE LOCATION	K-50-5409484-0-6	2
		B TO 20 V REGULATOR	B-20-5409484-0-0	1

REV.	CHANGE NO.	REV.	DATE	BY	CHK
1	00005	H	5/19/75	J. RINALDIS	J. RINALDIS
2			7/14/75	J. RINALDIS	J. RINALDIS
3			11/17/75	J. RINALDIS	J. RINALDIS

DRWG NO	REV LTR
K-WL-RKØ5-Ø-3	C

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RKØ5-00014	7/72	Ed
B	RKØ5-00031	2/73	BJ
C	RKØ5-00005	4/76	PMC

DRAWN <i>RE Hellen</i>	DATE 11/8/71		TITLE WIRE LIST (RKØ5)		
CHECKED <i>[Signature]</i>	DATE 11-9-71		FOR TAPE* FILE*		
ENG <i>Bob Jensen</i>	DATE 24 Nov 71		ASSY NO D-AD-7008696-0-0	SIZE K	CODE WL
PROJ ENG <i>EL Simmons</i>	DATE 11-24-71		SCALE NONE	DWG. NO. RKØ5-Ø-3	REV LTR C
PROD <i>Alan Kautsky</i>	DATE 11/29/71	SHEET   OF	DIST.		

RK25.C RUN NAME	A/P	WRP28R.V34(62)-1 PTN NAME	31-Jul-75 ORDER PIN	RAY - ORDER	Q	DRAW	FV RG Y OPT	X Z	REMARKS	2-Jun-76	8156 PAGE 1 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
+15VDC	H	A05D2		1-01 *			D05-9	1			0-4/8	1
+15VDC	H	A06D1		1-02 *			D05-9					1
+15VDC	H			1							0-4/8	1
+5VDC BULB	H	B06A1		1-01 *			D05-9	1			0-4/8	2
+5VDC BULB	H	B06A2		1-02 *			D05-9					2
+5VDC BULB	H			1							0-4/8	2
12R	H	A01M2		1-01 *			D05-1	1			2-5/8	3
12R	H	B03A1		1-02 *			D05-1					3
12R	H			1							2-5/8	3
AC LOW	H	A04R2		1-01 *			D05-8	1			2-7/8	4
AC LOW	H	R08F1		1-02 *			D05-8	2			1	4
AC LOW	H	R07F1		1-03 *			D05-8					4
AC LOW	H			1							3-7/8	4
ADDR ACCEPTED	L	A02S1		1-01 *			D05-5	1			1-2/8	5
ADDR ACCEPTED	L	A03N1		1-02 *			D05-5					5
ADDR ACCEPTED	L			1							1-2/8	5
ADDRESS INVALID	L	R02F1		1-01 *			D05-2	1			0-5/8	6
ADDRESS INVALID	L	R03E1		1-02 *			D05-2					6
ADDRESS INVALID	L			1							0-5/8	6
BLOWER MTR RELAY DR	H	A04A1		1-01 *			D05-9	1			5-5/8	7
BLOWER MTR RELAY DR	H	R06N1		1-02 *			D05-9					7
BLOWER MTR RELAY DR	H			1							5-5/8	7
BUS ADDR ACCEPTED	L	A02R1		1-01 *			D05-4	1			3-2/8	8
BUS ADDR ACCEPTED	L	A07R2		1-02 *			D05-4	2			1	8
BUS ADDR ACCEPTED	L	A08R2		1-03 *			D05-4					8
BUS ADDR ACCEPTED	L			1							4-2/8	8
BUS ADDR INVALID	L	A08T2		1-01 *			D05-4	2			1	9
BUS ADDR INVALID	L	A07T2		1-02 *			D05-4	1			4-1/8	9
BUS ADDR INVALID	L	R02A1		1-03 *			D05-4					9
BUS ADDR INVALID	L			1							5-1/8	9
BUS FILE READY	L	A04M1		1-01 *			D05-7	1			4-6/8	10
BUS FILE READY	L	R08N1		1-02 *			D05-7	2			1	10
BUS FILE READY	L	B07N1		1-03 *			D05-7					10
BUS FILE READY	L			1							5-6/8	10
BUS INDEX PUL	L	A02K1		1-01 *			D05-3	1			4-6/8	11
BUS INDEX PUL	L	R08M1		1-02 *			D05-3	2			1	11
BUS INDEX PUL	L	R07M1		1-03 *			D05-3					11
BUS INDEX PUL	L			1							5-6/8	11
BUS P/W/S READY	L	A02M1		1-01 *			D05-4	1			3-5/8	12
BUS P/W/S READY	L	R07H2		1-02 *			D05-4	2			1	12
BUS P/W/S READY	L	A08H2		1-03 *			D05-4					12
BUS P/W/S READY	L			1							4-5/8	12

RK25.C RUN NAME	A/P	WRP28R.V34(62)-1 PTN NAME	31-Jul-75 ORDER PIN	RAY - ORDER	Q	DRAW	FV RG Y OPT	X Z	REMARKS	2-Jun-76	8156 PAGE 2 NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
BUS SECTOR ADDR	L	A02H1		1-01 *			D05-3	1			4-7/8	13
BUS SECTOR ADDR	L	R08L1		1-02 *			D05-3	2			1	13
BUS SECTOR ADDR	L	R07L1		1-03 *			D05-3					13
BUS SECTOR ADDR	L			1							5-7/8	13
BUS SECTOR ADDR 1	L	A02J1		1-01 *			D05-4	1			3-5/8	14
BUS SECTOR ADDR 1	L	A07P2		1-02 *			D05-4	2			1	14
BUS SECTOR ADDR 1	L	A08P2		1-03 *			D05-4					14
BUS SECTOR ADDR 1	L			1							4-5/8	14
BUS SECTOR ADDR 2	L	A02L1		1-01 *			D05-4	1			4-1/8	15
BUS SECTOR ADDR 2	L	R07K2		1-02 *			D05-4	2			1	15
BUS SECTOR ADDR 2	L	R08K2		1-03 *			D05-4					15
BUS SECTOR ADDR 2	L			1							5-1/8	15
BUS SECTOR ADDR 3	L	A02P1		1-01 *			D05-4	1			4-1/8	16
BUS SECTOR ADDR 3	L	R07J1		1-02 *			D05-4	2			1	16
BUS SECTOR ADDR 3	L	R08J1		1-03 *			D05-4					16
BUS SECTOR ADDR 3	L			1							5-1/8	16
BUS SECTOR PULSE	L	A02F1		1-01 *			D05-3	1			5-2/8	17
BUS SECTOR PULSE	L	R08N2		1-02 *			D05-3	2			1	17
BUS SECTOR PULSE	L	R07N2		1-03 *			D05-3					17
BUS SECTOR PULSE	L			1							6-2/8	17
BUS SEEK INCOMPLETE	L	A02H1		1-01 *			D05-4	1			3-3/8	18
BUS SEEK INCOMPLETE	L	A07S2		1-02 *			D05-4	2			1	18
BUS SEEK INCOMPLETE	L	A08S2		1-03 *			D05-4					18
BUS SEEK INCOMPLETE	L			1							4-3/8	18
BUS WR PROTECT STATUS	H	R04U1		1-01 *			D05-8	1			2-3/8	19
BUS WR PROTECT STATUS	H	R07P1		1-02 *			D05-8	2			1	19
BUS WR PROTECT STATUS	H	R08P1		1-03 *			D05-8					19
BUS WR PROTECT STATUS	H			1							3-3/8	19
BUS WRITE CK	H	R04P1		1-01 *			D05-8	1			2-3/8	20
BUS WRITE CK	H	R07K1		1-02 *			D05-8	2			1	20
BUS WRITE CK	H	R08K1		1-03 *			D05-8					20
BUS WRITE CK	H			1							3-3/8	20
COS POSITION	H	A05U1		1-01 *			D05-9	1			1-5/8	21
COS POSITION	H	B06B1		1-02 *			D05-9					21
COS POSITION	H			1							1-5/8	21
COUNT PULSE FWD	H	A05A1		1-01 *			D05-5	1			5-1/8	22
COUNT PULSE FWD	H	R03K1		1-02 *			D05-5					22
COUNT PULSE FWD	H			1							5-1/8	22
COUNT PULSE REV	H	A05C1		1-01 *			D05-5	1			4-3/8	23
COUNT PULSE REV	H	R03F1		1-02 *			D05-5					23
COUNT PULSE REV	H			1							4-3/8	23
CYC ADDR 1	L	A07K1		1-01 *			D05-5	2			1	24
CYC ADDR 2	L	R08K1		1-02 *			D05-5	1			4-4/8	24
CYC ADDR 3	L	R03L1		1-03 *			D05-5					24
CYC ADDR 4	L			1							5-4/8	24



RK45.C	WPP288.V34(62)-1 31-JUL-75											2-Jun-76	8156	PAGE 5			RUN
RUN NAME	A/P	PTN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	NUMBER	
		NAME	PIN	ORDER		OPT							FLAG				
GND 06		A06C2		1-01 *							1			2-1/8		47	
GND 06		A06T1		1-02 *							2			1-5/8		47	
GND 06		R06C2		1-03 *			D05-9				1			0-4/8		47	
GND 06		R06C1		1-04 *			D05-9				2			0-4/8		47	
GND 06		R06E1		1-05 *			D05-9				1			0-5/8		47	
GND 06		R06J1		1-06 *			D05-9				2			1-4/8		47	
GND 06		R06T1		1-07 *			D05-9				1			0-1/8		47	
GND 06		R06S1		1-08 *			D05-9									47	
GND 06				1										7-0/8		47	
GND 07		A07R2		1-01 *							1			0-1/8		48	
GND 07		A07C2		1-02 *							2			1-5/8		48	
GND 07		A07N1		1-03 *							1			0-1/8		48	
GND 07		A07P1		1-04 *							2			0-1/8		48	
GND 07		A07R1		1-05 *							1			0-1/8		48	
GND 07		A07S1		1-06 *							2			0-1/8		48	
GND 07		A07T1		1-07 *							1			0-4/8		48	
GND 07		A07V1		1-08 *							2			1-3/8		48	
GND 07		R07R2		1-09 *							1			0-1/8		48	
GND 07		R07C2		1-10 *							2			0-1/8		48	
GND 07		R07D1		1-11 *							1			0-1/8		48	
GND 07		R07E1		1-12 *							2			1-7/8		48	
GND 07		R07T1		1-13 *							1			0-4/8		48	
GND 07		R07V2		1-14 *												48	
GND 07				1										6-7/8		48	
GND 08		A08R2		1-01 *							1			0-1/8		49	
GND 08		A08C2		1-02 *							2			1-5/8		49	
GND 08		A08N1		1-03 *							1			0-1/8		49	
GND 08		A08P1		1-04 *							2			0-1/8		49	
GND 08		A08R1		1-05 *							1			0-1/8		49	
GND 08		A08S1		1-06 *							2			0-1/8		49	
GND 08		A08T1		1-07 *							1			0-4/8		49	
GND 08		A08V1		1-08 *							2			1-3/8		49	
GND 08		R08R2		1-09 *							1			0-1/8		49	
GND 08		R08C2		1-10 *							2			0-1/8		49	
GND 08		R08D1		1-11 *							1			0-1/8		49	
GND 08		R08E1		1-12 *							2			1-7/8		49	
GND 08		R08T1		1-13 *							1			0-4/8		49	
GND 08		R08V2		1-14 *												49	
GND 08				1										6-7/8		49	
GOOD STROBE	L	R02E1		1-01 *			D05-5				1			1-1/8		50	
GOOD STROBE	L	R03D1		1-02 *			D05-5									50	
GOOD STROBE	L			1										1-1/8		50	
HEAD SELECT	L	A01P1		1-01 *			D05-1				1			5-2/8		51	
HEAD SELECT	L	R07M2		1-02 *			D05-1				2			1		51	
HEAD SELECT	L	R08M2		1-03 *			D05-1									51	
HEAD SELECT	L			1										6-2/8		51	
HIGH DENSITY	L	A01R2		1-01 *			D05-4				1			4-3/8		52	
HIGH DENSITY	L	R07P2		1-02 *			D05-4				2			1		52	
HIGH DENSITY	L	R08P2		1-03 *			D05-4									52	
HIGH DENSITY	L			1										5-3/8		52	

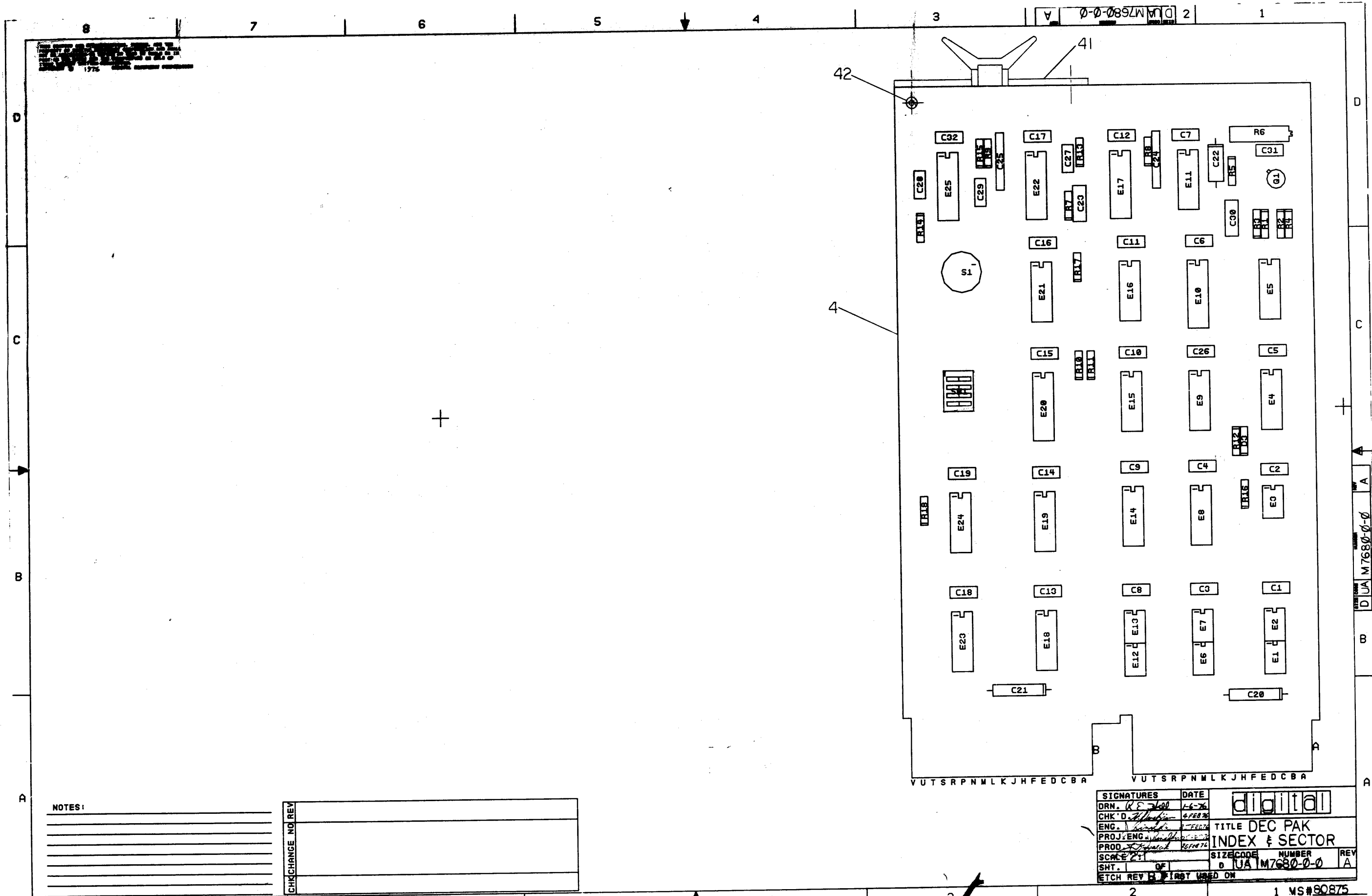
RK25.C	WPP288.V34(62)-1 31-JUL-75											2-Jun-76	8156	PAGE 6			RUN
RUN NAME	A/P	PTN	ORDER	BAY -	Q	DRAW	RV	RG	Y	X	Z	REMARKS	NC	LENGTH	EXCEPTIONS	NUMBER	
		NAME	PIN	ORDER		OPT							FLAG				
HOMF	L	A04R1		1-01 *			D05-7				2			2-1/8		53	
HOMF	L	R03R1		1-02 *			D05-7				1			2-3/8		53	
HOMF	L	R06F1		1-03 *			D05-7									53	
HOMF	L			1										4-4/8		53	
INDEX PULSE	L	A02R2		1-01 *			D05-3				1			1-4/8		54	
INDEX PULSE	L	A04J1		1-02 *			D05-3									54	
INDEX PULSE	L			1										1-4/8		54	
INDEX/SECTOR	L	R02D1		1-01 *			D05-5				1			1-7/8		55	
INDEX/SECTOR	L	R04H2		1-02 *			D05-5									55	
INDEX/SECTOR	L			1										1-7/8		55	
INNER LIMIT	H	A05R1		1-01 *			D05-2				1			3-3/8		56	
INNER LIMIT	H	A03U1		1-02 *			D05-2				2			2-3/8		56	
INNER LIMIT	H	R02J1		1-03 *			D05-2									56	
INNER LIMIT	H			1										5-0/8		56	
INTERLOCK	L	A04H1		1-01 *			D05-7				1			1-7/8		57	
INTERLOCK	L	A06R1		1-02 *			D05-7									57	
INTERLOCK	L			1										1-7/8		57	
LIMIT	H	A05K1		1-01 *			D05-9				1			3-3/8		58	
LIMIT	H	R06H1		1-02 *			D05-9									58	
LIMIT	H			1										3-3/8		58	
LOAD HEADS	L	R03C1		1-01 *			D05-6				1			1		59	
LOAD HEADS	L	R04C1		1-02 *			D05-6									59	
LOAD HEADS	L			1										1-0/8		59	
LOAD IND	H	A04L1		1-01 *			D05-8				1			1-7/8		60	
LOAD IND	H	A06A1		1-02 *			D05-8									60	
LOAD IND	H			1										1-7/8		60	
LOAD SW	L	A06K1		1-01 *			D05-7				1			3-3/8		61	
LOAD SW	L	R04D1		1-02 *			D05-7									61	
LOAD SW	L			1										3-3/8		61	
MOVE	L	A03L1		1-01 *			D05-2				1			4-1/8		62	
MOVE	L	R02P1		1-02 *			D05-2									62	
MOVE	L			1										4-1/8		62	
NO PROTECT	L	A01N2		1-01 *			D05-1				1			3-5/8		63	
NO PROTECT	L	R04H1		1-02 *			D05-1									63	
NO PROTECT	L			1										3-5/8		63	
ODD DRIVE	L	A02J2		1-01 *							1			3-3/8		64	
ODD DRIVE	L	R03F2		1-02 *												64	
ODD DRIVE	L			1										3-3/8		64	
ON	L	A02A1		1-01 *			D05-5				1			2-1/8		65	
ON	L	A03M1		1-02 *			D05-5									65	
ON	L			1										2-1/8		65	





RK05.C RUN NAME	A/P	WRP208.V34(62)-1 PIN NAME	ORDER PIN	31-Jul-75 BAY - ORDER	Q	DRAW	RV OPT	RG	Y	X	Z	REMARKS	2-Jun-76	0156 NC FLAG	PAGE 9 LENGTH EXCEPTIONS	RUN NUMBER
SELECT 3	L	A08L2		1-01 *				D05-3			2				1	91
SELECT 3	L	A07L2		1-02 *				D05-3			1				5-7/8	91
SELECT 3	L	B02T2		1-03 *				D05-3								91
SELECT 3	L			1											6-7/8	91
SELECT 4	L	A08M2		1-01 *				D05-3			2				1	92
SELECT 4	L	A07M2		1-02 *				D05-3			1				5	92
SELECT 4	L	B02U2		1-03 *				D05-3								92
SELECT 4	L			1											6-0/8	92
SELECT/READY	L	A01H2		1-01 *				D05-1			1				2-3/8	93
SELECT/READY	L	A04V1		1-02 *							2				2-2/8	93
SELECT/READY	L	B02H1		1-03 *				D05-1								93
SELECT/READY	L			1											4-5/8	93
SELECTED READ GATE	H	A01B1		1-01 *				D05-9			1				1-3/8	94
SELECTED READ GATE	H	A02F2		1-02 *				D05-9								94
SELECTED READ GATE	H			1											1-3/8	94
SELECTED WRITE GATE	H	A01V1		1-01 *				D05-1			1				1-2/8	95
SELECTED WRITE GATE	H	A02V2		1-02 *				D05-1								95
SELECTED WRITE GATE	H			1											1-2/8	95
SET UNSAFE	L	A01U2		1-01 *				D05-1			1				2-2/8	96
SET UNSAFE	L	B04A1		1-02 *				D05-1								96
SET UNSAFE	L			1											2-2/8	96
SIN POSITION	H	A05N1		1-01 *				D05-9			1				2-5/8	97
SIN POSITION	H	B06D1		1-02 *				D05-9								97
SIN POSITION	H			1											2-5/8	97
STROBE	L	B02V1		1-01 *				D05-2			1				4-1/8	98
STROBE	L	B07H1		1-02 *				D05-2			2				1	98
STROBE	L	B08H1		1-03 *				D05-2								98
STROBE	L			1											5-1/8	98
UNSAFE	L	A01L2		1-01 *				D05-1			1				2-5/8	99
UNSAFE	L	A04V2		1-02 *				D05-1								99
UNSAFE	L			1											2-5/8	99
WRITE DATA + CLK	H	A01J1		1-01 *				D05-1			1				3-7/8	100
WRITE DATA + CLK	H	A07F2		1-02 *				D05-1			2				1	100
WRITE DATA + CLK	H	A08F2		1-03 *				D05-1								100
WRITE DATA + CLK	H			1											4-7/8	100
WRITE GATE	L	A01J2		1-01 *				D05-1			1				4-6/8	101
WRITE GATE	L	B07L2		1-02 *				D05-1			2				1	101
WRITE GATE	L	B08L2		1-03 *				D05-1								101
WRITE GATE	L			1											5-6/8	101
WRITE PROTECT SET	L	B02S1		1-01 *				D05-3			1				3-3/8	102
WRITE PROTECT SET	L	B07R2		1-02 *				D05-3			2				1	102
WRITE PROTECT SET	L	B08R2		1-03 *				D05-3								102
WRITE PROTECT SET	L			1											4-3/8	102

RK05.C RUN NAME	A/P	WRP208.V34(62)-1 PIN NAME	ORDER PIN	31-Jul-75 BAY - ORDER	Q	DRAW	RV OPT	RG	Y	X	Z	REMARKS	2-Jun-76	0156 NC FLAG	PAGE 10 LENGTH EXCEPTIONS	RUN NUMBER
WRITE SW OFF	L	A06N1		1-01 *				D05-7			1				3-3/8	103
WRITE SW OFF	L	B04F1		1-02 *				D05-7								103
WRITE SW OFF	L			1											3-3/8	103
WRITE SW ON	L	A06M1		1-01 *				D05-7			1				3-3/8	104
WRITE SW ON	L	B04E1		1-02 *				D05-7								104
WRITE SW ON	L			1											3-3/8	104
WRITING IND	H	A02U1		1-01 *				D05-5			1				3-2/8	105
WRITING IND	H	A06E1		1-02 *				D05-5								105
WRITING IND	H			1											3-2/8	105



NOTES:

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CHG	NO	REV

SIGNATURES		DATE	digital
DRN. K. S.	1-6-76		
CHK'D. [Signature]	4 FEB 76		
ENG. [Signature]	7 FEB 76		
PROJ. ENG. [Signature]	11 FEB 76		
PROD. [Signature]	16 FEB 76		
SCALE 2:1	SIZE CODE	NUMBER	REV
SHT. 1 OF 1	0 UA M7680-0-0	1	A
ETCH REV B FIRST USED ON			

DUA M7680-0-0  
 1 MS#80875

**DIGITAL EQUIPMENT CORPORATION**

**PARTS LIST**

ETCH REV B

**QUANTITY / VARIATION**

**NOTES:**

MADE BY K. HODGSON  
 DATE 3 FEB 76  
 ENG Joseph Kowalski  
 DATE 25 FEB 76

CHECKED *T. Vanhijem*  
 DATE 3 FEB 76  
 PROB Jack Kowalski  
 DATE 25 FEB 76

SECTION  
 ISSUED SECTION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION										REF. DESIGNATION		
1	D-CS-M7680-0-1		DEC PAK INDEX SECTOR (C.S.)	REF												
2	D-AH-M7680-0-5		ASSY/DRILLING HOLE LAYOUT	REF												
3	B-MH-M7680-0-6		MODULE ECO HISTORY	REF												
4	5012018		ETCHED CIRCUIT BOARD	1												
5	1005306-00		CAP 6.8UF 35V 20% S.TANT	2												C20,C21
6	1000016-00		CAP 100PF 100V 5% D.M.	2												C27,C28
7	1000023-00		CAP 330PF 100V 5% D.M.	2												C23,C30
8	1000024-00		CAP 470PF 100V 5% D.M.	1												C29
9	1001610-01		CAP .01UF 100V DISC	22												C1 THRU C19, C26,C31,C32
10	1001776-00		CAP 1.0UF 35V 10% S.TANT	1												C25
11	1002180-00		CAP .15UF 35V 20% S.TANT	1												C24
12	1005784-00		CAP .01UF 100V 10% MYLAR	1												C22
13	1101938-00		DIODE 1N4370A VZ 2.4 5%	1												D3
14	1210042-00		SWITCH ROTARY 8 POS	1												S1
15	1300365-00		RES 1K 1/4W 5%	3												R5,R16,R17
16	1300229-00		RES 100 1/4W 5%	1												R1
17	1300250-00		RES 150 1/4W 5%	1												R12
18	1300295-00		RES 330 1/4W 5%	2												R4,R10
19	1300447-00		RES 4.7K 1/4W 5%	1												R2

E.C.O. NO.

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**TITLE**  
DEC PAK INDEX SECTOR

**ASSY NO.**  
D-UA-M7680-0-0

**SIZE** B **CODE** PL **NUMBER** M7680-0-0

**REV.** A

**SHEET 1 OF 3**

**DIST.**

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:		
PARTS LIST			ETCH REV B													
MADE BY K. HODGSON		CHECKED <i>H. VanDyke</i>														
DATE 3 FEB 76		DATE 3 FEB 76														
ENG <i>Joseph J. Bernadino</i>		PROD <i>Jack Szaboluk</i>														
DATE 25 FEB 76		DATE 25 FEB 76														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION											REF. DESIGNATION		
20	1300479-00		RES 10K 1/4W 5%	3												R3,R7,R18
21	1301401-00		RES 750, 1/4W 5%	1												R11
22	1301808-00		RES 22K 1/4W 5%	1												R9
23	1309143-00		RES 10K 3/4W 10% POT	1												R6
24	1302394-00		RES 30K 1/4W 5%	3												R14,R15,R8
25	1302465-00		RES 18K 1/4W 5%	1												R13
26	1502762-01		TRANSISTOR 3639C	1												Q1
27	1905547-00		IC 7474	1												E21
28	1905575-00		IC 7400	2												E15,E16
29	1905576-00		IC 7410	1												E14
30	1909054-00		IC 7493	2												E8,E9
31	1911469-00		IC 8640	2												E19,E23
32	1909686-00		IC 7404	1												E18
33	1910047-00		IC 74145	1												E20
34	1910230-00		IC 74121	1												E11
35	1910645-00		IC 75452	7												E1 THRU E3,E6,E7,E12,E13
36	1910436-00		IC 74123	3												E17,E22,E25
37	1905590-00		IC 7401	1												E24
38	1909004-00		IC 7402	1												E5

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				SHEET 2 OF 3				DIST.											

**DIGITAL EQUIPMENT CORPORATION**

**PARTS LIST**

ETCH REV B

MADE BY K. HODGSON  
 DATE 3 FEB 76  
 ENG *Joseph Rivarolo*  
 DATE 15 FEB 76

CHECKED *H. Vankjian*  
 DATE 3 FEB 76  
 PROD *Jack Szvalcik*  
 DATE 25 FEB 76

SECTION  
 ISSUED SECTION

QUANTITY / VARIATION

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION										REF. DESIGNATION		
39	1910878-00		IC 7427	1												E4
40	1211164-00		SWITCH 4 IN A DIP	1												SW1
41	9008337-06		HANDLE FLIP CHIP-MAGENTA	2												
42	9006732-00		EYELET	4												
43			SPARE IC													E10

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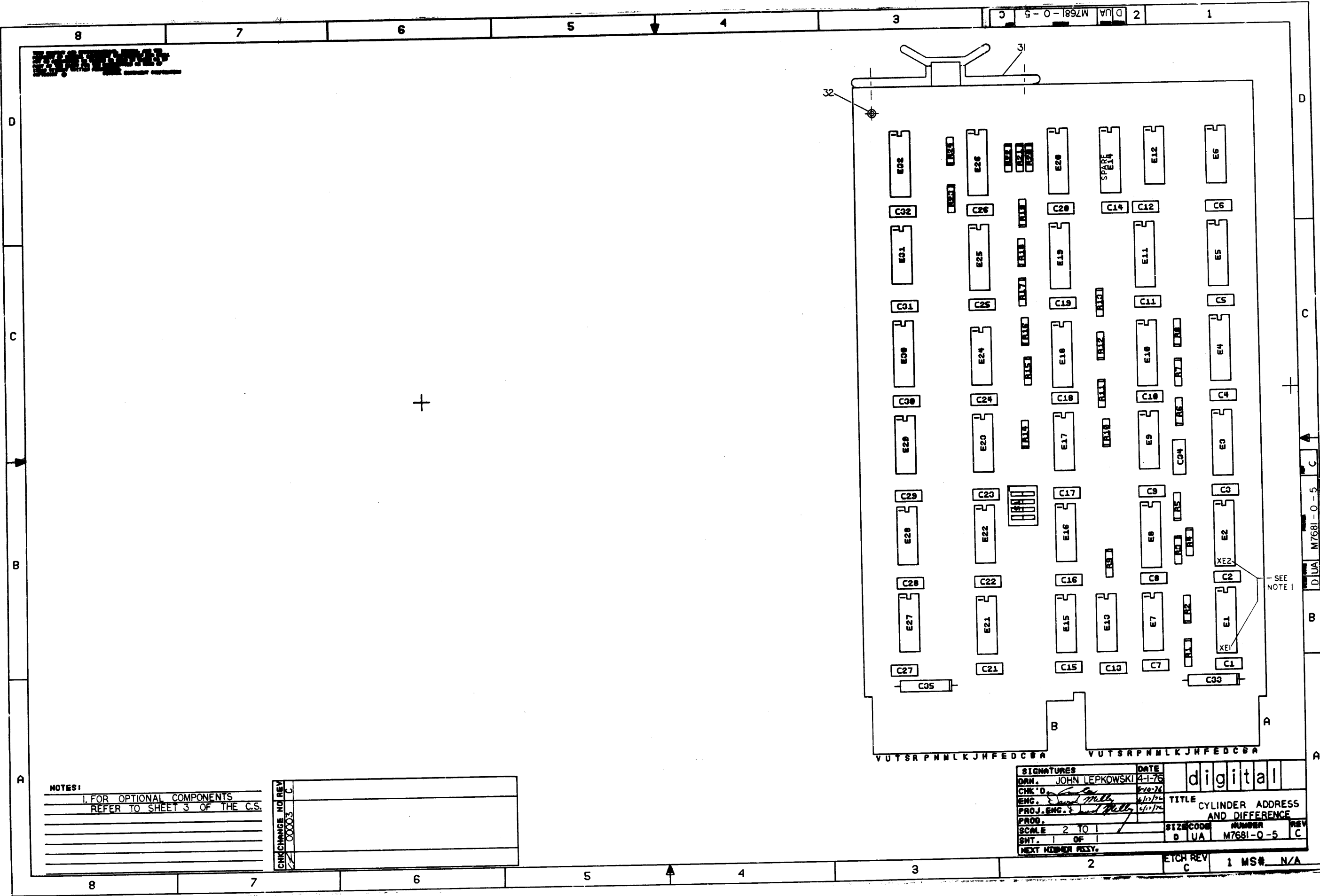
TITLE: DEC PAK INDEX SECTOR

ASSY NO.: D-UA-M7680-0-0

SHEET 3 OF 3

SIZE: B CODE: PL NUMBER: M7680-0-0 REV: A

DIST.



NOTES:  
 1. FOR OPTIONAL COMPONENTS  
 REFER TO SHEET 3 OF THE C.S.

CHANGE NO	REV
00003	C

SIGNATURES		DATE	digital
DRN. JOHN LEPKOWSKI		4-1-76	
CHK'D		8-10-76	TITLE CYLINDER ADDRESS AND DIFFERENCE
ENG. <i>David Kelly</i>		6/10/76	
PROJ. ENG. <i>David Kelly</i>		6/10/76	SIZE CODE NUMBER REV 0 UA M7681-O-5 C
SCALE 2 TO 1			
SHT. OF			ETCH REV C 1 MS# N/A
NEXT NUMBER ASSY.			

SEE NOTE 1

# DIGITAL EQUIPMENT CORPORATION

## PARTS LIST

ETCH REV C

MADE BY Lora Metzger  
 DATE 2/2/76  
 ENG  
 DATE

CHECKED *H. Washburn*  
 DATE 4 FEB 76  
 MOD *Jack Papalick*  
 DATE 25 FEB 76

SECTION

ISSUED SECTION

### QUANTITY / VARIATION

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY	VARIATION	REF. DESIGNATION
1	D-CS-M7681-0-1		CYLINDER ADDRESS AND DIFFERENCE (C.S)	REF		
2	D-AH-M7681-0-5		ASSY/DRILLING HOLE LAYOUT	REF		
3	B-MH-M7681-0-6		MODULE ECO HISTORY	REF		
4	5012044		ETCH CIRCUIT BOARD	1		
5	1000009-00		CAP 33PF 100V 5% DM	1		C34
6	1001610-01		CAP .01UF 100V DISC	32		C1 THRU C32
7	1005306-00		CAP 6.8UF 35V 10% S.TANT	2		C33,C35
8	1300365-00		RES 1K 1/4W 5%	21		R1 THRU R5,R9 THRU R24
9	1300295-00		RES 330 1/4W 5%	1		R7
10	1301401-00		RES 750 1/4W 5%	1		R8
11	1301874-00		RES 5.6K 1/4W 5%	1		R6
12	1905547-00		IC 7474	2		E13,E29
13	1905575-00		IC 7400	2		E21,E22
14	1909004-00		IC 7402	2		E17,E28
15	1909686-00		IC 7404	2		E15,E23
16	1909928-00		IC 7416	1		E7
17	1909932-00		IC 7483	3		E4,E10,E26
18	1910011-00		IC 7486	3		E6,E9,E12
19	1910018-00		IC 74193	3		E5,E11,E25

E.C.O. NO.  
00002  
00003

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TITLE  
CYLINDER ADDRESS AND DIFFERENCE

ASSY NO.  
D-UA-M7681-0-0  
SHEET 1 OF 2

SIZE CODE  
B PL  
NUMBER  
M7681-0-0  
DST.

REV.  
C

**DIGITAL EQUIPMENT CORPORATION**

**PARTS LIST**

ETCH REV C

MADE BY Lora Metzger  
 DATE 2/2/76  
 ENG  
 DATE 25 FEB 76

CHECKED *H. Vanhijian*  
 DATE 4 FEB 76  
 PROD *Jack Fogale*  
 DATE 25 FEB 76

SECTION  
 ISSUED SECTION

QUANTITY / VARIATION

NOTES:

REF. DESIGNATION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY	VAR	REF. DESIGNATION
20	1910155-00		IC 7408	1		E24
21	1910436-00		IC 74123	1		E3
22	1910651-00		IC 74175	2		E30, E32
23	1910655-00		IC 74157	1		E8
24	1910878-00		IC 7427	1		E16
25	1911469-00		IC 8640	2		E27, E31
26	23138A1-00		IC 8223	1		E18,
27	23139A1-00		IC 8223 (NOT TO BE INSERTED)	1		E1,
28			IC (SPARE)			E14, E2
29	1211164-00		SW, RKR 4 IN A DIP	1		S1
30	1211813-02		SOCKET IC 16 PIN	2		XE1, XE2
31	9008337-06		HANDLE, FLIP-CHIP, MAGENTA	2		
32	9006732-00		EYELET	4		
33	23137A1-00		IC	1		E19
34	23136A1-00		IC	1		E20
35	<del>3105140-55</del>		<del>WIRE, #30 AWG, GRN</del>	<del>AR</del>		

E.C.O. NO.

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TITLE  
 CYLINDER ADDRESS AND DIFFERENCE

ASSY NO.  
 D-UA-M7681-0-0

SIZE  
**B PL**

NUMBER  
 M7681-0-0

REV.  
**C**

SHEET 2 OF 2

DIST.