

**RK05  
disk drive  
engineering drawings**

*R. Tinga,  
23701.*

digital equipment corporation • maynard, massachusetts

**CUSTOMER PRINT SET INDEX**

THIS IS PRINT SET

SEQUENCE	SEQUENCE	SEQUENCE
DRAWING DIRECTORY	E-DD-RK05-0 SHEET #1 ONLY <input type="checkbox"/>	MFG. PRINT SET
MODULE UTILIZATION LIST	C-MU-RK05-0-2	
READ/WRITE	D-CS-G180-0-1	
INDEX SECTOR	D-CS-M7700-0-1	MODULE UTILIZATION (PL)
CONTROL & INTERLOCK	D-CS-M7702-0-1	RK05 TESTER
TRACK ADDRESS DIFFERENCE	D-CS-M7701-0-1	DECPACK ASSY
POSITION SERVO PREAMP	D-CS-G938-0-1	DECPACK ASSY (PL)
SERVO POWER AMP CIRCUIT	D-CS-H004-0-1	WIRED ASSY
SERVO POWER AMP	E-UA-H604-0-0	LINEAR POSITIONER ASSY.
CONTROL PANEL CIRCUIT	D-CS-5409698-0-1	LINEAR POSITIONER ASSY (PL)
CONTROL PANEL	E-IA-5409698-0-0	H743 POWER SUPPLY
RELAY BOARD CIRCUIT	D-CS-5409574-0-1	
DECPACK MOTOR RELAYS	E-IA-5409574-0-0	
CHASSIS WIRING	D-BD-RK05-0-1	
ACCESSORY LIST	A-AL-RK05-0-17	
POWER SUPPLY (H743)	B-DD-H743-0	
WIRE LIST	K-WL-RK05-0-3	

UNIT VARIATIONS		PRINT SET TYPE			
VARIATION	TITLE	RK05-0			
RK05-AA	DECPACK 115V 60HZ	X			
RK05-AB	DECPACK 230V 60HZ	X			
RK05-BA	DECPACK 115V 50HZ	X			
RK05-BB	DECPACK 230V 50HZ	X			
RK05-CA	RK05-AA, H967				
RK05-CD	RK05-BB, H967				
RK05-DE	RK05-AA, H960, 861 POWER CONTROL				
RK05-DF	RK05-AB, H960, 861				
RK05-DH	RK05-BA, H960, 861				
RK05-DJ	RK05-BB, H960, 861				

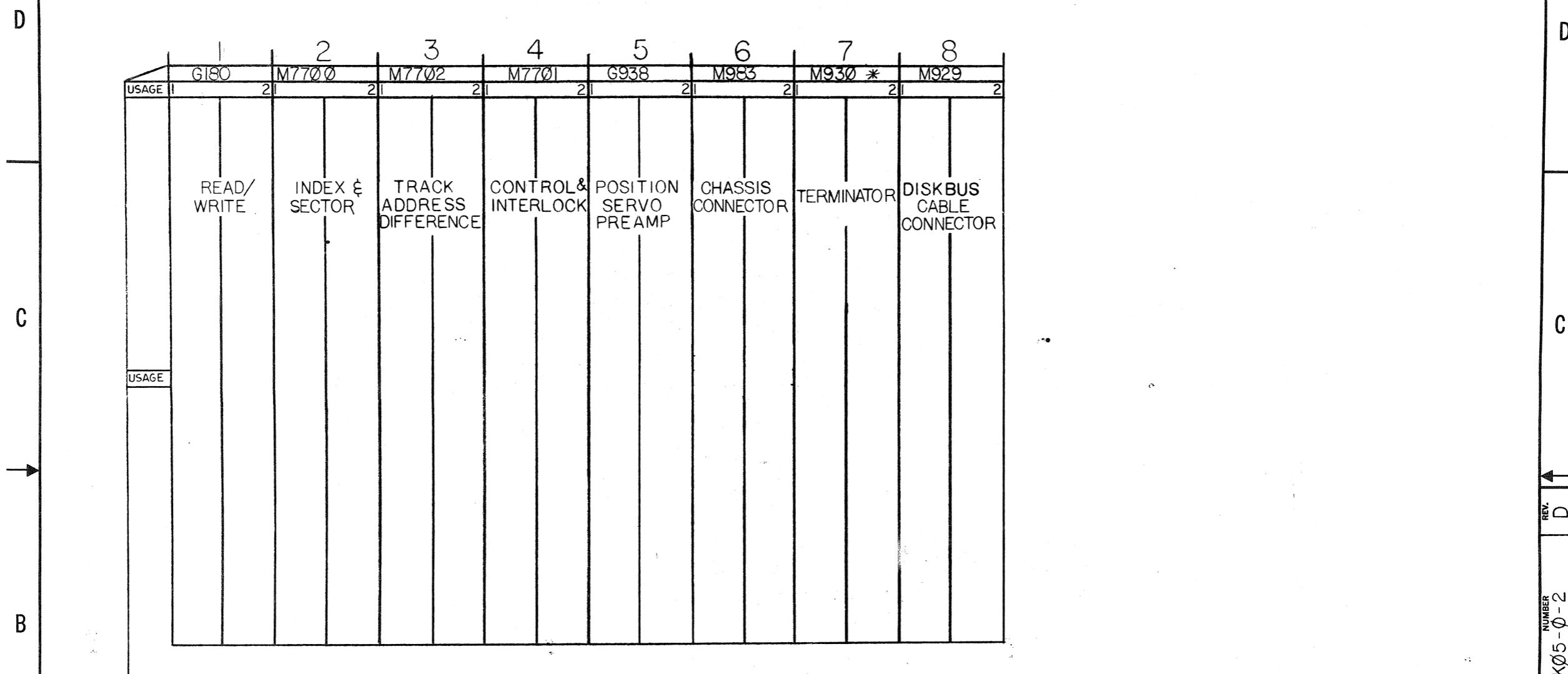
REVISES	CHG. NO.		REV
	DATE	NO.	
		RK05-14	A
		RK05-16	B
		RK05-23	C
		RK05-26	D
		RK05-28	E
		RK05-30	F
		RK05-31	H
		RK05-32	J
		RK05-34	K
		RK05-35	L
		RK05-38	M
		RK05-39	N
		RK05-40	P
		RK05-41	R
		RK05-42	S
		RK05-45	T
		RK05-46	U
		RK05-48	V
		RK05-50	W
		RK05-51	Y
		RK05-52	Z
		RK05-53	AA
		RK05-54	AB
		RK05-55	AC
		RK05-56	AD

USED ON OPTION/MODEL	DRN.	DATE	TITLE
	J. FLEMING	1/26/72	DECPACK ASSY
	<i>J. Fleming</i>	5-2-72	
	<i>J. Fleming</i>	5/2/72	
	<i>J. Fleming</i>	5/4/72	
	<i>J. Fleming</i>	5/4/72	
	<i>J. Fleming</i>	5/4/72	

SIZE	CODE	NUMBER	REV.
B	DD	RK05-0	AD

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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.

CHK	CHANGE NO.	REV.
	RK05-00002	A
		1-1-72
		1-1-72
		2-9-72
		3-11-72
		3-25-72
		7-7-73

REVISIONS

D. JENSEN  
G. SCHNEIDER  
E. ALLAIN  
G. SCHNEIDER

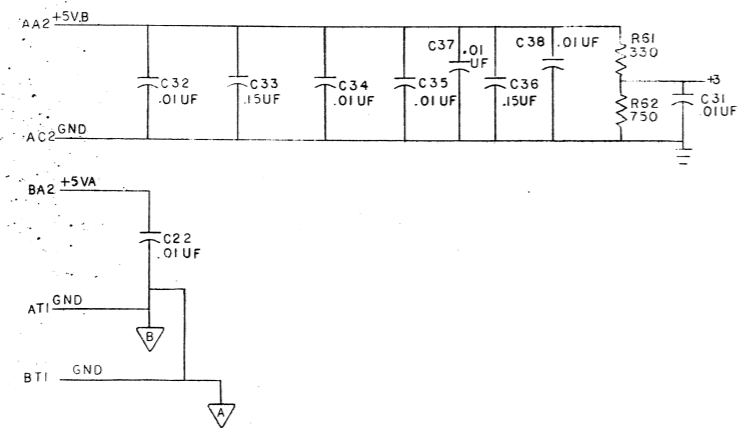
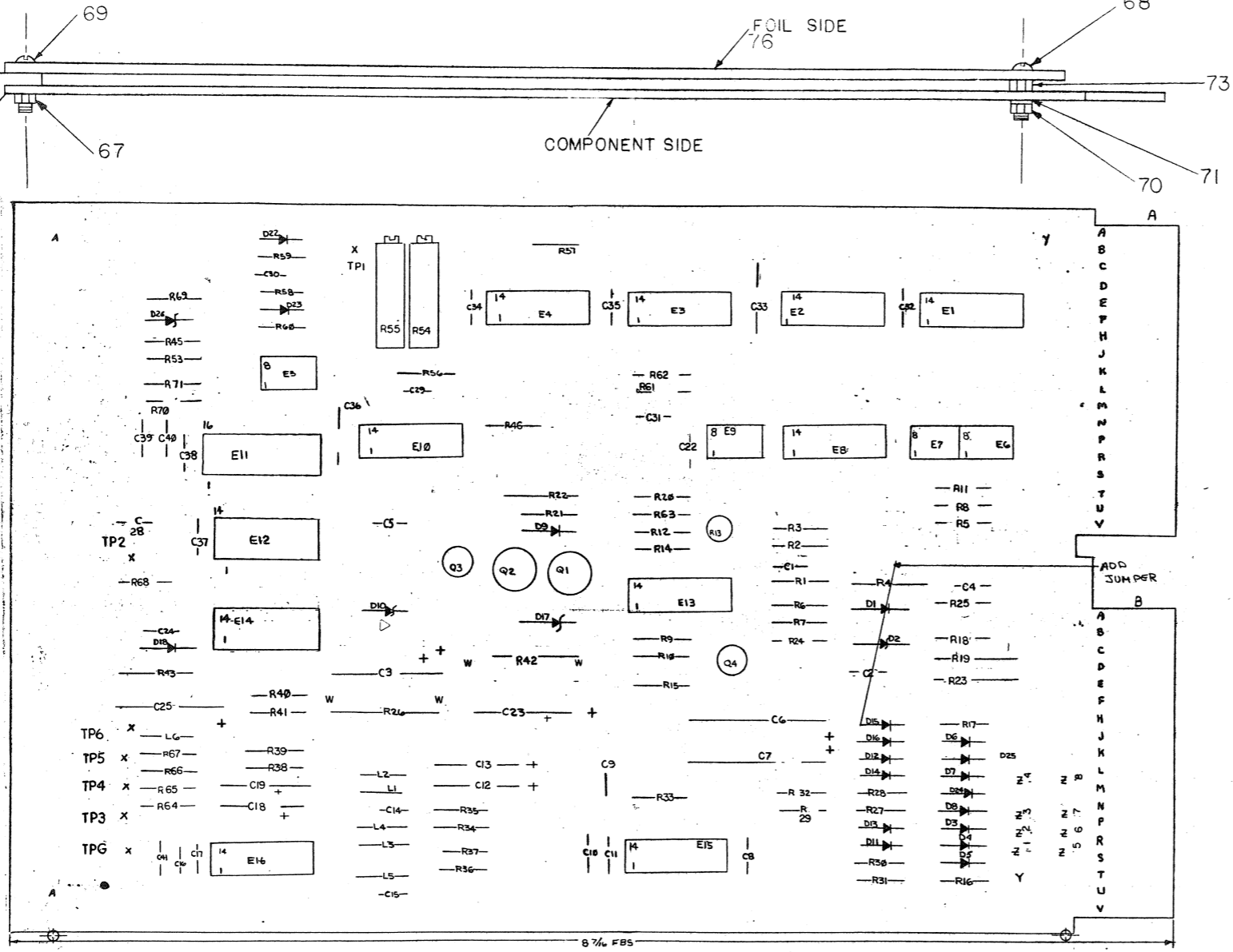
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRM <i>D. Schmidt</i>	DATE 11-2-71	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE MODULE UTILIZATION
DECIMALS		CHK'D <i>J. T. Conroy</i>	DATE 11-9-71	
ANGLES		ENG. <i>John W. Jensen</i>	DATE 24 Nov 71	
.XXX = .005 .XX = .02 .X = .1		PROJ. ENG. <i>C. L. Summers</i>	DATE 11-24-71	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. <i>D. A. Silver</i>	DATE 11-4-71	
MATERIAL	++	NEXT HIGHER ASSY.		
FINISH	++	B-DD-RK05-0	SIZE CODE C MU	NUMBER RK05-0-2
SHEET		OF	DIST.	REV. D

REV. D  
NUMBER RK05-0-2  
SIZE CODE C MU

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**NOTES:**

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



DEC 380	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		

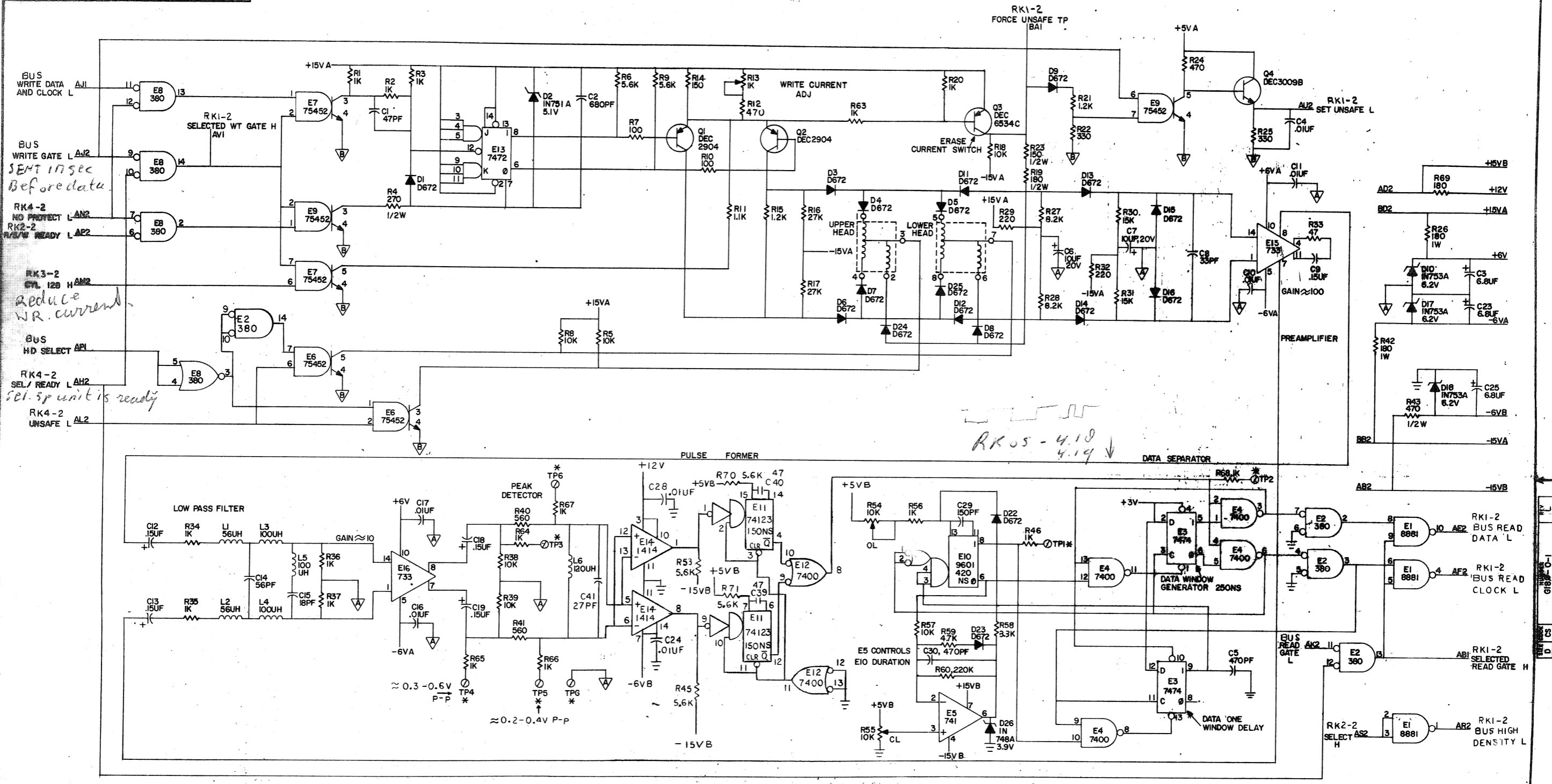
1	D26	DIODE IN748A (3.9V ZENER)	1100122	79
1	R69	RES. 180 1/4W 5%	1301322	78
2	R7,R10	RES. 100 1/4W 5%	1300229	77
1		NOISE SHIELD	5009893	76
2		HANDLE,FLIP CHIP-GREEN	9008337-01	75
7	TP6,TP1 THRU TP6	SWAGE LUG	9007791	74
2		HEX NUT,NYLON,*2-56	9007263	73
2		EYELET *6S4-7	9006732	72
2		INTERNAL LOCK WASHER *2-56	9006631	71
2		HEX NUT *2-56	9006555	70
2		SCREW 4/40X3/8	9006011-4	69
2		SCREW PAN HD *2-56X5/16	9006002-1	68
2		KEP NUT 4/40	9006557	67

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 8881	1909705	62
2	E2,E8	I.C. DEC 380	1909485	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
			50	
1	R13	POT. 1K 1/2W 20% 62PR	1309150-03	49
2	R54,55	POT. 10K 3/4W 10% 76PR	1309143-10	48
2	R16,R17	RES. 27K 1/4W 5%	1305346	47
2	R27,R28	RES. 6.2K 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
8	R5,8,18,39,39,57	RES. 10K 1/4W 5%	1300479	36
1	R59	RES. 4.7K 1/4W 5%	1300447	35
1	E11	I.C. DEC 7113	1301436	34
16	R1,R2,R3,R20,R34-37	RES. 1K 1/4W 5%	1300365	33
	R46,R56,R63-68			
2	R24,R14	RES. 470 1/4W 5%	1300316	31
1	R43	RES. 470 1/2W 5%	1300315	30
3	R22,R25,R61	RES. 33K 1/4W 5%	1300295	29
2	R29,R32	RES. 220 1/4W 5%	1300271	28
2	R26,R42	RES. 160 1/4W 5%	1300262	27
1	R19	RES. 10K 1/4W 5%	1300260	26
1	R12	RES. 150 1/4W 5%	1300250	25
1	R23	RES. 150 1/4W 5%	1300249	24
1	R33	RES. 47 1/4W 5%	1300202	23
8	I-B	GOLD WIREWRAP PINS	1210385-1	22
18	D103-9,D11-16,D22-25	DIODE D672	1105275	21
1	D2	DIODE IN 751A (5.1V ZENER)	1109994	20
			19	
3	D10,D17,D18	DIODE IN 753A (6.2V ZENER)	1102421	18
13	C9,C33,C36	CAP. 15UF 50V 10% POLYCARBON	1010031	17
1	C15	CAP. 18PF 100V 5% D.M.	1002608	16
4	C12,C13,C18,C19	CAP. 15UF 35V 20% S. TANT	1002180	15
14	C410,11,16,17,22,24,28,31	CAP. .01UF 100V 20% DISC	1001610	14
	32,34,35,37,38			
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.	1001739	8
1	C14	CAP. 56PF 100V 5% D.M.	1000012	7
3	C1,C39,C40	CAP. 47PF 100V 5% D.M.	1000011	6
1	C8	CAP. 33PF 100V 5% D.M.	1000009	5
		ETCHED CIRCUIT BOARD	5009743	4
		MODULE ECO HISTORY	B-MH-G180-0-6	3
		ASSY. DRILLING HOLE LAYOUT	E-AH-G180-0-5	2
		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				
DRN. R. DOUCETTE		DATE 10-22-71	 TITLE DEC PACK READ/ WRITE	
CHK'D. NANCY MADRE		DATE 11-30-71		
ENG. DALE JENSEN		DATE 1-22-72		
PROJ. ENG. A. KARLSBERG		DATE 1-22-72		
PROD.		DATE		
NEXT HIGHER ASSY				
2N2904	2N2118A	IN746A	SAME	SIZE CODE DCS NUMBER G180-0-1 REV. L
DEC 3009B	2N3009	IN753A	SAME	
DEC 6534C	MPS6534	IN751A	SAME	
		D672	IN3653	
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SCALE SHEET 1 OF 2		DIST.		

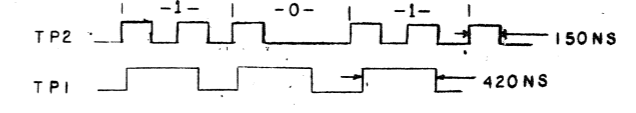
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1-0-0910 50 0



*Handwritten notes:*  
 BUS WRITE DATA AND CLOCK L  
 BUS WRITE GATE L  
 SENT 17 sec before data  
 RK4-2 NO PROTECT L  
 RK2-2 READY L  
 RK3-2 SWL 128 H  
 Reduce WR current  
 BUS HD SELECT APL  
 RK4-2 SEL/READY L  
 sel. sp unit is ready  
 RK4-2 UNSAFE L

*Handwritten note:* RK05-4.19 4.19



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

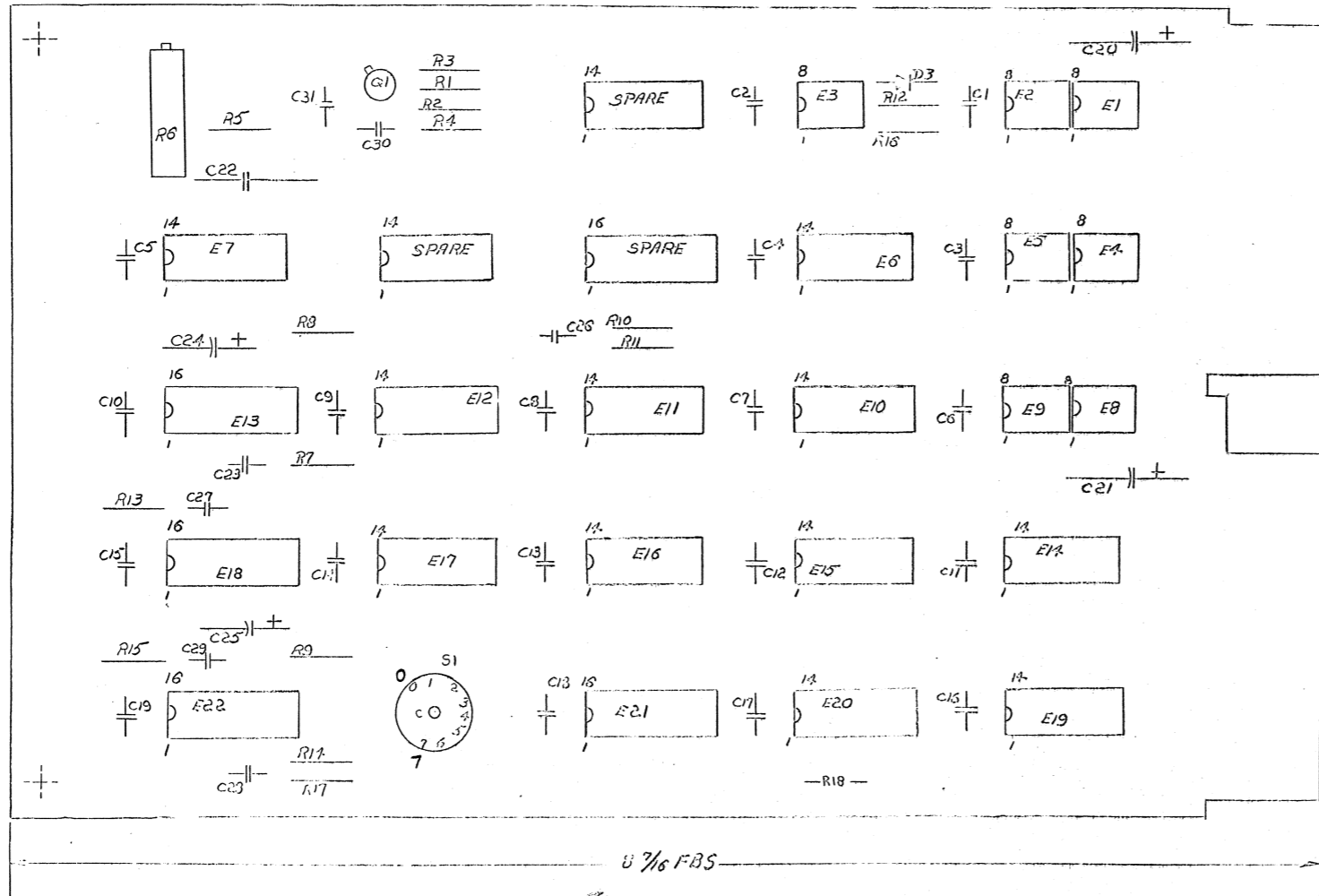
SLOT-1

REV	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE
		DEC	EIA	DEC	EIA	
1	12/18/71	2N2904	2N2904	IN753A	IN753A	DEC PACK READ/WRITE RK1-2
2	1/15/72	2N2904	2N2904	IN753A	IN753A	
3	1/15/72	2N2904	2N2904	IN753A	IN753A	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
4	1/15/72	2N2904	2N2904	IN753A	IN753A	

SIZE D CS NUMBER G10-0-1  
 PRINTED CIRCUIT REV. L

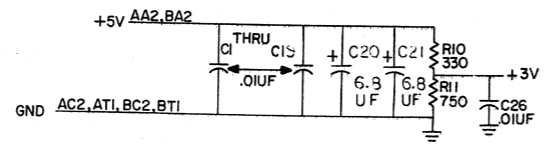
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1-0-0022W SD Q 1003 12/5



A B O D E F I J K L M N P Q R S T U V

NOTES:  
 PIN 7 = GND ON E2, E5, E7, E11, E13  
 PIN 4 = +5V ON E14, E17, E20, E21, E23  
 PIN 4 = GND ON E1, E3, E4, E9,  
 PIN 8 = +5V ON E10, E15, E16  
 PIN 10 = GND ON E8, E12  
 PIN 5 = +5V  
 PIN 1 = GND ON E22  
 PIN 8 = +5V  
 PIN 8 = GND ON E6, E18, E19  
 PIN 16 = +5V



QTY	REP. DESIGNATION	DESCRIPTION	DEC PART NO.	REV
2	C20, 21	CAP. 6.8UF 35V 20%	1000067	40
1	R6	RESISTOR 4.7K 1/4W 5%	1300447	38
1	C22	CAP. 0.01UF 100V 10% MYLAR	1005784	38
2		HANDLE, FLIP CHIP - MAGENTA	9008337-06	37
4		SOLET		
1	E20	I.C. DEC 7401	9006732	35
3	E13, 16, 22	I.C. DEC 74123	1905590	34
7	E1-E8, E9, E9	I.C. DEC 74152	1910645	32
1	E7	I.C. DEC 74121	1910230	31
1	E21	I.C. DEC 74145	1910047	30
1	E14	I.C. DEC 74104	1909686	29
2	E15, 19	I.C. DEC 380	1909485	28
2	E6, 11	I.C. DEC 7493	1909054	27
1	E10	I.C. DEC 7410	1905576	26
2	E12, 16	I.C. DEC 7400	1905575	25
1	E17	I.C. DEC 7474	1905547	24
1	D1	TRANSISTOR DEC 3639C	1502762-01	23
1	R13	RES. 18K 1/4W 5%	1302465	22
3	R14, 15, 8	RES. 30K 1/4W 5%	1302394	21
1	R6	POT. 10K 3/4W 10%	1309143-10	20
1	R9	RES. 22K 1/4W 5%	1301808	19
1	R11	RES. 750 1/4W 5%	1301401	18
3	R3, R7, R18	RES. 10K 1/4W 5%	1300479	17
2	R4, 10	RES. 130 1/4W 5%	1300295	16
1	R12	RES. 150 1/4W 5%	1300250	15
1	R1	RES. 100 1/4W 5%	1300229	14
1	S1	SWITCH ROTARY 8 POS	1210042	13
1	D3	DIODE AZ5 (2.4)	1101938	12
1	R5, 16, 17	RES. 1K 1/4W 5%	1300265	11
1	C24	CAP. 1.5UF 35V 20% S.TANT	1002180	10
1	C25	CAP. 1.0UF 35V 10% S.TANT	1001776	9
2F	C1 thru C19, C26, C31	CAP. .01UF 100V 20% DISC	1001610	8
1	C29	CAP. 470PF 100V 5% D.M.	1000024	7
2	C23, C30	CAP. 330PF 100V 5% D.M.	1000023	6
2	C28, 27	CAP. 100PF 100V 5% D.M.	1000016	5
1		ETCHED CIRCUIT BOARD	5009716	4
		MODULE MFG HISTORY	B-MH-M7700-0-6	3
		ASSY/DRILLING HOLE LAYOUT	E-MH-M7700-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-00-M7700-0-4	1
		PARTS LIST	DEC PART NO.	REV

NUMBER M7700-0-1  
REV D

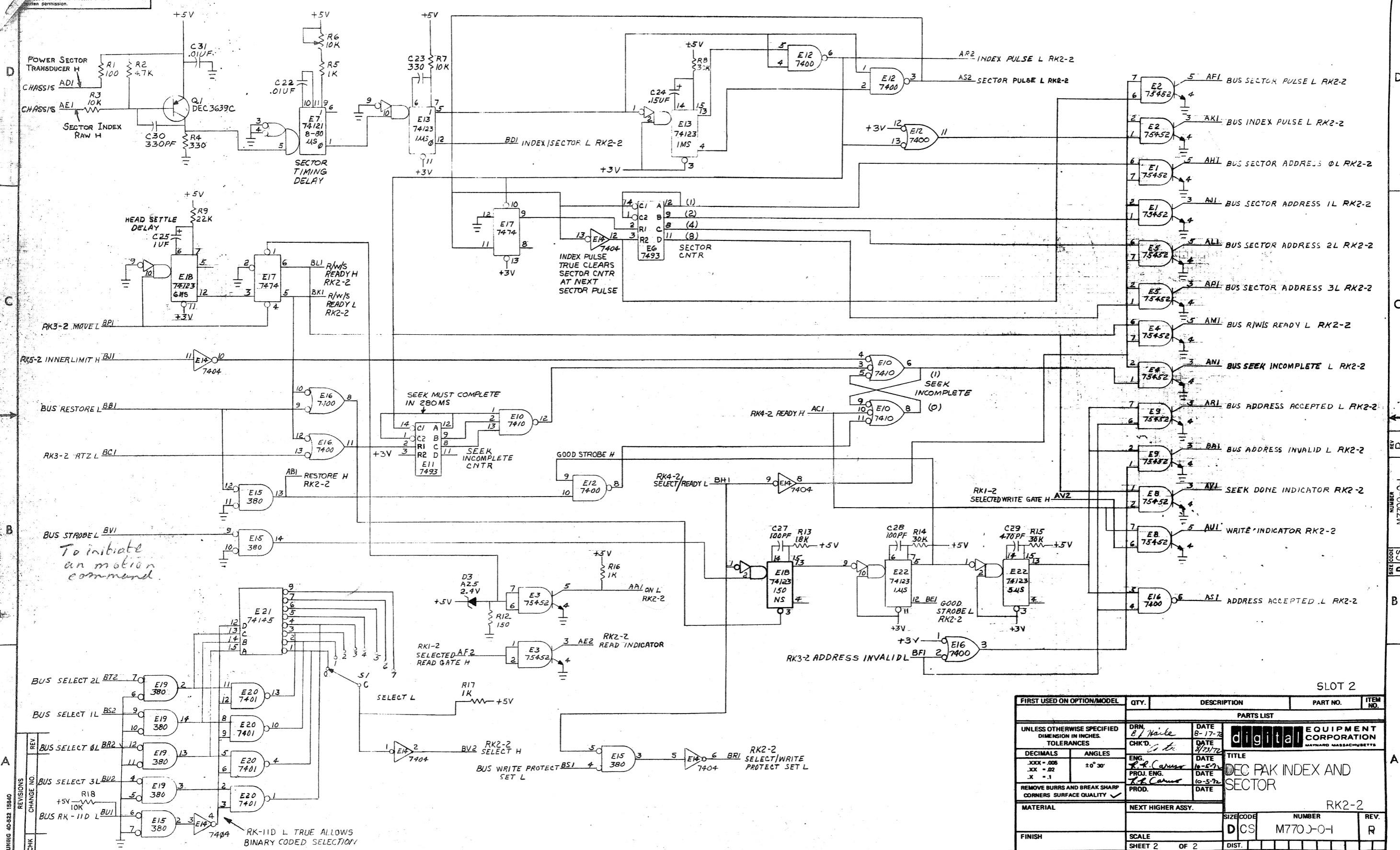
REV	DATE	BY	CHKD
1	11/27/71	W. H. B.	
2	12/2/71	W. H. B.	
3	12/2/71	W. H. B.	
4	12/2/71	W. H. B.	
5	12/2/71	W. H. B.	
6	12/2/71	W. H. B.	
7	12/2/71	W. H. B.	
8	12/2/71	W. H. B.	
9	12/2/71	W. H. B.	
10	12/2/71	W. H. B.	
11	12/2/71	W. H. B.	
12	12/2/71	W. H. B.	
13	12/2/71	W. H. B.	
14	12/2/71	W. H. B.	
15	12/2/71	W. H. B.	
16	12/2/71	W. H. B.	
17	12/2/71	W. H. B.	
18	12/2/71	W. H. B.	
19	12/2/71	W. H. B.	
20	12/2/71	W. H. B.	
21	12/2/71	W. H. B.	
22	12/2/71	W. H. B.	
23	12/2/71	W. H. B.	
24	12/2/71	W. H. B.	
25	12/2/71	W. H. B.	
26	12/2/71	W. H. B.	
27	12/2/71	W. H. B.	
28	12/2/71	W. H. B.	
29	12/2/71	W. H. B.	
30	12/2/71	W. H. B.	
31	12/2/71	W. H. B.	
32	12/2/71	W. H. B.	
33	12/2/71	W. H. B.	
34	12/2/71	W. H. B.	
35	12/2/71	W. H. B.	
36	12/2/71	W. H. B.	
37	12/2/71	W. H. B.	
38	12/2/71	W. H. B.	
39	12/2/71	W. H. B.	
40	12/2/71	W. H. B.	

TRANSISTOR AND DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN5608		
DEC6331	MP56331		
AZ9(2.4V)	IN4370		

digital EQUIPMENT CORPORATION  
 TITLE: DEC PAK INDEX AND SECTOR  
 SIZE: D CS  
 NUMBER: M7700-0-1  
 REV: D  
 PRINTED CIRCUIT REV: K

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To initiate an motion command.

REV	CHG	NO.	DESCRIPTION
1			

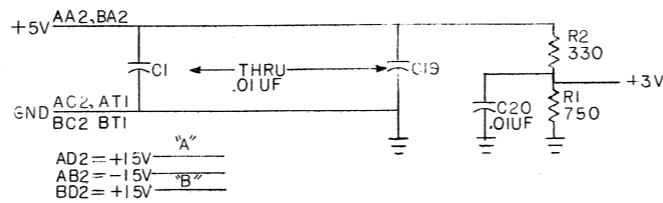
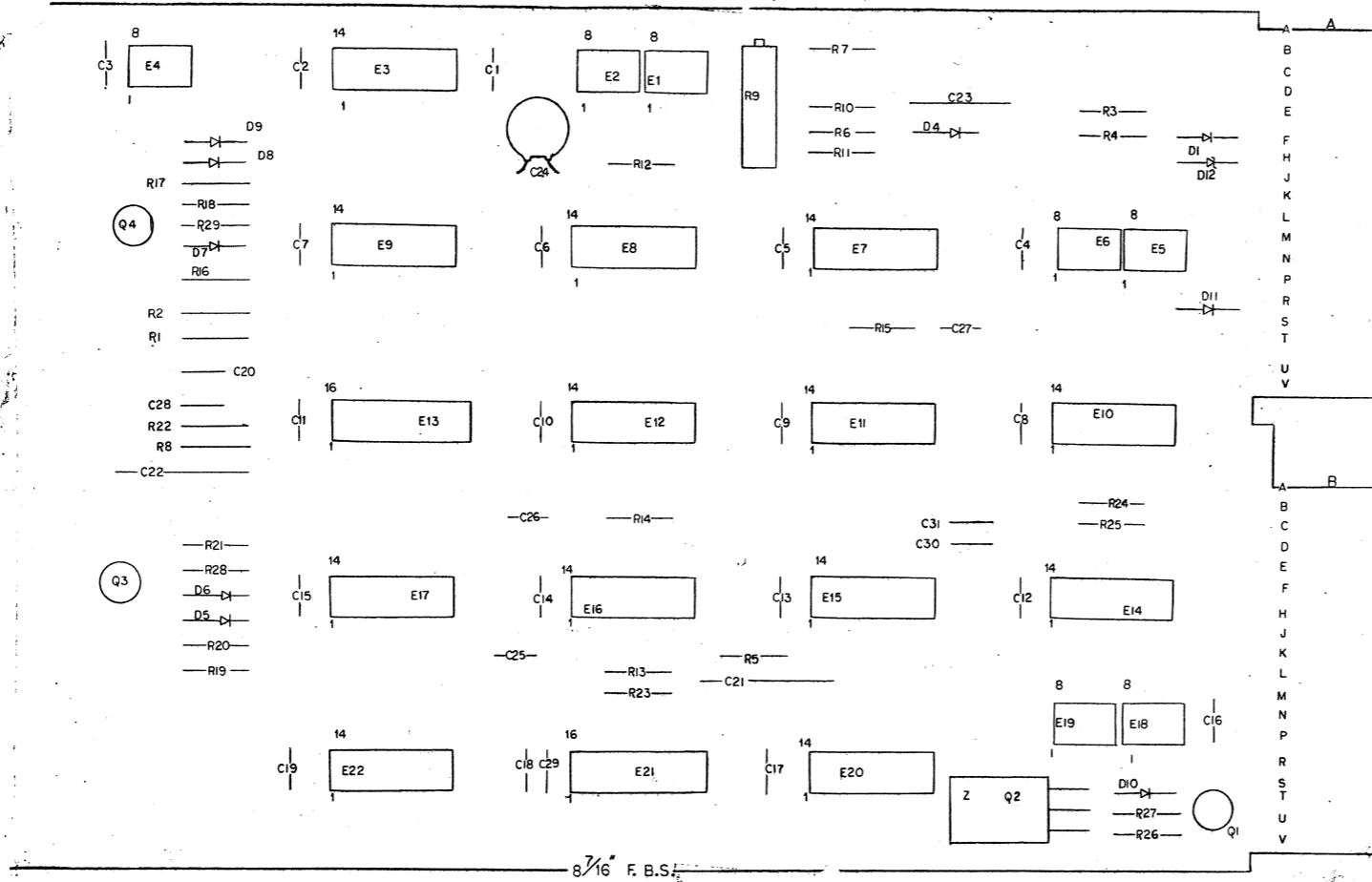
BRUNING 40-323 15840  
DEC FORM NO DRD 102-B

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN E. J. Waite	DATE 8-17-72	DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'D S. D.	DATE 3/21/72	TITLE DEC PAK INDEX AND SECTOR	
ANGLES	ENG. R. R. Caruso	DATE 10-5-72	RK2-2	
.XXX - .000	PROJ. ENG. R. R. Caruso	DATE 10-5-72	SIZE CODE D CS	
.X - .1	PROD.	DATE	NUMBER M7700-0-1	
MATERIAL	NEXT HIGHER ASSY.		REV. R	
FINISH	SCALE		SHEET 2 OF 2	
			DIST.	

REV D  
NUMBER M7700-0-1  
REV C  
REV B

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NOTES:



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

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	C24	CAP. .047UF 16V DISC	1009678	50
1	D12	DIODE IN5246B 18V 5%	1110766	49
1		KEP NUT #4	9006557	48
1		SCREW 4-40 X 5/16	9006010-1	47
2		HANDLE, FLIP CHIP-MAGENTA	9008337-06	46
4		EYELET #GS4-7	9006732	45
1	E1	I.C. DEC 301	1910282	44
6	E2,4,6,5,18,19	I.C. DEC 75451	1910406	43
2	E21, E13	I.C. DEC 74123	1910436	42
2	E22, E17	I.C. DEC 7493	1909054	41
2	E9, E15	I.C. DEC 7474	1905547	40
2	E12,10	I.C. DEC 7410	1905576	39
2	E11, E8	I.C. DEC 7404	1909686	38
1	E20	I.C. DEC 7402	1909004	37
4	E3,7,16,14	I.C. DEC 7400	1905575	36
1	Q2	TRANSISTOR DEC 4403	1510171	35
1	Q3	TRANSISTOR DEC 6534D	1503409-00	34
1	Q1	TRANSISTOR DEC 2219	1501881	33
1	Q4	TRANSISTOR DEC 6531	1509338	32
1	R9	RES. 10K 3/4W 10% 76PR	1309143-10	31
1	R6	RES. 10M 1/4W 5%	1302666	30
2	R7,R10	RES. 1M 1/4W 5%	1309595	29
				28
				27
5	R17,5,22,23,8	RES. 10K 1/4W 5%	1300479	26
1	R18	RES. 5.6K 1/4W 5%	1301874	25
1	R11	RES. 4.7K 1/4W 5%	1300447	24
1	R4	RES. 680 1/4W 5%	1300424	23
1	R28	RES. 1.5K 1/4W 5%	1300391	22
9	R12,13,14,15,20,24,25,26,29	RES. 1K 1/4W 5%	1300365	21
1	R1	RES. 750 1/4W 5%	1301401	20
2	R16,R19	RES. 470 1/4W 5%	1300316	19
2	R2,R3	RES. 330 1/4W 5%	1300295	18
1	R27	RES. 100 1/4W 5%	1300229	17
A/R		GRIPLETS	1210244-0	16
2	D5,D7	DIODE IN759A 12V 5%	1110643	15
1	D4	DIODE IN748 3.9V 10%	1100121	14
1	D6	DIODE IN746A 3.3V 5%	1104860	13
3	D9,D10,D11	DIODE IN4001	1102942	12
1	D1	DIODE D670	1102162	11
1	D8	DIODE D664	1100114	10
2	C28,C29	CAP. 470PF 100V 5%DM	1000024	9
1	C23	CAP. .15UF 35V 20%TANT	1002180	8
1	C22	CAP. 10UF 20V 10%TANT	1004813	7
1	C21	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	B-MH-M7701-0-6	3
		ASSY/DRILLING HOLE LAYOUT	E-AH-M7701-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-CO-M7701-0-4	1

FIRST USED ON OPTION MODEL				PARTS LIST			
ETCH BOARD REV.	K	DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE	SHEET
IN748 3.9V	SAME	DEC 6534D	MPS6534				1
IN746A 3.3V	SAME	DEC 4403					2
IN4001	SAME	IN759A	SAME				3
D670	IN3653						4
DEC6531	MPS6531						5
DEC664	IN3606						6
DEC2219	2N2219						7
DEC NO.	EIA NO.	DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE	SHEET
							1

**digital**

TITLE DISK ENG. CONTROL + INTERLOCK

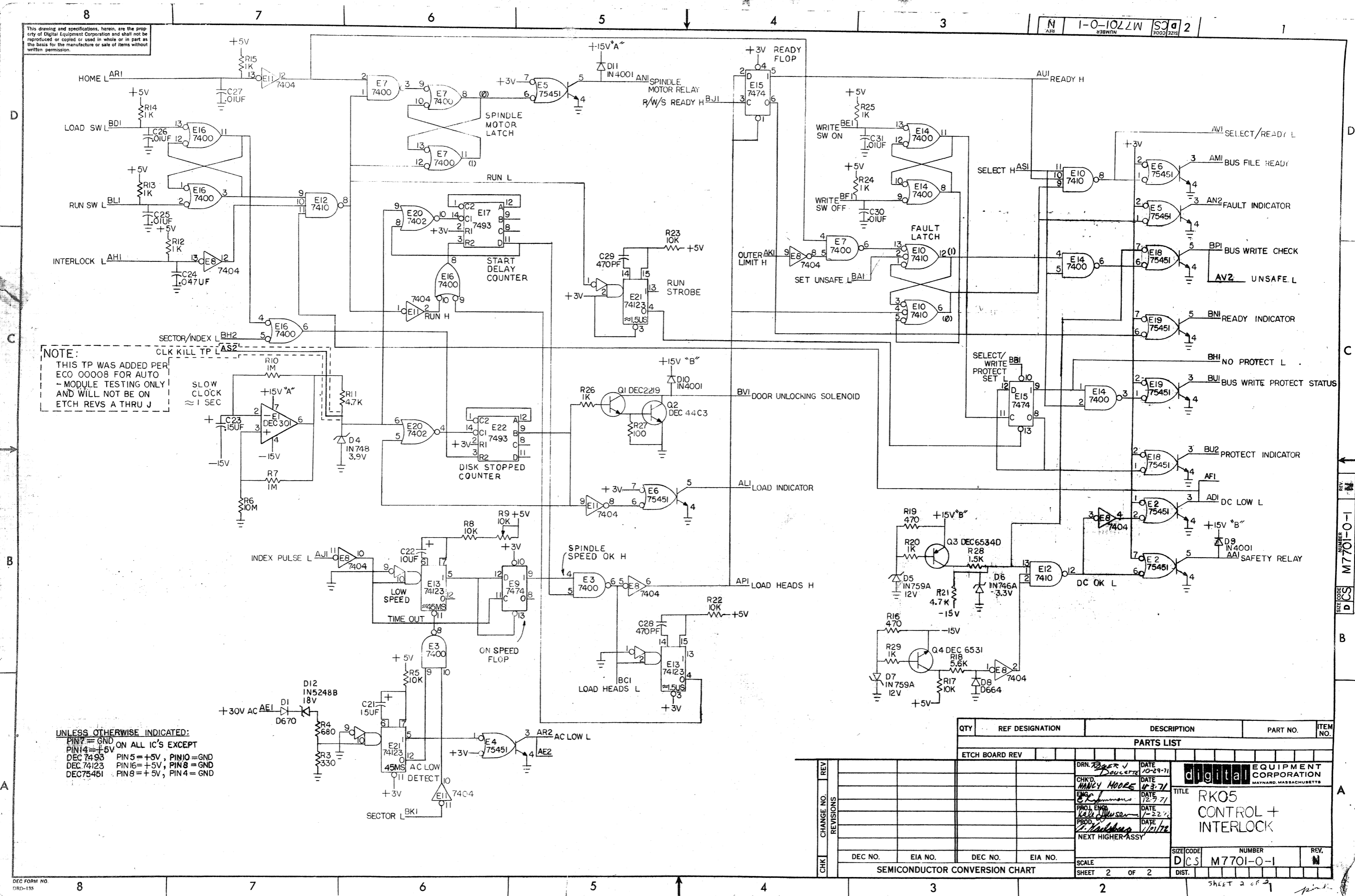
SIZE CODE D NUMBER M7701-0-1 REV. N

SEMICONDUCTOR CONVERSION CHART

SHEET 1 OF 2



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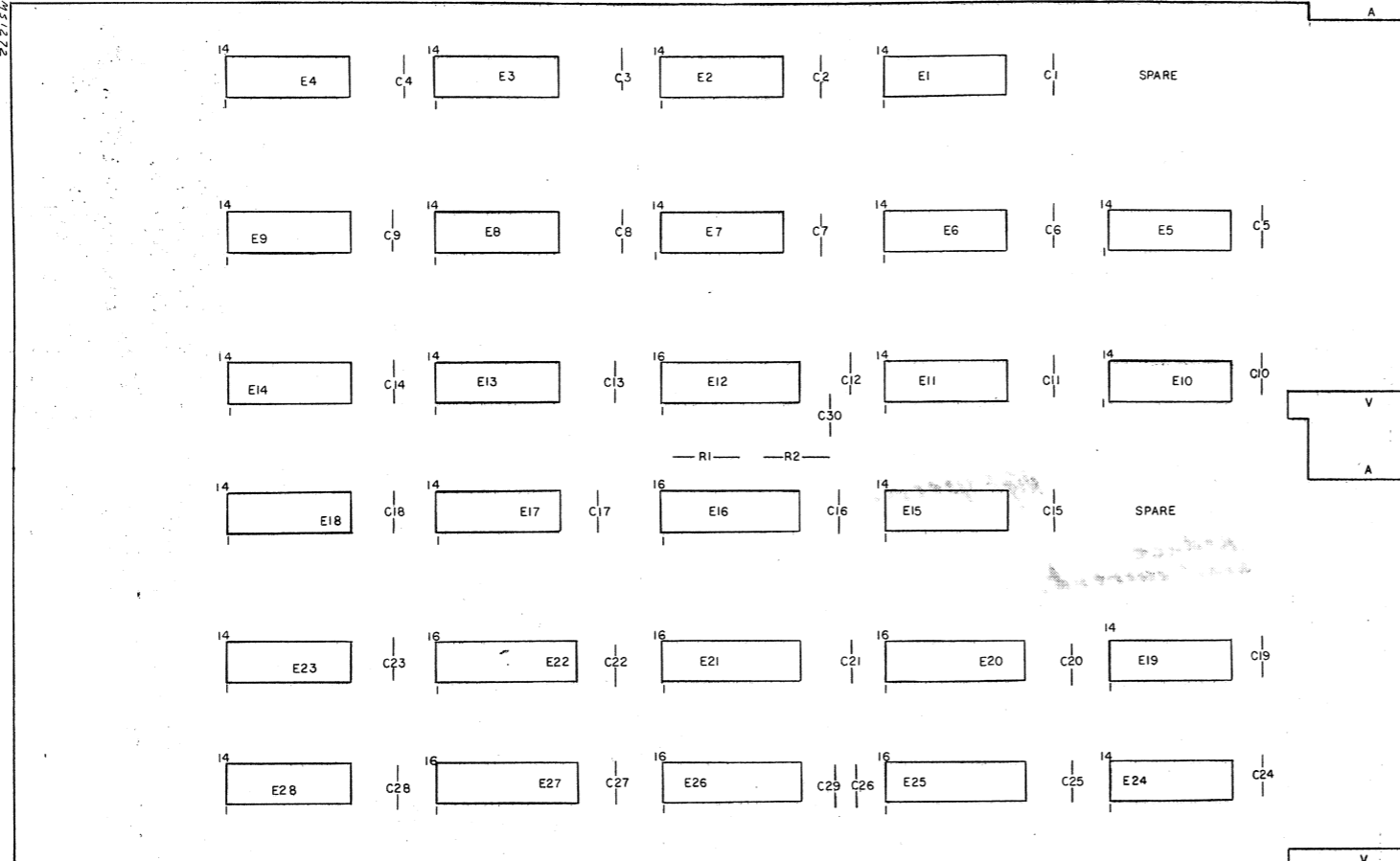
**NOTE:**  
THIS TP WAS ADDED PER ECO 00008 FOR AUTO-MODULE TESTING ONLY AND WILL NOT BE ON ETCH REVS A THRU J

**UNLESS OTHERWISE INDICATED:**  
 PIN 7 = GND ON ALL IC'S EXCEPT  
 DEC 7493 PIN 5 = +5V, PIN 10 = GND  
 DEC 74123 PIN 16 = +5V, PIN 8 = GND  
 DEC 75451 PIN 8 = +5V, PIN 4 = GND

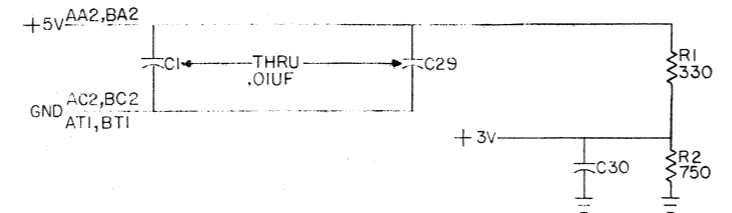
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																														
PARTS LIST																																		
ETCH BOARD REV																																		
<table border="1"> <tr> <td>REV</td> <td>CHG</td> <td>NO.</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>1</td> <td></td> <td></td> <td>10-29-71</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>11-3-71</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td>12-9-71</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td>1-22-72</td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td>1-11-72</td> <td></td> </tr> </table>					REV	CHG	NO.	DATE	BY	1			10-29-71		2			11-3-71		3			12-9-71		4			1-22-72		5			1-11-72	
REV	CHG	NO.	DATE	BY																														
1			10-29-71																															
2			11-3-71																															
3			12-9-71																															
4			1-22-72																															
5			1-11-72																															
DRN: <i>[Signature]</i> CHKD: <i>[Signature]</i> ENG: <i>[Signature]</i> PROJ. ENGR: <i>[Signature]</i> PROD. <i>[Signature]</i> NEXT HIGHER ASSY		<b>digital EQUIPMENT CORPORATION</b> MAYNARD, MASSACHUSETTS <b>TITLE</b> RK05 CONTROL + INTERLOCK																																
DEC NO.    EIA NO.    DEC NO.    EIA NO.		SCALE: DIST.    SHEET 2 OF 2																																
<b>SEMICONDUCTOR CONVERSION CHART</b>		SIZE CODE: NUMBER    REV. DCS M7701-0-1    M																																

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REV. C M7702-0-1



UNLESS OTHERWISE INDICATED:  
 PIN 8 = +5V DEC 380  
 PIN 1 = GND  
 PIN 5 = +5V DEC 7483  
 PIN 12 = GND  
 PIN 16 = +5V DEC 74175  
 PIN 8 = GND  
 PIN 16 = +5V DEC 74193  
 PIN 9 = GND  
 PIN 14 = +5V  
 PIN 7 = GND ALL OTHER IC'S



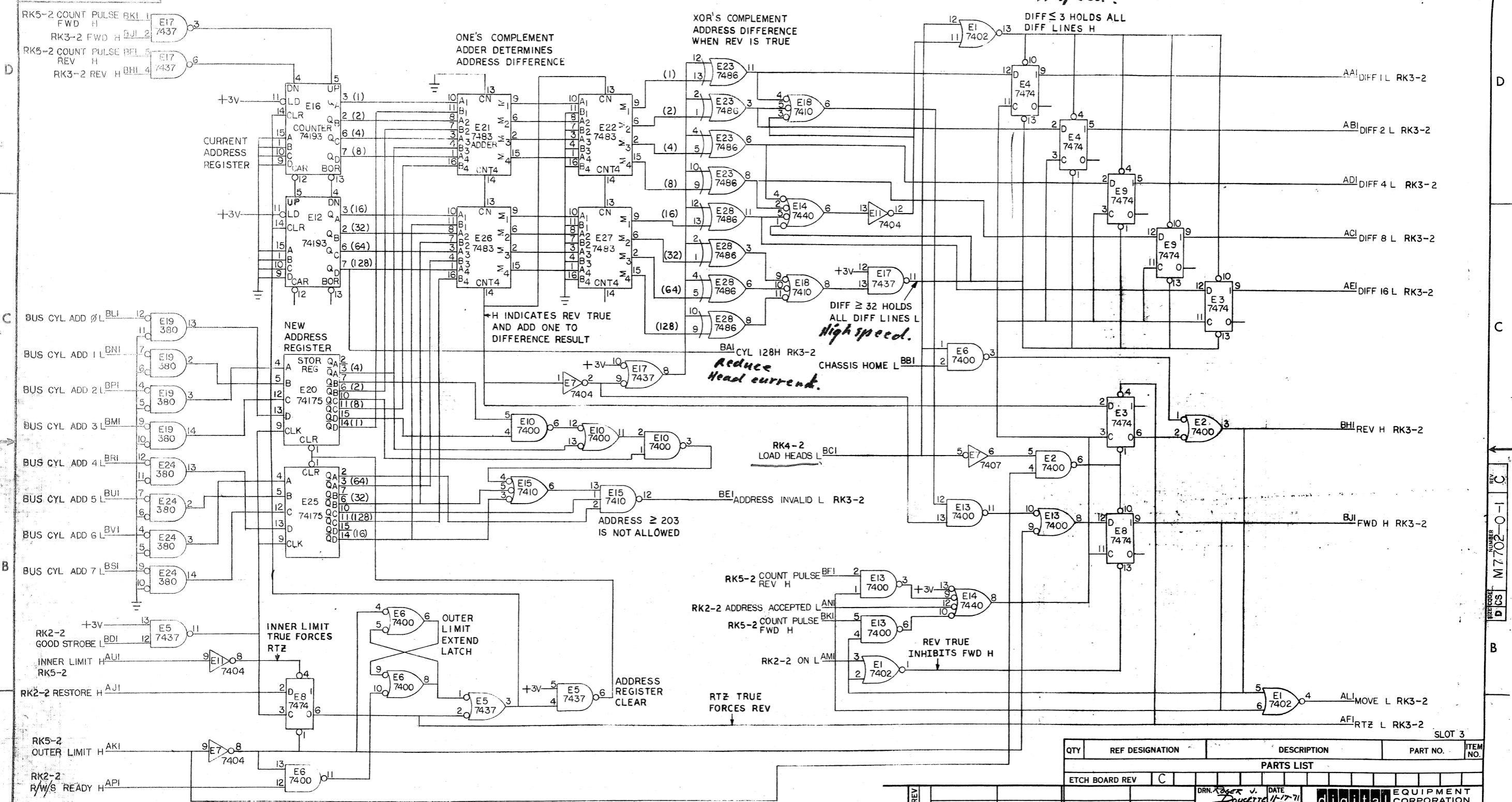
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
4		EYELET #GSL-7	9006732	22
2		HANDLE, FLIP CHIP - MAGENTA	9008337-06	21
2	E20, E25	I.C. DEC 74175	1910651	20
2	E5, E17	I.C. DEC 7437	1910091	19
2	E19, E24	I.C. DEC 380	1909485	18
2	E12, E16	I.C. DEC 74193	1910018	17
2	E23, E28	I.C. DEC 7486	1910011	16
4	E21, E22, E26, E27	I.C. DEC 7483	1909932	15
2	E7, E11	I.C. DEC 7404	1909686	14
1	E1	I.C. DEC 7402	1909004	13
1	E14	I.C. DEC 7440	1905579	12
2	E15, E18	I.C. DEC 7410	1905576	11
4	E2, E6, E10, E13	I.C. DEC 7400	1905575	10
4	E3, E4, E8, E9	I.C. DEC 7474	1905547	9
1	R2	RES. 750 1/4W 5%	1301401	8
1	R1	RES. 330 1/4W 5%	1300295	7
		GRIPLET	1210244-0	6
30	C1 - C30	CAP. .01UF 100V 20% DISC	1001610	5
1		ETCHED CIRCUIT BOARD	5009710	4
		MODULE ECO HISTORY	B-MH-M7702-0-6	3
		ASSY/DRILLING HOLE LOCATION	E-AH-M7702-0-5	2
		X-Y COORDINATE HOLE LOCATION	E-CO-M7702-0-4	1

PARTS LIST				
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
ETCH BOARD REV C				
DRN. Roger J. Doucette		DATE 11-17-71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHKD. Smith		DATE 11-19-71	TITLE DEC PACK CYL ADDR AND DIFF	
ENG. C.K. Simmons		DATE 12-16-71	NEXT HIGHER ASSY RK3-1	
PRG. ENG. C.K. Simmons		DATE 12-16-71	SCALE DCS M7702-0-1	
PROD.		DATE	REV. C	
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	REV.
SHEET 1 OF 2		DIST.		

REV. C M7702-0-1

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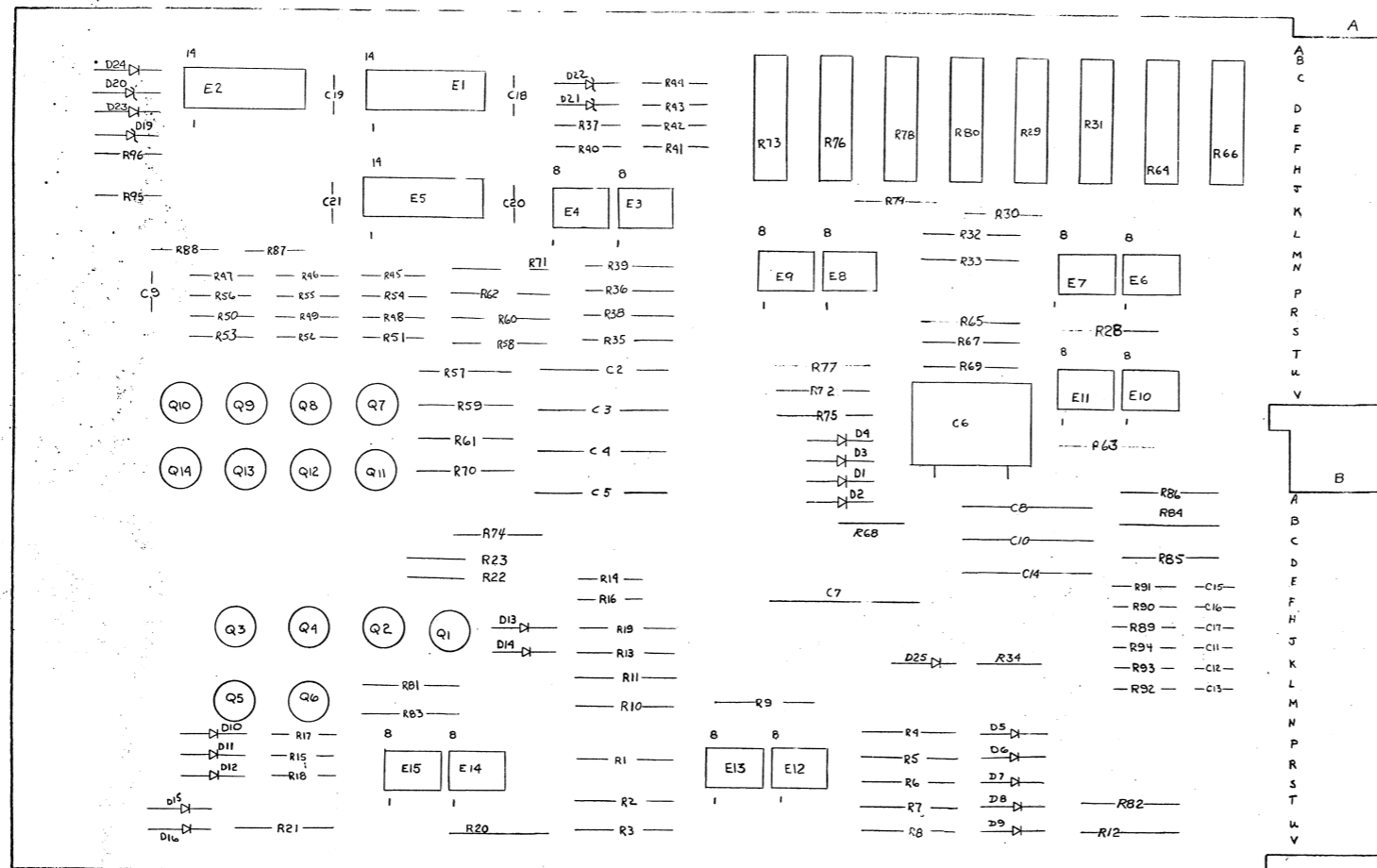
1-0-2022W S3 d 2



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV C				
DRN. <i>[Signature]</i>	DATE 11-17-71	 <b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D <i>[Signature]</i>	DATE 11-29-71			
ENG. <i>[Signature]</i>	DATE 12-16-71			
PROB'G. <i>[Signature]</i>	DATE 12-16-71			
PRD. <i>[Signature]</i>	DATE			
NEXT HIGHER ASSY		RK3-2		
DEC. NO.	EIA. NO.	DEC. NO.	EIA. NO.	SCALE
SEMICONDUCTOR CONVERSION CHART				SHEET 2 OF 2
SIZE CODE DCS		NUMBER M7702-0-1		REV. C
DIST.				

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1-0-8969 50 d



UNLESS OTHERWISE INDICATED:  
PIN 14 = +5V, PIN 7 = GND ON ALL IC'S.  
EXCEPT LM 301 + 72741.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
3	R28, 63, 77	RES. 1.96K 1/8W 1% MF	1304833	55
1	R74	RES. 1.47K 1/8W 1% MF	1305108	54
3	R95, 96, 34	RES. 10K 1/4W 5%	1300479	53
A/R		GRIPLET	1210244-0	52
2		HANDLE, FLIP CHIP - GREEN	9008337-01	51
4		EYELET #954-7	9006732	50
10	E6 - E15	I.C. DEC 72741	1916298	49
2	E3, E4	I.C. DEC 301	1910282	48
1	E2	I.C. DEC 7413	1909989	47
1	E1	I.C. DEC 7404	1905686	46
1	E5	I.C. DEC 7400	1905575	45
8	Q1-4, Q11-14	TRANSISTOR 2N5245	1509681	44
6	Q5-Q10	TRANSISTOR DEC 6534D	1503409-00	43
1	R86	RES. 2.7 1/4W 10%	1309444	42
1	R20	RES. 200K 1/8W 1% MF	1305336	41
12	R11, 13, 33, 33, 33, 33, 33, 33, 33, 33, 33, 33	RES. 19.6K 1/8W 1% MF	1309119	40
1	R7	RES. 11.5K 1/8W 1% MF	1309415	39
1	R21	RES. 3.03K 1/8W 1% MF	1309413	38
1	R75	RES. 24.3K 1/8W 1% MF	1309418	37
5	R29, 64, 73, 76, 78	RES. 10K 3/4W 10% 76PR	1309143-10	36
3	R31, 66, 80	POT. 2K 3/4W 10% 76PR	1309143-08	35
1	R4	RES. 68.1K 1/8W 1% MF	1305252	34
1	R8	RES. 5.62K 1/8W 1% MF	1305128	33
2	R72, R12	RES. 6.81K 1/8W 1% MF	1304870	32
6	R41, R42, R23, 30, 65, 79	RES. 75K 1/4W 5%	1304841	31
2	R3, R19	RES. 4.67K 1/8W 1% MF	1304856	30
5	R9, 57, 59, 61, 70	RES. 10K 1/8W 1% MF	1303312	29
1	R5	RES. 34.8K 1/8W 1% MF	1303156	27
1	R6	RES. 21.5K 1/8W 1% MF	1303155	26
1	R2	RES. 13.3K 1/8W 1% MF	1302412	25
1	R3	RES. 909K 1/8W 1% MF	1304855	24
1	R22	RES. 100K 1/4W 5%	1302466	23
5	R58, 60, R62, R71, R82	RES. 511 1/8W 1% MF	1302411	22
1	R88	RES. 750 1/4W 5%	1301101	21
7	R15, 17, 46, 49, 52, 55, 1	RES. 15K 1/4W 5%	1300496	20
5	R18, R47, R50, 53, 56	RES. 3.9K 1/4W 5%	1300444	19
9	R14, 16, 43, 44, 45, 48, 51, 54, 68	RES. 1.5K 1/4W 5%	1300391	18
3	R 37, 40, 87	RES. 330 1/4W 5%	1300295	17
6	R89-94	RES. 22 1/4W 10%	1300188	16
2	R84, R85	RES. 10 1/4W 5%	1300168	15
2	D15, D16	DIODE M766A 10V	1100125	14
4	D19 - 22	DIODE 1N746A	1104860	13
10	D5 - 14	DIODE D664	1100114	12
7	D1 - D4, 25, 23, 24	DIODE D662	1100113	11
1	C7	CAP. .022UF 100V 10% MYLAR	1002323	10
1	C6	CAP. .2700pf 100V MICA	1001637	9
3	C8, 10, 14	CAP. .15UF 20V 10% 3.TANT	1001812	8
11	C9, 11, 12, 13, 15-21	CAP. .01UF 100V 20% DISC	1001610	7
4	C2, 3, 4, 5	CAP. .015UF 50V 2% POLY CARB	1010646	6
1		ETCHED CIRCUIT BOARD	5009388	4
		MODULE ECO HISTORY	B-MH-0938-0-6	3
		ASSY/DRILLING HOLE LAYOUT	B-AH-0938-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-CO-0938-0-4	1

CHK	CHANGE NO.	REV	DESCRIPTION
	65340		NONE
	2N5245		
	D662		IN 645
	D664		IN 3606
	IN 7464		SAME
	DEC NO.	EIA NO.	DEC NO.
			EIA NO.

CHK	CHANGE NO.	REV	DESCRIPTION
	65340		NONE
	2N5245		
	D662		IN 645
	D664		IN 3606
	IN 7464		SAME
	DEC NO.	EIA NO.	DEC NO.
			EIA NO.

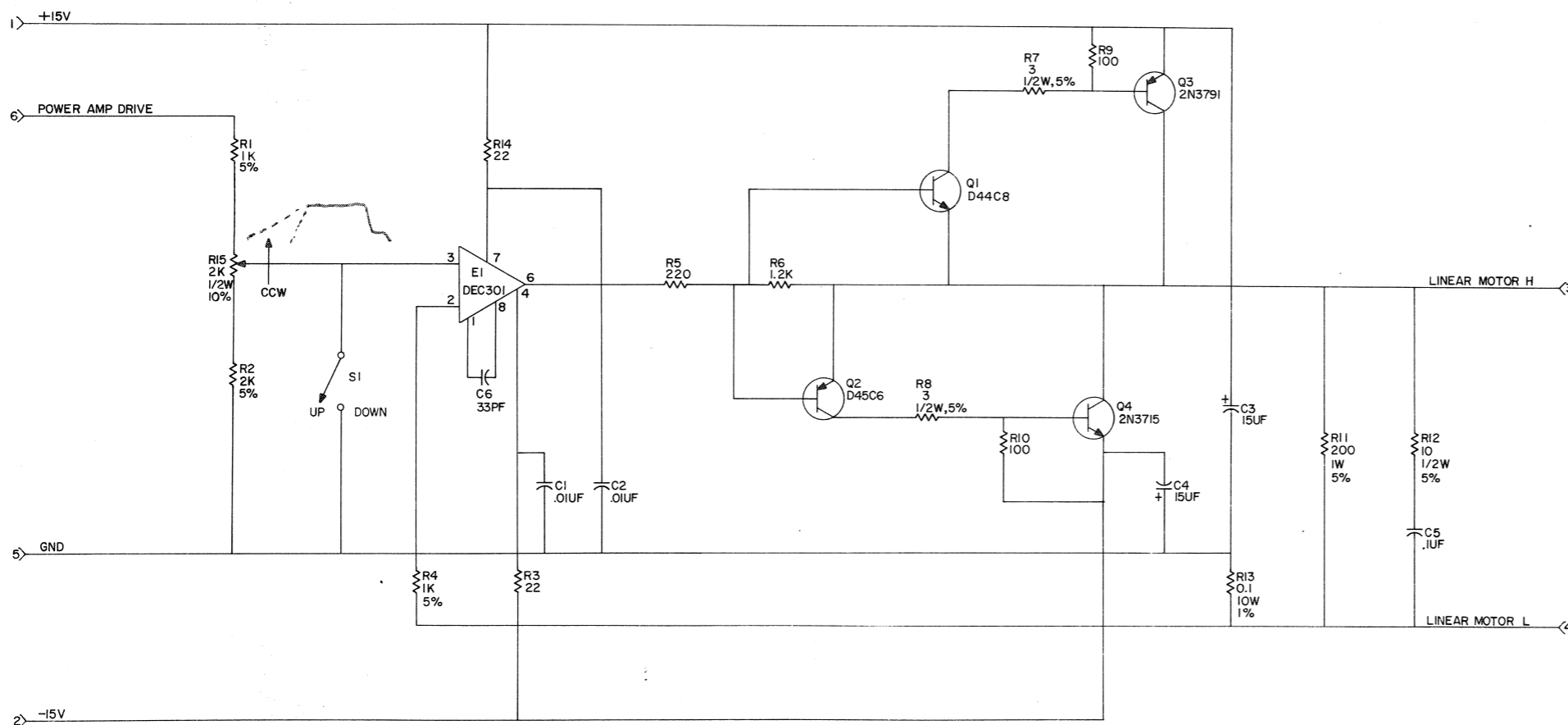
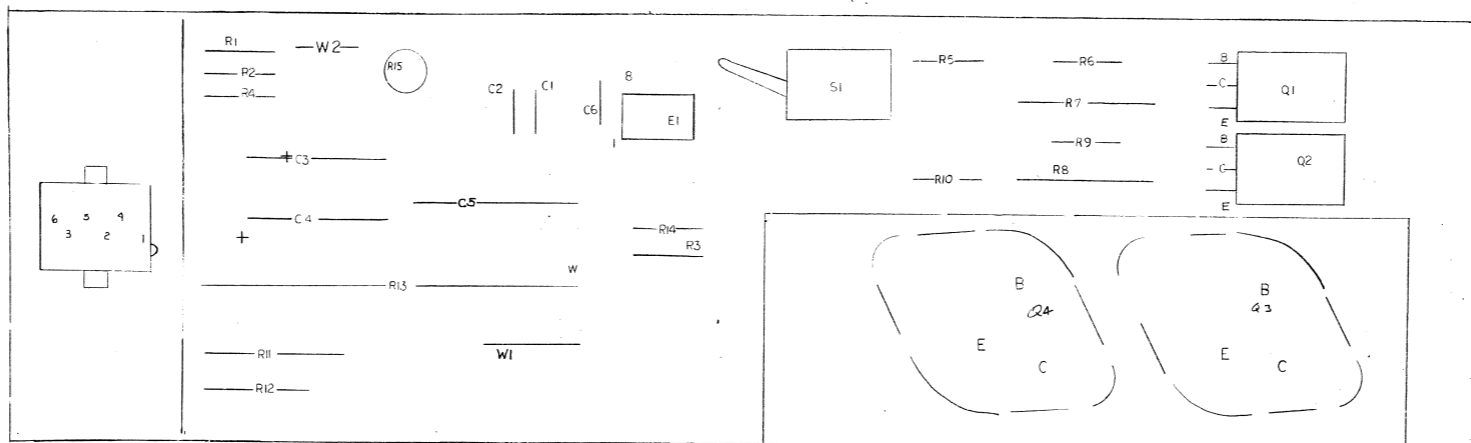
DRN. Roger J. Doucette	DATE 12-8-71		<b>DEC PACK HEAD POSITION SERVO PREAMP</b> RK5-1
CHKD. Newell	DATE 12-9-71		
ENG. Bob Jensen	DATE 30 Dec 71		
PROJ. ENG. Bob Jensen	DATE 30 Dec 71		
PROD. W. H. Jensen	DATE 31 Dec 71	SIZE CODE D/C5	NUMBER 6938-0-1
NEXT HIGHER ASSY		DIST.	REV. L

SEMICONDUCTOR CONVERSION CHART



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1-0-809H SJ: G  
3000 1/15



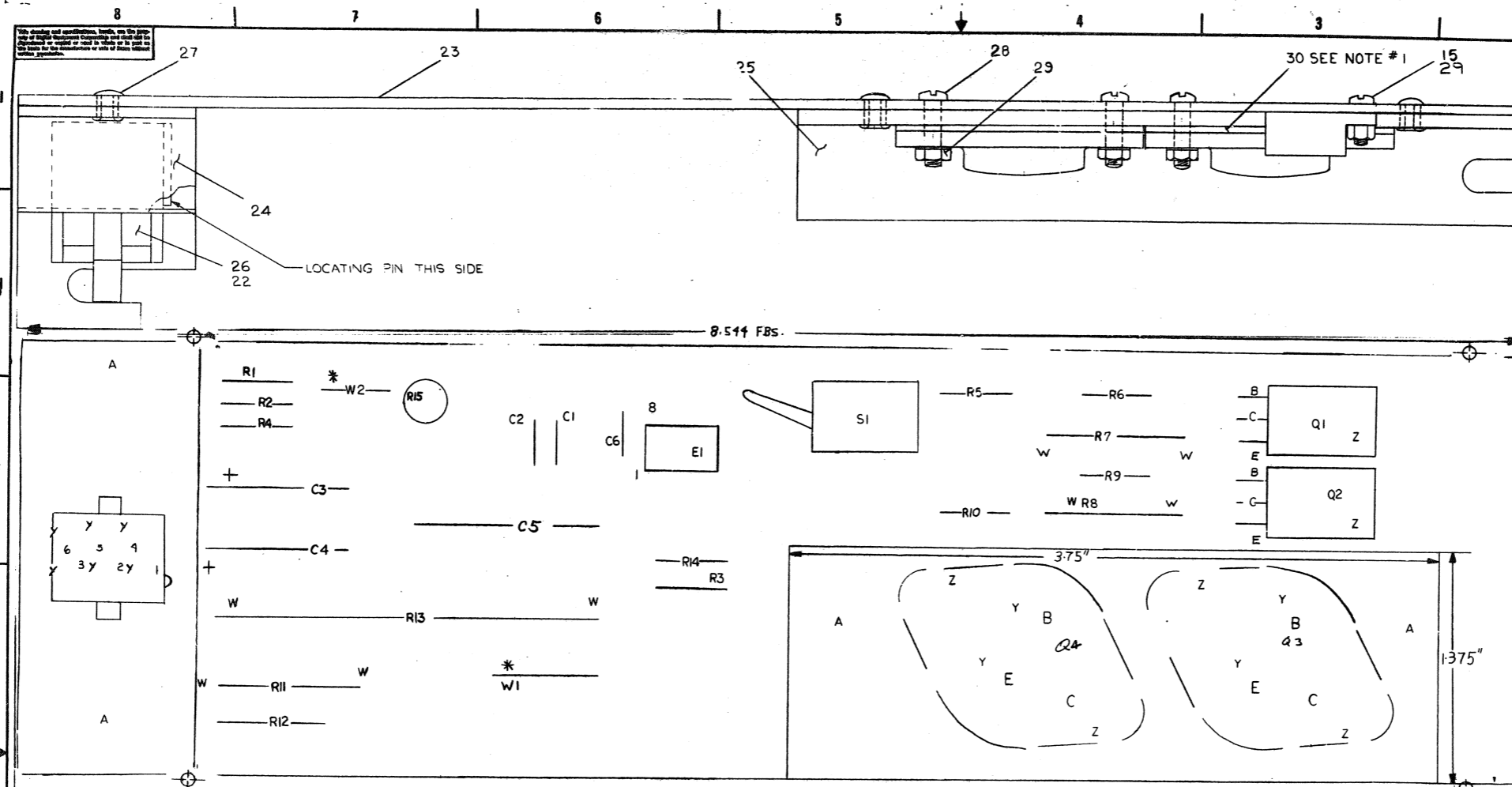
UNLESS OTHERWISE INDICATED:  
RES. ARE 1/4W, 10%  
R13 IS A CURRENT SAMPLING RES.

REV	BY	DATE	DESCRIPTION
1	W. J. JENSEN	11/15/71	INITIAL DESIGN
2	D. JENSEN	11/15/71	REVISION
3	D. JENSEN	11/15/71	REVISION
4	D. JENSEN	11/15/71	REVISION

CHK'D	DATE
B. J. JENSEN	11/15/71
D. JENSEN	11/15/71
D. JENSEN	11/15/71

TRANSISTOR & DIODE CONVERSION CHART			
DATE	DEC	EIA	DATE
11/15/71	2N3715		
	D45C6		
	D44C8		

<b>digital</b>		TITLE: DECPAK HEAD POS. SERVO PWR. AMP.	
EQUIPMENT CORPORATION		SITE CODE: D CS	NUMBER: H604-0-1
MAYFORD, MASSACHUSETTS		REV: J	DATE: 11/15/71



NOTES:  
 1. APPLY ITEM NO 31(THERMAL JOINT COMPOUND) BETWEEN TRANSISTORS (Q.3 & Q.4) AND ITEM NO 30(WASHER), ALSO BETWEEN ITEM NO 30(WASHER) AND ITEM NO 25(BRACKET, HEAT SINK).

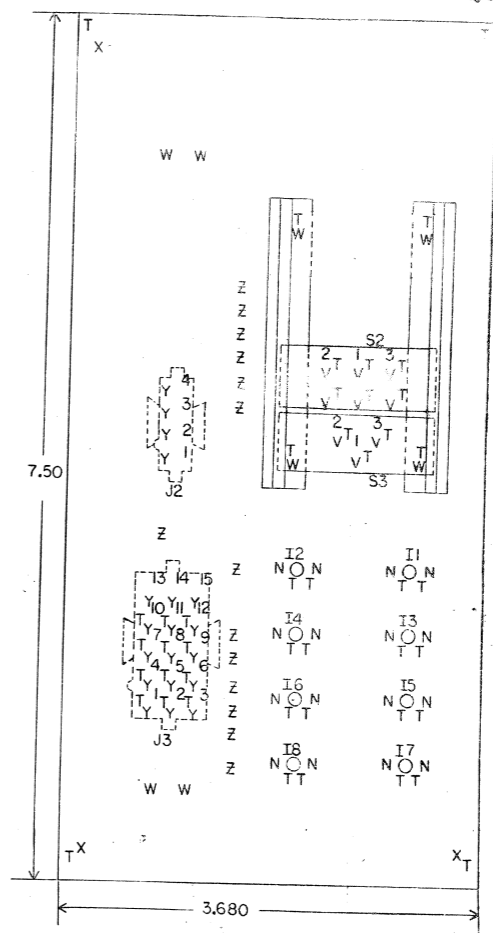
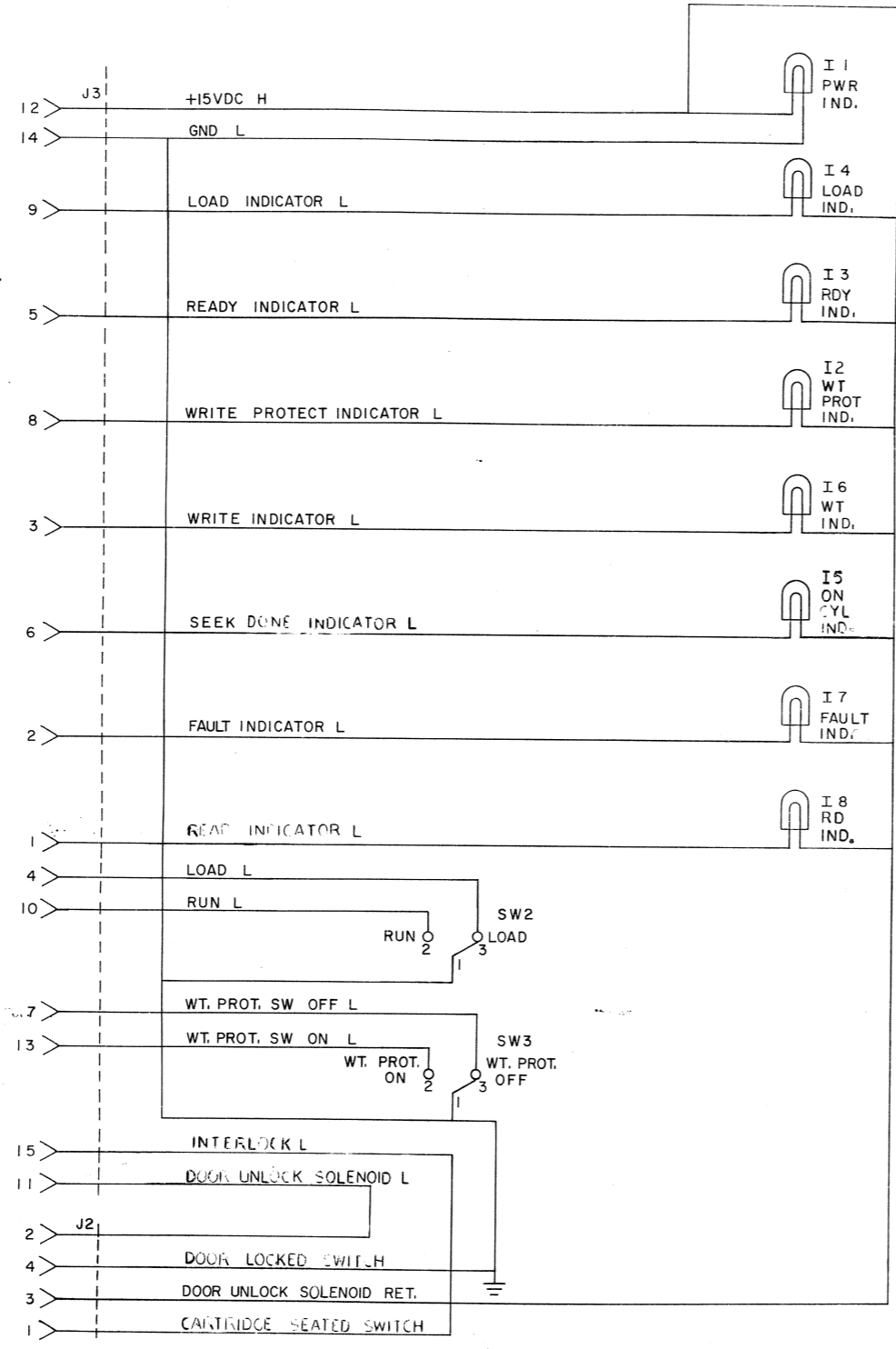
IC TYPE	QND	Q-PI	ITEM NO	ANG	FROM PT	TO PT

REF	DESCRIPTION	QTY	REF DESIGNATION	DESCRIPTION	PART NO.
1	ASSY HOLE DRILLING LAYOUT	1			
2	# 22 AWG JUMPER WIRE	32			
3	COMPOUND THERMAL JOINT	31			
4	INSULATOR WASHER	30			
5	KEP NUT 4-40	29			
6	SCR BINDER HD, SLOTTED #4-40X.44	28			
7	EYELET .1210D X .210L6	27			
8	6 PIN MATE-N-LOCK	26			
9	BRACKET, HEAT SINK	25			
10	BRACKET, SERVO BOARD	24			
11	ETCHED CIRCUIT BOARD	23			
12	PINS FOR MATE-N-LOCK	22			
13	IC LM301	21			
14	TRANS 2N3715	20			
15	TRANS 2N3791	19			
16	TRANS DEC D45C6	18			
17	TRANS DEC D44CB OR TIP 31A	17			
18	RES 1K, .25W, 5%	16			
19	SCREW, 4-40X.1/4 BINDER HD, SLOTTED	15			
20	POT 2K 1/2 W 10% 62 PR	14			
21	RES 1.2K, .25W, 10%	13			
22	RES 220, .25W, 10%	12			
23	RES 200, 1W, 5%	11			
24	RES 100, .25W, 10%	10			
25	RES 22, .25W, 10%	9			
26	RES 10, .5W, 5%	8			
27	RES 3, .5W, 5%	7			
28	RES 1, 10W, 1%	6			
29	SWITCH TOGGLE T-800H	5			
30	CAP 15UF, 20V, 10%	4			
31	CAP 33PF, 100V, 5%	3			
32	CAP .1UF, 100V, 10%	2			
33	CAP .01UF, 100V, 20%	1			
34	RES 2K 1/4W 5%	1	R2		

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

EQUIPMENT CORPORATION  
 TITLE: HEAD POSITION SERVO POWER AMP  
 PART NO.: EJA H604-0-0  
 REV: 1

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REV	CHG NO	REV	CHK'D	DATE
1			D. JENSEN	11-20-71
2			D. JENSEN	11-20-71
3			D. JENSEN	11-20-71
4			D. JENSEN	11-20-71
5			D. JENSEN	11-20-71
6			D. JENSEN	11-20-71
7			D. JENSEN	11-20-71
8			D. JENSEN	11-20-71
9			D. JENSEN	11-20-71
10			D. JENSEN	11-20-71
11			D. JENSEN	11-20-71
12			D. JENSEN	11-20-71
13			D. JENSEN	11-20-71
14			D. JENSEN	11-20-71
15			D. JENSEN	11-20-71

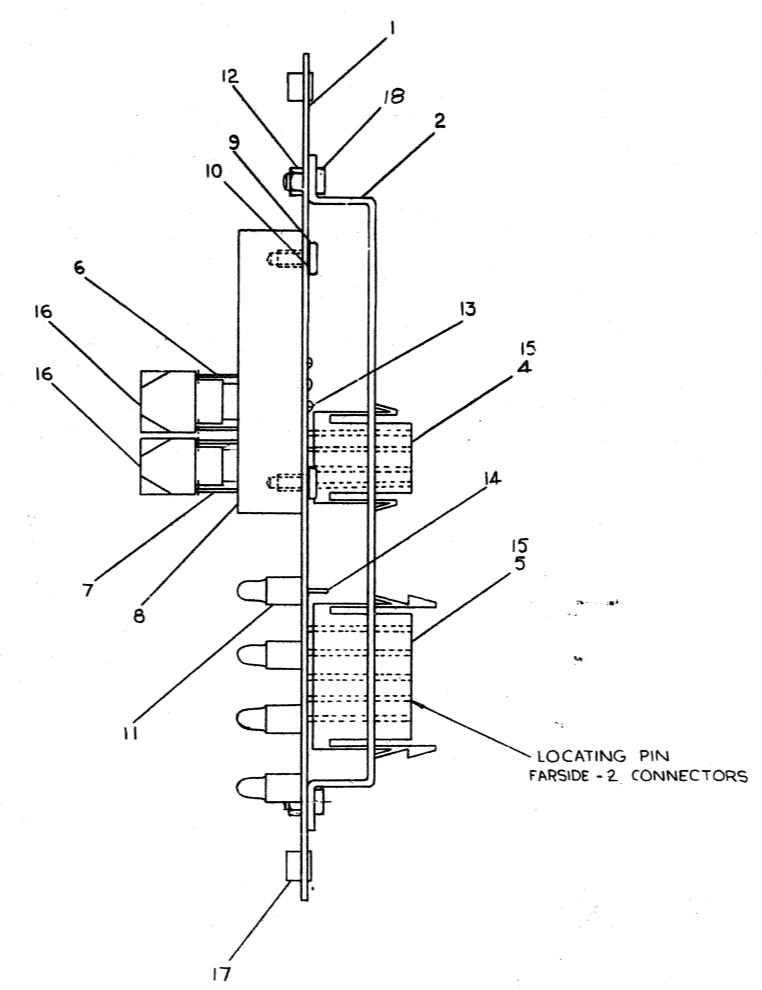
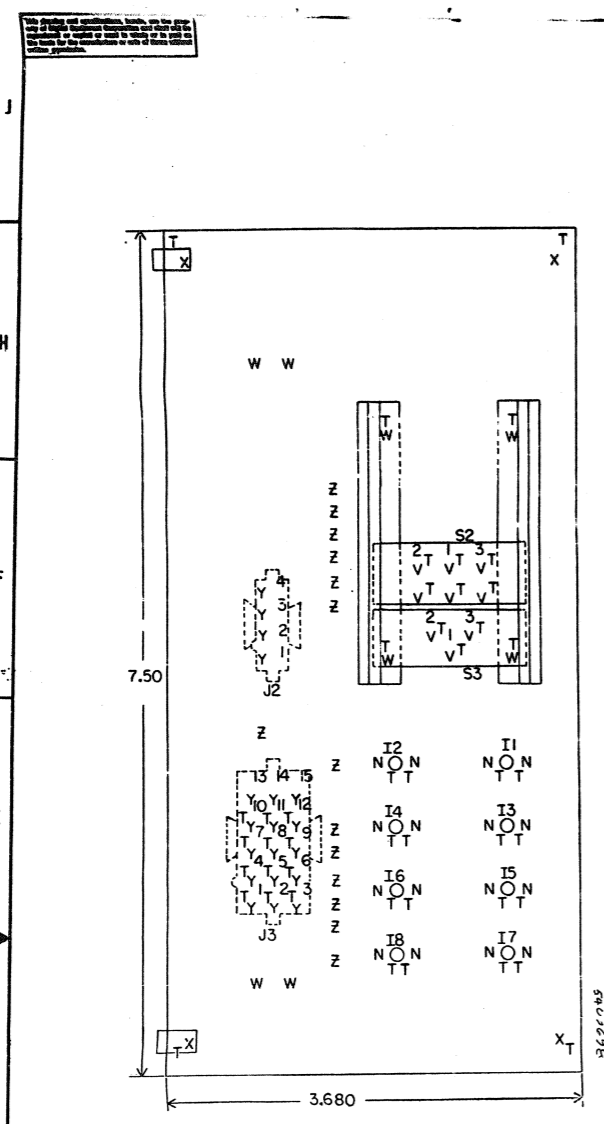
DRN. S. COOPER DATE 11-20-71  
 CHK'D DATE  
 ENG. D. JENSEN DATE 11-20-71  
 PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

		TITLE RK05 CONTROL PANEL	
SIZE C	CODE CS	NUMBER 5409698-0-1	REV. D

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





IC TYPE	QND	+3V	ITEM NO	AWG	FROM PT	TO PT
IC PIN LOCATIONS						
JUMPER LIST						

REF	DESCRIPTION	QTY	PART NO.
4	ASSY/DRILLING HOLE LAYOUT		DAH-5409698-05 19
4	SCR, PHL PAN HD *4-40 x 5/16 LG		9006010-1 18
4	NUT CLIP # 6-32		9008423 17
2	SWITCH BUTTON		1205317-07 16
18	PIN SOCKET MATE-N-LOCK		1209456 15
16	TERMINAL SOLDERLESS		9007912 14
16	EYELET FEED THROUGH		9006781 13
4	NUT KEPS # 4- 40		9006557 12
8	LAMP		1209169 11
4	LOCK WASHER INTERNAL 6-32		9006633 10
4	SCREW PHL PAN HEAD 6-32 x 5/16 LG		9006021-1 9
2	SWITCH MOUNTING BAR		B-HD-5509830-0-0 8
1	SWITCH, ROCKER		1205375 7
1	SWITCH, ROCKER		1205941 6
1	HOUSING, SOCKET MATE-N-LOCK 5 PIN		1209350-15 5
1	HOUSING, SOCKET MATE-N-LOCK 4 PIN		1209350-04 4
1	CONNECTOR BRACKET		C-MD-5509829-0-0 3
1	ETCHED CIRCUIT BOARD		9009697 1
REF	MODULE ECO HISTORY		B-MH-5409698-0-6
REF	X-Y CO-ORDINATE HOLE LOCATION		K-CD-5409698-0-4
REF	CIRCUIT SCHEMATIC		C-CS-5409698-0-1

FIRST USED ON OPT/MOD  
RK05

ETCH BOARD REV D

SEMI-CONDUCTOR CONVERSION CHART

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

1 OF 1

EQUIPMENT CORPORATION  
CONTROL PANEL  
RK7-2  
(RK05)

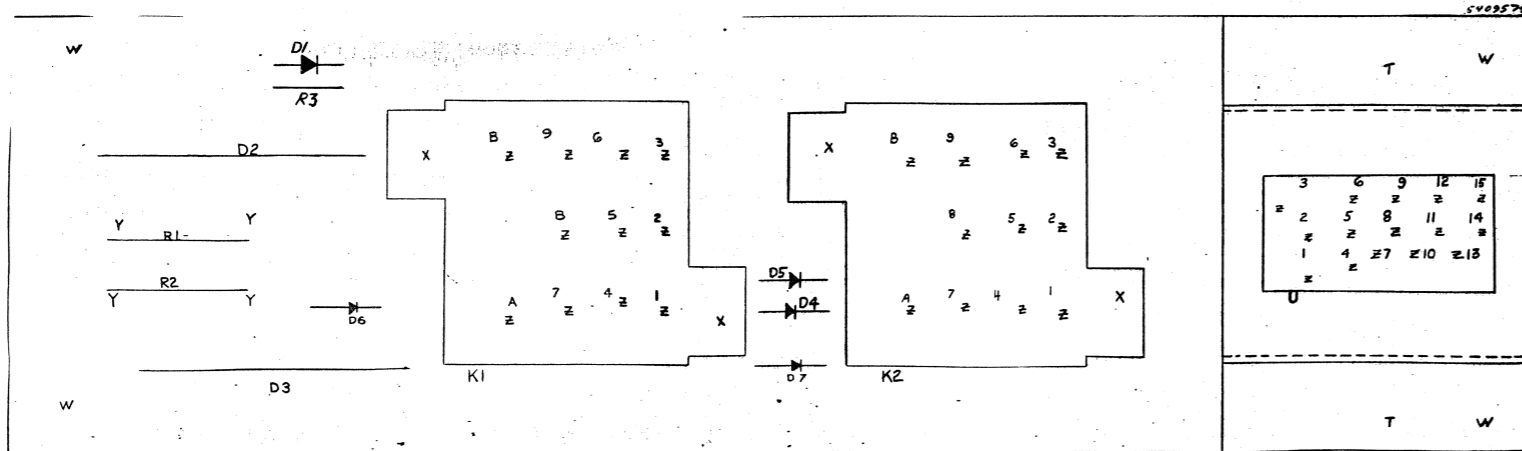
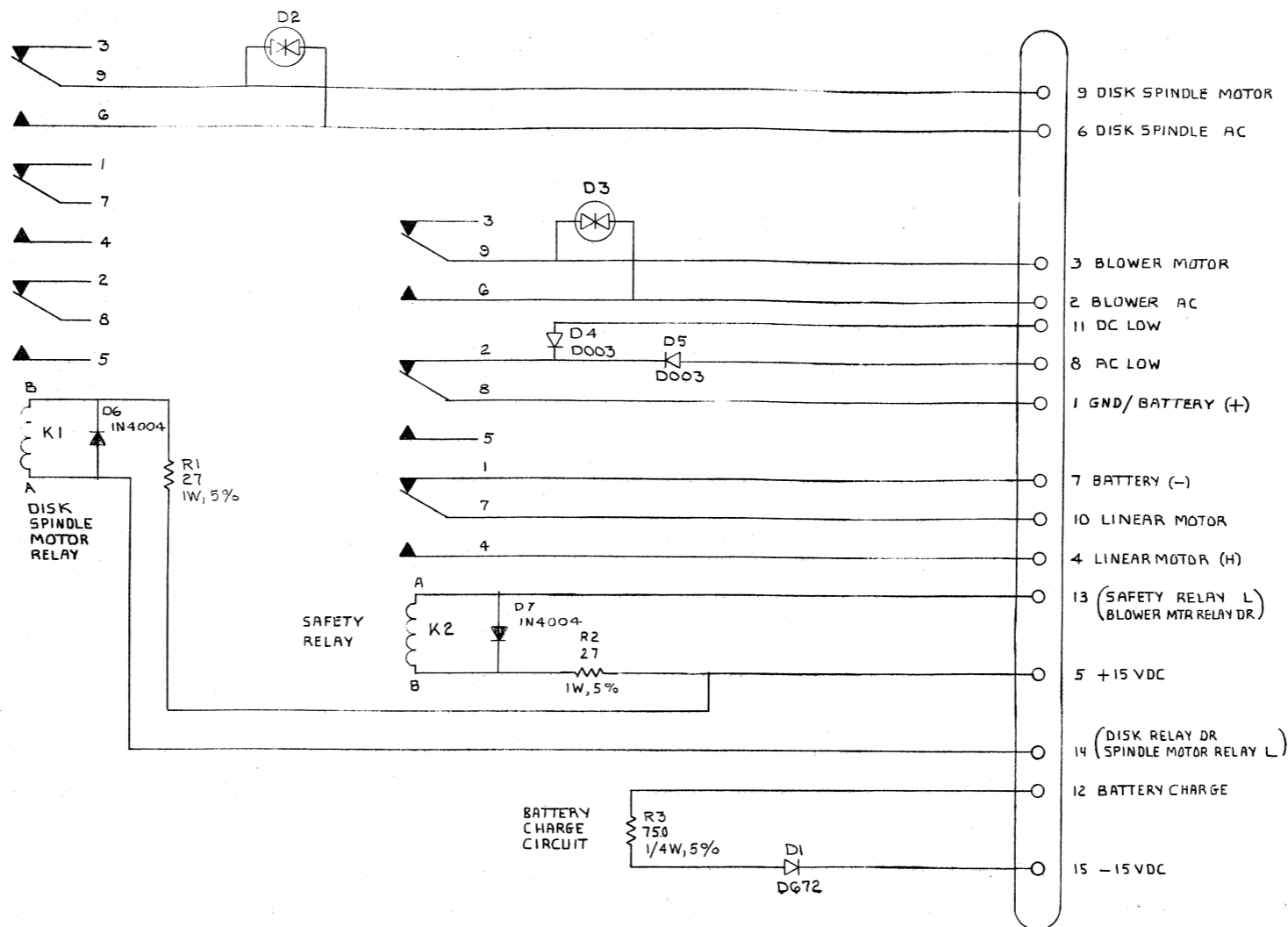
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SIZE CODE DCS 5409574-0-1 REV. F

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.



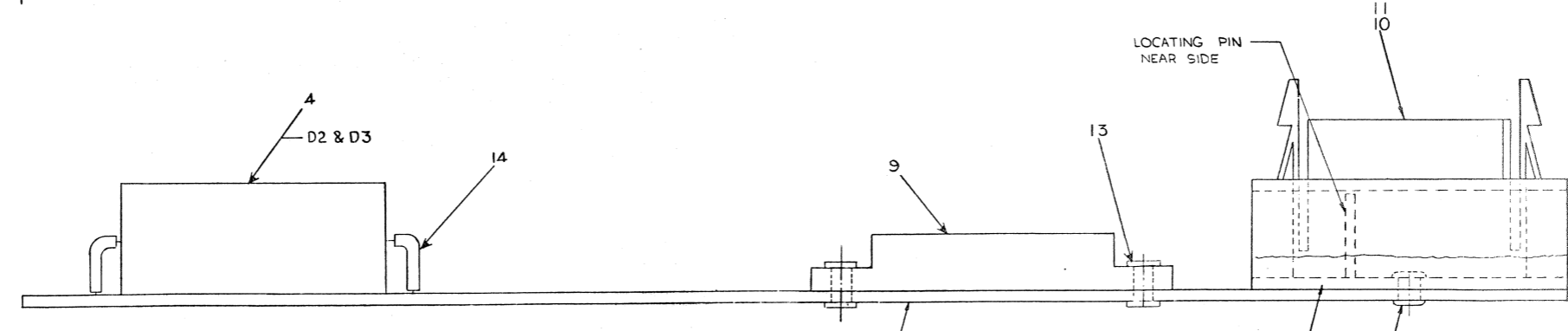
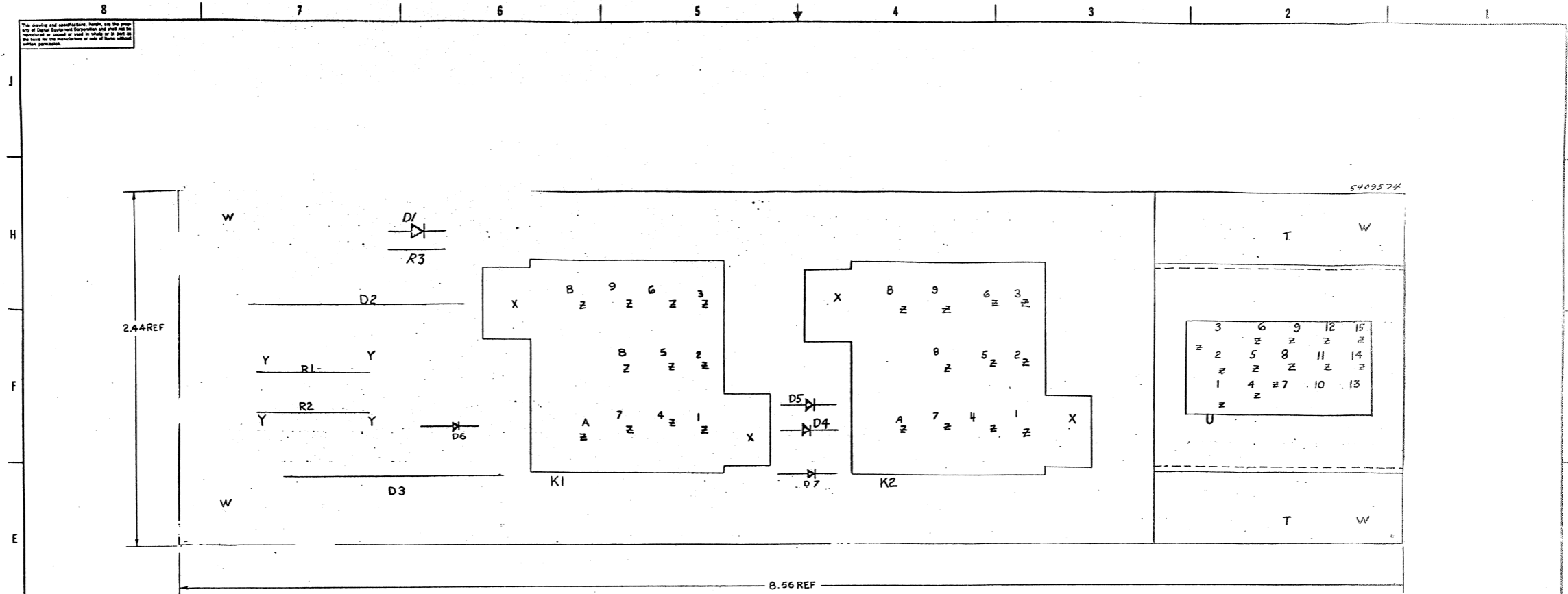
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV. F				
DRN. ROGER J. DATE 12-9-71			 <b>digital EQUIPMENT CORPORATION</b> MAYNARD, MASSACHUSETTS <b>DEC PACK MOTOR RELAYS</b>	
CHK'D. DATE 12-15-71				
ENG. DATE 10 Jan 72				
PROJ. ENG. DATE 10 Jan 72				
PROD. DATE				
NEXT HIGHER ASSY				
SCALE			SIZE CODE DCS 5409574-0-1 REV. F	
SHEET OF DIST.				

REV	CHANGE NO.	DATE	BY
1		2/15/73	D. JENSEN
2		2-20-73	N. FIELD
3		2/15/75	N. FIELD

REV	CHANGE NO.	DATE	BY
1		2/15/73	D. JENSEN
2		2-20-73	N. FIELD
3		2/15/75	N. FIELD

SEMICONDUCTOR CONVERSION CHART

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IC TYPE	GND	+5V	ITEM NO	AWG	FROM PT	TO PT
IC PIN LOCATIONS						
JUMPER LIST						

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

QTY.	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
2	D1, D2	DIODE IN4004	1105795	76
1	D3	DIODE 1N4001	1105795	76
2	D4, D5	DIODE GER DOD3	1100100	2
2	R1, R2	RESISTOR 27 1/4W 5%	130140	6
1	R3	RESISTOR 750 1/4W 5%	130140	6
1	D6	DIODE D674	1105293	3
2	K1, K2	RELAYCP 121.00X.219L6	1301516	7
1	U1	15 PIN MATE-N-LOCK	209436	11
1	U2	15 PIN MATE-N-LOCK	209436	11
1	U3	RELAY SOCKET	1101394	3
1	U4	ETCHED CIRCUIT BOARD	5009573	1
1	U5	MODULE ECO HISTORY	5009573	1
1	U6	BRACKET MOTOR RELAY	1101394	3
1	U7	X-Y COORD HOLE LOCAT	1101394	3
1	U8	CIRCUIT SCHEMATIC	1105795	76

DATE	BY	DESCRIPTION
7/1/76	W. F. FIELD	DESIGN
7/1/76	W. F. FIELD	CHK'D
7/1/76	W. F. FIELD	APP'D
7/1/76	W. F. FIELD	TEST'D
7/1/76	W. F. FIELD	ASSEMBLED
7/1/76	W. F. FIELD	INSPECTED

DEC NO.	EIA NO.	DEC NO.	EIA NO.
06	07	06	07

SCALE	SHEET	OF
4:1	1	1

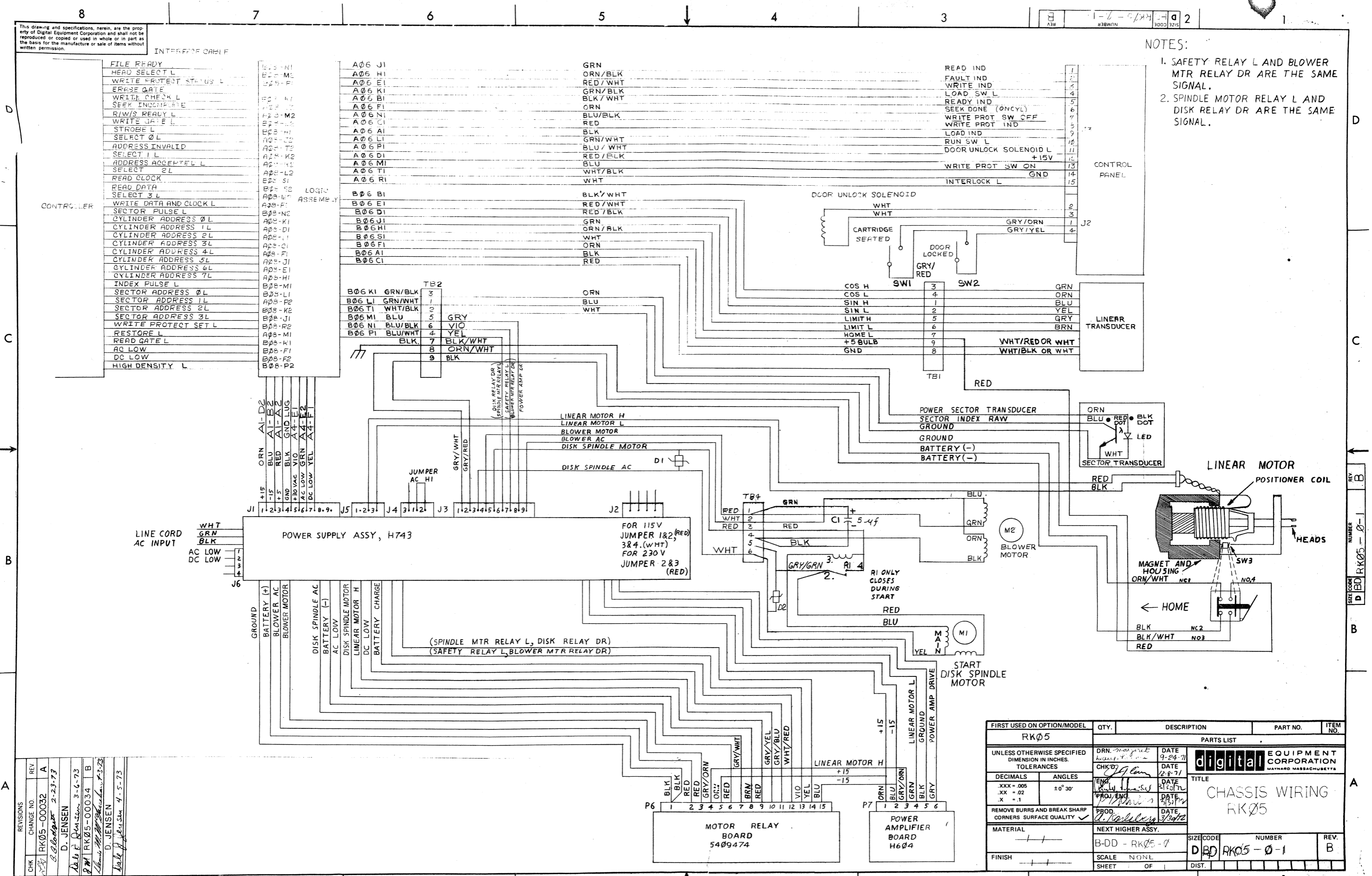
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INTERFACER ORBLE F

REV 1-1-73  
 SIZE CODE  
 #1000  
 a 2

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.



REV	CHANGE NO.	DATE
1	1005-00032	3-6-73
2	1005-00034	3-6-73
3	1005-00034	4-5-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX - .005	± 0° 30'	DRN. Margaret	DATE 9-24-71	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
XX - .02		CHK'D J. Jensen	DATE 12-8-71	
X - .1		ENG. J. Jensen	DATE 3-6-73	
		PROD. G. V. Jensen	DATE 3-6-73	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH			SIZE CODE	NUMBER
SCALE NONE			B-DD-RK05-0-1	REV. B
SHEET OF			DIST.	

DIGITAL EQUIPMENT CORPORATION  
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

LEGEND

D DOCUMENT  
DN DOCUMENT CHANGE NOTICE  
PA PAPER TAPE ASCII  
PB PAPER TAPE BINARY  
PM PAPER TAPE READ-IN-MODE

QUANTITY / VARIATION

MADE BY G. Schneider  
DATE 8/17/72  
CHECKED [Signature] DATE 8/17/72  
SECTION  
PROD [Signature] DATE 8/17/72  
ISSUED SECT.

ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION		KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1	RK05-0	Customer Print Set (B-DD-RK05-0 Sheet one only)	1	1						
<del>2</del>	<del>DEC-RK05-TPB-1</del>	<del>ILLUSTRATED PARTS BREAK DOWN FOR RK05</del>	<del>1</del>	<del>1</del>						
3	DEC-00-RK05-DA	Maintenance Manual	1	1						
4	BC 11A-6	Unibus Cable 6 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										

TITLE DECpack Assembly	ASSY. NO.	SIZE CODE A AL	NUMBER RK05-0-17	REV. E	ECO NO RK05-00052
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	TB-DD-H743- $\phi$ SHEET #1 ONLY	SEQUENCE	T
	D-CS-H743- $\phi$ -1		
	E-1A-5409503-0-0		
	D-CS-5409503-0-1		
	E-1A-5409484-0-0		
	D-CS-5409484-0-1		

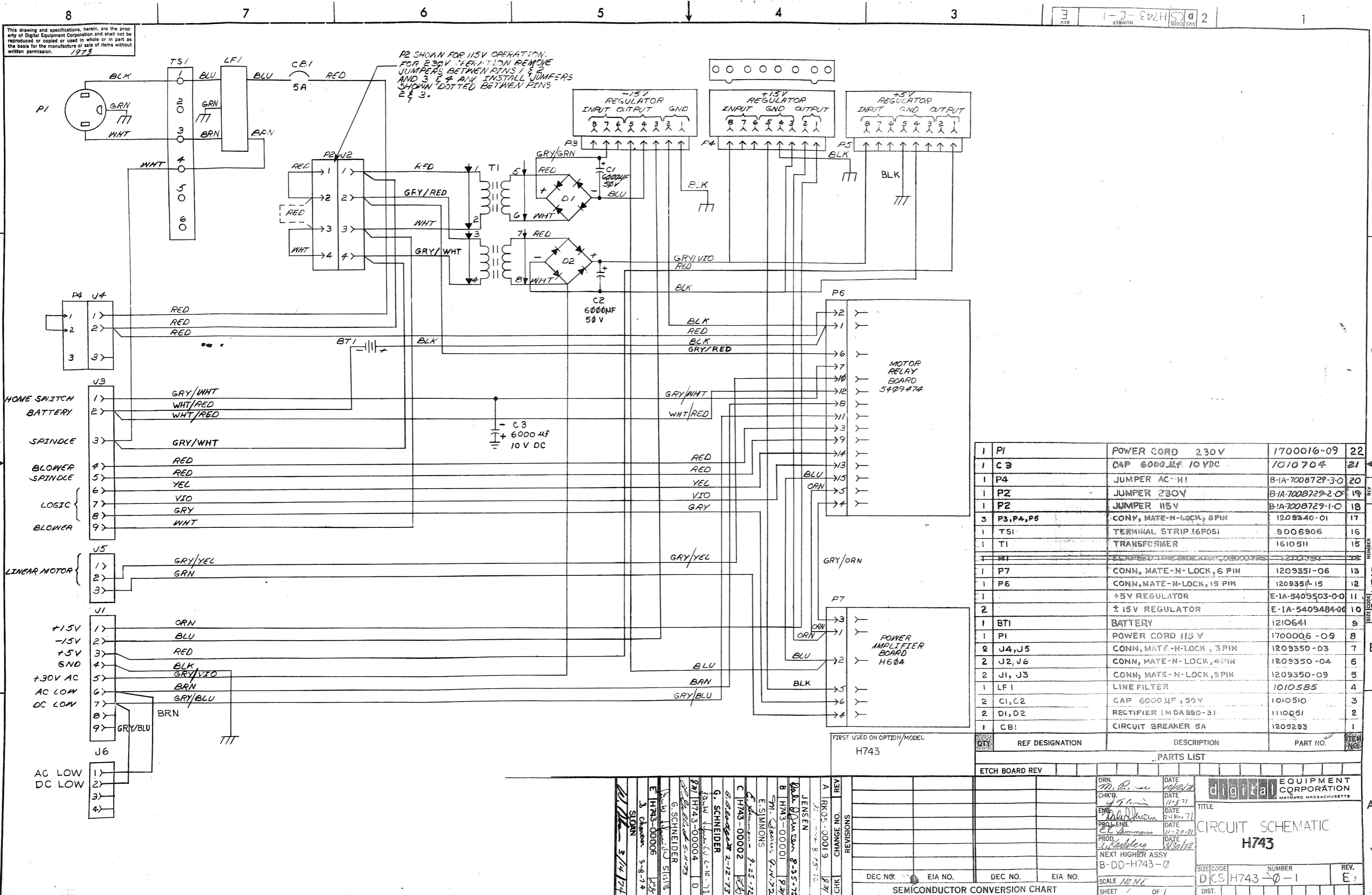
MFG PRINTS

POWER SUPPLY	D-UA-H743-0-0
POWER SUPPLY (PL)	A-PL-H743-0-0
DRAWING DIRECTORY	B-DD-H743- $\phi$
PACKAGING INSTRUCTION	A-PI-3700130-0-0

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

REV	REVISIONS										USED ON OPTION/MODEL	DRN.	DATE	TITLE						
	CHG. NO.	A	B	C	D	E	F	H	J	K					DATE	DATE	DATE	DATE	DATE	DATE
	RK05-19											J. FLEMING	12/16/71	POWER SUPPLY (H743)						
		H743-1										CHK'D.								
			H743-2									PROJ ENG.	7-7-72							
				H743-3									4/26/72							
					H743-4							PROD.								
						H743-5						A. Kadisberg	4/19/72							
							H743-6					FIELD SERV.								
								H743-7												
									H743-10											
												SHEET 1	OF 3	DIST 6						

DRB 106



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1973

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.	REV
1	PI	POWER CORD 230V	1700016-09	22
1	C3	CAP 6000UF 10VDC	1010704	21
1	P4	JUMPER AC-HI	B-1A-7008729-3-0	20
1	P2	JUMPER 230V	B-1A-7008729-2-0	19
1	P2	JUMPER 115V	B-1A-7008729-1-0	18
3	P3, P4, P5	CONN, MATE-N-LOCK, 8PIN	1209340-01	17
1	TS1	TERMINAL STRIP 16POS	9006906	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	P1	+5V REGULATOR	E-1A-5409503-0-0	11
2	P2	±15V REGULATOR	E-1A-5409484-0-0	10
1	BT1	BATTERY	1210641	9
1	PI	POWER CORD 115V	1700006-09	8
2	J4, J5	CONN, MATE-N-LOCK, 3PIN	1209350-03	7
2	J2, J6	CONN, MATE-N-LOCK, 4PIN	1209350-04	6
2	J1, J3	CONN, MATE-N-LOCK, 9PIN	1209350-09	5
1	LF1	LINE FILTER	1010585	4
2	C1, C2	CAP 6000UF, 50V	1010510	3
2	D1, D2	RECTIFIER (M DA990-3)	1110051	2
1	CB1	CIRCUIT BREAKER 5A	1205293	1

ETCH BOARD REV		PARTS LIST	
REV	DATE	REV	DATE
1	11-5-71	1	11-5-71
2	11-24-71	2	11-24-71
3	1-30-72	3	1-30-72

REV. 21  
NUMBER DCS H743-0-1

**digital EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS  
TITLE: **CIRCUIT SCHEMATIC H743**

DRN	CHKD	ENG	PROJ ENGR	PROD
M. P. ...	J. ...	J. ...	E. ...	J. ...

DEC NO.	EIA NO.	DEC NO.	EIA NO.
610019	1001	610019	1001

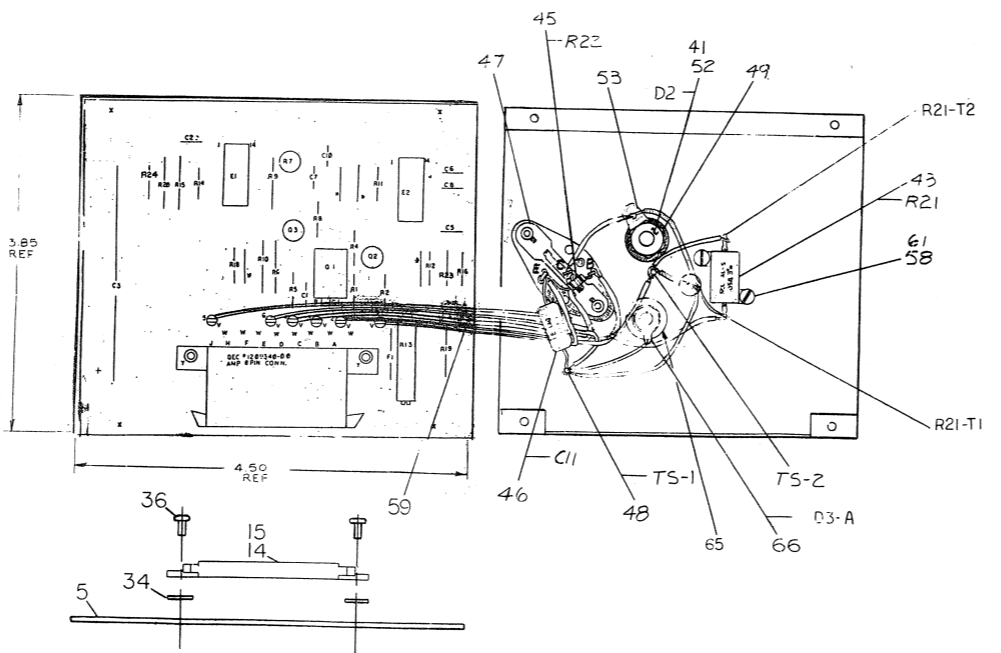
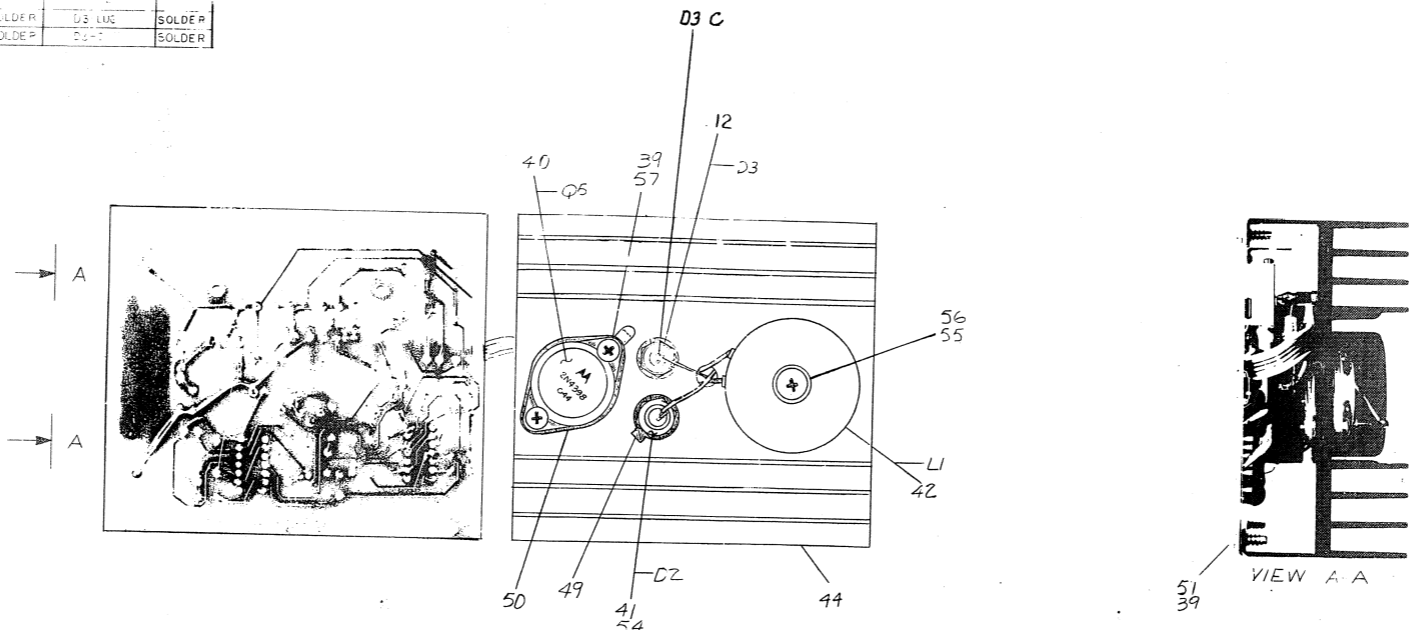
SCALE: NONE  
SHEET 1 OF 1

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ITEM NO	DESCR	FROM	TO	CONNECTION	WITH
19	WHT	SP-1	TS-1	SOLDER	
59	GRN	TS-1	TS-2	SOLDER	
59	BLK	TS-1	TS-2	SOLDER	
59	GRN	TS-1	TS-2	SOLDER	
59	YEL	R21-T1	D2-LUG	SOLDER	
62	WHT/GRN	TS-1	D2	SOLDER	
59	BLK	LI	D2-LUG	SOLDER	
59	BLK	LI	TS-2	SOLDER	
59	GRN	TS-1	D2-LUG	SOLDER	
59	YEL	R21-T1	D2-T	SOLDER	

ITEM NO	DESCRIPTION	POL	FROM	TO	POL
19	RES 20 5% 1/4W	+	TS-E	TS-B	-
40	CAP 100 1001	+	CS-E	TS-1	-

NOTES:  
 1 R15 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT.  
 R7 IS USED FOR OUTPUT CURRENT ADJUSTMENT.  
 2 \* INDICATES JUMPERS TO BE INSTALLED.



QTY	REF DESIGNATION	DESCRIPTION	PART NO	REV	
1	D3	SOLDER LUG	9006764	86	
1	D3	1 X FLAT WASHER	9006614	85	
1	D3	1 X FLAT WASHER	9006614	84	
1	CS	CAP 330UF 10V	1004408	83	
2	A/R	WIRE 22 AWG TRACER WHT/GRN	9101400-95	82	
2	A/R	WASHER INT TOOTH LOCK #2	9006631	81	
2	A/R	WIRE 22 AWG	9101560-91	80	
2	A/R	20 CONNECTOR CABLE	9101512	79	
2	2	SCR BINDING HD 2.5X3/16 SS	9006000-4	58	
1	2	SCR PHIL PAN HD 6-32X1/2 SST	9006024-1	57	
1	2	SCR PHIL TRUSS HD 10-32X1 SST	9006077-3	56	
1	1	WASHER INT TOOTH LOCK #10	9006635	55	
1	1	BUSHING	9004441	54	
1	1	SOLDER LUG	9008150	53	
1	4	NUT HEX 10-32	9008564	52	
1	4	SCR PHIL PAN HDHS 32X3/8 S T	9008407	51	
1	1	THERMAL INSULATOR	9008419	50	
2	2	THERMAL INSULATOR	9008424	49	
1	1	TS1 TS2	9008060	48	
1	1	INSULATED TERM STANDOFF	1210130	47	
1	1	TRANSISTOR SOCKET	1005507	46	
1	1	CAP 1 UF 100-10	1005507	45	
2	2	RES 100 S 1/4 W	1302229	44	
1	1	R21	D-1A-530943-0-0	43	
1	1	HEAT SINK	1313507	42	
1	1	RES 0.1K 1/4W 5	1810513	41	
1	1	120 OHM COIL	1110491	40	
1	1	IN 3889 DIODE	1505870	39	
1	1	2N 4398 TRANSISTOR	9006633	38	
1	1	WASHER INT TOOTH #6	1301532	37	
1	1	R11	RES 27 1/4W 5	1300391	36
1	1	R16	RES 1.5K 1/4W 5	9006145	35
2	2	EYELETS WA 1733 STIMPSON	9006735	34	
6	6	SPLIT LUGS	9006707	33	
2	2	WASHER NYLON	1910415	32	
1	1	IC 723C 0.1 P REGULATOR	1910414	31	
1	1	TRANSISTOR 2N4398 G E	1510414	30	
2	2	D2 D3	TRANSISTOR 2N4398	1503409-00	29
1	1	R8	RES 2.7K 1/4W 5	1309880	28
2	2	R9 R15	RES 3.3K 1/2W 1	1308413	27
1	1	R7	RES 1K 1/2W 20	1308150-3	26
1	1	R13	RES 1K 10 76PR	1308143-07	25
1	1	R20	RES 2.74K 1/8W 1 WF	1303303	24
1	1	R6	RES 1K 1/8W 1 WF	1303114	23
1	1	R19	RES 1K 1/4W 5	1302802	22
1	1	R14	RES 56 1/4W 5	1300445	21
1	1	R10	RES 4.7K 1/2W 5	1301972	20
1	1	R5	RES 270 1/4W 5	1300447	19
1	1	R4	RES 4.7K 1/4W 5	1300385	18
3	3	R1 R2 R12	RES 330 1/4W 5	1300295	17
1	1	R18	RES 1K 1/4W 5	1300297	16
1	1	R24	RES 0.1K 1/4W 10%	1000004	15
1	1	F1	CONNECTOR PIN	1209456	14
1	1	F2	CONN 3 PIN AMP	1209401-01	13
1	1	F3	FUSE 5 AMP	129070	12
1	1	D3	DIODE 1N4563B 5.6V	111241	11
1	1	C8	CAP 02 UF 100V-50% DISC	1000004	10
1	1	C3	CAP 330 UF 30V-10% ELEC	1010509	9
3	3	C1 C5 C16	CAP 01 UF 100V 20% DISC	1001810	8
1	1	C7	CAP 1000 PF 100V 5% MICA	1000016	7
1	1	C2	CAP 100 PF 100V 5% CM	1000014	6
1	1	D6	CAP 88 PF 100V 5% CM	1000014	5
1	1	D5	ETCH CIRCUIT BOARD	5000502	4
1	1	D4	MODULE ECU HISTORY	B-M-5409503-0-6	3
1	1	D3	ASST DRILLING HOLE LAYOUT	D-M-5409503-0-5	2
1	1	D2	COORDINATE HOLE LOCATION	S-D-5409503-0-4	1
1	1	D1	CIRCUIT SCHEMATIC	D-CS-5409503-0-1	1

REV	DESCRIPTION
1	ISSUED FOR PRODUCTION

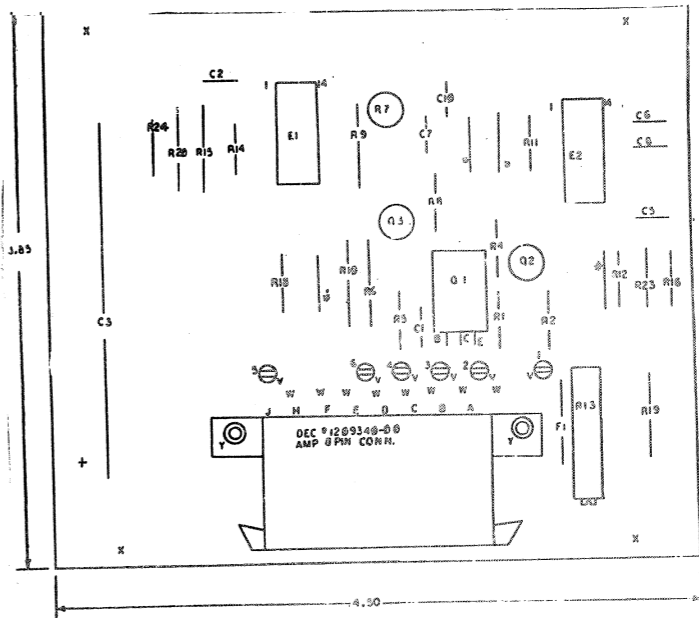
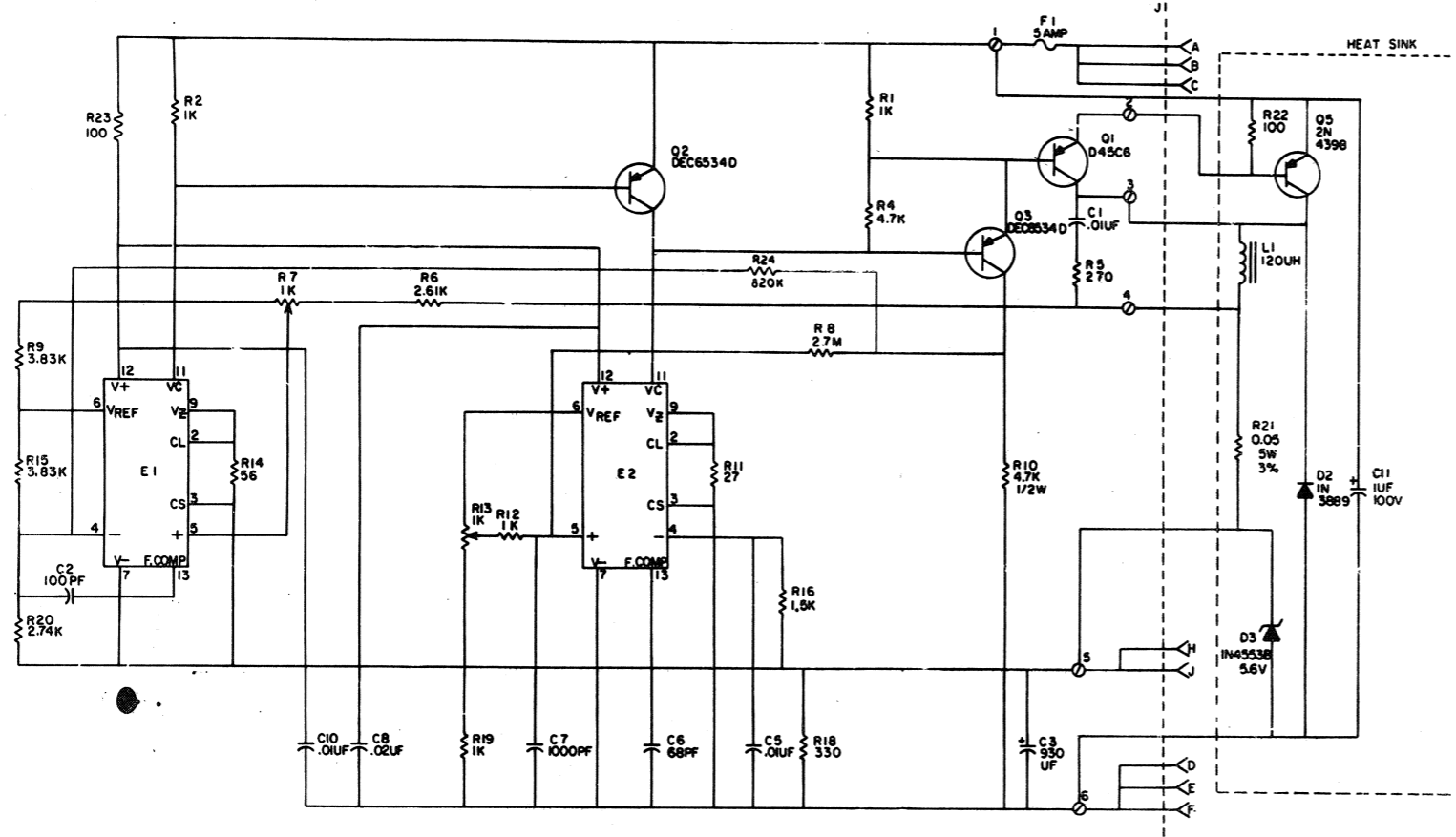
REV	DESCRIPTION
1	ISSUED FOR PRODUCTION

REV	DESCRIPTION
1	ISSUED FOR PRODUCTION

REV	DESCRIPTION
1	ISSUED FOR PRODUCTION



THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY COPYRIGHT 1971 BY DIGITAL EQUIPMENT CORPORATION



DATE CODE D CS NUMBER 5409503-0-1 REV M

DEC FORM NO. 980 118

REV	DATE	BY	CHKD	APP'D
1	6-2-71	S. CORPORA		
2	6-7-71	W. H. HENRICH		
3	7-7-71	W. H. HENRICH		
4	7-7-71	W. H. HENRICH		
5	7-7-71	W. H. HENRICH		
6	7-7-71	W. H. HENRICH		
7	7-7-71	W. H. HENRICH		
8	7-7-71	W. H. HENRICH		
9	7-7-71	W. H. HENRICH		
10	7-7-71	W. H. HENRICH		
11	7-7-71	W. H. HENRICH		
12	7-7-71	W. H. HENRICH		
13	7-7-71	W. H. HENRICH		
14	7-7-71	W. H. HENRICH		
15	7-7-71	W. H. HENRICH		
16	7-7-71	W. H. HENRICH		
17	7-7-71	W. H. HENRICH		
18	7-7-71	W. H. HENRICH		
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20	7-7-71	W. H. HENRICH		

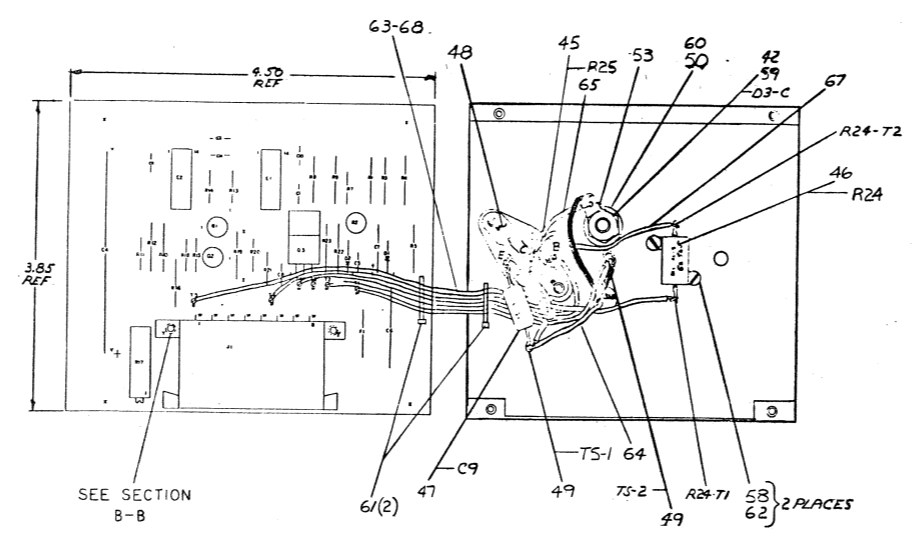
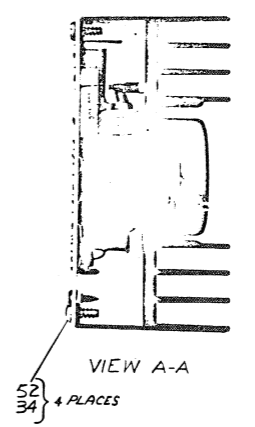
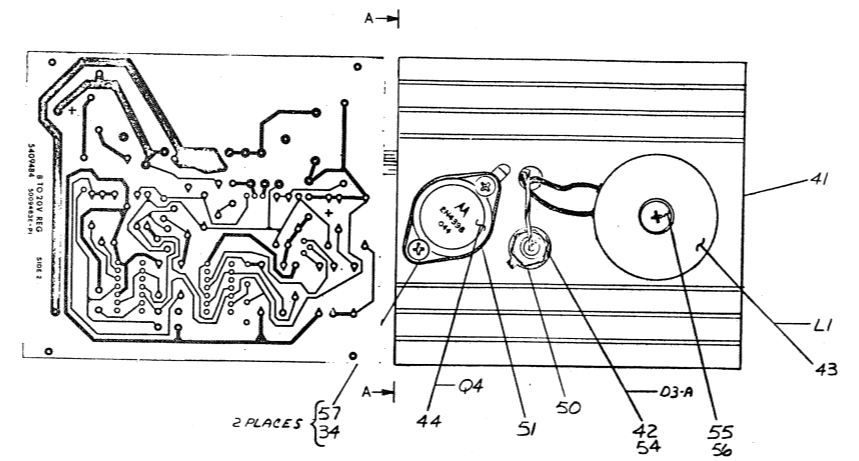
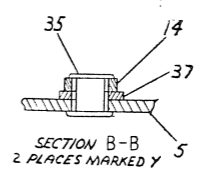
DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART
5	6-2-71	DEC EIA DEC DEC
W. H. HENRICH	6-7-71	DEC6534C MPS6534C IN752A SAME
W. H. HENRICH	7-7-71	D45C6 IN3889 SAME
W. H. HENRICH	7-7-71	2N4398 2N4398

TITLE		NUMBER		REV
15 VOLT REGULATOR		5409503-0-1		M
DATE	CODE	NUMBER	REV	
D	CS	5409503-0-1	M	
EQUIPMENT CORPORATION				
MAYFORD, MASSACHUSETTS				
PRINTED CIRCUIT REV. F				

PINKY

WIRE TABLE					EXTERNAL COMPONENTS				
ITEM	DESCRIPTION	LENGTH INCHES	STRIP LENGTH	CONNECTIONS FROM TO	ITEM NO.	LENGTH INCHES	DESCRIPTION	POL.	CONNECTIONS FROM TO
43	BLK	2 7/8	1/2	L1	Q3-A	45	RES 100 OHMS	C	Q3-B
45	BLU	2 1/4	1/2	Q4-C	Q3-C	46	RES 100 OHMS	C	Q3-B
47	GRN	4 1/2	1/2	R24-T1	Q3-C	47	RES 100 OHMS	C	Q3-B
48	WHT	5 1/2	1/2	R24-T1	Q3-C	48	RES 100 OHMS	C	Q3-B
49	GRN	4 1/2	1/2	R24-T1	Q3-C	49	RES 100 OHMS	C	Q3-B
50	GRN	4 1/2	1/2	R24-T1	Q3-C	50	RES 100 OHMS	C	Q3-B
51	GRN	4 1/2	1/2	R24-T1	Q3-C	51	RES 100 OHMS	C	Q3-B
52	GRN	4 1/2	1/2	R24-T1	Q3-C	52	RES 100 OHMS	C	Q3-B
53	GRN	4 1/2	1/2	R24-T1	Q3-C	53	RES 100 OHMS	C	Q3-B
54	GRN	4 1/2	1/2	R24-T1	Q3-C	54	RES 100 OHMS	C	Q3-B
55	GRN	4 1/2	1/2	R24-T1	Q3-C	55	RES 100 OHMS	C	Q3-B
56	GRN	4 1/2	1/2	R24-T1	Q3-C	56	RES 100 OHMS	C	Q3-B

- 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 #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.

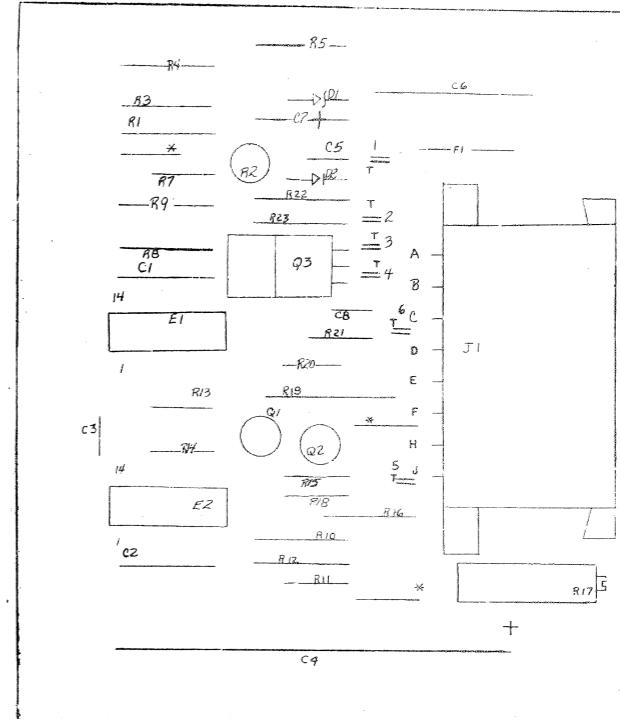
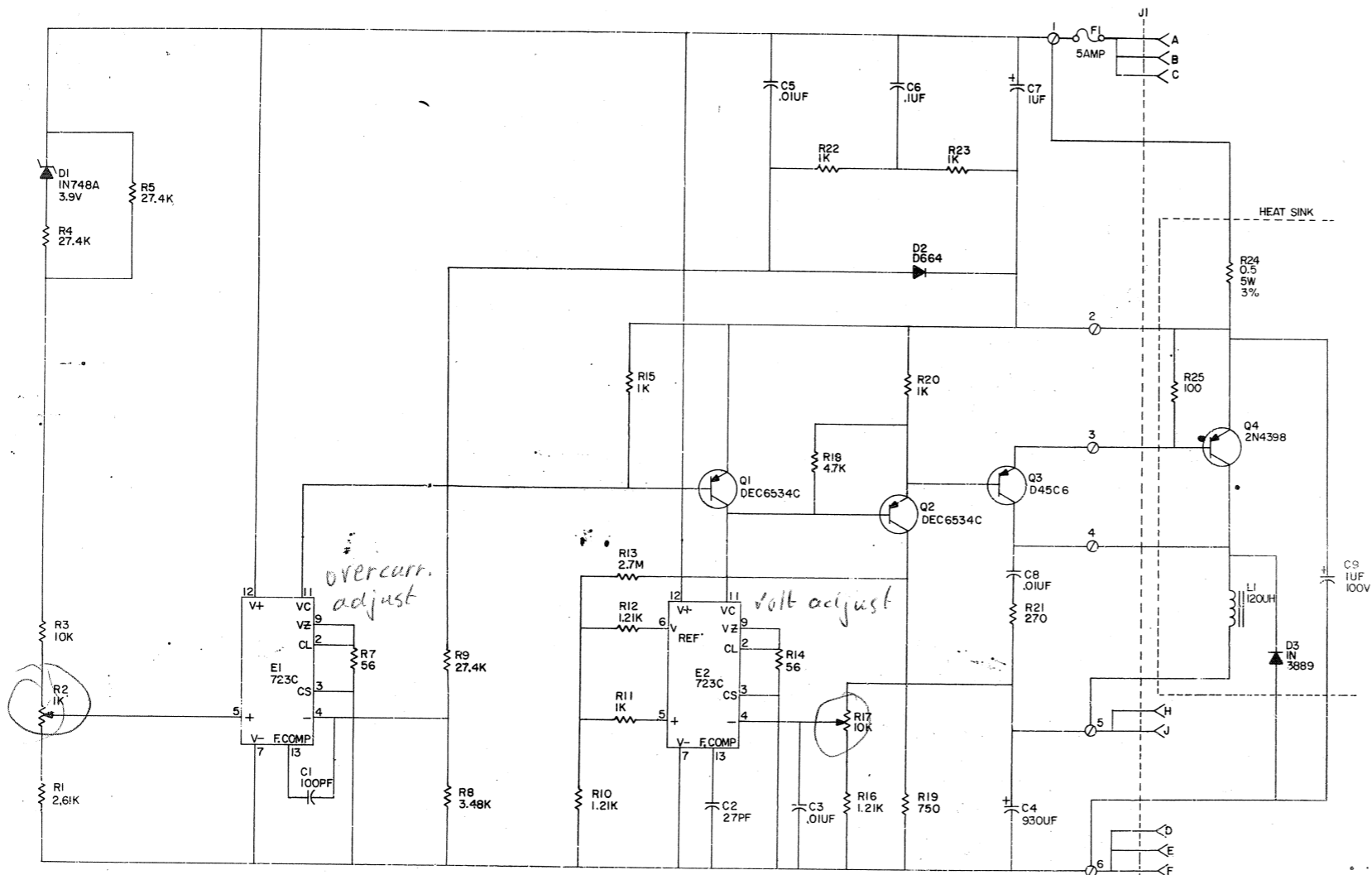


QTY.	DESCRIPTION	PART NO.	REV.
	8 TO 20V REGULATOR		

DATE	11/21	DATE	11/21
DESIGNED BY	...	DESIGNED BY	...
CHECKED BY	...	CHECKED BY	...
APPROVED BY	...	APPROVED BY	...
SCALE	AS SHOWN	SCALE	AS SHOWN
SHEET	1 OF 1	SHEET	1 OF 1

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



QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.
1	R6	FOR FUTURE USE	
8	J1	CONNECTOR PINS	1209456
1	F1	AMP 5 AMP CONNECTOR (MATE & LOCK)	1209340-09
1		EYELET	1209070
2		SPLIT LUGS	9006745
2		WASHER, NYLON	9006735
2	R1, 2	DIP REGULATOR 723C	9006707
1	Q3	TRANSISTOR D45C6	1302415
1	Q1, 2	TRANSISTOR DEC 6534C	1302414
1	R3	RES. 2.7M 5%	1303409-02
1	R4	RES. 27.4K 1/8W 1% MF	1309880
3	R4, 9, 5	RES. 27.4K 1/8W 1% MF	1309411
1	R2	RES. VARIABLE 1K 4W	1309150-33
1	R17	RES. VARIABLE 10K 3/4W 2%	1309141-10
1	R8	RES. 3.48K 1/8W 1% MF	1305552
1	R9	RES. 2.7M 5%	1305552
1	R3	RES. 2.7M 5%	1305113
1	R8	RES. 3.48K 1/8W 1% MF	1305113
1	R9	RES. 2.7M 5%	1303312
2	R22, 23	RES. 1K 1/8W 1% MF	1303414
1	R1	RES. 2.61K 1/8W 1% MF	1303303
3	R10, 12, 16	RES. 1.21K 1/8W 1% MF	1302871
2	R7, 14	RES. 56 4W 5%	1302602
1	R19	RES. 750 1W 5%	1302385
1	R21	RES. 270 4W 5%	1301972
1	R18	RES. 4.7K 4W 5%	1300487
3	R11, 15, 20	RES. 1K 4W 5%	1300365
1	D1	DIODE ZENER 1N748A 3.9V	1100122
1	D2	DIODE D664	1100114
1	C4	CAP. 930UF 30V -10% 75%	1010809
1	C6	CAP. .1UF 100V 10% NYLAR	1012342
1	C7	CAP. 1UF 35V 10% S. TANT	1001776
1	C2	CAP. 27PF 100V 5% 50%	1001739
3	C3, 5	CAP. .01UF 100V 20% D	1001610
1	C1	CAP. 100PF 100V 5% 50%	1000016
1		ETCHED CIRCUIT BOARD	5009483
1		MODULE ECO HISTORY	B-MH-5409484-D-6
1		ASBY/DRILLING HOLE LAYOUT	B-MH-5409484-D-5
1		X-Y COORDINATE HOLE LOCAT	B-MH-5409484-D-4
1		DESCRIPTION	DEC PART NO.
1		PARTS LIST	

AR	DESCRIPTION	QTY	DEC PART NO.
1	8 TO 20V REGULATOR	1	E-IA-5409484-0-0
1	20 CONDUCTOR CABLE	1	91-07575
1	#10/32 HEX NUT	56	9006584
2	2/56 X 3/16" SCREW	56	9006000-4
2	6/32 X 1/4" PAN HD SCREW	54	9006024
1	10/32 X 1" TRUSS HD SCREW	53	9006077-3
1	#10 INTERNAL LOCK WASHER	52	9006635
1	BUSHING (DIODE)	51	9006441
1	SOLDER LUG	50	9006150
4	#6 SELP TAPING SCREW	49	9006201
1	THERMAL INSULATOR	48	9008119

QTY.	DESCRIPTION	DEC PART NO.
2	THERMAL INSULATOR	9008119
1	STAND OFF (STUD TYPE)	9009060
1	TRANSISTOR SOCKET	1210130
1	CAP. 1UF 100V	1005507
1	RES. 0.5 3/8 5W	1310508
1	RES. 100 5% 4W	1300329
1	TRANSISTOR 2N4398	1305870
1	120UH CHOK	1610573
1	DIODE 1N3889	1100421
1	HEAT SINK	5309241
1	DESCRIPTION	DEC PART NO.
1	PARTS LIST	

TRANSISTOR & DIODE CONVERSION CHART

DEC	DEC	DEC	DEC
DEC 6534C	MPS6533	DEC 6534	IN3804
IN748A	SAME	IN748A	SAME

8 TO 20 V REGULATOR

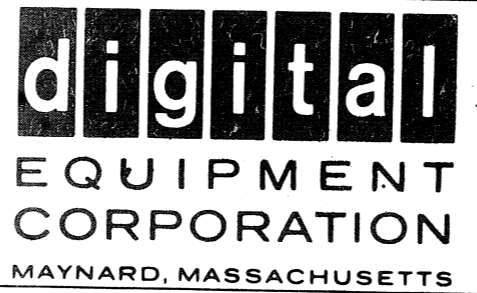
EQUIPMENT CORPORATION

5409484-0-1

PRINTED CIRCUIT REV. D

DRWG NO	REV LTR
K-WL-RK05-0-3	B

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RK05-00014	7/72	Ed
B	RK05-00031	2/73	Ed

<table border="1"> <tr> <td>DRAWN</td> <td>DATE</td> </tr> <tr> <td>RE Hellen</td> <td>11/8/71</td> </tr> <tr> <td>CHECKED</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>11-9-71</td> </tr> <tr> <td>ENG</td> <td>DATE</td> </tr> <tr> <td>Daly Jensen</td> <td>24 Nov 71</td> </tr> <tr> <td>PROJ ENG</td> <td>DATE</td> </tr> <tr> <td>EL Simmons</td> <td>11-24-71</td> </tr> <tr> <td>PROD</td> <td>DATE</td> </tr> <tr> <td>Alan Karlberg</td> <td>11/29/71</td> </tr> </table>	DRAWN	DATE	RE Hellen	11/8/71	CHECKED	DATE	<i>[Signature]</i>	11-9-71	ENG	DATE	Daly Jensen	24 Nov 71	PROJ ENG	DATE	EL Simmons	11-24-71	PROD	DATE	Alan Karlberg	11/29/71		TITLE WIRE LIST (RK05)
DRAWN	DATE																					
RE Hellen	11/8/71																					
CHECKED	DATE																					
<i>[Signature]</i>	11-9-71																					
ENG	DATE																					
Daly Jensen	24 Nov 71																					
PROJ ENG	DATE																					
EL Simmons	11-24-71																					
PROD	DATE																					
Alan Karlberg	11/29/71																					
ASSY NO	FOR	SIZE	CODE	DWG. NO.	REV LTR																	
D-AD-7008696-0-0	TAPE #	K	WL	RK05-0-3	B																	
SCALE NONE	SHEET	OF	DIST.																			



RPK051,1,1,1	WRP288, V22(22)	11/06/73	11-FEB-74	23:14	PAGE 2
RUN NAME	A/P PIN NAME	ORDER PIN ORDER	LENGTH	EXCEPTIONS	RUN NUMBER
BUS I-DETX PUL	L A02K1	1-01			11
BUS I-DETX PUL	L B08M1	1-02			11
BUS I-DETX PUL	L B07M1	1-03			11
BUS I-DETX PUL	L B07M1	1	10=7/8		11
BUS R/W/S READY	L A02M1	1-01			12
BUS R/W/S READY	L A07H2	1-02			12
BUS R/W/S READY	L A08H2	1-03			12
BUS R/W/S READY	L A08H2	1	9=6/8		12
BUS SECTOR ADDR	L A02H1	1-01			13
BUS SECTOR ADDR	L R08L1	1-02			13
BUS SECTOR ADDR	L R07L1	1-03			13
BUS SECTOR ADDR	L R07L1	1	11=0/8		13
BUS SECTOR ADDR 1	L A02J1	1-01			14
BUS SECTOR ADDR 1	L A07P2	1-02			14
BUS SECTOR ADDR 1	L A08P2	1-03			14
BUS SECTOR ADDR 1	L A08P2	1	9=6/8		14
BUS SECTOR ADDR 2	L A02L1	1-01			15
BUS SECTOR ADDR 2	L R07K2	1-02			15
BUS SECTOR ADDR 2	L R08K2	1-03			15
BUS SECTOR ADDR 2	L R08K2	1	10=2/8		15
BUS SECTOR ADDR 3	L A02P1	1-01			16
BUS SECTOR ADDR 3	L R07J1	1-02			16
BUS SECTOR ADDR 3	L R08J1	1-03			16
BUS SECTOR ADDR 3	L R08J1	1	10=2/8		16
BUS SECTOR PULSE	L A02F1	1-01			17
BUS SECTOR PULSE	L R08N2	1-02			17
BUS SECTOR PULSE	L R07N2	1-03			17
BUS SECTOR PULSE	L R07N2	1	11=2/8		17
BUS SEEK INCOMPLETE	L A02N1	1-01			18
BUS SEEK INCOMPLETE	L A07S2	1-02			18
BUS SEEK INCOMPLETE	L A08S2	1-03			18
BUS SEEK INCOMPLETE	L A08S2	1	9=4/8		18
BUS WR PROTECT STATUS	H R04U1	1-01			19
BUS WR PROTECT STATUS	H R07P1	1-02			19
BUS WR PROTECT STATUS	H R08P1	1-03			19
BUS WR PROTECT STATUS	H R08P1	1	8=4/8		19

RPK051,1,1,1	WRP288, V22(22)	11/06/73	11-FEB-74	23:14	PAGE 3
RUN NAME	A/P PIN NAME	ORDER PIN ORDER	LENGTH	EXCEPTIONS	RUN NUMBER
BUS WHITE CK	H R04P1	1-01			20
BUS WHITE CK	H R07K1	1-02			20
BUS WHITE CK	H R08K1	1-03			20
BUS WHITE CK	H R08K1	1	8=4/8		20
COS POSITION	H A05U1	1-01			21
COS POSITION	H R06B1	1-02			21
COS POSITION	H R06B1	1	4=1/8		21
COUNT PULSE FWD	H A05A1	1-01			22
COUNT PULSE FWD	H R03K1	1-02			22
COUNT PULSE FWD	H R03K1	1	7=6/8		22
COUNT PULSE REV	H A05C1	1-01			23
COUNT PULSE REV	H R03F1	1-02			23
COUNT PULSE REV	H R03F1	1	7=0/8		23
CYC ADDR 0	L A07K1	1-01			24
CYC ADDR 0	L A08K1	1-02			24
CYC ADDR 0	L R03D1	1-03			24
CYC ADDR 0	L R03D1	1	10=5/8		24
CYC ADDR 1	L A07D1	1-01			25
CYC ADDR 1	L A08D1	1-02			25
CYC ADDR 1	L R03N1	1-03			25
CYC ADDR 1	L R03N1	1	11=3/8		25
CYC ADDR 2	L A08L1	1-01			26
CYC ADDR 2	L A07L1	1-02			26
CYC ADDR 2	L R03P1	1-03			26
CYC ADDR 2	L R03P1	1	10=5/8		26
CYC ADDR 3	L A07C1	1-01			27
CYC ADDR 3	L A08C1	1-02			27
CYC ADDR 3	L R03M1	1-03			27
CYC ADDR 3	L R03M1	1	11=3/8		27
CYC ADDR 4	L A07F1	1-01			28
CYC ADDR 4	L A08F1	1-02			28
CYC ADDR 4	L R03R1	1-03			28
CYC ADDR 4	L R03R1	1	11=3/8		28
CYC ADDR 5	L A07J1	1-01			29
CYC ADDR 5	L A08J1	1-02			29
CYC ADDR 5	L R03U1	1-03			29
CYC ADDR 5	L R03U1	1	11=4/8		29

RP288,V22(22) 11/06/73	11-FEB-74		23:14		PAGE 4	
RP288,V22(22) 11/06/73	LENGTH	EXCEPTIONS	LENGTH	EXCEPTIONS	RUN	NUMBER
A/P	Q	REMARKS	X	Z		
NAME	ORDER		PG	Y		
PIN	PIN		RV	PG		
ORDER	ORDER		Y	Y		
CYC ADDR 6	L	A08E1	D05-6		2	30
CYC ADDR 7	L	A07E1	D05-6		1	30
CYC ADDR 8	L	R03V1	D05-6			30
CYC ADDR 9	L					30
CYC ADDR 10	L	A07H1	D05-6		2	31
CYC ADDR 11	L	A08H1	D05-6		1	31
CYC ADDR 12	L	B03S1	D05-6			31
CYC ADDR 13	L					31
DC LOW	H	A04D1	D05-8		1	32
DC LOW	H	B07F2	D05-8		2	32
DC LOW	H		D05-8			32
DIFF 1	L	A03A1	D05-7		1	33
DIFF 2	L	B05N2	D05-7			33
DIFF 3	L					33
DIFF 4	L	A03E1	D05-7		1	34
DIFF 5	L	B05T2	D05-7			34
DIFF 6	L					34
DIFF 7	L	A03B1	D05-7		1	35
DIFF 8	L	B05P2	D05-7			35
DIFF 9	L					35
DIFF 10	L	A03D1	D05-7		1	36
DIFF 11	L	B05R2	D05-7			36
DIFF 12	L					36
DIFF 13	L	A03C1	D05-7		1	37
DIFF 14	L	B05S2	D05-7			37
DIFF 15	L					37
DIFF 16	L	A04M1	D05-8		1	38
DIFF 17	L	B06P1	D05-8			38
DIFF 18	L					38
DIFF 19	L	A06P1	D05-8		1	39
DIFF 20	L	B04V1	D05-8			39
DIFF 21	L					39
DIFF 22	L	A04N2	D05-8		1	40
DIFF 23	L	B06H1	D05-8			40
DIFF 24	L					40

RP288,V22(22) 11/06/73	11-FEB-74		23:14		PAGE 5	
RP288,V22(22) 11/06/73	LENGTH	EXCEPTIONS	LENGTH	EXCEPTIONS	RUN	NUMBER
A/P	Q	REMARKS	X	Z		
NAME	ORDER		PG	Y		
PIN	PIN		RV	PG		
ORDER	ORDER		Y	Y		
FWD	H	B03J1	D05-5		1	41
FWD	H	B05J2	D05-5			41
FWD	H					41
GND 01		A01C2			1	42
GND 02		A01T1			2	42
GND 03		B01C2			1	42
GND 04		R01T1			1	42
GND 05						42
GND 06		A02C2			1	43
GND 07		A02T1			2	43
GND 08		R02C2			1	43
GND 09		H02T1			1	43
GND 10						43
GND 11		A03C2			1	44
GND 12		A03T1			2	44
GND 13		R03C2			1	44
GND 14		R03T1			1	44
GND 15						44
GND 16		A04C2			1	45
GND 17		A04T1			2	45
GND 18		B04C2			1	45
GND 19		R04T1			1	45
GND 20						45
GND 21		A05C2			1	46
GND 22		A05T1			2	46
GND 23		R05C2			1	46
GND 24		R05T1			1	46
GND 25						46
GND 26		A06C2			1	47
GND 27		A06T1			2	47
GND 28		R06C2			1	47
GND 29		R06C1	D05-9		2	47
GND 30		R06E1	D05-9		1	47
GND 31		R06J1	D05-9		2	47
GND 32		H06T1	D05-9		1	47
GND 33		R06S1	D05-9		1	47
GND 34						47

WK05Ld.b	WRP288,V22(22)	11/06/73	11-FEB-74	23:14	PAGE 6	
RUN NAME	A/P PIN NAME	ORDER PIN	Q DRAW RV PG Y X Z	REMARKS	LENGTH EXCEPTIONS	RUN NUMBER
GND 07	A07B2	1-01				48
GND 07	A07C2	1-02				48
GND 07	A07M1	1-03				48
GND 07	A07P1	1-04				48
GND 07	A07R1	1-05				48
GND 07	A07S1	1-06				48
GND 07	A07T1	1-07				48
GND 07	A07V1	1-08				48
GND 07	B07B2	1-09				48
GND 07	B07C2	1-10				48
GND 07	B07D1	1-11				48
GND 07	B07E1	1-12				48
GND 07	B07T1	1-13				48
GND 07	B07V2	1-14				48
GND 08	A08B2	1-01			37-2/8	48
GND 08	A08C2	1-02				49
GND 08	A08M1	1-03				49
GND 08	A08P1	1-04				49
GND 08	A08R1	1-05				49
GND 08	A08S1	1-06				49
GND 08	A08T1	1-07				49
GND 08	A08V1	1-08				49
GND 08	B08B2	1-09				49
GND 08	B08C2	1-10				49
GND 08	B08D1	1-11				49
GND 08	B08E1	1-12				49
GND 08	B08T1	1-13				49
GND 08	B08V2	1-14				49
GOOD STROBE	L B02E1	1-01		D05=5	37-2/8	50
GOOD STROBE	L B03D1	1-02		D05=5		50
HEAD SELECT	L A01P1	1-01		D05=1	3-6/8	51
HEAD SELECT	L R07M2	1-02		D05=1		51
HEAD SELECT	L R08M2	1-03		D05=1		51
HIGH DENSITY	L A01R2	1-01		D05=4	11-3/8	51
HIGH DENSITY	L R07P2	1-02		D05=4		52
HIGH DENSITY	L R08P2	1-03		D05=4		52
HIGH DENSITY					10-3/8	52

WK05Ld.b	WRP288,V22(22)	11/06/73	11-FEB-74	23:14	PAGE 7	
RUN NAME	A/P PIN NAME	ORDER PIN	Q DRAW RV PG Y X Z	REMARKS	LENGTH EXCEPTIONS	RUN NUMBER
HOME	L A04R1	1-01		D05=7	9-6/8	53
HOME	L R03B1	1-02		D05=7		53
HOME	L R06F1	1-03		D05=7		53
INDEX PULSE	L A02R2	1-01		D05=3		54
INDEX PULSE	L A04J1	1-02		D05=3	4-1/8	54
INDEX/SECTOR	L B02D1	1-01		D05=5		55
INDEX/SECTOR	L R04H2	1-02		D05=5		55
INNER LIMIT	H A05B1	1-01		D05=2		56
INNER LIMIT	H A03U1	1-02		D05=2		56
INNER LIMIT	H R02J1	1-03		D05=2		56
INTERLOCK	L A04H1	1-01		D05=7	11-0/8	57
INTERLOCK	L A06R1	1-02		D05=7		57
LIMIT	H A05K1	1-01		D05=9	4-3/8	58
LIMIT	H R06H1	1-02		D05=9		58
LOAD HEADS	L B03C1	1-01		D05=6	6-0/8	59
LOAD HEADS	L R04C1	1-02		D05=6		59
LOAD IND	H A04L1	1-01		D05=8	3-4/8	60
LOAD IND	H A06A1	1-02		D05=8		60
LOAD INU	L A06K1	1-01		D05=7	4-3/8	61
LOAD SW	L R04D1	1-02		D05=7		61
MOVE	L A03L1	1-01		D05=2	6-0/8	62
MOVE	L R02P1	1-02		D05=2		62
NO PROTECT	L A01N2	1-01		D05=1	6-6/8	63
NO PROTECT	L R04H1	1-02		D05=1	6-2/8	63



RK05LH,P RUN NAME	WRP288,V22(22) 11/06/73	11-FEB-74	23114	PAGE 8
A/P PIN NAME	ORDER PIN	BAY ORDER	LENGTH EXCEPTIONS	RUN NUMBER
ON	L A02A1	1-01		64
ON	L A03M1	1-02		64
		1	4-6/8	64
OUTER LIMIT	H A03K1	1-01		65
OUTER LIMIT	H A04K1	1-02		65
OUTER LIMIT	H A05D1	1-03		65
		1	7-4/8	65
POWER AMP DR	H R05U2	1-01		66
POWER AMP DR	H R06M1	1-02		66
		1	4-0/8	66
PROTECT IND	H A06C1	1-01		67
PROTECT IND	H R04U2	1-02		67
		1	8-2/8	67
PWR SEC XNSDUR	H A02D1	1-01		68
PWR SEC XNSDUR	H R06K1	1-02		68
		1	8-2/8	68
R/W/S READY	H A03P1	1-01		69
R/W/S READY	H R04J1	1-02		69
R/W/S READY	H R02L1	1-03		69
		1	10-0/8	69
R/W/S READY	L A01P2	1-01		70
R/W/S READY	L R02K1	1-02		70
		1	5-4/8	70
READ CLOCK	L A01F2	1-01		71
READ CLOCK	L R07S1	1-02		71
READ CLOCK	L R08S1	1-03		71
		1	11-4/8	71
READ DATA	L A01E2	1-01		72
READ DATA	L R07S2	1-02		72
READ DATA	L R08S2	1-03		72
		1	11-7/8	72
READ GATE	L A01K2	1-01		73
READ GATE	L R08R1	1-02		73
READ GATE	L R07R1	1-03		73
		1	11-3/8	73

RK05LH,P RUN NAME	WRP288,V22(22) 11/06/73	11-FEB-74	23114	PAGE 9
A/P PIN NAME	ORDER PIN	BAY ORDER	LENGTH EXCEPTIONS	RUN NUMBER
READ IND	H A02E2	1-01		74
READ IND	H A06J1	1-02		74
		1	5-2/8	74
READY	H A02C1	1-01		75
READY	H A04U1	1-02		75
		1	5-6/8	75
READY IND	H A06B1	1-01		76
READY IND	H R04N1	1-02		76
		1	8-0/8	76
RESTORE	H A02H1	1-01		77
RESTORE	H A03J1	1-02		77
		1	3-7/8	77
RESTORE	L A08M1	1-01		78
RESTORE	L A07M1	1-02		78
RESTORE	L R02R1	1-03		78
		1	10-2/8	78
REV	H R03H1	1-01		79
REV	H R05K2	1-02		79
		1	4-4/8	79
RK=110	L A08U1	1-01		80
RK=110	L A07U1	1-02		80
RK=110	L R02U1	1-03		80
		1	10-2/8	80
RTZ	L A03F1	1-01		81
RTZ	L R02C1	1-02		81
		1	6-0/8	81
RUN SW	L A06L1	1-01		82
RUN SW	L R04L1	1-02		82
		1	6-6/8	82
SECTOR	L A02S2	1-01		83
SECTOR	L R04K1	1-02		83
		1	5-6/8	83
SECTOR/INDEX RAW	H A02E1	1-01		84
SECTOR/INDEX RAW	H R06L1	1-02		84
		1	8-4/8	84

