

**RK05**  
**disk drive**  
**engineering drawings**

*R. Tinga,*  
*23706.*

digital equipment corporation • maynard, massachusetts

**CUSTOMER PRINT SET INDEX**

THIS IS PRINT SET X

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

SEQUENCE

E-DD-RK05-0 SHEET #1 ONLY   
C-MU-RK05-0-2  
D-CS-G180-0-1  
D-CS-M7700-0-1  
D-CS-M7702-0-1  
D-CS-M7701-0-1  
D-CS-G938-0-1  
D-CS-H004-0-1  
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-AL-RK05-0-17  
B-DD-H743-0  
K-WL-RK05-0-3

SEQUENCE

MFG. PRINT SET  
  
MODULE UTILIZATION (PL)  
RK05 TESTER  
DECPACK ASSY  
DECPACK ASSY (PL)  
WIRED ASSY  
LINEAR POSITIONER ASSY  
LINEAR POSITIONER ASSY (PL)  
H743 POWER SUPPLY  
  
A-PL-RK05-0-2  
B-DD-RK05-T  
D-UA-RK05-0-0  
A-PL-RK05-0-0  
D-AD-7008696-0-0  
D-AD-7008702-0-0  
A-PL-7008702-0-0  
B-DD-H743-0

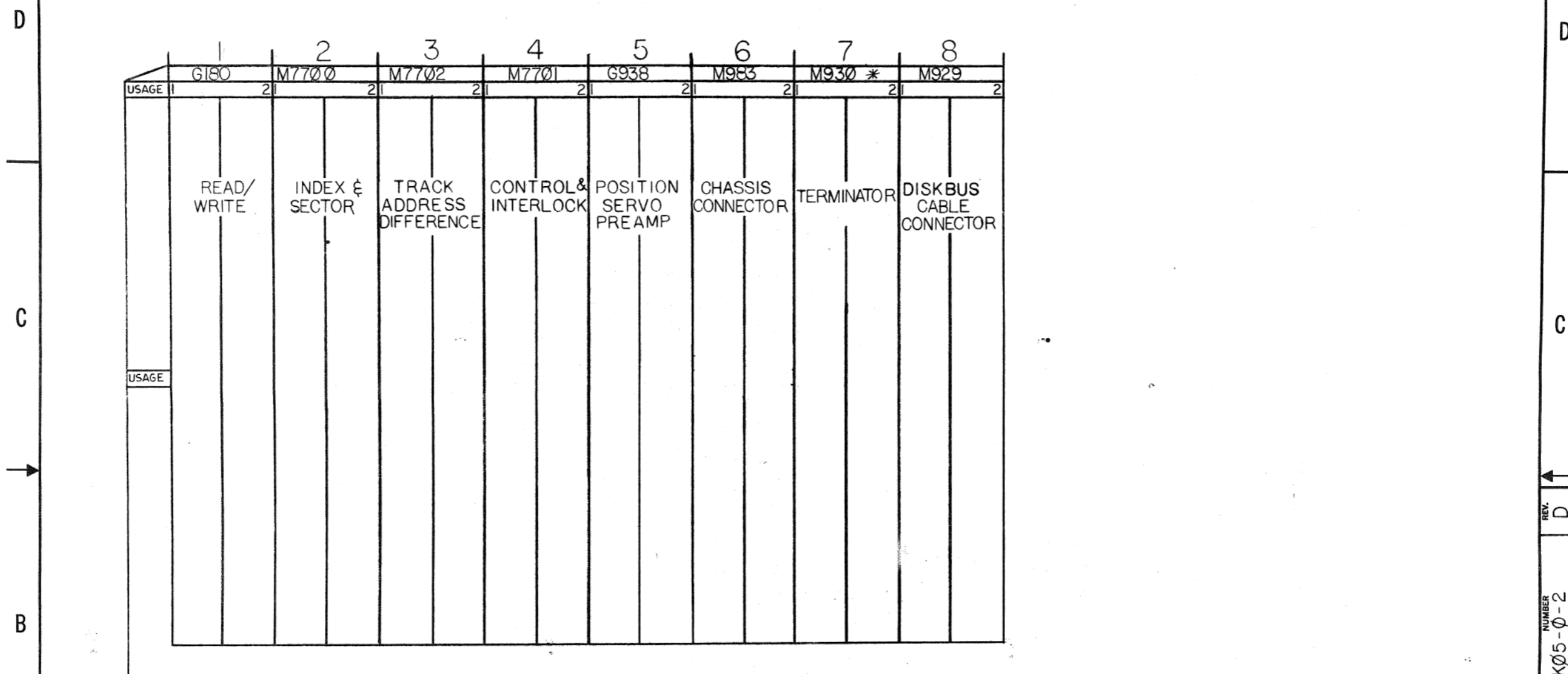
UNIT VARIATIONS		PRINT SET TYPE			
VARIATION	TITLE	RK05-0			
RK05-AA	DECPACK 115V 60HZ	X			
RK05-AB	DECPACK 230V 60HZ	X			
RK05-BA	DECPACK 115V 50HZ	X			
RK05-BB	DECPACK 230V 50HZ	X			
RK05-CA	RK05-AA, H967				
RK05-CD	RK05-BB, H967				
RK05-DE	RK05-AA, H960, 861 POWER CONTROL				
RK05-DF	RK05-AB, H960,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

REVISIONS	DATE	CHG. NO.	REV
		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>[Signature]</i>	5-2-72			
	<i>[Signature]</i>	5/2/72			
	<i>[Signature]</i>	5/4/72			
	<i>[Signature]</i>	5/4/72			
			SIZE CODE	NUMBER	REV.
			B DD	RK05-0	AD
			DIST		

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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	REV.	CHANGE NO.
	A	RK05-00002
	B	RK05-00006
	C	RK05-00023
	D	RK05-00040

REVISIONS

D. JENSEN  
M. Jensen 2-9-72  
JENSEN  
E. Allen 7-7-73  
G. SCHNEIDER

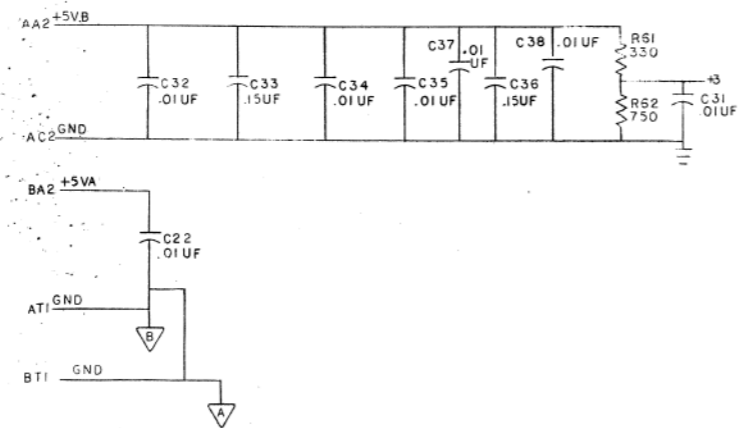
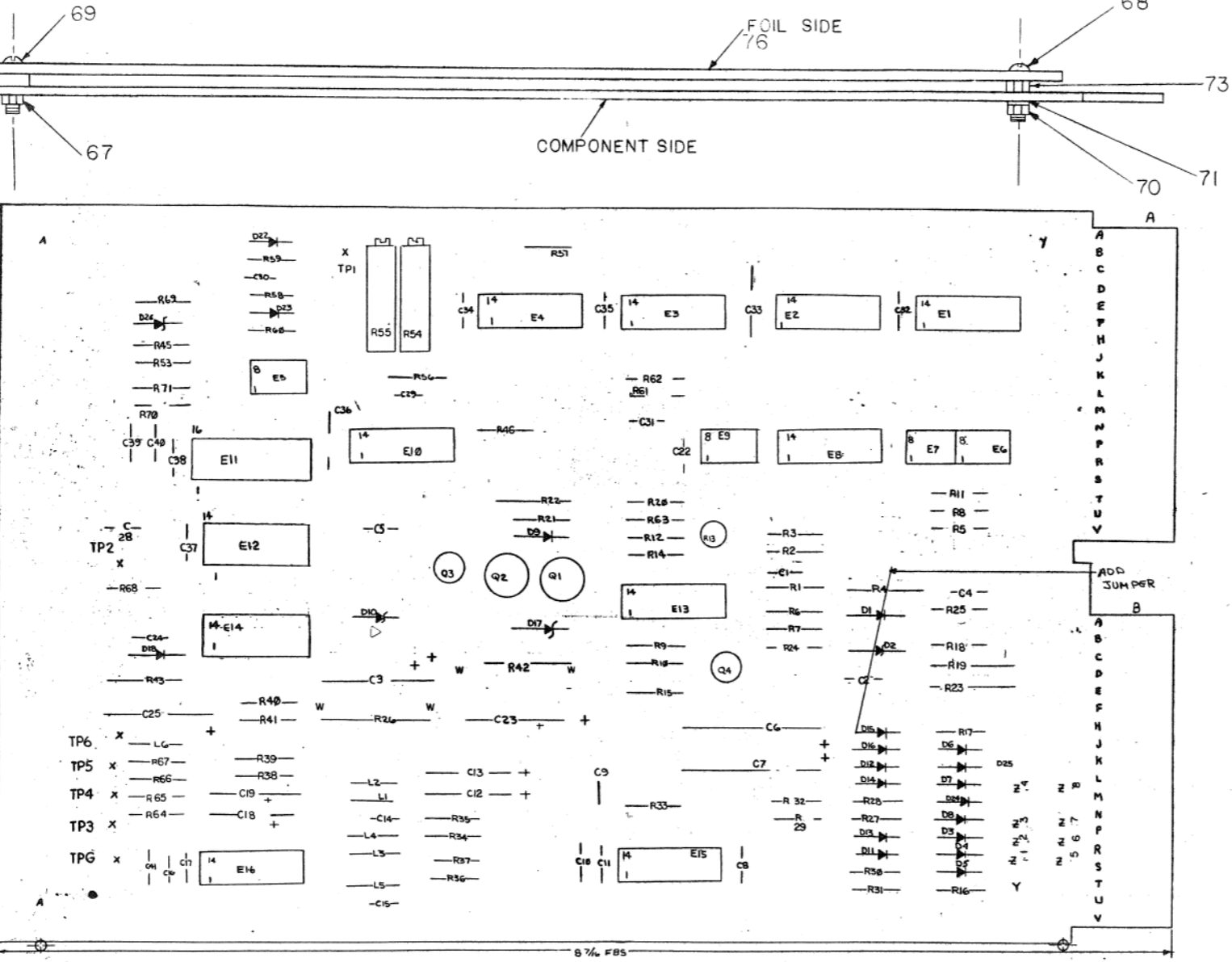
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>D. Schmidt</i>	DATE 11-2-71	<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE MODULE UTILIZATION
DECIMALS .XXX = .005 .XX = .02 .X = .1		CHK <i>J. L. Conroy</i>	DATE 11-9-71	
ANGLES ± 0° 30'		ENG <i>John Jensen</i>	DATE 24 Nov 71	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PROJ. ENG. <i>C. L. Johnson</i>	DATE 11-24-71	
MATERIAL	++	PROD. <i>D. A. Silver</i>	DATE 11-7-71	
FINISH	++	NEXT HIGHER ASSY.		
		B-DD-RK05-0	SIZE CODE C MU	NUMBER RK05-0-2
		SCALE NONE		REV. D
		SHEET OF	DIST.	

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

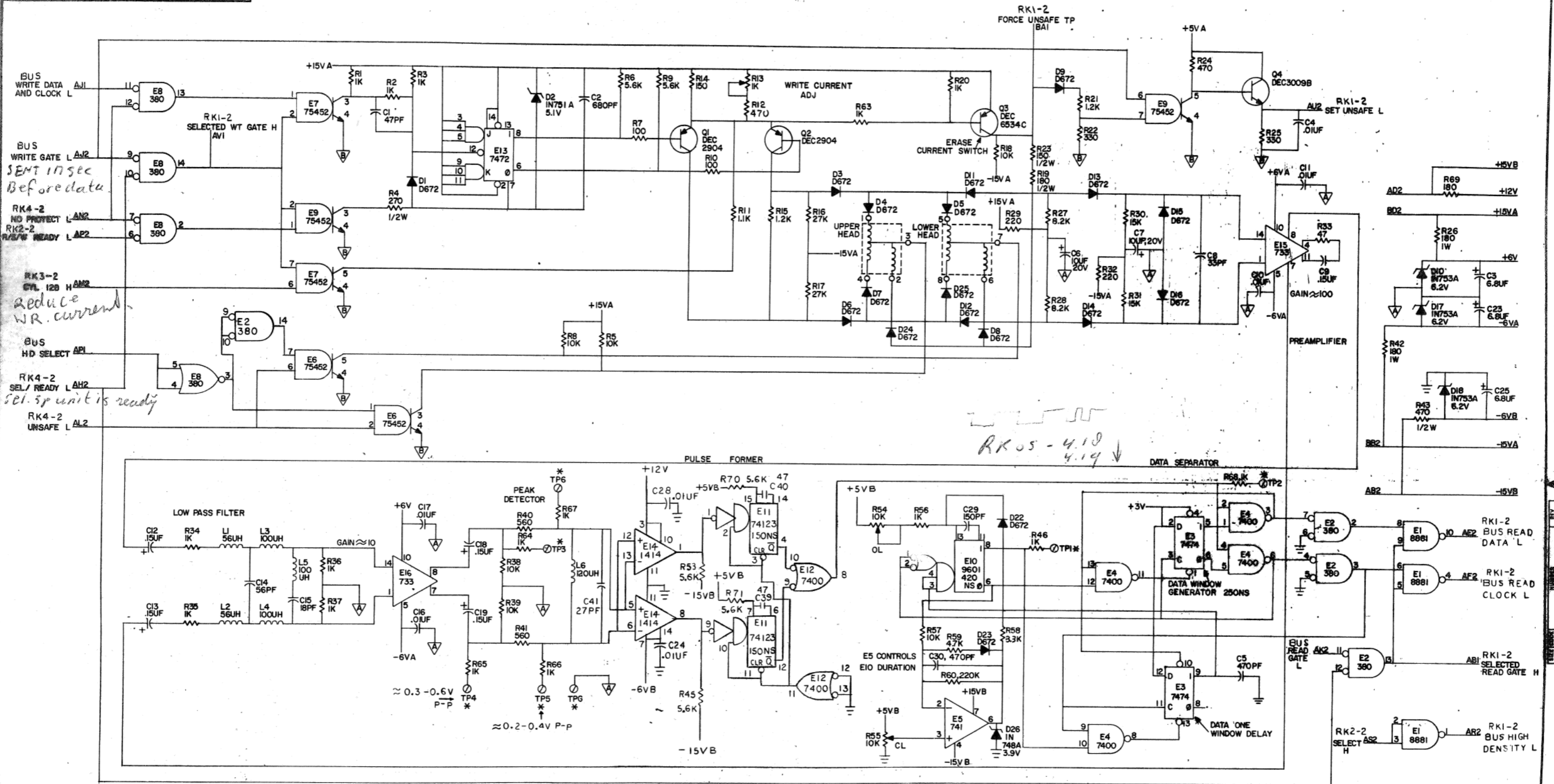
1	D26	DIODE IN748A (3.9V ZENER)	1100122	79
1	R69	RES. 180 1/4W 5%	1301322	78
2	R7,R10	RES. 100 1/4W 5%	1300229	77
1		NOISE SHIELD	5009893	76
2		HANDLE,FLIP CHIP-GREEN	9008337-01	75
7	TP6,TP1 THRU TP6	SWAGE LUG	9007791	74
2		HEX NUT,NYLON,*2-56	9007263	73
2		EYELET *6S4-7	9006732	72
2		INTERNAL LOCK WASHER *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,I6	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,R55	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,R9,R45,R53,R70,71	RES. 5.6K 1/4W 5%	1301874	42
1	R11	RES. 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,R8,R18,R39,R39,57	RES. 10K 1/4W 5%	1300479	36
1	R59	RES. 4.7K 1/4W 5%	1300447	35
1	E11	I.C. DEC 71123	1300438	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. 160 1/4W 5%	1300260	26
1	R12	RES. 150 1/4W 5%	1300250	25
1	R23	RES. 150 1/2W 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)	1105994	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. DOUGLASS		DATE 10-22-71	<p>TITLE DEC PACK READ/ WRITE</p>	
CHK'D. NANCY MORRE		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	
DEC 3009B	2N3009	IN753A	SAME	
DEC 6534C	MPS6534	D672	IN3653	
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
<b>SEMICONDUCTOR CONVERSION CHART</b>				
SCALE	D CS	NUMBER	G180-0-1	REV. L
SHEET	1	OF	2	DIST.

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1-0-090  
REV. 11/71  
SD 0  
DEC 1971



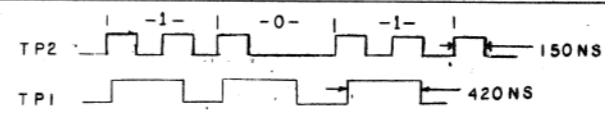
BUS WRITE DATA AND CLOCK L  
 BUS WRITE GATE L  
 RK4-2 NO PROTECT L  
 RK2-2 R/W READY L  
 RK3-2 SWL 128 H  
 BUS HD SELECT APL  
 RK4-2 SEL/READY L  
 RK4-2 UNSAFE L

*SENT 17 sec before data*

*Reduce WR current*

*sel. 3rd unit is ready*

*RK05-4.19*



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

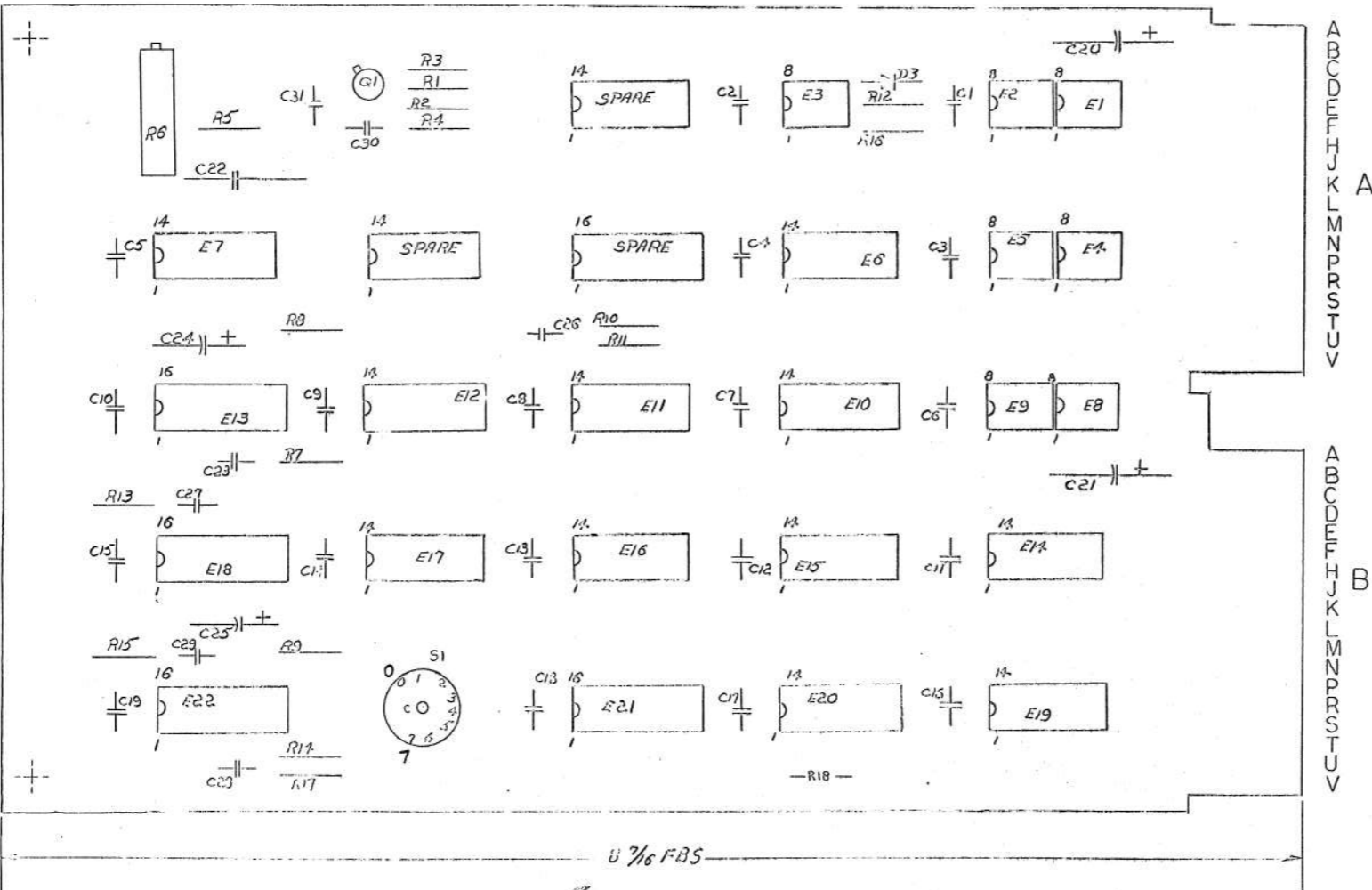
REVISIONS		TRANSISTOR & DIODE CONVERSION CHART				EQUIPMENT CORPORATION		TITLE	
NO.	DATE	DEC	EIA	DEC	EIA	MODEL	REPLACEMENT	MODEL	CODE
1	11/71	74123	74123	74123	74123	74123	74123	74123	74123
2	11/71	7414	7414	7414	7414	7414	7414	7414	7414
3	11/71	7400	7400	7400	7400	7400	7400	7400	7400
4	11/71	7474	7474	7474	7474	7474	7474	7474	7474
5	11/71	7477	7477	7477	7477	7477	7477	7477	7477
6	11/71	7478	7478	7478	7478	7478	7478	7478	7478
7	11/71	7479	7479	7479	7479	7479	7479	7479	7479
8	11/71	7480	7480	7480	7480	7480	7480	7480	7480
9	11/71	7481	7481	7481	7481	7481	7481	7481	7481
10	11/71	7482	7482	7482	7482	7482	7482	7482	7482
11	11/71	7483	7483	7483	7483	7483	7483	7483	7483
12	11/71	7484	7484	7484	7484	7484	7484	7484	7484
13	11/71	7485	7485	7485	7485	7485	7485	7485	7485
14	11/71	7486	7486	7486	7486	7486	7486	7486	7486
15	11/71	7487	7487	7487	7487	7487	7487	7487	7487
16	11/71	7488	7488	7488	7488	7488	7488	7488	7488
17	11/71	7489	7489	7489	7489	7489	7489	7489	7489
18	11/71	7490	7490	7490	7490	7490	7490	7490	7490
19	11/71	7491	7491	7491	7491	7491	7491	7491	7491
20	11/71	7492	7492	7492	7492	7492	7492	7492	7492
21	11/71	7493	7493	7493	7493	7493	7493	7493	7493
22	11/71	7494	7494	7494	7494	7494	7494	7494	7494
23	11/71	7495	7495	7495	7495	7495	7495	7495	7495
24	11/71	7496	7496	7496	7496	7496	7496	7496	7496
25	11/71	7497	7497	7497	7497	7497	7497	7497	7497
26	11/71	7498	7498	7498	7498	7498	7498	7498	7498
27	11/71	7499	7499	7499	7499	7499	7499	7499	7499
28	11/71	7500	7500	7500	7500	7500	7500	7500	7500

SLOT-1

DEC PACK READ/WRITE  
 EQUIPMENT CORPORATION  
 MAINTARD, MASSACHUSETTS  
 PRINTED CIRCUIT REV. L

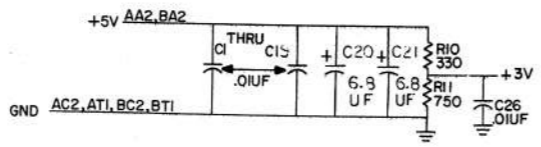
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1-0-0022W SD D 1000 1/15



A B C D E F G H 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 E4, 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.	ITER.
2	C20, 21	CAP. 6.8UF 35V 20%	1000067	40
1	R6	RESISTOR 4.7K 1/4W 5%	1300487	38
1	C22	CAP. 0.01UF 100V 10% MYLAR	1005784	38
2		HANDLE, FLIP CHIP - MAGENTA	9008337-06	37
4		RELAY	9006732	35
1	R20	I.C. DEC 7401	1905590	34
1	E13, 16, 22	I.C. DEC 74123	1910436	33
7	E1-8, E8, E9	I.C. DEC 74122	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	E5, 19	I.C. DEC 380	1909485	28
2	E8, 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	Q1	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%	1308479	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	D1	DIODE AZ5 (2.4)	1101938	12
1	R5, 16, 17	RES. 1K 1/4W 5%	1300365	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 C18, 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 BOM HISTORY	B-MH-M7700-0-6	3
		ASSY/DRILLING HOLE LAYOUT	E-MH-M7700-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-M-M7700-0-4	1
		DESCRIPTION	DEC PART NO.	ITER.

PART NUMBER M7700-0-1

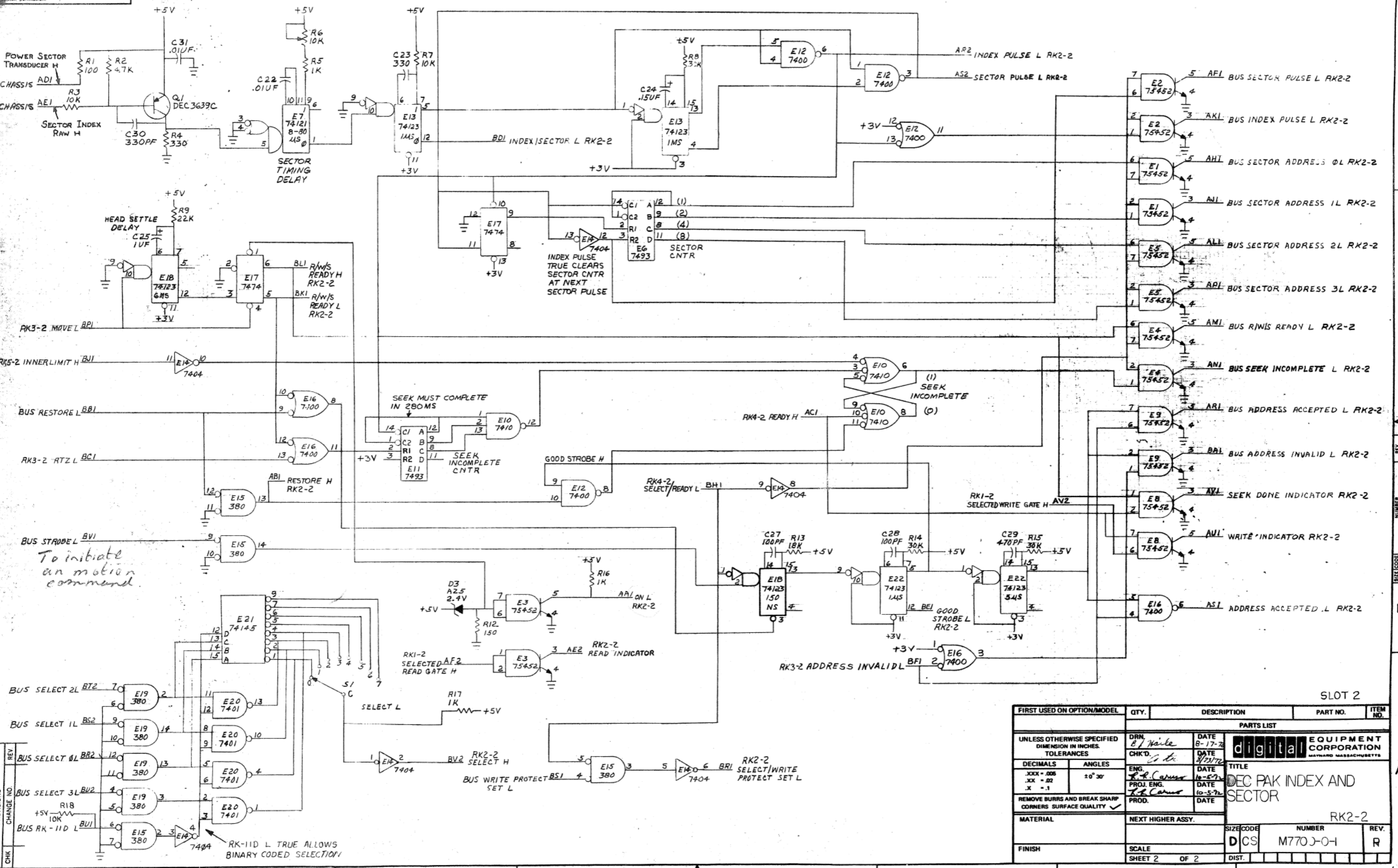
REV	DATE	BY	CHKD
1	11/17/71	W. H. H.	
2	11/17/71	W. H. H.	
3	11/17/71	W. H. H.	
4	11/17/71	W. H. H.	
5	11/17/71	W. H. H.	
6	11/17/71	W. H. H.	
7	11/17/71	W. H. H.	
8	11/17/71	W. H. H.	
9	11/17/71	W. H. H.	
10	11/17/71	W. H. H.	
11	11/17/71	W. H. H.	
12	11/17/71	W. H. H.	
13	11/17/71	W. H. H.	
14	11/17/71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

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
2N4350	2N4350	1N4370	1N4370
2N4351	2N4351	1N4371	1N4371
2N4352	2N4352	1N4372	1N4372
2N4353	2N4353	1N4373	1N4373
2N4354	2N4354	1N4374	1N4374
2N4355	2N4355	1N4375	1N4375
2N4356	2N4356	1N4376	1N4376
2N4357	2N4357	1N4377	1N4377
2N4358	2N4358	1N4378	1N4378
2N4359	2N4359	1N4379	1N4379
2N4360	2N4360	1N4380	1N4380

digital EQUIPMENT CORPORATION  
 TITLE: DEC PAK INDEX AND SECTOR  
 SHEET 1 OF 2

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REVISIONS

REV	CHANGE NO.	DESCRIPTION
1		

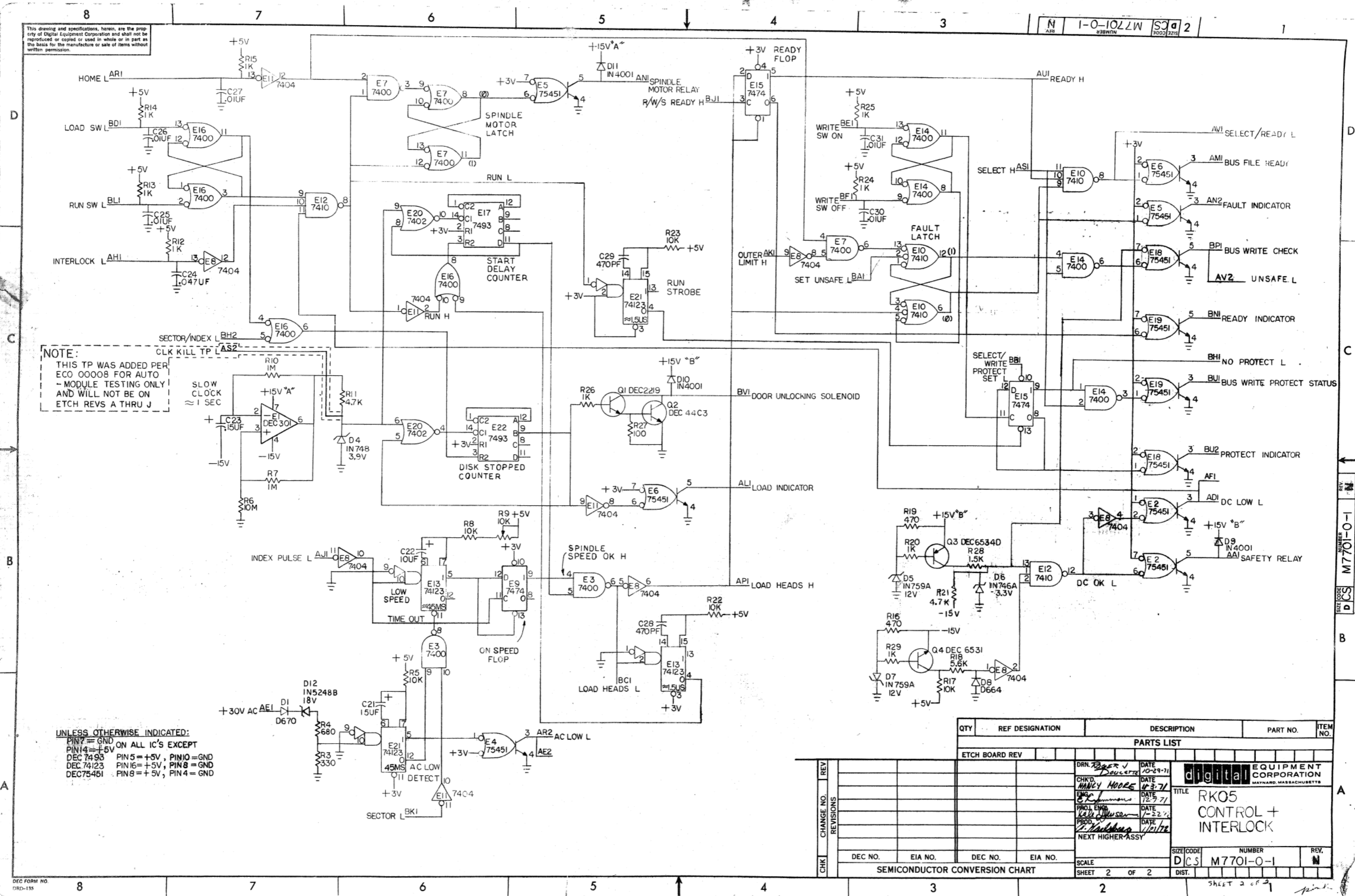
SLOT 2

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	<b>digital</b> EQUIPMENT CORPORATION MAYFORD MASSACHUSETTS	
DECIMALS ANGLES	CHK'D S. de	DATE 3/21/72		
XXX - .008 XX - .02 X - .1	ENG. R. R. Caruso	DATE 10-5-72	TITLE <b>DEC PAK INDEX AND SECTOR</b> RK2-2	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG. R. R. Caruso	DATE		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	SCALE	D CS	M770J-0-1	R
	SHEET 2 OF 2	DIST.		





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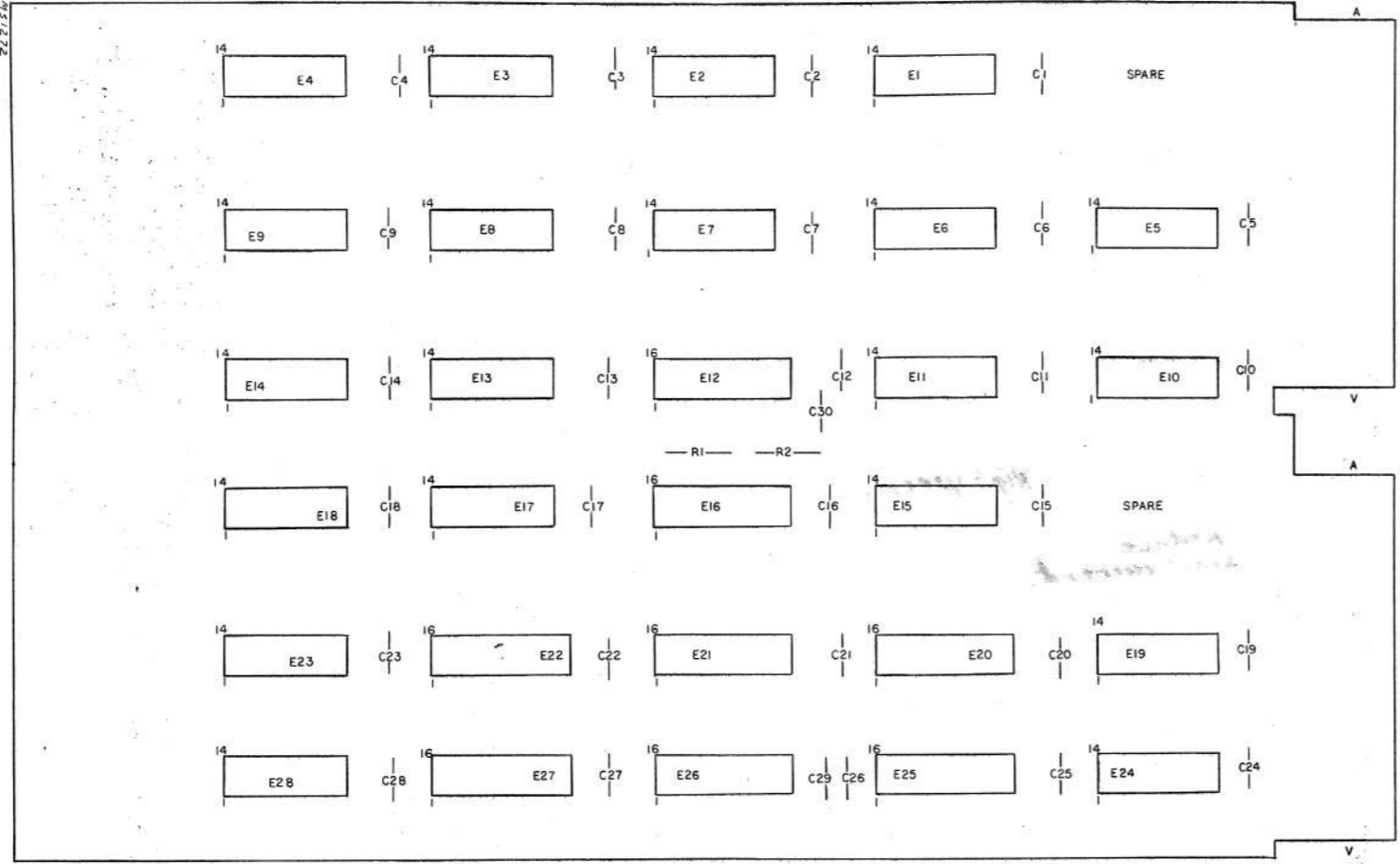
NOTE:  
THIS TP WAS ADDED PER  
ECO 00008 FOR AUTO  
-MODULE TESTING ONLY  
AND WILL NOT BE ON  
ETCH REVS A THRU J

UNLESS OTHERWISE INDICATED:  
PIN 7 = GND  
PIN 14 = +5V 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

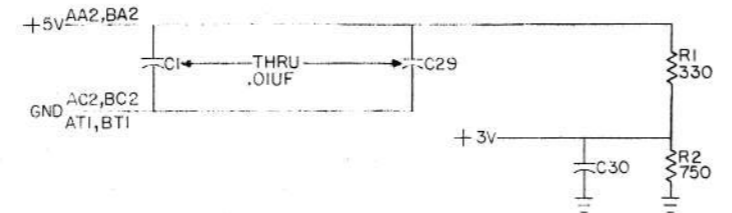
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
REV	CHANGE NO.	REVISIONS	DATE	BY
1		DRN	10-29-71	SOUCRETTA
2		CHKD.	11-3-71	MANLEY MOORE
3		ENG.	12-9-71	...
4		PROJ. ENGR.	1-22-72	...
5		PROD.	...	...
6		...	...	...
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100		...	...	...

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CS 2  
M7702-0-1



UNLESS OTHERWISE INDICATED:  
 PIN 8 = +5V DEC380  
 PIN 1 = GND  
 PIN 5 = +5V DEC 74B3  
 PIN 12 = GND  
 PIN 16 = +5V DEC 74175  
 PIN 8 = GND  
 PIN 16 = +5V DEC 74153  
 PIN 9 = GND  
 PIN 14 = +5V  
 PIN 7 = GND ALL OTHER IC'S



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
4		ETYLET #034-7	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	R1	I.C. DRG 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 LAYOUT	B-AH-M7702-0-5	2
		X-Y COORDINATE HOLE LOCATION	B-CO-M7702-0-4	1

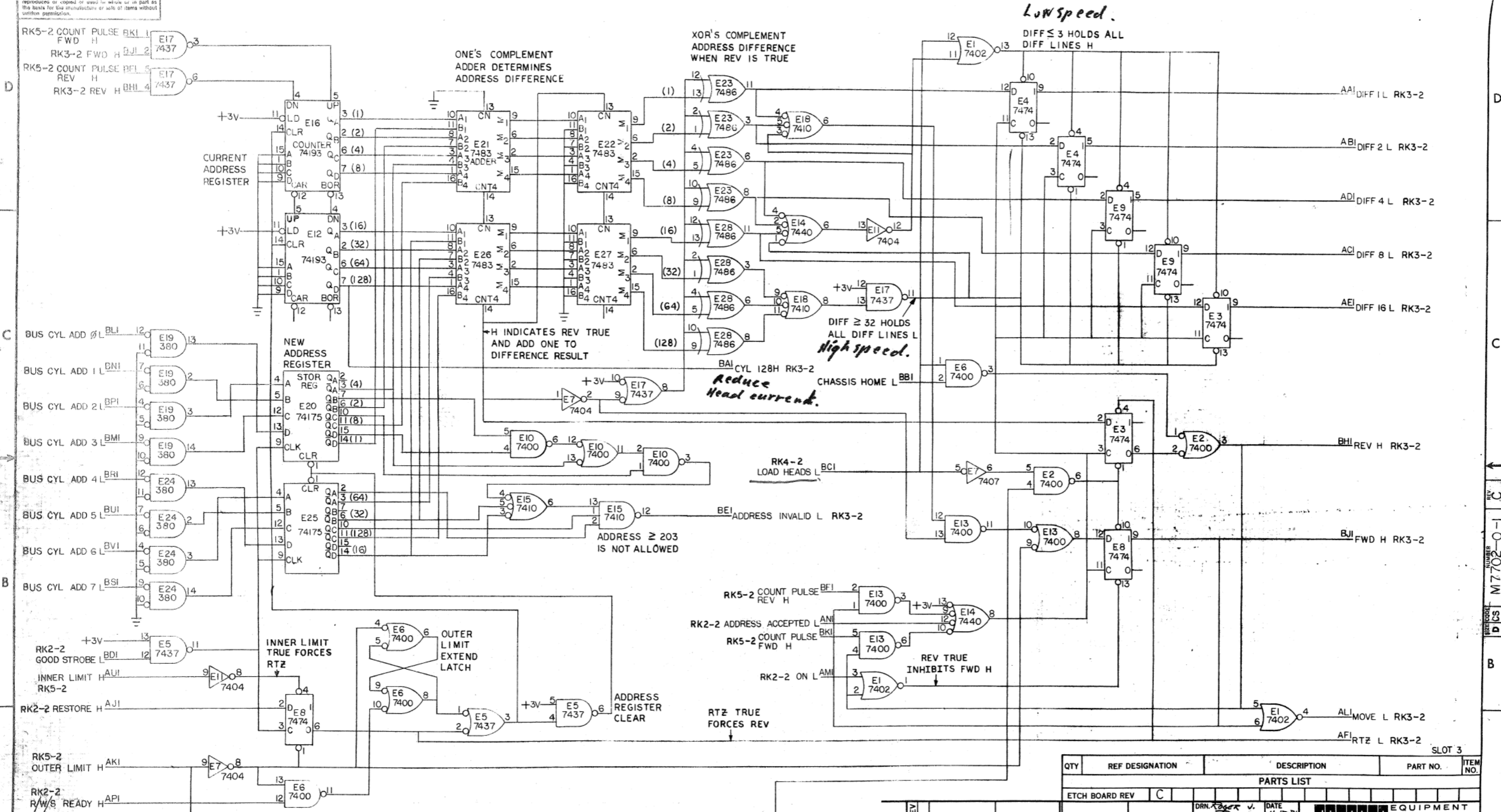
REVISIONS		DATE		TITLE	
DRN.	Roger J. Doucette	11-17-71		DEC PACK CYL	
CHK'D.	Smith	11-15-71		ADDR AND DIFF	
ENG.	C.K. Johnson	12-16-71		RK3-1	
PRG. ENG.	C.K. Johnson	12-16-71			
PROD.					

DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SCALE	SHEET 1 OF 2		

SIZE CODE	NUMBER	REV.
D CS	M7702-0-1	C

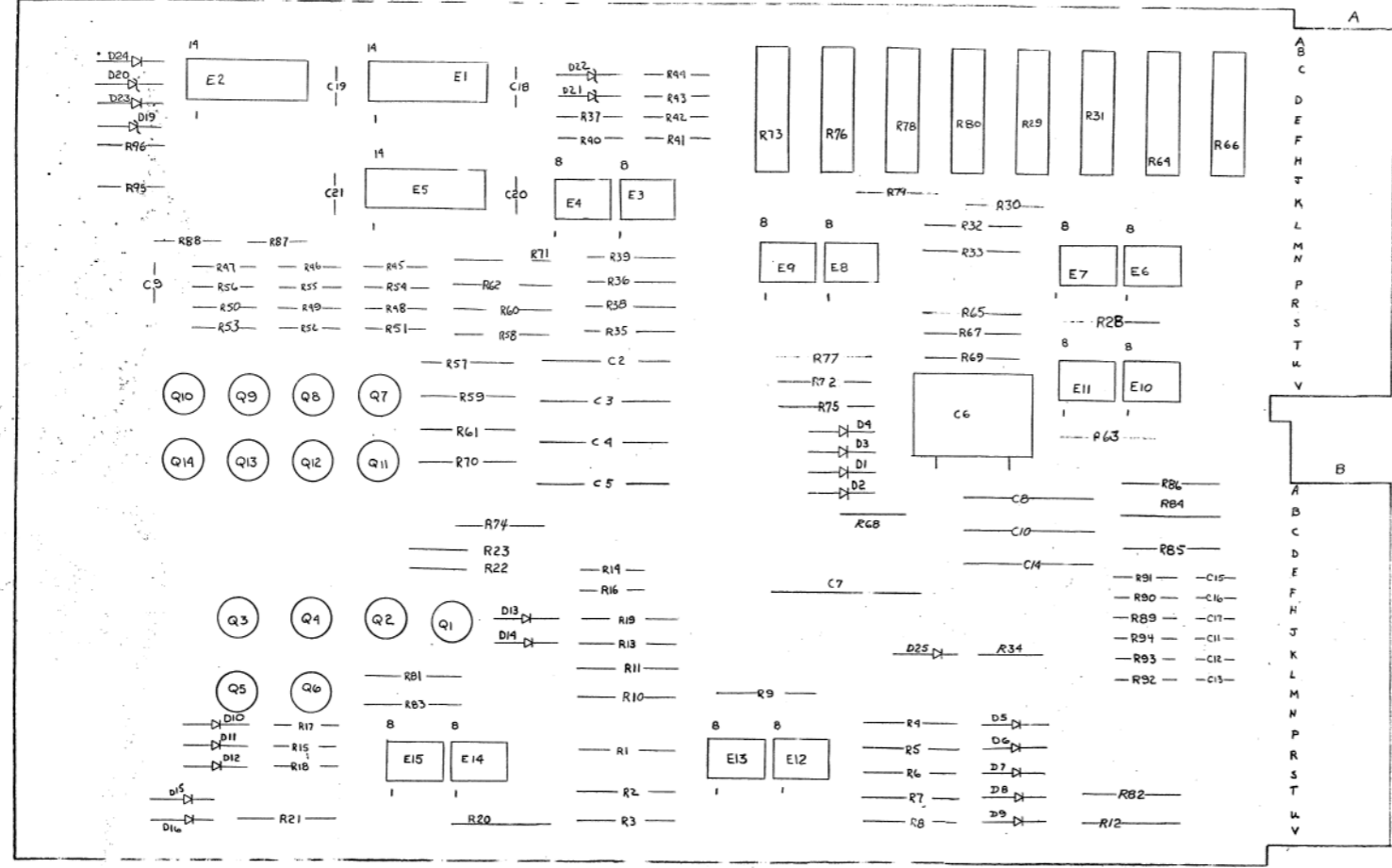
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1-0-202LW 3002216



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV C				
DRN.	DATE	digital EQUIPMENT CORPORATION		
CHK'D	DATE	MAYNARD, MASSACHUSETTS		
ENG.	DATE	TITLE DEC PACK CYL		
PROB'G	DATE	ADDR AND DIFF		
PRD.	DATE	RK3-2		
NEXT HIGHER ASSY		SIZE CODE	NUMBER	REV.
		DCS	M7702-0-1	C
SEMICONDUCTOR CONVERSION CHART				
DEC. NO.	EIA NO.	DEC. NO.	EIA NO.	SCALE
				SHEET 2 OF 2

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

CHK	CHANGE NO.	REV
		6534D
		2N5245
		D662 IN 645
		D664 IN 3606
		IN 7464 SAME
		DEC NO. EIA NO. DEC NO. EIA NO.

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, 54	RES. 10K 1/8W 5%	1300475	53
A/R		GRIPLET	1210244-0	52
2		HANDLE, FLIP CHIP - GREEN	9008337-01	51
4		EYELET #084-7	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 1/8W 10%	1309444	42
1	R20	RES. 200K 1/8W 1% MF	1305336	41
12	R11, R12, R13, R14, R15, R16, R17, R18, R19	RES. 19.6K 1/8W 1% MF	1309419	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	1309410	37
5	R29, 64, 73, 76, 78	RES. 10K 3/4W 10% 76FR	1309413-10	36
3	R31, 66, 80	POT. 2K 3/4W 10% 76FR	1309413-08	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, R30, 65, 79	RES. 75K 1/8W 5%	1304841	31
2	R13, 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 1/8W 5%	1302466	23
5	R58, 60, R62, R71, R82	RES. 511 1/8W 1% MF	1302411	22
1	R88	RES. 750 1/8W 5%	1301101	21
7	R15, 17, 46, 49, 52, 55, 1	RES. 15K 1/8W 5%	1300496	20
5	R18, R47, R50, 53, 56	RES. 3.9K 1/8W 5%	1300444	19
9	R14, 16, 43, 44, 45, 48, 51, 54, 68	RES. 1.5K 1/8W 5%	1300391	18
3	R 37, 40, 87	RES. 330 1/8W 5%	1300295	17
6	R89-94	RES. 22 1/8W 10%	1300188	16
2	R84, R85	RES. 10 1/8W 5%	1300168	15
2	D15, D16	DIODE M756A 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% TANT	1001612	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	1010446	6
1		ETCHED CIRCUIT BOARD	5009388	4
		MODULE ECO HISTORY	B-MH-0938-0-6	3
		ASSY/DRILLING HOLE LAYOUT	E-AH-0938-0-5	2
		X-Y COORDINATE HOLE LOCATION	K-CO-0938-0-4	1

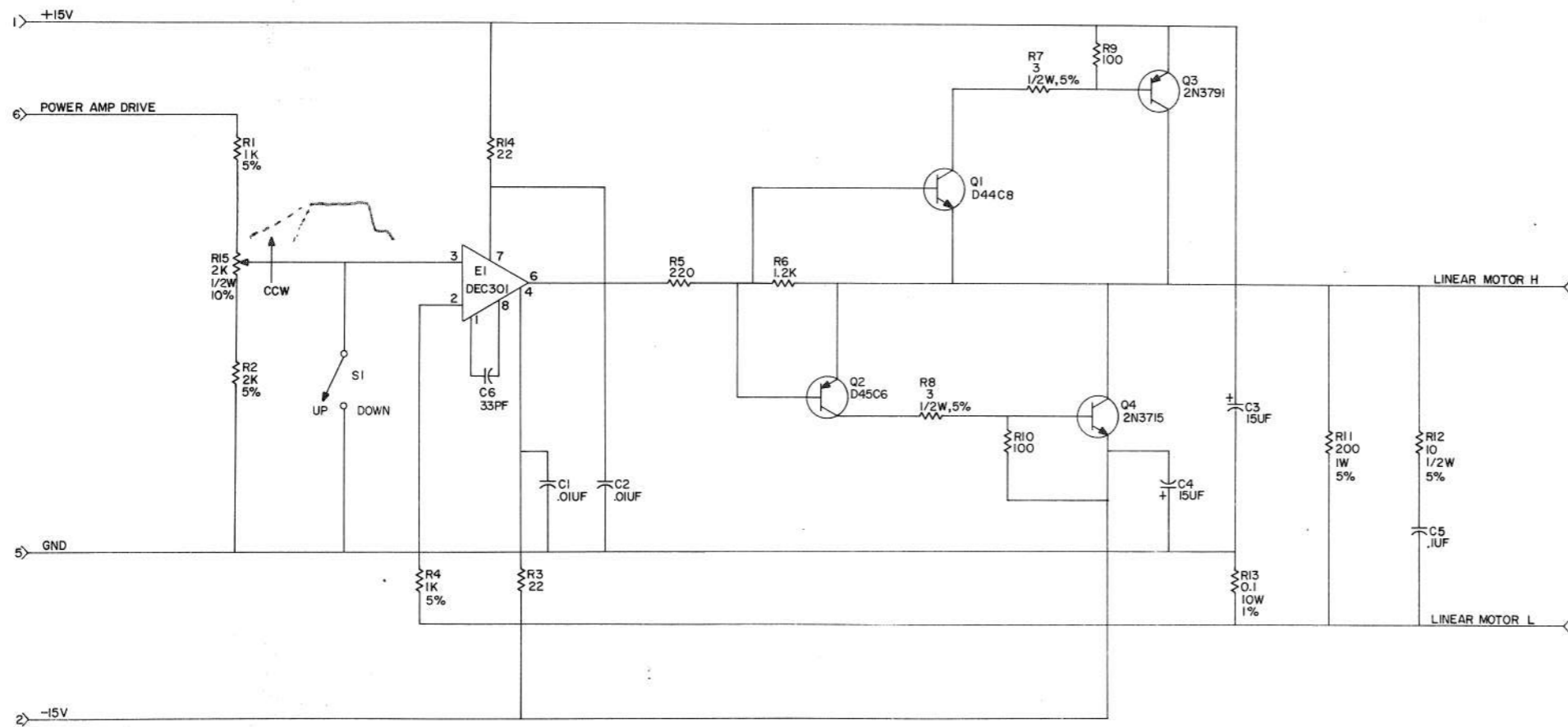
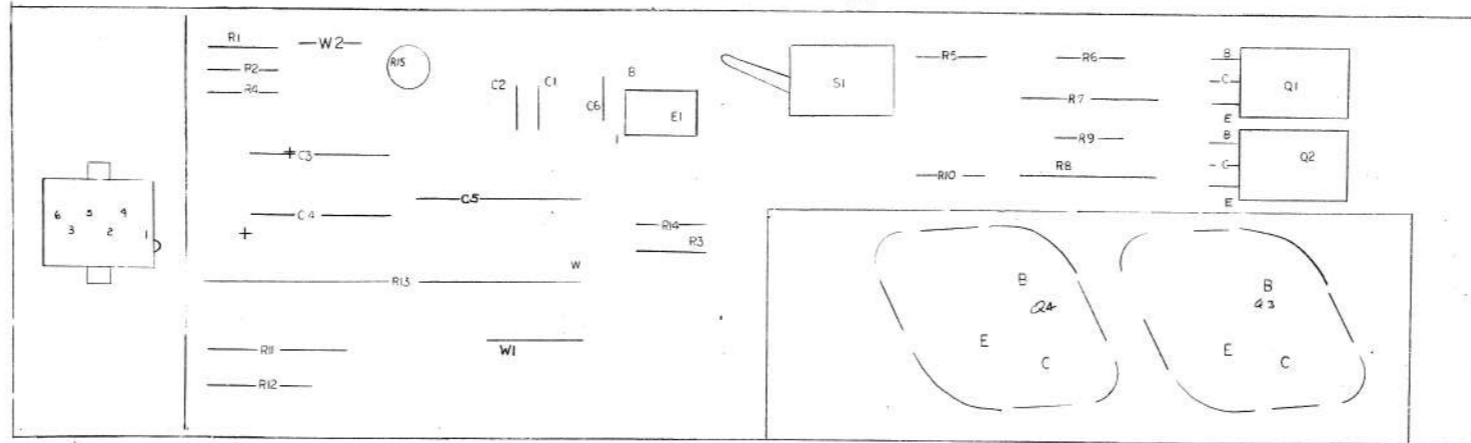
PARTS LIST		TITLE	
ETCH BOARD REV	K	DRN. ROYER J.	DATE 12-8-71
		CHKD. [Signature]	DATE 12-9-71
		ENG. Bob Jensen	DATE 30 Dec 71
		PROJ. ENG. Bob Jensen	DATE 30 Dec 71
		PROD. [Signature]	DATE 31 Dec 71
		NEXT HIGHER ASSY	
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART			
SCALE	SHEET 1 OF 2	SIZE CODE	D1CS
		NUMBER	6938-0-1
		REV.	L

**digital** EQUIPMENT CORPORATION  
 WAYNARD MASSACHUSETTS  
 TITLE DEC PACK HEAD POSITION SERVO PREAMP  
 RK5-1



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1-0-1000H  
21800N  
53 Q  
1000 1/15



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

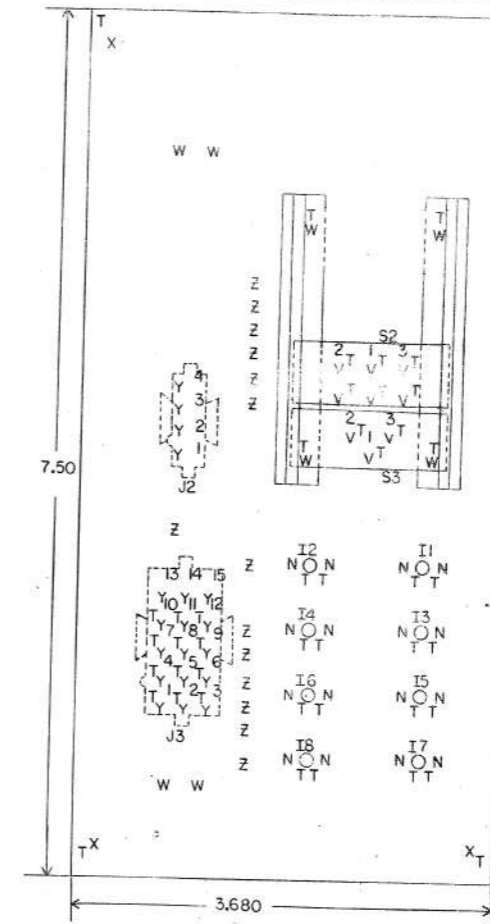
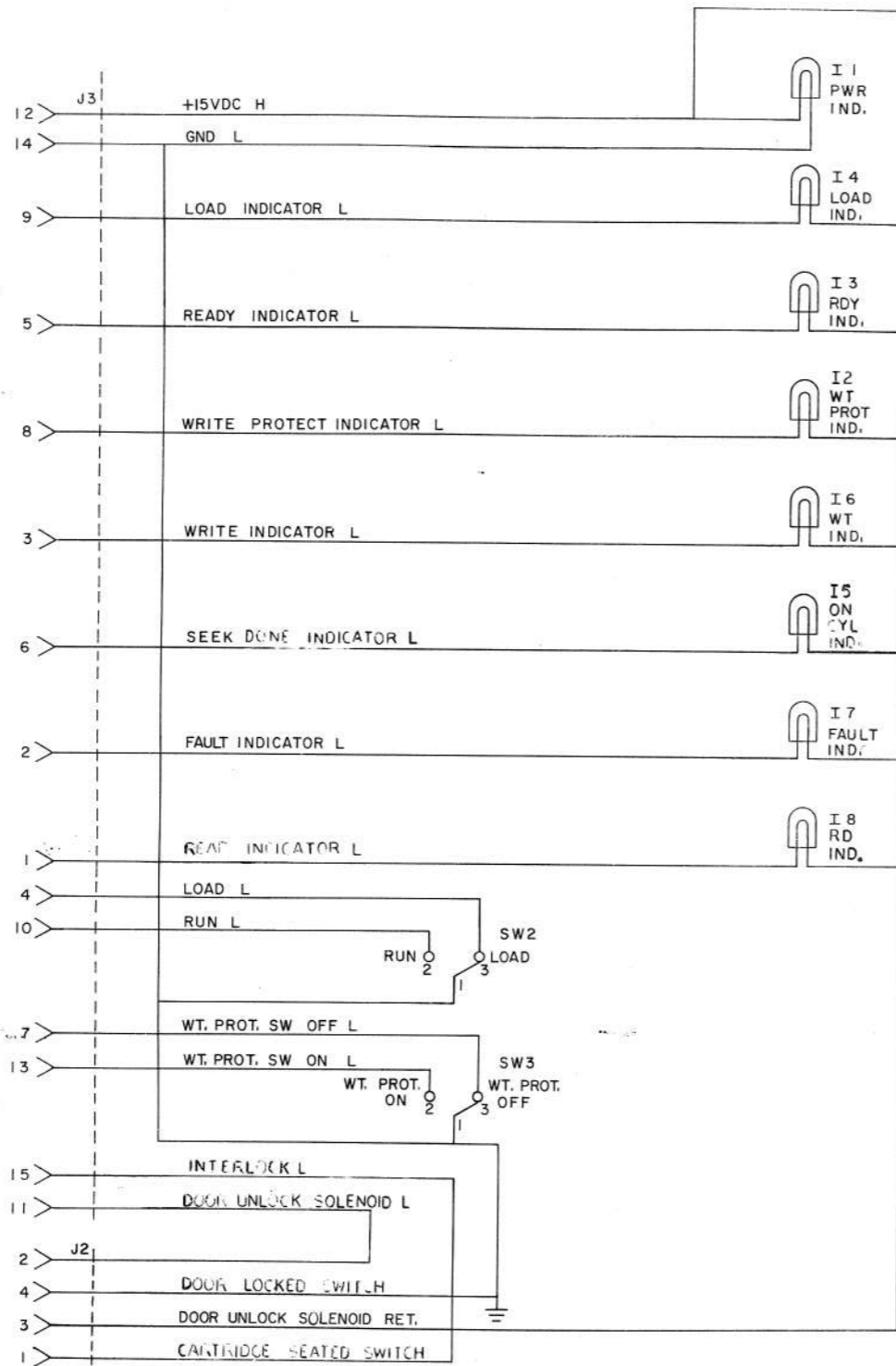
REV	DESCRIPTION	DATE
1	INITIAL DESIGN	11/15/71
2	REVISION	11/15/71
3	REVISION	11/15/71
4	REVISION	11/15/71
5	REVISION	11/15/71
6	REVISION	11/15/71
7	REVISION	11/15/71
8	REVISION	11/15/71
9	REVISION	11/15/71
10	REVISION	11/15/71

DATE	BY	TRANSISTOR & DIODE CONVERSION CHART
11/15/71	B. J. Jensen	DEC EIA
11/15/71	B. J. Jensen	DEC EIA
11/15/71	B. J. Jensen	DEC EIA
11/15/71	B. J. Jensen	DEC EIA
11/15/71	B. J. Jensen	DEC EIA
11/15/71	B. J. Jensen	DEC EIA

		TITLE: DECPAK HEAD POS. SERVO PWR. AMP.	
SITE CODE	NUMBER	REV	
D CS	H604-0-1	J	
PRINTED CIRCUIT REV			



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REV	CHG NO	REV	CHK'D	DATE
1	D	TER-EN		
2	J	DOOR C		
3	D	JENSEN		
4	D	JENSEN		
5	D	JENSEN		
6	D	JENSEN		
7	D	JENSEN		
8	D	JENSEN		
9	D	JENSEN		
10	D	JENSEN		
11	D	JENSEN		
12	D	JENSEN		
13	D	JENSEN		
14	D	JENSEN		
15	D	JENSEN		

DRN	S. COOPER	DATE	11-20-71
CHK'D		DATE	
ENG	W. JENSEN	DATE	19 Dec 71
PROD		DATE	

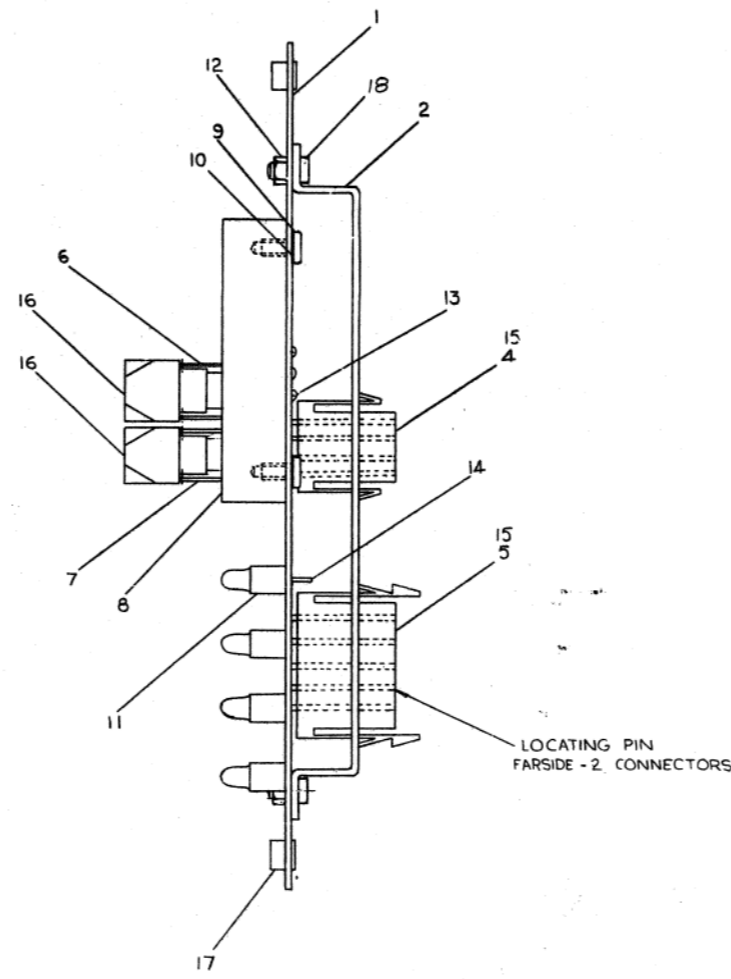
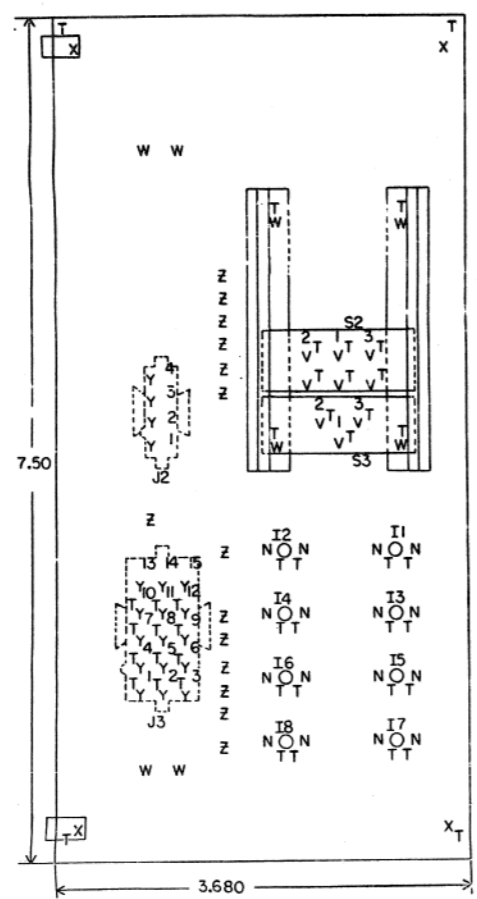
TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

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



0 1 2 3 4 5

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E  
D  
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B



H  
F  
E  
D  
C  
B

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

REF	REF DESIGNATION	DESCRIPTION	QTY	PART NO.
		ASSY/DRILLING HOLE LAYOUT		DAH-5409698-01 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		9007812 14
16		EYELET FEED THROUGH		9006571 13
4		NUT KEPS # 4- 40		9006557 12
8	11,12,13,14,15,16,17,18	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	S3	SWITCH, ROCKER		1205375 7
1	S2	SWITCH, ROCKER		1205941 6
1	J3	HOUSING, SOCKET MATE-N-LOCK 4PW		1209350-15 5
1	J2	HOUSING, SOCKET MATE-N-LOCK 4PW		1209350-04 4
				3
1		CONNECTOR BRACKET		C-MD-5509829-0-0 2
		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

PARTS LIST

EQUIPMENT CORPORATION

CONTROL PANEL (RK05)

EIA 5409698-0-0

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

SEMICONDUCTOR COMPANION CHART

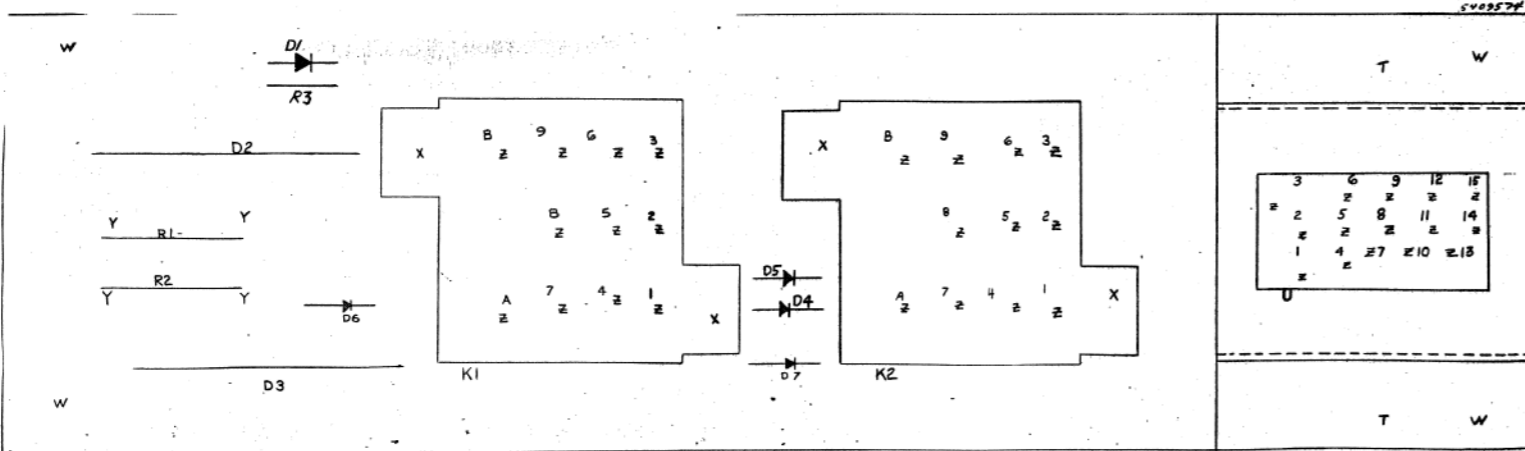
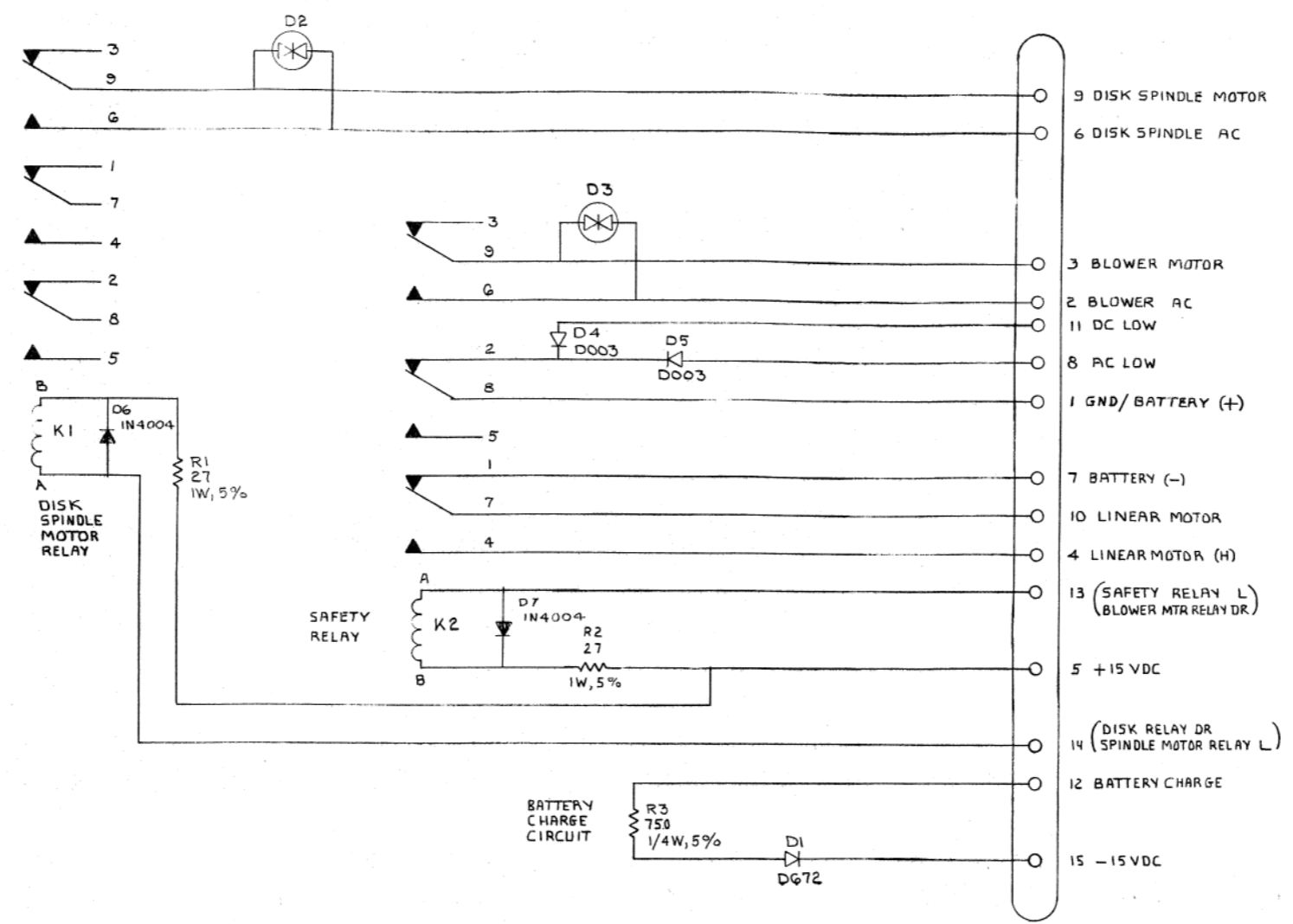
1 OF 1

8 7 6 5 4 3 2 1

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REV. F 5409574-0-1

- 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.



REVISIONS  
 N. FIELD 2/13/75  
 5409574-00002: F  
 2-20-73  
 D. JENSEN 2/15/73  
 5409574-00001: E

REV	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
D003		IN994			
D672		IN3653			

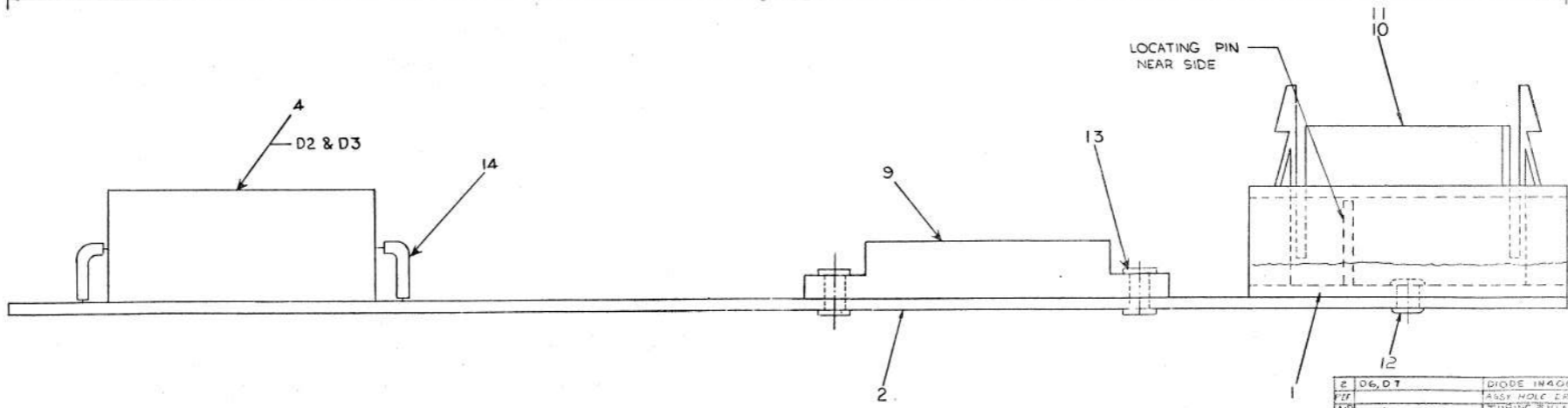
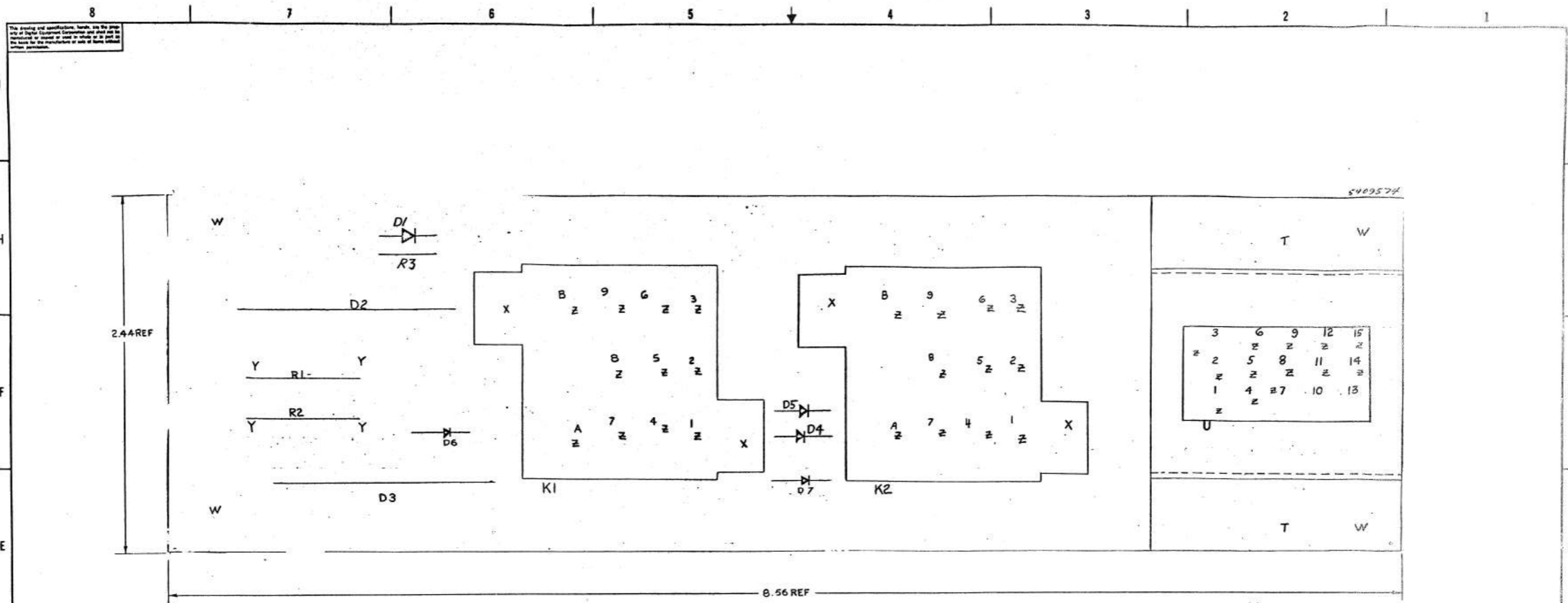
DRN.	CHK'D.	ENG.	PROJ. ENG.	PROD.	DATE
ROGER J. FICHERTE					12-9-71
					12-15-71
					10 Jan 72
					10 Jan 72

digital EQUIPMENT CORPORATION  
 MAYNARD, MASSACHUSETTS

TITLE: DEC PACK MOTOR RELAYS

SCALE: DIST. 1 OF 1

SIZE CODE: DCS 5409574-0-1 REV. F



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, D7	DIODE 1N4004	1109795	16
1		FIBER OPTIC FILLING LIGHT	33W 8025 140275	
1		TUBING 1/8" DIA X 1/8" WALL	310 1278-11	14
2		EYELET GS 4-8	006746	15
2		EYELET 1/21 00X 215 L6	8006722	10
15		PINS FOR MATE-N-LOCK	2034 56-01	11
1		15 PIN MATE-N-LOCK	2034 56-01	11
2		RELAY SOCKET	100 784	3
2	K1, K2	RELAY P 27 1/2 W 5% 1101516	1101516	7
2	R1, R2	RESISTOR 27 1/2 W 5% 1101516	1101516	7
1	R3	RESISTOR 250 1/4 W 5% 137401	137401	5
1	D1	DIODE 1N4748	1105292	2
2	D2, D3	1/2" REFL. 1/4" RSZ0 1/4" R4	1100106	4
2	D4, D5	DIODE GER DOD3	1100100	2
1		ETCHED CIRCUIT BOARD	8009574	1
		MIDDLE ECO HISTORY	8009574	1
		REAR MOTOR RELAY	8009574	1
		X-Y COORD HOLE LOCAT	8009574	1
		CIRCUIT SCHEMATIC	8009574	1

**DECPACK MOTOR RELAYS**

SEMICONDUCTOR CONVERSION CHART

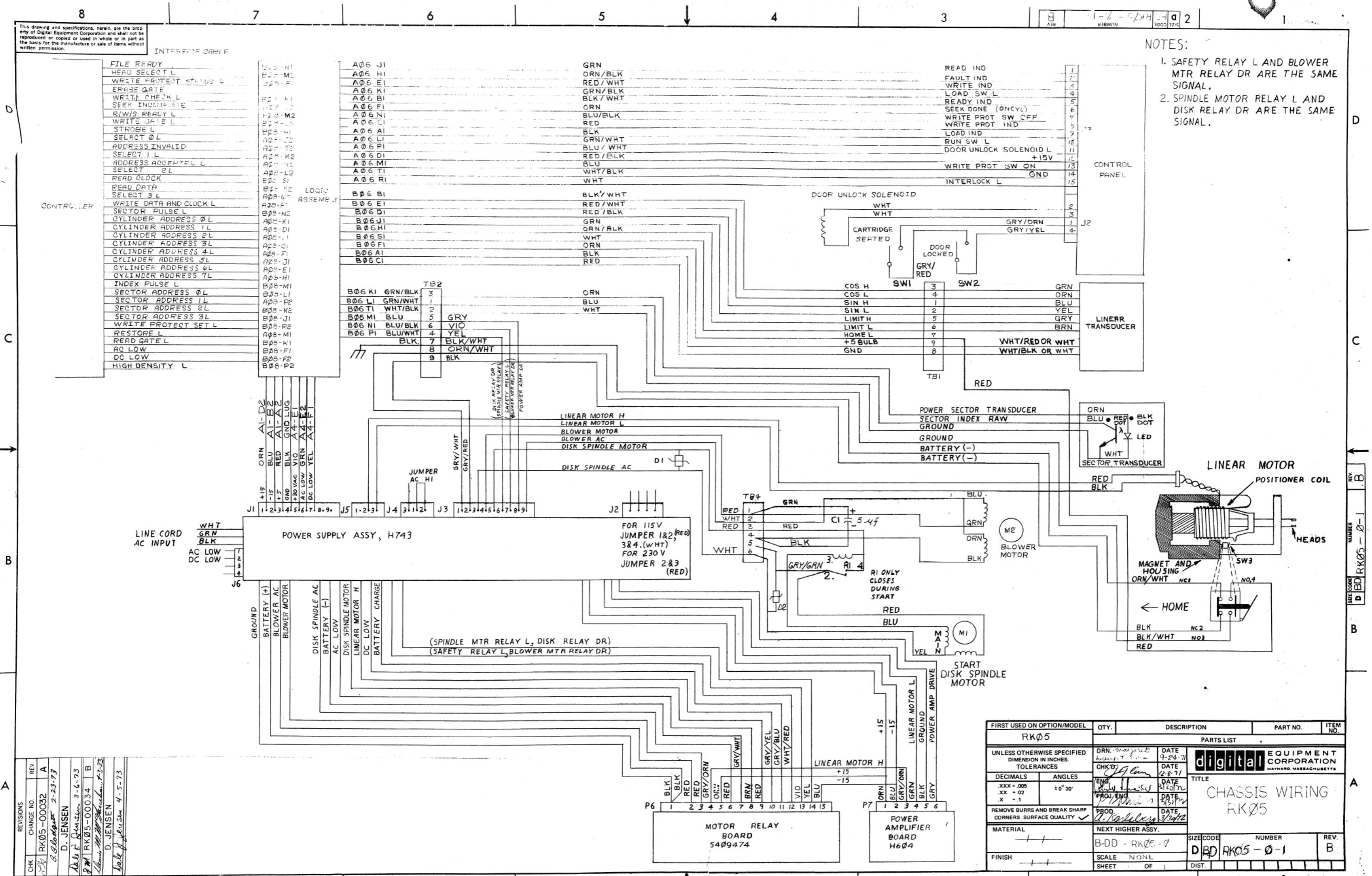
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INTERFERENCE

1-1-6/44 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.



REVISIONS

CHK	CHANGE NO.	REV
	RK05-00032	A
	RK05-00034	B
	RK05-00034	B

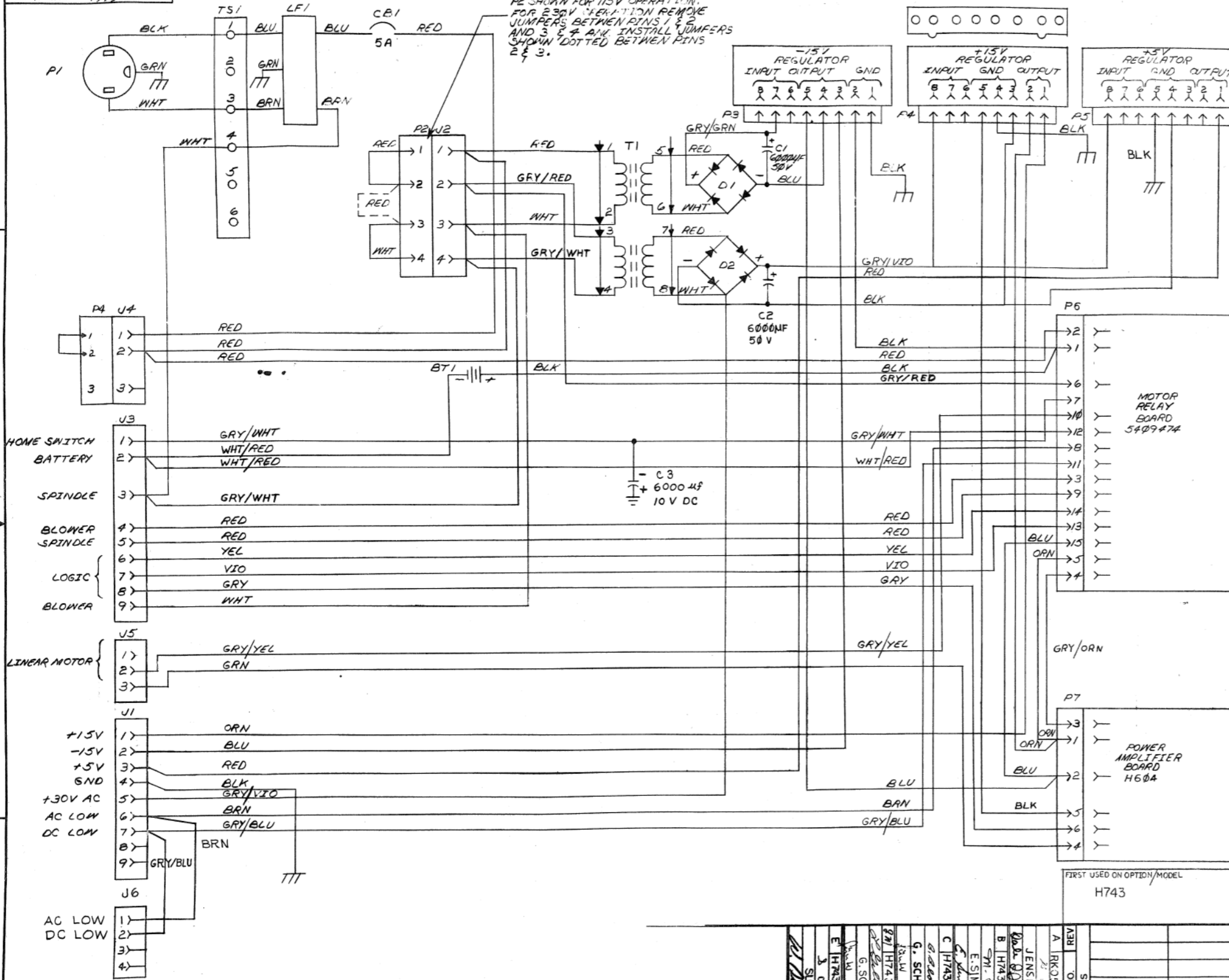
D. JENSEN  
3-6-73  
D. JENSEN  
4-5-73

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN. Margaret	DATE 9-24-71	<p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p>
DECIMALS	ANGLES	CHK'D J. Jensen	DATE 12-8-71	
XXX - .005	± 0° 30'	PROJ. ENG. J. Jensen	DATE 7-15-71	
XX - .02		PROD. D. Jensen	DATE 3-24-72	
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		TITLE CHASSIS WIRING RK05		
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE
FINISH		B-DD - RK05-0		NUMBER
		SCALE NONE		REV. B
		SHEET OF		DIST.

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION							
ACCESSORY LIST		SECTION		PA	PB	PM	KIT CHECK		INSTALLATION CHECK			
MADE BY	CHECKED	DATE	DATE	PA	PB	PM	KIT CHECK		INSTALLATION CHECK			
G. Schneider	<i>[Signature]</i>	8/17/72	8/17/72	PAPER TAPE ASCII	PAPER TAPE BINARY	PAPER TAPE READ-IN-MODE						
ENG	PROD	DATE	DATE	ISSUED SECT.								
<i>[Signature]</i>	<i>[Signature]</i>	8/17/72	8/17/72									
ITEM NO.	DWG. NO. / PART NO.	DESCRIPTION			ALL RK05's for all RK05's	ALL RK05's for all RK8E's						
1	RK05-0	Customer Print Set (B-DD-RK05-0 Sheet one only)			1	1						
2	<del>DEC-RK05-TPB-1</del>	<del>ILLUSTRATED PARTS BREAK DOWN FOR RK05</del>			1	1						
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-7009276-0-0	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			ASSY. NO.	SIZE CODE	NUMBER			REV.	ECO NO			
DECpack Assembly				A   AL	RK05-0-17			E	RK05-00052			
SHEET 1 OF 1			DIST.									



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

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	REV
1	PI	POWER CORD 230V	1700016-09	22
1	C3	CAP 6000µF 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, P6	CONN, MATE-N-LOCK, 8PIN	1209340-01	17
1	TS1	TERMINAL STRIP (6POS)	9006906	16
1	T1	TRANSFORMER	1610511	15
1	P1	CONN, MATE-N-LOCK, 6PIN	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	P1	+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, 5PIN	1209350-05	5
1	LF1	LINE FILTER	1010585	4
2	C1, C2	CAP 6000µF, 50V	1010510	3
2	D1, D2	RECTIFIER (M DA990-3)	1110051	2
1	CB1	CIRCUIT BREAKER 5A	1209293	1

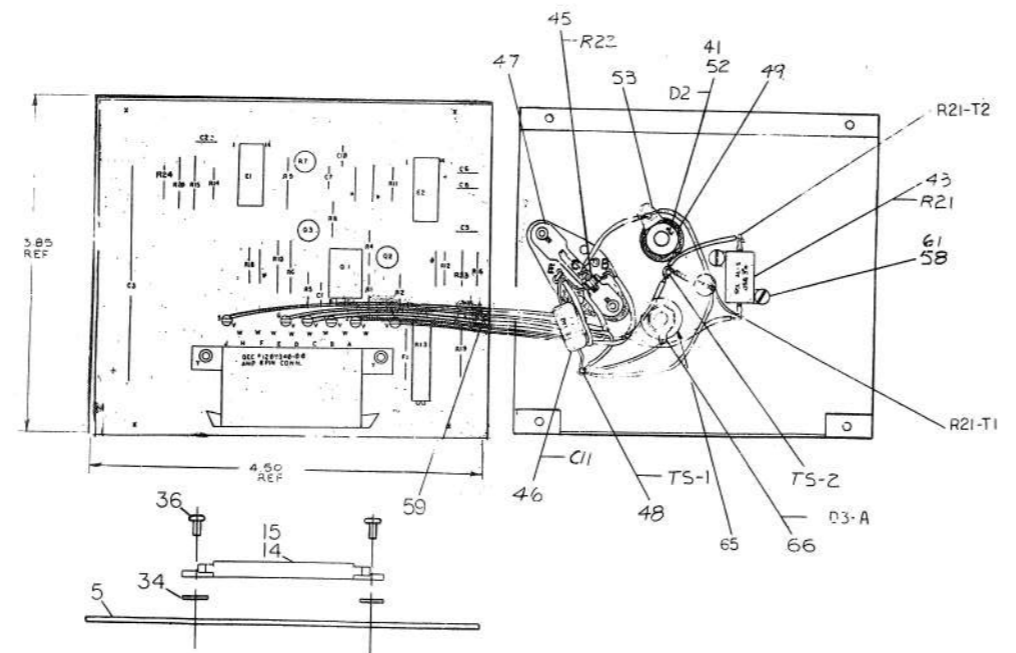
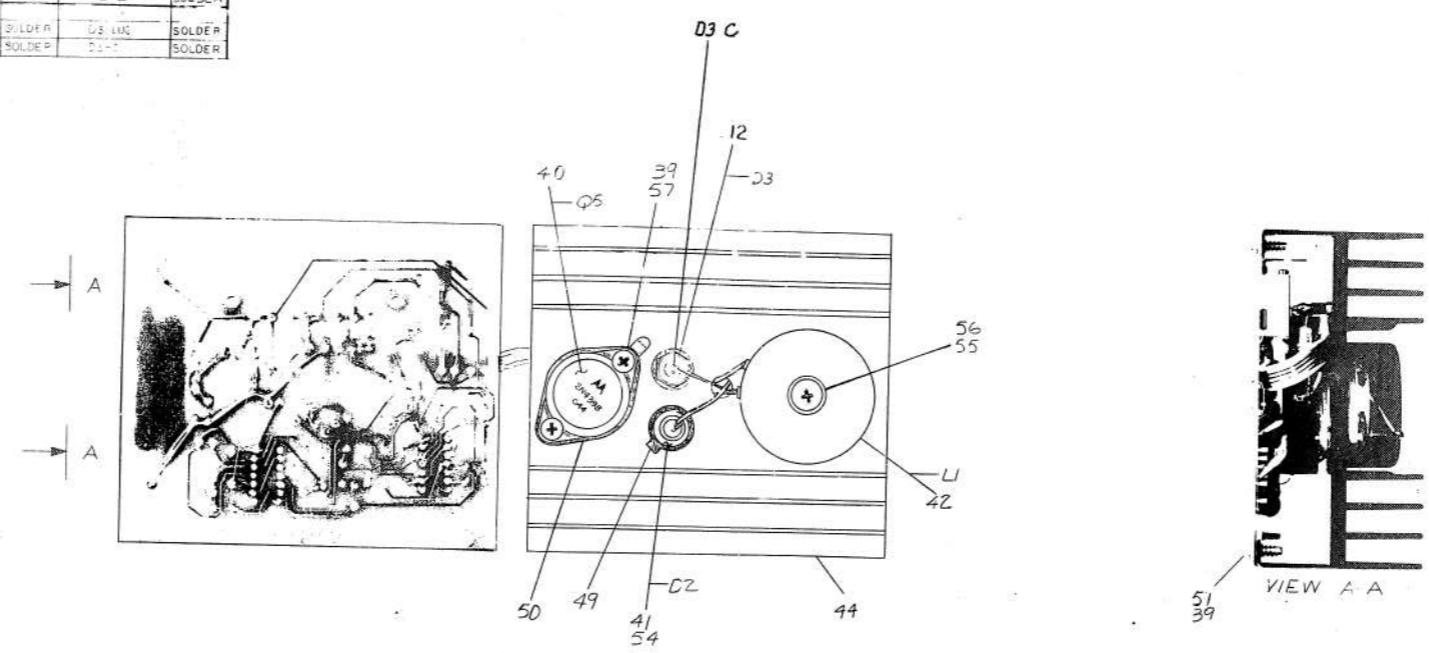
ETCH BOARD REV		PARTS LIST	
DRN	DATE	DRN	DATE
CHKD	DATE	CHKD	DATE
ENG	DATE	ENG	DATE
PROB	DATE	PROB	DATE
PROD	DATE	PROD	DATE
NEXT HIGHER ASSY		NEXT HIGHER ASSY	
B-DD-H743-0		B-DD-H743-0	
SCALE	OF 1	SCALE	OF 1
SEMICONDUCTOR CONVERSION CHART		SEMICONDUCTOR CONVERSION CHART	

REV	CHANGE NO.	DESCRIPTION
1	1	INITIAL DESIGN
2	2	REVISION
3	3	REVISION
4	4	REVISION
5	5	REVISION
6	6	REVISION
7	7	REVISION
8	8	REVISION
9	9	REVISION
10	10	REVISION
11	11	REVISION
12	12	REVISION
13	13	REVISION
14	14	REVISION
15	15	REVISION
16	16	REVISION
17	17	REVISION
18	18	REVISION
19	19	REVISION
20	20	REVISION
21	21	REVISION
22	22	REVISION

ITEM NO	DESCR	QTY	FROM	TO	CONNECTION	WITH
13	WHT	1	TS-1	D3-E	SOLDER	
54	GRN	1	TS-1	D3-B	SOLDER	
54	W/O	1	TS-1	D3-C	SOLDER	
54	GRN	1	TS-1	D3-F	SOLDER	
54	YEL	1	TS-1	D3-G	SOLDER	
54	RED	1	TS-1	D3-H	SOLDER	
62	WHT/GRN	1	TS-1	D3	SOLDER	
55	BLK	1	LI	D2-LUG		
55	BLK	1	LI	TS-2	SOLDER	
59	GRN	1	TS-1	D3-LUG	SOLDER	
59	GRN	1	TS-1	D3-LUG	SOLDER	
59	YEL	1	R21-T1	D3-T	SOLDER	

ITEM NO	DESCRIPTION	QTY	FROM	TO	POL
13	RES 20 5W 1/4W	1	D3-E	D3-B	-
14	CAP 100 100V	1	D3-E	TS-1	-

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



QTY	REF DESIGNATION	DESCRIPTION	PART NO	REV
1		SOLDER LUG	9006784	86
1		1 X FLAT WASHER	9006614	85
1		WIRE 22 AWG TRACER WHT/GRN	9107400 95	82
1		WASHER INT TOOTH LOCK # 2	9006631	81
1		BUSS WIRE 22 AWG	9107500-91	80
1		26 CONNECTOR CABLE	9107510	79
2		SCR BINDING HD 2.5X3.16 SS1	9006600 4	58
1		SCR PHIL PAN HD 6.32X1.72 SST	9006624 1	57
1		SCR PHIL TRUSS HD 10.32X1.55T	9006677 3	56
1		WASHER INT TOOTH LOCK #10	9006625	55
1		BUSHING	9006441	54
1		SOLDER LUG	9006150	53
1		NUT HEX 10-32	9006564	52
1		SCR PHIL PAN HDH 32X3.8 S.T	9006407	51
1		THERMAL INSULATOR	9006419	50
2		THERMAL INSULATOR	9006424	49
1		151 TS2	9006080	48
1		INSULATED TERM STANDOFF	1210130	47
1		CAP 1 OF 100-10	1005507	46
1		RES 100 5 1/4 W	1300229	45
1		R22, R23	0-1A-530043-0-0	44
1		HEAT SINK	1310001	43
1		RES 0.5 1/4 W 5	1005503	42
1		120 OHM CHOK	1110491	41
1		IN 3888 DIODE	1505970	40
1		2N 4338 TRANSISTOR	9006633	39
1		WASHER INT TOOTH #6	1301552	38
1		RES 27 1/4W 5	1300391	37
1		RES 1.5K 1/4W 5	9006745	36
2		EYELETS WA 1733 STIMPSON	9006735	35
1		SPLIT LUGS	9006707	34
2		WASHER IN 1/8" O/H	1910415	33
1		IC 723C 0.1 P. REGULATOR	1510414	32
1		TRANSISTOR 2N4340	1503409-00	30
2		D2, D3	1300880	29
1		RES 2.7M 1/4W 5	1300841	28
1		RES 3.6K 1/4W 1	1300842	27
1		RES 1K 1/2W 20	1300843	26
1		RES 1K 10 70PR	1300844	25
1		RES 2.74K 1/8W 1 WF	1300845	24
1		RES 1.8K 1/8W 1 WF	1300846	23
1		RES 4.7K 1/4W 5	1300847	22
1		RES 4.7K 1/2W 5	1300848	21
1		RES 270 1/4W 5	1300849	20
1		RES 4.7K 1/4W 5	1300850	19
1		RES 1K 1/4W 5	1300851	18
1		RES 330 1/4W 5	1300852	17
1		RES 1K 1/4W 5	1300853	16
1		RES 1K 1/4W 5	1300854	15
1		RES 1K 1/4W 5	1300855	14
1		RES 1K 1/4W 5	1300856	13
1		RES 1K 1/4W 5	1300857	12
1		RES 1K 1/4W 5	1300858	11
1		RES 1K 1/4W 5	1300859	10
1		RES 1K 1/4W 5	1300860	9
1		RES 1K 1/4W 5	1300861	8
1		RES 1K 1/4W 5	1300862	7
1		RES 1K 1/4W 5	1300863	6
1		RES 1K 1/4W 5	1300864	5
1		RES 1K 1/4W 5	1300865	4
1		RES 1K 1/4W 5	1300866	3
1		RES 1K 1/4W 5	1300867	2
1		RES 1K 1/4W 5	1300868	1

REVISIONS	DATE	BY	CHK	APP	DESCRIPTION
1	11/15/75	J. P. ...			...
2	11/17/75	J. P. ...			...
3	11/17/75	J. P. ...			...
4	11/17/75	J. P. ...			...
5	11/17/75	J. P. ...			...
6	11/17/75	J. P. ...			...
7	11/17/75	J. P. ...			...
8	11/17/75	J. P. ...			...

REV	DATE	BY	CHK	APP	DESCRIPTION
1	11/15/75	J. P. ...			...
2	11/17/75	J. P. ...			...
3	11/17/75	J. P. ...			...
4	11/17/75	J. P. ...			...
5	11/17/75	J. P. ...			...
6	11/17/75	J. P. ...			...
7	11/17/75	J. P. ...			...
8	11/17/75	J. P. ...			...

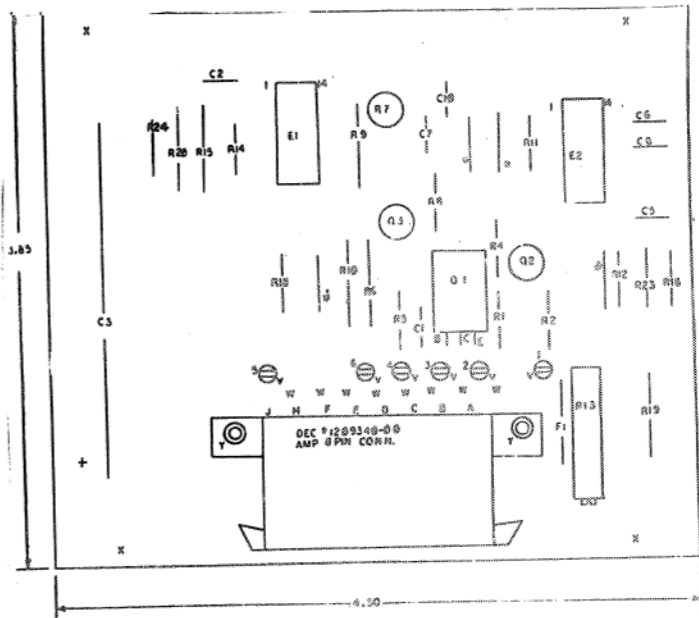
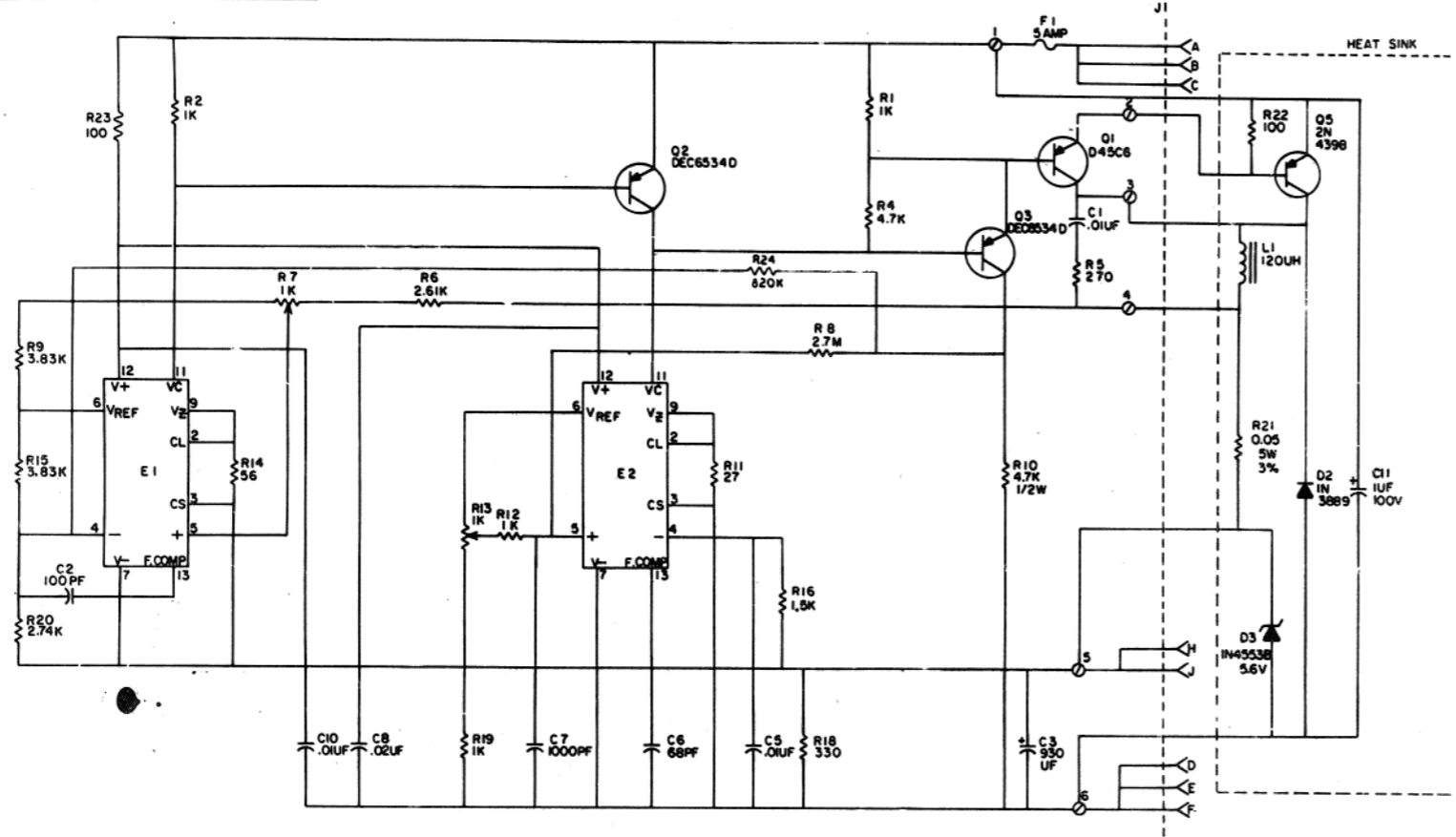
  

REV	DATE	BY	CHK	APP	DESCRIPTION
1	11/15/75	J. P. ...			...
2	11/17/75	J. P. ...			...
3	11/17/75	J. P. ...			...
4	11/17/75	J. P. ...			...
5	11/17/75	J. P. ...			...
6	11/17/75	J. P. ...			...
7	11/17/75	J. P. ...			...
8	11/17/75	J. P. ...			...

**DIGITAL** ELECTRONIC SYSTEMS  
 TITLE: **+5 VOLT POWER REGULATOR**  
 PART NO: **5409503-0-0**  
 REV: **8**



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FILE NO. D CS 5409503-0-1 REV M

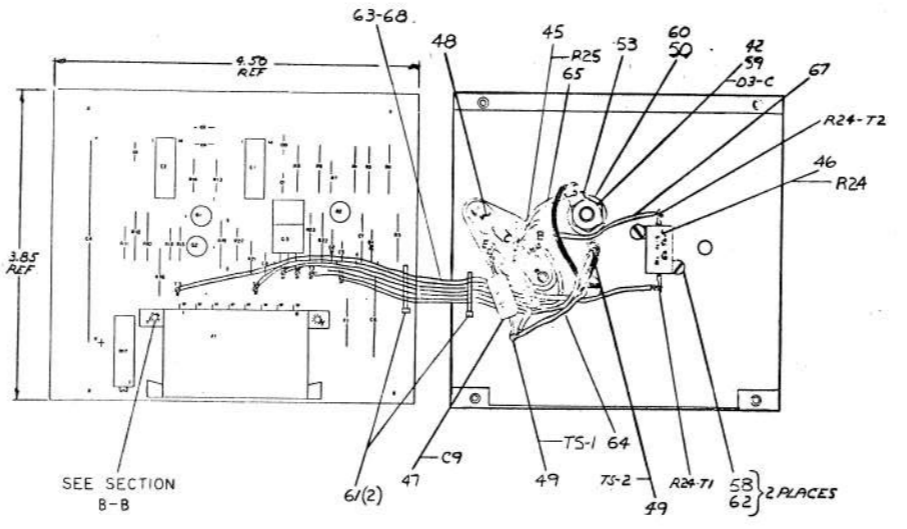
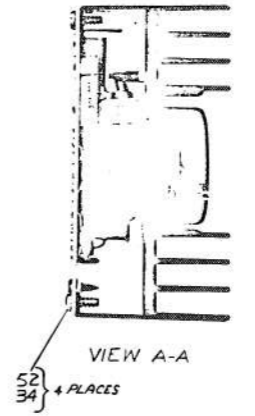
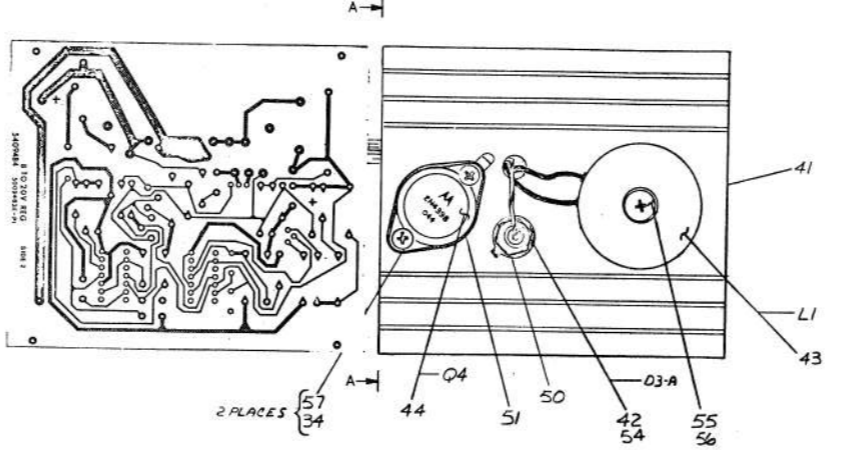
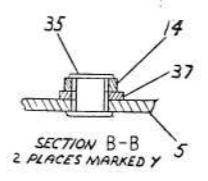
REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	6-2-72	S. CORPORA			INITIAL DESIGN
2	6-7-72	MARKY HENR			REVISED FOR MANUFACTURING
3	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
4	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
5	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
6	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
7	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
8	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
9	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING
10	7-7-72	MARKY HENR			REVISED FOR MANUFACTURING

DRN S CORPORA 6-2-72		DATE 6-2-72		TRANSISTOR & DIODE CONVERSION CHART		TITLE 5 VOLT REGULATOR	
CHKD MARKY HENR 6-7-72	DATE 6-7-72	DEC	EVA	DEC	EVA	DATA	
DATE 7-7-72	DATE 7-7-72	DEC6534C	INPR6521	TR752A	SANK	EQUIPMENT CORPORATION	NUMBER 5409503-0-1
DATE 7-7-72	DATE 7-7-72	D45C6	IN3889	SANK		PRINTED CIRCUIT REV F	REV M
DATE 7-7-72	DATE 7-7-72	DEC6534D	IN3889				
DATE 7-7-72	DATE 7-7-72	D45C6					
DATE 7-7-72	DATE 7-7-72	DEC6534D					
DATE 7-7-72	DATE 7-7-72	D45C6					
DATE 7-7-72	DATE 7-7-72	DEC6534D					
DATE 7-7-72	DATE 7-7-72	D45C6					

PINKY

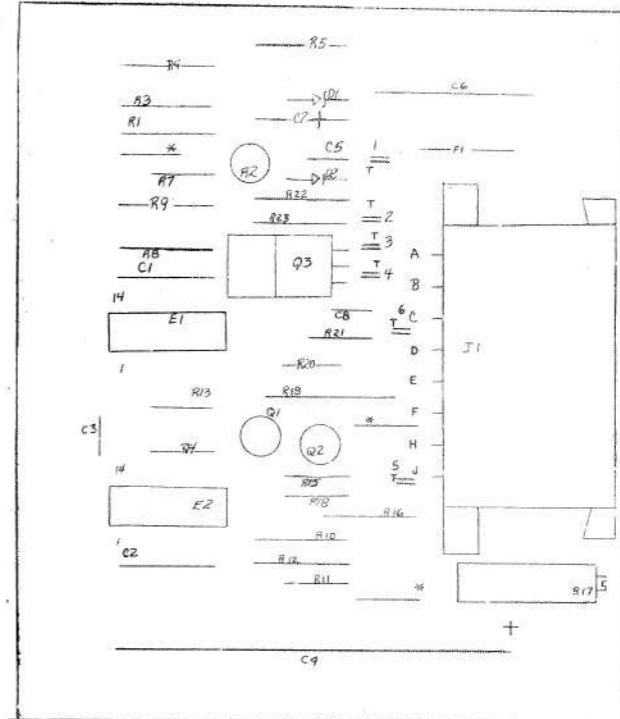
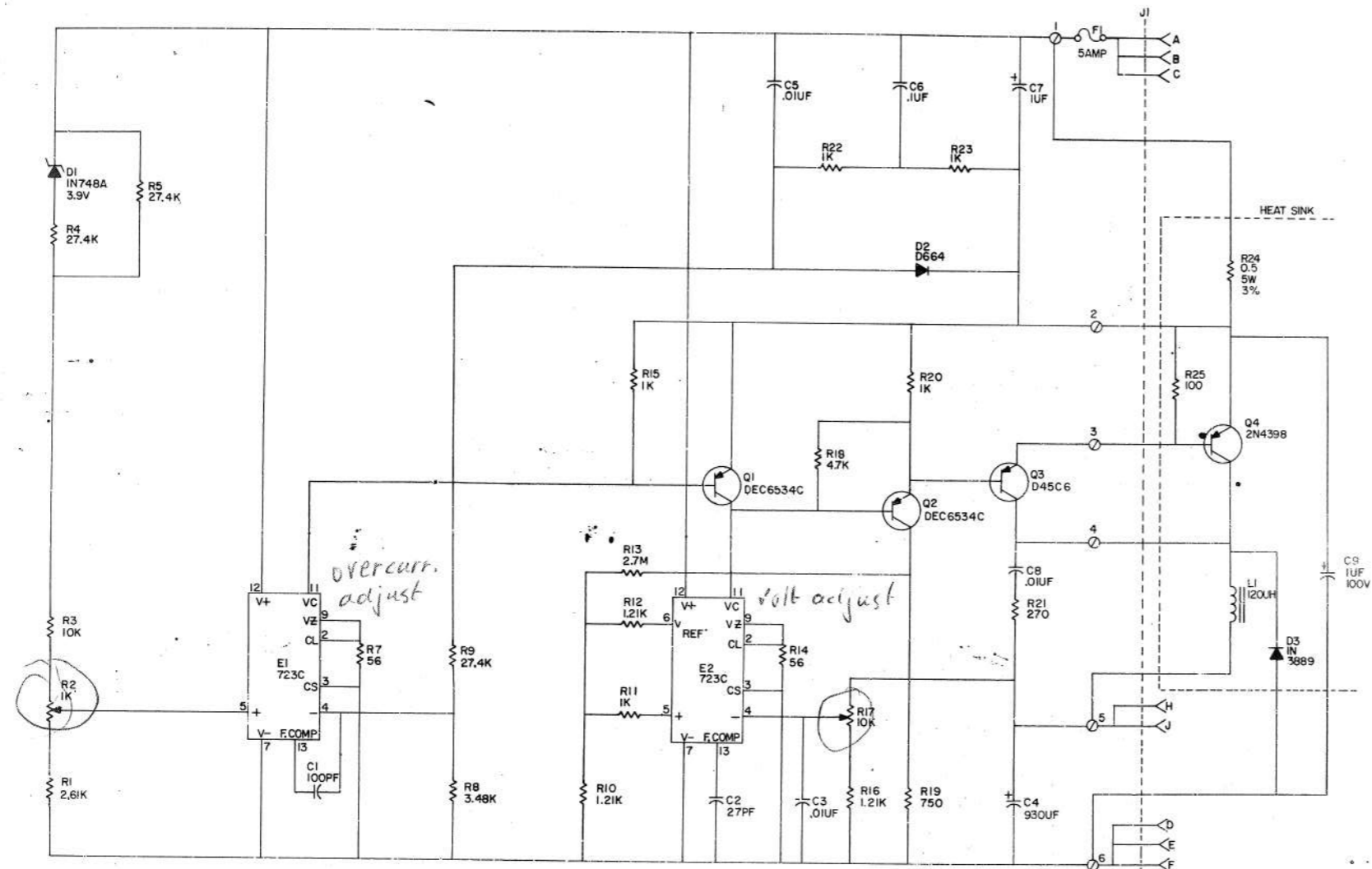
WIRE TABLE				EXTERNAL COMPONENTS						
ITEM	DESCRIPTION	LENGTH INCHES	STRIP STRIP LENGTH LENGTH	CONNECTIONS FROM TO	ITEM NO.	LENGTH INCHES	DESCRIPTION	POL.	CONNECTIONS FROM TO	POL.
43	BLK	2.78	1/2	L1	03-A	9.3	RESISTOR	C9-B	C9-B	-
45	BLU	2.74	1/2	G4-C	03-A	9.7	RESISTOR	C9-B	C9-B	-
47	GRN	3.4	1/2	G4-E	R24-T2					
48	GRN	4.32	1/2	G4-E	R24-T1					
49	WHT	5.28	1/2	R24-T1	R24-T1					
50	GRY	2.78	1/2							
51	WHT	5.28	1/2							
52	BLU	5.28	1/2							
53	GRN	5.28	1/2							
54	GRN	5.28	1/2							
55	BLU	5.28	1/2							
56	GRN	5.28	1/2							
57	BLK	6.28	1/2							

- 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	PARTS LIST	PART NO.	ITEM
		<b>DIGITAL</b>		
		<b>8 TO 20V</b>		
		<b>REGULATOR</b>		
		SCALE	5109454-0-0	
		DATE		

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QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.
1	R6	RES. 2.7M 5% 1/4W	1309680	1	R11, 15, 20	RES. 1K 1/4W 5%	1300365
1	J1	CONNECTOR PINS	1209456	1	D1	DIODE ZENER IN748A 3.9V	1100132
1	F1	AMP 8 PIN CONNECTOR (MATE & LOCK)	1209340-00	1	D2	DIODE D664	1100114
1				1	C6	CAP. 100UF 35V -10 +75%	1010809
2				1	C5	CAP. .01UF 100V 10% MTLR	1012342
2				1	C7	CAP. 1UF 35V 10% S. TANT	1001776
6				1	C2	CAP. 27PF 100V 5% MTLR	1001739
2	R1, 2	RES. 27.4K 1/8W 1% MF	1309412	3	C3, 5	CAP. .01UF 100V 20% MTLR	1001510
1	Q3	DIODE REGULATOR 723C	1309413	1	C1	CAP. 100PF 100V 5% MTLR	1000016
1	Q3	TRANSISTOR D45C6	1309414	1			
1	Q1, 2	TRANSISTOR DEC 6534C	1303409-02	1			
1	R3	RES. 2.7M 5% 1/4W	1309680	1			
1	R4, 9, 5	RES. 27.4K 1/8W 1% MF	1309412	1			
1	R2	RES. VARIABLE 1K 1/4W	1309150-33	1			
1	R17	RES. VARIABLE 10K 3/4W	1309141-10	1			
1	R8	RES. 3.48K 1/8W 1% MF	1305113	1			
1	R3	RES. 10K 1/8W 1% MF	1303312	1			
2	R22, 23	RES. 1K 1/8W 1% MF	1303414	2			
1	R1	RES. 2.61K 1/8W 1% MF	1303303	1			
3	R10, 17, 16	RES. 1.21K 1/8W 1% MF	1302873	2			
2	R7, 14	RES. 56 1/4W 5%	1302602	1			
1	R19	RES. 750 1W 5%	1302385	1			
1	R21	RES. 270 1/4W 5%	1301972	1			
1	R18	RES. 4.7K 1/4W 5%	1300487	1			
1	R11, 15, 20	RES. 1K 1/4W 5%	1300365	1			
1	D1	DIODE ZENER IN748A 3.9V	1100132	1			
1	D2	DIODE D664	1100114	1			
1	C6	CAP. 100UF 35V -10 +75%	1010809	1			
1	C5	CAP. .01UF 100V 10% MTLR	1012342	1			
1	C7	CAP. 1UF 35V 10% S. TANT	1001776	1			
1	C2	CAP. 27PF 100V 5% MTLR	1001739	1			
3	C3, 5	CAP. .01UF 100V 20% MTLR	1001510	1			
1	C1	CAP. 100PF 100V 5% MTLR	1000016	1			
1		ETCHED CIRCUIT BOARD	5002483	1			
1		MODULE ECO HISTORY	B-ME-5409484-0-8	1			
1		ASRY/DRILLING HOLE LAYOUT	B-ME-5409484-0-5	1			
1		X-Y COORDINATE HOLE LOCAT.	B-ME-5409484-0-4	1			
1				1			
1				1			

AR	DESCRIPTION	QTY.	REF. DESIGNATION
1	8 TO 20V REGULATOR	1	
1	20 CONDUCTOR CABLE	1	
1	#10/32 HEX NUT	56	
2	2/56 X 3/16" SCREW	56	
2	6/32 X 1/4" PAN HD SCREW	54	
1	10/32 X 1" TRUSS HD SCREW	53	
1	#10 INTERNAL LOCK WASHER	52	
1	BUSHING (DIODE)	51	
1	SOLDER LUG	50	
1	#6 SELF TAPING SCREW	49	
1	THERMAL INSULATOR	48	

QTY.	DESCRIPTION	DEC PART NO.	QTY.	DESCRIPTION	DEC PART NO.	
1	THERMAL INSULATOR	9008119	1	STAND OFF (STUD TYPE)	9009066	
1	TRANSISTOR SOCKET	1210130	1	C9	CAP. 1UF 100V	1005507
1	R24	RES. 0.5 3/4 5W	1	R24	RES. 0.5 3/4 5W	1310508
1	R25	RES. 100 5% 1/4W	1	R25	RES. 100 5% 1/4W	1300329
1	Q4	TRANSISTOR 2N4398	1	Q4	TRANSISTOR 2N4398	1300870
1	L1	120UH CHOKE	1	L1	120UH CHOKE	1300573
1	D3	DIODE 1N3889	1	D3	DIODE 1N3889	1100491
1		HEAT SINK	1		HEAT SINK	5309241
1			1			

REVISIONS  
 DATE: 6/2/71  
 BY: [Signature]  
 REASON: [Signature]


TRANSISTOR & DIODE CONVERSION CHART

DEC	IA	DEC	IA
DEC6534C	MPS6533	DEC664	IN3800
IN748A	SAME	IN748A	SAME

EQUIPMENT CORPORATION  
 5409484-0-1  
 PRINTED CIRCUIT REV. D

DRWG NO	REVLTR
K-WL-RKØ5-Ø-3	B

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

DRAWN <i>RE Hellen</i>	DATE 11/8/71		TITLE WIRE LIST (RKØ5)		
CHECKED <i>J. Perry</i>	DATE 11-9-71		FOR TAPE # FILE *		
ENG <i>Daly 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 B
PROD <i>Alan Karlberg</i>	DATE 11/29/71	SHEET   OF	DIST.		

PK051044H	WRP288, V22(22) 11/06/73	11-FEB-74	2314	PAGE 1		
RUN NAME	A/P PIN ORDER PIN	Q DRAW RV PG Y X Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
+15VDC	H A0502					1
+15VDC	H A0601	D05-9				1
+15VDC		D05-9				1
+5VDC HUBB	H B06A1	D05-9				2
+5VDC HUBB	H B06A2	D05-9				2
+5VDC HUBB						2
12H	H A01M2	D05-1				3
12H	H R03A1	D05-1				3
12H						3
AC L0*	H A04R2	D05-6				4
AC L0*	H R07F1	D05-8				4
AC L0*	H R07F1	D05-8				4
AC L0*						4
ADDR ACCEPTED	L A02S1	D05-5				5
ADDR ACCEPTED	L A03M1	D05-5				5
ADDR ACCEPTED						5
ADDRESS INVALID	L R02F1	D05-2				6
ADDRESS INVALID	L R03E1	D05-2				6
ADDRESS INVALID						6
BLOWER MTR RELAY DR	H A04A1	D05-9				7
BLOWER MTR RELAY DR	H R06M1	D05-9				7
BLOWER MTR RELAY DR						7
BUS ADDR ACCEPTED	L A02H1	D05-4				8
BUS ADDR ACCEPTED	L A07R2	D05-4				8
BUS ADDR ACCEPTED	L A08R2	D05-4				8
BUS ADDR ACCEPTED						8
BUS ADDR INVALID	L A0RT2	D05-4				9
BUS ADDR INVALID	L A0TT2	D05-4				9
BUS ADDR INVALID	L R02A1	D05-4				9
BUS ADDR INVALID						9
BUS FILE READY	L A04M1	D05-7				10
BUS FILE READY	L R08M1	D05-7				10
BUS FILE READY	L R07M1	D05-7				10
BUS FILE READY						10



RP288,V22(22) 11/06/73	11-FEB-74		2314		PAGE 4										
RUN NAME	A/P	PIN	ORDER	HAY	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
CYC ADDR 0	L	A08E1	1-01				D05-6				2				30
CYC ADDR 1	L	A07E1	1-02				D05-6				1				30
CYC ADDR 6	L	B03V1	1-03				D05-6						12-6/8		30
CYC ADDR 0			1												30
CYC ADDR 7	L	A07H1	1-01				D05-6				2				31
CYC ADDR 7	L	A08H1	1-02				D05-6				1				31
CYC ADDR 7	L	B03S1	1-03				D05-6						11-3/8		31
CYC ADDR 7			1												31
DC LOW	H	A04D1	1-01				D05-8				1				32
DC LOW	H	B08F2	1-02				D05-8				2				32
DC LOW	H	B07F2	1-03				D05-8						11-1/8		32
DC LOW			1												32
DIFF 1	L	A03A1	1-01				D05-7				1				33
DIFF 1	L	B05W2	1-02				D05-7								33
DIFF 1			1										8-4/8		33
DIFF 1b	L	A03E1	1-01				D05-7				1				34
DIFF 1b	L	B05T2	1-02				D05-7								34
DIFF 1b			1										8-4/8		34
DIFF 2	L	A03B1	1-01				D05-7				1				35
DIFF 2	L	B05P2	1-02				D05-7								35
DIFF 2			1										8-2/8		35
DIFF 4	L	A03D1	1-01				D05-7				1				36
DIFF 4	L	B05R2	1-02				D05-7								36
DIFF 4			1										8-2/8		36
DIFF 8	L	A03C1	1-01				D05-7				1				37
DIFF 8	L	B05S2	1-02				D05-7								37
DIFF 8			1										8-4/8		37
DISK RELAY DR	H	A04M1	1-01				D05-8				1				38
DISK RELAY DR	H	B06P1	1-02				D05-8								38
DISK RELAY DR			1										6-6/8		38
DR UNLOCKING SOLENOID	L	A06P1	1-01				D05-8				1				39
DR UNLOCKING SOLENOID	L	B04V1	1-02				D05-8								39
DR UNLOCKING SOLENOID			1										7-2/8		39
FAULT IND	H	A04N2	1-01				D05-8				1				40
FAULT IND	H	A06H1	1-02				D05-8								40
FAULT IND			1										4-0/8		40

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RUN NAME	A/P	PIN	ORDER	HAY	Q	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	RUN NUMBER
FWD	H	B03J1	1-01				D05-5				1				41
FWD	H	B05J2	1-02				D05-5								41
FWD			1										4-2/8		41
GND 01		A01C2	1-01								1				42
GND 01		A01T1	1-02								2				42
GND 01		B01C2	1-03								1				42
GND 01		R01T1	1-04												42
GND 01			1										13-6/8		42
GND 02		A02C2	1-01								1				43
GND 02		A02T1	1-02								2				43
GND 02		R02C2	1-03								1				43
GND 02		H02T1	1-04												43
GND 02			1										13-6/8		43
GND 03		A03C2	1-01								1				44
GND 03		A03T1	1-02								2				44
GND 03		R03C2	1-03								1				44
GND 03		R03T1	1-04												44
GND 03			1										13-6/8		44
GND 04		A04C2	1-01								1				45
GND 04		A04T1	1-02								2				45
GND 04		B04C2	1-03								1				45
GND 04		R04T1	1-04												45
GND 04			1										13-6/8		45
GND 05		A05C2	1-01								1				46
GND 05		A05T1	1-02								2				46
GND 05		R05C2	1-03								1				46
GND 05		R05T1	1-04												46
GND 05			1										13-6/8		46
GND 06		A06C2	1-01								1				47
GND 06		A06T1	1-02								2				47
GND 06		R06C2	1-03												47
GND 06		R06C1	1-04				D05-9				1				47
GND 06		R06E1	1-05				D05-9				1				47
GND 06		R06J1	1-06				D05-9				2				47
GND 06		H06T1	1-07				D05-9				1				47
GND 06		R06S1	1-08				D05-9								47
GND 06			1										23-6/8		47

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WRP288,V22(22) 11/06/73  
A/P PIN ORDER BAY - U DRAW RV PG Y X Z REMARKS

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LENGTH EXCEPTIONS RUN NUMBER

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

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WRP288,V22(22) 11/06/73  
A/P PIN ORDER BAY - U DRAW RV PG Y X Z REMARKS

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LENGTH EXCEPTIONS RUN NUMBER

RUN NAME	A/P	PIN	ORDER	BAY	U	DRAW	RV	PG	Y	X	Z	REMARKS	LENGTH	EXCEPTIONS	PAGE 7	RUN NUMBER
HOME	L	A04R1		1-01					D05=7		2					53
HOME	L	B03B1		1-02					D05=7		1					53
HOME	L	B06F1		1-03					D05=7				9=6/8			53
HOME	L			1					D05=7							53
INDEX PULSE	L	A02R2		1-01					D05=3		1					54
INDEX PULSE	L	A04J1		1-02					D05=3				4=1/8			54
INDEX PULSE	L			1					D05=3							54
INDEX/SECTOR	L	B02D1		1-01					D05=5		1					55
INDEX/SECTOR	L	B04H2		1-02					D05=5				4=4/8			55
INDEX/SECTOR	L			1					D05=5							55
INNER LIMIT	H	A05B1		1-01					D05=2		1					56
INNER LIMIT	H	A03U1		1-02					D05=2		2					56
INNER LIMIT	H	B02J1		1-03					D05=2							56
INNER LIMIT	H			1					D05=2				11=0/8			56
INTERLOCK	L	A04H1		1-01					D05=7		1					57
INTERLOCK	L	A06R1		1-02					D05=7				4=3/8			57
INTERLOCK	L			1					D05=7							57
LIMIT	H	A05K1		1-01					D05=9		1					58
LIMIT	H	B06H1		1-02					D05=9							58
LIMIT	H			1					D05=9				6=0/8			58
LOAD HEADS	L	B03C1		1-01					D05=6		1					59
LOAD HEADS	L	R04C1		1-02					D05=6				3=4/8			59
LOAD HEADS	L			1					D05=6							59
LOAD IND	H	A04L1		1-01					D05=8		1					60
LOAD IND	H	A06A1		1-02					D05=8				4=3/8			60
LOAD IND	H			1					D05=8							60
LOAD SW	L	A06K1		1-01					D05=7		1					61
LOAD SW	L	B04D1		1-02					D05=7				6=0/8			61
LOAD SW	L			1					D05=7							61
MOVE	L	A03L1		1-01					D05=2		1					62
MOVE	L	B02P1		1-02					D05=2				6=6/8			62
MOVE	L			1					D05=2							62
NO PROTECT	L	A01N2		1-01					D05=1		1					63
NO PROTECT	L	B04H1		1-02					D05=1				6=2/8			63
NO PROTECT	L			1					D05=1							63



WK05LH,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
ON		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
OUTER LIMIT		1	7-4/8	65
POWER AMP DR	H R05U2	1-01		66
POWER AMP DR	H R06M1	1-02		66
POWER AMP DR		1	4-0/8	66
PROTECT IND	H A06C1	1-01		67
PROTECT IND	H R04U2	1-02		67
PROTECT IND		1	8-2/8	67
PWR SEC XNSDUR	H A02D1	1-01		68
PWR SEC XNSDUR	H R06K1	1-02		68
PWR SEC XNSDUR		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
R/W/S READY		1	10-0/8	69
R/W/S READY	L A01P2	1-01		70
R/W/S READY	L R02K1	1-02		70
R/W/S READY		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
READ CLOCK		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
READ DATA		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
READ GATE		1	11-3/8	73

WK05LH,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
READ IND		1	5-2/8	74
READY	H A02C1	1-01		75
READY	H A04U1	1-02		75
READY		1	5-6/8	75
READY IND	H A06B1	1-01		76
READY IND	H R04N1	1-02		76
READY IND		1	8-0/8	76
RESTORE	H A02H1	1-01		77
RESTORE	H A03J1	1-02		77
RESTORE		1	3-7/8	77
RESTORE	L A08M1	1-01		78
RESTORE	L A07M1	1-02		78
RESTORE	L R02B1	1-03		78
RESTORE		1	10-2/8	78
REV	H R03H1	1-01		79
REV	H R05K2	1-02		79
REV		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
RK=110		1	10-2/8	80
RTZ	L A03F1	1-01		81
RTZ	L R02C1	1-02		81
RTZ		1	6-0/8	81
RUN S*	L A06L1	1-01		82
RUN S*	L R04L1	1-02		82
RUN S*		1	6-6/8	82
SECTOR	L A02S2	1-01		83
SECTOR	L R04K1	1-02		83
SECTOR		1	5-6/8	83
SECTOR/INDEX RAW	H A02E1	1-01		84
SECTOR/INDEX RAW	H R06L1	1-02		84
SECTOR/INDEX RAW		1	8-4/8	84

RP05L0.0 RUN NAME	WRP288.V22(22) 11/06/73	11-FEB-74	23:14	PAGE 10
A/P	PTN	ORDER	BAY	RUN
NAME	PIN	ORDER	NUMBER	NUMBER
SEEK DONE IND	H	A02V1	1-01	85
SEEK DONE IND	H	A06F1	1-02	85
SEEK DONE IND				85
SEL/WRITE PROTECT SET	L	R02R1	D05=5	86
SEL/WHITE PROTECT SET	L	R04R1	D05=5	86
SEL/WRITE PROTECT SET				86
SELECT	H	A01S2	D05=2	87
SELECT	H	A04S1	D05=2	87
SELECT	H	R02V2	D05=2	87
SELECT				87
SELECT 1	L	A08J2	D05=3	88
SELECT 1	L	A07J2	D05=3	88
SELECT 1	L	R02R2	D05=3	88
SELECT 1				88
SELECT 2	L	A08K2	D05=3	89
SELECT 2	L	A07K2	D05=3	89
SELECT 2	L	R02S2	D05=3	89
SELECT 2				89
SELECT 3	L	A08L2	D05=3	90
SELECT 3	L	A07L2	D05=3	90
SELECT 3	L	R02T2	D05=3	90
SELECT 3				90
SELECT 4	L	A08M2	D05=3	91
SELECT 4	L	A07M2	D05=3	91
SELECT 4	L	R02U2	D05=3	91
SELECT 4				91
SELECT/READY	L	A01H2	D05=1	92
SELECT/READY	L	A04V1	D05=1	92
SELECT/READY	L	R02H1	D05=1	92
SELECT/READY				92
SELECTED READ GATE	H	A01H1	D05=9	93
SELECTED READ GATE	H	A02F2	D05=9	93
SELECTED READ GATE				93
SELECTED WRITE GATE	H	A01V1	D05=1	94
SELECTED WRITE GATE	H	A02V2	D05=1	94
SELECTED WRITE GATE				94

RP05L0.0 RUN NAME	WRP288.V22(22) 11/06/73	11-FEB-74	23:14	PAGE 11
A/P	PTN	ORDER	BAY	RUN
NAME	PIN	ORDER	NUMBER	NUMBER
SET UNSAFE	L	A01U2	D05=1	95
SET UNSAFE	L	R04A1	D05=1	95
SET UNSAFE				95
SIN POSITION	H	A05M1	D05=9	96
SIN POSITION	H	R06D1	D05=9	96
SIN POSITION				96
STROBE	L	R02V1	D05=2	97
STROBE	L	R07H1	D05=2	97
STROBE	L	R08H1	D05=2	97
STROBE				97
UNSAFE	L	A01J2	D05=1	98
UNSAFE	L	A04V2	D05=1	98
UNSAFE				98
WRITE DATA + CLK	H	A01J1	D05=1	99
WRITE DATA + CLK	H	A07F2	D05=1	99
WRITE DATA + CLK	H	A08F2	D05=1	99
WRITE DATA + CLK				99
WRITE GATE	L	A01J2	D05=1	99
WRITE GATE	L	R07L2	D05=1	100
WRITE GATE	L	R08L2	D05=1	100
WRITE GATE				100
WRITE PROTECT SET	L	R02S1	D05=3	101
WRITE PROTECT SET	L	R07R2	D05=3	101
WRITE PROTECT SET	L	R08R2	D05=3	101
WRITE PROTECT SET				101
WRITE SW OFF	L	A06M1	D05=7	102
WRITE SW OFF	L	R04F1	D05=7	102
WRITE SW OFF				102
WRITE SW ON	L	A06M1	D05=7	103
WRITE SW ON	L	R04E1	D05=7	103
WRITE SW ON				103
WRITING IND	H	A02U1	D05=5	104
WRITING IND	H	A06E1	D05=5	104
WRITING IND				104