

digital

RK05J

Engineering Drawings

Digital Equipment Corporation

The material herein is for information purposes only and is subject to change without notice. Digital Equipment Corporation assumes no responsibility for any errors which may appear herein.

These drawings and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

Copyright © 1975, Digital Equipment Corporation

THIS IS PRINT SET ☒ ☐ ☐ ☐

100

A-PL-RK05-0-2
B-DD-RK05J-T
D-UA-RK05J-0-0
A-PL-RK05J-0-0
D-AD-7008696-0-0
D-AD-7008702-0-0
A-PL-7008702-0-0
B-DD-H743-0
A-WT-7008696-0
B-MD-7419064-0-0

REVISIONS		DATE	CHG. NO.	REV
	A.V.	RK05-69	AL	
DWG WAS RK05-0				
	A.V.	RK05J-3	AM	
	A.V.	RK05J-4	AN	
	A.V.	RK05J-5	AP	
	A.V.	RK05J-6	AR	
	A.V.	RK05J-7	AS	
	A.V.	RK05J-8	AT	
	A.V.	RK05J-9	AU	
	A.V.	RK05J-10	AV	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

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

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

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

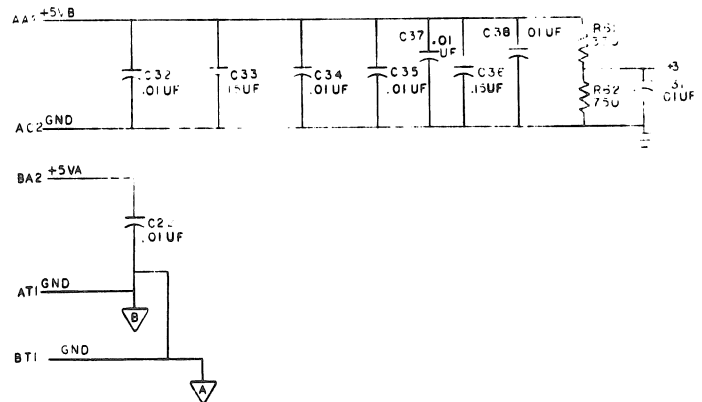
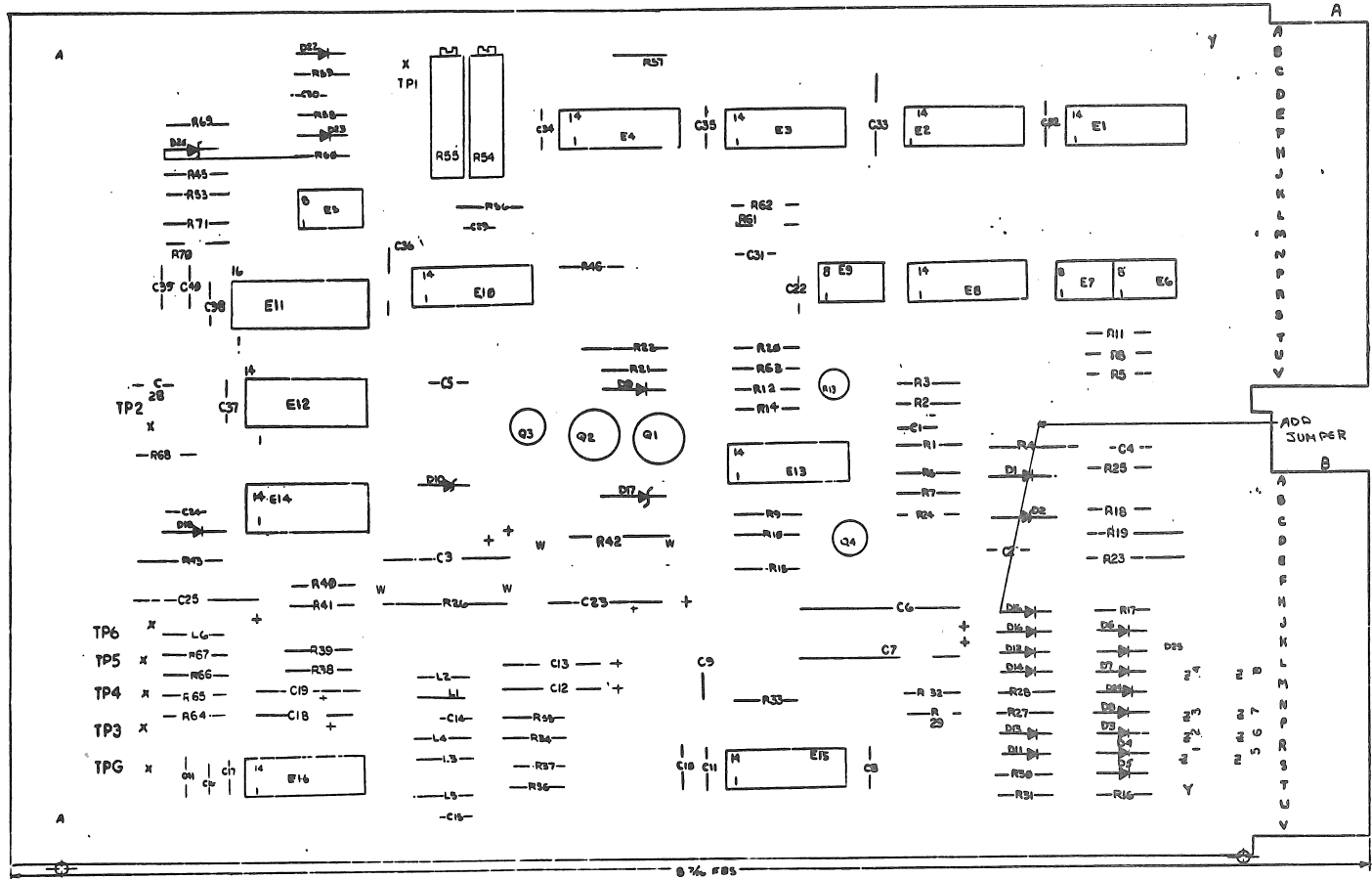
REV.	CHANGE NO.	CHK
A	RK05-00002	1/1/72
	D. JENSEN	1/1/72
B	RK05-00006	1/1/72
	D. JENSEN	1/1/72
C	RK05-00023	1/1/72
	D. JENSEN	1/1/72
D	RK05-00040	1/1/72
	D. JENSEN	1/1/72
E	RK05-00007	1/1/72
	D. JENSEN	1/1/72
	R. CHINSON	12 Jan. 77
	S. RADOFF	11/3/77

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

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

NOTES:

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



DEC 8640	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		

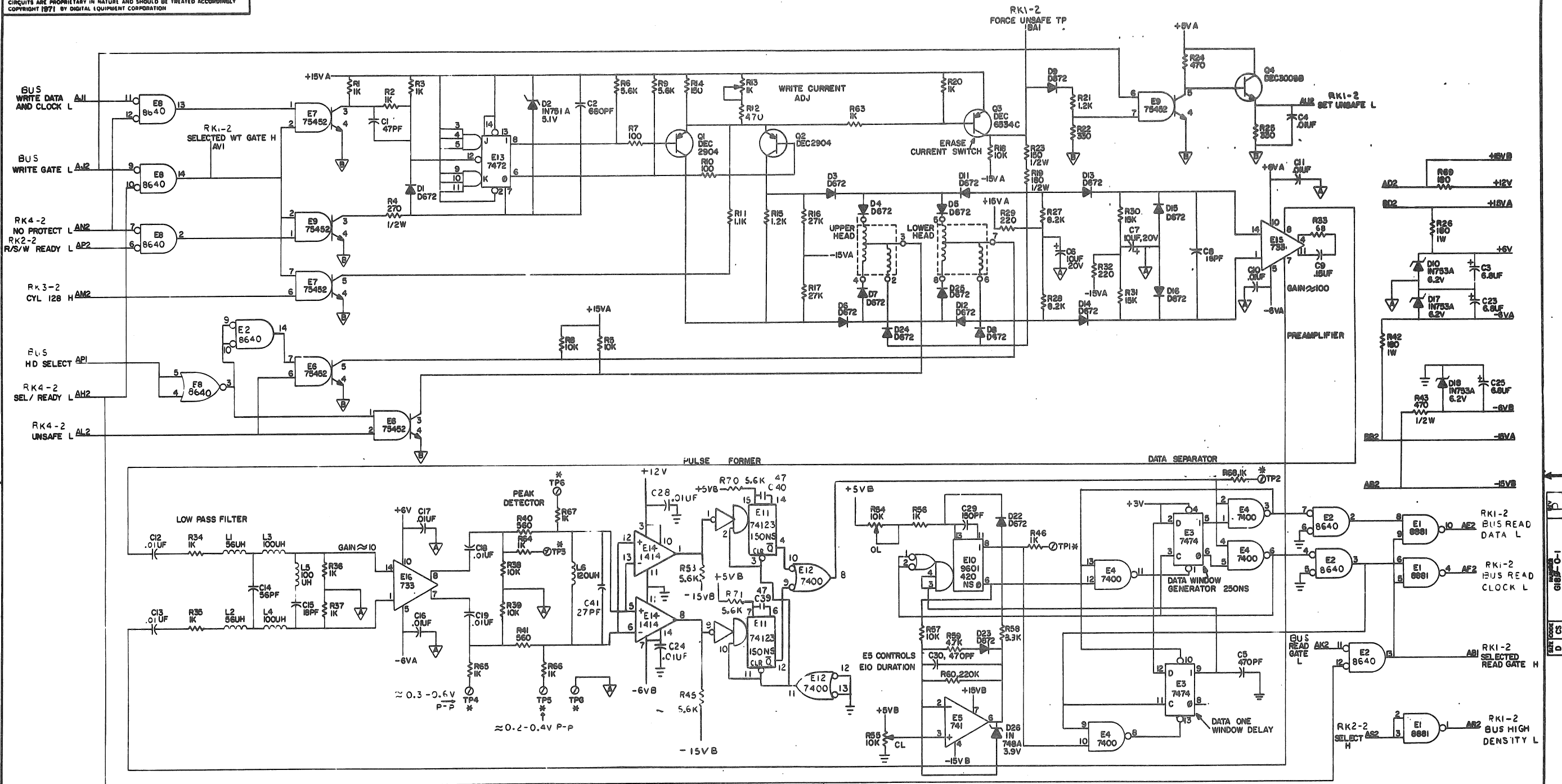
A/R	WIRE #30 AWG GREEN	9105740-55	80
1	D26	DIODE IN746A (3.9V ZENER)	1100122
1	R69	RES. 180 1/4W 5%	1301322
2	R7,R10	RES. 100 1/4W 5%	1300229
1		NOISE SHIELD	5009893
2		HANDLE FLIP CHIP-GREEN	9008337-01
7	TP6,TP1 THRU TP6	SWAGE LUG	9007791
2		HEX NUT,NYLON,*2-56	9007263
2		EYELET *6S4-7	9006732
2		INTERNAL LOCK WASHER *2-56	9006631
2		HEX NUT *2-56	9006555
2		SCREW 4/40X3/8	9006011-4
2		SCREW PAN HD *2-56X5/16	9006002-1
2		KEP NUT 4/40	9006557

9-13-77	S. RADOFF	13 AUG 77	P
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N
9-18-77	J. RINALDIS	11-2-75	N

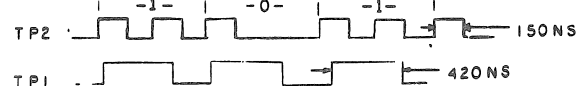
3	E6,E7,E9	I.C. DEC 75452	1910645	66
2	E15,I6	I.C. DEC 733	1910644	65
1	E14	I.C. DEC 1414	1910337	64
1	E5	I.C. DEC 741	1910298	63
1	E1	I.C. DEC 8881	1909705	62
2	E2,E8	I.C. DEC 8840	1911469	61
1	E10	I.C. DEC 9601	1909373	60
1	E13	I.C. DEC 7472	1905598	59
2	E4,E12	I.C. DEC 7400	1905575	58
1	E3	I.C. DEC 7474	1905547	57
1	L6	INDUCTOR 120UH	1610663	56
2	L1,L2	INDUCTOR 56UH	1610661	55
3	L3,L4,L5	INDUCTOR 100UH	1610662	54
1	Q3	TRANSISTOR DEC 6534C	1503409-02	53
1	Q4	TRANSISTOR DEC 3009B	1503100	52
2	Q1,Q2	TRANSISTOR 2N2904	1501742	51
1	R13	POT 1K 1/2W 20% 62PR	1309150-03	49
2	R54,R55	POT 10K 3/4W 10% 76PR	1309143-10	48
2	R16,R17	RES. 27K 1/4W 5%	1305346	47
2	R27,R28	RES. 0.2K 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%	1301390	43
6	R6,R9,45,53,70,71	RES. 5.6K 1/4W 5%	1301974	42
1	R11	RES. 1.1K 1/4W 5%	1301475	41
1	R58	RES. 3.3K 1/4W 5%	1300439	40
1	R62	RES. 750 1/4W 5%	1301401	39
2	R15,R21	RES. 1.2K 1/4W 5%	1301320	38
2	R30,R31	RES. 15K 1/4W 5%	1300496	37
6	R5,8,18,38,39,57	RES. 10K 1/4W 5%	1300479	36
1	R59	RES. 4.7K 1/4W 5%	1300447	35
1	E11	I.C. DEC. 74123	1910436	34
16	R1,R2,R3,R20,R34-37	RES. 1K 1/4W 5%	1300365	33
2	R24,R12	RES. 470 1/4W 5%	1300316	31
1	R43	RES. 470 1/2W 5%	1300315	30
3	R22,R25,R61	RES. 330 1/4W 5%	1300295	29
2	R29,R32	RES. 220 1/4 5%	1300271	28
2	R26,R42	RES. 180 1W 5%	1300262	27
1	R19	RES. 180 1/2W 5%	1300260	26
1	R14	RES. 150 1/4W 5%	1300250	25
1	R23	RES. 150 1/2W 5%	1300249	24
1	R33	RES. 68 1/4W 5%	1300219	23
8	I-8	GOLD WIREWAP PINS	9009217	22
18	D1,D3-9,D11-16,D22-25	DIODE D672	1105275	21
1	D2	DIODE IN 751A (5.1V ZENER)	1110994	20
3	D10,D17,D18	DIODE IN 753A (5.1V ZENER)	1102421	19
13	C9,C33,C36	CAP. 15UF 50V 10% PCL CARRO	1010031	17
1	C18	CAP. 10PF 100V 5% D.M.	1002688	16
4	C12,C13,C18,C19	CAP. 0.1UF 50V AXIAL	1001610-00	15
14	C40,11,16,17,22,24,33,31	CAP. 0.1UF 100V 20% DISC	10C1610-01	14
2	C6,C7	CAP. 10UF 35V 20% S.TANT	1000069	13
3	C3,C23,C25	CAP. 6.8UF 35V 20% S.TANT	1000067	12
1	C2	CAP. 680PF 100V 5% D.M.	1000026	11
2	C5,C30	CAP. 470PF 100V 5% D.M.	1000024	10
1	C29	CAP. 150PF 100V 5% D.M.	1000019	9
1	C41	CAP. 27PF 100V 5% D.M.	1001739	8
1	C14	CAP. 56PF 100V 5% D.M.	1000012	7
3	C1,C39,C40	CAP. 47PF 100V 5% D.M.	1000011	6
2	C8,C15	CAP. 18 PF 100V 5% D.M.	1002608	5
1		ETCHED CIRCUIT BOARD	5009743	1
1		MODULE ECO HISTORY	B-MH-G180-0-5	3
1		ASSY/DRILLING HOLE LAYOUT	E-AH-G180-0-5	2
1		X-Y COORDINATE HOLE LOCATION	K-30-G180-0-4	1

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV. L				
TITLE DEC PACK READ/ WRITE				
SIZE CODE DCS NUMBER G180-0-1 REV.				
SCALE SHEET 1 OF 2 DIST.				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
2N2904	2N2118A	IN753A	SAME	
DEC 3009B	2N3009	IN751A	SAME	
DEC 6534C	MPS6534	D672	IN3653	

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.



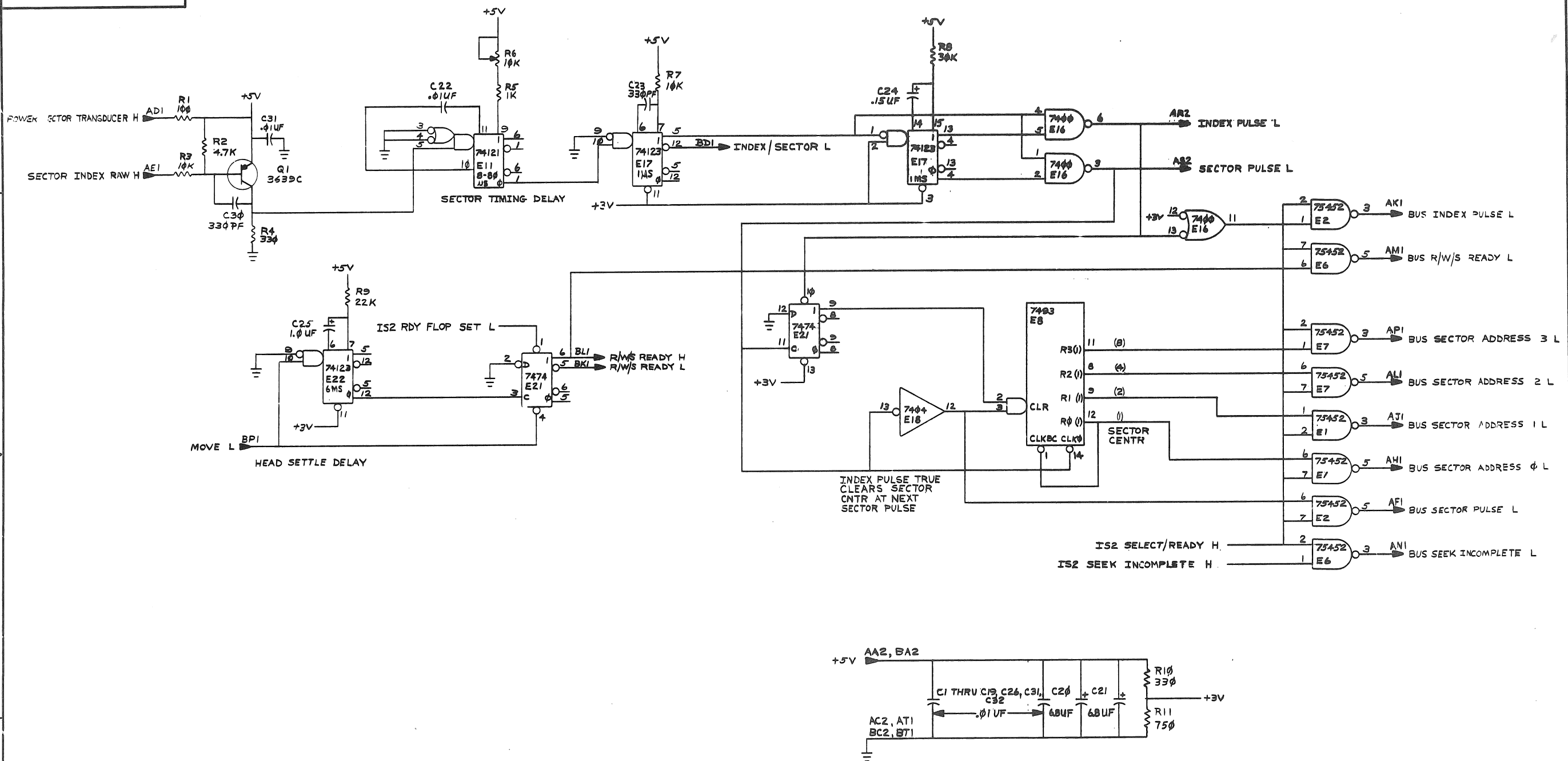
UNLESS OTHERWISE INDICATED:
 * INDICATES SWAGE LUG
 ▽ = ANALOG GND "A" BT1
 ▽ = ANALOG GND "B" AT1
 ⊥ = DIGITAL GND AC2
 ----- COMPONENTS NOT MOUNTED ON BOARD
 ALL TIMES INDICATED ARE NOMINAL



SLOT-1

REVISIONS		DATE		TRANSISTOR & DIODE CONVERSION CHART		TITLE	
1	10/11/71	DEC	DEC	DEC	DEC	DEC PACK READ/WRITE	
BY: J. Neale		DATE: 10/11/71		EQUIPMENT CORPORATION		NUMBER: RK1-2	
CHECKED: J. Neale		DATE: 10/11/71		PRINTED CIRCUIT REV.		SHEET 8 OF 8	

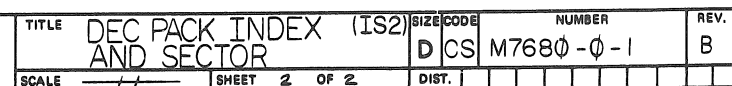
"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1976, DIGITAL EQUIPMENT CORPORATION"



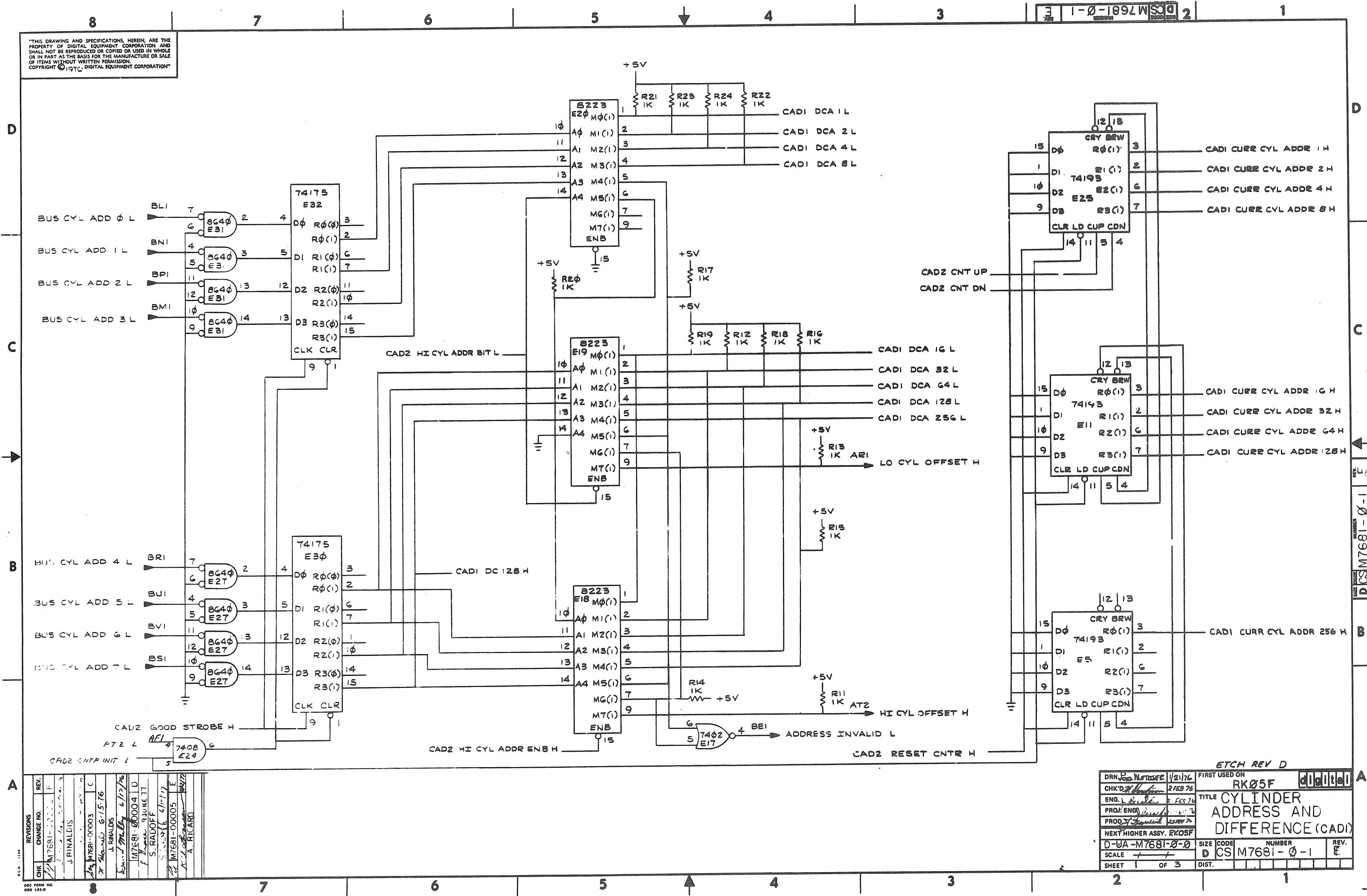
REV.	CHG.	NO.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20

DRN. 11/11/76	22 JAN 76	FIRST USED ON	digital
CHK'D 11/11/76	9 FEB 76	TITLE	DEC PACK INDEX (ISI)
ENG. 11/11/76	9 FEB 76	PROD. 11/11/76	25 FEB 76
PROJ. ENG. 11/11/76	9 FEB 76	NEXT HIGHER ASSY.	
D-1A-M7680-0-0		SIZE CODE	D CS
SCALE		NUMBER	M7680-0-1
SHEET 1 OF 2		DIST.	
		REV. B	

1

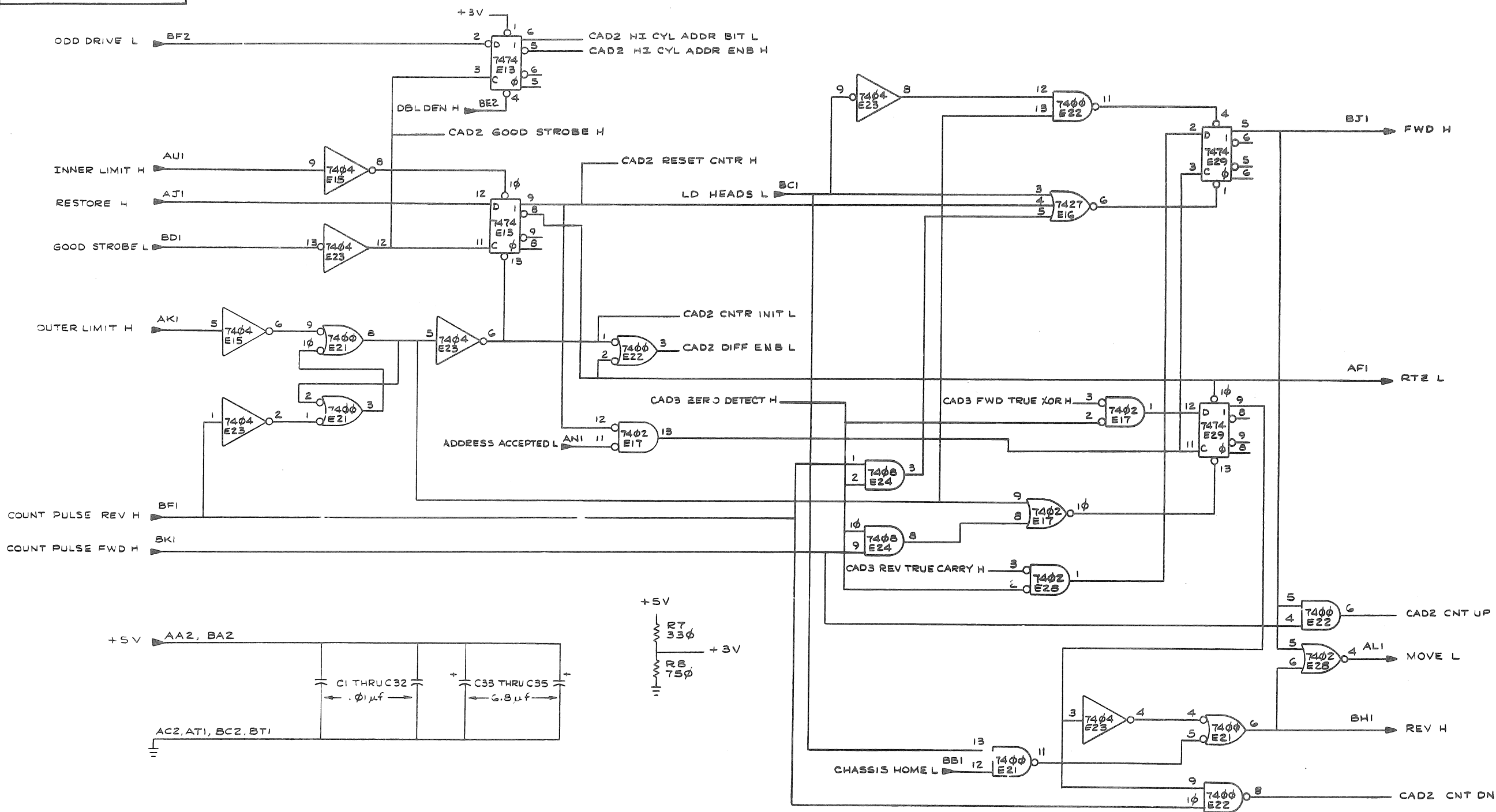


THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1976, DIGITAL EQUIPMENT CORPORATION



DRN. 1-0-1892 WSSD		ETCH REV D	
CHK'D	1/21/76	FIRST USED ON	RK05F
ENG. L. B. B.	2 FEB 76	TITLE	CYLINDER ADDRESS AND DIFFERENCE (CADI)
PROJ. ENG. J. B. B.	2 FEB 76	SIZE CODE	D CS M7681-0-1
PROD. J. B. B.	25 FEB 76	NUMBER	1
NEXT HIGHER ASSY. RK05F		REV.	E
D-VA-M7681-0-0		SHEET	1 OF 3
SCALE		DIST.	

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
COPYRIGHT © 1976 DIGITAL EQUIPMENT CORPORATION"



REVISIONS		
CHK	CHANGE NO.	REV.

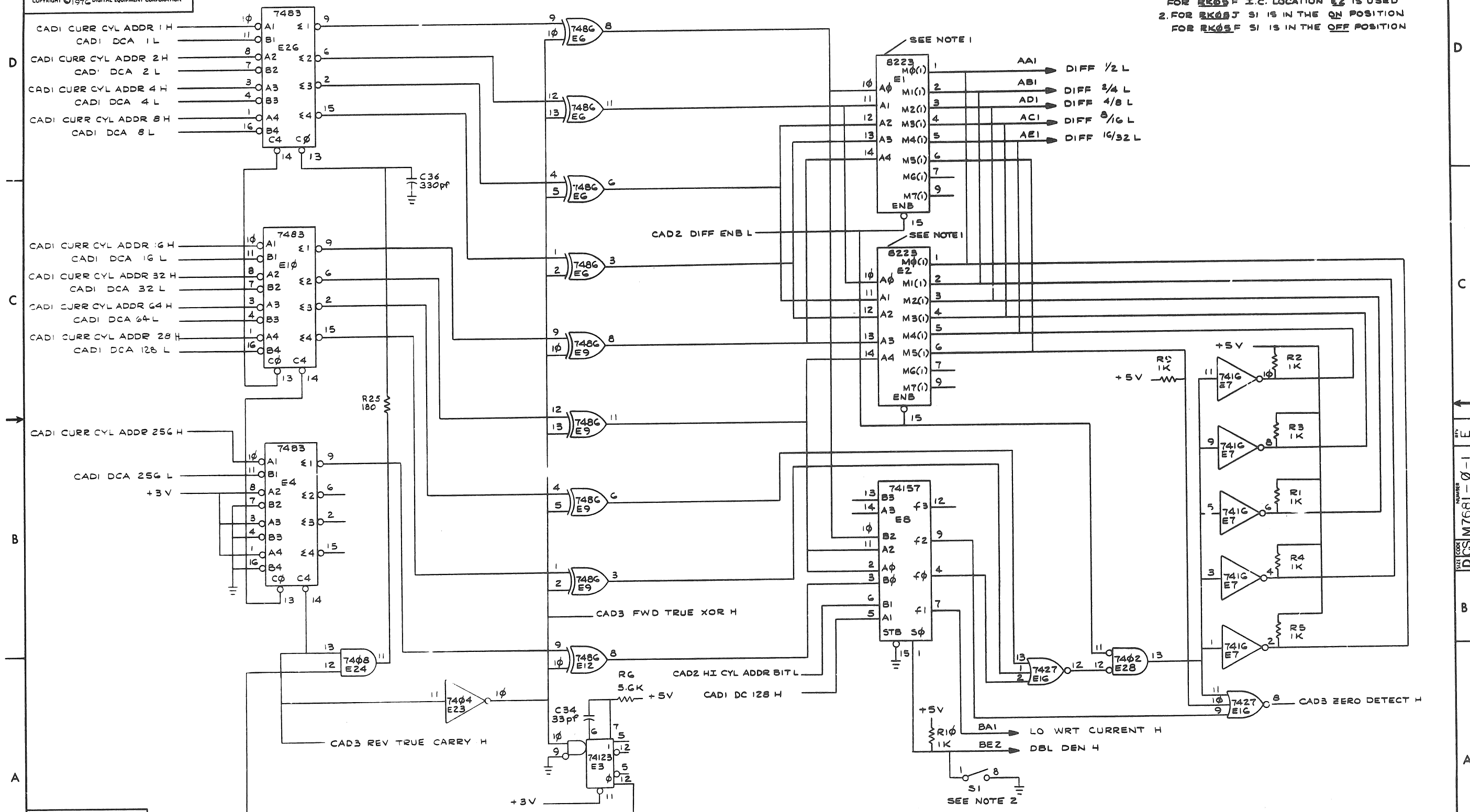
DEC FORM NO. DTD 138

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

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1976 DIGITAL EQUIPMENT CORPORATION

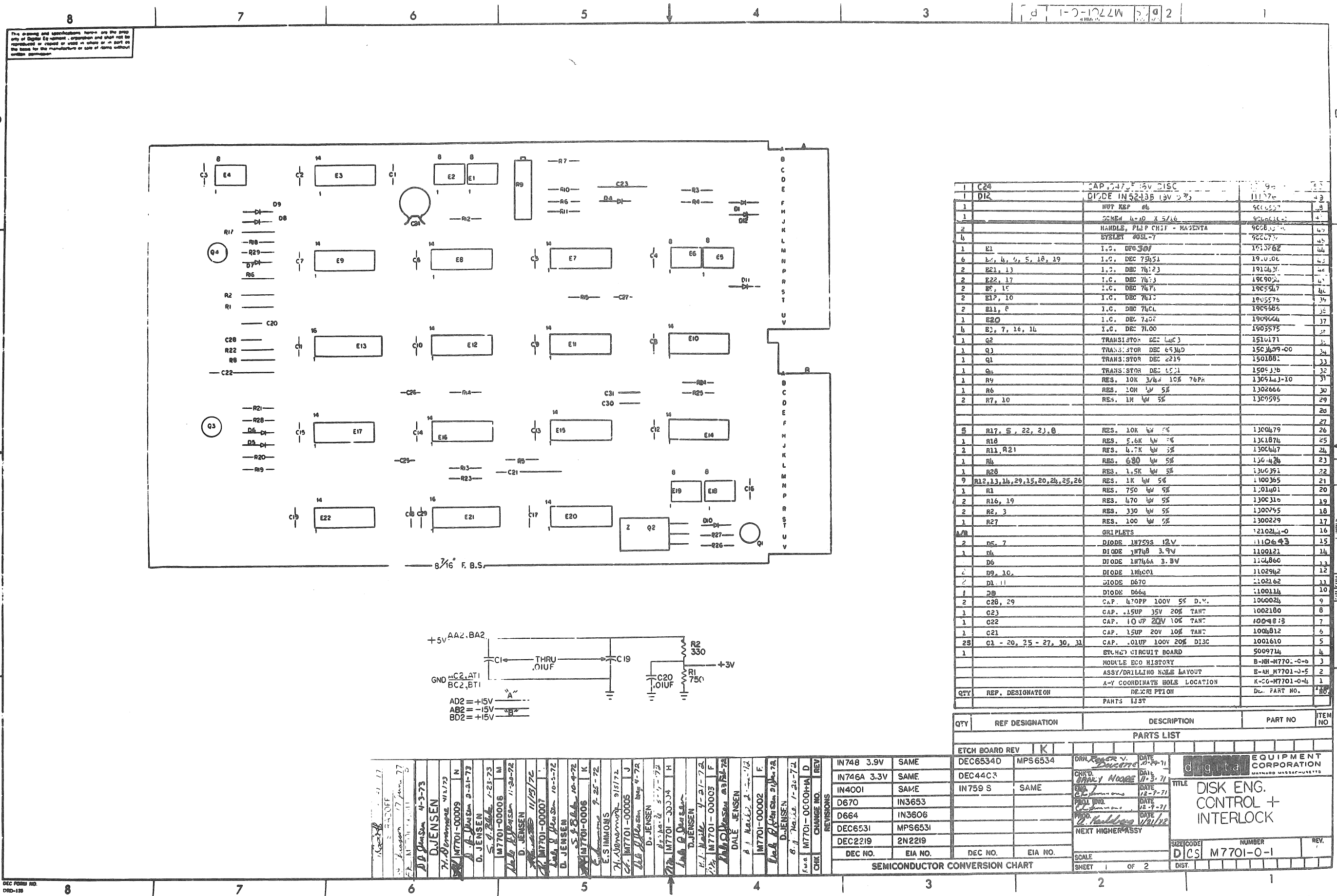
NOTE:

1. FOR 8K03J I.C. LOCATION E1 IS USED
FOR 8K03F I.C. LOCATION E2 IS USED
2. FOR 8K03J SI IS IN THE ON POSITION
FOR 8K03F SI IS IN THE OFF POSITION



REVISIONS		
CHK	CHANGE NO.	REV

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



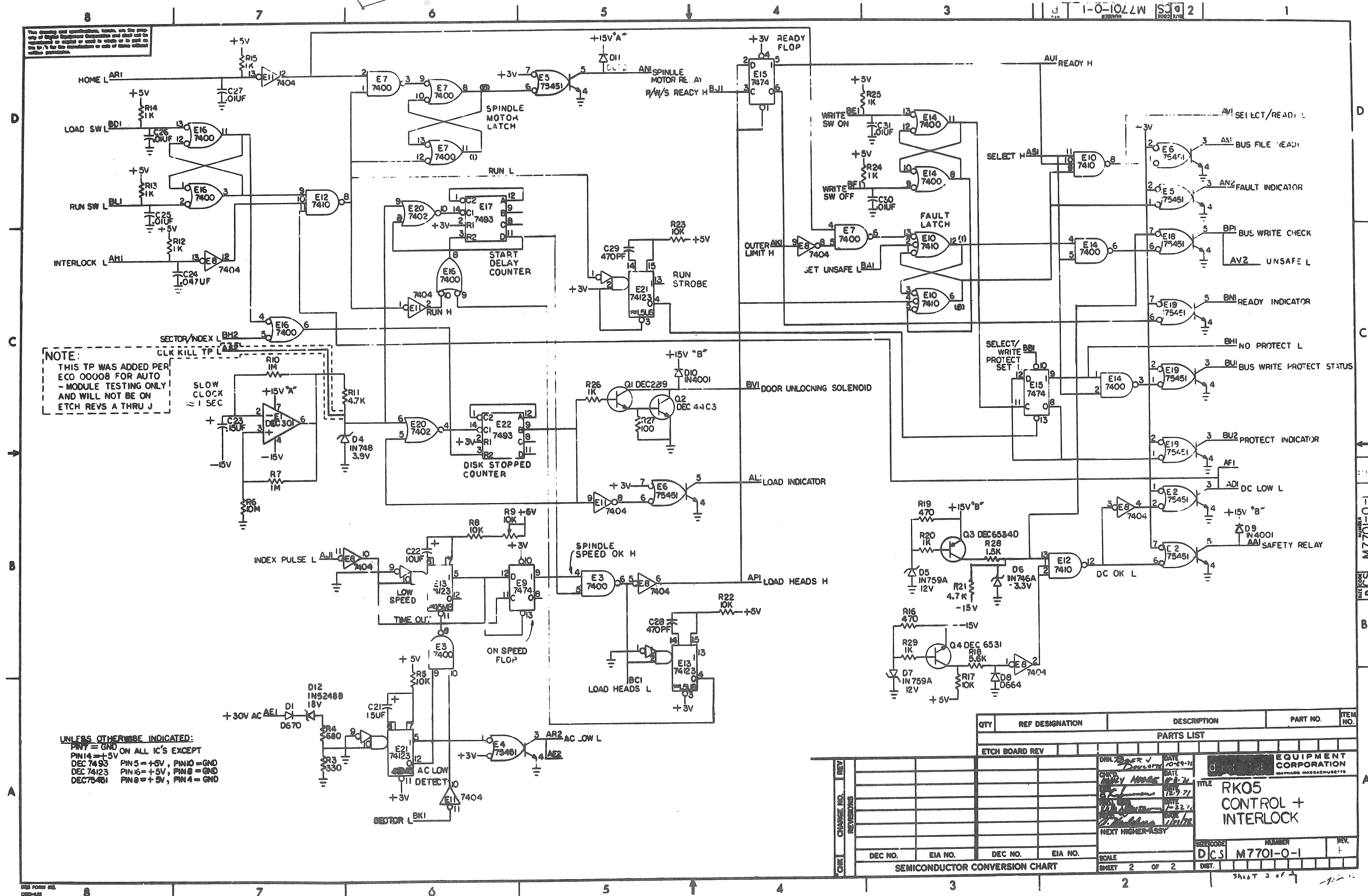
This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part, or any part thereof, without the written permission of Digital Equipment Corporation.

1	C24	CAP. 247 F 15V DISC	111076	43
1	D12	DIODE IN5243B 15V 2%	9600527	43
1		NUT KEP #6	9600527	43
1		SCHEM 4-10 X 5/16	9600527	43
2		HANDLE, PLIP CHIP - MAGENTA	9600527	43
4		SYSTEM #05L-7	9600527	43
1	E1	1.0. DEC 75451	1910431	43
6	E1, 4, 5, 10, 19	1.0. DEC 75451	1910431	43
2	E21, 13	1.0. DEC 74123	1910431	43
2	E22, 17	1.0. DEC 74123	1910431	43
2	E1, 15	1.0. DEC 74123	1910431	43
2	E12, 10	1.0. DEC 74123	1910431	43
2	E11, 8	1.0. DEC 74123	1910431	43
1	E20	1.0. DEC 74123	1910431	43
4	E1, 7, 16, 14	1.0. DEC 7100	1905575	43
1	Q2	TRANSISTOR DEC LMC3	1510171	43
1	Q1	TRANSISTOR DEC 6534D	1503479-00	43
1	Q1	TRANSISTOR DEC 2219	1501881	43
1	Q1	TRANSISTOR DEC 6521	1505326	43
1	R9	RES. 10K 1/4 10% 76Pa	1305443-10	43
1	R6	RES. 10K 1/4 5%	1302666	43
2	R7, 10	RES. 1M 1/4 5%	1309595	43
5	R17, 5, 22, 23, 8	RES. 10K 1/4 5%	1300479	43
1	R18	RES. 5.6K 1/4 5%	1301874	43
2	R11, R21	RES. 4.7K 1/4 5%	1300447	43
1	R4	RES. 680 1/4 5%	1304424	43
1	R28	RES. 1.5K 1/4 5%	1300391	43
9	R12, 13, 14, 29, 15, 20, 24, 25, 26	RES. 1K 1/4 5%	1100365	43
1	R1	RES. 750 1/4 5%	1301401	43
2	R16, 19	RES. 4.70 1/4 5%	1300310	43
2	R2, 3	RES. 330 1/4 5%	1300295	43
1	R27	RES. 100 1/4 5%	1300229	43
4/8		ORIPLETS	1210244-0	43
2	D5, 7	DIODE 1N753S 12V	1110643	43
1	D4	DIODE 1N748 3.9V	1100121	43
1	D6	DIODE 1N746A 3.3V	1104860	43
2	D9, 10	DIODE 1N4001	1102942	43
2	D1, 11	DIODE D670	1102162	43
1	D8	DIODE D664	1100114	43
2	C28, 29	CAP. 470PP 100V 5% D.C.	1000024	43
1	C23	CAP. .15UF 35V 20% TANT	1002180	43
1	C22	CAP. .10UF 20V 10% TANT	1004812	43
1	C21	CAP. .15UF 20V 10% TANT	1004812	43
25	C1 - 20, 25 - 27, 30, 31	CAP. .01UF 100V 20% DISC	1001610	43
1		ETCHED CIRCUIT BOARD	5009714	43
		MOD/LE ECO HISTORY	B-NR-M7701-0-6	43
		ASSY/DRILLING HOLE LAYOUT	B-NR-M7701-0-5	43
		X-Y COORDINATE HOLE LOCATION	K-CO-M7701-0-4	43
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV K				
	DEC6534D	MPS6534		
	IN748 3.9V	SAME		
	IN746A 3.3V	SAME		
	IN4001	SAME		
	D670	IN3653		
	D664	IN3606		
	DEC6531	MPS6531		
	DEC2219	2N2219		
	DEC NO.	EIA NO.	DEC NO.	EIA NO.
SEMICONDUCTOR CONVERSION CHART				
REVISIONS				
REV	DATE	BY	CHK	CHANGE NO.
1	11-25-72	D. JENSEN		
2	11-25-72	D. JENSEN		
3	11-25-72	D. JENSEN		
4	11-25-72	D. JENSEN		
5	11-25-72	D. JENSEN		
6	11-25-72	D. JENSEN		
7	11-25-72	D. JENSEN		
8	11-25-72	D. JENSEN		
9	11-25-72	D. JENSEN		
10	11-25-72	D. JENSEN		
11	11-25-72	D. JENSEN		
12	11-25-72	D. JENSEN		
13	11-25-72	D. JENSEN		
14	11-25-72	D. JENSEN		
15	11-25-72	D. JENSEN		
16	11-25-72	D. JENSEN		
17	11-25-72	D. JENSEN		
18	11-25-72	D. JENSEN		
19	11-25-72	D. JENSEN		
20	11-25-72	D. JENSEN		
21	11-25-72	D. JENSEN		
22	11-25-72	D. JENSEN		
23	11-25-72	D. JENSEN		
24	11-25-72	D. JENSEN		
25	11-25-72	D. JENSEN		
26	11-25-72	D. JENSEN		
27	11-25-72	D. JENSEN		
28	11-25-72	D. JENSEN		
29	11-25-72	D. JENSEN		
30	11-25-72	D. JENSEN		
31	11-25-72	D. JENSEN		
32	11-25-72	D. JENSEN		
33	11-25-72	D. JENSEN		
34	11-25-72	D. JENSEN		
35	11-25-72	D. JENSEN		
36	11-25-72	D. JENSEN		
37	11-25-72	D. JENSEN		
38	11-25-72	D. JENSEN		
39	11-25-72	D. JENSEN		
40	11-25-72	D. JENSEN		
41	11-25-72	D. JENSEN		
42	11-25-72	D. JENSEN		
43	11-25-72	D. JENSEN		
44	11-25-72	D. JENSEN		
45	11-25-72	D. JENSEN		
46	11-25-72	D. JENSEN		
47	11-25-72	D. JENSEN		
48	11-25-72	D. JENSEN		
49	11-25-72	D. JENSEN		
50	11-25-72	D. JENSEN		
51	11-25-72	D. JENSEN		
52	11-25-72	D. JENSEN		
53	11-25-72	D. JENSEN		
54	11-25-72	D. JENSEN		
55	11-25-72	D. JENSEN		
56	11-25-72	D. JENSEN		
57	11-25-72	D. JENSEN		
58	11-25-72	D. JENSEN		
59	11-25-72	D. JENSEN		
60	11-25-72	D. JENSEN		
61	11-25-72	D. JENSEN		
62	11-25-72	D. JENSEN		
63	11-25-72	D. JENSEN		
64	11-25-72	D. JENSEN		
65	11-25-72	D. JENSEN		
66	11-25-72	D. JENSEN		
67	11-25-72	D. JENSEN		
68	11-25-72	D. JENSEN		
69	11-25-72	D. JENSEN		
70	11-25-72	D. JENSEN		
71	11-25-72	D. JENSEN		
72	11-25-72	D. JENSEN		
73	11-25-72	D. JENSEN		
74	11-25-72	D. JENSEN		
75	11-25-72	D. JENSEN		
76	11-25-72	D. JENSEN		
77	11-25-72	D. JENSEN		
78	11-25-72	D. JENSEN		
79	11-25-72	D. JENSEN		
80	11-25-72	D. JENSEN		
81	11-25-72	D. JENSEN		
82	11-25-72	D. JENSEN		
83	11-25-72	D. JENSEN		
84	11-25-72	D. JENSEN		
85	11-25-72	D. JENSEN		
86	11-25-72	D. JENSEN		
87	11-25-72	D. JENSEN		
88	11-25-72	D. JENSEN		
89	11-25-72	D. JENSEN		
90	11-25-72	D. JENSEN		
91	11-25-72	D. JENSEN		
92	11-25-72	D. JENSEN		
93	11-25-72	D. JENSEN		
94	11-25-72	D. JENSEN		
95	11-25-72	D. JENSEN		
96	11-25-72	D. JENSEN		
97	11-25-72	D. JENSEN		
98	11-25-72	D. JENSEN		
99	11-25-72	D. JENSEN		
100	11-25-72	D. JENSEN		

digital EQUIPMENT CORPORATION
BOSTON MASS 02116
TITLE DISK ENG. CONTROL + INTERLOCK
SIZE CODE DIST. NUMBER REV.
D CS M7701-0-1

6938

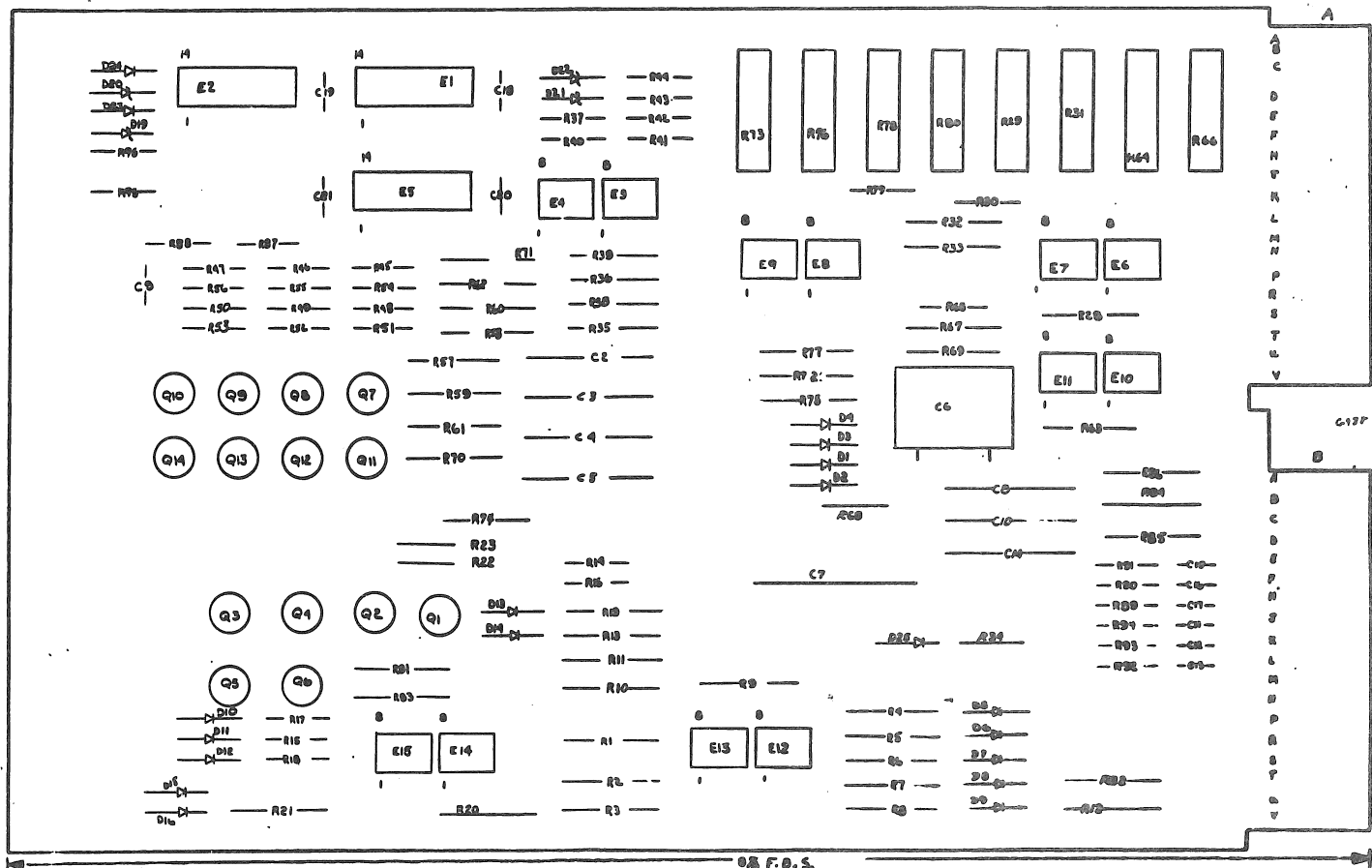


NOTE:
THIS TP WAS ADDED PER
ECO 00008 FOR AUTO
- MODULE TESTING ONLY
AND WILL NOT BE ON
ETCH REVS A THRU J

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 75461 PIN 8 = +5V, PIN 4 = GND

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
EQUIPMENT CORPORATION MILWAUKEE, WISCONSIN				
TITLE RK05 CONTROL + INTERLOCK				
SCALE M7701-0-1				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE
2	2	2	2	2

NOTES:



8	8	Q1,THRU Q4,Q11,THRUQ14	TRANSISTOR 2N5245	1509681	49	REF	REF	X-Y COORDINATE HOLE LOCATION	K-CO-G938-O-4	1	
6	6	Q5 THRU Q10	TRANSISTOR DEC 6534D	1503409-00	50	REF	REF	ASSY/DRILLING HOLE LAYOUT	E-AH-G938-O-5	2	
1	1	E1	I.C. DEC 7404	1909686	51	REF	REF	MODULE ECO HISTORY	B-MH-G938-O-6	3	
1	1	E2	I.C. DEC 7413	1909389	52	1	1	ETCHED CIRCUIT BOARD	5009388	4	
2	2	E3,E4	I.C. DEC 301	1910282	53	4	4	C2,C3,C4,C5	CAR .015 UF 50V 2% POLY CARB	1010646	5
1	1	E5	I.C. DEC 7400	1905575	54	4	1	C6	CAR 8200 PF 100V MICA	100C061	6
7	7	E7,E8,E11THRU E15	I.C. DEC 72741	1910298-06	55	1	1	E7	CAR .022 UF 100V 10% MYLAR	1002323	7
4	4		EYELET # G56-7	9006732	56	3	3	C8,C10,C14	CAR 15UF 20V 10% S. TANT	1004812	8
2	2		HANDLE, FLIP CHIP GREEN	9008337-01	57	12	12	C9,C11,C12,C13,C15 THRU C18	CAR .01UF 100V 20% DISC.	1001610-O-1	9
R/R	R/R		GRIPLET	1210244-0	58	7	7	D1 THRU D4,D23 THRU D25	DIODE D662	1100113	10
1	—	R22	RES 200K, 1/8W, 1%	1305336	59	10	10	D5 THRU D14	DIODE D664	1100114	11
1	—	R23	RES 137K, 1/8W, 1%	1305442	60	2	2	D15, D16	DIODE 1N758A 10V	1100125	12
2	—	R13,R19	RES 9.09K, 1/8W, 1%	1304855	61	4	4	Q19 THRU D22	DIODE 1N746A	1104860	13
1	—	R74	RES 2.94K, 1/8W, 1%	1301981	62	7	7	R1,R15,R17,R16,R19,R52,R33	RES. 15K 1/8 W 5%	1300496	14
3	3	E6,E9,E10	IC DEC 72741	1910298-01	63	—	—		RES. 15K 1/8 W 5%	1302765	15

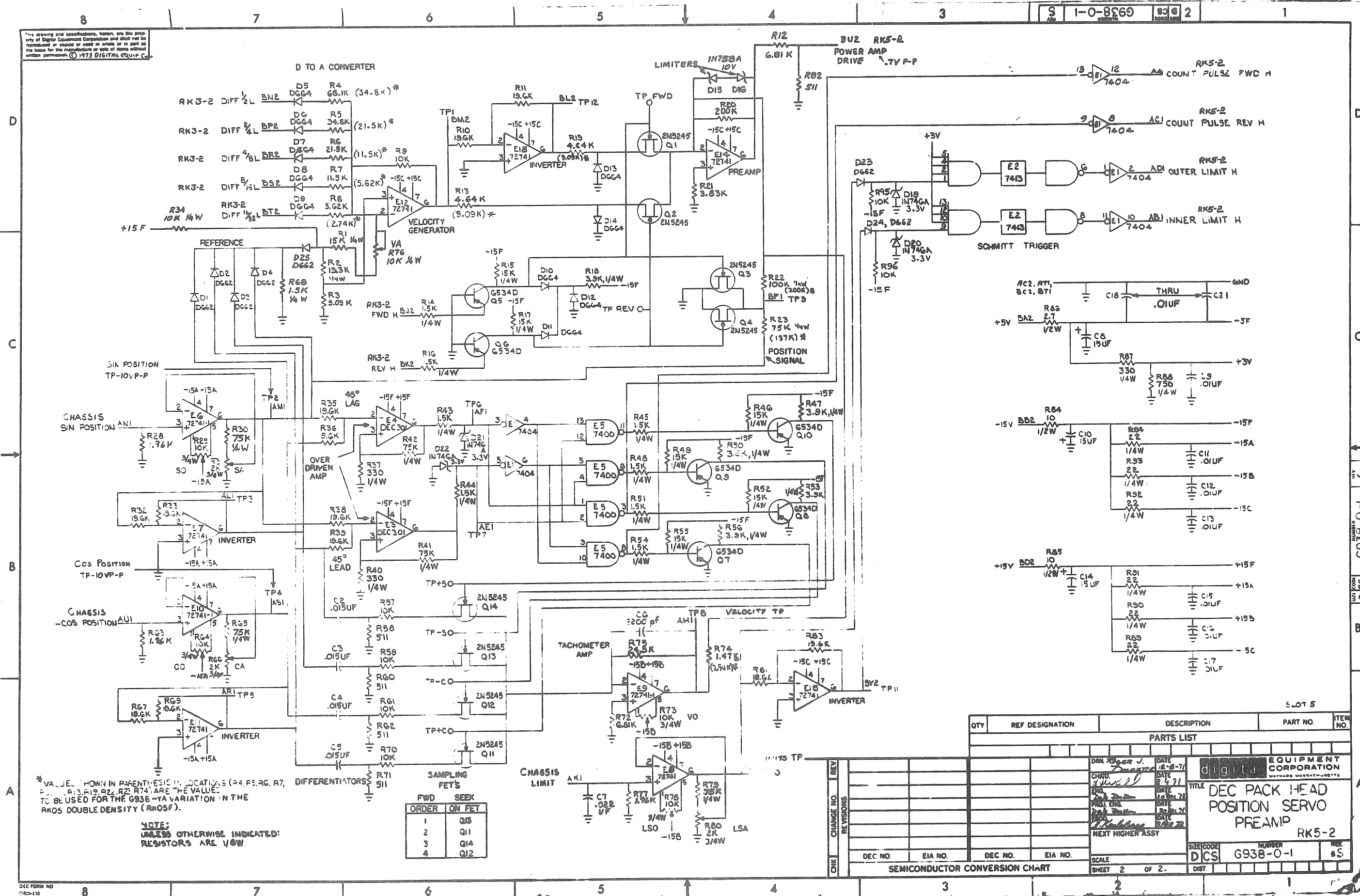
1	1	R2	RES. 13.3K 1/4 W 1% MF	1302563	15
1	1	R3	RES. 9.09K 1/8 W 1% MF	1304855	16
1	-	R4	RES. 34.8K 1/8 W 1% MF	1303156	17
-	1	R4	RES. 68.1K 1/8 W 1% MF	1305252	18
-	1	R5	RES. 34.8K 1/8 W 1% MF	1303156	19
1	-	R5	RES. 21.5K 1/8 W 1% MF	1303155	20
1	-	R6	RES. 11.5K 1/8 W 1% MF	1309415	21
-	1	R6	RES. 21.5K 1/8 W 1% MF	1303155	22
1	-	R7	RES. 5.62K 1/8 W 1% MF	1305128	23
-	1	R7	RES. 11.5K 1/8 W 1% MF	1309415	24
1	-	R8	RES. 2.74K 1/8 W 1%	1304868	25
-	1	R8	RES. 5.62K 1/8 W 1%	1305128	26
5	5	R9, R57, R59, R61, R70	RES. 10K 1/8 W 1% MF	1303312	27
12	12	R40, R1, R32, R33, R35, R36, R38, R39, R67, R69, R81, R83.	RES. 19.6K 1/8 W 1% MF	1309419	28
2	2	R12, R72	RES. 6.81K 1/8 W 1% MF	1304870	29
-	2	R13, R19	RES. 4.64K 1/8 W 1% MF	1304856	30
9	9	R14, R16, R43, R44, R45, R48, R53, R54, R68	RES. 1.5K 1/4 W 5%	1300391	31
5	5	R18, R47, R50, R53, R56	RES. 3.9K 1/4 W 5%	1300444	32
1	1	R20	RES. 200K 1/8 W 1% MF	1305336	33
1	1	R21	RES. 3.83K 1/8 W 1% MF	1309413	34
-	1	R22	RES. 100K 1/4 W 5%	1302466	35
5	6	R23, R30, R41, R42, R63, R79	RES. 75K 1/4 W 5%	1304841	36
5	5	R29, R69, R73, R76, R78	POT. 10K 3/4 W 20% 76PR	1309413-10	37
3	3	R31, R66, R80	POT. 2K 3/4 W 10% 76PR	1309413-08	38
9	9	R37, R40, R87	RES. 330 1/4 W 5%	1300295	39
5	5	R58, R60, R62, R71, R82	RES. 513 1/8 W 1% MF	1302911	40
1	1	R75	RES. 28.3K 1/8 W 1% MF	1309418	41
2	2	R84, R85	RES. 10 3/2 W 5%	1300168	42
1	1	R86	RES. 2.7 3/2 W 10%	1309444	43
6	6	R89, THRU R94	RES. 22 3/4 W 5%	1301969	44
1	1	R88	RES. 750 3/4 W 5%	1301401	45
3	3	R208, R63, R77	RES. 1.96K 3/8 W 1% MF	1304838	46
-	1	R74	RES. 1.47K 1/8 W 1% MF	1305108	47
3	3	R34, R95, R96	RES. 10K 3/4 W 5%	1300479	48

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

SN 386	3-3-77	S. RADOFF	
A. Newless	11-FEB-77		
117 6538-00011	S		
The Jackson 200 mi.			
J. RINALDIS			
29 March 29-40-76			
EP 6538-00010	R		
J. RINALDIS			
Donnelly 5/1/76			
H. H. Rumbauer	5-21-77		
6538-00009	-		
J. RINALDIS			
29 March 29-40-76			
REVISSED 6 FEBRUARY			
117 6538-00008	N		
CHANGE NO.			
CHER			

QTY		REF. DESIGNATION		DESCRIPTION		PART NO.		ITEM NO.	
PART USED 3RD OPTION MODEL		PARTS LIST							
ETCH BOARD REV.		K							
6534D		NONE		DRN. R. DOUCETTE		DATE 12-8-71		 TITLE DEC PACK HEAD POSITION SERVO PREAMP RK5-1	
2N5245				CHWB. DEVAL		DATE 12-9-71			
D62		IN645		ENG. D. JENSEN		DATE 2-30-71			
D664		IN3606		PROD. ENG. D. JENSEN		DATE 12-30-71			
I746A		SAME		PROD. A. KARLSBERG		DATE 12-3-72			
				NEXT HIGHER ASSY					
DEC NO.		EIA NO.		DEC NO.		EIA NO.		SIZE CODE NUMBER REV. D CS 6938-0-1 S	
SEMICONDUCTOR CONVERSION CHART									
SCALE				1 OF 2		DIST.			
SHEET				1		DIST.			

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission. © 1973 DIGITAL EQUIPMENT CORPORATION



* VALUES SHOWN IN PARENTHESES IN LOCATIONS (R4, R5, R6, R7, R13, R19, R22, R23, R74) ARE THE VALUES TO BE USED FOR THE G936-YA VARIATION IN THE RK05 DOUBLE DENSITY (RK05F).

NOTE: UNLESS OTHERWISE INDICATED: RESISTORS ARE 10W.

SAMPLING FET'S

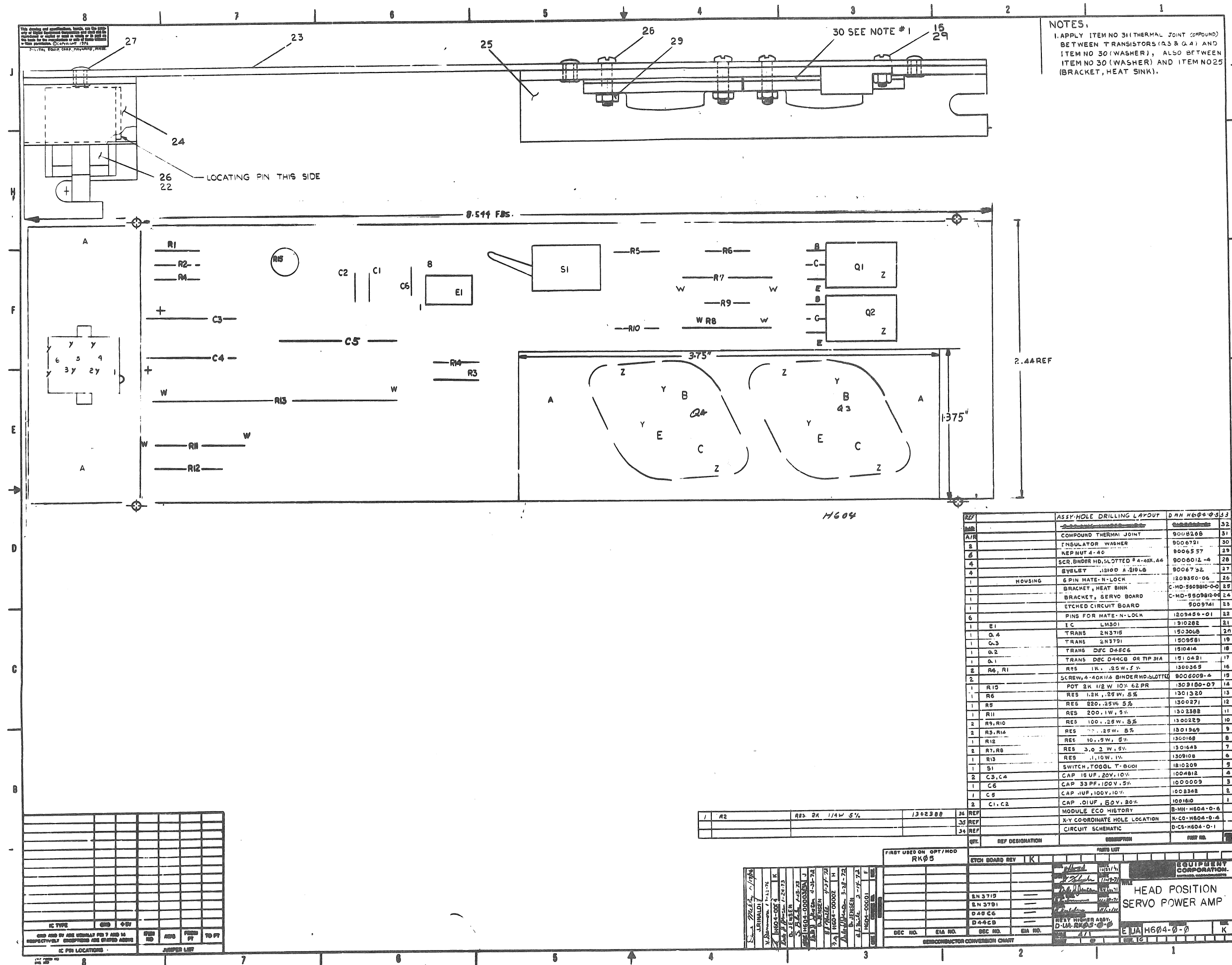
ORDER	ON FET
1	Q15
2	Q11
3	Q14
4	Q12

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DRN: J. J. J. CHKD: J. J. J. ENG: J. J. J. APP: J. J. J. DATE: 12-8-71 DATE: 12-8-71 DATE: 12-8-71 DATE: 12-8-71 DATE: 12-8-71 DATE: 12-8-71 DATE: 12-8-71 DATE: 12-8-71				
DEC NO. EIA NO. DEC NO. EIA NO. SCALE SHEET 2 OF 2.				

DEC PACK HEAD POSITION SERVO PREAMP
RK5-2

REV. 1
G938-0-1
S

DEC FORM 100.
DAD 110



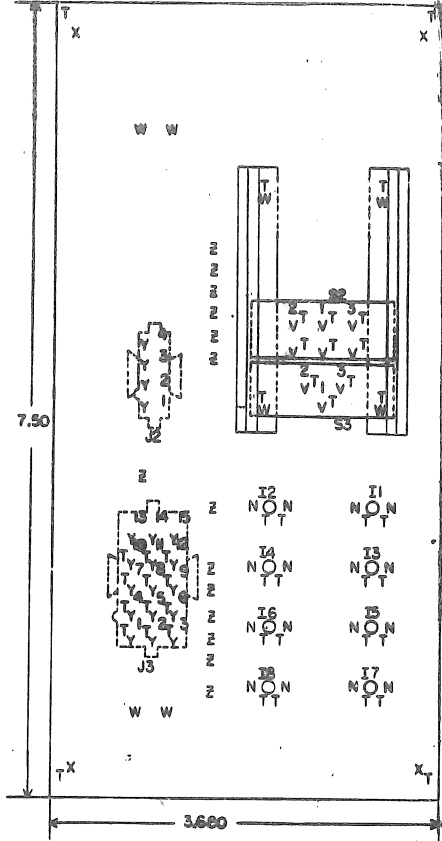
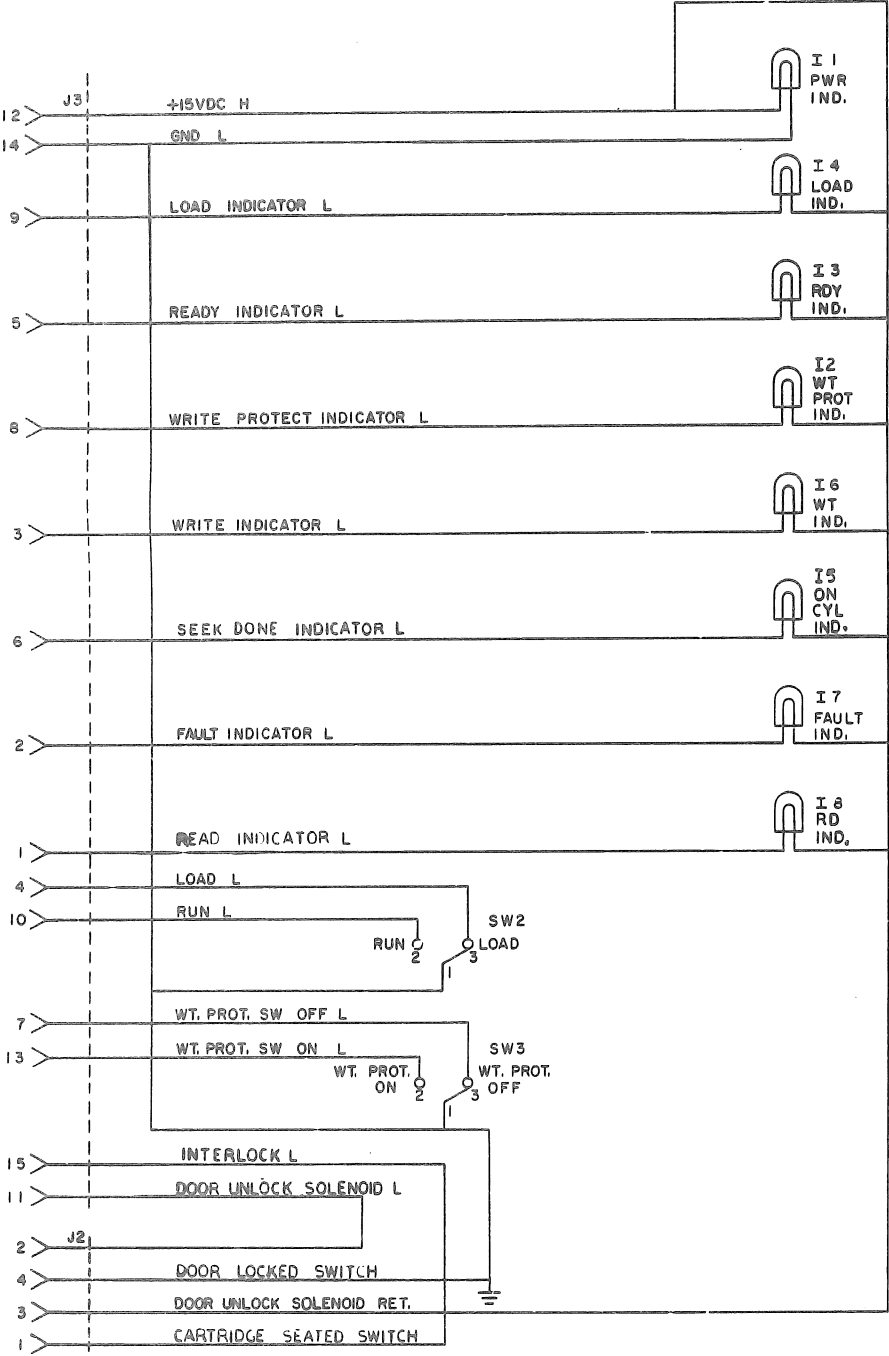
REF	ASSY HOLE DRILLING LAYOUT	DRAWING NO.
1	COMPOUND THERMAL JOINT	9008266
2	INSULATOR WASHER	9006791
3	NEP NUT 4-40	9006557
4	SCR BINDER HD, SLOTTED 4-40X.44	9006012-4
5	EYELET .1800 X .010	9006752
6	6 PIN MATE N-LOCK	1208360-06
7	BRACKET, HEAT SINK	C-MD-3503910-0-0
8	BRACKET, SERVO BOARD	C-MD-3503910-0-0
9	ETCHED CIRCUIT BOARD	5009741
10	PINS FOR MATE N-LOCK	1209456-01
11	IC LM301	1310282
12	TRANS 2N3715	1503068
13	TRANS 2N3791	1509581
14	TRANS DFC D48C6	1510414
15	TRANS DEC D44C8 OR TIP 31A	1510431
16	RES 1K, .25W, 5%	1300365
17	RES 220, .25W, 5%	1300371
18	RES 200, .1W, 5%	1302388
19	RES 100, .25W, 5%	1300229
20	RES 10, .5W, 5%	1301969
21	RES 3.0, .2W, 5%	1301643
22	RES .1, .10W, 1%	1309108
23	SWITCH, TOGGLE T-6001	1810209
24	CAP 16UF, 20V, 10%	1004812
25	CAP 33PF, 100V, 5%	1000009
26	CAP .01UF, 50V, 20%	1001810
27	MODULE ECO HISTORY	B-MH-H504-0-0
28	X-Y COORDINATE HOLE LOCATION	X-CO-H504-0-0
29	CIRCUIT SCHEMATIC	D-C5-H504-0-1

1	R2	RES 2K 1/4W 5%	1302388
2	R3	RES 100, .25W, 5%	1300229
3	R4	RES 10, .5W, 5%	1301969
4	R5	RES 3.0, .2W, 5%	1301643
5	R6	RES .1, .10W, 1%	1309108
6	R7	RES 220, .25W, 5%	1300371
7	R8	RES 200, .1W, 5%	1302388
8	R9	RES 100, .25W, 5%	1300229
9	R10	RES 10, .5W, 5%	1301969
10	R11	RES 3.0, .2W, 5%	1301643
11	R12	RES .1, .10W, 1%	1309108
12	R13	RES 220, .25W, 5%	1300371
13	R14	RES 200, .1W, 5%	1302388
14	R15	RES 100, .25W, 5%	1300229

DEC NO.	QIA NO.	DEC NO.	QIA NO.
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30

IC TYPE	QIA NO.	IC PIN LOCATIONS
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30

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



REVISIONS	
CHK	CHK NO. (REV.
00001 B	
D. JENSEN	
<i>D. Jensen</i>	
00001 C	
<i>D. Jensen</i>	
D. JENSEN	
<i>D. Jensen</i>	
D. JENSEN	
<i>D. Jensen</i>	
000004 E	
<i>D. Jensen</i>	
J. RINALDIS	

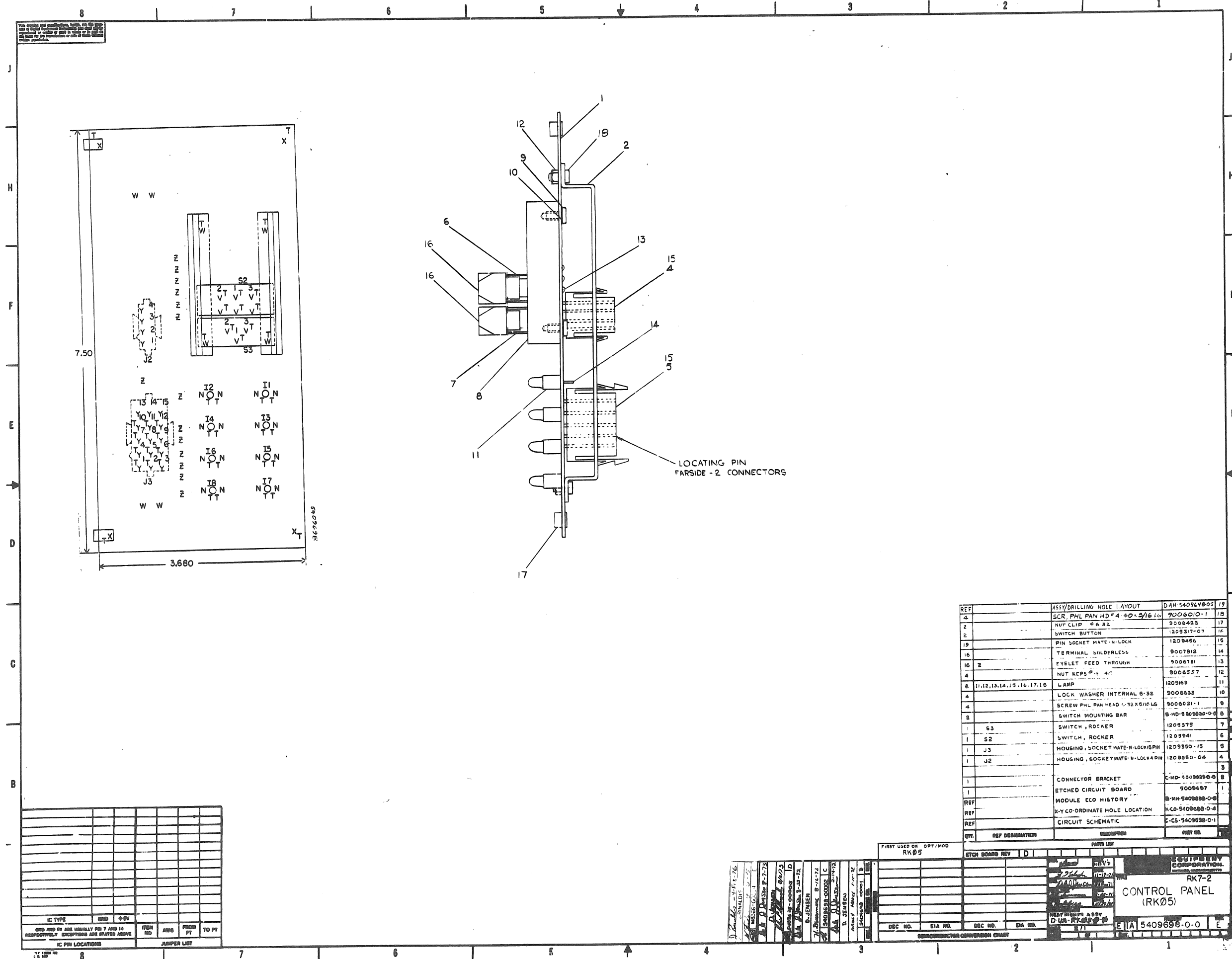
DEC FORM NO. 1

DRN. S. COOPER	DATE 11-20-71
CHK'D 11-21-71	DATE 11-23-71
ENG Dale Jensen	DATE 11-24-71
PROD.	DATE

[illegible]

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

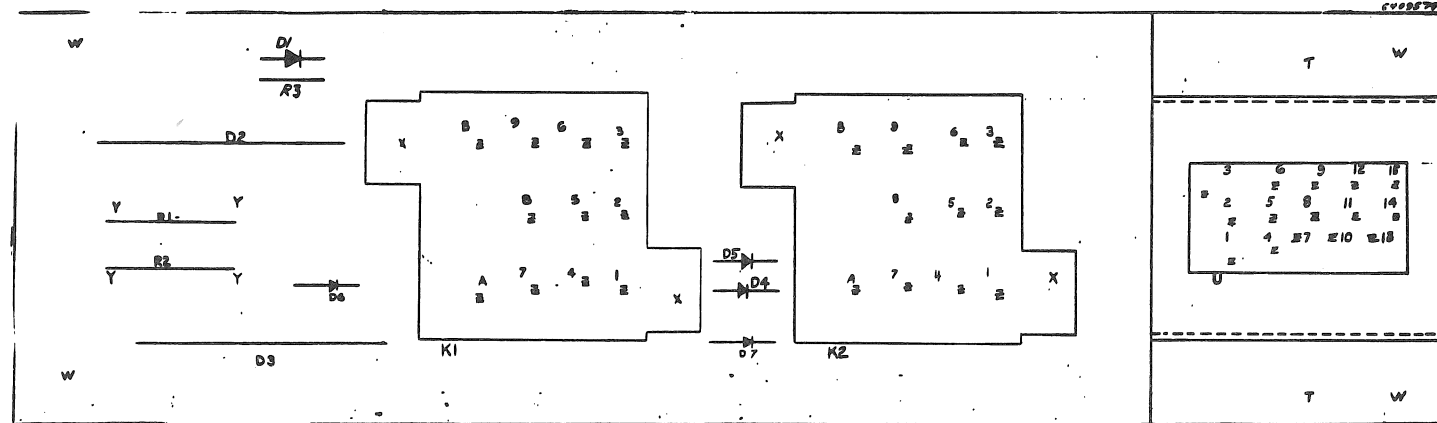
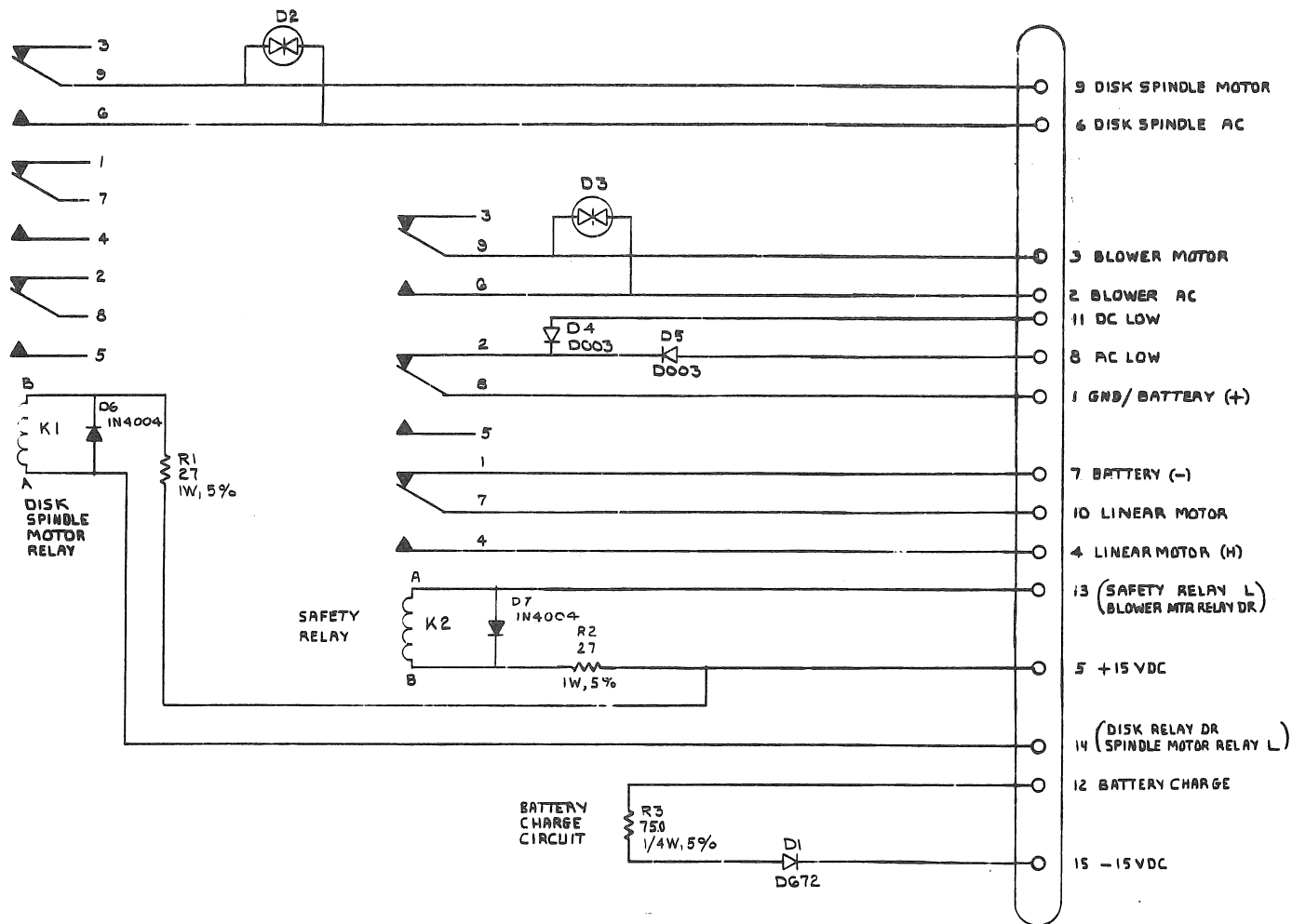
RK05 CONTROL PANEL				
SIZE C	CODE CS	NUMBER 5409698-0-1	REV. E	
PRINTED CIRCUIT REV.			D	



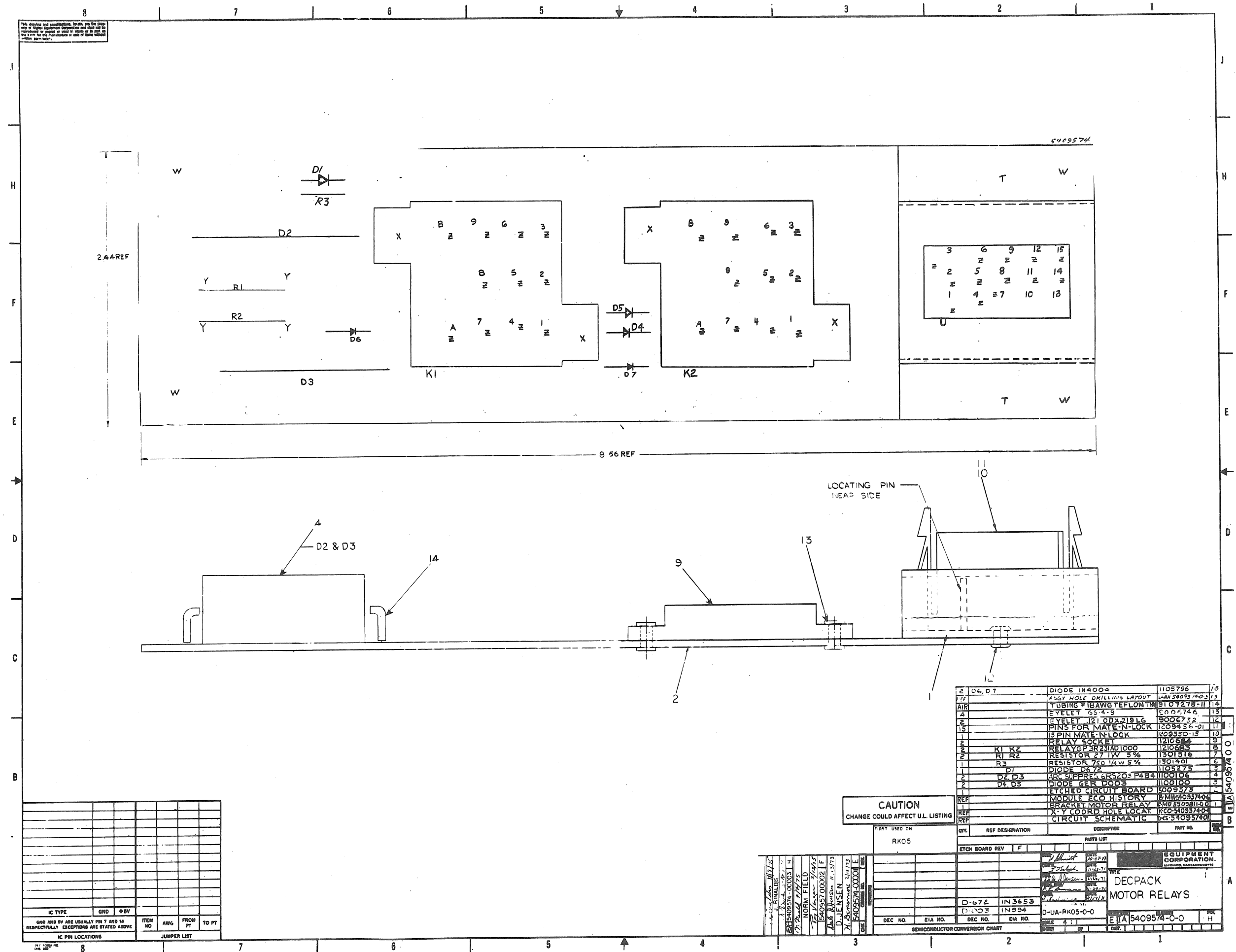
This drawing and construction herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part or by name for the manufacture or sale of items without written permission.

NOTE:

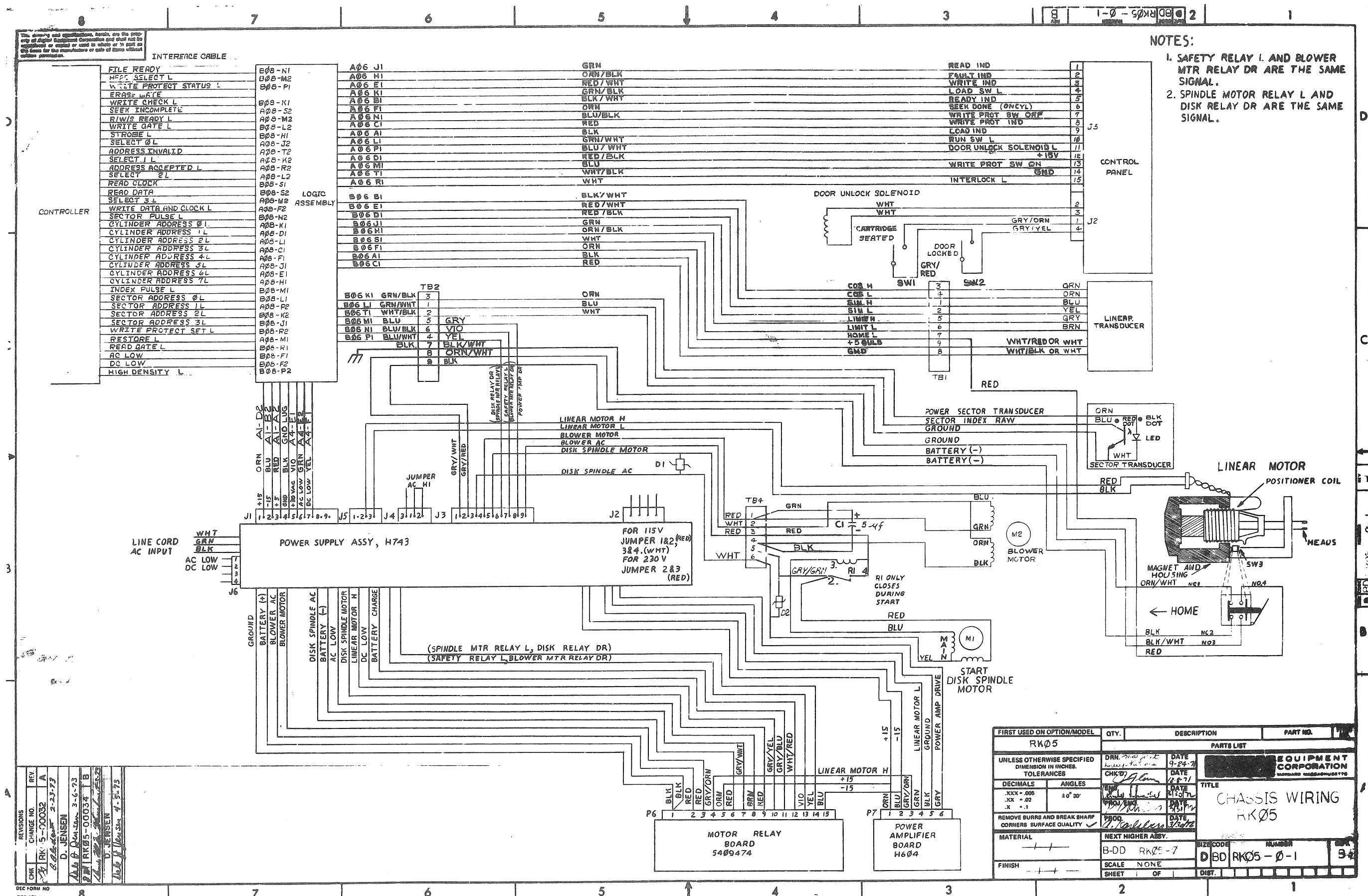
1. RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITIONS.
2. SAFETY RELAY L AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
3. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.
4. THIS MODULE MUST BE UL APPROVED



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV F				
D003	IN994			
D672	IN3653			
REVISIONS				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
SCALE				
SHEET 1 OF 1				
DIGITAL EQUIPMENT CORPORATION				
DEC PACK MOTOR RELAYS				
SIZE CODE DCS 5409574-0-1				
REV. H				



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.
24	RK 5-00032	A
B.B. de la 2-23-73		
D. JENSEN		
Note to Jensen 3-6-73		
824 RK05-00034 B		
Note to Jensen 4-5-73		
D. JENSEN		
Note to Jensen 4-5-73		

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.
RK05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST		
DECIMALS		EQUIPMENT CORPORATION		
ANGLES		CHASSIS WIRING		
.XXX = .005		RK05		
.XX = .02				
.X = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL		SIZE CODE		
NEXT HIGHER ASSY.		NUMBER		
B-DD RK05-7		D BD RK05-0-1		
FINISH		SHEET		
		OF		
		DIST.		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			LEGEND		QUANTITY / VARIATION												
ACCESSORY LIST			D DOCUMENT DN DOCUMENT CHANGE NOTICE PA PAPER TAPE ASCII PB PAPER TAPE BINARY PM PAPER TAPE READ-IN-MODE														
MADE BY DATE G. Schneider		CHECKED <i>[Signature]</i> DATE 8/17/72		SECTION													
ENG <i>[Signature]</i> DATE 8/17/72		PROD <i>[Signature]</i> DATE 8/17/72		ISSUED SECT.													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
1	RK05-0	Customer Print Set (B-DD-RK05-0 Sheet one only)				1	1										
2	DEC-RK05-TPB-1	ILLUSTRATED PARTS BREAK DOWN FOR RK05				1	1										
3	DEC-00-RK05JF-DA	Maintenance Manual				1	1										
*** 4	BC 11A-08	Unibus Cable 8 feet				1	1										
5	2200007	Head Cleaning Kit				1	1										
6	3010350-00	Disk Cartridge 12 Sector				1	0										
7	3010350-02	Disk Cartridge 16 Sector				0	1										
8*	A-AD-7009276-0-0	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																	
*** NOTE: MAXIMUM TOTAL UNIBUS CABLE LENGTH = 50 FEET																	
TITLE DECpack Assembly		ASSY. NO.		SIZE A	CODE AL	NUMBER RK05-0-17				REV. F	ECO NO RK05J 00006						
SHEET 1 OF 1		DIST.															

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

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

SEQUENCE

TB-DD-H743-8 SHEET #1 ONLY

D-CS-H743-1
E-1A-5409503-0-0
D-CS-5409503-0-1
E-1A-5409484-0-0
D-CS-5409484-0-1

SEQUENCE

MFG PRINTS

POWER SUPPLY
POWER SUPPLY (PL)
DRAWING DIRECTORY
PACKAGING INSTRUCTION

E-UA-H743-0-0
 A-PL-H743-0-0
 B-DD-H743-0
 A-PI-3700130-0-0

UNIT VARIATIONS

PRINT SET TYPE

VARIATION

TITL

H743-AA

POWER SUPPLY 115V

H743-AB

POWER SUPPLY 230V

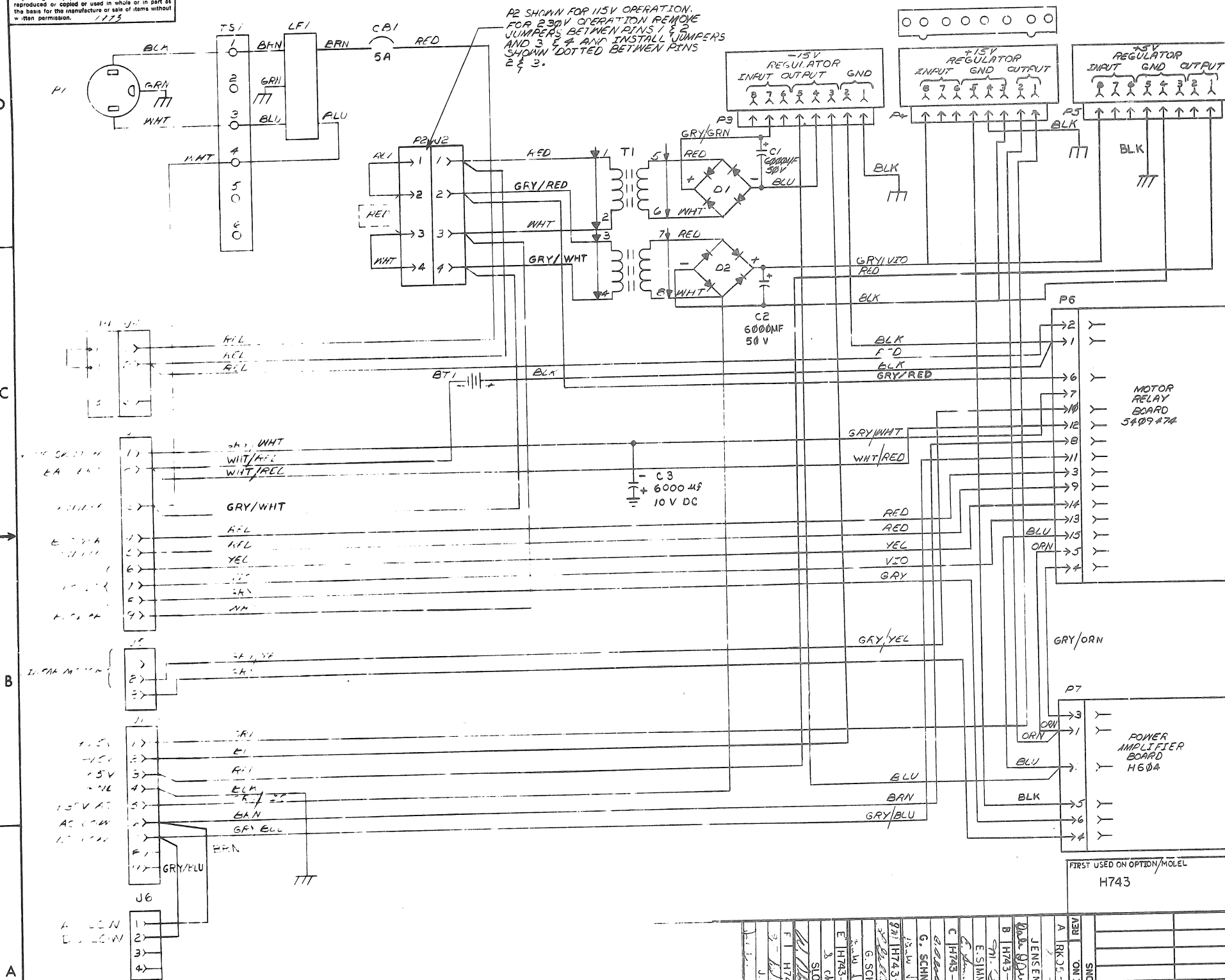
1	2
---	---

1	2
---	---

REVISIONS		CHG. NO.	REV
DATE	DESCRIPTION		
8/7/72	W743-1		A
8/7/72	H743-1		B
8/7/72	H743-2		C
8/7/72	H743-3		D
8/7/72	H743-4		E
8/7/72	H743-5		F
8/7/72	H743-6		G
8/7/72	H743-7		H
8/7/72	H743-8		I
8/7/72	H743-9		J
8/7/72	H743-10		K
8/7/72	H743-11		L
8/7/72	H743-12		M
8/7/72	H743-13		N
8/7/72	H743-14		O
8/7/72	H743-15		P
8/7/72	H743-16		Q
8/7/72	H743-17		R
8/7/72	H743-18		S
8/7/72	H743-19		T
8/7/72	H743-20		U
8/7/72	H743-21		V
8/7/72	H743-22		W
8/7/72	H743-23		X
8/7/72	H743-24		Y
8/7/72	H743-25		Z

USED ON OPTION/MODEL		DRN.	DATE	TITLE					
		CHK'D.	DATE						
		PROJ ENG.	DATE	SUPPLY (H743)					
		PROD.	DATE						
		FIELD SERV.	DATE						
		SHEET 1 OF		SIZE	CODE	NUMBER			REV
				B	DD	H743-1			
				DIST					

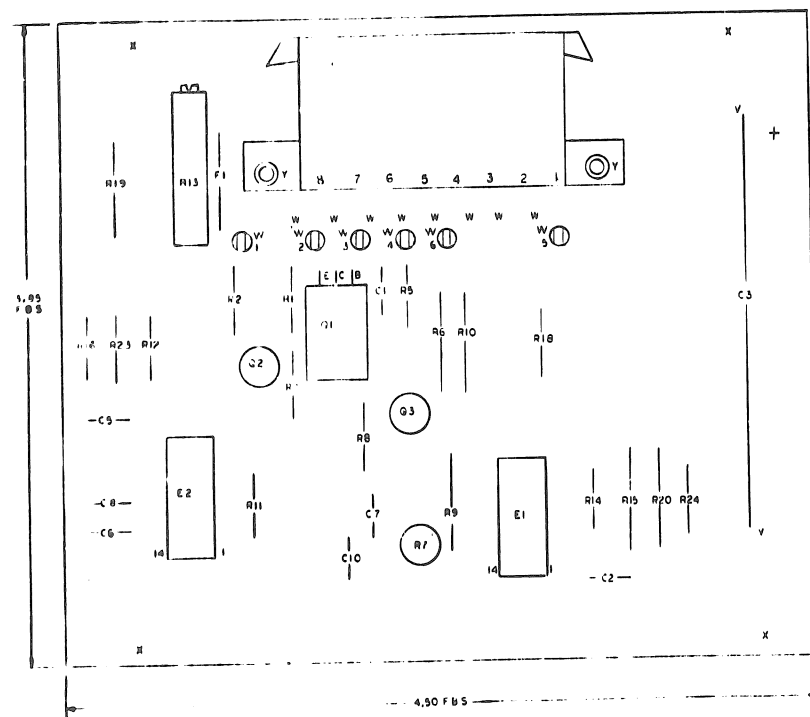
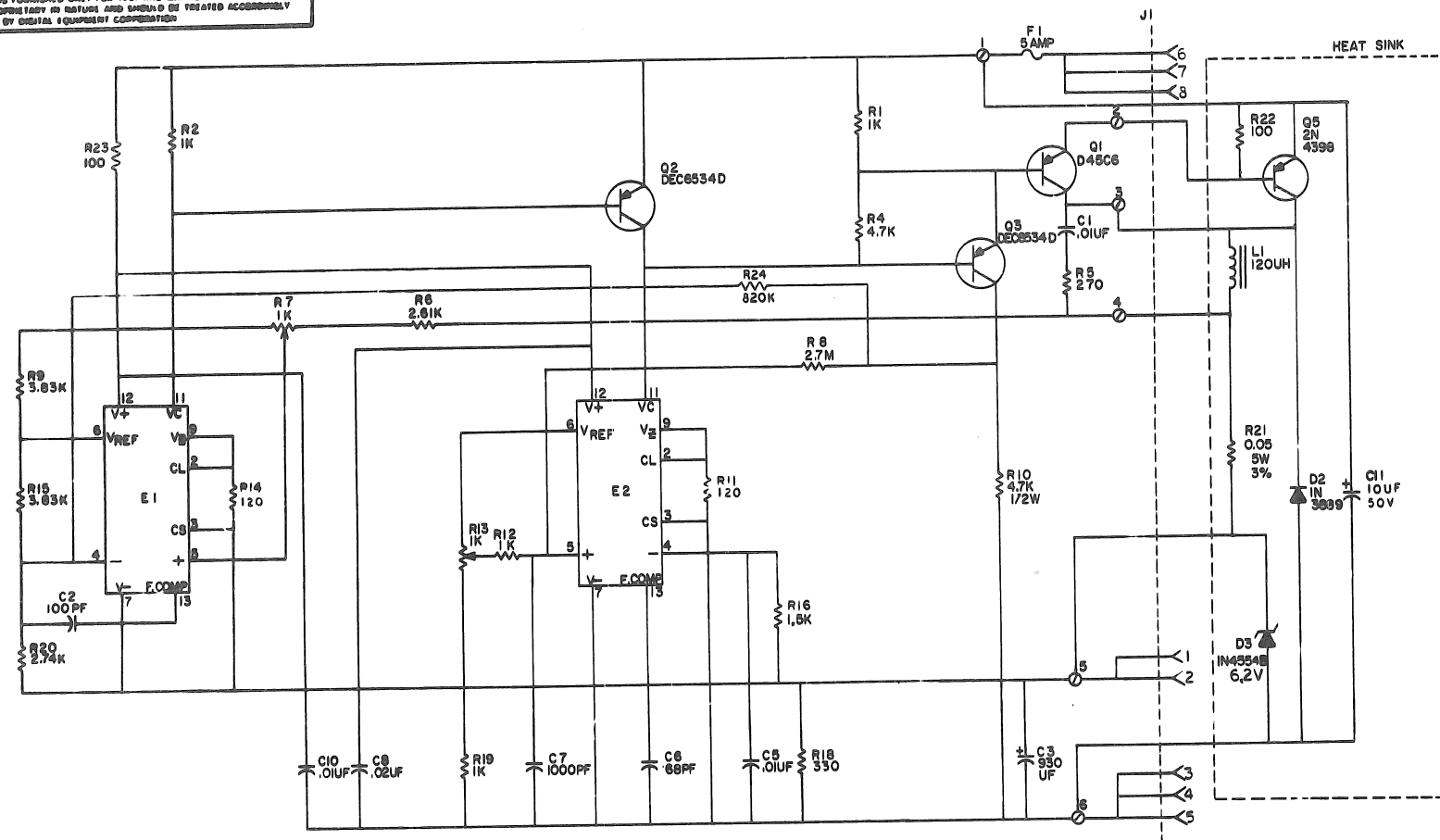
This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



1	P1	POWER CORD 230V	1700016-09	22
1	C3	CAP 6000UF 10VDC	1010704	21
1	P4	JUMPER AC-WI	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, 8 PIN	1209340-01	17
1	TS1	TERMINAL STRIP 16POS	9006906	16
1	T1	TRANSFORMER	1610511	15
1	BT1	BATTERY	1210641	14
1	P7	CONN, MATE-N-LOCK, 6 PIN	1209351-06	13
1	P6	CONN, MATE-N-LOCK, 15 PIN	1209351-15	12
1		+5V REGULATOR	E-1A-5409503-0-0	11
2		±15V REGULATOR	E-1A-5409484-0-0	10
1	BT1	BATTERY	1210641	9
1	P1	POWER CORD 115V	1700006-09	8
1	J4, J5	CONN, MATE-N-LOCK, 3 PIN	1209350-03	7
2	J2, J6	CONN, MATE-N-LOCK, 4 PIN	1209350-04	6
2	J1, J3	CONN, MATE-N-LOCK, 9 PIN	1209350-09	5
1	LF1	LINE FILTER	1212877-01	4
2	C1, C2	CAP 6000UF, 50V	1010510	3
2	D1, D2	RECTIFIER (MDA980-3)	1110051	2
1	CBI	CIRCUIT BREAKER 5A	1209283	1

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRN				
CHK'D				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				
11-5-71				
DATE				

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



A/R		WIRE #18AWG STRD (WHT.)	9107360-99	70
A/R		WIRE #18AWG STRD (GRY.)	9107360-88	69
A/R		WIRE #18AWG STRD (VIO.)	9107360-77	68
A/R		WIRE #18AWG STRD (BLU.)	9107360-66	67
A/R		WIRE #18AWG STRD (GRN.)	9107360-55	66
A/R		WIRE #18AWG STRD (YEL.)	9107360-44	65
1		3/16 FLAT WASHER	9006666	64
2		THERMAL INSULATOR	9009678	63
1		NUT, HEX 1/4 X 28	9008063	62
2		WASHER, INT TOOTH LOCK #2	9006631	61
2		SOLDER LUG	9006764	60
1		1/4 FLAT WASHER	9006676	59
2		SCR BINDING HD 2-56 X 3/16 SST	9006000-4	58
2		SCR PHIL PAN HD 6-32 X 5/8 SST	9006025-1	57
1		SCR PHIL TRUSS HD 10-32 X 1 SST	9006077-3	56
1		WASHER INT TOOTH LOCK #10	9006635	55
2		BUSHING	9008441	54
1		SOLDER LUG	9008150	53
1		NUT, HEX #10-32	9008564	52
4		SCR PHL PAN HD #6-20 X 3/8 ST	9008407	51
1		THERMAL INSULATOR	9008419	50
2		THERMAL INSULATOR	9008424	49
2		TIE WRAPS	9007031	48
1		TRANSISTOR SOCKET	1210130	47
1	C11	CAP 10UF 50V	1000070	46
2	R22, R23	RES 100 1/4W 5%	1300229	45
1		HEAT SINK	D-1A-5409503-0-0	44
1	R21	RES 0.05 5W 3%	1310507	43
1	L1	CHOKE 120UH	1610573	42
1	D2	DIODE 1N3289	1110491	41
1	Q5	TRANSISTOR 2N4398	1505870	40
6		WASHER INT TOOTH #6	9006633	39
2	R11, R14	RES 120 1/4W 5%	1300247	38
1	R16	RES 1.5K 1/4W 5%	1300391	37
2		EYELETS	9006732	36
6		SPLIT LUGS	9006735	35
2		WASHER NYLON	9006707	34
2	E1, E2	IC 723C D.P. REGULATOR	1910415	33
1	Q1	TRANSISTOR D45C6 G.E.	1610414	32
A/R		THERMAL COMPOUND	9008268	31
2	Q2, Q3	TRANSISTOR DEC 6534D	1503409-00	30
1	R8	RES 2.7M 1/4W 5%	1309680	29
2	R9, R15	RES 3.83K 1/8W 1%	1309413	28
1	R7	RES 1K 1/2W 20%	1309150-3	27
1	R13	RES 1K 10W 76PA	1309143-07	26
1	R20	RES 2.74K 1/8W 1% MF	1304868	25
1	R6	RES 2.61K 1/8W 1% MF	1303303	24
1	R19	RES 1K 1/8W 1% MF	1303114	23
				22
1	R10	RES 4.7K 1/2W 5%	1300445	21
1	R5	RES 270 1/4W 5%	1301972	20
1	R4	RES 4.7K 1/4W 5%	1300447	19
3	R1, R2, R12	RES 1K 1/4W 5%	1300365	18
1	R18	RES 330 1/4W 5%	1300235	17
1	R24	RES 820K 1/4W 10%	1303187	16
8		CONNECTOR PIN	1209456	15
1	J1	CONN. 8 PIN AMP	1209340-00	14
1	F1	FUSE 5AMPS	1209070	13
1	D3	DIODE 1N4554B 6.2V	1112122	12
1	C8	CAP. 0.02UF 100V -0 +20% DISC	1000004	11
1	C3	CAP 930UF 30V -10 +75% ELEC.	1010509	10
3	C1, C5, C10	CAP. 0.01UF 100V 20% DISC	1001610	9
1	C7	CAP 1000PF 100V 5% MICA	1000042	8
1	C2	CAP 100PF 100V 5% DM	1000016	7
1	C6	CAP 68PF 100V 5% DM	1000014	6
1		ETCH CIRCUIT BOARD	5009502	5
		MODULE ECO HISTORY	B-MH-5409503-0-6	4
		ASSY/DRILLING HOLE LAYOUT	D-AH-5409503-0-5	3
		X-Y COORDINATE HOLE LOCATION	K-CO-5409503-0-4	2
		+5V REGULATOR	D-1A-5409503-0-0	1
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

TRANSISTOR & DIODE CONVERSION CHART			
DEC	BM	DEC	BM
2N4398	2N4398	2N4398	2N4398
1N3289	1N3289	1N3289	1N3289
723C	723C	723C	723C
EQUIPMENT CORPORATION			
PRINTED CIRCUIT BOARD			

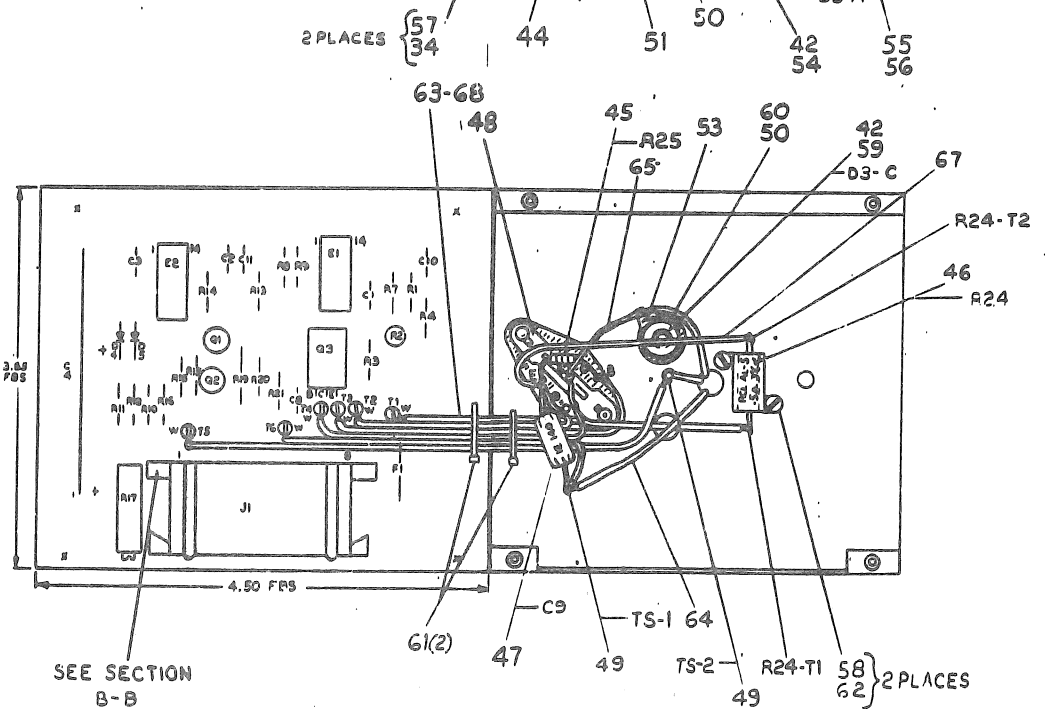
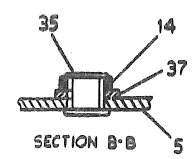
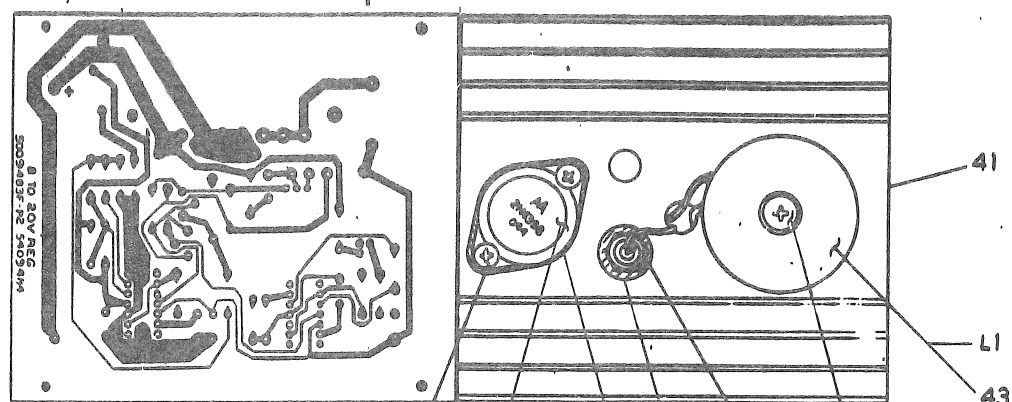
REVISIONS	DATE	BY	APPROVED
1	6-2-71	S. Corper	
2	6-7-71	W. H. Moore	
3	7-1-71	W. H. Moore	
4	7-1-71	W. H. Moore	
5	7-1-71	W. H. Moore	
6	7-1-71	W. H. Moore	
7	7-1-71	W. H. Moore	
8	7-1-71	W. H. Moore	
9	7-1-71	W. H. Moore	
10	7-1-71	W. H. Moore	
11	7-1-71	W. H. Moore	
12	7-1-71	W. H. Moore	
13	7-1-71	W. H. Moore	
14	7-1-71	W. H. Moore	
15	7-1-71	W. H. Moore	
16	7-1-71	W. H. Moore	
17	7-1-71	W. H. Moore	
18	7-1-71	W. H. Moore	
19	7-1-71	W. H. Moore	
20	7-1-71	W. H. Moore	
21	7-1-71	W. H. Moore	
22	7-1-71	W. H. Moore	
23	7-1-71	W. H. Moore	
24	7-1-71	W. H. Moore	
25	7-1-71	W. H. Moore	
26	7-1-71	W. H. Moore	
27	7-1-71	W. H. Moore	
28	7-1-71	W. H. Moore	
29	7-1-71	W. H. Moore	
30	7-1-71	W. H. Moore	
31	7-1-71	W. H. Moore	
32	7-1-71	W. H. Moore	
33	7-1-71	W. H. Moore	
34	7-1-71	W. H. Moore	
35	7-1-71	W. H. Moore	
36	7-1-71	W. H. Moore	
37	7-1-71	W. H. Moore	
38	7-1-71	W. H. Moore	
39	7-1-71	W. H. Moore	
40	7-1-71	W. H. Moore	
41	7-1-71	W. H. Moore	
42	7-1-71	W. H. Moore	
43	7-1-71	W. H. Moore	
44	7-1-71	W. H. Moore	
45	7-1-71	W. H. Moore	
46	7-1-71	W. H. Moore	
47	7-1-71	W. H. Moore	
48	7-1-71	W. H. Moore	
49	7-1-71	W. H. Moore	
50	7-1-71	W. H. Moore	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part or the basis for the manufacture or sale of items without written permission. 1975

WIRE TABLE					
ITEM NO.	DESCRIPTION	COLOR	LENGTH INCHES ± 1/8	STRIP LENGTH X	STRIP LENGTH Y
43	—	BLK	2 1/8	—	1/2
43	—	BLK	2 1/8	—	1/2
63	18	BLU	2 1/4	1/2	1/2
67	18	GRY	3 5/8	1/2	1/2
64	18	GRN	4 1/2	1/2	1/2
68	18	WHY	5 7/8	1/2	1/2
67	18	GRY	4 7/8	1/2	1/2
66	18	VIO	5 1/8	1/2	1/2
65	18	BLU	5 1/8	1/2	1/2
64	18	GRN	5 1/2	1/2	1/2
63	18	YEL	6 7/8	1/2	1/2

EXTERNAL COMPONENTS					
ITEM NO.	LENGTH	DESCRIPTION	POL	CONNECTIONS	POL
45	SEE NOTE 2	RES 100Ω 1/4W 5%	—	Q4-E	Q4-B
47	SEE NOTE 3	CAP 100UF 50V 10%	+	Q4-E	TS-1

SEE NOTE 5



SEE SECTION B-B

NOTES:

1. R17 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R2 IS USED FOR OUTPUT POWER ADJUSTMENT.
2. CUT LEADS OF RES. (R25) SO THERE IS 3/8" OF A LEAD LEFT AT BOTH ENDS.
3. CUT LEADS OF CAP. (C9) SO THERE IS 1/2" OF A LEAD LEFT AT BOTH ENDS.
4. THERMAL COMPOUND (ITEM #39) IS TO BE APPLIED TO BOTH SIDES OF ALL THERMAL INSULATORS (ITEM #50+51) BOTH SIDES OF EACH INSULATOR SHOULD BE COMPLETELY COVERED, LEAVING NO VOIDS WHEN INSTALLED. CARE MUST BE EXERCISED SO THAT NO EXTRA COMPOUND INTERFERES WITH ANY ELECTRICAL CONNECTION MADE TO ANY DEVICE.
5. WHEN ASSEMBLING THE WIRES FROM THE CIRCUIT BOARD TO THE HEAT SINK, PLACE THE MODULE AGAINST THE HEAT SINK. WIRE AS SHOWN BY THE WIRE LIST AND MAKE A SERVICE LOOP AT THE CONNECTIONS ON THE HEAT SINK TO TAKE UP ANY EXCESS WIRE THAT MIGHT BE AVAILABLE.

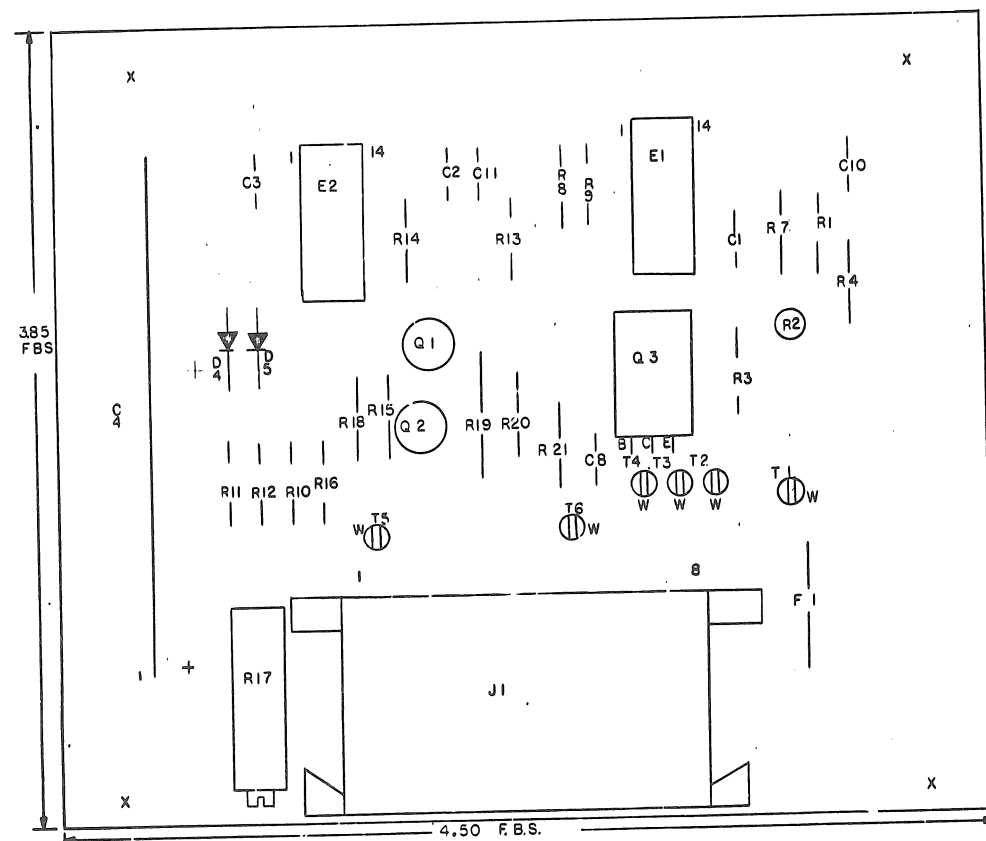
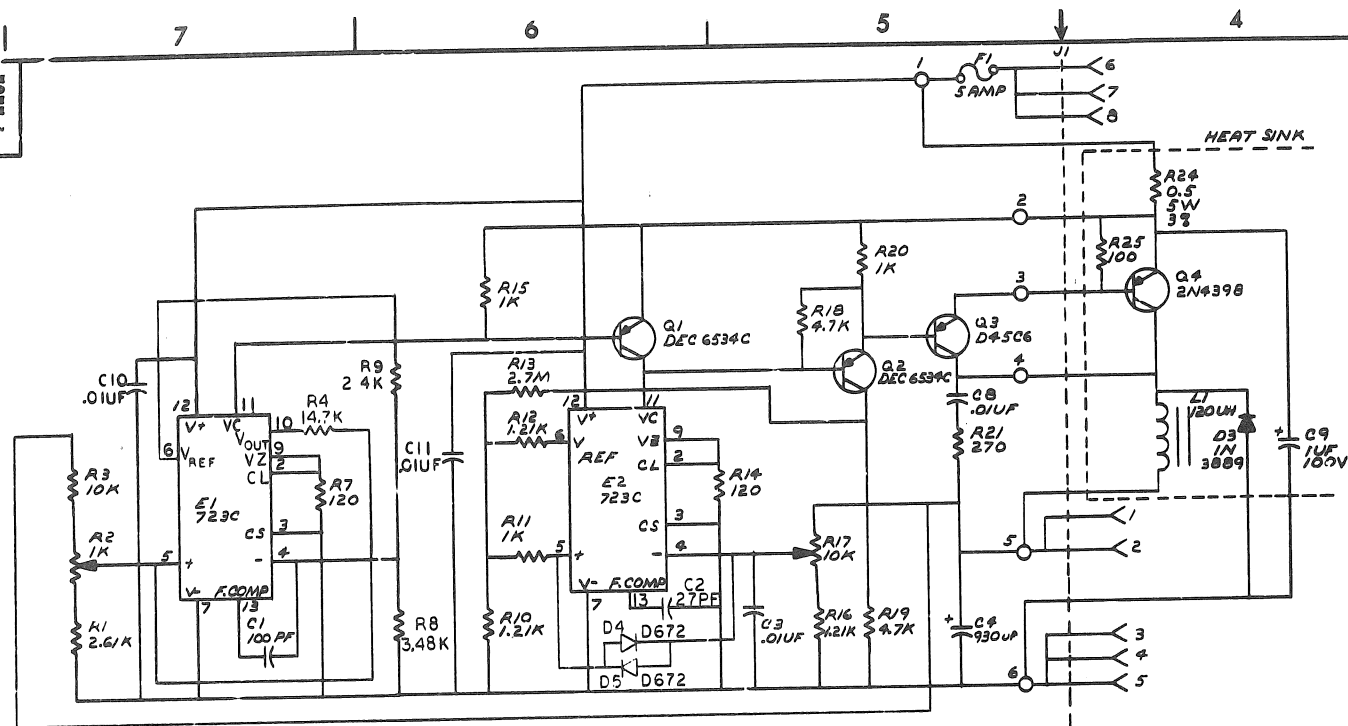
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DRN. T. QUILLIN		DATE 7-SEP-71	EQUIPMENT CORPORATION	
CHKD. J. FLEMING		DATE 8-SEP-71	MAYNARD, MASSACHUSETTS	
ENG. P. SVENDSEN		DATE 8-SEP-71	TITLE	
PROJ. ENG. P. SVENDSEN		DATE 8-SEP-71	8 TO 27V REGULATOR	
PROD. P. FAZI		DATE 9-OCT-71	SIZE/CODE NUMBER	
NEXT HIGHER ASSY D-UA-H737-0-0		DIA 5409484-0-0		REV. K
SCALE NONE		DIA 5409484-0-0		REV. K
SHEET 1 OF 1		DIA 5409484-0-0		REV. K

DRN. J. RINALDIS	DATE 7-SEP-71
CHKD. J. FLEMING	DATE 8-SEP-71
ENG. P. SVENDSEN	DATE 8-SEP-71
PROJ. ENG. P. SVENDSEN	DATE 8-SEP-71
PROD. P. FAZI	DATE 9-OCT-71

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

DEC FORM NO. 000-110

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	REV.
4		WASHER, LOCK SPRING	9007801	69
A/A		WIRE #18 AWG STD (WHT)	9107360-99	3
A/A		WIRE #18 AWG STD (GRY)	9107360-88	67
A/A		WIRE #18 AWG STD (VIO)	9107360-77	66
A/A		WIRE #18 AWG STD (BLU)	9107360-66	65
A/A		WIRE #18 AWG STD (GRN)	9107360-55	64
A/A		WIRE #18 AWG STD (YEL)	9107360-44	63
2		#2 INTERNAL LOCK WASHER	9006631	62
2		TIE WRAPS	9007031	61
1		WASHER FLAT 3/16	9006666	60
1		#10-32 HEX NUT	9006564	59
2		2/56 X 3/16" SCREW	9006000-4	58
2		6T 32 X 3/8" PAN HD SCREW	9006025-1	57
1		10-32 X 1" TRUSS HD SCREW	9006077-3	56
1		#10 INTERNAL LOCK WASHER	9006635	55
1		BUSHING (DIODE)	9008441	54
1		SOLDER LUG	9008150	53
4		#6-20 X 3/8 SELF TAPPING SCREW	9008407-01	52
1		THERMAL INSULATOR	9008417	51
2		THERMAL INSULATOR	9008424	50
2	TS-1, TS-2	STAND OFF (STUD TYPE)	9009060	49
1		TRANSISTOR SOCKET	1210130	48
1	C9	CAP 1UF 100V	1005507	47
1	R24	RES. 0.5 3W 5%	1310508	46
1	R25	RES. 100 5W 1/4 W	1300229	45
1	Q4	TRANSISTOR 2N4398	1505870	44
1	L1	120UH CHOK	1610573	43
1	D3	DIODE 1N3889	1110491	42
1		HEAT SINK	D-2A-3309543-0-0	41
6		SPLIT LUGS	9006735	40
A/A		THERMAL COMPOUND	9008268	39
1	F1	FUSE 5 AMPS	1209070	38
2		WASHER NYLON	9006707	37
8		CONNECTOR PINS	1209456	36
2		EYELET	9006732	35
2		WASHER INT TOOTH #6	9006633	34
2	E1, 2	DIP REGULATOR 723C	1910415	33
1	Q3	TRANSISTOR D45C6	1510414	32
2	Q1, 2	TRANSISTOR DEC 6534C	1503409-02	31
1	R21	RES. 270 1/4 W 5%	1301972	29
1	R19	RES. 4.7K 1/2 W 5%	1300445	28
1	R18	RES. 4.7K 1/4 W 5%	1300447	27
1	R17	RES. VARIABLE 10K 3/4 W 10%	1309143-10	26
1	R13	RES. 2.7M 1/4 W 5%	1309680	25
3	R11, 15, 20	RES 1K 1/4 W 5%	1300365	24
3	R10, 12, 16	RES 1.2K 1/8 W 1% MF	1302871	23
1	R8	RES 3.48K 1/8 W 1% MF	1305114	22
2	R7, 14	RES 120 1/4 W 5%	1300247	21
1	R9	RES 2.4K 1/4 W 5%	1303177	19
1	R4	RES 14.7K 1/8 W 1% MF	1302941	18
1	R3	RES 10K 1/8 W 1% MF	1303312	17
1	R2	RES VARIABLE 1K 1/2 W	1309150-03	16
1	R1	RES 2.61K 1/8 W 1% MF	1303303	15
1	J1	AMP 8 PIN CONNECTOR (WATERLOO)	1209340-00	14
2	D4, D5	DIODE D672	1105275	13
				12
				11
				10
1	C4	CAP. 930UF 30V-10+75%	1010509	9
4	C3, 8, 10, 11	CAP. .01UF 100V20% AXIAL	1001610	8
1	C2	CAP 27 PF 100 V 5% MICA	1001737	7
1	C1	CAP 100PF 100V 5% DM.	1000016	6
1		ETCHED CIRCUIT BOARD	5009483	5
		MODULE ECO HISTORY	B-MH-5409484-06	4
		ASSY DRILLING HOLE LAYOUT	B-AH-5409484-05	3
		X-Y COORDINATE HOLE LOCATION	K-60-5409484-04	2
		8 TO 20V REGULATOR	B-20-5409484-03	1

REV.	CHG	NO.	REV.	NO.	REV.	NO.
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75
76	76	76	76	76	76	76
77	77	77	77	77	77	77
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	80	80	80	80	80	80
81	81	81	81	81	81	81
82	82	82	82	82	82	82
83	83	83	83	83	83	83
84	84	84	84	84	84	84
85	85	85	85	85	85	85
86	86	86	86	86	86	86
87	87	87	87	87	87	87
88	88	88	88	88	88	88
89	89	89	89	89	89	89
90	90	90	90	90	90	90
91	91	91	91	91	91	91
92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
98	98	98	98	98	98	98
99	99	99	99	99	99	99
100	100	100	100	100	100	100

REV	CHG	NO	REV	NO	REV	NO
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62

DRWG NO	REVLTR
K-WL-RKØ5-Ø-3	C

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RKØ5-00014	7/1/72	Ed
B	RKØ5-00031	2/73	Ed
C	RKØ5-00005	4/76	PHK

DRAWN RE Hellen	DATE 11/8/71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE WIRE LIST (RKØ5)	
CHECKED [Signature]	DATE 11-7-71		FOR TAPE* FILE*	
ENG [Signature]	DATE 24 Nov 71		SIZE K	CODE WL
PROJ ENG [Signature]	DATE 11-24-71		DWG. NO. RKØ5-Ø-3	
PROD [Signature]	DATE 11/29/71	ASSY NO D-AD-7008696-0-0	REV LTR C	
SCALE NONE		SHEET 1 OF 1		DIST.

PK25.C	8:56	PAGE 1
RUN NAME	NC LENGTH EXCEPTIONS FLAG	RUN NUMBER
+15VDC	0-4/H	1
+15VDC		1
+15VDC	0-4/H	1
+5VDC BULB	0-4/H	2
+5VDC RULA	0-4/H	2
+5VDC RULB	0-4/H	2
12A	2-5/P	3
12A		3
12A	2-5/H	3
AC LOW	2-7/H	4
AC LOW	1	4
AC LOW	3-7/H	4
AC LOW		4
ADDR ACCEPTED	1-2/H	5
ADDR ACCEPTED		5
ADDR ACCEPTED	1-2/H	5
ADDRESS INVALID	0-5/H	6
ADDRESS INVALID		6
ADDRESS INVALID	0-5/H	6
BLOWER MTR RELAY DR	5-5/H	7
BLOWER MTR RELAY DR		7
BLOWER MTR RELAY DR	5-5/H	7
BUS ADDR ACCEPTED	3-2/H	8
BUS ADDR ACCEPTED	1	8
BUS ADDR ACCEPTED	4-2/H	8
BUS ADDR ACCEPTED		8
BUS ADDR INVALID	1	9
BUS ADDR INVALID	4-1/H	9
BUS ADDR INVALID		9
BUS ADDR INVALID	5-1/H	9
BUS FILE READY	4-6/H	10
BUS FILE READY	1	10
BUS FILE READY	5-6/H	10
BUS FILE READY		10
BUS INDEX PUL	4-6/H	11
BUS INDEX PUL	1	11
BUS INDEX PUL	5-6/H	11
BUS INDEX PUL		11
BUS P/M/S READY	3-5/H	12
BUS P/M/S READY	1	12
BUS P/M/S READY	4-5/H	12
BUS P/M/S READY		12

PRG, AC	A/P	PIN	NAME	PP288, V34(62)-1	31-JUL-75	DRPK	PV	RG	Y	X	Z	REMARKS	2-JUN-76	8:56	NC	LENGTH	EXCEPTIONS	PAGE 2	RUN
				NAME	ORDER	ORDER								FLAG					NUMBER
RUS SECTOR ADDR	L	A02H1			1-01 *			D05-3			1			4-7/8					13
RUS SECTOR ADDR	L	A04H1			1-02 *			D05-3			2			1					13
RUS SECTOR ADDR	L	A07L1			1-03 *			D05-3						5-7/8					13
RUS SECTOR ADDR	L				1														13
RUS SECTOR ADDR 1	L	A02J1			1-01 *			D05-4			1			3-5/8					14
RUS SECTOR ADDR 1	L	A07P2			1-02 *			D05-4			2			1					14
RUS SECTOR ADDR 1	L	A08P2			1-03 *			D05-4						4-5/8					14
RUS SECTOR ADDR 1	L				1														14
RUS SECTOR ADDR 2	L	A02L1			1-01 *			D05-4			1			4-1/8					15
RUS SECTOR ADDR 2	L	A07K2			1-02 *			D05-4			2			1					15
RUS SECTOR ADDR 2	L	A08K2			1-03 *			D05-4						5-1/8					15
RUS SECTOR ADDR 2	L				1														15
RUS SECTOR ADDR 3	L	A02P1			1-01 *			D05-4			1			4-1/8					16
RUS SECTOR ADDR 3	L	A07J1			1-02 *			D05-4			2			1					16
RUS SECTOR ADDR 3	L	A08J1			1-03 *			D05-4						5-1/8					16
RUS SECTOR ADDR 3	L				1														16
RUS SECTOR PULSE	L	A02F1			1-01 *			D05-3			1			5-2/8					17
RUS SECTOR PULSE	L	A08N2			1-02 *			D05-3			2			1					17
RUS SECTOR PULSE	L	A07N2			1-03 *			D05-3						6-2/8					17
RUS SECTOR PULSE	L				1														17
RUS SEFK INCOMPLETE	L	A02M1			1-01 *			D05-4			1			3-3/8					18
RUS SEFK INCOMPLETE	L	A07S2			1-02 *			D05-4			2			1					18
RUS SEFK INCOMPLETE	L	A08S2			1-03 *			D05-4						4-3/8					18
RUS SEFK INCOMPLETE	L				1														18
RUS WR PROTECT STATUS	H	A03U1			1-01 *			D05-8			1			2-3/8					19
RUS WR PROTECT STATUS	H	A07P1			1-02 *			D05-8			2			1					19
RUS WR PROTECT STATUS	H	A08P1			1-03 *			D05-8						3-3/8					19
RUS WR PROTECT STATUS	H				1														19
RUS WRITE CK	H	A04P1			1-01 *			D05-8			1			2-3/8					20
RUS WRITE CK	H	A07K1			1-02 *			D05-8			2			1					20
RUS WRITE CK	H	A08K1			1-03 *			D05-8						3-3/8					20
RUS WRITE CK	H				1														20
COS POSITION	H	A05U1			1-01 *			D05-9			1			1-5/8					21
COS POSITION	H	A06P1			1-02 *			D05-9						1-5/8					21
COS POSITION	H				1														21
COUNT PULSE FWD	H	A05A1			1-01 *			D05-5			1			5-1/8					22
COUNT PULSE FWD	H	A08K1			1-02 *			D05-5						5-1/8					22
COUNT PULSE FWD	H				1														22
COUNT PULSE REV	H	A05C1			1-01 *			D05-5			1			4-3/8					23
COUNT PULSE PFV	H	A03P1			1-02 *			D05-5						3-3/8					23
COUNT PULSE REV	H				1														23
CYC ADDR 0	L	A07K1			1-01 *			D05-5			2			1					24
CYC ADDR 0	L	A08K1			1-02 *			D05-5			1			4-4/8					24
CYC ADDR 0	L	A03L1			1-03 *			D05-5						5-4/8					24
CYC ADDR 0	L				1														24

[illegible]

NAME	DATE	TIME	TEST	RESULT	REMARKS	2-JUN-76	2-50	ENGINE	EXCEPTIONS	NUMBER
NAME	DATE	TIME	TEST	RESULT	REMARKS	2-JUN-76	2-50	ENGINE	EXCEPTIONS	NUMBER
DIFF 0	L	AP3C1	1-01 *	005-7	1	5-7/8	37			
DIFF 1	L	AP5S2	1-02 *	005-7			37			
DIFF 4	L		1			5-7/8	37			
DISK RELAY DP	4	AP4A1	1-01 *	005-8	1	4-1/8	38			
DISK RELAY DP	4	AP5P1	1-02 *	005-8		4-1/8	38			
DISK RELAY DP	4		1				38			
DR UNLOCKING SOLENOID	L	AP6P1	1-01 *	005-8	1	4-5/8	39			
DR UNLOCKING SOLENOID	L	AP4V1	1-02 *	005-8		4-5/8	39			
DR UNLOCKING SOLENOID	L		1				39			
FAULT INP	H	AP4N2	1-01 *	005-8	1	1-3/8	40			
FAULT INP	H	AP4H1	1-02 *	005-8		1-3/8	40			
FAULT INP	H		1				40			
FWD	4	AP3J1	1-01 *	005-5	1	1-0/8	41			
FWD	4	AP5J2	1-02 *	005-5		1-6/8	41			
FWD	H		1				41			
GND A1		AP1C2	1-01 *		1	2-1/8	42			
GND A1		AP1T1	1-02 *		2	1-5/8	42			
GND A1		AP1C2	1-03 *		1	2-1/8	42			
GND A1		AP1T1	1-04 *			5-7/8	42			
GND A1			1				42			
GND A2		AP2C2	1-01 *		1	2-1/8	43			
GND A2		AP2T1	1-02 *		2	1-5/8	43			
GND A2		AP2C2	1-03 *		1	2-1/8	43			
GND A2		AP2T1	1-04 *			5-7/8	43			
GND A2			1				43			
GND A3		AP3C2	1-01 *		1	2-1/8	44			
GND A3		AP3T1	1-02 *		2	1-5/8	44			
GND A3		AP3C2	1-03 *		1	2-1/8	44			
GND A3		AP3T1	1-04 *			5-7/8	44			
GND A3			1				44			
GND A4		AP4C2	1-01 *		1	2-1/8	45			
GND A4		AP4T1	1-02 *		2	1-5/8	45			
GND A4		AP4C2	1-03 *		1	2-1/8	45			
GND A4		AP4T1	1-04 *			5-7/8	45			
GND A4			1				45			
GND A5		AP5C2	1-01 *		1	2-1/8	46			
GND A5		AP5T1	1-02 *		2	1-5/8	46			
GND A5		AP5C2	1-03 *		1	2-1/8	46			
GND A5		AP5T1	1-04 *			5-7/8	46			
GND A5			1				46			

WKS.C	APP2R.V34(62)-1	31-JUL-75	Q	PPA	OPT	PV	AG	Y	X	Z	REMARKS	2-JUN-76	5-50	PC LENGTH	PAGE 5	FLAG	ADDRESS	ROW
RUN NAME	A/P	PTN	ORDER	RAVE	PIN	ORDER	PAY											
GND 26				A26C2			1-21 *							2-1/8			17	
GND 26				A26T1			1-22 *							1-5/8			47	
GND 26				R26C2			1-23 *							0-1/4			47	
GND 26				R26C1			1-24 *	025-9						0-4/8			47	
GND 26				R26F1			1-25 *	025-9						0-5/8			47	
GND 26				R26T1			1-26 *	025-9						1-4/8			47	
GND 26				R26T1			1-27 *	025-9						0-1/8			47	
GND 26				R26S1			1-28 *	025-9						1-2/8			47	
GND 26							1										47	
GND 27				R27R2			1-21 *							0-1/8			48	
GND 27				A27C2			1-22 *							1-5/8			48	
GND 27				A27N1			1-23 *							0-1/8			48	
GND 27				A27F1			1-24 *							0-1/4			48	
GND 27				A27R1			1-25 *							0-1/8			48	
GND 27				A27S1			1-26 *							0-1/4			48	
GND 27				A27T1			1-27 *							0-3/8			48	
GND 27				A27V1			1-28 *							1-3/8			48	
GND 27				R27R2			1-29 *							0-1/8			48	
GND 27				R27C2			1-30 *							0-1/8			48	
GND 27				R27D1			1-31 *							0-1/4			48	
GND 27				R27E1			1-32 *							1-7/8			48	
GND 27				R27T1			1-33 *							0-4/4			48	
GND 27				R27V2			1-34 *							0-7/8			48	
GND 27							1										48	
GND 28				A28P2			1-21 *							0-1/8			49	
GND 28				A28C2			1-22 *							1-5/8			49	
GND 28				A28V1			1-23 *							0-1/4			49	
GND 28				A28D1			1-24 *							0-1/8			49	
GND 28				A28R1			1-25 *							0-1/8			49	
GND 28				A28S1			1-26 *							0-1/8			49	
GND 28				A28T1			1-27 *							0-3/8			49	
GND 28				A28V1			1-28 *							0-1/4			49	
GND 28				R28R2			1-29 *							0-1/8			49	
GND 28				R28C2			1-30 *							0-1/4			49	
GND 28				R28D1			1-31 *							0-1/4			49	
GND 28				R28F1			1-32 *							1-7/8			49	
GND 28				R28T1			1-33 *							0-4/8			49	
GND 28				R28V2			1-34 *							0-7/8			49	
GND 28							1										49	
GND STROBE				R28F1			1-21 *							1-1/8			50	
GND STROBE				R28D1			1-22 *							1-1/8			50	
GND STROBE							1										50	
HEAD SELECT				A21P1			1-21 *							5-2/8			51	
HEAD SELECT				R27N2			1-22 *							1			51	
HEAD SELECT				R28N2			1-23 *							0-2/8			51	
HEAD SELECT							1										51	
HIGH DENSITY				R21P2			1-21 *							1-3/8			52	
HIGH DENSITY				R27P2			1-22 *							1			52	
HIGH DENSITY				R28P2			1-23 *							5-3/8			52	
HIGH DENSITY							1										52	

[illegible]

LARGE C		APP208.044(02)-1		31-JUL-75		2-JUN-76		PAGE 7		C. LENGTH EXCEPTIONS		PAGE 7	
RUN NAME	A/P	PIN	ORDER	NAME	PIN	ORDER	NAME	PIN	ORDER	NAME	PIN	ORDER	NAME
OUTER LIMIT	1	A03K1	1-01 *	A03K1	1-01 *	025-6	025-6	1	2	1	1	60	60
OUTER LIMIT	1	A03K1	1-02 *	A03K1	1-02 *	025-6	025-6	1	1	1-3/4	1-3/4	56	56
OUTER LIMIT	1	A05P1	1-03 *	A05P1	1-03 *	025-6	025-6	1	1	2-3/4	2-3/4	60	60
POWER SUP DR	1	A05H2	1-01 *	A05H2	1-01 *	025-9	025-9	1	1	1-3/4	1-3/4	67	67
POWER SUP DR	1	A06W1	1-02 *	A06W1	1-02 *	025-9	025-9	1	1	5-5/8	5-5/8	67	67
PROTECT INP	1	A06C1	1-01 *	A06C1	1-01 *	025-9	025-9	1	1	5-5/8	5-5/8	67	67
PROTECT INP	1	A03U2	1-02 *	A03U2	1-02 *	025-9	025-9	1	1	5-5/8	5-5/8	67	67
PROTECT INP	1	A02D1	1-01 *	A02D1	1-01 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
PAR SEC KNOUSE	1	A06K1	1-02 *	A06K1	1-02 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
PAR SEC KNOUSE	1	A03D1	1-01 *	A03D1	1-01 *	025-5	025-5	1	1	5-5/8	5-5/8	67	67
R/S/S READY	1	A04J1	1-02 *	A04J1	1-02 *	025-5	025-5	1	1	5-5/8	5-5/8	67	67
R/S/S READY	1	A02I1	1-03 *	A02I1	1-03 *	025-5	025-5	1	1	5-5/8	5-5/8	67	67
R/S/S READY	1	A01F2	1-01 *	A01F2	1-01 *	025-1	025-1	1	1	5-5/8	5-5/8	67	67
R/S/S READY	1	A02K1	1-02 *	A02K1	1-02 *	025-1	025-1	1	1	5-5/8	5-5/8	67	67
R/S/S READY	1	A01F2	1-01 *	A01F2	1-01 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ CLOCK	1	A07S1	1-02 *	A07S1	1-02 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ CLOCK	1	A08S1	1-03 *	A08S1	1-03 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ CLOCK	1	A01F2	1-01 *	A01F2	1-01 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A01F2	1-01 *	A01F2	1-01 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A07S2	1-02 *	A07S2	1-02 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A08S2	1-03 *	A08S2	1-03 *	025-2	025-2	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A01K2	1-01 *	A01K2	1-01 *	025-1	025-1	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A04B1	1-02 *	A04B1	1-02 *	025-1	025-1	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A07H1	1-03 *	A07H1	1-03 *	025-1	025-1	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A02F2	1-01 *	A02F2	1-01 *	025-9	025-9	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A06J1	1-02 *	A06J1	1-02 *	025-9	025-9	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A02C1	1-01 *	A02C1	1-01 *	025-3	025-3	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A03U1	1-02 *	A03U1	1-02 *	025-3	025-3	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A04K1	1-01 *	A04K1	1-01 *	025-4	025-4	1	1	5-5/8	5-5/8	67	67
READ DATA	1	A03J1	1-02 *	A03J1	1-02 *	025-4	025-4	1	1	5-5/8	5-5/8	67	67
RESTORE	1	A02K1	1-01 *	A02K1	1-01 *	025-4	025-4	1	1	5-5/8	5-5/8	67	67
RESTORE	1	A03J1	1-02 *	A03J1	1-02 *	025-4	025-4	1	1	5-5/8	5-5/8	67	67
RESTORE	1	A02K1	1-01 *	A02K1	1-01 *	025-4	025-4	1	1	5-5/8	5-5/8	67	67
RESTORE	1	A03J1	1-02 *	A03J1	1-02 *	025-4	025-4	1	1	5-5/8	5-5/8	67	67

[illegible]

[illegible][illegible]

