

RK05
disk drive
engineering drawings

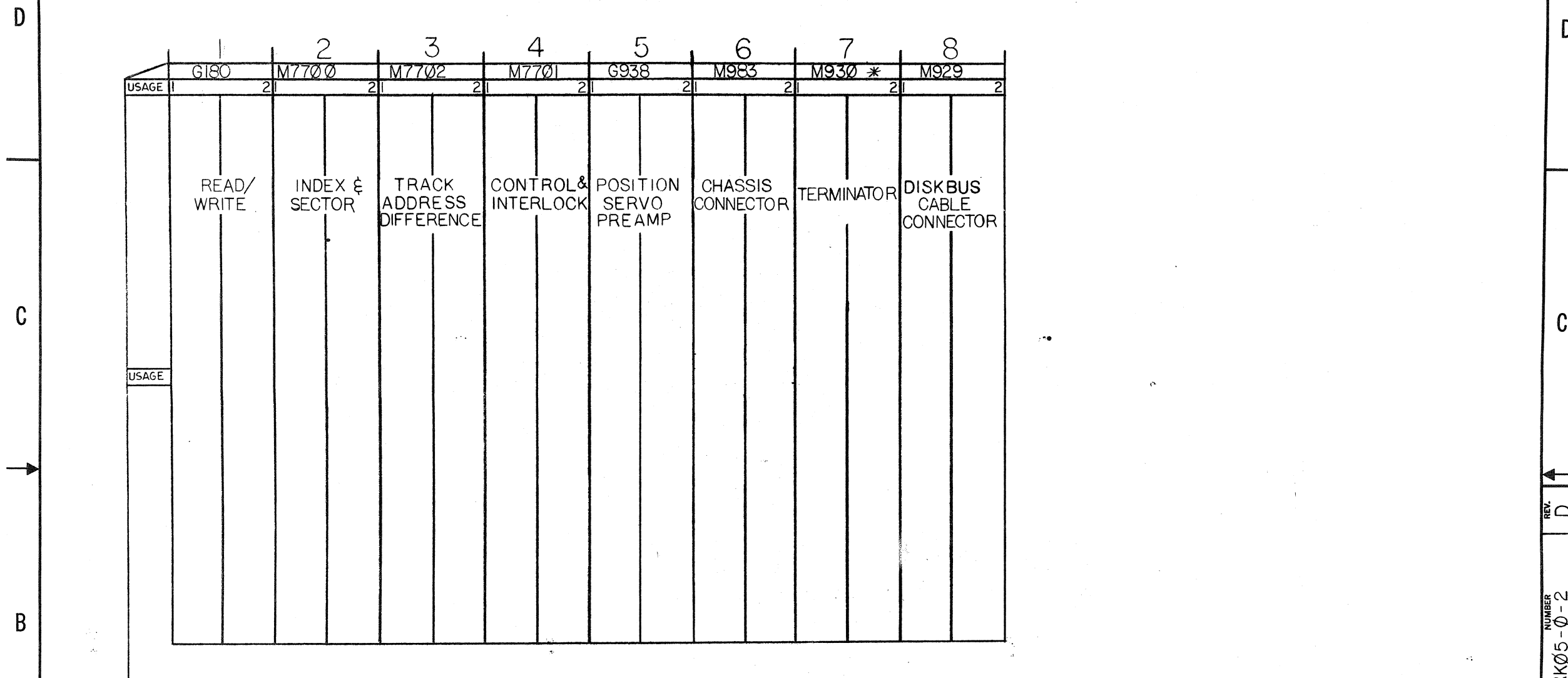
R. Tinga,
23701.

digital equipment corporation • maynard, massachusetts

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NOTE:

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

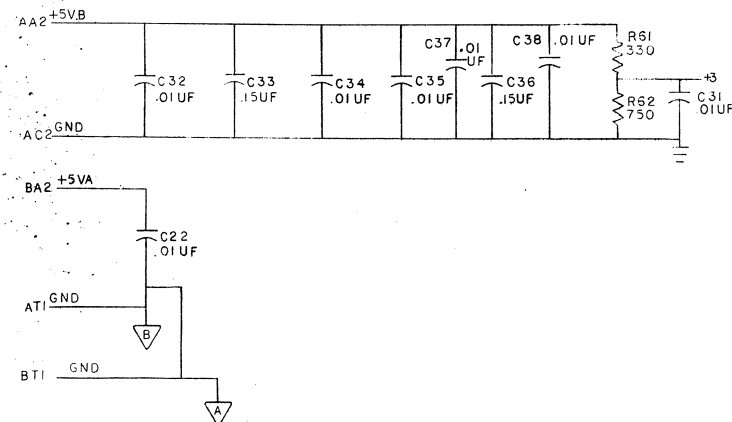
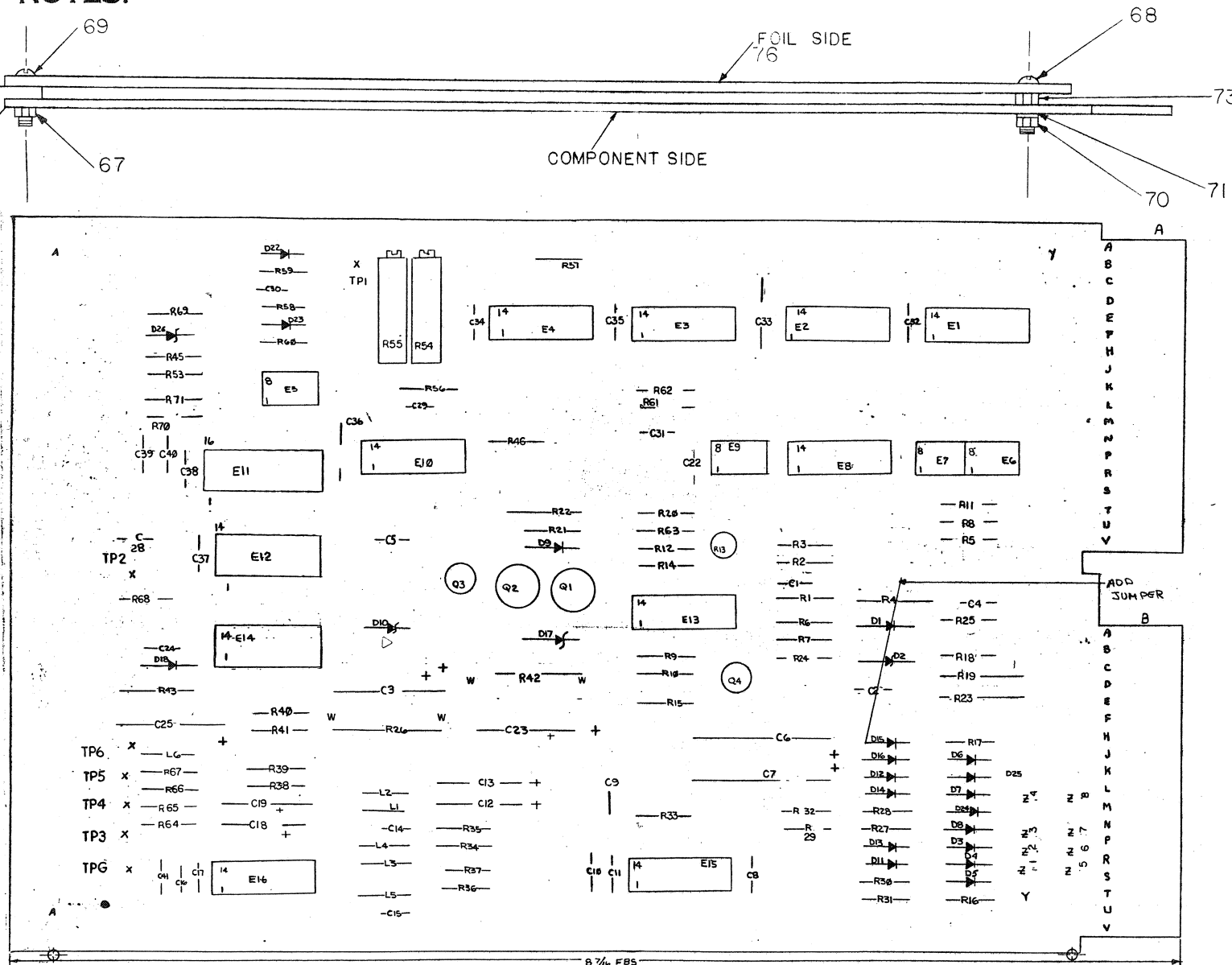


* IF MORE THAN ONE DRIVE IS USED, M930 IS REPLACED BY M929 (BC11A), M930 IS USED IN THE LAST DRIVE ON THE BUS.

REVISIONS		REV.
CHK	CHANGE NO.	
✓	RK05-00002	A
✓	M. Jensen 1-11-72	
✓	D. Jensen	
✓	M. Jensen 2-9-72	B
✓	RK05-00006	
✓	M. Jensen	
✓	D. Jensen 2-11-72	C
✓	RK05-00023	
✓	M. Jensen 3-25-72	
✓	G. SCHNEIDER	
✓	G. SCHNEIDER 10/1/72	D
✓	RK05-00040	
✓	E. Allen 7-7-73	
✓	G. SCHNEIDER	
✓	G. SCHNEIDER 10/2/73	

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05			PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS .XXX = .005 .XX = .02 .X = .1 ANGLES ±0° 30' REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓ MATERIAL ++ FINISH ++		DRM	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE MODULE UTILIZATION	
		CHK'D	DATE		
		ENG	DATE		
		PROD	DATE		
NEXT HIGHER ASSY.		B-DD-RK05-0		SIZE CODE	NUMBER
SCALE NONE		C MU		RK05-0-2	
SHEET		OF	DIST.	REV. D	

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




1	D26	DIODE IN748A (3.9V ZENER)	1100122	79
1	R69	RES. 180 1/4W 5%	1301322	71
2	R7,R10	RES. 100 1/4W 5%	1300229	71
1		NOISE SHIELD	5009893	76
2		HANDLE,FLIP CHIP-GREEN	9008337-OI	79
7	TPG,TPI 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	68
2		SCREW PAN HD *2-56X5/16	9006002-I	68
2		KEP NUT 4/40	9006557	67

3	E6,E7E9	I.C DEC 75452	1910645	66
2	E15,16	I.C DEC 733	1910644	65
1	E14	I.C DEC 1414	1910337	64
1	E5	I.C DEC 741	1910298	63
1	E1	I.C DEC 8881	1909705	62
2	E2,E8	I.C DEC 380	1909485	61
1	E10	I.C DEC 9601	1909373	60
1	E13	I.C DEC 7472	1905588	59
2	E4,E12	I.C DEC 7400	1905575	58
1	E3	I.C DEC 7474	1905547	57
1	L6	INDUCTOR 120UH	1610663	56
2	L1,L2	INDUCTOR 56UH	1610661	55
3	L3,L4,L5	INDUCTOR 100UH	1610662	54
1	Q3	TRANSISTOR DEC 6534C	1503409-02	53
1	Q4	TRANSISTOR DEC 3009B	1503100	52
2	Q1,Q2	TRANSISTOR 2N2904	1501742	51
				50
1	R13	POT 1K 1/2W 20% 62PR	1309150-03	49
2	R54,55	POT 10K 3/4W 10% 76PR	1309143-10	48
2	R16,R17	RES.27K 1/4W 5%	1305346	47
2	R27,R28	RES.8.2K 1/4W 5%	1303179	46
1	R60	RES.220K 1/4W 5%	1302092	45
1	R4	RES.270 1/2W 5%	1300285	44
2	R40,R41	RES.560 1/4W 5%	1301890	43
6	R6,9,45,53,70,71	RES.5.6K 1/4W 5%	1301874	42
1	R11	RES.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	R5,6,18,38,39,57	RES.10K 1/4W 5%	1300479	36
1	R59	RES.4.7K 1/4W 5%	1300447	35
1	E11	I.C DEC 7413	1904336	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.330 1/4W 5%	1300295	29
2	R29,R32	RES.220 1/4 5%	1300271	28
2	R26,R42	RES.180 1/4 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 1/4W 5%	1300249	24
1	R33	RES.47 1/4W 5%	1300202	23
8	I-B	GOLD WIRE WRAP PINS	1210338-1	22
18	D10,16,17,22,24,28,31	DIODE D617	1105275	21
1	D2	DIODE IN 751A(5.1V ZENER)	1100994	20
				19
3	D10, D17, D18	DIODE IN 753A(6.2V ZENER)	1102421	18
13	C9,C33,C36	CAP.15UF 50V 10% POLYCARBONATE	10106031	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	C40,11,16,17,22,24,28,31	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
6	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

DEC 380	1	8
DEC 75452	4	8
IC TYPE	GND	+5V

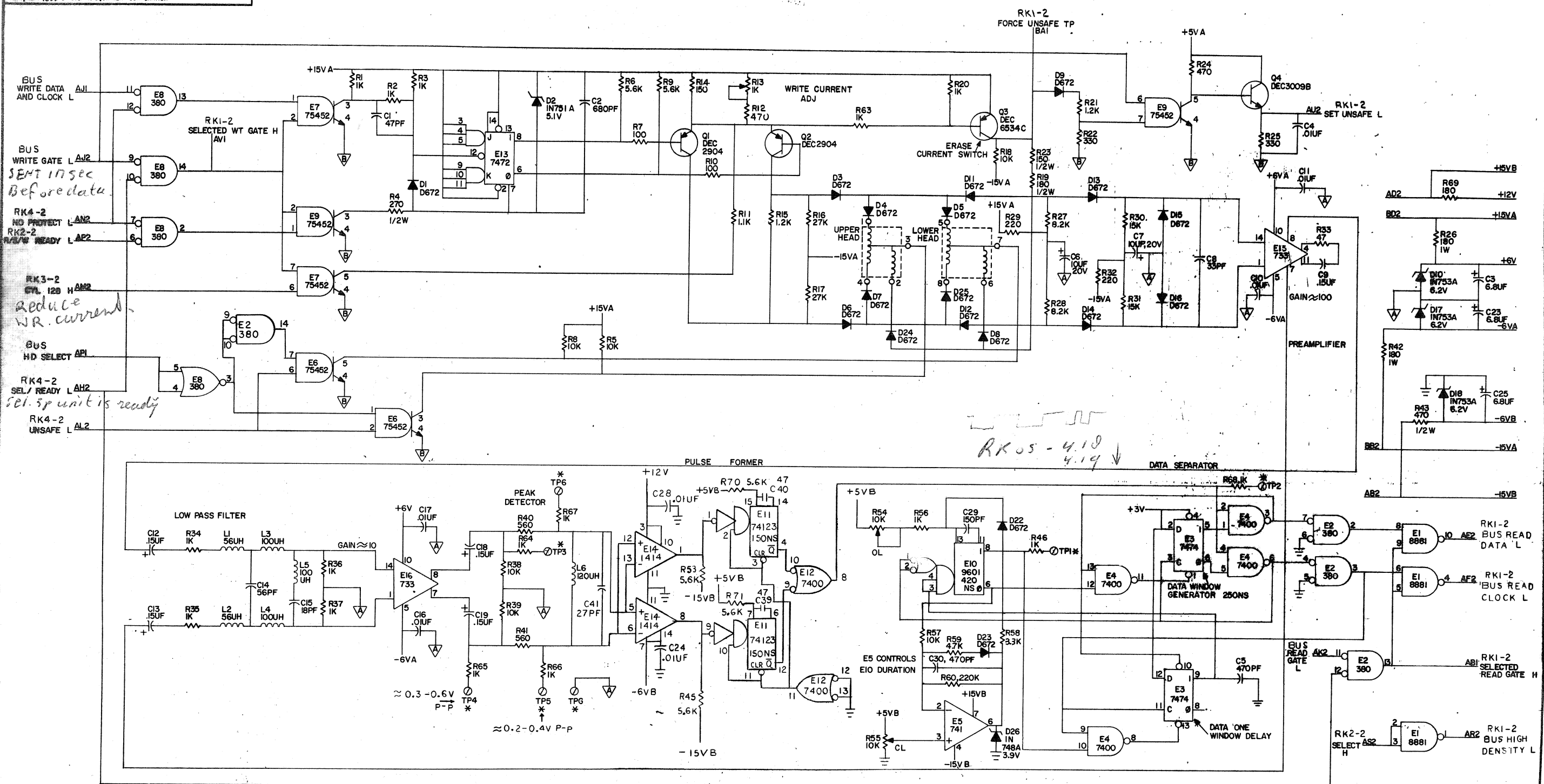
GND AND 5V ARE USUALLY PIN 7 AND 14
RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	
PARTS LIST					
ETCH BOARD REV.					
		DRN. <u>R. DOUCETTE</u>	DATE <u>10-30-71</u>	 TITLE DEC PACK READ/ WRITE	
		CHK'D. <u>NANCY MOORE</u>	DATE <u>11-30-71</u>		
		ENG. <u>DALE JENSEN</u>	DATE <u>1-22-72</u>		
IN746A	SAME	PROJ. ENG. <u>A. KARLSBERG</u>	DATE <u>1-22-72</u>		
IN753A	SAME	PROD. <u>A. KARLSBERG</u>	DATE		
IN751A	SAME	NEXT HIGHER ASSY			
D672	IN3653				
DEC NO.	EIA NO.	SCALE			
CONVERSION CHART		SHEET 1 OF 2	SIZE CODE D CS	NUMBER G180-0-1	REV. L

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1-0-0910
REV. 11/71
SC 1000 11/15



UNLESS OTHERWISE INDICATED:

* INDICATES SWAGE LUG

▽ = ANALOG GND "A" BTI

▽ = ANALOG GND "B" ATI

⊥ = DIGITAL GND AC2

--- = COMPONENTS NOT MOUNTED ON BOARD

ALL TIMES INDICATED ARE NOMINAL

REVISIONS
CHG NO. REV

DATE
BY
CHKD
DATE
BY
CHKD
DATE
BY
CHKD

TRANSISTOR & DIODE CONVERSION CHART
DEC EIA DEC EIA
2N2904 2N2904 2N2904 2N2904
2N2904 2N2904 2N2904 2N2904
2N2904 2N2904 2N2904 2N2904

DIGITAL
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DEC PACK READ/WRITE
SIZE D CODE CS NUMBER G100-0-1
PRINTED CIRCUIT REV. L

SLOT -1

SHEET 2 OF 2

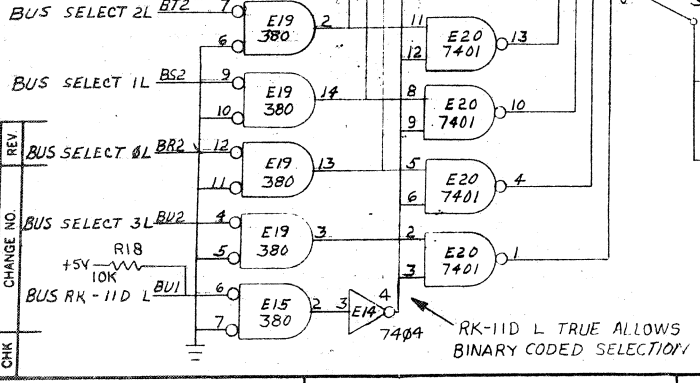
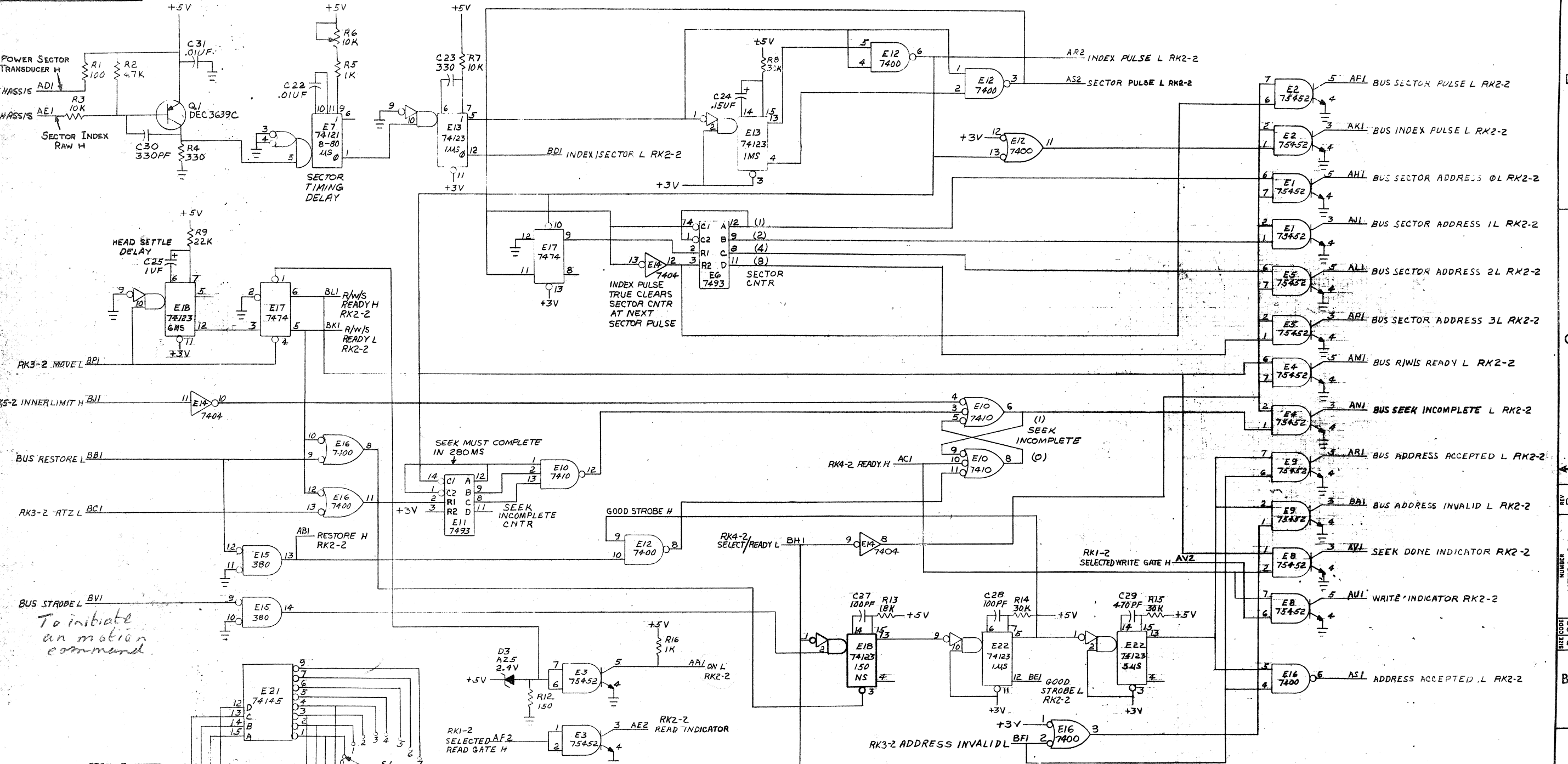


SIZE	CODE	NUMBER	REV
D	CS	M7700-0-1	P

DRN	B. J. Thiele	DATE	10/27
CHK'D	W. L. Thiele	DATE	11/25
ENG.	W. L. Thiele	DATE	11/25
PROD		DATE	

<div style="display: flex; align-items: center;"> <div style="background-color: black; color: white; padding: 5px; margin-right: 5px;">digital</div> <div> <p>EQUIPMENT</p> <p>CORPORATION</p> </div> </div>	<p>TITLE RK2-1</p> <p>DEC PAK INDEX AND SECTOR</p>	
	<p>SIZE D</p> <p>CODE CS</p>	<p>NUMBER M7700-0-1</p> <p>REV P</p>

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



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN E. J. Niles	DATE 8-17-72	PARTS LIST digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX - .006 XX - .02 .X - .1		CHK'D S. L. Niles	DATE 8/23/72		
ANGLES ±0° 30'		ENG. R. L. Caruso	DATE 10-5-72	TITLE DEC PAK INDEX AND SECTOR RK2-2	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG. R. L. Caruso	DATE 10-5-72		
MATERIAL		PROD.	DATE	SIZE CODE D CS	
FINISH		NEXT HIGHER ASSY.	SCALE		
SHEET 2 OF 2		REV. R	1	NUMBER M7700-0-1	

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

1

AREV. 11/1-18[illegible]

1

1

A

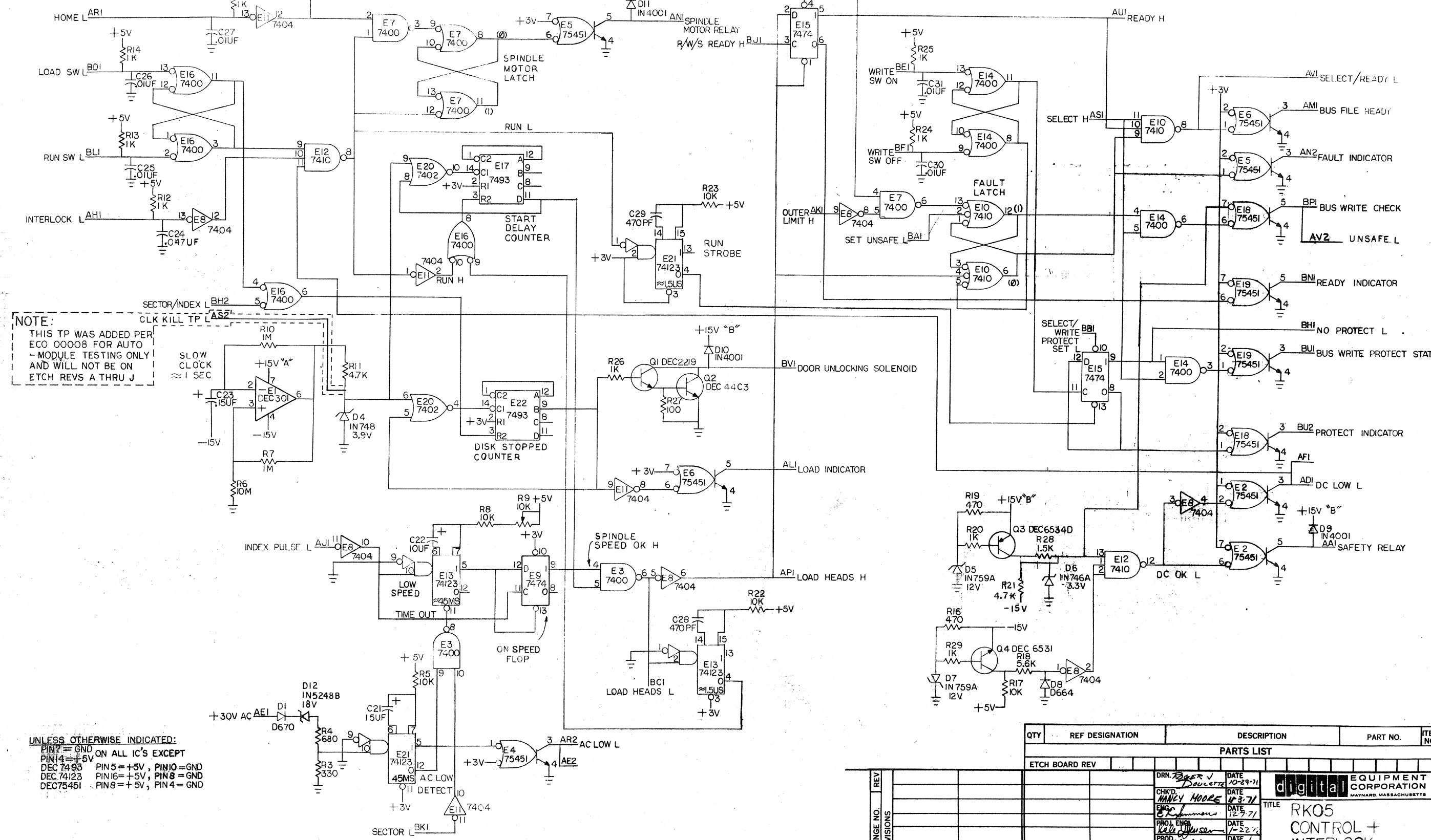
10

Abstract

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.

1-0-1011W 2



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

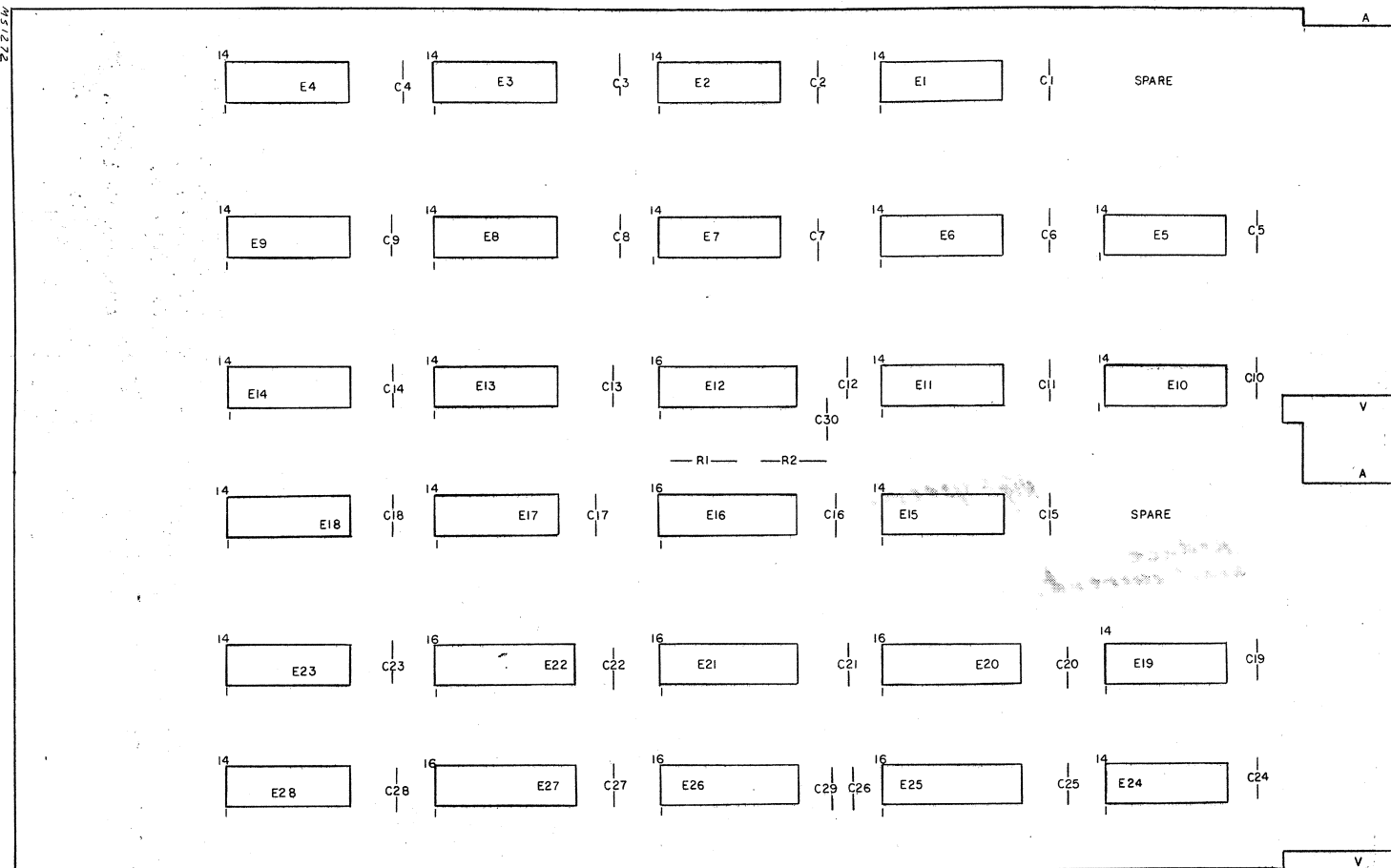
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
REV	CHANGE NO.	REVISIONS	DATE	BY
1			10-29-71	DRN
2			11-3-71	CHKD. MURPHY MOORE
3			12-9-71	ENG. J. C. LAMBERT
4			1-22-72	PROJ. ENGR. K. J. O'NEILL
5			1-21-72	PROD. J. H. HARRIS
NEXT HIGHER ASSY				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
SHEET	2	OF	2	
SCALE				
DIST.				
SIZE CODE				
NUMBER				
REV.				

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
TITLE: RK05 CONTROL + INTERLOCK

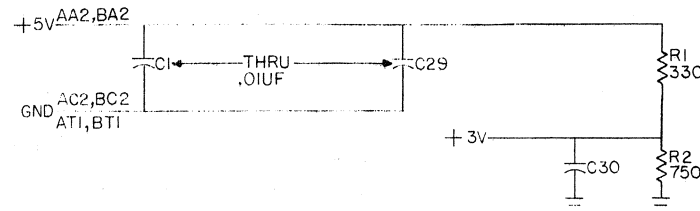
SIZE CODE: DCS
NUMBER: M7701-0-1
REV: 1

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REV C
NUMBER M7702-0-1
SIZE CODE DCS



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



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

PARTS LIST				
ETCH BOARD REV	C			
DRN. Roger J. Doucette	DATE 11-17-71	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHK'D. Smith	DATE 11-19-71			
ENG. C. J. Simmons	DATE 12-16-71			
PROD. ENG. C. J. Simmons	DATE 12-16-71			
PROD.	DATE			
NEXT HIGHER ASSY		RK3-1		
DEC NO.	EIA NO.	DEC NO.	EIA NO.	REV.
				C
SEMICONDUCTOR CONVERSION CHART				SCALE
				SHEET 1 OF 2
SIZE CODE DCS		NUMBER M7702-0-1		REV. C
		DIST.		

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