

18 Sept 1986

Pat Kindelon @ 805-584-0544

Disk drive repair - RK05 Lamps?

digital

RK05 F

Engineering Drawings

Digital Equipment Corporation

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DRAWING DIRECTORY

MODULE UTILIZATION LIST
 READ/WRITE
 DECPAK 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
 DECPAK INDEX & SECTOR (UA)
 DECPAK INDEX & SECTOR (PL)
 CONTROL & INTERLOCK (UA)
 CONTROL & INTERLOCK (PL)

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

MFG. PRINT SET

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

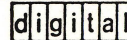
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 B-DD-RK05F-T
 D-UA-RK05F-0-0
 A-PL-RK05F-0-0
 D-AD-7008696-0-0
 D-AD-7008702-0-0
 A-PL-7008702-0-0
 B-DD-H743-0
 A-WT-7008696-0

UNIT VARIATIONS

VAR	TITLE
RK05F-AA	DECPACK 115V 60 HZ
RK05F-AB	DECPACK 230V 60 HZ
RK05F-BA	DECPACK 115V 50 HZ
RK05F-BB	DECPACK 230V 50 HZ
RK05F-CA	RK05F-AA H967
RK05F-CB	RK05F-BB H967
RK05F-DA	RK05F-AA H968 001 PWR CONTROL
RK05F-DB	RK05F-AB H968 001
RK05F-BA	RK05F-BA H968 001
RK05F-DB	RK05F-BB H968 001
RK05F-AA	DECPACK, 16 SECTOR, 115V, 60 HZ
RK05F-AB	DECPACK, 16 SECTOR, 230V, 60 HZ
RK05F-AC	DECPACK, 16 SECTOR, 115V, 50 HZ
RK05F-AD	DECPACK, 16 SECTOR, 230V, 50 HZ
RK05F-FA	DECPACK, 12 SECTOR, 115V, 60 HZ
RK05F-FB	DECPACK, 12 SECTOR, 230V, 60 HZ
RK05F-FC	DECPACK, 12 SECTOR, 115V, 50 HZ
RK05F-FD	DECPACK, 12 SECTOR, 230V, 50 HZ
RK05F-FE	RK05F-FA W.BEZEL FOR H9500 CABS
RK05F-FF	RK05F-FB W.BEZEL FOR H9500 CABS
RK05F-FH	RK05F-FC W.BEZEL FOR H9500 CABS
RK05F-FJ	RK05F-FD W.BEZEL FOR H9500 CABS

REVISIONS	CHK	CHANGE NO.	REV.
		RK05F-1	A
		RK05F-2	B
		RK05F-3	C
		RK05F-4	D
		RK05F-5	E
		RK05F-6	F

USED ON OPTION/MODEL		DRN.	DATE	TITLE
RK05F			5/19/76	DECPACK ASSY
		CHK'D.	DATE	
		T. Guillon	18 MAY 76	
		PROJ. ENG.	DATE	
		M. N...	5/19/76	
		PROD.	DATE	
		J. ...	5/26/76	
SHEET 1 OF 5				



SIZE	CODE	NUMBER	REV
B	DD	RK05F-0	F

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NOTE:

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

USAGE	1	2	3	4	5	6	7	8
	G180	M7680	M7681	M7701	G938-YA	M983	M930 *	M929
	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

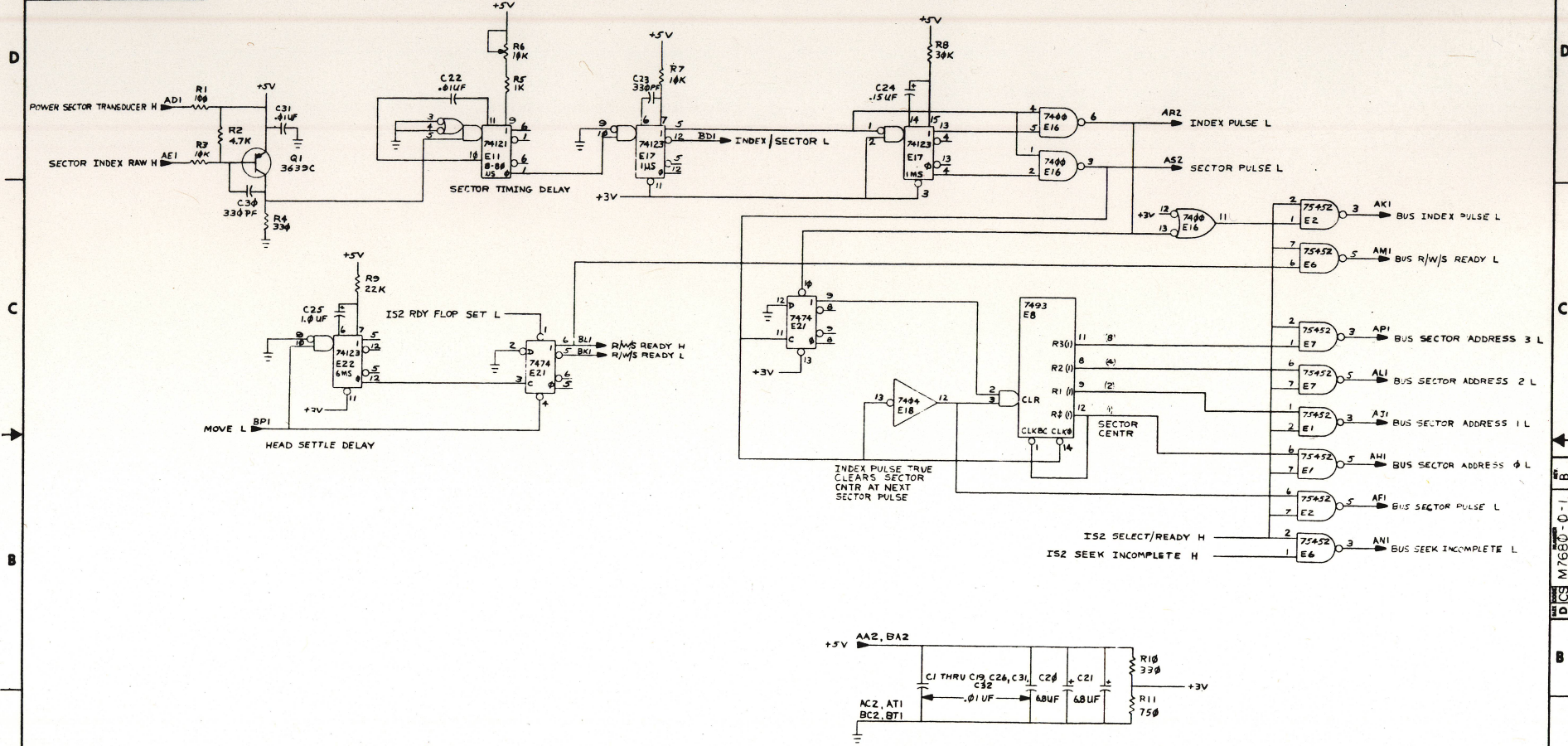
* IF MORE THAN ONE DRIVE IS USED, M930 IS REPLACED BY M929 (BC11A) M930 IS USED IN THE LAST DRIVE ON THE BUS

REVISIONS	REV.
CHANGE NO.	
CHK	

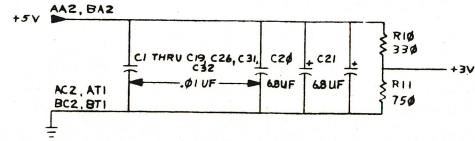
DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 10° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN	MEDIUM <input type="checkbox"/>	OVER 0	OVER 12.0
		UNDER 0.2	OVER 40.0
MICROINCHES	PREFERRED <input type="checkbox"/>	10	12.0
		4.0	40.0
		±.004	±.008
		±.012	±.016
		±.025	±.031
		±.04	±.06
THIRD ANGLE PROJECTION	DRN: <i>[Signature]</i> 11/16/76	FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D: <i>[Signature]</i> 11/16/76	RK05F	digital
DO NOT SCALE DWG	ENG: <i>[Signature]</i>	TITLE	MODULE UTILIZATION
MATERIAL	NEXT HIGHER ASSY.		
FINISH	B-DD-RK05F-0	SIZE	CODE
	SCALE NONE	C	MU
	SHEET 1 OF 1	DIST.	
		NUMBER	REV.
		BK05F-0-2	

B
 C
 D
 1
 2
 3
 4
 RK05F-0-2

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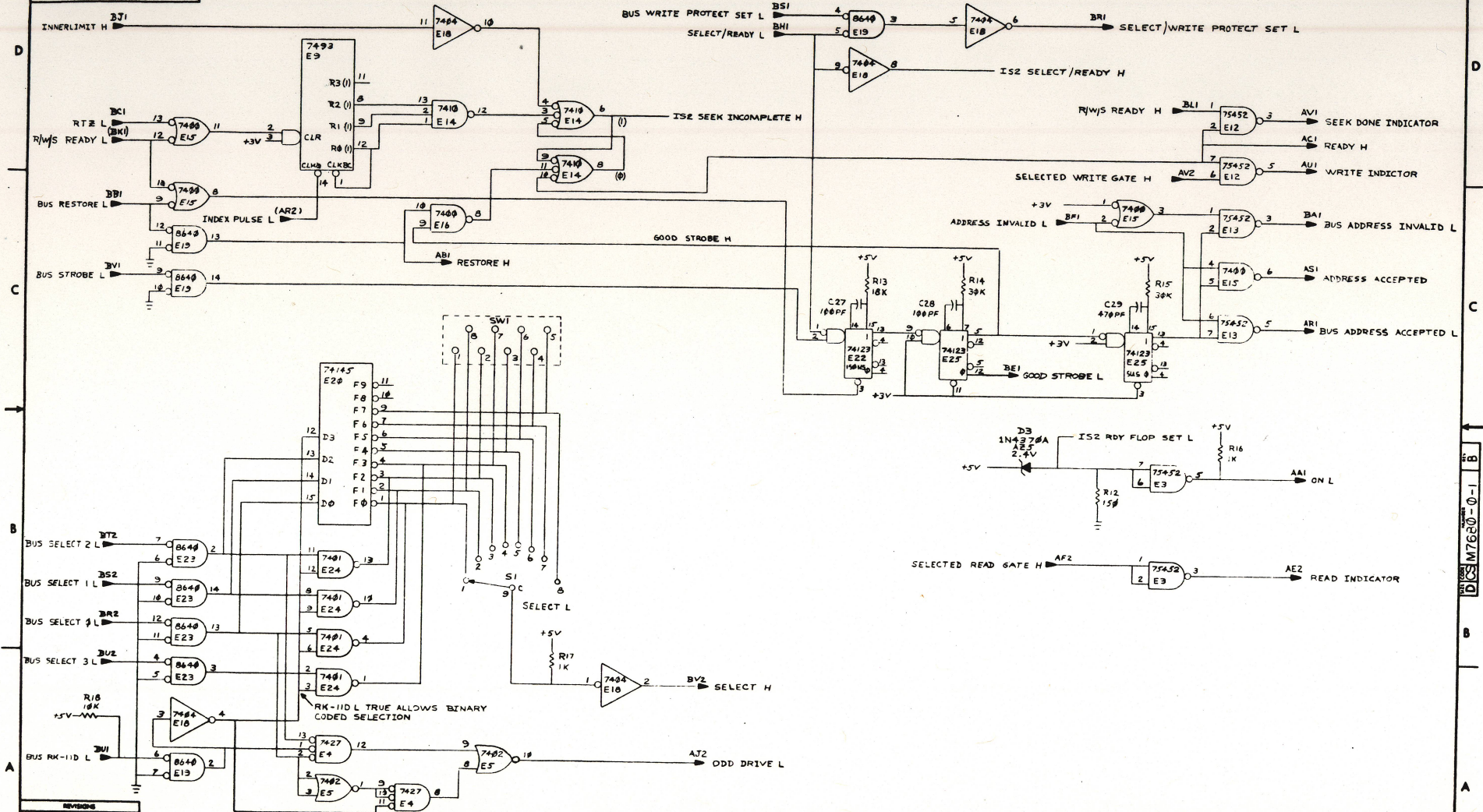


REV. 1	REV. 2
22 JUL 76	3 FEB 76
S. RADOFF	S. RADOFF
310	5-11-77



DRN. 2	22 JUL 76	FIRST USED ON	010000
CHK'D 2	3 FEB 76		
ENG. 3		TITLE	DEC PACK INDEX (ISI) AND SECTOR
PROJ. ENG. 2		SCALE	D
PROJ. 2		NUMBER	M7680-0-1
NEXT HIGHER ASSY.		REV.	B
D-LA-M7680-0-0	SIZE	CODE	
SCALE		DIST.	
SHEET 1 OF 2			

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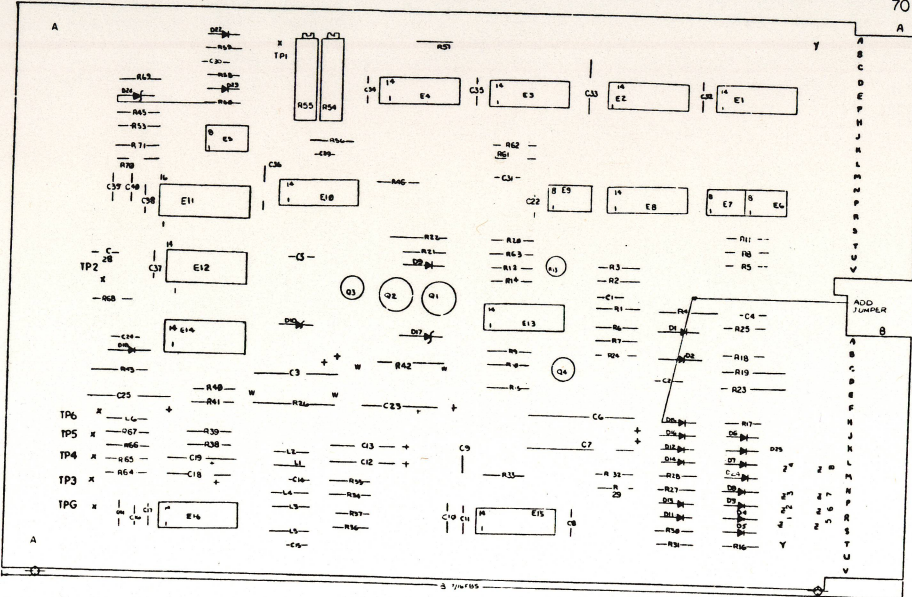
REVISIONS		
ONE	CHANGE NO.	REV.

D CS M7680-0-1

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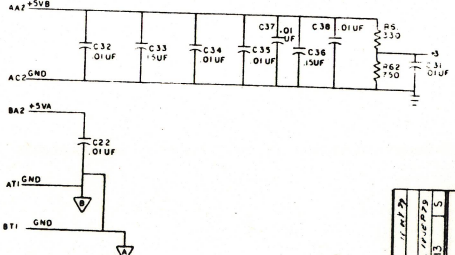
NOTES:

NOTE:
DO NOT INSERT HANDLE HOLE EYELETS ON OUTSIDE HANDLE HOLES (12 PLCS)



DEC 8640	1	8					
DEC 75452	4	8					
IC TYPE	GND	+5V					

GND AND 5V ARE USUALLY PINS 7 AND 14 RESPECTIVELY EXCEPT AS STATED ABOVE
IC PIN LOCATIONS



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	D26	WIRE .30 AWG GREEN	9105740-55	80
1	R69	DIODE 1N748A (3.9V ZENER)	1100122	79
2	R7, R10	RES 180 1/4W 5%	1301322	78
2		NOISE SHIELD	5009983	77
2	TPG, TP1 THRU TP6	HANDLE, FLIP CHIP-GREEN	9008337-01	75
2		SWAGE LUG	9007791	74
2		HEX NUT NYLON, #2-56	9007263	73
2		EYELET #CS4-7	9006732	72
2		INTERNAL LOCK WASHER #2-56	9006631	71
2		HEX NUT #2-56	9006555	70
2		SCREW 4/40 X 3/8	9006011-4	69
2		SCREW PAN HD #2-56 X 5/16	9006002-1	68
2		KEP NUT 4/40	9006557	67

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
3	E6-E7E9	I.C. DEC 75452	1910645	66
2	E15, I6	I.C. DEC 733	1910634	65
1	E14	I.C. DEC 1414	1910737	64
1	E5	I.C. DEC 741	1910738	63
2	E2, E8	I.C. DEC 8881	1910735	62
1	E10	I.C. DEC 8640	1914669	61
1	E13	I.C. DEC 9640	1909373	60
2	E4, E12	I.C. DEC 7472	1905758	59
1	E3	I.C. DEC 7400	1905875	58
1	L6	I.C. DEC 7474	1905547	57
2	L1, L2	INDUCTOR 120UH	1610663	56
3	L3, L4, L5	INDUCTOR 56UH	1610661	55
1	Q3	INDUCTOR 100UH	1610662	54
1	Q4	TRANSISTOR DEC 7534C	1503409-02	53
2	Q1, Q2	TRANSISTOR DEC 1099B	1503100	52
2		TRANSISTOR 2N2904	1501742	51
1	R13	POT 1K 1/2W 20% 62PR	1309150-03	49
2	R54, 55	POT 10K 3/4W 10% 78PR	1309143-10	48
2	R16, R17	RES 27K 1/4W 5%	1305346	47
2	R27, R28	RES 5.2K 1/4W 5%	1303179	46
1	R60	RES 220K 1/4W 5%	1303092	45
1	R4	RES 270 1/2W 5%	1302285	44
2	R40, R41	RES 350 1/4W 5%	1301490	43
6	R6, 3, 45, 53, 70, 71	RES 5.6K 1/4W 5%	1301874	42
1	R11	RES 11K 1/4W 5%	1301475	41
1	R59	RES 1.5K 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
1	R59	RES 10K 1/4W 5%	1300479	36
1	E11	RES 4.7K 1/4W 5%	1300447	35
16	R1, R2, R3, R2C, R34-37	I.C. DEC 74123	1910436	34
1	R46, R56, R63, 68	RES 1K 1/4W 5%	1300365	33
2	R24, R1E	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 1/4W 5%	1300271	28
2	R26, R42	RES 180 1/4W 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 100 1/4W 5%	1300229	23
8	B-8	DIODE D672	1102725	21
1	D1, D3-9, D11-16, D22-25	DIODE IN 751A151V ZENER	1102725	20
1	D2	DIODE IN 751A151V ZENER	1102421	18
3	D10, D17, D18	DIODE IN 753A162V ZENER	1102421	19
13	C9, C13, C36	CAP 50UF 50V 50% TANT	1000331	17
1	C15	CAP 470UF 100V 5% D.M.	1000206	16
4	C12, C13, C18, C19	CAP 10UF 35V 20% S TANT	1000067	15
14	C4, C10, 11, 16, 17, 22, 24, 28, 31, 32, 34, 35, 37, 39	CAP 01UF 50V AXIAL	1001610-00	14
2	C6, C7	CAP 10UF 35V 20% S TANT	1000067	13
3	C3, C23, C25	CAP 800PF 100V 5% D.M.	1000026	12
1	C2	CAP 470PF 100V 5% D.M.	1000024	11
2	C5, C30	CAP 470PF 100V 5% D.M.	1000019	9
1	C41	CAP 50PF 100V 5% D.M.	1001739	8
1	C14	CAP 27PF 100V 5% D.M.	1000027	7
3	C1, C39, C40	CAP 56PF 100V 5% D.M.	1000011	6
3	C8, C5	CAP 47PF 100V 5% D.M.	1002608	5
2		CAP 16PF 100V 5% D.M.	5009743	4
1		ETCHED CIRCUIT BOARD	8-WH-6180-0-6	3
1		MODULE ECO HISTORY	E-41-6180-0-5	2
1		ASSY DRILLING HOLE LAYOUT	X-Y COORDINATE HOLE LOCATION	1

DATE	BY	CHK	CHANGE NO	REV
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			
12-27-74	J. S. WARD			

PARTS LIST		DATE	REV
2N2904	2N2118A	IN746A	SAME
DEC 3009B	2N3009	IN753A	SAME
DEC 6534C	MP56534	IN751A	SAME
DEC NO.	EIA NO.	DEC NO.	EIA NO.
D672	IN3653		

DRN	DATE
A. COLLETTE	12-27-74
NEWBY MARRS	12-10-74
DALE JENSEN	12-22-74
E. KABERGER	12-27-74

TITLE: DEC PACK READ/ WRITE

SIZE CODE: D CS

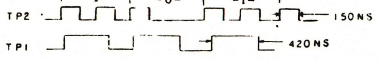
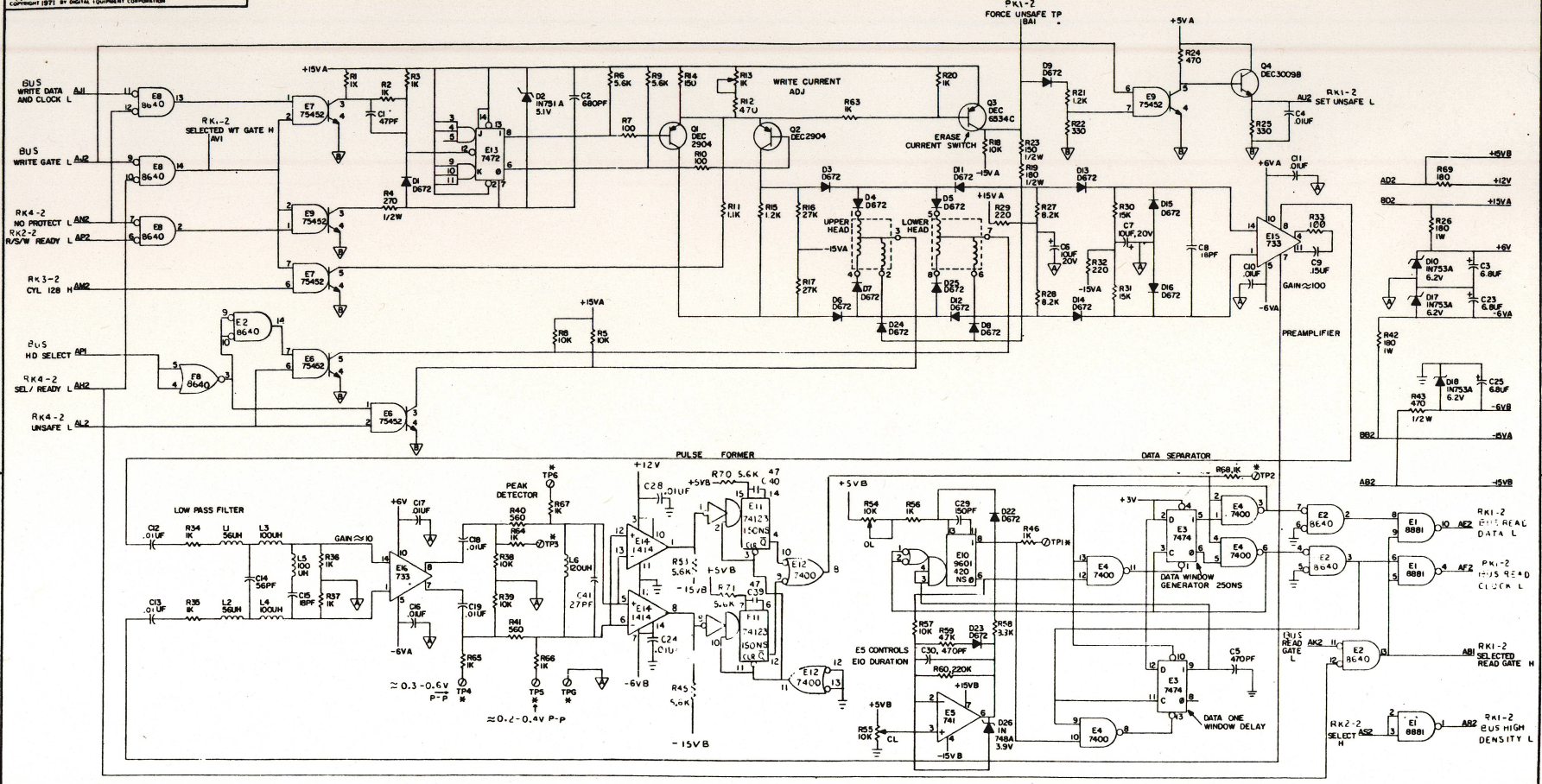
NUMBER: 6180-0-1

SCALE: 1 OF 2

SHEET: 1

REV: S

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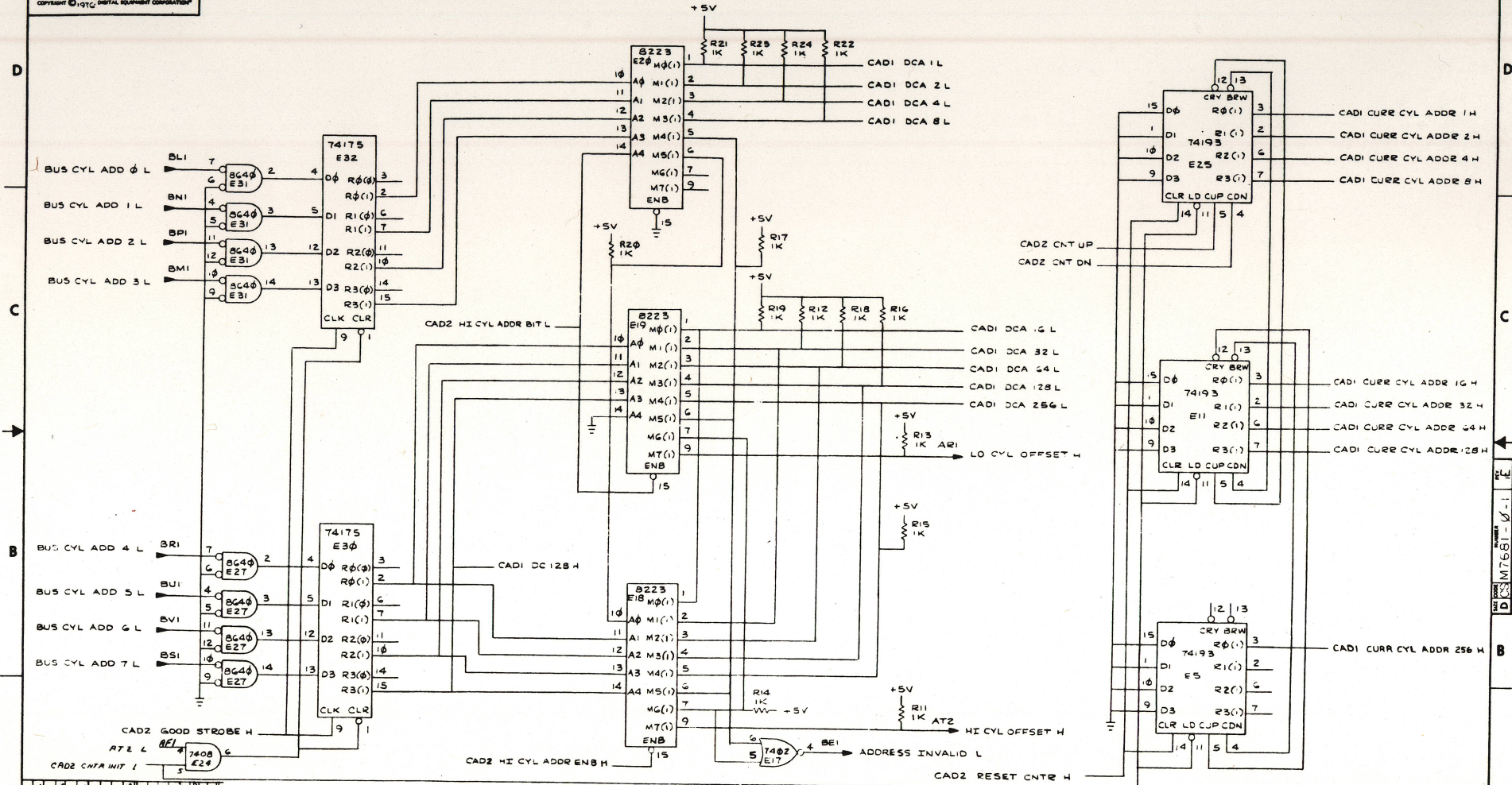


- UNLESS OTHERWISE INDICATED:
 * INDICATES SWAGE LUG
 ▽ - ANALOG GND "A" AT1
 ▽ - ANALOG GND "B" AT1
 ⊥ - DIGITAL GND AC2
 --- COMPONENTS NOT MOUNTED ON BOARD
 ALL TIMES INDICATED ARE NOMINAL

SL01-1

REVISION 1 2 3	DATE 11/20/68 BY J. H. ... CHECKED ... APPROVED ...	TITLE DEC PACK READ/WRITE PK1-2	
	TRANSISTOR & DIODE CONVERSION CHART MANUFACTURER PART NO. MFG. DEC EQUIV. MANUFACTURER PART NO. MFG. DEC EQUIV.	DIGITAL EQUIPMENT CORPORATION 300 MAIN STREET BOSTON, MASS. 02118	DRAWING NUMBER 13-00101-1 PRINTED CIRCUIT REV.
	DEC 3009B 2N5535 SAMS 2N5535 DEC 3009B 2N5509 SAMS 2N5509 DEC 3009B 2N5509 SAMS 2N5509 DEC 3009B 2N5509 SAMS 2N5509	DEC 3009B 2N5535 SAMS 2N5535 DEC 3009B 2N5509 SAMS 2N5509 DEC 3009B 2N5509 SAMS 2N5509 DEC 3009B 2N5509 SAMS 2N5509	SHEET NO. 1 TOTAL SHEETS 2 DRAWN BY ... CHECKED BY ... APPROVED BY ...
	SHEET NO. 1 TOTAL SHEETS 2	SHEET NO. 1 TOTAL SHEETS 2	SHEET NO. 1 TOTAL SHEETS 2

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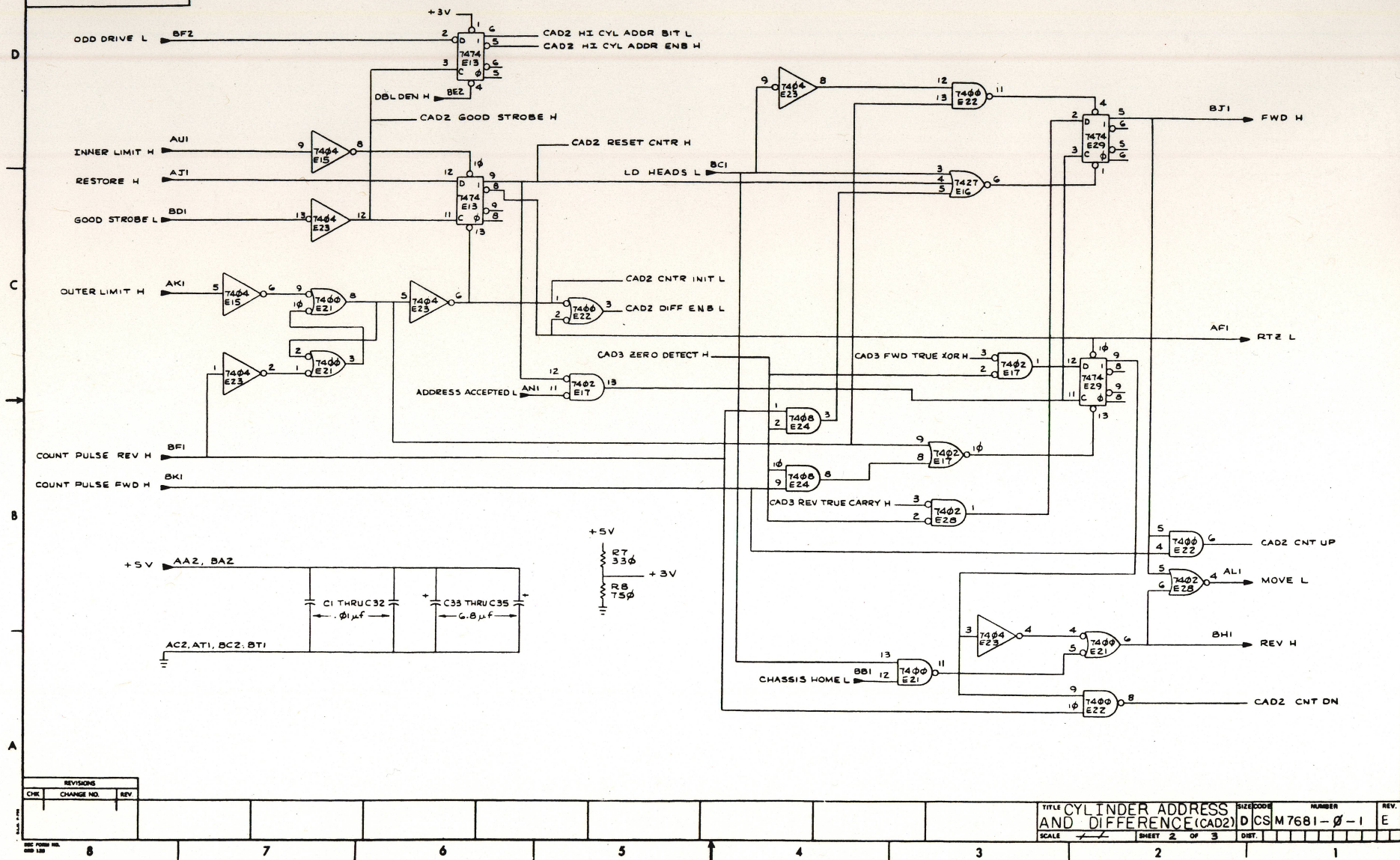
REV.	REV. 1	REV. 2	REV. 3	REV. 4	REV. 5	REV. 6	REV. 7	REV. 8	REV. 9	REV. 10
DATE	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76
BY	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK
CHKD	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK
APP'D	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK
DATE	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76	11/17/76
BY	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK
CHKD	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK
APP'D	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK	J. HANCOCK

ETCH REV D

DRW. NO.	1/21176	FIRST USED ON	RK05F
CHKD. BY	1/21176	DATE	7/28/76
ENGR.			
PROD. ENGR.			
PROD. BY			
NEXT HIGHER ASSY.	RK05F		
U-VA-M7681-0-0	SIZE	CODE	NUMBER
SCALE	1	CS	M7681-0-1
SHEET 1	OF 3	DIST.	

D E M7681-0-1

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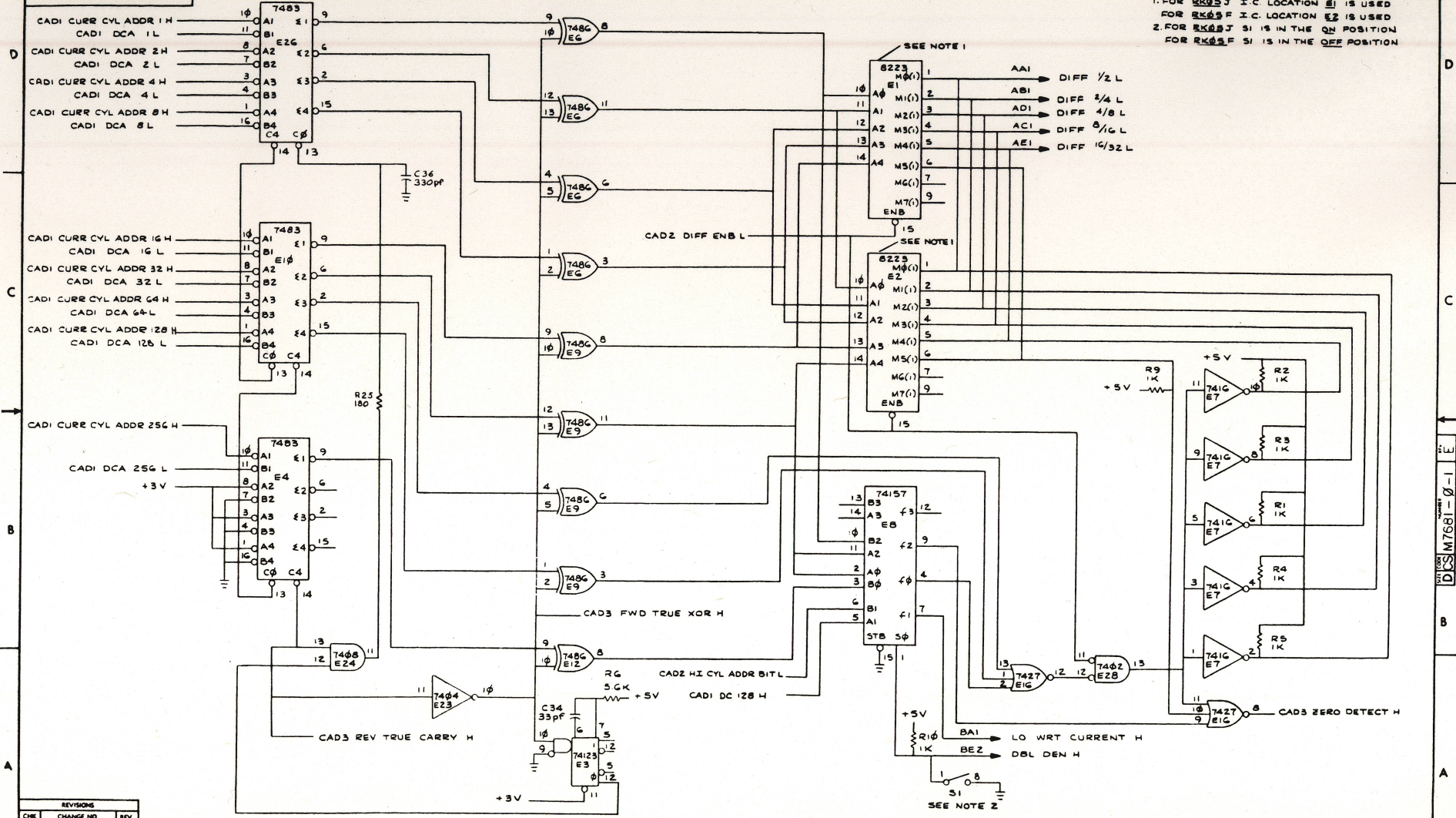


REVISIONS		
CHK	CHANGE NO.	REV

DCS M7681-0-1 E

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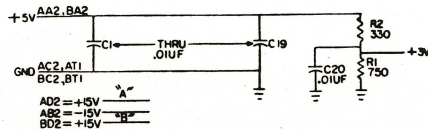
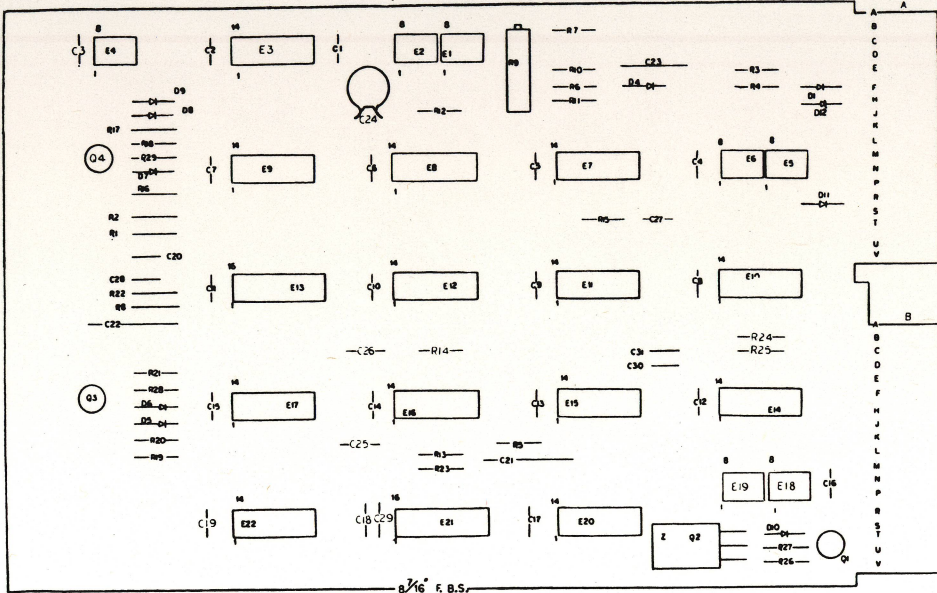
NOTE:
 1. FOR **8223** I.C. LOCATION **E1** IS USED FOR **8223** F I.C. LOCATION **E2** IS USED
 2. FOR **8223** S1 IS IN THE **ON** POSITION FOR **8223** S1 IS IN THE **OFF** POSITION



REVISIONS		
CHR	CHANGE NO.	REV

DCS M7681-0-1

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REV	DATE	DESCRIPTION
1	6-21-73	S. RAOFF
2	6-21-73	S. RAOFF
3	6-21-73	S. RAOFF
4	6-21-73	S. RAOFF
5	6-21-73	S. RAOFF
6	6-21-73	S. RAOFF
7	6-21-73	S. RAOFF
8	6-21-73	S. RAOFF
9	6-21-73	S. RAOFF
10	6-21-73	S. RAOFF
11	6-21-73	S. RAOFF
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17	6-21-73	S. RAOFF
18	6-21-73	S. RAOFF
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QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV K				
	DEC6534D	MPS6534		
	IN746A 3.3V	SAME	DEC44C3	
	IN4001	SAME	IN759 S	SAME
	D670	IN3653		
	D664	IN3608		
	DEC6531	MPS6531		
	DEC2219	2N2219		
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
SHEET 1 OF 3				

digital EQUIPMENT CORPORATION
DISK ENG. CONTROL + INTERLOCK

ITEM NO. M7701-O-1 P

SHEET 1 OF 3
 DISK M7701-O-1
 REV. P

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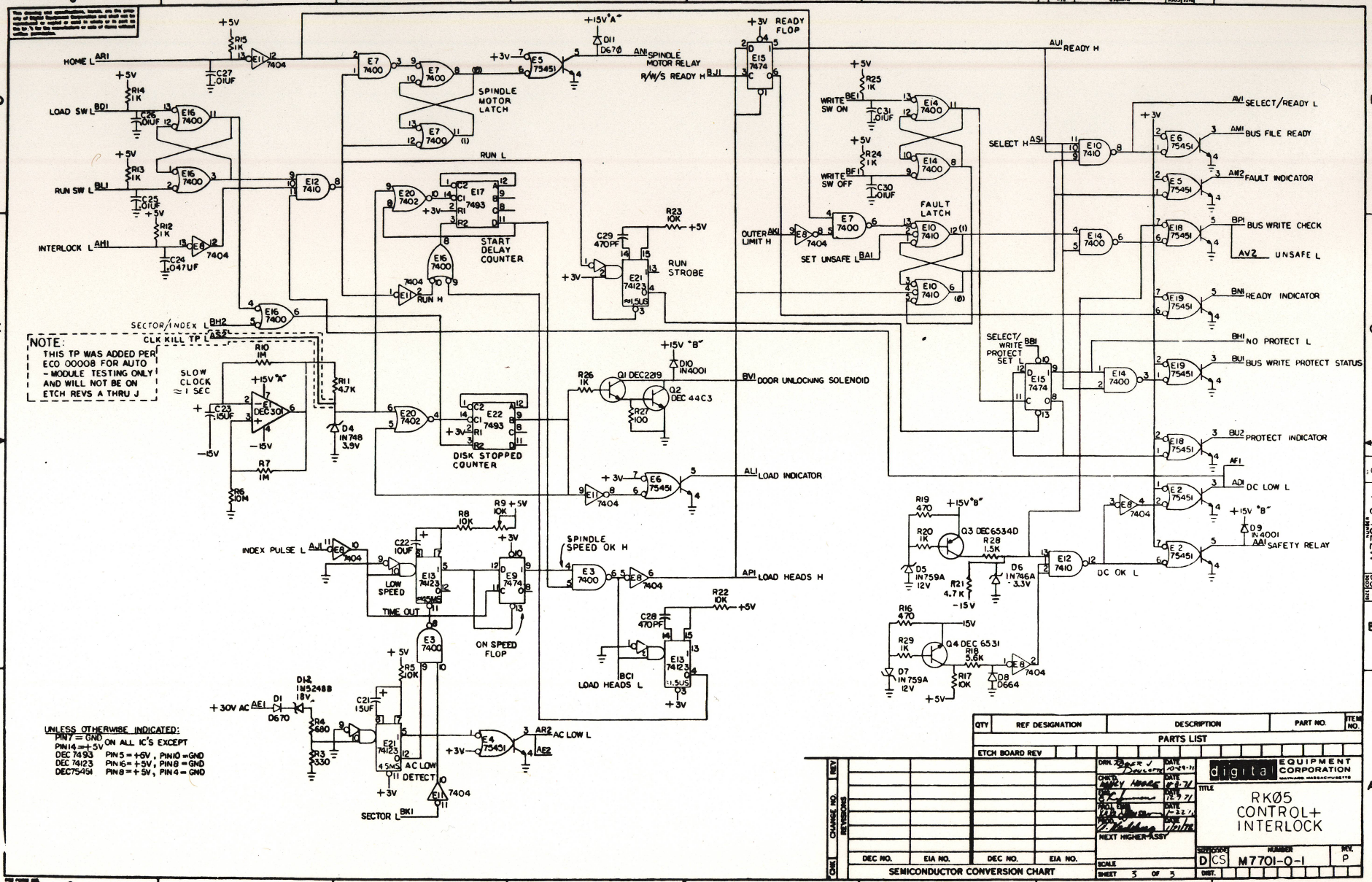
D
C
B
A

	I-V COORDINATE HOLE LOCATION	K-CO-W7701-0-4	1
	ASST/DRILLING HOLE LAYOUT	E-AH-W7701-0-5	2
	MODULE ECO HISTORY	B-MH-W7701-0-6	3
	ETCHED CIRCUIT BOARD	5009714	4
25	C1-C20, C25-C27, C30, C31	CAP. 01 UF, 100V, 20% DISC	1001810
1	C21	CAP. .15 UF, 20V, 20%, TANT	1004812
1	C22	CAP. .10 UF, 20V, 20%, TANT	1004513
1	C23	CAP. .15 UF, 35V, 20%, TANT	1002180
2	C28, C29	CAP. 470 PF, 100V, 5% OM	1000024
1	D8	DIODE, 0M64	1100114
2	D1, D11	DIODE, 0B70	1102182
2	D9, D10	DIODE, 1M4001	1102842
1	D8	DIODE, 1M748A, 3.3V	1104880
1	D4	DIODE, 1M748, 3.9V	1100121
2	D5, D7	DIODE, 1M758S, 12V	1110843
A/R		GRIPLETS	1210244-0
1	R27	RES. 100 OHMS, 1/8 W, 5%	1300229
2	R2, R3	RES. 330 OHMS, 1/8 W, 5%	1300295
2	R16, R19	RES. 470 OHMS, 1/8 W, 5%	1300318
1	R1	RES. 750 OHMS, 1/8 W, 5%	1301401
9	R12, R13, R15, R20, R24, R25, R26, R29, R14	RES. 1K, 1/8 W, 5%	1300385
1	R28	RES. 1.5K, 1/8 W, 5%	1300381
1	R4	RES. 680 OHMS, 1/8 W, 5%	1301424
2	R11, R21	RES. 47K, 1/8 W, 5%	1300447
1	R18	RES. 5.6K, 1/8 W, 5%	1301874
5	R5, R8, R17, R22, R23	RES. 10K, 1/8 W, 5%	1300478
			27
			28
2	R7, R10	RES. 1W, 1/8 W, 5%	1309595
1	R6	RES. 10 W, 1/8 W, 5%	1302888
1	R9	RES. 10 K, 1/8 W, 10%, 78 PR	1309143-10
1	Q4	TRANSISTOR, DEC 8531	1509338
1	Q1	TRANSISTOR, DEC 2219	1501881
1	Q3	TRANSISTOR, DEC 85340	1503409-00
1	Q2	TRANSISTOR, DEC 44C3	151671
4	E3, E7, E10, E14	I.C., DEC 7400	1905575
1	E20	I.C., DEC 7402	1909004
2	E11, E8	I.C., DEC 7404	1909886
2	E12, E10	I.C., DEC 7410	1905578
2	E9, E15	I.C., DEC 7474	1905547
2	E22, E17	I.C., DEC 7493	1909054
2	E21, E13	I.C., DEC 74123	1910436
6	E2, E4, E6, E5, E18, E19	I.C., DEC 75451	1910206
1	E1	I.C., DEC 301	1910282
4		EYELET #GSL-7	9008732
2		HANDLE FLIP CHIP - MAGENTA	9008337-08
1		SCREW #4-40 X 5/16	9008010-1
1		MUT. KEP #4-40	9008557
1	D12	DIODE, 1M5248B, 18V, 5%	1110786
1	C24	CAP. .047 UF, 18V, DISC	1009878

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
		TITLE DISK ENG. CONTROL +INTERLOCK	SIZE CODE	NUMBER
		SCALE	SHEET 2 OF 3	DIST

REVISIONS		
CHK	CHANGE NO.	REV.

DISK M7701-0-1

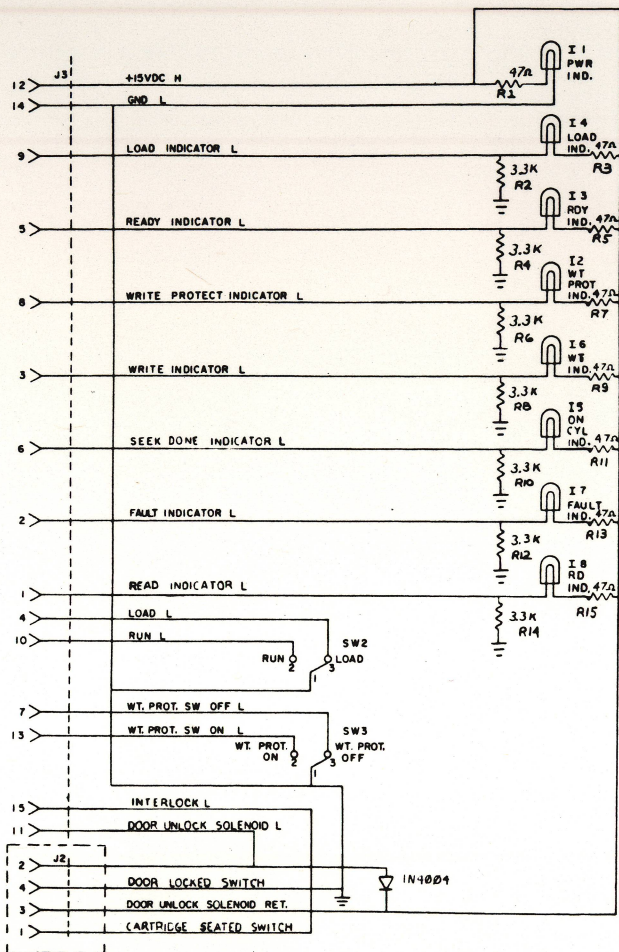


NOTE:
THIS TP WAS ADDED PER
ECO 00008 FOR AUTO
MODULE TESTING ONLY
AND WILL NOT BE ON
ETCH REVS A THRU J

UNLESS OTHERWISE INDICATED:
PIN7 = GND ON ALL IC'S EXCEPT
PIN14 = +5V
DEC 7493 PIN5 = +5V, PIN10 = GND
DEC 74123 PIN6 = +5V, PIN8 = GND
DEC 74541 PIN8 = +5V, PIN4 = GND

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
DIGITAL EQUIPMENT CORPORATION				
RK05 CONTROL + INTERLOCK				
NEXT HIGHER ASSY				
SCALE				
SHEET 5 OF 5				
SEMICONDUCTOR CONVERSION CHART				
UNIT: P				

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1973 BY DIGITAL EQUIPMENT CORPORATION



REV. F
PART CODE NUMBER
C CS 5409698-0-1

REV.	DATE	BY	DESCRIPTION
1	11-20-71	S. COPPER	ORIGINATOR
2	1-23-72
3	4-14-71
4	5-20-71
5	5-20-71
6	5-20-71
7	5-20-71
8	5-20-71
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11	5-20-71
12	5-20-71
13	5-20-71
14	5-20-71
15	5-20-71

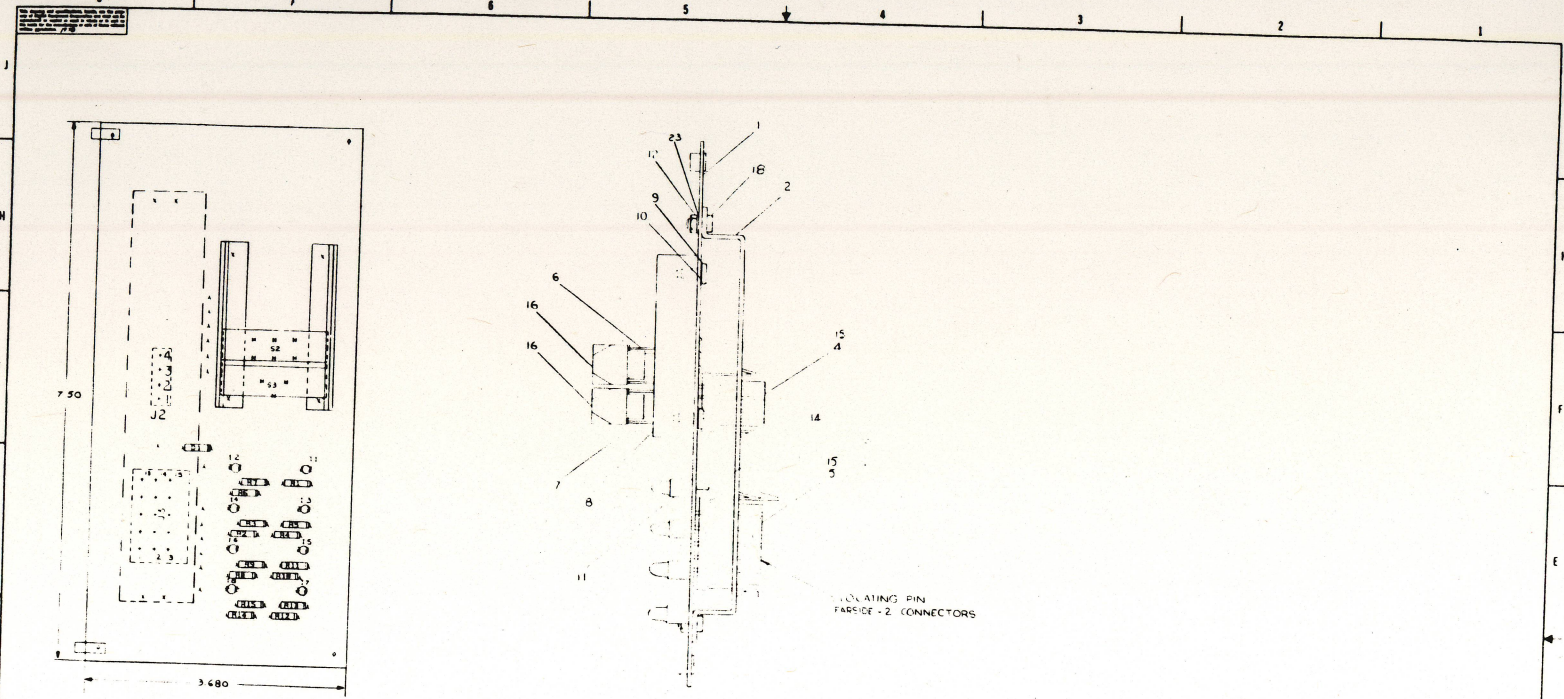
TRANSISTOR & DIODE CONVERSION CHART			
DATE	BY	DATE	BY
DEC 71	EIA	DEC 71	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: **RK05 CONTROL PANEL**

SIZE: C CODE: CS NUMBER: 5409698-0-1 REV: F

PRINTED CIRCUIT REV: E-1, E-2

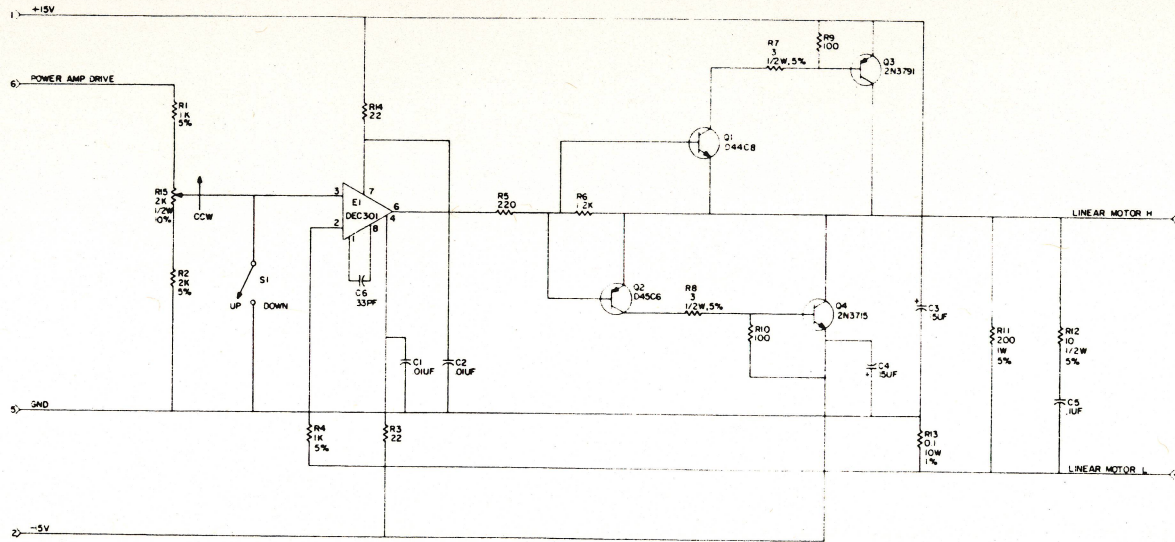
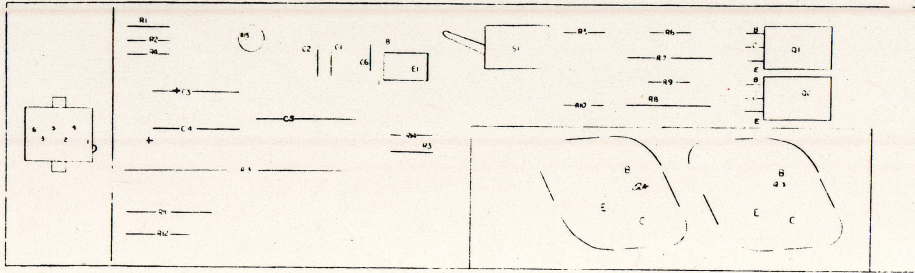


C. TYPE	QTY	REV	DATE	BY	CHKD	APP'D	DATE	BY	CHKD	APP'D	DATE

NO	DESCRIPTION	QTY	UNIT	REMARKS
1	MACHINES	2		
2	WASHERS	2		
3	RESISTORS			
4	CONNECTORS			
5	TERMINALS			
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ITEM	DESCRIPTION	QTY	UNIT	REMARKS
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THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE
CALCULATIONS AND PROVISIONS FOR WIRE SIZE AND SPACING ARE RELATED ACCORDINGLY.
COMPONENT (S) IN DIGITAL EQUIPMENT CORPORATION



UNLESS OTHERWISE INDICATED:
RES ARE 1/4W, 10%
R3 IS A CURRENT SAMPLING RES.

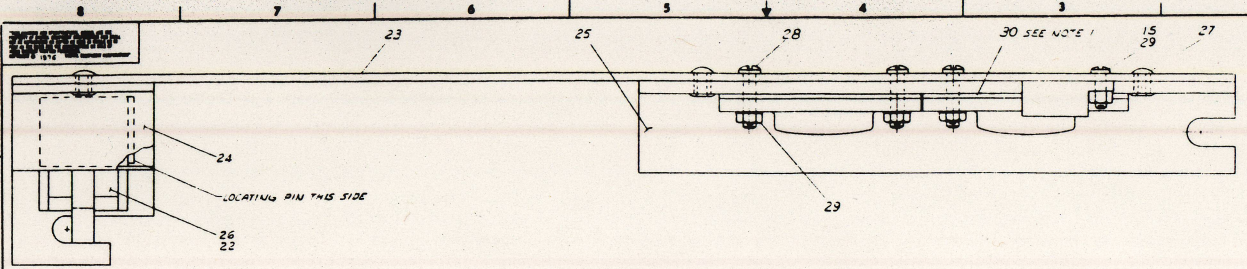
REV.	DATE	BY	CHKD.	APP.
1	12/1/72	J. J. [unclear]	[unclear]	[unclear]
2	12/1/72	[unclear]	[unclear]	[unclear]
3	12/1/72	[unclear]	[unclear]	[unclear]
4	12/1/72	[unclear]	[unclear]	[unclear]
5	12/1/72	[unclear]	[unclear]	[unclear]
6	12/1/72	[unclear]	[unclear]	[unclear]
7	12/1/72	[unclear]	[unclear]	[unclear]
8	12/1/72	[unclear]	[unclear]	[unclear]
9	12/1/72	[unclear]	[unclear]	[unclear]
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11	12/1/72	[unclear]	[unclear]	[unclear]
12	12/1/72	[unclear]	[unclear]	[unclear]
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14	12/1/72	[unclear]	[unclear]	[unclear]
15	12/1/72	[unclear]	[unclear]	[unclear]

REV.	DATE	BY	CHKD.	APP.
1	12/1/72	[unclear]	[unclear]	[unclear]
2	12/1/72	[unclear]	[unclear]	[unclear]
3	12/1/72	[unclear]	[unclear]	[unclear]
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6	12/1/72	[unclear]	[unclear]	[unclear]
7	12/1/72	[unclear]	[unclear]	[unclear]
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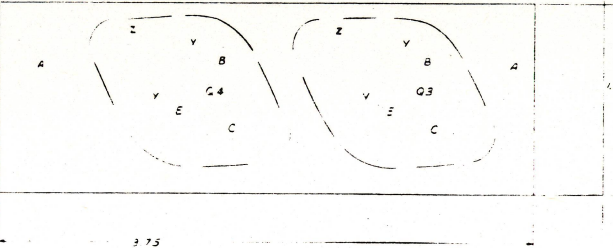
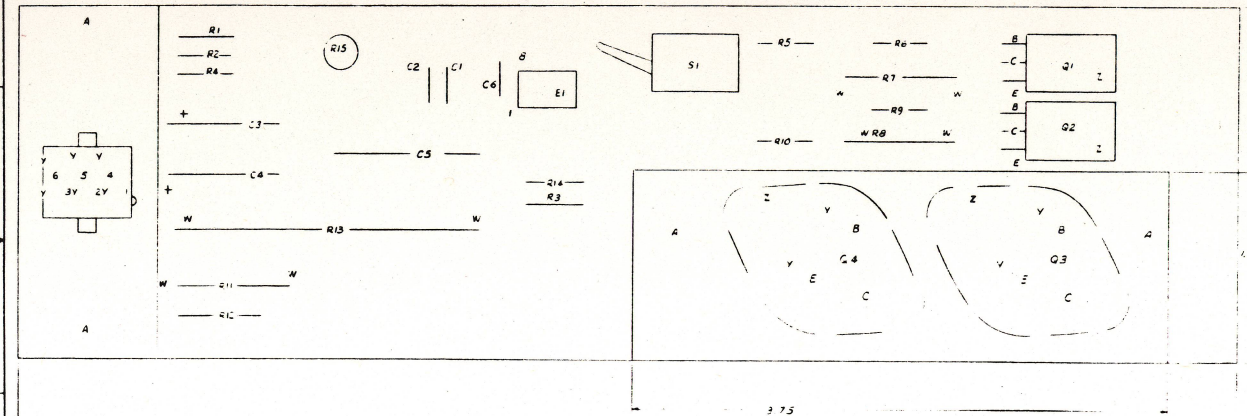
TRANSISTOR & DIODE CONVERSION CHART	
TRANSISTOR	DIGITAL EQUIPMENT CORPORATION
2N44CB	2N44CB
2N3751	2N3751
741	741

digital EQUIPMENT CORPORATION
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TITLE	DATE	ISSUE	REV.	APP.
DECPAK HEAD POS SERVO PWR AMP				
NUMBER	1	DATE		
REV.	D	CS	H604-0-1	K



NOTES
 1. BODY THERMAL JOINT COUPLING
 ITEM 31 BETWEEN TUBES TOES
 2. 30 AND 31 AND 32 AND 33 AND 34
 BETWEEN TUBES TOES AND
 BOLDED PART FOR ITEM 23



2.44 REF

3.75

5.544 FEI

1	RESISTOR	100K	1/4W	100K
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34	RES	100K	1/4W	100K
35	RES	100K	1/4W	100K
36	RES	100K	1/4W	100K
37	RES	100K	1/4W	100K
38	RES	100K	1/4W	100K
39	RES	100K	1/4W	100K
40	RES	100K	1/4W	100K
41	RES	100K	1/4W	100K
42	RES	100K	1/4W	100K
43	RES	100K	1/4W	100K
44	RES	100K	1/4W	100K
45	RES	100K	1/4W	100K
46	RES	100K	1/4W	100K
47	RES	100K	1/4W	100K
48	RES	100K	1/4W	100K
49	RES	100K	1/4W	100K
50	RES	100K	1/4W	100K

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

QUANTITY

SCALE

DATE

BY

CHECKED

APPROVED

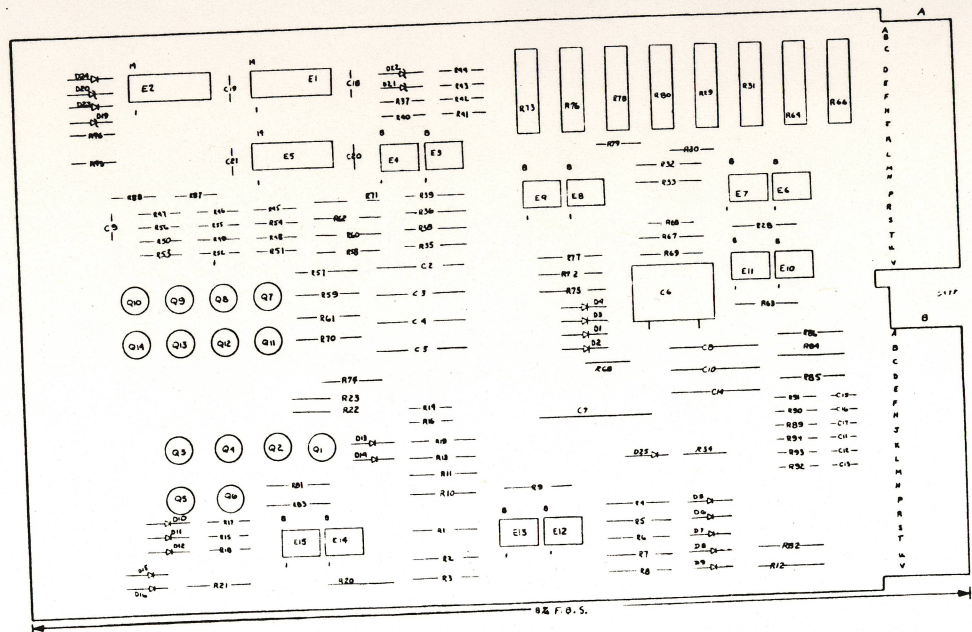
HEAD POSITION
 SERVO POWER AMP

8	8	Q1 THRU Q4, Q11 THRU Q14	TRANSISTOR 2N5245	1509601	49	REF	REF
6	6	Q5 THRU Q10	TRANSISTOR DEC 65340	1503409-00	50	REF	REF
1	1	E1	I.C. DEC 7404	1909686	51	REF	REF
1	1	E2	I.C. DEC 7413	1909989	52	1	1
2	2	E3, E4	I.C. DEC 301	1910282	53	4	C2, C3, C4, C5
1	1	E5	I.C. DEC 7400	1905573	54	1	C6
7	7	E7, E8, E11 THRU E15	I.C. DEC 72741	1910298-00	55	1	C7
4	4		EYELET #654-7	9006732	56	3	C8, C10, C14
2	2		HANDLE, FLIP CHIP GREEN	9008337-01	57	11	E9, C11, C12, C13, C15 THRU C17
			GAPLET	1210244-0	58	7	D1 THRU D4, D23 THRU D27
			RES 200K, 1/4W, 1%	1305336	59	10	D5 THRU D14
			RES 137K, 1/4W, 1%	1305442	60	2	D15, D16
			RES 30.9K, 1/4W, 1%	1304855	61	4	D19 THRU D22
			RES 2.94K, 1/4W, 1%	1301981	62	7	R1, R15, R17, R46, R49, R52, R53
			I.C. DEC 72741	1910298-01	63		

X	Y	COORDINATE HOLE LOCATION	K-CO-6938-0-4	1
		ASSY/DRILLING HOLE LAYOUT	E-AN-6938-0-5	2
		MODULE ECO HISTORY	B-AN-6938-0-6	3
		ETCHED CIRCUIT BOARD	5009388	4
		CAR. DIS UP 50V 2% POLY CARB	1010646	5
		CAR 8200 PF 100V MICA	1000061	6
		CAR 022 UF 100V 10% NYLAR	1002323	7
		CAR 15UF 20V 10% S. TANT	1004812	8
		CAR 01UF 100V 20% DISC	100610-01	9
		DIODE D662	1100113	10
		DIODE D664	1100114	11
		DIODE IN75BA 10V	1100125	12
		DIODE IN796A	1104860	13
		RES 15K 1/4W 5%	1300496	14
		RES 13.3K 1/4W 1% MF	1312545	15
		RES 3.09K 1/8W 1% MF	1304855	16
		RES 34.8K 1/8W 1% MF	1303156	17
		RES 68.1K 1/8W 1% MF	1305252	18
		RES 34.8K 1/8W 1% MF	1303156	19
		RES 21.5K 1/8W 1% MF	1303155	20
		RES 11.5K 1/8W 1% MF	1304415	21
		RES 21.5K 1/8W 1% MF	1303155	22
		RES 34.8K 1/8W 1% MF	1305128	23
		RES 11.5K 1/8W 1% MF	1304415	24
		RES 2.76K 1/8W 1%	1104864	25
		RES 5.62K 1/8W 1%	1305128	26
		RES 10K 1/8W 1% MF	1303312	27
		R9, R57, R59, R61, R70	1304419	28
		R10, R12, R32, R33, R35, R36, R38, R39, R67, R69, R81, R83	1304470	29
		R12, R72	1304856	30
		R13, R19		
		R14, R16, R43, R44, R45, R48, R51, R54, R68	1300391	31
		R18, R47, R50, R53, R56	1300444	32
		R20	1304412	33
		R21	1304413	34
		R21	1300426	35
		R22	1304857	36
		R23, R30, R41, R42, R63, R71	1304431-00	37
		R24, R64, R73, R76, R78	1304433-08	38
		R31, R66, R80	1300295	39
		R37, R40, R87	1302411	40
		R38, R60, R62, R71, R82	1304418	41
		R75	1300168	42
		R84, R85	1304444	43
		R86	1304449	44
		R89, THRU R99	1301401	45
		R88	1304838	46
		R28, R63, R77	1305108	47
		R74	1300479	48
		R34, R45, R46		

NOTES:

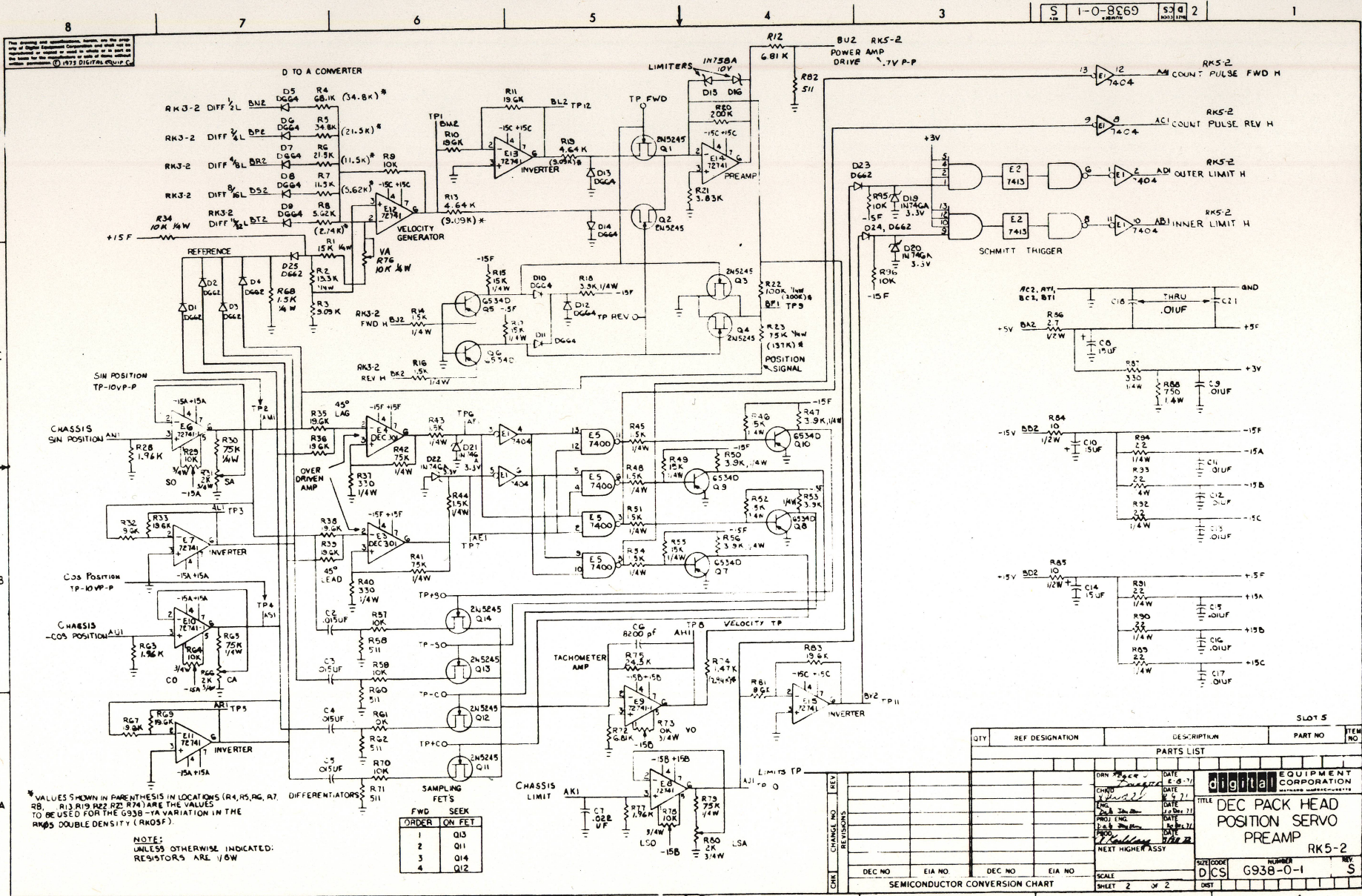
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72741	SEE SHT 2
LM301	SEE SHT 2
IC TYPE GND +5V	
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIIONS ARE STATED ABOVE	
IC PIN LOCATIONS	

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
FIRST USED ON: OPTION MODEL				
ETCH BOARD REV: K				
DATE	BY	DATE	BY	DATE
10-13-71	SM	10-13-71	SM	10-13-71
10-13-71	SM	10-13-71	SM	10-13-71
10-13-71	SM	10-13-71	SM	10-13-71
10-13-71	SM	10-13-71	SM	10-13-71
10-13-71	SM	10-13-71	SM	10-13-71
NEXT HIGHER ASSY				
DEC NO	EIA NO	DEC NO	EIA NO	
SEMICONDUCTOR CONVERSION CHART				
65340	NONE			
2N5245				
D662	N645			
D664	N3606			
1746A	SAME			





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VALUES SHOWN IN PARENTHESIS IN LOCATIONS (R4, R5, R6, R7, R8, R13, R19, R22, R74) ARE THE VALUES TO BE USED FOR THE G534D VARIATION IN THE R405 DOUBLE DENSITY (RK05F).
NOTE: UNLESS OTHERWISE INDICATED: RESISTORS ARE 1/8W

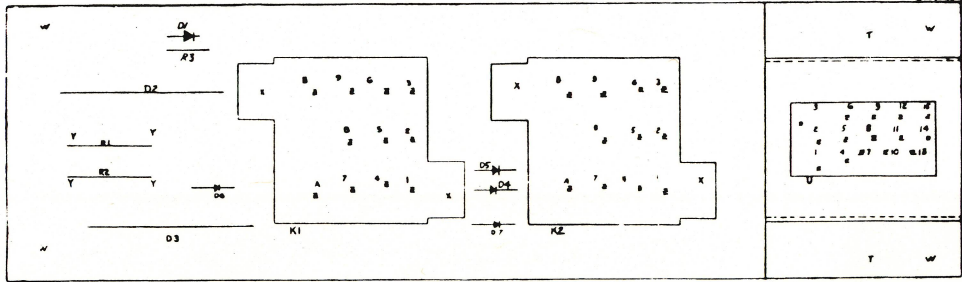
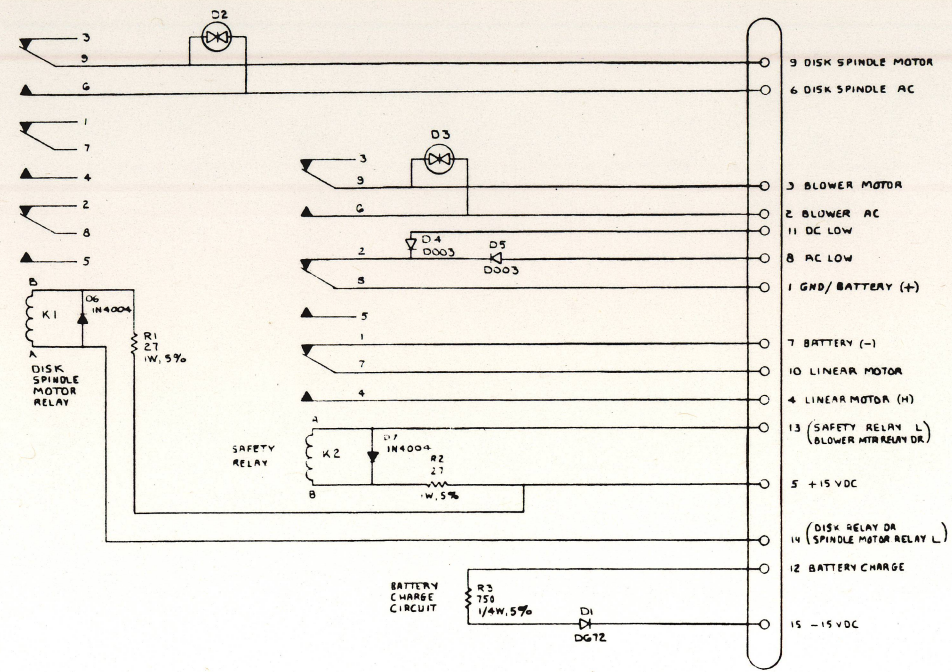
ORDER	FWD	SEEK
1	Q13	Q11
2	Q11	Q14
3	Q14	Q12
4	Q12	

QTY		REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO																																			
PARTS LIST																																								
<table border="1"> <tr> <td>DRN</td> <td>DATE</td> <td>BY</td> <td>DATE</td> <td>REV</td> </tr> <tr> <td>CHND</td> <td>6/27/71</td> <td>WJ</td> <td>6/27/71</td> <td>1</td> </tr> <tr> <td>PRJ</td> <td>DATE</td> <td>BY</td> <td>DATE</td> <td>REV</td> </tr> <tr> <td>PRJ</td> <td>6/27/71</td> <td>WJ</td> <td>6/27/71</td> <td>1</td> </tr> <tr> <td>PRJ</td> <td>DATE</td> <td>BY</td> <td>DATE</td> <td>REV</td> </tr> <tr> <td>PRJ</td> <td>6/27/71</td> <td>WJ</td> <td>6/27/71</td> <td>1</td> </tr> <tr> <td colspan="5">NEXT HIGHER ASSY</td> </tr> </table>						DRN	DATE	BY	DATE	REV	CHND	6/27/71	WJ	6/27/71	1	PRJ	DATE	BY	DATE	REV	PRJ	6/27/71	WJ	6/27/71	1	PRJ	DATE	BY	DATE	REV	PRJ	6/27/71	WJ	6/27/71	1	NEXT HIGHER ASSY				
DRN	DATE	BY	DATE	REV																																				
CHND	6/27/71	WJ	6/27/71	1																																				
PRJ	DATE	BY	DATE	REV																																				
PRJ	6/27/71	WJ	6/27/71	1																																				
PRJ	DATE	BY	DATE	REV																																				
PRJ	6/27/71	WJ	6/27/71	1																																				
NEXT HIGHER ASSY																																								
TITLE: DEC PACK HEAD POSITION SERVO PREAMP RK5-2				PART CODE: DCS NUMBER: G938-0-1 REV: S																																				
SEMICONDUCTOR CONVERSION CHART SCALE: SHEET 2 OF 2																																								

938-0-1
 DCS

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



REVISIONS

NO.	DATE	DESCRIPTION
1	1/17/75	INITIAL DESIGN
2	1/21/75	DESIGN CHANGES
3	1/21/75	DESIGN CHANGES
4	1/21/75	DESIGN CHANGES
5	1/21/75	DESIGN CHANGES
6	1/21/75	DESIGN CHANGES
7	1/21/75	DESIGN CHANGES
8	1/21/75	DESIGN CHANGES
9	1/21/75	DESIGN CHANGES
10	1/21/75	DESIGN CHANGES

SEMICONDUCTOR CONVERSION CHART

DEC NO	EIA NO	DEC NO	EIA NO
D003	IN994		
D672	IN3653		

DT#	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
ETCH BOARD REV F				
DATE 12-9-71		DIGITAL EQUIPMENT CORPORATION		
DATE 12-9-71		TITLE DEC PACK MOTOR RELAYS		
DATE 12-9-71		DRAWN BY J. J. JENSEN		
DATE 12-9-71		CHECKED BY J. J. JENSEN		
DATE 12-9-71		PROJ ENG BY J. J. JENSEN		
DATE 12-9-71		PROD BY J. J. JENSEN		
NEXT HIGHER ASSY		SCALE		
SHEET 1 OF 1		PART CODE DICS 5409574-0-1		
DATE		REV H		

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

QUANTITY / VARIATION

NOTES:

MADE BY	Lora Metzger	CHECKED	<i>H. Donofrio</i>	SECTION
DATE	2/2/76	DATE	4 FEB 76	
ENG	<i>J. J. ...</i>	PROD	<i>Jack ...</i>	ISSUED SECTION
DATE	25 FEB 76	DATE	25 FEB 76	

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QTY	VAR	REF. DESIGNATION
20	1910155-00		IC 7408	1		E24
21	1910436-00		IC 74123	1		E3
22	1910651-00		IC 74175	2		E30, E32
23	1910655-00		IC 74157	1		E8
24	1910878-00		IC 7427	1		E16
25	1911469-00		IC 8640	2		E27, E31
26	23138A1-00		IC 8223	1		E18,
27	23139A1-00		IC 8223 (NOT TO BE INSERTED)	1		E1,
28			IC (SPARE)			E14, E2
29	1211164-0D		SW, RKR 4 IN A DIP	1		S1
30	1211813-02		SOCKET IC 16 PIN	2		XE1, XE2
31	9008337-06		HANDLE, FLIP-CHIP, MAGENTA	2		
32	9006732-00		EYELET	4		
33	23137A1-00		IC	1		E19
34	23136A1-00		IC	1		E20
35	3105140-55		WIRE, #30 AWG, GRN	DR		
36	1301322-00		RES 180 OHM 1/4W 5%	1		R25
37	1000023-00		CAP 330 PF 100V 5%	1		C36
38	3105340-55		WIRE #30 AWG GREEN	R/R		

ECO. NO.

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TITLE
CYLINDER ADDRESS AND DIFFERENCE

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

SIZE CODE
B PL
NUMBER
M7681-0-0
REV.
E

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY Lora Metzger
 DATE 2/2/76
 ENG [Signature]
 DATE 25 FEB 76

CHECKED [Signature]
 DATE 4 FEB 76
 PROD [Signature]
 DATE 25 FEB 76

SECTION
 ISSUED SECTION

QUANTITY / VARIATION

NOTES:

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

E.C.O. NO.
 00002
 00003
 00004
 00005

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TITLE
 CYLINDER ADDRESS AND DIFFERENCE

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

SIZE CODE
 B PL
 NUMBER
 M7681-0-0
 DIST

REV.
 E

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS ACCESSORY LIST

MADE BY Lora Metzger
 DATE 18 MAY 76
 ENG
 DATE W. Nelson 5/19/76
 CHECKED T. Quillen
 DATE 18 MAY 76
 PROD J. Lynch 5/16/76
 DATE ISSUED SECT.

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	RK05F-0	CUSTOMER INT SET (B-DD-RK05F-C SHEET 1)	1 1
2	DEC-00-001-1	MAINTENANCE MANUAL	1 1
3	DEC-00-RK5JF-DA	MAINTENANCE MANUAL	1 1
4	BC 11A-08	UNIBUS CABLE 8 FEET	1 1
5	2200007	HEAD CLEANING KIT	1 1
6	3013079-00	DISK CARTRIDGE 12 SECTOR	1 0
7	3013079-02	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 ITEMS 10 AND 11 ARE ADDITIONALLY REQUIRED)	ASSY LINE 1 1
		NOTE:	
		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**	7415710	DRIVE IDENTIFICATION NUMBERS	1 1
		*NOTE: IF UNIT IS SHIPPED IN A RACK, ITEMS 8 & 9 ARE MOUNTED TO THE RACK.	
		**NOTE: ATTACH THE DRIVE IDENTIFICATION NUMBER SET TO THE INSTRUCTION SHEET #DEC-16-(179)-1094-N573 USING TRANSPARENT ADHESIVE TAPE. INSERT BEHIND FRONT COVER OF MAINTENANCE MANUAL	
		CARTRIDGE RETAINING SPRING	
13	1212973		2 2

TITLE
 DECPACK ASSEMBLY

SIZE CODE
 ASSY NO.

A PL

NUMBER
 RK05F-0-17

REV
 ECO NO
 RK05F-00001
 A

DEC FORM DEC 16 (325) 1031-NR70
 DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS ACCESSORY LIST

MADE BY Lora Metzger
 DATE 18 MAY 76
 ENG
 DATE W. Nelson 5/19/76
 CHECKED T. Quillen
 DATE 18 MAY 76
 PROD J. Lynch 5/16/76
 DATE ISSUED SECT.

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
14	1213078	CARTRIDGE DOOR WEDGE	1 1
		***NOTE: MAXIMUM TOTAL CABLE LENGTH = 50 FEET	

TITLE
 DECPACK ASSEMBLY

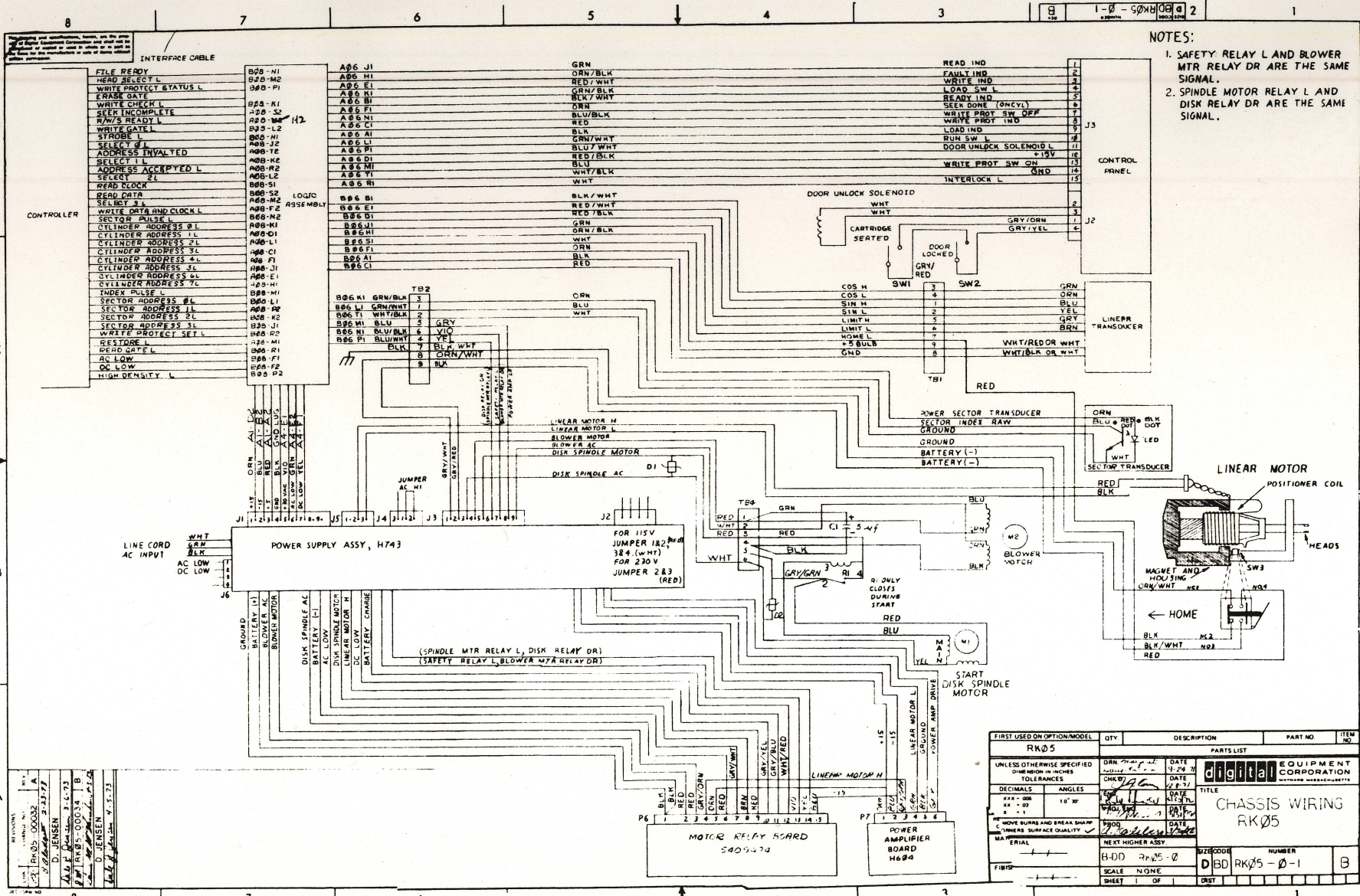
SIZE CODE
 ASSY NO.

A PL

NUMBER
 RK05F-0-17

REV
 ECO NO
 RK05F-00001
 A

DEC FORM DEC 16 (325) 1031-NR70
 DRA 110



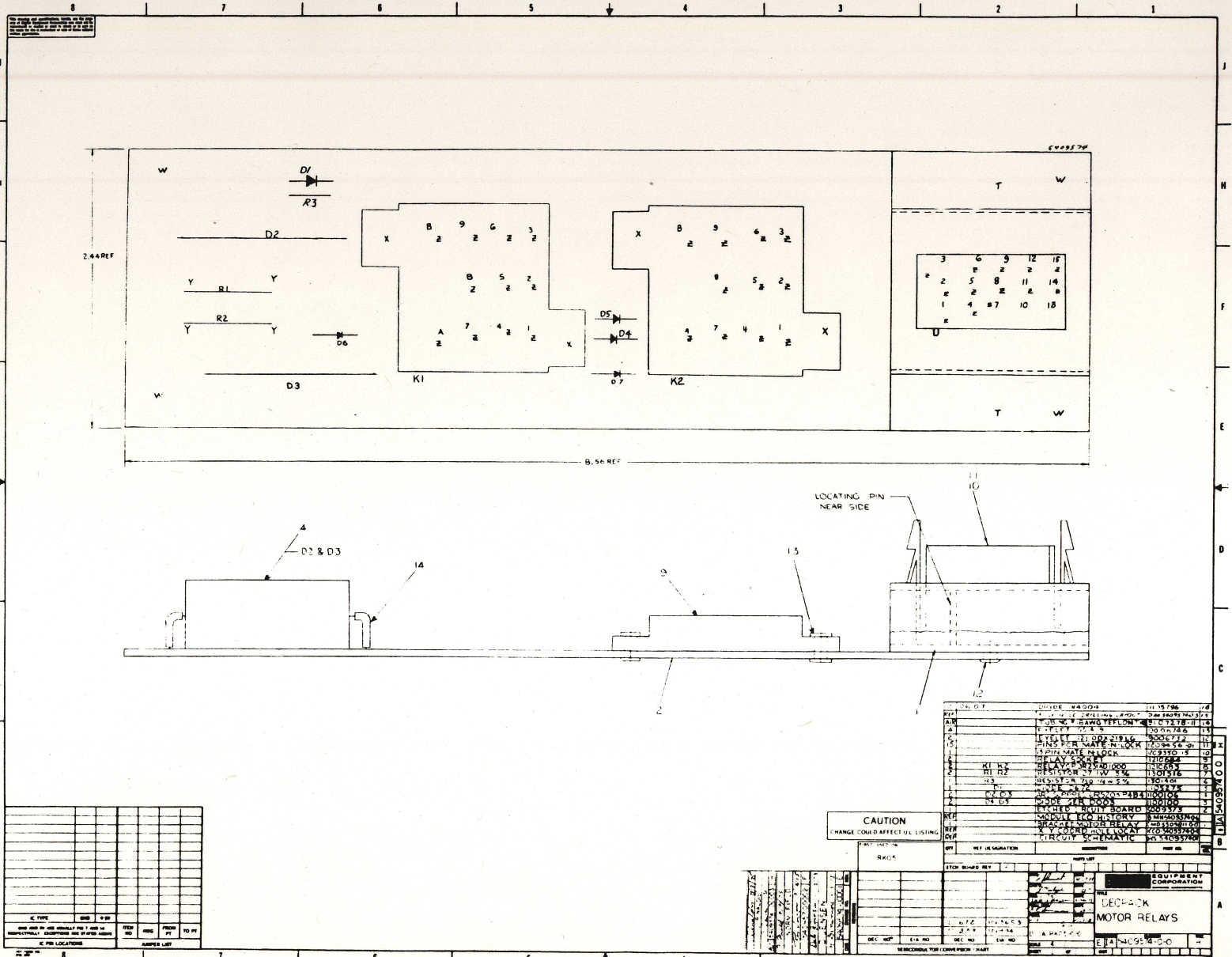
REVISIONS

1	PK05-0003	A
2	1-10-68	2-13-77
3	D. JENSEN	3-6-73
4	ALL	3-6-73
5	PK05-0003	B
6	1-10-68	4-15-73
7	D. JENSEN	4-15-73

FIRST USED IN OPTION/MODEL	QTY	DESCRIPTION	PARTS LIST	PART NO.	ITEM NO.
RK05					
UNLESS OTHERWISE SPECIFIED					
DIMENSION IN INCHES		DATE	PARTS LIST		
TOLERANCES		DATE	digital EQUIPMENT CORPORATION		
DECIMALS	ANGLES	DATE	TITLE		
±.001	10'	DATE	CHASSIS WIRING		
±.002		DATE	RK05		
±.005		DATE	SIZE CODE		
±.010		DATE	NUMBER		
REMOVE BURRS AND BREAK SHARP EDGES SURFACE QUALITY		DATE	B-00		
MAINTAIN		DATE	SCALE		
ERIAL		DATE	NONE		
FIBER		DATE	SHEET		
		DATE	OF		
		DATE	DRY		

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.



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K TYPE				REV. DATE				REV. DATE			
K TYPE				REV. DATE				REV. DATE			
K TYPE				REV. DATE				REV. DATE			
K TYPE				REV. DATE				REV. DATE			
K TYPE				REV. DATE				REV. DATE			

CAUTION
CHANGE COULD AFFECT UL LISTING

QTY	DESCRIPTION	REV. DATE	REV. DATE
1	MODULE #40004	11/15/78	1/2
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13
1	RELAY MOTOR RELAY	02M1605	1/13

BECHPAK
MOTOR RELAYS

REV. DATE	REV. DATE	REV. DATE	REV. DATE
REV. DATE	REV. DATE	REV. DATE	REV. DATE
REV. DATE	REV. DATE	REV. DATE	REV. DATE
REV. DATE	REV. DATE	REV. DATE	REV. DATE
REV. DATE	REV. DATE	REV. DATE	REV. DATE

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

ETCH REV B

QUANTITY / VARIATION

NOTES:

MADE BY K. HODGSON
 DATE 3 FEB 76
 ENG [Signature]
 DATE FEB 76

CHECKED [Signature]
 DATE 3 FEB 76
 PROD Jack Savatich
 DATE 25 FEB 76

SECTION
 ISSUED SECTION

ITEM NO	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION										REF. DESIGNATION	
				M7680-0	M7680-YA										
39	1910878-00		IC 7427	1	1										E4
40	1211164-00		SWITCH 4 IN A DIP	1	1										SW1
41	9008337-06		HANDLE FLIP CHIP-MAGENTA	2	1										
42	9006732-00		EYELET	4	4										
43			SPARE IC												E10
44	C-IA-7014164-0-0		CABLE ASSY, REMOTE SWITCH	-	1										SWC
45	1202704		CLAMP, CABLE	-	1										

E.C.O. NO

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TITLE
 DEC PAK INDEX SECTOR

ASSY NO.
 D-UA-M7680-0-0
 SHEET 3 OF 3

SIZE CODE
 B PL
 NUMBER
 M7680-0-0
 REV.
 C

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

ETCH REV B

MADE BY K. HODGSON
DATE 3 FEB 76
ENG
DATE

CHECKED *H. Van Buren*
DATE 3 FEB 76
PROD *Jack J. ...*
DATE 25 FEB 76

SECTION
ISSUED SECTION

QUANTITY / VARIATION

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												REF. DESIGNATION
				M7680-0	M7680-YA											
20	1300479-00		RES 10K 1/4W 5%	3	3											R3,R7,R18
21	1301401-00		RES 750, 1/4W 5%	1	1											R11
22	1301808-00		RES 22K 1/4W 5%	1	1											R9
23	1309143-00		RES 10K 3/4W 10% POT	1	1											R6
24	1302394-00		RES 30K 1/4W 5%	3	3											R14,R15,R8
25	1302465-00		RES 18K 1/4W 5%	1	1											R13
26	1502762-01		TRANSISTOR 3639C	1	1											Q1
27	1905547-00		IC 7474	1	1											E21
28	1905575-00		IC 7400	2	2											E15,E16
29	1905576-00		IC 7410	1	1											E14
30	1909054-00		IC 7493	2	2											E8,E9
31	1911469-00		IC 8640	2	2											E19,E23
32	1909686-00		IC 7404	1	1											E18
33	1910043-00		IC 74145	1	1											E20
34	1910230-00		IC 74121	1	1											E11
35	1910645-00		IC 75452	7	7											E1 THRU E3,E6,E7,E12,E13
36	1910436-00		IC 74123	3	3											E17,E22,E25
37	1905590-00		IC 7401	1	1											E24
38	1909004-00		IC 7402	1	1											E5

ECO. NO.

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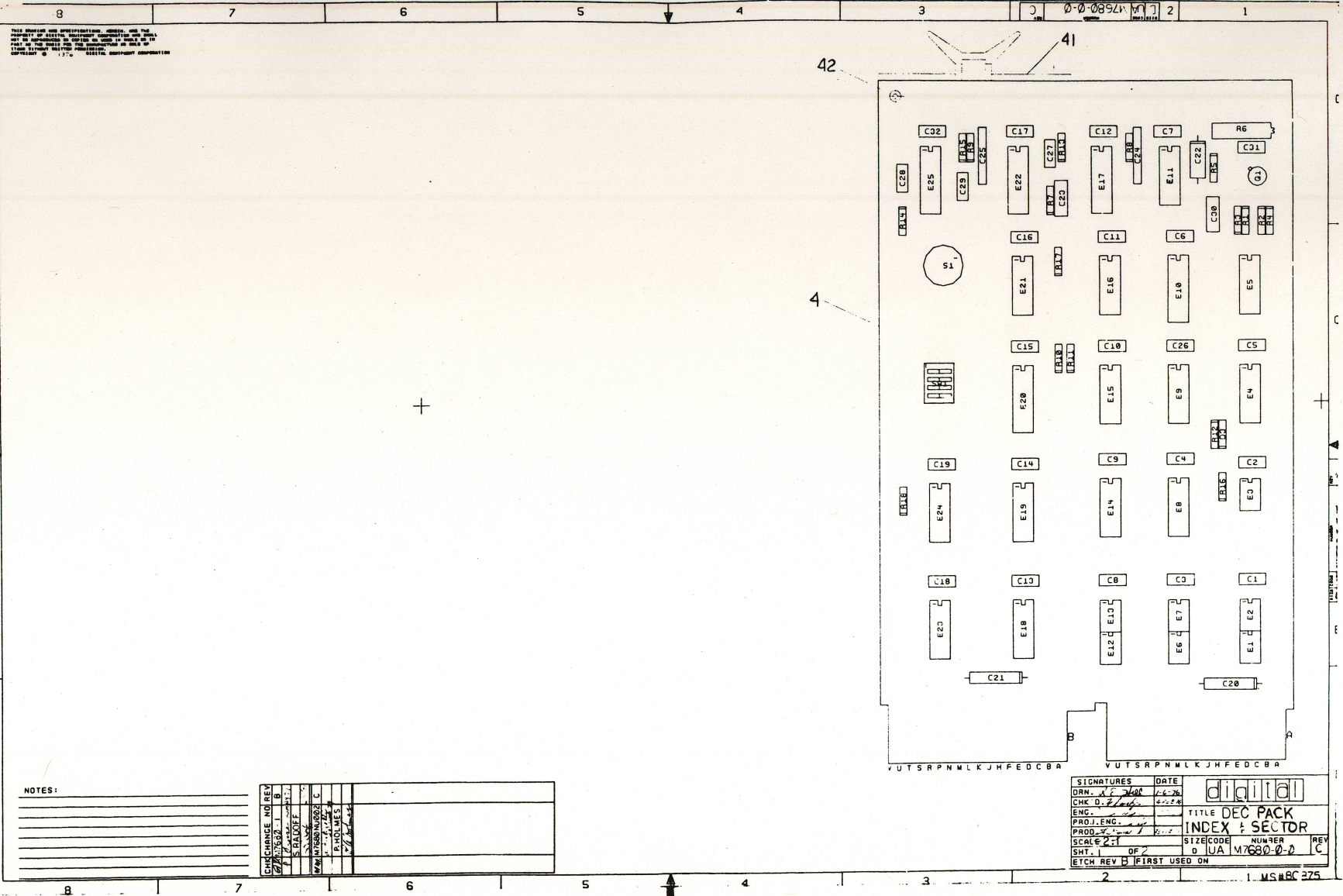
TITLE
DEC PAK INDEX SECTOR

ASSY NO.
D-UA-M7680-0-0
SHEET 2 OF 3

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

REV.
C

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NOTES:

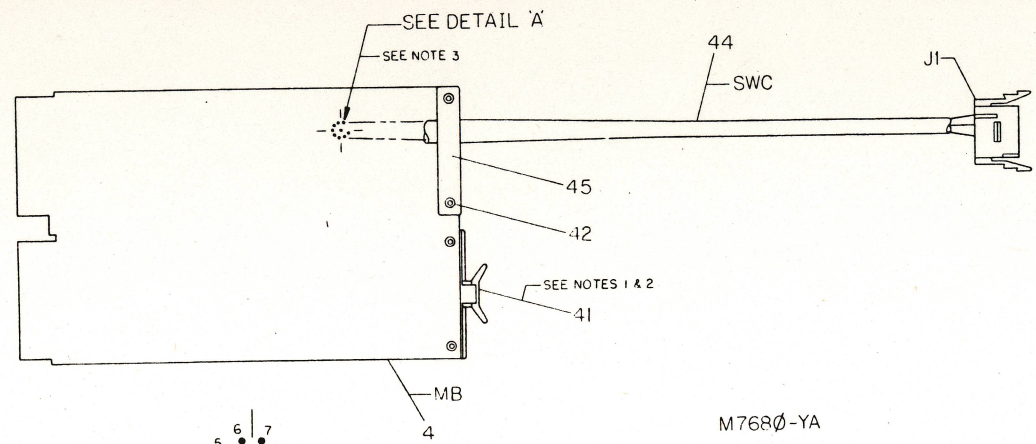
CHK/CHANGE NO	REV	DATE
07/15/52	1	B
1	2	11/15/52
2	3	11/15/52
3	4	11/15/52
4	5	11/15/52
5	6	11/15/52
6	7	11/15/52
7	8	11/15/52
8	9	11/15/52
9	10	11/15/52
10	11	11/15/52
11	12	11/15/52
12	13	11/15/52
13	14	11/15/52
14	15	11/15/52
15	16	11/15/52
16	17	11/15/52
17	18	11/15/52
18	19	11/15/52
19	20	11/15/52
20	21	11/15/52
21	22	11/15/52
22	23	11/15/52
23	24	11/15/52
24	25	11/15/52

SIGNATURES		DATE	digital
DRN. <i>A. E. Hall</i>	<i>11-27</i>	<i>62-28</i>	
CHK. D. <i>P. Hoff</i>	<i>11-28</i>	<i>62-28</i>	TITLE DEC PACK INDEX & SECTOR
ENG. _____	_____	_____	
PROJ. ENG. _____	_____	_____	
PROD. _____	_____	_____	SIZE CODE NUMBER
SCALE <i>2:1</i>	_____	_____	D UA M7680-0-2 C
SHT. 1 OF 2	_____	_____	REV
ETCH REV <i>B</i>	FIRST USED ON	_____	1 MS#BC 275

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WIRE TABLE						
ITEM NO.	DESCRIPTION	FROM	TO			
	AWG	COLOR	POINT	WITH	POINT	WITH
44	22	RED	J1-1	—	MB8	SOLDER
		BLK	J1-2		MB9	
		BRN	J1-3		MB1	
		ORN	J1-4		MB2	
		YEL	J1-5		MB3	
		GRN	J1-6		MB4	
		BLU	J1-7		MB5	
		VIO	J1-8		MB6	
44	22	WHT	J1-9	—	MB7	SOLDER

- NOTES: (FOR REWORK OF EXISTING M7680-0)
1. REMOVE EXISTING FLIP CHIP HANDLES ON M7680 MODULE AND REPLACE WITH FLIP CHIP HANDLE LABELED M7680-YA AND CABLE CLAMP AS PER DRAWING.
 2. STAMP FLIP CHIP HANDLE WITH C.S. REV. OF ORIGINAL M7680 MODULE.
 3. REMOVE EXISTING ROTARY SWITCH (S1), 8 POS. FROM M7680 MODULE AND WIRE CABLE (ITEM 44) PER WIRE TABLE.



DETAIL 'A'
SCALE: NONE

THIRD ANGLE PROJECTION		DO NOT SCALE DWG		NEXT HIGHER ASSY.		MATERIAL		FINISH	
SEE PARTS LIST		SCALE 1/1		SHEET 2 OF 2		SIZE CODE D UA		NUMBER M7680-0-0	
REV. C		DIST.		REV. C		REV. C		REV. C	

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES	CLASS OF	NOMINAL DIMENSION RANGE INCHES					
OF 20	ADJUDICACY	SIZE	1/16	1/8	1/4	3/8	1/2
SURFACE	CHECK ONE	1/8	3/16	1/4	3/8	1/2	1
QUALITY	IN	1/8	1/16	1/32	1/64	1/32	1/64
MICROMETERS		PREFERRED	1.012	1.016	1.020	1.024	1.028
VARIATION			1.032	1.036	1.040	1.044	1.048
DRN. <i>as per</i>		FIRST USED ON		RK05-HC <i>010110</i>			
CHK'D <i>as per</i>		TITLE		DEC PACK			
ENG. <i>as per</i>		INDEX		INDEX & SECTOR			
PROJ. ENGR. <i>as per</i>		REV. C		REV. C			
PROD. <i>as per</i>		REV. C		REV. C			

RRS5.C RUN NAME	RRP268.V34(62)1	31-JUL-75	MEMAMS	2-JUN-76	RRS5.C PAGE 7	RRS5.C PAGE 7	RRS5.C PAGE 7
A/P	PTI	ORDER	ORDER	ORDER	EXCEPTIONS	EXCEPTIONS	EXCEPTIONS
NAME	NAME	PIN	NAME	NAME	PLUS	PLUS	PLUS
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
CUTER LIMIT	H	A03K1	1-21	D25-6	2	1	80
CUTER LIMIT	H	A03K1	1-22	D25-6	1	1-1/4	80
CUTER LIMIT	H	A05D1	1-23	D25-6	1	2-1/4	80
CUTER LIMIT	H	A05D1	1-24	D25-6	1	2-1/4	80
POWER AMP OR	H	A05U2	1-41	D25-9	1	1-1/4	87
POWER AMP OR	H	A06M1	1-42	D25-9	1	1-1/4	87
POWER AMP OR	H	A06M1	1-43	D25-9	1	1-1/4	87
PROTECT IND	H	A06C1	1-41	D25-8	1	5-5/8	84
PROTECT IND	H	A06C1	1-42	D25-8	1	5-5/8	84
PROTECT IND	H	A06C1	1-43	D25-8	1	5-5/8	84
PWR SFC ANSDUR	H	A02D1	1-41	D25-2	1	3-5/8	69
PWR SFC ANSDUR	H	A02D1	1-42	D25-2	1	3-5/8	69
PWR SFC ANSDUR	H	A02D1	1-43	D25-2	1	3-5/8	69
R/W/S READY	H	A03P1	1-21	D25-5	1	3-1/8	74
R/W/S READY	H	A03P1	1-22	D25-5	2	1-5/8	74
R/W/S READY	H	A03P1	1-23	D25-5	1	4-6/8	74
R/W/S READY	H	A03P1	1-24	D25-5	1	4-6/8	74
R/W/S READY	L	A01P2	1-21	D25-1	1	2-7/8	71
R/W/S READY	L	A02K1	1-22	D25-1	1	2-7/8	71
R/W/S READY	L	A02K1	1-23	D25-1	1	2-7/8	71
READ CLOCK	L	A01F2	1-21	D25-2	1	3-1/8	72
READ CLOCK	L	A07S1	1-22	D25-2	1	3-1/8	72
READ CLOCK	L	A07S1	1-23	D25-2	1	3-1/8	72
READ DATA	L	A01F2	1-21	D25-2	1	3-6/8	73
READ DATA	L	A07S2	1-22	D25-2	2	3-6/8	73
READ DATA	L	A07S2	1-23	D25-2	1	3-6/8	73
READ GATE	L	A01N2	1-21	D25-1	1	5-2/4	74
READ GATE	L	A06H1	1-22	D25-1	2	1	74
READ GATE	L	A07H1	1-23	D25-1	1	0-4/8	74
READ GATE	L	A07H1	1-24	D25-1	1	0-4/8	74
READ IND	H	A02F2	1-21	D25-9	1	2-5/8	75
READ IND	H	A06J1	1-22	D25-9	1	2-5/8	75
READ IND	H	A06J1	1-23	D25-9	1	2-5/8	75
READY	H	A02C1	1-21	D25-3	1	3-1/8	76
READY	H	A04U1	1-22	D25-3	1	3-1/8	76
READY	H	A04U1	1-23	D25-3	1	3-1/8	76
READY IND	H	A06R1	1-21	D25-8	1	5-3/8	77
READY IND	H	A04-1	1-22	D25-8	1	5-3/8	77
READY IND	H	A04-1	1-23	D25-8	1	5-3/8	77
RESTORE	H	A02P1	1-21	D25-4	1	1-3/4	78
RESTORE	H	A03J1	1-22	D25-4	1	1-3/4	78
RESTORE	H	A03J1	1-23	D25-4	1	1-3/4	78
RRS5.C RUN NAME	RRP268.V34(62)1	31-JUL-75	MEMAMS	2-JUN-76	RRS5.C PAGE 8	RRS5.C PAGE 8	RRS5.C PAGE 8
A/P	PTI	ORDER	ORDER	ORDER	EXCEPTIONS	EXCEPTIONS	EXCEPTIONS
NAME	NAME	PIN	NAME	NAME	PLUS	PLUS	PLUS
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
RESTORE	L	A06P1	1-21	D25-7	2	1	79
RESTORE	L	A07M1	1-22	D25-7	1	4-1/4	79
RESTORE	L	A02H1	1-23	D25-2	1	5-1/8	79
REV	H	A03M1	1-21	D25-5	1	1-7/8	84
REV	H	A05K2	1-22	D25-5	1	1-7/8	84
REV	H	A05K2	1-23	D25-5	1	1-7/8	84
RM-11D	L	A08U1	1-21	D25-8	2	1	81
RM-11D	L	A07U1	1-22	D25-8	1	4-2/4	81
RM-11D	L	A02U1	1-23	D25-8	1	5-2/4	81
RTZ	L	A03E1	1-21	D25-2	1	3-3/8	82
RTZ	L	A02C1	1-22	D25-2	1	3-3/8	82
RUN S4	L	A06L1	1-21	D25-7	1	4-1/8	83
RUN S4	L	A06L1	1-22	D25-7	1	4-1/8	83
SECTOR	L	A02S2	1-21	D25-9	1	3-1/8	84
SECTOR	L	A06R1	1-22	D25-9	1	3-1/8	84
SECTOR/INDEX RAM	H	A02E1	1-21	D25-2	1	5-7/8	85
SECTOR/INDEX RAM	H	A06L1	1-22	D25-2	1	5-7/8	85
SEEK DONE IND	H	A02V1	1-21	D25-5	1	3-2/8	86
SEEK DONE IND	H	A06P1	1-22	D25-5	1	3-2/8	86
SEEK DONE IND	H	A06P1	1-23	D25-5	1	3-2/8	86
SEL/WHITE PROTECT SET	L	A02M1	1-21	D25-5	1	2-5/4	87
SEL/WHITE PROTECT SET	L	A06R1	1-22	D25-5	1	2-5/4	87
SEL/WHITE PROTECT SET	L	A06R1	1-23	D25-5	1	2-5/4	87
SELECT	H	A01S2	1-21	D25-2	2	1-6/8	88
SELECT	H	A04S1	1-22	D25-2	1	4-1/8	88
SELECT	H	A02V2	1-23	D25-2	1	5-7/8	88
SELECT 1	L	A08J2	1-21	D25-3	2	1	89
SELECT 1	L	A07J2	1-22	D25-3	1	5-7/8	89
SELECT 1	L	A02R2	1-23	D25-3	1	0-7/8	89
SELECT 2	L	A08K2	1-21	D25-3	2	1	90
SELECT 2	L	A07K2	1-22	D25-3	1	5	90
SELECT 2	L	A02S2	1-23	D25-3	1	0-7/8	90

RR03,C RUN NAME	APP NAME	PIN ORDER	PIV ORDER	31-JUL-75 DATE	Q DBA	OPT	PV	RG	Y	X	Z	REMARKS 2-JUN-76	8100 FLAG	8101 PAGE Y FLAG	8102 LENGTH EXCEPTIONS	RUN NUMBER
SELECT 3	L	AW6LZ	1-01 *								2				1	91
SELECT 3	L	AW7LZ	1-02 *								1			5-7/F		91
SELECT 3	L	AW2TZ	1-03 *											6-7/e		91
SELECT 4	L	AW6M2	1-01 *								2			1		92
SELECT 4	L	AW7M2	1-02 *								1			5		92
SELECT 4	L	AW2I2	1-03 *											6-7/e		94
SELECT/READY	L	AW1H2	1-01 *								1			2-3/e		93
SELECT/READY	L	AW4V1	1-02 *								2			2-2/e		93
SELECT/READY	L	AW2H1	1-03 *											4-5/e		93
SELECTED PRAD GATE	H	AW1B1	1-01 *								1			1-3/e		94
SELECTED PRAD GATE	H	AW2F2	1-02 *											1-3/e		94
SELECTED WRITE GATE	H	AW1V1	1-01 *								1			1-2/e		95
SELECTED WRITE GATE	H	AW2T2	1-02 *											1-2/e		95
SET UNSAFE	L	AW1U2	1-01 *								1			2-2/e		96
SET UNSAFE	L	AW4A1	1-02 *											2-2/e		96
SIN POSITION	H	AW5M1	1-01 *								1			2-5/e		97
SIN POSITION	H	AW6D1	1-02 *											2-5/d		97
STROBE	L	AW7V1	1-01 *								1			4-1/e		98
STROBE	L	AW7H1	1-02 *								2			1		98
STROBE	L	AW6H1	1-03 *											5-1/d		98
UNSAFE	L	AW1U2	1-01 *								1			4-5/e		99
UNSAFE	L	AW4V2	1-02 *											2-5/e		99
WRITE DATA + CLK	H	AW1J1	1-01 *								1			3-7/e		100
WRITE DATA + CLK	H	AW2F2	1-02 *								2			1		100
WRITE DATA + CLK	H	AW6R2	1-03 *											4-7/e		100
WRITE GATE	L	AW1I2	1-01 *								1			3-6/e		101
WRITE GATE	L	AW7L2	1-02 *								2			1		101
WRITE GATE	L	AW6L2	1-03 *											5-6/e		101
WRITE PROJECT SET	L	AW2S1	1-01 *								1			3-3/e		102
WRITE PROJECT SET	L	AW7R2	1-02 *								2			1		102
WRITE PROJECT SET	L	AW6R2	1-03 *											4-3/e		102

RR05,C RUN NAME	APP NAME	PIN ORDER	PIV ORDER	31-JUL-75 DATE	Q DBA	OPT	PV	RG	Y	X	Z	REMARKS 2-JUN-76	8100 FLAG	8101 PAGE Y FLAG	8102 LENGTH EXCEPTIONS	RUN NUMBER
WRITE SA OFF	L	AW6D1	1-01 *								1				3-3/e	103
WRITE SA OFF	L	AW4F1	1-02 *											3-3/e		103
WRITE SA ON	L	AW6M1	1-01 *								1			3-3/e		104
WRITE SA ON	L	AW4E1	1-02 *											3-3/e		104
WRITE SA ON	L	AW2U1	1-01 *								1			3-2/e		105
WRITING IND	H	AW6E1	1-02 *											3-2/e		105

DRWG NO
K-WL-RKØ5-Ø-3

REVLTR
C



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

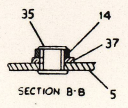
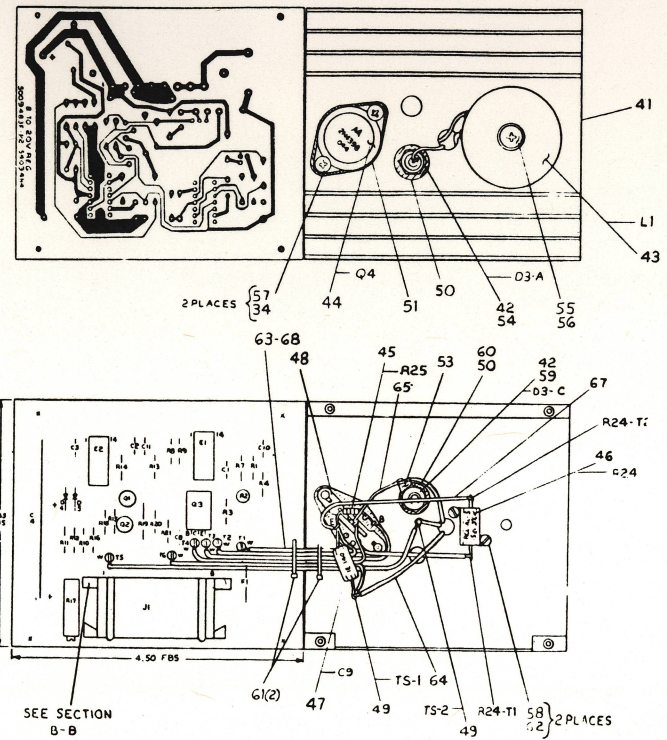
DRAWN <i>RE Hellen</i>	DATE 11/8/71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE WIRE LIST (RKØ5)									
CHECKED <i>J. J. Omy</i>	DATE 11-9-71		FOR TAPE * FILE *									
ENG <i>Robert W. Jensen</i>	DATE 24 Nov 71		SIZE K	CODE WL	DWG. NO. RKØ5-Ø-3							
PROJ. ENG <i>E. J. Johnson</i>	DATE 11-24-71		ASSY NO D-AD-7008696-0-0	REV LTR C								
PROD <i>Alan Kautsky</i>	DATE 1/29/71	SCALE NONE	SHEET 1	OF 1	DIST.							

WIRE TABLE					EXTERNAL COMPONENTS								
ITEM NO.	DESCRIPTION	LENGTH INCHES ± 1/8	STRIP LENGTH X	STRIP LENGTH Y	CONNECTIONS		ITEM NO.	LENGTH	DESCRIPTION	POL.	CONNECTIONS		POL.
NO.	AWG	COLOR			FROM	TO					FROM	TO	
43		BLK	2 1/8	—	1/2	L1	R3-1	4.9	RES 100Ω 1/4W 5%		Q4-E	Q4-B	
43		BLK	2 1/8	—	1/2	L1	TS-2	4.9	RES 100Ω 1/4W 5%	+	Q4-E	Q4-B	
65	18	BLU	2 1/4	1/2	1/2	Q4-C	R24-T2		CAP 100PF 50V 10%		Q4-E	TS-1	—
67	18	GRY	3 5/8	1/2	1/2	Q4-E	R24-T2						
64	18	GRN	4 1/2	1/2	1/2	D3-ANODE	TS-1						
68	18	WHT	5 7/8	1/2	1/2	SPLIT LUG	R24-T1						
67	18	GRY	4 7/8	1/2	1/2		Q4-E						
66	18	VIO	5 1/8	1/2	1/2		Q4-B						
65	18	BLU	5 1/8	1/2	1/2		Q4-C						
64	18	GRN	5 1/2	1/2	1/2		TS-1						
63	18	YEL	6 7/8	1/2	1/2	SPLIT LUG	TS-2						

SEE NOTE 5

NOTES:

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



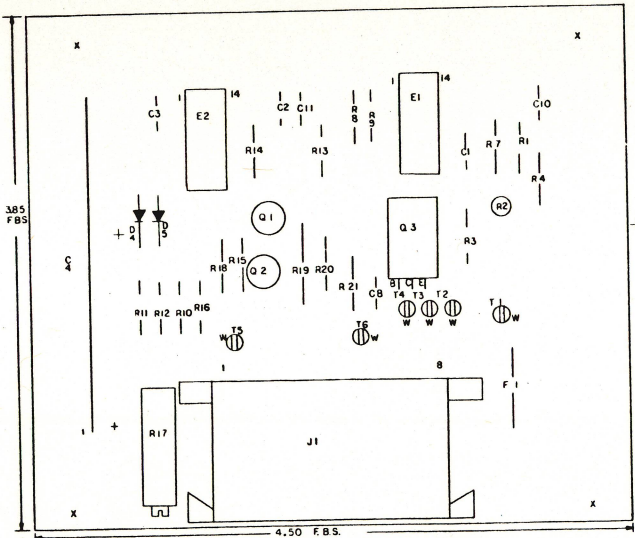
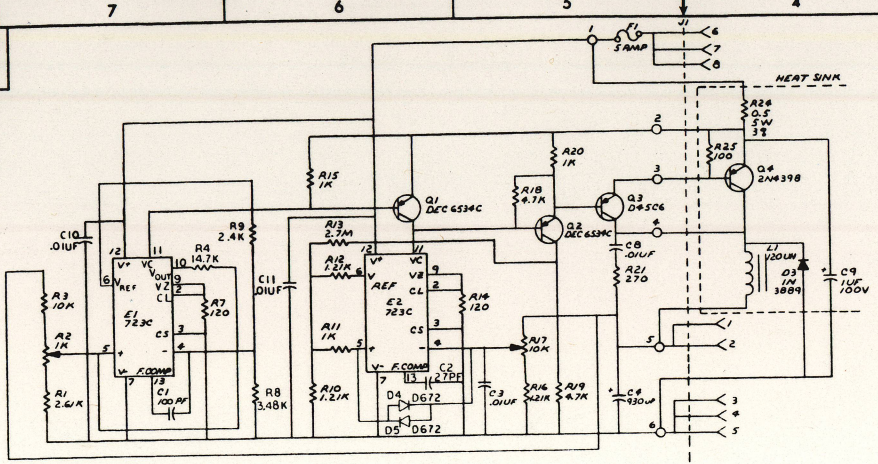
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
1	ETCH BOARD REV			
1	DRN T. JULLIN	DATE 7-26-71	DIGITAL EQUIPMENT CORPORATION	
1	CHKD J. FLEMING	DATE 8-28-71	TITLE	
1	ENG P. SVENDSEN	DATE 5-27-71	8 TO 20V REGULATOR	
1	PROF LBS	DATE	REV	
1	PROD P. FAZI	DATE 5-27-71	SIZE CODE DUA-H737-0-0	
	NEXT HIGHER ASSY		NUMBER 5409494-0-0	
	SCALE NONE		REV K	
	SHEET 1 OF 1	DIST		

REV	DESCRIPTION	DATE
1	REVISED DRAWN	
2	CHK CHANGE NO.	
3		

SEMICONDUCTOR CONVERSION CHART

DEC NO	EIA NO	DEC NO	EIA NO

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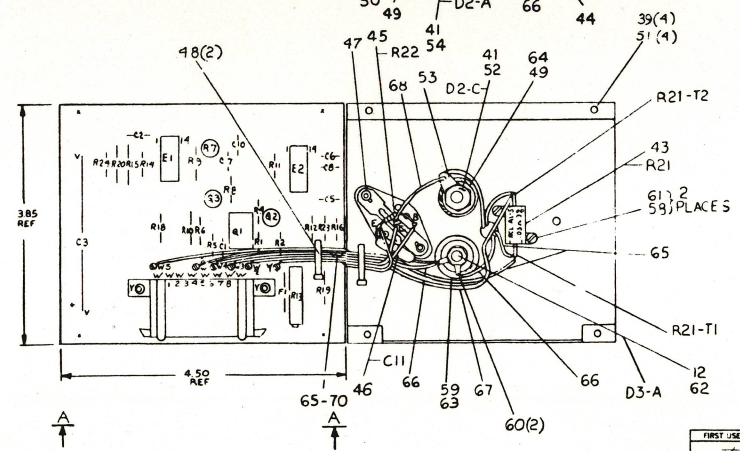
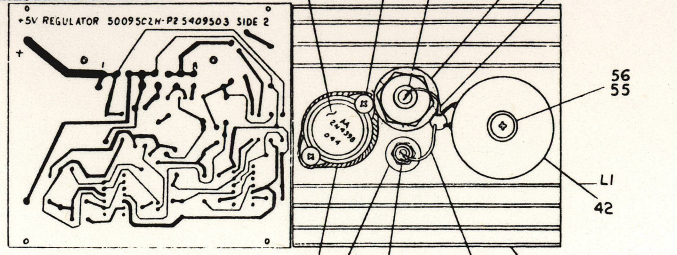
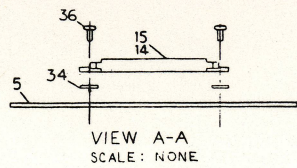


QTY	REF DESIGNATION	DESCRIPTION	SIZE CODE	NUMBER	REV
1	A	WASHER LOCK SPRING		9007801	49
A/A		WIRE #18 AWG STAD (WHY)		9107360-99	58
A/A		WIRE #18 AWG STAD (GRY)		9107360-88	67
A/A		WIRE #18 AWG STAD (VIO)		9107360-77	66
A/A		WIRE #18 AWG STAD (BLU)		9107360-66	65
A/A		WIRE #18 AWG STAD (GRN)		9107360-55	64
A/A		WIRE #18 AWG STAD (YEL)		9107360-44	63
2	Z	#2 INTERNAL LOCK WASHER		9006631	62
1	Z	TIC WRAPAS		9007031	61
1	Z	WASHER FLAT 3/16		9006626	60
1	Z	7/16-32 HEX NUT		9006356	59
2	Z	2 1/8 x 3/16" SCREW		9006000-4	58
2	Z	6/32 x 1/8" PAN HD SCREW		9006023-1	57
1	Z	10-32 x 1/4" TRUSS HD SCREW		9006071-3	56
1	Z	#0 INTERNAL LOCK WASHER		9006635	55
1	Z	BUSHING (DODGE)		9008441	54
1	Z	SOLDER LUG		9008150	53
1	Z	#6-20 x 3/8" SELF TAPPING SCREW		9008407-01	52
1	Z	THERMAL INSULATOR		9008417	51
1	Z	THERMAL INSULATOR		9008424	50
2	Z	TS-1, TS-2		9009060	49
1	Z	TRANSISTOR SOCKET		1210130	48
1	Z	CAP TUF 100V		1005507	47
1	Z	RES. 0.5 3% 5W		1310508	46
1	Z	RES. 100 5% 1/8 W		1300229	45
1	Z	TRANSISTOR 2N4398		1505870	44
1	Z	120UM CHOKE		1810273	43
1	Z	DIODE 1N3889		1110491	42
1	Z	HEAT SINK		0-2A-3309393-0-0	41
6	Z	SPLIT LUGS		9006735	40
A/A		THERMAL COMPOUND		9008268	39
1	Z	FUSE 5 AMPS		1209470	38
1	Z	WASHER W/SLON		9006707	37
2	Z	CONNECTOR PINS		1209456	36
2	Z	EYELET		9006732	35
2	Z	WASHER INT TOOTH #6		9006633	34
2	Z	DIP REGULATOR 723C		1910415	33
1	Z	TRANSISTOR D4506		1510414	32
2	Z	TRANSISTOR DEC 653#C		1503409-02	31
1	Z	RES 270 1/8W 5%		1301972	29
1	Z	RES 4.7K 1/2 W 5%		1300445	28
1	Z	RES 4.7K 1/4 W 5%		1300447	27
1	Z	RES VARIABLE 10K 3/4 W 10%		1309143-10	26
1	Z	RES 2.7M 1/4 W 5%		1309480	25
3	Z	RES 1K 1/4 W 5%		1300365	24
1	Z	RES 1.2K 1/8W 1% MF		1302871	23
1	Z	RES 3.48K 1/8W 1% MF		1305144	22
2	Z	RES 120 1/4 W 5%		1300247	21
1	Z	RES 2.4K 1/4W 5%		1303177	19
1	Z	RES 1.7K 1/8 W 1% MF		1302951	18
1	Z	RES 10K 1/8W 1% MF		1302312	17
1	Z	RES VARIABLE 1K 1/2 W		1309150-03	16
1	Z	RES 2.6K 1/8W 1% MF		1303303	15
1	Z	PAN PIN CONNECTOR (MATELOC)		1209340-00	14
2	Z	DIODE D672		11105275	13
1	Z	RES 10			12
1	Z	RES 10			11
1	Z	RES 10			10
1	Z	CAP 930UF 30V .10-25%		1010509	9
4	Z	CAP 0.1UF 100V 20% AXIAL		1001410	8
1	Z	CAP 27 PF 100 V 5% MICA		1001739	7
1	Z	CAP 100PF 100V 5% QM		1000006	6
1	Z	ETCHED CIRCUIT BOARD		1007483	5
1	Z	MODULE ECO HISTORY		B-MN-5909484-06	4
1	Z	ASST DRILLING HOLE LAYOUT		B-MN-5909484-05	3
1	Z	X-Y COORDINATE HOLE LOCATION		B-MN-5909484-04	2
1	Z	B TO 20V REGULATOR		B-MN-5909484-03	1

REV	CHG	NO	DATE	BY	APP	DESCRIPTION
1	1	1	1/11/72	J RINALDIS		INITIAL DESIGN
2	1	1	1/11/72	J RINALDIS		REVISED
3	1	1	1/11/72	J RINALDIS		REVISED

DATE	1/11/72	SCALE	1:1	TITLE	B TO 20V REGULATOR	SHEET	1 OF 1	DIST	
DESIGNED BY	J RINALDIS	CHECKED BY	J RINALDIS	DATE	1/11/72				
APP'D BY	J RINALDIS	SCALE	1:1						

WIRE TABLE					EXTERNAL COMPONENTS				
ITEM NO.	AWG	COLOR	LENGTH	CONNECTIONS	ITEM NO.	LENGTH	DESCRIPTION	POL	CONNECTIONS
42		BLK	2 1/4"	L1	45	NOTE #2	RES. 100 1/4W 5%		Q5-E
48		BLK	2 1/4"	L1	46	NOTE #3	CAP. 100V 50140 μF		Q5-E
68	18	VIO	2 1/4"	1/2"					Q5-E
66		GRN	4 1/4"	1/2"					Q5-E
65		VEL	4 1/8"	1/2"					Q5-E
70		WHT	4 3/8"	1/2"					Q5-E
69		GRY	5 1/4"	1/2"					Q5-E
68		VIO	5 1/4"	1/2"					Q5-E
67		BLU	8"	1/2"					Q5-E
66		GRN	5 3/4"	1/2"					Q5-E
65	18	VEL	8 1/4"	1/2"					Q5-E



NOTES:

- R13 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R7 IS USED FOR OUTPUT CURRENT ADJUSTMENT.
- CUT LEADS OF RES. (R22) SO THERE IS 3/8" OF A LEAD LEFT ON BOTH ENDS.
- CUT LEADS OF CAP. (C11) SO THERE IS 1/2" OF A LEAD LEFT ON BOTH ENDS.
- THERMAL COMPOUND (ITEM 31) IS TO BE APPLIED TO BOTH SIDES OF ALL THERMAL INSULATORS (ITEM 49, 50 & 63). BOTH SIDES OF EACH INSULATOR SHOULD BE COVERED, LEAVING NO VOIDS WHEN INSTALLED. CARE MUST BE EXERCISED SO THAT NO EXTRA COMPOUND INTERFERES WITH ANY ELECTRICAL CONNECTION MADE TO ANY DEVICE.
- WHEN ASSEMBLING THE WIRES FROM THE CIRCUIT BOARD TO THE HEAT SINK, PLACE THE MODULE AGAINST THE HEAT SINK, WIRE AS SHOWN BY THE WIRE LIST AND MAKE A SERVICE LOOP AT THE CONNECTIONS ON THE HEAT SINK TO TAKE UP ANY EXCESS WIRE THAT MIGHT BE AVAILABLE.

IC. TYPE	QND	+5V
QND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTONS ARE STATED ABOVE		
IC. PIN LOCATIONS		

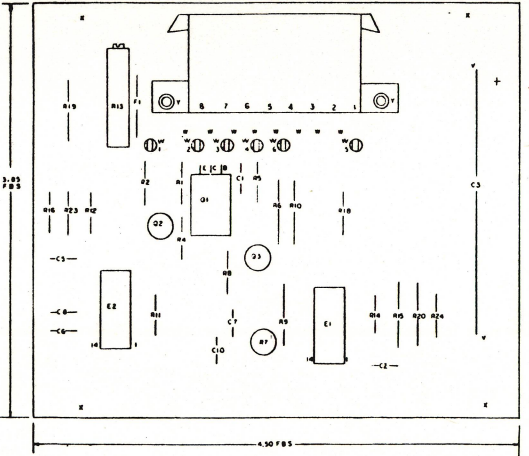
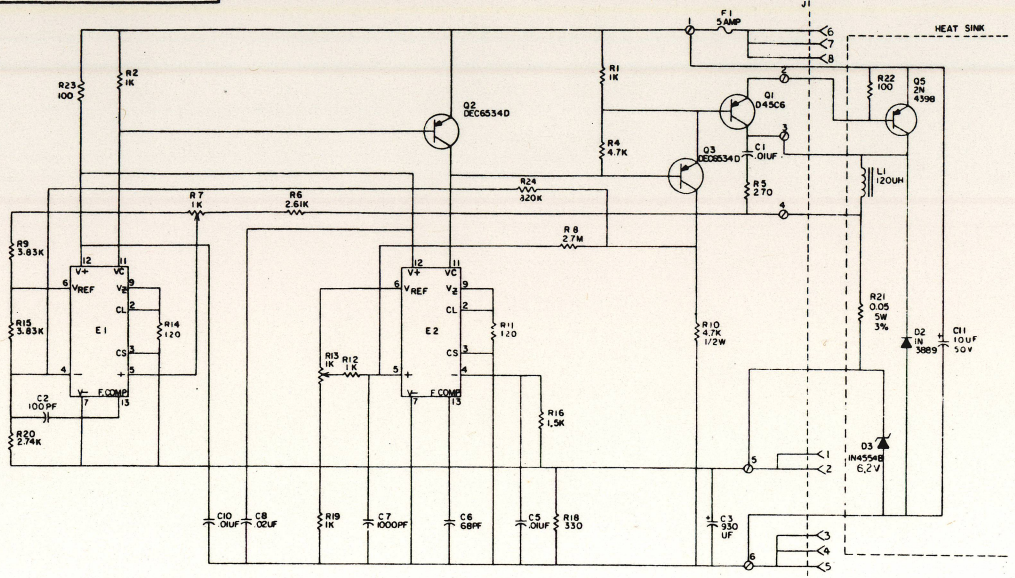
FIRST USED ON OPTION MODEL			QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST							
ETCH BOARD REV	H						
REV 1	MARINI	DATE 8-21-71					
REV 2	FLEMING	DATE 8-27-71					
REV 3	VENDON	DATE 9-8-71					
REV 4	VENDON	DATE 9-15-71					
REV 5	FAZIO	DATE 8-3-71					
NEXT HIGHER ASSY							
DEC NO.	EIA NO.	DEC NO.	EIA NO.				
				SCALE	NONE	NUMBER	
				SHEET	1 OF 1	DIST	

Digital EQUIPMENT CORPORATION
+ 5 VOLT
POWER REGULATOR

SIZE CODE: D1A15409503-0-0
REVISION: R

15409503-0-0

THIS SCHEMATIC IS PROVIDED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITRY AND COMPONENTS ARE SUBJECT TO CHANGE WITHOUT NOTICE. APPROVED COMMENT 1/97 BY DATA EQUIPMENT CORPORATION



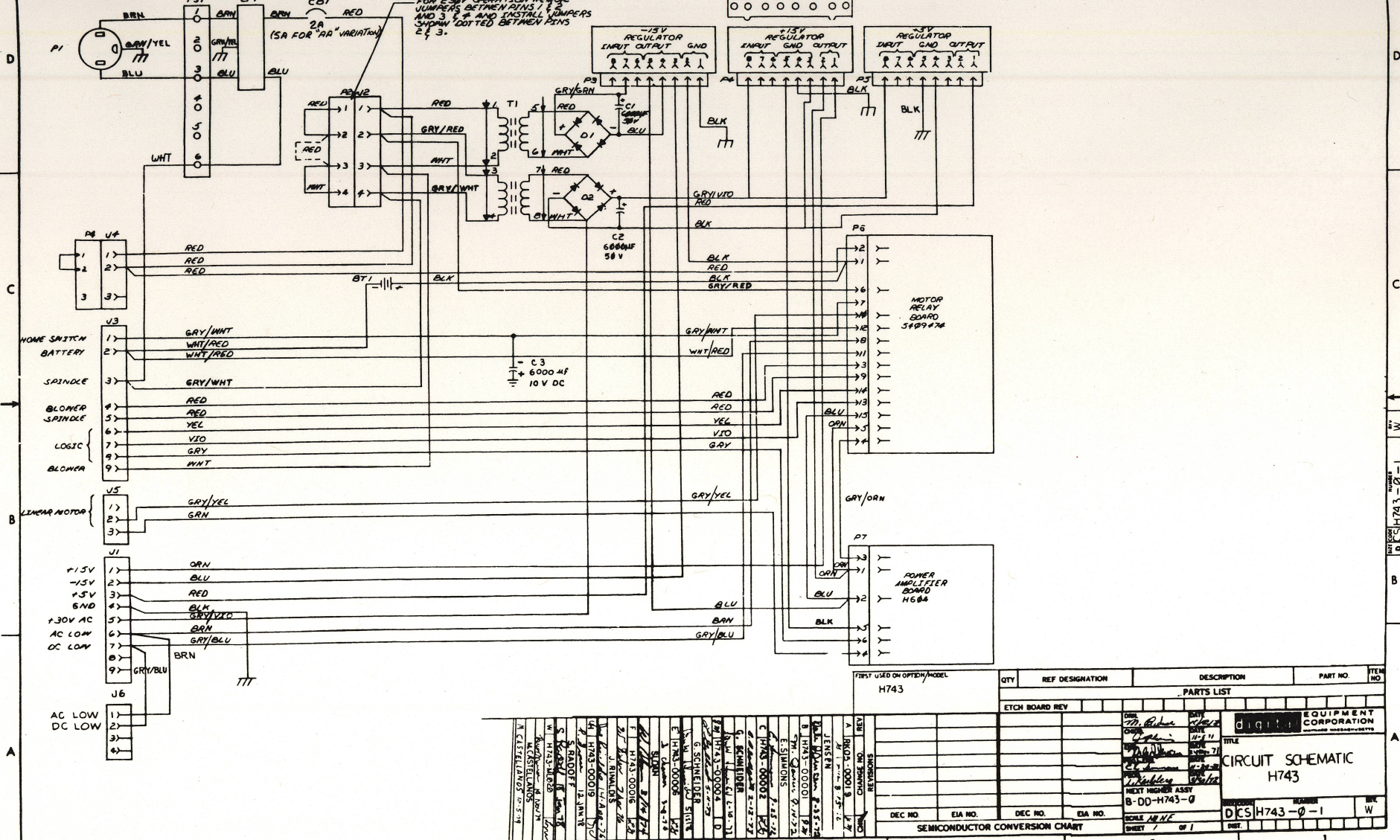
Q/R	REF DESIGNATION	DESCRIPTION	PART NO.	QTY
Q/R	WIRE #18AWG STRD (WHT.)		9107360-99	70
Q/R	WIRE #18AWG STRD (GRY.)		9107360-88	69
Q/R	WIRE #18AWG STRD (VIO.)		9107360-77	68
Q/R	WIRE #18AWG STRD (BLU.)		9107360-66	67
Q/R	WIRE #18AWG STRD (GRN.)		9107360-55	65
Q/R	WIRE #18AWG STRD (YEL.)		9107360-44	64
1	3/16 FLAT WASHER		9006686	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	FLAT WASHER		9006676	59
2	5-6 BINDING HD 2-56 X 3/8 SST		9006000-4	58
2	SCR PHIL PAN HD 6-32 X 5/8 SST		900625-1	57
1	SCR PHIL TRUSSHD 10-32 X 1 SST		9006077-3	56
1	WASHER, INT TOOTH LOCK #10		9006635	53
2	BUSHING		9008441	54
1	SOLDER LUG		9008150	53
1	NUT, HEX #10-32		9006664	52
4	SCR PHIL PAN HD # 6-20 X 3/8 ST		9008407	51
1	THERMAL INSULATOR		9008479	50
2	THERMAL INSULATOR		9008478	49
2	TIE WRAPS		9007031	48
1	TRANSISTOR SOCKET		1210130	47
1	CAP 100UF 50V		1000070	46
2	R22, R23	RES 100 1/4W 5%	1300229	45
1	HEAT SINK		0-IA-50954LD-9	44
1	R21	RES 0.05 5W 3%	1310507	43
1	L1	CHUCKE 120UH	1610573	42
1	D2	DIODE 1N4933	1110491	41
1	Q5	TRANSISTOR 2N4398	1505910	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%	1300491	37
2	EYELETS		9006742	36
6	SPLIT LUGS		9008149	35
2	WASHER NYLON		9008707	34
2	E1, E2	IC 7830LP REGULATOR	1910415	33
1	Q1	TRANSISTOR D45C6-C-E	1510414	32
4/R	Q1	THERMAL COMPOUND	9008268	31
2	Q2, Q3	TRANSISTOR DEC 6534D	1503409-00	30
1	R6	RES 2.7M 1/4W 5%	1302690	29
5	R9, R15	RES 3.83K 1/8W 1%	1309493	28
1	R7	RES 1K 1/2W 20%	1309150-3	27
1	R13	RES 1K 1/2W 76PPA	1309141-07	26
1	R20	RES 2.74K 1/8W 1% MF	1304869	25
1	R6	RES 2.61K 1/8W 1% ME	1303301	24
1	R19	RES 1K 1/8W 1% MF	1303116	23
1	R10	RES 4.7K 1/2W 5%	1300445	21
1	R5	RES 270 1/4W 5%	1301372	20
1	R4	RES 4.7K 1/4W 5%	1300447	19
3	R1, R2, R12	RES 1K 1/4W 5%	1300165	18
1	R18	RES 330 1/4W 5%	1301187	17
1	R24	RES 820K 1/4W 10%	1301187	16
8	CONNECTOR PIN		1209456	15
1	F1	5V 8 PIN AMP	1209340-00	14
1	F1	FUSE 5 AMP 5	1209070	13
1	D1	DIODE 1N4554B 6.2V	1110491	12
1	C8	CAP 02UF 100V-0+20% DISC	1000004	11
1	C3	CAP 330UF 30V-10+75% ELEC.	1010909	10
3	C1, C5, C10	CAP 101UF 100V 20% DISC	1000610	9
1	C7	CAP 1000PF 100V 5% MICA	1000062	8
1	C2	CAP 100PF 100V 5% DM	1000016	7
1	R8	CAP 58PF 100V 5% DM	1000014	6
5		ETCH CIRCUIT BOARD	5009502	5
1		MODULE ECO HISTORY	B-MH-5409503-0-4	4
1		ASSY DRILLING HOLE LAYOUT	D-AH-5409503-0-3	3
1		X-COORDINATE HOLE LOCATION	X-CO-5409503-0-2	2
1		+5V REGULATOR	D-IA-5409503-0-0	1

TRANSISTOR & DIODE CONVERSION CHART

MANUFACTURER	TYPE	DATE	DESCRIPTION
1N4554	1N4554	1N4554	DIODE 1N4554B 6.2V
1N4933	1N4933	1N4933	DIODE 1N4933
2N4398	2N4398	2N4398	TRANSISTOR 2N4398
DEC 6534D	DEC 6534D	DEC 6534D	TRANSISTOR DEC 6534D
7830LP	7830LP	7830LP	IC 7830LP REGULATOR
D45C6-C-E	D45C6-C-E	D45C6-C-E	TRANSISTOR D45C6-C-E

DATE: 6-2-78
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

DATA EQUIPMENT CORPORATION
15 VOLT REGULATOR
PART NO. 1-0-504950-53
REV 1/78



REV	CHANGE NO.	DESCRIPTION
1	1	INITIAL DESIGN
2	1	REVISED TO CORRECT TYPING
3	1	REVISED TO CORRECT TYPING
4	1	REVISED TO CORRECT TYPING
5	1	REVISED TO CORRECT TYPING
6	1	REVISED TO CORRECT TYPING
7	1	REVISED TO CORRECT TYPING
8	1	REVISED TO CORRECT TYPING
9	1	REVISED TO CORRECT TYPING
10	1	REVISED TO CORRECT TYPING
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15	1	REVISED TO CORRECT TYPING
16	1	REVISED TO CORRECT TYPING
17	1	REVISED TO CORRECT TYPING
18	1	REVISED TO CORRECT TYPING
19	1	REVISED TO CORRECT TYPING
20	1	REVISED TO CORRECT TYPING

FIRST USED ON OPTION/MODEL		QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.								
H743														
PARTS LIST														
ETCH BOARD REV														
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DATE	BY	CHKD	APP'D											
11/11	W. H. H.													
TITLE														
CIRCUIT SCHEMATIC														
H743														
EQUIPMENT CORPORATION														
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