

**KE8-E extended
arithmetic element
engineering drawings**

PARTS LIST

MAYNARD, MASSACHUSETTS

DATE 7/28/71

ENG *Rachael D. Thieme*

DATE 8/18/71

DATE 7/29/71

PROD *R. Peterson*

DATE 9/18/71

1

ISSUED SECT.	
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1

DWG NO. / PART NO.

DESCRIPTION

1	E-CS-M8340-0-1
---	----------------

DECODER & STEP COUNTER EAE

2	E-CS-M8341-Ø-1
---	----------------

MULTIPLEXER & TIMING GEN. EAE

3	B-UA-H851-Ø-Ø
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H851 EDGE CONNECTOR

QUANTITY / VARIATION

KE8-1

1

1

3

EXTENDED ARITH ELEMENT

D-UA-KE8-E-Ø

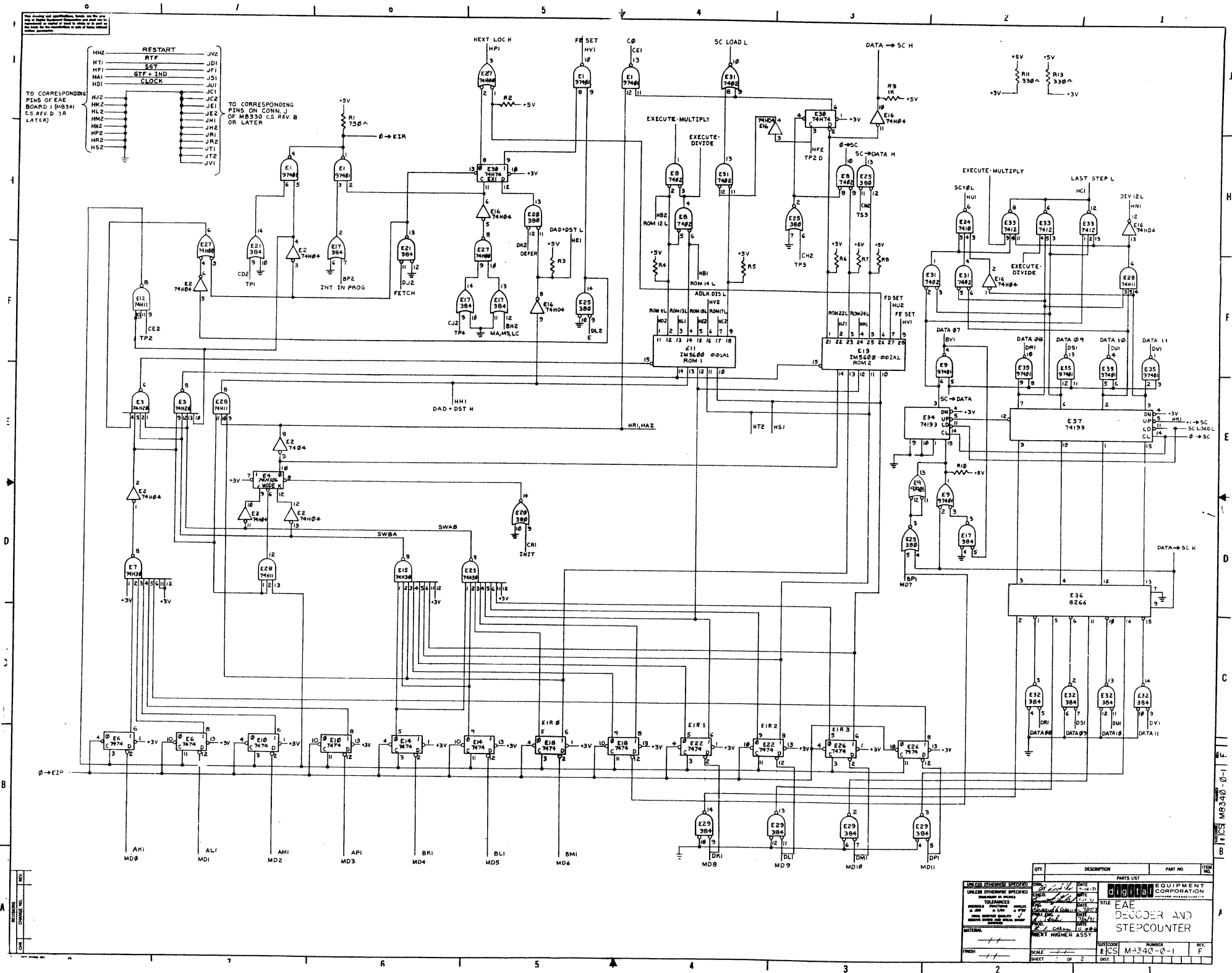
A	PL
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KE8-E-Ø

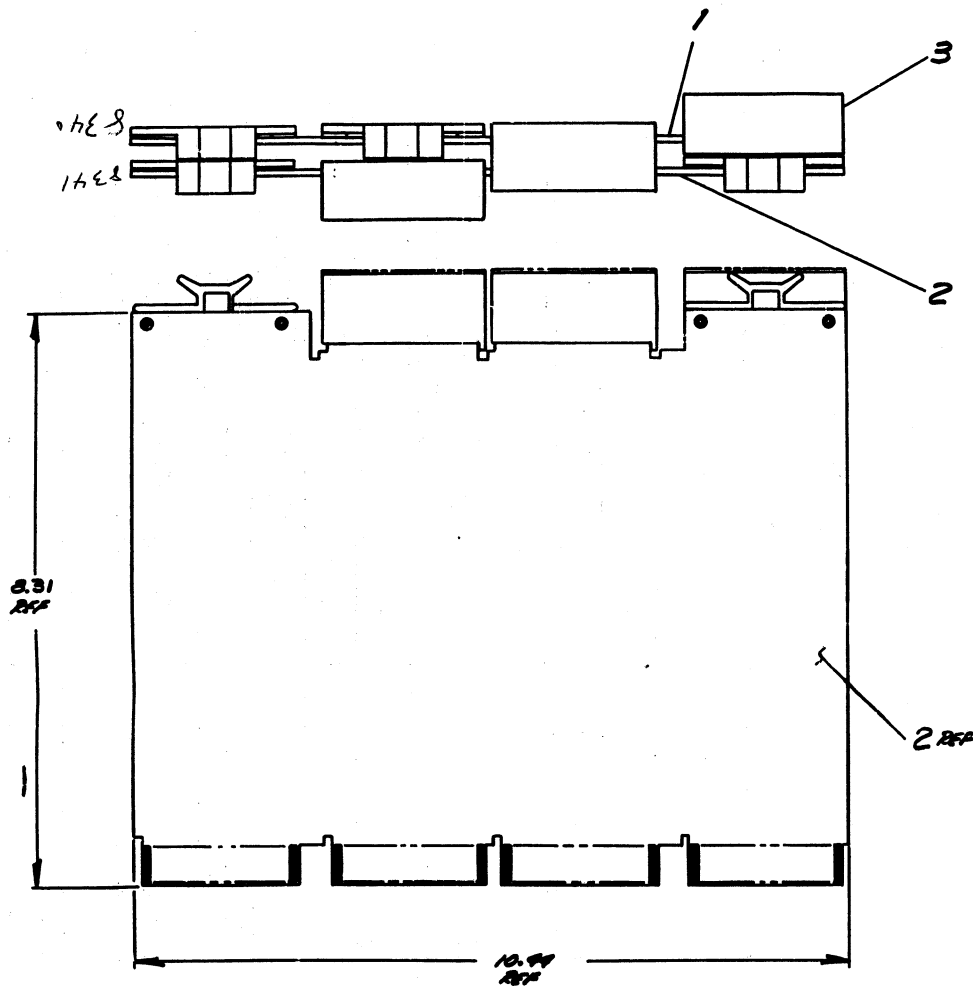
REV.	ECO NO.
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SHEET 1 OF 1

DATE	10/10/68
TIME	10:00
BY	100-100000
TO	100-100000
FROM	100-100000
RE	100-100000
INFO	100-100000
ATTN	100-100000
DIST.	100-100000



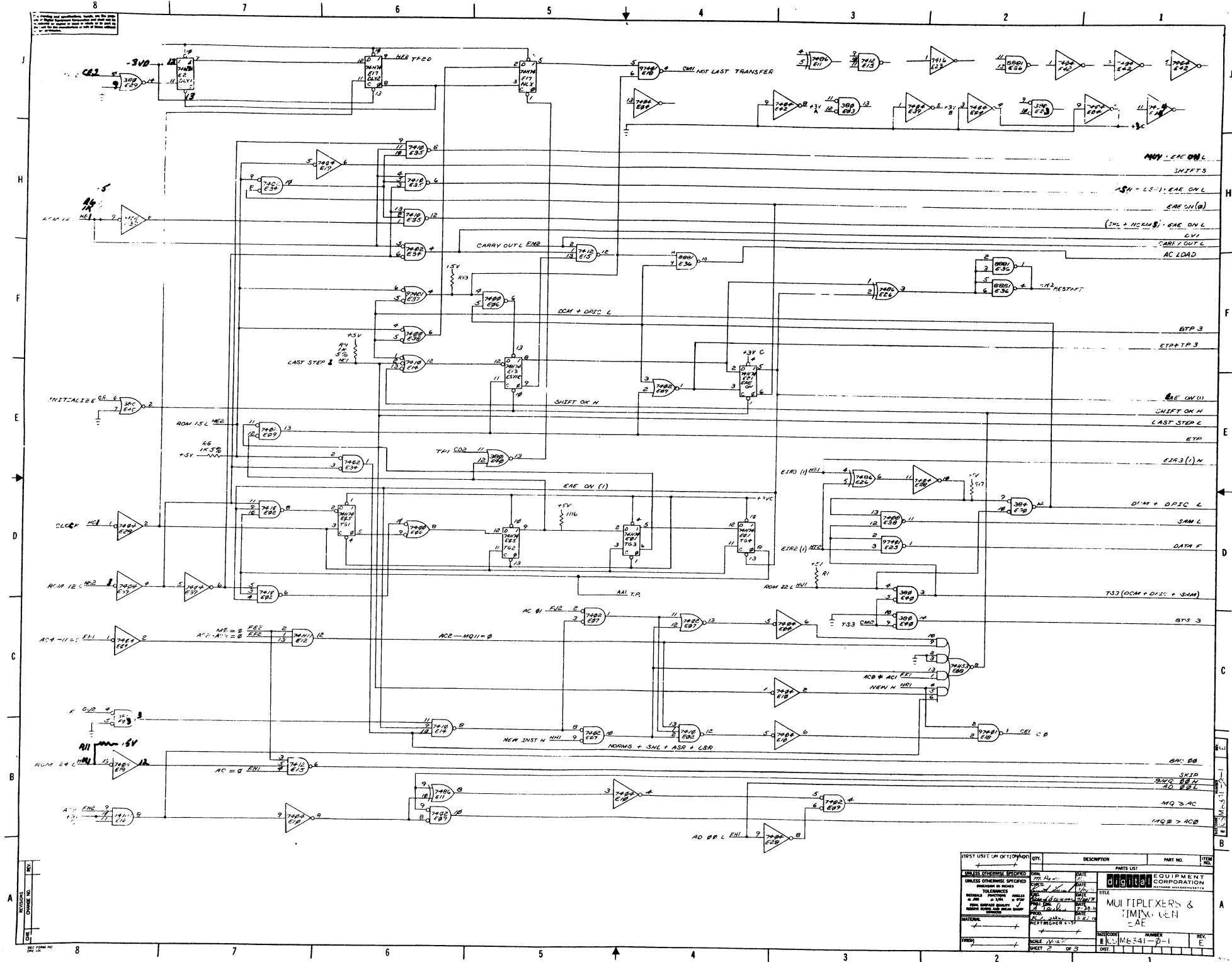
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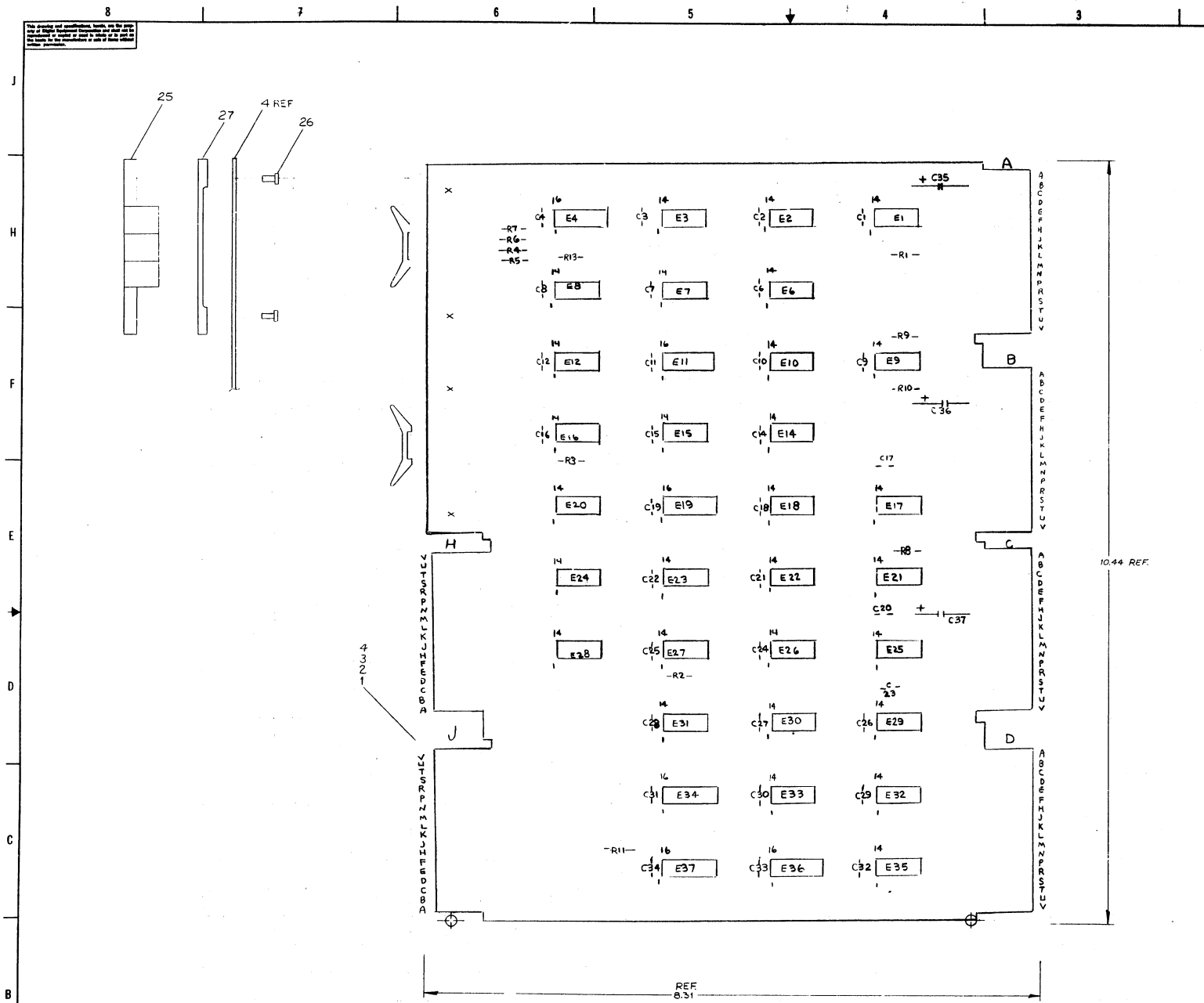


REV	CHG	NO
1	1	1

DEC FORM NO
DRD 100-A

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE 2/21/71	PARTS LIST		
DECIMALS		DATE 2/21/71	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
ANGLES		DATE 2/21/71	TITLE		
XXX - .005 XX - .02 X - .1		DATE 2/21/71	EXTENDED ARITH ELEMENT		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 2/21/71	SIZE CODE		
MATERIAL		DATE 2/21/71	NUMBER		
FINISH		DATE 2/21/71	REV.		
SCALE		DATE 2/21/71	DUA KE8-E-0		
SHEET		DATE 2/21/71	DIST.		

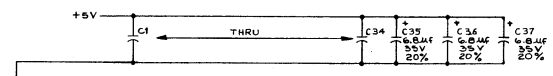




1	E11	IC 74193	23-001A1	33
6	E6,E10,E14,E18,E22,E26	IC DEC 7474	1905547	32
2	E2,E16	IC DEC 74H04	1909931	31
1	E27	IC DEC 74H00	1909056	30
1	R1	RESISTOR 750 1/4W 5%	1301401	29
2		GRIPLET	1202704	28
2		SPACER (CABLE CLAMP)	1202704	27
4		EYELET G54-11 STIMPSON	9006750	26
2		HANDLE FLIP CHIP MAGENTA	9006337-06	25
1	E4	IC DEC 74H106	1910408	24
1	E24	IC DEC 7410	1905574	23
1	E33	IC DEC 7412	1909955	22
2	E34,E37	IC DEC 74193	19010018	21
1	E36	IC DEC 8266	1909934	20
2	E28,E12	IC DEC 74411	1909267	19
1	E3	IC DEC 74H20	1905635	18
				17
4	E17,E21,E29,E32	IC DEC 384	1909486	16
2	E8,E31	IC DEC 7402	1909004	15
1	E30	IC DEC 74H74	1909667	14
3	E7,E15,E23	IC DEC 74H30	1909059	13
3	E1,E9,E35	IC DEC 97401	1909973	12
1	E20,E25	IC DEC 380	1909485	11
1	E19	IC IM 5600	23-001A1	10
2	R11,R13	RESISTOR 330 1/4W 5%	1300295	9
1	R9	RESISTOR 1K 1/4W 5%	1300365	8
8	R2-R8,R10	RESISTOR 470 1/4W 10%	1300317	7
3	C35,C36,C37	CAP 6.8uF 35V 20% S.TANT	1000067	6
32	C1-C4,C6-C12,C14-C18	CAP. 0.1uF 100V 20% DISC	1001610	5
1		ETCHED BOARD	5009603	4
REF		MODULE ECO HISTORY	B-MH-MB340-04	3
REF		ASSY/DRILLING - HOLE LAYOUT	DAH-MB340-05	2
REF		X-Y COORDINATE - HOLE LOCATION	KCO-MB340-04	1

IC TYPE	QTY	REF	FROM PT	TO PT
DEC 74193	8	16		
DEC 8271	8	16		
DEC 384	1	8		
DEC 380	1	8		
DEC 7476	5	13		
JUMPER LIST				
ITEM NO	AWG	FROM PT	TO PT	
1	20	16	13	
2	20	16	13	
3	20	16	13	
4	20	16	13	
5	20	16	13	

BC1, CC1, DC1,
AC2, BC2, CC2, DC2,
AF1, BF1, CF1, DF1,
AF2, BF2, CF2, DF2,
AN1, BN1, CN1, DN1,
AN2, BN2, CN2, DN2,
AT1, BT1, CT1, DT1,
AT2, BT2, CT2, DT2,



DATE	10/10/77	BY	WJZ
DESIGNED	WJZ	CHECKED	WJZ
APPROVED	WJZ	DATE	10/10/77
PROJECT	EAE DECODER & STEP COUNTER		
DEC NO.	EIA NO.	DEC NO.	EIA 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
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37

4	3	B REV.	0-0-198H851	2	1
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TOLERANCES DECIMALS

.XXX	=	+ .005
.XX	=	+ .02
.X	=	+ .1

UNLESS OTHERWISE SPECIFIED

DIMENSION IN INCHES

TOLERANCES

ANGLES ± 0°30'

FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

— H —

FINISH

— H —

REF	DESCRIPTION	PART NO.	ITEM NO.
REF	MODULE ECO HISTORY	B-MH-H851-0-6	5
REF	ASSY HOLE LAYOUT	C-AH-H851-0-5	4
REF	CIRCUIT SCHEMATIC	B-CS-H851-0-1	3
I	ETCH BOARD	D-IA-5008903-0-0	2
I	CONN BLOCK, 72 PIN	I2I0152-	1

PARTS LIST

DRN.	DATE	CHK'D.	DATE	ENG.	DATE	PROJ. ENG.	DATE	PROD.	DATE
H. Flanigan	7/23/70	S. Pines	8/13/70	J. Pines	8-13-70	J. Pines	8-13-70	J. Pines	8-13-70

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

H851 EDGE CONNECTOR

SIZE CODE	NUMBER	REV.
B UA	H851-0-0	B

SHEET 1 OF 1

DEC FORM NO. DRB 100

QTY.	DESCRIPTION	PART NO.	ITEM NO.
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DRN.	DATE	EQUIPMENT
31-1-1	3/21/72	

[illegible]

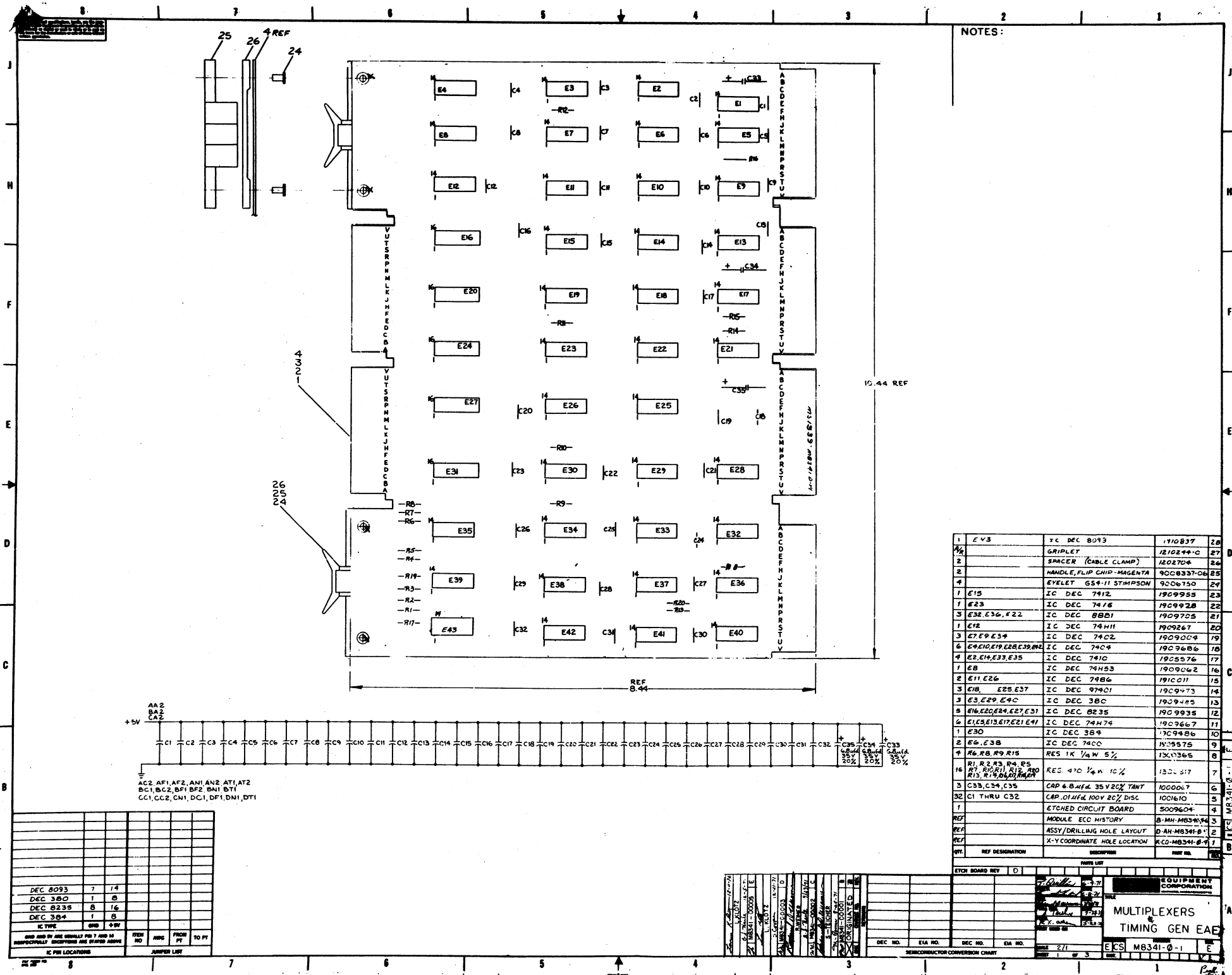
2	1
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DEC FORM NO.
DRB 100

FIRST USED ON OPTION/MODEL
H851

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
~~PRECISION~~ ANGLES
~~STANDARD~~ ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP
CORNERS

FINISH 11



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NOTES:

1. IF ANY CHANGES ARE TO BE MADE TO THIS PRINT FIRST CHECK WITH PURCHASE SPEC'S A-PS-23-001A1 AND A-SP-23-002A1.

ROM 1
ENABLE IF MAJOR STATE = F OR E
EIR 3 → A
EIR 2 → B
EIR 1 → C
EIR 0 → NEW → D
EXECUTE → E

ROM 2
ENABLE IF MAJOR STATE = F
EIR 3 → A
EIR 2 → B
EIR 1 → C
EIR 0 → D
OLD → E

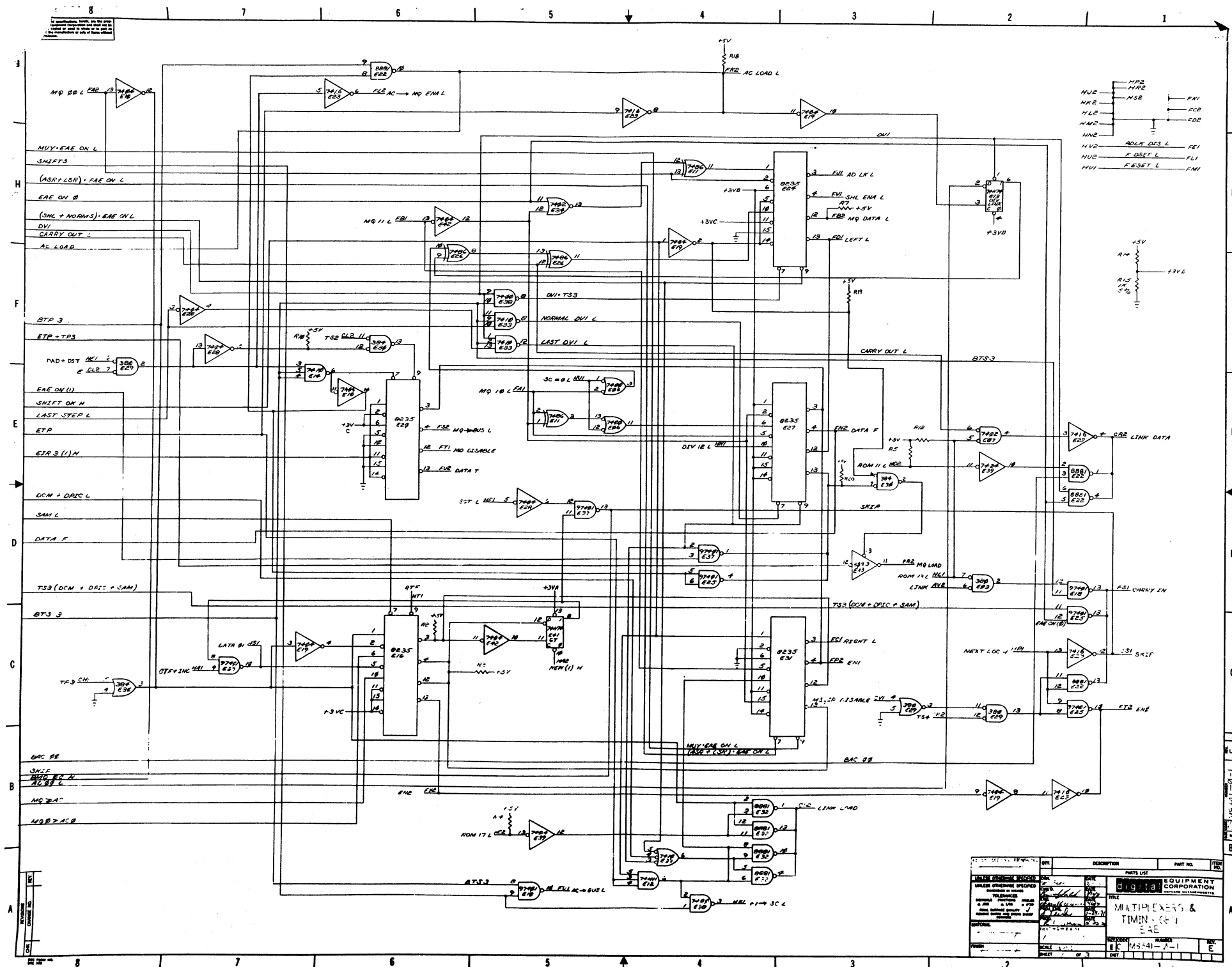
FUNCTION	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	OCTAL
F - NOP	1	1	1	1	1	1	1	1	377
F - ACS + SCL	1	1	1	1	1	1	1	1	377
F - MUY	1	1	1	1	0	0	1	1	371
F - DVI	1	1	1	1	1	1	1	1	377
F - NWI	0	1	1	0	0	0	1	1	143
F - SHL	1	1	1	1	1	1	1	1	377
F - ASR	0	1	1	1	0	0	1	1	171
F - LSR	1	1	1	1	0	0	1	1	371
F - SCA	1	1	1	1	1	1	1	1	377
F - DAD	1	1	1	1	1	1	1	1	371
F - DST	1	1	1	1	0	0	1	1	377
NOP	1	1	1	1	1	1	1	1	377
F - DPSZ	1	1	1	1	1	1	1	1	377
F - DPIC	1	0	0	1	1	0	0	1	231
F - DCM	1	0	0	1	1	0	0	1	231
F - SAM	1	1	0	1	0	0	1	1	331
E - NOP	1	1	1	1	1	1	1	1	377
E - SCL	1	1	1	1	1	1	0	1	376
E - MUY	1	0	1	1	0	1	1	1	267
E - DVI	1	0	1	0	0	0	1	1	241
NOT USED	0	1	1	0	0	0	1	0	X
E - SHL	1	1	1	1	0	1	1	0	142
E - ASR	1	1	1	1	0	1	1	0	366
E - LSR	1	1	1	1	0	1	1	0	366
NOT USED	1	1	0	1	1	0	1	1	X
E - DAD	1	1	1	1	1	1	1	1	331
E - DST	1	1	1	1	1	1	1	1	377
NOT USED	1	1	1	1	1	1	1	1	X
NOT USED									X
NOT USED									X
NOT USED									X

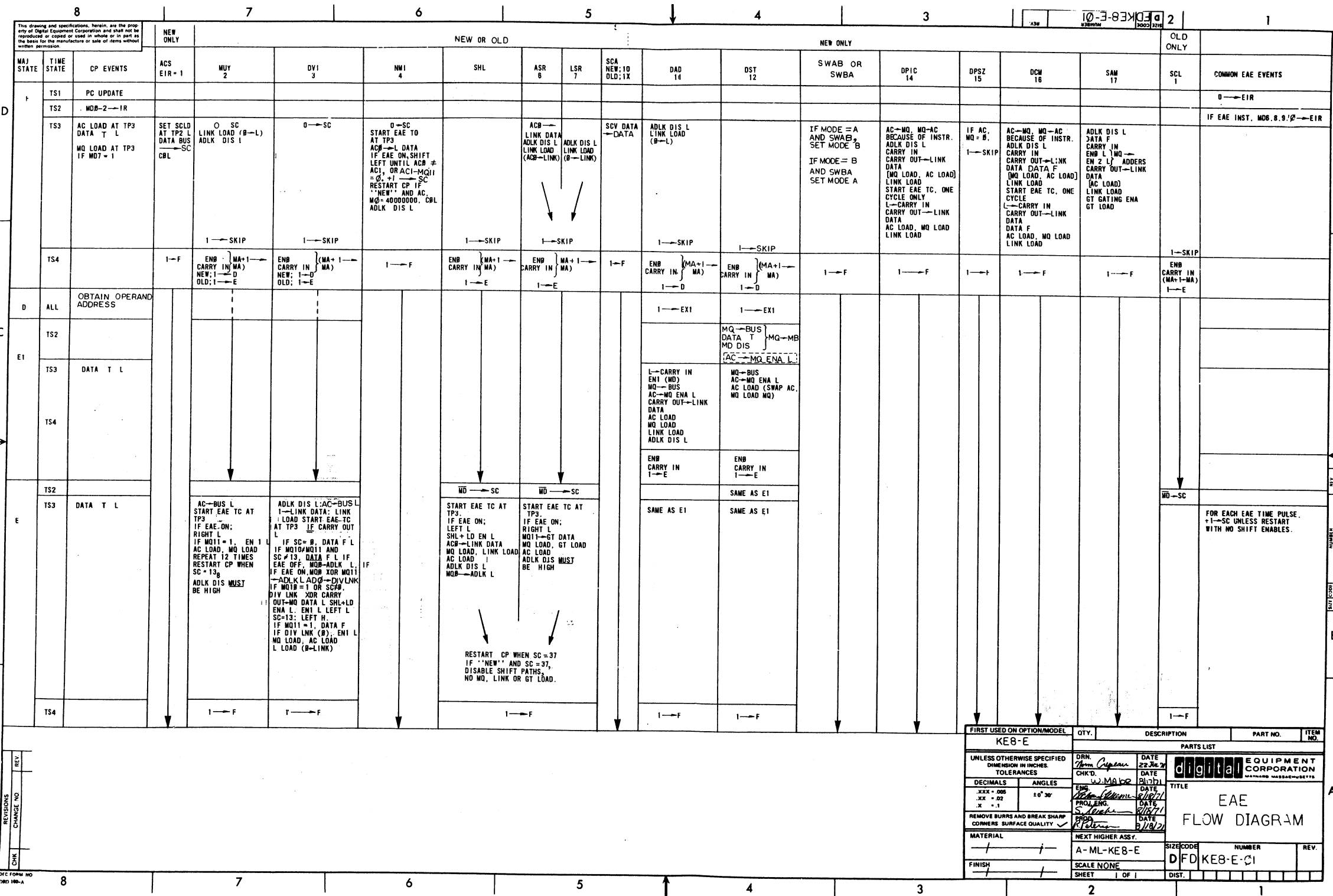
FUNCTION	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	OCTAL
NOP	1	1	1	1	1	1	1	1	377
ACS	1	1	1	1	1	1	1	1	177
NEW MUY	1	1	0	1	1	0	1	1	331
NEW DVI	1	1	0	1	1	0	0	1	331
NMI	1	1	0	1	1	1	1	1	337
SHL	1	1	1	1	1	0	1	0	372
ASR	1	1	1	1	1	0	1	0	372
LSR	1	1	1	1	1	0	1	0	372
SCA	1	1	1	1	0	1	1	1	367
DAD	1	1	1	1	1	0	0	1	371
DST	1	1	1	1	1	0	0	1	371
NOP	1	1	1	1	1	1	1	1	377
DPSZ	1	1	1	0	1	1	1	1	357
DPIC	1	0	1	1	1	1	1	1	277
DCM	1	0	1	1	1	1	1	1	277
SAM	1	0	1	1	1	1	1	1	277
NOP	1	1	1	1	1	1	1	1	377
SCL	1	1	1	1	1	1	0	1	372
OLD MUY	1	1	0	1	1	0	1	1	332
OLD DVI	1	1	0	1	1	0	0	1	332
NMI	1	1	0	1	1	1	1	1	337
SHL	1	1	1	1	1	0	1	0	372
ASR	1	1	1	1	1	0	1	0	372
LSR	1	1	1	1	1	0	1	0	372
SCA	1	1	1	1	0	1	1	1	367
SCA - SCL	1	1	1	1	0	0	1	0	362
SCA - OLD MUY	1	1	0	1	0	0	1	0	322
SCA - OLD DVI	1	1	0	1	0	0	0	1	322
SCA - NMI	1	1	0	1	0	1	1	1	327
SCA - SHL	1	1	1	1	0	1	1	0	362
SCA - ASR	1	1	1	1	0	1	1	0	362
SCA - LSR	1	1	1	1	0	1	1	0	362

B INDICATES ACB → LINK DATA AT TS3
B INDICATES TO SLOW → ADD (NOT MERELY SHIFT)
B INDICATES CARRY COUPLE AT TS3 (L → CARRY IN, CARRY OUT → DATA)
B INDICATES LEFT SHIFT
B INDICATES A SHIFT OPERATION
B DISABLES CPU ADDER LINK GATING
B INDICATES LINK LOAD AT TP3
B INDICATES LOAD SC AT TP2

B INDICATES ACS
B INDICATES DCM+SAM+DPIC
B INDICATES B → SC AT F - TP3
B INDICATES DPSZ
B INDICATES SCA
B INDICATES MA → I → MA, I → SKIP
B INDICATES DSET
B INDICATES ESET

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KEB-E				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>John Capron</i>	DATE <i>2/24/79</i>	digital EQUIPMENT CORPORATION NATURAL MASSACHUSETTS
DECIMALS ANGLES		CHK'D. <i>W. M. M. M.</i>	DATE <i>2/24/79</i>	
XXX - 005 XX - 02 X - 1		ENG. <i>John Capron</i>	DATE <i>2/24/79</i>	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROJ. ENG. <i>John Capron</i>	DATE <i>2/24/79</i>	
MATERIAL		NEXT HIGHER ASSY.		
FINISH		SCALE NONE		
SHEET 1 OF 1		DIST		
A-ML-KEB-E		NUMBER		REV
D F D K E 3 - E - 02		D F D K E 3 - E - 02		A





FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
KE8-E					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		PARTS LIST			
DRN. <i>Tom Capen</i>	DATE <i>22 Jan 77</i>	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS			
CHK'D. <i>W. M. B. G.</i>	DATE <i>8/17/71</i>				
ENG. <i>W. M. B. G.</i>	DATE <i>8/17/71</i>				
PROL. ENG. <i>S. M. B. G.</i>	DATE <i>8/17/71</i>				
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY		TITLE EAE FLOW DIAGRAM			
MATERIAL		NEXT HIGHER ASSY.		SIZE CODE	NUMBER
FINISH		A-ML-KE8-E		DIFDKE8-E-01	REV.
SHEET 1 OF 1		SCALE NONE		DIST.	

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 2/15/72

TITLE KE8E ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>Louis H. G.</i>	APPD <i>John M. Conway</i>	SIZE A	CODE SP	NUMBER KE8-E-0-4	REV
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DEC 16-(327)-1071-N971
DRA 107

1 of 2

ENGINEERING SPECIFICATION

000000

CONTINUATION SHEET

TITLE KE8E ACCEPTANCE PROCEDURE

- 1.Ø Equipment Required
 - A. PDP-8E or PDP-8M
 - B. M8340
 - C. M8341
 - D. 3-H851's
 - E. Teletype
 - F. Maindec-8E-DØLB-D-PB KE8E Instruction Test 1
 - G. Maindec-8E-DØMB-D-PB KE8E Instruction Test 2
 - H. Maindec-8E-DØRA-D-PB KE8E Extended Memory Exerciser
- 2.Ø Check that the M8340 and M8341 have:
 - A. Proper circuit revision.
 - B. Day code.
- 3.Ø Load and run the following diagnostics, consulting the Diagnostic Document for proper operating procedure.
 - A. Maindec-8E-DØLB for two complete program passes which will be indicated by "KE81" being typed cut twice.
 - B. Maindec-8E-DØMB for two complete program passes which will be indicated by "KE8E" being typed out twice.
 - C. Maindec-8E-DØRA for five complete program passes which will be indicated by "KE8EME" being typed out five times. At the beginning of the program, be sure to type the correct value defining the maximum amount of memory.
- 4.Ø Shipping Hardware
 - A. M8340
 - B. M8341
 - C. 3-H8351's
- 5.Ø Shipping Software
 - A. Libkit-8E-KE8E
 - B. KE8E Print Set
 - C. KE8E Maintenance Manual

DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

SIZE A	CODE SP	NUMBER KE8-E-0-4	REV
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SHEET 2 OF 2

DIGITAL EQUIPMENT CORPORATION WORLD-WIDE SALES AND SERVICE

146 Main Street, Maynard, Massachusetts, U.S.A. 01754
Telephone: From Metropolitan Boston: 648-8600 • Elsewhere: (617)-897-5111
TWX: 710-347-0212 Cable: DIGITAL MAYN Telex: 94-8457

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275 Wyman Street, Waltham, Massachusetts 02154
Telephone: (617)-890-0320/0330 TWX: 710-324-6919
WALTHAM
15 Lunda Street, Waltham, Massachusetts 02154
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CAMBRIDGE/BOSTON
899 Main Street, Cambridge, Massachusetts 02139
Telephone: (617)-491-6130 TWX: 710-320-1167
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130 Attens Creek Road, Rochester, New York 14618
Telephone: (716)-461-1700 TWX: 710-253-3078
CONNECTICUT
240 Pomeroy Ave., Meriden, Conn 06450
Telephone: (203)-237-8441/7466 TWX: 710-461-0054

MID-ATLANTIC — SOUTHEAST
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Telephone: (609)-452-2940 TWX: 510-685-2338
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95 Cedar Lane, Englewood, New Jersey 07631
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TWX: 710-991-9721
NEW JERSEY
1259 Route 46, Parsippany, New Jersey 07054
Telephone: (201)-335-3300 TWX: 710-987-8319

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Suite 1507 Huntington Station, New York 11746
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Station Square Three, Paoli, Pennsylvania 19301
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WASHINGTON
Executive Building
6811 Kenilworth Ave., Riverdale, Maryland 20840
Telephone: (301)-779-1600/752-8797 TWX: 710-826-9662

DURHAM/CHAPEL HILL
2704 Chapel Hill Boulevard
Durham, North Carolina 27707
Telephone: (919)-489-3347 TWX: 510-927-0912
ORLANDO
Suite 130, 7001 Lake Ellenor Drive, Orlando, Florida 32809
Telephone: (305)-851-4450 TWX: 810-850-0180
ATLANTA
2815 Clearview Place, Suite 100,
Atlanta, Georgia 30340
Telephone: (404)-451-3734/3735/3736 TWX: 810-757-4223

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81 Route de l'Aire
1211 Geneva 26, Switzerland
Telephone: 42 79 50 Telex: 22 683

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6311 Kingston Pike, Suite 21E
Knoxville, Tennessee 37919
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1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312)-498-2500 TWX: 910-686-0655
PITTSBURGH
400 Penn Center Boulevard
Pittsburgh, Pennsylvania 15235
Telephone: (412)-243-9404, TWX: 710-797-3657
CHICAGO
1850 Frontage Road, Northbrook, Illinois 60062
Telephone: (312)-498-2500 TWX: 910-686-0655

ANN ARBOR
230 Huron View Boulevard, Ann Arbor, Michigan 48103
Telephone: (313)-761-1150 TWX: 810-223-6053
INDIANAPOLIS
21 Beachway Drive — Suite G
Indianapolis, Indiana 46224
Telephone: (317)-243-8341 TWX: 810-341-3436
MINNEAPOLIS
Suite 111, 8030 Cedar Avenue South,
Minneapolis, Minnesota 55420
Telephone: (612)-854-6562-3-4-5 TWX: 910-576-2818

CLEVELAND
Park Hill Bldg., 35104 Euclid Ave.
Willoughby, Ohio 44094
Telephone: (216)-946-8484 TWX: 810-427-2608
ST. LOUIS
Suite 110, 115 Progress Pky., Maryland Heights,
Missouri 63043
Telephone: (314)-878-4310 TWX: 910-764-0831
DAYTON
3101 Kettering Blvd., Dayton, Ohio 45439
Telephone: (513)-299-7377 TWX: 810-459-1676
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6531 W. Capitol Drive, Milwaukee, Wisconsin 53222
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8855 North Stemmons Freeway
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Telephone: (214)-638-4880 TWX: 910-861-4000

HOUSTON
3417 Milam Street, Suite A, Houston, Texas 77002
Telephone: (713)-524-2961 TWX: 910-881-1651
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Vretenvagen 2, S-171 54 Solna, Sweden
Telephone: 98 13 90 Telex: 170 50
Cable: Digital Stockholm

CENTRAL (cont.)

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