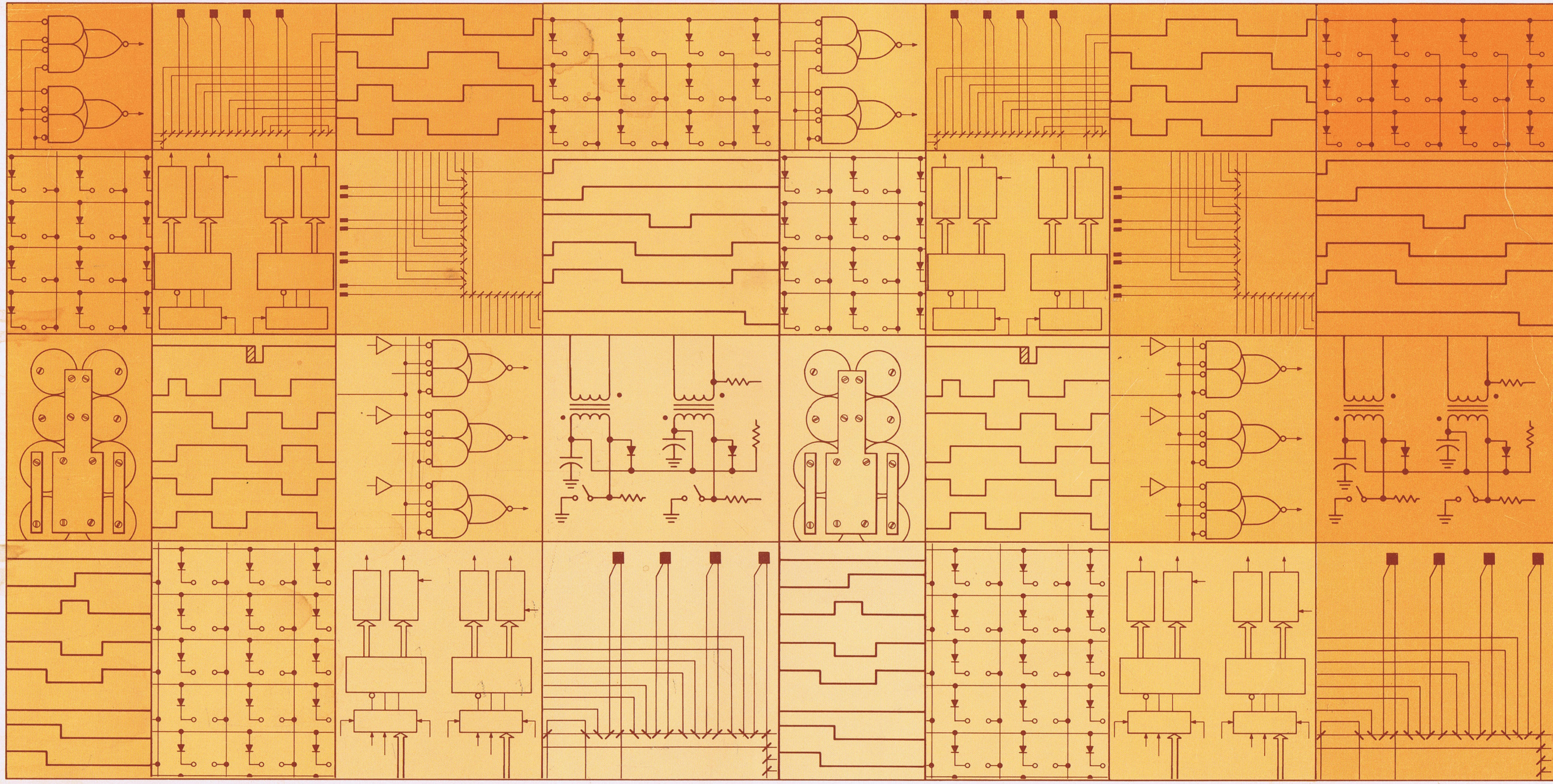


pdp8/e
pdp8/f & pdp8/m

MI8-E hardware
bootstrap loader
engineering drawings



**MI8-E hardware
bootstrap loader
engineering drawings**

MASTER DRAWING LIST

NO.	TITLE	UNIT VARIATIONS											
M18-E	BOOTSTRAP	M18-E	M18-EA	M18-EC	M18-ED	M18-EE	M18-EF	M18-EG	M18-EH	M18-EJ	M18-EK	M18-EL	M18-EM
		X	X	X	X	X	X	X	X	X	X	X	X

USED ON OPTIONS

PDP8-E	
PDP8-M	
PDP8-F	

REVISIONS

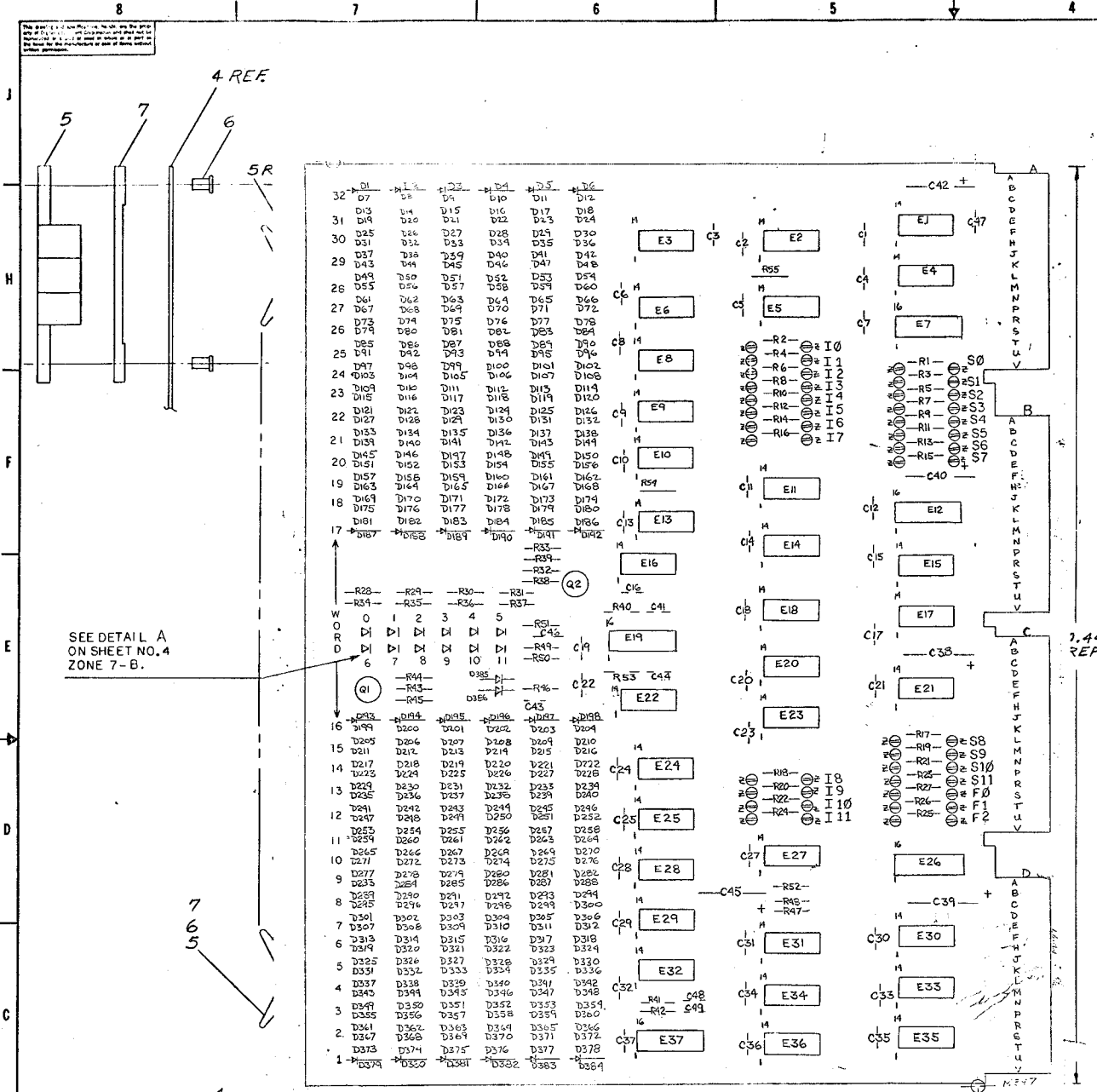
REV.	DATE	CHG. NO.	APP'D.
A	3/72	M18E-00001	G.M.
B	3/73	M18E-00002	G.F.
C	5/73	M18E-00003	G.F.
D	8/73	M18E-00004	G.F.

DRN GULICK	DATE 82471	TITLE
CHK'D. GULICK	DATE 82471	
ENG.	DATE	
PROJ. ENG.	DATE	
PROD. <i>R. S. Sullivan</i>	DATE 8-20-73	
FIRST USED ON PDP8-E		
SCALE NONE		
SHEET 1 OF 2		
SIZE CODE A ML	NUMBER M18-E	REV. D

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

BOOTSTRAP

PRINT SET	DWG. NO.	REV. NO. OF LET. SHEETS	TITLE	OPTION NO.
X	E-CS-M847-Ø-1	# 6	BOOTSTRAP LOADER	
X	A-PL-M18-E-Ø	B 1	PARTS LIST	
X	A-SP-M18-E-1	A 3	ENGINEERING SPECIFICATION	
	LIBKIT-8E-M18E	REF	SOFTWARE KIT LIST	
X	A-AL-M18-E-2	1	ACCESSORY LIST	
X	A-SP-M18-E-3	2	TEST PROCEDURE	
X	A-SP-M18-E-4	2	ACCEPTANCE PROCEDURE	
TITLE BOOTSTRAP				REV. D



- NOTES:**
1. DIODES ARE D664 UNLESS OTHERWISE INDICATED.
 2. CUT JUMPER OR DIODE TO ENCODE A 1.
 3. I JUMPERS DEFINE INITIAL LOADING ADDRESS.
 5. JUMPERS DEFINE PROGRAM STARTING ADDRESS.
 7. JUMPERS DEFINE INSTRUCTION, DATA FIELD.
- CAUTION: F2, F1, F0, CORRESPOND TO EMA0, EMA1, EMA2, RESPECTIVELY.
4. QUANTITY OF COMPONENTS REMAIN THE SAME EXCEPT OF THE AMOUNT OF DIODES, SHOWN ON PARTS LIST BELOW.

SEE DETAIL A ON SHEET NO. 4 ZONE 7-B.

7.44 REF

SEE NOTE 4
M847 VERSIONS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	DB2	WIRE #22AWG SOLID BUS	9107560-01	41
54		SPLIT LUG	9006735	40
2	E19, E37	I.C. DEC 74123	1910436	39
3	E14, E16, E34	I.C. DEC 7402	1909004	38
4	E11, E18, E22, E31	I.C. DEC 7474	1905547	37
3	E7, E12, E26	I.C. DEC B235	1909935	36
4	E6, E9, E25, E29	I.C. DEC 74164	1910041	35
3	E5, E13, E36	I.C. DEC 7400	1905575	34
6	E4, E15, E21, E23, E30, E33	I.C. DEC 8881	1909705	33
6	E3, E8, E10, E24, E28, E32	I.C. DEC 7404	1909686	32
3	E2, E20, E27	I.C. DEC 380	1909485	31
3	E1, E17, E35	I.C. DEC 384	1909486	30
2	Q1, Q2	TRANS. DEC 3009B	1503100	29
396	D1-D386	DIODE D664	1100114	28
1	R52	RESISTOR 15K 1/4W 5%	1300496	27
1	R48	RESISTOR 3K 1/4W 5%	1300492	26
1	R47	RESISTOR 1K 1/4W 5%	1300365	25
1	R50	RESISTOR 100 1/4W 5%	1300229	24
1	R51	RESISTOR 270 1/4W 5%	1301972	23
1	R53	RESISTOR 22K 1/4W 5%	1301808	22
1	R41	RESISTOR 20K 1/4W 5%	1302391	21
1	R45	RESISTOR 27 1/4W 10%	1301420	20
1	R44	RESISTOR 12 1/4W 10%	1301430	19
5	R43, R46, R49, R54, R55	RESISTOR 470 1/4W 10%	1300317	18
2	R40, R42	RESISTOR 10K 1/4W 5%	1300479	17
12	R28-R39	RESISTOR 5.6K 1/4W 5%	1301874	16
27	R1-R27	RESISTOR 6.8K 1/4W 5%	1301423	15
1	C46	CAP. 2700pf 100V 5%	1001637	14
1	C45	CAP. 33pf 10V 10%	1000076	13
1	C44	CAP. 150pf 100V 5%	1000019	12
1	C48	CAP. 68pf 100V 5%	1000014	11
2	C41, C49	CAP. 27pf 100V 5%	1001739	10
4	C38, C39, C40, C42	CAP. 6.8K 50V 20%	1000067	9
4	C1-C3, C37, C41, C43	CAP. 100V 20%	1001610	8
4		SPACER (CABLE CLAMP)	1502902	7
15		ETHER BRACKET THOMPSON	9006739	6
1		HANDLIT RIFLE BARREL	9008387	5
1		ETCHED CIRCUIT BOARD	5009367	4
REF		MODULE HISTORY LIST	8-M-1847-1	3
REF		ASSY DRILLING HOLE LAYOUT	7-M-1847-1	2
REF		XY COORDINATE HOLE LOC.	1-CO-1847-1	1

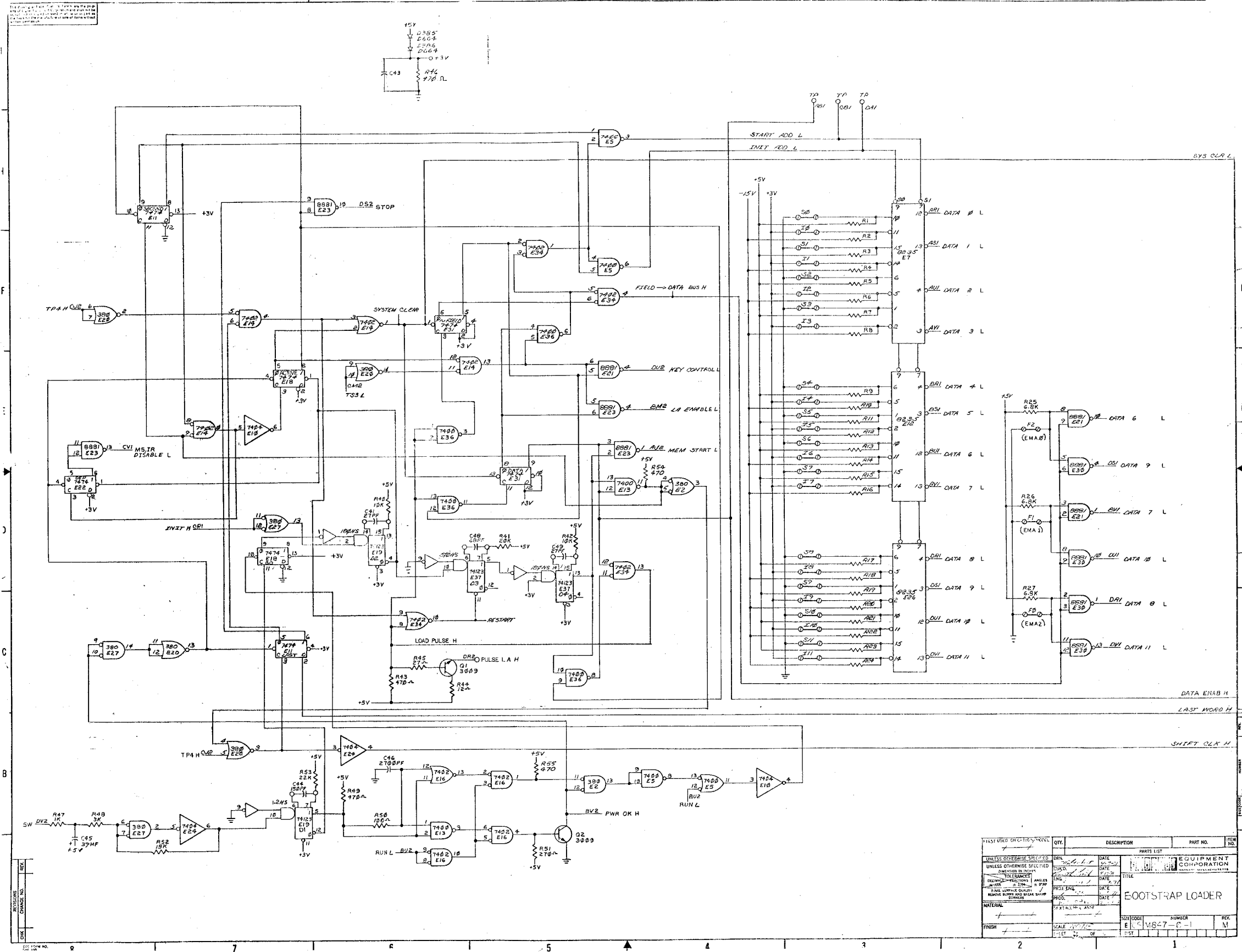
REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
DB2		WIRE #22AWG SOLID BUS	9107560-01	41
C41, C49		CAP. 27pf 100V 5%	1001739	10
C38, C39, C40, C42		CAP. 6.8K 50V 20%	1000067	9
C1-C3, C37, C41, C43		CAP. 100V 20%	1001610	8
		SPACER (CABLE CLAMP)	1502902	7
		ETHER BRACKET THOMPSON	9006739	6
		HANDLIT RIFLE BARREL	9008387	5
		ETCHED CIRCUIT BOARD	5009367	4
		MODULE HISTORY LIST	8-M-1847-1	3
		ASSY DRILLING HOLE LAYOUT	7-M-1847-1	2
		XY COORDINATE HOLE LOC.	1-CO-1847-1	1

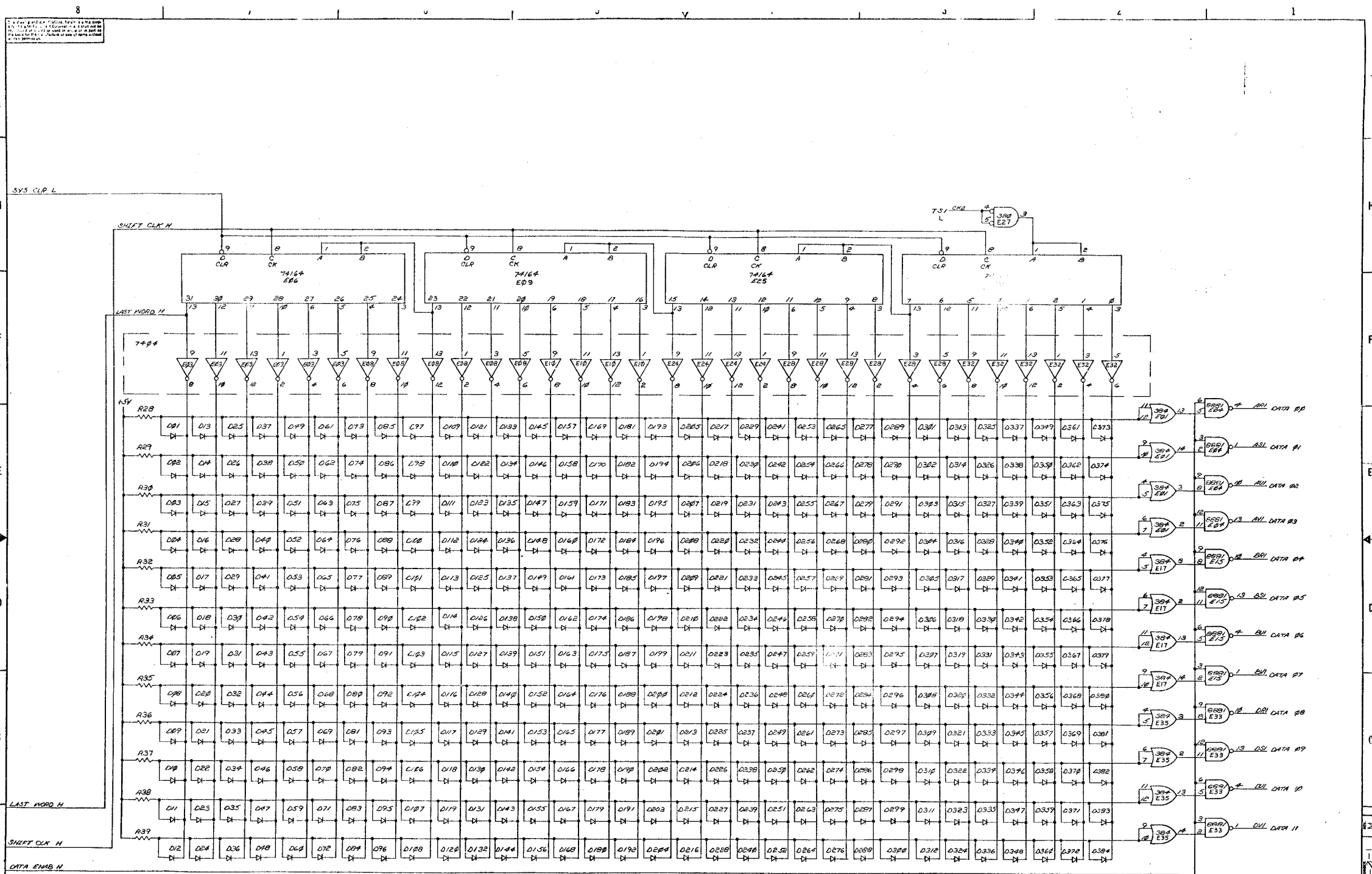
AC1, BC1, CC1, DC1
AC2, BC2, CC2, DC2
AF1, BF1, CF1, DF1
AF2, BF2, CF2, DF2
AN1, BN1, CN1, DN1
AN2, BN2, CN2, DN2
AT1, BT1, CT1, DT1
AT2, BT2, CT2, DT2

SEE NOTES 2/3

EQUIPMENT CORPORATION
BOOTSTRAP LOADER

REV	DATE	DESCRIPTION
1	11/20/61	ISSUED FOR PRODUCTION
2	1/20/62	REVISED TO CORRECT ERROR
3	1/20/62	REVISED TO CORRECT ERROR





1. ALL DIMENSIONS ARE IN MILLIMETERS
 2. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY
 3. DIMENSIONS IN SQUARE BRACKETS ARE FOR INFORMATION ONLY
 4. DIMENSIONS IN CIRCLES ARE FOR INFORMATION ONLY

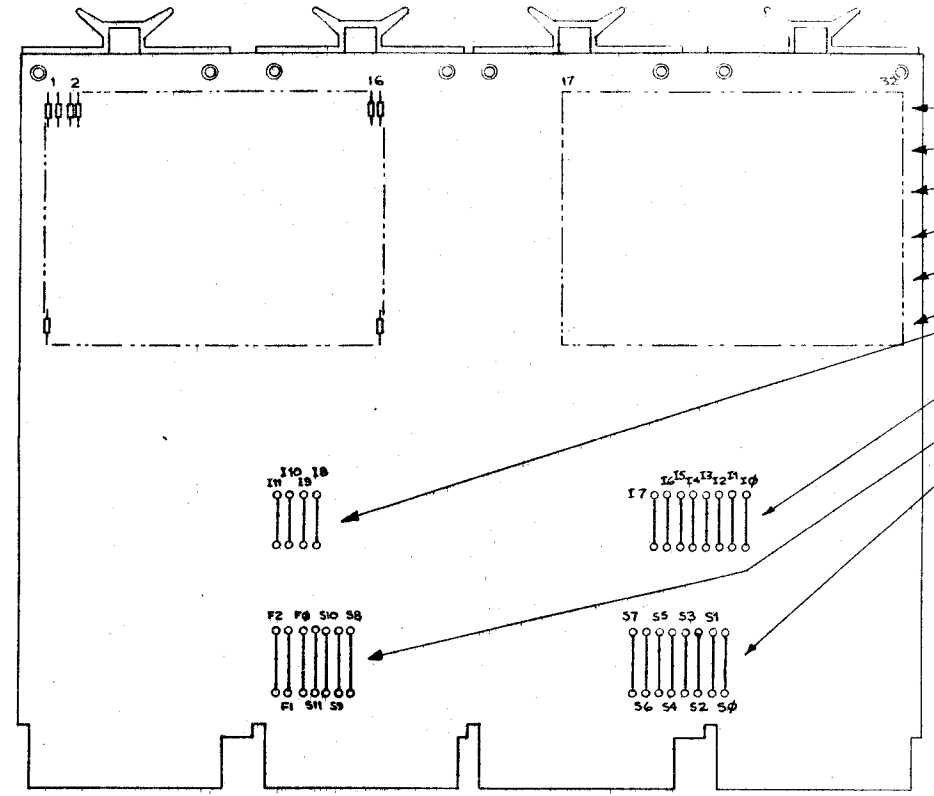
REV. 1
 CHANGE NO. 1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	74164 EB6		
1	74164 EB9		
1	74164 EB2		
1	74164 EB5		
1	7494		
1	309 E11		
1	309 E12		
1	309 E13		
1	309 E14		
1	309 E15		
1	309 E16		
1	309 E17		
1	309 E18		
1	309 E19		
1	309 E20		
1	309 E21		
1	309 E22		
1	309 E23		
1	309 E24		
1	309 E25		
1	309 E26		
1	309 E27		
1	309 E28		
1	309 E29		
1	309 E30		
1	309 E31		
1	309 E32		
1	309 E33		
1	309 E34		
1	309 E35		

EQUIPMENT CORPORATION
 TITLE: ECOT-TRAP LOADER
 SCALE: 1:1
 SHEET: 1 OF 8

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X= REMOVE JUMPER OR DIODE
O= INSTALL



MODULE: M847YA (OPTION M18-EA) (HIGH, LOW RIM)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
OX	XO	OX	OX	XO	XO	XX	XX	XO	XO	YO	YO	YO	XO	OX		OX	XX	OX	OX	OX	YO	OX	XX	OX	XX	OX	XO	XO	XX	XX	OX	OX
OX	XO	XX	XX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	XX	OX	OX	OX	OX	YO	OX	XX	XO	XX	XX	XX	XX	XX	XX	OX	OX
XO	XO	OX	XX	XO	OX	XO	XX	OX	XX	OX	XX	OX	XX	OX	XO	YO	XX	XO	OX	XX	OX	XO	OX	XO	OX	XX	XX	XX	XX	XX	XX	XX
XO	XX	XO	XO	XO	OX	OX	OX	OX	OX	OX	OX	OX	YO	YO	XO	OX	OX	XO	YO	XO	OX	XO	OX	XO	OX	XX	XO	XO	OX	XX	XX	XX
OX	XX	XX	XX	OX	OX	OX	OX	OX	OX	OX	OX	XX	XX	XX	XO	OX	XX	XO	XO	OX	XO	OX	OX	OX	OX	OX	OX	XX	XX	XX	XX	
OX	OX	OX	OX	OX	OX	XO	OX	XX	XX	XX	XX	XX	XX	XX	XX	XO	XX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	

III Iφ
XXXX XOXXXXXX (# of X's = 22)
000XXXX XOXXXXXX (# of O's = 5)
F2 Fφ SII Sφ

MODULE: M847YC (OPTION M18-EC) (TCφ8 DECTAPE)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
OX	XX	XO	XX	XX	XX	XX	XO	XO	XO	XO	XX	XX	XX	XX		OX	OX	XX	XX
OX	XX	XO	XX	XX	XO	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	XO	XX	XO
OX	XO	XX	OX	XO	OX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	OX	OX	XO	XX
OX	XX	XO	XX	OX	OX	OX	OX	OX	OX	OX	OX	OX	XX	XX	XX	OX	OX	OX	OX
OX	OX	OX	XX	OX	OX	OX	XX	OX	XX	OX	XX	XX	OX	OX	OX	OX	OX	OX	XX
OX	OX	OX	OX	XX	OX	OX	OX	XX	OX	XX	OX	OX	OX	XX	XX	OX	OX	OX	OX

00XX OXXOXXXX (# of X's = 16)
00000XX OXXOXXXX (# of O's = 11)

MODULE: M847YD (OPTION M18-ED) (RK8 DISK)

1	2	3	4	5	6	7	ALL "X"		ALL "X"	
OX	XX	XX	OX	OX	OX	OX				
OX	OX	OX	XO	OX	XX	XO				
OX	OX	OX	XO	OX	OX	OX				
OX	OX	OX	XO	OX	OX	OX				
OX	OX	OX	OX	OX	OX	OX				
OX	OX	OX	OX	OX	OX	OX				

XX00 X0000000 (# of X's = 6)
000XX00 X0000000 (# of O's = 21)

MODULE: M847YE (OPTION M18-EE) (TYPESET RIM)

1	2	3	4	5	6	7	8	9	10	11	12	13	ALL "X"		ALL "X"	
XX	OX	OX	XX	OX	OX	OX	OX	XX	XX	XX	XO	XX				
XX	OX	OX	XO	OX	OX	OX	XX	OX	OX	OX	OX	OX				
XX	XO	XO	OX	OX	OX	OX	XX	XX	XO	XX	XO	XO				
OX	XO	OX	OX	XO	XO	OX	OX	OX	XX	XO	OX	OX				
OX	OX	OX	OX	XO	XO	XO	OX	XX	XX	XX	XX	XX				
XX	OX	XO	OX	OX	OX	OX	OX	OX	OX	XX	OX	OX				

OXXX OXXXXXXX (# of X's = 19)
000000X XXXXXXXX (# of O's = 8)

6	▽	▽	0
7	▽	▽	1
8	▽	▽	2
9	▽	▽	3
10	▽	▽	4
11	▽	▽	5

DETAIL A
BIT LOCATIONS
IN EACH WORD

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN 3/2/70	DATE 7/15/71	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS .XXX = .005 .XX = .02 .X = .1	CH'D.	DATE	TITLE BOOTSTRAP LOADER	
ANGLES ±0° 30'	ENG.	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROJ. ENG.	DATE		
MATERIAL	PROD.	DATE		
FINISH	NEXT HIGHER ASSY.	SCALE	SIZE CODE	NUMBER
		4 OF 6	DCS M847-0-1	REV. M

REVISIONS	REV.
CHANGE NO.	
CHK	

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MODULE: M847YF (OPTION MI8-EF) (EDUSYSTEM, LOW)

Table with 32 columns and 5 rows of binary data (0s and Xs) for module M847YF.

XXX\ XOX XXX XX (# OF X'S = 22)
OOO XXX X XOX XXX XX (# OF O'S = 5)

MODULE: M847YG (OPTION MI8-EG) (EDUSYSTEM, HIGH)

Table with 32 columns and 5 rows of binary data (0s and Xs) for module M847YG.

XXX\ XOX XXX XX (# OF X'S = 22)
OOO XXX X XOX XXX XX (# OF O'S = 5)

MODULE: M847YH (OPTION MI8-EH) (TD-8E)

Table with 32 columns and 5 rows of binary data (0s and Xs) for module M847YH. Includes 'ALL X'S' and 'ALL O'S' labels.

OO XX OO XX XX (# OF X'S = 10)
O OO OO OO OO XX (# OF O'S = 17)

MODULE: M847YJ (OPTION MI8-EJ) (RK8-E)

Table with 32 columns and 5 rows of binary data (0s and Xs) for module M847YJ.

OO XX OO OO OO OO (# OF X'S = 5)
O OO XO XX OO OO OO OO (# OF O'S = 22)

MODULE: M847YK (OPTION MI8-EK) (DC72:CR8-F)

Table with 32 columns and 5 rows of binary data (0s and Xs) for module M847YK. Includes 'DONT CARE' and 'SEE LEFT' labels.

(# OF X'S = 59 + 288 = 347)
(# OF O'S = 37 + 288 = 325)

NOTE: IF BOARDS HAVE DIODES INSERTED ALREADY, DO NOT REMOVE DIODES IN THIS AREA. IF BOARDS ARE HAVING DIODES INSERTED, DO NOT INSERT DIODES IN THIS AREA.

MODULE: M847YL (OPTION MI8-EL) CAPS 8, CASSETTE

Table with 32 columns and 5 rows of binary data (0s and Xs) for module M847YL.

(# OF X'S = 200)
(# OF O'S = 184)

OO OO OX XO XX XX (# OF X'S = 15)
O CX OO CX XX XO XX XX (# OF O'S = 12)

(# OF X'S = 2)
(# OF O'S = 15)

OO OO OO OO OO OX
O OO OO OO OO OO OX

Parts list table with columns: FIRST USED ON OPTION/MODEL, QTY., DESCRIPTION, PART NO., ITEM NO. Includes digital EQUIPMENT CORPORATION logo and title ECOTRAFLUALER.

REVISIONS
CHANGE NO.
REV.
CHK

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MODULE: M847YM (OPTION M18-EM) (TYPESET DECTAPE)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
XX	XO	XX	XX	XO	XO	XO	XX	XX	OO	XX	XO	XX	XX	XX	OX	OO	OO	OX	OX	ALL "0"s													
XX	OO	OO	OX	OO	OX	OO	OO	OO	OO	XX	XX	OO	XX	XX	OO	OO	OO	OX	OX														
XX	OX	OO	OX	XX	XX	XX	OO	XX	OO	XX	XX	OX	OX	OX	OO	OO	OO	OX	OX														
XX	XX	OX	OX	XX	XX	XX	XX	XX	OO	XX	XX	OX	OX	OX	OX	OO	OO	OX	OX														
OX	XX	XX	OO	XX	XX	OX	XX	XX	OO	OX	OX	OX	OX	OX	OO	OO	OO	OO	OO														

(# of X's = 109)
(# of O's = 275)

OOOX XOXXXXXX (# of X's = 16)
OOOOOX XOXXXXXX (# of O's = 11)

REV	NO.
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'D.	DATE	TITLE	
.XXX = .005	ENG.	DATE	PART DEPT. PLAN	
.XX = .02	PROJ. ENG.	DATE		
X = .1	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE		
MATERIAL	PROJ.	DATE		
FINISH	NEXT HIGHER ASSY.		SIZE CODE	NUMBER
	SCALE NONE		D CS	M847-0-1
	SHEET 6 OF 6	DIST.		REV. M

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY KEN GULICK	CHECKED KEN GULICK	SECTION
DATE 8-24-71	DATE 8-24-71	1
ENG <i>[Signature]</i>	PROD R.K. <i>[Signature]</i>	ISSUED SECT.
DATE 8-19-71	DATE 8-30-71	1

QUANTITY / VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	E-CS-M847-Ø-1	BOOTSTRAP LOADER

MIS-E x (ALL)														

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
BOOTSTRAP	NONE	A PL	MIS-E-Ø	B	MISE-00003
SHEET 1 OF 1		DIST.			

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DIGITAL EQUIPMENT CORPORATION								
MAYNARD, MASSACHUSETTS								
ENGINEERING SPECIFICATION				DATE 12/10/71				
TITLE MI8-E PDP8/E BOOTSTRAP LOADER								
REVISIONS								
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE		
A	ECO CHANGE	MI8E 00003	KENT	3/73	<i>ME</i>	5-16-73		
ENG	<i>Greg Esser</i>	APPD	<i>Ken McCallum</i>		SIZE	CODE	NUMBER	REV
	A	SP	MI8-E-1		A			A

ENGINEERING SPECIFICATION	Digital	CONTINUATION SHEET																						
TITLE MI8-E PDP8/E BOOTSTRAP LOADER																								
<p>1.0 Overall Description</p> <p>The MI8-E option is a bootstrap loader for the PDP8/E. It automatically initializes the system, loads a Memory Address, a Field Address, deposits 32 words sequentially into memory, then loads a new Memory Address, the same Field Address and starts the 8/E.</p> <p>The loading of the Memory Address, Field Address, 32 words, and the new Memory Address, are all encoded by the clipping or insertion of diodes and jumpers. Removing a diode or jumper, in any case, place a "1" on the bus for that particular address or word.</p> <p>The MI8-E has been encoded for several versions of bootstraps. These versions are designated as i.e. MI8-EA, MI8-EC, MI8-ED, MI8-EF and so on. The documentation concerning these variations is available in the MI8-E or M847 print set (Reproduction).</p> <p>2.0 General Description</p> <p>2.1 Definition of Basic System</p> <p style="margin-left: 20px;">A. One M847 module</p> <p>2.2 List of Included Options</p> <table style="margin-left: 40px; border: none;"> <thead> <tr> <th style="text-align: left;"><u>Option</u></th> <th style="text-align: left;"><u>Designation</u></th> </tr> </thead> <tbody> <tr><td>MI8-E</td><td>Unencoded</td></tr> <tr><td>MI8-EA</td><td>Paper Tape</td></tr> <tr><td>MI8-EC</td><td>DEctape</td></tr> <tr><td>MI8-ED</td><td>RK8</td></tr> <tr><td>MI8-EE</td><td>Typeset</td></tr> <tr><td>MI8-EF</td><td>EDU Sys. Low</td></tr> <tr><td>MI8-EG</td><td>EDU Sys. High</td></tr> <tr><td>MI8-EH</td><td>TD8-E</td></tr> <tr><td>MI8-EJ</td><td>RK8-E</td></tr> <tr><td>MI8-EK</td><td>CR8-F (DC72 FIELD 1)</td></tr> </tbody> </table> <p>2.3 Mechanical Packaging</p> <p style="margin-left: 20px;">A. 8½" by 10½" Quad board</p>			<u>Option</u>	<u>Designation</u>	MI8-E	Unencoded	MI8-EA	Paper Tape	MI8-EC	DEctape	MI8-ED	RK8	MI8-EE	Typeset	MI8-EF	EDU Sys. Low	MI8-EG	EDU Sys. High	MI8-EH	TD8-E	MI8-EJ	RK8-E	MI8-EK	CR8-F (DC72 FIELD 1)
<u>Option</u>	<u>Designation</u>																							
MI8-E	Unencoded																							
MI8-EA	Paper Tape																							
MI8-EC	DEctape																							
MI8-ED	RK8																							
MI8-EE	Typeset																							
MI8-EF	EDU Sys. Low																							
MI8-EG	EDU Sys. High																							
MI8-EH	TD8-E																							
MI8-EJ	RK8-E																							
MI8-EK	CR8-F (DC72 FIELD 1)																							
SIZE	CODE	NUMBER	REV																					
A	SP	MI8-E-1	A																					

TITLE MI8-E PDP8/E BOOTSTRAP LOADER

2.4 Environmental Specifications

- A. Temperature: 32° to 130°F (0° to 55°C)
- B. Humidity: Maximum 90% Rel. No condensation.
- C. Power: +5 @ 710 ma
-15 @ 32 ma

2.5 General Performance Specification

Refer to 1971 and 1972 Small Computer Handbook

3.0 Specification of Vendor Supplied Equipment

Refer to Purchase Specification for component in question.

4.0 Programming

- A. Non-programmable

5.0 Interface Specifications

Interfaces to the OMNIBUS.

6.0 RELATED MODULES

In addition to the SW switch on the 8 console, the MI8-E can be started using a G753 Initialize Module and a suitable external switch. These are not supplied with or necessary for operation of the MI8-E.

SIZE	CODE	NUMBER	REV
A	SP	MI8-E-1	A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

LEGEND

D DOCUMENT
DN DOCUMENT CHANGE NOTICE
PA PAPER TAPE ASCII
PB PAPER TAPE BINARY
PM PAPER TAPE READ-IN-MODE

QUANTITY / VARIATION

MADE BY R. Allen DATE February 29, '72	CHECKED <i>[Signature]</i> DATE 2-27-72	SECTION
ENG <i>[Signature]</i> DATE 2-27-72	PROD <i>[Signature]</i> DATE 2-27-72	ISSUED SECT.

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	All Versions								KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1	E-CS-M847-0-1	Bootstrap Loader	1													
2	Dec-8E-HR2B-D-MI8	MI8-E Maintenance Manual	1													
3	LibKit-8E-MI8E	Library Kit, MI8-E	1													
4	A-ML-MI8-E	Print Set	1													

TITLE	MI8-E ACCESSORY List	ASSY. NO.	SHEET 1 OF 1	SIZE CODE	A AL	NUMBER	MI8-E-2	REV.	ECO NO
				DIST.					

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DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 2/29/72

TITLE MI8-E TEST PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG R. ALLEN	APPD R. K. Allen	SIZE A	CODE SP	NUMBER MI8-E-3	REV
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ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE MI8-E TEST PROCEDURE

A. Purpose:

To define the procedure in testing an MI8-E Bootstrap Loader.

B. Test Hardware:

1. A PDP8/E computer (4K)
2. ASR-33 Teletype
3. M847 to be tested

C. Test Software:

Maindec-8E-D1IB

D. Test Procedure:

1. Make sure M847 has latest ECO installed.
2. Check for date, code, and ECO Rev letter (stamps on module handle).
3. Check for obvious Q.C. violations of module.
4. Install M847 to be tested in PDP8/E.
5. Load Maindec-8E-D1IB via Binary Loader. Refer to Diagnostic document for starting procedure.
6. Run the MI8-E for the minimum of five passes.
7. Run MI8-E under heat for thirty minutes. During the thirty minute duration, run MI8-E for another five passes using the Maindec program. Run at 130°F.
8. MI8-E is considered accepted after running the above procedure correctly.

	SIZE A	CODE SP	NUMBER MI8-E-3	REV
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MAYNARD, MASSACHUSETTS**

ENGINEERING SPECIFICATION

DATE 2/29/72

TITLE MI8-E ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Greg Esser	APPD <i>RA Wame</i>	SIZE A	CODE SP	NUMBER MI8E-4	REV
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ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE MI8-E ACCEPTANCE PROCEDURE

A. Purpose

To define the procedure used to accept an MI8-E Bootstrap Loader for shipment.

B. Test Hardware

1. A PDP8/E computer (4K)
2. ASR-33 Teletype
3. M847 (module to be accepted)

C. Test Software

1. Maindec-8E-DLIB

D. Special Equipment

1. None

E. Procedure

1. Check to see that the latest ECO is installed on the M847 to be accepted.
2. Perform Q.C. inspection.
3. Check M847 for correct version of diodes specified on Customer Requisition.
4. Install M847 in PDP8/E test computer.
5. Load Maindec-8E-DLIB via Binary Loader. Refer to Diagnostic for Starting Procedure.
6. The MI8-E is considered accepted after running the Maindec for a minimum of ten passes.

F. Shipping Hardware

1. M847

G. Shipping Software

1. MI8-E Customer Print Set
2. Maintenance Manual
3. LIBKIT MI8-E

SIZE A	CODE SP	NUMBER MI8E-4	REV
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