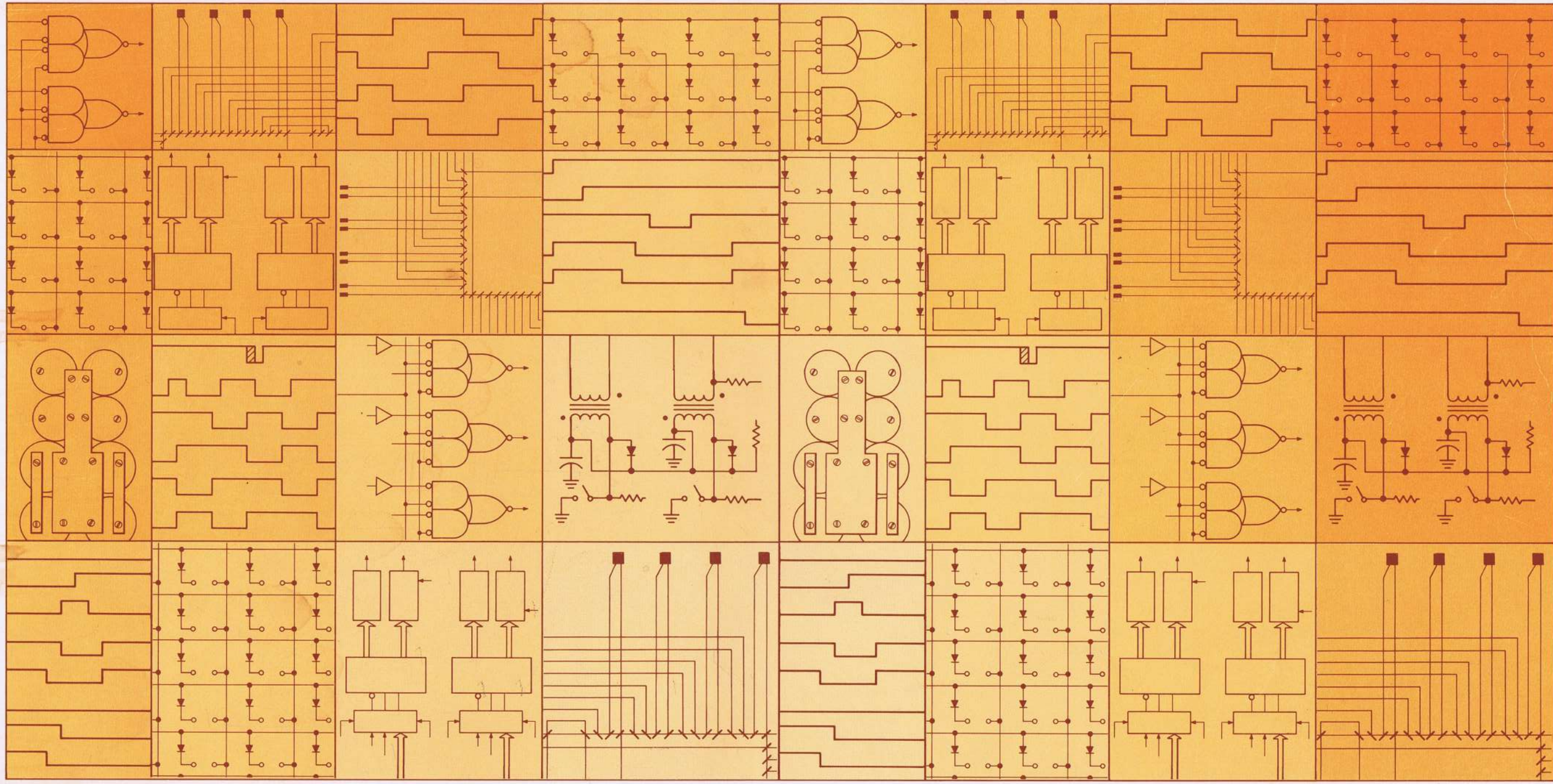


pdp8/e  
pdp8/f & pdp8/m

MI8-E hardware  
bootstrap loader  
engineering drawings



**M18-E hardware  
bootstrap loader  
engineering drawings**

# MASTER DRAWING LIST

MAINTENANCE MANUALS		UNIT VARIATIONS												
		MI8-E	MI8-EA	MI8-EC	MI8-ED	MI8-EE	MI8-EF	MI8-EG	MI8-EH	MI8-EJ	MI8-EK	MI8-EL	MI8-EM	
NO.	TITLE													
MI8-E	BOOTSTRAP	X	X	X	X	X	X	X	X	X	X	X	X	

USED ON OPTIONS	
PDP8-E	
PDP8-M	
PDP8-F	

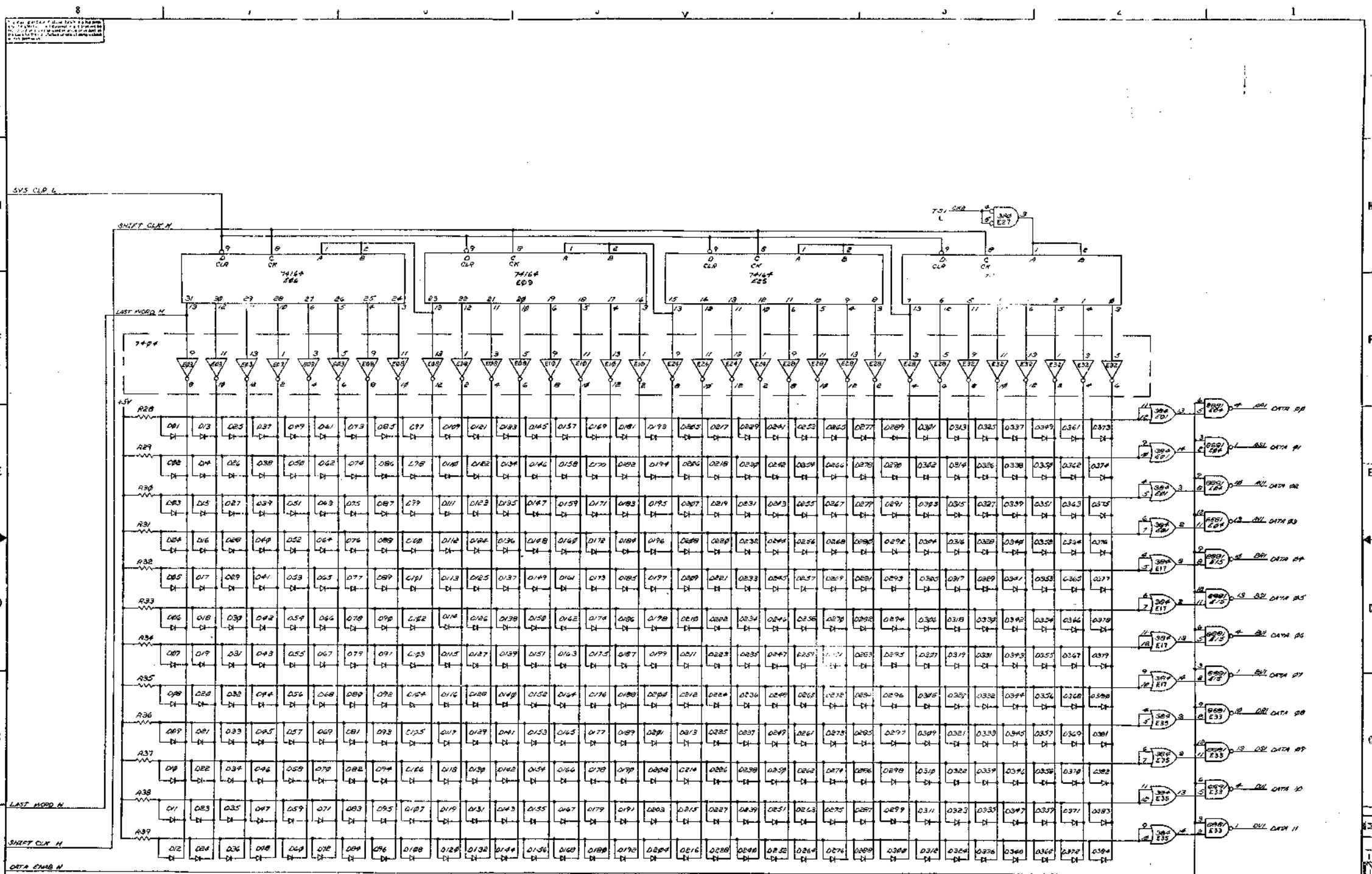
REV.	DATE	CHG. NO.	APP'D.	G.E.	G.E.	G.E.	DRN.		DATE		<b>digital</b> EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
							GULICK	GULICK	82471	82471				
				MI8E-00001	MI8E-00002	MI8E-00003	MI8E-00004	ENG.	DATE	TITLE  BOOTSTRAP				
				3/72	3/73	5/73	8/73		8-17-72					
								PROJ. ENG.	DATE	SIZE	CODE	NUMBER	REV.	
								PROD.	DATE	A	ML	MI8-E	D	
								FIRST USED ON						
								PDP8-E						
								SCALE	NONE					
								SHEET	1 OF 2					

PRINT SET					DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO.
MI8-E									
X					E-CS-M847-0-1	#	6	BOOTSTRAP LOADER	
X					A-PL-MI8-E-0	B	1	PARTS LIST	
X					A-SP-MI8-E-1	A	3	ENGINEERING SPECIFICATION	
					LIBKIT-8E-MI8E		REF	SOFTWARE KIT LIST	
X					A-AL-MI8-E-2		1	ACCESSORY LIST	
X					A-SP-MI8-E-3		2	TEST PROCEDURE	
X					A-SP-MI8-E-4		2	ACCEPTANCE PROCEDURE	

TITLE	BOOTSTRAP	SHEET	2	OF	2	SIZE	CODE	NUMBER	REV.
		A	ML	MI8-E	D				







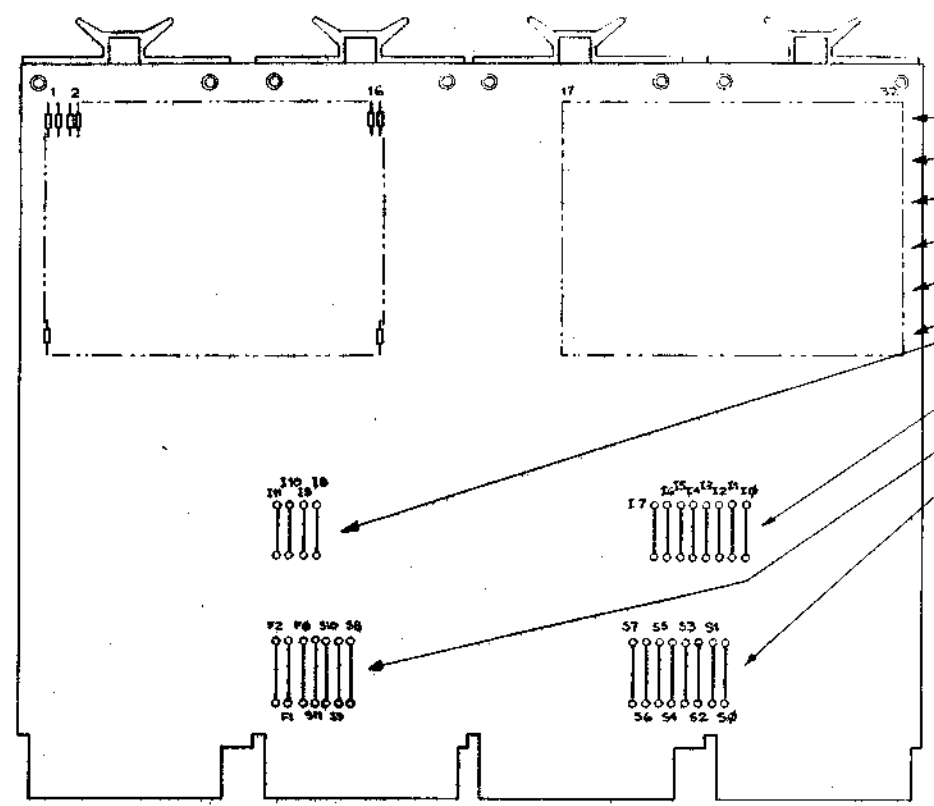
REV.	DESCRIPTION	DATE	BY
1	ISSUED		
2	REVISED		
3	REVISED		
4	REVISED		
5	REVISED		
6	REVISED		
7	REVISED		
8	REVISED		
9	REVISED		
10	REVISED		
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97	REVISED		
98	REVISED		
99	REVISED		
100	REVISED		

EQUIPMENT CORPORATION  
 BOGT TRAP LOADER

REVISED  
 DATE

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X - REMOVE JUMPER OR DIODE  
O - INSTALL



MODULE: M847YA (OPTION M18-EA) (HIGH DENSITY 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	OX	OX	XO	XO	XO	XO	XO	XO	XO	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX
OX	XO	OX	OX	XO	XO	OX	OX	XO	XO	XO	XO	XO	XO	XO	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	
XO	XO	OX	OX	XO	XO	OX	OX	XO	XO	XO	XO	XO	XO	XO	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	
XO	OX	XO	XO	XO	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	
OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	OX	

III 1φ  
XXXX XOXXXXXX (# of X's = 22)  
000XXXX XOXXXXXX (# of O's = 5)  
F2 FφSII Sφ

MODULE: M847YC (OPTION M18-EC) (TCØ8 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	XX	OO	OO	XX	XX
OX	XX	XO	XX	XX	XO	OX	OO	XX	OO	XX	XO	XX	XO	OX	OX	OO	XO	XX	XX
OX	XO	XX	OX	XO	OX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	OO	OO	XO	XX
OX	XX	XO	XX	OX	OO	OO	XO	OX	XO	OX	XO	XX	XO	XX	XX	OO	OO	OX	XX
OX	OX	OX	XX	OX	OX	OX	XX	OX	XX	OX	XX	XX	OX	OX	OX	OO	OO	OX	XX
OO	OX	OX	OX	XX	OX	OO	OX	XX	OX	OX	XX	OX	OX	OX	XX	OO	OO	XX	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
OX	XX	XX	OX	OX	OX	OX
OX	OX	OX	XO	OX	XX	XO
OO	XO	OO	OX	OX	XO	XX
XO	OX	XX	XO	OO	OX	OO
XO	OX	OX	OO	OX	XX	OO
XO	XX	XX	XO	OO	XX	XO

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
XX	OX	OX	XX	OX	OX	OX	OX	XX	XX	XX	XO	XX
XX	OX	OX	XO	OX	OX	OX	XX	OO	OO	OO	XX	OO
XX	XO	XO	OX	OX	XO	OX	XX	XX	XO	XX	XO	OX
OX	XO	OO	OO	XO	XO	OO	OX	XO	XX	XO	OO	XO
OX	OO	OO	OX	XO	XO	OO	XX	XX	XX	XX	XX	XX
XX	OO	XO	OX	OX	OX	OO	XX	OX	OX	XX	OX	OX

0XXX OXXXXXXXXX (# 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

REVISIONS	REV.
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES	DRN. DATE CHK'D.	DATE	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	ANGLES	ENG.	TITLE	
.XXX - .006	±0° 30'	DATE	BOOTSTRAP LOADER	
.XX - .02		PROJ. ENG.		
.X - .3		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD.	DATE		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	SCALE	DCS M847-1-1		M
	SHEET 4 OF 6	DIST.		

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MODULE: M847YF

(OPTION M18-EF) (EDUSYSTEM 4, LOW)

Grid of 32 columns and 4 rows of X and O characters for module M847YF.

(# OF X'S = 215)

(# OF O'S = 169)

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

MODULE: M847YG

(OPTION M18-EG) (EDUSYSTEM 4, HIGH)

Grid of 32 columns and 4 rows of X and O characters for module M847YG.

(# OF X'S = 211)

(# OF O'S = 173)

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

MODULE: M847YH

(OPTION M18-EH) (TD-8E)

Grid of 32 columns and 4 rows of X and O characters for module M847YH. Includes 'ALL X'S' label.

(# OF X'S = 244)

(# OF O'S = 140)

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

MODULE: M847YJ

(OPTION M18-EJ) (RK8-E)

Grid of 32 columns and 4 rows of X and O characters for module M847YJ.

(# OF X'S = 137)

(# OF O'S = 217)

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

MODULE: M847YK (OPTION M18-EK)

(DC72:CR8-F)

Grid of 32 columns and 4 rows of X and O characters for module M847YK. Includes 'DONT CARE' label.

(# 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 M18-EL) CAPS 8, CASSETTE

Grid of 32 columns and 4 rows of X and O characters for module M847YL.

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

OO OO OX XO XX XX (# OF X'S = 15)
O OX OO OX 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 for QTY, DESCRIPTION, PART NO., ITEM NO., DATE, and TITLE.

REVISIONS, CHANGE NO., CHK

REV. M, CS M847-0-1



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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
XX	XO	XX	XA	XO	XO	XO	XX	XX	OO	XX	XO	XX	XX	XX	OX
XX	OO	OO	OX	OO	OX	OO	OO	OO	OO	XX	XX	OO	OO	OO	OO
XX	OX	OO	OX	XX	XX	XX	OO	XX	OO	XX	XO	OX	OX	OX	OO
XX	XX	OO	OX	OO	XX	XX	OO	XX	XX	XX	OX	XX	OX	OX	OX
XX	XX	XX	OO	XX	XX	OX	XX	XX	OO	OX	XX	OX	XX	XX	OO

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
OO	OO	OX	OX												
OO	OO	XO	OX												
OO	OO	OO	OX												
OO	OO	OX	OX												
OO	OO	OO	OO												

ALL O'S

(\*OF X'S = 109)  
(\*OF O'S = 275)

OOOX	XOXXXXXX	(*OF X'S = 16)
OOOOOX	XOXXXXXX	(*OF O'S = 11)

REV	
CHANGE NO.	
DATE	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN	DATE	<b>digital</b> CORPORATION <small>MATHEW MASSACHUSETTS</small>	
DECIMALS	CHKD.	DATE		
ANGLES	ENG.	DATE	TITLE PART 18-EM	
.XXX - .008 .XX - .02 .X - .1	PROJ. ENG.	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD.	DATE	SIZE CODE NUMBER REV. DCS M847-0-1 M	
MATERIAL	NEXT HIGHER ASSY.		SCALE NONE SHEET 6 OF 6	
FINISH				

**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>J. Easton</i>	PROD R. K. <i>allman</i>	ISSUED SECT.
DATE 8-18-71	DATE 8-30-71	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION											
			M18-E x (ALL)											
1	E-CS-M847-0-1	BOOTSTRAP LOADER	1											

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECO NO.
BOOTSTRAP	NONE	<b>A PL</b>	M18-E-0	<b>B</b>	M18E-00003
SHEET 1 OF 1		DIST.			

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

<b>ENGINEERING SPECIFICATION</b>	<b>000000</b>	<b>CONTINUATION SHEET</b>																						
TITLE MI8-E PDP8/E BOOTSTRAP LOADER																								
<p><b>1.0 Overall Description</b></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><b>2.0 General Description</b></p> <p><b>2.1 Definition of Basic System</b></p> <p style="margin-left: 40px;">A. One M847 module</p> <p><b>2.2 List of Included Options</b></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><b>2.3 Mechanical Packaging</b></p> <p style="margin-left: 40px;">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																						
A	SP	MI8-E-1																						
REV																								
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  
ENG R. Allen  
DATE 2-29-72

CHECKED [Signature]  
DATE 2-29-72  
PROD [Signature]  
DATE 2-29-72

SECTION  
ISSUED SECT.

All Versions								KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1													
1													
1													

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

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

**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-DIIB

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-DIIB 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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**DIGITAL EQUIPMENT CORPORATION**  
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>R. A. Williams</i>	SIZE	A	CODE	SP	NUMBER	MI8E-4	REV	
-----	------------	------	-----------------------	------	---	------	----	--------	--------	-----	--

**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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