

**KD8-E**  
**data break interface**  
**engineering drawings**

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# MASTER DRAWING LIST

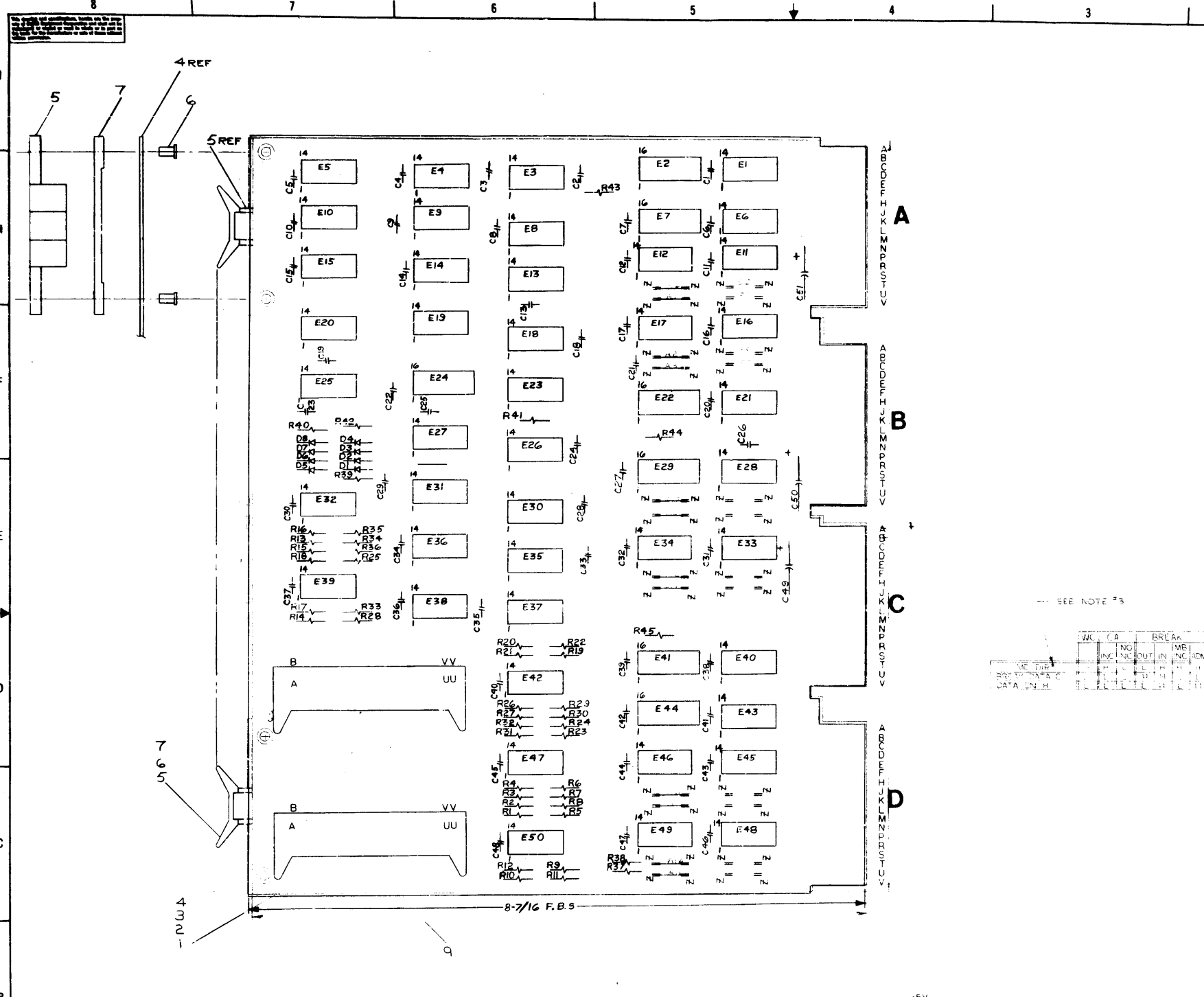
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DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
A-PL-KD8-E-0		1	DATA BREAK INTERFACE (PARTS LIST)
E-CS-M8360-0-1	B	3	DATA BREAK INTERFACE
A-SP-KD8-E-1		3	ENGINEERING SPECIFICATIONS
A-SP-KD8-E-2	A	2	TEST PROCEDURE
A-SP-KD8-E-3	A	2	ACCEPTANCE PROCEDURE
A-AL-KD8-E-4		1	ACCESSORY LIST
D-UA-BC08-T-0-0	#	1	I/O CABLE (BC08J)

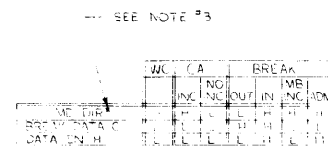
<b>REVISIONS</b>				DRN. K. GULICK	DATE 1-15-71	<div style="display: inline-block;"><b>digital</b> EQUIPMENT CORPORATION</div> <small>MAYNARD, MASSACHUSETTS</small>
REV.	DATE	CHG. NO.	APP'D.	CHK'D K. GULICK	DATE 1-18-71	
A	3/23/71	00001	L.K.	ENG <i>L. K. Gulick</i>	DATE 3/5/71	
B	4/71	M8360-1	L.K.	PROJ. ENG. <i>L. K. Gulick</i>	DATE 3/5/71	
C	4/71	KD8E-2	L.K.	PROD. <i>L. K. Gulick</i>	DATE 1/7/71	
D	10/71	00003	J.K.	FIRST USED ON		
E	3/72	00004	ZK	PDP8-E	SIZE CODE	
F	4/72	00005	ZK	SCALE NONE	A ML	
				SHEET 1 OF 1	DIST.	
						NUMBER
						REV. F
						TITLE DATA BREAK

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS <b>PARTS LIST</b>					QUANTITY / VARIATION											
MADE BY K. GULICK		CHECKED K. RUSS		SECTION												
DATE 3/23/71		DATE 3/23/71		1												
ENG <i>Lawrence K. Gulick</i>		PROD <i>Raymond L. Taylor</i>		ISSUED SECT.												
DATE 4-8-71		DATE 4/7/71		1												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION														
1	E-CS-M836-0-1	DATA BREAK INTERFACE			1											
TITLE		ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.					
DATA BREAK INTERFACE KD8-E				A	PL	KD8-E-0										
		SHEET 1 OF 1		DIST.												

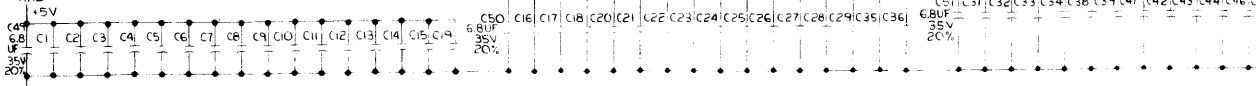
DEC FORM NO.16-1031  
DRA 110



- NOTES:
- UNLESS OTHERWISE NOTED:  
CAPACITORS ARE .01UF, 100V, 20%  
DIODES ARE D6G2  
RESISTORS ARE 20, 1/4W, 5%  
I.C.'S ARE DEC 97401
  - ALL 'A' JUMPERS ARE INSTALLED AT MANUFACTURING TO ESTABLISH HIGHER PRIORITIES. REMOVE AN 'A' JUMPER AND INSTAL A 'B' JUMPER IF HIGHEST PRIORITY WHILE B I I S 'LOWEST' PRIORITY.
  - MD DIR IS LOW FOR EVERY MEMORY READ. THIS LEVEL IS TRUE DURING WRITE.



IC TYPE	QTY	REF	DESCRIPTION	PNP. NO.
DEC 2501	14	NONE		
DEC 6314	8			
IC 304	8			
DEC 6380	8			
SEE NOTE #2				
IC PIN LOCATIONS	JUMPER LIST			

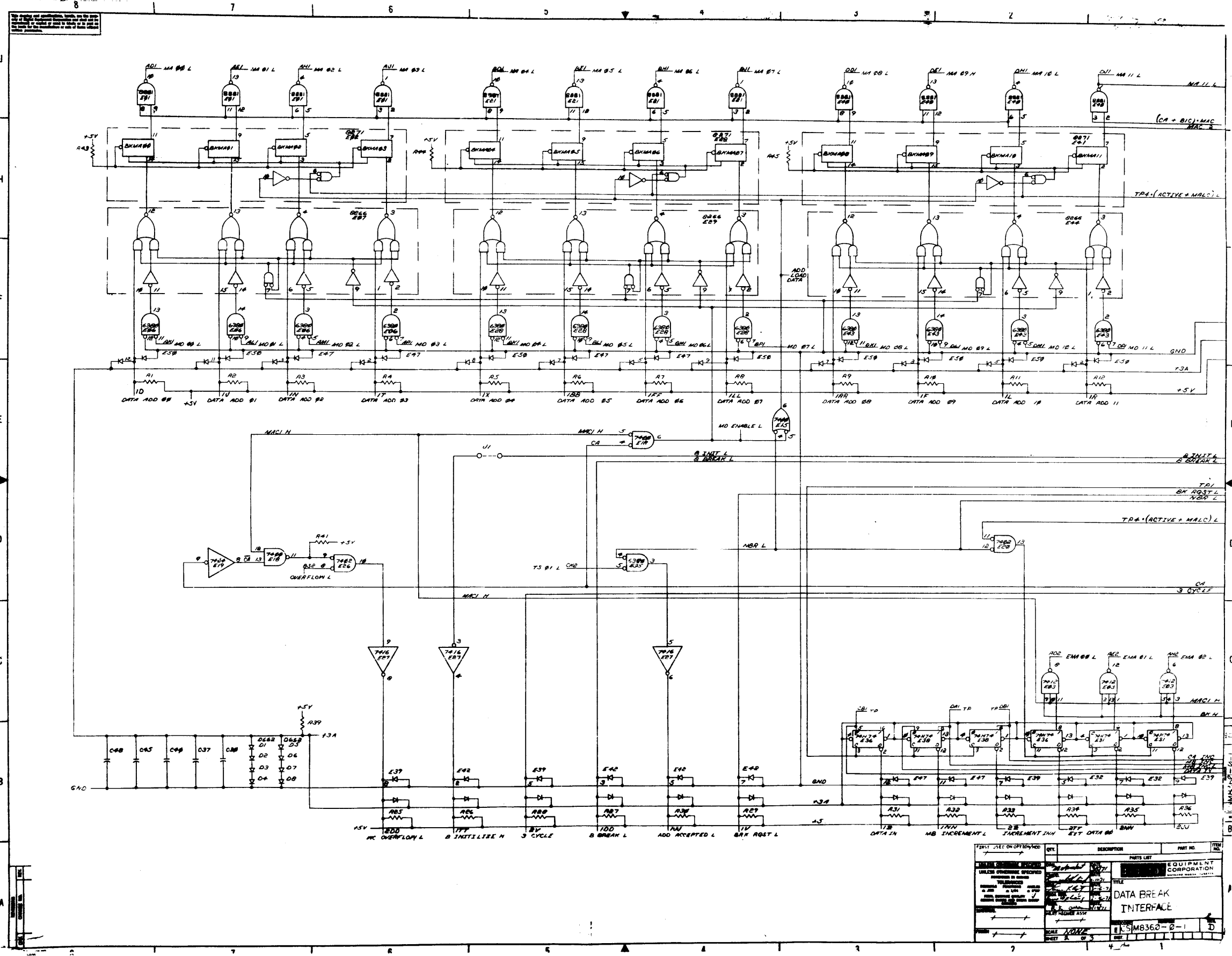


GND AC2, AF1, AF2, AN1, AN2, AT1, AT2, BC1, BC2, BF1, BF2, BN1, BN2, BT1, BT2, CC1, CC2, CF1, CF2, CN1, CN2, CL1, CL2, DC1, DC2, DP1, DP2, DN1, DN2, DT1, DT2, IA, IB, IC, IE, IH, IK, IM, IP, IS, IU, IV, VA, VB, VC, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VW, VX, VY, VZ, AA, ZC, ZF, ZH, ZK, ZM, ZP, ZS, ZU, ZV, ZW

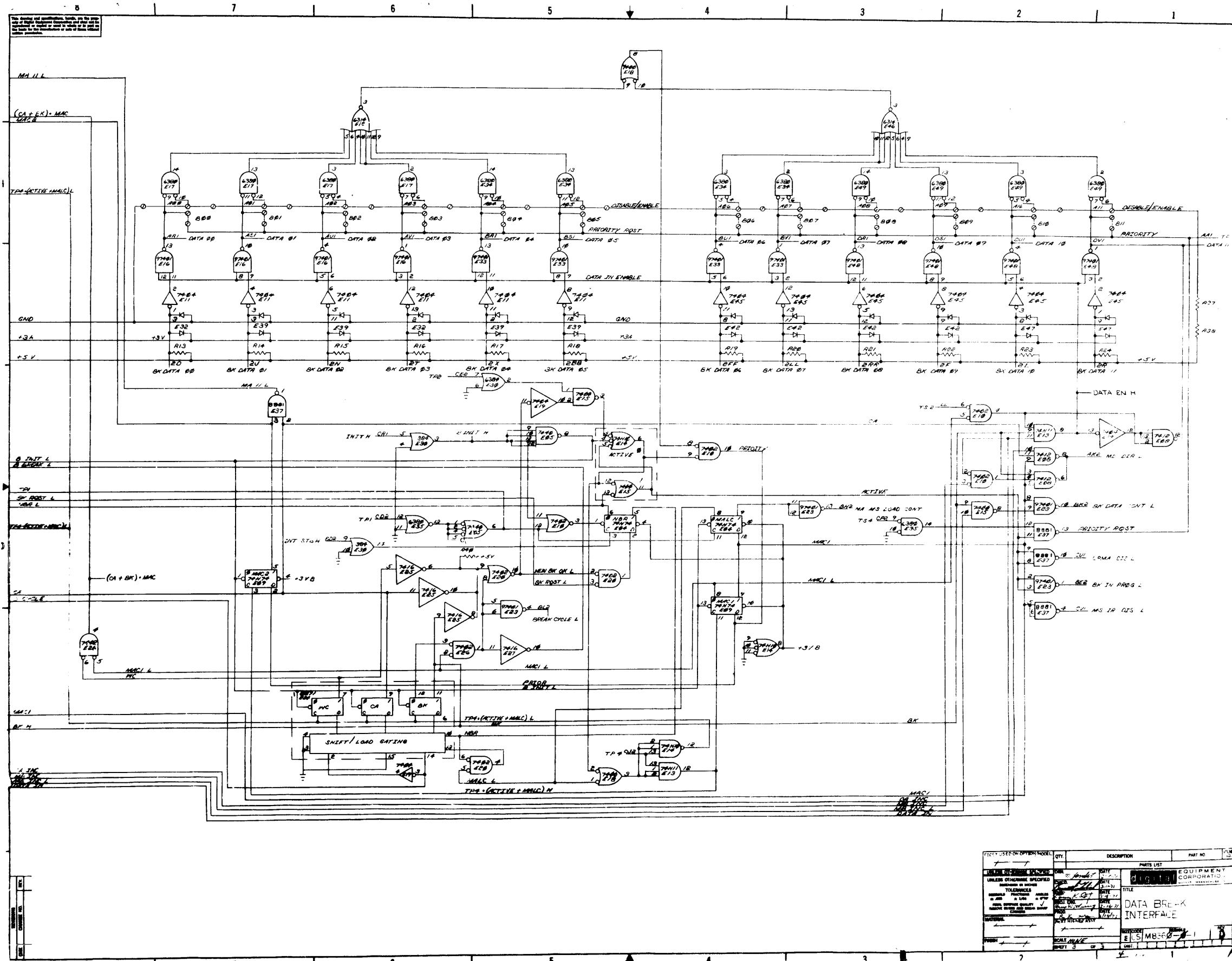
QTY	REF DESIGNATION	DESCRIPTION	PNP. NO.	REV.
4	E1, E2, E3, E40	I.C. DEC 8881	1909705	3
1	AR	WIRE #22 ANG. SOLID BUS	1907560-01	30
5	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50	DIODE PACK	1909455	28
1	E17, E29, E44	I.C.	1909934	27
1	E25, E27	I.C.	1909928	26
1	E16, E48, E27, E33	I.C. DEC 97401	1909473	25
1	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E18, E19, E20, E21, E22, E23, E24, E26, E28, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50	I.C. DEC 6314	1909472	24
1	UU1	I.C.	1909686	23
1	UU2	I.C.	1909677	22
1	UU3	I.C.	1909667	21
1	UU4	I.C.	1909455	20
1	UU5	I.C.	1909486	19
1	UU6	I.C. DEC 6380	1909471	18
1	UU7	I.C.	1909327	17
1	UU8	I.C.	1909327	17
1	UU9	I.C.	1909327	17
1	UU10	I.C.	1909327	17
1	UU11	I.C.	1909327	17
1	UU12	I.C.	1909327	17
1	UU13	I.C.	1909327	17
1	UU14	I.C.	1909327	17
1	UU15	I.C.	1909327	17
1	UU16	I.C.	1909327	17
1	UU17	I.C.	1909327	17
1	UU18	I.C.	1909327	17
1	UU19	I.C.	1909327	17
1	UU20	I.C.	1909327	17
1	UU21	I.C.	1909327	17
1	UU22	I.C.	1909327	17
1	UU23	I.C.	1909327	17
1	UU24	I.C.	1909327	17
1	UU25	I.C.	1909327	17
1	UU26	I.C.	1909327	17
1	UU27	I.C.	1909327	17
1	UU28	I.C.	1909327	17
1	UU29	I.C.	1909327	17
1	UU30	I.C.	1909327	17
1	UU31	I.C.	1909327	17
1	UU32	I.C.	1909327	17
1	UU33	I.C.	1909327	17
1	UU34	I.C.	1909327	17
1	UU35	I.C.	1909327	17
1	UU36	I.C.	1909327	17
1	UU37	I.C.	1909327	17
1	UU38	I.C.	1909327	17
1	UU39	I.C.	1909327	17
1	UU40	I.C.	1909327	17
1	UU41	I.C.	1909327	17
1	UU42	I.C.	1909327	17
1	UU43	I.C.	1909327	17
1	UU44	I.C.	1909327	17
1	UU45	I.C.	1909327	17
1	UU46	I.C.	1909327	17
1	UU47	I.C.	1909327	17
1	UU48	I.C.	1909327	17
1	UU49	I.C.	1909327	17
1	UU50	I.C.	1909327	17
1	UU51	I.C.	1909327	17
1	UU52	I.C.	1909327	17
1	UU53	I.C.	1909327	17
1	UU54	I.C.	1909327	17
1	UU55	I.C.	1909327	17
1	UU56	I.C.	1909327	17
1	UU57	I.C.	1909327	17
1	UU58	I.C.	1909327	17
1	UU59	I.C.	1909327	17
1	UU60	I.C.	1909327	17
1	UU61	I.C.	1909327	17
1	UU62	I.C.	1909327	17
1	UU63	I.C.	1909327	17
1	UU64	I.C.	1909327	17
1	UU65	I.C.	1909327	17
1	UU66	I.C.	1909327	17
1	UU67	I.C.	1909327	17
1	UU68	I.C.	1909327	17
1	UU69	I.C.	1909327	17
1	UU70	I.C.	1909327	17

DEC NO.	EIA NO.	DEC NO.	EIA NO.	DEC NO.	EIA NO.
	D6G2		N645		A-ML-K06-E

ITEM	DESCRIPTION	QTY	REV.
1	ETCH BOARD REV B		
2	EQUIPMENT CORPORATION		
3	DATA INTERFERENCE		
4	MODULE HISTORY LIST		
5	ASSY/DRILLING HOLE LAYOUT		
6	KEY COORDINATE HOLE LOC.		



FIRST SEC ON ORDERED		DESCRIPTION		PART NO.		QTY.	
7400	1	NAND 2-2	7400	1	7400	1	1
7404	1	INVERTER	7404	1	7404	1	1
7410	1	NAND 3-3	7410	1	7410	1	1
PARTS LIST				EQUIPMENT CORPORATION			
DATA BREAK INTERFACE							
ECSMB360-0-1							
D							



QTY	DESCRIPTION	PART NO.
1	6300 E17	6300 E17
1	7404 E18	7404 E18
1	7400 E16	7400 E16
1	7401 E17	7401 E17
1	7402 E17	7402 E17
1	7403 E17	7403 E17
1	7404 E18	7404 E18
1	7405 E18	7405 E18
1	7406 E18	7406 E18
1	7407 E18	7407 E18
1	7408 E18	7408 E18
1	7409 E18	7409 E18
1	7410 E18	7410 E18
1	7411 E18	7411 E18
1	7412 E18	7412 E18
1	7413 E18	7413 E18
1	7414 E18	7414 E18
1	7415 E18	7415 E18
1	7416 E18	7416 E18
1	7417 E18	7417 E18
1	7418 E18	7418 E18
1	7419 E18	7419 E18
1	7420 E18	7420 E18
1	7421 E18	7421 E18
1	7422 E18	7422 E18
1	7423 E18	7423 E18
1	7424 E18	7424 E18
1	7425 E18	7425 E18
1	7426 E18	7426 E18
1	7427 E18	7427 E18
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1	7431 E18	7431 E18
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1	7445 E18	7445 E18
1	7446 E18	7446 E18
1	7447 E18	7447 E18
1	7448 E18	7448 E18
1	7449 E18	7449 E18
1	7450 E18	7450 E18
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1	7460 E18	7460 E18
1	7461 E18	7461 E18
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1	7474 E18	7474 E18
1	7475 E18	7475 E18
1	7476 E18	7476 E18
1	7477 E18	7477 E18
1	7478 E18	7478 E18
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1	7482 E18	7482 E18
1	7483 E18	7483 E18
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1	7487 E18	7487 E18
1	7488 E18	7488 E18
1	7489 E18	7489 E18
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1	7491 E18	7491 E18
1	7492 E18	7492 E18
1	7493 E18	7493 E18
1	7494 E18	7494 E18
1	7495 E18	7495 E18
1	7496 E18	7496 E18
1	7497 E18	7497 E18
1	7498 E18	7498 E18
1	7499 E18	7499 E18
1	7500 E18	7500 E18

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**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**ENGINEERING SPECIFICATION**

DATE 4/21/71

TITLE KD8-E DATA BREAK MULTIPLEXER

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG Louis Klotz	APPD <i>Lucas Vogelsang</i>	SIZE A	CODE SP	NUMBER KD8-E-1	REV
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**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE KD8-E DATA BREAK MULTIPLEXER

1.Ø Overall Description

The KD8-E option is used with the KA8-E and converts the "Omnibus" to a PDP8/I or 8/L Positive Data Break Bus either three cycle or single cycle break. It also provides for multiplexing of up to twelve (12) KD8-E options in a single PDP8/E; therefore, removing the need for External Multiplexers such as the DMØ1 or DMØ4.

Due to timing considerations in the PDP8/E, the DMØ1 or DMØ4 Break Multiplexers may not be used with the KD8/E.

The 1971 edition of the Small Computer Handbook represents part of this specification and should be referred to.

2.Ø General Description

2.1 Definition of Basic System

- A. One M836Ø Data Break Board
- B. Two BCØ8J Cables

2.2 List of Included Options

2.3 Mechanical Packaging

- A. 8½" by 10½" quad board
- B. Two cable connectors

2.4 Environmental Specification

- A. Temperature: 32° to 130°F (Ø° to 55°C)
- B. Humidity: Maximum 90% Rel. No condensation
- C. Power: +5 @ 1.43 amp.

2.5 General Performance Specification

Refer to 1971 Small Computer Handbook.

3.Ø Specification of Vendor Supplied Equipment

Refer to Purchase Specification for component in question.

	SIZE A	CODE SP	NUMBER KD8-E-1	REV
--	--------	---------	----------------	-----

TITLE KD8-E DATA BREAK MULTIPLEXER

4.Ø Programming

A. Non-programmable.

5.Ø Interface Specifications

Refer to 1971 Small Computer Handbook.

SIZE	CODE	NUMBER	REV
A	SP	KD8-E-1	



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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 10/13/71		
TITLE KD8-E TEST PROCEDURE						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	00005	KLOTZ	4-72	<i>[Signature]</i>	4-25-72

ENG	APPD	SIZE	CODE	NUMBER	REV
<i>[Signature]</i>	<i>[Signature]</i>	A	SP	KD8-E-2	A

ENGINEERING SPECIFICATION		CONTINUATION SHEET						
TITLE KD8-E TEST PROCEDURE								
<p>1.0 EQUIPMENT</p> <p>1.1 PDP8E</p> <p>1.2 Daughter station on PDP8E test line</p> <p>1.3 453 Scope/voltage probes</p> <p>2.0 TEST STATION SET UP</p> <p>2.1 Check paperwork in envelop making sure it is complete as required by DEC Standard # 101.</p> <p>2.1.1 Test and inspection record</p> <p>2.1.2 Key sheet and ECO status sheet will contain both CS and etch revision.</p> <p>2.1.3 Quality control inspection report.</p> <p>2.1.4 PDP8E progress report</p> <p>2.2 Insert the M8360 to be tested in the Omnibus per "Recommended Module Assignment List" (A-SP-PDP8E-0-4)</p> <p>2.3 Cable connections</p> <table style="margin-left: 40px; border: none;"> <tr> <td style="text-align: center;"><u>M8360</u></td> <td style="text-align: center;"><u>Daughter Station</u></td> </tr> <tr> <td style="text-align: center;">Conn 1</td> <td style="text-align: center;">C8 - D8</td> </tr> <tr> <td style="text-align: center;">Conn 2</td> <td style="text-align: center;">C7 - D7</td> </tr> </table> <p>3.0 TESTING</p> <p>3.1 Run a quick verify off daughter station.</p> <p>4.0 FINAL OPERATION AND INSPECTION</p> <p>4.1 Remove M8360</p> <p>4.2 Disconnect cables</p> <p>4.3 Check that the following paperwork has been completed</p> <p style="margin-left: 40px;">ECO status sheet</p> <p style="margin-left: 40px;">QC sheet</p> <p style="margin-left: 40px;">8/E progress report</p> <p>5.0 EXCEPTIONS</p> <p>5.1 If daughter station is not available, but KD8E tester is, the above steps 1.0 to 3.0 will not be performed. Instead the KD8E will be hooked up and 3 passes of the latest KD8E diagnostic will be run (Refer to D-CS-KD8E-T-1).</p>	<u>M8360</u>	<u>Daughter Station</u>	Conn 1	C8 - D8	Conn 2	C7 - D7		
<u>M8360</u>	<u>Daughter Station</u>							
Conn 1	C8 - D8							
Conn 2	C7 - D7							
SIZE <b>A</b>	CODE SP	NUMBER KD8-E-2	REV <b>A</b>					

**DIGITAL EQUIPMENT CORPORATION**  
MAYNARD, MASSACHUSETTS

**ENGINEERING SPECIFICATION**

DATE 10/8/71

TITLE KD8E ACCEPTANCE PROCEDURE

**REVISIONS**

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	KD8E-00004	KLOTZ	3/72	Z/K	3/72

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ENG	APPD	SIZE	CODE	NUMBER	REV
<i>[Signature]</i>	<i>[Signature]</i>	A	SP	KD8-E-3	A

**ENGINEERING SPECIFICATION**

CONTINUATION SHEET

TITLE KD8E ACCEPTANCE PROCEDURE

- 1.0 EQUIPMENT REQUIRED FOR ACCEPTANCE
  - 1.1 PDP8E
  - 1.2 Daughter station on PDP8E test line
- 2.0 PROCEDURE
  - 2.1 Make sure all ECO's have been installed
  - 2.2 Perform Q.C. inspection
  - 2.3 Insert the M8360 to be accepted in the 8E Omnibus per "Recommended Module Assignment List" (A-SP-PDP8/E-0-4)
  - 2.4 Cable connections
 

<u>M8360</u>	<u>Daughter Station</u>
Conn 1	C8 - D8
Conn 2	C7 - D7
- 3.0 ACCEPTANCE TESTING
  - 3.1 Run quick verify off daughter station
- 4.0 SHIPPING SOFTWARE
  - 4.1 KD8-E print set
  - 4.2 Maintenance manual or Engineering specification
- 5.0 SHIPPING HARDWARE
  - 5.1 M8360 module (1 each)
  - 5.2 BC08J-10 cable (2 each) 10 feet length will be shipped unless otherwise specified on construction requisition
- 6.0 EXCEPTIONS
  - 6.1 If KD8-E is installed in a system (i.e. with an RF08 etc.) the system acceptance will be used as the KD8-E acceptance and the above steps 1.0 - 5.0 will not be performed.
  - 6.2 If KD8-E is not in a system, but the KD8E tester is available the above steps 1.0-3.0 will not be performed. The KD tester will be hooked up and 3 passes of the latest KD8E tester diagnostic will be run.

SIZE	CODE	NUMBER	REV
A	SP	KD8-E-3	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 J. Mc Cluskey	CHECKED <i>J. Mc Cluskey</i>	SECTION
DATE 4/18/72	DATE 4/18/72	
ENG L. Klotz	PROD <i>J. Mc Cluskey</i>	ISSUED SECT.
DATE 4/18/72	DATE 4/18/72	

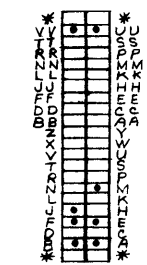
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	KD8-E	QUANTITY / VARIATION				KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1	M8360	Data Break Interface Module	1										
2	BC08-J	Control Cable	3										
3	A-MI-KD8-E	KD8-E Print Set	1										
4	DEC-8E-IR2B-D-KD8	KD8-E Maintenance Manual	1										
		Note: If item 4 is Temporarily waived ship the following											
	A-SP-KD8-E-1	KD8-E Engineering Specifications	1										
	A-SP-KD8-E-3	KD8-E Acceptance Procedure	1										

TITLE ACCESSORY LIST FOR KD8-E	ASSY. NO.	SIZE A	CODE AL	NUMBER KD8-E-4	REV.	ECO NO
	SHEET   OF	DIST.				

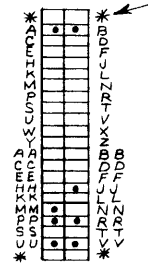
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WIRE TABLE								LEGEND	
ITEM NO.	DESCRIPTION	FROM		TO		REMARKS	NUMBER	VARIATION	
		AWG	COLOR	CONNECTION	WITH		CONNECTION	WITH	DIM "X"
2	BLU			P1-A	3	P2-VV	3	CRIMP	
	ORN			P1-B	3	P2-UU			
	BRN			P1-E	3	P2-RR			
	RED			P1-F	3	P2-PP			
	VIO			P1-J	3	P2-MM			
	BLK			P1-M	3	P2-JJ			
	GRY			P1-UU	3	P2-B			
2	GRN			P1-VV	3	P2-A	3	CRIMP	

NOTES:  
 1. MANUFACTURING SHOULD USE KEYSTONE  
 2. TOOL FOR THE ASSY OF PINS.  
 (ITEM #3)  
 3. \* ASTERISKS INDICATES CAVITIES  
 NOT USED OR DESIGNATED BY LETTERS.  
 4. BERG CONNECTORS WILL BE LABELLED BC08T P1  
 AND BC08T P2 ON THE BACK SIDE OF THE  
 RESPECTIVE CONNECTOR.

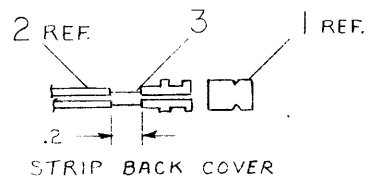
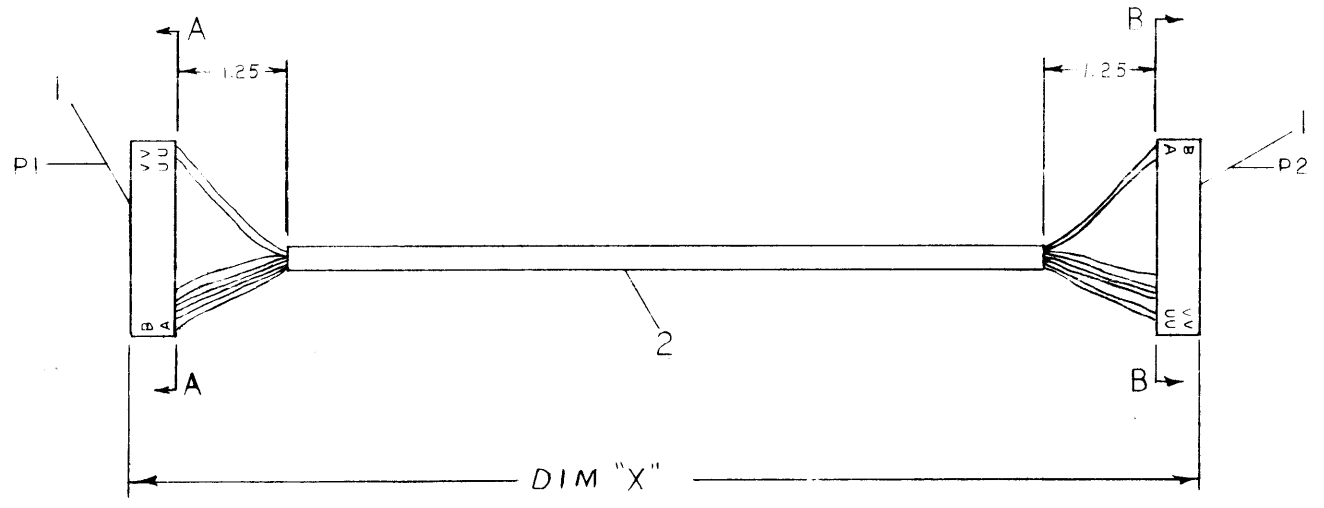


VIEW A-A  
(P1)



VIEW B-B  
(P2)

SEE NOTE # 3



REV.	CHANGE NO.	DATE	BY
A	BC08T-00001	4/18/72	B. SMITH

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP-8E		16 SOCKET PIN 48015 BERG	1210089-6	3
		A/R 10 COND. CABLE	917623	2
		2 HOUSING BERG #20383	1210090-0	1

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DATE		digital CORPORATION MAYNARD MASSACHUSETTS
DRN	3/27/72	DATE	3/30/72	
ENG	3/27/72	DATE	3/27/72	
PRG. ENG.	3/27/72	DATE	3/27/72	
PROD.	3/27/72	DATE	3/27/72	

MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV.
	KL8M	DUA	BC08T-0-0	A