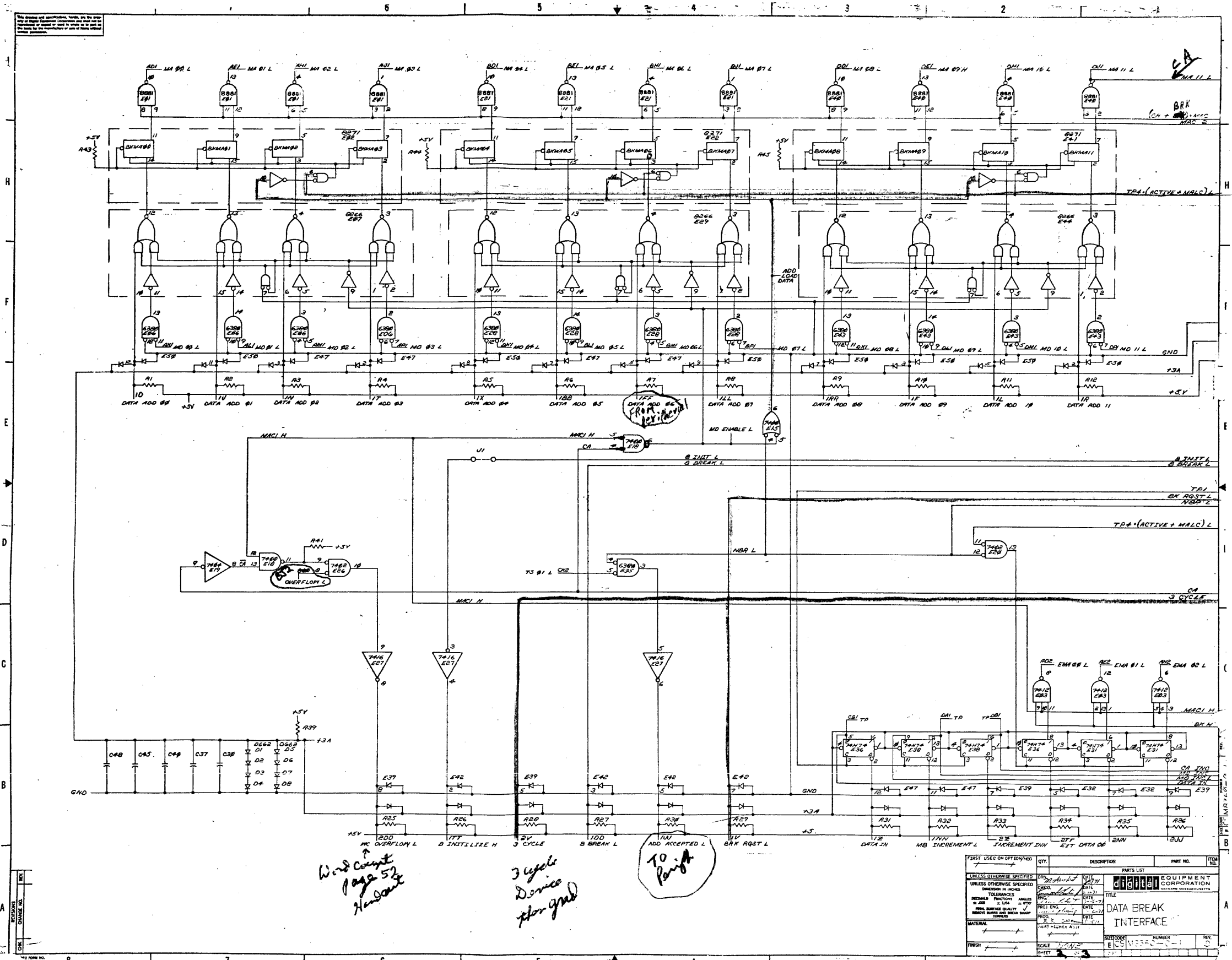


**KD8-E**  
**data break interface**  
**engineering drawings**





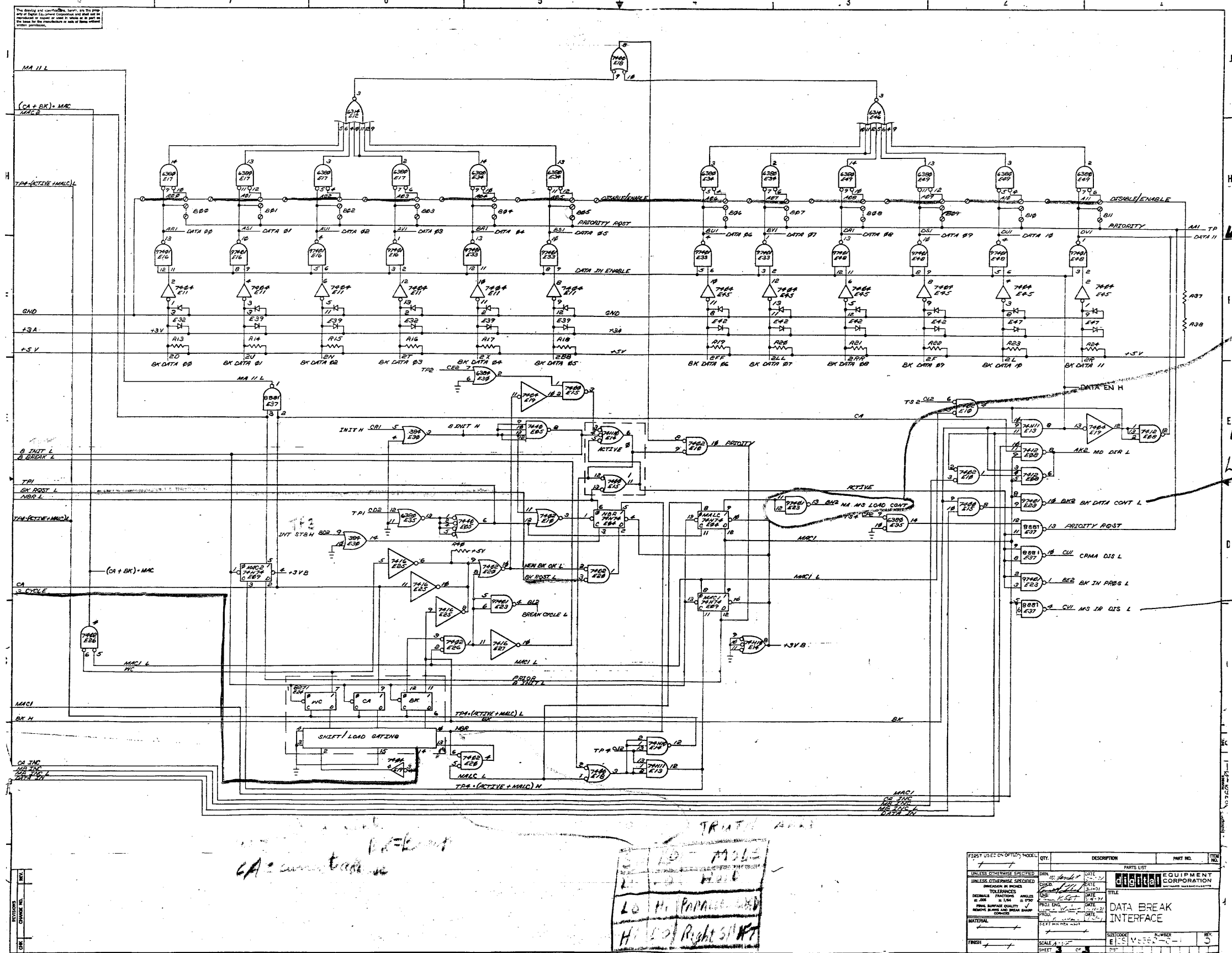




QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	6300 NAND		
1	6300 AND		
1	7414 INVERTER		
1	7412 NAND		
1	7410 AND		
1	RESISTOR		
1	CAPACITOR		

Vol II print manual

1



*Data Bus  
M Amory adding  
major state*

*H = Data Bus to M.B.  
L = Take Data Bus Plus M.D.  
to M.B.*

*Disqualify M.S.E. 1057 R  
page 14*

*CA = current base*

*LO HI PARALLEL AND  
HI LO RIGHT SIDE*

FIRST USED ON OTHER MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED				
TOLERANCES				
NORMAL FRACTIONS UNLESS				
INDICATED OTHERWISE				
MATERIAL				
FRESH				

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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>Vernon Vogelsang</i>	SIZE A	CODE SP	NUMBER KD8-E-1	REV
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**ENGINEERING SPECIFICATION**

**digital**

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 (0° 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
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# ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE KDS-E DATA BREAK MULTIPLEXER

4.Ø Programming

A. Non-programmable.

5.Ø Interface Specifications

Refer to 1971 Small Computer Handbook.

SIZE  
A

CODE  
SP

NUMBER  
KDS-E-1

REV

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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	RK	4-25-72

ENG <i>Long</i>	APPD <i>RK</i>	SIZE <b>A</b>	CODE SP	NUMBER KD8-E-2	REV <b>A</b>
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**ENGINEERING SPECIFICATION**



CONTINUATION SHEET

TITLE KD8-E TEST PROCEDURE

- 1.0 EQUIPMENT
  - 1.1 PDP8E
  - 1.2 Daughter station on PDP8E test line
  - 1.3 453 Scope/voltage probes
  
- 2.0 TEST STATION SET UP
  - 2.1 Check paperwork in envelop making sure it is complete as required by DEC Standard # 101.
    - 2.1.1 Test and inspection record
    - 2.1.2 Key sheet and ECO status sheet will contain both CS and etch revision.
    - 2.1.3 Quality control inspection report.
    - 2.1.4 PDP8E progress report
  - 2.2 Insert the M8360 to be tested in the Omnibus per "Recommended Module Assignment List" (A-SP-PDP8E-0-4)
  - 2.3 Cable connections
 

<u>M8360</u>	<u>Daughter Station</u>
Conn 1	C8 - D8
Conn 2	C7 - D7
  
- 3.0 TESTING
  - 3.1 Run a quick verify off daughter station
  
- 4.0 FINAL OPERATION AND INSPECTION
  - 4.1 Remove M8360
  - 4.2 Disconnect cables
  - 4.3 Check that the following paperwork has been completed
    - ECO status sheet
    - QC sheet
    - 8/E progress report
  
- 5.0 EXCEPTIONS
  - 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).

SIZE <b>A</b>	CODE SP	NUMBER KD8-E-2	REV <b>A</b>
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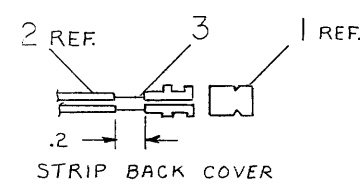
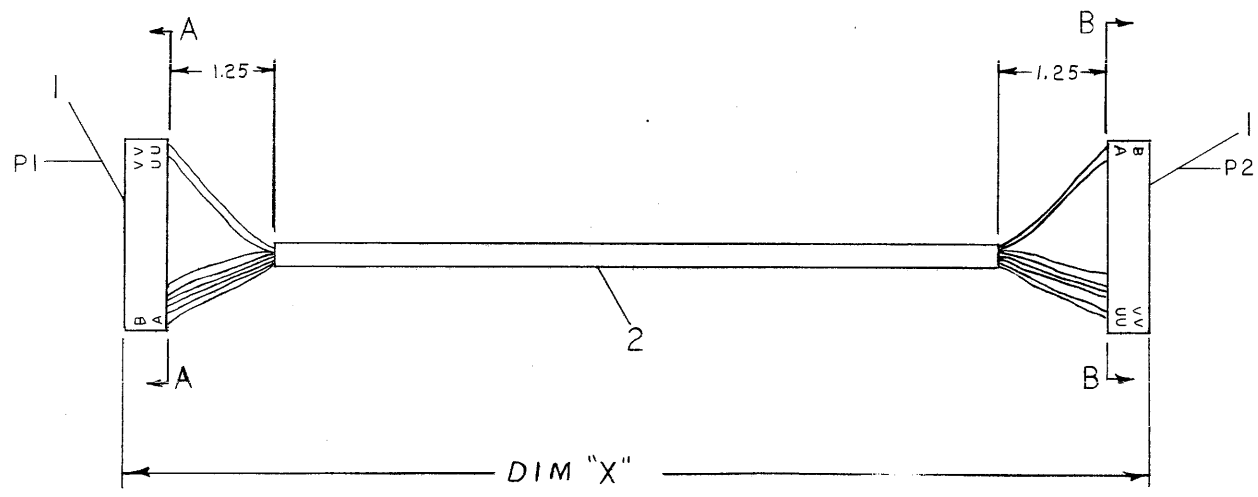
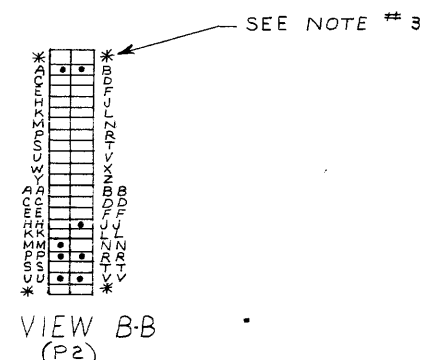
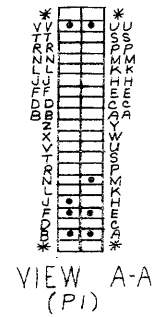




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WIRE TABLE							LEGEND	
ITEM NO.	DESCRIPTION	FROM	TO	CONNECTION	WITH	REMARKS	NUMBER	VARIATION
2	BLU	P1-A	P2-VV		3	CRIMP	BC08T-1A	1 FT. 1 IN. ± 1 IN.
	ORN	P1-B	P2-UU					
	BRN	P1-E	P2-RR					
	RED	P1-F	P2-PP					
	VIO	P1-J	P2-MM					
	BLK	P1-M	P2-JJ					
	GRY	P1-UU	P2-B					
2	GRN	P1-VV	P2-A		3	CRIMP		

- NOTES:
1. MANUFACTURER'S SPECIFIED MACHINE CRIMPING TOOL FOR THE ASSY OF PINS (ITEM #3).
  2. PINS (ITEM #3) SHOULD BE CRIMPED USING ELEC HAND TOOL (367515-5) OR THE EQUIVALENT.
  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.



CHK	CHANGE NO.	REV
B. SMITH	1	A
	2	

DATE: 4/18/72

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

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES		DRN	DATE	PARTS LIST	
DECIMALS	ANGLES	DRN	DATE	TITLE	
.XXX = .005	± 0° 30'	DRN	DATE	CABLE MODEM INTERCONNECTING	
.XX = .02		DRN	DATE	MATERIAL	
.X = .1		DRN	DATE	NEXT HIGHER ASSY.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DRN	DATE	FINISH	

MATERIAL	SCALE	SIZE CODE	NUMBER	REV.
	SCALE	KL8M	DUA BC08T-0-0	A