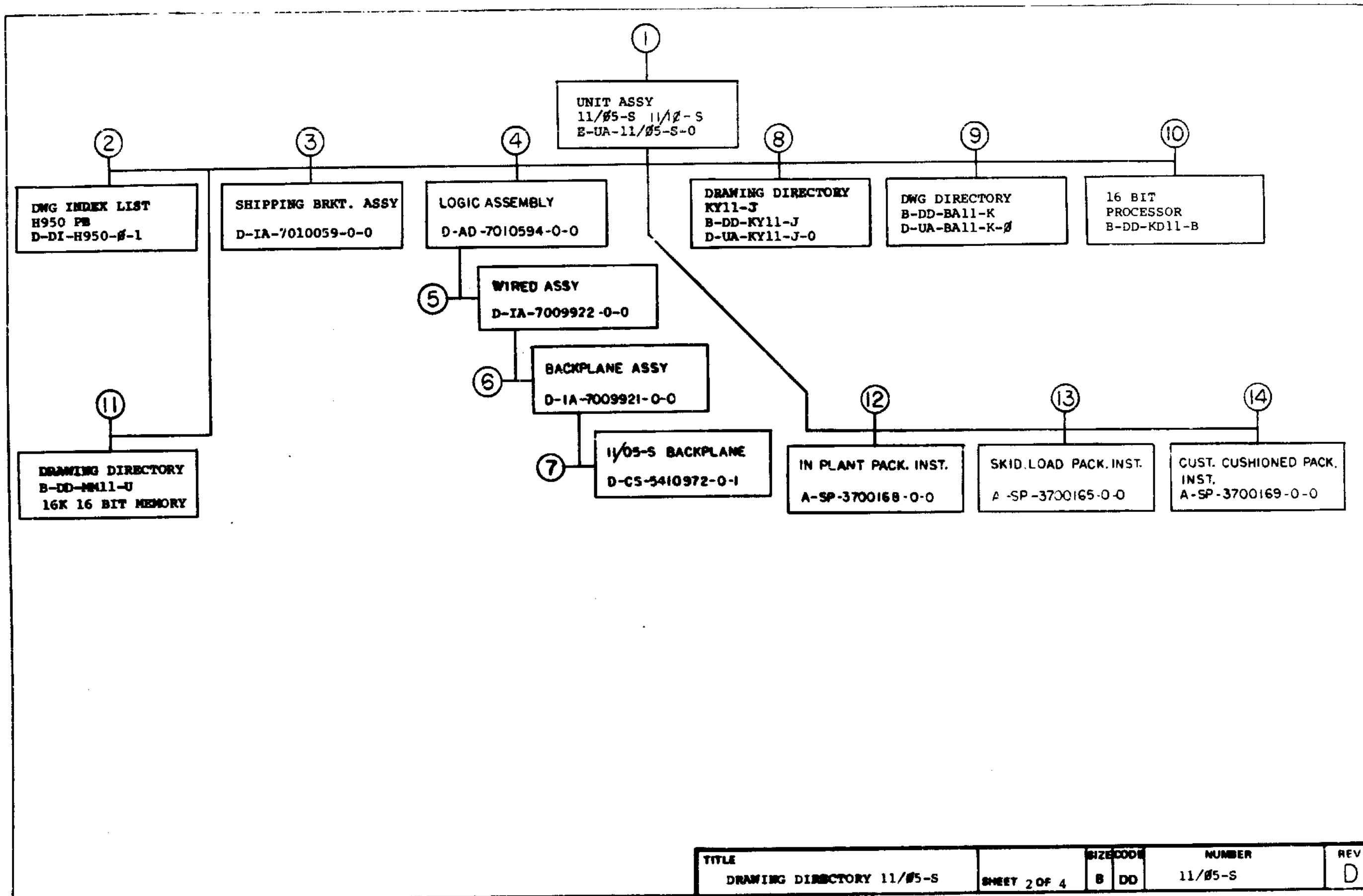


**PDP-11/05-S, 11/10-S
systems engineering
drawings**

The material herein is for information purposes only and is subject to change without notice. Digital Equipment Corporation assumes no responsibility for any errors which may appear herein.

These drawings and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.
Copyright 1975, Digital Equipment Corporation



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY 11/05-S	2 OF 4	B	DD	11/05-S	D

CUSTOMER PRINT SET						CUSTOMER PRINT SET								
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-11/05-S-0	A	1	UNIT ASSY 11/05-S			11	B-DD-MM11-U		1	DRAWING DIRECTORY, MM11-U	
X			A-PL-11/05-S-0	A	2	UNIT ASSY 11/05-S-PL		X		D-CS-G114-0-1	#	9	16 K SENSE INHIBIT	
X			D-BS-KM11-0-MB	#	3	MAINTENANCE BOARD		X		D-CS-M8293-0-1	#	10	16 K UNIBUS TIMING	
X			A-SS-5509081-0-9	#	1	SILK SCREEN, MAINT. BD.		X		D-CS-G235-0-1	#	6	16 K X/Y DRIVE	
X			A-SS-5509081-0-10	#	1	SILK SCREEN, MAINT. BD.		X		D-CS-H217-0-1	#	3	STACK	
X			D-MU-11/05-S-MU		1	MODULE UTILIZATION		X		D-TD-MF11-U-1	#	1	MF11-U TIMING DIAGRAM	
X			D-CS-M930-0-1	#	1	BUS TERMINATOR M930								
X			D-CS-M997-0-1	#	1	BERG BACKPLANE CONN								
X			B-CS-G727-0-1	#	1	GRANT CONTINUITY								
X			A-SL-11/05-0-5	#	1	11/05 SOFTWARE LIST								
	K		A-SP-11/05-0-9	#		11/05 ACCEPTANCE PROCEDURE								
			A-SP-11/05-S-1			11/05-S ASSEMBLY PROCEDURE								
X			A-AL-11/05-0-4	B	1	11/05 ACCESSORY LIST								
X		4	D-IA-7010594-0-0	#	1	LOGIC ASSY								
X		5	D-AD-7009922-0-0	#	1	WIRED ASSY								
C			K-WL-7009922-0-1	#	1	WIRE LIST								
	K		A-MT-7009922-0	#	1	AWT REVISION STATUS								
X			A-SP-MF11-U-3	#	2	MF11-U/UP ACCEPTANCE PROCEDURE								
	K	6	D-IA-7009921-0-0	#	1	BACKPLANE ASSY								
X		7	D-CS-5410972-0-1	#	1	11/05-S BACKPLANE								
C		8	F-DD-KY11-J	#	3	DRAWING DIRECTORY KY11-JA								
C		9	B-DD-BAL1-K	#	4	DWG DIR (BOX + P.S.)								
C		10	B-DD-KD11-B	#	3	16 BIT PROCESSOR								

CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
DRAWING DIRECTORY 11/05-S
SHEET 3 OF 4
SIZE CODE
B DD
NUMBER
11/05-S
REV
D

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL					
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO./FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
	X	1	E-UA-11/05-S-0	A	1			X	6	D-IA-7009921-0-0	#	1	BACK PLANE ASSY	
	X		A-PL-11/05-S-0	A	2									
			C-MD-7411701-0-0		1									
			D-PS-1211474-0-0		1									
			B-MD-7412341-0-0		1									
			D-IA-7010113-0-0		1									
X			D-IA-7009908-0-0	#	1				7	D-CS-5410972-0-1		1	11/05-S BACKPLANE	
			D-MD-7412357-0-0		1					K-CO-5410972-0-4			X-Y COORDINATE HOLE LOC.	
	X		A-DC-7412302-0-0		1					D-AH-5410972-0-5		1	ASSY/DRILLING HOLE LAYOUT	
			D-MD-7412184-0-0		1					B-MH-5410972-0-6			MODULE ECO HISTORY	
X			D-IA-7008360-0-0	#	1					5010973			ETCH BOARD	
			D-SP-1211825-0-0											
			A-DC-5309414-0		1				X	8	B-DD-KY11-J	#	3	DRAWING DIRECTORY KY11-JA
			A-DC-5309413-0		1				X		D-UA-KY11-J-0	#	1	CONSOLE ASSY
									X	9	B-DD-BALL-K	#	4	DWG. DIR. BASIC BOX + P.S.
									X		D-UA-BALL-K-0	#	2	UNIT ASSY (BALL-K)
									X		A-PL-BALL-K-0	#	1	UNIT ASSY BALL-K (PL)
		2	D-DI-H950-0-1						X	10	B-DD-KD11-B	#	3	16 BIT PROCESSOR
			D-UA-H950-P-0						X		A-PL-KD11-B	#		16 BIT PROCESSOR
									X	11	B-DD-MM11-U	#		16K 16 BIT MEMORY
		3	D-IA-7010059-0-0		1				X	12	A-SP-3700168-0-0		3	IN PLANT PACK. INST.
			C-MD-7412190-0-0		1						A-PS-9905050-0-0		2	REGULAR SLOTTED CARTON
			D-MD-7412191-0-0		1						A-PS-9905335-0-0		2	BEZEL PROTECTOR
											A-PS-9905644-0-0		2	REAR PAD
											A-PS-9905323-0-0		2	LAMINATED SADDLE
											A-PS-9905129-0-0		4	POLY BAG
X		4	D-AD-7010594-0-0	#	1				X	13	A-SP-3700165-0-0		4	SKID LOAD PACK. INST.
			D-IA-7010113-0-0	#	1						A-PS-1210568-01-0		2	CUSHIONED SKID
	X	5	D-AD-7009922-0-0	#	1						A-PS-9905445-0-0		2	HALF OVERLAP SLOTTED CARTON (TOP)
			C-PS-1210698-0-0		1						A-PS-9905419-0-0		2	FLANGED TUBE (BOTTOM)
			B-DC-5308753-0-0		1									
			A-DC-7410881-0-0		1									
	X		K-WL-7009922-0-1	#										
	X		A-WT-7009922-0	#	1				X	14	A-SP-3700169-0-0		2	CUST. CUSHIONED PACK. INST.
											A-PS-9905645-0-0		2	FULL TELESCOPE CAP.
											A-PS-9905642-0-0		2	FOAM PAD
											A-PS-9905643-0-0		2	FOAM WITH CORRUGATED SIDE WALL ASSEMBLY

CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
DRAWING DIRECTORY 11/05-S
SHEET 4 OF 4
SIZE CODE B DD
NUMBER 11/05-S
REV D

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY BILL BLODGET
DATE 7/3/74
ENG J.P. Johnson
DATE 8-23-74
CHECKED D. HEALY
DATE 7/10/74
PROD *W. J. Johnson*
DATE 8/19/74
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	D-UA-H950-PB-0	COVER, PANEL 5 & BEZEL (SNAP-ON)	11/05-SD (15V 16K)
2	D-IA-7010059-0-0 *	SHIPPING BRKT. ASSY	11/10-SC (15V 16K)
3	D-IA-7008360-0-0	CABLE TTY	11/05-SD (230V 16K)
4	D-IA-7010594-0-0	LOGIC ASSEMBLY	
5	C-MD-7411701-0-0	SPACER, CHASSIS FRONT	
6	B-DD-KY11-JA	CONSOLE ASSY	
7	D-PS-1211474-0-0	STRIP, FILLER 1.75	
8	9006074-3	SCR, PHL HD TRUSS #10-32 x .68	4 4 4 4
9	9006070-2	SCR, PHL HD FLAT #10-32 x .31	8 8 8 8
10	9009033-1	SCR, PH HD PAN THD CUT #10-16 x 1.0	2 2 2 2
11	B-DA-7010173-0-0	CONSOLE PMR HARNESS	
12	D-IA-7009908-0-0	CONSOLE PMR HARNESS	1 1 1 1
13	D-MD-7412357-0-0	CABLE FOLDING DIAGRAM	REF REF REF REF
14	MM11-U	16K 16 BIT MEMORY	1 1 1 1
15	A-DC-7412302-0-0	DECAL 11/05-S	1 1 1 1
16	9006043-1	SCR, PH PAN HD #8-32 x 1.0	4 4 4 4
17	D-MU-11/05-S-MU	MODULE UTILIZATION	REF REF REF REF
18	B-DD-BA11-KH	BASIC BOX +P.S. 115V	1 - 1 -
19	B-DD-BA11-KJ	BASIC BOX +P.S. 230V	- 1 - 1
20	B-DD-KD11-B	16 BIT PROCESSOR	1 1 1 1
21	D-CS-M930-0-1	BUS TERMINATOR M930	2 2 2 2
22	D-CS-M997 -0-1	BERG BACKPLANE CONN	1 1 1 1

TITLE UNIT ASSY 11/05-S
ASSY NO. E-UA-11/05-S-0
SIZE CODE A PL
NUMBER 11/05-S-0
SHEET 1 OF 2
REV. ECO NO. D 11/05-S-00004

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY B. BLODGET
DATE 7/4/74
ENG J.P. Johnson
DATE 8-23-74
CHECKED D. HEALY
DATE 7/10/74
PROD *W. J. Johnson*
DATE 8/23/74
SECTION 1
ISSUED SECT. 1

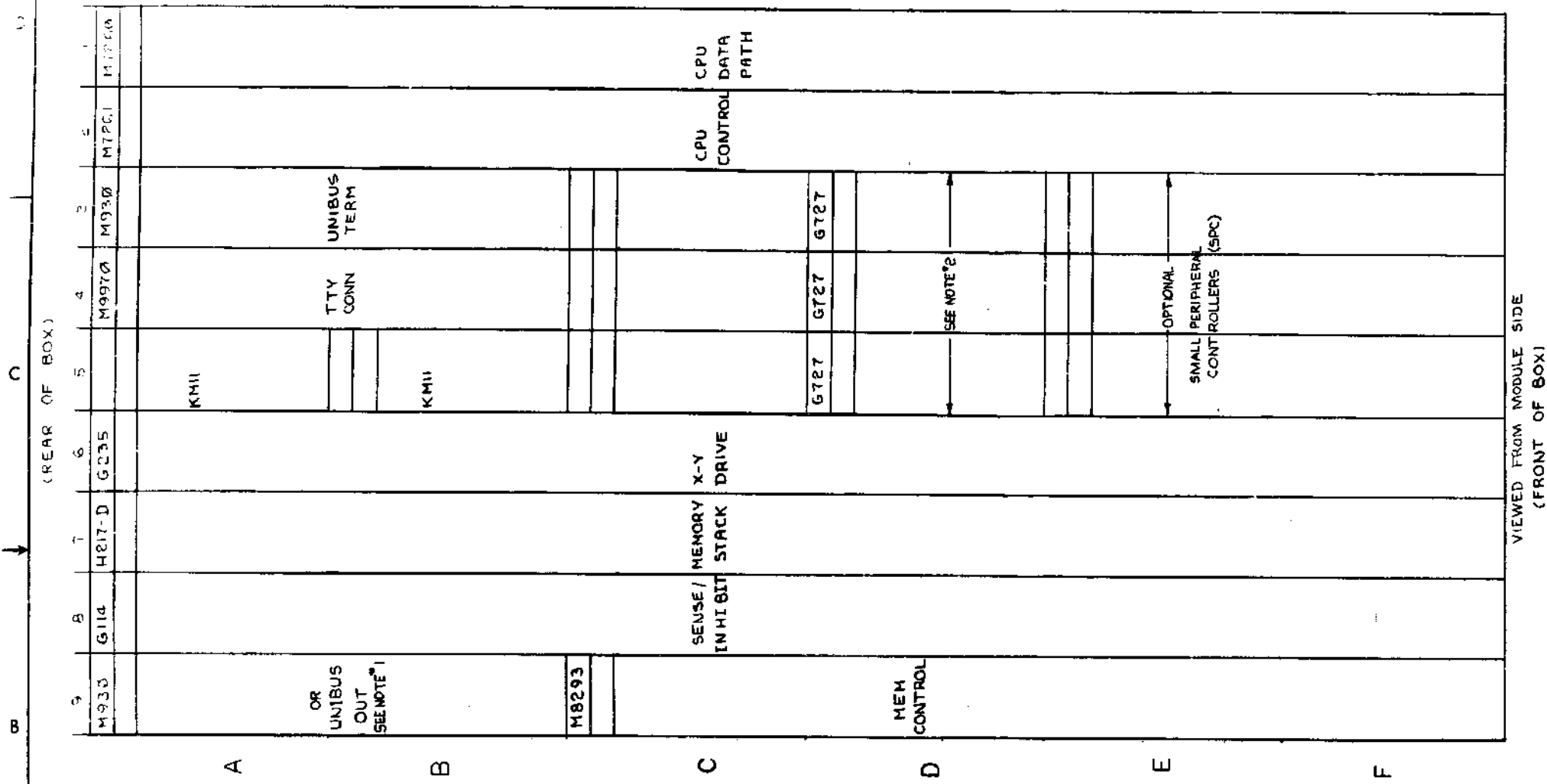
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	B-CS-G727-0-1	GRANT CONTINUITY	11/05-SD (230V 16K)
24	1209224	LATCH MOLDING	11/05-SD (15V 16K)
25	A-DC-7409478-0-0	DECAL, PATENT	1 1 1 1
26	* D-PS-1211825-0-0 *	SLIDE, 3 POS TILT	1 prtp IPR(IPK)
27	9007651	WASHER EXTERNAL TOOTH #10	6 6 6 6
28	9006071-3	SCREW, PHL TRUSS HD #10-32x.38	10 10 10 10
29	9006565	NUT, KEPS, #10-32	4 4 4 4
30	9006020-3	SCREW, PHL. TRUSS HD. #6/32x.25	12 12 12 12
31	9006633	WASHER INTERNAL TOOTH LOCK #6	12 12 12 12
32	D-IA-7009768-0-0	COVER, CHASSIS	2 2 2 2
33	DEC-3-(374)-1825-N1174	STICKER, "CONFIGURATION"	1 1 1 1
34	A-SP-3700168-0-0	IN PLANT PACK, INST.	REF REF REF REF
35	A-SP-3700165-0-0	SKID LOAD PACK, INST.	REF REF REF REF
36	A-SP-3700169-0-0	CUST. CUSHIONED PACK, INST.	REF REF REF REF
37	A-DC-5309414-0	DECAL, UL	1 1 1 1
38	A-DC-5309413-0	DECAL, NFPA	1 1 1 1
39	A-SP-11/05-S-1	11/05-S ASSEMBLY PROCEDURE	REF REF REF REF
40	B-DD-KY11-JB	CONSOLE ASSEMBLY	- - - -
*		TO BE MOUNTED IN SYSTEM ASSEMBLY AREA	

TITLE UNIT ASSY 11/05-S
ASSY NO. E-UA-11/05-S-0
SIZE CODE A PL
NUMBER 11/05-S-0
SHEET 2 OF 2
REV. ECO NO. U

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ANY PRODUCT WITHOUT WRITTEN PERMISSION FROM DIGITAL EQUIPMENT CORPORATION

- NOTES**
- BEFORE THE 11/05 IS CONNECTED TO OTHER SYSTEM OPTIONS, THE M330 BUS TERMINATOR IS IN LOCATION A, B09. THIS TERMINATOR IS MOVED TO THE END SYSTEM OPTION UPON INTERCONNECTION.
 - PREWIRED MODULE SLOTS FOR SMALL PERIPHERAL OPTIONS, WITH NO OPTIONS INSTALLED, BUS GRANT CONTINUITY IS PROVIDED BY G727 MODULE IN LOCATION D03, D04 ED05 THE G727 IS REMOVED WHEN A SMALL PERIPHERAL OPTION IS INSTALLED

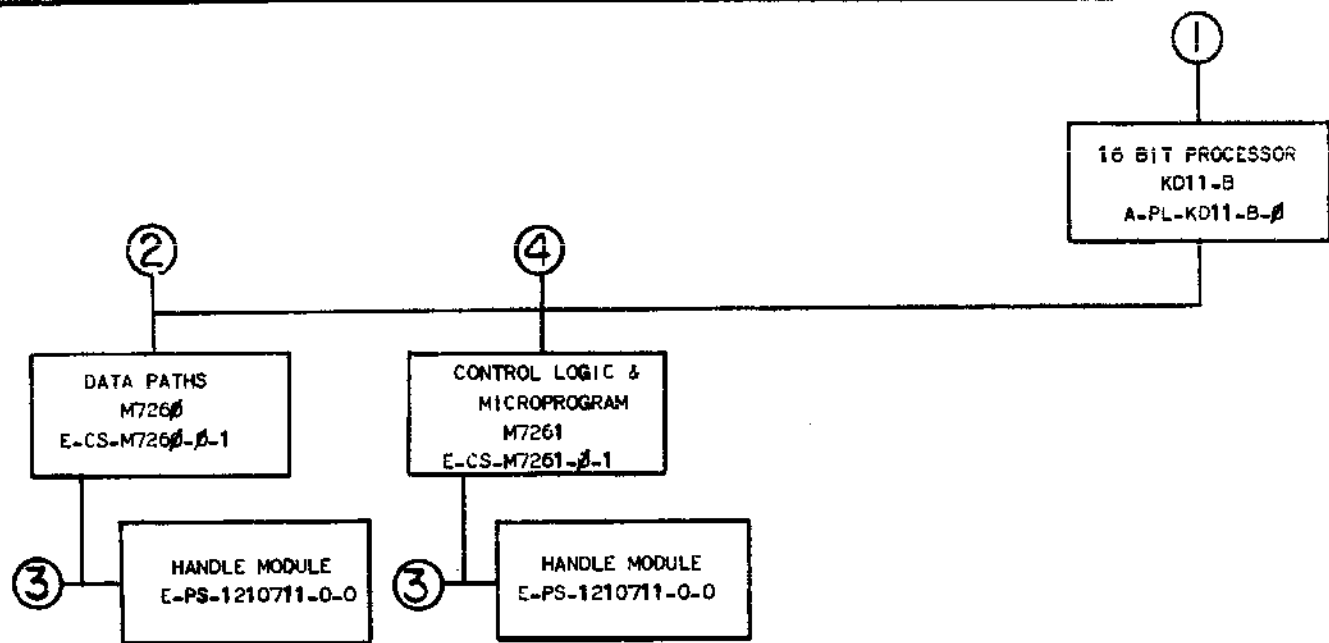


VIEWS FROM MODULE SIDE (FRONT OF BOX)

FIRST USED ON OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05-S					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN. <i>at Buzze</i>	DATE 7/25/74		
		CHK. <i>D. Kraly</i>	DATE 7-29-74		
		ENG. <i>B. Havelka</i>	DATE 8-31-74		
		PROD. <i>W. J. Jones</i>	DATE 5-27-74		
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK EDGES		TITLE	
		CORNING SURFACE QUALITY		MODULE UTILIZATION	
		NEXT HIGHER ASSY.		SIZE CODE	
MATERIAL H		A-PL-11/05-S-0		NUMBER	
FINISH H		SCALE		DMU 11/05-S-MU	
		SHEET 1 OF 1		REV.	

DMU 11/05-S-MU

REVISIONS



TITLE	SHEET OF	SIZE CODE	NUMBER	REV
16 BIT PROCESSOR KD11-B	2 OF 3	B DD	KD11-B	E

NOTES ON NOTATION

- 1; MICROROUTINES BEGIN WITH A COMMENT
THE FIRST CHARACTER OF WHICH IS '#';
- 2; ALL OTHER COMMENTS BEGIN WITH '//';
- 3; R[N] REFERS SCRATCH PAD REGISTER N;
R[7] IS ALSO REFERRED TO AS 'PC';
- 4; R[S] REFERS TO THAT REGISTER SPECIFIED
IN THE SOURCE PORTION OF THE CURRENT INST;
(IR<11>); LIKEWISE, R[D] REFERS TO THAT
REG SPECIFIED IN THE DESTINATION PORTION OF
THE CURRENT INST, (IR<21>);
- 5; K[N] REFERS TO THAT LOCATION OF THE
CONSTANTS CHIP CONTAINING THE CONSTANT N;
- 6; 'BUT' STANDS FOR 'BRANCH ON MICRO TEST'.

```

LOC  NXT  * INSTRUCTION FETCH
002  053  P=1  SA=PC; DAT;
003  365  P=2  B=PC+2
305  364  P=3  PC=0; CKOFF
304  061  P=4  B;IR=UNIBUS DATA
001  001  P=5  B=0 SEX; BUT IR DECODE
      / IF DOUBLE OP INST GOTO S0=1 THRU S7=1 DEPENDING ON SOURCE MODE
      / IF SINGLE OP INST GOTO D0=1 THRU D7=1 DEPENDING ON DEST MODE (INCLUDING JSR)
      / IF BRANCH, CHANGE PC GOTO B=1
      / IF BRANCH, PC UNCHANGED GOTO B2=2
      / IF CLEAR OR SET COND CODE(S) GOTO CCM=1
      / IF INST=RTS GOTO R1=1
      / IF INST=RTI GOTO R2=1
      / IF INST=WAIT GOTO W=1
      / IF INST=MALT GOTO M=1
      / IF INST=RESET GOTO RST=1
      / IF INST=EMT GOTO ET=1
      / IF INST=BREAKPOINT TRAP GOTO BT=1
      / IF INST=IOY GOTO IY=1
      / IF INST=TRAP GOTO T=1
      / IF RESERVED INST (NONE OF THE ABOVE) GOTO RT=1

```

```

LOC NXT * SOURCE MODE 0 (REGISTER), GET SOURCE DATA
/ GET TO S0=1 FROM F=5 VIA BUT IR DECODE IR<119>=0
201 007 S0=1 B=R[S]; BUT BYTE
/ IF BYTE INST GOTO SBE=1 (MUST BE EVEN BYTE)
007 001 S0=2 R[10]=B; BUT DESTINATION
/ IF IR<5>=3 =0 GOTO 00=1
/           =1   01=1
/           =2   02=1
/           =3   03=1
/           =4   04=1
/           =5   05=1
/           =6   06=1
/           =7   07=1

```

```

LOC NXT * SOURCE MODE 1 (REG, DEFERRED) GET SOURCE DATA
/ GET TO S1=1 FROM F=5 VIA BUT IR DECODE IR<119>=0
203 244 S1=1 BA=R[S]; DAT!! CKOFF; ALBYT
/ GET TO S1=2 FROM S2=3 VIA GOTO
/           "           S3=5   "
/           "           S6=9   "
244 007 S1=2 B=UNIBUS DATA; BUT BYTE; GOTO S0=2
/ IF ODD BYTE GOTO S0=1
/ IF EVEN BYTE GOTO SBE=1
/ IF NOT BYTE FALL THROUGH TO S0=2

```

```

LOC NXT * SOURCE MODE 2 (AUTO=INC,) GET SOURCE DATA
/ GET TO S2=1 FROM F=5 VIA BUT IR DECODE IR<119>=2
205 301 S2=1 BA=R[S]; DAT!! ALBYT
301 014 S2=2 B=R[S]+1+BYTE; BAR
/ GET TO S2=3 FROM S4=1 VIA GOTO
014 244 S2=3 R[S]=B; CKOFF; GOTO S1=2

```

```

LOC NXT * SOURCE MODE 3 (AUTO=INC DEFERRED) GET SOURCE DATA
/ GET TO S3=1 FROM F=5 VIA BUT IR DECODE IR<119>=3
007 016 S3=1 BA=R[S]; DAT! (MUST BE AN EVEN ADDRESS HERE)
016 017 S3=2 B=R[S]+2

```



```

/ GET TO S3=3 FROM S5=1 VIA GOTO
217 134 S3=3 R[S]=B; CKOFF
/ GET TO S3=4 FROM S7=5 VIA GOTO
134 274 S3=4 B=UNIBUS DATA
274 244 S3=5 BA=B; DAT; CKOFF; GOTO S1=2; ALBYT

```

```

LOC NXT * SOURCE MODE 4 (AUTO=DEC) GET SOURCE DATA
/ GET TO S4=1 FROM F=5 VIA BUT IR DECODE IR<1119>=4
211 014 S4=1 B,BA=RES;=1=BYTE,BAR; DAT; ENABOVER; GOTO S2=3; ALBYT

```

```

LOC NXT * SOURCE MODE 5 (AUTO=DEC DEFERRED) GET SOURCE DATA
/ GET TO S5=1 FROM F=5 VIA BUT IR DECODE IR<1119>=5
213 017 S5=1 B,BA=RES;=2; DAT;(MUST BE AN EVEN ADDRESS HERE); ENABOVER; GOTO S3=3

```

```

LOC NXT * SOURCE MODE 6 (INDEXED) GET SOURCE DATA
/ GET TO S6=1 FROM F=5 VIA BUT IR DECODE IR<1119>=6
215 025 S6=1 BA=PC; DAT;(MUST BE EVEN ADDRESS HERE)
025 026 S6=2 B=PC+2
026 027 S6=3 PC=B; CKOFF
027 030 S6=4 B=UNIBUS DATA
030 244 S6=5 BA=B+RES; DAT; CKOFF; GOTO S1=2; ALBYT

```

```

LOC NXT * SOURCE MODE 7 (INDEXED DEFERRED) GET SOURCE DATA
/ GET TO S7=1 FROM F=5 VIA BUT IR DECODE IR<1119>=7
217 032 S7=1 BA=PC; DAT;(MUST BE AN EVEN ADDRESS HERE)
032 033 S7=2 B=PC+2
033 034 S7=3 PC=B; CKOFF
034 035 S7=4 B=UNIBUS DATA
035 134 S7=5 BA=B+RES; DAT;(MUST BE AN EVEN ADDRESS); CKOFF; GOTO S3=4

```

```

LOC  NXT  * SOURCE BYTE ODD
          / GETE TO SBO=1 FROM S1=2 VIA BUT BYTE (BYTE INST, AND SOURCE DATA ODD ADDR)
267  346  SBO=1 SHIFT B RIGHT; F SHIFT
346  324  SBO=2 SHIFT B RIGHT; F SHIFT
324  340  SBO=3 SHIFT B RIGHT; F SHIFT
340  361  SBO=4 SHIFT B RIGHT; F SHIFT
361  050  SBO=5 SHIFT B RIGHT; F SHIFT
050  020  SBO=6 SHIFT B RIGHT; F SHIFT
020  052  SBO=7 SHIFT B RIGHT; F SHIFT
052  047  SBO=8 SHIF* B RIGHT; GOTO SBE=1

```

```

LOC  NXT  * SOURCE EVEN BYTE
          / GET TO SBE=1 FROM SBO=8 VIA GOTO
          / GET TO SBE=1 FROM S1=2 VIA BUT BYTE, (BYTE INST AND SOURCE DATA EVEN ADDR)
          / GET TO SBE=1 FROM SB=1 VIA BUT BYTE, (BYTE INST,)
247  001  SBE=1 R[10]=B SEX; BUT DESTINATION
          / IF IR<513> =B GOTO DB=1
          / " " " " D1=1
          / " " " " D2=1
          / " " " " D3=1
          / " " " " D4=1
          / " " " " D5=1
          / " " " " D6=1
          / " " " " D7=1

```

```

LOC  NXT  * DEST, MODE B (REGISTER), GET DEST DATA, OP, AND REPLACE
          / GET TO DB=1 FROM SB=2 VIA BUT DESTINATION (IR<513>=B)
          / GET TO DB=1 FROM SBE=1 VIA BUT DESTINATION (IR<513>=B)
101  154  DB=1 B[R[0]]; BUT MOVE
          / IF INST=MOVE, BAR (OTHER THAN MOVE) AND BYTE GOTO DB=1
          / IF INST=MOVE AND BYTE GOTO MB=B
          / IF INST=MOVE AND BYTE, BAR GOTO DB=3A
          / IF INST=MOVE, BAR AND BYTE, BAR FALL THROUGH TO DB=2
137  142  DB=2 R[11]=B; BUT UNARY
          / IF INST=JMP OR JSR GOTO ERY=1 (ILLEGAL INST, TRAP)
          / IF INST=SHAS GOTO SB1=1
          / IF INST=OTHER UNARY(CLR, COM, INC, DEC, NEG, ADC, SBC, TST, ROR, ROL, ASR, ASL) GOTO U1=1
          / GET TO DB=3 FROM U1=1 VIA GOTO
          / GET TO DB=3 FROM DB=1 VIA BUT BYTE (INST=MOVE AND BYTE, BAR)

```

```

162 112 D0=1 B,R(10) OP B; BUT NONMOD
/ THERE EXISTS A D03=A WHICH IS IDENTICAL TO D0=3 EXCEPT LOC=155
/ GET TO D0=3A FROM SR1=A VIA GOTO
/ IF NONMOD GOTO B2=2 (BUT SERVICE)
/ IF NOT NONMOD FALL THROUGH TO D0=4
/ GET TO D0=4 FROM R1=6 VIA GOTO
332 040 D0=4 R(D) B; BUT SERVICE
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
/ IF STACK OVERFLOW GOTO ERT1A
/ IF POWERFAIL GOTO PF=1
/ IF BR7 GOTO BG=1
/ IF BR6 GOTO BG=1
/ IF INTERNAL LINE CLOCK GOTO LC=1
/ IF BR5 GOTO RG=1
/ IF BR4 GOTO RG=1
/ IF UART RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1

LOC  NYT  * DEST. NONE 1 (REG,DEFERRED) GET DEST DATA, OP, AND REPLACE
/ GET TO D1=1 FROM S0=2 VIA BUT DESTINATION (IR<5:3>=1)
/ GET TO D1=1 FROM SBE=1 VIA BUT DESTINATION (IR<5:3>=1)
109 200 D1=1 B,BA,R(D); DATIP; BUT JSRMP; ALBT; CKOFF
/ NOTE DATA IN PAUSE HERE
/ IF INST=JMP GOTO J1=1
/ IF INST=JSR GOTO J2=1
/ IF INST NOT JMP OR JSR FALL THROUGH TO D1=2
/ GET D0 D1=2 FROM D2=1 VIA GOTO
/ GET TO D1=2 FROM D3=5 VIA GOTO
/ GET TO D1=2 FROM D4=5 VIA GOTO
200 210 D1=2 R,UNIBUS DATA; BUT BYTF
/ IF ODD BYTE GOTO D0=1
/ IF EVEN BYTE GO TO D2=1
/ IF NOT BYTE FALL THROUGH TO D1=3
210 143 D1=3 R(11) B; BUT UNARY
/ IF INST=SWAB GOTO SB2=1
/ IF INST=OTHER UNARY (CLR, COM, INC, DEC, NEG, ADC, SRC, TST, ROR, ROL, ASR, ASL) GOTO U2=1
/ GET TO D1=4 FROM D1=1 VIA BUT UNARY (NON UNARY)
/ GET TO D1=4 FROM U2=1 VIA GOTO
/ GET TO D1=4 FROM SB2=2 VIA GOTO
161 114 D1=4 B,R(10) OP B; BUT NONMOD
/ IF NONMOD GOTO B2=2 (BUT SERVICE)
/ IF NOT NONMOD FALL THROUGH TO D1=5
334 065 D1=5 DATO; ALBYT; CKOFF
/ GET TO D1=6 FROM D0=1A VIA GOTO

```

```

/ IF NONMOD GOTO B2-2 (BUT SERVICE)
/ IF NOT NONMOD FALL THROUGH TO D1-5
334 065 D1-5 DATO; ALBYT; CKOFF
/ GET TO D1-6 FROM DD-18 VIA GOTO
065 305 D1-6 DRIVERS-8; GOTO B2-2 (BUT SERVICE)

```

```

LOC NXT * DEST MODE 2 (AUTO-INC) GET DEST DATA, OP AND REPLACE
/ GET TO D2-1 FROM SO-2 VIA BUT DESTINATION (IR<5:3>=2)
/ GET TO D2-1 FROM SBE-1 VIA BUT DESTINATION (IR<5:3>=2)
105 331 D2-1 BA=R[D]; DATI; ALBYT
/ NOTE DATA IN PAUSE HERE
331 341 D2-2 B=R[D]+1+BYTE, BAR
/ GET TO D2-3 FROM D4-1 VIA GOTO
341 200 D2-3 R[D]=B; BUT JSRMP; GOTO D1-2; CKOFF
/ IF INST=JMP GOTO J1-1
/ IF INST=JSR GOTO J2-1
/ IF INST NOT JMP OR JSR FALL THROUGH TO D1-2

```

```

LOC NXT * DEST MODE 3 (AUTO-INC DEFERRED) GET DEST DATA, OP AND REPLACE
/ GET TO D3-1 FROM SO-2 VIA BUT DESTINATION (IR<5:3>=3)
/ GET TO D3-1 FROM SBE-1 VIA BUT DESTINATION (IR<5:3>=3)
107 160 D3-1 BA=R[D]; DATI
160 070 D3-2 B=R[D]+2
/ GET TO D3-3 FROM D5-1 VIA GOTO
070 071 D3-3 R[D]=B; CKOFF
/ GET TO D3-4 FROM D7-5 VIA GOTO
071 072 D3-4 B=UNIBUS DATA
072 200 D3-5 BA=B; DATI; BUT JSRMP; GOTO D1-2; ALBYT; CKOFF
/ NOTE DATA IN PAUSE HERE
/ IF INST=JMP GOTO J1-1
/ IF INST=JSR GOTO J2-1
/ IF INST NOT JMP OR JSR FALL THROUGH TO D1-2

```

```

LOC NXT * DEST MODE 4 (AUTO-DEC) GET DEST DATA, OP AND REPLACE
/ GET TO S4-1 FROM SO-2 VIA BUT DESTINATION (IR<5:3>=4)
/ GET TO S4-1 FROM SBE-1 VIA BUT DESTINATION (IR<5:3>=4)
111 341 D4-1 B,BA=R[D]-1+BYTE, BAR; DATI; ENABOVER; GOTO D2-3; ALBYT

```

```

LOC NXT * BEST MODE 5 (AUTO=DEC DEFERRED) GET DEST DATA, OP, AND REPLACE
/ GET TO D5=1 FROM SB=2 VIA BUT DESTINATION (IR<513>=5)
/ GET TO D5=1 FROM SBE=1 VIA BUT DESTINATION (IR<513>=5)
113 070 D5=1 0,BA=RDJ=2; DATI; ENABOVER; GOTO D3=3

```

```

LOC NXT * BEST MODE 6 (INDEXED) GET DTA, OP, AND REPLACE
/ GET TO D6=1 FROM SB=2 VIA BUT DESTINATION (IR<513>=6)
/ GET TO D6=1 FROM SBE=1 VIA BUT DESTINATION (IR<512>=6)
119 075 D6=1 SA=PC; DATI
079 077 D6=2 B=PC+2
077 057 D6=3 PC=0; CKOFF
057 300 D6=4 B=UNIBUS DATA
300 200 D6=5 0,BA=B+RDJ; DATI; BUT JSRMP; GOTO D1=2; ALBYT; CKOFF
/ NOTE DATA IN PUASE HERE
/ IF INST=JMP GOTO JI=1
/ IF INST=JSR GOTO JS=1
/ IF INST NOT JMP OR JSR FALL THROUGH TO D1=2

```

```

LOC NXT * BEST MODE 7 (INDEXED DEFERRED) GET DEST DATA, OP, AND REPLACE
/ GET TO D7=1 FROM SB=2 VIA BUT DESTINATION (IR<513>=7)
/ GET TO D7=1 FROM SBE=1 VIA BUT DESTINATION (IR<513>=7)
117 310 D7=1 SA=PC; DATI
310 104 D7=2 B=PC+2
104 320 D7=3 PC=0; CKOFF
320 100 D7=4 B=UNIBUS DATA
104 071 D7=5 BA=B+RDJ; DATI; CKOFF; GOTO D3=4

```

```

LOC NXT * DESTINATION MODE 0, BYTE
/ GET TO D00=1 FROM DB=1 VIA BUT BYTE (BYTE INST AND MOVE, BAR)
130 144 D00=1 R(11),B=B SEX; BUT UNARY
/ IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR, COM, INC, DEC, NEG, ABC, SMC, TST, ROR, ROL, ASR, ASL) GOTO U3=1

```

```

304 340 DBU=1 R(D)<7:0>_B; BUT SERVICE; GOTO F=1
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
/ IF STACK OVERFLOW GOTO KRT1A
/ IF POWER FAIL, GOTO PF=1
/ IF BR7 GOTO BG=1
/ IF BR6 GOTO BG=1
/ IF INTERNAL LINE CLOCK GOTO LC=1
/ IF HR5 GOTO BG=1
/ IF HR4 GOTO RG=1
/ IF UART RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTR
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1

```

LOC NXT * DESTINATION ODD BYTE
/ GET TO DO=1 FROM DI=2 VIA BUT BYTE (BYTE INST AND ODD ADDR)

```

270 123 DO=1 SHIFT B RIGHT; F SHIFT
123 124 DO=2 SHIFT B RIGHT; F SHIFT
124 125 DO=3 SHIFT B RIGHT; F SHIFT
125 126 DO=4 SHIFT B RIGHT; F SHIFT
126 127 DO=5 SHIFT B RIGHT; F SHIFT
127 130 DO=6 SHIFT B RIGHT; F SHIFT
130 131 DO=7 SHIFT B RIGHT; F SHIFT
131 132 DO=8 SHIFT B RIGHT
132 145 DO=9 R(11),L,B SEX; BUT UNARY
/ IF UNARY OTHER THAN JSR, JMP, OR SWAR (CLR,COM,INC,DEC,NEG,ADC,SBC,TST,ROR,ROL,ASR,ASL) GOTO U4=1
/ IF NOT UNARY FALL THROUGH TO DO=10
165 342 DO=10 R,R(10) OP B; BUT NONMOD
/ IF NONMOD GOTO B2=2 (BUT SERVICE)
/ IF NOT NONMOD FALL THROUGH TO DO=11
342 135 DO=11 SHIFT B LEFT; F SHIFT
135 136 DO=12 SHIFT B LEFT; F SHIFT
136 137 DO=13 SHIFT B LEFT; F SHIFT
137 140 DO=14 SHIFT B LEFT; F SHIFT
140 141 DO=15 SHIFT B LEFT; F SHIFT
141 142 DO=16 SHIFT B LEFT; F SHIFT
142 143 DO=17 SHIFT B LEFT; F SHIFT
143 065 DO=18 SHIFT B LEFT; DATO; CKOFF; GOTO D1=6; ALBYT

```

LOC NXT * DESTINATION EVEN BYTE
/ GET TO DE=1 FROM DI=2 VIA BUT BYTE (BYTE INST AND EVEN ADDR)

250 163 DE=1 R[111]_B SEX; GOTO D1=4; BUT UNARY
 / IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR, COM, INC, DEC, ADC, SBC, TST, ROR, ASR, ASL) GOTO U5=1
 / IF NOT UNARY FALL THROUGH TO D1=4

LOC NXT * UNARY OPERATORS GET SINGLE OPERAND IN H AND R[101]
 / GET TO U1=1 FROM D0=2 VIA BUT UNARY (INST=CLR, COM, INC, DEC, NEG, ADC, SBC, TST, ROR, ROL, ASR, ASL)
 352 162 U1=1 R[101]_B; PRE AUX; GOTO D0=3
 / GET TO U2=1 FROM D1=3 VIA BUT UNARY (INST=CLR, COM, ..., ASL) SEE U1=1
 353 163 U2=1 R[101]_B; PRE AUX; GOTO D1=4
 / GET TO U3=1 FROM D0=1 VIA BUT UNARY (INST=CLR, COM, ..., ASL) SEE U1=1
 354 164 U3=1 R[101]_B; PRE AUX; GOTO D0=2
 / GET TO U4=1 FROM D0=9 VIA BUT UNARY (INST=CLR, COM, ..., ASL) SEE U1=1
 355 165 U4=1 R[101]_B; PRE AUX; GOTO D0=10
 / GET TO U5=1 FROM DE=1 VIA BUT UNARY (INST=CLR, COM, ..., ASL) SEE U1=1
 373 163 U5=1 R[101]_B; PRE AUX; GOTO D1=4

LOC NXT * MOV8 INST
 / GET TO NB=0 FROM D0=1 VIA BUT MOVE (INST=MOVE AND BYTE)
 154 240 NB=0 PRE AUX
 240 152 NB=1 R[D]_B[10] OP 8
 152 040 NB=2 R[D]_B SEX; BUT SERVICE
 / PRIORITIES ARE LISTED HIGHEST TO LOWEST
 / IF T BIT TRAP GOTO BT=1
 / IF STACK OVERFLOW GOTO RT1A
 / IF POWER FAIL GOTO PF=1
 / IF BR7 GOTO BG=1
 / IF BR6 GOTO BG=1
 / IF INTERNAL LINE CLOCK GOTO LC=1
 / IF BR5 GOTO BG=1
 / IF BG4 GOTO BG=1
 / IF UART RECEIVE GOTO URTR
 / IF UART TRANSMIT GOTO URTX
 / IF CONSOLE STOP GOTO H=1
 / IF NONE OF THE ABOVE GOTO F=1

LOC NXT * BRANCH, CHANGE PC
 015 147 B=1 SHIFT 8 LEFT

```

/ IF BR7 GOTO BG=1
/ IF BR6 GOTO BG=1
/ IF INTERNAL LINE CLOCK GOTO LC=1
/ IF BR5 GOTO BG=1
/ IF BG4 GOTO BG=1
/ IF UARY RECEIVE GOTO URTR
/ IF UARY TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO P=1

```

```

LOC NXT * BRANCH, CHANGE PC
015 147 B=1  SHIFT B LEFT
147 146 B=2  B=PC=0
146 040 B=3  PC=BI BUT SERVICE
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
/ IF STACK OVERFLOW GOTO ERT1A
/ IF POWER FAIL GOTO PF=1
/ IF BR7 GOTO BG=1
/ IF BR6 GOTO BG=1
/ IF INTERNAL LINE CLOCK GOT LC=1
/ IF BR5 GOTO BG=1
/ IF BR4 GOTO BG=1
/ IF UARY RECEIVE GOTO URTR
/ IF UARY TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO P=1

```

```

LOC NXT * CONDITION CODE MASK (FOR BOTH SET AND CLEAR)
151 350 CCM=1 B=0 AND K[17]
350 112 CCM=2 BUT DEST
/ IF INST= SET, GO TO BG=1
/ IF INST= CLEAR, GOTO CC=1

```

```

LOC NXT * CLEAR CONDITION CODES
112 040 CC=1 PSW=PSW AND (B,0AR); BUT SERVICE
/ THIS EFFECTIVELY CLEARS THOSE BITS OF THE PSW WHICH ARE SET

```


LOC NXT * SET CONDITION CODES
 116 040 SC=1 PSW_PSW OR B; BUT SERVICE
 / PRIORITIES ARE LISTED HIGHEST TO LOWEST
 / IF I BIT TRAP GOTO RT=1
 / IF STACK OVERFLOW GOTO ERTIA
 / IF POWER FAIL GOTO PF=1
 / IF BR7 GOTO BG=1
 / IF BR6 GOTO RG=1
 / IF INTERNAL LINE CLOCK GOTO LC=1
 / IF BR5 GOTO BG=1
 / IF BR4 GOTO BG=1
 / IF UART RECEIVE GOTO URTR
 / IF UART TRANSMIT GOTO URTX
 / IF CONSOLE STOP GOTO H=1
 / IF NONE OF THE ABOVE GOTO F=1

LOC NXT * SWAB, MODE 0
 / GET TO SB1=1 FROM DG=2 VIA BUT UNARY (INST=SWAB AND MODE=0)
 / ROTATE LEFT ACCOMPLISHED VIA ASR
 166 172 SB1=1 ROTATE B LEFT; F SHIFT
 172 173 SB1=2 ROTATE B LEFT; F SHIFT
 173 174 SB1=3 ROTATE B LEFT; F SHIFT
 174 144 SB1=4 ROTATE B LEFT; F SHIFT
 144 174 SB1=5 ROTATE B LEFT; F SHIFT
 174 177 SB1=6 ROTATE B LEFT; F SHIFT
 177 006 SB1=7 ROTATE B LEFT; F SHIFT
 006 155 SB1=8 ROTATE B LEFT; PRE AUX; GOTO D0=3A

LOC NXT * SWAB, NOT MODE 0
 / GET TO SB2=1 FROM D1=3 VIA BUT UNARY (INST=SWAB)
 / ROTATE LEFT ACCOMPLISHED VIA ASR
 167 012 SB2=1 ROTATE B LEFT; F SHIFT
 017 220 SB2=2 ROTATE B LEFT; F SHIFT
 220 022 SB2=3 ROTATE B LEFT; F SHIFT
 022 023 SB2=4 ROTATE B LEFT; F SHIFT
 023 024 SB2=5 ROTATE B LEFT; F SHIFT
 024 031 SB2=6 ROTATE B LEFT; F SHIFT
 031 330 SB2=7 ROTATE B LEFT; F SHIFT
 330 163 SB2=8 ROTATE B LEFT; PRE AUX; GOTO D1=4

EQUIPMENT CORPORATION

LOC NXT * JMP
 / GET TO J1=1 FROM D1=1 VIA BUT JSRMP (INST=JMP)
 / GET TO J1=1 FROM D2=1 VIA BUT JSRMP (INST=JMP)
 / GET TO J1=1 FROM D3=5 VIA BUT JSRMP (INST=JMP)
 / GET TO J1=1 FROM D6=5 VIA BUT JSRMP (INST=JMP)
 204 260 J1=1 NOP
 / J1=1 MUST BE A NOP BECAUSE FOLLOWING A CKOFF, THE AMX WILL
 / BE FORCED TO TAKE DATA FROM THE UNIBUS.
 260 040 J1=2 PC_B; BUT SERVICE
 / PRIORITIES ARE LISTED HIGHEST TO LOWEST
 / IF T BIT TRAP GOTO BT=1
 / IF STACK OVERFLOW GOTO ERT1A
 / IF POWER FAIL GOTO PF=1
 / IF BR7 GOTO BG=1
 / IF BR6 GOTO BG=1
 / IF INTERNAL LINE CLOCK GOTO LC=1
 / IF BR5 GOTO BG=1
 / IF BR4 GOTO BG=1
 / IF UART RECEIVE GOTO URTR
 / IF UART TRANSMIT GOTO URTX
 / IF CONSOLE STOP GOTO H=1
 / IF NONE OF THE ABOVE GOTO F=1

LOC NXT * JSR
 / GET TO J2=1 FROM D1=1 VIA BUT JSRMP (INST=JSR)
 / GET TO J2=1 FROM D2=1 VIA BUT JSRMP (INST=JSR)
 / GET TO J2=1 FROM D3=5 VIA BUT JSRMP (INST=JSR)
 / GET TO J2=1 FROM D6=5 VIA BUT JSRMP (INST=JSR)
 212 261 J2=1 NOP
 / J2=1 MUST BE A NOP BECAUSE FOLLOWING A CKOFF, THE AMX WILL BE
 / FORCED TO TAKE DATA FROM THE UNIBUS.
 261 262 J2=1A R[11]_R
 262 214 J2=2 R, RA, R[6]=2; ENAHOVER
 214 206 J2=3 R[6]_B; CKOFF; DATA
 206 216 J2=4 DRIVERS_R[5]
 216 263 J2=5 B_PC
 263 264 J2=6 R[8]_B
 264 265 J2=7 R_P[11]
 265 040 J2=8 PC_B; BUT SERVICE
 / PRIORITIES ARE LISTED HIGHEST TO LOWEST
 / IF T BIT TRAP GOTO BT=1

```

LOC  NXT  * JSR
          / GET TO J2=1 FROM D1=1 VIA BUT JSRMP (INST=JSR)
          / GET TO J2=1 FROM D2=3 VIA BUT JSRMP (INST=JSR)
          / GET TO J2=1 FROM D3=9 VIA BUT JSRMP (INST=JSR)
          / GET TO J2=1 FROM D6=9 VIA BUT JSRMP (INST=JSR)
212  261  J2=1  NOP
          / J2=1 MUST BE A NOP BECAUSE FOLLOWING A CKOFF, THE AMX WILL BE
          / FORCED TO TAKE DATA FROM THE UNIBUS,
201  262  J2=1A R[11]=0
202  214  J2=2  0,BA=RC[6]=81 ENABOVER
214  206  J2=3  R[6]=0/ CKOFF/ DATO
206  216  J2=4  DRIVERS=R[9]
216  263  J2=5  0=PC
203  264  J2=6  R[8]=0
204  267  J2=7  0=R[11]
205  040  J2=8  PC=0/ BUT SERVICE
          / PRIORITIES ARE LISTED HIGHEST TO LOWEST
          / IF T BIT TRAP GOTO BT=1
          / IF STACK OVERFLOW GOT ERT1A
          / IF POWER FAIL GOTO PF=1
          / IF BR7 GOTO BG=1
          / IF BR6 GOTO BG=1
          / IF INTERNAL LINE CLOCK GOTO LC=1
          / IF BR5 GOTO BG=1
          / IF BR4 GOTO BG=1
          / IF UART RECEIVE GOTO URTR
          / IF UART TRANSMIT GOTO URTX
          / IF CONSOLE STOP GOTO H=1
          / IF NONE OF THE ABOVE GOTO P=1

```

```

LOC  NXT  * RTS
          / GET TO R1=1 FROM F=5 VIA BUT IR DECODE (INST=RTS)
207  221  R1=1  0A=R[6]/ DAT1
221  222  R1=2  0=R[6]+2
222  223  R1=3  R[6]=0
223  224  R1=4  0=R[0]
224  225  R1=5  PC=0/ CKOFF
225  332  R1=6  0=UNIBUS DATA/ GOTO D6=4

```

```

LOC  NXT  * RTI
          / GET TO R2=2 FROM F=9 VIA BUT IR DECODE (INST=RTI)
227  230  R2=1  0A=R[6]/ DAT1
230  231  R2=2  0=R[6]+2

```

```

231 232 R2=3 R[6]=0/ CKOFF
232 234 R2=4 PC=UNIBUS DATA
      / THERE IS NO R2=5 (ANY MORE)
234 235 R2=6 BA=R[6]/ DATI
235 236 R2=7 B=R[6]+2
236 237 R2=8 R[6]=0/ CKOFF
237 389 R2=9 PS=UNIBUS DATA/ GOTO B2=2 (BUT SERVICE)

```

```

LOC NXT * WAIT
      / GET TO M=1 FROM P=5 VIA BUY IR DECODE (INST=WAIT)
      / GET TO M=1 FROM M=1 VIA GOTO IF BUY SERVICE IS FALSE
843 848 M=1 BUY SERVICE
      / THE MICRO PROGRAM WILL LOOP ON M=1 UNTIL SOME HIGHER
      / PRIORITY CONDITION IS RECOGNIZED BY THE 'BUY SERVICE' ROM SEE P1#1 ON
      / THE CONE PRINT;
      / PRIORITIES ARE LISTED HIGHEST TO LOWEST
      / IF T BIT TRAP GOTO BT=1
      / IF STACK OVERFLOW GOTO ERTSA
      / IF POWER FAIL GOT PF=1
      / IF BR7 GOTO BG=1
      / IF BR6 GOTO BG=1
      / IF INTERNAL LINE CLOCK GOTO LC=1
      / IF BR5 GOTO BG=1
      / IF BR4 GOTO BG=1
      / IF UART RECEIVE URTX
      / IF UART TRANSMIT TOTO URTX
      / IF CONSOLE STOP GOTO M=1
      / IF NONE OF THE ABOVE TOTO P=1

```

```

LOC NXT * HALT
      / GET TO M=1 FROM P=5 VIA BUY IR DECODE (INST=HALT)
      / GET TO M=1 FROM BUY SERVICE
841 382 M=1 B=PC
      / DISPLAY PC IN LIGHTS BY PUTTING IT INTO B
      / GET TO M=2 FROM CEI=3 VIA GOTO
      / GET TO M=2 FROM CDI=5 VIA GOTO
      / GET TO M=2 FROM CL=3 VIA GOTO
382 388 M=2 BA=R[17]/ BUY SWITCH
      / THE BA IS LOADED HERE SO THAT THE ADDRESS WILL BE INCREMENTED BY +1 WHEN EXAMINING (DEPOSITING INTO)
      / AND BY +2 WHEN EXAMINING (DEPOSITING INTO) SUCCESSIVE CORE MEMORY;
      / IF START DEPRESSED GOTO CS=1
      / IF CONTINUE DEPRESSED GOTO CCS=1

```



```

LOC  NXT  * TRAP (VECTOR LOC=34)
          / GET TO T=1 FROM P=9 VIA BUT IR DECODE (INST=TRAP)
021  245  T=1  B=K[34]; GOTO ET=2

```

```

LOC  NXT  * RESERVED INST TRAP (VECTOR LOC=10)
          / GET TO RT=1 FROM P=5 VIA BUT IR DECODE (INST=NON VALID)
001  245  RT=1 B=K[10]; GOTO ET=2

```

```

LOC  NXT  * ERROR TRAP (BUS ERROR, STACK OVERFLOW, ILLEGAL INST) VECTOR LOC=4
          / THERE EXISTS ERT=1 (LOC=10) FOR BUS ERROR
          / THERE ALSO EXISTS ERT1A (LOC=46) FOR STACK OVERFLOW
          / ERT1A GOES TO ET2=2, A SEQUENCE WHICH DOESN'T HAVE THE
          / ENABOVER, WE DON'T WANT TO LOOK FOR STACK OVERFLOW WHILE
          / DOING THE STACK OVERFLOW TRAP, THE ET2=2 SEQUENCE REJOINS THE ET SEQUENCE AT ET=8
          / THERE ALSO EXISTS ERT1B (LOC=153) FOR ILLEGAL INST (JS* OR JMP, MODE 0)
010  245  ERT=1 B=K[4]; GOTO ET=2

```

```

LOC  NXT  * CONSOLE START SWITCH
          / GET TO CS=1 FOLLOWING RELEASE OF START SWITCH,
100  322  CS=1  IR=ZERO
          / CLOCKING THE IR TURNS ON THE RUN LIGHT
322  321  CS=2  BA,0=R[17]
321  040  CS=3  PC=0; BUT SERVICE
          / PRIORITIES ARE LISTED HIGHEST TO LOWEST
          / IF T BIT BRAP GOTO BT=1
          / IF STACK OVERFLOW GOTO ERT1A
          / IF POWER FAIL GOTO PF=1
          / IF BR7 GOTO BG=1
          / IF BR6 GOTO BG=1
          / IF INTERNAL LINE CLOCK GOTO LC=1
          / IF BR5 GOTO BG=1

```

```

IF P=4 GOTO BG=1
/ IF UART RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO P=1

```

```

LOC NXT * CONSOLE EXAMINE SWITCH - FIRST TIME IN SEQUENCE (DON'T INC R(17))
/ GET TO CE1=1 FROM H=2 VIA BUT SWITCH
/ GET TO CE1=1 FROM CE2=2 VIA GOTO
317 387 CE1=1 BA,B=R(17); BUT SWITCH
/ DISPLAY ADDRESS BY PUTTING INTO THE B REGISTER WHILE EXAMINE IS DOWN
/ LOOP ON CE1=1 UNTIL SWITCH IS RELEASED
387 326 CE1=2 DAT=1 CKOFF
326 382 CE1=3 B=UNIBUS DATA; GOTO H=2

```

```

LOC NXT * CONSOLE EXAMINE SWITCH - OTHER THAN FIRST IN SEQUENCE (INC R(17))
/ GET TO CE2=1 FROM H=2 VIA BUT SWITCH
319 371 CE2=1 B=R(17)+2
/ R(17) IS IN BA FROM H=2, THIS WILL CAUSE +2 TO BECOME +1 WHEN EXAMINING REGISTERS
371 317 CE2=2 R(17)+1; GOTO CE1=1

```

```

LOC NXT * CONSOLE DEPOSIT SWITCH - FIRST TIME IN SEQUENCE (DON'T INC R(17))
/ GET TO CD1=1 FROM H=2 VIA BUT SWITCH
/ GET TO CD1=1 FROM CD2=2 VIA GOTO
313 383 CD1=1 B=R(17); BUT SWITCH
/ LOOP ON CD1=1 UNTIL DEPOSIT SWITCH IS RELEASED
383 374 CD1=2 BA=K(287),BAR; DAT=1 CKOFF
/ COMPLEMENT OF 287 & 177978 = SWITCH REGISTER ADDRESS
374 314 CD1=3 B=UNIBUS DATA
314 372 CD1=4 BA=R(17); DAT=1 CKOFF
372 382 CD1=5 DRIVERS=B; GOTO H=2

```

LOC NXT * CONSOLE DEPOSIT SWITCH * OTHER THAN FIRST IN SEQUENCE (INC RE173)
 / BEY TO CD2=1 FROM H=3) VIA BUT SWITCH
 312 337 CD2=1 B=K[173]+2
 / RE173 IS IN BA; THIS WILL CAUSE +2 TO BECOME +1 WHEN DEPOSITING INTO REGISTERS
 337 313 CD2=2 R[173]=B; GOTO CD1=1

LOC NXT * CONSOLE CONTINUE SWITCH
 / BEY TO CCS=1 FROM H=2 VIA BUT SWITCH
 316 276 CCS=1 B=PC
 276 278 CCS=2 BUT SWITCH
 272 262 CCS=3 (R=ZERO) GOTO P=1
 / CLOCKING THE IR TURNS ON THE RUN LIGHT

LOC NXT * CONSOLE LOAD SWITCH
 / BEY TO CL=1 FROM H=2 VIA BUT SWITCH
 311 379 CL=1 B=K[207],BAR; DAT!! CKOFF
 / COMPLEMENT OF 207 & 177578 * SWITCH REGISTER ADDRESS
 379 367 CL=2 B=UNIBUS DATA
 367 382 CL=3 R[173]=B; GOTO H=2
 / CL=3 GOES TO H=2 VIA GOTO; IF LOAD IS STILL DEPRESSED, THE BUT
 / SWITCH IN H=2 WILL TAKE US BACK TO CL=1, THUS, AS LONG AS LOAD IS
 / DEPRESSED, CHANGES IN THE SWITCHES WILL SHOW UP IN THE B REG (LIGHTS) AND IN RE173.

LOC NXT * POWER FAIL (VECTOR LOC=24)
 / BEY TO PF=1 FROM SERVICE
 243 249 PF=1 B=K[24]; GOTO ET=2

LOC NXT * RESTART FROM POWER FAIL (VECTOR LOC=24)
 / BEY TO RS=1 MYSTERIOUSLY AS POWER COMES UP (NXY CHIPS, FB92 AND FIB3 SHOWN ON THE COMP PRINT,
 / ARE DISABLED FORCING THE MICROPROGRAM TO RS=1 IN LOC 0;
 241 241 RS=1 B=K[24]; DAT!
 241 347 RS=1A CKOFF


```

/ MUST DO CKOFF IN RS=1A BECAUSE OF CONFLICT BETWEEN
/ CKOFF AND INIT CREATED BY CKOFF ASSOCIATED WITH AUX CONTROL
367 874 RS=2 PC=UNIBUS DATA
874 351 RS=3 BA=K(24)+2( DAY); CKOFF
391 383 RS=4 PS=UNIBUS DATA/ GOTO B2=2 (SERVICE)

```

```

LOC NXT * INTERRUPT SERVICING
/ GET TO INT=1 FROM BG=2 VIA BUT INT (TRUE)
325 246 INT=1 R(12)=UNIBUS DATA; SET SLAVESYNC; GOTO ET=3

```

```

LOC NXT * BUS GRANT SERVICE
/ GET TO BG=1 FROM BUT SERVICE
848 385 BG=1 BUT INTERRUPT; GOTO B2=2 (BUT SERVICE)
/ IF INTERRUPT GOTO INT=1
/ IF NO INTERRUPT FALL THROUGH TO B2=2

```

```

LOC NXT * NOP = BRANCH CONDITION NOT TRUE (PC UNCHANGED)
/ B2=1 HAS BEEN ELIMINATED BECAUSE NEWI IS NO LONGER
/ GET TO B2=2A FROM DB=3 VIA BUT NONMOD (TRUE)
/ GET TO B2=2B FROM DI=4 VIA BUT NONMOD (TRUE)
/ GET TO B2=2C FROM DO=18 VIA BUT NONMOD (TRUE)
/ GET TO B2=2D FROM P=5 VIA BUT (R DECODE, BRANCH INST, CONDITION NOT TRUE)
/ GET TO B2=2 FROM RST=1 VIA GOTO
/ GET TO B2=2 FROM DB=4 VIA GOTO
/ GET TO B2=2 FROM DBB=2 VIA BUT NONMOD (TRUE)
/ GET TO B2=2 FROM MB=2 VIA GOTO
/ GET TO B2=2 FROM CC=1 VIA GOTO
/ GET TO B2=2 FROM SC=1 VIA GOTO
/ GET TO B2=2 FROM J2=8 VIA GOTO
/ GET TO B2=2 FROM RS=10 VIA GOTO
/ GET TO B2=2 FROM ET=13 VIA GOTO
385 848 B2=2 BUT SERVICE
/ PRIORITIES ARE LISTED HIGHEST TO LOWEST
/ IF T BIT TRAP GOTO BT=1
/ IF STACK OVERFLOW GOTO ERTA
/ IF POWER FAIL GOTO PF=1
/ IF B7 GOTO BG=1

```


ERY1A NOT EXPLICITLY SHOWN IN FLOW
08-3A NOT EXPLICITLY SHOWN IN FLOW
A147 NOT EXPLICITLY SHOWN IN FLOW
E12-2 NOT EXPLICITLY SHOWN IN FLOW
E12-3 NOT EXPLICITLY SHOWN IN FLOW
E12-5 NOT EXPLICITLY SHOWN IN FLOW
E12-6 NOT EXPLICITLY SHOWN IN FLOW
E12-7 NOT EXPLICITLY SHOWN IN FLOW
ERY1B NOT EXPLICITLY SHOWN IN FLOW
02-2A NOT EXPLICITLY SHOWN IN FLOW
02-2B NOT EXPLICITLY SHOWN IN FLOW
02-2C NOT EXPLICITLY SHOWN IN FLOW
02-2D NOT EXPLICITLY SHOWN IN FLOW

PAGE REVISION CONTROL SHEET

SH NO.	PAGE REVISIONS	REMARKS
1	A	
2	B	
3	C	
4	D	
5	E	
6	A	
7	A	
8	A	
9	A	
10	A	
11	A	
12	A	
13	A	
14	A	
15	A	
16	A	
17	A	
18	A	
19	A	
20	A	
21	A	
22	A	
23	A	
24	A	
25	A	
26	A	
27	A	
28	A	
29	A	
30	A	
31	A	
32	A	
33	A	
34	A	
35	A	
36	A	
37	A	
38	A	
39	A	
40	A	
41	A	
42	A	
43	A	
44	A	
45	A	
46	A	
47	A	
48	A	
49	A	
50	A	
51	A	
52	A	
53	A	
54	A	
55	A	
56	A	
57	A	
58	A	
59	A	
60	A	
61	A	
62	A	
63	A	
64	A	
65	A	
66	A	
67	A	
68	A	
69	A	
70	A	
71	A	
72	A	
73	A	
74	A	
75	A	
76	A	
77	A	
78	A	
79	A	
80	A	
81	A	
82	A	
83	A	
84	A	
85	A	
86	A	
87	A	
88	A	
89	A	
90	A	
91	A	
92	A	
93	A	
94	A	
95	A	
96	A	
97	A	
98	A	
99	A	
100	A	

FIRST USED ON OPTION/MODEL
KDI I - B



TITLE
MICROPROGRAM SYMBOLIC LISTING

SIZE CODE NUMBER REV.
K MP KDI I - B - 2 E

DRN. *H. Town* DATE 8-21-72
CHK'D. *P. McCalloug* DATE 8-21-72
ENG. B. ARMSTRONG DATE 8-29-72
PROJ. ENG. B. ARMSTRONG DATE 8-29-72
PROD. DATE

NEXT HIGHER ASSY.
B-DD-KDI I - B
SCALE *1:1*
SHEET 1 OF 6

DATE	ENG.	ETCH REV.	ECO NO.
8-21-72	BA		0002
9-24-72	MT		0003
10-30-72	MT		0004
8-15-73	DR		KDI B - 0005
6-14-74	DR		KDI B - 0005

"THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
COPYRIGHT © 1972 DIGITAL EQUIPMENT CORPORATION"



NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CKO	CRI	F5H	PSW	SAM	SPA	SPF	TNS	NXT
A145	145	YES	PSW	AA	ON	L	+1	H	MOV	NON	ON	OFF	OFF	L	ROM	R0	WRI	ZRO	
B-1	015	NO	SP	ASL	OFF	H	BRG	SL	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B-2
B-2	147	NO	SP	A+B	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	B-3
B-3	146	NO	SP	RL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	BG-1
B2-2	305	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
B2-2A	133	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
B2-2B	135	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
B2-2C	143	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
B2-2D	013	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
BG-1	040	NO	SP	AL	OFF	H	BRG	H	INT	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	B2-2
BT-1	048	NO	NUL	AL	OFF	H	BRG	L	CON	14	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
CC-1	112	NO	PSW	ABBAR	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	BG-1
CCM-1	151	NO	NUL	AANDB	OFF	H	BRG	L	CON	360	OFF	OFF	OFF	H	ROM	R0	WRI	NON	CCM-2
CCM-2	150	NO	SP	AL	OFF	H	BRG	H	DST	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	CC-1
CCS-1	316	NO	SP	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	CCS-2
CCS-2	276	NO	SP	AL	OFF	H	BRG	H	SW	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	DO-1
CCS-3	272	NO	SP	ZERO	OFF	H	BRG	H	IRC	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	F-1
CD1-1	113	NO	SP	AL	OFF	H	BRG	L	SW	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	CD1-2
CD1-2	303	NO	NUL	ABAR	OFF	L	BRG	H	CON	207	ON	OFF	OFF	H	ROM	R0	WRI	?	CD1-3
CD1-3	174	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	CD1-4
CD1-4	314	NO	SP	AL	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R17	REA	?	CD1-5
CD1-5	172	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	H-2
CD2-1	112	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R17	REA	NON	CD2-2
CD2-2	137	NO	SP	RL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	CD1-1
CE1-1	317	NO	SP	AL	OFF	L	BRG	L	SW	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	CE1-2
CE1-2	107	NO	SP	AL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	?	CE1-3
CE1-3	326	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	H-2
CE2-1	315	NO	SP	A+B	OFF	L	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R17	REA	NON	CE2-2
CE2-2	171	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	CE1-1
CL-1	111	NO	NUL	ABAR	OFF	L	BRG	H	CON	207	ON	OFF	OFF	H	ROM	R0	WRI	?	CL-2
CL-2	175	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	CL-3
CL-3	167	NO	SP	RL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	H-2
CS-1	100	NO	SP	ZERO	OFF	H	BRG	H	IRC	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	CS-2
CS-2	122	NO	SP	AL	OFF	L	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	CS-3
CS-3	121	NO	SP	BL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	BG-1
DO-1	101	NO	SP	AL	OFF	H	BRG	L	MOV	NON	OFF	OFF	OFF	H	IRD	R0	REA	NON	MB-0
DO-2	157	NO	SP	RL	OFF	H	BRG	H	UNY	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	DO-17
DO-3	162	NO	SP	ABAR	OFF	H	BRG	L	WHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	DO-4
DO-3A	155	NO	SP	ABAR	OFF	H	BRG	L	WHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	DO-4
DO-4	132	NO	SP	RL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	IRD	R0	WRI	NON	BG-1
D1-1	103	YES	SP	AL	OFF	L	BRG	L	JOT	NON	ON	OFF	OFF	H	IRD	R0	REA	?	D1-2
D1-2	200	NO	NUL	AL	OFF	H	BRG	L	BYT	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	D1-3
D1-3	210	NO	SP	RL	OFF	H	BRG	H	UNY	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	DO-18
D1-4	163	NO	SP	ABAR	OFF	H	BRG	L	WHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	D1-5

EQUIPMENT CORPORATION

NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CRD	CRJ	FSM	PSM	SAN	SPA	SPF	TNS	NXT
D1-5	334	YES	SP	AL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	N	D1-6
D1-6	065	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	D2-2
D2-1	105	YES	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	TRD	R0	REA	TP	D2-2
D2-2	331	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	TRD	R0	REA	NON	D2-3
D2-3	341	NO	SP	BL	OFF	H	BRG	H	JOJ	NON	ON	OFF	OFF	H	TRD	R0	WRI	NON	D3-2
D3-1	107	NO	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	TRD	R0	REA	I	D3-2
D3-2	160	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	TRD	R0	REA	NON	D3-3
D3-3	070	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	TRD	R0	WRI	NON	D3-4
D3-4	071	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	D3-5
D3-5	072	YES	SP	BL	OFF	L	BRG	H	JOJ	NON	ON	OFF	OFF	H	ROM	R0	REA	TP	D1-2
D4-1	111	YES	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	TRD	R0	REA	TP	D2-3
D5-1	113	NO	SP	A-B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	TRD	R0	REA	I	D1-3
D6-1	115	NO	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	D6-2
D6-2	075	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R7	REA	NON	D6-3
D6-3	077	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	D6-4
D6-4	057	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	D6-5
D6-5	300	YES	SP	A+B	OFF	L	BRG	L	JOJ	NON	ON	OFF	OFF	H	TRD	R0	REA	TP	D1-2
D7-1	117	NO	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	D7-2
D7-2	310	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R7	REA	NON	D7-3
D7-3	104	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	D7-4
D7-4	320	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	D7-5
D7-5	106	NO	SP	A+B	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	TRD	R0	REA	I	D3-4
DB0-1	156	NO	SP	BL	OFF	H	SEX	L	UNY	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	SB1-5
DB0-2	164	NO	SP	ABAR	OFF	H	BRG	L	WHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	DB0-3
DB0-3	304	NO	SPR	BL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	TRD	R0	WRI	NON	BG-1
DBE-1	110	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	H-1
DE-1	250	NO	SP	BL	OFF	H	SEX	L	UNY	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	D1-4
DO-1	270	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-2
DO-10	168	NO	SP	ABAR	OFF	H	BRG	L	WHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	DO-11
DO-11	342	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-12
DO-12	135	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-13
DO-13	136	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-14
DO-14	137	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-15
DO-15	140	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-16
DO-16	141	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-17
DO-17	142	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-18
DO-18	143	YES	SP	AL	OFF	H	BRG	SL	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	N	D1-6
DO-2	123	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-3
DO-3	124	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-4
DO-4	125	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-5
DO-5	126	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-6
DO-6	127	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-7
DO-7	130	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	R0	REA	NON	DO-8
DO-8	131	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	DO-9

EQUIPMENT CORPORATION

NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CKO	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
DO-9	132	NO	SP	BL	OFF	H	SEX	L	UNY	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	A145
ERT-1	010	NO	NUL	AL	OFF	H	BRG	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ERT1A	046	NO	NUL	AL	OFF	H	BRG	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET2-2
ERT1B	153	NO	NUL	AL	OFF	H	BRG	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ET-1	011	NO	NUL	AL	OFF	H	BRG	L	CON	30	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ET-10	254	NO	SP	AL	OFF	L	BRG	H	TRC	NON	ON	OFF	OFF	H	ROM	R12	REA	T	ET-11
ET-11	255	NO	SP	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	ET-12
ET-12	256	NO	SP	A+B	OFF	L	+1	L	NON	NON	ON	ON	OFF	H	ROM	R12	REA	1	ET-13
ET-13	257	NO	SP	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	ET-2
ET-2	245	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R12	WRI	NON	ET-3
ET-3	246	NO	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET-5
ET-5	247	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	0	ET-6
ET-6	226	NO	PSW	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	ET-7
ET-7	251	NO	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET-8
ET-8	252	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	0	ET-9
ET-9	253	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	ET-10
ET2-2	003	NO	SP	BL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R12	WRI	NON	ET2-3
ET2-3	004	NO	SP	A+B-1	OFF	L	+1	L	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET2-5
ET2-5	036	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	0	ET2-6
ET2-6	037	NO	PSW	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	ET2-7
ET2-7	051	NO	SP	A+B-1	OFF	L	+1	L	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	ET-8
F-1	062	NO	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	T	F-2
F-2	053	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R7	REA	NON	F-3
F-3	365	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	F-4
F-4	364	NO	NUL	AL	OFF	H	BRG	L	TRC	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	F-5
F-5	061	NO	SP	BL	OFF	H	SEX	L	TRC	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	RT-1
H-1	041	NO	SP	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	H-2
H-2	302	NO	SP	AL	OFF	L	BRG	H	SW	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	D6-5
INT-1	395	NO	SP	AL	OFF	H	BRG	H	SVE	NON	OFF	OFF	OFF	H	ROM	R12	WRI	NON	ET-3
IT-1	273	NO	NUL	AL	OFF	H	BRG	L	CON	20	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
J1-1	204	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	J1-2
J1-2	260	NO	SP	BL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	BG-1
J2-1	212	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	J2-1A
J2-1A	261	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R11	WRI	NON	J2-2
J2-2	262	NO	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	ROM	R6	REA	NON	J2-3
J2-3	214	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	0	J2-4
J2-4	206	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	TRB	R0	REA	NON	J2-5
J2-5	216	NO	SP	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	NON	J2-6
J2-6	263	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	TRB	R0	WRI	NON	J2-7
J2-7	264	NO	SP	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R11	REA	NON	J2-8
J2-8	265	NO	SP	BL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	BG-1
LC-1	042	NO	NUL	AL	OFF	H	BRG	L	CON	100	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
MB-0	154	NO	SP	AL	ON	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	MB-1
MB-1	240	NO	SP	ABAR	OFF	H	BRG	L	NON	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	MB-2

EQUIPMENT CORPORATION

NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRC	RUT	CON	CKO	CR1	FSH	PSW	SAM	SPA	SPF	TNS	NXT
MB-2	152	NO	SP	RL	OFF	H	SEY	H	SRV	NON	OFF	OFF	OFF	H	IRD	R0	WRI	NON	BG-1
PF-1	243	NO	NUL	AL	OFF	L	ERC	L	CON	24	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
R1-1	205	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	I	R1-2
R1-2	221	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R6	REA	NON	R1-3
R1-3	222	NO	SP	BL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	WRI	NON	R1-4
R1-4	223	NO	SP	AL	OFF	L	ERC	L	NON	NON	OFF	OFF	OFF	H	IRD	R0	REA	NON	R1-5
R1-5	224	NO	SP	BL	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	R1-6
R1-6	225	NO	NUL	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	DB-4
R2-1	227	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	I	R2-2
R2-2	230	NO	SP	A+B	OFF	L	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R6	REA	NON	R2-3
R2-3	231	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	NON	R2-4
R2-4	232	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	R2-6
R2-6	234	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	REA	I	R2-7
R2-7	235	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R6	REA	NON	R2-8
R2-8	236	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	NON	R2-9
R2-9	237	NO	NUL	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	R2-2
RS-1	220	NO	NUL	AL	OFF	L	ERC	H	CON	24	OFF	OFF	OFF	H	ROM	R0	WRI	I	RS-1A
RS-1A	241	NO	SP	AL	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	RS-2
RS-2	247	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	RS-3
RS-3	274	NO	NUL	A+B	OFF	L	+1	H	CON	24	ON	ON	OFF	H	ROM	R0	WRI	I	RS-4
RS-4	351	NO	SP	AL	OFF	H	ERC	H	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	R2-2
RST-1	357	NO	SP	AL	OFF	H	ERC	H	INI	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	R2-2
RT-1	201	NO	NUL	AL	OFF	H	ERC	L	CON	10	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
S0-1	201	NO	SP	AL	OFF	H	ERC	L	BYT	NON	OFF	OFF	OFF	H	IRS	R0	REA	NON	S0-2
S0-2	207	NO	SP	BL	OFF	H	ERC	H	DST	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	RT-1
S1-1	203	YES	SP	AL	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S1-2
S1-2	244	NO	NUL	AL	OFF	H	ERC	L	BYT	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S0-2
S2-1	205	YES	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S2-2
S2-2	301	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	IRS	R0	REA	NON	S2-3
S2-3	314	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	WRI	NON	S1-2
S3-1	207	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S3-2
S3-2	216	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	IRS	R0	REA	NON	S3-3
S3-3	217	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	WRI	NON	S3-4
S3-4	134	NO	NUL	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S3-5
S3-5	274	YES	SP	BL	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	I	S1-2
S4-1	211	YES	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S2-3
S5-1	213	NO	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S3-3
S6-1	215	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	S6-2
S6-2	225	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R7	REA	NON	S6-3
S6-3	226	NO	SP	BL	OFF	H	ERC	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	S6-4
S6-4	227	NO	NUL	AL	OFF	H	ERC	L	NON	NON	OFF	OFF	OFF	H	PAR	R0	REA	NON	S6-5
S6-5	237	YES	SP	A+B	OFF	L	ERC	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S1-2
S7-1	217	NO	SP	AL	OFF	L	ERC	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	REA	I	S7-2
S7-2	232	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R7	REA	NON	S7-3

1

NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CKO	CRI	FSH	PSW	SAM	SPA	SPF	TNS	NXT
S7-3	033	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	S7-4
S7-4	034	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	S7-5
S7-5	035	NO	SP	P-R	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	RO	REA	Y	S3-4
SB1-1	166	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-2
SB1-2	172	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-3
SB1-3	173	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-4
SB1-4	174	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-5
SB1-5	144	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-6
SB1-6	176	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-7
SB1-7	177	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB1-8
SB1-8	006	NO	SP	ASR	ON	H	BRG	SL	NON	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	D0-3A
SB2-1	167	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-2
SB2-2	012	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-3
SB2-3	220	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-4
SB2-4	022	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-5
SB2-5	023	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-6
SB2-6	024	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-7
SB2-7	031	NO	SP	ASR	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB2-8
SB2-8	330	NO	SP	ASR	ON	H	BRG	SL	NON	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	D1-4
SB2-1	047	NO	SP	BL	OFF	H	BRG	H	DBT	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	RT-1
SB0-1	067	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-2
SB0-2	146	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-3
SB0-3	124	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-4
SB0-4	340	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-5
SB0-5	361	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-6
SB0-6	050	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-7
SB0-7	020	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-8
SB0-8	052	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	SBE-1
SC-1	116	NO	PSW	ACORR	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	L	ROM	RO	REA	NON	BG-1
T-1	021	NO	NUL	AL	OFF	H	BRG	L	CON	34	OFF	OFF	OFF	H	ROM	RO	WRI	NON	ET-2
U1-1	352	NO	SP	BL	ON	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	D0-3
U2-1	153	NO	SP	BL	ON	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	D1-4
U3-1	354	NO	SP	BL	ON	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	D0-2
U4-1	355	NO	SP	BL	ON	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	D0-10
U5-1	371	NO	SP	BL	ON	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	D1-4
URTR	064	NO	NUL	AL	OFF	H	BRG	L	CON	60	OFF	OFF	OFF	H	ROM	RO	WRI	NON	ET-2
URTX	060	NO	NUL	AL	OFF	H	BRG	L	CON	64	OFF	OFF	OFF	H	ROM	RO	WRI	NON	ET-2
W-1	063	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	BG-1

EQUIPMENT CORPORATION

N A N	L O C	N X T	A L U	C F A R B U I N X	P S S E S P I M I S P	S S S B K P M B O O I T	B B S S A T P P R P P 2	C A T K B N O T S	A B L R G G	B U T	
A145	145	0000	0000	0000	0010	0000	1010	0100	0000	0000	0101
B-1	015	1001	1000	1100	0011	1001	1011	1110	1111	1101	1111
B-2	147	1001	1001	0110	0011	1101	1111	1111	1111	1111	1111
B-3	146	1101	1111	0101	1011	1101	1111	1101	1111	1100	1100
B2-2	105	1101	1111	0000	1011	1001	1011	1110	1111	1100	1100
B2-2A	133	1101	1111	0000	1011	1001	1011	1110	1111	1100	1100
B2-2B	135	1101	1111	0000	1011	1001	1011	1110	1111	1100	1100
B2-2C	141	1101	1111	0000	1011	1001	1011	1110	1111	1100	1100
B2-2D	019	1101	1111	0000	1011	1001	1011	1110	1111	1100	1100
BG-1	040	0011	1010	0000	1011	1001	1011	1110	1111	1100	0001
BT-1	045	0101	1010	0000	1011	1101	1011	1100	1111	1011	1101
CC-1	112	1101	1111	0010	1011	0001	1011	1110	1111	0000	1100
CCN-1	151	0001	0111	0001	1011	1001	1111	1100	1111	1011	1101
CCN-2	150	1011	0101	0000	1011	1001	1011	1110	1111	1100	1001
CCS-1	116	0100	0001	0000	1011	1101	1111	1111	1111	1111	1111
CCS-2	276	0100	0111	0000	1011	1001	1011	1110	1111	1100	0110
CCS-3	272	1100	1101	0011	1011	1001	1011	1110	1111	1100	0000
CD1-1	313	0011	1100	0000	1011	1111	1111	1111	1111	1111	0110
CD-2	103	0000	0011	1111	1011	1001	1011	0100	0110	1000	1101
CD1-3	374	0011	0011	0000	1011	1001	0001	1110	1111	1011	1111
CD1-4	314	0000	0101	0000	1011	1111	1111	0111	0101	1100	1111
CD1-5	172	0011	1101	0101	1011	1001	0001	1110	1111	1100	1111
CD2-1	112	0010	0000	0110	0111	1111	1110	1111	1111	1111	1111
CD2-2	137	0011	0100	0101	1011	1111	1111	1101	1111	1100	1111
CE1-1	117	0011	1000	0000	1011	1111	1111	0111	1111	1111	0110
CE1-2	107	0010	1001	0000	1011	1001	1011	1110	0110	1100	1111
CE1-3	126	0011	1101	0000	1011	1001	0001	1110	1111	1011	1111
CE2-1	115	0000	0110	0110	0111	1111	1110	0111	1111	1111	1111
CE2-2	171	0011	0000	0101	1011	1111	1111	1101	1111	1100	1111
CL-1	111	0000	0010	1111	1011	1001	1011	0100	0110	1000	1101
CL-2	175	0000	1000	0000	1011	1001	0001	1110	1111	1011	1111
CL-3	167	0011	1101	0101	1011	1111	1111	1101	1111	1100	1111
CS-1	100	0010	1101	0011	1011	1001	1011	1110	1111	1100	0000
CS-2	122	0010	1110	0000	1011	1111	1111	0111	1111	1111	1111
CS-3	121	1101	1111	0101	1011	1101	1111	1101	1111	1100	1100
DO-1	101	1001	0011	0000	1011	1001	0011	1110	1111	1111	0101
DO-2	157	1001	1101	0101	1011	1011	1111	1100	1111	1100	1010
DO-3	162	0010	0101	1111	1111	1011	1011	1110	1111	1111	0010
DO-3A	155	0010	0101	1111	1111	1011	1011	1110	1111	1111	0010
DO-4	132	1101	1111	0101	1011	1001	0011	1100	1111	1100	1100

EQUIPMENT CORPORATION

N A 4	L O C	N K T	A L U	C F A R S U I H X	P S S D S P P I N 1 3 P	S S S B M P M B O O 1 T	B B S S A T P P R P P 2	C A T K R N D T S	A R I R G G	B U T
D1-1	101	0111	1111	0000	1 0 1 1	1 0 0 0	0 0 1 1	0 1 1 0	1 1 1 1	10 1 1
D1-2	200	0111	0111	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	10 1 1
D1-3	210	1001	1100	0101	1 0 1 1	1 0 1 1	1 1 1 1	1 1 0 0	1 1 1 1	11 0 0
D1-4	163	0010	0011	1111	1 1 1 1	1 0 1 1	1 0 1 1	1 1 1 0	1 1 1 1	11 1 1
D1-5	114	1100	1010	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	0 0 0 1	1 1 0 0
D1-6	065	0011	1010	0101	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0
D2-1	105	0010	0110	0000	1 0 1 1	1 0 0 0	0 0 1 1	0 1 1 0	1 0 1 0	1 1 0 0
D2-2	331	0001	1110	0110	0 1 1 1	1 0 0 1	0 0 1 0	1 1 1 0	1 1 1 1	1 1 1 1
D2-3	141	0111	1111	0101	1 0 1 1	1 0 0 1	0 0 1 1	1 1 0 0	0 1 1 1	1 1 0 0
D3-1	107	1000	1111	0000	1 0 1 1	1 0 0 1	0 0 1 1	0 1 1 0	1 1 1 0	1 1 0 0
D3-2	160	1100	0111	0110	0 1 1 1	1 0 0 1	0 0 1 0	1 1 1 0	1 1 1 1	1 1 1 1
D3-3	074	1100	0110	0101	1 0 1 1	1 0 0 1	0 0 1 1	1 1 0 0	0 1 1 1	1 1 0 0
D3-4	071	1100	0101	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	1 0 1 1
D3-5	072	0111	1111	0101	1 0 1 1	1 0 0 0	1 0 1 1	0 1 1 0	0 0 1 0	1 1 0 0
D4-1	111	0001	1110	1001	0 0 1 1	1 0 0 0	0 0 1 0	0 1 1 0	1 0 1 0	1 1 1 1
D5-1	113	1100	0111	1001	0 0 1 1	1 0 0 1	0 0 1 0	0 1 1 0	1 1 1 0	1 1 1 1
D6-1	115	1100	0010	0000	1 0 1 1	1 1 0 1	1 1 1 1	0 1 1 1	1 1 1 0	1 1 0 0
D6-2	075	1100	0000	0110	0 1 1 1	1 1 0 1	1 1 1 0	1 1 1 1	1 1 1 1	1 1 1 1
D6-3	077	1101	0000	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	0 1 1 1	1 1 0 0
D6-4	057	0011	1111	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	1 0 1 1
D6-5	300	0111	1111	0110	0 0 1 1	1 0 0 0	0 0 1 1	0 1 1 0	0 0 1 0	1 1 1 1
D7-1	117	0011	0111	0000	1 0 1 1	1 1 0 1	1 1 1 1	0 1 1 1	1 1 1 0	1 1 0 0
D7-2	310	1011	1011	0110	0 1 1 1	1 1 0 1	1 1 1 0	1 1 1 1	1 1 1 1	1 1 1 1
D7-3	106	0010	1111	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	0 1 1 1	1 1 0 0
D7-4	120	1011	1001	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	1 0 1 1
D7-5	106	1100	0110	0110	0 0 1 1	1 0 0 1	0 0 1 1	0 1 1 0	0 1 1 0	1 1 0 0
D80-1	166	1001	1011	0101	1 0 1 1	1 0 1 1	1 1 1 1	1 0 0 0	1 1 1 1	1 1 1 1
D80-2	164	0011	1011	1111	1 1 1 1	1 0 1 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 1
D80-3	304	1101	1111	0101	1 0 1 1	1 0 0 1	0 0 1 1	1 1 0 0	1 1 1 1	0 1 0 0
D8E-1	110	1101	1110	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0
DE-1	250	1000	1100	0101	1 0 1 1	1 0 1 1	1 1 1 1	1 0 0 0	1 1 1 1	1 1 1 1
DO-1	270	1010	1100	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 0
DO-10	165	0001	1101	1111	1 1 1 1	1 0 1 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 1
DO-11	142	1010	0010	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1
DO-12	135	1010	0001	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1
DO-13	136	1010	0000	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1
DO-14	137	1001	1111	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1
DO-15	140	1001	1110	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1
DO-16	141	1001	1101	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1
DO-17	142	1001	1100	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1

EQUIPMENT CORPORATION

N A M	L O C	N X T	A L U	C F R S U I H X	P S S D S P P I W 1 3 F	S S S B M P M B D D 1 T	B B S S A T P P R P F 2	C A T K B N O T S	A B L R G G	B U T
DO-10	143	1100	1012	0000	1 0 1 1	1 0 0 1	1 1 1 0	0 0 0 1	11 0 1	1111
DO-2	123	1010	1011	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-3	124	1010	1010	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-4	125	1010	1001	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-5	126	1010	1000	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-6	127	1010	0111	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-7	130	1010	0110	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-8	131	1010	0101	0000	1 0 1 1	1 0 0 1	1 1 1 0	1 1 1 1	11 1 0	1111
DO-9	132	1001	1010	0101	1 0 1 1	1 0 1 1	1 0 0 0	1 1 1 1	11 1 1	1010
ERT-1	010	0101	1010	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	10 1 1	1101
ERT1A	046	1111	1100	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	10 1 1	1101
ERT1B	153	0101	1010	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	10 1 1	1101
ET-1	011	0101	1010	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 1 0	10 1 1	1101
ET-10	234	0101	0010	0000	1 0 1 1	1 1 1 1	1 0 1 1	0 1 1 0	11 0 0	0000
ET-11	235	0101	0001	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	11 1 1	1111
ET-12	236	0101	0000	0110	0 1 1 1	1 1 1 1	1 0 1 0	0 1 1 0	11 1 1	1111
ET-13	237	0011	1010	0000	1 0 1 1	0 0 0 1	1 0 1 1	1 1 1 0	11 1 1	1111
ET-2	245	0101	1001	0101	1 0 1 1	1 1 1 1	1 0 1 1	1 1 0 0	11 0 0	1111
ET-3	246	0101	1000	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	11 1 1	0100
ET-5	247	0110	1001	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	0 1 0 1	1111
ET-6	226	0101	0110	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	00 0 0	1111
ET-7	231	0101	0101	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	11 1 1	0100
ET-8	232	0101	0100	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	0 1 0 1	1111
ET-9	233	0101	0011	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 1	11 0 0	1111
ET2-2	003	1111	1011	0101	1 0 1 1	1 1 1 1	1 0 1 1	1 1 0 0	11 1 1	1111
ET2-3	004	1110	0001	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	11 1 1	1111
ET2-5	036	1110	0000	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	0 1 0 1	1111
ET2-6	037	1101	0110	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	00 0 0	1111
ET2-7	031	0101	0101	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	11 1 1	1111
F-1	062	1101	0100	0000	1 0 1 1	1 1 0 1	1 1 1 1	0 1 1 1	11 1 0	1111
F-2	053	0000	1010	0110	0 1 1 1	1 1 0 1	1 1 1 0	1 1 1 1	11 1 1	1111
F-3	365	0000	1011	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	0 1 1 1	1111
F-4	364	1100	1110	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	10 1 1	0000
F-5	061	1111	1110	0101	1 0 1 1	1 0 0 1	1 0 1 1	1 0 1 0	11 1 1	0111
H-1	041	0011	1101	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 1	11 1 1	1111
H-2	302	0011	1111	0000	1 0 1 1	1 1 1 1	1 1 1 1	0 1 1 1	11 0 0	0110
INT-1	325	0101	1001	0000	1 0 1 1	1 1 1 1	1 0 1 1	1 1 0 0	11 0 0	1000
IT-1	273	0101	1010	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 1	10 1 1	1101
J1-1	204	0100	1111	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	11 0 0	1111
J1-2	200	1101	1111	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	11 0 0	1100

N A M	L O C	N X T	A L U	C F A R S U I H X	P B S D S P P I W 1 3 P	S S S B M P M B 0 0 1 T	F R S S A T P P R P F 2	C A T K R N D T S	A B L R G G	B U T	
J2-1	212	0100	1110	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0	1 1 1 1
J2-1A	261	0100	1101	0101	1 0 1 1	1 0 1 1	1 1 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
J2-2	262	0111	0011	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	1 1 1 1	1 1 1 1	0 1 0 0
J2-3	214	0111	1001	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	0 1 0 1	1 1 0 0	1 1 1 1
J2-4	206	0111	0001	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	1 1 0 0	1 1 1 1
J2-5	216	0100	1100	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
J2-6	263	0100	1011	0101	1 0 1 1	1 0 0 1	1 0 0 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
J2-7	264	0100	1010	0000	1 0 1 1	1 0 1 1	1 1 1 1	1 1 1 0	1 1 1 1	1 1 1 1	1 1 1 1
J2-8	265	1101	1111	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 0 0
LC-1	042	0101	1010	0000	1 0 1 1	1 0 1 1	1 1 1 1	1 1 1 0	1 1 1 1	1 0 1 1	1 1 0 1
NB-0	154	0101	1111	0000	1 0 1 0	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0	1 1 1 1
NB-1	240	1001	0101	1111	1 1 1 1	1 0 1 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 1	1 1 1 1
NB-2	152	1101	1111	0101	1 0 1 1	1 0 0 1	0 0 1 1	1 0 0 0	1 1 1 1	1 1 0 0	1 1 0 0
PF-1	043	0101	1010	0000	1 0 1 1	1 0 1 1	1 0 1 1	1 1 1 0	1 1 1 1	1 0 1 1	1 1 0 1
R1-1	005	0111	1110	0000	1 0 1 1	1 1 0 1	1 0 1 1	0 1 1 1	1 1 1 0	1 1 0 0	1 1 1 1
R1-2	221	0110	1101	0110	0 1 1 1	1 1 0 1	1 0 1 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
R1-3	222	0110	1100	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 1 1
R1-4	223	0110	1011	0000	1 0 1 1	1 0 0 1	0 0 1 1	1 1 1 0	1 1 1 1	1 1 1 1	1 1 1 1
R1-5	224	0110	1010	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	0 1 1 1	1 1 0 0	1 1 1 1
R1-6	225	0010	0101	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	1 0 1 1	1 1 1 1
R2-1	227	0110	0111	0000	1 0 1 1	1 1 0 1	1 0 1 1	0 1 1 1	1 1 1 0	1 1 0 0	1 1 1 1
R2-2	230	0110	0110	0110	0 1 1 1	1 1 0 1	1 0 1 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
R2-3	231	0110	0101	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	0 1 1 1	1 1 0 0	1 1 1 1
R2-4	232	0110	0011	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 1 1
R2-6	234	0110	0010	0000	1 0 1 1	1 1 0 1	1 0 1 1	0 1 1 1	1 1 1 0	1 1 0 0	1 1 1 1
R2-7	235	0110	0001	0110	0 1 1 1	1 1 0 1	1 0 1 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
R2-8	236	0110	0000	0101	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	0 1 1 1	1 1 0 0	1 1 1 1
R2-9	237	0011	1010	0000	1 0 1 1	0 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 0 0 0	1 1 1 1
RS-1	000	0101	1110	0000	1 0 1 1	1 0 1 1	1 0 1 1	0 1 1 0	1 1 1 0	1 0 0 0	1 1 0 1
RS-1A	241	0001	1000	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	0 1 1 1	1 1 0 0	1 1 1 1
RS-2	147	1100	0011	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 1 1
RS-3	074	0001	0110	0110	0 1 1 1	1 0 1 1	1 0 1 0	0 1 1 0	0 1 1 0	1 0 0 0	1 1 0 1
RS-4	351	0011	1010	0000	1 0 1 1	0 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0	1 1 1 1
RST-1	357	0011	1010	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	0 1 1 1	1 1 0 0	1 1 1 0
RT-1	001	0101	1010	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 1 1	1 1 1 1	1 0 1 1	1 1 0 1
SO-1	201	1111	1000	0000	1 0 1 1	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	1 1 1 1	0 0 1 1
SO-2	007	1111	1110	0101	1 0 1 1	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 0 0 1
S1-1	203	0101	1011	0000	1 0 1 1	1 0 0 1	1 0 0 1	0 1 1 0	0 0 1 0	1 1 0 0	1 1 1 1
S1-2	244	1111	1000	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	1 0 1 1	0 0 1 1
S2-1	205	0011	1110	0000	1 0 1 1	1 0 0 1	1 0 0 1	0 1 1 0	1 0 1 0	1 1 0 0	1 1 1 1

EQUIPMENT CORPORATION

N A M	L O C	N X T	A L U	C F A R S U I H X	P S S D S P P I W I 3 P	S B S B M P M B O O 1 T	R B S S A T P P R P P 2	C A T K R N D T S	A B L R G G	B U T	
82-2	301	1111	0011	0110	0 1 1 1	1 0 0 1	1 0 0 0	1 1 1 0	1 1 1 1	11 11	1111
82-3	014	0101	1011	0101	1 0 1 1	1 0 0 1	1 0 0 1	1 1 0 0	0 1 1 1	11 00	1111
83-1	207	1111	0001	0000	1 0 1 1	1 0 0 1	1 0 0 1	0 1 1 0	1 1 1 0	11 00	1111
83-2	016	1111	0000	0110	0 1 1 1	1 0 0 1	1 0 0 0	1 1 1 0	1 1 1 1	11 11	1111
83-3	017	1010	0011	0101	1 0 1 1	1 0 0 1	1 0 0 1	1 1 0 0	0 1 1 1	11 00	1111
83-4	134	0100	0011	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	10 11	1111
83-5	274	0101	1011	0101	1 0 1 1	1 0 0 1	1 0 1 1	0 1 1 0	0 0 1 0	11 00	1111
84-1	211	1111	0011	1001	0 0 1 1	1 0 0 1	1 0 0 0	0 1 1 0	1 0 1 0	11 11	0100
85-1	213	1111	0000	1001	0 0 1 1	1 0 0 1	1 0 0 0	0 1 1 0	1 1 1 0	11 11	0100
86-1	215	1110	1010	0000	1 0 1 1	1 1 0 1	1 1 1 1	0 1 1 1	1 1 1 0	11 00	1111
86-2	025	1110	1001	0110	0 1 1 1	1 1 0 1	1 1 1 0	1 1 1 1	1 1 1 1	11 11	1111
86-3	026	1110	1000	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	0 1 1 1	11 00	1111
86-4	027	1110	0111	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	10 11	1111
86-5	030	0101	1011	0110	0 0 1 1	1 0 0 1	1 0 0 1	0 1 1 0	0 0 1 0	11 00	1111
87-1	217	1110	0101	0000	1 0 1 1	1 1 0 1	1 1 1 1	0 1 1 1	1 1 1 0	11 00	1111
87-2	032	1110	0100	0110	0 1 1 1	1 1 0 1	1 1 1 0	1 1 1 1	1 1 1 1	11 11	1111
87-3	033	1110	0011	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	0 1 1 1	11 00	1111
87-4	034	1110	0010	0000	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	10 11	1111
87-5	035	1010	0011	0110	0 0 1 1	1 0 0 1	1 0 0 1	0 1 1 0	0 1 1 0	11 00	1111
881-1	166	1000	0101	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-2	172	1000	0100	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-3	173	1000	0011	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-4	174	1001	1011	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-5	144	1000	0001	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-6	176	1000	0000	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-7	177	1111	1001	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
881-8	008	1001	0010	1110	0 0 1 0	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-1	167	1111	0101	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-2	012	0110	1111	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-3	220	1110	1101	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-4	022	1110	1100	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-5	023	1110	1011	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-6	024	1110	0110	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-7	031	0010	0111	1110	0 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
882-8	130	1000	1100	1110	0 0 1 0	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 01	1111
88E-1	047	1111	1110	0101	1 0 1 1	1 0 1 1	1 0 1 1	1 0 0 0	1 1 1 1	11 00	1001
880-1	067	0001	1001	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
880-2	146	0010	1011	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
880-3	124	0001	1111	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
880-4	140	0000	1110	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111

EQUIPMENT CORPORATION


N A M	L O C	N X T	A L U	C F A R S U I N X	P S S D S P P I W I 3 P	S S S B N P M B 0 0 1 T	B B S S A T P P R P P 2	C P T K R N O T S	A B L R G G	B U T	
S80=5	361	1101	0111	0000	1 0 0 1	1 0 0	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
S80=6	050	1110	1111	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
S80=7	020	1101	0101	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
S80=8	052	1101	1000	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 10	1111
SC=1	116	1101	1111	0100	1 0 1 1	0 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	00 00	1100
T=1	021	0101	1010	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 0 1	1 1 1 1	10 11	1101
U1=1	152	1000	1101	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	11 00	1111
U2=1	383	1000	1100	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	11 00	1111
U3=1	154	1000	1011	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	11 00	1111
U4=1	155	1000	1010	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	11 00	1111
U5=1	173	1000	1100	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	11 00	1111
URTR	064	0101	1010	0000	1 0 1 1	1 1 1 1	1 0 1 1	1 1 0 1	1 1 1 1	10 11	1101
URTX	060	0101	1010	0000	1 0 1 1	1 0 0 1	1 1 1 1	1 1 1 0	1 1 1 1	10 11	1101
W=1	063	1101	1111	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	11 00	1100

EQUIPMENT CORPORATION

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

REV. NUMBER KDII-B-4 SIZE CODE KMP 2

REVISIONS	CHANGE NO.	REV.
	CHK	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KDII-B				
PARTS LIST				
DRN. <i>J. Madden</i>	DATE 4-21-72	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>		
CHK'D. <i>R. L. Kusick</i>	DATE 5-2-72			
ENG. <i>R. L. Kusick</i>	DATE 5-2-72			
PROJ. ENG. <i>R. L. Kusick</i>	DATE 5-2-72			
PROD. <i>R. W. Peterson</i>	DATE 5/2/72			
NEXT HIGHER ASSEMBLY		TITLE MICROPROGRAM CROSS REFERENCE LISTING (KDII-B)		
B-DD-KDII-B				
SCALE <i>H</i>		SIZE CODE KMP	NUMBER KDII-B-4	REV.
SHEET 1 OF 3		DIST.		

000	001	002	003	004	005	006	007
010 ERY-1	011 RT-1	012 000-2	013 ETC-2	014 ETC-3	015 RT-1	016 001-0	017 50-2
020 000-7	021 ET-1	022 000-4	023 000-0	024 000-3	025 000-1	026 000-1	027 000-3
030 00-5	031 002-7	032 000-2	033 000-0	034 000-4	035 000-5	036 ETC-5	037 000-4
040 00-1	041 M-1	042 LC-1	043 000-8	044 000-0	045 000-1	046 ERY1A	047 000-1
050 000-4	051 ET-7	052 000-0	053 000-0	054 000-0	055 000-0	056 000-0	057 000-1
060 UTX	061 000-4	062 000-0	063 000-1	064 000-0	065 000-0	066 000-0	067 000-1
070 00-3	071 000-4	072 000-3	073 000-0	074 000-0	075 000-0	076 000-0	077 000-3
080 00-1	081 000-1	082 000-0	083 000-0	084 000-0	085 000-1	086 000-1	087 000-1
090 000-1	091 000-1	092 000-0	093 000-0	094 000-0	095 000-0	096 000-1	097 000-1
100 000-1	101 000-1	102 000-0	103 000-0	104 000-0	105 000-1	106 000-1	107 000-1
110 000-1	111 000-1	112 000-0	113 000-0	114 000-0	115 000-1	116 000-1	117 000-1
120 000-0	121 000-0	122 000-0	123 000-0	124 000-0	125 000-0	126 000-0	127 000-0
130 00-7	131 000-0	132 000-0	133 000-0	134 000-0	135 000-0	136 000-0	137 000-0
140 00-15	141 000-16	142 000-17	143 000-18	144 000-18	145 000-18	146 000-18	147 000-18
150 000-0	151 000-1	152 000-2	153 000-2	154 000-2	155 000-2	156 000-2	157 000-2
160 000-0	161 000-0	162 000-3	163 000-3	164 000-3	165 000-3	166 000-3	167 000-3
170 000-0	171 000-0	172 000-2	173 000-2	174 000-2	175 000-2	176 000-2	177 000-2
200 01-2	201 000-1	202 000-0	203 000-0	204 000-0	205 000-0	206 000-0	207 000-0
210 01-3	211 000-1	212 000-1	213 000-1	214 000-1	215 000-1	216 000-1	217 000-1
220 002-3	221 000-1	222 000-1	223 000-1	224 000-1	225 000-1	226 000-1	227 000-1
230 002-0	231 000-3	232 000-4	233 000-0	234 000-0	235 000-0	236 000-0	237 000-0
240 000-1	241 000-1A	242 000-0	243 000-0	244 000-0	245 000-0	246 000-0	247 000-0
250 00-1	251 000-7	252 000-0	253 000-0	254 000-0	255 000-0	256 000-0	257 000-0
260 01-2	261 000-1A	262 000-1	263 000-1	264 000-1	265 000-1	266 000-1	267 000-1
270 00-1	271 000-0	272 000-3	273 000-3	274 000-3	275 000-3	276 000-3	277 000-3
300 00-5	301 000-2	302 000-2	303 000-2	304 000-2	305 000-2	306 000-2	307 000-2
310 00-5	311 000-1	312 000-1	313 000-1	314 000-1	315 000-1	316 000-1	317 000-1
320 00-4	321 000-3	322 000-2	323 000-2	324 000-2	325 000-2	326 000-2	327 000-2
330 000-4	331 000-2	332 000-0	333 000-0	334 000-0	335 000-0	336 000-0	337 000-0
340 000-4	341 000-3	342 000-11	343 000-11	344 000-11	345 000-11	346 000-11	347 000-11
350 000-2	351 000-4	352 000-1	353 000-1	354 000-1	355 000-1	356 000-1	357 000-1
360 000-0	361 000-5	362 000-0	363 000-0	364 000-0	365 000-0	366 000-0	367 000-0
370 000-0	371 000-2	372 000-8	373 000-8	374 000-8	375 000-8	376 000-8	377 000-8

415	000	001	002	003	004	005	006	007	008	009	010	011	012	013
001	010 ERY-1	011 RT-1	012 000-2	013 ETC-2	014 ETC-3	015 RT-1	016 001-0	017 50-2	018 001-2	019 000-8	020 000-1	021 000-5	022 000-4	023 000-0
002	020 000-7	021 ET-1	022 000-4	023 000-0	024 000-3	025 000-1	026 000-1	027 000-3	028 000-2	029 000-0	030 000-4	031 000-1	032 000-0	033 000-0
003	030 00-5	031 002-7	032 000-2	033 000-0	034 000-4	035 000-5	036 ETC-5	037 000-4	038 000-1	039 000-0	040 000-1	041 000-0	042 000-0	043 000-0
004	040 00-1	041 M-1	042 LC-1	043 000-8	044 000-0	045 000-1	046 ERY1A	047 000-1	048 000-0	049 000-0	050 000-0	051 000-0	052 000-0	053 000-0
005	050 000-4	051 ET-7	052 000-0	053 000-0	054 000-0	055 000-0	056 000-0	057 000-1	058 000-0	059 000-0	060 000-0	061 000-0	062 000-0	063 000-0
006	060 UTX	061 000-4	062 000-0	063 000-1	064 000-0	065 000-0	066 000-0	067 000-1	068 000-0	069 000-0	070 000-0	071 000-0	072 000-0	073 000-0
007	070 00-3	071 000-4	072 000-3	073 000-0	074 000-0	075 000-0	076 000-0	077 000-3	078 000-0	079 000-0	080 000-0	081 000-0	082 000-0	083 000-0
008	080 00-1	081 000-1	082 000-0	083 000-0	084 000-0	085 000-1	086 000-1	087 000-1	088 000-0	089 000-0	090 000-0	091 000-0	092 000-0	093 000-0
009	090 000-1	091 000-1	092 000-0	093 000-0	094 000-0	095 000-1	096 000-1	097 000-1	098 000-0	099 000-0	100 000-0	101 000-0	102 000-0	103 000-0
010	100 000-1	101 000-1	102 000-0	103 000-0	104 000-0	105 000-1	106 000-1	107 000-1	108 000-0	109 000-0	110 000-0	111 000-0	112 000-0	113 000-0
011	110 000-1	111 000-1	112 000-0	113 000-0	114 000-0	115 000-1	116 000-1	117 000-1	118 000-0	119 000-0	120 000-0	121 000-0	122 000-0	123 000-0
012	120 000-0	121 000-0	122 000-0	123 000-0	124 000-0	125 000-0	126 000-0	127 000-0	128 000-0	129 000-0	130 000-0	131 000-0	132 000-0	133 000-0
013	130 00-7	131 000-0	132 000-0	133 000-0	134 000-0	135 000-0	136 000-0	137 000-0	138 000-0	139 000-0	140 000-0	141 000-0	142 000-0	143 000-0
014	140 00-15	141 000-16	142 000-17	143 000-18	144 000-18	145 000-18	146 000-18	147 000-18	148 000-18	149 000-18	150 000-18	151 000-18	152 000-18	153 000-18
015	150 000-0	151 000-1	152 000-2	153 000-2	154 000-2	155 000-2	156 000-2	157 000-2	158 000-2	159 000-2	160 000-2	161 000-2	162 000-2	163 000-2
016	160 000-0	161 000-0	162 000-3	163 000-3	164 000-3	165 000-3	166 000-3	167 000-3	168 000-3	169 000-3	170 000-3	171 000-3	172 000-3	173 000-3
017	170 000-0	171 000-0	172 000-2	173 000-2	174 000-2	175 000-2	176 000-2	177 000-2	178 000-2	179 000-2	180 000-2	181 000-2	182 000-2	183 000-2
018	200 01-2	201 000-1	202 000-0	203 000-0	204 000-0	205 000-0	206 000-0	207 000-0	208 000-0	209 000-0	210 000-0	211 000-0	212 000-0	213 000-0
019	210 01-3	211 000-1	212 000-1	213 000-1	214 000-1	215 000-1	216 000-1	217 000-1	218 000-1	219 000-1	220 000-1	221 000-1	222 000-1	223 000-1
020	220 002-3	221 000-1	222 000-1	223 000-1	224 000-1	225 000-1	226 000-1	227 000-1	228 000-1	229 000-1	230 000-1	231 000-1	232 000-1	233 000-1
021	230 002-0	231 000-3	232 000-4	233 000-0	234 000-0	235 000-0	236 000-0	237 000-0	238 000-0	239 000-0	240 000-0	241 000-0	242 000-0	243 000-0
022	240 000-1	241 000-1A	242 000-0	243 000-0	244 000-0	245 000-0	246 000-0	247 000-0	248 000-0	249 000-0	250 000-0	251 000-0	252 000-0	253 000-0
023	250 00-1	251 000-7	252 000-0	253 000-0	254 000-0	255 000-0	256 000-0	257 000-0	258 000-0	259 000-0	260 000-0	261 000-0	262 000-0	263 000-0
024	260 01-2	261 000-1A	262 000-1	263 000-1	264 000-1	265 000-1	266 000-1	267 000-1	268 000-1	269 000-1	270 000-1	271 000-1	272 000-1	273 000-1
025	270 00-1	271 000-0	272 000-3	273 000-3	274 000-3	275 000-3	276 000-3	277 000-3	278 000-3	279 000-3	280 000-3	281 000-3	282 000-3	283 000-3
026	300 00-5	301 000-2	302 000-2	303 000-2	304 000-2	305 000-2	306 000-2	307 000-2	308 000-2	309 000-2	310 000-2	311 000-2	312 000-2	313 000-2
027	310 00-5	311 000-1	312 000-1	313 000-1	314 000-1	315 000-1	316 000-1	317 000-1	318 000-1	319 000-1	320 000-1	321 000-1	322 000-1	323 000-1
028	320 00-4	321 000-3	322 000-2	323 000-2	324 000-2	325 000-2	326 000-2	327 000-2	328 000-2	329 000-2	330 000-2	331 000-2	332 000-2	333 000-2
029	330 000-4	331 000-2	332 000-0	333 000-0	334 000-0	335 000-0	336 000-0	337 000-0	338 000-0	339 000-0	340 000-0	341 000-0	342 000-0	343 000-0
030	340 000-4	341 000-3	342 000-11	343 000-11	344 000-11	345 000-11	346 000-11	347 000-11	348 000-11	349 000-11	350 000-11	351 000-11	352 000-11	353 000-11
031	350 000-2	351 000-4	352 000-1	353 000-1	354 000-1	355 000-1	356 000-1	357 000-1	358 000-1	359 000-1	360 000-1	361 000-1	362 000-1	363 000-1
032	360 000-0	361 000-5	362 000-0	363 000-0	364 000-0	365 000-0	366 000-0	367 000-0	368 000-0	369 000-0	370 000-0	371 000-0	372 000-0	373 000-0
033	370 000-0	371 000-2	372 000-8	373 000-8	374 000-8	375 000-8	376 000-8	377 000-8	378 000-8	379 000-8	380 000-8	381 000-8	382 000-8	383 000-8

PAGE REVISION CONTROL SHEET

SH NO	PAGE REVISIONS										REMARKS	
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												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												
61												
62												
63												
64												
65												
66												
67												
68												
69												
70												
71												
72												
73												
74												
75												
76												
77												
78												
79												
80												
81												
82												
83												
84												
85												
86												
87												
88												
89												
90												
91												
92												
93												
94												
95												
96												
97												
98												
99												
100												

FIRST USED ON OPTION/MODEL
K111-B



TITLE
DATA PATHS

DRN. <i>R. J.</i>	DATE <i>10-10-71</i>
CHK'D. <i>M. T. Williams</i>	DATE <i>10/24/72</i>
ENG. <i>M. T. Williams</i>	DATE <i>10/25/72</i>
PROJ. ENG. <i>M. T. Williams</i>	DATE
PROD.	DATE

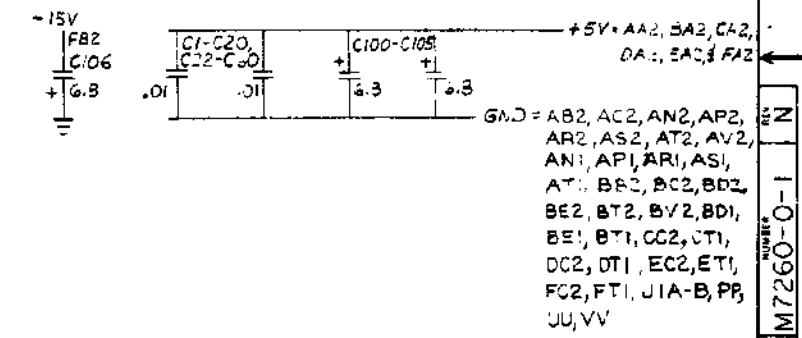
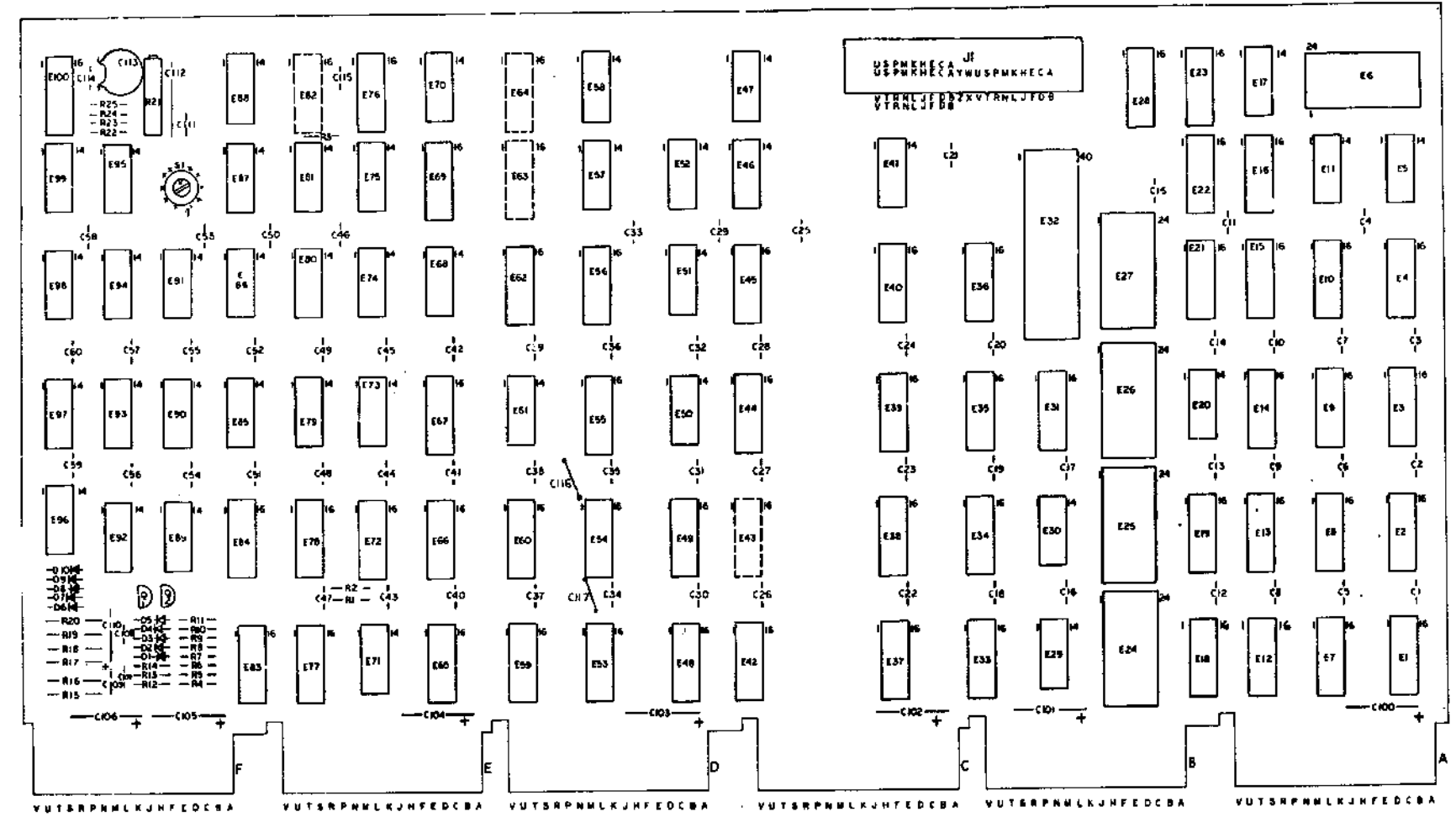
NEXT HIGHER ASSY.
B-DD-K111-B
SCALE *1:1*
SHEET *1* OF *12*

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
COPYRIGHT © DIGITAL EQUIPMENT CORPORATION

SIZE CODE B CS	NUMBER M7260-0-1	REV. P
DIST.		

The drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission.

NOTES:



DEC 74174	8	16
DEC 74175	8	16
DEC 74199	8	16
DEC 74008	3	1
DEC 74182	8	16
DEC 74181	12	24
DEC 74157	8	16
DEC 74158	8	16
DEC 74153	8	16
DEC 74194	8	16
DEC 74150	12	24
DEC 8838	8	16
IC TYPE	GND	+5V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION MODEL				
ETCH BOARD REV C				
PARTS LIST				
DRN: [Signature] DATE: 1/22/73 CHG: [Signature] DATE: 2/21/73 DRN: [Signature] DATE: 2/21/73 CHG: [Signature] DATE: 2/21/73 DRN: [Signature] DATE: 2/21/73 CHG: [Signature] DATE: 2/21/73				
NEXT HIGHER ASSY: B-DD-KD11-B				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	REV. NO.
SEMICONDUCTOR CONVERSION CHART				
SCALE: 2 OF			DST.:	

DCS M7260-0-1
 NUMBER
 SHEET 2 OF 2

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Digital Equipment Corporation.

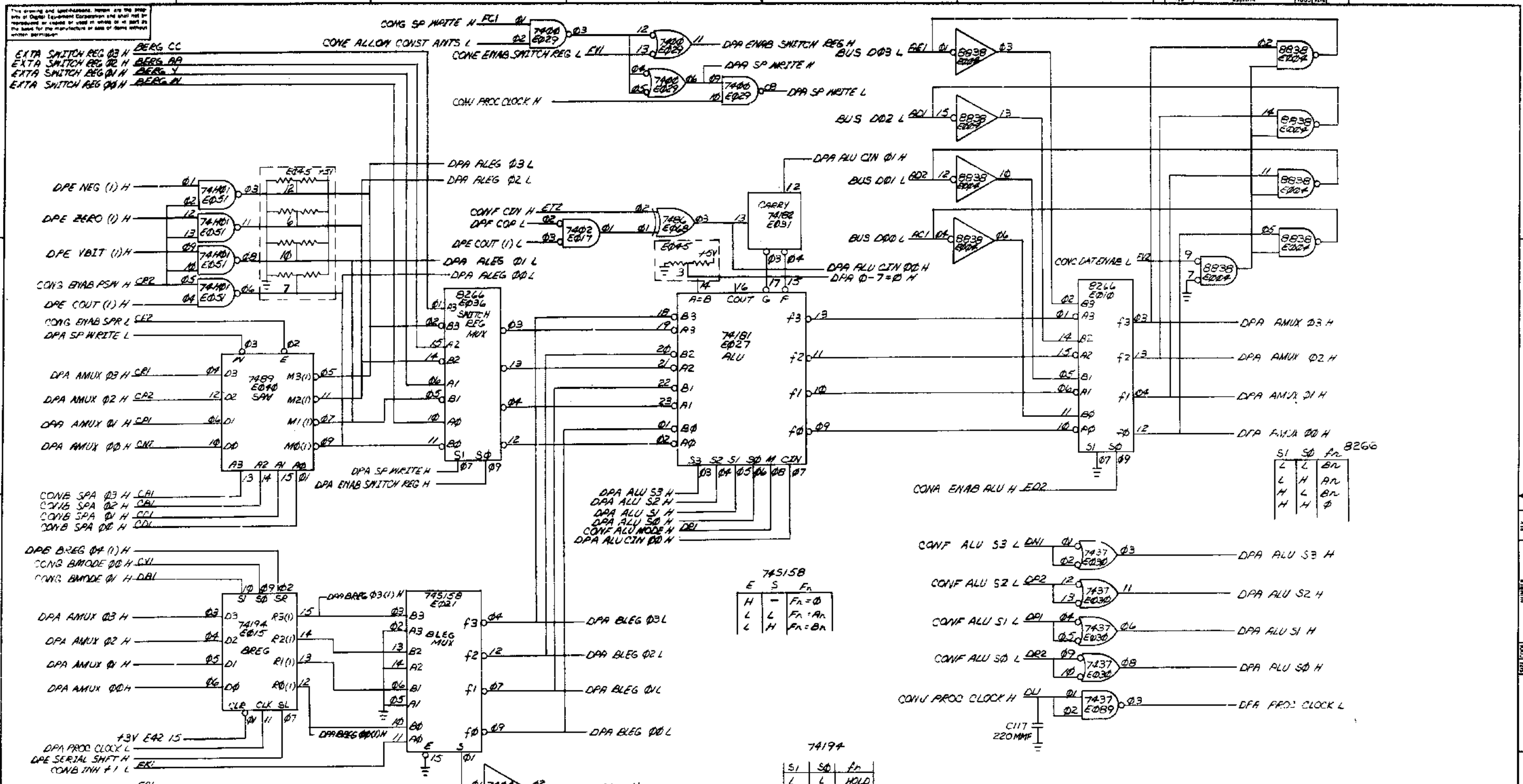
NOTES:

REF		ETCH CIRCUIT BOARD		1
REF		X-Y COORDINATE HOLE/LAYOUT	M7260-0-4	2
REF		DATA PATH ASSY HOLE/LAYOUT	M7260-0-5	3
REF		MODULE ECO HISTORY	M7260-0-6	4
63	C1-60,108,109,111	CAP .01 MFD, 100V, 20% DISC	1001810	5
1	C110	CAP .47 MFD, 35V, 10%	1005965	6
3	C107,114,116	CAP 1000.0 MMF, 100V 5%	1000042	7
1	C113	CAP 4700 MMF, 100V, 5%	1002895	8
1	C112	CAP .39 MFD, 10V 10%	1000076	9
7	C100-106	CAP 6.8 MFD, 35V, 10%	1005306	10
1	C115	CAP 120.0 MMF, 100V, 5%	1000018	11
10	D1-10	DIODE 0664	1100114	12
4	E1-4	IC DEC 9838	1911117	13
2	E5,11	IC DEC 7430	1905578	14
1	E6	IC DEC 74150	1910153	15
8	E7-10,33-36	IC DEC 9266	1909534	16
4	E12-15	IC DEC 74194	1910823	17
3	E16,22,28	IC DEC 74153	1909937	18
5	E17,75,79,85,91	IC DEC 7402	1909004	19
3	E18,19,21	IC DEC 74S158	1910549	20
7	E20,29,57,74,96,98,99	IC DEC 7400	1905575	21
2	E23,62	IC DEC 74157	1910655	22
4	E24-27	IC DEC 74181	1909982	23
2	E30,89	IC DEC 7437	1910091	24
1	E31	IC DEC 74182	1910019	25
1	E32	IC DEC 1808 UART	1910459	26
4	E37-40	IC DEC 7489	1910396	27
9	E41,46,50,51,70,71,73,80,81	IC DEC 74H01-1	1909849	28
4	E42,45,60,84	IC RES NETWORK	1311003-02	29
1	E47	IC DEC 7408	1910155	30
3	E48,55,58	IC DEC 74175	1910651	31
2	E49,67	IC DEC 74174	1910652	32
1	E44	IC ROM (CONSTANTS)	23A01A1	33
5	E52,86,80,93,97	IC DEC 7474	1905547	34
1	E53	IC ROM (DOP AUX)	23A02A1	35
1	E54	IC ROM (SOP AUX #1)	23A03A1	36
2	E56,87	IC DEC 7404	1909686	37
1	E59	IC ROM (DOP 1R)	23A05A1	38
1	E61	IC DEC 7410	1905576	39
1	E65	IC ROM (CC OR DP)	23A04A1	40
1	E66	IC ROM (SOP AUX #2)	23A06A1	41
1	E68	IC DEC 7486	1910011	42
1	E69	IC ROM (C + V - BIT)	23A12A1	43
1	E72	IC ROM (BRANCH)	23A03A2	44
2	E76,100	IC DEC: 9602	1910951	45
1	E77	IC ROM (END UNARY)	23A10A1	46
1	E78	IC ROM (NOT DOP)	23A08A1	47
1	E83	IC ROM (DOP BYTE EQ 0)	23A11A1	48
2	E88,95	IC DEC 74197	1910035	49
1	E92	IC DEC 7413	1909989	50
1	E94	IC DEC 7473	1905587	51

1	J1	CONNECTOR, BERG	1209941	52
1	R5	RES 1.5K 1/4W 5%	1300391	53
2	R13,14	RES 470 1/4W 5%	1300316	54
2	R19,20	RES 12K 1/2W 5%	1300487	55
2	R15,16	RES 1.5K 1/2W 5%	1300394	56
1	R22	RES 10 1/4W 5%	1301317	57
2	R3,25	RES 30K 1/4W 5%	1302394	58
1	R10	RES 150 1/4W 5%	1300250	59
1	R17	RES 88 1/2W 10%	1300226	60
1	R2	RES 2K 1/4W 5%	1302388	61
1	R21	RES 20K 3/4W 10% POT	1309143-11	62
8	R1,6,9,23	RES 1K 1/4W 5%	1300365	63
1	R4	RES 750 1/4W 5%	1301401	64
1	R12	RES 82 1/4W 5%	1301477	65
1	R18	RES 560 1/2W 5%	1300338	66
2	R11,24	RES 10K 1/4W 5%	1300479	67
2	Q1,2	TRANS DEC 65340 PNP	1503409	68
12		EYELETS	9006732	69
1		MODULE HANDLE	1210711-2	70
1	S1	SWITCH,ROT 1 POLE 10 POSITION DRY	1210042-1	71
1		HEX NUT NYLON	9007992	72
1	C117	CAP 120MMF 100V 5%	1000021	73

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION MODEL				
11/05				
PARTS LIST				
ETCH BOARD REV		C		
DATE	CHK'D	DATE	CHK'D	DATE
11/05	[Signature]	11/05	[Signature]	11/05
EQUIPMENT CORPORATION MAINE, MASSACHUSETTS DATA PATHS				
DATE	CHK'D	DATE	CHK'D	DATE
11/05	[Signature]	11/05	[Signature]	11/05
NEXT HIGHER ASSY				
B-DD-KD11-B				
SCALE	SIZE/SCALE			NUMBER
3	D/C S			M7260-0-1
SHEET	REV.			N

DE 9602	B	6
FOR 23AXXA1	8	6
FOR 23AXXA2	8	16
DEC 7473	4	
DEC 9602	3	6
IC TYPE	GND	+ 5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		



74515B

E	S	F _n
H	-	F _n = 0
L	L	F _n = A _n
L	H	F _n = B _n

74194

S ₁	S ₀	F _n
L	L	HOLD
L	H	SR
H	L	SL
H	H	LOAD

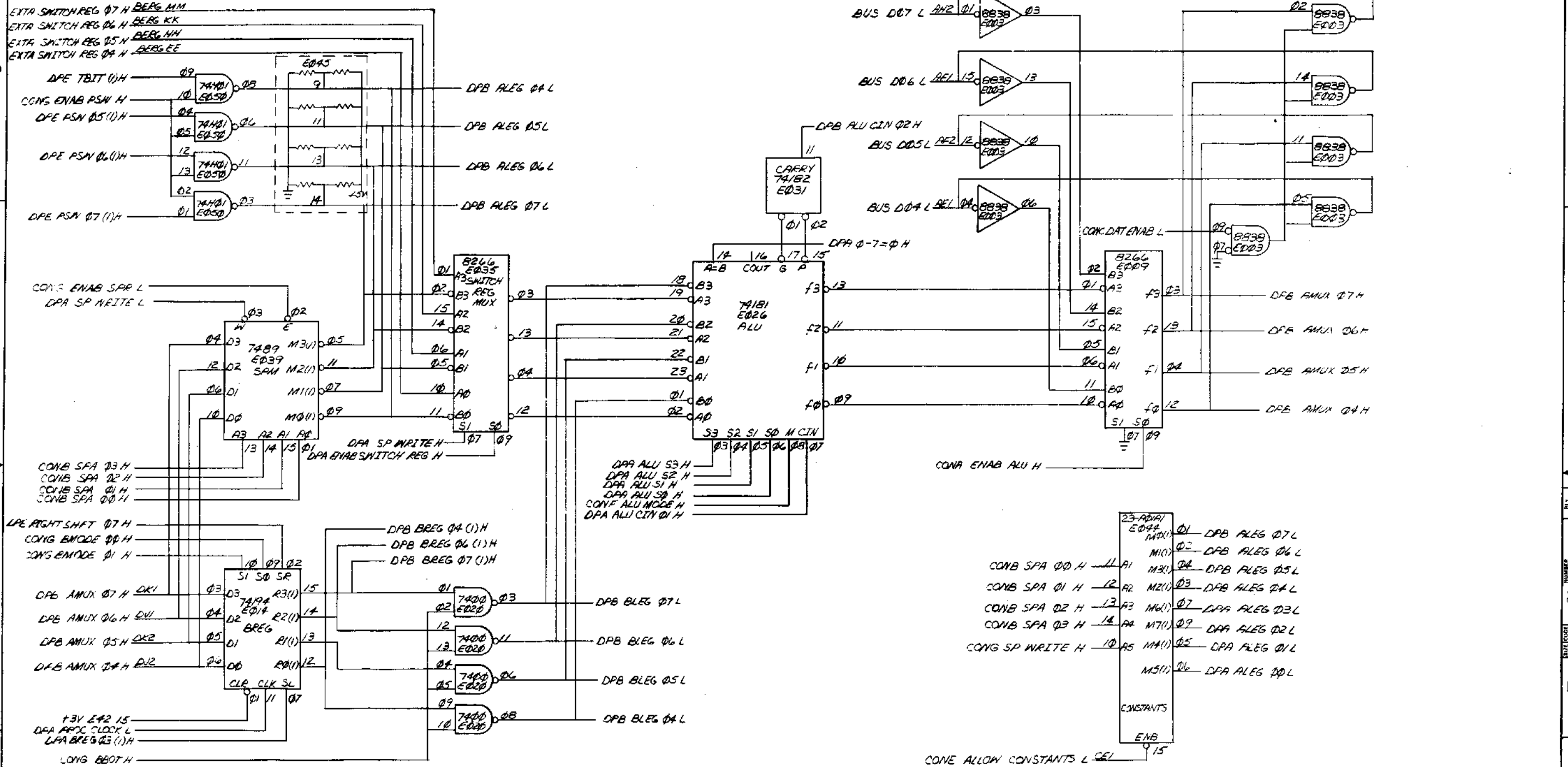
DATA PATH <G3:00>

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN: <i>M. Ruick</i>	DATE: 12/27/72	<p>digital EQUIPMENT CORPORATION MILFORD, MASSACHUSETTS</p>
DECIMALS	ANGLES	CHKD: <i>[Signature]</i>	DATE: 12/27/72	
.XXX - .005	10° 30'	APP: <i>[Signature]</i>	DATE: 12/27/72	
.XX - .02		PRD: <i>[Signature]</i>	DATE: 12/27/72	
TITLE: DATA PATH (DPA)				
MATERIAL: <i>[Symbol]</i>		NEXT HIGHER ASSY: B-DD-K011-B		SIZE CODE: DCS
FINISH: <i>[Symbol]</i>		SCALE: <i>[Symbol]</i>		NUMBER: M7260-0-1
SHEET: 4 OF		DIST:		REV: N

WORKING AS SEE FIGURE
 REVISIONS
 CHANGE NO.

PART NO. DCS M7260-0-1
 SHEET 4 OF 4

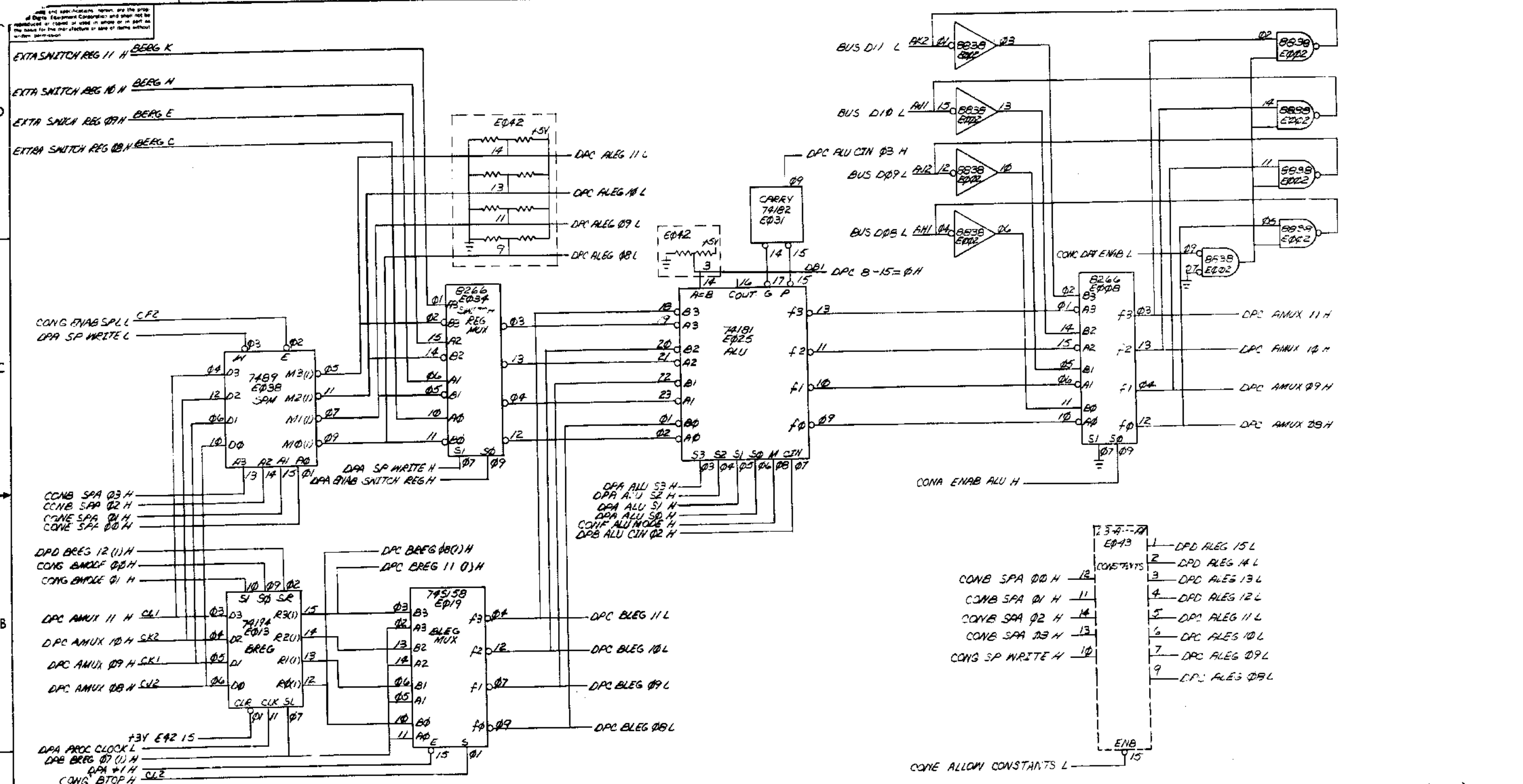
1. All drawings and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part or the basis for the manufacture or sale of items without written permission.



- 23-AD41 E044 MUX 01 DPB ALEG 07L
 - M10 02 DPB ALEG 06L
 - M11 03 DPB ALEG 05L
 - M21 04 DPB ALEG 04L
 - M31 05 DPB ALEG 03L
 - M41 06 DPB ALEG 02L
 - M71 07 DPB ALEG 01L
 - M81 08 DPB ALEG 00L
 - M51 09 DPB ALEG 00L
 - CONSTANTS
 - ENB
 - 015
- CONB SPA 00 H 11 A1
 CONB SPA 01 H 12 A2
 CONB SPA 02 H 13 A3
 CONB SPA 03 H 14 A4
 CONG SP WRITE H 10 A5
 M51 06 DPA ALEG 00L

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN J.M. Rice	DATE 12/1/77		
DECIMALS .XXX ± .006 ANGLES ± 0° 30'	CHKD S.M. Rice	DATE 2/23/78		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	ENG. S.M. Rice	DATE 2/23/78	TITLE DATA PATHS (DPB)	
MATERIAL	DATE 2/23/78			
FINISH	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
	B-DD-KD11-B	DCSM7260-0-1		M
	SCALE	SHEET 5 OF	DIST.	

REVISION: CHANGE NO. DATE
 1
 2
 3
 4
 5
 6
 7
 8



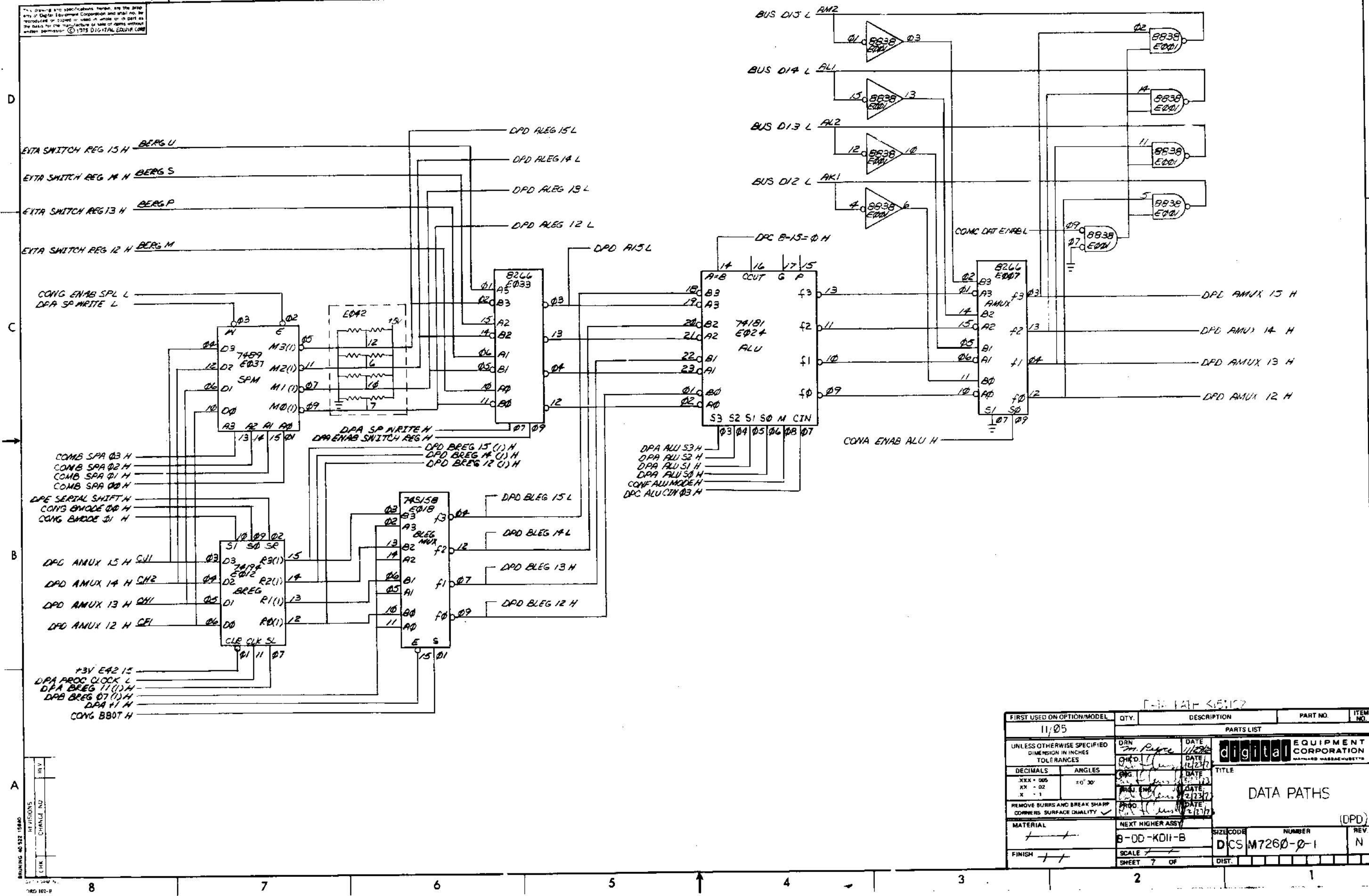
- CONSTANTS
- 1 - DPC ALEG 15 L
 - 2 - DPC ALEG 14 L
 - 3 - DPC ALEG 13 L
 - 4 - DPC ALEG 12 L
 - 5 - DPC ALEG 11 L
 - 6 - DPC ALEG 10 L
 - 7 - DPC ALEG 09 L
 - 9 - DPC ALEG 08 L
- CONB SPA 00 H 12
- CONB SPA 01 H 11
- CONB SPA 02 H 14
- CONB SPA 03 H 13
- CONG SP WRITE H 10
- CONE ALLOW CONSTANTS L 15

DATA PATH <11:08>

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN: M. Rowe	DATE: 12/27/72	 EQUIPMENT CORPORATION WATFORD, MASSACHUSETTS
DECIMALS	ANGLES	CHK: [Signature]	DATE: 2/24/73	
XXX - 005	±0' 30"	ENG: [Signature]	DATE: 2/23/73	TITLE <h3 style="text-align: center;">DATA PATHS</h3> (DPC)
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PRD. ENG: [Signature]	DATE: 2/23/73	
MATERIAL	NEXT HIGHER ASSY:	PROD. [Signature]	DATE: 2/23/73	
FINISH	B-0D-KD11-B			SIZE CODE: DCS M7260-0-1
	SCALE			NUMBER: 6
	SHEET 6 OF			REV. M

DRAWING NO 822 15840
 REVISIONS
 LIBRARY NO
 CHK
 DATE

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part as the basis for the manufacture of items without written permission. © 1975 DIGITAL EQUIPMENT CORPORATION



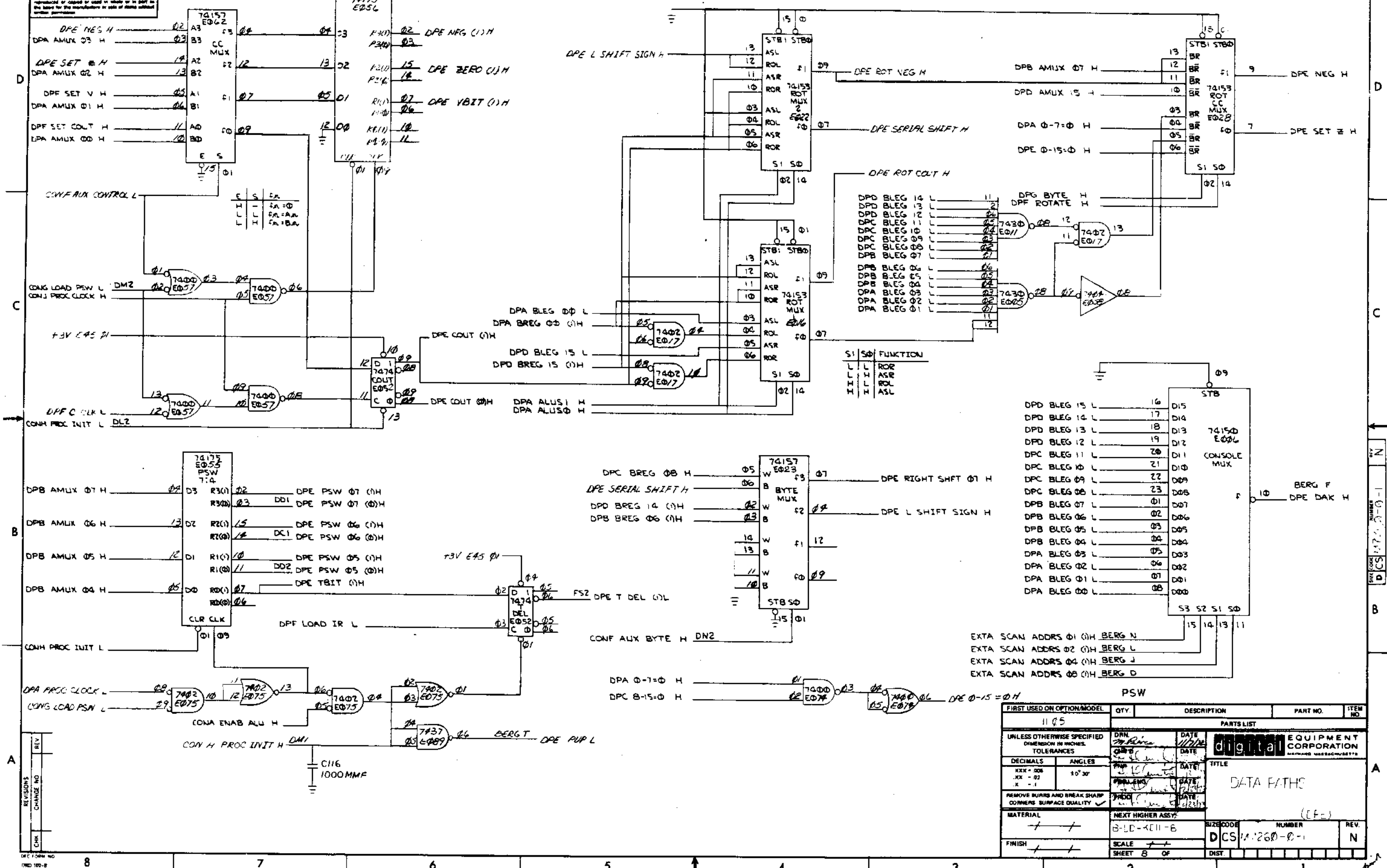
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN <i>Tom Ruffe</i> DATE 11/05/75	 digital EQUIPMENT CORPORATION <small>NATUARD HARBORUMETTS</small>	
DECIMALS	ANGLES	CHKD <i>[Signature]</i> DATE 12/23/77		
.XXX + .005	± 0° 30'	ENGR <i>[Signature]</i> DATE 12/23/77	DATA PATHS (DPD)	
.XX - .02		PROD <i>[Signature]</i> DATE 12/23/77		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 12/23/77		
MATERIAL	NEXT HIGHER ASSY	DATE 12/23/77		
FINISH	SCALE	DATE 12/23/77	SIZE CODE	NUMBER
	7 OF		DCS M7260-0-1	REV N

REVISIONS

NO.	DATE	BY	DESCRIPTION
1			

SIZE CODE NUMBER
 DCS M7260-0-1

This drawing and specification herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part in any form without the written permission of Digital Equipment Corporation.



FUNCTION

L	L	ROR
L	L	ASR
L	L	ROL
L	L	ASL

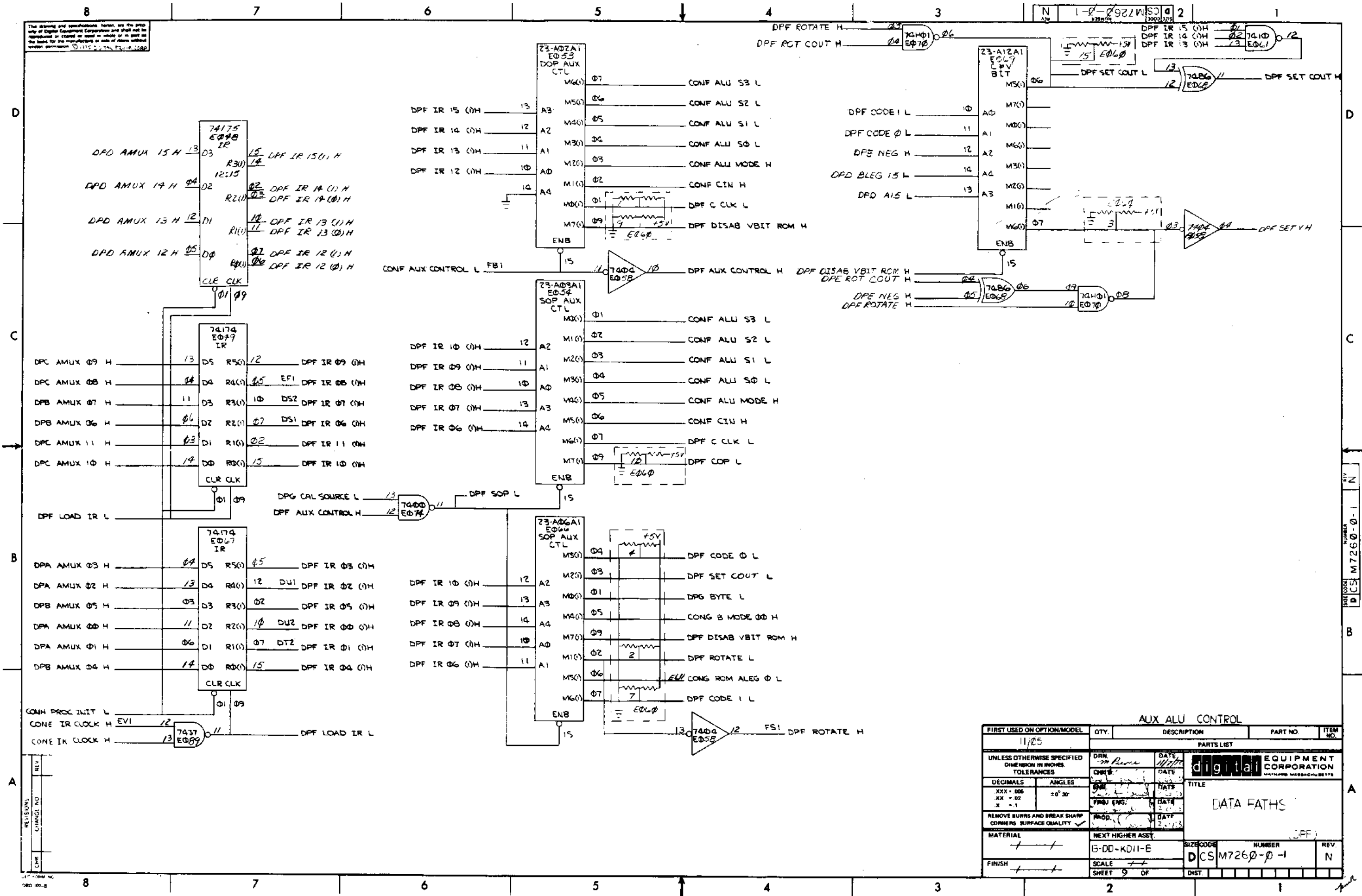
DPD BLEG 15 L	16	D15
DPD BLEG 14 L	17	D14
DPD BLEG 13 L	18	D13
DPD BLEG 12 L	19	D12
DPC BLEG 11 L	20	D11
DPC BLEG 10 L	21	D10
DPC BLEG 09 L	22	D09
DPC BLEG 08 L	23	D08
DPB BLEG 07 L	01	D07
DPB BLEG 06 L	02	D06
DPB BLEG 05 L	03	D05
DPB BLEG 04 L	04	D04
DPA BLEG 03 L	05	D03
DPA BLEG 02 L	06	D02
DPA BLEG 01 L	07	D01
DPA BLEG 00 L	08	D00

EXTRA SCAN ADDRS 01 (1)H BERG N
 EXTRA SCAN ADDRS 02 (1)H BERG L
 EXTRA SCAN ADDRS 04 (1)H BERG J
 EXTRA SCAN ADDRS 08 (1)H BERG D

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11 05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN	DATE	DIGITAL EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	MAYNARD MASSACHUSETTS	
.XX - .00	10' 30"	DATE	TITLE	
.XX - .02		DATE	DATA PATHS	
.X - .1		DATE	(E-F-)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY:			
FINISH	B-LD-K11-B	SIZE CODE	NUMBER	REV.
	SCALE	DCS 11-260-0-1		N
	SHEET 8 OF	DIST		

REV	
CHG	
NO	
DATE	

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced in whole or in part or in any form without written permission of Digital Equipment Corporation.

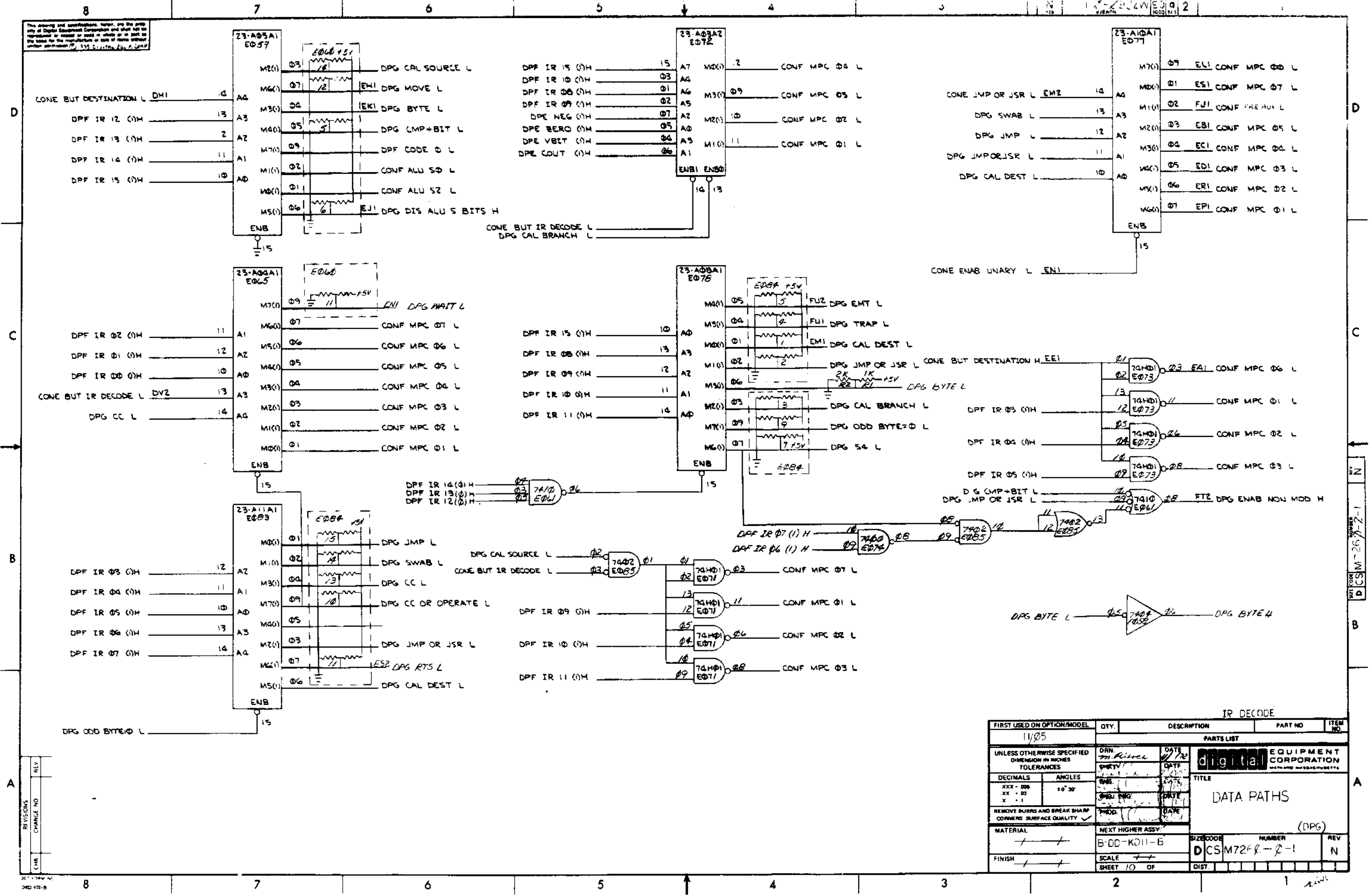


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/25				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>m Rouse</i>	DATE 11/77	digital EQUIPMENT CORPORATION MAYFORD MASSACHUSETTS	
DECIMALS	CHKD	DATE		
ANGLES	ENG	DATE	TITLE DATA PATHS	
XXX - .006 XX - .02 X - .1	PRD	DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	APD	DATE	MATERIAL NEXT HIGHER ASST. FINISH	
		B-DD-KD11-E	SIZE CODE DCS M7260-0-1	NUMBER N
		SCALE	REV.	
		SHEET 9 OF	DST	

REVISIONS	NO.	DATE	BY

REV. N
 PART NO. DCS M7260-0-1

This drawing and specification herein are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture or sale of items without written permission of Digital Equipment Corporation.

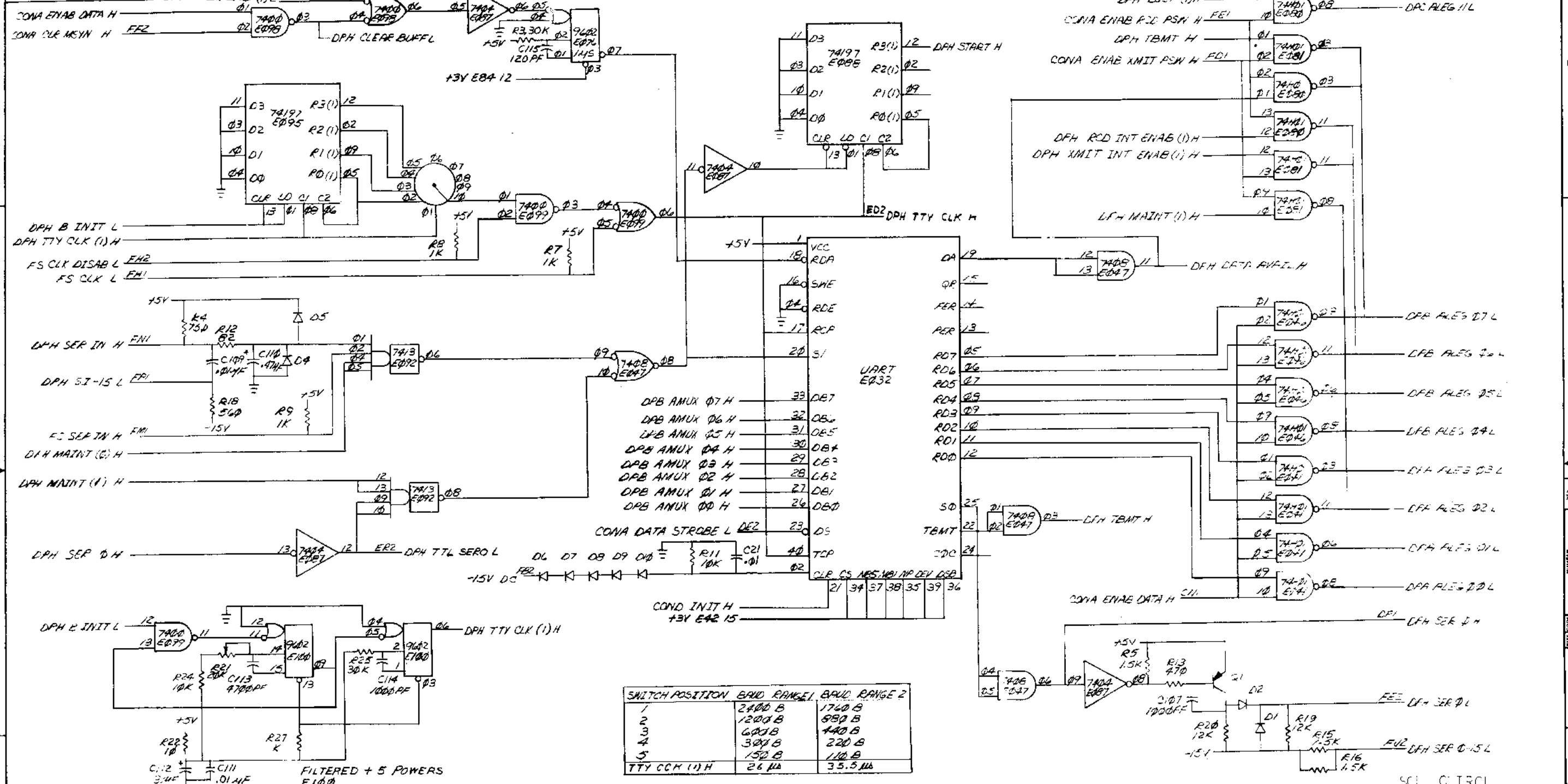


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. <i>M. Rivera</i>	DATE <i>11/72</i>	digital EQUIPMENT CORPORATION METHUEN, MASSACHUSETTS	
DECIMALS	ANGLES	TITLE		
XXX - 006	± 0° 30'	DATA PATHS		
XX - 02		(DPG)		
X - 1				
REMOVE BURRS AND BREAK SHARP CORNERS. SURFACE QUALITY ✓	MOD. <i>[Signature]</i>	DATE	REV N	
MATERIAL	NEXT HIGHER ASSY:	SIZE CODE	NUMBER	REV
FINISH	B-DD-K011-B	D	CSM7248-2-1	N
	SCALE	SHEET	10 OF	

REVISIONS
CHANGE NO. REV.

REV. NO. 257-2-1

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



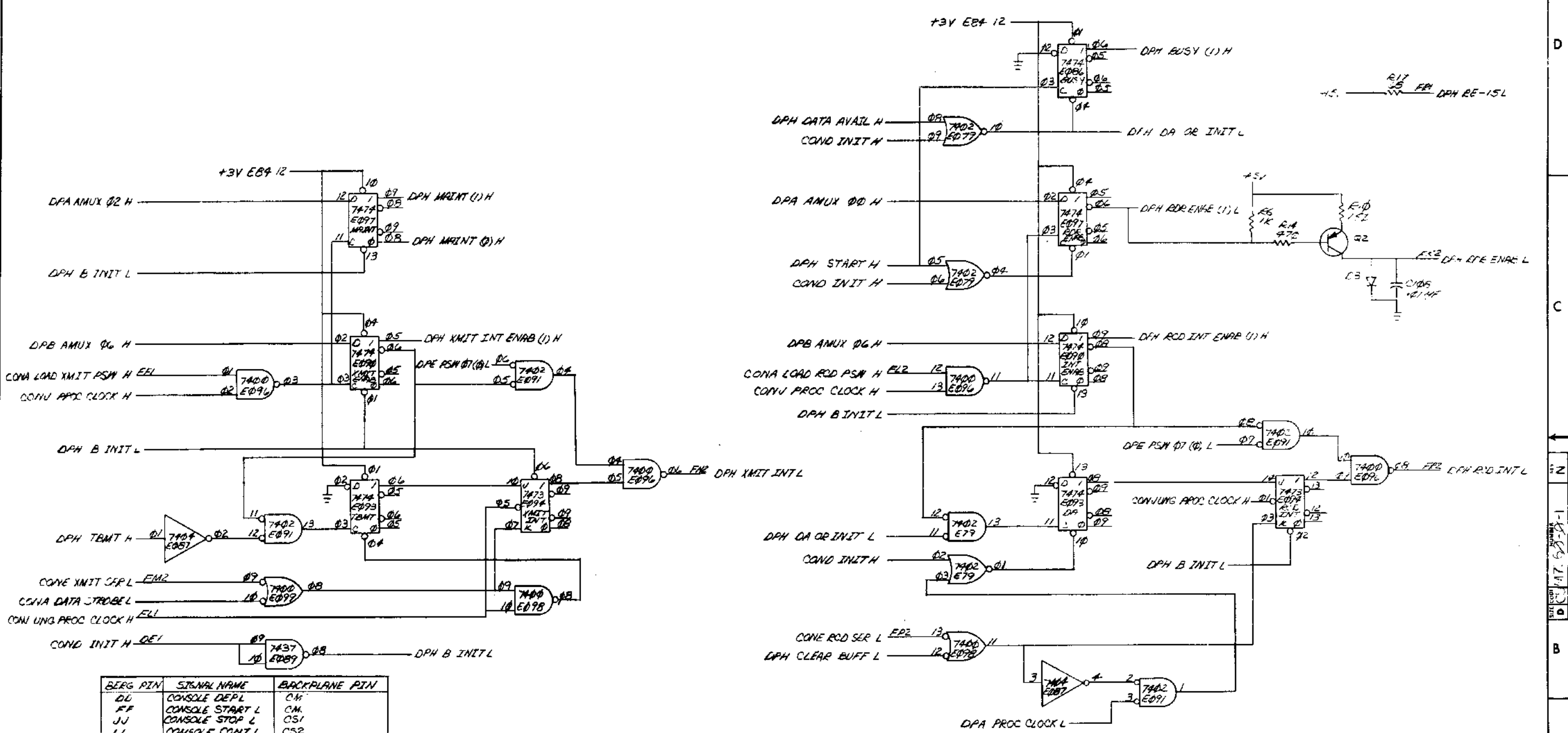
SWITCH POSITION	BAUD RANGE 1	BAUD RANGE 2
1	2400 B	1740 B
2	1200 B	880 B
3	600 B	440 B
4	300 B	220 B
5	150 B	110 B
TTY CLK (1) H	26 μ A	35.5 μ A

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
1105				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
XXX.XXX	"0'30"	digital EQUIPMENT CORPORATION MASSACHUSETTS		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SCALE		SIZE CODE		NUMBER
SHEET 11 OF		DCS M7260-0-1		REV. M
TITLE DATA PATH (DPH)				

REVISIONS
DATE
BY
CHANGE NO.

SHEET NO. 11 OF 11
PART NO. M7260-0-1

This drawing and specifications remain the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part for the manufacture or sale of parts without written permission of DECS Digital Equipment Corp.



BERG PIN	SIGNAL NAME	BACKPLANE PIN
DL	CONSOLE DEPL	CM
FF	CONSOLE START L	CM
JJ	CONSOLE STOP L	CS1
LL	CONSOLE CONT L	CS2
NN	CONSOLE EXAM L	CTR
RR	CONSOLE LOAD L	CUR
TT	COMB RUN LAMP L	CUI

FIRST USED OR OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.																												
11C		PARTS LIST																														
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		<table border="1"> <tr> <td>DRN</td> <td>DATE</td> <td rowspan="4"> </td> </tr> <tr> <td>CHKD</td> <td>DATE</td> </tr> <tr> <td>ENG</td> <td>DATE</td> </tr> <tr> <td>PRJ</td> <td>DATE</td> </tr> <tr> <td>PROD</td> <td>DATE</td> <td></td> </tr> <tr> <td colspan="2">REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY</td> <td></td> <td></td> </tr> <tr> <td>MATERIAL</td> <td>NEXT HIGHER ASSY</td> <td colspan="2">TITLE</td> </tr> <tr> <td>FINISH</td> <td>SCALE</td> <td>SIZE CODE</td> <td>NUMBER</td> </tr> <tr> <td></td> <td>SHEET 12 OF</td> <td>DIST</td> <td>REV.</td> </tr> </table>			DRN	DATE		CHKD	DATE	ENG	DATE	PRJ	DATE	PROD	DATE		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				MATERIAL	NEXT HIGHER ASSY	TITLE		FINISH	SCALE	SIZE CODE	NUMBER		SHEET 12 OF	DIST	REV.
DRN	DATE																															
CHKD	DATE																															
ENG	DATE																															
PRJ	DATE																															
PROD	DATE																															
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY																																
MATERIAL	NEXT HIGHER ASSY	TITLE																														
FINISH	SCALE	SIZE CODE	NUMBER																													
	SHEET 12 OF	DIST	REV.																													
		DATA PATH (DPH1)																														
		DCS M7250-2-1																														

REVISIONS
CHANGE NO.
LINK


STATE
DATE
NO.

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

THIS FACE SHEET CONTAINS THE FOLLOWING CHIP PART NUMBERS

PART NUMBER

- 23-AB1A1
- 23-AB2A1
- 23-AB3A1
- 23-AB4A1
- 23-AB5A1
- 23-AB6A1
- 23-AB8A1
- 23-A1BA1
- 23-A11A1
- 23-A12A1
- 23-AB3A2

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KDII-B				
PARTS LIST				
DRM. <i>C. Techner</i>	DATE 5-8-72	<div style="text-align: center;">  <p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p> </div>		
CHK'D. <i>M. Tibbels</i>	DATE 5-15-72			
ENG. <i>M. Tibbels</i>	DATE 5-15-72			
PRCJ. ENG. <i>M. Tibbels</i>	DATE 5-15-72			
PROD. <i>R.K. Peterson</i>	DATE 5/16/72			
NEXT HIGHER ASSEMBLY B-DD-KDII-B		TITLE DATA PATH ROM PATTERNS		
SCALE ---				
SHEET 1	OF 15	SIZE CODE K RL	NUMBER M7260-0-8	REV.
DIST.				

REVISIONS	REV.
CHANGE NO.	
CHK	


```

*+*+* OCTAL
*/1 0Y4 (PIN # 9) CONF MPC #3 L
*/1 0Y3 (PIN #10) CONF MPC #2 L
*/1 0Y2 (PIN #11) CONF MPC #1 L
*+*+*
*/1 0Y1 (PIN #12) CONF MPC #4 L
*+*+*

```

OCTAL ADDRESS	HEXLCDBA
000	00000000
001	00000000
002	00000001
003	00000010
004	00000011
005	00000100
006	00000101
007	00000110
008	00000111
009	00001000
010	00001001
011	00001010
012	00001011
013	00001100
014	00001101
015	00001110
016	00001111
017	00010000
018	00010001
019	00010010
020	00010011
021	00010100
022	00010101
023	00010110
024	00010111
025	00011000
026	00011001
027	00011010
028	00011011
029	00011100
030	00011101
031	00011110
032	00011111
033	00011111
034	00011111
035	00011111
036	00011111
037	00011111

OCTAL ADDRESS	DATA
000	1111
001	1111
002	1111
003	1111
004	1111
005	1111
006	1111
007	1111
008	1111
009	1111
010	1111
011	1111
012	1111
013	1111
014	1111
015	1111
016	1111
017	1111
018	1111
019	1111
020	1111
021	1111
022	1111
023	1111
024	1111
025	1111
026	1111
027	1111
028	1101
029	1101
030	1101
031	1101
032	1101
033	1101
034	1101
035	1101
036	1101
037	1101

NOT ACCESSED

0GE

OCTAL ADDRESS	DATA
040	00100000
041	00100001
042	00100010
043	00100011
044	00100100
045	00100101
046	00100110
047	00100111
050	00101000
051	00101001
052	00101010
053	00101011
054	00101100
055	00101101
056	00101110
057	00101111
060	00110000
061	00110001
062	00110010
063	00110011
064	00110100
065	00110101
066	00110110
067	00110111
070	00111000
071	00111001
072	00111010
073	00111011
074	00111100
075	00111101
076	00111110
077	00111111
000	00000000
001	00000001
002	00000010
003	00000011
004	00000100
005	00000101
006	00000110
007	00000111
008	00001000
009	00001001
010	00001010
011	00001011
012	00001100
013	00001101
014	00001110
015	00001111
016	00010000
017	00010001
018	00010010
019	00010011
020	00010100
021	00010101
022	00010110
023	00010111
024	00011000
025	00011001
026	00011010
027	00011011
028	00011100
029	00011101
030	00011110
031	00011111
032	00011111
033	00011111
034	00011111
035	00011111
036	00011111
037	00011111

BNE

BGT

```

*+*+* A(PIN #05) IS DPE CC ZERO (1)H
*+*+* B(PIN #06) IS DPE CC COUT (1)H
*+*+* C(PIN #07) IS DPE CC NEG (1)H
*+*+* D(PIN #04) IS DPE CC VBIT (1)H
*+*+* E(PIN #03) IS DPF IR 10 (1)H
*+*+* F(PIN #02) IS DPF IR 09 (1)H
*+*+* G(PIN #01) IS DPF IR 08 (1)H
*/1 H(PIN #15) IS DPF IR 15 (1)H

```

```

0001          01000000  44  HGFCD0BA
0002          01000001  45  01000000
0003          01000010  46  01000001
0004          01000011  47  01000010
0005          01000100  48  01000100
0006          01000110  49  01000110
0007          01000111  50  01000111
0008          01010000  51  01010000
0009          01010001  52  01010001
0010          01010010  53  01010010
0011          01010011  54  01010011
0012          01010100  55  01010100
0013          01010101  56  01010101
0014          01010110  57  01010110
0015          01010111  58  01010111
0016          01011000  59  01011000
0017          01011001  60  01011001
0018          01011010  61  01011010
0019          01011011  62  01011011
0020          01011100  63  01011100
0021          01011101  64  01011101
0022          01011110  65  01011110
0023          01011111  66  01011111
0024          01100000  67  01100000
0025          01100001  68  01100001
0026          01100010  69  01100010
0027          01100011  70  01100011
0028          01100100  71  01100100
0029          01100101  72  01100101
0030          01100110  73  01100110
0031          01100111  74  01100111
0032          01101000  75  01101000
0033          01101001  76  01101001
0034          01101010  77  01101010
0035          01101011  78  01101011
0036          01101100  79  01101100
0037          01101101  80  01101101
0038          01101110  81  01101110
0039          01101111  82  01101111
0040          01110000  83  01110000
0041          01110001  84  01110001
0042          01110010  85  01110010
0043          01110011  86  01110011
0044          01110100  87  01110100
0045          01110101  88  01110101
0046          01110110  89  01110110
0047          01110111  90  01110111
0048          01111000  91  01111000
0049          01111001  92  01111001
0050          01111010  93  01111010
0051          01111011  94  01111011
0052          01111100  95  01111100
0053          01111101  96  01111101
0054          01111110  97  01111110
0055          01111111  98  01111111

```

BR (ALWAYS)

PLT

```

140          01100000  99  01100000
141          01100001  97  01100001
142          01100010  98  01100010
143          01100011  99  01100011
144          01100100  99  01100100
145          01100101  99  01100101
146          01100110  99  01100110
147          01100111  99  01100111
148          01101000  99  01101000
149          01101001  99  01101001
150          01101010  99  01101010
151          01101011  99  01101011
152          01101100  99  01101100
153          01101101  99  01101101
154          01101110  99  01101110
155          01101111  99  01101111
156          01110000  99  01110000
157          01110001  99  01110001
158          01110010  99  01110010
159          01110011  99  01110011
160          01110100  99  01110100
161          01110101  99  01110101
162          01110110  99  01110110
163          01110111  99  01110111
164          01111000  99  01111000
165          01111001  99  01111001
166          01111010  99  01111010
167          01111011  99  01111011
168          01111100  99  01111100
169          01111101  99  01111101
170          01111110  99  01111110
171          01111111  99  01111111
172          01111111  99  01111111
173          01111111  99  01111111
174          01111111  99  01111111
175          01111111  99  01111111
176          01111111  99  01111111
177          01111111  99  01111111

```

023

 BLE

```

/ / 114 (PIN # 9) CONF MPC B3 L
/ / 115 (PIN #10) CONF MPC B2 L
/ / 116 (PIN #11) CONF MPC B1 L
/ / 117 (PIN #12) CONF MPC B4 L

```

```

OCTAL ADDRESS      DECIMAL ADDRESS      HEXEDCBA
200 129 10000000
201 130 10000001
202 131 10000010
203 132 10000011
204 133 10000100
205 134 10000101
206 135 10000110
207 136 10000111
210 139 10001000
211 140 10001001
212 141 10001010
213 142 10001011
214 143 10001100
215 144 10001101
216 145 10001110
217 146 10001111
220 149 10010000
221 150 10010001
222 151 10010010
223 152 10010011
224 153 10010100
225 154 10010101
226 155 10010110
227 156 10010111
230 159 10011000
231 160 10011001
232 161 10011010
233 162 10011011
234 163 10011100
235 164 10011101
236 165 10011110
237 166 10011111

```

```

BPL *****
BVC *****

```

```

240 003 10100000
241 004 10100001
242 005 10100010
243 006 10100011
244 007 10100100
245 008 10100101
246 009 10100110
247 010 10100111
250 013 10101000
251 014 10101001
252 015 10101010
253 016 10101011
254 017 10101100
255 018 10101101
256 019 10101110
257 020 10101111
260 023 10110000
261 024 10110001
262 025 10110010
263 026 10110011
264 027 10110100
265 028 10110101
266 029 10110110
267 030 10110111
270 033 10111000
271 034 10111001
272 035 10111010
273 036 10111011
274 037 10111100
275 038 10111101
276 039 10111110
277 040 10111111

```

```

*****/( A1PIN #05) IS DPE CC ZERO (1)H
*****/( B1PIN #06) IS DPE CC COUT (1)H
*****/( C1PIN #07) IS DPE CC NEG (1)H
*****/( D1PIN #04) IS DPE CC VBIT (1)H
*****/( E1PIN #03) IS DPF IR 10 (1)H
*****/( F1PIN #02) IS DPF IR 09 (1)H
*****/( G1PIN #01) IS DPF IR 08 (1)H
*****/( H1PIN #15) IS DPF IR 15 (1)H

```

```

BHI *****
BCC *****

```


PAGE REVISION CONTROL SHEET

SH NO	DATE	BY	REVISIONS	REMARKS
1	11/11/72	M	1	ETCH REV'D NOT TO BE USED PER ORDER D.E.
2	11/11/72	M	2	ECO #14 APPLIED TO ETCH/REVC AND E BOARDS ONLY
3	11/11/72	M	3	
4	11/11/72	M	4	
5	11/11/72	M	5	
6	11/11/72	M	6	
7	11/11/72	M	7	
8	11/11/72	M	8	
9	11/11/72	M	9	
10	11/11/72	M	10	
11	11/11/72	M	11	
12	11/11/72	M	12	
13	11/11/72	M	13	
14	11/11/72	M	14	
15	11/11/72	M	15	
16	11/11/72	M	16	
17	11/11/72	M	17	
18	11/11/72	M	18	
19	11/11/72	M	19	
20	11/11/72	M	20	
21	11/11/72	M	21	
22	11/11/72	M	22	
23	11/11/72	M	23	
24	11/11/72	M	24	
25	11/11/72	M	25	
26	11/11/72	M	26	
27	11/11/72	M	27	
28	11/11/72	M	28	
29	11/11/72	M	29	
30	11/11/72	M	30	
31	11/11/72	M	31	
32	11/11/72	M	32	
33	11/11/72	M	33	
34	11/11/72	M	34	
35	11/11/72	M	35	
36	11/11/72	M	36	
37	11/11/72	M	37	
38	11/11/72	M	38	
39	11/11/72	M	39	
40	11/11/72	M	40	
41	11/11/72	M	41	
42	11/11/72	M	42	
43	11/11/72	M	43	
44	11/11/72	M	44	
45	11/11/72	M	45	
46	11/11/72	M	46	
47	11/11/72	M	47	
48	11/11/72	M	48	
49	11/11/72	M	49	
50	11/11/72	M	50	
51	11/11/72	M	51	
52	11/11/72	M	52	
53	11/11/72	M	53	
54	11/11/72	M	54	
55	11/11/72	M	55	
56	11/11/72	M	56	
57	11/11/72	M	57	
58	11/11/72	M	58	
59	11/11/72	M	59	
60	11/11/72	M	60	
61	11/11/72	M	61	
62	11/11/72	M	62	
63	11/11/72	M	63	
64	11/11/72	M	64	
65	11/11/72	M	65	
66	11/11/72	M	66	
67	11/11/72	M	67	
68	11/11/72	M	68	
69	11/11/72	M	69	
70	11/11/72	M	70	
71	11/11/72	M	71	
72	11/11/72	M	72	
73	11/11/72	M	73	
74	11/11/72	M	74	
75	11/11/72	M	75	
76	11/11/72	M	76	
77	11/11/72	M	77	
78	11/11/72	M	78	
79	11/11/72	M	79	
80	11/11/72	M	80	
81	11/11/72	M	81	
82	11/11/72	M	82	
83	11/11/72	M	83	
84	11/11/72	M	84	
85	11/11/72	M	85	
86	11/11/72	M	86	
87	11/11/72	M	87	
88	11/11/72	M	88	
89	11/11/72	M	89	
90	11/11/72	M	90	
91	11/11/72	M	91	
92	11/11/72	M	92	
93	11/11/72	M	93	
94	11/11/72	M	94	
95	11/11/72	M	95	
96	11/11/72	M	96	
97	11/11/72	M	97	
98	11/11/72	M	98	
99	11/11/72	M	99	
100	11/11/72	M	100	

ETCH REV'D NOT TO BE USED PER ORDER D.E.

ECO #14 APPLIED TO ETCH/REVC AND E BOARDS ONLY

digital EQUIPMENT CORPORATION
WAYNAD MASSACHUSETTS

TITLE: CONTROL LOGIC AND MICROPROGRAM

DATE: 8/16/72
DATE: 8/21/72
DATE: 8/21/72
DATE: 8/21/72
DATE: 8/21/72

ORN: [Signature]
CHK'D: [Signature]
ENG: [Signature]
PROJ. ENG: [Signature]
PROD: [Signature]

SIZE CODE: B CS NUMBER: M7261-0-1 REV: V

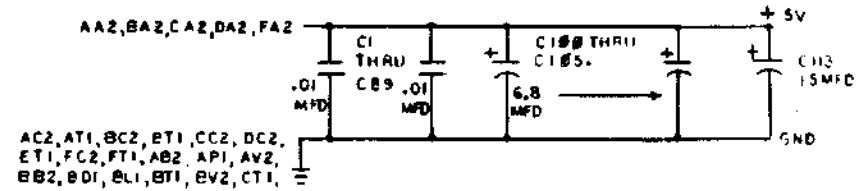
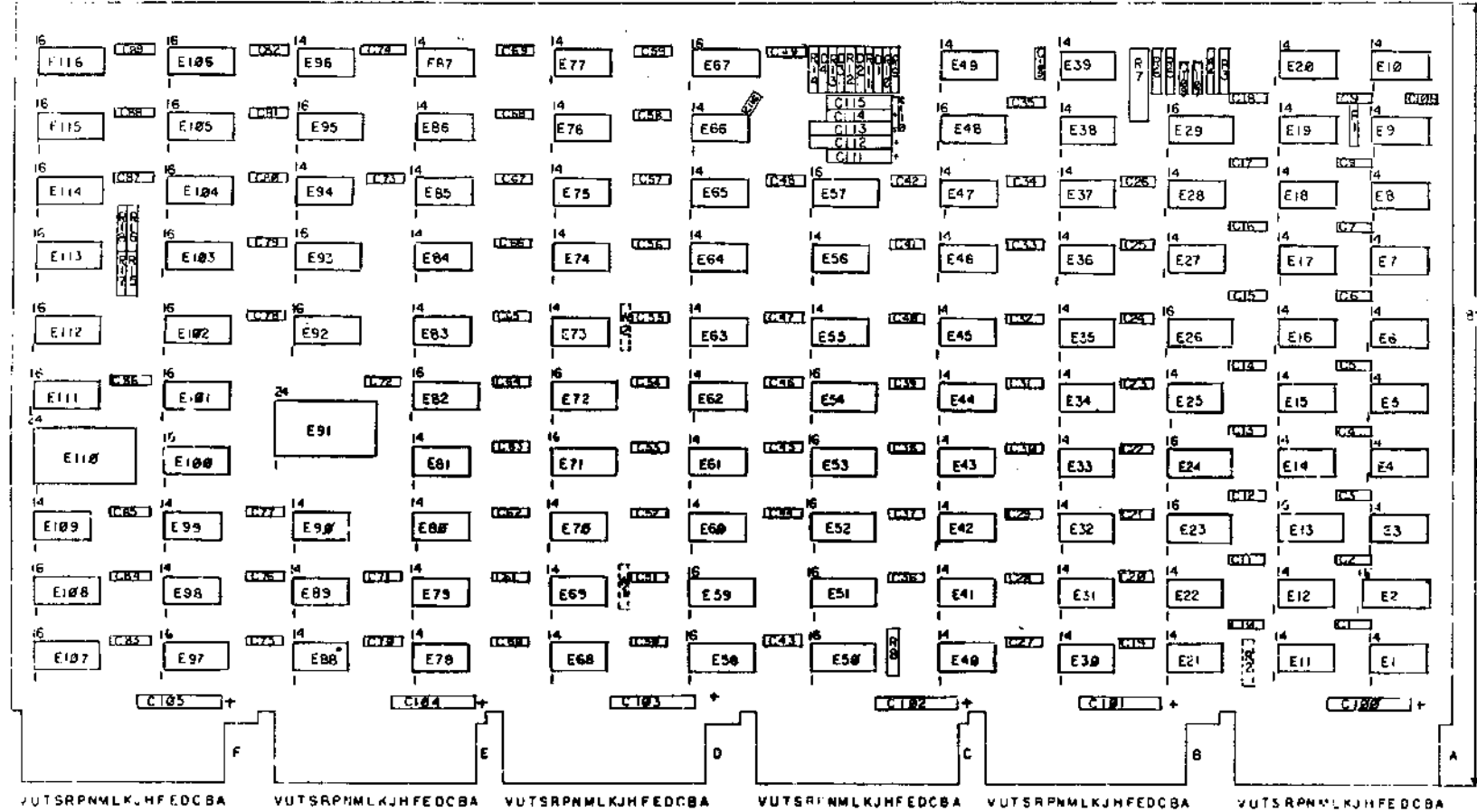
SCALE: SHEET 1 OF 14 DIST.:

THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION OF DEC. ONLY INFORMATION SHALL NOT BE DISCLOSED TO PERSONS OUTSIDE THE EMPLOY OF DEC, EXCEPT BY DEC PERSONNEL SO AUTHORIZED BY DEC, AND ONLY FOR USE BY SUCH OTHER PERSONS IN THE DESIGN, PRODUCTION OR MANUFACTURE OF PRODUCTS FOR DEC.

Copyright © 1972 Digital Equipment Corporation

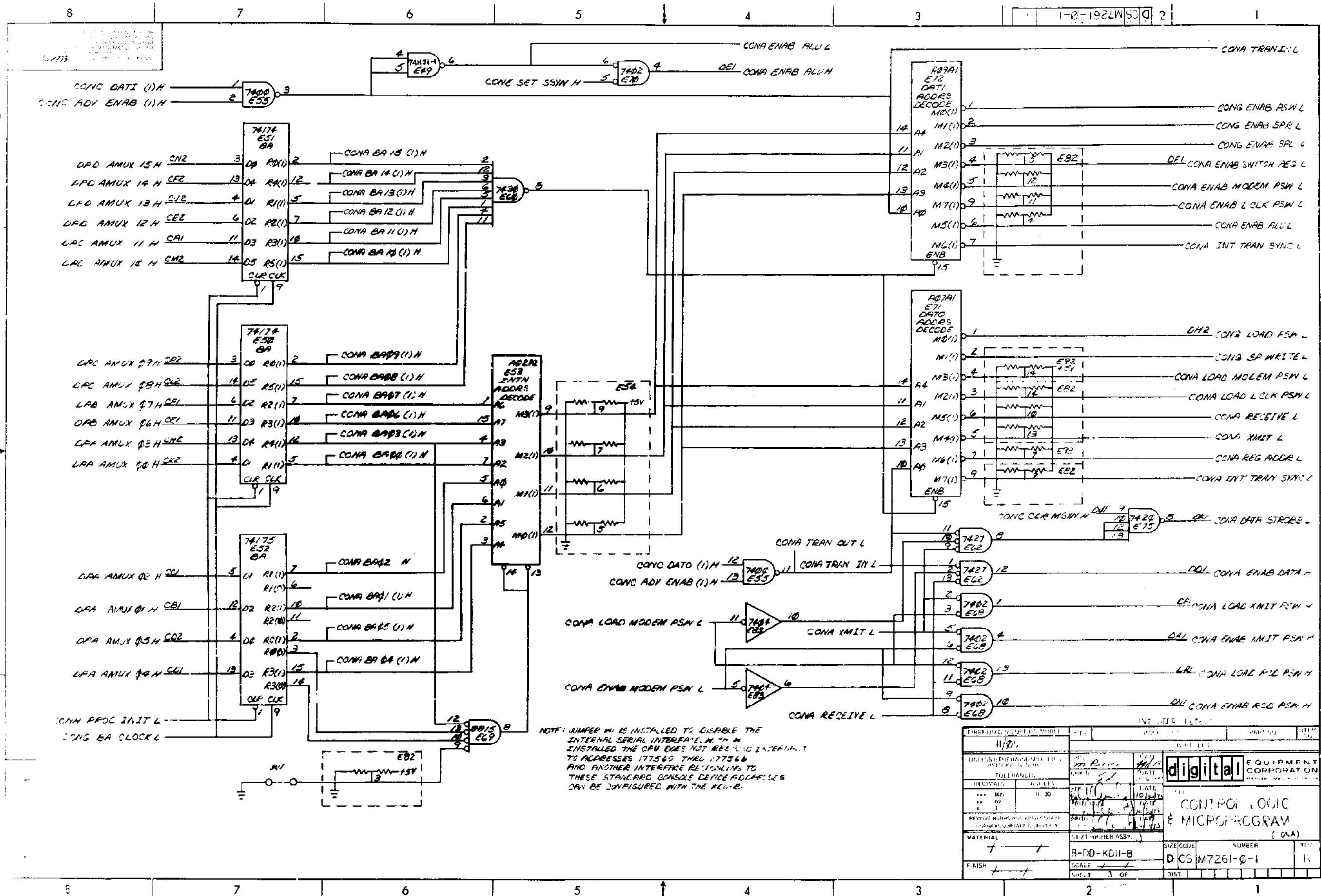
FOR MAINTENANCE PURPOSES THE
CIRCUIT SHOULD BE REPAIRED ACCORDING TO
INFORMATION AT NAD, MASS.

NOTE: UNLESS OTHERWISE NOTED, RESISTANCE IS IN OHMS.
CAPACITANCE IS IN PICOFARADS.
* DEC B640'S WERE PHASED IN AS 380 REPLACEMENTS.
ANY 380 FAILURES SHOULD BE REPLACED BY B640'S.



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	TEM. NO.
6	C100 THRU C105	CAPACITOR, 6.8 MFD, 35V, 10% S.TA.	1005306	69
2	C1 THRU C59	CAPACITOR, .01 MFD, 100V, 20% DISC.	1001610	68
2	C114, 115	CAPACITOR, .01 MFD, 35V, 10% S.TA.	1002964	67
1	C113	CAPACITOR, 15MFD, 20V, 10% S.TA.	1004812	66
1	C112	CAPACITOR, 10MFD, 20V, 10% S.TA.	1004813	65
1	C111	CAPACITOR, 2.2MFD, 20V, 10% S.TA.	1002627	64
1	C110	CAPACITOR, 220PF, 100V, 5% DM.	1000021	63
1	C109	CAPACITOR, 12% PF, 100V, 5% DM.	1000018	62
2	C108, C106	CAPACITOR, 1000PF, 100V, 5% DM.	1000042	61
1	C107	CAPACITOR, 2200PF, 250V, 20% DISC.	1000055	60
1	C106	CAPACITOR, 470 PF, 100V D.M.	1000024	59
4	D12, 3, 4	DIODE, D664	1100114	58
2	R4, R8	RESISTOR, 390, 1/4W, 5%	1300309	57
1	R14	RESISTOR, 56K, 1/4W, 5%	1301874	56
1	R11	RESISTOR, 10K, 1/4W, 5%	1300479	55
1	R7	RESISTOR, 1K, 3/4W, 10% POT.	1309143-07	54
6	R4, 5, 9, 10, 12, 13	RESISTOR, 30K, 1/4W, 5%	1302394	53
2	R3, 6, 18	RESISTOR, 1K, 1/4W, 5%	1300365	52
6	E54, 82, 92, 93, 95, 100	RESISTOR NETWORK	1311003-02	51
1	R1	RESISTOR, 150, 1/4W, 5%	1300250	50
2	R16, 17	RESISTOR, 2K, 1/4W, 5%	1302388	48
				47
				46
1	E24	IC A71A2	23A01A2	45
1	E116	IC A19A2	23A19A2	44
1	E115	IC A13A2	23A13A2	43
1	E114	IC A11A2	23A11A2	42
1	E113	IC A15A2	23A15A2	41
1	E112	IC A12A2	23A12A2	40
1	E108	IC A14A2	23A14A2	39
1	E107	IC A23A2	23A09A2	38
1	E106	IC A17A2	23A17A2	37
1	E105	IC A16A2	23A16A2	36
1	E104	IC A25A2	23A05A2	35
1	E103	IC A24A2	23A02A2	34
1	E102	IC A24A2	23A04A2	33
1	E77	IC A29A1	23A09A1	32
1	E76	IC A27A1	23A07A1	31
1	E75	IC A22A2	23A02A2	30
2	E91, 110	IC DEC 74154	1909701	29
1	E89	IC DEC 7405	1909930	28
1	E61	IC DEC 7410	1905576	27
1	E60	IC DEC 7430	1905578	26
2	E58, 59	IC DEC 74153	1909937	25
3	E50, 51, 97	IC DEC 74174	1910652	24
3	E49, 78, 109	IC DEC 74101-1	1909849	23
2	E46, 62	IC DEC 7427	1910878	22
2	E45, 63	IC DEC 8815	1909713	21
1	E39	IC DEC 7413	1909489	20
2	E34, 75	IC DEC 7420	1905577	19
4	E29, 48, 57, 67	IC DEC 9602	1910951	18
4	E25, 63, 83, 90	IC DEC 7404	1909686	17
7	E28, 28, 35, 73, 76, 87, 98	IC DEC 7474	1909547	16
1	E17	IC DEC 7437	1910091	15
3	E12, 22, 32	IC DEC 5640	1911459	14
4	E10, 64, 81, 84	IC DEC 74140	1905586	13
10	E9, 27, 37, 47, 55, 64, 80, 85, 96, 99	IC DEC 7400	1905575	12
13	E6, 14, 18, 19, 33, 35, 38, 68, 70, 74	IC DEC 7402	1909004	11
9	E4, 7, 8, 15, 16, 44, 56, 65, 86	IC DEC 7473	1905587	10
3	E3, 5, 79	IC DEC 7408	1910155	9
7	E2, 13, 23, 26, 52, 101, 111	IC DEC 74175	1910651	8
9	E11, 21, 30, 31, 40 THRU 43	IC DEC 8881	1909705	7
12		EYELET	9CC6732	6
1		HANDLE, MODULE	E-PS-1210711-02	5
1		ETCHED CIRCUIT BOARD	3009745	4
REF		MODULE EGO HISTORY	B-MH-M7261-9-6	3
REF		ASST/DRILL HOLE LAYOUT	D-AH-M7261-2-2	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7261-2-4	1

PARTS LIST			
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.
1		CONTROL LOGIC MICROPROGRAM	
1		EQUIPMENT CORPORATION	
1		PRINTED CIRCUIT	

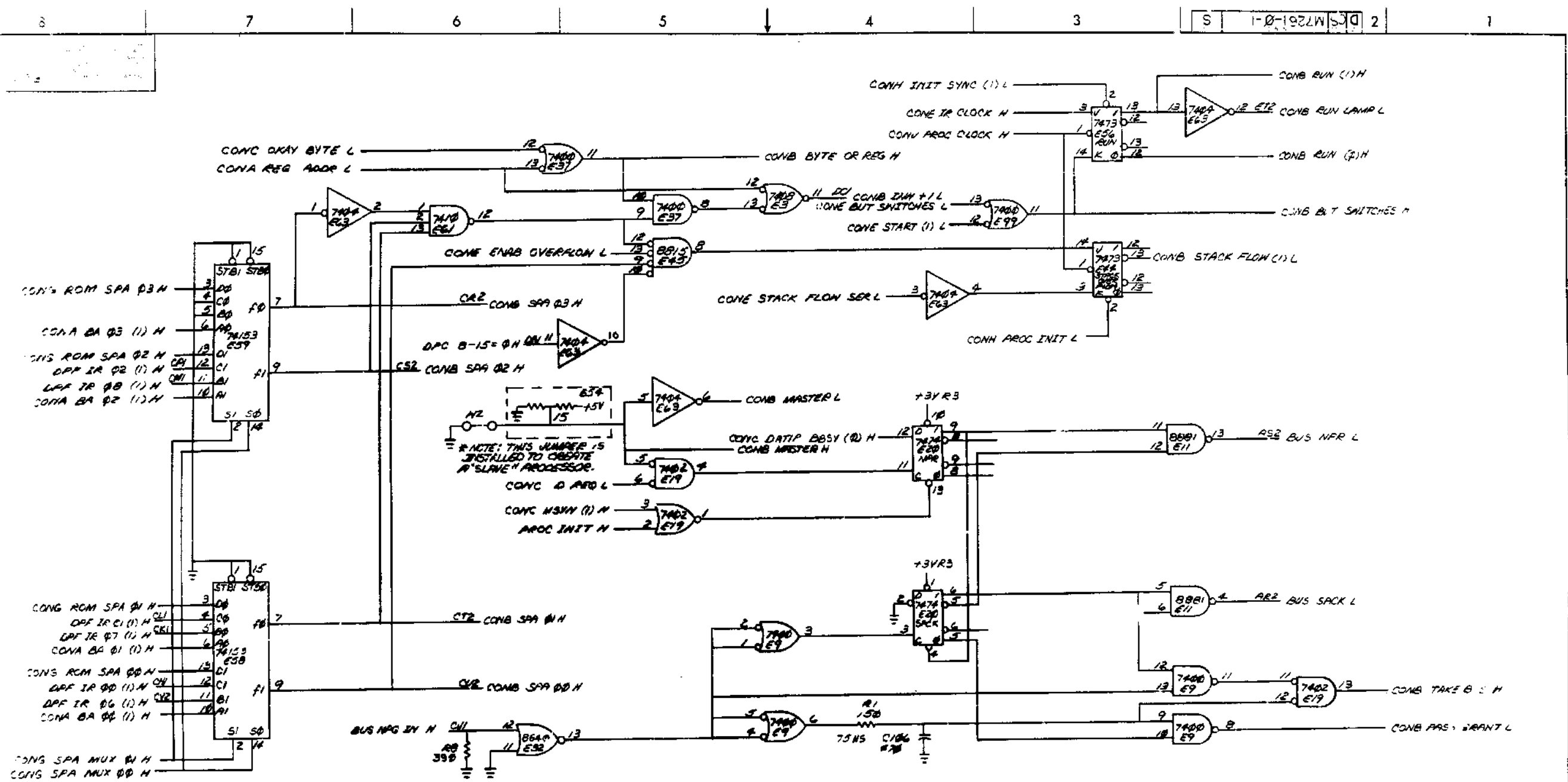


NOTE: JUMPER J1 IS INSTALLED TO DISABLE THE INTERNAL SERIAL INTERFACE. IF J1 IS INSTALLED THE CPU DOES NOT RESPOND INTERNALLY TO ADDRESSES 177560 THRU 177564 AND ANOTHER INTERFACE RELYING ON THESE STANDARD CONSOLE DEVICE ADDRESSES CAN BE CONFIGURED WITH THE ALU-B.

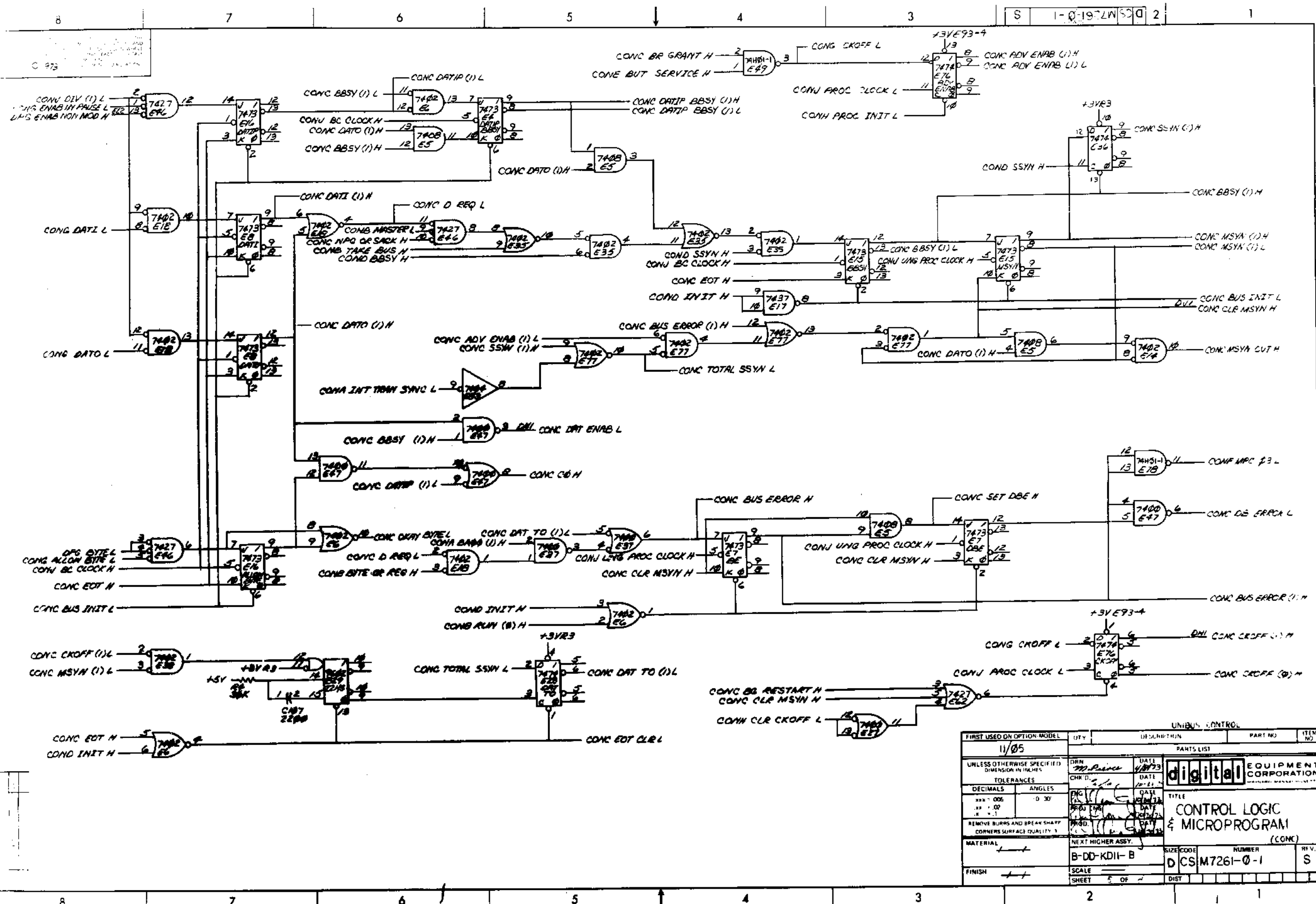
FIRST USE RECORD SHEET		DATE		PART NO.		REV.	
11/80		11/80		B-00-KD11-B		1	
DESIGNED BY: [Signature]		DRAWN BY: [Signature]		CHECKED BY: [Signature]		DATE: 11/30/80	
TOLERANCES:		FRACTIONS		DECIMALS		DIPLOMA	
DECIMALS		FRACTIONS		DECIMALS		DIPLOMA	
MATERIAL		REVISION NUMBER		DATE		DATE	
+		+		+		+	
FINISH		SCALE		SIZE/CODE		NUMBER	
+		+		B-00-KD11-B		D CS M7261-0-1	
SHEET		3 OF		DIST.			

digital EQUIPMENT CORPORATION

CONTROL LOGIC & MICROPROGRAM (CNA)

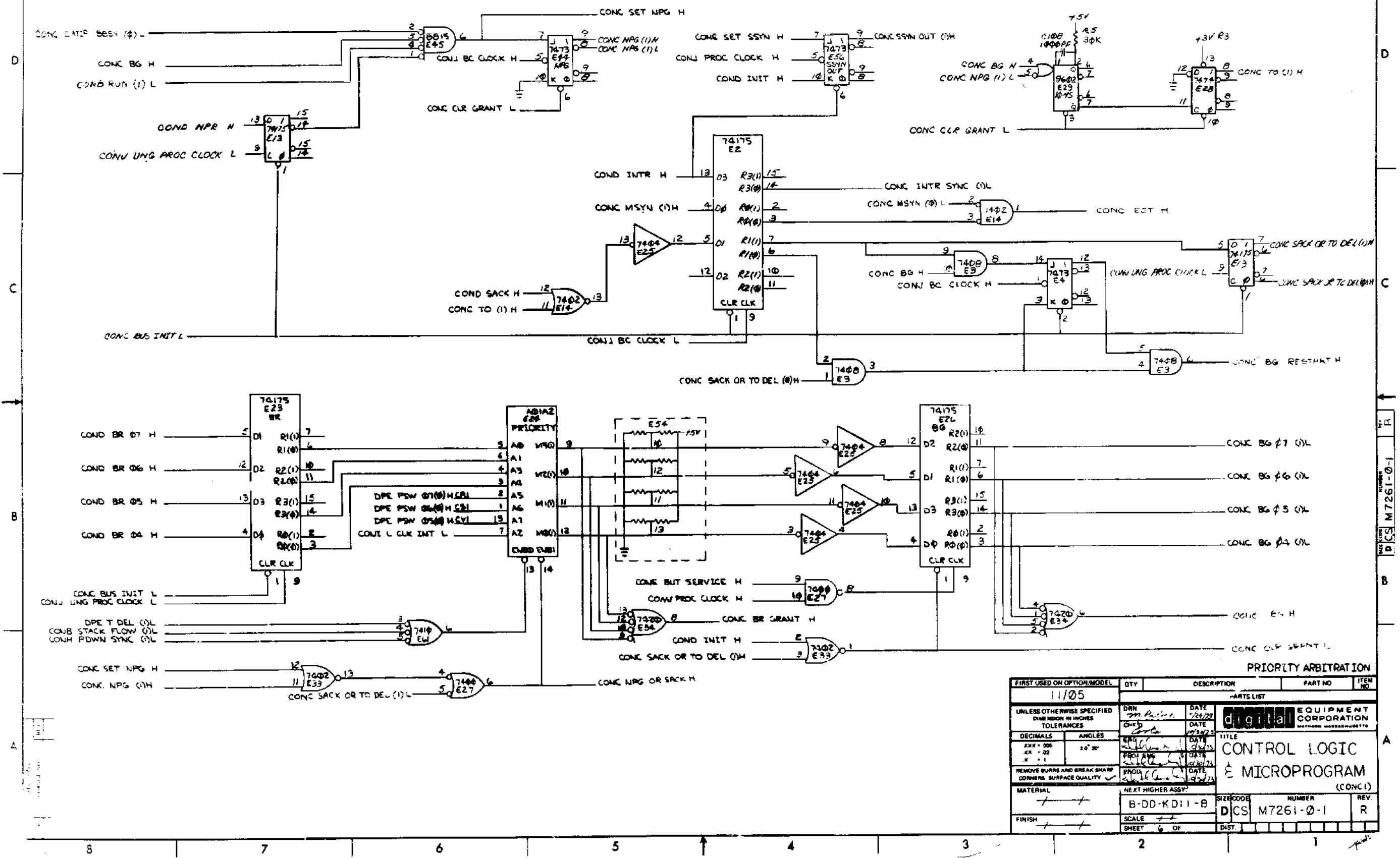


FIRST USED ON OPTION MODEL	CITY	DESCRIPTION	PART NO	ITEM NO
11/05				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DATE	DATE		
TOLERANCES	DATE	DATE		
DECIMALS	ANGLES		TITLE	
*** 006	0 30'		CONTROL LOGIC & MICROPROGRAM (CONB)	
REMOVE BURRS AND BREAK SHARP EDGES SURFACE QUALITY 1			REV.	
MATERIAL	NEXT HIGHER ASSY		SIZE/COPI	NUMBER
FINISH	B-DD-KDII-B		D CS M7261-0-1	S
	SCALE		SHEET	4 OF
			DIST.	



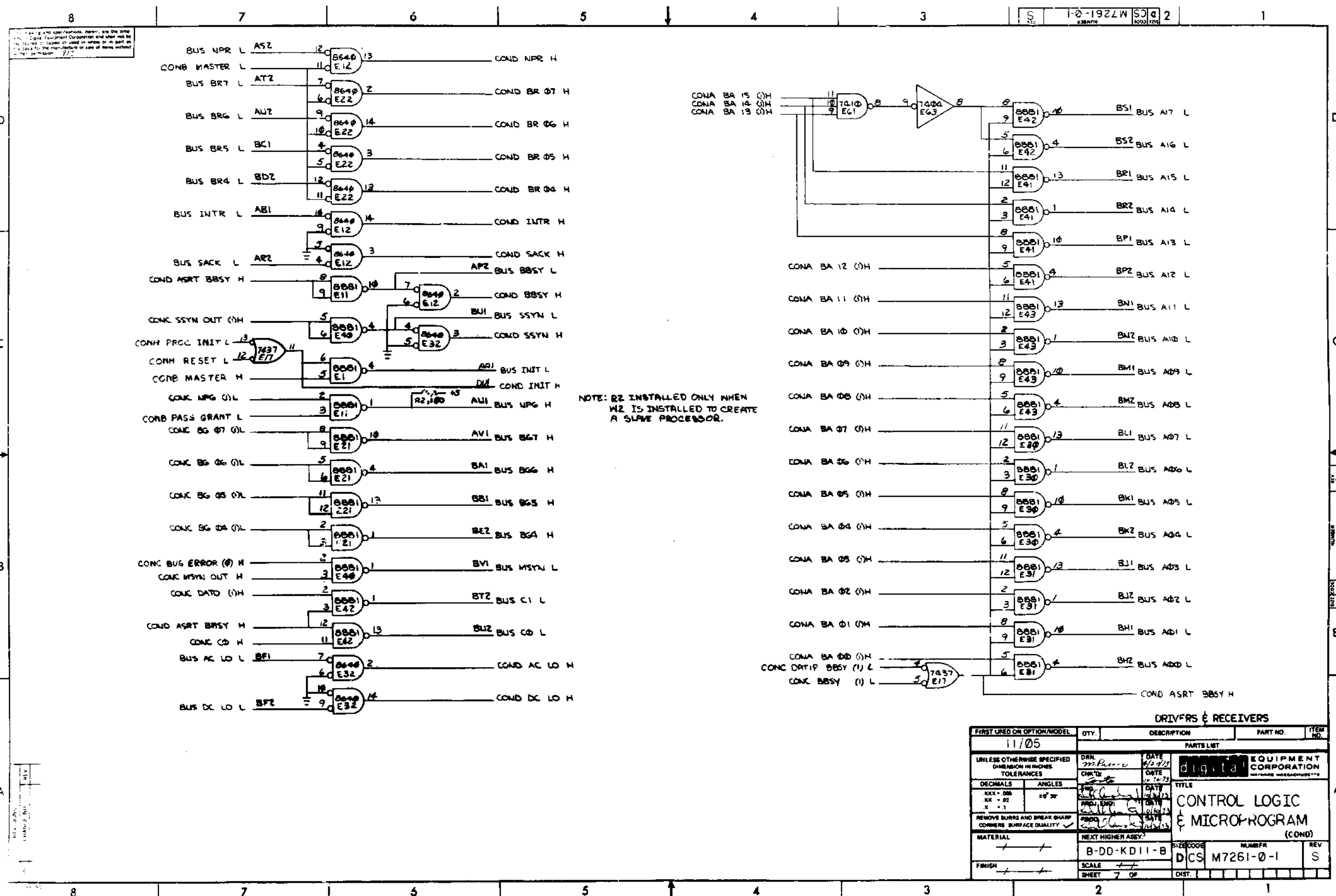
FIRST USED ON OPTION MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
11/05					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN	DATE	PARTS LIST	
TOLERANCES		CHK'D	DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	ENG	DATE	TITLE	
xxx - .006	.0 30'	PRD	DATE	CONTROL LOGIC & MICROPROGRAM	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 3		PRD	DATE	(CONC)	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE NUMBER REV.			
FINISH	B-DD-KDII-B	SCALE		D C S M 7261-0-1 S	
SHEET 5 OF 2		DIST			

1. This drawing is a schematic diagram. It is the property of Digital Equipment Corporation and shall not be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Digital Equipment Corporation.



FIRST USED ON OPTION/MODEL					QTY		DESCRIPTION		PART NO		ITEM NO	
11/05												
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES					DRN		DATE		PARTS LIST		REV	
DECIMALS ANGLES					DATE		DATE		TITLE		REV	
X.XX - .005 10° 30'					DATE		DATE		CONTROL LOGIC & MICROPROGRAM		REV	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					DATE		DATE		TITLE		REV	
MATERIAL					DATE		DATE		CONTROL LOGIC & MICROPROGRAM		REV	
FINISH					DATE		DATE		CONTROL LOGIC & MICROPROGRAM		REV	
					NEXT HIGHER ASSY:		SIZE CODE		NUMBER		REV	
					B-DD-KD:1-B		DCS		M7261-0-1		R	
					SCALE		SHEET		OF		REV	
					SHEET 6 OF		DIST				REV	

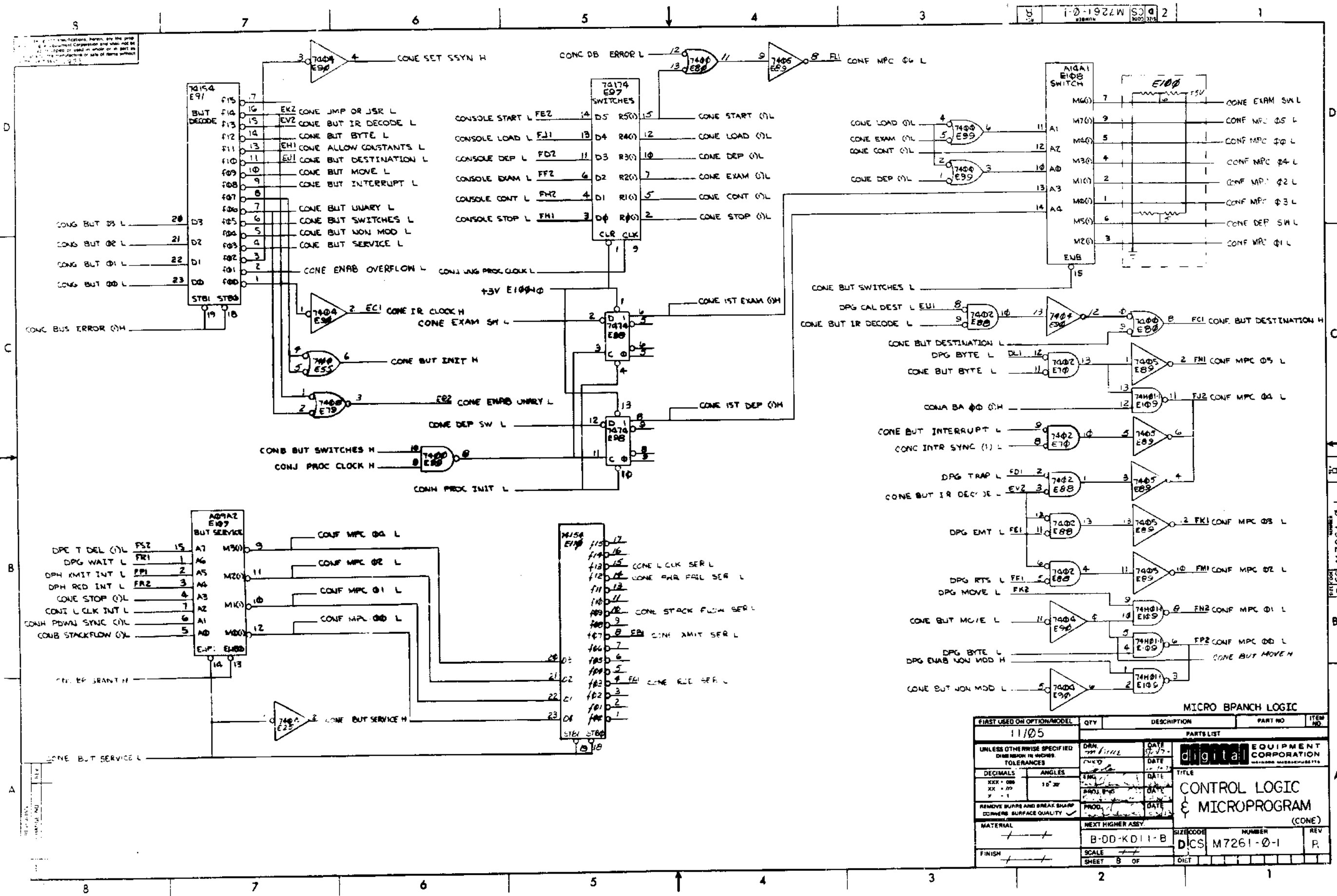
DCS M7261-0-1



NOTE: R2 IS INSTALLED ONLY WHEN M2 IS INSTALLED TO CREATE A SLAVE PROCESSOR.

DRIVERS & RECEIVERS

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
11/05					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES	DRN <i>m. R...</i>	DATE 6/2/73	 DIGITAL EQUIPMENT CORPORATION MILWAUKEE, WISCONSIN		
DECIMALS	CHK'D <i>[Signature]</i>	DATE 6/2/73			
ANGLES	ENG <i>[Signature]</i>	DATE 6/2/73	TITLE CONTROL LOGIC & MICROPROGRAM (COND)		
.XX - .000 .X - .01 X - .1	PREP <i>[Signature]</i> DATE 6/2/73	DATE 6/2/73			
REMOVE BURRS AND BREAK SHARP CORNERS - SURFACE QUALITY	NEXT HIGHER ASSY. B-DD-KD11-B	SCALE 1" = 1"	SIZE CODE DCS	NUMBER M7261-0-1	REV S
MATERIAL	FINISH	SHEET 7 OF	DIST.		

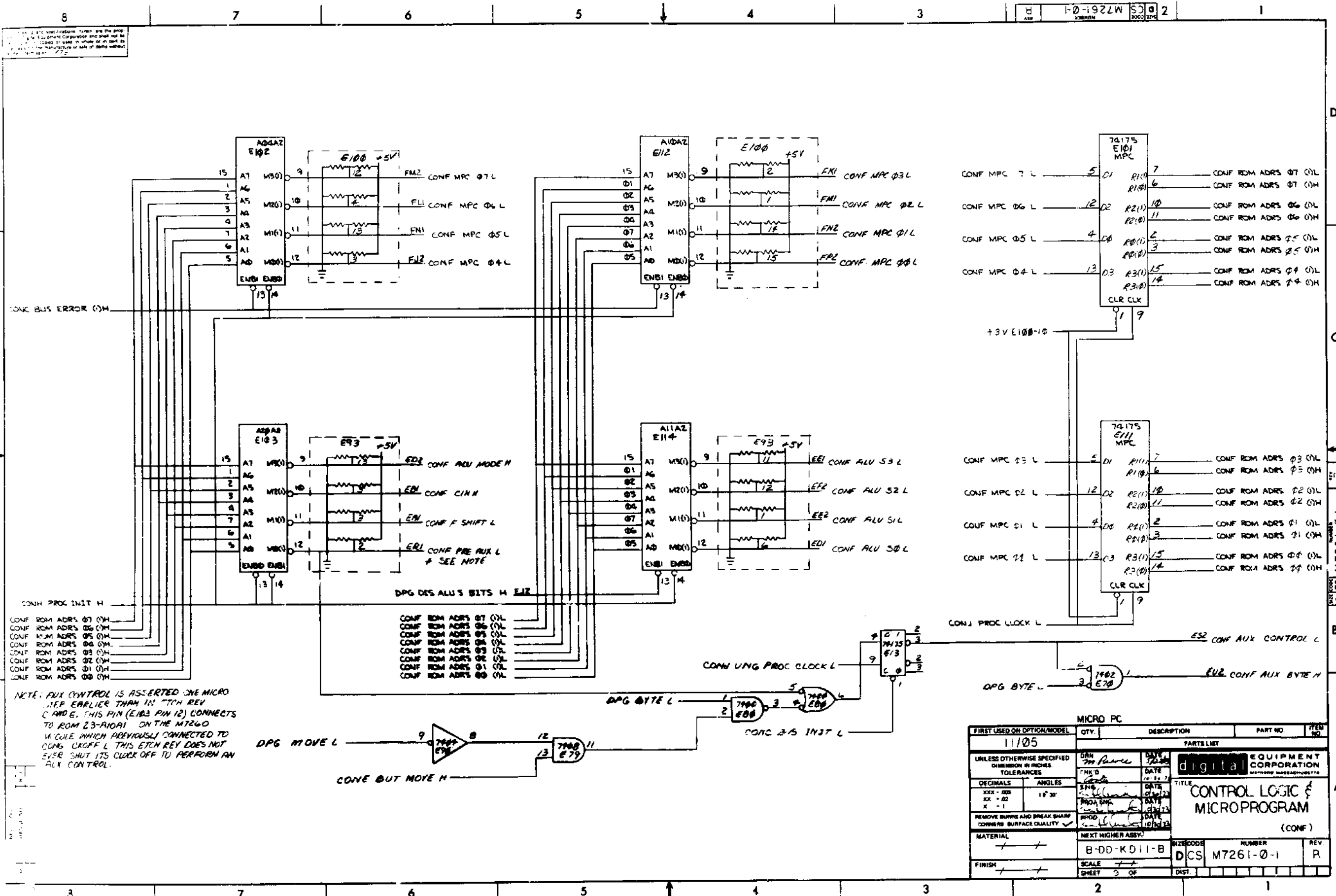


MICRO BRANCH LOGIC

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
XXX + .000	10° 30'	DATE		
Y - .1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH		SCALE		SHEET
		B-00-K011-B		8 OF
			SIZE CODE	
			DCS M7261-0-1	
			NUMBER	
			REV	
			P.	

REV. 10-68 M7261-0-1

1. This drawing is the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part in any form without the written consent of Digital Equipment Corporation.



1. All dimensions are in inches unless otherwise specified.
 2. All dimensions are to be maintained unless otherwise specified.
 3. All dimensions are to be maintained unless otherwise specified.
 4. All dimensions are to be maintained unless otherwise specified.
 5. All dimensions are to be maintained unless otherwise specified.
 6. All dimensions are to be maintained unless otherwise specified.
 7. All dimensions are to be maintained unless otherwise specified.
 8. All dimensions are to be maintained unless otherwise specified.

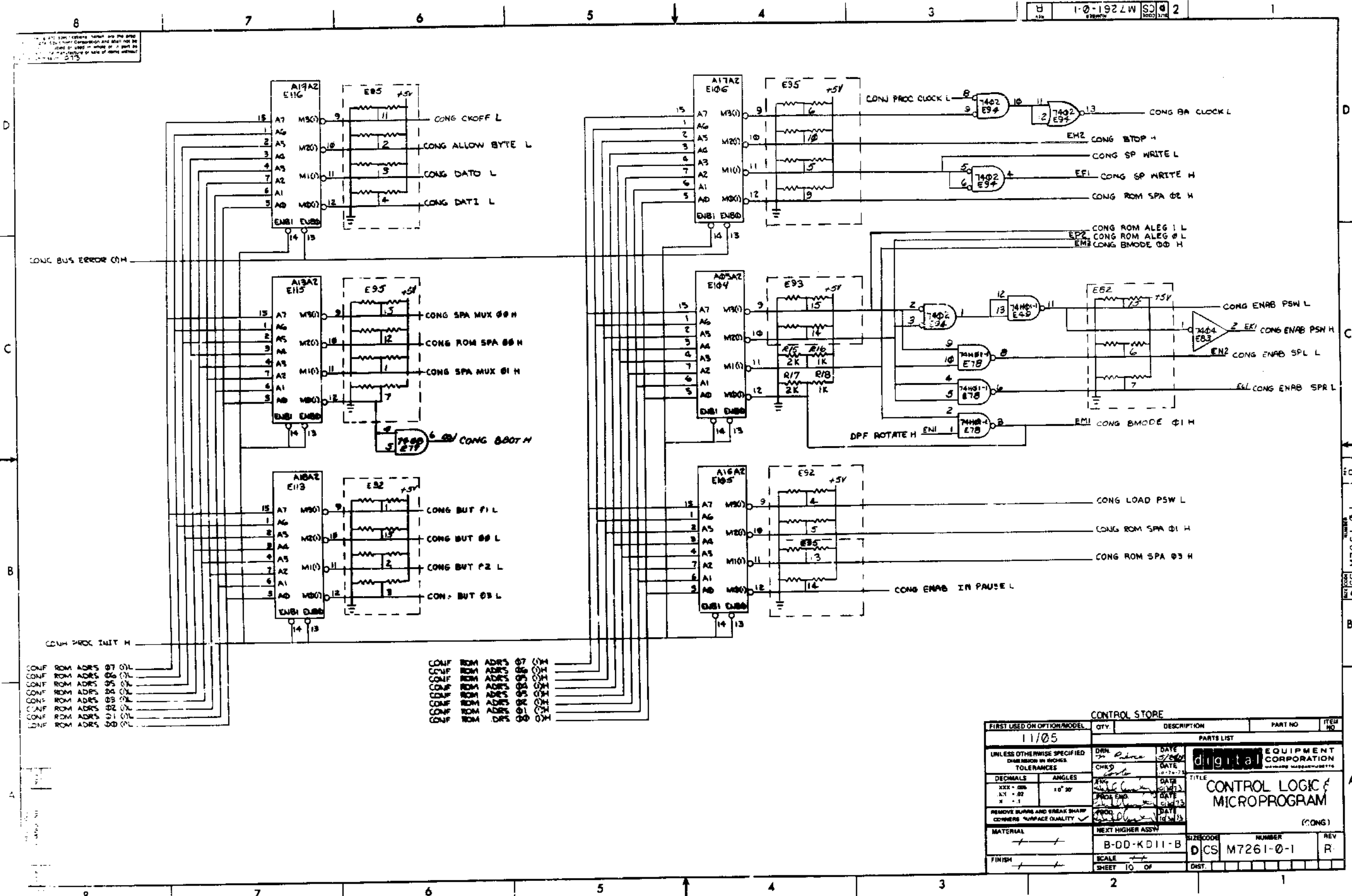
- CONF ROM ADDR 07 (O)H
- CONF ROM ADDR 06 (O)H
- CONF ROM ADDR 05 (O)H
- CONF ROM ADDR 04 (O)H
- CONF ROM ADDR 03 (O)H
- CONF ROM ADDR 02 (O)H
- CONF ROM ADDR 01 (O)H
- CONF ROM ADDR 00 (O)H

NOTE: AUX CONTROL IS ASSERTED ONE MICRO PER EARLIER THAN IN 7TH REV C AND E. THIS PIN (E103 PIN 12) CONNECTS TO ROM 23-R10A1 ON THE M7260 MICRO WHICH PREVIOUSLY CONNECTED TO CONG CROFF L THIS ETCH REV DOES NOT EVER SHUT ITS CLOCK OFF TO PERFORM AN AUX CONTROL.

- CONF MPC 07 L
- CONF MPC 06 L
- CONF MPC 05 L
- CONF MPC 04 L

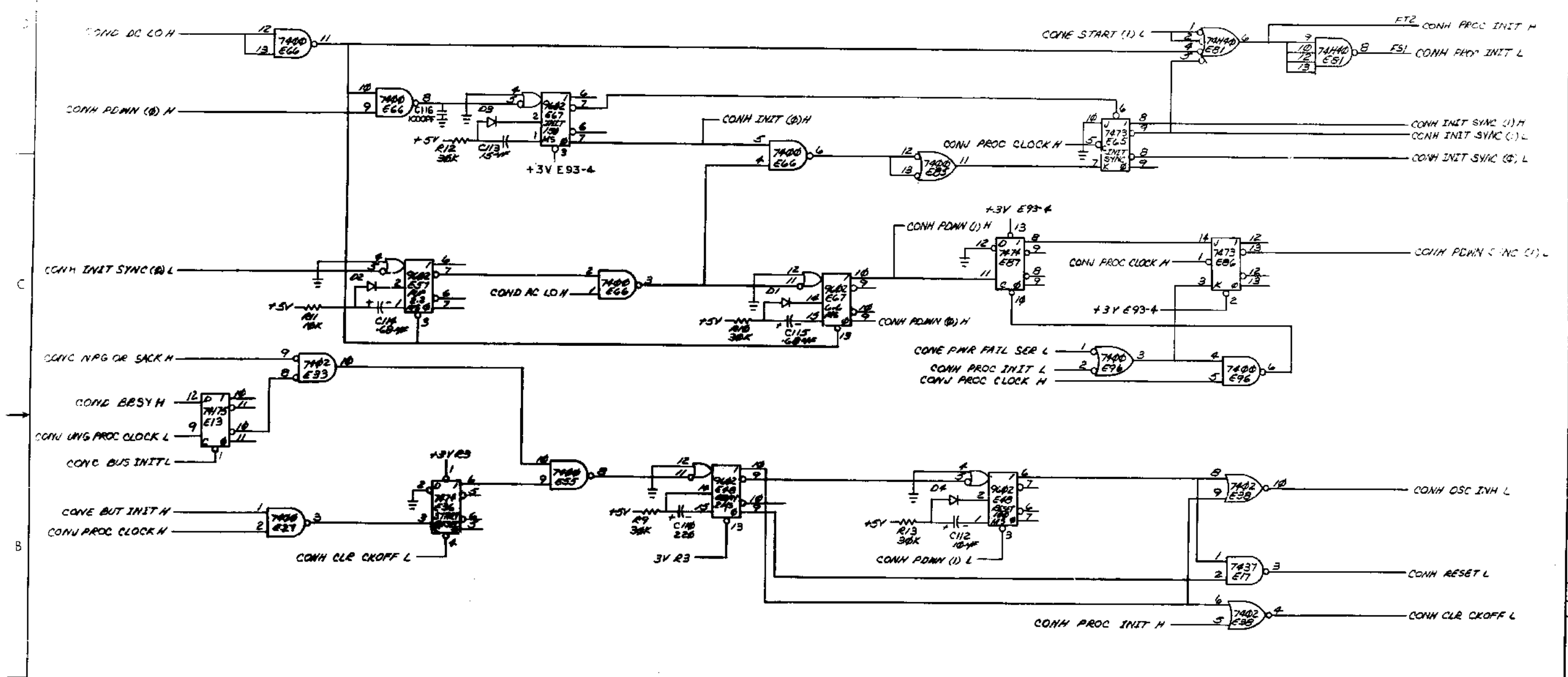
- CONF MPC 03 L
- CONF MPC 02 L
- CONF MPC 01 L
- CONF MPC 00 L

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE	DATE	EQUIPMENT CORPORATION	
DECIMALS ANGLES	DATE	DATE	TITLE	
XXX - 005 XX - 02 X - 1	10° 30'	DATE	CONTROL LOGIC & MICROPROGRAM	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	DATE	DATE	(CONF)	
MATERIAL	NEXT HIGHER ASSY:	DATE	REV.	
FINISH	B-DD-KD11-B	DATE	R	
SCALE	SIZE CODE	DATE	NUMBER	
SHEET 2 OF	DIST.	DATE	DCS M7261-0-1	

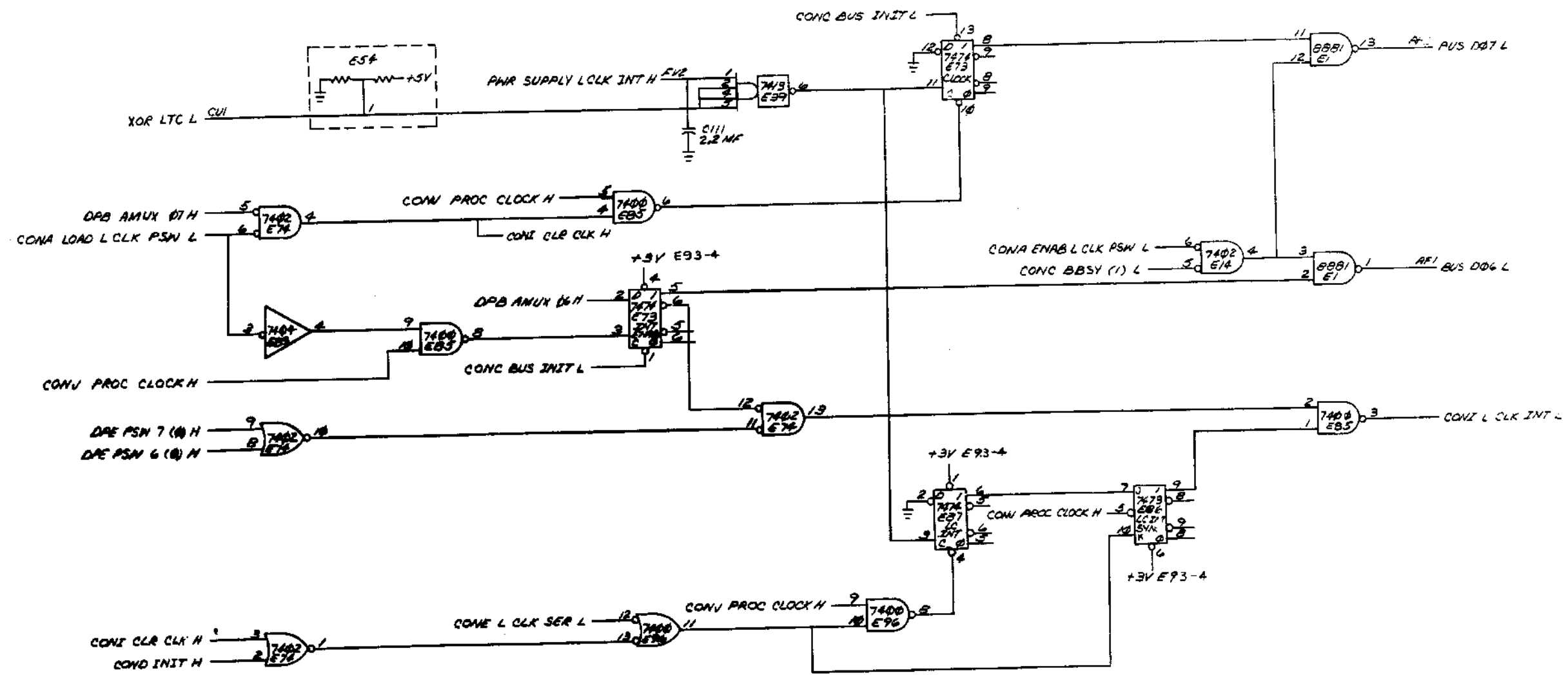


- CONG ROM ADDR 07 0L
- CONG ROM ADDR 06 0L
- CONG ROM ADDR 05 0L
- CONG ROM ADDR 04 0L
- CONG ROM ADDR 03 0L
- CONG ROM ADDR 02 0L
- CONG ROM ADDR 01 0L
- CONG ROM ADDR 00 0L
- CONG ROM ADDR 07 0H
- CONG ROM ADDR 06 0H
- CONG ROM ADDR 05 0H
- CONG ROM ADDR 04 0H
- CONG ROM ADDR 03 0H
- CONG ROM ADDR 02 0H
- CONG ROM ADDR 01 0H
- CONG ROM ADDR 00 0H

CONTROL STORE				
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	DRN <i>[Signature]</i>	DATE 3/8/73	digital EQUIPMENT CORPORATION MILWAUKEE, WISCONSIN	
TOLERANCES	CHEK <i>[Signature]</i>	DATE 10-17-73	TITLE CONTROL LOGIC & MICROPROGRAM	
DECIMALS	XXX - .006	ANGLES	DATE 10-17-73	
.XX - .02			DATE 10-17-73	
.X - .1			DATE 10-17-73	
REMOVE BURRS AND BREAK SHARP CORNERS TO RAISE QUALITY	APPR <i>[Signature]</i>	DATE 10-17-73	DATE 10-17-73	
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV
FINISH	B-DD-KD11-B	D	CS M7261-0-1	R
SCALE	SHEET 10 OF	DIST		

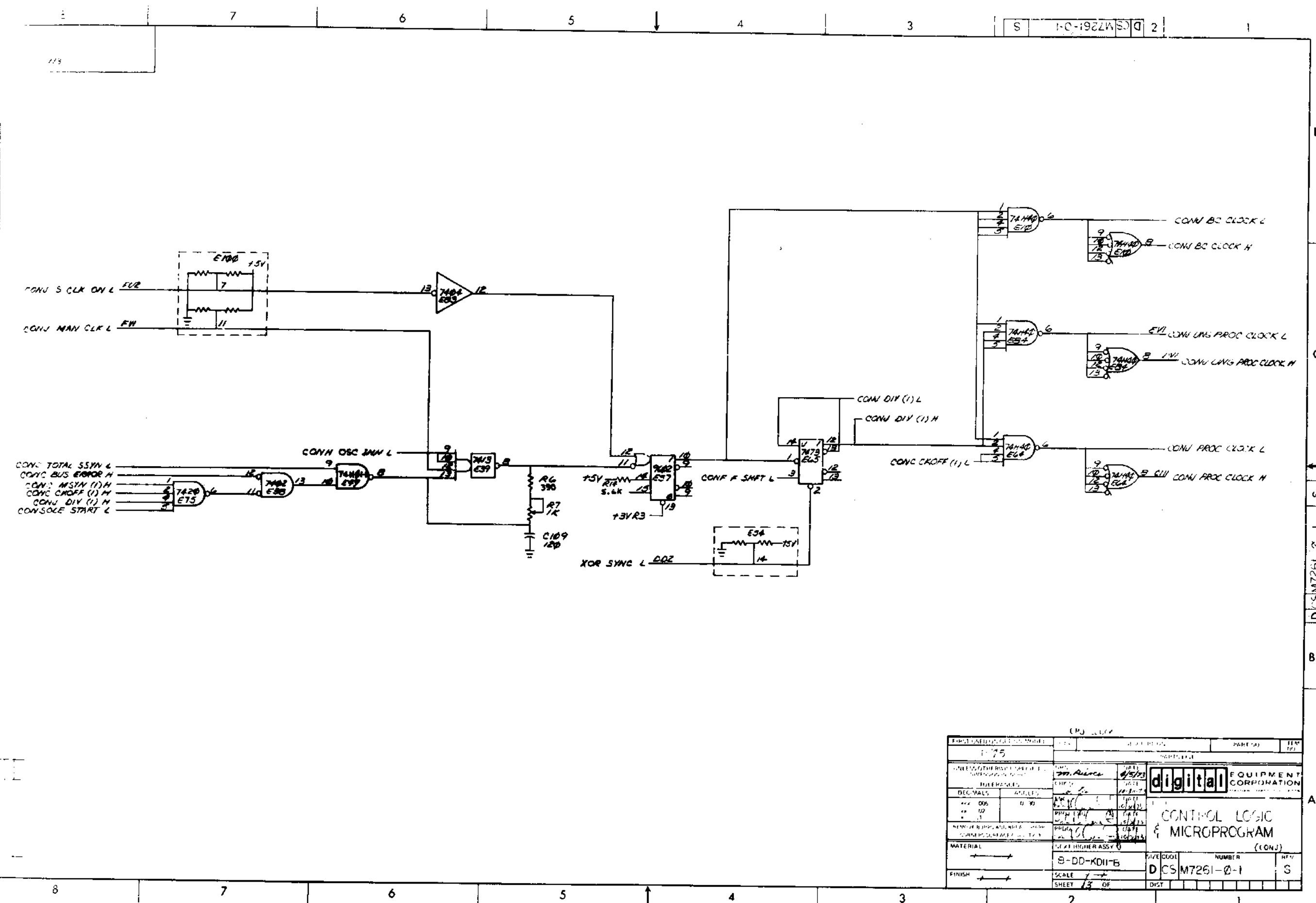


FIRST USED ON OPTION MODEL		QTY	DESCRIPTION	PART NO	ITEM NO
11/05					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN	DATE	EQUIPMENT CORPORATION	
TOLERANCES		CHK'D	DATE	CONTROL LOGIC & MICROPROGRAM	
DECIMALS	ANGLES	ENG	DATE	TITLE	
.XX - .005	.0 30	PROJ. ENG	DATE	CONTROL LOGIC & MICROPROGRAM	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1		PROD	DATE	MATERIAL	
		NEXT HIGHER ASSY		(CONH)	
		B-DD-K011-B		SIZE/CODE	NUMBER
		SCALE		DCSM7261-0-1	
		SHEET 11 OF 4		REV. T	



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		DRN. <i>M. Rine</i>	DATE 11/05	digital EQUIPMENT CORPORATION	
TOLERANCES		CHK'D. <i>[Signature]</i>	DATE 11/05		
DECIMALS	ANGLES	ENG. <i>[Signature]</i>	DATE 11/05	CONTROL LOGIC & MICROPROGRAM (CONT)	
.xxx - .005	-0 30'	PROJ. ENG. <i>[Signature]</i>	DATE 11/05		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 7		PROD. <i>[Signature]</i>	DATE 11/05	SIZE CODE: B-DD-KD11-B NUMBER: DCS M7261-0-1 REV: S	
MATERIAL	ANGLES	NEXT HIGHER ASSY.			
FINISH	SCALE			SHEET 12 OF 12	

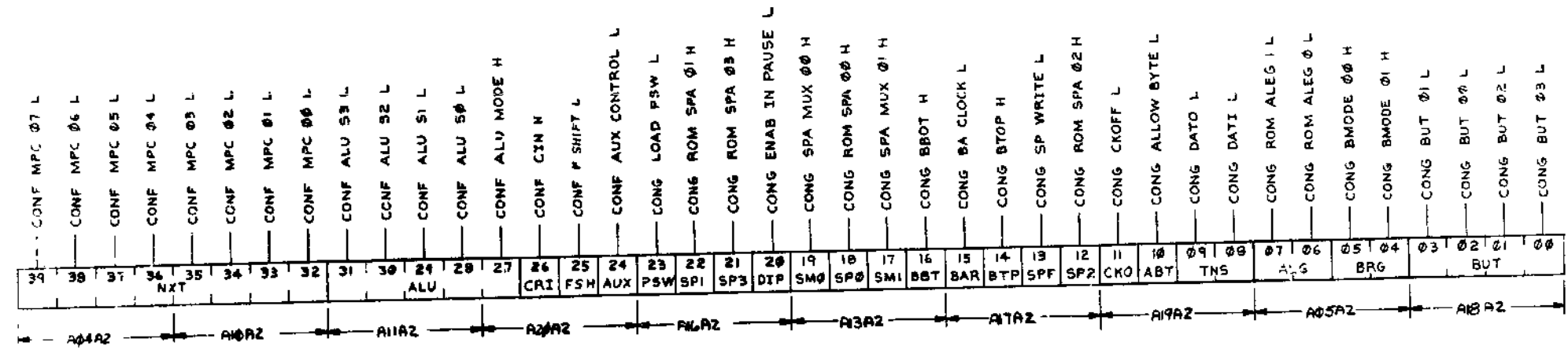
DCS M7261-0-1



FIRST USE (DATE)		REV		PART NO		REV	
1/75							
DESIGNED BY		DATE		CHECKED BY		DATE	
M. R. RICE		6/2/73		J. G. JONES		10/1/73	
DRAWN BY		DATE		CHECKED BY		DATE	
J. G. JONES		10/1/73		M. R. RICE		6/2/73	
MATERIAL		DATE		CHECKED BY		DATE	
S-DD-K011-B		10/1/73		J. G. JONES		10/1/73	
FINISH		DATE		CHECKED BY		DATE	
SHEET 13 OF		10/1/73		M. R. RICE		6/2/73	
DIGITAL EQUIPMENT CORPORATION				CONTROL LOGIC & MICROPROGRAM (CONJ)			
MATERIAL		DATE		CHECKED BY		DATE	
S-DD-K011-B		10/1/73		J. G. JONES		10/1/73	
FINISH		DATE		CHECKED BY		DATE	
SHEET 13 OF		10/1/73		M. R. RICE		6/2/73	

8 7 6 5 4 3 2 1

1. This drawing is the property of Digital Equipment Corporation. It is to be used only for the specific purpose for which it was prepared. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Digital Equipment Corporation.



	31	30	29	28	27
AL	L	L	L	L	L
AA	L	L	L	L	L
AB	L	L	L	L	L
AB	L	L	L	L	L
B	L	L	L	L	L
A OR B	L	L	L	L	L
BL	L	L	L	L	L
A PLUS B	L	L	L	L	L
A XOR B	L	L	L	L	L
A-B	L	L	L	L	L
B	L	L	L	L	L
-I	L	L	L	L	L
A-J	L	L	L	L	L
A	L	L	L	L	L
ASL	L	L	L	L	L
ROL	L	L	L	L	L
ASR	L	L	L	L	L
ROR	L	L	L	L	L

<table border="1"> <tr> <td>26</td> <td>CR1</td> </tr> <tr> <td>OFF</td> <td>L</td> </tr> <tr> <td>ON</td> <td>H</td> </tr> </table>	26	CR1	OFF	L	ON	H	<table border="1"> <tr> <td>23</td> <td>PSW</td> </tr> <tr> <td>HOLD</td> <td>L</td> </tr> <tr> <td>LOAD</td> <td>H</td> </tr> </table>	23	PSW	HOLD	L	LOAD	H	<table border="1"> <tr> <td>14</td> <td>BTP</td> </tr> <tr> <td>BREG</td> <td>L</td> </tr> <tr> <td>SEX</td> <td>H</td> </tr> <tr> <td>+</td> <td>L</td> </tr> </table>	14	BTP	BREG	L	SEX	H	+	L	<table border="1"> <tr> <td>10</td> <td>ABT</td> </tr> <tr> <td>NO</td> <td>L</td> </tr> <tr> <td>YES</td> <td>H</td> </tr> </table>	10	ABT	NO	L	YES	H	<table border="1"> <tr> <td>05</td> <td>04</td> </tr> <tr> <td>BRG</td> <td>BRG</td> </tr> <tr> <td>LOAD</td> <td>L</td> </tr> <tr> <td>SLEFT</td> <td>L</td> </tr> <tr> <td>SRIGHT</td> <td>L</td> </tr> <tr> <td>HOLD</td> <td>L</td> </tr> </table>	05	04	BRG	BRG	LOAD	L	SLEFT	L	SRIGHT	L	HOLD	L	<table border="1"> <tr> <td>03</td> <td>02</td> <td>01</td> <td>00</td> </tr> <tr> <td>BUT</td> <td>BUT</td> <td>BUT</td> <td>BUT</td> </tr> <tr> <td>NON</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>JMP/JSR</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>IA DECODE</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>BYTE</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>CONST</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>DEST</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>MOV</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>INTR</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>INIT</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>UNARY</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>SWITCHES</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>NON MOD</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>SERVICE</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>SSYNC</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>ENOVFLO</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>IR CLK</td> <td>L</td> <td>L</td> <td>L</td> </tr> </table>	03	02	01	00	BUT	BUT	BUT	BUT	NON	L	L	L	JMP/JSR	L	L	L	IA DECODE	L	L	L	BYTE	L	L	L	CONST	L	L	L	DEST	L	L	L	MOV	L	L	L	INTR	L	L	L	INIT	L	L	L	UNARY	L	L	L	SWITCHES	L	L	L	NON MOD	L	L	L	SERVICE	L	L	L	SSYNC	L	L	L	ENOVFLO	L	L	L	IR CLK	L	L	L
26	CR1																																																																																																																		
OFF	L																																																																																																																		
ON	H																																																																																																																		
23	PSW																																																																																																																		
HOLD	L																																																																																																																		
LOAD	H																																																																																																																		
14	BTP																																																																																																																		
BREG	L																																																																																																																		
SEX	H																																																																																																																		
+	L																																																																																																																		
10	ABT																																																																																																																		
NO	L																																																																																																																		
YES	H																																																																																																																		
05	04																																																																																																																		
BRG	BRG																																																																																																																		
LOAD	L																																																																																																																		
SLEFT	L																																																																																																																		
SRIGHT	L																																																																																																																		
HOLD	L																																																																																																																		
03	02	01	00																																																																																																																
BUT	BUT	BUT	BUT																																																																																																																
NON	L	L	L																																																																																																																
JMP/JSR	L	L	L																																																																																																																
IA DECODE	L	L	L																																																																																																																
BYTE	L	L	L																																																																																																																
CONST	L	L	L																																																																																																																
DEST	L	L	L																																																																																																																
MOV	L	L	L																																																																																																																
INTR	L	L	L																																																																																																																
INIT	L	L	L																																																																																																																
UNARY	L	L	L																																																																																																																
SWITCHES	L	L	L																																																																																																																
NON MOD	L	L	L																																																																																																																
SERVICE	L	L	L																																																																																																																
SSYNC	L	L	L																																																																																																																
ENOVFLO	L	L	L																																																																																																																
IR CLK	L	L	L																																																																																																																
<table border="1"> <tr> <td>25</td> <td>FSH</td> </tr> <tr> <td>OFF</td> <td>L</td> </tr> <tr> <td>ON</td> <td>H</td> </tr> </table>	25	FSH	OFF	L	ON	H	<table border="1"> <tr> <td>20</td> <td>DIP</td> </tr> <tr> <td>OFF</td> <td>L</td> </tr> <tr> <td>ON</td> <td>H</td> </tr> </table>	20	DIP	OFF	L	ON	H	<table border="1"> <tr> <td>16</td> <td>BBT</td> </tr> <tr> <td>BRG</td> <td>L</td> </tr> <tr> <td>SEX</td> <td>H</td> </tr> <tr> <td>+</td> <td>L</td> </tr> </table>	16	BBT	BRG	L	SEX	H	+	L	<table border="1"> <tr> <td>13</td> <td>SPF</td> </tr> <tr> <td>READ</td> <td>L</td> </tr> <tr> <td>WRITE</td> <td>H</td> </tr> </table>	13	SPF	READ	L	WRITE	H	<table border="1"> <tr> <td>09</td> <td>08</td> </tr> <tr> <td>TNS</td> <td>TNS</td> </tr> <tr> <td>NONE</td> <td>L</td> </tr> <tr> <td>DATI</td> <td>L</td> </tr> <tr> <td>DATO</td> <td>H</td> </tr> </table>	09	08	TNS	TNS	NONE	L	DATI	L	DATO	H																																																																											
25	FSH																																																																																																																		
OFF	L																																																																																																																		
ON	H																																																																																																																		
20	DIP																																																																																																																		
OFF	L																																																																																																																		
ON	H																																																																																																																		
16	BBT																																																																																																																		
BRG	L																																																																																																																		
SEX	H																																																																																																																		
+	L																																																																																																																		
13	SPF																																																																																																																		
READ	L																																																																																																																		
WRITE	H																																																																																																																		
09	08																																																																																																																		
TNS	TNS																																																																																																																		
NONE	L																																																																																																																		
DATI	L																																																																																																																		
DATO	H																																																																																																																		
<table border="1"> <tr> <td>24</td> <td>AUX</td> </tr> <tr> <td>OFF</td> <td>L</td> </tr> <tr> <td>ON</td> <td>H</td> </tr> </table>	24	AUX	OFF	L	ON	H	<table border="1"> <tr> <td>19</td> <td>17</td> </tr> <tr> <td>SM0</td> <td>SM1</td> </tr> <tr> <td>ROM</td> <td>L</td> </tr> <tr> <td>IRS</td> <td>L</td> </tr> <tr> <td>IRD</td> <td>L</td> </tr> <tr> <td>BA</td> <td>L</td> </tr> </table>	19	17	SM0	SM1	ROM	L	IRS	L	IRD	L	BA	L	<table border="1"> <tr> <td>15</td> <td>BAR</td> </tr> <tr> <td>HOLD</td> <td>L</td> </tr> <tr> <td>LOAD</td> <td>H</td> </tr> </table>	15	BAR	HOLD	L	LOAD	H	<table border="1"> <tr> <td>11</td> <td>CKO</td> </tr> <tr> <td>OFF</td> <td>L</td> </tr> <tr> <td>ON</td> <td>H</td> </tr> </table>	11	CKO	OFF	L	ON	H	<table border="1"> <tr> <td>07</td> <td>06</td> </tr> <tr> <td>ALG</td> <td>ALG</td> </tr> <tr> <td>SP</td> <td>L</td> </tr> <tr> <td>NULL</td> <td>L</td> </tr> <tr> <td>SPR</td> <td>L</td> </tr> <tr> <td>PSW</td> <td>L</td> </tr> </table>	07	06	ALG	ALG	SP	L	NULL	L	SPR	L	PSW	L																																																																					
24	AUX																																																																																																																		
OFF	L																																																																																																																		
ON	H																																																																																																																		
19	17																																																																																																																		
SM0	SM1																																																																																																																		
ROM	L																																																																																																																		
IRS	L																																																																																																																		
IRD	L																																																																																																																		
BA	L																																																																																																																		
15	BAR																																																																																																																		
HOLD	L																																																																																																																		
LOAD	H																																																																																																																		
11	CKO																																																																																																																		
OFF	L																																																																																																																		
ON	H																																																																																																																		
07	06																																																																																																																		
ALG	ALG																																																																																																																		
SP	L																																																																																																																		
NULL	L																																																																																																																		
SPR	L																																																																																																																		
PSW	L																																																																																																																		

CONTROL STORE WORK FORMAT

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO	ITEM NO
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRAWN	DATE	digital EQUIPMENT CORPORATION
		DATE	DATE	
DECIMALS	ANGLES	ENG	DATE	TITLE
XX - 00	10' 30	DATE	DATE	
REMOVE BURNS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD	DATE	CONTROL LOGIC & MICROPROGRAM
		DATE	DATE	
MATERIAL	NEXT HIGHER ASSY	SIZE/COOR	NUMBER	REV
+	B-DD-KD11-B	DCS	M7261-0-1	2
FINISH	SCALE	SHEET	OF	DIST
+	1A	1A	OF	

8 7 6 5 4 3 2 1

A07A1

27-JUL-72

23-A07A1

ROM LISTING #7261-8 REV. A

/(#Y8 (PIN #8) CONA INT TRAN SYNC L
 *(#Y7 (PIN #7) CONA REG ADDR L
 **/(#Y6 (PIN #6) CONA RECEIVE L
 ***/(#Y5 (PIN #5) CONA TRANSMIT L
 ****/(#Y4 (PIN #4) CONA LOAD MODEM PSW L
 *****/(#Y3 (PIN #3) CONA LOAD L CLK PSW L
 *****/(#Y2 (PIN #2) CONG SP WRITE L
 *****/(#Y1 (PIN #1) CONG LOAD PSW L

OCTAL ADDRESS
 DECIMAL ADDRESS

EBCBA

DATA

000 0
 001 1
 002 2
 003 3
 004 4
 005 5
 006 6
 007 7
 010 8
 011 9
 012 10
 013 11
 014 12
 015 13
 016 14
 017 15
 020 16
 021 17
 022 18
 023 19
 024 20
 025 21
 026 22
 027 23
 030 24
 031 25
 032 26
 033 27
 034 28
 035 29
 036 30
 037 31

00000 11111111
 00001 11111111
 00010 11111111
 00011 11111111
 00100 01111110
 00101 11111111
 00110 01111011
 00111 11111111
 01000 00111101
 01001 10111111
 01010 01111111
 01011 11111111
 01100 11111111
 01101 11111111
 01110 01111111
 01111 11111111
 10000 01010111
 10001 11011111
 10010 01100111
 10011 11101111
 10100 01011111
 10101 11011111
 10110 01101111
 10111 11101111
 11000 11111111
 11001 11111111
 11010 11111111
 11011 11111111
 11100 11111111
 11101 11111111
 11110 11111111
 11111 11111111

OCTAL DATA

377
 377
 377
 377
 176
 377
 173
 377
 075
 277
 177
 377
 377
 377
 177
 377
 127
 337
 147
 357
 137
 337
 157
 357
 377
 377
 377
 377
 377
 377
 377

PSW ,TRAN OUT BA=177776
 PSW ,TRAN OUT, BAR
 LCLK ,TRANOUT
 LCLK ,TRANOUT, BAR
 GR<R0|R17> ,TRANOUT RA=1777XX
 GR<R0|R17> ,TRANOUT, BAR
 ODD BYTE (LCLK/TK/TP)

SWR ,TRANOUT BA=177590
 SWR ,TRANOUT, BAR
 TKS ,TRANOUT BA=177560
 TKS ,TRANOUT, BAR
 TPB ,TRANOUT BA=177564
 TPB ,TRANOUT, BAR
 TKB ,TRANOUT BA=177562
 TKB ,TRANOUT, BAR
 TPB ,TRANOUT BA=177566
 TPB ,TRANOUT, BAR

*****(A(PIN #10) IS CONA TRAN OUT L
 *****(B(PIN #11) IS Y3 OF F025
 ***(C(PIN #12) IS Y2 OF F025
 *(D(PIN #13) IS Y1 OF F025
 /(E(PIN #14) IS Y4 OF F025

4
3

```

/( =Y8 (PIN #9) CONA ENAB L CLK PSW L
*/( =Y7 (PIN #7) CONA INT TRAN SYNC L
**/( =Y6 (PIN #6) CONA ENAB ALU L
***/( =Y5 (PIN #5) CONA ENAB MODEM PSW L
****/( =Y4 (PIN #4) CONA ENAB SWITCH REG L
*****/( =Y3 (PIN #3) CONG ENAB SPL L
*****/( =Y2 (PIN #2) CONG ENAB SPR L
*****/( =Y1 (PIN #1) CONG ENAB PSW L
*****
OCTAL      DATA
ADDRESS    DATA
DECIMAL    DATA
ADDRESS    DATA
000         0      00000 11111111 377
001         1      00001 11111111 377
002         2      00010 11111111 377
003         3      00011 11111111 377
004         4      00100 10011110 236
005         5      00101 11111111 377
006         6      00110 00111111 077
007         7      00111 11111111 377
010         8      01000 10011001 231
011         9      01001 11111111 377
012        10      01010 10111111 277
013        11      01011 11111111 377
014        12      01100 11111111 377
015        13      01101 11111111 377
016        14      01110 10010111 227
017        15      01111 11111111 377
020        16      10000 10001111 217
021        17      10001 11111111 377
022        18      10010 10001111 217
023        19      10011 11111111 377
024        20      10100 10011111 237
025        21      10101 11111111 377
026        22      10110 10011111 237
027        23      10111 11111111 377
030        24      11000 11111111 377
031        25      11001 11111111 377
032        26      11010 11111111 377
033        27      11011 11111111 377
034        28      11100 11111111 377
035        29      11101 11111111 377
036        30      11110 11111111 377
037        31      11111 11111111 377
*****
****/( A(PIN #10) IS CONA TRAN IN L
****/( B(PIN #11) IS Y3 OF F025
****/( C(PIN #12) IS Y2 OF F025
****/( D(PIN #13) IS Y1 OF F025
****/( E(PIN #14) IS Y4 OF F025

```

```

PSW ,TRANIN BA=177776
PSW ,TRANIN,BA
LCLK ,TRANIN BA=177546
LCLK ,TRANIN,BA
GEN REG ,TRANIN BA=1777XX
GEN REG ,TRANIN,BA
ODD BYTE ADDRESS (LCLK/TK/TP)

SWR ,TRANIN BA=177570
SWR ,TRANIN,BA
TKS ,TRANIN BA=177560
TKS ,TRANIN,BA
TPS ,TRANIN BA=177564
TPS ,TRANIN,BA
TKB ,TRANIN BA=177562
TKB ,TRANIN,BA
TPB ,TRANIN BA=177566
TPB ,TRANIN,BA

```

A13A1

27-JUL-72

*3-A13A1

ROM LISTING #7261-8 REV.A

```

/( #Y8 (PIN #9)
*/( #Y7 (PIN #7) CONE LINE CLOCK SER L
**/( #Y6 (PIN #6) CONE STACK FLOW L
***/( #Y5 (PIN #5) CONE PWR FAIL SER L
****/( #Y4 (PIN #4) CONE RCD SER L
*****/( #Y3 (PIN #3) CONE XMIT SER L
*****/( #Y2 (PIN #2)
*****/( #Y1 (PIN #1)

```

OCTAL ADDRESS	DECIMAL ADDRESS	EDCBA	OCTAL DATA	
000	0	00000	1111111	377
001	1	00001	1111111	377
002	2	00010	1111111	377
003	3	00011	1111111	377
004	4	00100	1111111	377
005	5	00101	1111111	377
006	6	00110	1111111	377
007	7	00111	1111111	377
010	8	01000	1111111	377
011	9	01001	1111111	377
012	10	01010	1110111	367 UART RCD INT MPC=64
013	11	01011	1111111	377
014	12	01100	1111111	377
015	13	01101	1111111	377
016	14	01110	1111011	373 UART XMIT INT MPC=60
017	15	01111	1111111	377
020	16	10000	1111111	377
021	17	10001	1111111	377
022	18	10010	1101111	337 ERT=1A STACK FLOW MPC=46
023	19	10011	1111111	377
024	20	10100	1110111	357 PWR FAIL MPC=43
025	21	10101	1111111	377
026	22	10110	1011111	277 LINE CLK INT MPC=42
027	23	10111	1111111	377
030	24	11000	1111111	377
031	25	11001	1111111	377
032	26	11010	1111111	377
033	27	11011	1111111	377
034	28	11100	1111111	377
035	29	11101	1111111	377
036	30	11110	1111111	377
037	31	11111	1111111	377

```

*****
****/( A(PIN #10) IS CONH RUN GND L
***/( B(PIN #11) IS CONF MPC 00 L
**/( C(PIN #12) IS CONF MPC 02 L
*/( D(PIN #13) IS CONF MPC 01 L
/( E(PIN #14) IS CONF MPC 04 L

```

14
5

```

/ ( =Y8 (PIN #8) CONF MPC B5 L
*/ ( =Y7 (PIN #7) CONF EXAM SW L
**/ ( =Y6 (PIN #6) CONF DEP SW L
***/ ( =Y5 (PIN #5) CONF MPC B0 L
****/ ( =Y4 (PIN #4) CONF MPC B4 L
*****/ ( =Y3 (PIN #3) CONF MPC B1 L
*****/ ( =Y2 (PIN #2) CONF MPC B2 L
******/ ( =Y1 (PIN #1) CONF MPC B3 L
*****
OCTAL
ADDRESS 0000 0001 0002 0003 0004 0005 0006 0007 0010 0011 0012 0013 0014 0015 0016 0017 0020 0021 0022 0023 0024 0025 0026 0027 0030 0031 0032 0033 0034 0035 0036 0037
DECIMAL
ADDRESS 0 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
EBCDIC
00000 1111000 1111001 1111010 1111011 1111100 11001010 10101000 11101110 1111000 1111001 11101011 11101011 10111011 11001010 10101100 1111000 1111000 1111001 1111011 11011011 11011011 11011010 10101000 11101110 11000000000 110010000000 110100000000 110110000000 111000000000 111010000000 111100000000 111110000000
OCTAL
0000 0001 0002 0003 0004 0005 0006 0007 0010 0011 0012 0013 0014 0015 0016 0017 0020 0021 0022 0023 0024 0025 0026 0027 0030 0031 0032 0033 0034 0035 0036 0037
CONTINUE
TWO SW =CONF,DEP
TWO SW EXAM,CONT
TWO SW LOAD,CONT
NO SW
DEP SW1 GOTO 313
EXAM GOTO TO 317
LOAD GOTO TO 311
CONT=CLR EXAM
TWO SW =CONF,DEP
TWO SW EXAM,CONT
TWO SW LOAD,CONT
NO SW 1ST EXAM
DEP SW1
EXAM AND 1ST EXAM 323
LOAD GOTO 311
CONT=CLR DEP
TWO SW =CONF,DEP
TWO SW EXAM,CONT
TWO SW LOAD,CONT
NO SW 1ST DEP
DEP SW2 GOTO 312
EXAM,1ST DEP 317
LOAD GOTO 311
****
****/ ( A(PIN #10) IS CONE LOAD (1)L ,AND, DEP (1)L ,BAR
***/ ( B(PIN #11) IS CONE LOAD (1)L ,AND, EXAM (1)L ,BAR
**/ ( C(PIN #12) IS CONE CONF (1)L
*/ ( D(PIN #13) IS CONE 1ST EXAM (1)H
/ ( E(PIN #14) IS CONE 1ST DEP (1)H

```


7 05

```

OCTAL ADDRESS
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
HCPDCDBA
A1000000
6100000
0100000
01000010
01000011
010000100
010000101
010000110
010000111
0100001000
0100001001
0100001010
0100001011
0100001100
0100001101
0100001110
0100001111
010010000
010010001
010010010
010010011
010010100
010010101
010010110
010010111
01001000
01001001
01001010
01001011
01001100
01001101
01001110
01001111
01001000
01001001
01001010
01001011
01001100
01001101
01001110
01001111
    
```

```

// SY4 (PIN # 9) CONC SET 00 04 L
// SY8 (PIN #30) CONC SET 00 06 L
// SY2 (PIN #21) CONC SET 00 05 L
// SY1 (PIN #22) CONC SET 00 04 L
***
DATA
007
013
007
017
007
013
007
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
017
007
013
    
```

7 cont

7 cont

```

147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
LCLK
LCLK
LCLK
0111
1011
0111
1111
0111
1011
1101
0111
1101
1101
0111
1101
1110
0111
1011
1111
0111
1011
1111
0111
1111
1011
0111
1111
1011
1101
0111
1101
0111
1101
0111
1101
1101
0111
1101
1101
0111
1101
0111
1101
0111
1101
0111
1101
0111
1101
0111
1101
0111
1101
    
```

```

***// A (PIN #25) IS CONC BR 07 (1) L
***// B (PIN #06) IS CONC BR 06 (1) L
***// C (PIN #07) IS CONC LCLK INT L
***// D (PIN #04) IS CONC BR 05 (1) L
***// E (PIN #03) IS CONC BR 04 (1) L
***// F (PIN #02) IS DPE PSW 07 (0) H
***// G (PIN #01) IS DPE PSW 06 (0) H
// H (PIN #15) IS DPE PSW 05 (0) H
    
```

Handwritten: 8

/(0Y4 (PIN # 0) CONC SET 06 07 L
 /* 0Y2 (PIN #0) CONC SET 06 06 L
 /* 0Y1 (PIN #1) CONC SET 06 05 L
 /* 0Y0 (PIN #2) CONC SET 06 04 L

OCTAL ADDRESS	HEX ADDRESS	HEXFCDBA	OCTAL DATA
200	1000000	0100	007
201	1000001	0101	007
202	1000002	0102	007
203	1000003	0103	007
204	1000004	0104	007
205	1000005	0105	007
206	1000006	0106	007
207	1000007	0107	007
210	1000010	0110	007
211	1000011	0111	007
212	1000012	0112	007
213	1000013	0113	007
214	1000014	0114	007
215	1000015	0115	007
216	1000016	0116	007
217	1000017	0117	007
218	1000018	0118	007
219	1000019	0119	007
220	1000020	0120	007
221	1000021	0121	007
222	1000022	0122	007
223	1000023	0123	007
224	1000024	0124	007
225	1000025	0125	007
226	1000026	0126	007
227	1000027	0127	007
230	1000030	0130	007
231	1000031	0131	007
232	1000032	0132	007
233	1000033	0133	007
234	1000034	0134	007
235	1000035	0135	007
236	1000036	0136	007
237	1000037	0137	007

240	10100000	0111	007
241	10100001	1011	013
242	10100010	0111	007
243	10100011	1111	017
244	10100100	0111	007
245	10100101	1011	013
246	10100110	0111	007
247	10100111	1101	015
250	10101000	1111	007
251	10101001	1011	013
252	10101010	0111	007
253	10101011	1111	017
254	10101100	0111	007
255	10101101	1011	013
256	10101110	0111	007
257	10101111	1110	014
260	10110000	0111	007
261	10110001	1011	013
262	10110010	0111	007
263	10110011	1111	017
264	10110100	0111	007
265	10110101	1011	013
266	10110110	0111	007
267	10110111	1101	015
270	10111000	0111	007
271	10111001	1011	013
272	10111010	0111	007
273	10111011	1111	017
274	10111100	0111	007
275	10111101	1011	013
276	10111110	0111	007
277	10111111	1111	017

```

*****
*****/( AIPIN #09) IS CONC BR 07 (1)L
*****/( BIPIN #06) IS CONC BR 06 (1)L
*****/( CIPIN #07) IS CONC LCLK INT L
*****/( DIPIN #04) IS CONC BR 05 (1)L
*****/( FIPIN #03) IS CONC BR 04 (1)L
*****/( PIPIN #02) IS OPE PSW 07 (0)M
*****/( QIPIN #01) IS OPE PSW 06 (0)M
*****/( WIPIN #15) IS OPE PSW 05 (0)M

```

Handwritten: 8 CARD

AB2A2

27 JUL 72

230AB2A2

ROM LISTING M7261-8 REV. A

```

OCTAL DECIMAL
ADDRESS ADDRESS          HGFCDCBA
00E 0 00000000
001 1 00000001
002 2 00000010
003 3 00000011
004 4 000000100
005 5 00000101
006 6 00000110
007 7 00000111
010 8 00001000
011 9 00001001
012 10 00001010
013 11 00001011
014 12 00001100
015 13 00001101
016 14 00001110
017 15 00001111
020 16 00010000
021 17 00010001
022 18 00010010
023 19 00010011
024 20 00010100
025 21 00010101
026 22 00010110
027 23 00010111
030 24 00011000
031 25 00011001
032 26 00011010
033 27 00011011
034 28 00011100
035 29 00011101
036 30 00011110
037 31 00011111

```

```

// NY4 (PIN # 9) V4
// NY3 (PIN #10) V3
// NY2 (PIN #11) V2
// NY1 (PIN #12) V1
****
DATA
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000
000 000

```

```

040 00100000
041 00100001
042 00100010
043 00100011
044 00100100
045 00100101
046 00100110
047 00100111
050 00101000
051 00101001
052 00101010
053 00101011
054 00101100
055 00101101
056 00101110
057 00101111
060 00110000
061 00110001
062 00110010
063 00110011
064 00110100
065 00110101
066 00110110
067 00110111
070 00111000
071 00111001
072 00111010
073 00111011
074 00111100
075 00111101
076 00111110
077 00111111

```

```

*****
*****// (PIN #25) IS CONA BA 02 (1)H
*****// (PIN #76) IS CONA BA 71 (1)H
*****// (PIN #07) IS CONA BA 05 (1)H
*****// (PIN #04) IS CONA BA 03 (1)H
*****// (PIN #03) IS CONA BA 04 (1)H
*****// (PIN #02) IS CONA BA 05 (1)H
*****// (PIN #01) IS CONA BA 07 (1)H
*****// (PIN #15) IS CONA BA 06 (1)H

```


M7261-8 REV. A

OCTAL ADDRESS	DECIMAL ADDRESS	HEXEDCBA	DATA	REG
300	192	11000000	001	R0
301	193	11000001	001	R2
302	194	11000010	001	R4
303	195	11000011	001	R6
304	196	11000100	001	R1
305	197	11000101	001	R5
306	198	11000110	001	R3
307	199	11000111	001	R7
310	202	11001000	001	R10
311	203	11001001	001	R14
312	204	11001010	001	R12
313	205	11001011	001	R16
314	206	11001100	001	R11
315	207	11001101	001	R13
316	208	11001110	001	R15
317	209	11001111	001	R17
320	212	11010000	000	
321	213	11010001	000	
322	214	11010010	000	
323	215	11010011	000	
324	216	11010100	000	
325	217	11010101	000	
326	218	11010110	000	
327	219	11010111	000	
330	222	11011000	000	
331	223	11011001	000	
332	224	11011010	000	
333	225	11011011	000	
334	226	11011100	000	
335	227	11011101	000	
336	228	11011110	000	
337	229	11011111	000	

// (B (PIN # 9) Y4
 // (B (PIN # 5) Y3
 // (B (PIN # 11) Y2
 // (B (PIN # 2) Y1
 // (B (PIN # 2) Y1

REG R0
 REG R2
 REG R4
 REG R6
 REG R1
 REG R5
 REG R3
 REG R7
 REG R10
 REG R14
 REG R12
 REG R16
 REG R11
 REG R13
 REG R15
 REG R17


 13


 13

OCTAL ADDRESS	DECIMAL ADDRESS	HEXEDCBA	DATA	REG
340	224	11100000	000	
341	225	11100001	000	
342	226	11100010	000	
343	227	11100011	000	
344	228	11100100	000	
345	229	11100101	000	
346	230	11100110	000	
347	231	11100111	000	
350	232	11101000	000	
351	233	11101001	000	
352	234	11101010	000	
353	235	11101011	000	
354	236	11101100	000	
355	237	11101101	000	
356	238	11101110	000	
357	239	11101111	000	
360	240	11110000	000	
361	241	11110001	000	
362	242	11110010	000	
363	243	11110011	000	
364	244	11110100	000	
365	245	11110101	000	
366	246	11110110	000	
367	247	11110111	000	
370	248	11111000	000	
371	249	11111001	000	
372	250	11111010	000	
373	251	11111011	000	
374	252	11111100	000	
375	253	11111101	000	
376	254	11111110	000	
377	255	11111111	000	

 // (A (PIN # 25) IS CONA BA 02 (1) H
 // (B (PIN # 6) IS CONA BA 01 (1) H
 // (C (PIN # 7) IS CONA BA 08 (1) H
 // (D (PIN # 4) IS CONA BA 03 (1) H
 // (E (PIN # 3) IS CONA BA 04 (1) H
 // (F (PIN # 2) IS CONA BA 05 (1) H
 // (G (PIN # 1) IS CONA BA 07 (1) H

PSW

PSW (OCD BYTE)

// 0Y4 (PIN # 9) CONF MPC 04 L
// 0Y8 (PIN #10) CONF MPC 01 L
// 0Y2 (PIN #11) CONF MPC 02 L
// 0Y1 (PIN #12) CONF MPC 00 L

DATA

HEX ADDRESS	DECIMAL ADDRESS	HEX DATA
00E	0	00000000
00F	1	00000001
000	2	00000010
001	3	00000011
002	4	00000100
003	5	00000101
004	6	00000110
005	7	00000111
006	8	00001000
007	9	00001001
008	10	00001010
009	11	00001011
00A	12	00001100
00B	13	00001101
00C	14	00001110
00D	15	00001111
00E	16	00010000
00F	17	00010001
010	18	00010010
011	19	00010011
012	20	00010100
013	21	00010101
014	22	00010110
015	23	00010111
016	24	00011000
017	25	00011001
018	26	00011010
019	27	00011011
01A	28	00011100
01B	29	00011101
01C	30	00011110
01D	31	00011111

DATA

HEX ADDRESS	DECIMAL ADDRESS	HEX DATA
00E	0	00000000
00F	1	00000001
000	2	00000010
001	3	00000011
002	4	00000100
003	5	00000101
004	6	00000110
005	7	00000111
006	8	00001000
007	9	00001001
008	10	00001010
009	11	00001011
00A	12	00001100
00B	13	00001101
00C	14	00001110
00D	15	00001111
00E	16	00010000
00F	17	00010001
010	18	00010010
011	19	00010011
012	20	00010100
013	21	00010101
014	22	00010110
015	23	00010111
016	24	00011000
017	25	00011001
018	26	00011010
019	27	00011011
01A	28	00011100
01B	29	00011101
01C	30	00011110
01D	31	00011111

DATA

DATA

HEX ADDRESS	DECIMAL ADDRESS	HEX DATA
040	32	00100000
041	33	00100001
042	34	00100010
043	35	00100011
044	36	00100100
045	37	00100101
046	38	00100110
047	39	00100111
048	40	00101000
049	41	00101001
050	42	00101010
051	43	00101011
052	44	00101100
053	45	00101101
054	46	00101110
055	47	00101111
056	48	00110000
057	49	00110001
058	50	00110010
059	51	00110011
060	52	00110100
061	53	00110101
062	54	00110110
063	55	00110111
064	56	00111000
065	57	00111001
066	58	00111010
067	59	00111011
068	60	00111100
069	61	00111101
070	62	00111110
071	63	00111111

DATA

DATA

DATA

DECIMAL ADDRESS	HEX ADDRESS	HEX DATA
100	01000000	0100
101	01000001	0100
102	01000010	0100
103	01000011	0100
104	01000100	0100
105	01000101	0100
106	01000110	0100
107	01000111	0100
110	01000000	0100
111	01001001	0100
112	01001010	0100
113	01001011	0100
114	01001100	0100
115	01001101	0100
116	01001110	0100
117	01001111	0100
120	01010001	0100
121	01010000	0100
122	01010010	0100
123	01010011	0100
124	01010100	0100
125	01010101	0100
126	01010110	0100
127	01010111	0100
130	01011000	0100
131	01011001	0100
132	01011010	0100
133	01011011	0100
134	01011100	0100
135	01011101	0100
136	01011110	0100
137	01011111	0100

```

****
**** DATA
0100 014
0101 014
0102 014
0103 014
0104 014
0105 014
0106 014
0107 014
0110 014
0111 014
0112 014
0113 014
0114 014
0115 014
0116 014
0117 014
0120 014
0121 014
0122 014
0123 014
0124 014
0125 014
0126 014
0127 014
0130 014
0131 014
0132 014
0133 014
0134 014
0135 014
0136 014
0137 014
  
```

```

/(BY4 (PIN# 9) CONF MPC B4 L
/(BY8 (PIN#10) CONF MPC B1 L
**/(BY2 (PIN#11) CONF MPC B2 L
****/(BY1 (PIN#12) CONF MPC B3 L
  
```

```

**** OCTAL
  
```

HEX DATA

DECIMAL ADDRESS

DECIMAL ADDRESS	HEX ADDRESS	HEX DATA
140	01100000	014
141	01100001	014
142	01100010	014
143	01100011	014
144	01100100	014
145	01100101	014
146	01100110	014
147	01100111	014
151	01101000	014
151	01101001	014
152	01101010	014
153	01101011	014
154	01101100	014
155	01101101	014
156	01101110	014
157	01101111	014
160	01100000	014
161	01100001	014
162	01100010	014
163	01100011	014
164	01100100	014
165	01100101	014
166	01100110	014
167	01100111	014
170	01110000	014
171	01110001	014
172	01110010	014
173	01110011	014
174	01110100	014
175	01110101	014
176	01110110	014
177	01110111	014

HEX DATA

DECIMAL ADDRESS

```

****
****
****/(A(PIN#05) IS CONB STACKFLOW (1)L
****/(B(PIN#06) IS CONM PDMN SYNC (1)L
****/(C(PIN#07) IS CONI LCK INY (1)L
****/(D(PIN#04) IS COME STOP (1)L
****/(E(PIN#03) IS DPH RCD INY (1)L
****/(F(PIN#02) IS DPG XMTY INY (1)L
****/(H(PIN#01) IS DPE Y DEL (1)L
  
```

82-01-01

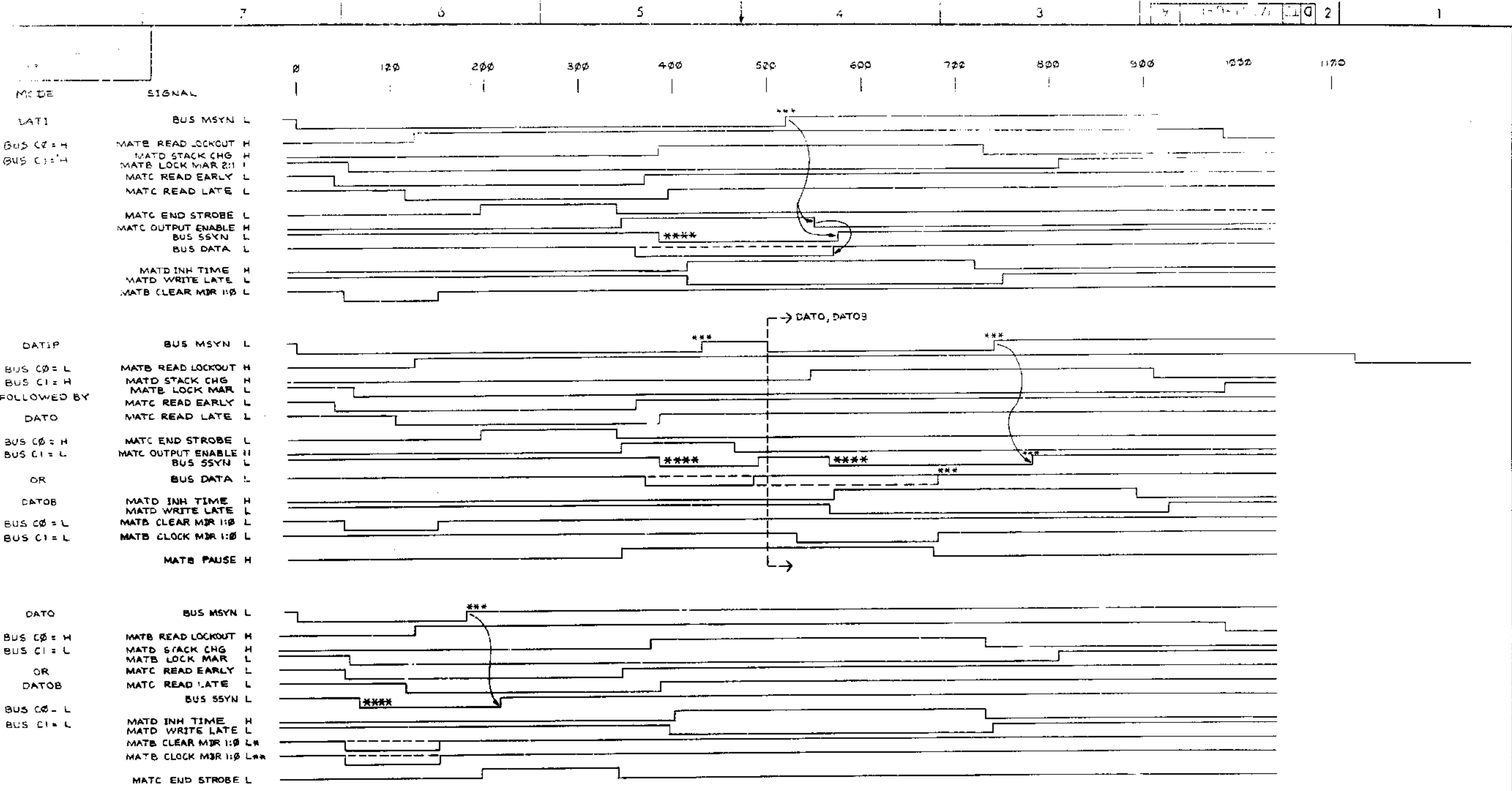
71 0Y4 (PIN # 9) CONF MPC 84 L
0/1 0Y8 (PIN #10) CONF MPC 81 L
0/1 0V2 (PIN #11) CONF MPC 82 L
0/1 0Y1 (PIN #12) CONF MPC 80 L

OCTAL ADDRESS	HEX ADDRESS	HEX DATA	DATA	OPCODE
300	192	1000000	011	STKFL
301	193	1100001	012	PHRF
302	194	1100010	011	STKFL
303	195	1100011	013	LCLK
304	196	1100100	012	STKFL
305	197	1100101	012	PHRF
306	198	1100110	011	STKFL
307	199	1100111	009	RCD
317	209	1101000	011	STKFL
311	201	1101001	012	PHRF
312	202	1101010	011	STKFL
313	203	1101011	013	LCLK
314	204	1101100	011	STKFL
315	205	1101101	012	PHRF
316	206	1101110	011	STKFL
317	207	1101111	009	RCD
320	200	1101000	011	STKFL
321	209	1101001	012	PHRF
322	210	1101010	011	STKFL
323	211	1101011	013	LCLK
324	212	1101100	011	STKFL
325	213	1101101	012	PHRF
326	214	1101110	011	STKFL
327	215	1101111	009	XMIT
330	216	1101100	011	STKFL
331	217	1101101	012	PHRF
332	218	1101110	011	STKFL
333	219	1101111	013	LCLK
334	220	1101100	011	STKFL
335	221	1101101	012	PHRF
336	222	1101110	011	STKFL
337	223	1101111	009	XMIT

~~17~~
17

340	224	1110000	1001	STKFL
341	225	1110001	1010	PHRF
342	226	1110010	1001	STKFL
343	227	1110011	1011	LCLK
344	228	1110100	1001	STKFL
345	229	1110101	1010	PHRF
346	230	1110110	1001	STKFL
347	231	1110111	1011	RCD
352	232	1110100	1001	STKFL
351	233	1110101	1010	PHRF
352	234	1110110	1001	STKFL
353	235	1110111	1011	LCLK
354	236	1110100	1001	STKFL
355	237	1110101	1010	PHRF
356	238	1110110	1001	STKFL
357	239	1110111	1011	RCD
360	240	1110000	1001	STKFL
361	241	1110001	1010	PHRF
362	242	1110010	1001	STKFL
363	243	1110011	1011	LCLK
364	244	1110100	1001	STKFL
365	245	1110101	1010	PHRF
366	246	1110110	1001	STKFL
367	247	1110111	1110	STOP
370	248	1111000	1110	STKFL
371	249	1111100	1001	STKFL

~~17~~
17



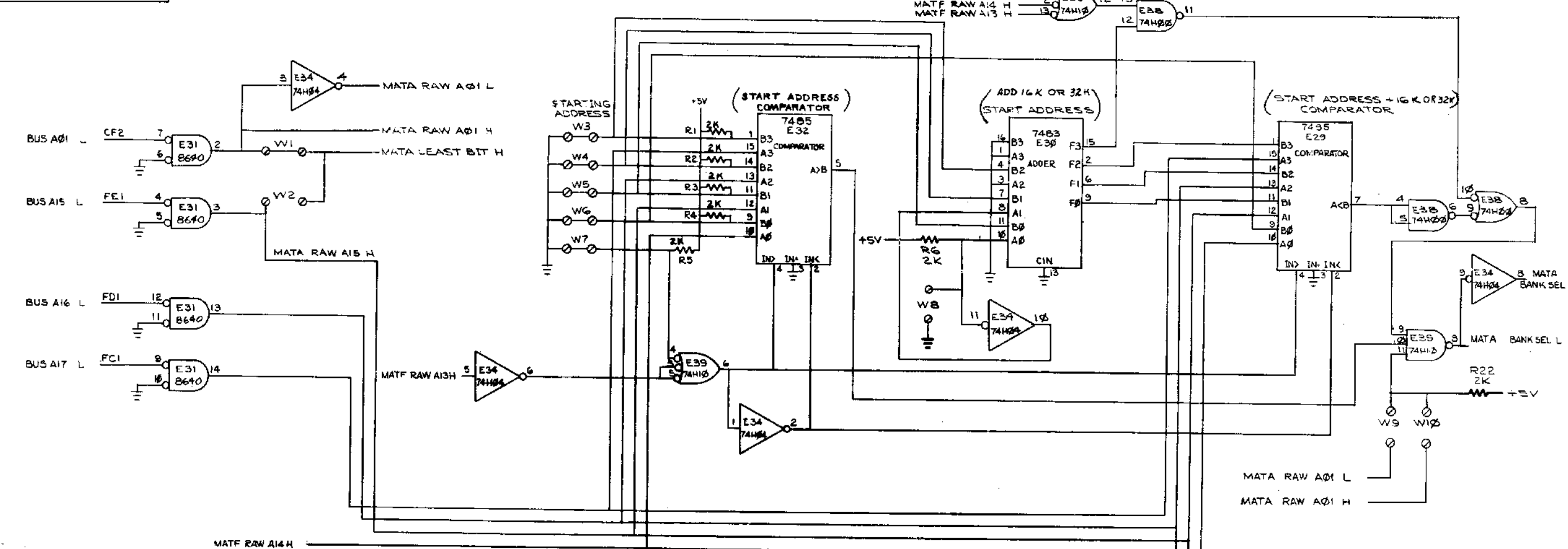
- NOTES:
- * IN THE DAT0B MODE CLEAR MDR ONLY OCCURS IN THE BYTE NOT BEING ADDRESSED.
 - ** IN THE DAT0B MODE CLOCK MDR ONLY OCCURS IN THE BYTE BEING ADDRESSED
 - *** ACTUAL TIME DEPENDS ON BUS AND PROCESSOR DELAYS.
 - **** IN PARITY SYSTEMS BUS SSYN WILL BE 20 NS LATER THAN SHOWN FOR DAT0-DAT0B
BUS MODES AND 150 NS LATER FOR DAT1-DAT1P MODES.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MFII-U				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN <i>[Signature]</i>	DATE 4-19-78	digital EQUIPMENT CORPORATION	
TOLERANCES	CHK'D <i>[Signature]</i>	DATE 4/30/78		
DECIMALS ANGLES	ENG <i>[Signature]</i>	DATE 5/25/78	TITLE MFII-U TIMING DIAGRAM (UNIBUS INTERFACE)	
.xxx ± .005 .xx ± .02 x ± .1	PROJ ENG <i>[Signature]</i>	DATE 5/23/78		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY #	PROD <i>[Signature]</i>	DATE 6/11/78	SIZE CODE D TD MFII-U-1	
MATERIAL	NEXT HIGHER ASSY.			
FINISH	B-DD-MFII-U	SCALE 1/1	NUMBER REV. A	
	SHEET 1 OF 1	DIST.		

D
C
A
B
MFII-U-1
D TD MFII-U-1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION.

DEVICE SELECTION



NOTE: INTERLEAVE CONTROL IS ACHIEVED AS FOLLOWS:

a) NON-INTERLEAVED
 W1 IN
 W2, W8, W9 + W10 OUT

b) INTERLEAVED
 W1 OUT
 W2 + W8 IN
 W8 IN - ONE MEMORY
 W10 OUT
 W9 OUT - THE OTHER MEMORY
 W10 IN

STARTING ADDRESS FOR THE COMBINED INTERLEAVED MEMORY IS THE SAME AS FOR THE NON-INTERLEAVED CASE (W3 THRU W7 MUST BE CUT THE SAME FOR BOTH INTERLEAVED MEMORIES) BUT THE INTERLEAVED MAX ADDRESS IS INCREASED BY 16 K (10000000).

0=IN 1=OUT

NON-INTERLEAVED START ADDRESS	W3	W4	W5	W6	W7	NON-INTERLEAVED MAX ADDRESS
000000 (0K)	0 IN	0 IN	0 IN	0 IN	0 IN	077776
020000 (4K)	0 IN	0 IN	0 IN	0 IN	0 IN	117776
040000 (8K)	0	0	0	1	0	137776
060000 (12K)	0	0	0	1	1	157776
100000 (16K)	0	0	1	0	0	177776
120000 (20K)	0	0	1	0	1	217776
140000 (24K)	0	0	1	1	0	237776
160000 (28K)	0	0	1	1	1	257776
200000 (32K)	0	1	0	0	0	277776
220000 (36K)	0	1	0	0	1	317776
240000 (40K)	0	1	0	1	0	337776
260000 (44K)	0	1	0	1	1	357776
300000 (48K)	0	1	1	0	0	377776
320000 (52K)	0	1	1	0	1	417776
340000 (56K)	0	1	1	1	0	437776
360000 (60K)	0	1	1	1	1	457776
400000 (64K)	1	0	0	0	0	477776

* THE MEMORY WILL NOT RESPOND TO BUS ADDRESSES BETWEEN 124-128K

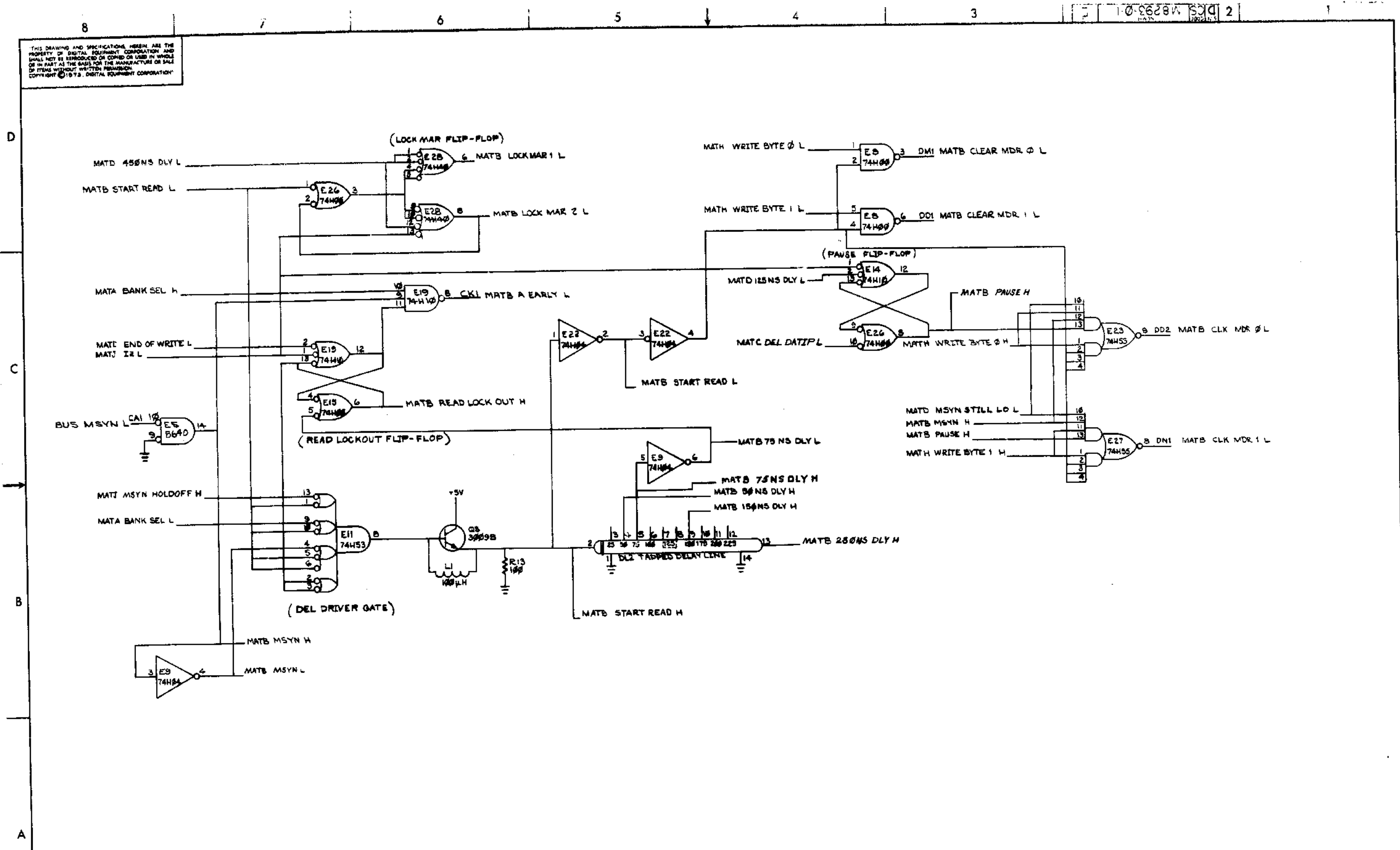
	W3	W4	W5	W6	W7	
420000 (68K)	0	0	0	0	1	517776
440000 (72K)	0	0	0	1	0	537776
460000 (76K)	1	0	0	1	1	557776
500000 (80K)	1	0	1	0	0	577776
520000 (84K)	1	0	1	0	1	617776
540000 (88K)	1	0	1	1	0	637776
560000 (92K)	1	0	1	1	1	657776
600000 (96K)	1	1	0	0	0	677776
620000 (100K)	1	1	0	0	1	717776
640000 (104K)	1	1	0	1	0	737776
660000 (108K)	1	1	0	1	1	757776
700000 (112K)	1	1	1	0	0	777776
720000 (116K)	1	1	1	0	1	797776
740000 (120K)	1	1	1	1	0	817776

* (Addresses 700000-740000 are marked with an asterisk in the original drawing)

DEVICE SELECTION LOGIC

REVISIONS		
CHK	CHANGE NO	REV.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1978, DIGITAL EQUIPMENT CORPORATION.

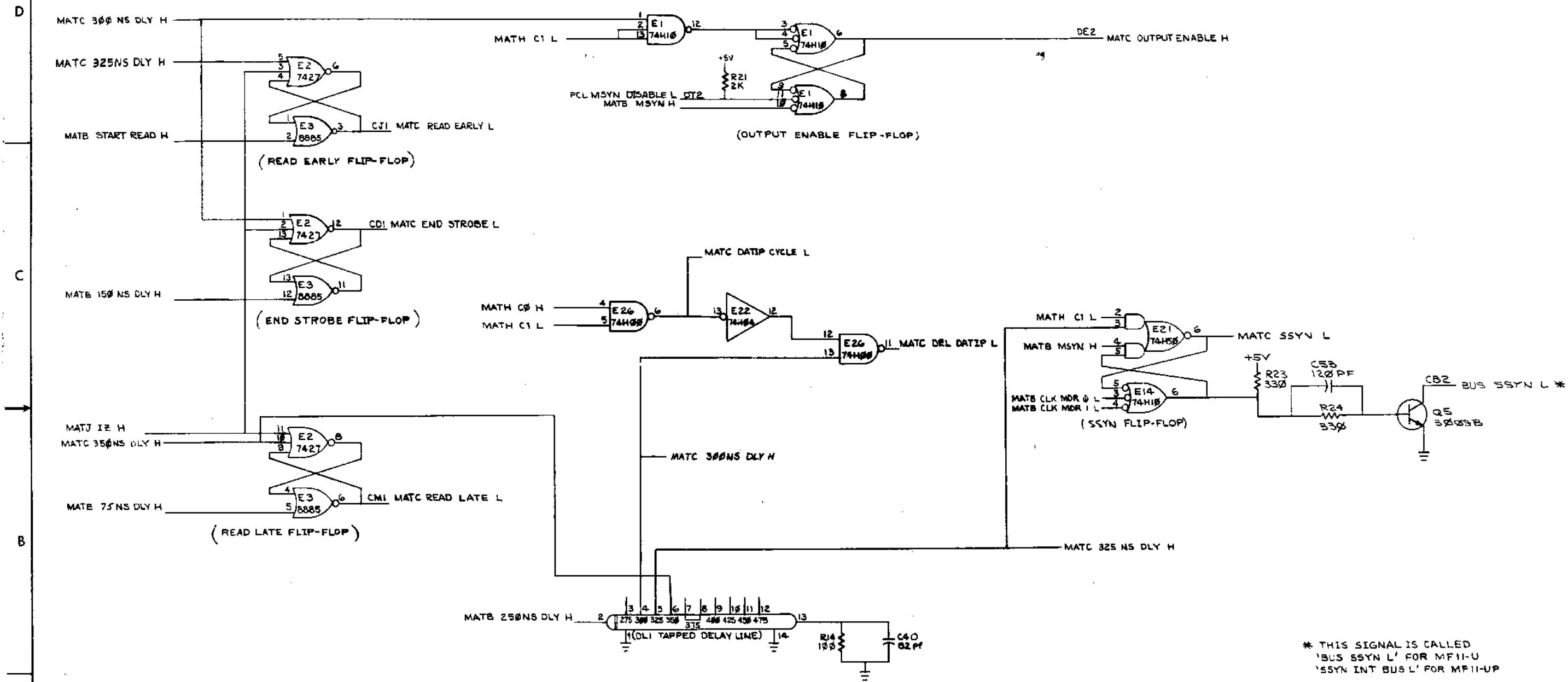


READ START TIMING

REVISIONS		
CHK	CHANGE NO	REV

TITLE	16K UNIBUS TIMING (MATE)	SIZE CODE	DCS	NUMBER	M8293-0-1	REV.	E
SCALE		SHEET	4	OF	10	DIST.	

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION.



* THIS SIGNAL IS CALLED 'BUS SSYN L' FOR MF11-U 'SSYN INT BUS L' FOR MF11-UP

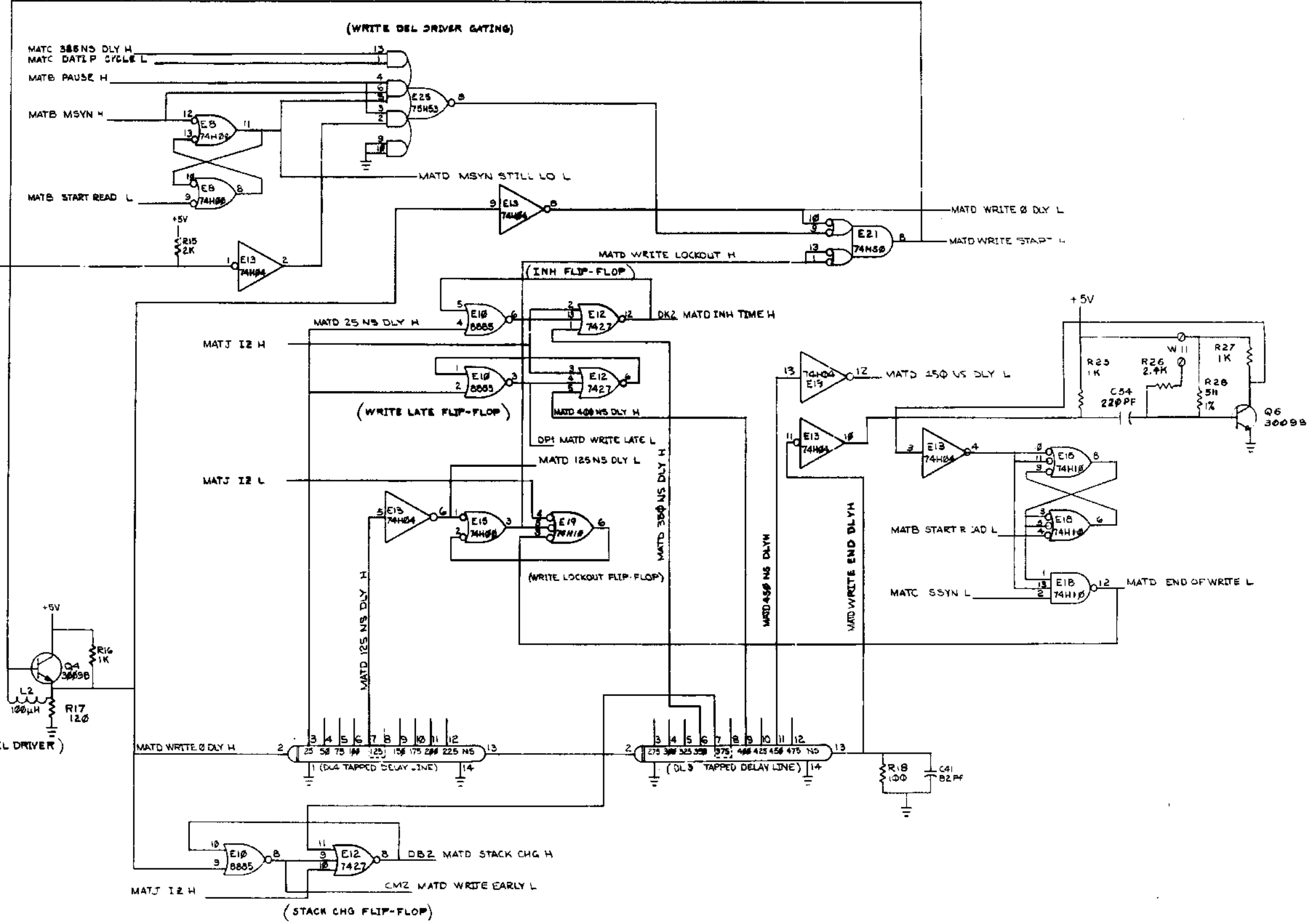
REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE/SCALE	NUMBER	REV.
16K UNIBUS TIMING (MATC)		D CS	M8293-0-1	E
SCALE	SHEET	OF	DIST.	
	5	10		

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION.

D
C
B
A

D
C
B
A



PC2 DATIP CLR PAUSE L CE2
ORIGINATES FROM M7259
PARITY CONTROL MODULE
(SHEET 3) VIA MFI-UP BACKPLANE

(WRITE DEL DRIVER)

(WRITE DEL DRIVER GATING)

(WRITE LATE FLIP-FLOP)

(INH FLIP-FLOP)

(WRITE LOCKOUT FLIP-FLOP)

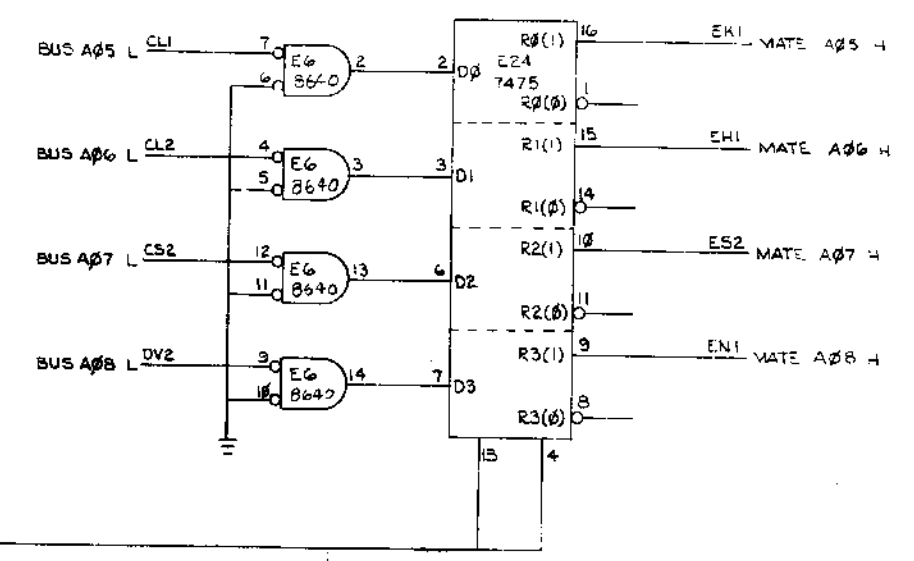
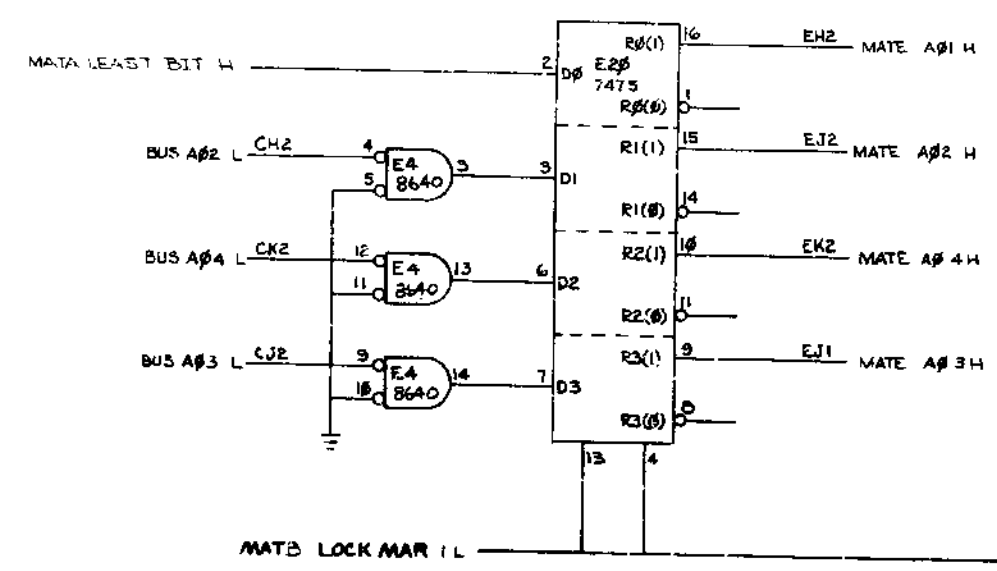
(STACK CHG FLIP-FLOP)

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
16K UNIBUS TIMING (MATD)		DCS	M8293-0-1	E
SCALE	SHEET	DIST.		
	6 OF 10			

WRITE TIMING

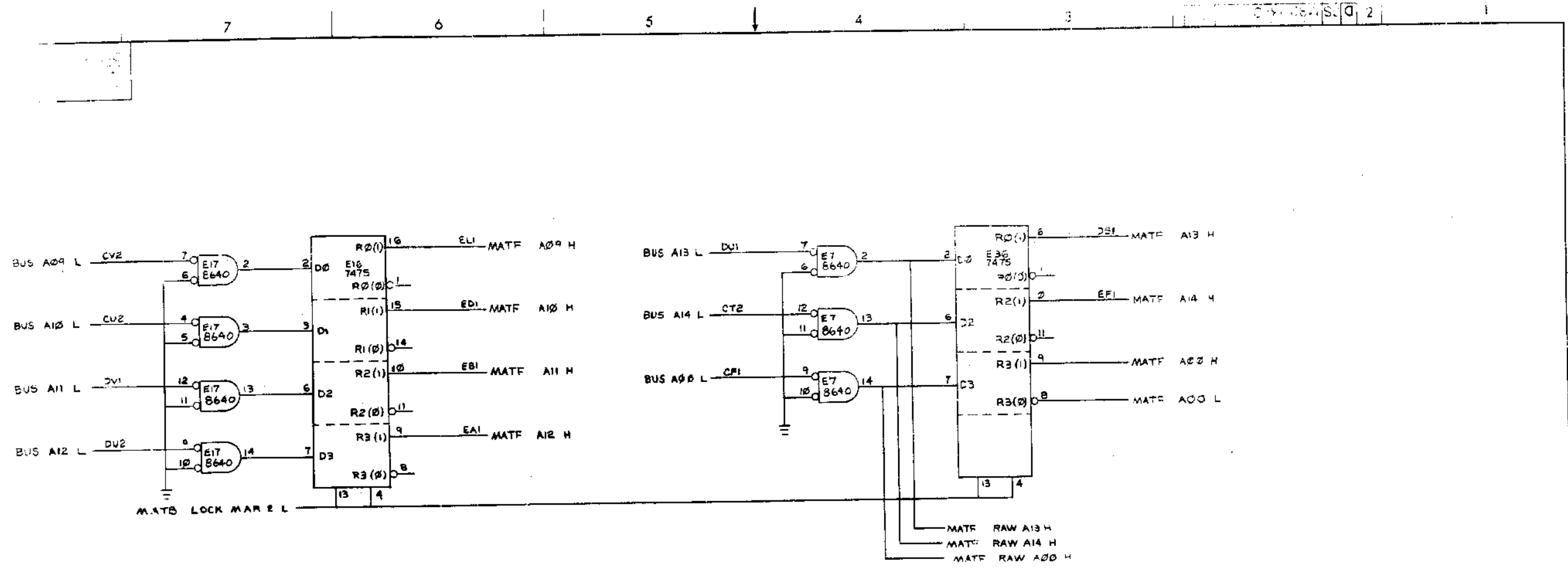
ALL INFORMATION HEREIN ARE THE PROPERTY OF THE UNITED STATES GOVERNMENT AND ARE TO BE RELEASED IN WHOLE OR IN PART TO ANY PERSON AT ANY TIME WITHOUT PERMISSION OF THE EQUIPMENT CORPORATION.

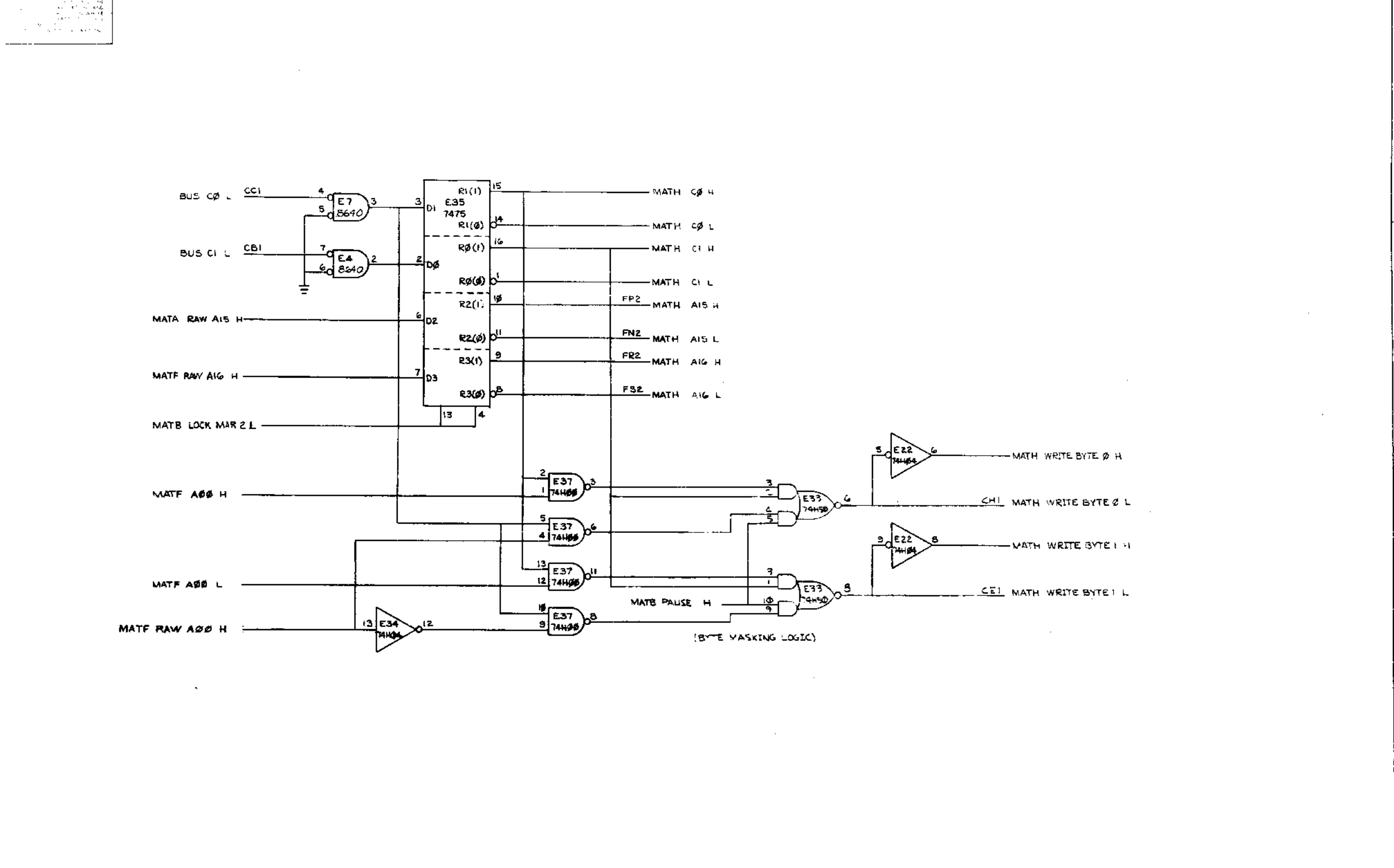


REV	057
-----	-----

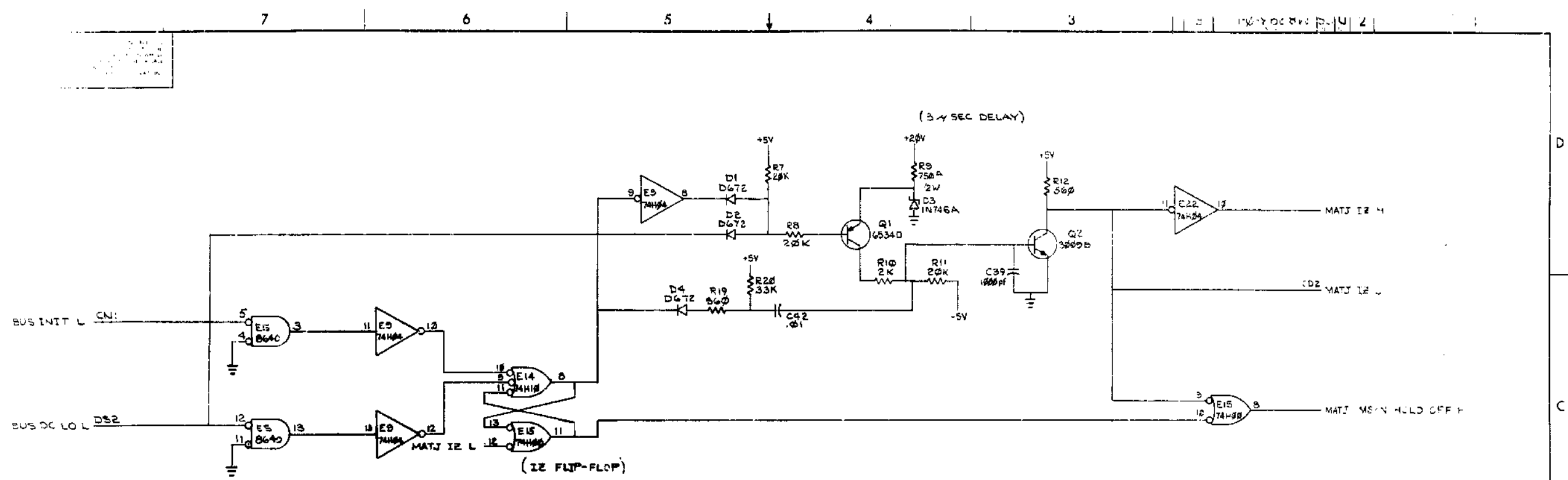
A01-A08 LATCHES		TITLE 16K UNIBUS TIMING		SIZE CODE	NUMBER	REV.
		(MATE)		DOS	M8293-01	E
CALL	SHEET	OF	DIST			
	7					

DOS M8293-01





REV	
REV	



D

C

B

A

D 63 V 6 2 3 0-1

INIT & DCLO INITIALIZING

TITLE	SIZE/COLE	NUMBER	REV.
16K UNIBUS TIMING (MATJ)	DCS	M8293-01	E
SCALE	SHEET / OF	DIST	

REV	
-----	--

7 6 5 4 3 2 1

PAGE REVISION CONTROL SHEET

PAGE REVISIONS										REMARKS
SN NO.	C	D	E	F	H	J	K	L	M	
1	C	D	E	F	H	J	K	L	M	
2	C	D	E	F	H	J	K	L	M	
3	C	D	E	F	H	J	K	L	M	
4	C	D	E	F	H	J	K	L	M	
5	C	D	E	F	H	J	K	L	M	
6	C	D	E	F	H	J	K	L	M	
7										
8										

FIRST USED ON OPTION/MODEL
MF1HJ & MF11-UP

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE
16K X-Y DRIVE

REV.	NUMBER	SIZE CODE
M	G235-0-1	B CS

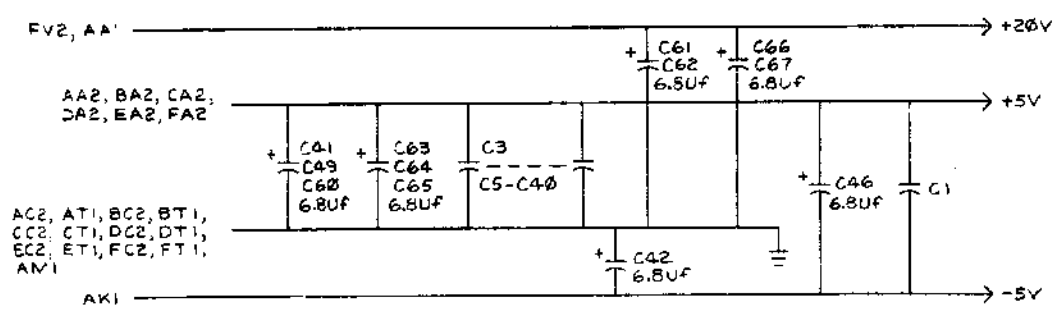
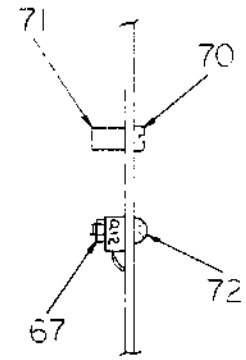
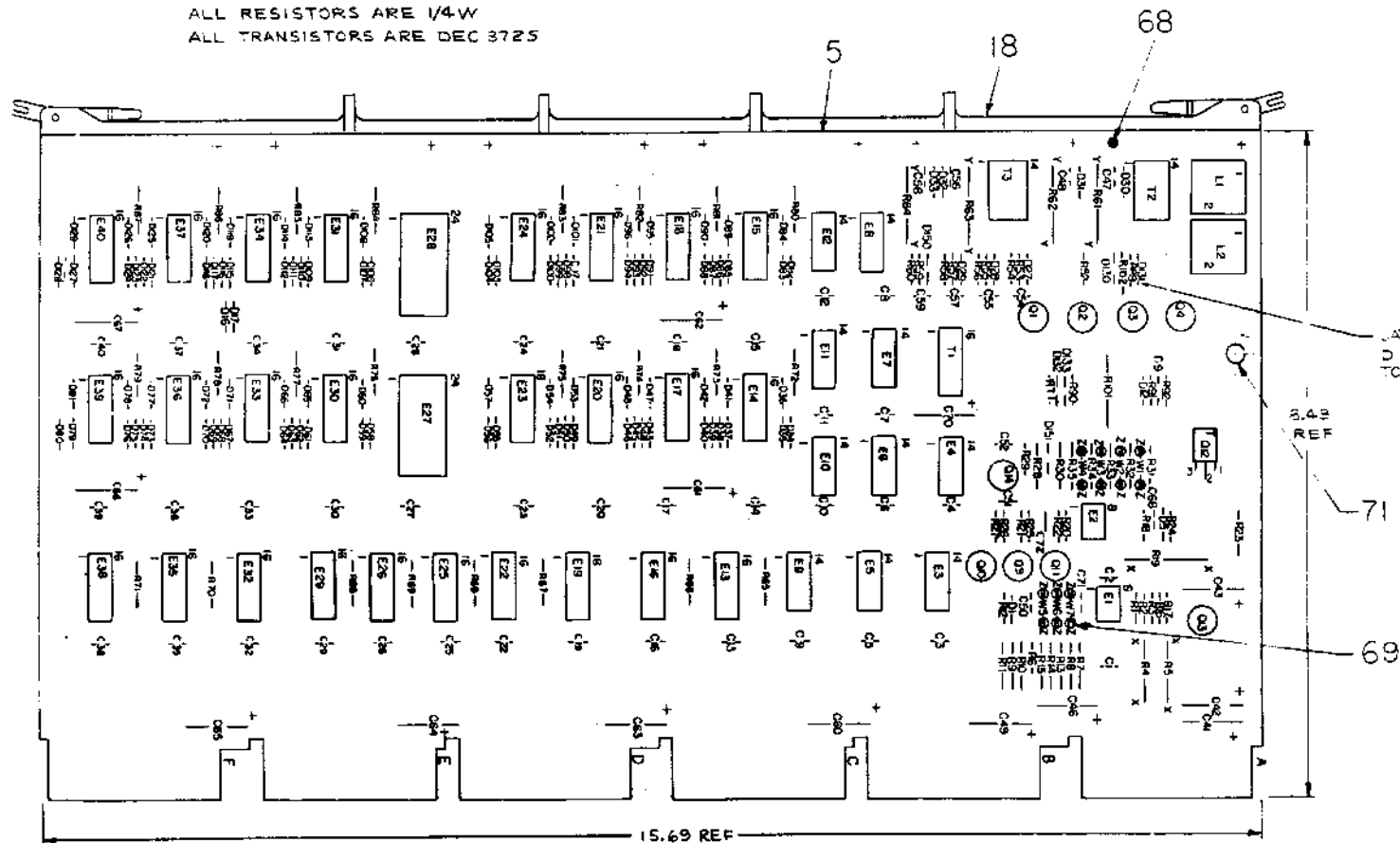
DRN.	DATE
<i>D. Valentini</i>	2/8/73
CHK'D.	DATE
<i>M. Chaud</i>	3/9/73
ENG.	DATE
<i>D. Valentini</i>	4/11/73
PROJ. ENG.	DATE
<i>D. Valentini</i>	4/11/73
PROD.	DATE
<i>D. Valentini</i>	4/11/73

NEXT HIGHER ASSY.
SCALE *1/4"*
SHEET 1 OF 6

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
COPYRIGHT © 1973 DIGITAL EQUIPMENT CORPORATION

NOTES:

1. * INDICATES NOT USED ON MF11-U & MF11-UP (2 PLACES).
2. ** INDICATES NOT USED ON MF11-U & MF11-UP, BUT ARE TIED TO UNUSED TERMINATORS ON THE 6114 MODULE, WHICH FORCES THEM TO +5V (5 PLACES).
3. 1 THERMISTOR LOCATED ON H217 STACK MODULE, 1 ON 6235
4. UNLESS OTHERWISE INDICATED;
 ALL DIODES ARE D672
 ALL CAPACITORS ARE .01 UF
 ALL RESISTORS ARE 1/4-W
 ALL TRANSISTORS ARE DEC 3725

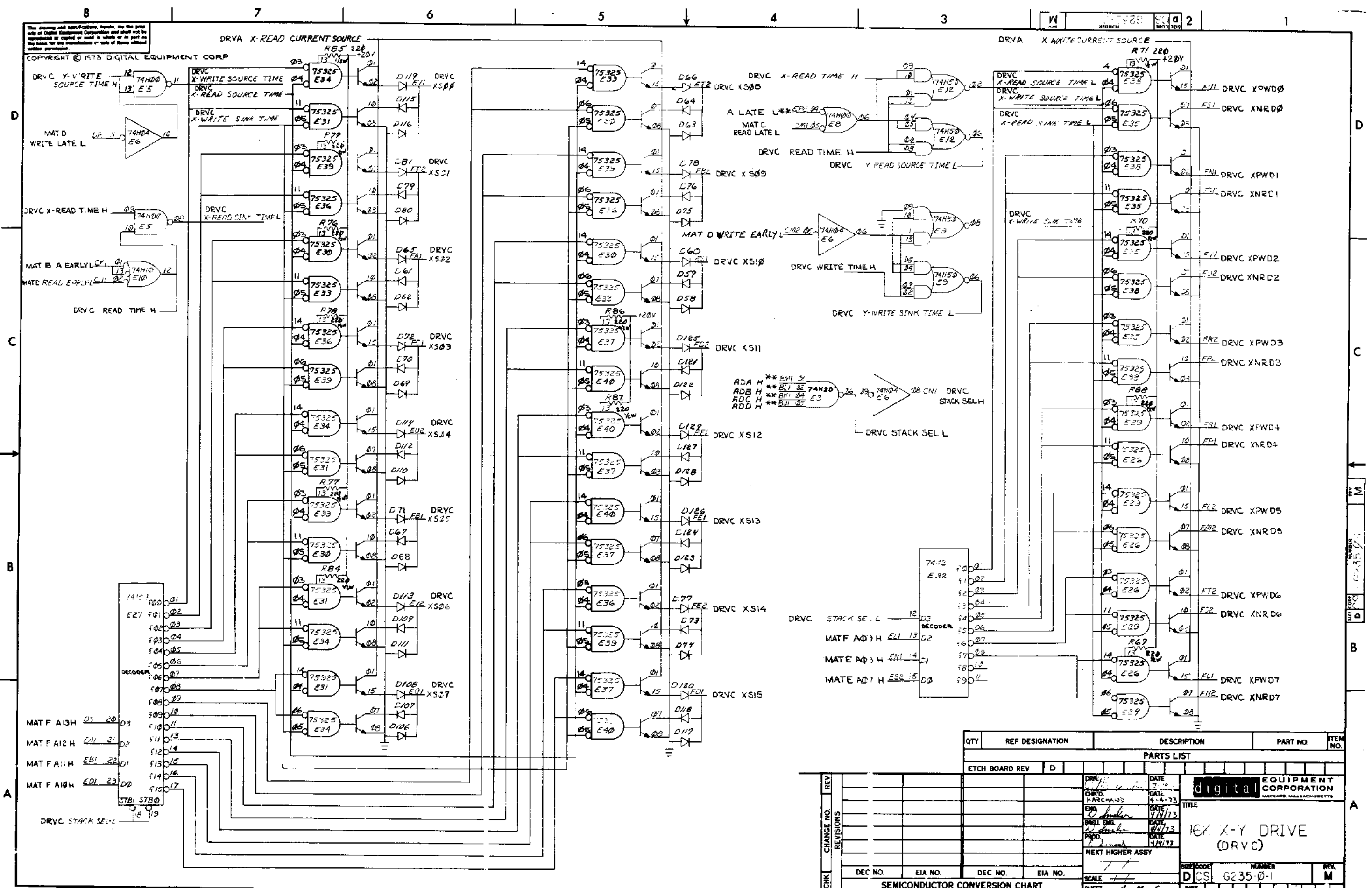


IC TYPE	GND	+5V	+20V
742	7	—	—
41	—	—	—
732E	—	9	16
742	8	16	—
7424	12	24	—

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

IC PIN LOCATIONS

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
FIRST USED ON OPTION MODEL: MF11-U & MF11-UP				
ETCH BOARD REV: D				
DRN	DATE	digital EQUIPMENT CORPORATION TITLE: ICK X-Y DRIVE SIZE CODE: JCS NUMBER: 6235-0-1 REV: M		
CHK'D	DATE			
ENG	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
NEXT HIGHER ASSY:				
DEC NO	EIA NO	DEC NO	EIA NO	SCALE
SEMICONDUCTOR CONVERSION CHART				
SHEET 2		OF 2		DIST



This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part as the basis for the manufacture of any items without written permission.

COPYRIGHT © 1973 DIGITAL EQUIPMENT CORP.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	ETCH BOARD REV D			
DRVC	75325	COMPARATOR		
DRVC	74100	INVERTER		
DRVC	74125	DECODER		
DRVC	74104	INVERTER		
DRVC	74105	INVERTER		
DRVC	74106	INVERTER		
DRVC	74107	INVERTER		
DRVC	74108	INVERTER		
DRVC	74109	INVERTER		
DRVC	74110	INVERTER		
DRVC	74111	INVERTER		
DRVC	74112	INVERTER		
DRVC	74113	INVERTER		
DRVC	74114	INVERTER		
DRVC	74115	INVERTER		
DRVC	74116	INVERTER		
DRVC	74117	INVERTER		
DRVC	74118	INVERTER		
DRVC	74119	INVERTER		
DRVC	74120	INVERTER		
DRVC	74121	INVERTER		
DRVC	74122	INVERTER		
DRVC	74123	INVERTER		
DRVC	74124	INVERTER		
DRVC	74125	INVERTER		
DRVC	74126	INVERTER		
DRVC	74127	INVERTER		
DRVC	74128	INVERTER		
DRVC	74129	INVERTER		
DRVC	74130	INVERTER		
DRVC	74131	INVERTER		
DRVC	74132	INVERTER		
DRVC	74133	INVERTER		
DRVC	74134	INVERTER		
DRVC	74135	INVERTER		
DRVC	74136	INVERTER		
DRVC	74137	INVERTER		
DRVC	74138	INVERTER		
DRVC	74139	INVERTER		
DRVC	74140	INVERTER		
DRVC	74141	INVERTER		
DRVC	74142	INVERTER		
DRVC	74143	INVERTER		
DRVC	74144	INVERTER		
DRVC	74145	INVERTER		
DRVC	74146	INVERTER		
DRVC	74147	INVERTER		
DRVC	74148	INVERTER		
DRVC	74149	INVERTER		
DRVC	74150	INVERTER		
DRVC	74151	INVERTER		
DRVC	74152	INVERTER		
DRVC	74153	INVERTER		
DRVC	74154	INVERTER		
DRVC	74155	INVERTER		
DRVC	74156	INVERTER		
DRVC	74157	INVERTER		
DRVC	74158	INVERTER		
DRVC	74159	INVERTER		
DRVC	74160	INVERTER		
DRVC	74161	INVERTER		
DRVC	74162	INVERTER		
DRVC	74163	INVERTER		
DRVC	74164	INVERTER		
DRVC	74165	INVERTER		
DRVC	74166	INVERTER		
DRVC	74167	INVERTER		
DRVC	74168	INVERTER		
DRVC	74169	INVERTER		
DRVC	74170	INVERTER		
DRVC	74171	INVERTER		
DRVC	74172	INVERTER		
DRVC	74173	INVERTER		
DRVC	74174	INVERTER		
DRVC	74175	INVERTER		
DRVC	74176	INVERTER		
DRVC	74177	INVERTER		
DRVC	74178	INVERTER		
DRVC	74179	INVERTER		
DRVC	74180	INVERTER		
DRVC	74181	INVERTER		
DRVC	74182	INVERTER		
DRVC	74183	INVERTER		
DRVC	74184	INVERTER		
DRVC	74185	INVERTER		
DRVC	74186	INVERTER		
DRVC	74187	INVERTER		
DRVC	74188	INVERTER		
DRVC	74189	INVERTER		
DRVC	74190	INVERTER		
DRVC	74191	INVERTER		
DRVC	74192	INVERTER		
DRVC	74193	INVERTER		
DRVC	74194	INVERTER		
DRVC	74195	INVERTER		
DRVC	74196	INVERTER		
DRVC	74197	INVERTER		
DRVC	74198	INVERTER		
DRVC	74199	INVERTER		
DRVC	74200	INVERTER		

digital EQUIPMENT CORPORATION
MAYFIELD, MASSACHUSETTS

16K X-Y DRIVE (DRVC)

SCALE: DCS
NUMBER: G235-0-1
REV: M

SEMICONDUCTOR CONVERSION CHART

CHK	CHANGE NO.	REV	DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE	SHEET	OF	TOTAL
								4	OF	6

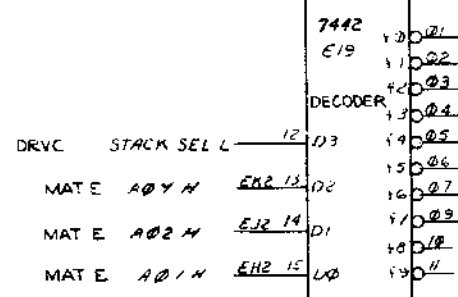
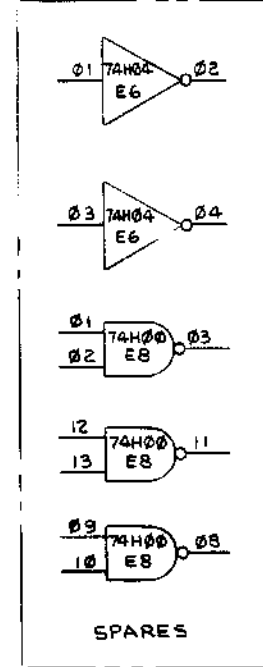
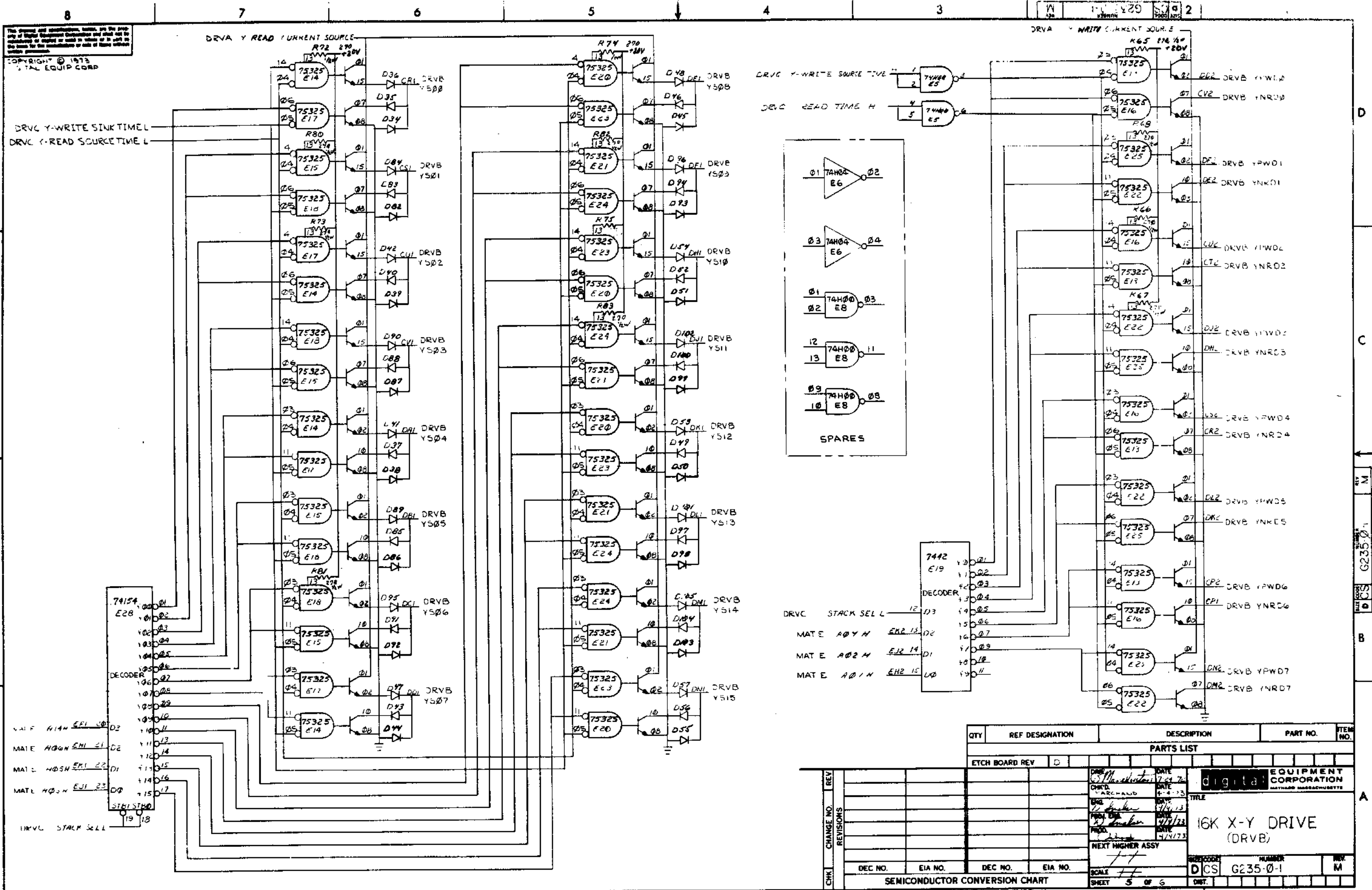
The drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied in whole or in part or the loan for the manufacture of parts of other than the original design.

COPYRIGHT © 1973
DIGITAL EQUIP CORP

DRVC Y-WRITE SINK TIME L
DRVC X-READ SOURCE TIME L

DRVA Y READ CURRENT SOURCE

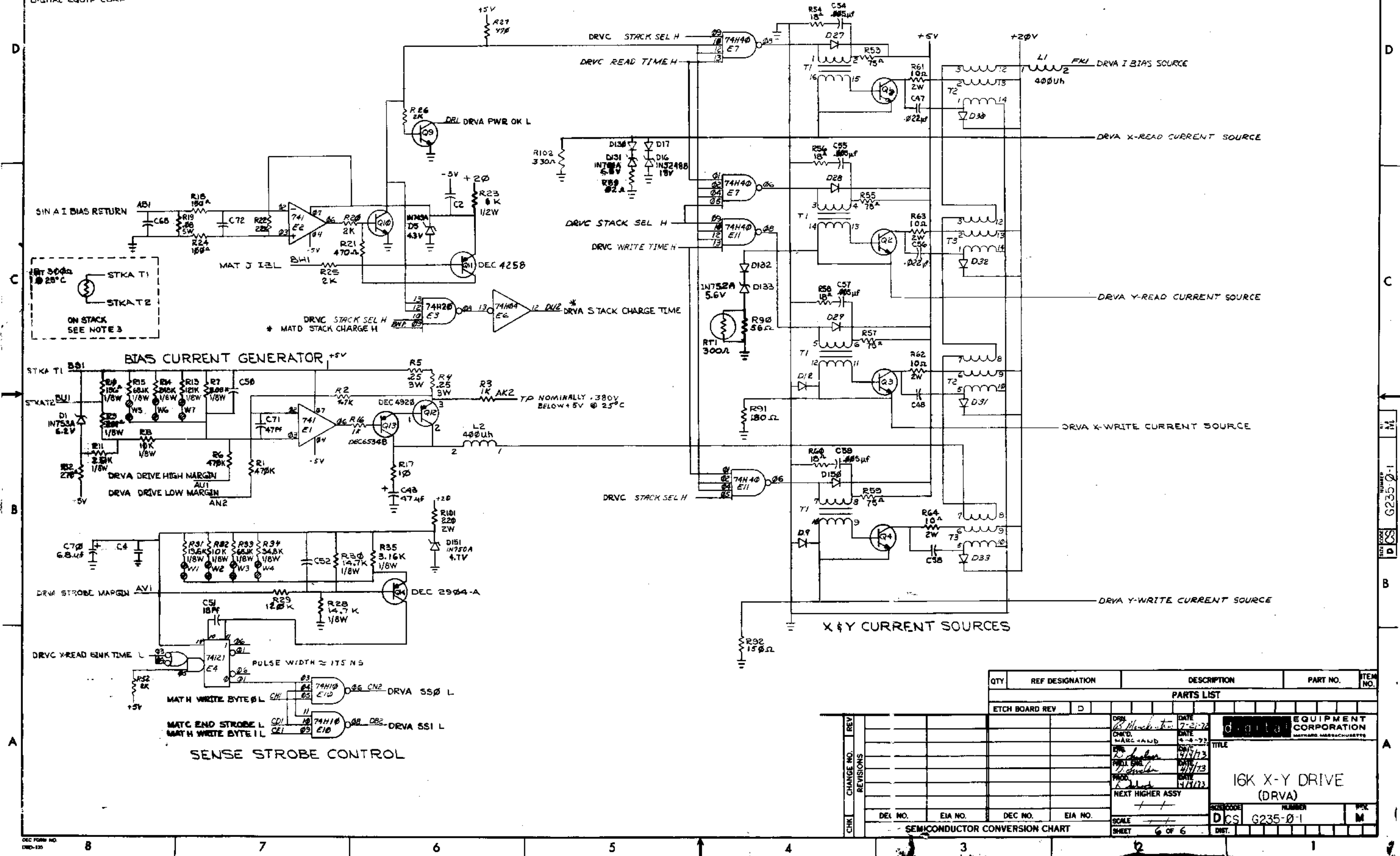
DRVA Y WRITE CURRENT SOURCE



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV <input type="checkbox"/>				
REV	CHANGE NO.	REVISIONS	DATE	BY
			7/29/73	CS
			8-2-73	CS
			11/13	CS
			1/17/73	CS
			4/2/73	CS
DEC NO.		EIA NO.	DEC NO.	EIA NO.
SCALE		NEXT HIGHER ASSY		REV. M
SHEET 5 OF 5		D CS G235-0-1		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of any of them without written permission.

COPYRIGHT © 1973
DIGITAL EQUIP CORP



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV D				
REV	CHANGE NO.	REVISIONS	DATE	BY
			7-2-72	...
			4-4-73	...
			7/7/73	...
			4/7/73	...
			1/17/73	...
DEL NO.		EIA NO.	DEC NO.	EIA NO.
SCALE		D/C/S		NUMBER
SHEET		6 OF 6		REV
				M

DIGITAL EQUIPMENT CORPORATION
MAYFORD, MASSACHUSETTS

TITLE: **16K X-Y DRIVE (DRVA)**

SCALE: **D/C/S**


NUMBER: **G235-0-1**

REV: **M**

PAGE REVISION CONTROL SHEET

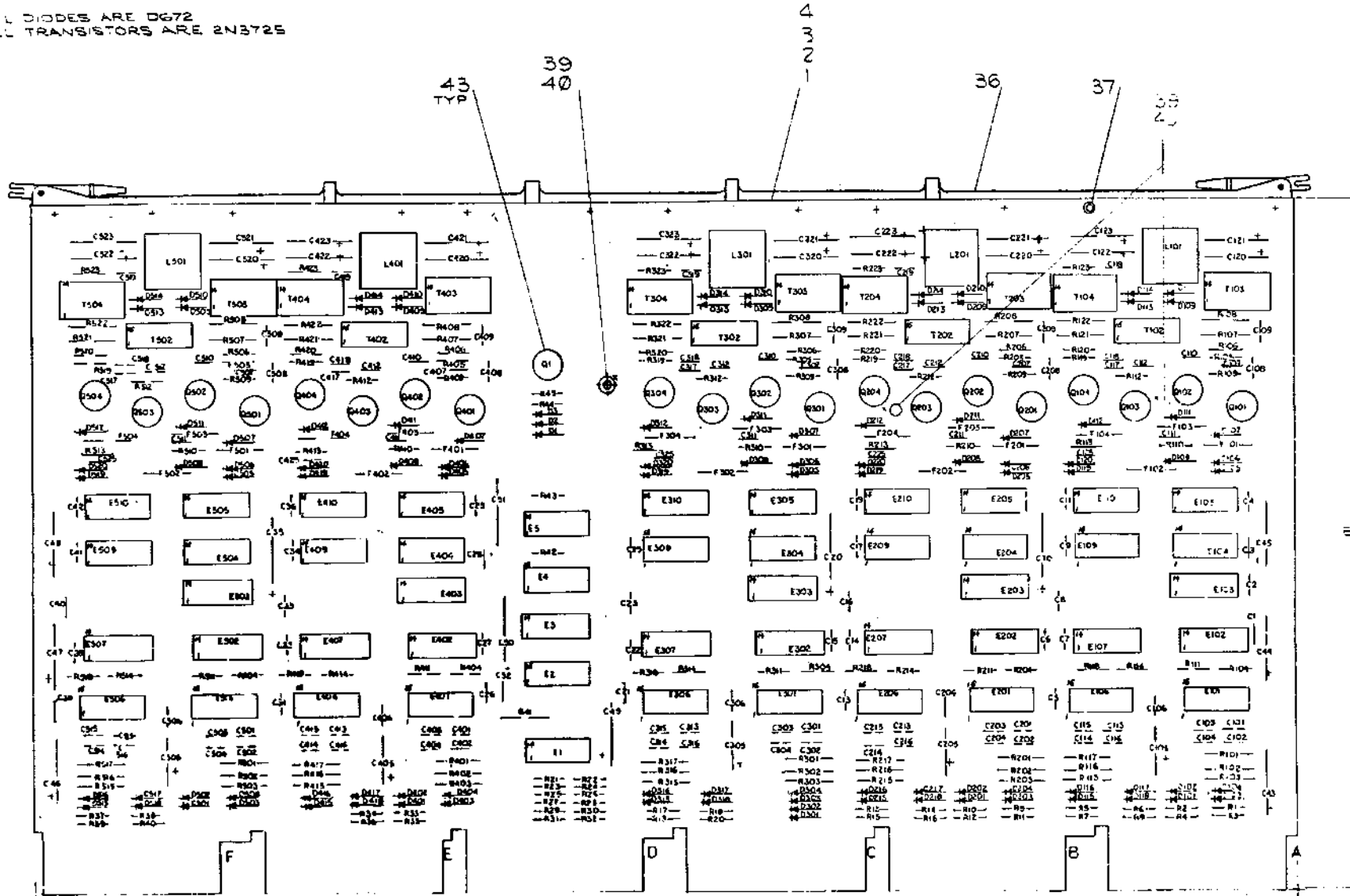
SN NO.	DATE	ENG.	ETCH REV.	ECO NO.	DESCRIPTION	REVISIONS	REMARKS
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							
81							
82							
83							
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							

FIRST USED ON OPTION/MODEL
MF11-U

		EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TITLE 16K SENSE/INHIBIT		SIZE B CS	CODE G114-0-1
NEXT HIGHER ASSY. B-DD-MM11-U		NUMBER 6114-0-1	REV. F
DRN. W. M. G. 4/13/73	CHK'D. W. M. G. 4/13/73	ENG. W. M. G. 4/13/73	PROJ. ENG. W. M. G. 4/13/73
PROD. W. M. G. 4/13/73	SCALE SHEET 1 OF 9		
"THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION."			

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. ALL RESISTORS ARE IN OHMS 1/4 W
- 2. ALL CAPACITANCE IS IN MICROFARADS
- 3. DATA BITS 17 & 18 ARE NOT USED IN 18 BIT SYSTEMS
- 4. DATA BIT 18 IS NOT USED IN 19 BIT SYSTEMS
- 5. DATA BITS 16, 17, 18 & 19 ARE NOT USED IN 16 BIT SYSTEMS
- 6. ALL DIODES ARE DG72
- 7. ALL TRANSISTORS ARE 2N3725



543 REF

15.69 REF

DEC 7380	1	8	-
DEC 7340	1	8	-
DEC 7388	9	16	8
IC TYPE	GND	+5V	-5V
+5V ARE USUALLY PIN 7 AND 14			
LEVELS EXCEPTIONS ARE STATED ABOVE			
IC PIN LOCATIONS			

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
	PARTS LIST			
	ETCH BOARD REV C			
	FIRST USED ON OPTION MODEL MF 11-U 11-AF 11-UP			
CHG	REV	DATE	BY	REVISIONS
		DATE	BY	
		DATE	BY	
		DATE	BY	
NEXT HIGHER ASSY		TITLE 16 K SENSE/INHIBIT		
DEC NO	EIA NO	DEC NC	EIA NO	SCALE
SEMICONDUCTOR CONVERSION CHART		SIZE CODE NUMBER DCS G114-0-1		
SHEET 2 OF 9		REV. F		

DCS G114-0-1
 EQUIPMENT CORPORATION
 WATKINS MANUFACTURING

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION.

1-0-119 SOID 2

ITEM NO.	QTY	REF DESIGNATION	DESCRIPTION	PART NO.
1	30	E1	ETCHED CIRCUIT BOARD	501047B
2	REF		X-Y COORDINATE HOLE LOCATION	K-CO-6114-0-4
3	REF		ASSY/DRILLING HOLE LAYOUT	D-MH-6114-0-5
4	REF		MODULE ECO HISTORY	B-MH-6114-0-6
5	55	E104 E109 E204 E209 E304 E309 E404 E409 E504 E509	CAP. 0.1UF 50V, 20% CER	1001610
6	29	F101 THRU F104 F201 THRU F204 F301 THRU F304 F401 THRU F404 F501 THRU F504	CAP. 6.8UF 35V 10% TANT	1005306
7	30	E103 E203 E303 E403 E503	CAP. 82 PF 100V 5% D.M.	1000015
8	5	E102 E202 E302 E402 E502	CAP. 3.9UF 10V, 50% TANT	1000064
9	3		CAP. 29UF 10V -10% TANT	1000076
10	20		CAP. 560 PF, 100V, 5% D.M.	1000025
11	20		CAP. .005UF 100V, 20% DISC	1001765
12	5		CAP. .22UF 50V +80% -20% CER	1010274-0
13	103	D1, D2, D3, D101 THRU D120 D201 THRU D220 D301 THRU D320 D401 THRU D420 D501 THRU D520	DIODE D672	1105275
14	20	R1, R3, R5, R7, R9, R11, R13, R15, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35, R37, R39	RES. 180 1/4W, 5%	1301322
15	1	R4	RES. 190 1/8W, 1% MF	1302354
16	20	R2, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40	RES. 390 1/4W, 5%	1300309
17	2	R42, R43	RES. 330 1/4W, 5%	1300285
18	1	R44	RES. 47K 1/4W, 5%	1302447
19	20	R101, R102, R16, R17, R201, R202, R216, R217, R301, R302, R316, R317, R401, R402, R416, R417, R501, R502, R516, R517	RES. 19.6 1/8W, 1% MF	1303110
20	10	R103, R115, R203, R215, R303, R315, R403, R415, R503, R515	RES. 1K 1/8W, 1% MF	1303114
21	20	R104, R111, R114, R118, R204, R211, R214, R218, R304, R311, R314, R318, R404, R411, R414, R418, R504, R511, R514, R518	RES. 1K, 1/4W, 5%	1300365
22	20	R109, R110, R112, R113, R209, R210, R212, R213, R309, R310, R312, R313, R409, R410, R412, R413, R509, R510, R512, R513	RES. 100 1/4W, 5%	1300229
23	20	R105, R106, R119, R120, R205, R206, R219, R220, R305, R306, R319, R320, R405, R406, R419, R420, R505, R506, R519, R520	RES. 5.1 1/4W, 5%	1303422
24	1	R45	RES. 470 1/4W, 5%	1300316
25	5	R123, R223, R323, R423, R523	RES. 150 1/4W, 5%	1300250
26	20	R107, R108, R121, R122, R207, R208, R221, R222, R307, R308, R321, R322, R407, R408, R421, R422, R507, R508, R521, R522	RES. 56 1/2W, 5%	1309995
27	21	Q1, Q101 THRU Q104, Q201 THRU Q204, Q301 THRU Q304, Q401 THRU Q404, Q501 THRU Q504	TRANS. 2N3727 (T05)	1510559
28	10	T103, T104, T203, T204, T303, T304, T403, T404, T503, T504	TRANSFORMER SATURATING INHIBIT	1610961
29	5	T102, T202, T302, T402, T502	TRANSFORMER, PULSE (LIP)	1609996

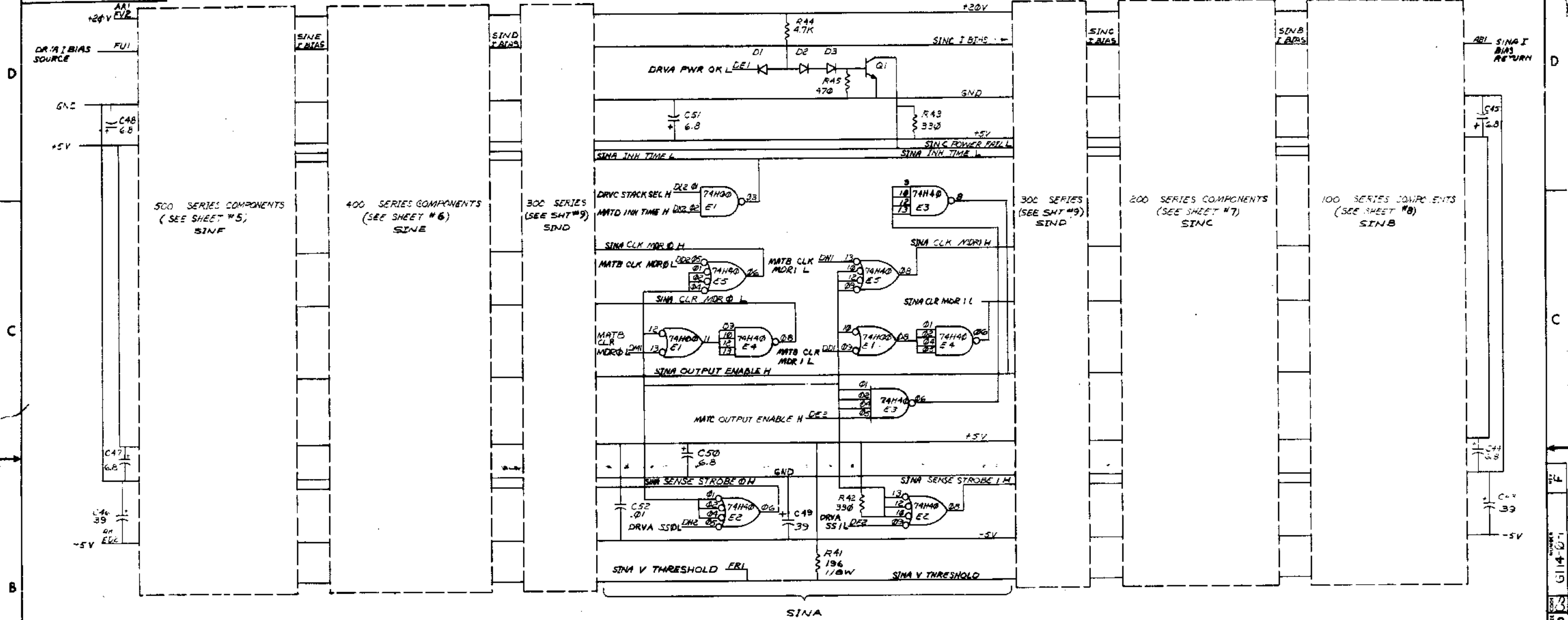
TITLE	16K SENSE/INHIBIT	SIZE CODE	D CS	NUMBER	G114-0-1	REV.	F
SCALE	---	SHEET	3 OF 9	DIST.			

PARTS LIST

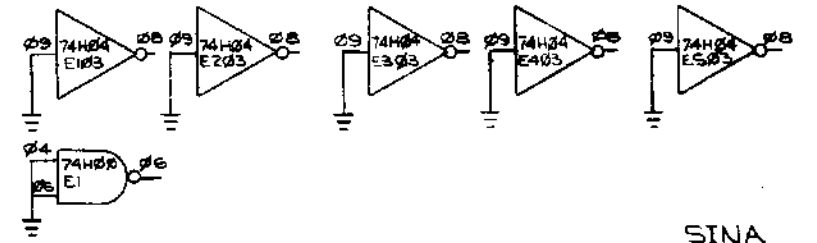
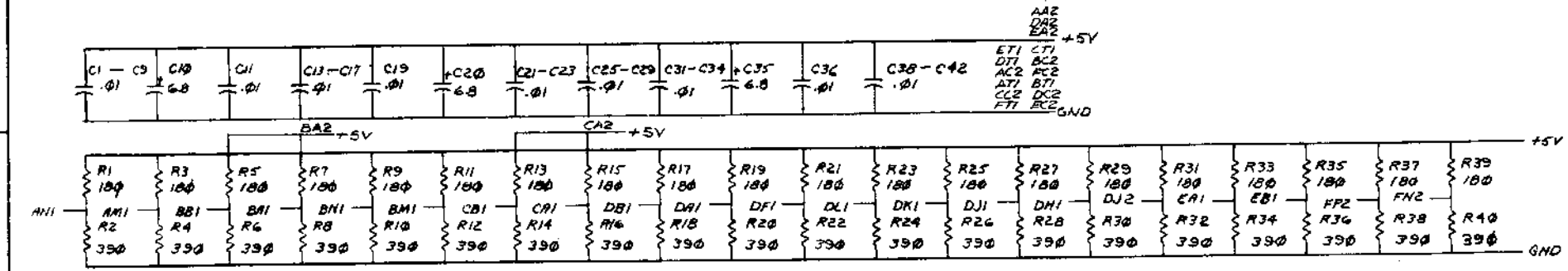
REVISIONS		
CHK	CHANGE NO	REV

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part, or the basis for the manufacture or sale of items without express permission.

COPYRIGHT © 1973 DIGITAL EQUIPMENT CORPORATION



SINA

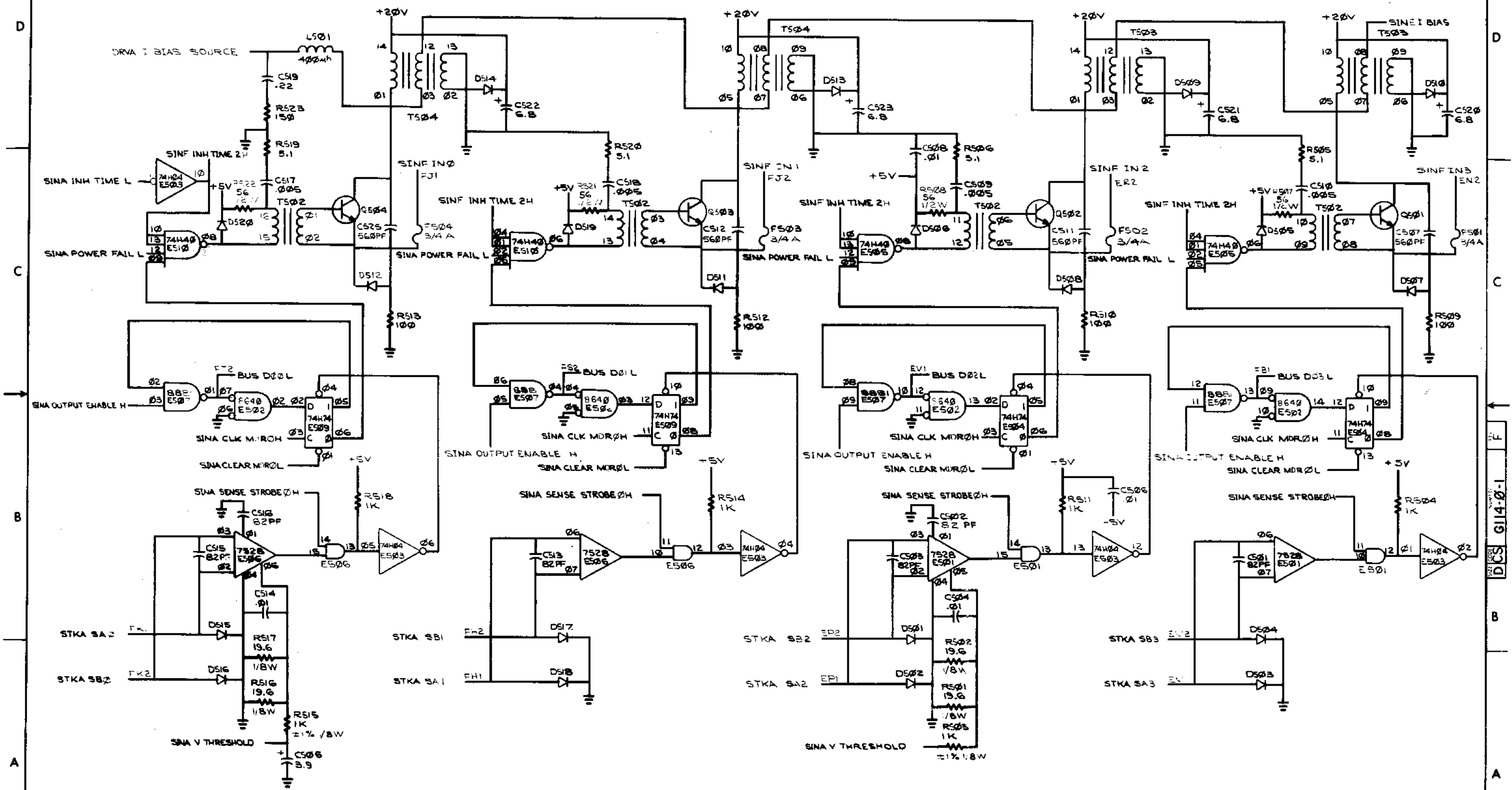


SINA

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MF11-U1 MF11-UP		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DATE 6-20-73	digital EQUIPMENT CORPORATION		
DECIMALS	ANGLES	TITLE		
XXX - .008	10° 30'	16K SENSE/INHIBIT (SINA)		
.XX - .02		SIZE CODE NUMBER REV.		
.X - .1		DCS G114-0-1 E		
MATERIAL	NEXT HIGHER ASSEMBLY	SCALE		
		SHEET 4 OF 9		

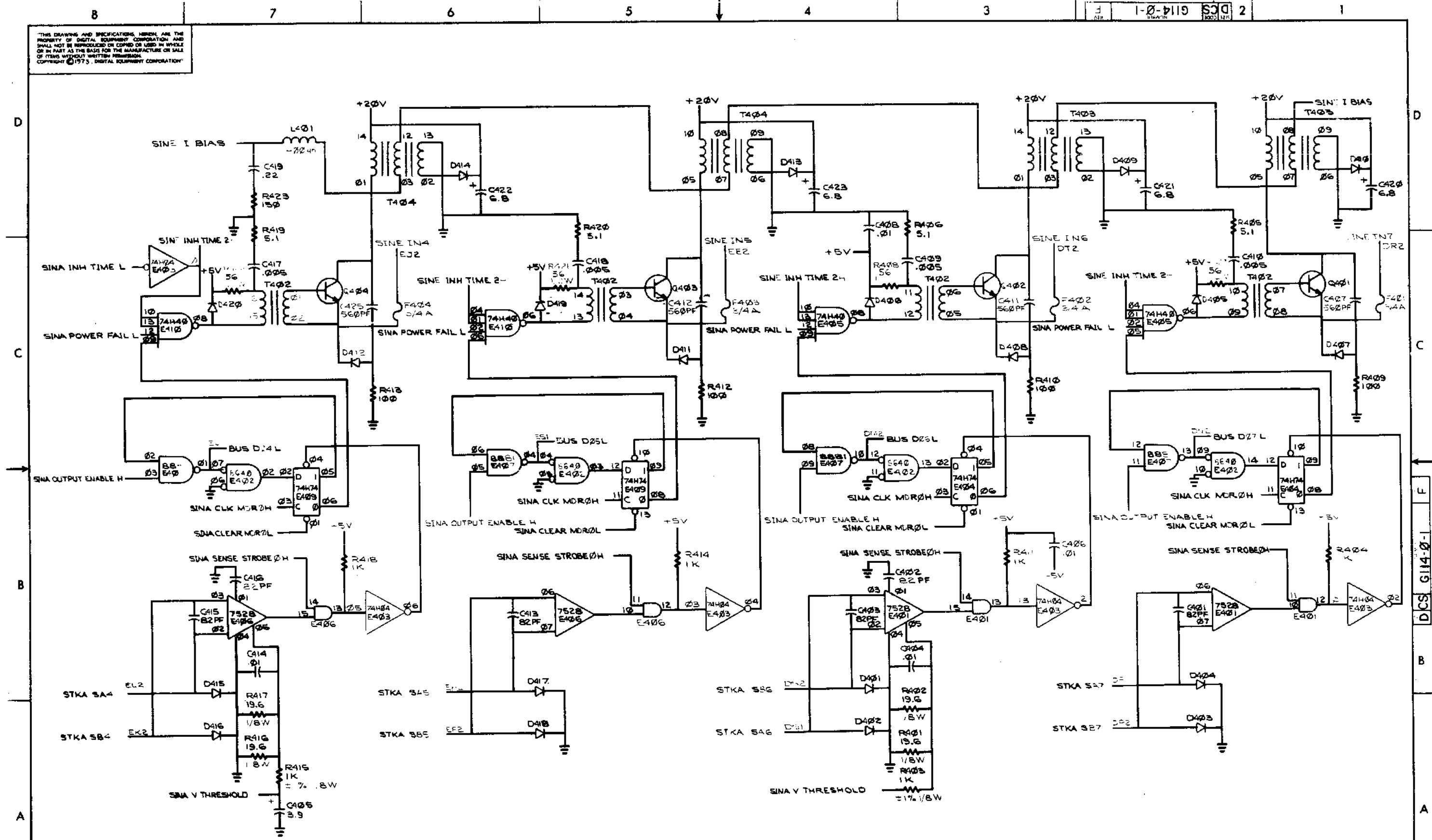
REVISIONS
CHANGE NO.
REV.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION.



REVISIONS		
CHK	CHANGE NO	REV

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION.

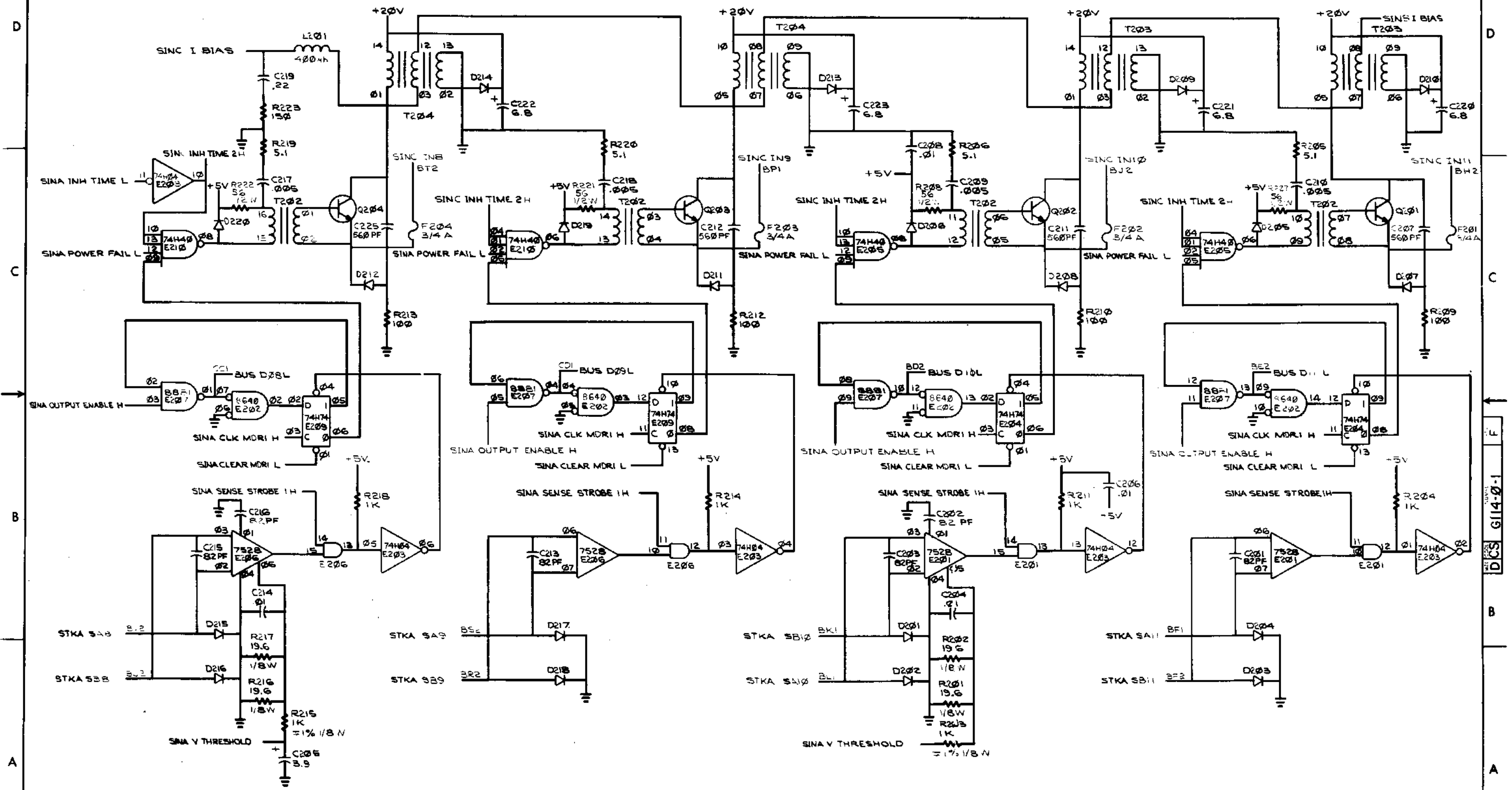


REVISIONS		
CHK	CHANGE NO	REV

400 SERIES SINE

TITLE	SIZE CODE	NUMBER	REV.
16K SENSE/INHIBIT (SINE)	DCS	G114-0-1	F
SCALE	SHEET	OF	
	6	9	

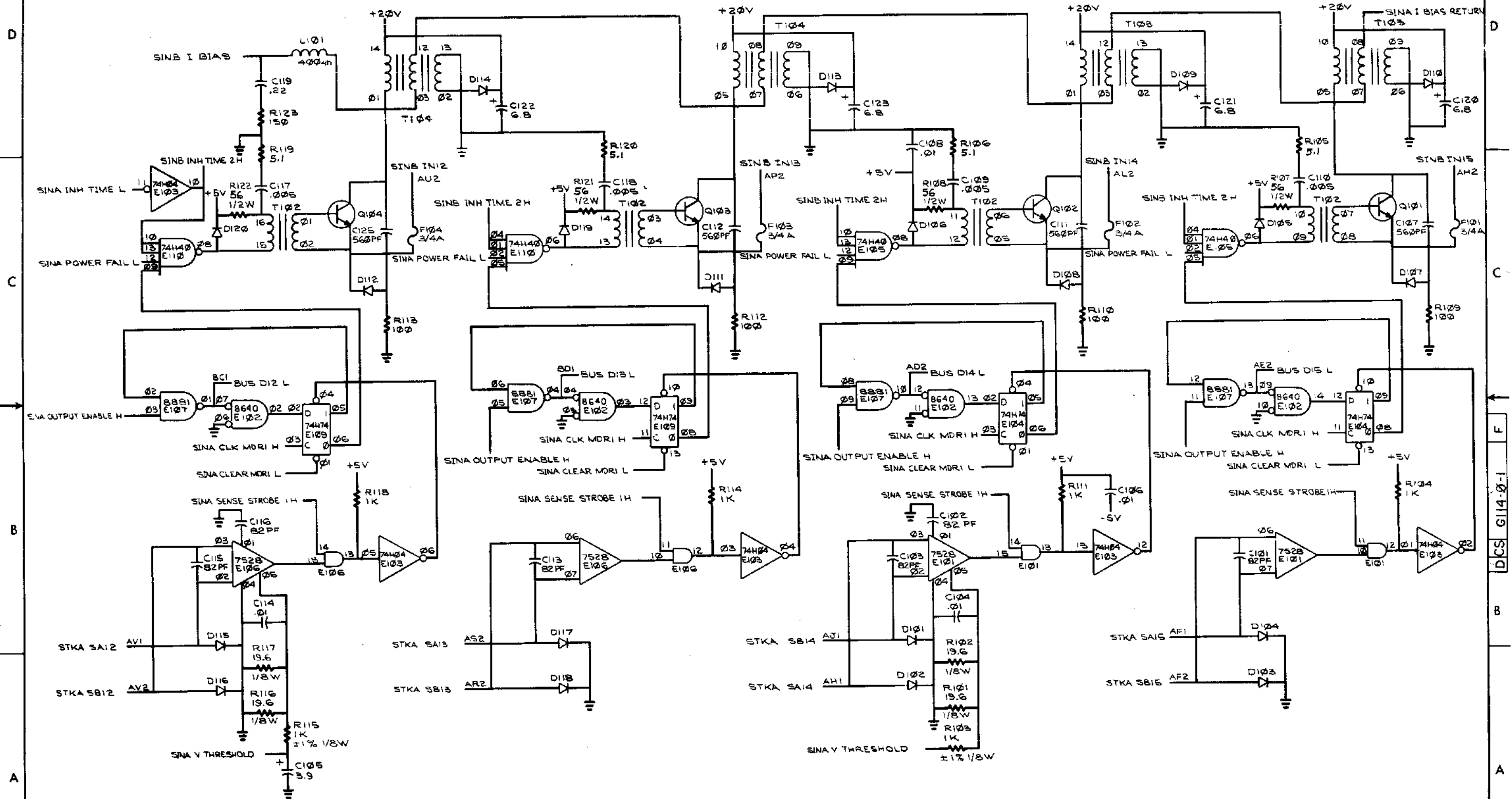
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION.



REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE CODE	NUMBER	REV.
16K SENSE/INHIBIT (SINC)		DCS	G114-0-1	F
SCALE		SHEET	OF	DIST.
		7	9	

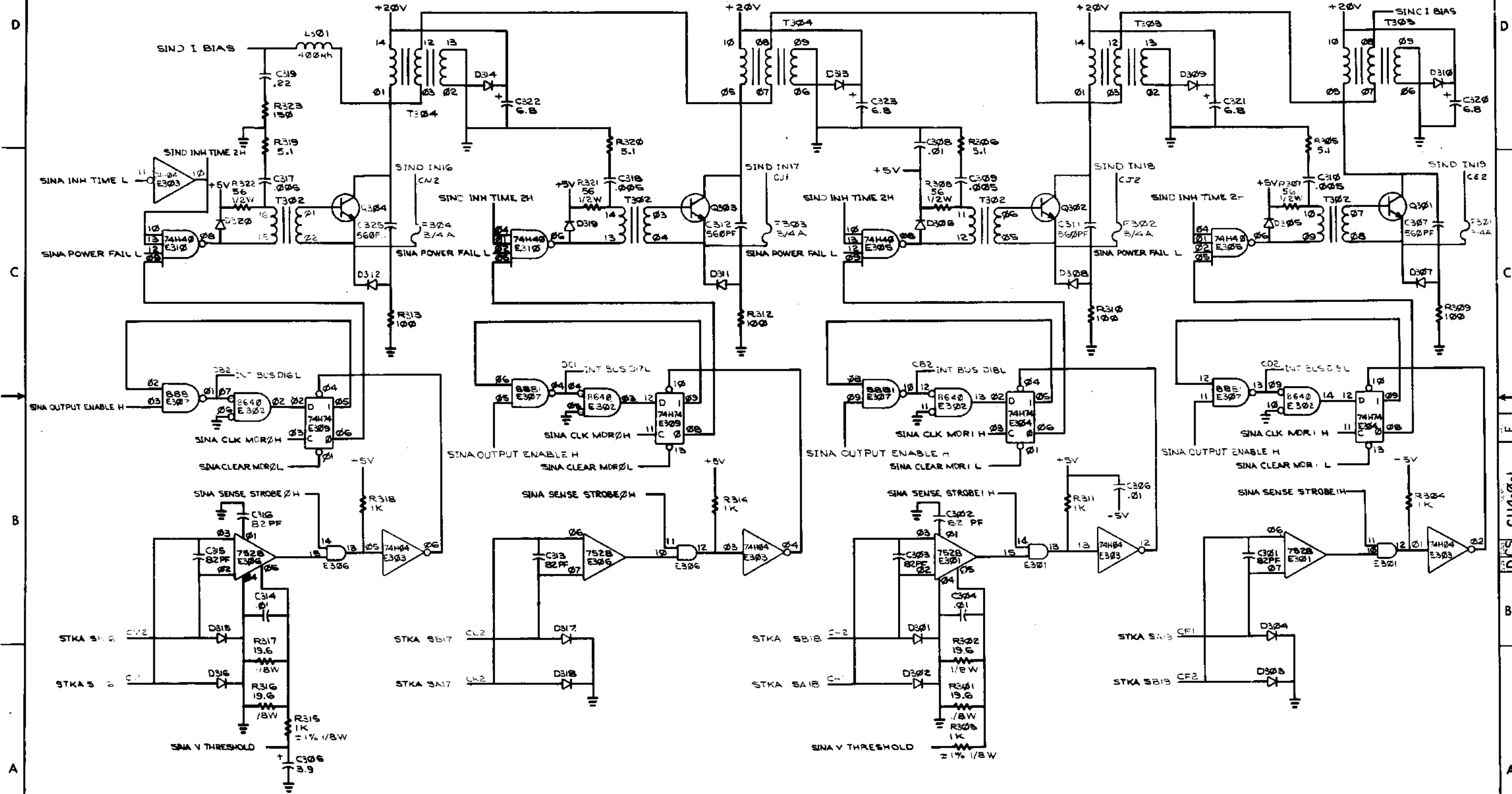
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION.



1000 SERIES SINB

REVISIONS			TITLE	SIZE CODE	NUMBER	REV.
CHK	CHANGE NO	REV				
			16K SENSE/INHIBIT (SINB)	DCS	6114-0-1	E
			SCALE	SHEET 8 OF 9	DIST.	

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION

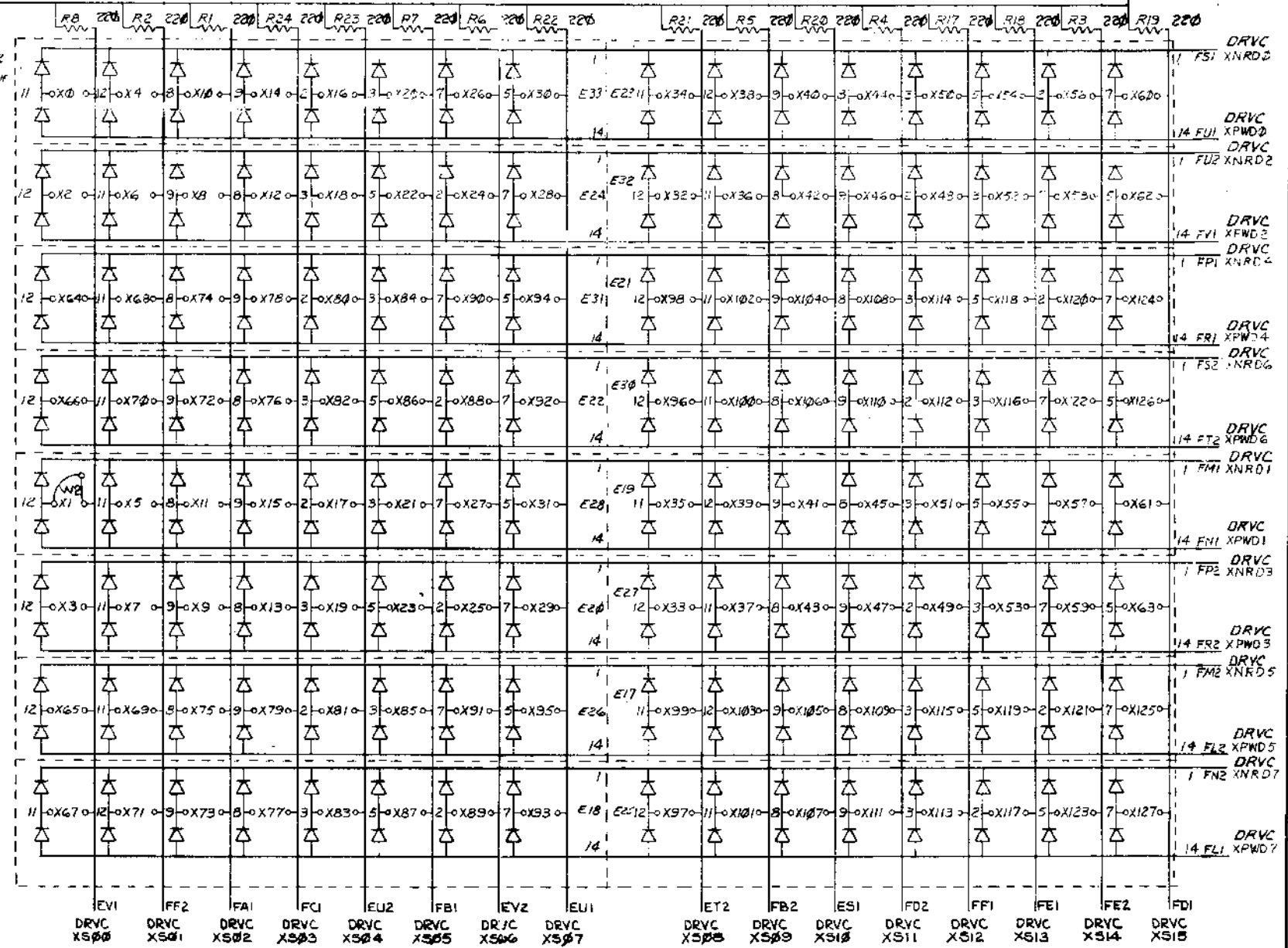
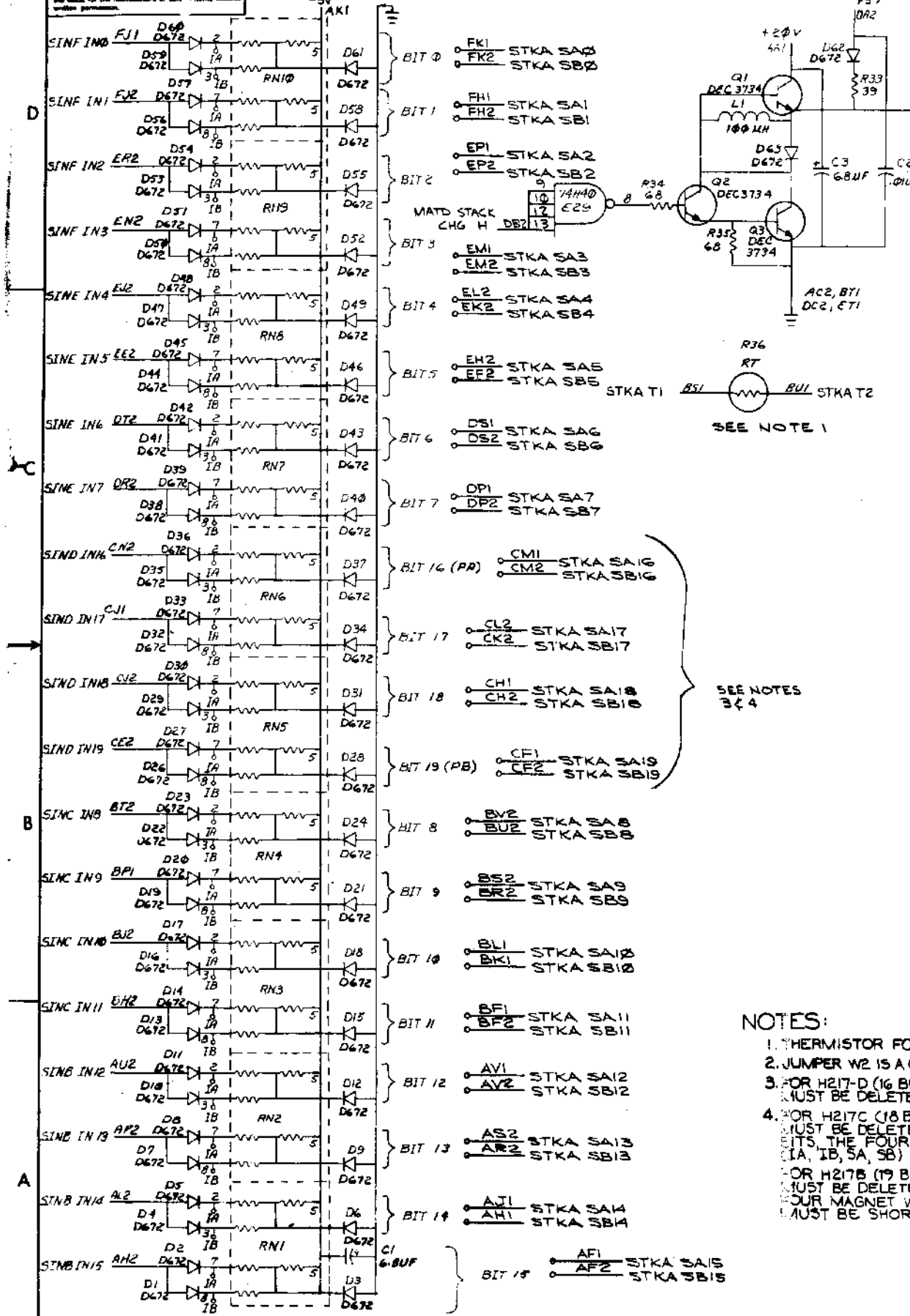


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
16K SENSE/INHIBIT (SIND)		DCS	G114-0-1	F
SCALE		SHEET	OF	DIST.
		9	9	

300 SERIES SIND

COPYRIGHT © 1973, DIGITAL EQUIPMENT CORPORATION



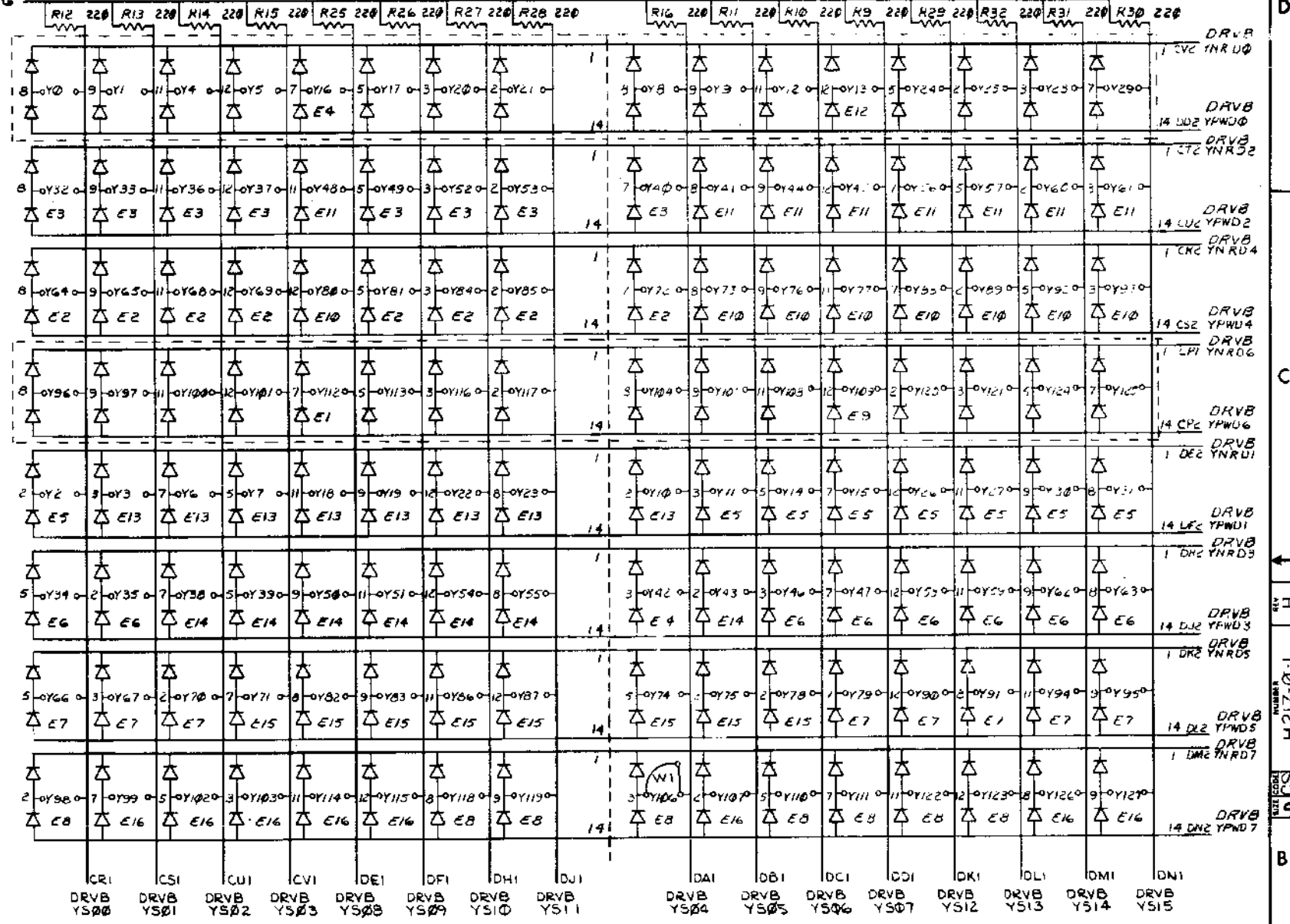
- NOTES:
1. THERMISTOR FOR TEMPERATURE COMPENSATION
 2. JUMPER W2 IS A CURRENT LOOP FOR TEST USE ONLY
 3. FOR H217-D (16 BIT STACK) THE FOLLOWING COMPONENTS MUST BE DELETED; RN5, RN6, D26 THRU D37
 4. FOR H217C (18 BIT STACK) THE FOLLOWING COMPONENTS MUST BE DELETED; D29, D30, D32, D33. FOR THE UNUSED BITS, THE FOUR MAGNET WIRE TERMINATION PADS (IA, IB, SA, SB) MUST BE SHORTED TOGETHER
 5. FOR H217B (19 BIT STACK) THE FOLLOWING COMPONENTS MUST BE DELETED; D29, D30. FOR THE UNUSED BIT, THE FOUR MAGNET WIRE TERMINATION PADS (IA, IB, SA, SB) MUST BE SHORTED TOGETHER

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
digital EQUIPMENT CORPORATION				
STACK BOARD (STKA)				
DCS H217-0-1				
SEMICONDUCTOR CONVERSION CHART				
DEC 73	EIA NO.	DEC NO.	EIA NO.	SCALE
SHEET 2 OF 3				

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part in the manufacture or sale of items without written permission.

COPYRIGHT © 1973 DIGITAL EQUIPMENT CORPORATION

STKA CHG

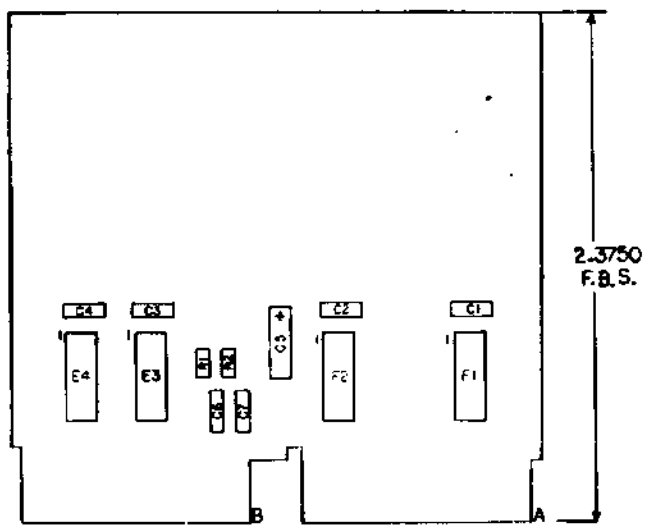


NOTE: JUMPER W1 IS A CURRENT LOOP FOR TEST USE ONLY

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																								
PARTS LIST																												
ETCH BOARD REV E																												
<table border="1" style="width: 100%;"> <tr> <td>DATE</td> <td>BY</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>7-10-72</td> <td>B. M. Newton</td> <td>11/17/73</td> <td>W. J. Fisher</td> </tr> <tr> <td>8-11-72</td> <td>P. S. R. P.</td> <td>11/17/73</td> <td>C. M. Fisher</td> </tr> <tr> <td>8-11-72</td> <td>W. J. Fisher</td> <td>11/17/73</td> <td>W. J. Fisher</td> </tr> <tr> <td>8-11-72</td> <td>C. M. Fisher</td> <td>11/17/73</td> <td>W. J. Fisher</td> </tr> <tr> <td>8-11-72</td> <td>W. J. Fisher</td> <td>11/17/73</td> <td>W. J. Fisher</td> </tr> </table>					DATE	BY	DATE	BY	7-10-72	B. M. Newton	11/17/73	W. J. Fisher	8-11-72	P. S. R. P.	11/17/73	C. M. Fisher	8-11-72	W. J. Fisher	11/17/73	W. J. Fisher	8-11-72	C. M. Fisher	11/17/73	W. J. Fisher	8-11-72	W. J. Fisher	11/17/73	W. J. Fisher
DATE	BY	DATE	BY																									
7-10-72	B. M. Newton	11/17/73	W. J. Fisher																									
8-11-72	P. S. R. P.	11/17/73	C. M. Fisher																									
8-11-72	W. J. Fisher	11/17/73	W. J. Fisher																									
8-11-72	C. M. Fisher	11/17/73	W. J. Fisher																									
8-11-72	W. J. Fisher	11/17/73	W. J. Fisher																									
<p>digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS</p> <p>STACK BOARD (STKB)</p> <p>SCALE: 1/1 SHEET: 3 OF 3</p>																												
DEC NO.		EIA NO.		NUMBER																								
				DCS H217-0-1																								
SEMICONDUCTOR CONVERSION CHART																												

NOTES:

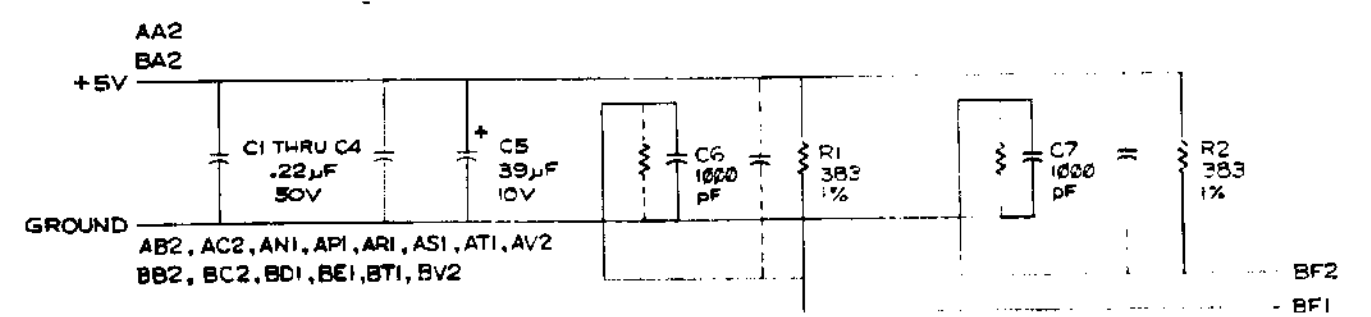
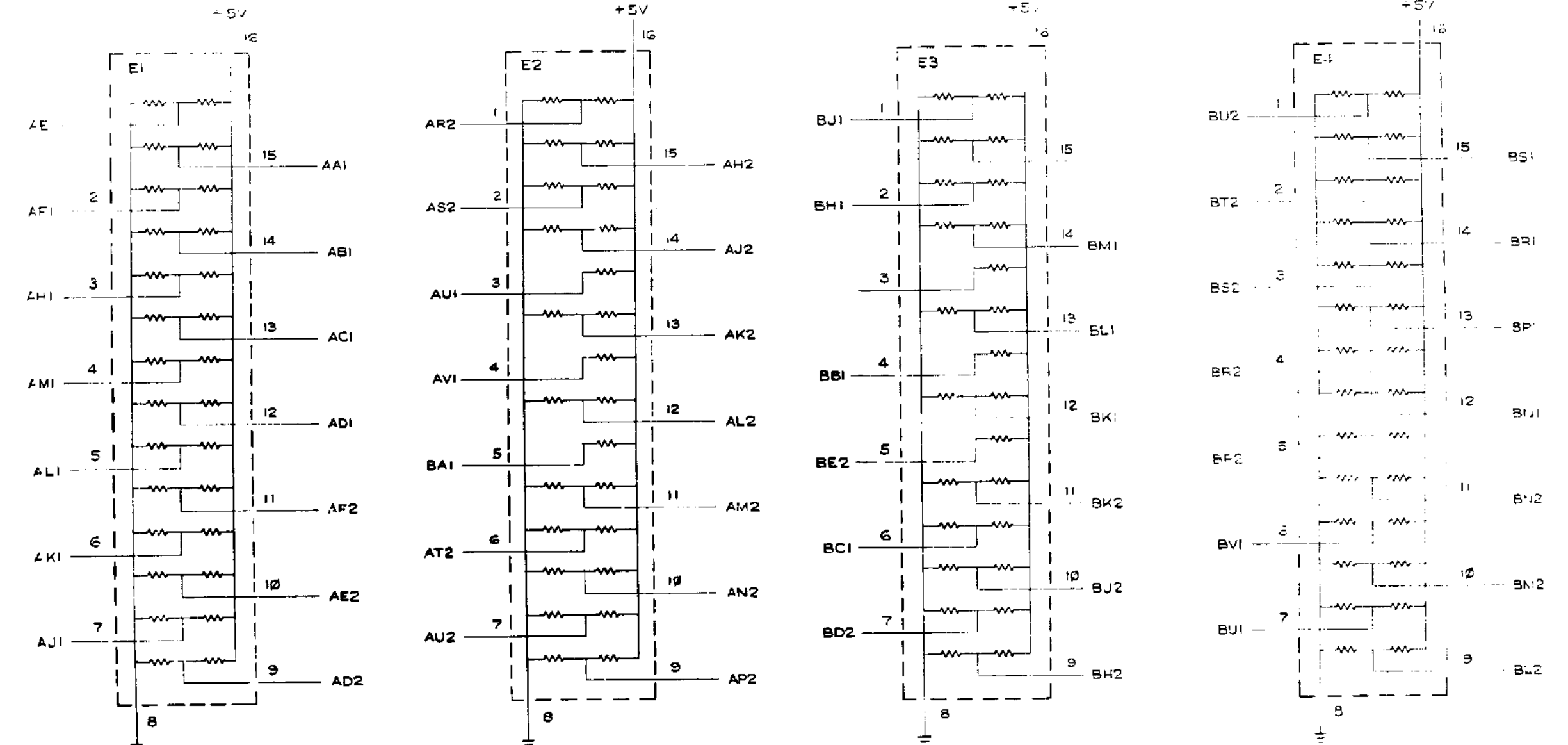
REF	KEY LOC OF DIMATE HOLE LOCATION	K-CO-M930-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M930-0-5	2
REF	MODULE ECO HISTORY	B-MH-M930-0-6	3
REF	ETCHED CIRCUIT BOARD	5025696	4
4	C1 THRU C4	CAP .22 μF 50V CER	1010274-21
2	C6, C7	CAP 1000 pF 250V 20% DSC	1000043
1	C5	CAP 39 μF 10V 10% TANT	1000076
2	R1, R2	RES 383Ω 1/4W 1%	1305125
2	E1, E4	25 RES DIVIDER NETWORK	1312228-02
2	E2, E3	25 RES DIVIDER NETWORK	1312223-01



IC TYPE	GRD	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
FIRST USED ON OPTION MODEL				
M930				
ETCH BOARD REV. E-PS				
DRN. J. CARTER	DATE 7-9-75	 TITLE BUS TERMINATOR		
CHKD. E. Morrison	DATE 7-16-75			
ENG. [Signature]	DATE 7-23-75			
PROD. [Signature]	DATE 12-3-75			
NEXT HIGHER ASSY		SCALE	SIZE CODE DCS	NUMBER M930-0-1
DEC NO.	EIA NO.	DEC NO.	EIA NO.	REV. E
SEMICONDUCTOR CONVERSION CHART				
SHEET 1 OF 2		DST.		

PART NO. M930-0-1
 REV. E
 SHEET DCS
 DRAWN BY DCS



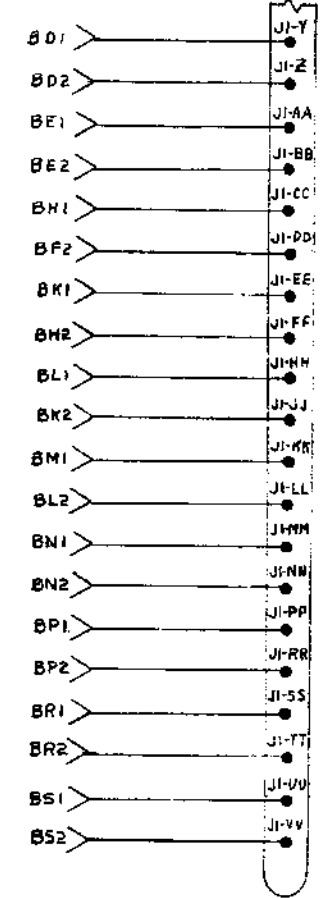
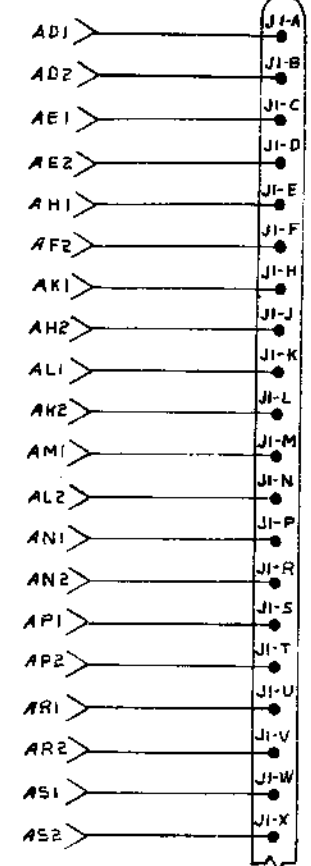
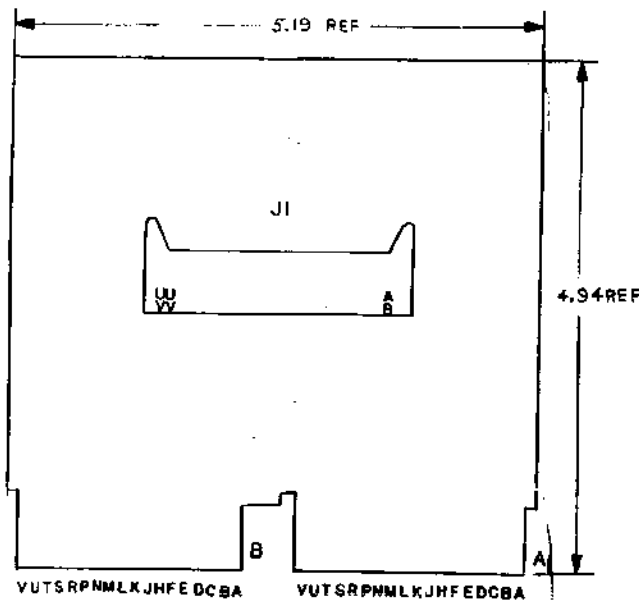
REVISIONS	
CHANGE NO.	REV.

TITLE	SIZE/CODE	NUMBER	REV.
BUS TERMINATOR	D CS	M330-2-1	E
SCALE	SHEET 2 OF 2	DIST	

ALL DIMENSIONS AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART WITHOUT THE EXPRESS PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

NOTES:

REF	X-Y COORDINATE HOLE LOCATION	H-CO-M997-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M997-0-5	2
REF	MODULE ECO HISTORY	S-H-M997-0-6	3
REF	ETCHED CIRCUIT BOARD	50.033R	4
REF	CONN., RT. ANGLE HEADER	12-09941	5

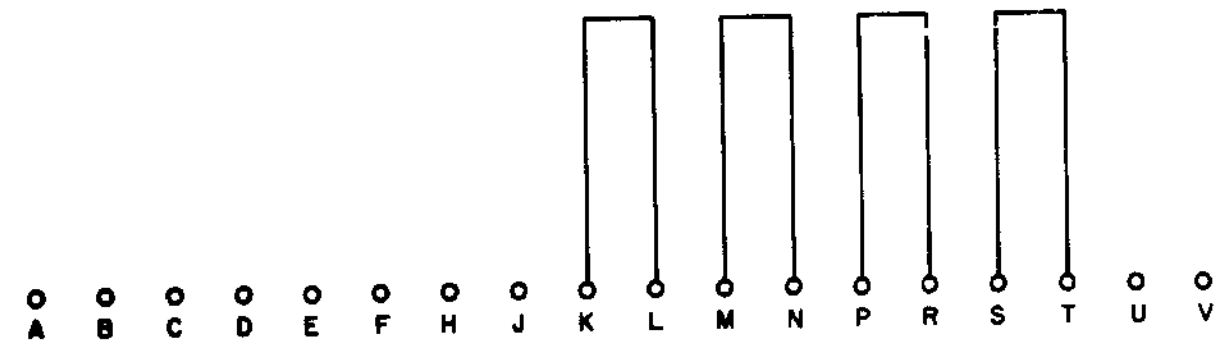


IC TYPE	GND	+5V
AND 5V AS SPECIFIED IN PINS 7 AND 14		
IC PIN LOCATIONS		

CHK	CHANGE NO.	REV	REV	DATE	BY																														
FIRST USED ON OPTION MODEL			ETCH BOARD REV B																																
PARTS LIST			TITLE																																
<table border="1"> <tr> <th>QTY</th> <th>REF DESIGNATION</th> <th>DESCRIPTION</th> <th>PART NO.</th> <th>ITEM NO.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>			QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.						<table border="1"> <tr> <td>DRN</td> <td>Silvia</td> <td>DATE</td> <td>3-22-76</td> </tr> <tr> <td>CHK'D</td> <td> </td> <td>DATE</td> <td>3/23/76</td> </tr> <tr> <td>ENG</td> <td>C. Dehane</td> <td>DATE</td> <td>3/23/76</td> </tr> <tr> <td>PROJ. ENG</td> <td>C. Dehane</td> <td>DATE</td> <td>3/23/76</td> </tr> <tr> <td>PRD</td> <td>C. Dehane</td> <td>DATE</td> <td>3/23/76</td> </tr> </table>			DRN	Silvia	DATE	3-22-76	CHK'D		DATE	3/23/76	ENG	C. Dehane	DATE	3/23/76	PROJ. ENG	C. Dehane	DATE	3/23/76	PRD	C. Dehane	DATE	3/23/76
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																															
DRN	Silvia	DATE	3-22-76																																
CHK'D		DATE	3/23/76																																
ENG	C. Dehane	DATE	3/23/76																																
PROJ. ENG	C. Dehane	DATE	3/23/76																																
PRD	C. Dehane	DATE	3/23/76																																
NEXT HIGHER ASSY			<table border="1"> <tr> <td>SIZE CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>DCS</td> <td>M997-0-1</td> <td>A</td> </tr> </table>			SIZE CODE	NUMBER	REV.	DCS	M997-0-1	A																								
SIZE CODE	NUMBER	REV.																																	
DCS	M997-0-1	A																																	
SEMICONDUCTOR CONVERSION CHART			SCALE NONE																																
SHEET 1 OF 1			DIST																																

DCS M997-0-1 A

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



REVISIONS	CHK	CHG NO	REV

DRN <i>OUTLER</i>	DATE <i>11-19-69</i>
CHK'D <i>P. J. Smith</i>	DATE <i>6-11-70</i>
ENG <i>J. C. Jones</i>	DATE <i>1/28/70</i>
PROC	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE GRANT CONTINUITY G727			
SIZE B	CODE CS	NUMBER G727-0-1	REV
PRINTED CIRCUIT REV			A

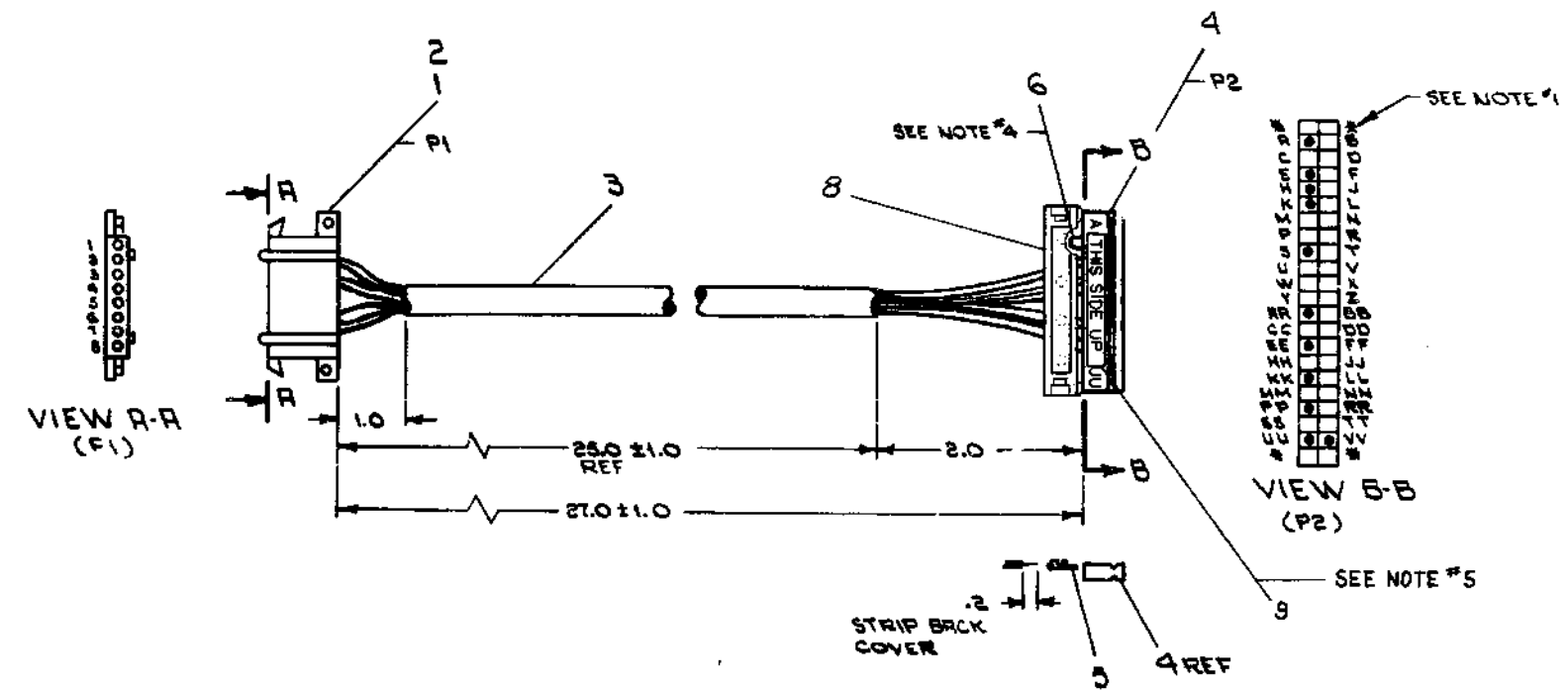


E. P. ... DIST 014344353

WIRE TABLE

ITEM NO.	DESCRIPTION	COLOR	PAIR NO.	FROM		TO	
				CONNECTION WITH	CONNECTION WITH		
1	22	BLK	1	P1-2	2	P2-KK	5
2		RED	1	P1-3	2	P2-S	
3,7		SHIELD		SEE NOTE #2	-	P2-R(NOTE#3)	
3		BLK	2	P1-4	2	P2-2E	
4		WHT	2	P1-5	2	P2-RR	
5,7		SHIELD		SEE NOTE #2	-	P2-U(NOTE#3)	
3		BLK	3	P1-6	2	P2-PP	
3		GRN	3	P1-7	2	P2-K	
3,7		SHIELD		SEE NOTE #2	-	P2-VV(NOTE#3)	
6	22	BLK	-	P2-E	5	P2-H	5

- NOTES:**
- * ASTERISKS INDICATE CAVITIES NOT USED OR DESIGNATED BY LETTERS.
 - DRAIN WIRES TO BE CUT BACK TO OUTER INSULATION ON P1 END OF CABLE ONLY. SHIELDS TO BE CUT BACK TO OUTER INSULATION ON BOTH ENDS OF CABLES.
 - DRAIN WIRES ON P2 END OF CABLE TO BE EACH ENCLOSED WITH ITEM #7 (TUBING) FROM END OF CABLE JACKET TO POINT WHERE THEY ENTER P2 CONNECTOR.
 - ITEM #6(WIRE) TO BE APPROXIMATELY ONE (1) INCH LONG.
 - PLACE ITEM #9 (THIS SIDE UP) STICKER ON LETTERED SIDE OF ITEM #4 (BERG HOUSING) AS SHOWN.



QTY	DESCRIPTION	PART NO	ITEM NO
1	LABEL, THIS SIDE UP	361567	1
	TRAIN RELIEF	21165	2
1	JACKET, 1/8" STEF. THIN WALL MAT	910278-11	3
1	WIRE #22 AWG STRD TEF BLK	9107350-00	6
1	SOCKET, CRIMP #4721C	1210089-07	5
1	HOUSING, BERG #650-23-15		4
1	CABLE BELTEN BTT-33R SHLD	910723-0	3
6	CONTACT MT. LOCK(FEMALE)	1209379-02	2
1	CONN. MATE. LOCK(FEMALE)	1209340-00	1

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES

TOLENCES
ANGLES 2° MIN
FINISH REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL
SEE PARTS LIST

FRESH

DATE
1/2/74

SCALE
NONE

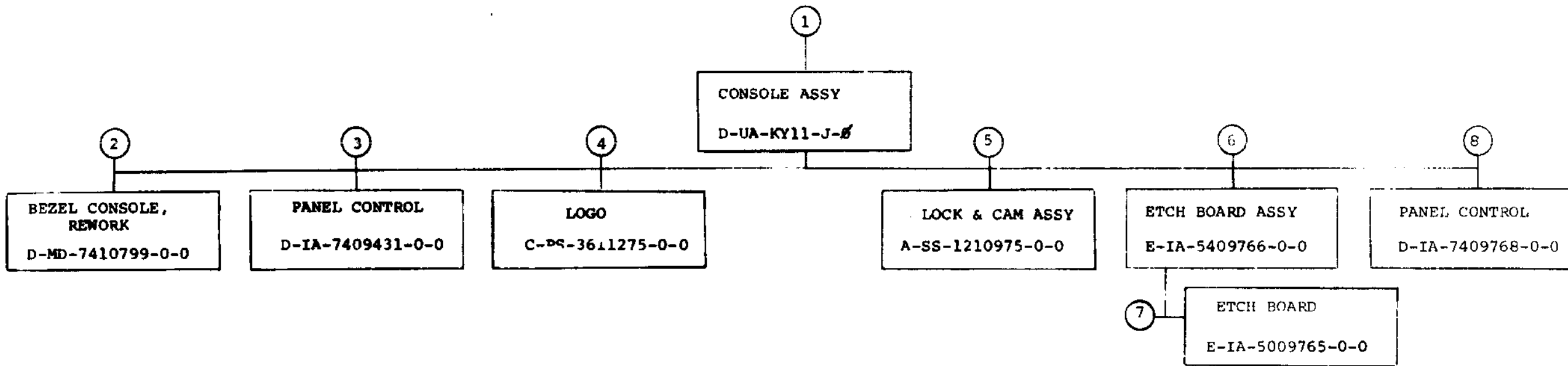
FILE
CABLE ASSEMBLY (KL8E)

SIZE CODE
DIA 7008360-0-0

NUMBER
REV E

REGAN
1/2/74
REGAN
1/2/74
REGAN
1/2/74

DIA 7008360-0-0 E



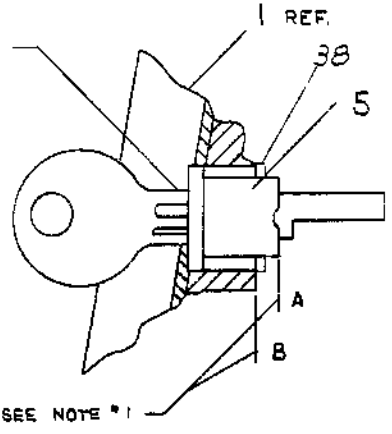
TITLE	SIZE CODE	NUMBER	REV
CONSOLE ASSY	B DD	KY11-J	D
SHEET 2 OF 3			

THIS DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT. IT IS TO BE REPRODUCED AS SHOWN AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE GOVERNMENT.

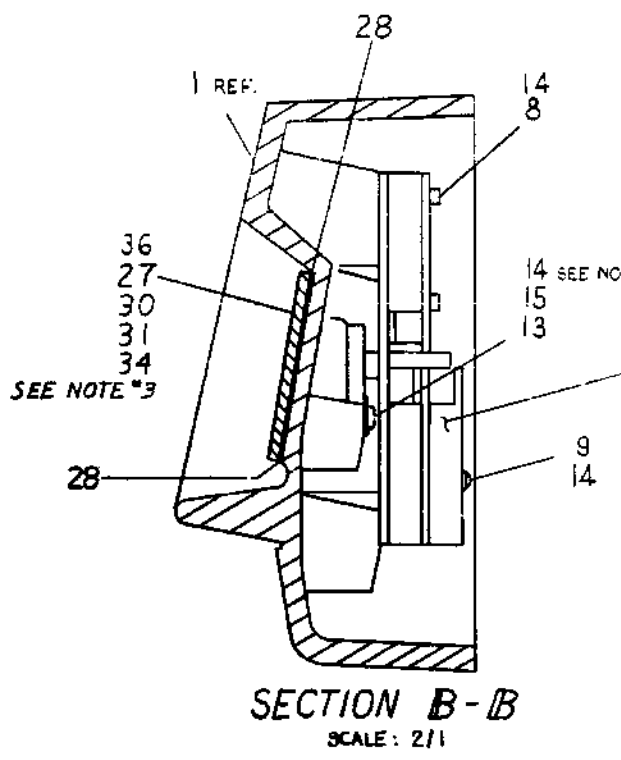
LEGEND

PART NO.	VARIATION
KYII-JA	1105 CONSOLE WITH L.E.D.S.
KYII-JB	1110 CONSOLE WITH L.E.D.S.
KYII-JC	VT40 CONSOLE WITH L.E.D.S.
KYII-JF	UC15 CONSOLE WITH L.E.D.S.
KYII-JD	10 1/2" 1105 CONSOLE WITH L.E.D.S.
KYII-JE	10 1/2" 1110 CONSOLE WITH L.E.D.S.
KYII-JG	INDUSTIAL CONSOLE WITH L.E.D.S.

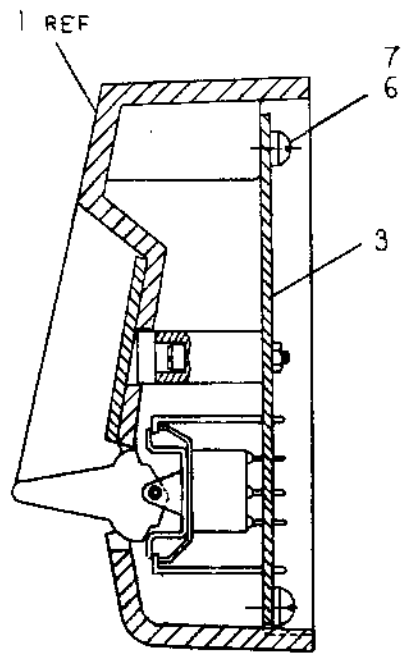
TEETH OF KEY UP,
COMPUTER IS IN
'OFF' POSITION



SECTION C-C
SCALE: 2/1



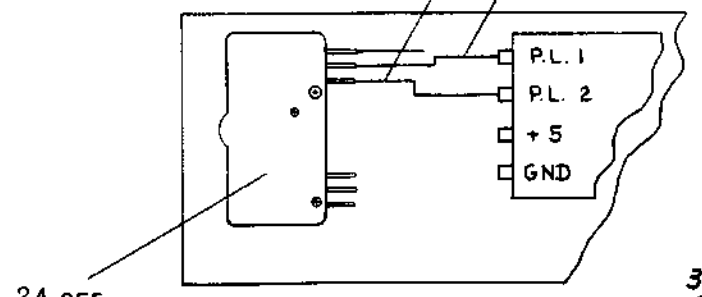
SECTION B-B
SCALE: 2/1



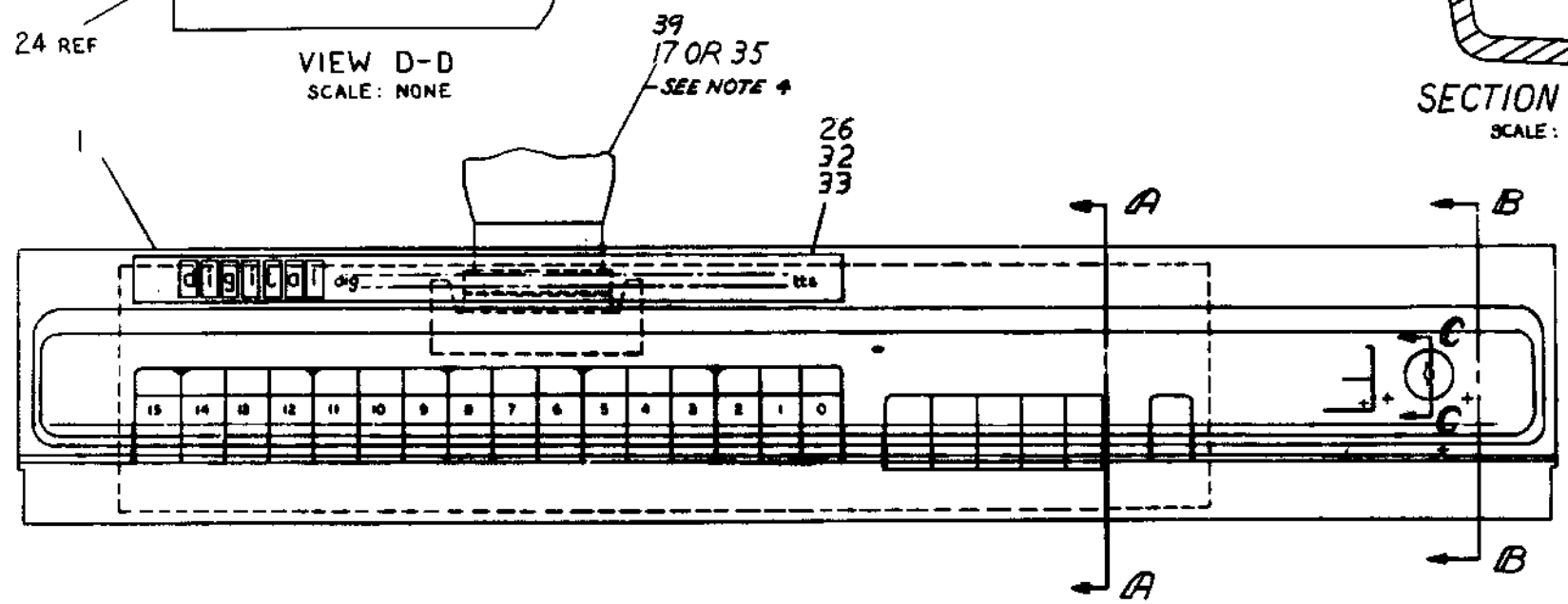
SECTION A-A
SCALE: 2/1

NOTES

1. CASTING KEY HOLE SURFACES A & B TO BE COATED WITH LUBE (ITEM #16)
2. LOCK WASHER IS NOT USED ON SCREW UNDER SWITCH.
3. INSERT CONTROL PANEL (ITEM #27, 30, 31, 34) USING ADHESIVE TRANSFER TAPE (ITEM #39) ON REAR SURFACE & PRESS FIRMLY IN PLACE.
4. INSTALL 18 INCHES OF TAPE (ITEM #39) ON UNSHIELDED SIDE OF 210 CABLE BEGINNING AT FAR END OF CABLE FROM CONSOLE. ALL VARIATIONS EXCEPT JD AND JE.



VIEW D-D
SCALE: NONE



REV.	CHANGE NO.	DATE	BY	CHKD.	DESCRIPTION
1	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
2	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
3	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
4	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
5	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
6	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
7	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
8	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
9	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
10	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
11	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
12	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
13	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
14	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
15	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
16	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
17	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
18	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
19	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
20	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
21	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
22	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
23	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
24	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
25	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
26	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
27	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
28	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
29	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
30	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
31	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
32	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
33	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
34	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
35	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
36	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
37	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
38	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN
39	1	11-23-72	G. GRAHAM		REVISED LERE DRAWN

FIRST USED ON OPTION/MODEL
PDP 1105

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
FRACTIONS
DECIMALS
HOLE DIA.
FINISH
SURFACE
TEXTURE
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM INCL.
PARTS LIST			
	CAMILL	DATE 11-26-71	EQUIPMENT CORPORATION MILWAUKEE, WISCONSIN
	TESCHNER	DATE 11-26-72	
	GRAHAM	DATE 11-26-72	
	WEEKS	DATE 11-26-72	
	PETERSON	DATE 11-26-72	
NEXT HIGHER ASSY D-UA-1105-0-0			
SCALE 1/1		DUA KYII-J-0	
SHEET 1 OF 1		REV N	

CONSOLE ASSY
(PDP 1105)

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. ROBICHAUD
DATE 12-8-71
ENG G. GRAHAM
DATE 4-5-72

CHECKED C. TESCHNER
DATE 5-1-72
PROD R. K. PETERSON
DATE 5-10-72

SECTION 1
ISSUED SECT. 1

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	D-MD-7410799-0-0	CONSOLE BEZEL REWORK	KY11-JA 1 1 1 1 1 1 1
2	D-PS-1210975-0-0	BEZEL CONTROL (1110)	KY11-JB 1 1 1 1 1 1 1
3	E-IA-5409766-0-0	CONSOLE ETCH BOARD ASSY	KY11-JC 1 1 1 1 1 1 1
4	D-IA-1210975-0-0	CONSOLE ETCH BOARD ASSY (ORIGINAL)	KY11-JD 1 1 1 1 1 1 1
5	A-PS-1210975-0-0	LOCK & CAM ASS'Y	KY11-JE 1 1 1 1 1 1 1
6	9006020-1	SCR, PHL PAN HD. #6-32 X 1/4 LG	KY11-JF 6 6 6 6 6 6 6
7	9006633	WASH INT TOOTH LOCK #6	KY11-JG 6 6 6 6 6 6 6
8	9006003-1	SCR PHL PAN HD #2-56 X 3/8 LG	KY11-JH 2 2 2 2 2 2 2
9	9008025-1	SCR PHL PAN HD #2-56 X 5/8 LG	KY11-JI 2 2 2 2 2 2 2
10	1210790-0-0	SWITCH SPOT #10	KY11-JJ 1 1 1 1 1 1 1
11	G-MD-7409444-0-0	ACTUATOR REWORK	KY11-JK 1 1 1 1 1 1 1
12	1210909-1	INDICATOR	KY11-JL 2 2 2 2 2 2 2
13	B-IA-7409444-0-0	DETENT	KY11-JM 1 1 1 1 1 1 1
14	9006686	WASH #2 SPLIT LOCK	KY11-JN 5 5 5 5 5 5 5
15	9006000-4	SCR BINDER HD #2-56 X3/16 LG	KY11-JO 2 2 2 2 2 2 2
16	1210904-1	SWITCH AND SPRING (GREEN SWITCH 221 8201-001)	KY11-JP 1 1 1 1 1 1 1
17	C-UA-BC08R-03	I/O CABLE (3'-0" LG)	KY11-JQ 1 1 1 1 1 1 1
18	4901077	LUBE (FOR CAM LOCK)	KY11-JR A/RA/BA/CA/DA/EA/FA/GA/HA/IA/JA/KA/LA/MA/NA/OA/PA/QA/RA/SA/TA/UA/VA/WA/XA/YA/ZA
19	B-IA-7409730-0-0	JUMPER, POWER	KY11-JS 2 2 2 2 2 2 2
20	B-MD-7409868-0-0	SWITCH ADAPTER TAPE	KY11-JT 1 1 1 1 1 1 1
21	D-MD-7409867-0-0	EXTENDER LEAF REWORK (MOTOR)	KY11-JU 1 1 1 1 1 1 1
22	9006449-8	SCR PAN HD #2-56 X 3/4 LG	KY11-JV 2 2 2 2 2 2 2

TITLE
CONSOLE ASSY (PDP11/05)
ASSY NO. D-UA-KY11-J-0
SIZE CODE A PL
SHEET 1 OF 2
DIST G

DEC FORM 110 (325) 1031 N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. ROBICHAUD
DATE 12-8-71
ENG G. GRAHAM
DATE 4-5-72

CHECKED C. TESCHNER
DATE 5-1-72
PROD R. K. PETERSON
DATE 5-10-72

SECTION 1
ISSUED SECT. 1

ITEM NO	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	B-IA-7409374-4-0	BEZEL CONTROL (1110)	KY11-JA 1 1 1 1 1 1 1
24	A-PS-1210982-0-0	KEY LOCK SWITCH	KY11-JB 1 1 1 1 1 1 1
25	B-IA-7409374-5-0	BEZEL CONTROL (UC15)	KY11-JC 1 1 1 1 1 1 1
26	C-PS-3611275-0-0	LOGO (PDP-1105) NOTE VARIATIONS	KY11-JD 1 1 1 1 1 1 1
27	D-IA-7409431-1-0	PANEL CONTROL (1105)	KY11-JE 1 1 1 1 1 1 1
28	9009210-1	ADHESIVE TRANSFER TAPE 1/2 WIDE	KY11-JF A/RA/BA/CA/DA/EA/FA/GA/HA/IA/JA/KA/LA/MA/NA/OA/PA/QA/RA/SA/TA/UA/VA/WA/XA/YA/ZA
29	1211052	CONSOLE PROTECTIVE COVER	KY11-JG 1 1 1 1 1 1 1
30	D-IA-7409431-3-0	PANEL CONTROL (1110)	KY11-JH 1 1 1 1 1 1 1
31	D-IA-7409768-0-0	PANEL CONTROL (GT40)	KY11-JI 1 1 1 1 1 1 1
32	C-PS-3611275-4-0	LOGO (DEC GRAPHIC)	KY11-JJ 1 1 1 1 1 1 1
33	C-PS-3611275-5-0	LOGO (UC15)	KY11-JK 1 1 1 1 1 1 1
34	D-IA-7409431-4-0	PANEL CONTROL (UC15)	KY11-JL 1 1 1 1 1 1 1
35	C-UA-BC08R-64	IØ CABLE (4'-0" LG)	KY11-JM 1 1 1 1 1 1 1
36	D-IA-7411393-0-0	INDICATOR PANEL (INDUCTIAL)	KY11-JN 1 1 1 1 1 1 1
37	G-MD-7411728-0-0	KEY LOCK SWITCH, REWORK	KY11-JO 1 1 1 1 1 1 1
38	9009589	RETAINING RING .025 THK	KY11-JP 1 1 1 1 1 1 1
39	9009339	TAPE CLOTH WATERPROOF 2 WIDE GRAY	KY11-JQ 1 1 1 1 1 1 1

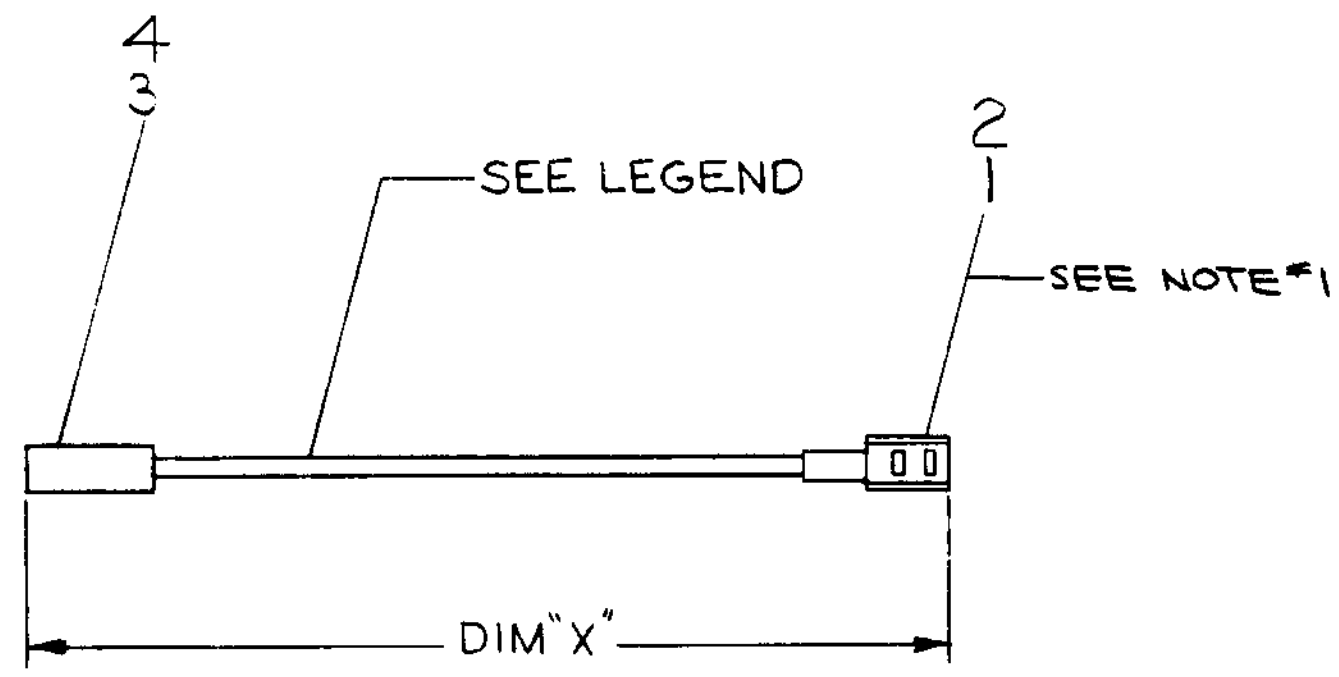
TITLE
CONSOLE ASSY (PDP11/05)
ASSY NO. D-UA-KY11-J-0
SIZE CODE A PL
SHEET 2 OF 2
DIST G

DEC FORM 110 (325) 1031 N870
DRA 110

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

LEGEND			
NUMBER	DIM "X"	COLOR	ITEM
7409730-01	5 1/2"	BLACK	5

NOTES:
 1. ITEM *2 (SHRINK TUBING) TO COVER CONTACT AREA OF ITEM *1 (SOLDERLESS CONN.)



A/R WIRE, #18 AWG, BLK	9107278-00	5
1 MINI FASTAB #60291-1	1210820-2	4
1 HOUSING, 1-480417-C	1210820-1	3
1 TUBING, SHRINK (WHITE)	9107252	2
1 SOLDERLESS CONN.-50902	9007917	1

FIRST USED ON OPTION MODEL
 PDP-1105

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			

REV.

CHANGE NO.

CHK

DRN. <i>CB McCoy</i>	DATE 4-17-72
CHK'D. <i>C. Teschner</i>	DATE 4-19-72
ENG. <i>J. F. ...</i>	DATE 4-19-72
PROJ. ENG. <i>W. V. ...</i>	DATE 4-28-72
PROD. <i>...</i>	DATE 4-28-72
NEXT HIGHER ASSEMBLY <i>+</i>	
SCALE NONE	
SHEET 1 OF	

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE
 JUMPER, POWER

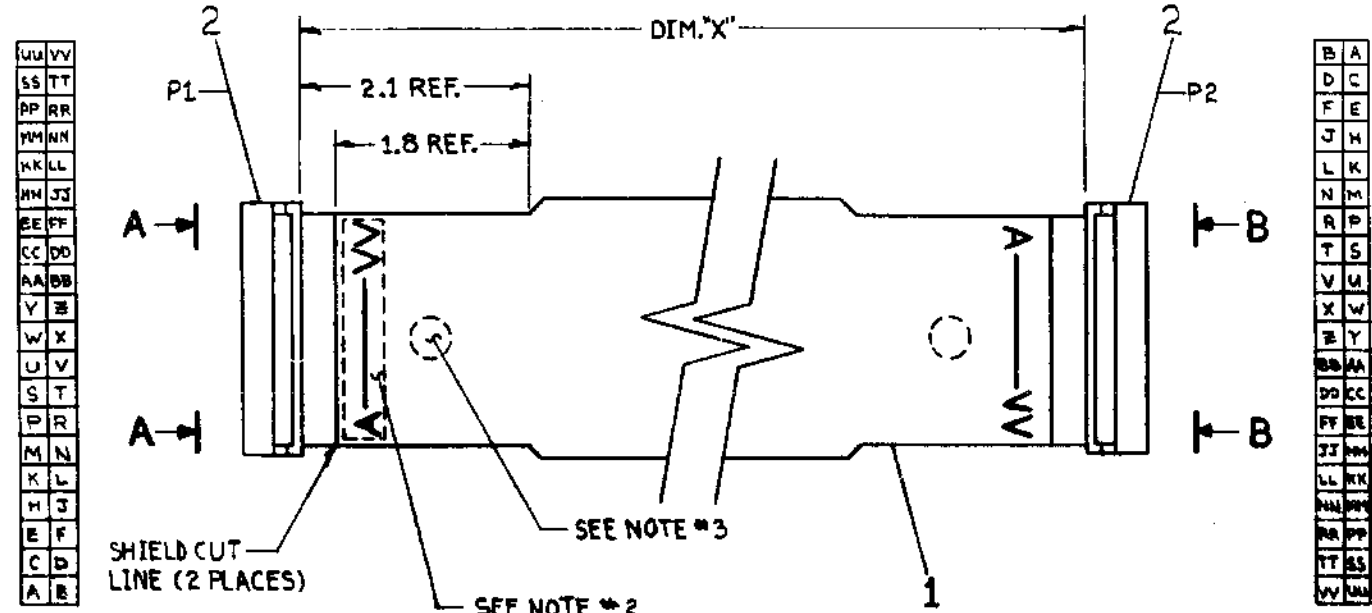
SIZE	CODE	NUMBER	REV
B	IA	7409730-0-C	

ALL DIMENSIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL BE KEPT CONFIDENTIAL. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

WIRE TABLE			
FROM	TO	FROM	TO
P1-A	P2-VV	P1-Y	P2-X
P1-B	P2-UU	P1-Z	P2-W
P1-C	P2-TT	P1-AA	P2-V
P1-D	P2-SS	P1-BB	P2-U
P1-E	P2-RR	P1-CC	P2-T
P1-F	P2-PP	P1-DD	P2-S
P1-G	P2-NN	P1-EE	P2-R
P1-H	P2-MM	P1-FF	P2-Q
P1-I	P2-LL	P1-HH	P2-N
P1-J	P2-KK	P1-IT	P2-M
P1-K	P2-JJ	P1-KK	P2-L
P1-L	P2-IH	P1-LI	P2-K
P1-M	P2-FF	P1-MM	P2-J
P1-N	P2-EE	P1-NN	P2-H
P1-O	P2-DD	P1-PP	P2-F
P1-P	P2-CC	P1-RR	P2-E
P1-Q	P2-BB	P1-SS	P2-D
P1-R	P2-AA	P1-TT	P2-C
P1-S	P2-Z	P1-UU	P2-B
P1-T	P2-Y	P1-VV	P2-A

LEGEND		
NUMBER	DIM "X"	PRECUT LENGTH
BCØ8R-Ø1	1 FT	1 FT 1.5 IN ± .01 IN
BCØ8R-Ø2	2 FT	2 FT 1.5 IN ± .01 IN
BCØ8R-Ø3	3 FT	3 FT 1.5 IN ± .01 IN
BCØ8R-Ø4	4 FT	4 FT 1.5 IN ± .01 IN
BCØ8R-Ø6	6 FT	6 FT 1.5 IN ± .01 IN
BCØ8R-Ø8	8 FT	8 FT 1.5 IN ± .01 IN
BCØ8R-1Ø	12 FT	12 FT 1.5 IN ± .01 IN
BCØ8R-12	12 FT	12 FT 1.5 IN ± .01 IN
BCØ8R-2Ø	20 FT	20 FT 1.5 IN ± .01 IN
BCØ8R-25	25 FT	25 FT 1.5 IN ± .01 IN
BCØ8R-3Ø	30 FT	30 FT 1.5 IN ± .01 IN
BCØ8R-5Ø	50 FT	50 FT 1.5 IN ± .01 IN
BCØ8R-6Ø	60 FT	60 FT 1.5 IN ± .01 IN
BCØ8R-75	75 FT	75 FT 1.5 IN ± .01 IN
BCØ8R-AØ	100 FT	100 FT 1.5 IN ± .01 IN
BCØ8R-A3	130 FT	130 FT 1.5 IN ± .01 IN
BCØ8R-A6	160 FT	160 FT 1.5 IN ± .01 IN

NOTES:
 1. ASSEMBLE THIS CABLE PER PROCESS SPEC #7606485-0-0.
 2. CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE OF CABLE IN THIS AREA AS SHOWN.
 3. INSPECTION & TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.



VIEW A-A
CONN. LEGEND REF.

VIEW B-B
CONN. LEGEND REF.

REV	CHANGE NO.	DATE	BY
1	BCØ8R-00004	J	P. GARDNER
2	REVISED & REDRAWN	7-16-73	P. GARDNER
3		7-17-73	

QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	CONNECTOR, 40 SOCKET	1211206	2
A/R	CABLE, 40 COND. FLAT W/SHIELD	1700004	1

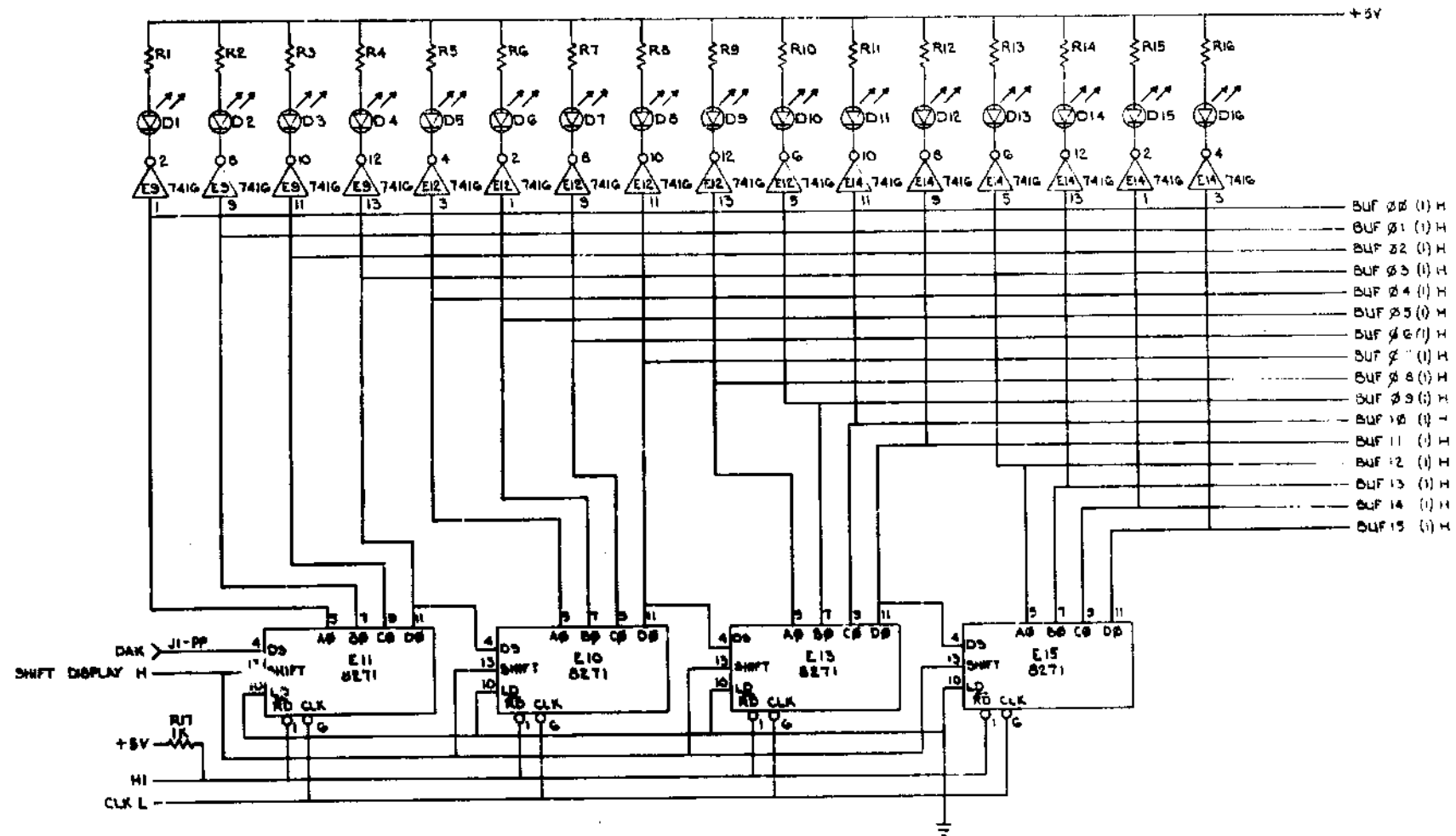
FIRST USED ON OPTION/MODEL		DATE	
DRN.	D. FONTAINE	8-28-70	
CHK'D.	J. FLEMING	8-28-70	
ENG.	P. GARDNER	9-3-70	
PROJ. ENG.	P. GARDNER	9-3-70	
PROD.	DONALD	9-4-70	

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES			digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
DECIMALS	ANGLES		
.XXX - .005	10° 30'	TITLE	
.XX - .02		BCØ8R	
.X - .1		IO CABLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	NEXT HIGHER ASSY.	SIZE CODE	NUMBER
MATERIAL		C UA	BCØ8R-0-0
FINISH	SCALE NONE	DIST.	

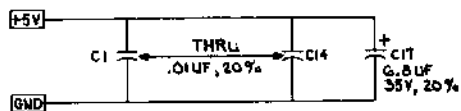
A B C D

REV. NUMBER

UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4 W, 5%
CAPACITORS = 100V, 5%
DIODES ARE LIGHT EMITTING
PIN 14 = +5V, PIN 7 = GND ON DEC 7404, 7416, 7417
PIN 16 = +5V, PIN 6 = GND ON DEC 8271, 74123, 74183



UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4 W, 5%
CAPACITORS = 100V, 5%
DIODES ARE LIGHT EMITTING
PIN 14 = +5V, PIN 7 = GND ON DEC 7404, 7416, 7417
PIN 16 = +5V, PIN 6 = GND ON DEC 8271, 74123, 74183



REV	DATE	BY	CHK	DESCRIPTION
1	11-6-72	B. ARMSTRONG		REVISED
2	11-6-72	B. ARMSTRONG		REVISED
3	11-6-72	B. ARMSTRONG		REVISED
4	11-6-72	B. ARMSTRONG		REVISED
5	11-6-72	B. ARMSTRONG		REVISED
6	11-6-72	B. ARMSTRONG		REVISED
7	11-6-72	B. ARMSTRONG		REVISED
8	11-6-72	B. ARMSTRONG		REVISED
9	11-6-72	B. ARMSTRONG		REVISED
10	11-6-72	B. ARMSTRONG		REVISED
11	11-6-72	B. ARMSTRONG		REVISED
12	11-6-72	B. ARMSTRONG		REVISED
13	11-6-72	B. ARMSTRONG		REVISED
14	11-6-72	B. ARMSTRONG		REVISED
15	11-6-72	B. ARMSTRONG		REVISED
16	11-6-72	B. ARMSTRONG		REVISED
17	11-6-72	B. ARMSTRONG		REVISED
18	11-6-72	B. ARMSTRONG		REVISED
19	11-6-72	B. ARMSTRONG		REVISED
20	11-6-72	B. ARMSTRONG		REVISED

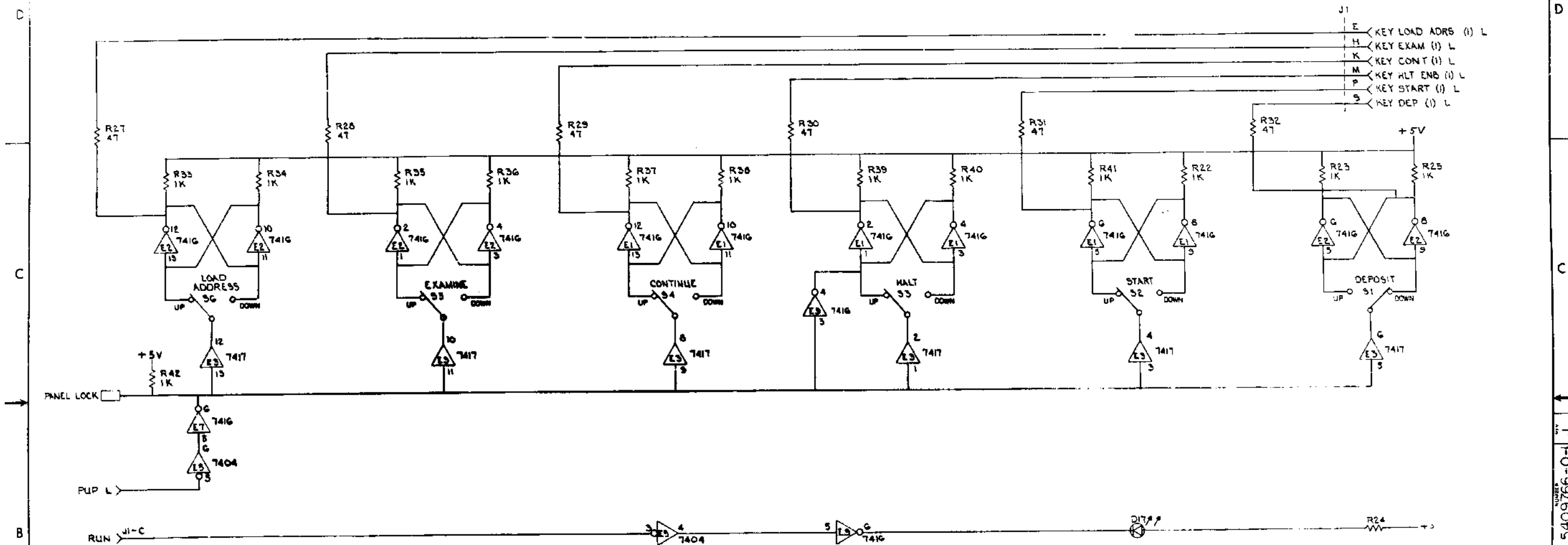
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	

DRN <i>Roger J. Drouette</i>	DATE 28 Jun 73	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHKD <i>R. Krishna</i>	DATE 26 Jun 72	
EMD <i>R. Krishna</i>	DATE 10-10-72	TITLE 11/05 CONSOLE
PROL <i>R. Krishna</i>	DATE 8-10-72	
REV <i>R. Krishna</i>	DATE 2-28-72	NEXT HIGHER ASSY W-1A6AC9766-0-0
SCALE		
SHEET OF 3	DIST	SIZE CODE DICS 5409766-0-1

DATE CODE NUMBER
DICS 5409766-0-1 J

1. All components shall conform to the specifications herein and the data sheets of the manufacturer. 2. All components shall be of the type specified herein and shall not be substituted without the approval of the manufacturer or user of same. 3. All components shall be of the type specified herein and shall not be substituted without the approval of the manufacturer or user of same.

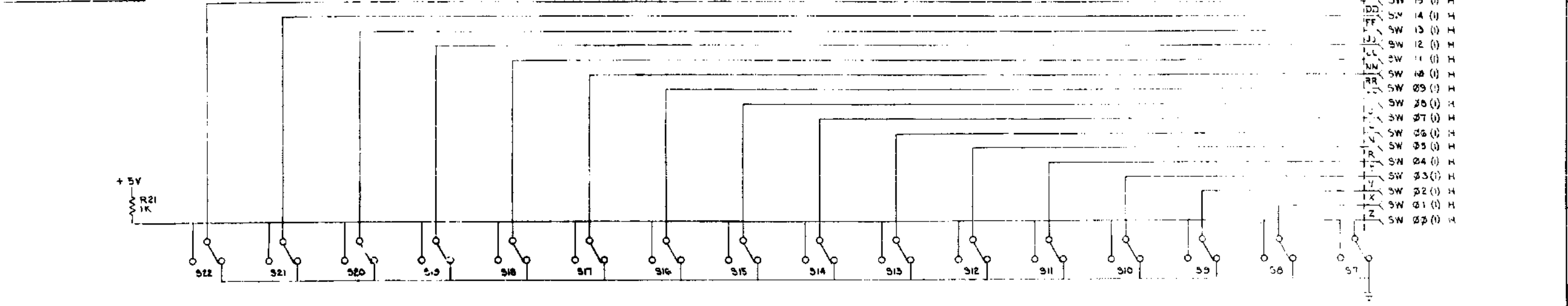
1-0-992609 DCS 5409766-0-1



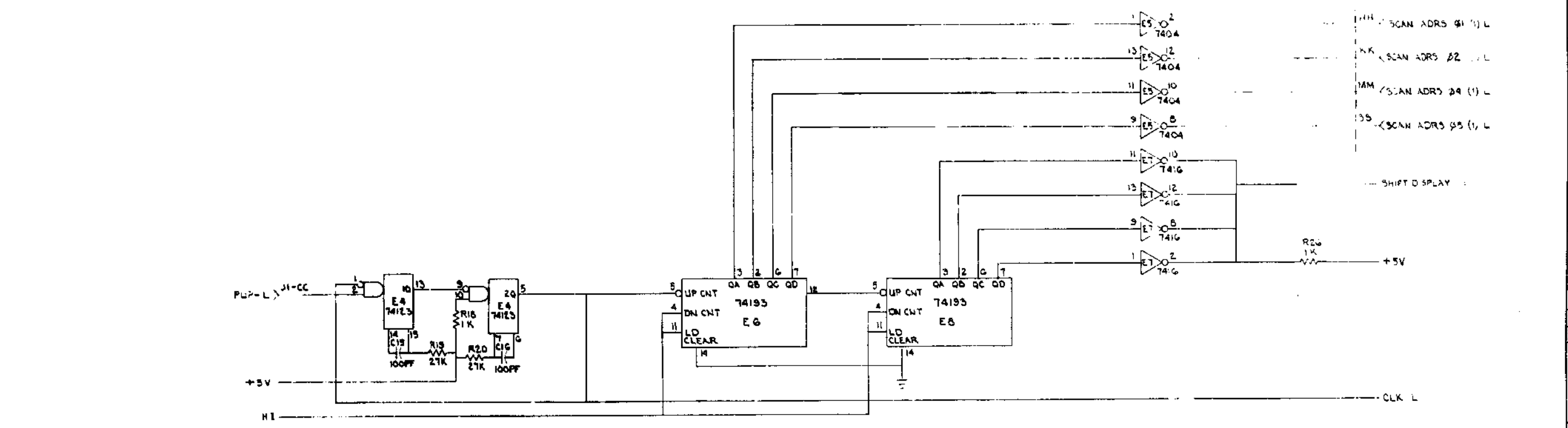
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
DRN	Roger J. D'Amico	DATE	12/14/72	digital EQUIPMENT CORPORATION WATYARD MASSACHUSETTS TITLE 11/05 CONSOLE
CHK'D	D'Amico	DATE	12/14/72	
ENG	R. J. Smith	DATE	3-20-72	
PROL ENG	R. J. Smith	DATE	1-10-72	
PROD	R. J. Smith	DATE	8-20-72	
NEXT HIGHER ASSY				
E-3A5409766-0-0				
DEC NO	EIA NO.	DEC NO	EIA NO	SCALE
SEMICONDUCTOR CONVERSION CHART				SCALE
SHEET 2 OF 3				DIST

DCS 5409766-0-1 J

1. All specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or used in whole or in part without the written permission of Digital Equipment Corporation.



- J1
- 15 SW 15 (1) H
- 14 SW 14 (1) H
- 13 SW 13 (1) H
- 12 SW 12 (1) H
- 11 SW 11 (1) H
- 10 SW 10 (1) H
- 9 SW 09 (1) H
- 8 SW 08 (1) H
- 7 SW 07 (1) H
- 6 SW 06 (1) H
- 5 SW 05 (1) H
- 4 SW 04 (1) H
- 3 SW 03 (1) H
- 2 SW 02 (1) H
- 1 SW 01 (1) H



- 15H < SCAN ADRS 01 (1) L
- 14H < SCAN ADRS 02 (1) L
- 13H < SCAN ADRS 03 (1) L
- 12H < SCAN ADRS 04 (1) L
- 11H < SCAN ADRS 05 (1) L

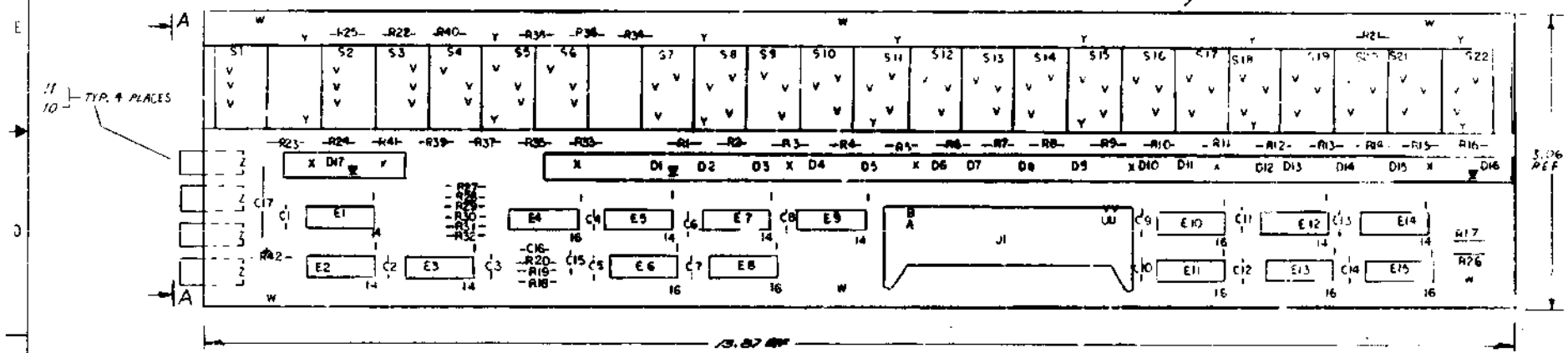
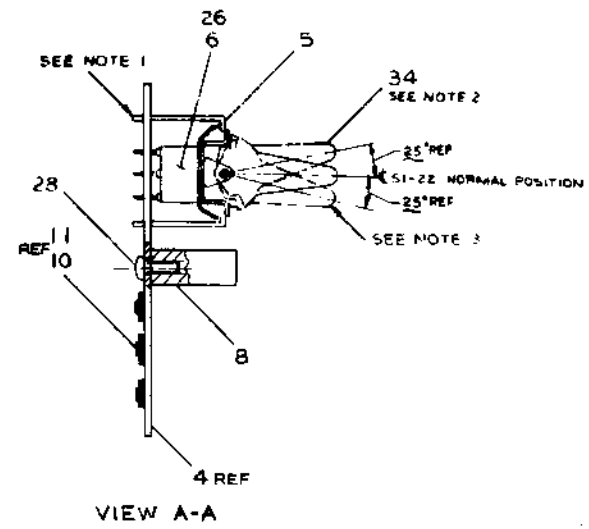
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																		
PARTS LIST																						
ETCH BOARD REV E																						
<table border="1"> <tr> <td>DRN</td> <td>DATE</td> <td>20 JAN 72</td> </tr> <tr> <td>CHKD</td> <td>DATE</td> <td>16 JAN 72</td> </tr> <tr> <td>ENGR</td> <td>DATE</td> <td>16 JAN 72</td> </tr> <tr> <td>PRD</td> <td>DATE</td> <td>16 JAN 72</td> </tr> <tr> <td>PROJ</td> <td>DATE</td> <td>16 JAN 72</td> </tr> <tr> <td>NEXT NUMBER ASSY</td> <td colspan="2">B-2A-5409766-0-0</td> </tr> </table>					DRN	DATE	20 JAN 72	CHKD	DATE	16 JAN 72	ENGR	DATE	16 JAN 72	PRD	DATE	16 JAN 72	PROJ	DATE	16 JAN 72	NEXT NUMBER ASSY	B-2A-5409766-0-0	
DRN	DATE	20 JAN 72																				
CHKD	DATE	16 JAN 72																				
ENGR	DATE	16 JAN 72																				
PRD	DATE	16 JAN 72																				
PROJ	DATE	16 JAN 72																				
NEXT NUMBER ASSY	B-2A-5409766-0-0																					
SEMICONDUCTOR CONVERSION CHART																						
DEC NO	EIA NO	DEC NO	EIA NO																			

digital EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE: 1/05 CONSOLE

SHEET CODE: D 05
NUMBER: 5409766-0-1
REV: J

NOTES:
 1. ATTACH SWITCH BARCKET TO THE
 WITH BRACKET (1000 70) & TIGHTEN IN
 THE END OF THE SWITCH BARCKET WITH
 TWISTING TOOL # 140-7002103
 (4 PLACES)
 2. ASSEMBLE SE 3, 4, 5 & 6 AS SHOWN
 3. ASSEMBLE SE 11 & 12 IN THE



QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
1	E1	RES. 22K 1/4W 5%	1801322	18
1	E2	RES. 100 1/4W 5%	1801322	18
1	E3	RES. 1K 1/4W 5%	1800365	17
1	E4	RES. 47 1/4W 5%	1800202	16
1	E5	DI-CAP. 0.1UF 16V 20%	1800610	15
1	E6	DI-CAP. 0.1UF 35V 20%	1800067	14
1	E7	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E8	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E9	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E10	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E11	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E12	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E13	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E14	DI-CAP. 0.1UF 16V 5%	1800076	13
1	E15	DI-CAP. 0.1UF 16V 5%	1800076	13
1	J1	SWITCHES TOGGLE	1210840	9
1	U1	SUPPORT SWITCHES	540902102-0	8
1		ETCH CIRCUIT BOARD	540902102-0	7
1		MODULE 800 HISTORY	540902102-0	6
1		CIRCUIT SCHEMATIC	540902102-0	5
1		A.P. COMPONENTS AND LOCATION	540902102-0	4

REV	DATE	BY	CHKD	DESCRIPTION
1				

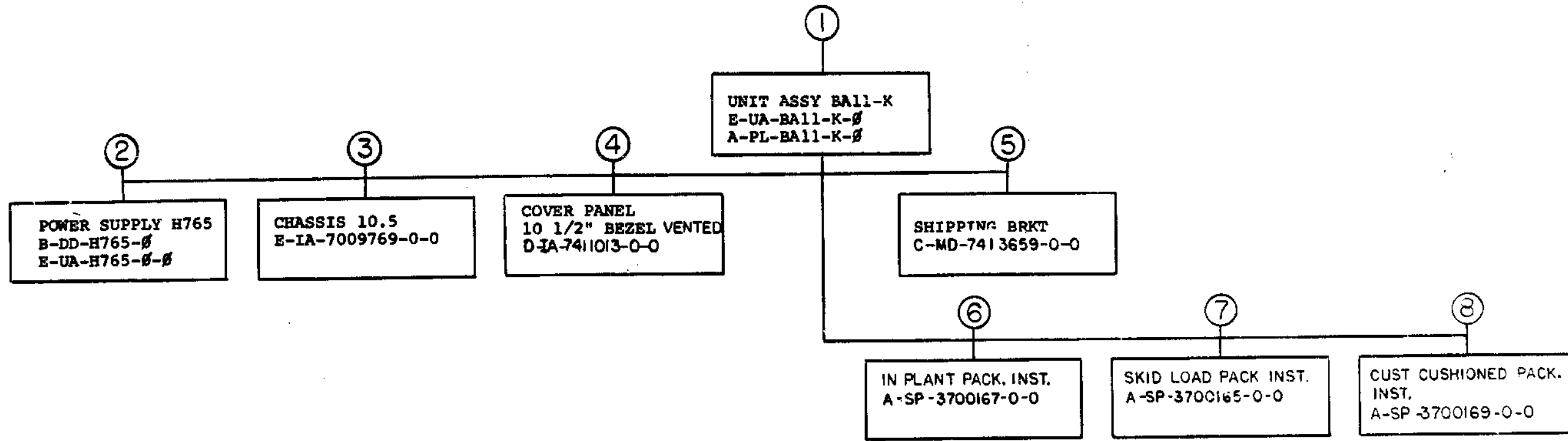
ETCH BOARD REV E

EQUIPMENT CORPORATION

ETCH BOARD ASSY. WITH CONSOLE

8 LA 540976-0-0

SEMICONDUCTOR CONVERSION CENTER



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BALL-K	2 OF 4	B	DD	BALL-K	E

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		ELECTRICAL						
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-BALL-K-Ø	E	2	UNIT ASSY BALL-K									
X			A-PL-BALL-K-Ø	E	1	UNIT ASSY BALL-K PL									
			A-SP-BALL-K-6		8	BALL-K BASIC CHECKOUT AND ACCEPTANCE PROCEDURE									
			A-SP-BALL-K-7		10	BALL-K BASIC ASSEMBLY PROCEDURE									
C		2	B-DD-H765-Ø	*	5	POWER SUPPLY H765									

CUSTOMER PRINT SET CODES
 X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
 \$ = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
 DRAWING DIRECTORY BALL-K

SHEET 3 OF 4
 SIZE CODE B DD
 NUMBER BALL-K

REV
 E

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL						
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
		1	E-UA-BALL-K-Ø	E	2	UNIT ASSY BALL-K		X	6	A-SP-3700167-0-0	-	3	IN PLANT PACK, INST.		
			A-PL-BALL-K-Ø	E	2	UNIT ASSY BALL-K PL				A-PS-9905650-0-0	-	2	REGULAR SLOTTED CARTON		
			D-IA-7009768-0-0		1	COVER, CHASSIS				A-PS-9905335-0-0	-	2	BEZEL PROTECTOR		
			D-PS-1211825-0-0		3	SLIDE, 3 POS TILT				A-PS-9905644-0-0	-	2	REAR PROTECTOR		
			D-MD-7412184-0-0		1	CABLE, TROUGH CHASSIS				A-PS-9905323-0-0	A	2	SIDE PROTECTOR		
X			D-UA-BC11A-1Ø-Ø		1	UNIBUS, CABLE, 10 FT				A-PS-9905129-0-0	A	4	POLY BAG 20 x 13 x 40in 1-1/2 mil.		
X			B-CS-M919-Ø-1	#	1	BUS CONNECTOR M919									
X			B-CS-M929-0-1	#	1	BUS CONNECTOR M929									
			D-PS-1211630-00		1	CARD GUIDE			X	7	A-SP-3700165-0-0	-	4	SKID LOAD PACK, INST.	
			A-DC-5309414-0		1	DECAL UL					A-PS-1210568-0-0	-	2	CUSHIONED SKID	
			A-DC-5309413-0		1	DECAL NFPA					A-PS-9905445-0-0	-	2	HALF OVERLAP SLOTTED CARTON (TOP)	
											A-PS-9905419-0-0	-	2	FLANGED TUBE (BOTTOM)	
									X	8	A-SP-3700169-0-0	-	2	CUST. CUSHIONED PACK, INST.	
											A-PS-9905645-0-0	-	2	FULL TELESCOPE CAP	
											A-PS-9905642-0-0	-	2	FOAM PAD	
											A-PS-9905643-0-0	-	2	FOAM WITH CORRUGATED SIDE WALL ASSEMBLY	
		2	B-DD-H765-Ø		5	DWG DIRECTORY H765									
			E-UA-H765-Ø-Ø		2	POWER SUPPLY H765									
		3	E-IA-7009769-0-0		1	CHASSIS, 10.5									
			E-IA-7411703-0-0		1	CHASSIS, FRONT									
			E-IA-7411707-0-0		1	CHASSIS, SIDE									
			D-MD-7411706-0-0		1	BRACKET, HAT									
			D-MD-7411705-0-0		1	BRACKET, CARD GUIDE									
			C-MD-7412185-0-0		1	PLATE CABLE									
		4	D-IA-7411013-0-0		1	COVER PANEL 10 1/2 BEZEL									
		5	C-MD-7413659-0-0		1	SHIPPING BRKT									

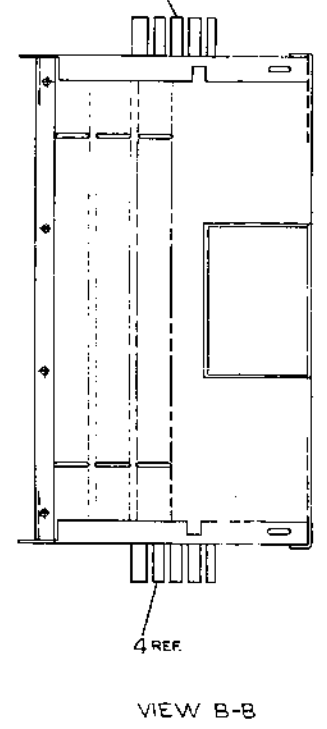
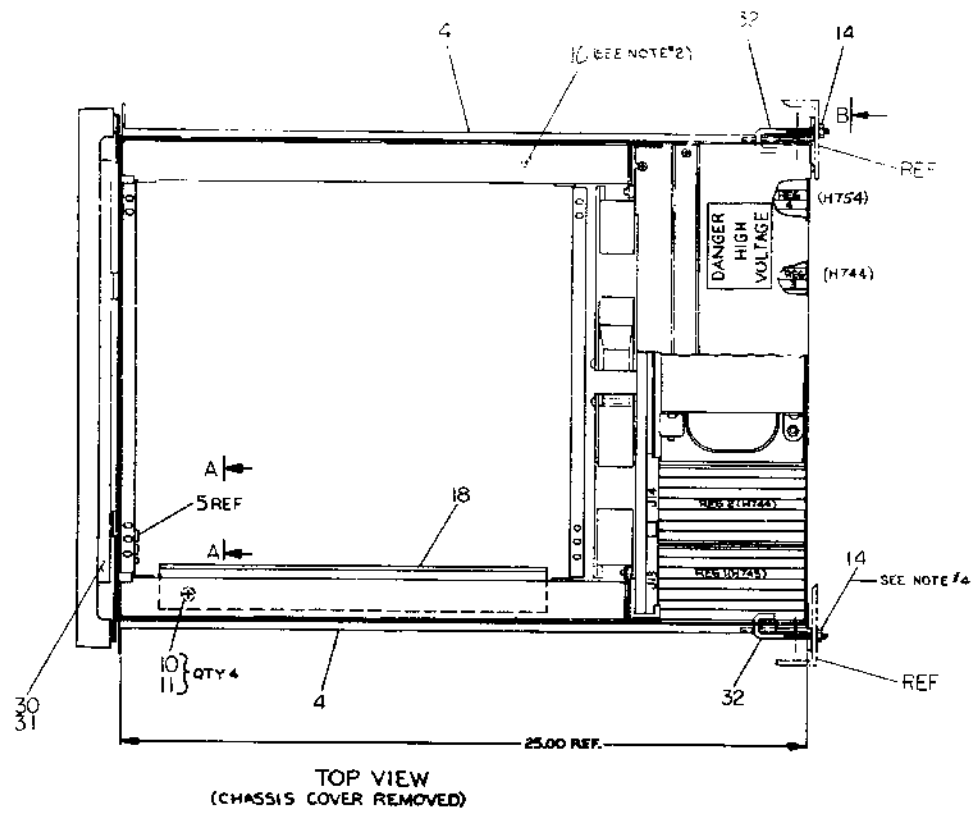
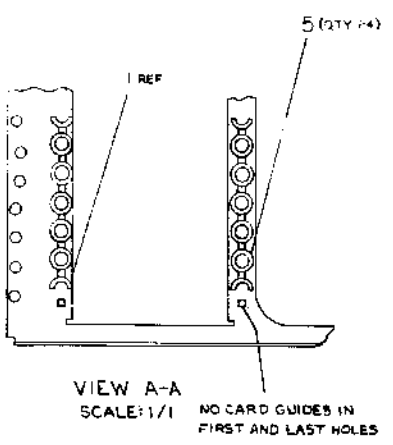
CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
DRAWING DIRECTORY BALL-K

SHEET 4 OF 4
SIZE CODE
6 DD

NUMBER
BALL-K

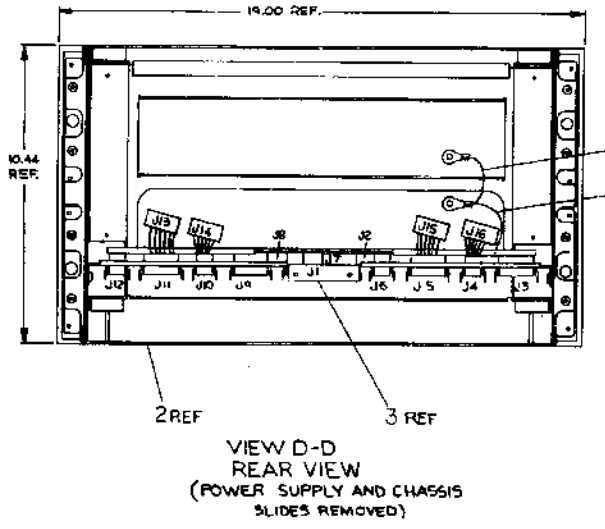
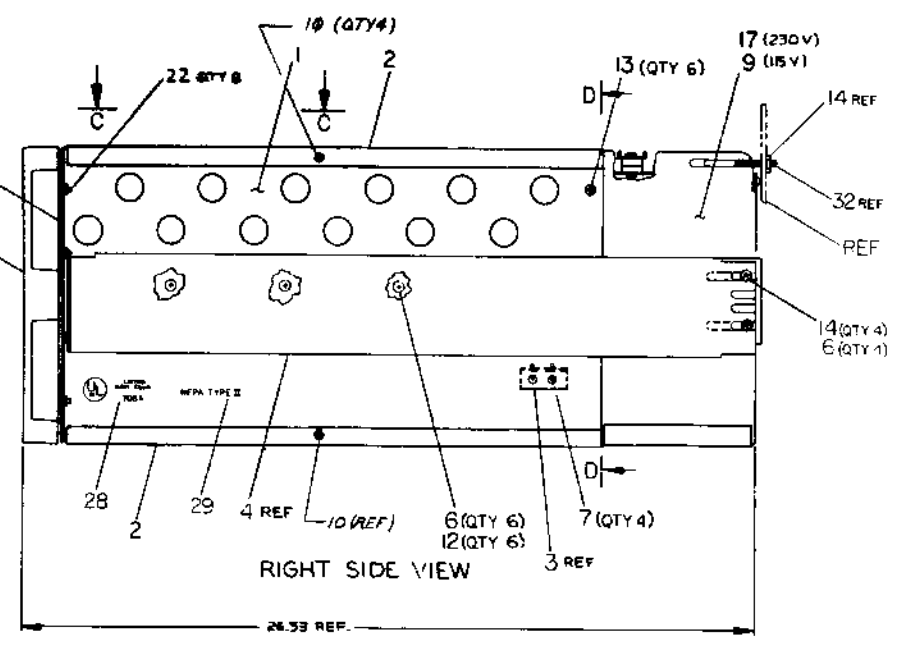
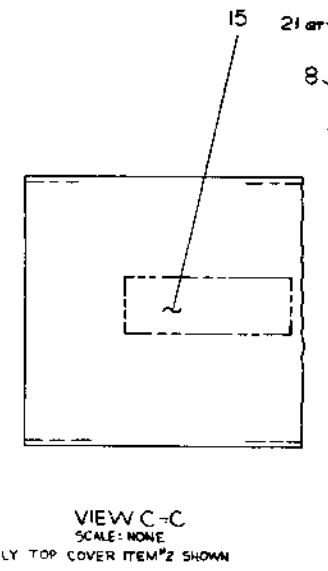
RFV
E



NUMBER	VARIATION
BAL-KK	115V 50/60HZ
BAL-KF	230V 50/60HZ
BAL-KH	115V 50/60HZ
BAL-KJ	230V 50/60HZ

* FOR MFG USE ONLY

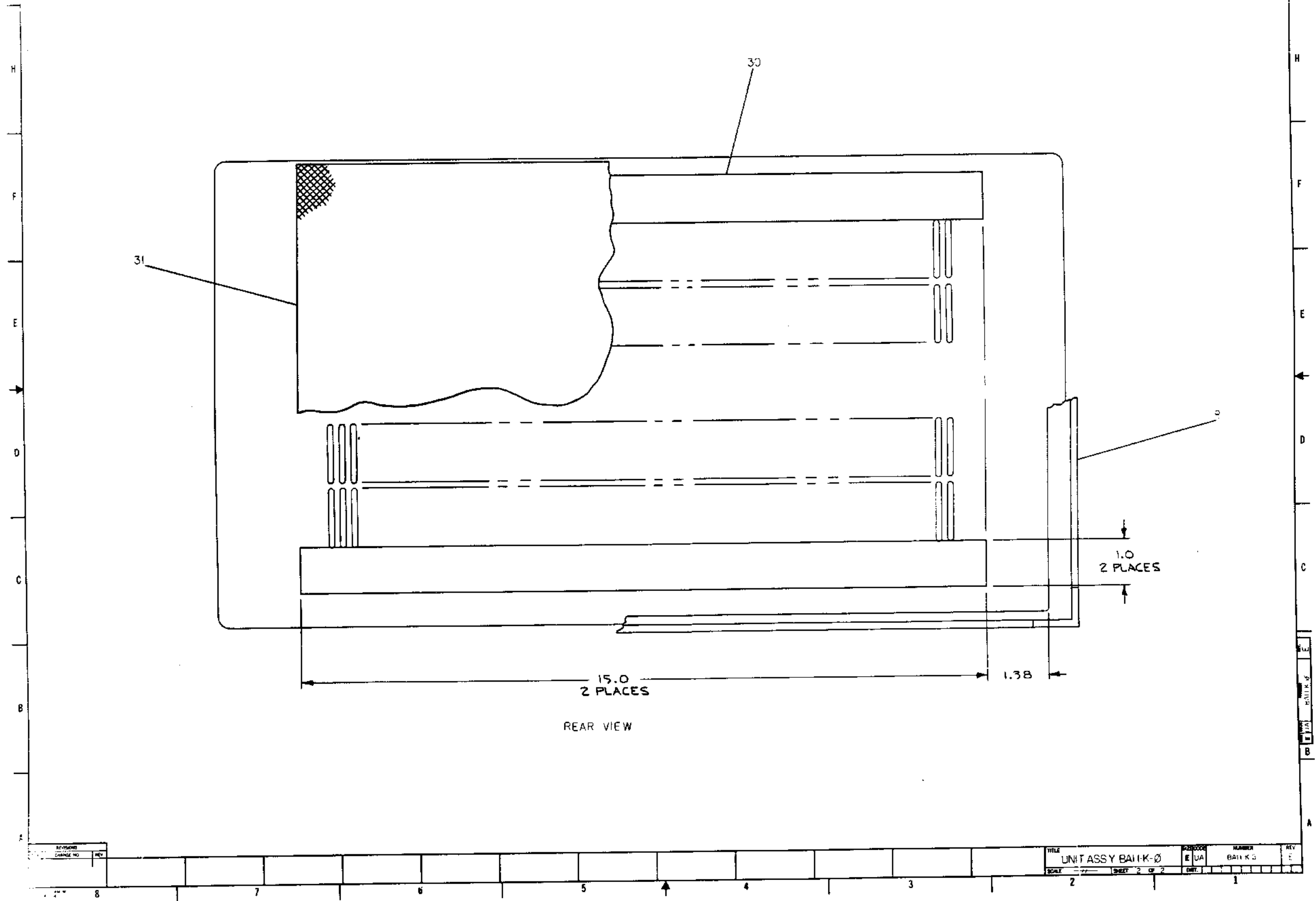
- NOTES:
- CAUTION: OFF SHEET PARTS LISTS EXISTS SEE A-PL-BAL-K-K
 - GROUND LUG OF PWR DISTRIBUTION BD. ATTACHES TO SCREW ON CHASSIS
 - TIGHTEN ALL SYSTEM MNT. MOUNTING SCREWS TO 18 IN.-LBS WITH A TORQUE SCREW DRIVER
 - ATTACH SHIPPING BRACKET'S TO POWER SUPPLY AND BOLT THROUGH HOLE IN CABINET P/10.



REV.	DESCRIPTION	DATE	BY	CHKD.	QTY.	DISPOSITION	PART NO.
1	INITIAL REV. OF DRAWING	11-15-78	BAL-K
2	BAL-K
3	BAL-K
4	BAL-K
5	BAL-K
6	BAL-K
7	BAL-K
8	BAL-K

PARTS LIST		TITLE	
...	...	UNIT ASS'Y	BAL-K
...	...	BAL-K	BAL-K
...	...	BAL-K	BAL-K

UNIT ASSY BAIK-Ø



REV	CHANGE NO	DESCRIPTION

REV	DESCRIPTION	DATE	BY	CHKD

UNIT ASSY BAIK-Ø
SCALE: 1:1
SHEET 2 OF 2
DWT. 1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY BILL BLODGET
DATE 6/26/74
ENG P. E. JANSON
DATE 8-23-74
CHECKED D. HEALY
DATE 6/27/74
PROD *W. Lucas*
DATE 8/23/74
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
1	E-IA-7009769-0-0	CHASSIS 10.5	BALL-KH 1 1 1
2	D-IA-7009768-0-0	COVER, CHASSIS	BALL-KH 2 - -
3	D-CS-5410864-0-1	POWER DISTRIBUTION BOARD	REF REF REF REF
4	D-PS-1211825-0-0	SLIDE, 3 POS TILT	lpr lpr - -
5	D-PS-1211630-0-0	CARD GUIDE	24 24 24 24
6	9006071-3	SCREW, PHL TRUSS HD #10-32 X .38	10 10 4 4
7	9006020-2	SCREW, PHL FLAT HD #6-32 X .25	4 4 4 4
8	D-IA-7411013-0-0	COVER, PANEL 10 1/2 BEZEL (SNAP-ON/VENTED)	1 1 - -
9	B-DD-H765-A	POWER SUPPLY H765-A 115V 50/60 HZ	1 - 1 -
10	9006020-3	SCREW, PHL, TRUSS HD #6-32 X .25	5 5 5 5
11	9006023	WASHER EXTERNAL TOOTH #10	4 4 - -
12	9007651	WASHER EXTERNAL TOOTH #10	6 6 - -
13	9009599	SCREW, PHL FLAT HD (SPECIAL)	6 6 6 6
14	9006565	NUT, KEPS, #10-32	6 6 - -
15	DEC-3-(374)-1825-N1174	STICKER, "CONFIGURATION"	1 1 - -
16	D-IA-7010059-0-0	CHASSIS BRACKET, 180°	1 1 - -
17	B-DD-H765-B	POWER SUPPLY H765-B, 230V 50/60 HZ	- 1 - 1
18	D-MD-7412184-0-0	CABLE TROUGH CHASSIS	- - 1 1
19	9008408-1	SCR, PH, HD #10-32 X .25	1 1 2 2
20	D-UA-BC11A-10-0	UNIBUS CABLE, 10 FT	1 1 - -
21	1209224	LATCH MOLDING	4 4 - -
22	9008007-2	SCR PH HD FLT #10-32 X .25	8 8 - -

TITLE UNIT ASSY BALL-K
SIZE CODE A PL
ASSY NO. E-UA-BALL-K-0
NUMBER BALL-K-0
REV E
ECO NO BALL-K-000-0
SHEET 1 OF 2
DIST.

DEC FORM DEC 16 (325) 1031-N870
ORA 110

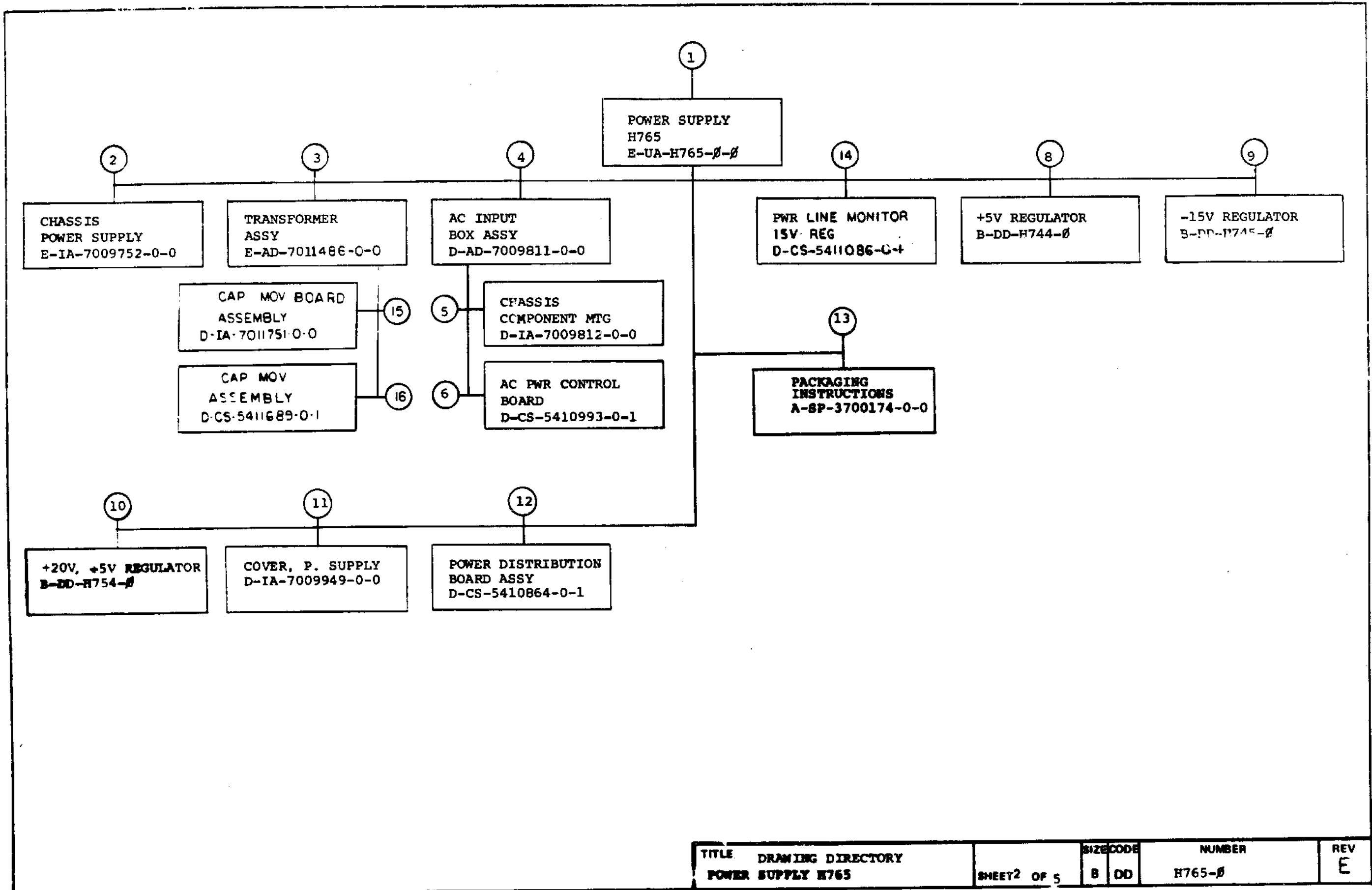
DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY BILL BLODGET
DATE 6/26/74
ENG P. E. JANSON
DATE 8-23-74
CHECKED D. HEALY
DATE 6/27/74
PROD W. LUCAS
DATE 8-23-74
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION
23	A-SP-3700167-0-0	IN PLANT PACK. INST.	BALL-KH 2
24	A-SP-3700165-0-0	SKID LOAD PACK INST.	BALL-KH 2
25	A-SP-3700169-0-0	CUST. CUSHIONED PACK. INST.	REF REF REF REF
26	A-SP-BALL-K-6	BALL-K BASIC CHECKOUT AND ACCEPTANCE PROCEDURE	REF REF REF REF
27	A-SP-BALL-K-7	BALL-K BASIC ASSEMBLY PROCEDURE	REF REF REF REF
28	A-DC-5309414-0	DECAL, UL	1 1 - -
29	A-DC-5309413-0	DECAL, NFPA	1 1 - -
30	21336-02	TAPE	1/2 1/2 - -
31	1211255-0-0	PRE FILTER	1 1 - -
32	C-MD-7413659-0-0	SHIPPING BRACKET	2 2 - -

TITLE UNIT ASSY BALL-K
SIZE CODE A PL
ASSY NO. E-UA-BALL-K-0
NUMBER BALL-K-0
REV F
ECO NO
SHEET 2 OF 2
DIST.

DEC FORM DEC 16 (325) 1031-N870
ORA 110



TITLE	DRAWING DIRECTORY	SIZE CODE	NUMBER	REV
POWER SUPPLY H765	SHEET 2 OF 5	B DD	H765-β	E

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		ELECTRICAL						
	MFG SET	FIND NO	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-H765-0 A-SP-H765-0-9	H	2	POWER SUPPLY H765 H765 POWER SUPPLY ASSEMBLY PROCEDURE		X		12	D-CS-5410864-0-1 D-IA-5010863-0-0 A-SP-5410864-0-8 A-SP-5410864-0-9	#	3 1	POWER DIST. BD. ASSY ETCHED CIRCUIT BOARD TEST PROCEDURE ASSEMBLY PROCEDURE	
X		3	E-AD-7011486-0-0 A-SP-7010014-0-8 A-CS-7010014-TA-1 A-UA-7010014-TA-0 A-PL-7010014-TA-0 A-SP-7011486-0-9	*		TRANSFORMER ASSY TEST PROCEDURE TESTER C.S. TESTER U.A. TESTER P.L. TRANSFORMER ASSY PROCEDURE		X		14	D-CS-5411086-0-1 A-SP-11/45-TA-2 A-SP-5411086-0-3 D-IA-7010138-0-0	#	4	PWR LINE MONITOR/15V REG TEST PROCEDURE ENGINEERING SPECIFICATION HARNESS INTERCONNECTION	
X		4	D-AD-7009811-0-0 A-SP-7009811-0-8 A-CS-7009811-TA-1 A-UA-7009811-TA-0 A-PL-7009811-TA-0 A-SP-7009811-0-9	#	2	AC INPUT BOX ASSY TEST PROCEDURE TESTER C.S. TESTER U. A. TESTER P.L. AC INPUT BOX ASSY PROCEDURE				15	D-IA-7011751-0-0			CAP MOV BOARD ASSY	
X		6	D-CS-5410993-0-1 A-SP-5410993-0-8 A-CS-5410993-TA-1 A-UA-5410993-TA-0 A-PL-5410993-TA-0	#	1	AC POWER CONTROL BD TEST PROCEDURE TESTER C. S. TESTER U.A. TESTER P.L.				16	D-CS-5411689-0-1			CAP MOV ASSY	
C		8	B-DD-H744-0	#	2	DRAWING DIRECTORY H744									
C		9	B-DD-H745-0	#	2	DRAWING DIRECTORY H745									
C		10	B-DD-H754-0	#	3	DRAWING DIRECTORY H754									

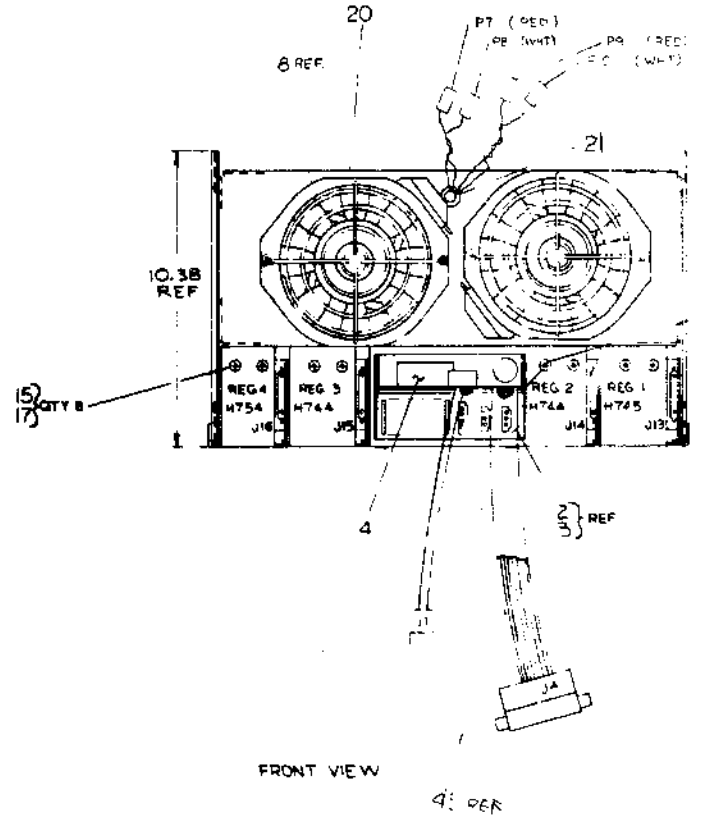
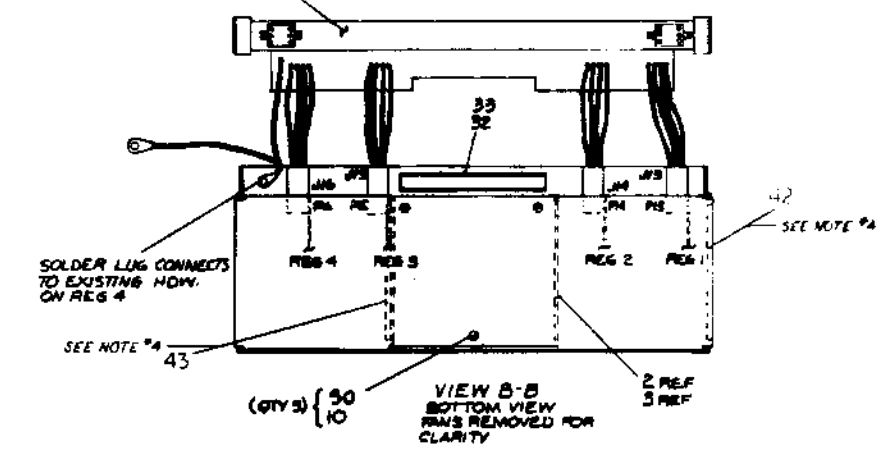
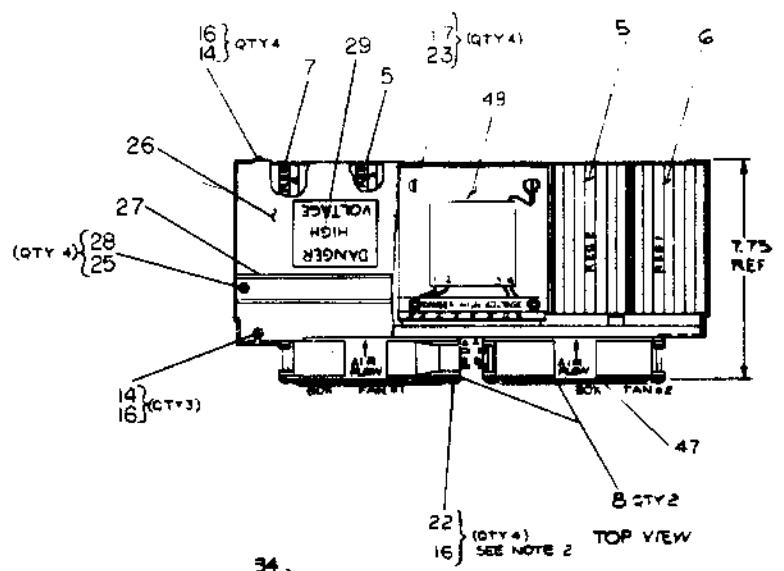
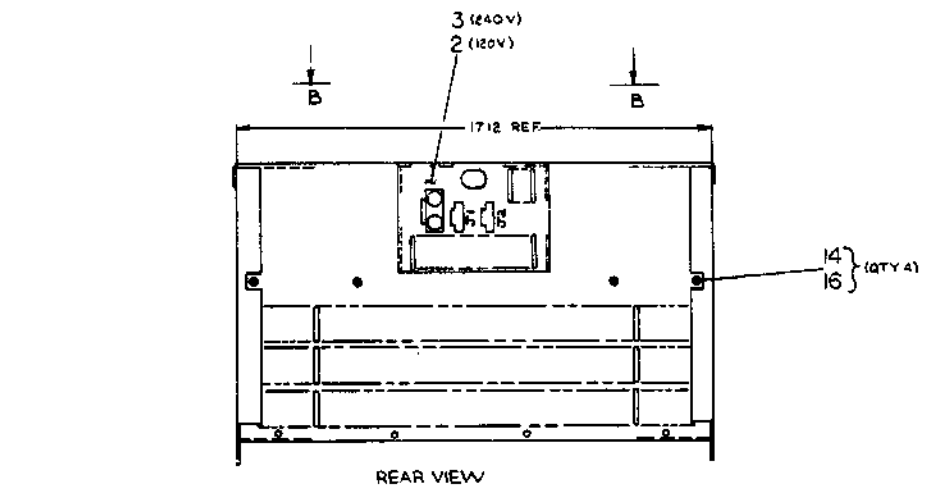
CUSTOMER PRINT SET CODES	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	TITLE	DRAWING DIRECTORY POWER SUPPLY H765	SIZE CODE	B DO	NUMBER	H765-0	REV	E
--------------------------	--	-------	--	-----------	------	--------	--------	-----	---

CUSTOMER PRINT SET		ELECTRICAL					CUSTOMER PRINT SET		MECHANICAL							
	MFG SET	FIND NO	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE		MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	
		1	E-UA-H765- β - β	H	2	POWER SUPPLY H765				6	D-CS-5410993-0-1	1	1	AC PWR CONTROL BD.		
			D-IA-7009950-0-0		1	THROUGH WIRE					K-CO-5410993-C-4	1	1	X-Y COORDINATE HOLE LOC.		
											D-AH-5410993-0-5	1	1	ASSY/DRILLING HOLE LAYOUT		
											B-MH-5410993-0-6	1	1	MODULE ECO HISTORY		
											5010992	REF		ETCH CIRCUIT BOARD		
		2	E-IA-7009752-0-0		1	CHASSIS, POWER SUPPLY										
			E-IA-7411682-0-0		1	CHASSIS, POWER SUPPLY										
			D-MD-7411685-0-0		1	SIDE, POWER SUPPLY										
			D-MD-7411684-0-0		1	HOUSING COMP, CHASSIS										
		3	E-AD-7011486-0-0		2	TRANSFORMER ASSY					8	B-DD-H744- β	2	2	DRAWING DIRECTORY H744	
			C-MD-7414301-0-0		1	COVER										
		4	D-AD-7009811-0-0		2	AC INPUT BOX ASSY										
			A-DC-7412303-0-0		1	DECAL 115V										
			D-AD-7010131-0-0		1	POWER CORD					10	B-DD-H754- β	3	3	DRAWING DIRECTORY H754	
			A-DC-7412380-0-0		1	DECAL 230V										
			D-IA-7010302-0-0		1	POWER CONTROL HARN.										
			D-IA-7010301-0-0		1	POWER JUMPER										
			C-IA-7010300-0-0		1	VARISTOR ASSY										
			A-DC-7409873-0-0		1	DECAL (PLUG NUMBERS)					11	D-IA-7009949-0-0	1	1	COVER, POWER SUPPLY	
			D-IA-7009812-0-0	A	1	CHASSIS COMPONENT MTG.										
			D-IA-7411766-0-0		1	PLATE SWITCH										
			D-IA-7411766-0-0	B	1	PLATE COMPONENT MTG.										
CUSTOMER PRINT SET CODES		1	= PRINT OF DOCUMENT INCLUDED IN PRINT SET					TITLE	DRAWING DIRECTORY		SIZE	CODE	NUMBER	P V		
		2	= INCLUDES ALL PRINTS INDICATED ON DOCUMENT						POWER SUPPLY H765				H765- β	E		
		3	= CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED						SHEET 4 OF 5		B	DD				

CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET									
	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE		MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE	
1		12	D-CS-5410864-0-1		3	POWER DIST. BD. ASSY										
			C-MD-7412192-0-0		1	SHIELD										
			D-MD-7411704-0-0		1	BRACKET, CONN. MTG.										
			C-IA-9305937-0-0			MATE-N-LOK FIXTURES										
			D-IA-5010863-0-0		1	ETCHED CIRCUIT BD.										
			K-CO-5410864-0-4			X-Y COORDINATE HOLE LOC.										
			D-AH-5410864-0-5		1	ASSY DRILLING HOLE LAYOUT										
			B-MH-5410864-0-6		1	MODULE ECO HISTORY										
			5010863		REF	ETCH CIRCUIT BOARD										
	X	13	A-SP-3700174-0-0	-	2	PACKAGING INSTRUCTIONS										
			A-PS-9905664-0-0	-	2	REGULAR SLOTTED CARTON										
			A-PS-9905665-0-0	-	2	LAMINATED BUILDUP										
		14	D-AH-5411086-0-5		1	ASSY DRILLING HOLE LAYOUT										
			B-MH-5411086-0-6		1	MODULE ECO HISTORY										
		15	D-AD-7011486-0-0		1	ASSEMBLY DRAWING										
		16	D-AH-5411689-0-5		1	ASSY DRILLING HOLE LAYOUT										
			D-MH-5411689-0-6		1	MODULE ECO HISTORY										
CUSTOMER PRINT SET CODES		X = PRINT OF DOCUMENT INCLUDED IN PRINT SET					TITLE		DRAWING DIRECTORY		SHEET 5 OF 5		SIZE CODE		NUMBER	
		C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT					POWER SUPPLY H765				3 DD		H765-2		REV	
		S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED													E	

NUMBER	VARIATION
H765-2	115 V 50/60 HZ
H765-B	240V 50/60 HZ

- NOTES**
- SEE TRANSFORMER ASSEMBLY DRAWING SHEET 2 FOR ISOMETRIC ORIENTATION OF CLAMP & PLUG WIRES.
 - TIGHTEN FAN SCREWS TO 10 IN-LBS WITH A TORQUE SCREW DRIVER.
 - INSTALL A.B.S. VINYL VIEW B-B ITEM #42 AND #43. CENTER 1/4 INCH FROM BOTTOM AND SIDES ON INSIDE WALL.
 - USE 2.5mm HOLES UNDER MOUNTING SCREWS TO PREVENT TRANSFORMER OVERHEATING.
 - GREEN YELLOW WIRE FROM TRANSFORMER TO BE FASTENED UNDER REGULATOR MOUNTING SCREW.
 - IN EARLIER VERSIONS OF THE TRANSFORMER ASSEMBLY A CABLE CLAMP WAS USED IN PLACE OF THE S TIE WRAPS TO DRESS THE TRANSFORMER WIRES ALONG THE TRANSFORMER BODY.

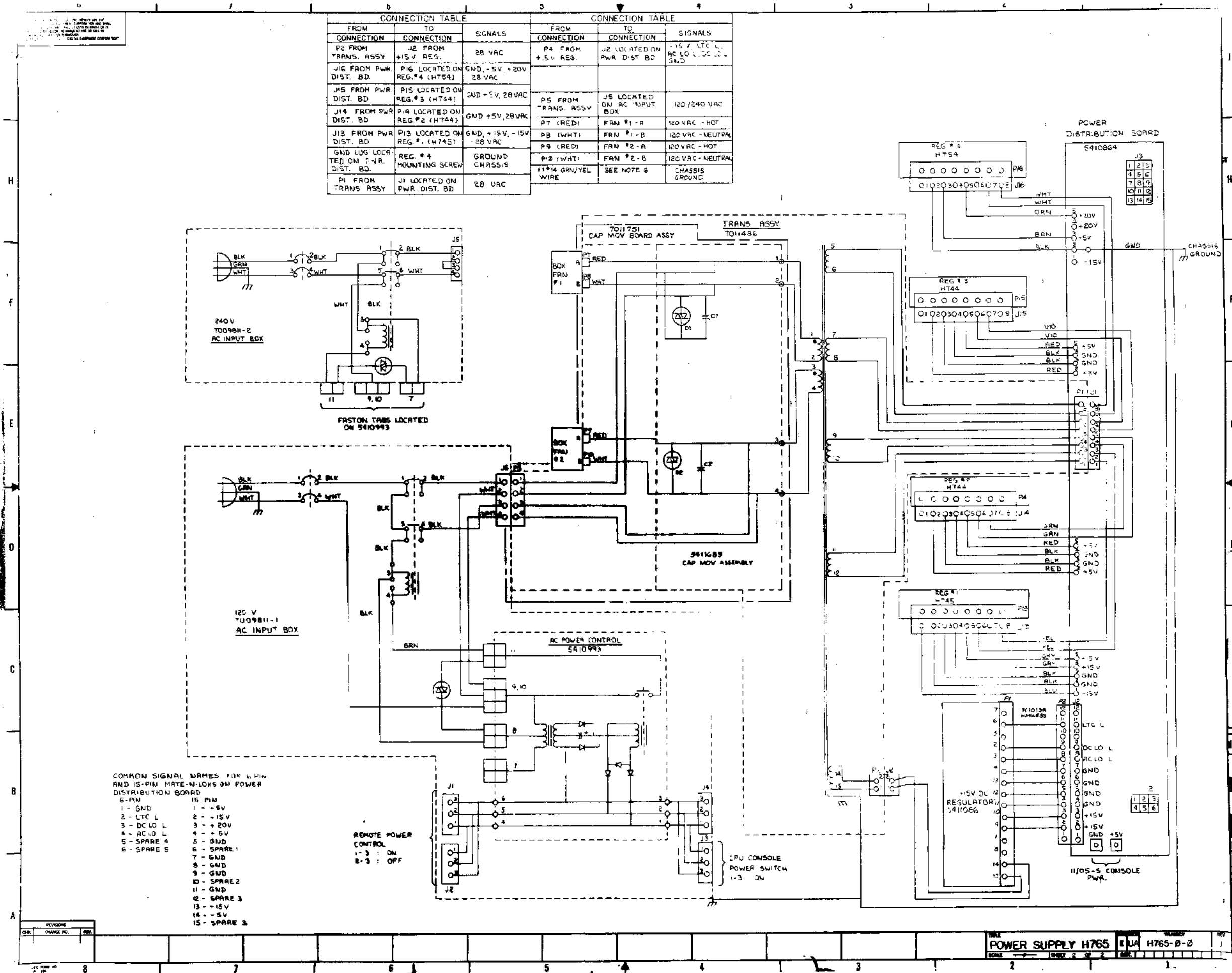


SEE NOTE 6

QTY	DESCRIPTION	PART NO.	REV.
1	COVER POWER SUPPLY	121100149-0	24
4	SCR PHND TRUSS 32X25	4006602-2	25
4	SCR PHND TRUSS 32X15	4006603-3	23
4	SCR PHND TRUSS 32X25	4006602-3	23
1	GRONMET SCID	4007016	21
1	CHAISIS POWER SUPPLY	121100149-0	24
12	WASH INT TOOL #10	4006635	17
13	WASH INT TOOL #6	4006633	16
8	SCR PHND TRUSS 10-32X15	4006607-3	15
11	SCR PHND TRUSS 6-32X25	4006620-3	14
2	FAN 115 VAC 50/60HZ	1211714	8
1	20V REGULATOR (H764)	8-00-H764-B	7
1	15V REGULATOR (H748)	8-00-H748-B	6
2	15V REGULATOR (H744)	8-00-H744-B	5
1	PWR BD 1145 (15V REG)	12114108	4
1	AC INPUT BOX ASSY 230V	121100149-0	24
1	AC INPUT BOX ASSY 115V	121100149-0	24

QTY	DESCRIPTION	PART NO.	REV.
1	COVER POWER SUPPLY	121100149-0	24
4	SCR PHND TRUSS 32X25	4006602-2	25
4	SCR PHND TRUSS 32X15	4006603-3	23
4	SCR PHND TRUSS 32X25	4006602-3	23
1	GRONMET SCID	4007016	21
1	CHAISIS POWER SUPPLY	121100149-0	24
12	WASH INT TOOL #10	4006635	17
13	WASH INT TOOL #6	4006633	16
8	SCR PHND TRUSS 10-32X15	4006607-3	15
11	SCR PHND TRUSS 6-32X25	4006620-3	14
2	FAN 115 VAC 50/60HZ	1211714	8
1	20V REGULATOR (H764)	8-00-H764-B	7
1	15V REGULATOR (H748)	8-00-H748-B	6
2	15V REGULATOR (H744)	8-00-H744-B	5
1	PWR BD 1145 (15V REG)	12114108	4
1	AC INPUT BOX ASSY 230V	121100149-0	24
1	AC INPUT BOX ASSY 115V	121100149-0	24

FIRST USED ON OPTOVISOR		REV.	DESCRIPTION	PART NO.	REV.
B-11-K					
DIMENSIONAL TOLERANCES					
UNLESS OTHERWISE SPECIFIED					
SEE PARTS LIST					
POWER SUPPLY		H765			
B-00-H765-0		H765-B-0			



CONNECTION TABLE			CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS	FROM CONNECTION	TO CONNECTION	SIGNALS
P2 FROM TRANS. ASSY	J2 FROM +15V RES.	28 VAC	P4 FROM +5V RES.	J2 LOCATED ON PWR. DIST. BD	-15V, LTC L, AC LO L, DC LO L, GND
J16 FROM PWR. DIST. BD	P16 LOCATED ON REG. #4 (H754)	GND, -5V, +20V, 28 VAC			
J15 FROM PWR. DIST. BD	P15 LOCATED ON REG. #3 (H744)	GND +5V, 28VAC	P5 FROM TRANS. ASSY	J6 LOCATED ON AC INPUT BOX	120/240 VAC
J14 FROM PWR. DIST. BD	P14 LOCATED ON REG. #2 (H744)	GND +5V, 28VAC	P7 (RED)	FAN #1 - A	120 VAC - HOT
J13 FROM PWR. DIST. BD	P13 LOCATED ON REG. #1 (H745)	GND, +15V, -15V, 28 VAC	P8 (WHT)	FAN #1 - B	120 VAC - NEUTRAL
GND LUG LOCATED ON PWR. DIST. BD	REG. #4 MOUNTING SCREW	GROUND CHASSIS	P9 (RED)	FAN #2 - A	120 VAC - HOT
P1 FROM TRANS. ASSY	J1 LOCATED ON PWR. DIST. BD	28 VAC	P2 (WHT)	FAN #2 - B	120 VAC - NEUTRAL
			**#14 GRN/YEL WIRE	SEE NOTE 6	CHASSIS GROUND

- COMMON SIGNAL NAMES FOR 6-PIN AND 15-PIN MATE-N-LOKS ON POWER DISTRIBUTION BOARD
- | | |
|-------------|--------------|
| 6 - GRN | 15 - PIN |
| 1 - GND | 1 - +5V |
| 2 - LTC L | 2 - -15V |
| 3 - DC LO L | 3 - +20V |
| 4 - AC LO L | 4 - +5V |
| 5 - SPARE 4 | 5 - GND |
| 6 - SPARE 5 | 6 - SPARE 1 |
| | 7 - GND |
| | 8 - GND |
| | 9 - GND |
| | 10 - SPARE 2 |
| | 11 - GND |
| | 12 - SPARE 3 |
| | 13 - -15V |
| | 14 - -5V |
| | 15 - SPARE 3 |

REMOTE POWER CONTROL
 1-3 : ON
 2-3 : OFF

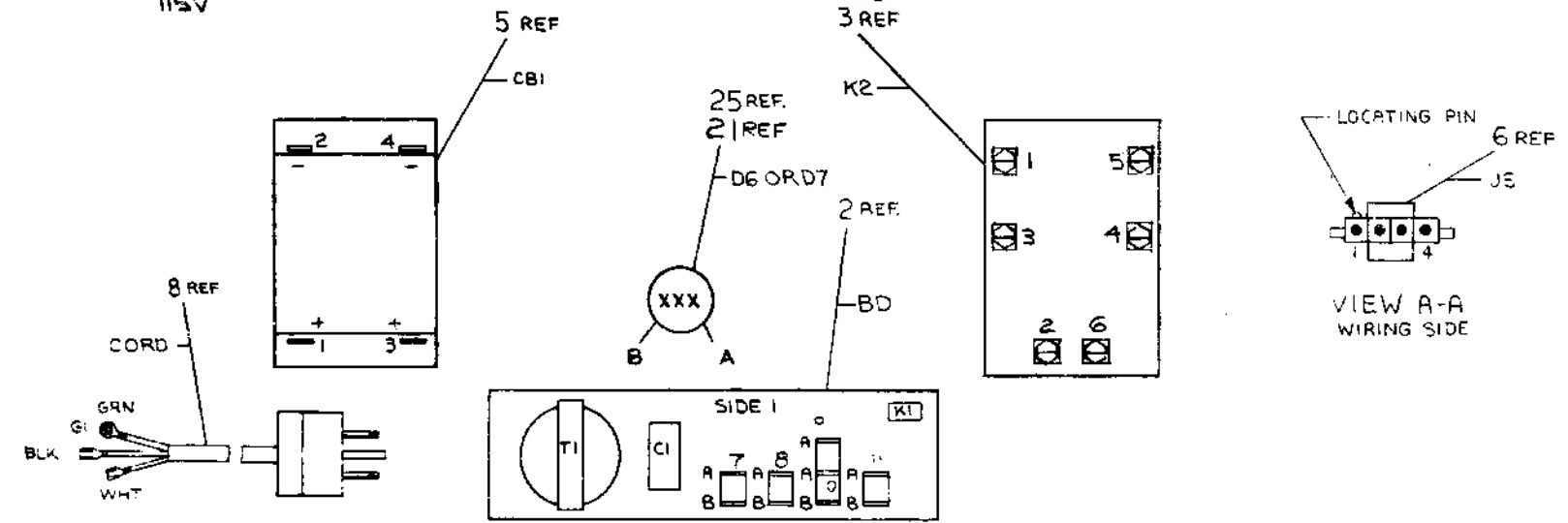
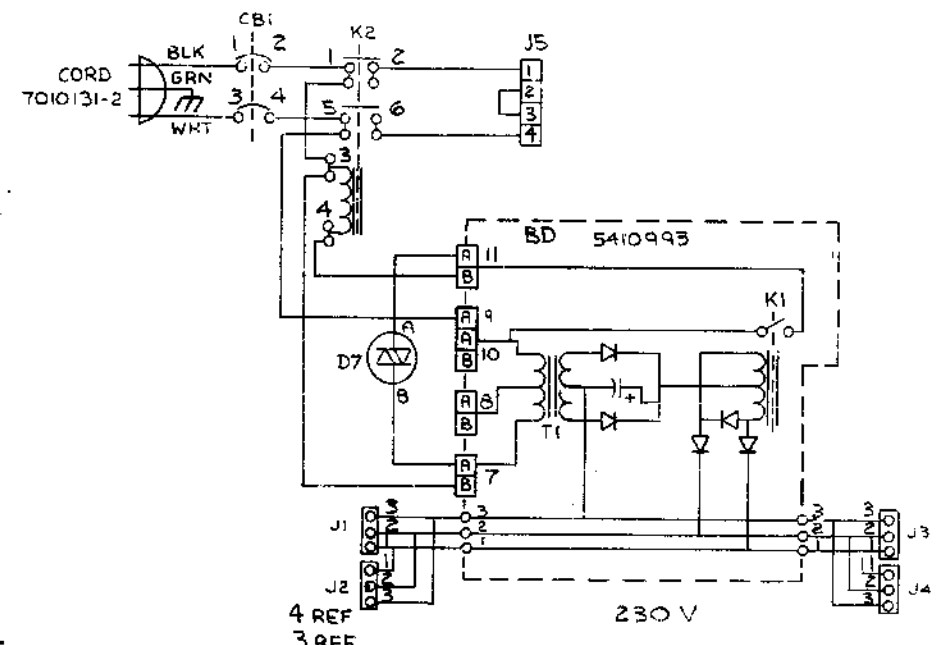
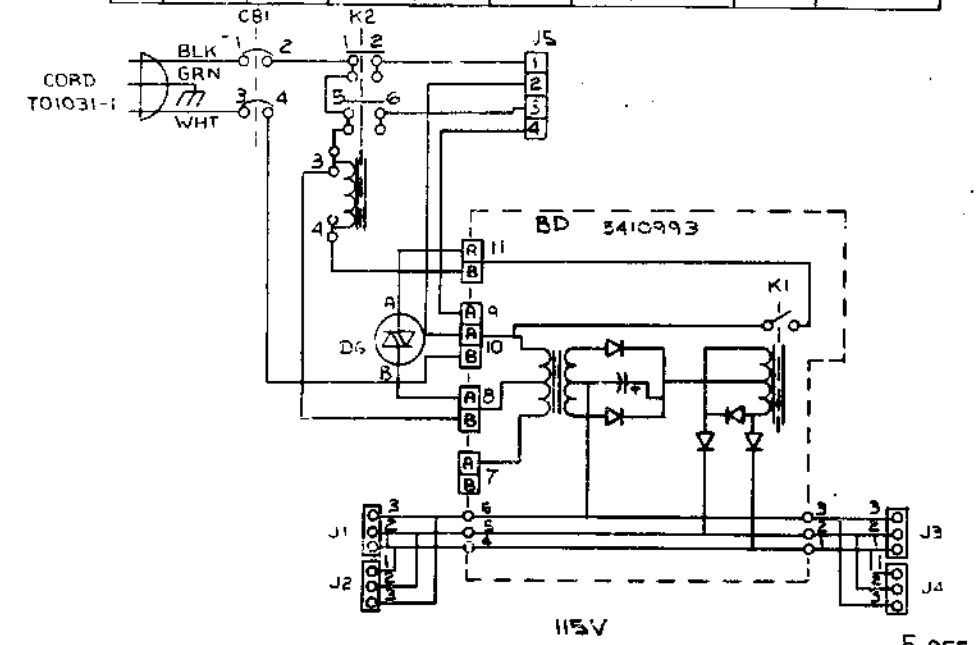
CPU CONSOLE POWER SWITCH
 1-3 ON

WIRE TABLE (115V)

ITEM NO	DESCRIPTION	CONNECTION		CONNECTION		REMARKS
		FROM	WITH	TO	WITH	
8	14 BLK	CORD	-	(CBI-1(+))	-	
8	14 WHT	CORD	-	(CBI-3(+))	-	
14	14 BLK	(CBI-2(-))	-	K2-1	-	
18	14 BLK	K2-5	-	K2-1	-	
19	14 BLK	-	-	K2-3	-	
17	14 WHT	BD-8B	-	K2-3	-	
17	14 WHT	(CBI-4(-))	-	BD-10B	-	
6	14 WHT	BD-10A	-	J5-2(REF)	-	
6	14 WHT	BD-9A	-	J5-4(REF)	-	
15	14 BRN	K2-4	-	BD-11B	-	
6	14 BLK	K2-6	-	J5-3(REF)	-	
6	14 BLK	K2-2	-	J5-1(REF)	-	
21	22 RED	D6-A	-	BD-11A	-	
21	22 RED	D6-B	-	BD-8A	-	
8	14 GRN	CORD	-	G1	-	

WIRE TABLE (230V)

ITEM NO	DESCRIPTION	CONNECTION		CONNECTION		REMARKS
		FROM	WITH	TO	WITH	
8	14 BLK	CORD	-	(CBI-1(+))	-	
8	14 WHT	CORD	-	(CBI-3(+))	-	
14	14 BLK	(CBI-2(-))	-	K2-1	-	
20	14 BLK	K2-3	-	K2-1	-	
19	14 BLK	-	-	BD-7B	-	
16	14 WHT	BD-8B	-	K2-3	-	
16	14 WHT	(CBI-4(-))	-	BD-10B	-	
16	14 WHT	BD-10A	-	BD-9A	-	
15	14 BRN	K2-4	-	BD-11B	-	
7	14 BLK	K2-2	-	J5-1(REF)	-	
7	14 BLK	J5-2(REF)	-	J5-3(REF)	-	
7	14 WHT	K2-6	-	J5-4(REF)	-	
25	22 RED	D7-A	-	BD-11A	-	
25	22 RED	D7-B	-	BD-7A	-	
8	14 GRN	CORD	-	G1	-	

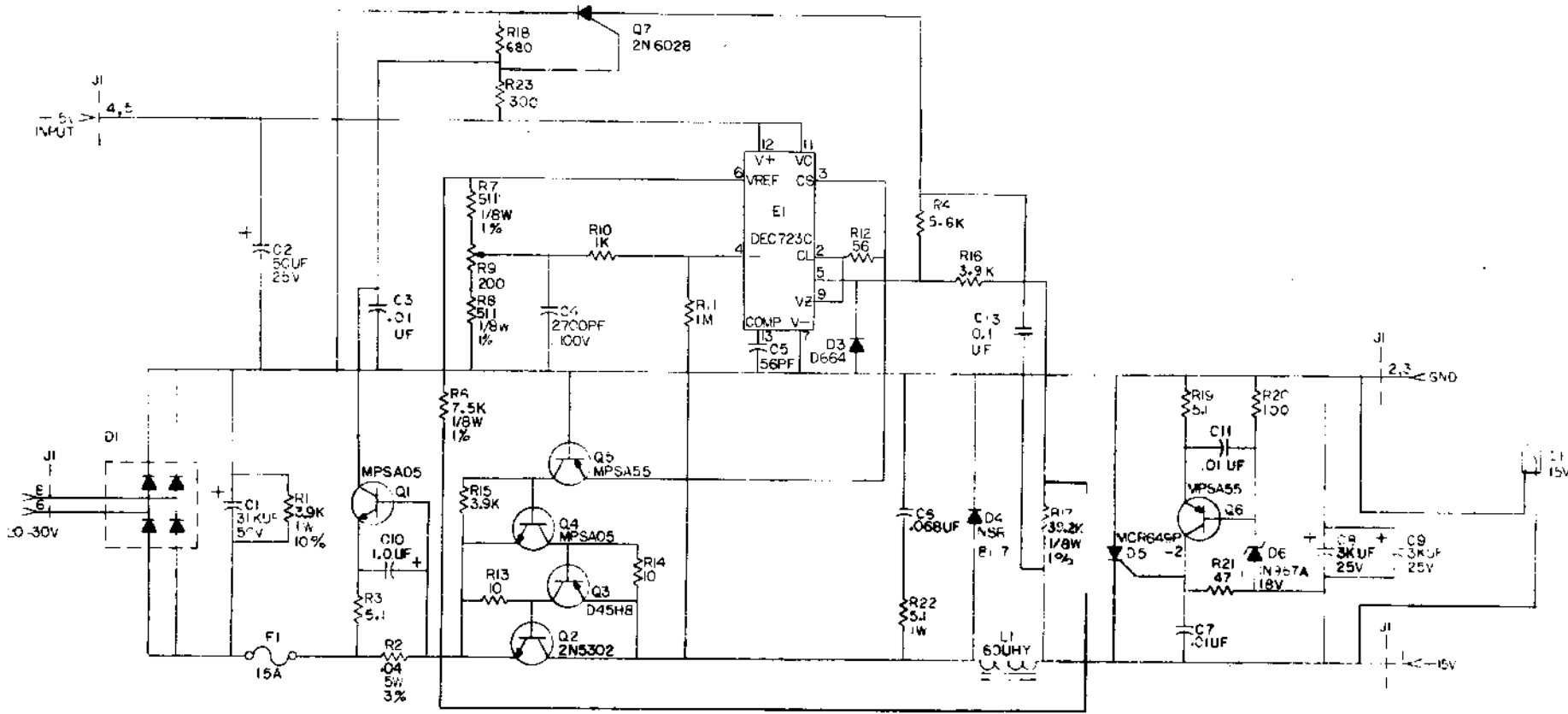


REVISIONS	
CHANGE NO	REV

CUSTOMER PRINT SET					ELECTRICAL				CUSTOMER PRINT SET					MECHANICAL							
H744-1					FIND NO	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	H744-1					FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X					1	D-CS-H744-0-1	1	1	CIRCUIT SCHEMATIC	H744	X					1	E-VA-H744-0-0	1	1	UNIT ASSY	H744
																	D-PS-121037-0-0		1	HEAT SINK	H744
				X		A-SP-H744-0-3			TEST PROCEDURE	H744							D-IA-5309756-0-0		1	REGULATOR BRKIT	H744
				X		A-SP-H744-0-8			MFG. SPEC	H744							C-IA-7412388-0			COMPONENT COVER	H744
																	C-IA-5309760-0-0		1	COMPONENT COVER	H744
																	C-M9-5309759-0-0		1	CAPACITOR STRAP	H744
																2	A-PI-3700074-0-0	-	2	PACKAGING INSTRUCTION	H744
																	A-PS-9905211-0-0	-	2	OUTER CARTON	
																	A-PS-9905212-C-0	-	2	INNER PACKAGE	
																	C-IA-7412388-0			2.5 CAP -CLDER	H744

TITLE: 40V REGULATOR SHEET 2 OF 2 SIZE CODE: B DD NUMBER: H744-0 REV: K

CUSTOMER PRINT SET					ELECTRICAL					CUSTOMER PRINT SET					MECHANICAL				
H745-1										H745-1									
FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.		
X	D-CS-H745-β-1	T	1	CIRCUIT SCHEMATIC	H745	X	D-CS-H745-β-1	T	1	PRINT LABEL	H745								
	A-SP-11/45-TA-2			TEST PROCEDURE	H745		D-PS-1210737-0-0		1	HEAT SINK	H745								
	A-SP-H745-β-8			MFG SPEC	H745		D-IA-5309756-0-0		1	REGULATOR BRKT	H745								
							D-IA-5309761-0-0		1	2 - 5 CAP BRKT	H745								
							C-MD-5309759-0-0		1	CAPACITOR STRAP	H745								
							A-PI-3700074-0-0	-	2	PACKAGING INSTRUCTIONS	H745								
							A-PS-9905211-0-0	-	2	OUTER CARTON	H745								
							A-PS-9905212-0-0	-	2	INNER PACKAGE	H745								



UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4W, 5%

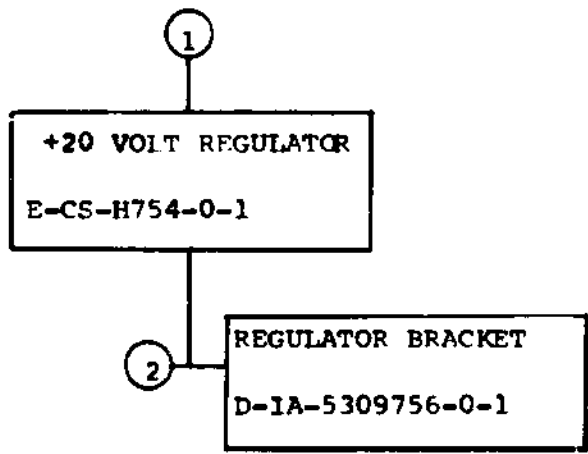
Q	2N6028	Q	2N6028
R	2N6028	R	2N6028
C	2N6028	C	2N6028
D	2N6028	D	2N6028
E	2N6028	E	2N6028
F	2N6028	F	2N6028
G	2N6028	G	2N6028
H	2N6028	H	2N6028
I	2N6028	I	2N6028
J	2N6028	J	2N6028
K	2N6028	K	2N6028
L	2N6028	L	2N6028
M	2N6028	M	2N6028
N	2N6028	N	2N6028
O	2N6028	O	2N6028
P	2N6028	P	2N6028
Q	2N6028	Q	2N6028
R	2N6028	R	2N6028
S	2N6028	S	2N6028
T	2N6028	T	2N6028
U	2N6028	U	2N6028
V	2N6028	V	2N6028
W	2N6028	W	2N6028
X	2N6028	X	2N6028
Y	2N6028	Y	2N6028
Z	2N6028	Z	2N6028

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO.
PARTS LIST				
	ETCH BOARD REV	E		
D664	IN 3606	D45H8		
NSR 8117		2N 6026		
MCR 649P - 2				
IN 967A	SAME			
2N 5302				
MPS 405				
MPS 455				
DEC NO	EIA NO	DEC NO	EIA NO	

SEMICONDUCTOR CONVERSION CHART

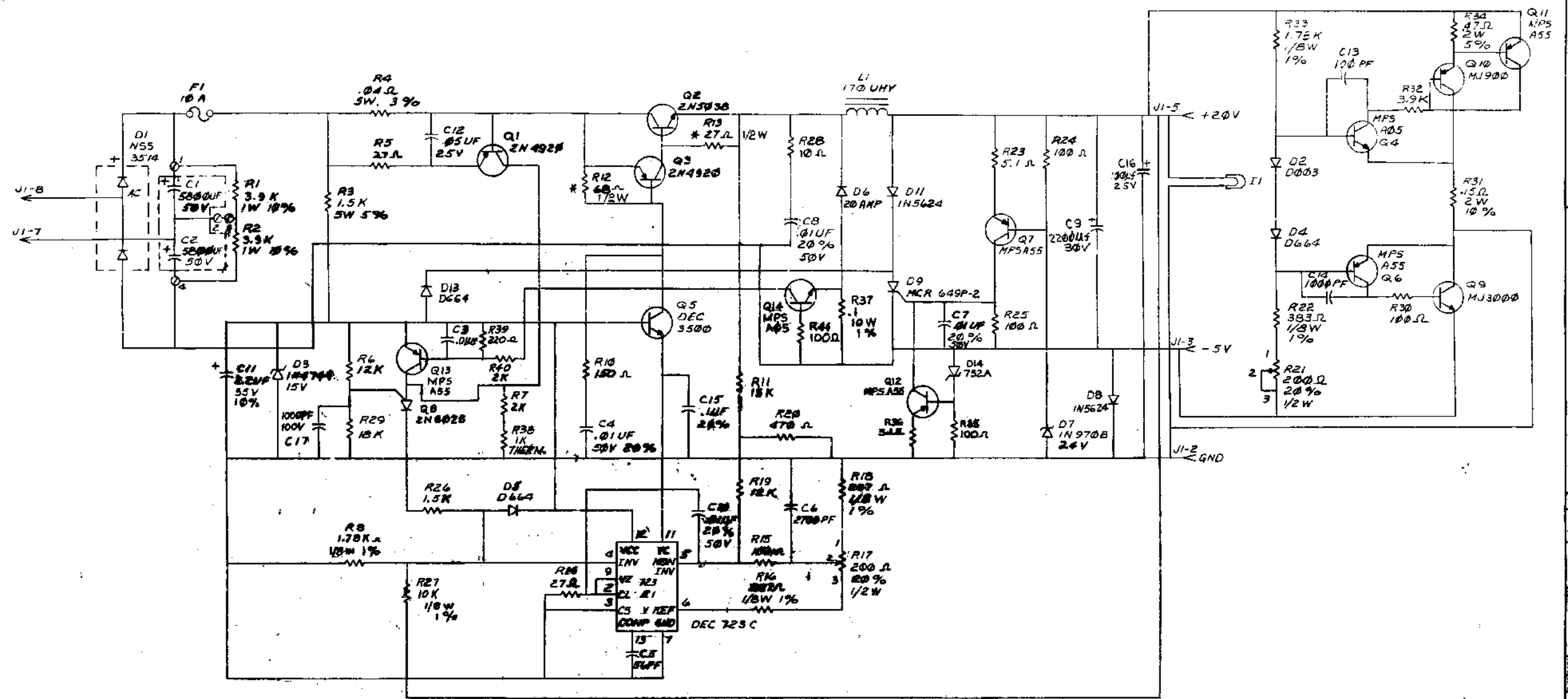
DRN: 7-10-71	DATE: 11-4-71		-15V REG.
CHK'D: J. W. LAWRENCE	DATE: 1-9-72		
ENGR: G. POTTER	DATE: 10/72		
PROJ: 4172	DATE: 11/3/72		
NEXT HIGHER ASSY		SCALE	
TITLE		SHEET	OF
PARTS LIST		DCS H745-0-1	

11-4-71
 1-9-72
 10/72
 11/3/72



TITLE	SHEET OF	SIZE CODE	NUMBER	REV
+20 VOLT REGULATOR	3 OF 3	B DD	H754-β	.

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. DIMENSIONS SHALL NOT BE USED IN WHOLE OR IN PART AS A BASIS FOR THE DESIGN OF ANY PARTS WITHOUT THE WRITTEN APPROVAL OF THE DESIGN OFFICE.



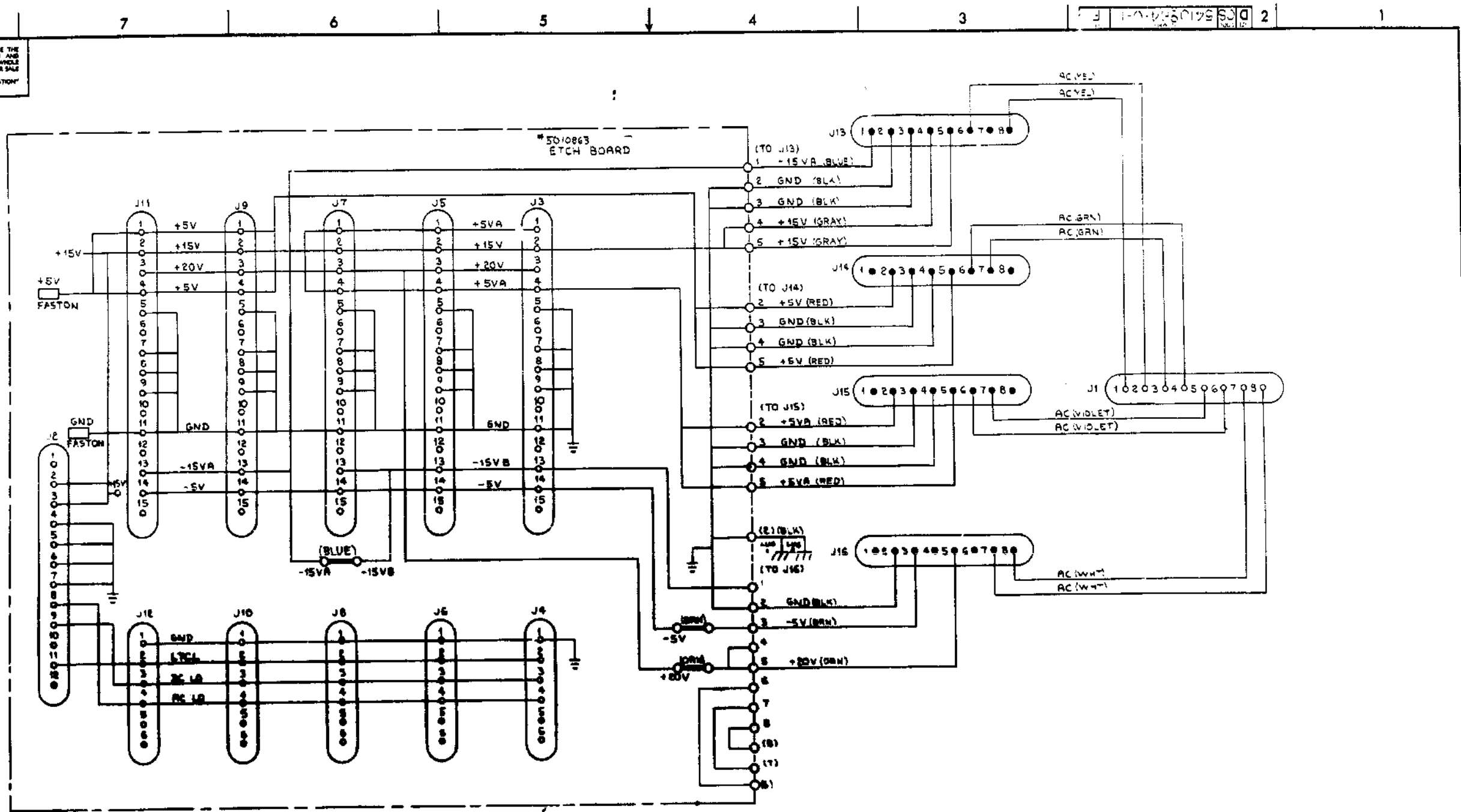
* FUSIBLE RESISTOR

BRUNING 4052Z (5840)
 REVISIONS
 CHG. NO. CHG. NO. REV.
 1 10-67 10-67

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION	PART NO.
H754				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	DATE		
.XX - .02	± .01	DATE	EQUIPMENT CORPORATION	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	TITLE	
MATERIAL		DATE	+20 VOLT REGULATOR	
FINISH		DATE	DICS (100000-1) 1L	

CSHT64-0-1

ALL DRAWINGS AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ANY EQUIPMENT WITHOUT WRITTEN PERMISSION. DIGITAL EQUIPMENT CORPORATION



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	NUMBER	REV.
PWR DIST BOARD	DCS 5410364-0-1	F
SCALE NONE	SHEET 2 OF 3	DIST.

DCS 5410864-0-1 F

WIRE TABLE									
NO	DESCRIPTION			FROM		TO		LENGTH	SIGN. / WGT
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH			
24	14	RED	J1-2	8	J13-9	7	12.5"	AC/H745	
24		VT	J1-2		J13-6		12.5"	AC/H745	
25		GRN	J1-3		J14-7		11"	AC/H744-1	
25		GRN	J1-4		J14-6		11"	AC/H744-1	
26		VIO	J1-5		J15-7		0"	AC/H744-2	
26		VIO	J1-6		J15-6		10"	AC/H744-2	
27		WH	J1-7		J16-8		11.25"	AC/H754	
27		WH	J1-8	8	J16-7		11.25"	AC/H754	
28		BLU	PDB J13-1	SOLDER	J13-1		5"	-15V	
28		BLU	PDB J13-2		J13-2			GND	
28		BLK	PDB J13-3		J13-3			GND	
29		GRY	PDB J13-4		J13-4			+15V	
29		GRY	PDB J13-5		J13-5			+15V	
20		RED	PDB J14-2		J14-2			+5V	
22		BLK	PDB J14-3		J14-3			GND	
22		BLK	PDB J14-4		J14-4			GND	
22		RED	PDB J14-5		J14-5			+5V	
21		RED	PDB J15-2		J15-2			+5V	
21		BLK	PDB J15-3		J15-3			GND	
21		BLK	PDB J15-4		J15-4			GND	
21		RED	PDB J15-5		J15-5			+5V	
21		BLK	PDB J16-2		J16-2			GND	
19		BRN	PDB J16-3		J16-3			-5V	
18		CPN	PDB J16-5		J16-5	7	5"	+20V	
23		BLU	PDB-15A		PDB-15B	SOLDER	1.75"	-15V	
18		DRN	PDB J16-5		PDB +20V		5"	+20V	
19		BRN	PDB J16-3		PDB -5V		2"	-5V	
22	14	BLK	LUG 1	SOLDER	PDB J16-2	SOLDER	6"	GND	
22	14	BLK	LUG 1	SOLDER	LUG 2	SOLDER	9.5"	GND	

REVISIONS	
CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
PWR DIST BOARD		D	CS 5410864-0-1	F
SCALE	SHEET	OF	DIST	
NONE	3	3		

DCS 5410864-0-1 F

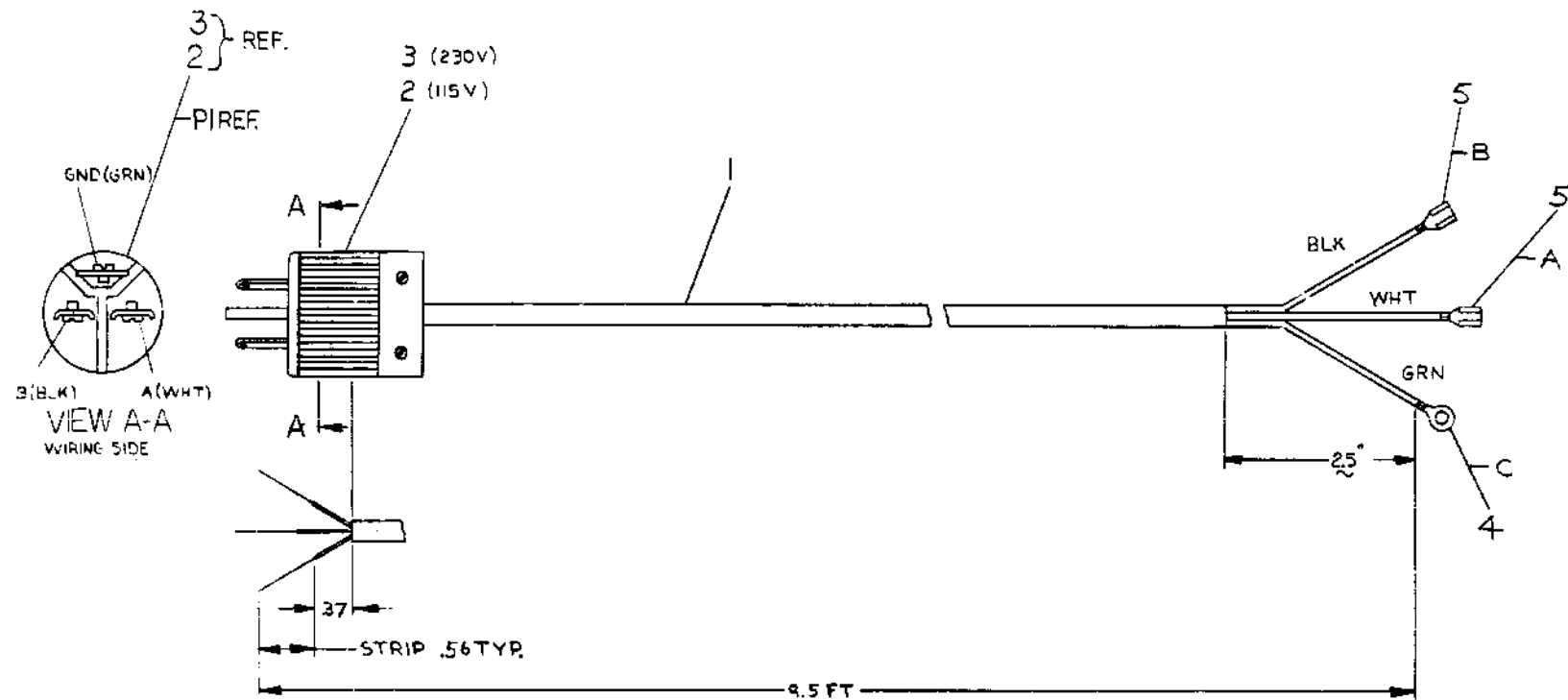
B

A

THIS DRAWING AND SPECIFICATIONS HEREBY ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1974 DIGITAL EQUIPMENT CORPORATION

WIRE TABLE							
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS			
NO.	AWG	COLOR	CONN	WITH	CONN	WITH	REMARKS
1	14	BLK	PI-B	—	B	5	
1	14	WHT	PI-A	—	A	5	
1	14	GRN	PI-GND	—	C	4	

LEGEND	
NUMBER	VARIATION
7010131-1	115 V
7010131-2	230 V

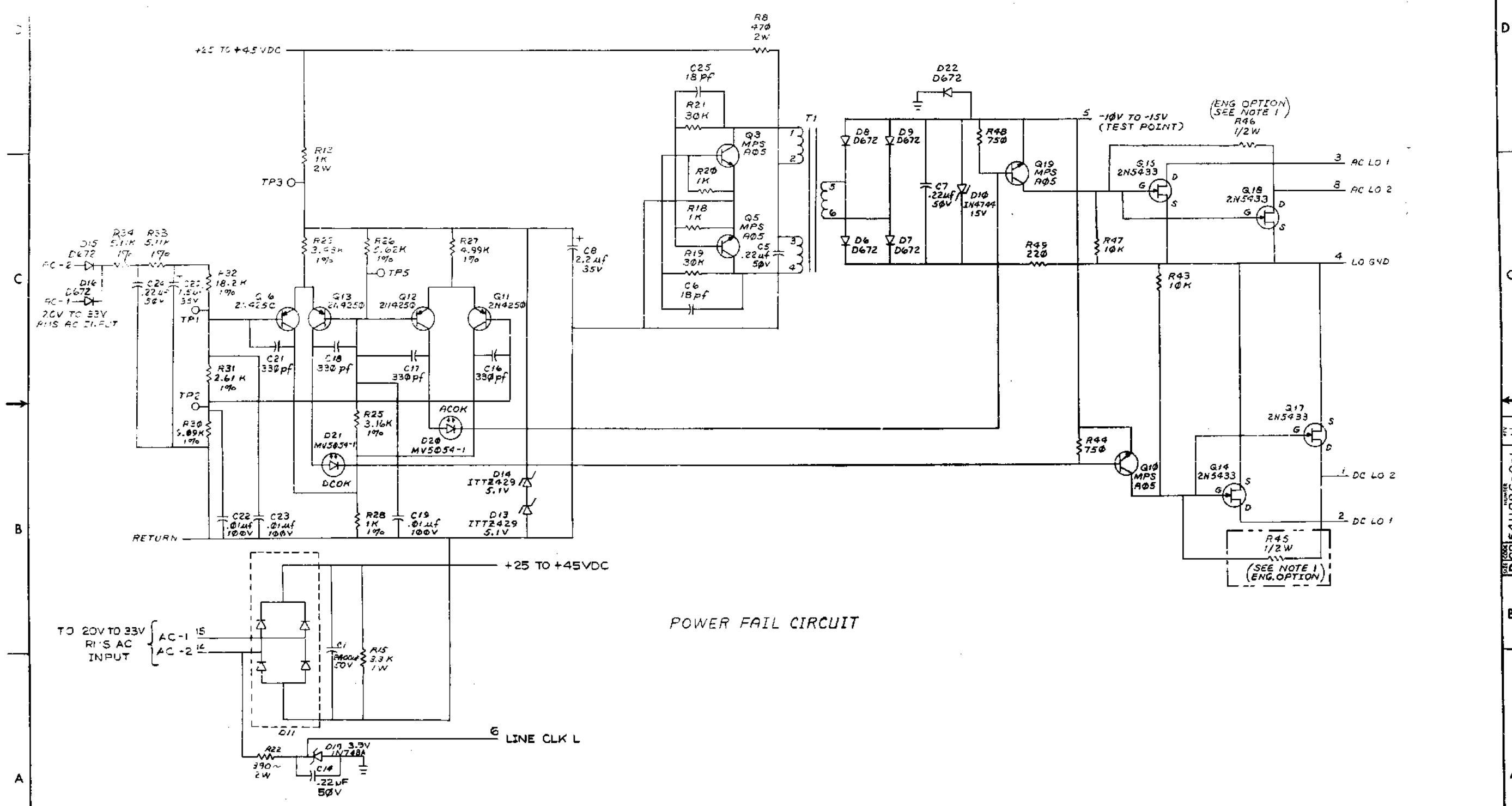


QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	CONN BOLD BLU	9007A-9-0	5
	CONN BOLD BLU	9007P2R	4
1	PLUG MALE 230V	9004933	3
1	PLUG MALE 5V	9004938	2
9.5'	CABLE	1700027	1

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.																		
BA11-1																							
DIMENSIONAL TOLERANCE			PARTS LIST																				
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED																							
<table border="1"> <tr> <th>FINISH</th> <th>FINISH</th> <th>FINISH</th> </tr> <tr> <td>303</td> <td>304</td> <td>305</td> </tr> <tr> <td>306</td> <td>307</td> <td>308</td> </tr> </table>	FINISH	FINISH	FINISH	303	304	305	306	307	308	<table border="1"> <tr> <th>DATE</th> <th>DATE</th> <th>DATE</th> </tr> <tr> <td>1/1/74</td> <td>1/1/74</td> <td>1/1/74</td> </tr> <tr> <td>1/1/74</td> <td>1/1/74</td> <td>1/1/74</td> </tr> </table>	DATE	DATE	DATE	1/1/74	1/1/74	1/1/74	1/1/74	1/1/74	1/1/74	TITLE POWER CORD 115 & 230 V			
FINISH	FINISH	FINISH																					
303	304	305																					
306	307	308																					
DATE	DATE	DATE																					
1/1/74	1/1/74	1/1/74																					
1/1/74	1/1/74	1/1/74																					
MATERIAL SEE PARTS LIST		D-AD-7009911-0-0		SIZE CODE	NUMBER																		
FINISH		SCALE 1/1		DIA	7010131-0-0																		
SHEET		OF		REV. A																			

REV.	CHANGE NO.	DATE	BY
1	00001	8-17-74	B. WOLF

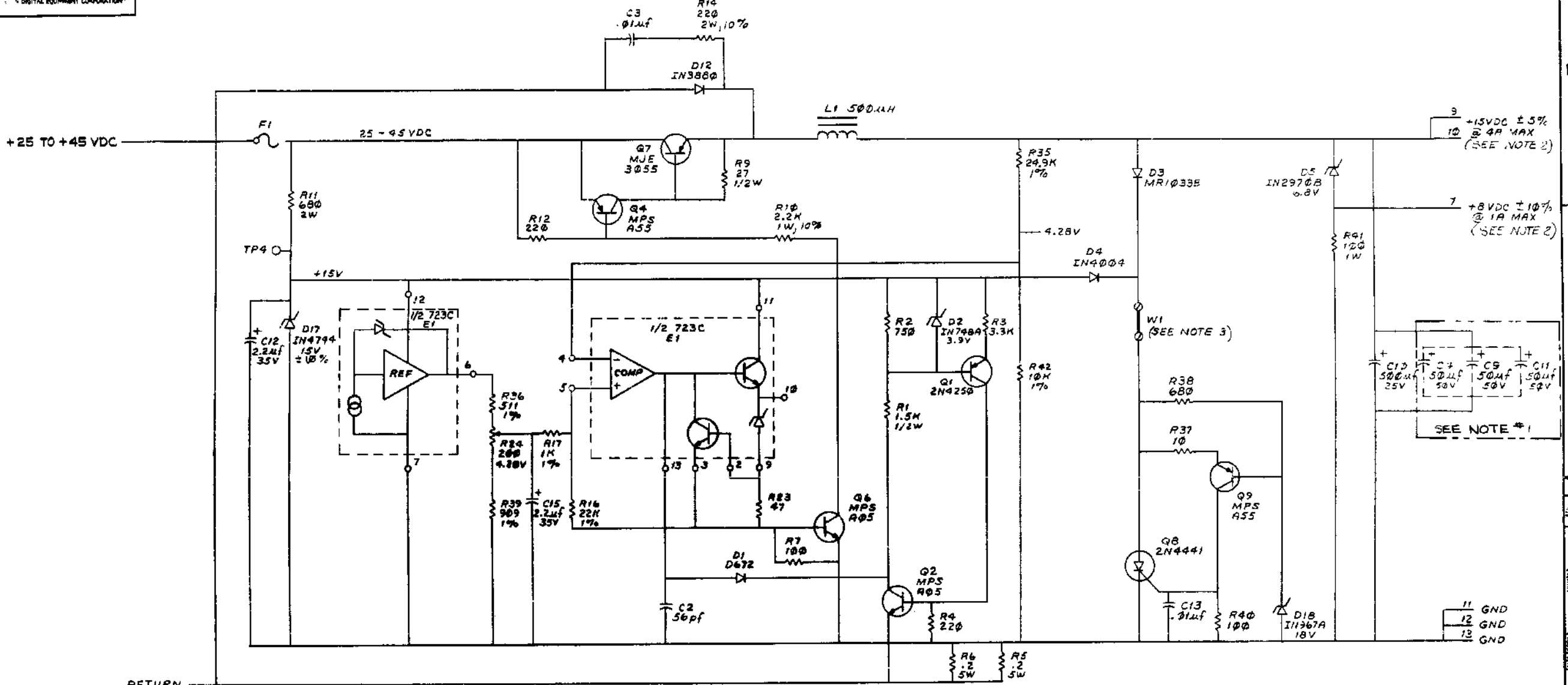
ALL RIGHTS RESERVED BY THE
 GENERAL ELECTRIC COMPANY AND
 ITS DIVISIONS. NO PART OF THIS DOCUMENT
 IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM
 OR BY ANY MEANS, ELECTRONIC OR MECHANICAL,
 INCLUDING PHOTOCOPYING, RECORDING, OR BY
 INFORMATION STORAGE AND RETRIEVAL SYSTEMS,
 WITHOUT PERMISSION IN WRITING FROM
 GENERAL ELECTRIC CORPORATION.



REVISIONS		
CHK	CHANGE NO.	REV.

DCS 541086-0-1 H

THIS DRAWING AND SPECIFICATION HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1964 DIGITAL EQUIPMENT CORPORATION



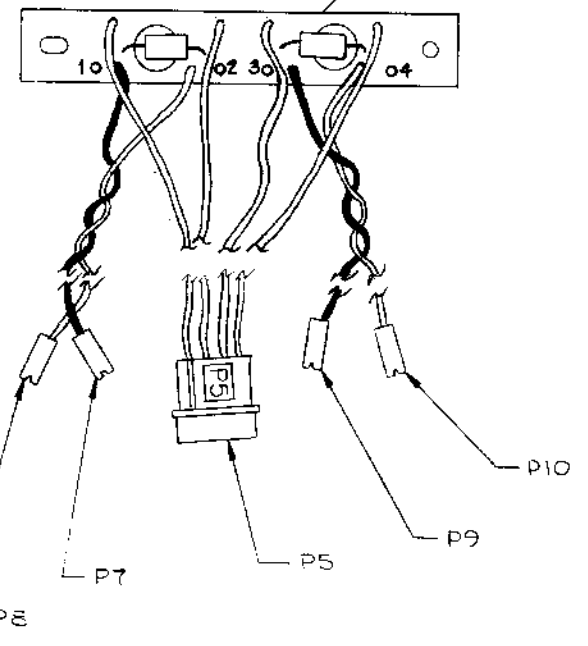
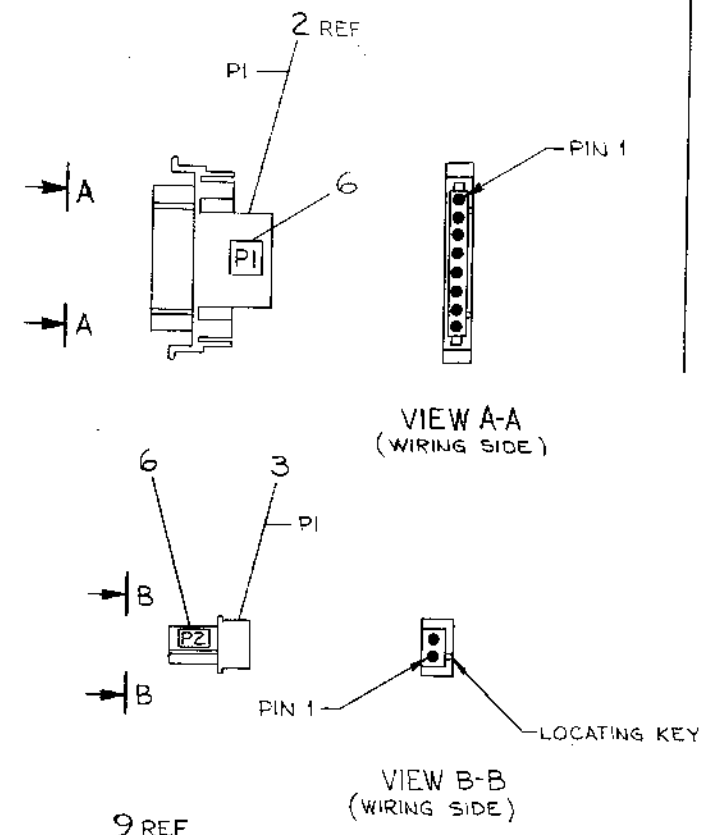
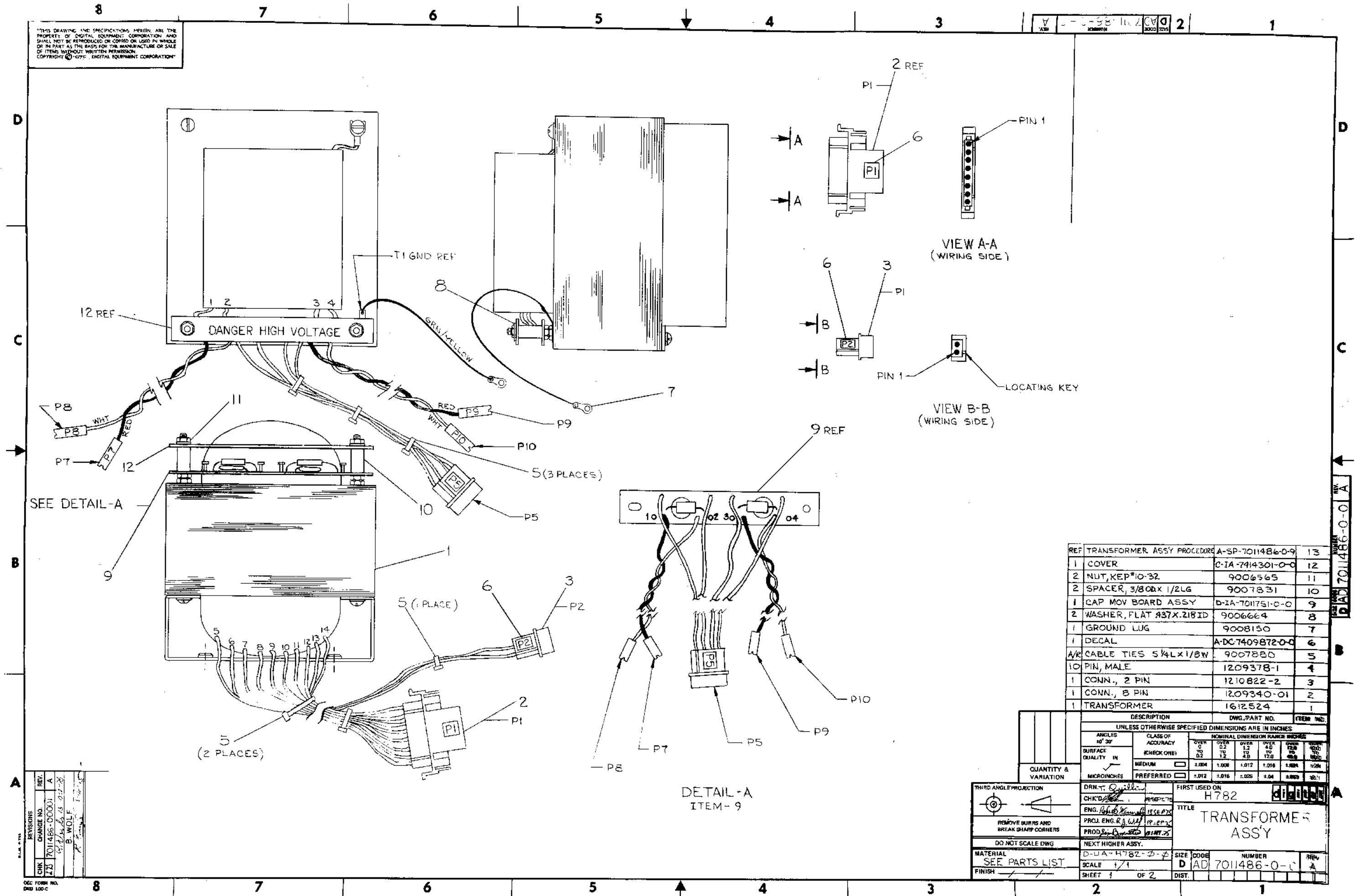
15V REGULATOR
(SEE NOTE #4)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PWR. LINE MONITOR/15V REG.	NUMBER	DCS 541086-0-1	REV.	4
SCALE		SHEET		OF	

DCS 541086-0-1

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975, DIGITAL EQUIPMENT CORPORATION



REF	DESCRIPTION	DWG. PART NO.	QTY
1	COVER	C-1A-7414301-0-0	12
2	NUT, KEP#10-32	9006565	11
2	SPACER, 3/8ODx 1/2LG	9007831	10
1	CAP MOV BOARD ASSY	D-1A-7011751-0-0	9
2	WASHER, FLAT #37X.218ID	9006664	8
1	GROUND LUG	9008150	7
1	DECAL	A-DC-7409872-0-0	6
A/R	CABLE TIES 5/4Lx1/8W	9007880	5
10	PIN, MALE	1209378-1	4
1	CONN., 2 PIN	1210822-2	3
1	CONN., 3 PIN	1209340-01	2
1	TRANSFORMER	1612524	1

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
1	1	TRANSFORMER ASSY	A-SP-7011486-0-9	13			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE TOLERANCE					
30° 30'	(CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0
SURFACE QUALITY	MEDIUM	±.004	±.008	±.012	±.016	±.024	±.030
IN	PREFERRED	±.012	±.016	±.025	±.04	±.060	±.075
MICROINCHES							

THIRD ANGLE PROJECTION	DRN. BY: [Signature]	FIRST USED ON: H782
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D BY: [Signature]	TITLE: TRANSFORMER ASSY
DO NOT SCALE DWG	PROJ. ENG. R. J. WOLF	SIZE: D
MATERIAL: SEE PARTS LIST	PROD. BY: [Signature]	SCALE: 1/1
FINISH: / /	NEXT HIGHER ASSY.	SHEET 1 OF 2

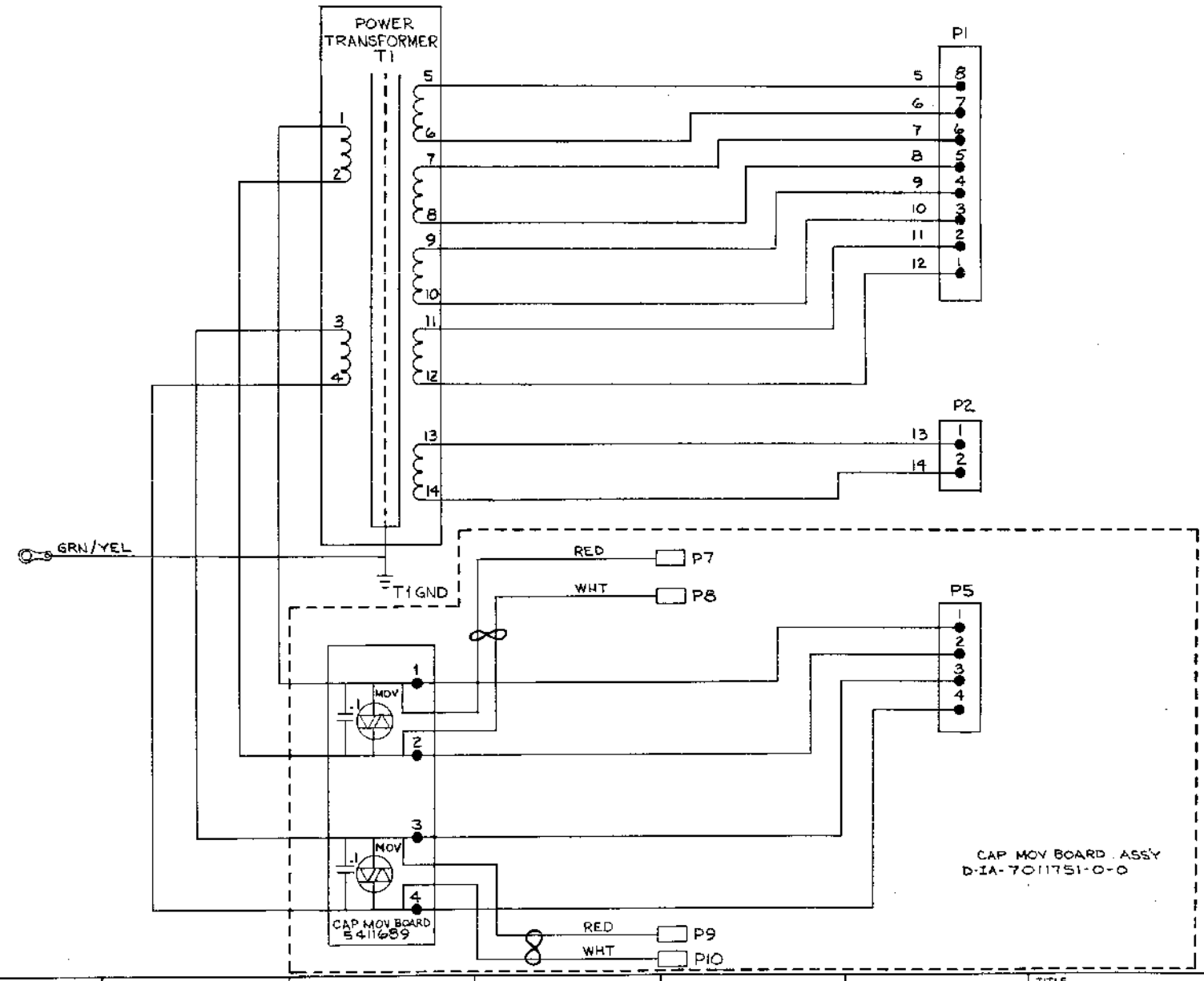
REV.	CHANGE NO.	DATE	BY	APP.
1	7011486-00001	A	B. WOLF	

DEC FORM NO. 100-C

DIGITAL EQUIPMENT CORPORATION
DAD 7011486-0-0 A

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT © 1975 DIGITAL EQUIPMENT CORPORATION.

WIRE TABLE							
ITEM NO.	AWG	COLOR	FROM CONNECTION	WITH	TO CONNECTION	WITH	WIRE LENGTH
1	14	BLK	T1-1	---	CAP MOV BD-1	SOLDER	1.5 IN
↑	↑	↑	T1-2	---	CAP MOV BD-2	SOLDER	2.0 IN
			T1-3	---	CAP MOV BD-3	SOLDER	2.0 IN
			T1-4	---	CAP MOV BD-4	SOLDER	1.5 IN
			T1-5	---	PI-8	ITEM 4	12.0 IN
			T1-6	---	PI-7	↑	
			T1-7	---	PI-6	↑	
			T1-8	---	PI-5		
			T1-9	---	PI-4		
			T1-10	---	PI-3		
			T1-11	---	PI-2	↓	
			T1-12	---	PI-1	ITEM 4	
↓	↓	↓	T1-13	---	P2-1	ITEM 4	↓
1	14	BLK	T1-14	---	P2-2	ITEM 4	12.0 IN
1	14	GRN/YEL	T1-GND	---	GND LUG (ITEM 7)	SOLDER	14.0 IN



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE TRANSFORMER ASSY		SIZE CODE DAD7011486-0-0	NUMBER D-IA-7011751-0-0	REV. A
SCALE	SHEET 2 OF 2	DIST.		

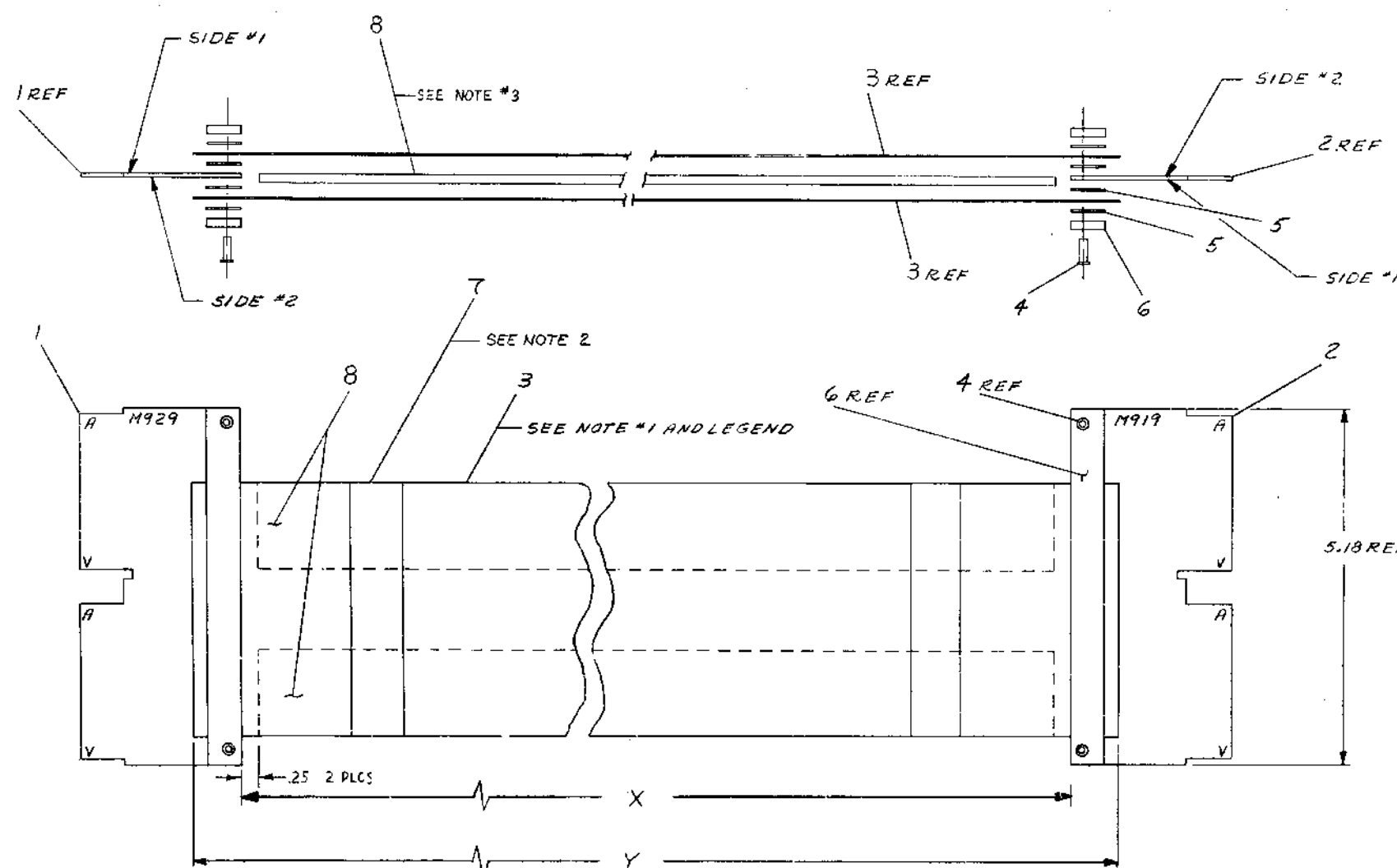
REV. A
NUMBER DAD7011486-0-0

3 7 6 5 4 3

1. All specifications, names, are the property of Digital Equipment Corporation and it is not to be copied or used in whole or in part as the manufacturing or sale of items without permission.

NOTES:

- VARIATIONS AND LENGTHS SHOWN IN LEGEND ARE STANDARD. OTHER THAN STANDARD VARIATIONS WILL BE SPECIFIED BY ALPHANUMERIC DESIGNATION. FOR LENGTHS OTHER THAN FOOT INCREMENTS FROM ONE (1) FOOT THRU NINE (9) FEET, ELEVEN (11) INCHES.
 A=1" G=7"
 B=2" H=8"
 C=3" J=9"
 D=4" K=10"
 E=5" L=11"
 F=6"
 EXAMPLE: BC11A-3D=3'4". LENGTHS WILL BE IN FOOT INCREMENTS FROM TEN (10) FEET ON, AND WILL BE SPECIFIED BY THE CORRESPONDING NUMERICAL DESIGNATION. EXAMPLE: BC11A-11=11 FEET. THE TOLERANCE ON DIMENSION 'A' WILL BE 2% OF THE FOOT INCREMENT.
- FLEXPRINTS TO BE BOUND TOGETHER BY WRAPPING WITH BLACK ELECTRICAL TAPE (ITEM 7) EVERY 18 INCHES.
- INSTALL 2 PIECES OF FOAM TAPE (ITEM 8) BETWEEN FLEX PRINT CABLES AS SHOWN.



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	GRAY FOAM	9002991	8
1	BLK ELECTRICAL TAPE	900260	7
4	CLAMP CABLE	C-5C-120976-00	6
1	TAPE #4032 1/2W X 3/4H L6	9007834	5
4	EYELET GS-4-11 STIMSON	9006750	4
2	CABLE "FLEXPRINT"	1700002-01	3
1	EXT. BUS CONN	A-PL-M919-0-0	2
1	BUS CONN	A-PL-M929-0-0	1

REV.	DESCRIPTION	DATE
1	INITIAL	
2	11-7-74	
3	11-7-74	
4	11-7-74	
5	11-7-74	
6	11-7-74	
7	11-7-74	
8	11-7-74	

FIRST USED ON OPTION/MODEL PD11

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES

TOLERANCES
 DECIMALS FRACTIONS ANGLES
 ±.008 ±.004 ±0°30'

FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DATE 11/17/69
 DATE 11/17/69
 DATE 11/17/69
 DATE 11/17/69

digital EQUIPMENT CORPORATION
 TITLE
CABLE ASSY (BC1A)

SCALE 1/1
 SHEET 2 OF 2

REV. F

REV. F
 PART NO. DJA BC1A-0-0

8 7 6 5 4 3 2 1

8

7

6

5

4

3

DUA BC11A-0-0 2

1

ALL DIMENSIONS AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF THE ORIGINAL EQUIPMENT CORPORATION AND SHALL BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF THE ORIGINAL EQUIPMENT CORPORATION.

LEGEND

NUMBER	DIM. X VARIATION	DIM. Y (PRE CUT) REF.
BC11A-02	2'0"±0.5"	2'1.5"
BC11A-03	3'0"±1.0"	3'1.5"
BC11A-04	4'0"±1.0"	4'1.5"
BC11A-05	5'0"±1.0"	5'1.5"
BC11A-06	6'0"±1.0"	6'1.5"
BC11A-07	7'0"±2.0"	7'1.5"
BC11A-08	8'0"±2.0"	8'1.5"
BC11A-09	9'0"±2.0"	9'1.5"
BC11A-10	10'0"±2.0"	10'1.5"
BC11A-11	11'0"±3.0"	11'1.5"
BC11A-12	12'0"±3.0"	12'1.5"
BC11A-13	13'0"±3.0"	13'1.5"
BC11A-14	14'0"±3.0"	14'1.5"
BC11A-15	15'0"±4.0"	15'1.5"
BC11A-16	16'0"±4.0"	16'1.5"
BC11A-17	17'0"±4.0"	17'1.5"
BC11A-18	18'0"±4.0"	18'1.5"
BC11A-19	19'0"±5.0"	19'1.5"
BC11A-20	20'0"±5.0"	20'1.5"
BC11A-21	21'0"±5.0"	21'1.5"
BC11A-22	22'0"±5.0"	22'1.5"
BC11A-23	23'0"±6.0"	23'1.5"
BC11A-24	24'0"±6.0"	24'1.5"
BC11A-25	25'0"±6.0"	25'1.5"
BC11A-0F	0'6"±0.5"	0'7.5"
BC11A-8F	8'6"±2.0"	8'7.5"

C

B

D

C

B

A

DUA BC11A-0-0
 DUA BC11A-0-0

REV	
REV	

TITLE	CABLE ASSY (BC11A)	SIZE CODE	DUA	NUMBER	BC11A-0-0	REV.	F
SCALE		SHEET	2	OF	2	DIST	

8

7

6

5

4

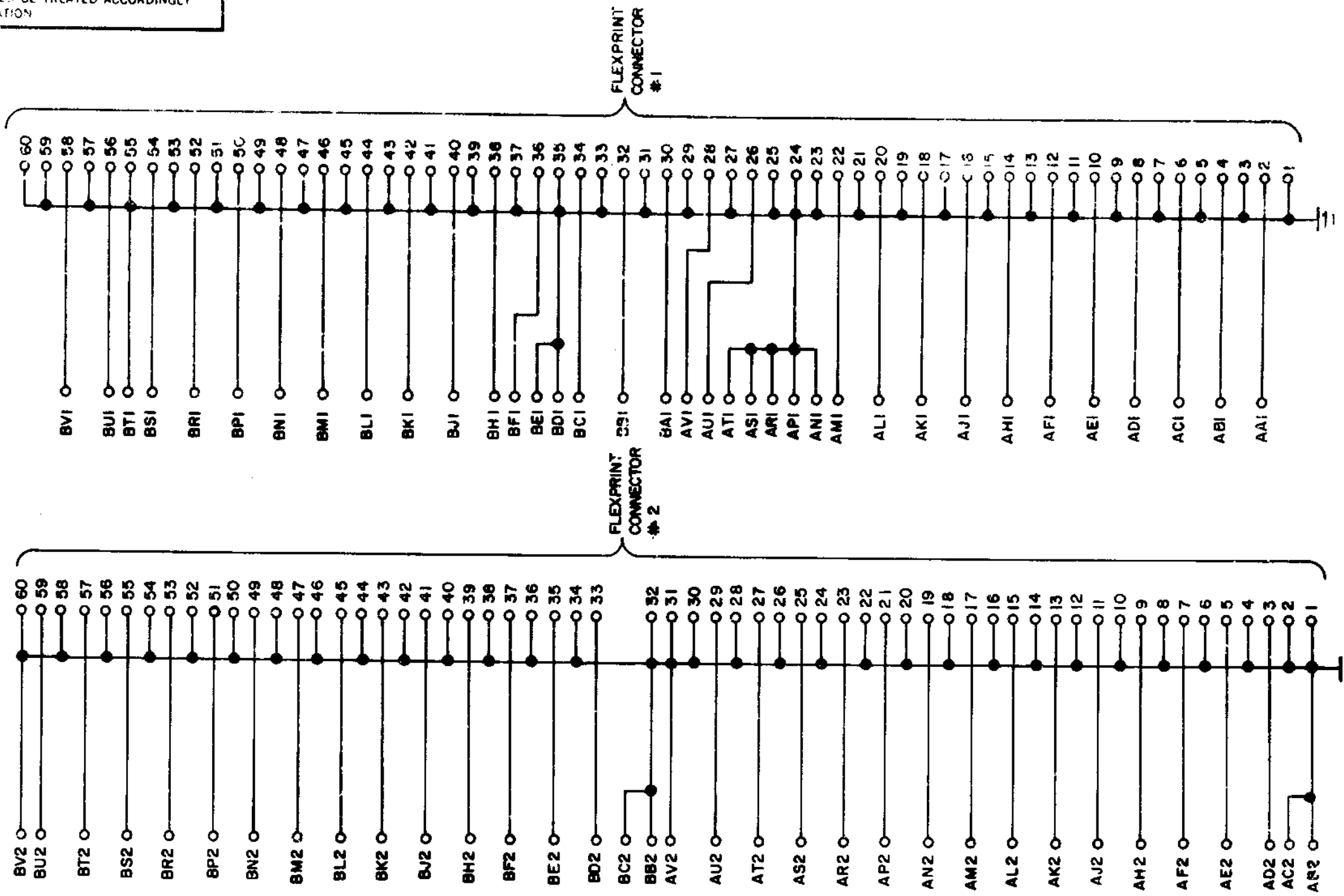
3

2

1

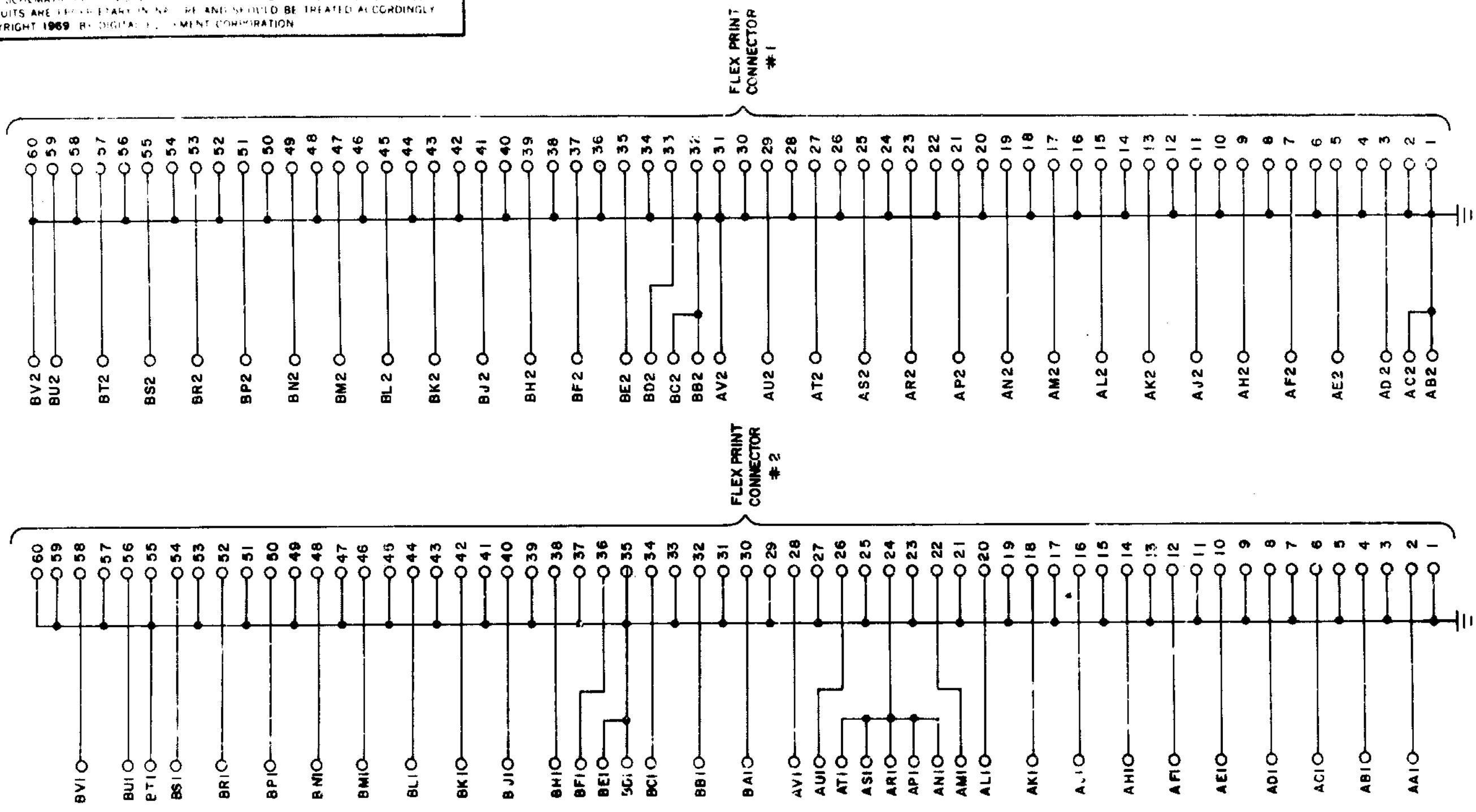
REV A
 NUMBER M919-0-1
 SIZE CODE B CS

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION.



REVISIONS CHK CHG NO. REV. 27 00001 A		DRN BUTLER DATE 10-20-69	TRANSISTOR & DIODE CONVERSION CHART				TITLE BUS CONNECTOR M919	
CHK'D <i>G. H. ...</i> DATE 1-7-69		DEC EA DEC EA	EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		SIZE B	CODE CS	NUMBER M919-0-1	REV. A
PROD DATE				PRINTED CIRCUIT REV B				

THIS SCHEMATIC IS FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE TO BE STARTED IN CARE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1969 BY DIGITAL EQUIPMENT CORPORATION



REVISIONS		DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE	
CHK	CHG	NO	REV	DEC	EIA	DEC	EIA	BUS CONNECTOR M929	
		CHK'D	DATE					SIZE	CODE
		ENG	DATE					B	CS
		PROD	DATE					NUMBER	
								M929-0-1	
								REV.	
								PRINTED CIRCUIT REV	
								B	

This drawing and associated parts are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

W130 PARTS REFERENCE

ITEM NO.	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	R1, R3, R7, R13, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55	15K, 1/4W, 5% RES.	1300496	28
2	R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56	470, 1/4W, 5% RES.	1300316	28
3	Q1-Q56	DEC 3009B TRANSISTOR	1503100	56
4	PI	H527 B LOCK CONNECTOR	1209123	1

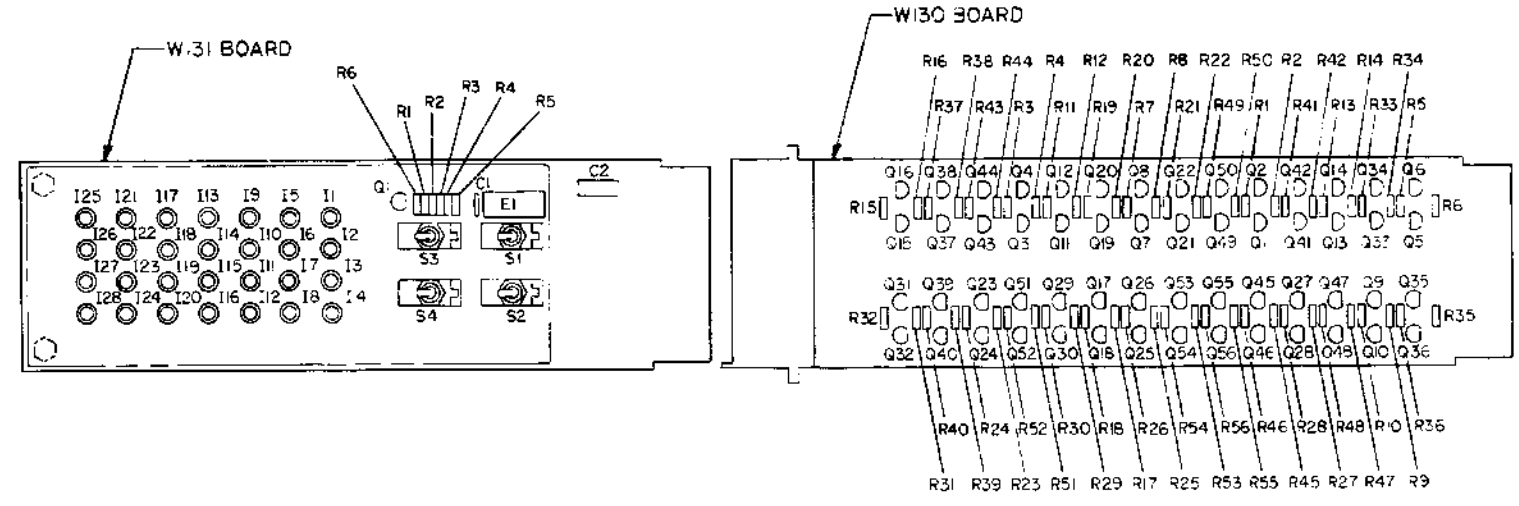
W131 PARTS REFERENCE

ITEM NO.	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1	DEC 7420N I.C.	1505575	1
2	C1	51 MFD, 50V, 20% DC CAP.	1001610	1
3	C2	68 MFD, 35V, 20% ST. CAP.	1000067	1
4	R1, R2, R3, R4, R5	3K, 1/4W, 5% RES.	1300432	5
5	R6	330, 1/4W, 5% RES.	1300295	1
6	Q1	DEC 3009B TRANSISTOR	1503100	1
7	L1-L38	LAMP HUDSON, BLUE #2309G	1209219	28
8	S1-S4	SWITCH TOGGLE, SPST, 6ATT-12	1201168	4

NOTES:

- THE KM11 IS A TWO MODULE (W130, W131) OPTION TO THE KA11 TO AID MAINTENANCE. THIS PREWIRED OPTION IS INSTALLED BY INSERTING THE W130 MODULE INTO LOCATION B02 AND INSERTING THE W131 MODULE INTO THE W130. NOTE THAT THE SWITCHES AND LIGHTS FACE TOWARD AND EXTEND BELOW THE CONSOLE. THE BOTTOM COVER MUST BE REMOVED WITH THE CHASSIS EXTERNAL TO THE CABINET.
- LABELS FOR THE INTERNAL MACHINE STATES LAMPS ARE NOTED ON THE W131 ETCH BOARD. SWITCHES PROVIDE A MANUAL CLOCK AND BUS RESPONSE AND ARE ACTIVE WHEN THE TOGGLE IS TOWARD THE NAME. NORMAL MACHINE OPERATION REQUIRES THAT ALL SWITCHES BE IN THE OFF POSITION.
- "M CLK ENABLE" AND "M CLK" PROVIDE A MANUAL CLOCK FOR THE KA11. "M CLK ENABLE" IS ACTIVATED WHILE THE PROCESSOR IS HALTED. EACH TOGGLE OF "M CLK" THEN STEPS THE PROCESSOR THROUGH THE SMALLEST PROCESSOR CLOCK INTERVALS, THE P/M STATES, THE NEXT HIGHEST CLOCK INTERVAL (S CLK) IS PROVIDED BY FOUR TOGGLES (2 COMPLETE SWITCH CYCLES) AND INDICATED BY THE R/W2 LAMP. R/W2 IS THE LAST (OR REST) R/W STATE IN A "S CLK" INTERVAL. NORMAL OPERATION IS RESUMED WHEN "M CLK" AND THEN "M CLK ENABLE" ARE RETURNED TO OFF.
- "NO TIME OUT" AND "SSYN" PROVIDE A MANUAL BUS RESPONSE TO THE PROCESSOR. IT IS USED WHEN OTHER DEVICES ARE NOT AVAILABLE. "NO TIME OUT" IS ACTIVATED, WHILE THE PROCESSOR IS HALTED, TO ELIMINATE AN ERROR TRAP ON MANUAL "SSYN". AT THE APPROPRIATE TIMES IN A BUS TRANSFER "SSYN" IS ACTIVATED AND DEACTIVATED.

COMPONENT PLACEMENT



REV	CHG	DATE	BY

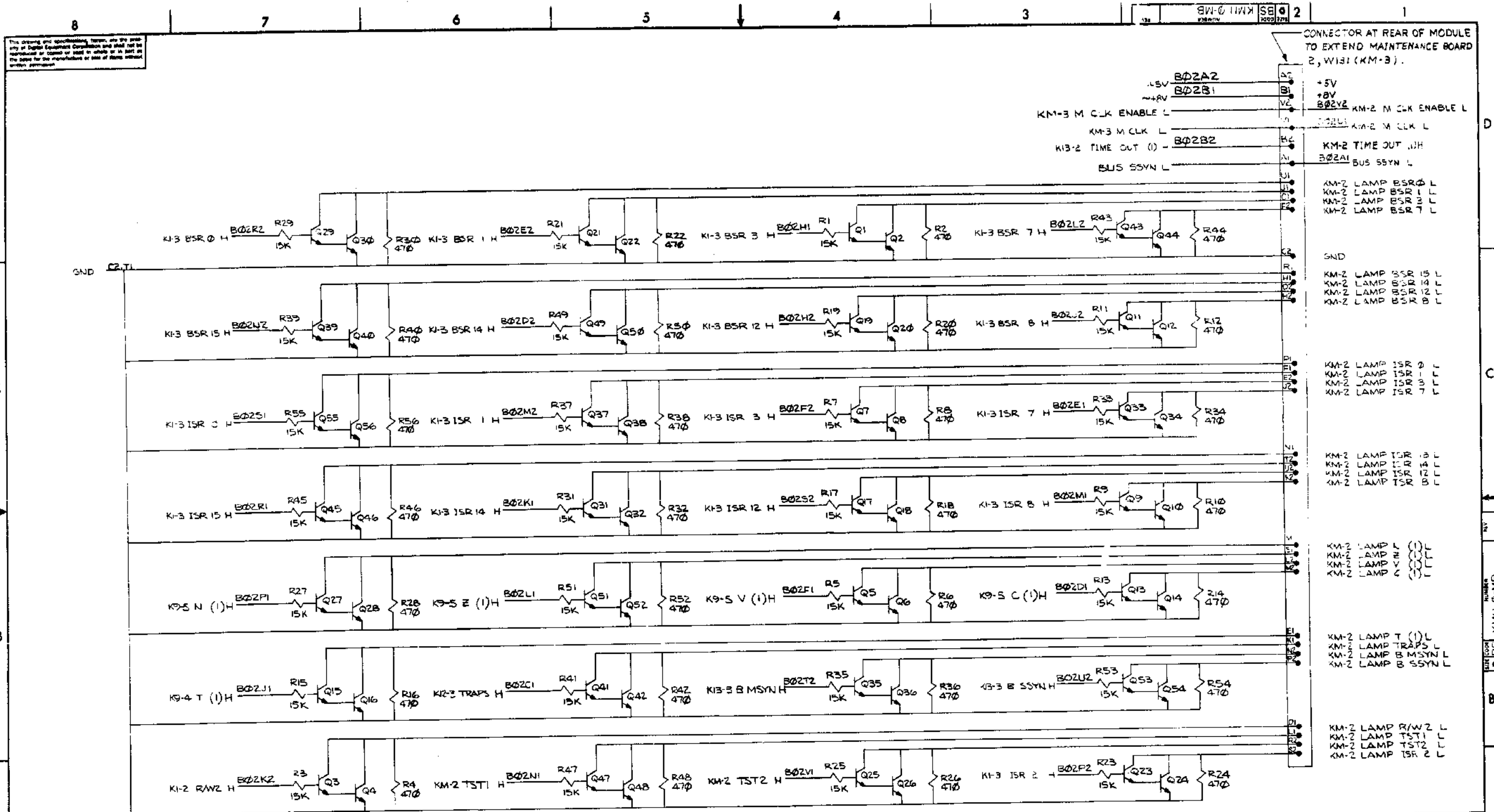
FIRST USED ON OPTION/MODEL
PDP11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± .004 ± .020
FINISH SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRAWN: [Signature]		DATE: 12/17/70	digital EQUIPMENT CORPORATION MAYFIELD MASSACHUSETTS
CHECKED: [Signature]		DATE: 12/17/70	
ENGR: [Signature]		DATE: 12/17/70	TITLE MAINTENANCE BOARD (182) KM-1
MATERIAL: [Signature]		DATE: 12/17/70	
NEXT HIGHER ASSY A-ML-KM11-0		SCALE: 1/1	REV: [Signature]
SHEET 1 OF 3		PART NO. DBS KM11-0-MB	

REV. NO. DBS KM11-0-MB

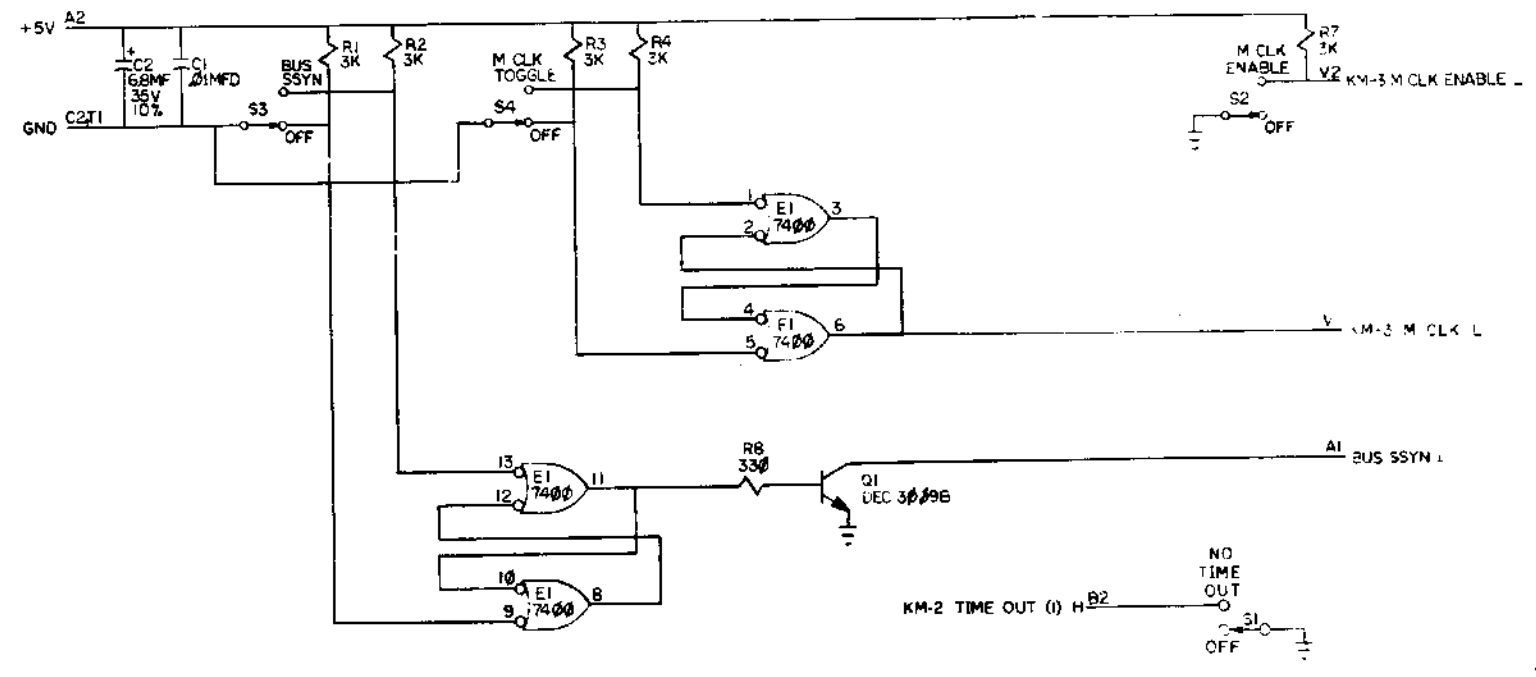
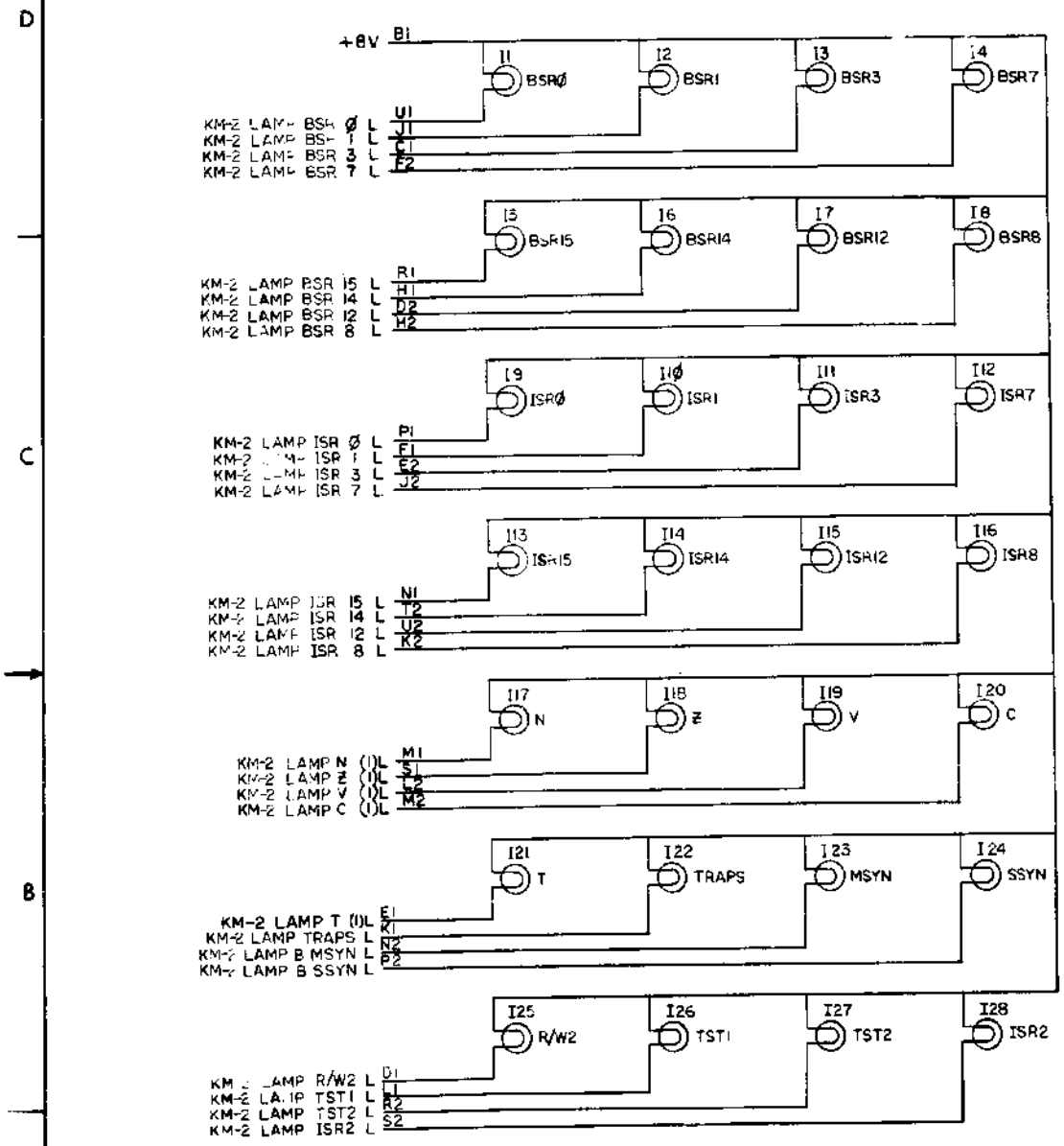
This drawing and specifications, terms, and any other data are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part in any form for the manufacture or sale of items without written permission.



REV	NO	DATE	BY

FIRST USED ON OPTION MODEL PDP 11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES DECIMALS FRACTIONS ANGLES ± 0.005 ± 0.010 ± 0.015 FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	DATE 2-18-69	DATE 4/23/73	DATE 1-6-78	DATE 3-10-78
MATERIAL	NEXT HIGHER ASSY	PARTS LIST		
FINISH	A-ML-KM11-0	EQUIPMENT CORPORATION MAINTENANCE BOARD (1) W130 KM-2		
	SCALE NONE	SIZE CODE DBS KM11-0-MB		
	SHEET 2 OF 3	DIST		

This drawing and specifications herein are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture of parts of others without written permission.

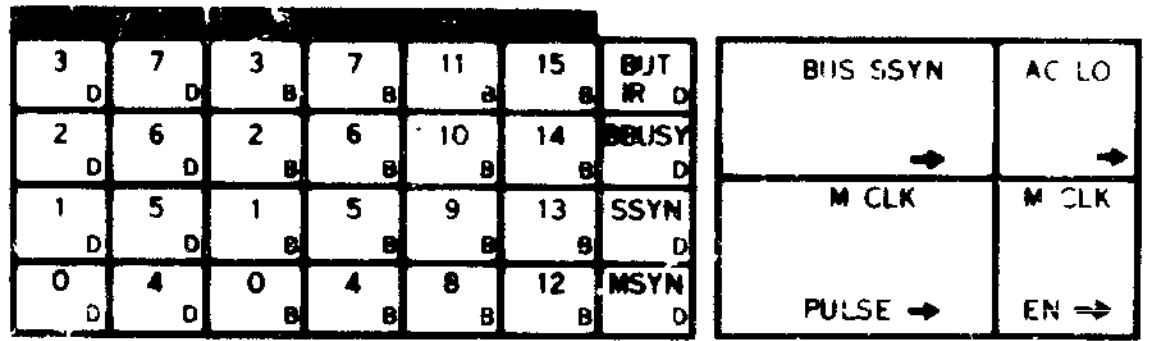


REV	
CHK	
CHG	
REV	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS IN INCHES				
TOLERANCES				
DECIMAL FRACTIONS ANGLES				
FRACTIONS ANGLES				
FINISHES				
MATERIAL				
NEXT HIGHER ASSEMBLY				
SCALE NONE				
SHEET OF 2				
TITLE			REV.	
MAINTENANCE BOARD(2)			KM-3	
WI31			NUMBER	
DES KMI1-0-MB			REV.	
DISTR.				

REV. 1
REV. 2
REV. 3
REV. 4
REV. 5
REV. 6
REV. 7
REV. 8
REV. 9
REV. 10
REV. 11
REV. 12
REV. 13
REV. 14
REV. 15
REV. 16
REV. 17
REV. 18
REV. 19
REV. 20
REV. 21
REV. 22
REV. 23
REV. 24
REV. 25
REV. 26
REV. 27
REV. 28
REV. 29
REV. 30
REV. 31
REV. 32
REV. 33
REV. 34
REV. 35
REV. 36
REV. 37
REV. 38
REV. 39
REV. 40
REV. 41
REV. 42
REV. 43
REV. 44
REV. 45
REV. 46
REV. 47
REV. 48
REV. 49
REV. 50

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced, copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.




D-JIM WHEN ASSERTED
B BRIGHT WHEN ASSERTED

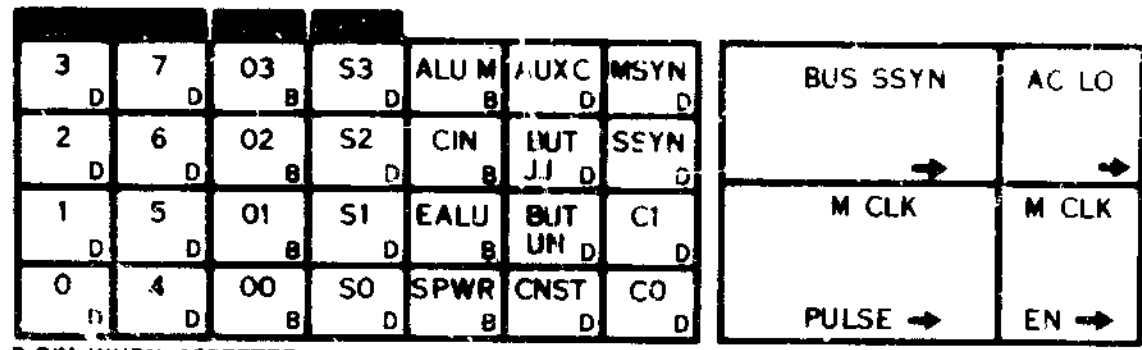
5509081-0-9

FIRST USED ON OPT. 110P	
11/05	
REVISIONS	REV.
	CHANGE NO.
CHK	

SPEC# 9200100-94 (BLACK)

DRN. A. Mattum	DATE 5-11-72	 DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHK'D. BW	DATE 5-12-72	
ENG. [Signature]	DATE 5-22-72	
PROJ. ENG. A. Terich	DATE 5-22-72	
PROD. RK Peterson	DATE 5/24/72	TITLE MAINT MODULE OVERLAY (11/05 - SMI)
NEXT HIGHER ASSY C-1A-5509081-0-0		SIZE CODE A 55
SCALE		NUMBER 5509081 0-9
SHEET	OF	REV.
DIST		

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.



D-DIM WHEN ASSERTED
B-BRIGHT WHEN ASSERTED

5509081-0-10

FIRST USED ON OPT. MOD
11/05

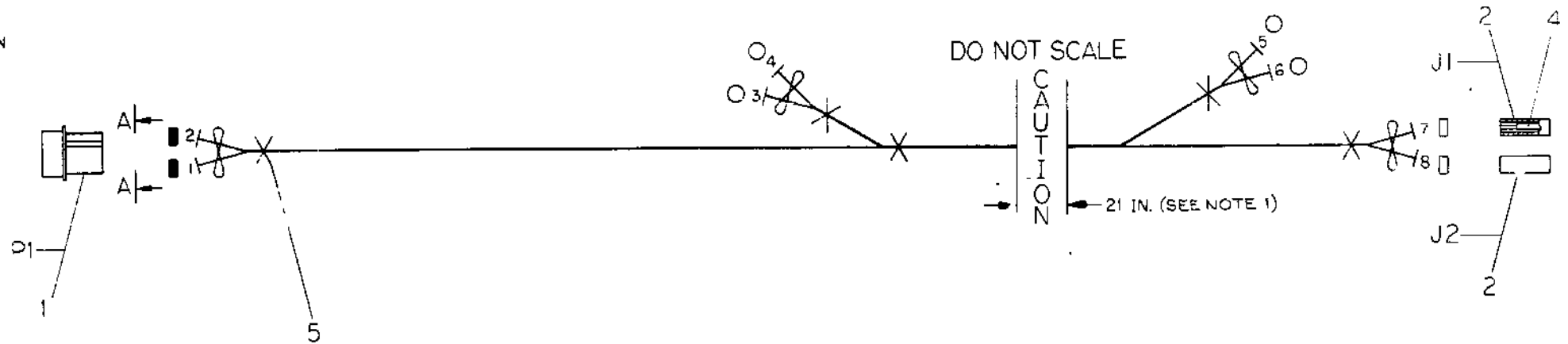
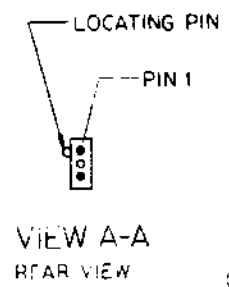
REVISIONS	REV.
CHANGE NO.	
CHK	

SPEC# 9200160-94 (BLACK)

DRN. <i>D. Mattson</i>	DATE <i>5/1/72</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
CHKD. <i>Ch...</i>	DATE	
ENG. <i>...</i>	DATE	
PROJ. ENG. <i>A. Fisher</i>	DATE <i>5-23-72</i>	
PROD. <i>R. V. Peterson</i>	DATE <i>5/24/72</i>	
C-IA-5509081-0-0		TITLE MAINT MODULE OVERLAY (11/05-KM2)
SCALE	SIZE CODE A SS	NUMBER 5509081-0-10
SHEET	OF	REV.

WIRE TABLE									
ITEM NO.	DESCRIPTION	FROM			TO			SIGNAL	
		AWG	COLOR	POINT	CONNECTION	WITH	POINT		CONNECTION
7	#18	BLU	2	P3-1	3	7	J1-1	4	KEY SW
	TWP	BLK	1	P3-3	3	8	J2-1	4	KEY SW
8	#18	RED	3	---	6	6	---	6	+5
	TWP	BLK	4	---	6	5	---	6	GND

NOTES:
1. APPLY TIE WRAP (ITEM *5) EVERY 4 IN..



28"	WIRE, #18 TWP RED/BLK	9107430-02	8
38"	WIRE, #18 TWP BLU/BLK	9107430-06	7
○	4 CONN., SOLDERLESS RED	9007917	6
×	2 TIE WRAP 1 M	9007031	5
□	2 FASTAB, SOCKET	1210820-2	4
■	2 PIN, MALE	1209378-1	3
	2 HOUSING, FASTAB EXT	1210820-1	2
	1 HOUSING, 3 PIN	1209351-03	1

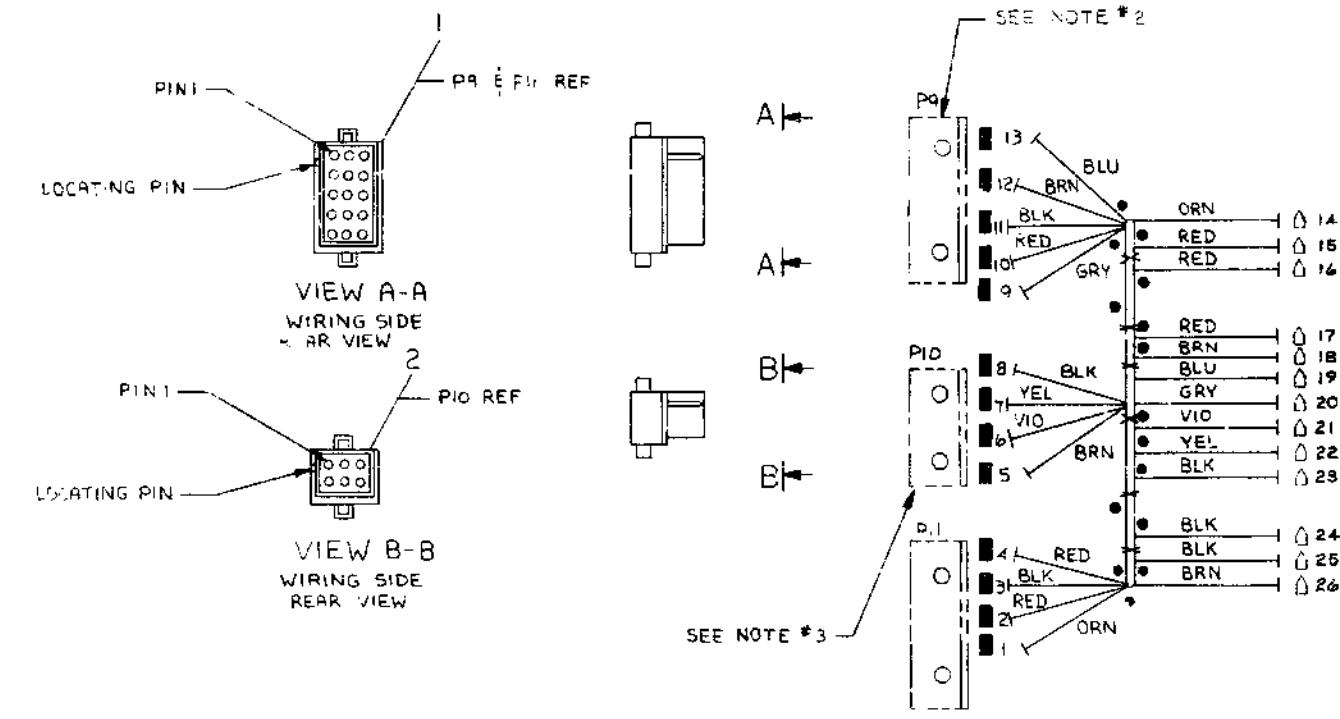
FIRST USED ON OPTION/MODEL		SYM.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05-S						
DIMENSIONAL TOLERANCE				PARTS LIST		
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED				digital		
MILLIMETERS	INCHES	ANGLES	DRN	DATE	TITLE	
XXX ±0.10	JULX ±.006	40° 30'	CHK'D	DATE	CONSOLE POWER HARNESS	
XX ±0.5	JX ±.02		ENG.	DATE		
X ±2	X ±.1		PROJ. ENG.	DATE		
			PROJ. DES.	DATE		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	MATERIAL SEE PARTS LIST			
			FINISH	SCALE 1/1	SIZE CODE D1A	NUMBER 7009908-0-0
				SHEET 1 OF 1	DIST	REV.

7 6 5 4 3 2 1

WIRING TABLE

ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL	LENGTH
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH		
7	#14	ORN	1	PI1-3	3	14	---	---	+20V	7 1/2
5	#14	RED	2	PI1-1	---	---	---	---	+5V	6
6	#14	BLK	3	PI1-8	---	---	---	---	GND	4 1/2
9	#14	RED	4	PI1-4	---	---	---	---	+5V	7 1/8
10	#18	BRN	5	PI0-2	---	---	---	---	LTC	5 1/2
12	#18	YEL	7	PI0-4	---	---	---	---	AC LO	3 3/4
11	#18	VIO	6	PI0-3	---	---	---	---	DC LO	3 3/4
8	#14	BLK	8	PI0-1	---	---	---	---	GND	4 7/8
3	#18	GRY	9	P9-2	---	---	---	---	+15V	7 1/4
5	#14	RED	10	P9-1	---	---	---	---	+5V	3 1/2
6	#14	BLK	11	P9-8	---	---	---	---	GND	7 1/4
10	#18	BRN	12	P9-14	---	---	---	---	-5V	4 3/4
9	#18	BLU	13	P9-13	3	19	---	---	-15V	5 1/8

- NOTES:
- USE TIE WRAPS (X) ITEM #4 AT BREAK-OUT POINTS SHOWN.
 - USE CONN. BRKT. *C-MD-9305761-H15-0, MOUNT WITH #6 WOOD SCREWS. USE MATING CONN. 1209350-15.
 - USE CONN. BRKT. *C-MD-9305761-H6-0, MOUNT WITH #6 WOOD SCREWS. USE MATING CONN. 1209350-06.
 - DOT (•) INDICATES NAIL LOCATIONS FOR ASSEMBLY USE ONLY. COVER NAILS WITH SHRINK TUBING TO PREVENT CUTTING HARNESS.
 - COMPONENTS TO BE LABELED WITH COMPONENT IDENTIFIERS USING DECALS ITEM #13.
 - WIRE LENGTH TOLERANCES WILL BE + 1/8 INCHES.
- 0



QTY.	DESCRIPTION	PART NO.	ITEM NO.
	AIR DECALS, CABLE	A-DC-7409872-0-0	13
	4" WIRE #18 AWG YEL	9107360-44	12
	4" WIRE #18 AWG VIO	9107360-77	11
	12" WIRE #18 AWG BRN	9107360-11	10
	6" WIRE #18 AWG BLU	9107360-66	9
	8" WIRE #13 AWG GRY	9107360-88	8
	8" WIRE #14 AWG ORN	9107370-33	7
	19" WIRE #14 AWG BLK	9107370-00	6
	19" WIRE #14 AWG RED	9107370-22	5
X	6 TIE WRAP	9001031	4
13	PIN, MALE	1209378-01	3
1	CONN. 6 PIN HOUSING	1209351-06	2
2	CONN. 15 PIN HOUSING	1209351-15	1

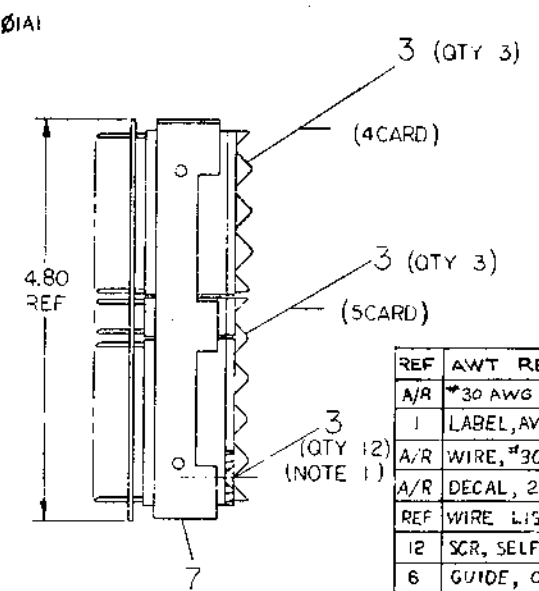
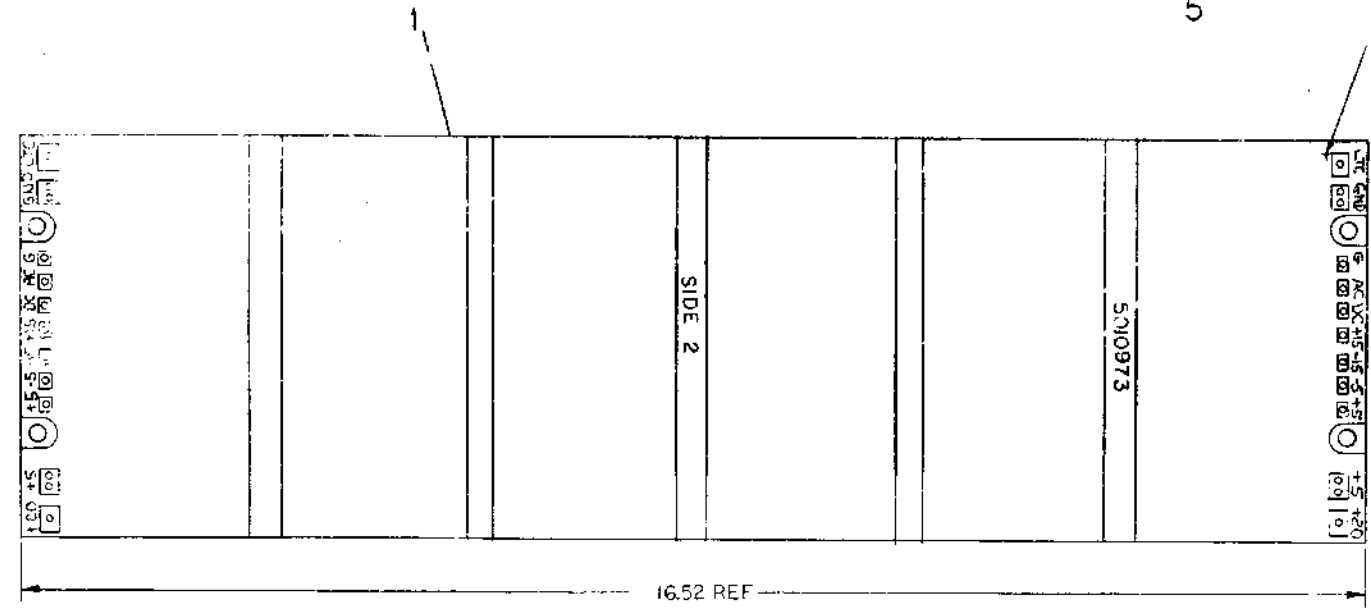
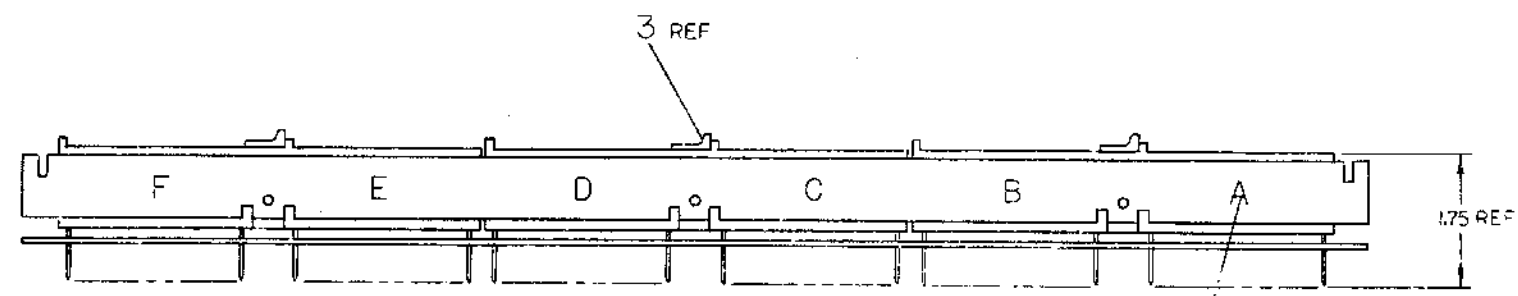
FIRST USED ON: 11/05	SYMBOL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
DIMENSIONAL TOLERANCE			DRN.	DATE	
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED			CHK'D.	DATE	
MILLIMETERS	INCHES	ANGLES	ENG.	DATE	
X.XX ±0.10	.XX ±0.005	10° 30'	PROJ. ENG.	DATE	
X.X ±0.5	.XX ±0.02		PROD. ENG.	DATE	
X ±0.1	X ±0.1		PROD.	DATE	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL SPEC. PARTS LIST			TITLE		
SCALE 1/1			POWER HARNESS		
FINISH			3.5 IN		
D-AD-7010594-0-0			SIZE CODE NUMBER REV.		
SHEET 1/1			DIA 7010113-0-0 A		

REV. 11/05
DIA 7010113-0-0 A

ALL DIMENSIONS AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ANY EQUIPMENT WITHOUT WRITTEN PERMISSION FROM DIGITAL EQUIPMENT CORPORATION.

ITEM NO.	DESCRIPTION		FROM		TO		SIGNAL NAME
	AWG	COLOR	CONN	WITH	CONN	WITH	
5	#30	BLK	A#4L1	SELF	F#1N1	SELF	DPH SER IN L
	TWP	WHT	A#4P1		F#1P1		DPH SI-15 L
6	#30	BLK	B#4E1		F#1E2		DPH SER O L
	TWP	WHT	B#4M1		F#1I2		DPH 50-15 L
7	#30	BLK	B#4P1		F#1K2		DPH RDR ENBL
	TWP	WHT	B#4K1	SELF	F#1R1	SELF	DPH RE-15 L

NOTES:
 1. REPLACE SCREW IN PRINTED CIRCUIT BLOCK WITH ITEM #3
 12 PLACES.
 2. FOR 11/05-S, POWER HARNESS IS SOLDERED TO SLOT A END.



REF	AWT	REV	STATUS	A-WT-7009922-0	QTY
A/R	#30 AWG TWP (BLK/WHT)			9107720-09	8
1	LABEL, AWT REV STATUS			A-DC-7411881-0-0	7
A/R	WIRE, #30 AWG (YEL)			9105740-44	6
A/R	DECAL, 21 POINT (LTR)			B-DC-5308753-0-0	5
REF	WIRE LIST			K-WL-7009922-0-1	4
12	SCR, SELF TAP #8-32 X .81			9009070	3
6	GUIDE, CARD CENTER			C-PS-1210698-0-0	2
1	BACK PLANE ASSY			B-1A-7009921-0-0	1

FIRST USE ON OPTION/MODEL 11/05-S		PARTS LIST	
DIMENSIONAL TOLERANCE		DRN. Carl McCoy	DATE 6-7-74
DIMENSIONS ARE INCHES UNLESS OTHERWISE SPECIFIED		CHK'D [Signature]	DATE 7-29-74
MILLIMETERS	INCHES	ANGLES	DATE 8-20-74
X.XX ±0.10	JXX ±.000	90° 30'	DATE 9-20-74
X.X ±0.5	JX ±.02		DATE 11/17/74
X ±.2	X ±.1		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	
MATERIAL SEE PARTS LIST	FINISH	SIZE CODE D-AD-7010594-0-0	NUMBER D-AD 7009922-0-0
TITLE WIRED ASS'Y		SCALE 1:1	REV. 1
SHEET OF 1		DIST.	

CHANGE PRT
 1. ANTON
 2. 2/74

**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

DATE 9/7/73

TITLE MF11-U/UP CUSTOMER ACCEPTANCE PROCEDURE

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>P. Durand</i>	APPD <i>D. Johnson</i>	12-5-73	SIZE A	CODE SP	NUMBER MF11-U-3	REV
----------------------	------------------------	---------	------------------	------------	--------------------	-----

DEC FORM NO.
DRA 107A

SHEET 1 OF 2

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE MF11-U/UP CUSTOMER ACCEPTANCE PROCEDURE

1.0 Overview

- 1.1 This procedure contains directions pertaining to field assurance of the correct operation of an MF11-U/UP.
- 1.2 Prior to this acceptance, the option will have been installed, inspected, and connected and have power applied. Generally the memories shipped as add ons will have been configured and tested at the factory with their addresses beginning at 000000. Prior to running diagnostics, these memories must be re-configured for the customers system, as directed in the MF11-U/UP Customer Print Set. (See M8293 MAT A)
- 1.3 If this option is part of a PDP-11/40-11/45 installation, as opposed to an add on, then the system acceptance procedures provided with those systems should be utilized in place of this procedure.

2.0 Inspection

- 2.1 Assure presence of the following documentation:
 - 2.1.1 Customer Acceptance Form
 - 2.1.2 Ke; sheets (2)
 - 2.1.3 Accessory Checklist
 - 2.1.4 LIBKIT list for MF11-U/UP
 - 2.1.5 ECO Status Sticker (for mounting in expansion box)
 - 2.1.6 Waiver Sheet (if applicable)
 - 2.1.7 Documentation Update Card (if applicable).
- 2.2 Utilize the accessory checklist, and LIBKIT list to verify that all items are present.

3.0 Diagnostic Testing:

- 3.1 The following tests must be run without error for the times specified:

*Maindec-11-DZQMA Memory I/O 5 min/MF11-U/UP
 Maindec-11-DZQMB Memory Exerciser 5 min/MF11-U/UP
 Maindec-11-DCMFA Parity Test 2 passes/MF11-U/UP
 (MF11-UP Memory Only)

*Only for add-on memories in systems with NPR devices

SIZE A	CODE SP	NUMBER MF11-U-3	REV
------------------	------------	--------------------	-----

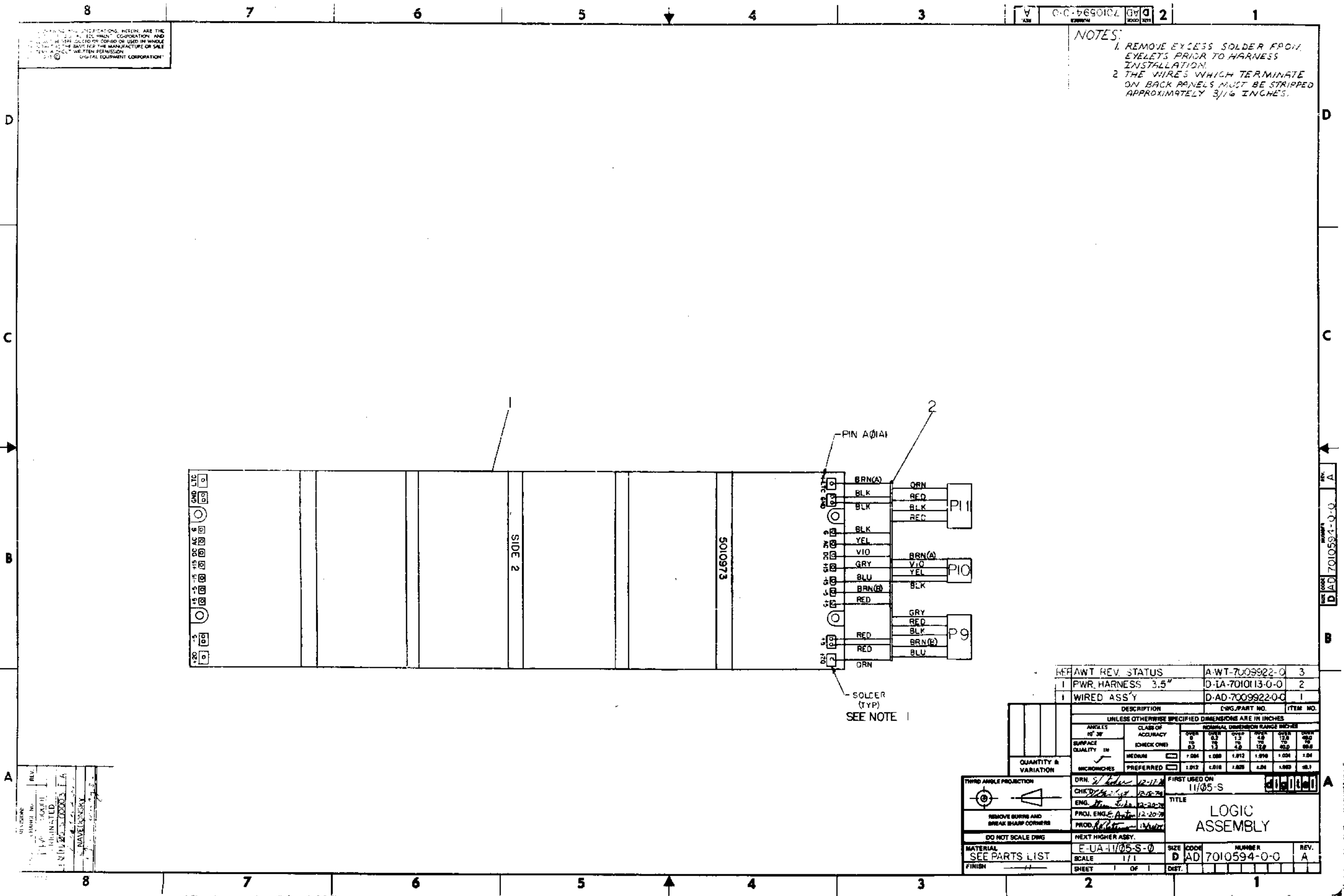
DEC FORM NO DEC 16-(382)-1022-M379
DRA 108

SHEET 2 OF 2

This drawing and specifications, herein, are the property of Digital Equipment Corporation and shall not be reproduced or copied or used in whole or in part as the basis for the manufacture or sale of items without written permission.

ALL DIMENSIONS AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF THE EQUIPMENT CORPORATION AND SHALL BE USED IN WHOLE OR IN PART FOR THE MANUFACTURE OR SALE OF ANY EQUIPMENT WITHOUT WRITTEN PERMISSION OF THE EQUIPMENT CORPORATION.

NOTES:
 1. REMOVE EXCESS SOLDER FROM EYELETS PRIOR TO HARNESS INSTALLATION.
 2. THE WIRES WHICH TERMINATE ON BACK PANELS MUST BE STRIPPED APPROXIMATELY 3/16 INCHES.



REV. STATUS	A-WT-7009922-0	3
PWR. HARNESS 3.5"	D-IA-7010113-0-0	2
WIRED ASS'Y	D-AD-7009922-0-0	1
DESCRIPTION	ENG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES 10° 30°	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN	(CHECK ONE)	OVER 15 TO 4.0 15 TO 12.0 12.0 TO 8.0 8.0 TO 4.0 4.0 TO 1.0 1.0 TO .50
QUANTITY & VARIATION	MEDIUM	1.004 1.008 1.012 1.016 1.024 1.031
THIRD ANGLE PROJECTION	PREFERRED	1.012 1.018 1.025 1.034 1.043 1.051
REMOVE BURRS AND BREAK SHARP CORNERS	DRN: <i>S. J. Baker 12-17-78</i>	FIRST USED ON 11/05-S
DO NOT SCALE DWG	CHK'D: <i>[Signature]</i>	TITLE LOGIC ASSEMBLY
MATERIAL SEE PARTS LIST	ENG: <i>[Signature]</i>	SIZE CODE D AD 7010594-0-0
FINISH	PROD. ENG: <i>[Signature]</i>	REV. A
	NEXT HIGHER ASSY.	NUMBER
	E-UA-11/05-S-0	DIST.
	SCALE 1/1	
	SHEET 1 OF 1	

REV.	DATE	BY
1	12-17-78	S. J. Baker
2	12-20-78	[Signature]
3	12-20-78	[Signature]
4	12-20-78	[Signature]

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			ACCESSORY LIST		LEGEND		QUANTITY VARIATION											
MADE BY E. Pellegrini DATE 5/26/72		CHECKED C. Teschner DATE 5-31-72		SECTION		D	DOCUMENT											
ENG <i>R. D. Wash</i> DATE 5-31-72		PROD <i>R. K. Peters</i> DATE 5/31/72		ISSUED SECT.		DN	DOCUMENT CHANGE NOTICE											
						PA	PAPER TAPE ASCII											
						PB	PAPER TAPE BINARY											
						PM	PAPER TAPE READ-IN-MODE											
ITEM NO	DWG NO. / PART NO.	DESCRIPTION					11/05	11/10	11/05-S	11/10-S			KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1	7008360-0-0	CABLE ASSEMBLY					1	-	-	-								
	11/05-0	CUSTOMER PRINT SET					1	-	-	-								
3	DEC-11-H05AA-A-D	MAINTENANCE MANUAL					*	*	-	-								
4	LIBKIT 11/05 BASEA-A-K	BASIC DIAGNOSTIC KIT					*	*	*	-								
5	LIBKIT 11/05 XBASA-A-K	SYSTEM SOFTWARE KIT					*	*	*	*								
6	DEC-11/05 (5.25) IPB	ILLUSTRATED PARTS BREAKDOWN FOR 11/05 5.25'					1	1	-	-								
		16 BIT COMPUTER																
7	B-DD-11/05	PDP 11/05 PRINT SET					1	1	-	-								
8	B-DD-11/05-S	PDP 11/05-S. 11/10-S PRINT SET					-	-	1	1								
		*NOTE: THESE ITEMS ARE TO BE SHIPPED ONLY WHEN SHOWN ON THE CONSTRUCTION REQ.																
9	DEC-11-HK08B-A-D	K011-B PROCESSOR MANUAL					-	-	*	1								
10	DEC-11-H05SS-A-D	PDP-11/05-S. 11/10-S SYSTEMS MANUAL					-	-	*	1								
11	DEC-11-HK0EF-A-D	B011-K MOUNTING BOX MANUAL					-	-	*	1								
12	DEC-11-HMFMA-B-D	MP11-U/UP CORE MEMORY MANUAL					-	-	*	1								
13	DEC-11-H55-PK-A-D	PDP-11/05 OEM MANUALS PACKAGE					*	*	*	*								
TITLE				ASSY. NO.	SIZE CODE	NUMBER		REV	ECO NO									
PDP-11/05 ACCESSORY LIST				11/05-0-0	A AL	11/05-0-4		F	11/05-S									
SHEET 1 OF 1																		