

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

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE
DRAWING DIRECTORY 11/05-S
UNIT ASSY 11/05-S
UNIT ASSY 11/05-S PL
MODULE UTILIZATION
16 BIT PROCESSOR
MF11-U TIMING DIAGRAM
16K UNIBUS TIMING
16K X-Y DRIVE
16K SENSE INHIBIT
STACK BOARD
BUS TERMINATOR
BERG BACKPLANE CONN
GRANT CONTINUITY
CABLE TTY
11/05-S BACKPLANE
DRAWING DIRECTORY KY11-J
DRAWING DIR. BASIC BOX + P.S.
MAINTENANCE BOARD
SILK SCREEN, PANEL LIGHT
SILK SCREEN, PANEL LIGHT
CONSOLE PWR HARNESS
POWER HARNESS 3.5 IN.
SOFTWARE LIST 11/05
WIRED ASSY
MF11-U/UP ACCEPTANCE PROCEDURE
LOGIC ASSEMBLY
ACCESSORIES LIST

B-DD-11/05-S
E-UA-11/05-S-0
A-PL-11/05-S-0
D-MU-11/05-S-MU
B-DD-KD11-B
D-TD-MF11-U-1
D-CS-M8293-0-1
D-CS-G235-0-1
D-CS-G114-0-1
D-CS-H217-0-1
D-CS-M930-0-1
D-CS-M997-0-1
B-CS-G727-0-1
D-IA-7008360-0-0
D-CS-5410972-0-1
B-DD-KY11-J
B-DD-BA11-K
D-BS-KM11-0-MB
A-SS-5509081-0-9
A-SS-5509081-0-10
D-IA-7009900-0-0
D-IA-7010123-0-0
A-SL-11/05-0-5
B-AD-7009922-0-0
A-SP-MF11-U-3
D-AS-7010594-0-0
A-AL-11/05-0-4

SEQUENCE
MFG. PRINT SET
11/05 ACCEPTANCE PROCEDURE
AWT REVISION STATUS
BACKPLANE ASSY
CABLE FOLDING DIAGRAM
IN-PLANT PACKAGE INSTRUCTIONS
SKID LOAD PACKAGE INSTRUCTIONS
CUSTOMER CUSHIONED PACKAGE INSTRUCTIONS
HEAT BOX ASSY
HEAT BOX DETAILS

A-SP-11/05-0-9
A-WT-7009922-0
D-AD-7009921-0-0
D-MD-7412357-0-0
A-SP-3700168-0-0
A-SP-3700165-0-0
A-SP-3700169-0-0
E-IA-9305950-0
E-IA-9606267-0

UNIT VARIATIONS		PRINT SET	
VAR	TITLE		
11/05-SC	115 VAC 50/60 HZ	X	
11/05-SD	230 VAC 50/60 HZ	X	
11/10-SC	115 VAC 50/60 HZ	X	
11/10-SD	230 VAC 50/60 HZ	X	

NOTE: THIS PRINT SET IS ALSO APPLICABLE TO THE PDP 11/10-S COMPUTER.

REV. NO.	REV	A
	DATE	E.A. 11/05-5-1
		E.A. 11/05-S-2
		C.N. 11/05-S-3
		C.N. 11/05-S-4

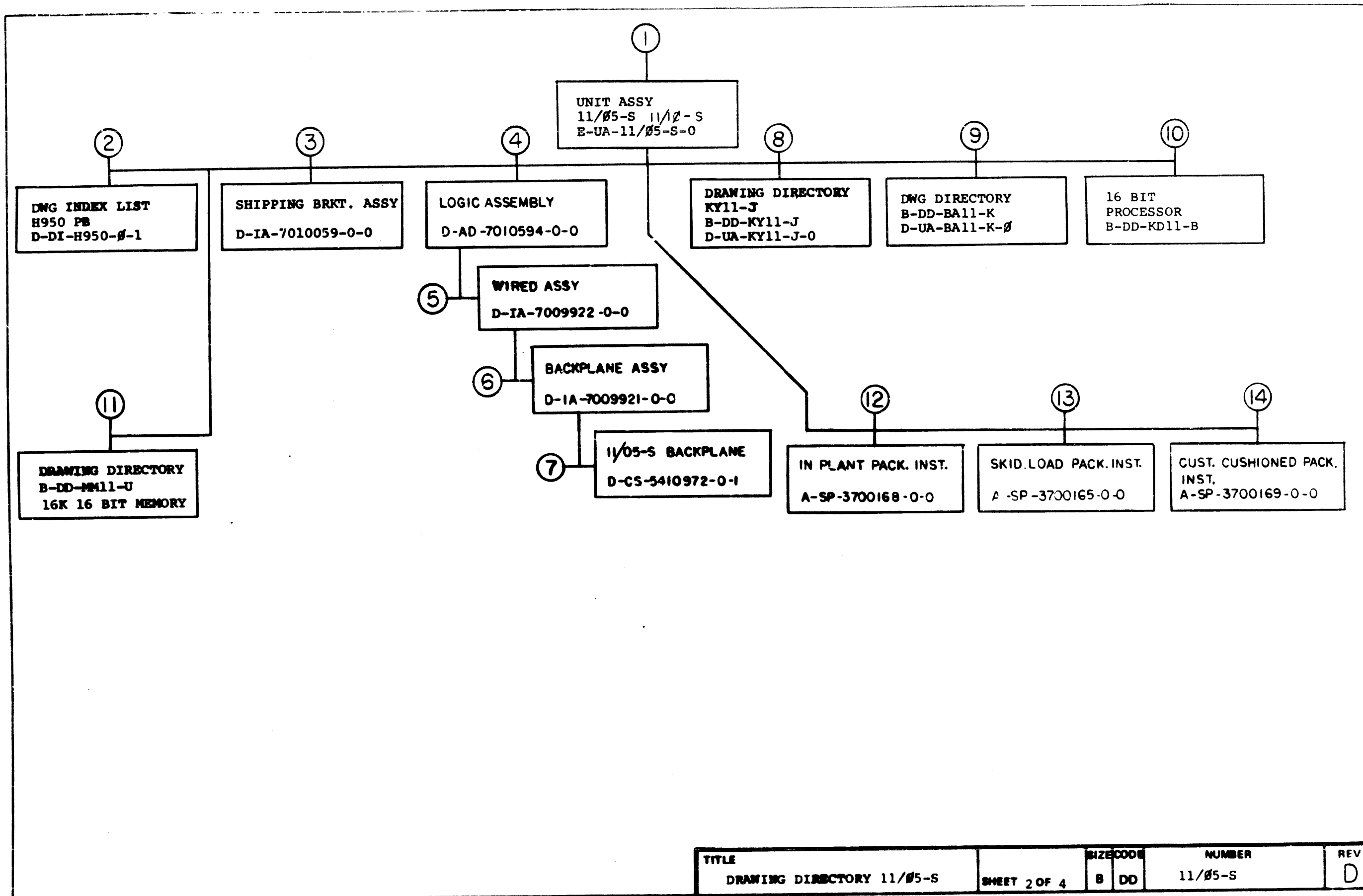
USED ON OPTIC/MODEL	DRM. J. FERGUSON	DATE 7/12/74	TITLE DRAWING DIRECTORY 11/05-S
	CHK'D. D. HEALY	DATE 7/12/74	
	PROJ. ENG. Ed. Anten	DATE 9/4/74	
	PROD. R.K. Peterson	DATE 10/1/74	
	FIELD SERV. R.L. Gates	DATE 9/13/74	

SIZE	CODE	NUMBER	REV
B	DD	11/05-S	D

SHEET 1 OF 4

DIST

DEC 16 10:23:10 AM 1974



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				D-CS-G114-0-1	#	9	16 K SENSE INHIBIT	
X			D-BS-KM11-0-MB	#	3	MAINTENANCE BOARD				D-CS-M8293-0-1	#	10	16 K UNIBUS TIMING	
X			A-SS-5509081-0-9	#	1	SILK SCREEN, MAINT. BD.				D-CS-G235-0-1	#	6	16 K X/Y DRIVE	
X			A-SS-5509081-0-10	#	1	SILK SCREEN, MAINT. BD.				D-CS-H217-0-1	#	3	STACK	
X			D-MU-11/05-S-MU		1	MODULE UTILIZATION				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	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-11/05-S-0	A	1	UNIT ASSY 11/05-S		X	6	D-IA-7009921-0-0	#	1	BACK PLANE ASSY		
	X		A-PL-11/05-S-0	A	2	UNIT ASSY 11/05-S PL									
			C-MD-7411701-0-0		1	SPACER, CHASSIS FRONT									
			D-PS-1211474-0-0		1	STRIP, FILLER 1.75									
			B-MD-7412341-0-0		1	STRIP, FILTER									
			D-IA-7010113-0-0		1	POWER HARNESS 3.5 IN.									
X			D-IA-7009908-0-0	#	1	CONSOLE PWR HARNESS				7	D-CS-5410972-0-1		1	11/05-S BACKPLANE	
	X		D-MD-7412357-0-0		1	CABLE FOLDING DIAGRAM					K-CO-5410972-0-4			X-Y COORDINATE HOLE LOC.	
			A-DC-7412302-0-0		1	DECAL 11/05-S					D-AH-5410972-0-5		1	ASSY/DRILLING HOLE LAYOUT	
			D-MD-7412184-0-0		1	CABLE TROUGH, CHASSIS					B-MH-5410972-0-6			MODULE ECO HISTORY	
X			D-IA-7008360-0-0	#	1	CABLE, TTY					5010973			ETCH BOARD	
			D-SP-1211825-0-0			SLIDE, 3 POS. TILT									
			A-DC-5309414-0		1	DECAL, UL			X	8	B-DD-KY11-J	#	3	DRAWING DIRECTORY KY11-JA	
			A-DC-5309413-0		1	DECAL, NPPA			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			DRAWING INDEX LIST			X	10	B-DD-KD11-B	#	3	16 BIT PROCESSOR	
			D-UA-H950-P-0			COVER PANEL 5'4" BEZEL H950-PB			X		A-PL-KD11-B	#	1	16 BIT PROCESSOR	
									X	11	B-DD-MM11-U	#		16K 16 BIT MEMORY	
		3	D-IA-7010059-0-0		1	SHIPPING BRKT. ASSY			X	12	A-SP-3700168-0-0		3	IN PLANT PACK. INST.	
			C-MD-7412190-0-0		1	SHIPPING BRKT. PT. 1					A-PS-9905050-0-0		2	REGULAR SLOTTED CARTON	
			D-MD-7412191-0-0		1	SHIPPING BRKT. PT. 2					A-PS-9905335-0-0		2	BEZEL PROTECTOR	
											A-PS-9905644-0-0		2	REAR PAD	
											A-PS-9905323-0-0		2	LAMINATED SADDLE	
	X	4	D-AD-7010594-0-0	#	1	LOGIC ASSEMBLY					A-PS-9905129-0-0		4	POLY BAG	
X			D-IA-7010113-0-0	#	1	POWER HARNESS 3.5IN.									
	X	5	D-AD-7009922-0-0	#	1	WIRED ASSY			X	13	A-SP-3700165-0-0		4	SKID LOAD PACK. INST.	
			C-PS-1210698-0-0		1	GUIDE, CARD CENTER					A-PS-1210568-01-0		2	CUSHIONED SKID	
			B-DC-5308753-0-0		1	DECAL, 21 POINT (LTR)					A-PS-9905445-0-0		2	HALF OVERLAP SLOTTED CARTON (TOP)	
			A-DC-7410881-0-0		1	LABEL, REV STATUS					A-PS-9905419-0-0		2	FLANGED TUBE (BOTTOM)	
	X		K-WL-7009922-0-1	#		WIRE LIST									
	X		A-WT-7009922-0	#	1	AWT REVISION STATUS			X	14	A-SP-3700169-0-0		2	CUST. CUSHIONED PACK. INST.	
											A-PS-9905645-0-C		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
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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 *R. E. Johnson*
 DATE 8-23-74

CHECKED D. HEALY
 DATE 7/10/74
 PROD *W. J. ...*
 DATE 8/23/74

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-SD (230V 16K)
3	D-IA-7008360-0-0	CABLE TTY	11/05-SD (230V 16K)
4	D-IA-7010594-0-0	LOGIC ASSEMBLY	11/05-SD (15V 16K)
5	C-MD-7411701-0-0	SPACER, CHASSIS FRONT	11/05-SD (230V 16K)
6	B-DD-KY11-JA	CONSOLE ASSY	11/05-SD (15V 16K)
7	D-PS-1211474-0-0	STRIP, FILLER 1.75	11/05-SD (230V 16K)
8	9006074-3	SCR, PHL HD TRUSS #10-32 x .68	11/05-SD (15V 16K)
9	9006070-2	SCR, PHL HD FLAT #10-32 x .31	11/05-SD (230V 16K)
10	9009033-1	SCR, PH HD PAN THD CUT #10-16 x 1.0	11/05-SD (15V 16K)
11	B-ER-7010113-0-0	POWER HARNESS 3-3 IR.	
12	D-IA-7009908-0-0	CONSOLE PWR HARNESS	11/05-SD (15V 16K)
13	D-MD-7412357-0-0	CABLE FOLDING DIAGRAM	11/05-SD (230V 16K)
14	MM11-U	16K 16 BIT MEMORY	11/05-SD (15V 16K)
15	A-DC-7412302-0-0	DECAL 11/05-S	11/05-SD (230V 16K)
16	9006043-1	SCR, PH PAN HD #8-32 x 1.0	11/05-SD (15V 16K)
17	D-MU-11/05-S-MU	MODULE UTILIZATION	11/05-SD (230V 16K)
18	B-DD-BA11-KH	BASIC BOX +P.S. 11.5V	11/05-SD (15V 16K)
19	B-DD-BA11-KJ	BASIC BOX +P.S. 230V	11/05-SD (230V 16K)
20	B-DD-KD11-B	16 BIT PROCESSOR	11/05-SD (15V 16K)
21	D-CS-M930-0-1	BUS TERMINATOR M930	11/05-SD (230V 16K)
22	D-CS-M997 -0-1	BERG BACKPLANE CONN	11/05-SD (15V 16K)

TITLE UNIT ASSY 11/05-S
 ASSY NO. E-UA-11/05-S-0
 SIZE CODE A PL
 SHEET 1 OF 2
 NUMBER 11/05-S-0
 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 *R. E. Johnson*
 DATE 8-23-74

CHECKED D. HEALY
 DATE 7/10/74
 PROD *W. J. ...*
 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	11/05-SD (230V 16K)
26	* D-PS-1211825-0-0 *	SLIDE, 3 POS TILT	11/05-SD (15V 16K)
27	9007651	WASHER EXTERNAL TOOTH #10	11/05-SD (230V 16K)
28	9006071-3	SCREW, PHL TRUSS HD #10-32x.38	11/05-SD (15V 16K)
29	9006565	NUT, KEPS, #10-32	11/05-SD (230V 16K)
30	9006020-3	SCREW, PHL. TRUSS HD. #6/32x.25	11/05-SD (15V 16K)
31	9006633	WASHER INTERNAL TOOTH LOCK #6	11/05-SD (230V 16K)
32	D-IA-7009768-0-0	COVER, CHASSIS	11/05-SD (15V 16K)
33	DEC-3-(374)-1825-N1174	STICKER, "CONFIGURATION"	11/05-SD (230V 16K)
34	A-SP-3700168-0-0	IN PLANT PACK, INST.	11/05-SD (15V 16K)
35	A-SP-3700165-0-0	SKID LOAD PACK, INST.	11/05-SD (230V 16K)
36	A-SP-3700169-0-0	CUST. CUSHIONED PACK, INST.	11/05-SD (15V 16K)
37	A-DC-5309414-0	DECAL, UL	11/05-SD (230V 16K)
38	A-DC-5309413-0	DECAL, NFPA	11/05-SD (15V 16K)
39	A-SP-11/05-S-1	11/05-S ASSEMBLY PROCEDURE	11/05-SD (230V 16K)
40	B-DD-KY11-JB	CONSOLE ASSEMBLY	11/05-SD (15V 16K)
*		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
 SHEET 2 OF 2
 NUMBER 11/05-S-0
 REV. ECO NO. U

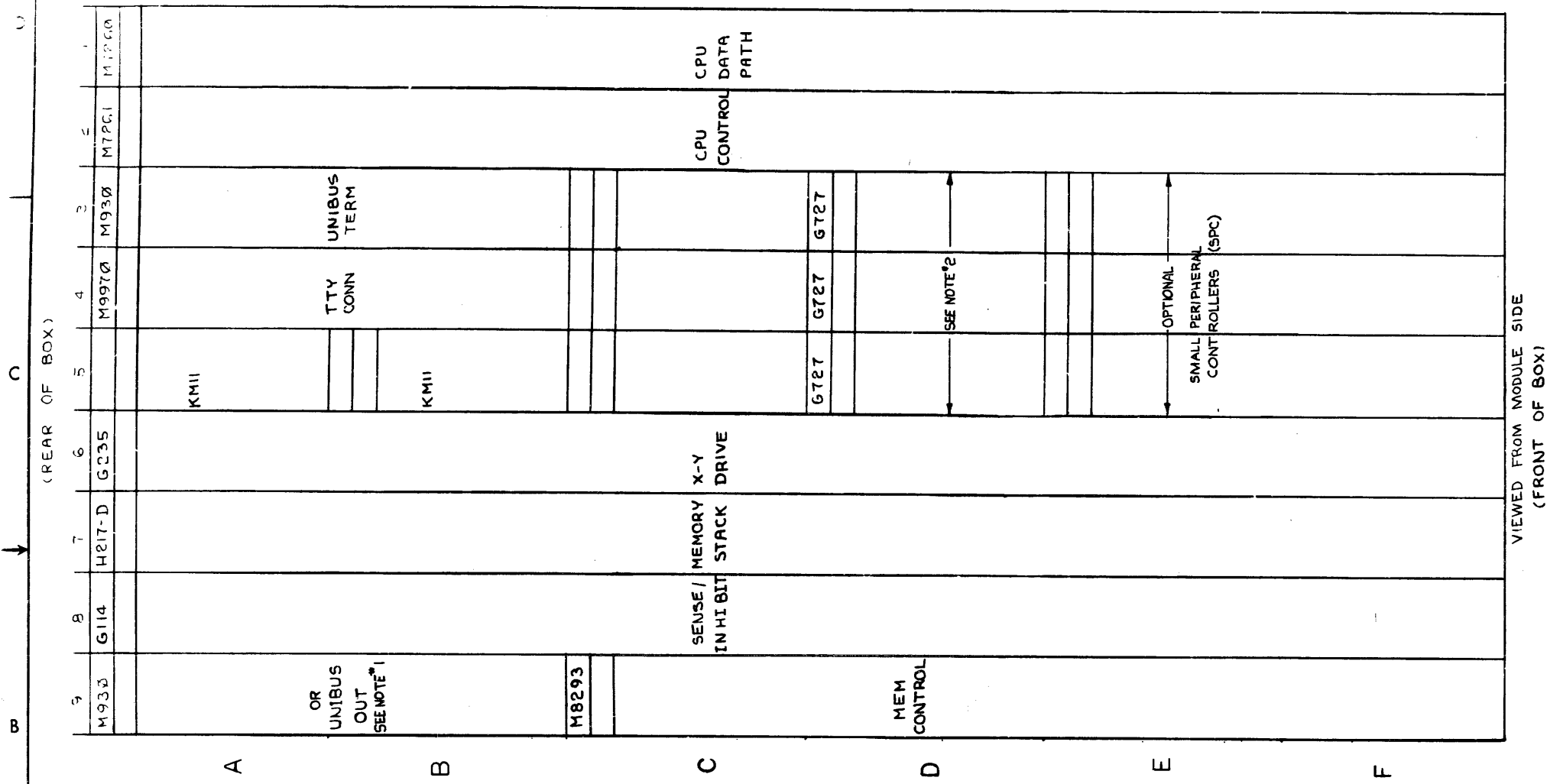
DEC FORM DEC 16 (325) 1031 N870
 DRA 110

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NW-S-30/11/05 2

NOTES

- BEFORE THE 11/05 IS CONNECTED TO OTHER SYSTEM OPTIONS, THE M30 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.



VIEWED FROM MODULE SIDE (FRONT OF BOX)

REV	CHANGED BY	DATE

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>M. B. 7/25/74</i>	DATE 7/25/74		
		CHK'D. <i>D. Nally</i>	DATE 7-29-74		
		ENG. <i>C. Newland</i>	DATE 8-23-74		
		PROD. <i>W. J. ...</i>	DATE		
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		TITLE	
		NEXT HIGHER ASSY.		MODULE UTILIZATION	
MATERIAL		FINISH		SIZE CODE	NUMBER
H		H		DMU	11/05-S-MU
SCALE		SHEET		REV.	
		OF			

REV. 11/05-S-MU

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET X

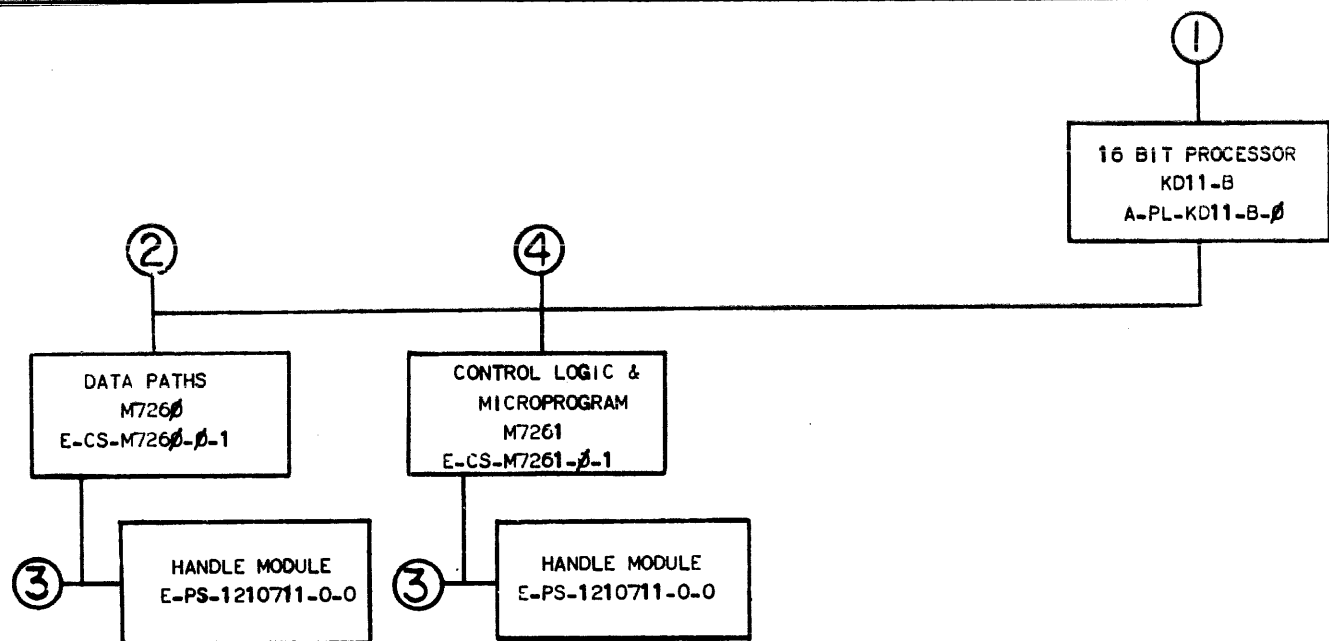
SEQUENCE	SEQUENCE
16 BIT PROCESSOR KD11-B	B-DD-KD11-B
MICROPROGRAM FLOW	K-MP-KD11-B-1
MICROPROGRAM SYMBOLIC LISTING	K-MP-KD11-B-2
MICROPROGRAM BINARY LISTING	K-MP-KD11-B-3
MICROPROGRAM CROSS REF. LISTING	K-MP-KD11-B-4
DATA PATHS	E-CS-M7261-β-1
DATA PATH ROM PATTERNS	K-RL-M7261-β-2
CONTROL LOGIC & MICROPROGRAMS	E-CS-M7261-β-1
CONTROL LOGIC ROM PATTERNS	K-RL-M7261-β-2

UNIT VARIATIONS		PRINT SET TYPE			
VARIATION	TITLE	KD11-B			
KD11-B	16 BIT PROCESSOR				

REVISIONS

DATE	CHG. NO.	REV
	KD11B-00002	A
MT	KD11B-3	B
M.T	KD11B-4	C
D.R.	KD11B-5	D
D.R.	KD11B-6	E

USED ON OPTION/MODEL	DRN. J. CAHILL	DATE 4/21/72	TITLE	NUMBER	REV
	CHK'D. C. Techner	DATE 6-15-72	16 BIT PROCESSOR		
	PROJ. ENG. A. Techer	DATE 5-16-74	KD11-B		
	PROD. R. P. Techer	DATE 5/16/72			
	FIELD SERV. D. Techer	DATE			
SHEET 1 OF 3			SIZE CODE B DD	NUMBER KD11-B	REV E
DIST					



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

CUSTOMER PRINT SET				ELECTRICAL					CUSTOMER PRINT SET				MECHANICAL								
KD11-B				MF3. SET	FIND NO.	DRAWING NO.	REV	NO OF SHY	DESCRIPTION	OPTION NO.	KD11-B				MF3. SET	FIND NO.	DRAWING NO.	REV	NO OF SHY	DESCRIPTION	OPTION NO.
					1.	A-PL-KD11-B-0		1	16 BIT PROCESSOR (KD11-B)							1.	A-PL-KD11-B-0		1	16 BIT PROCESSOR (KD11-B)	
C						K-MP-KD11-B-1	C	22	MICROPROGRAM FLOW												
C						K-MP-KD11-B-2	E	6	MICROPROGRAM SYMBOLIC LISTING												
C						K-MP-KD11-B-3	E	7	MICROPROGRAM BINARY LISTING												
C						K-MP-KD11-B-4		3	MICROPROGRAM CROSS REF. LISTING							2.	E-CS-M7260-0-1		10	DATA PATHS (M7260)	
																	B-MH-M7260-0-6		1	MODULE ECO HISTORY	
																	K-CO-M7260-0-4		1	X-Y CO-ORDINATE HOLE HISTORY	
																	B-AH-M7260-0-5		1	ASSY/DRILLING HOLE	
																3.	E-PS-1210711-0-0		1	HANDLE MODULE	
X					2.	E-CS-M7260-0-1	#	10	DATA PATHS (M7260)												
						B-MH-M7260-0-6		1	MODULE ECO HISTORY												
						K-CO-M7260-0-4		1	X-Y CO-ORDINATE HOLE LOCATION												
						B-AH-M7260-0-5		1	ASSY/DRILLING HOLE												
X						K-RL-M7260-0-8	#	15	DATA PATH ROM PATTERNS							4.	E-CS-M7261-0-1		13	CONTROL LOGIC & MICROPROGRAM	
																	B-MH-M7261-0-6		1	MODULE ECO HISTORY	
																	K-CO-M7261-0-4		1	X-Y CO-ORDINATE HOLE LOCATION	
																	B-AH-M7261-0-5		1	ASSY/DRILLING HOLE	
X					4.	E-CS-M7261-0-1	#	13	CONTROL LOGIC & MICROPROGRAM												
						B-MH-M7261-0-6		1	MODULE ECO HISTORY												
						K-CO-M7261-0-4		1	X-Y CO-ORDINATE HOLE LOCATION												
						B-AH-M7261-0-5		1	ASSY/DRILLING HOLE												
X						K-RL-M7261-0-8	#	57	CONTROL LOGIC ROM PATTERNS												

TITLE	SIZE CODE	NUMBER	REV
16 BIT PROCESSOR KD11-B	B DD	KD11-B	E

SHEET 3 OF 7

PAGE REVISION CONTROL SHEET

PAGE REVISIONS

REMARKS

SH NO.	REV.	DATE	ENG.	ETCH REV.	ECO NO.
1	A				
2	A	8-28-72	BA		KD112-2
3	A				
4	A	9-21-72	MT		KD112-3
5	A				
6	A				
7	A	6-14-74	D.R.		KD112-6
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				

FIRST USED ON OPTION/MODEL
KD11-B

DRN. G. TOWNE DATE 8-21-72
 CHK'D. *[Signature]* DATE 8-21-72
 ENG. *[Signature]* DATE 8-29-72
 PROJ. ENG. *[Signature]* DATE 8-29-72
 PROD. *[Signature]* DATE

digital EQUIPMENT CORPORATION
 MAYNARD MASSACHUSETTS
 TITLE
 MICROPROGRAM
 FLOW

NEXT HIGHER ASSY.
 B-DD-KD11-B
 SCALE *1/4*
 SHEET 1 OF 22

SIZE CODE NUMBER REV.
 K MP KD11-B-1 C
 DIST.

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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|9>); LIKEWISE, R(D) REFERS TO THAT REG SPECIFIED IN THE DESTINATION PORTION OF THE CURRENT INST; (IR<21|8>);
- 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  F=1  0A=PC; DAT;
003  365  F=2  0=PC+2
305  364  F=3  PC=0; CKOFF
304  061  F=4  0;IR=UNIBUS DATA
001  001  F=5  0=0 SEX; BUT IR DECODE
      / IF DOUBLE OP INST GOTO 30=1 THRU 37=1 DEPENDING ON SOURCE MODE
      / IF SINGLE OP INST GOTO 08=1 THRU 07=1 DEPENDING ON DEST MODE (INCLUDING JSR)
      / IF BRANCH, CHANGE PC GOTO 0=1
      / IF BRANCH, PC UNCHANGED GOTO 82=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=HALT GOTO H=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<1119>=0
201  007  S0=1  B=R[S]; BUT BYTE
          / IF BYTE INST GOTO SBE=1 (MUST BE EVEN BYTE)
207  001  S0=2  R[10]=B; BUT DESTINATION
          / IF IR<513> =0 GOTO D0=1
          /           =1   D1=1
          /           =2   D2=1
          /           =3   D3=1
          /           =4   D4=1
          /           =5   D5=1
          /           =6   D6=1
          /           =7   D7=1

```

```

LOC  NXT  * SOURCE MODE 1 (REG; DEFERRED) GET SOURCE DATA
          / GET TO S1=1 FROM F=5 VIA BUT IR DECODE IR<1119>
203  244  S1=1  BA=R[S]; DAT!! CKOFF! ALBYT
          / GET TO S1=2 FROM S2=3 VIA GOTO
          /           "      S3=5   "
          /           "      S6=5   "
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<1119>=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
214  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<1119>=3
207  016  S3=1  BA=R[S]; DAT! (MUST BE AN EVEN ADDRESS HERE)
216  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 S0=1 VIA BUT BYTE, (BYTE INST,)
247  001  SBE=1 R[10]B SEX) BUT DESTINATION
          / IF IF<513> =0 GOTO DB=1
          / " " " " D1=1
          / " " " " D2=1
          / " " " " D3=1
          / " " " " D4=1
          / " " " " D5=1
          / " " " " D6=1
          / " " " " D7=1

```

```

LOC  NXT  * DEST, MODE 0 (REGISTER), GET DEST DATA, OP, AND REPLACE
          / GET TO DB=1 FROM SB=2 VIA BUT DESTINATION (IR<513>=0)
          / GET TO DB=1 FROM SBE=1 VIA BUT DESTINATION (IR<513>=0)
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=0
          / 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)

```

```

162 332 D0=3 R[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=R 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 FRT1A
/ 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 UATR RECEIVE GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1

LOC NXT * DEST. MODE 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)
103 200 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=3 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 BYTE
/ 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=8 VIA GOTO
161 334 D1=4 R[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=1R VIA GOTO

```

```

/ IF NONMOD GOTO B2-2 (BUT SERVICE)
/ IF NOT NONMOD FALL THROUGH TO D1-5
334 065 D1-5 DATI; ALBYT; CKOFF
/ GET TO D1-6 FROM D0-18 VIA GOTO
065 305 D1-6 DRIVERS-8; GOTO S2-2 (BUT SERVICE)

```

```

LOC NXT * DEST MODE 2 (AUTO-INC) GET DEST DATA, OP AND REPLACE
/ GET TO D2-1 FROM S0-2 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 S0-2 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 S0-2 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 B,BA=RDJ=2; DATI; ENABOVER; GOTO DJ=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)
113 075 D6=1 BA=PC; DATI
075 077 D6=2 B=PC+2
077 057 D6=3 PC=0; CKOFF
057 300 D6=4 B=UNIBUS DATA
300 200 D6=5 B,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 BA=PC; DATI
310 104 D7=2 B=PC+2
104 320 D7=3 PC=0; CKOFF
320 100 D7=4 B=UNIBUS DATA
100 071 D7=5 BA=B+RDJ; DATI; CKOFF; GOTO DJ=4

```

```

LOC NXT * DESTINATION MODE 0, BYTE
/ GET TO DB=1 FROM DB=1 VIA BUT BYTE (BYTE INST AND MOVE, BAR)
136 144 DB=1 R(11),B=B SEX; BUT UNARY
/ IF UNARY OTHER THAN JSR, JMP, OR SWAB (CLR, COM, INC, DEC, NEG, ABC, SRC, TST, RDR, 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 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 RECEIVR GOTO URTR
/ IF UART TRANSMIT GOTO URTX
/ IF CONSOLE STOP GOTO H=1
/ IF NONE OF THE ABOVE GOTO F=1

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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),_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 B_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, ROI, 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 MB=0 FROM D0=1 VIA BUT MOVE (INST=MOVE AND BYTE)
 154 240 MB=0 PRE AUX
 240 152 MB=1 B_R[101] OP 8
 152 040 MB=2 R[D]_B SEX; 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 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+8
146 048 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)
151 358 CCM=1 B=8 AND K[17]
358 112 CCM=2 BUT DEST
/ IF INST= SET, GO TO SC=1
/ IF INST= CLEAR, GOTO CC=1

```

```

LOC NXT * CLEAR CONDITION CODES
112 048 CC=1 PSW=PSW AND (B'BAR); BUT SERVICE
/ THIS EFFECTIVELY CLEARS THOSE BITS OF THE PSW WHICH ARE SET

```



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```

LOC  NXT  * SET CONDITION CODES
116  040  SC=1 PSW_PSW OR B; BUT SERVICE
        / PRIORITIES ARE LISTED HIGHEST TO LOWEST
        / IF T BIT TRAP GOTO RT=1
        / IF STACK OVERFLOW GOTO ERT1A
        / 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 D0=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  176  SB1=5 ROTATE B LEFT; F SHIFT
176  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
012  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
    
```

LOC NXT * JMP
 / GET TO J1=1 FROM D1=1 VIA BUT JSRMP (INST=JMP)
 / GET TO J1=1 FROM D2=3 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 I 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=3 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(8)
 216 263 J2=5 B_PC
 263 264 J2=6 R(8)_B
 264 265 J2=7 R_P(111)
 265 040 J2=8 PC_B; BUT SERVICE
 / PRIORITIES ARE LISTED HIGHEST TO LOWEST
 / IF I 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=5 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  B,BA=R[6]=8; ENABOVER
214  206  J2=3  R[6]=0; CKOFF; DATO
206  216  J2=4  DRIVERS=R[9]
216  263  J2=5  B=PC
203  264  J2=6  R[8]=0
204  269  J2=7  B=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 GLOCK GOTO LC=1
          / IF BR5 GOTO BG=1
          / IF BR4 GOTO BG=1
          / IF UARY RECEIVE GOTO URTR
          / IF UARY TRANSMIT GOTO URYX
          / 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)
203  221  R1=1  BA=R[6]; DATI
221  222  R1=2  B=R[6]=2
222  223  R1=3  R[6]=0
223  224  R1=4  B=R[0]
224  229  R1=5  PC=0; CKOFF
225  332  R1=6  B=UNIBUS DATA; GOTO D0=4

```

```

LOC  NXT  * RTI
          / GET TO R2=2 FROM F=5 VIA BUT IR DECODE (INST=RTI)
227  230  R2=1  BA=R[6]; DATI
230  231  R2=2  B=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
237 385 R2=9 PS=UNIBUS DATA/ GOTO B2=2 (BUT SERVICE)

```

```

LOC  NXT  * WAIT
      / GET TO W=1 FROM P=5 VIA BUT IR DECODE (INST=WAIT)
      / GET TO W=1 FROM W=1 VIA GOTO IF BUT SERVICE IS FALSE
843  848  W=1  BUT SERVICE
      / THE MICRO PROGRAM WILL LOOP ON W=1 UNTIL SOME HIGHER
      / PRIORITY CONDITION IS RECOGNIZED BY THE 'BUT 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 URTR
      / IF UART TRANSMIT TOTO URTX
      / IF CONSOLE STOP GOTO H=1
      / IF NONE OF THE ABOVE TOTO P=1

```

```

LOC  NXT  * HALT
      / GET TO W=1 FROM P=5 VIA BUT IR DECODE (INST=HALT)
      / GET TO W=1 FROM BUT SERVICE
841  382  W=1  B=PC
      / DISPLAY PC IN LIGHTS BY PUTTING IT INTO B
      / GET TO W=2 FROM CEI=3 VIA GOTO
      / GET TO W=2 FROM CDI=5 VIA GOTO
      / GET TO W=2 FROM CL=3 VIA GOTO
382  388  W=2  BA=R[17]/ BUT 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

```



```

) / IF EXAMINE (1 ST) GOTO CE1=1
) / IF EXAMINE (NOT 1 ST) GOTO CE2=1
) / IF DEPOSIT (1 ST) GOTO CD1=1
) / IF DEPOSIT (NOT 1 ST) GOT CD2=1
) / IF LOAD GOTO CL=1
) / IF NO SWITCHES ARE DEPRESSED LOOP ON H=2

```

```

LOC NXT * EMT TRAP (VECTOR LOC=30)
) / GET TO ET=1 FROM F=5 VIA BUT IR DECODE (INST=EMT)
) 011 245 ET=1 B=K[30]
) / GET TO ET=2 FROM BT=1 VIA GOTO
) / GET TO ET=2 FROM IT=1 VIA GOTO
) / GET TO ET=2 FROM T=1 VIA GOTO
) / GET TO ET=1 FROM RT=1 VIA GOTO
) / GET TO ET=2 FROM ERT=1 VIA GOTO
) / GET TO ET=2 FROM PP=1 VIA GOTO
) 245 246 ET=2 R[12]=0
) 246 247 ET=3 B,BA=R[6]=2 ENABOVER
) / ET=4 HAS BEEN ELIMINATED
) 247 226 ET=5 R[6]=0 CKOFF DATA
) 226 251 ET=6 DIRVERS=PS
) 251 252 ET=7 B,BA=R[6]=2 ENABOVER
) 252 253 ET=8 R[6]=0 CKOFF DATA
) 253 254 ET=9 DIRVERS=PC
) 254 255 ET=10 BA=R[12] DATA CKOFF
) 255 256 ET=11 PC=UN[BUS DATA
) 256 257 ET=12 BA=R[12]=2 DATA CKOFF
) 257 305 ET=13 PS=UN[BUS DATA GOTO B2=2 (SERVICE)

```

```

LOC NXT * BREAKPOINT TRAP (VECTOR LOC=14) AND T BIT TRACE TRAP
) / GET TO BT=1 FROM ALL BUT SERVICE
) / GET TO BT=1 FROM F=5 VIA BUT IR DECODE (INST=BREAKPOINT)
) 045 245 BT=1 B=K[14] GOTO ET=2

```

```

LOC NXT * IOT (VECTOR LOC=20)
) / GET TO IT=1 FROM F=5 VIA BUT IR DECODE (INST=IOT)
) 273 245 IT=1 B=K[20] GOTO ET=2

```

```

LOC  NXT  * TRAP (VECTOR LOC=34)
          / GET TO Y=1 FROM P=5 VIA BUT IR DECODE (INST=TRAP)
021  245  Y=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=01 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
317 307 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
307 326 CE1=2 DAT; CKOFF
326 302 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
315 371 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
313 303 CD1=1 B=R[17]; BUT SWITCH
/ LOOP ON CD1=1 UNTIL DEPOSIT SWITCH IS RELEASED
303 374 CD1=2 BA=K(207),BAR; DAT; CKOFF
/ COMPLEMENT OF 207 & 177970 * SWITCH REGISTER ADDRESS
374 314 CD1=3 B=UNIBUS DATA
314 372 CD1=4 BA=R[17]; DAT; CKOFF
372 302 CD1=5 DRIVERS=B; GOTO H=2

```

LOC NXT • CONSOLE DEPOSIT SWITCH - OTHER THAN FIRST IN SEQUENCE (INC R[17])
 / GET TO CD2=1 FROM H=3) VIA BUT SWITCH
 312 337 CD2=1 B=R[17]+2
 / R[17] IS IN BA; THIS WILL CAUSE +2 TO BECOME +1 WHEN DEPOSITING INTO REGISTERS
 337 313 CD2=2 R[17]+B; GOTO CD1=1

LOC NXT • CONSOLE CONTINUE SWITCH
 / GET TO CC3=1 FROM H=2 VIA BUT SWITCH
 316 276 CC3=1 B=PC
 276 278 CC3=2 BUT SWITCH
 278 262 CC3=3 IR=ZERO; GOTO P=1
 / CLOCKING THE IR TURNS ON THE RUN LIGHT

LOC NXT • CONSOLE LOAD SWITCH
 / GET TO CL=1 FROM H=2 VIA BUT SWITCH
 311 375 CL=1 B=A[K(207),BAR; DAT]; CKOFF
 / COMPLEMENT OF 207 & 177578 • SWITCH REGISTER ADDRESS
 375 367 CL=2 B=UNIBUS DATA
 367 382 CL=3 R[17]+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 R[17].

LOC NXT • POWER FAIL (VECTOR LOC=24)
 / GET TO PF=1 FROM SERVICE
 243 245 PF=1 B=A[K(24)]; GOTO ET=2

LOC NXT • RESTART FROM POWER FAIL (VECTOR LOC=24)
 / GET TO RS=1 MYSTERIOUSLY AS POWER COMES UP (NXT CHIPS, F092 AND F103 SHOWN ON THE CONP PRINT,
 / ARE DISABLED FORCING THE MICROPROGRAM TO RS=1 IN LOC 0;
 208 241 RS=1 B=A[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
367 074 RS=2 PC=UNIBUS DATA
074 351 RS=3 BA=K(24)+2( DAT) CKOFF
391 385 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
048 385 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 D1=4 VIA BUT NONMOD (TRUE)
/ GET TO B2=2C FROM DO=10 VIA BUT NONMOD (TRUE)
/ GET TO B2=2D FROM P=5 VIA BUT IR 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
385 048 B2=2 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 RG=1
/ IF INTERNAL LINE CLOCK GOTO LC=1
/ IF BR7 GOTO RG=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 • RESET
/ GET TO RST=1 FROM F=5 VIA BUT IR DECODE (INST=RESET)
397 305 RST=1 BUT INIT; CKOFF; GOTO B2=2 (BUT SERVICE)

) LOC NXT • DOUBLE BUS ERROR, GOTO HALT
110 041 DBE=1 NOP; GOTO H=1

) LOC NXT • UART XMIT (VECTOR LOC 64)
000 245 URTX B=K(64); GOTO ET=2

) LOC NXT • UART RECEIVE (VECTOR LOC 68)
064 245 URTR B=K(68); GOTO ET=2

) LOC NXT • LINE CLOCK (VECTOR LOC 100)
042 245 LC=1 B=K(100); GOTO ET=2
)

ERT1A NOT EXPLICITLY SHOWN IN FLOW
0803A NOT EXPLICITLY SHOWN IN FLOW
A147 NOT EXPLICITLY SHOWN IN FLOW
E1202 NOT EXPLICITLY SHOWN IN FLOW
E1203 NOT EXPLICITLY SHOWN IN FLOW
E1205 NOT EXPLICITLY SHOWN IN FLOW
E1206 NOT EXPLICITLY SHOWN IN FLOW
E1207 NOT EXPLICITLY SHOWN IN FLOW
ERT1B NOT EXPLICITLY SHOWN IN FLOW
0202A NOT EXPLICITLY SHOWN IN FLOW
0202B NOT EXPLICITLY SHOWN IN FLOW
0202C NOT EXPLICITLY SHOWN IN FLOW
0202D NOT EXPLICITLY SHOWN IN FLOW

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	333	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
B2-2B	335	NO	SP	AL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	ROM	R0	REA	NON	BG-1
B2-2C	343	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	045	NO	NUL	AL	OFF	H	BRG	L	CON	14	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
CC-1	112	NO	PSW	ABRAR	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	BG-1
CCM-1	151	NO	NUL	AAMDB	OFF	H	BRG	L	CON	360	OFF	OFF	OFF	H	ROM	R0	WRI	NON	CCM-2
CCM-2	350	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	313	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	I	CD1-3
CD1-3	374	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	0	CD1-5
CD1-5	372	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	H-2
CD2-1	312	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	ROM	R17	REA	NON	CD2-2
CD2-2	337	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	307	NO	SP	AL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	I	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	371	NO	SP	RL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	R17	WRI	NON	CE1-1
CL-1	311	NO	NUL	ABAR	OFF	L	BRG	H	CON	207	ON	OFF	OFF	H	ROM	R0	WRI	I	CL-2
CL-2	375	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	CL-3
CL-3	367	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	322	NO	SP	AL	OFF	L	BRG	L	NON	NON	OFF	OFF	OFF	H	ROM	R17	REA	NON	CS-3
CS-3	321	NO	SP	RL	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	NHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	DO-4
DO-3A	155	NO	SP	ABAR	OFF	H	BRG	L	NHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	DO-4
DO-4	332	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	JOY	NON	ON	OFF	OFF	H	TRD	R0	REA	TP	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	NHD	NON	OFF	ON	OFF	H	ROM	R10	REA	NON	D1-5

NAME	LOC	ABT	ARG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CRD	CRJ	FSH	PSW	SAM	SPA	SPF	THS	NXT
D1-5	334	YES	SP	AL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	ROM	RO	REA	N	D1-6
D1-6	065	NO	SP	BL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	D2-2
D2-1	105	YES	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	TRD	RO	REA	TP	D2-2
D2-2	331	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	TRD	RO	REA	NON	D2-3
D2-3	341	NO	SP	BL	OFF	H	BRG	H	JOJ	NON	ON	OFF	OFF	H	TRD	RO	WRI	NON	D1-2
D3-1	107	NO	SP	AL	OFF	L	BRG	H	NON	NON	OFF	OFF	OFF	H	TRD	RO	REA	I	D3-2
D3-2	160	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	TRD	RO	REA	NON	D3-3
D3-3	070	NO	SP	BL	OFF	H	BRG	H	NON	NON	ON	OFF	OFF	H	TRD	RO	WRI	NON	D3-4
D3-4	071	NO	NUL	AL	OFF	H	BRG	L	NON	NON	OFF	OFF	OFF	H	BAR	RO	REA	NON	D3-5
D3-5	072	YES	SP	BL	OFF	L	BRG	H	JOJ	NON	ON	OFF	OFF	H	ROM	RO	REA	IP	D1-2
D4-1	111	YES	SP	A+B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	TRD	RO	REA	IP	D2-3
D5-1	113	NO	SP	A-B-1	OFF	L	+1	L	END	NON	OFF	OFF	OFF	H	TRD	RO	REA	I	D3-3
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	RO	REA	NON	D6-5
D6-5	300	YES	SP	A+B	OFF	L	BRG	L	JOJ	NON	ON	OFF	OFF	H	TRD	RO	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	RO	REA	NON	D7-5
D7-5	106	NO	SP	A+B	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	TRD	RO	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	SP	BL	OFF	H	BRG	H	SRV	NON	OFF	OFF	OFF	H	TRD	RO	WRI	NON	BG-1
DBE-1	110	NO	SP	AL	OFF	H	BRG	H	NON	NON	OFF	OFF	OFF	H	ROM	RO	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	RO	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	RO	REA	NON	DO-12
DO-12	135	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-13
DO-13	136	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-14
DO-14	137	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-15
DO-15	140	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-16
DO-16	141	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-17
DO-17	142	NO	SP	AL	OFF	H	BRG	SL	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-18
DO-18	143	YES	SP	AL	OFF	H	BRG	SL	NON	NON	ON	OFF	OFF	H	ROM	RO	REA	N	D1-6
DO-2	123	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-3
DO-3	124	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-4
DO-4	125	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-5
DO-5	126	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-6
DO-6	127	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-7
DO-7	130	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	DO-8
DO-8	131	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	OFF	H	ROM	RO	REA	NON	DO-9

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NAME	LOC	ABT	ALG	AU	AUX	PAR	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	HRG	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
ERT1A	046	NO	NUL	AL	OFF	H	HRG	L	CON	4	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET2-2
ERT1R	153	NO	NUL	AL	OFF	H	HRG	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	HRG	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	T	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	HRG	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	IRD	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	325	NO	SP	AL	OFF	H	BRG	H	SYS	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-H	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	HRG	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

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NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRC	BUT	CON	CKO	CR1	FSH	PSW	SAM	SPA	SPF	TNS	NXT
MB-2	152	NO	SP	BL	OFF	H	SEY	H	SRV	NON	OFF	OFF	OFF	H	IRD	R0	WRI	NON	RG-1
PF-1	243	NO	NUL	AL	OFF	L	ERG	L	CON	24	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
R1-1	205	NO	SP	AL	OFF	L	ERG	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	ERG	H	NON	NON	OFF	OFF	OFF	H	ROM	R6	WRI	NON	R1-4
R1-4	223	NO	SP	AL	OFF	L	ERG	L	NON	NON	OFF	OFF	OFF	H	IRD	R0	REA	NON	R1-5
R1-5	224	NO	SP	BL	OFF	H	ERG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	R1-6
R1-6	225	NO	NUL	AL	OFF	H	ERG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	DB-4
R2-1	227	NO	SP	AL	OFF	L	ERG	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	ERG	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	NON	R2-4
R2-4	232	NO	SP	AL	OFF	L	ERG	H	NON	NON	OFF	OFF	OFF	H	ROM	R7	WRI	NON	R2-6
R2-6	234	NO	SP	AL	OFF	L	ERG	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	ERG	H	NON	NON	ON	OFF	OFF	H	ROM	R6	WRI	NON	R2-9
R2-9	237	NO	NUL	AL	OFF	H	ERG	H	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	R2-2
RS-1	220	NO	NUL	AL	OFF	L	ERG	H	CON	24	OFF	OFF	OFF	H	ROM	R0	WRI	I	RS-1A
RS-1A	241	NO	SP	AL	OFF	L	ERG	H	NON	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	RS-2
RS-2	247	NO	SP	AL	OFF	H	ERG	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	ERG	H	NON	NON	OFF	OFF	OFF	L	ROM	R0	REA	NON	R2-2
RST-1	357	NO	SP	AL	OFF	H	ERG	H	INI	NON	ON	OFF	OFF	H	ROM	R0	REA	NON	R2-2
RT-1	201	NO	NUL	AL	OFF	H	ERG	L	CON	10	OFF	OFF	OFF	H	ROM	R0	WRI	NON	ET-2
S0-1	201	NO	SP	AL	OFF	H	ERG	L	BYT	NON	OFF	OFF	OFF	H	IRS	R0	REA	NON	S0-2
S0-2	207	NO	SP	BL	OFF	H	ERG	H	DST	NON	OFF	OFF	OFF	H	ROM	R10	WRI	NON	RT-1
S1-1	203	YES	SP	AL	OFF	L	ERG	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S1-2
S1-2	244	NO	NUL	AL	OFF	H	ERG	L	BYT	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S0-2
S2-1	205	YES	SP	AL	OFF	L	ERG	H	NON	NON	OFF	OFF	OFF	H	IRS	R0	REA	I	S2-2
S2-2	201	NO	SP	A+B	OFF	H	+1	L	NON	NON	OFF	ON	OFF	H	IRS	R0	REA	NON	S2-3
S2-3	214	NO	SP	BL	OFF	H	ERG	H	NON	NON	ON	OFF	OFF	H	IRS	R0	WRI	NON	S1-2
S3-1	207	NO	SP	AL	OFF	L	ERG	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	ERG	H	NON	NON	ON	OFF	OFF	H	IRS	R0	WRI	NON	S3-4
S3-4	134	NO	NUL	AL	OFF	H	ERG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S3-5
S3-5	274	YES	SP	BL	OFF	L	ERG	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	ERG	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	ERG	H	NON	NON	ON	OFF	OFF	H	ROM	R7	WRI	NON	S6-4
S6-4	227	NO	NUL	AL	OFF	H	ERG	L	NON	NON	OFF	OFF	OFF	H	BAR	R0	REA	NON	S6-5
S6-5	237	YES	SP	A+B	OFF	L	ERG	H	NON	NON	ON	OFF	OFF	H	IRS	R0	REA	I	S1-2
S7-1	217	NO	SP	AL	OFF	L	ERG	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

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NAME	LOC	ABT	ALG	ALU	AUX	BAR	BLG	BRG	BUT	CON	CKD	CRI	F8H	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	BAR	RO	REA	NON	S7-5
S7-5	035	NO	SP	F-R	OFF	L	BRG	H	NON	NON	ON	OFF	OFF	H	IRS	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	DST	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	346	NO	SP	AL	OFF	H	BRG	SR	NON	NON	OFF	OFF	ON	H	ROM	RO	REA	NON	SB0-3
SB0-3	324	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	AOR8	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	DB0-2
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

N A M	L O C	N X T	A L U	C F A R S U I H X	P S S P I W I 3 P	S S S B M P M B O 0 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	
A145	145	0000	0000	0000	0 0 1 0	0 0 0 0	1 0 1 0	0 1 0 0	0 0 0 0	0 0 0 0	0 1 0 1
B=1	015	1001	1000	1100	0 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 1	1 1 1 1
B=2	147	1001	1001	0110	0 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
B=3	146	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
B2=2	305	1101	1111	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 0 0
B2=2A	333	1101	1111	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 0 0
B2=2B	335	1101	1111	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 0 0
B2=2C	343	1101	1111	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 0 0
B2=2D	019	1101	1111	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 0 0
BG=1	040	0011	1010	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	0 0 0 1
BT=1	045	0101	1010	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 0	1 1 1 1	1 0 1 1	1 1 0 1
CC=1	112	1101	1111	0010	1 0 1 1	0 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	0 0 0 0	1 1 0 0
CCN=1	151	0001	0111	0001	1 0 1 1	1 0 0 1	1 1 1 1	1 1 0 0	1 1 1 1	1 0 1 1	1 1 0 1
CCN=2	350	1011	0101	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 0 0 1
CCS=1	316	0100	0001	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
CCS=2	276	0100	0111	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	0 1 1 0
CCS=3	272	1100	1101	0011	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0	0 0 0 0
CD1=1	313	0011	1100	0000	1 0 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1	0 1 1 0
CD=2	303	0000	0011	1111	1 0 1 1	1 0 0 1	1 0 1 1	0 1 0 0	0 1 1 0	1 0 0 0	1 1 0 1
CD1=3	374	0011	0011	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
CD1=4	314	0000	0101	0000	1 0 1 1	1 1 1 1	1 1 1 1	0 1 1 1	0 1 0 1	1 1 0 0	1 1 1 1
CD1=5	372	0011	1101	0101	1 0 1 1	1 0 0 1	0 0 0 1	1 1 1 0	1 1 1 1	1 1 0 0	1 1 1 1
CD2=1	312	0010	0000	0110	0 1 1 1	1 1 1 1	1 1 1 0	1 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
CD2=2	337	0011	0100	0101	1 0 1 1	1 1 1 1	1 1 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 1 1
CE1=1	317	0011	1000	0000	1 0 1 1	1 1 1 1	1 1 1 1	0 1 1 1	1 1 1 1	1 1 1 1	0 1 1 0
CE1=2	307	0010	1001	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	0 1 1 0	1 1 0 0	1 1 1 1
CE1=3	326	0011	1101	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
CE2=1	315	0000	0110	0110	0 1 1 1	1 1 1 1	1 1 1 0	0 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
CE2=2	371	0011	0000	0101	1 0 1 1	1 1 1 1	1 1 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 1 1
CL=1	311	0000	0010	1111	1 0 1 1	1 0 0 1	1 0 1 1	0 1 0 0	0 1 1 0	1 0 0 0	1 1 0 1
CL=2	375	0000	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	1 1 1 1
CL=3	367	0011	1101	0101	1 0 1 1	1 1 1 1	1 1 1 1	1 1 0 1	1 1 1 1	1 1 0 0	1 1 1 1
CS=1	100	0010	1101	0011	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 0 0	0 0 0 0
CS=2	322	0010	1110	0000	1 0 1 1	1 1 1 1	1 1 1 1	0 1 1 1	1 1 1 1	1 1 1 1	1 1 1 1
CS=3	321	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
DO=1	101	1001	0011	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	0 1 0 1
DO=2	157	1001	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 0 1 0
DO=3	162	0010	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	0 0 1 0
DO=3A	155	0010	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	0 0 1 0
DO=4	332	1101	1111	0101	1 0 1 1	1 0 0 1	0 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 0 0

EQUIPMENT CORPORATION

N A 4	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 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	161	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	134	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	079	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	104	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	320	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	156	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	342	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 W 1 3 F	S S S B M P M B 0 0 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	1010	0000	1 0 1 1	1 0 0 1	1 1 1 0	0 0 0 1	1 1 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	1 1 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	1 1 1 0	1111
DO-4	123	1010	1001	0000	1 0 0 1	1 0 0 1	1 1 1 0	1 1 1 1	1 1 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	1 1 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	1 1 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	1 1 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	1 1 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	1 1 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	1 1 1 1	1101
ERT1A	046	1111	1100	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	1 1 1 1	1101
ERT1B	153	0101	1010	0000	1 0 1 1	1 1 0 1	1 0 1 1	1 1 0 1	1 1 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	1 1 1 1	1101
ET-10	254	0101	0010	0000	1 0 1 1	1 1 1 1	1 0 1 1	0 1 1 0	0 1 1 0	0000
ET-11	255	0101	0001	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	1 1 1 1	1111
ET-12	256	0101	0000	0110	0 1 1 1	1 1 1 1	1 0 1 0	0 1 1 0	0 1 1 0	1111
ET-13	257	0011	1010	0000	1 0 1 1	0 0 0 1	1 0 1 1	1 1 1 0	1 1 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	1 1 1 1	1111
ET-3	246	0101	1000	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	1 1 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	1 1 1 1	0000
ET-7	251	0101	0101	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	1 1 1 1	0100
ET-8	252	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	253	0101	0011	0000	1 0 1 1	1 1 0 1	1 1 1 1	1 1 1 1	1 1 1 1	1111
ET2-2	003	1111	1011	0101	1 0 1 1	1 1 1 1	1 0 1 1	1 1 0 0	1 1 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	1 1 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	1 1 1 1	1111
ET2-7	051	0101	0101	1001	0 0 1 1	1 1 0 1	1 0 1 0	0 1 1 1	1 1 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	1 1 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	1 1 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	1 1 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	1 1 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	1 1 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	1 1 1 1	0110
INT-1	325	0101	1001	0000	1 0 1 1	1 1 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1000
IT-1	273	0101	1010	0000	1 0 1 1	1 0 0 1	1 0 1 1	1 1 1 1	1 1 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	1 1 1 1	1111
J1-2	260	1101	1111	0101	1 0 1 1	1 1 0 1	1 1 1 1	1 1 0 1	1 1 1 1	1100

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 1 3 P	S S S B M P M B 0 0 1 T	R 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	0110	1010	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
S0-1	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
S0-2	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

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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 S S B M P M B 0 0 1 T	R B 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	
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	006	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	330	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	346	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	324	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	340	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

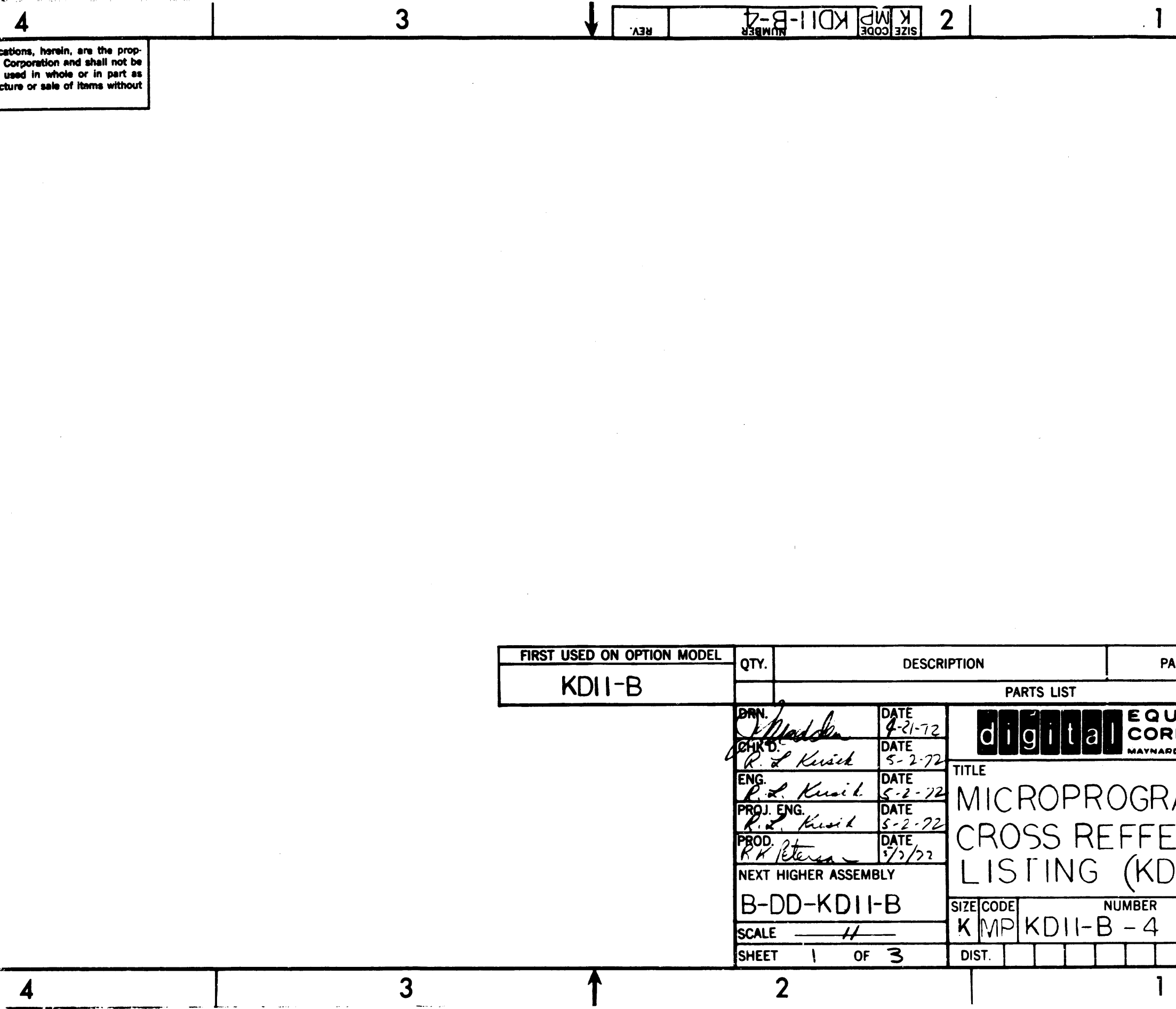
N A M	L O C	N X T	A L U	C F A R S U I N X	P S S D S P P I W I 3 P	S S S B M P M B 0 0 1 T	B B S S A T P P R P P 2	C A T K R N O T S	A L G	B R G	B U T
S80=5	361	1101	0111	0000	1 0 0 1	1 0 0	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 0	1 1 1 1
S80=6	050	1110	1111	0000	1 0 0 1	1 0 0 1	1 0 1 1	1 1 1 0	1 1 1 1	1 1 1 0	1 1 1 1
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	1 1 1 0	1 1 1 1
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	1 1 1 0	1 1 1 1
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	0 0 0 0	1 1 0 0
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	1 0 1 1	1 1 0 1
U1=1	352	1000	1101	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
U2=1	353	1000	1100	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
U3=1	354	1000	1011	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
U4=1	355	1000	1010	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
U5=1	373	1000	1100	0101	1 0 1 0	1 0 1 1	1 0 1 1	1 1 0 0	1 1 1 1	1 1 0 0	1 1 1 1
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	1 0 1 1	1 1 0 1
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	1 0 1 1	1 1 0 1
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	1 1 0 0	1 1 0 0

EQUIPMENT CORPORATION

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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. K. Peterson</i>	DATE 5/2/72			
NEXT HIGHER ASSEMBLY		TITLE		
B-DD-KDII-B		MICROPROGRAM CROSS REFERENCE LISTING (KDII-B)		
SCALE <i>H</i>	SHEET 1 OF 3	SIZE CODE KMP	NUMBER KDII-B-4	REV.
DIST.				



000	RG-1	001	RT-1	002	****	003	ETG-2	004	ETG-3	005	R1-1	006	801-0	007	S0-2
010	ERT-1	021	T-1	022	S0-2	033	S0-5	034	S2-3	035	S0-1	036	83-2	017	S0-3
020	S0-7	031	S0-7	032	S7-2	033	S7-5	034	S2-6	035	S0-2	036	86-1	027	S0-4
030	S6-5	041	M-1	042	LG-1	043	PF-1	044	****	045	BT-1	046	ERT1A	037	ETG-6
040	RG-1	051	ETG-7	052	S0-8	053	F-2	054	****	055	****	056	06-4	047	S0E-1
050	S0-6	061	F-5	062	P-1	063	M-1	064	URTR	065	D1-6	066	****	047	S0E-1
060	URTX	071	D3-4	072	D3-5	073	****	074	RG-3	075	D6-2	076	****	067	S0-1
070	D3-3	081	D3-1	082	P-1	083	M-1	084	URTR	085	D1-6	086	****	077	D6-3
080	C8-1	091	D4-1	092	D3-5	093	D1-1	094	D7-3	095	D8-1	096	D7-5	077	D6-3
090	S0E-1	101	D4-1	102	D3-5	103	D1-1	104	D7-3	105	D8-1	106	D7-5	087	D3-1
100	C8-1	111	D4-1	112	CG-1	113	D3-1	114	****	115	D6-1	116	S0-1	117	D7-1
110	S0E-1	121	****	122	CG-1	123	D3-1	124	CG-1	125	D0-2	126	D0-5	127	D0-6
120	****	131	D0-6	132	D0-9	133	D0-2	134	D0-3	135	D0-12	136	D0-13	137	D0-14
130	D0-7	141	D0-16	142	D0-17	143	D0-18	144	S01-5	145	A1-5	146	S-3	147	R-2
140	D0-15	151	CGM-1	152	MB-2	153	ERT1B	154	MB-8	155	D8-3A	156	D8-3	157	D8-2
150	****	161	****	162	D8-3	163	D1-4	164	D8-2	165	D0-15	166	D8-1	167	S0E-1
160	D3-2	171	****	172	D8-3	173	S01-3	174	S01-4	175	****	176	S01-6	177	S01-7
170	****	181	****	182	****	183	S1-1	184	J1-1	185	S2-1	186	J2-4	177	S01-7
180	D1-2	191	S0-1	192	****	193	S1-1	194	J1-1	195	S2-1	196	J2-4	178	S01-7
190	****	201	S4-1	202	****	203	S1-1	204	J1-1	205	S2-1	206	J2-4	179	S01-7
200	D1-2	211	S4-1	212	J2-1	213	S9-1	214	J2-3	215	S0-1	216	J2-5	217	S7-1
210	D1-3	221	R1-2	222	R1-3	223	R1-4	224	R1-8	225	R1-6	226	ET-6	217	S7-1
220	S0E-3	231	R2-3	232	R2-4	233	****	234	R2-6	235	R2-7	236	R2-8	218	R2-9
230	R2-2	241	R0-1A	242	****	243	****	244	91-2	245	ET-2	246	ET-3	219	ET-9
240	DE-1	251	ET-7	252	ET-8	253	ET-9	254	ET-10	255	ET-11	256	ET-12	220	ET-9
250	DE-1	261	J2-1A	262	J2-2	263	J2-6	264	J2-7	265	J2-8	266	J2-9	221	ET-13
260	J1-2	271	****	272	CG-3	273	IT-1	274	S3-7	275	J2-7	276	CG-2	222	ET-14
270	D0-1	281	S2-2	282	MB-2	283	CG1-2	284	CG1-3	285	CG1-4	286	CG1-5	223	CG1-6
280	D0-5	291	S2-2	292	MB-2	293	CG1-2	294	CG1-3	295	CG1-4	296	CG1-5	224	CG1-6
290	D0-5	301	S2-2	302	MB-2	303	CG1-2	304	CG1-3	305	CG1-4	306	CG1-5	225	CG1-6
300	D0-5	311	CG1-1	312	CG1-2	313	CG1-3	314	CG1-4	315	CG1-5	316	CG1-6	226	CG1-7
310	D7-4	321	CG1-3	322	CG1-4	323	CG1-5	324	CG1-6	325	CG1-7	326	CG1-8	227	CG1-9
320	D7-4	331	D2-2	332	D2-3	333	D2-4	334	D2-5	335	D2-6	336	D2-7	228	CG1-10
330	S0E-8	341	D2-3	342	D0-11	343	U2-1	344	U3-1	345	U4-1	346	U5-1	229	CG1-11
340	S0-4	351	R8-4	352	U1-1	353	U2-1	354	U3-1	355	U4-1	356	U5-1	230	CG1-12
350	CGM-2	361	S0-5	362	****	363	****	364	P-4	365	F-2	366	****	231	CG1-13
360	****	371	CGE-2	372	CG1-9	373	U5-1	374	OD1-3	375	CL-2	376	****	232	CG1-14
370	****			372	CG1-9	373	U5-1	374	OD1-3	375	CL-2	376	****	233	CG1-15

KD11-B MICROPROGRAM CROSS REFERENCE LISTING REV *

A1-5	145	D6-1	115	F-4	364	S3-1	213
B-1	015	D6-2	075	F-5	061	S6-1	215
B-2	147	D6-3	077	H-1	041	S6-2	025
B-3	146	D6-4	057	H-2	022	S6-3	026
B-5	305	D6-5	060	INT-1	325	S6-4	027
B2-2A	333	D7-1	117	IT-1	273	S6-5	030
B2-2B	335	D7-2	310	J1-1	284	S7-1	217
B2-2C	335	D7-3	104	J1-2	260	S7-2	032
B2-2D	013	D7-4	320	J2-1	232	S7-3	033
B5-1	045	D7-5	106	J2-1A	261	S7-4	034
CC-1	112	D8-1	156	J2-2	262	S7-5	035
CGM-1	131	D8-2	164	J2-3	214	S8-1-1	166
CGM-2	330	D8-3	304	J2-4	206	S8-1-2	172
CGM-3	336	D8E-1	110	J2-5	216	S8-1-3	173
CGM-4	336	DE-1	250	J2-6	263	S8-1-4	174
CGM-5	272	DC-1	270	J2-7	264	S8-1-5	144
CO1-1	313	DC-10	165	J2-8	265	S8-1-6	176
CO1-2	303	DC-11	342	L-1	042	S8-1-7	177
CO1-3	374	DC-12	155	MB-0	154	S8-1-8	006
CO1-4	314	DC-13	136	MB-1	240	S8-1-9	167
CO1-5	372	DC-14	137	MB-2	192	S8-2-1	167
CO2-1	332	DC-15	140	PF-1	043	S8-2-2	012
CO2-2	337	DC-16	141	R1-1	005	S8-2-3	220
CE1-1	317	DC-17	142	R1-2	221	S8-2-4	023
CE1-2	307	DC-18	143	R1-3	222	S8-2-5	023
CE1-3	326	DC-19	123	R1-4	223	S8-2-6	024
CE1-4	315	DC-20	124	R1-5	224	S8-2-7	031
CE2-1	315	DC-4	125	R1-6	225	S8-2-8	030
CE2-2	371	DC-5	126	R2-1	227	S8E-1	047
CL-1	311	DC-6	127	R2-2	230	S8O-1	067
CL-2	375	DC-7	130	R2-3	231	S8O-2	346
CL-3	367	DC-8	131	R2-4	232	S8O-3	324
CL-4	100	DC-9	132	R2-6	234	S8O-4	340
CG1-1	322	ERT-1	010	R2-7	235	S8O-5	361
CG1-2	321	ERT1A	046	R2-8	236	S8O-6	050
CG1-3	321	ERT1B	153	R2-9	237	S8O-7	020
CG1-4	157	ET-1	011	RS-1	000	S8O-8	052
CG1-5	162	ET-10	254	RS-1A	241	SC-1	116
CG1-6	155	ET-11	255	RS-2	347	T-1	021
CG1-7	332	ET-12	256	RS-3	074	U1-1	352
D1-1	103	ET-13	257	RS-4	351	U2-1	353
D1-2	200	ET-2	245	RS-5	357	U3-1	354
D1-3	210	ET-3	246	RT-1	001	U4-1	355
D1-4	163	ET-5	247	S0-1	201	URTR	064
D1-5	334	ET-6	226	S0-2	007	URT-1	060
D1-6	065	ET-7	251	S1-1	203	H-1	063
D2-1	105	ET-8	252	S1-2	244	000	000
D2-2	331	ET-9	253	S2-1	205	000	000
D2-3	341	ET-2	003	S2-2	301	000	000
D3-1	107	ET2-3	004	S2-3	014	000	000
D3-2	160	ET2-5	036	S3-1	207	000	000
D3-3	070	ET2-6	037	S3-2	016	000	000
D3-4	071	ET2-7	051	S3-3	017	000	000
D3-5	072	F-1	062	S3-4	134	000	000
D4-1	111	F-2	053	S3-5	274	000	000
D5-1	113	F-3	365	S4-1	211	000	000

PAGE REVISION CONTROL SHEET

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FIRST USED ON OPTION/MODEL
KL11-B



TITLE
DATA PATHS

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

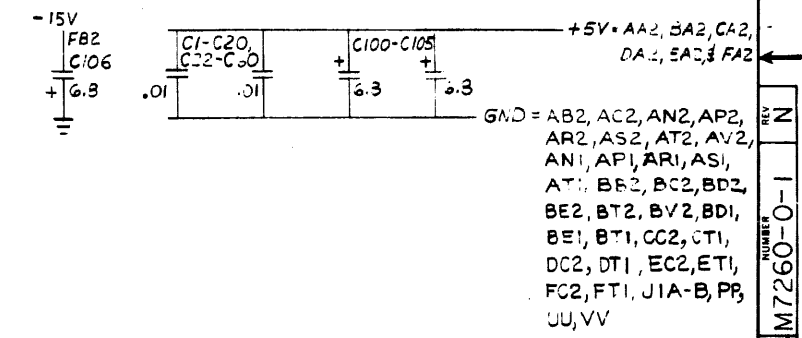
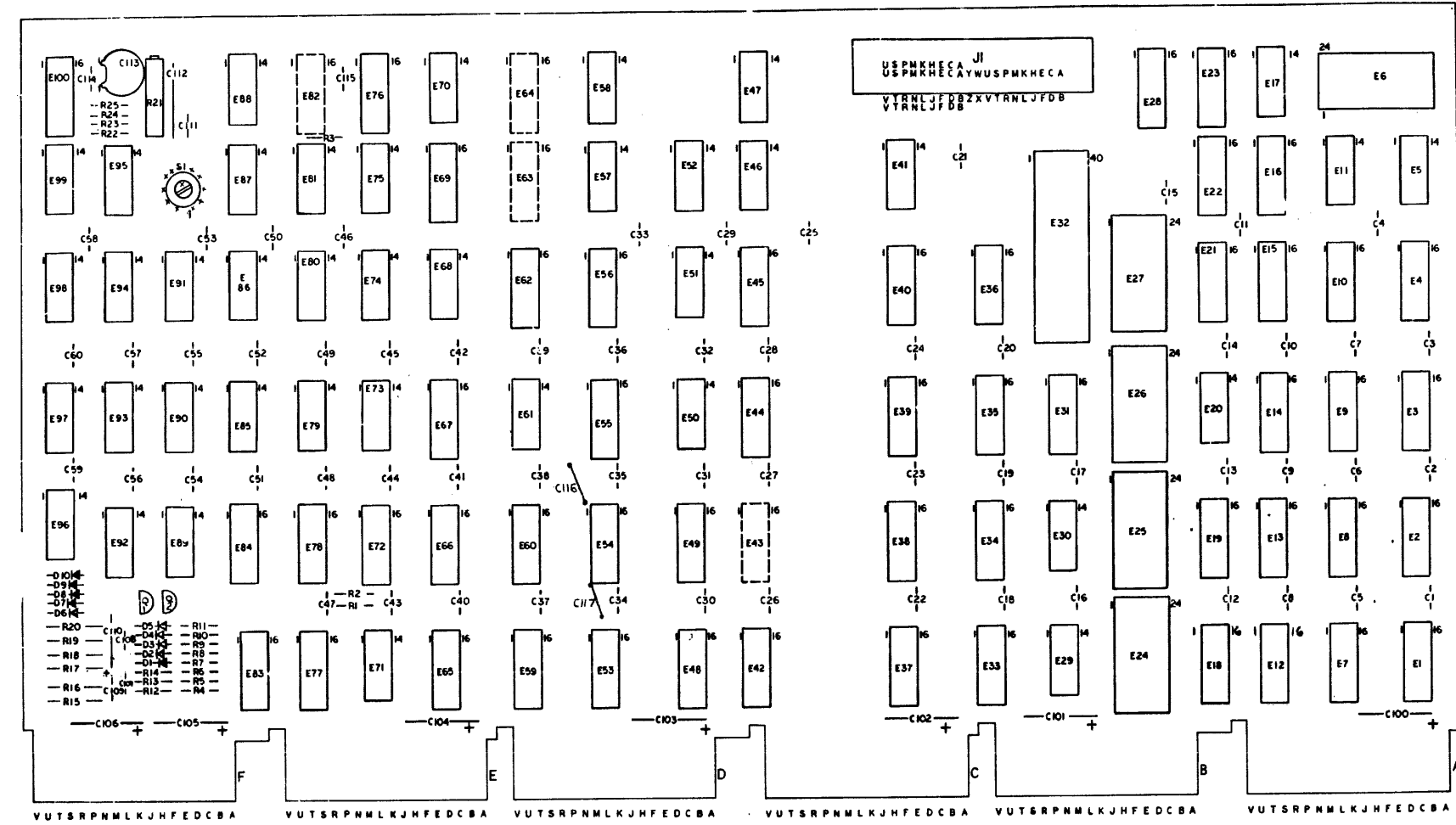
NEXT HIGHER ASSY.
B-DD-KL11-B
SCALE *1-1*
SHEET *1* OF *12*

SIZE	CODE	NUMBER	REV.
B	DS	M7260-0-1	P

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NOTES:



DEC 74174	8	16
DEC 7475	8	16
DEC 7499	8	16
DEC 1808	3	1
DEC 74182	8	16
DEC 74181	12	24
DEC 7457	8	16
DEC 745158	8	16
DEC 7453	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				
CHK	CHANGE NO.	REV	DATE	BY
	REVISIONS			
DEC NO.		EIA NO.		DEC NO.
EIA NO.		DEC NO.		EIA NO.
SEMICONDUCTOR CONVERSION CHART				
SCALE		NEXT HIGHER ASSY		B-DD-KD11-B
SHEET 2 OF		SIZE CODE		DCS M7260-0-1
DST.		NUMBER		REV. N

SHIPPING 40322 1699

REV N
NUMBER DCS M7260-0-1

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NOTES:

Table with columns: REF, REF, REF, REF, QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. Rows include: ETCH CIRCUIT BOARD, X-Y COORDINATE HOLE/LAYOUT, DATA PATH ASSY HOLE/LAYOUT, MODULE ECO HISTORY, CAP .01 MFD, 100V, 20% DISC, CAP .47 MFD, 35V, 10%, CAP 1000.0 MMF, 100V 5%, CAP 4700 MMF, 100V, 5%, CAP 39 MFD, 10V 10%, CAP 6.8 MFD, 35V, 10%, CAP 120.0 MMF, 100V, 5%, DIODE D664, IC DEC 8038, IC DEC 7430, IC DEC 74150, IC DEC 8266, IC DEC 74194, IC DEC 74153, IC DEC 7402, IC DEC 74S158, IC DEC 7400, IC DEC 74157, IC DEC 74181, IC DEC 7437, IC DEC 74182, IC DEC 1808 UART, IC DEC 7489, IC DEC 74H01-1, IC RES NETWORK, IC DEC 7408, IC DEC 74175, IC DEC 74174, IC ROM (CONSTANTS), IC DEC 7474, IC ROM (DOP AUX), IC ROM (SOP AUX #1), IC DEC 7404, IC ROM (DOP 1R), IC DEC 7410, IC ROM (CC OR OP), IC ROM (SOP AUX #2), IC DEC 7486, IC ROM (C + V - BIT), IC ROM (BRANCH), IC DE: 9602, IC ROM (ENB UNARY), IC ROM (NOT DOP), IC ROM (ODD BYTE EQ 0), IC DEC 74197, IC DEC 7413, IC DEC 7473.

Table with columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO. Rows include: CONNECTOR, BERG, RES 1.5K 1/4W 5%, RES 470 1/4W 5%, RES 12K 1/2W 5%, RES 1.5K 1/2W 5%, RES 10 1/4W 5%, RES 30K 1/4W 5%, RES 150 1/4W 5%, RES 68 1/2W 10%, RES 2K 1/4W 5%, RES 20K 3/4W 10% POT, RES 1K 1/4W 5%, RES 750 1/4W 5%, RES 82 1/4W 5%, RES 560 1/2W 5%, RES 10K 1/4W 5%, TRANS DEC 65340 PNP, EYELETS, MODULE HANDLE, SWITCH, ROT 1 POLE 10 POSITION DRY, HEX NUT NYLON, CAP 120MMF 100V 5%.

Summary table with columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO.

Summary table with columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO.

Summary table with columns: QTY, REF DESIGNATION, DESCRIPTION, PART NO., ITEM NO.

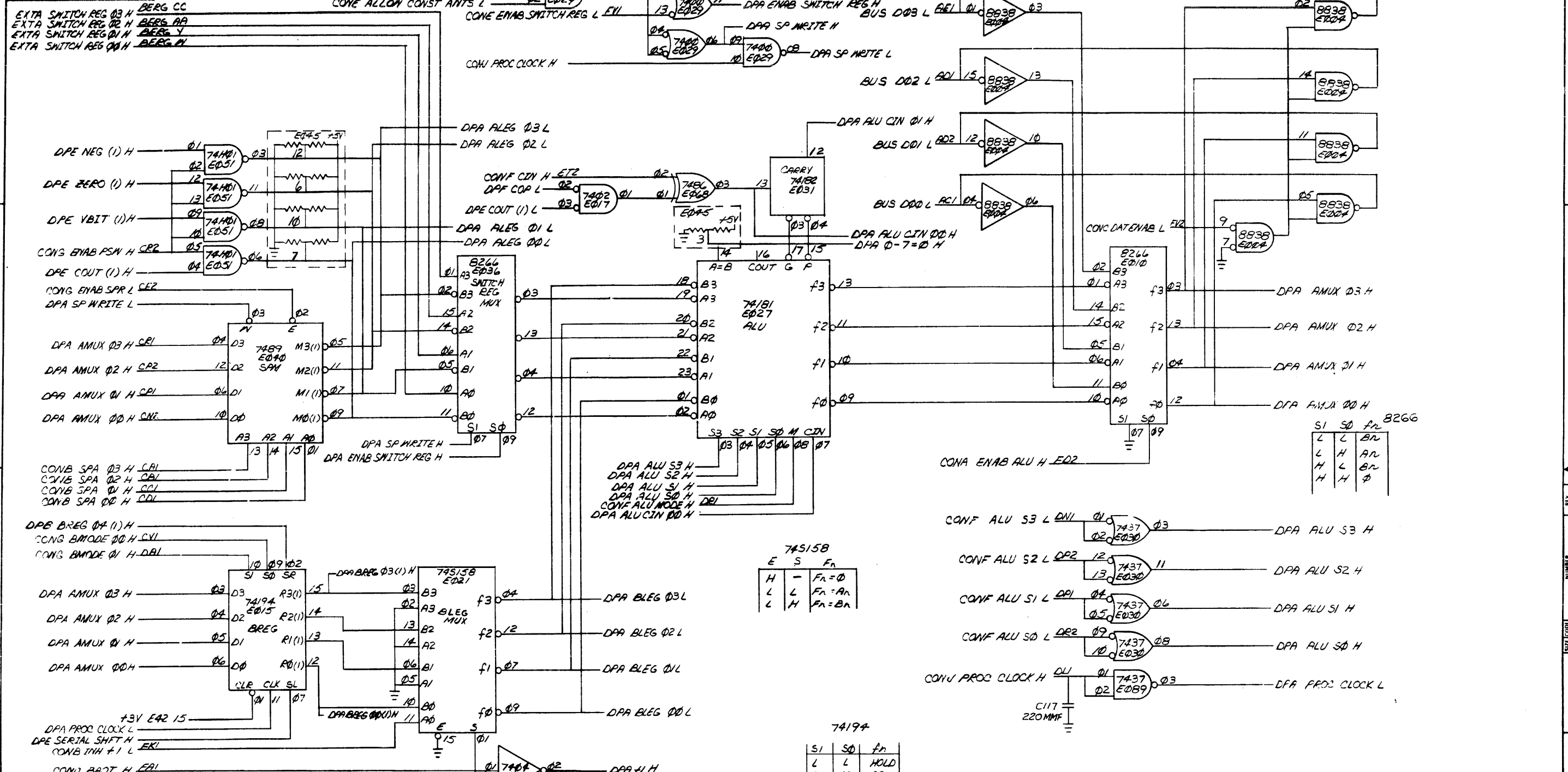
D, C, B, A

D, C, B, A

IC PIN LOCATIONS table with columns: IC TYPE, GND, +5V. Rows include: DE 9602 (8, 16), ROM 23AXXA1 (8, 16), ROM 23AXXA2 (8, 16), DEC 7473 (4, 11), DEC 9602 (8, 6), IC TYPE, GND, +5V. Includes note: GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.

Parts List and Conversion Chart section. Includes: PARTS LIST, SEMICONDUCTOR CONVERSION CHART, DRN, ENGR, DATE, TITLE, DIGITAL EQUIPMENT CORPORATION, DATA PATHS, B-DD-KD11-B, DEC NO., EIA NO., SCALE, SHEET 3 OF.

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74181

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

8266

S ₁	S ₀	F _n
L	L	B _n
L	H	A _n
H	L	B _n
H	H	0

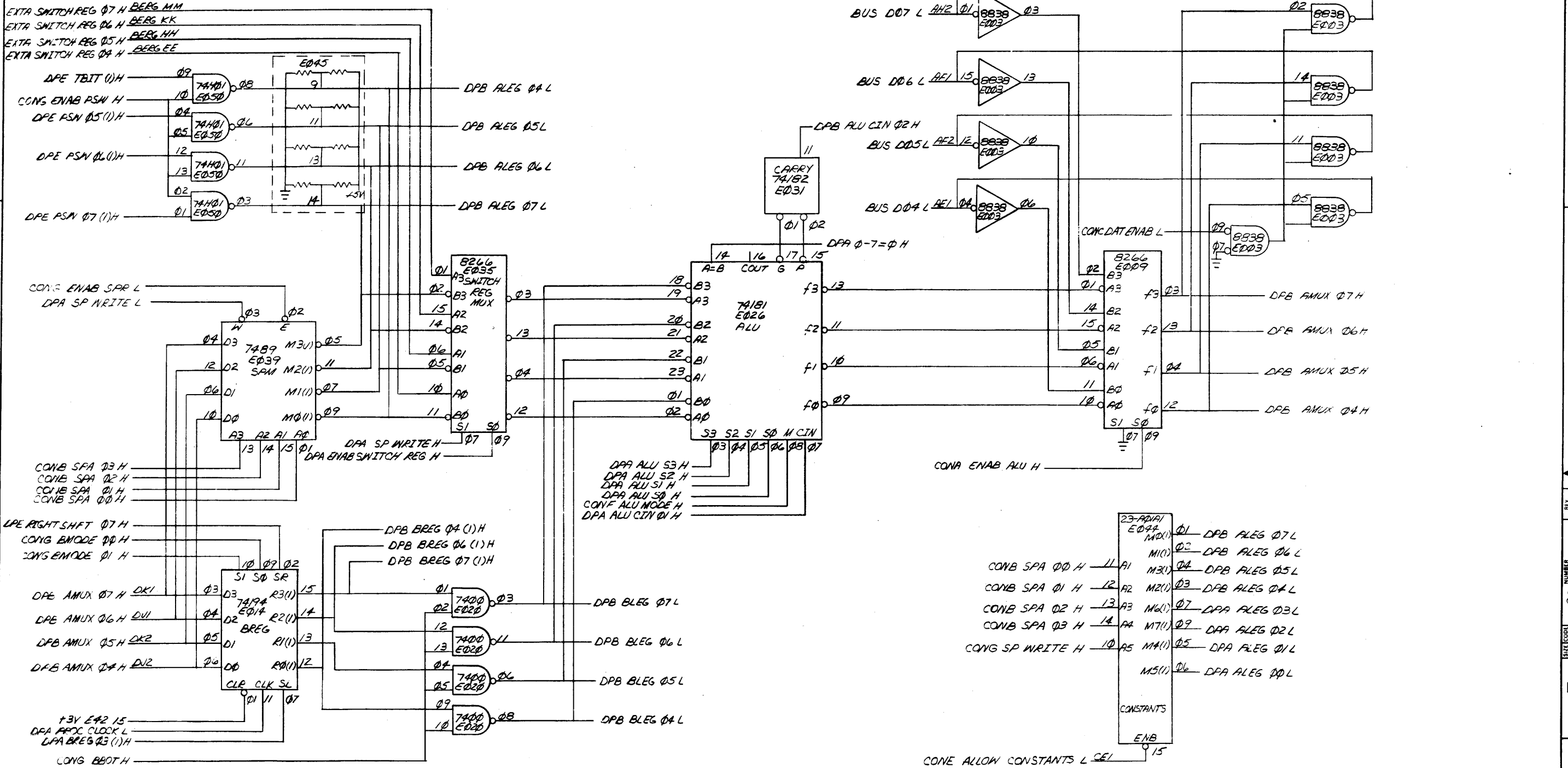
DATA PATH <G3:00>

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX - .006	± 0° 30'	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS		
.XX - .02		TITLE		
X - .1		DATA PATH		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY	(DPA)		
FINISH	B-DD-KDII-B	SIZE CODE	NUMBER	REV.
		DCS	M7260-0-1	N
	SCALE	SHEET 4 OF		
		DIST.		

REVISIONS
CHANGE NO.
DATE

REV. N
NUMBER
DCS M7260-0-1
REV. B

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- 23-AD1A1 E044 M0(1) 01 - DPB ALEG 07L
 - M1(1) 02 - DPB ALEG 06L
 - M1(1) 03 - DPB ALEG 05L
 - M2(1) 04 - DPB ALEG 04L
 - M6(1) 07 - DPA ALEG 03L
 - M7(1) 09 - DPA ALEG 02L
 - M4(1) 05 - DPA ALEG 01L
 - M5(1) 06 - DPA ALEG 00L
- CONSTANTS
- ENB
- 15
- CONE ALLOW CONSTANTS L SEL

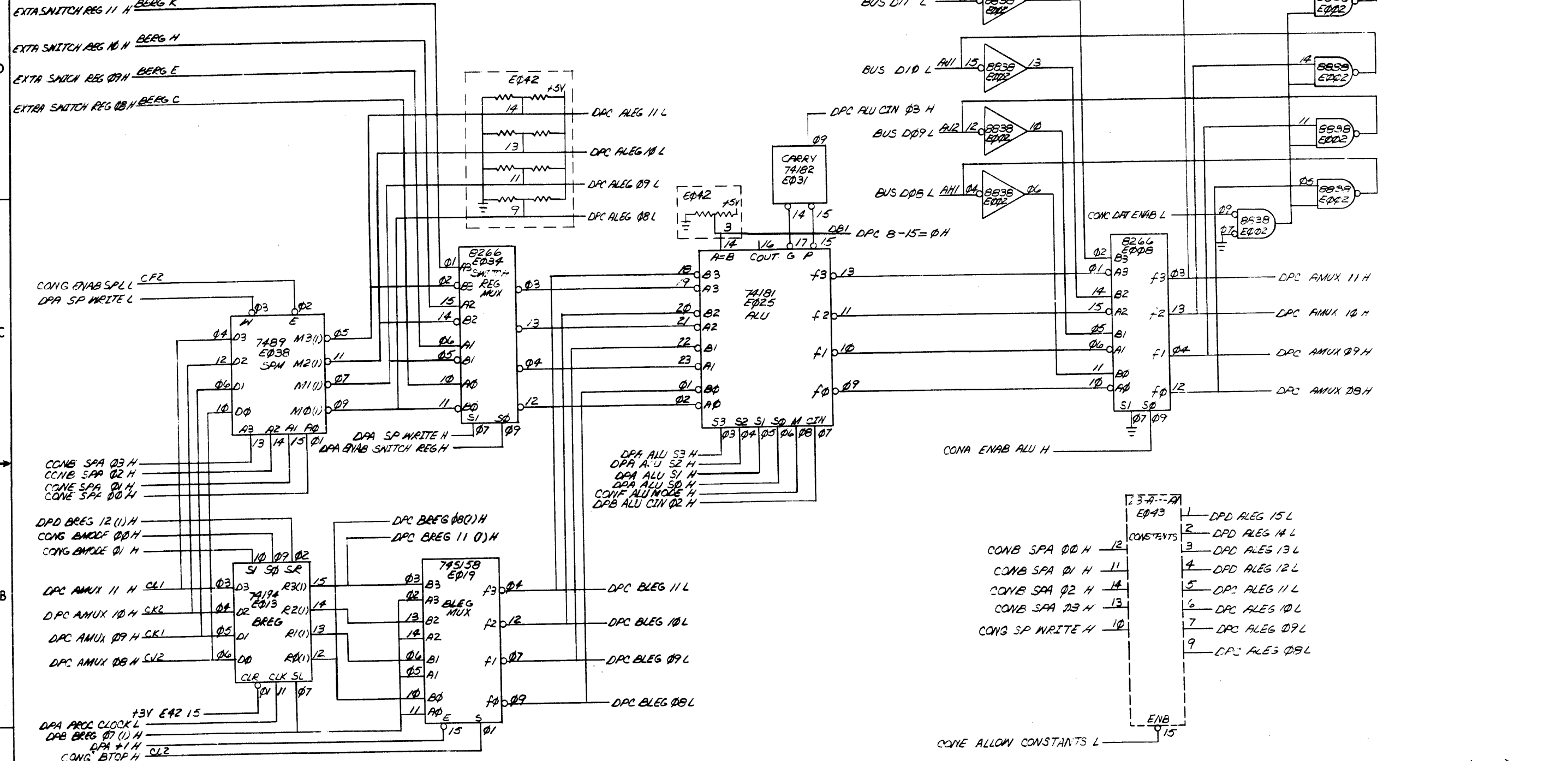
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN M. R. R.	DATE 12/5/77		
DECIMALS .XXX - .005 ANGLES ±0° 30'	ENG M. R. R.	DATE 2/23/73		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROC. M. R. R.	DATE 2/23/73	TITLE DATA PATHS (DPB)	
MATERIAL	NEXT HIGHER ASSY	DATE		
FINISH	B-DD-KD11-B	SCALE	SIZE CODE DCSM7260-0-1	NUMBER M
	SHEET 5 OF	DIST.		

BRUNING 40 522 10840

REVISION: CHANGE NO.

THK

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- CONSTANTS
- 1 - DPD ALEG 15 L
 - 2 - DPD ALEG 14 L
 - 3 - DPD ALEG 13 L
 - 4 - DPD 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
- ENB 15

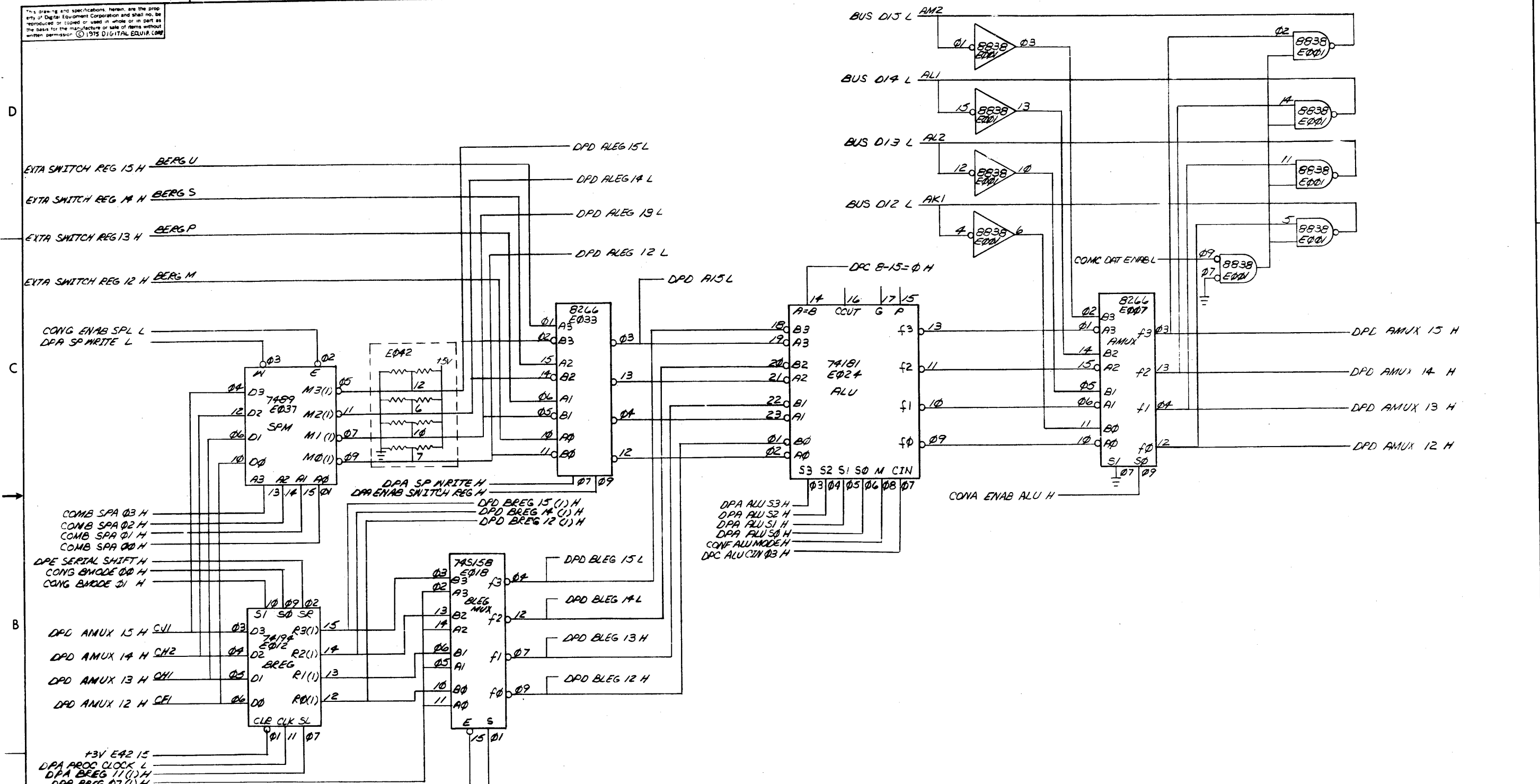
DATA PATH <11:08>

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS .xxx - .005 .xx - .02 .x - .1	ANGLES ± 0° 30'	PARTS LIST		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		TITLE		
MATERIAL		NEXT HIGHER ASSY		
FINISH		SCALE		
		SHEET 6 OF		
		SIZE CODE		
		NUMBER		
		REV.		
		DCS M7260-0-1		
		M		

BRUNING 40 522 15840
REVISIONS
CHANGE NO.
CHK

REV. M
NUMBER
D CS M7260-0-1

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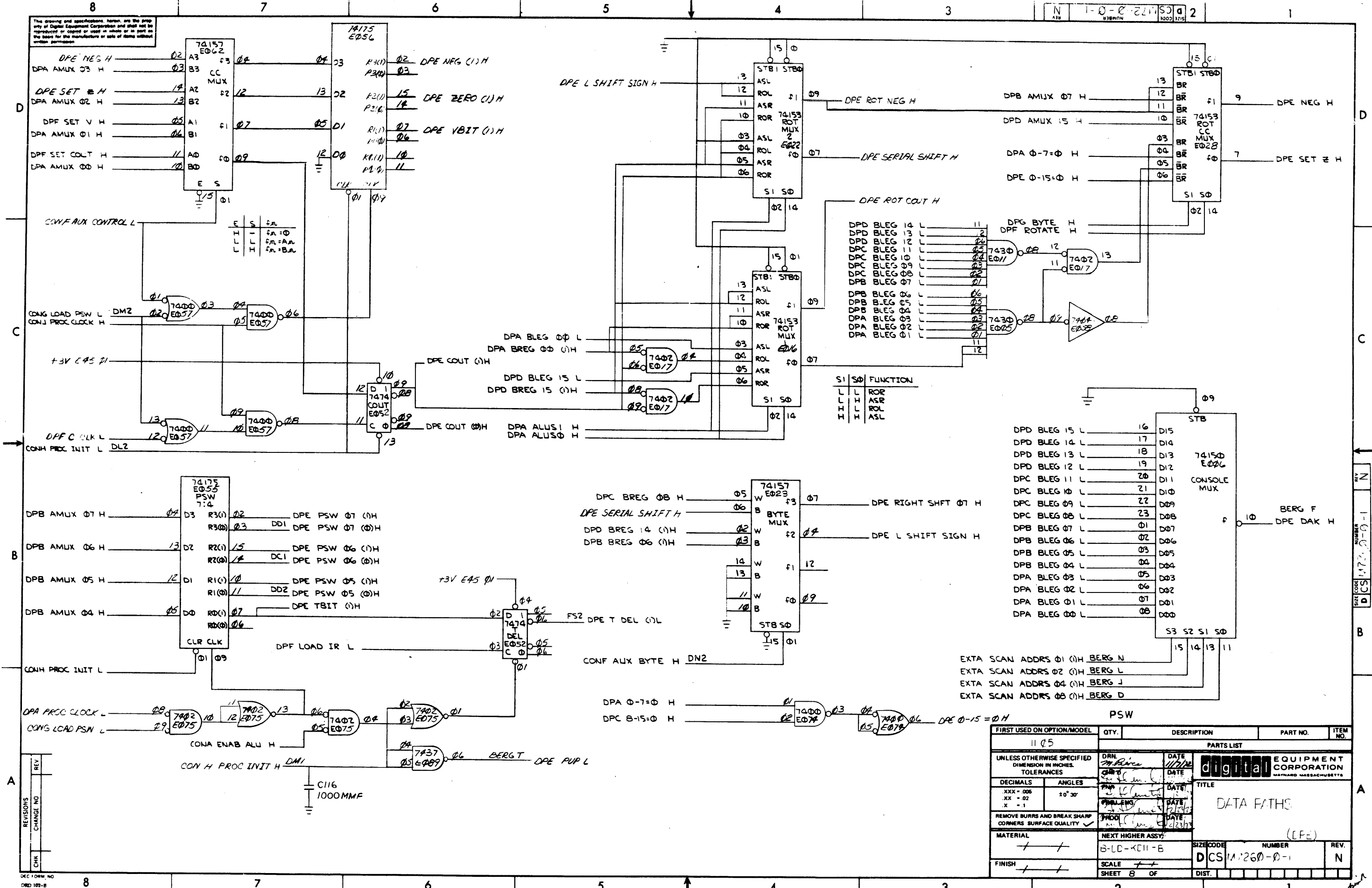


REV	CHG	NO

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN. <i>Mr. Rejz</i>	DATE <i>11/05</i>	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DECIMALS	CHK'D <i>[Signature]</i>	DATE <i>12/31/77</i>	TITLE	
ANGLES	ENG. <i>[Signature]</i>	DATE <i>12/31/77</i>	DATA PATHS	
XXX - 005 XX - 02 X - 1	PROJ. ENG. <i>[Signature]</i>	DATE <i>12/31/77</i>	(DPD)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>[Signature]</i>	DATE <i>12/31/77</i>		
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER	REV.
FINISH	B-DD-KD11-B	DCS	M7260-0-1	N
SCALE	SHEET 7 OF	DIST.		

SIZE CODE NUMBER DCS M7260-0-1

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SI S0 FUNCTION

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

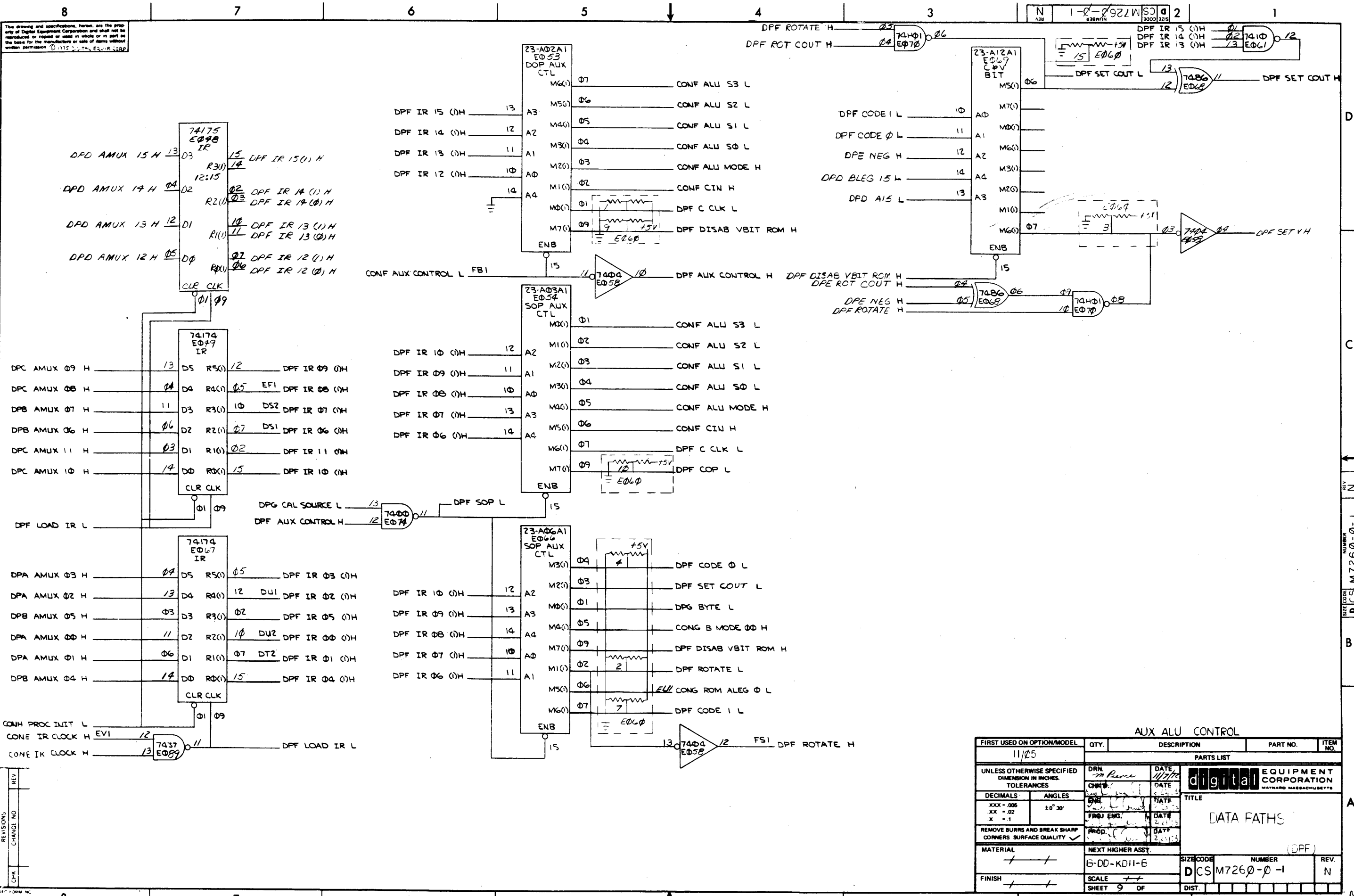
DPD BLEG 15 L	16	D15
DPD BLEG 14 L	17	D14
DPD BLEG 13 L	18	D13
DPD BLEG 12 L	19	D12
DPC BLEG 11 L	20	D11
DPC BLEG 10 L	21	D10
DPC BLEG 09 L	22	D09
DPC BLEG 08 L	23	D08
DPB BLEG 07 L	01	D07
DPB BLEG 06 L	02	D06
DPB BLEG 05 L	03	D05
DPB BLEG 04 L	04	D04
DPA BLEG 03 L	05	D03
DPA BLEG 02 L	06	D02
DPA BLEG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

EXTRA SCAN ADDR 01 (1)H BERG N
 EXTRA SCAN ADDR 02 (1)H BERG L
 EXTRA SCAN ADDR 04 (1)H BERG J
 EXTRA SCAN ADDR 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				
DECIMALS	ANGLES	TITLE		
.XX - .02	±0° 30'	DATA PATHS		
.X - .1		(LFE)		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
+	B-LD-KC11-B	DCS	11260-0-1	N
FINISH	SCALE	SHEET	OF	DIST.
+	8	2	8	

REVISIONS

REV	CHG	NO



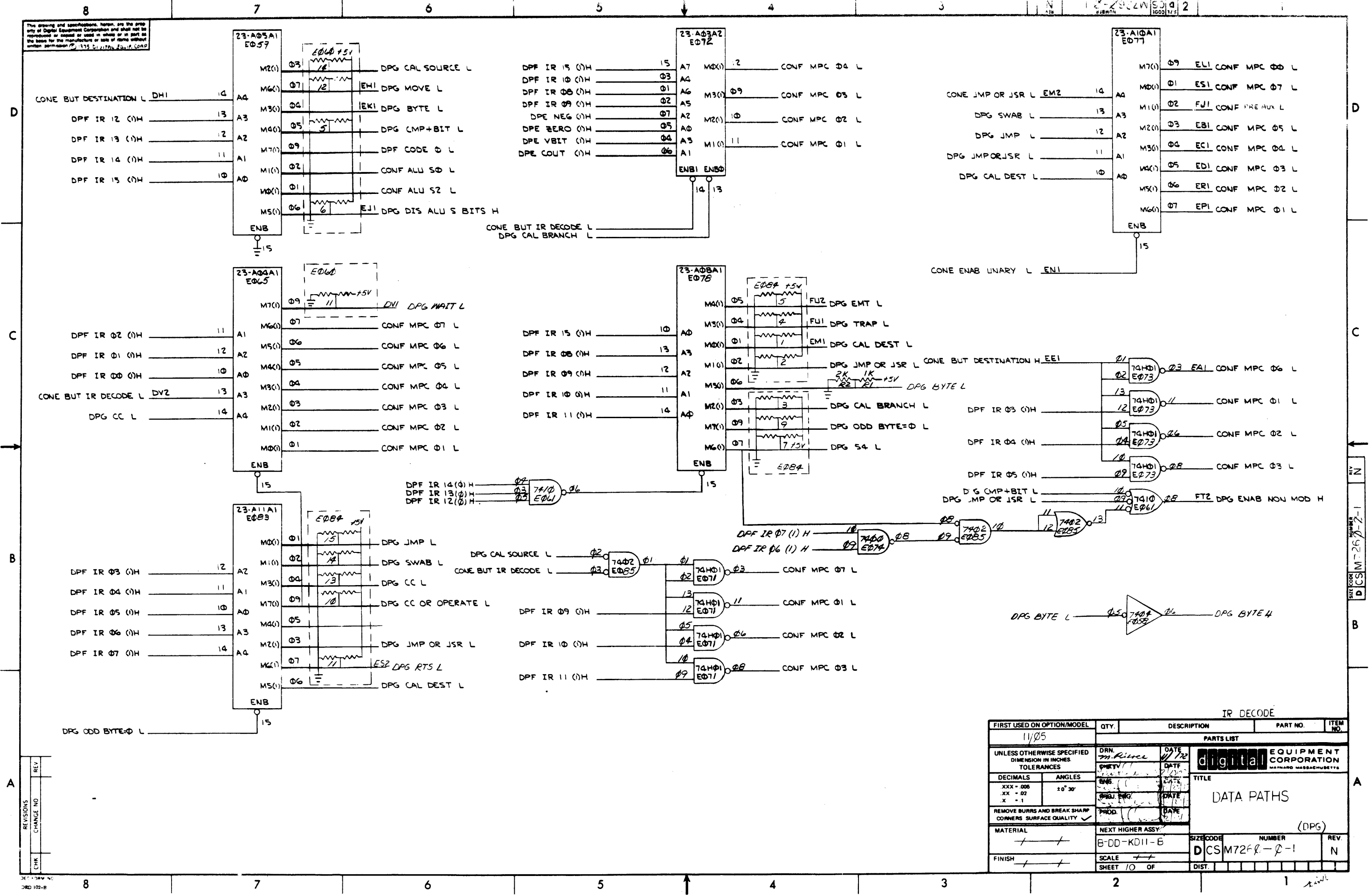
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FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/25				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRN <i>m Rouse</i>	DATE 11/7/78	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
DECIMALS .XXX - .006 .XX - .02 .X - .1	CHK'd	DATE		
ANGLES ±0° 30'	ENG.	DATE	TITLE DATA PATHS	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD.	DATE		
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	B-DD-KD11-B	D	CS M7260-0-1	N
SCALE	SHEET 9 OF	DIST.		

REV.	CHANGE NO.

REV. N
M7260-0-1
CS

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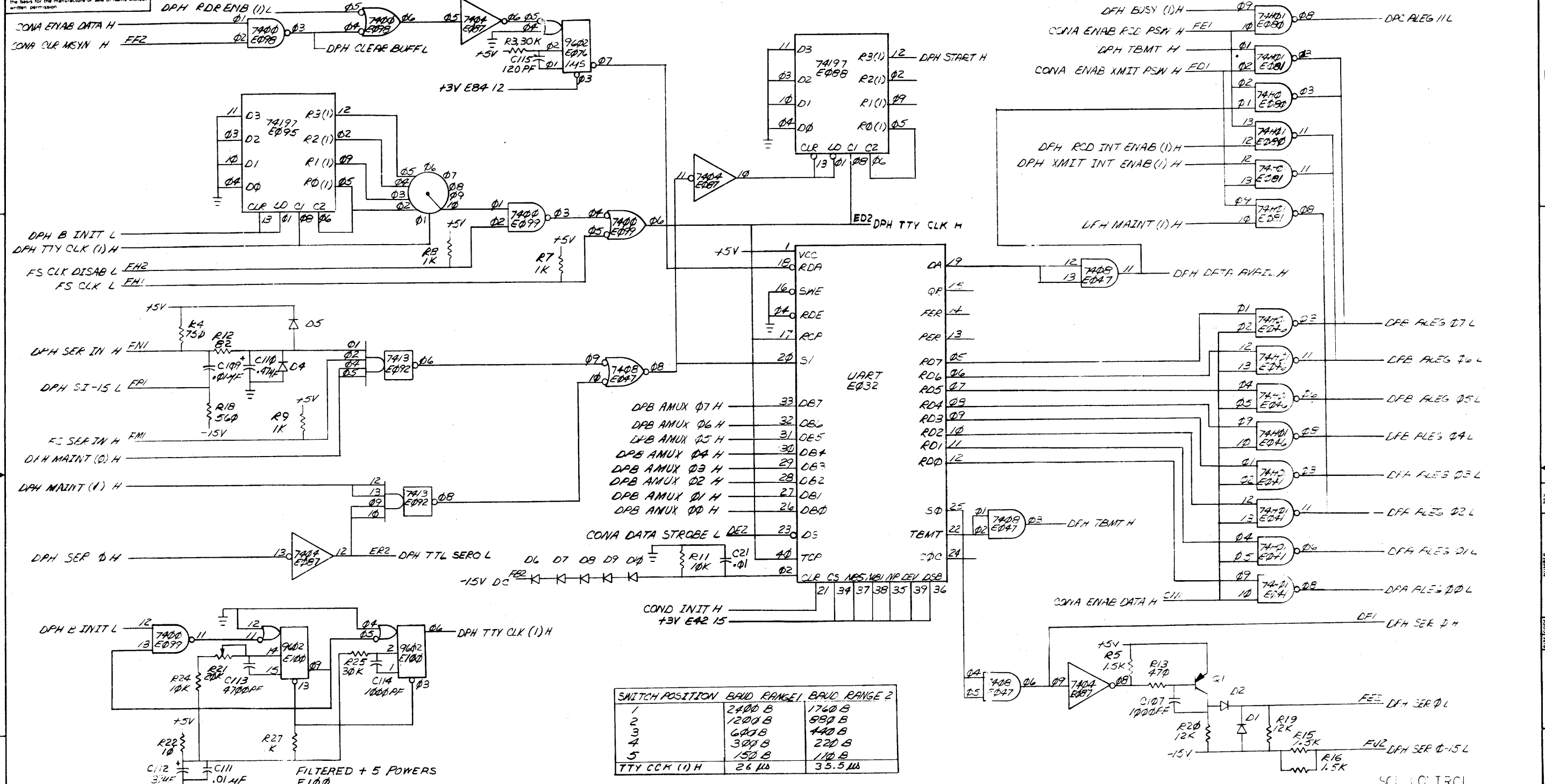
IR DECODE

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRN. <i>DR. RIVER</i>	DATE 11/72	 DIGITAL EQUIPMENT CORPORATION <small>MAYNARD MASSACHUSETTS</small>
DECIMALS	ANGLES	CHKD. <i>...</i>	DATE 7/73	
XXX = .005	XX = .02	XXX = 005	XX = 02	TITLE DATA PATHS (DPG)
X = .1	± 0° 30'	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>...</i>	
MATERIAL	NEXT HIGHER ASSY.			
FINISH	SCALE			
	SHEET 10 OF			
		SIZE CODE	NUMBER	REV.
		D C S M72FL-2-1		N
		DIST.		

REV.	CHANGE NO.	REVISIONS

REV. N
D C S M72FL-2-1

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SWITCH POSITION	BAUD RANGE 1	BAUD RANGE 2
1	2400 B	1760 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 μs	35.5 μs

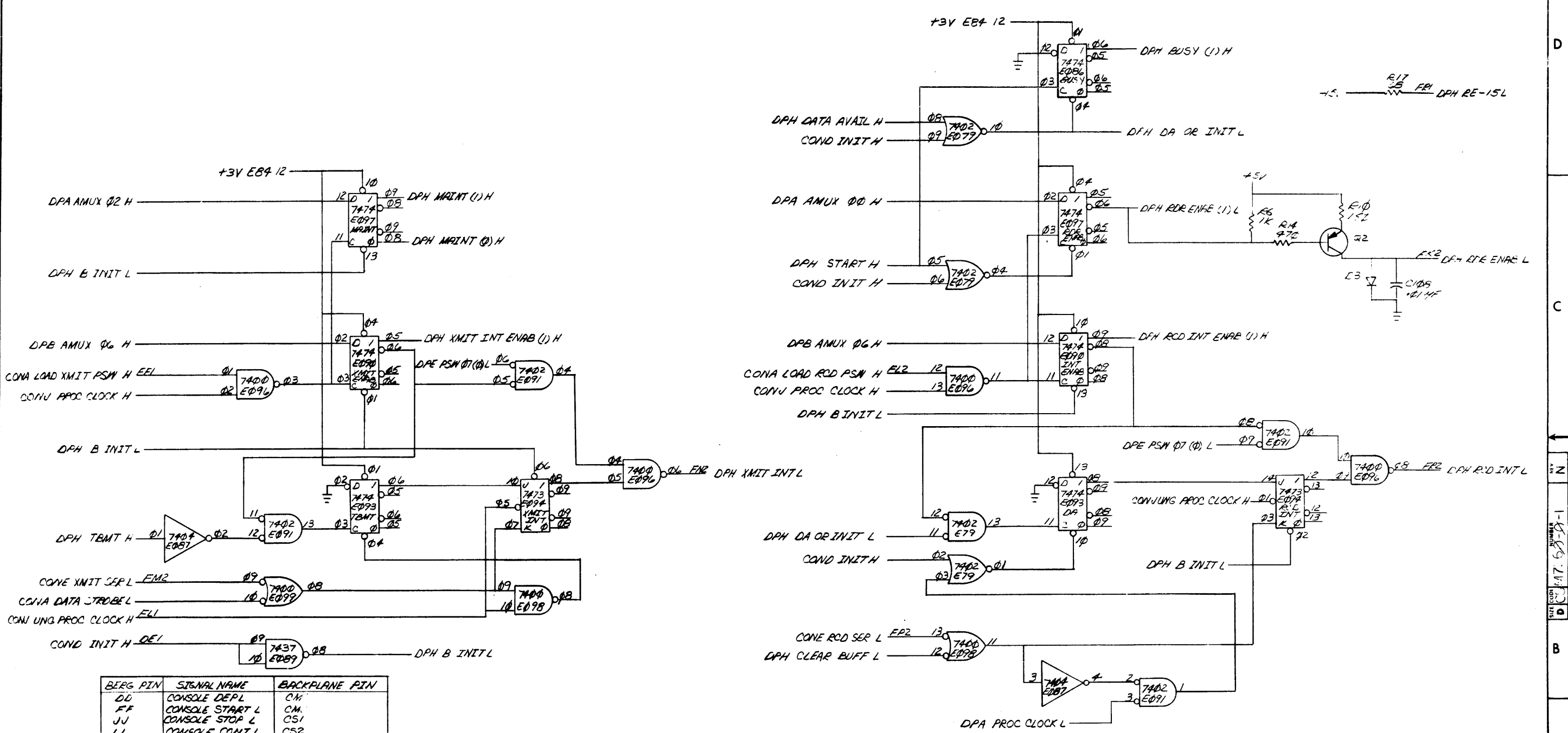
FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11,05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES				
DECIMALS	ANGLES	TITLE		
XXX + .005	± 0' 30"	DATA PATH		
XX + .02		(DPH)		
X + .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIAL				
NEXT HIGHER ASSY				
FINISH				
SCALE		SIZE CODE		REV.
SHEET 11 OF		B-DD-KD11-8		M
DIST.		DCS M7260-0-1		

REV.	CHG.	NO.	DATE	BY

BRUNING 40 522 15840
DMD 102-E

SIZE CODE NUMBER
DCS M7260-0-1

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BERG PIN	SIGNAL NAME	BACKPLANE PIN
DD	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 ON 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. ENG</td> <td>DATE</td> </tr> <tr> <td>PROD.</td> <td>DATE</td> <td>TITLE</td> </tr> <tr> <td colspan="2">REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY</td> <td colspan="3">DATA PATH (DPH1)</td> </tr> <tr> <td colspan="2">MATERIAL</td> <td>NEXT HIGHER ASSY</td> <td>SIZE CODE</td> <td>NUMBER</td> </tr> <tr> <td colspan="2">FINISH</td> <td>B-PL-K11-B</td> <td>DCS</td> <td>M7250-0-1</td> </tr> <tr> <td colspan="2"></td> <td>SCALE</td> <td></td> <td>REV. N</td> </tr> <tr> <td colspan="2"></td> <td>SHEET 12 OF</td> <td>DIST.</td> <td></td> </tr> </table>			DRN	DATE		CHKD	DATE	ENG	DATE	PRJ. ENG	DATE	PROD.	DATE	TITLE	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATA PATH (DPH1)			MATERIAL		NEXT HIGHER ASSY	SIZE CODE	NUMBER	FINISH		B-PL-K11-B	DCS	M7250-0-1			SCALE		REV. N			SHEET 12 OF	DIST.	
DRN	DATE																																								
CHKD	DATE																																								
ENG	DATE																																								
PRJ. ENG	DATE																																								
PROD.	DATE	TITLE																																							
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATA PATH (DPH1)																																							
MATERIAL		NEXT HIGHER ASSY	SIZE CODE	NUMBER																																					
FINISH		B-PL-K11-B	DCS	M7250-0-1																																					
		SCALE		REV. N																																					
		SHEET 12 OF	DIST.																																						

REVISIONS
 CHANGE NO.
 CHK

NUMBER
 17.58-0-1


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REV. NUMBER SIZE CODE NUMBER 2 K RL M7260-0-8

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-A10A1
- 23-A11A1
- 23-A12A1
- 23-AB3A2

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

REVISIONS	REV.
CHANGE NO.	
CHK	


```

OCTAL  DECIMAL
ADDRESS ADDRESS
000  EDCBA
001  00000
002  00001
003  00010
004  00011
005  00100
006  00101
007  00110
010  01000
011  01001
012  01010
013  01011
014  01100
015  01101
016  01110
017  01111
020  10000
021  10001
022  10010
023  10011
024  10100
026  10110
027  10111
030  11000
031  11001
032  11010
033  11011
034  11100
035  11101
036  11110
037  11111
000  *****
001  /( #Y7 (PIN #7) DPG CODE 0 L
002  /( #Y6 (PIN #6) DPG MOVE L
003  /( #Y5 (PIN #5) DPG CMP OR BIT L
004  /( #Y4 (PIN #4) DPG BYTE L
005  /( #Y3 (PIN #3) DPG CAL SOURCE L
006  /( #Y2 (PIN #2) CONF ALU 80 L
007  /( #Y1 (PIN #1) CONF ALU 52 L
008  *****
009  OCTAL
010  DATA
011  337
012  337
013  333
014  323
015  313
016  303
017  133
020  170
021  233
022  323
023  333
024  313
025  303
026  337
027  337
030  337
031  333
032  323
033  303
034  133
035  233
036  323
037  333
038  333
039  323
040  313
041  303
042  337
043  337
000  *****
001  /( A(PIN #10) IS DPG IR 15 (1)H
002  /( B(PIN #11) IS DPG IR 14 (1)H
003  /( C(PIN #12) IS DPG IR 13 (1)H
004  /( D(PIN #13) IS DPG IR 12 (1)H
005  /( E(PIN #14) IS CONE OUT DESTINATION L
    
```

```

OCTAL  DECIMAL
ADDRESS ADDRESS
000  BR/CC (BRANCH OR CC OPERATOR)
001  BR/CC
002  BIC(B)
003  BIC(B)
004  CMP(B)
005  CMP(B)
006  ADD
007  SUB DIS ALU BITS H
008  MOV
009  MOV(B)
010  BIC(B)
011  BIC(B)
012  BIT(B)
013  BIT(B)
014  RI TRAP
015  RI TRAP
016  BR/CC
017  BR/CC
018  BIC(B)
019  BIC(B)
020  CMP
021  CMP(B)
022  ADD
023  ADD
024  MOV
025  MOV(B)
026  BIC(B)
027  BIC(B)
028  BIT(B)
029  BIT(B)
030  RI TRAP
031  RI TRAP
    
```

```

OCTAL  DECIMAL
ADDRESS ADDRESS
000  EDCBA
001  00000
002  00001
003  00010
004  00011
005  00100
006  00101
007  00110
010  01000
011  01001
012  01010
013  01011
014  01100
015  01101
016  01110
017  01111
020  10000
021  10001
022  10010
023  10011
024  10100
025  10101
026  10110
027  10111
030  11000
031  11001
032  11010
033  11011
034  11100
035  11101
036  11110
037  11111
000  *****
001  /( #Y8 (PIN #8) DPG DISAB V BIT ROM H
002  /( #Y7 (PIN #7) DPG CODE 1 L
003  /( #Y6 (PIN #6) CONG ROM ALEG 0 L
004  /( #Y5 (PIN #5) CONG 0 MODE 00 H
005  /( #Y4 (PIN #4) DPG CODE 0 L
006  /( #Y3 (PIN #3) DPG SET CARRY L
007  /( #Y2 (PIN #2) DPG ROTATE L
008  /( #Y1 (PIN #1) DPG BYTE L
009  *****
010  OCTAL
011  DATA
012  377
013  377
014  377
015  266
016  365
017  345
018  345
019  267
020  067
021  363
022  077
023  001
024  377
025  377
026  377
027  377
030  377
031  377
032  377
033  377
034  001
035  377
036  377
037  377
038  137
039  067
040  367
041  377
042  377
043  377
000  *****
001  /( A(PIN #10) IS DPG IR 07 (1)H
002  /( B(PIN #11) IS DPG IR 06 (1)H
003  /( C(PIN #12) IS DPG IR 10 (1)H
004  /( D(PIN #13) IS DPG IR 09 (1)H
005  /( E(PIN #14) IS DPG IR 08 (1)H
    
```

```

OCTAL  DECIMAL
ADDRESS ADDRESS
000  SNAB DISAB V BIT ROM
001  ROR
002  ASH
003  ROL
004  ASL
005  CLR
006  INC
007  COH
008  DEC
009  BCC
010  BMI
011  BVS
012  NEG
013  SBC
014  ADC
015  TST
    
```

OCTAL ADDRESS	DECIMAL ADDRESS	EDCBA	
000	0	01111111	DATA
001	1	11110111	377
002	2	11111011	373
003	3	11111011	373
004	4	11111011	373
005	5	11111011	373
006	6	11111011	373
007	7	11111011	373
010	8	11111011	373
011	9	11111011	373
012	10	11111011	373
013	11	11111011	373
014	12	11111011	373
015	13	11111011	373
016	14	11111011	373
017	15	11111011	373
020	16	10011100	374
021	17	10011100	357
022	18	10011100	376
023	19	10011100	336
024	20	10111100	376
025	21	10111100	336
026	22	10111100	377
027	23	10111100	377
030	24	11011100	374
031	25	11011100	367
032	26	11011100	377
033	27	11011100	377
034	28	11011100	276
035	29	11011100	236
036	30	11111100	377
037	31	11111100	377

/* EY8 (PIN #9) DPG ODD BYTE = 0L
 /* EY7 (PIN #7) DPG 54 L
 /* EY6 (PIN #6) DPG BYTE L
 /* EY5 (PIN #5) DPG EMT L
 /* EY4 (PIN #4) DPG TRAP L
 /* EY3 (PIN #3) DPG CAL BRANCH L
 /* EY2 (PIN #2) DPG JSR L
 /* EY1 (PIN #1) DPG CAL DEST L
 ***** OCTAL
 ***** DATA
 BPL
 BGE
 BVC
 BNE
 BHI
 BGT
 BCC
 BR
 BMI
 BLT
 BVS
 BEQ
 BLOS
 BLE
 BCS
 JSR
 EMT
 SOP (CC) ROR/ROL/ASR/ASL
 OPR (DST) ROR(B)/ROL(B)/ASR(B)/ASL(B)
 SOP (CC) CLR/COM/INC/DEC
 OPR (DST) CLR(B)/COM(B)/INC(B)/DEC(B)
 RI RESERVED INST
 RI RESERVED INST
 JSR
 TRAP
 RI RESERVED INST
 RI RESERVED INST
 RI RESERVED INST
 SOP NEG/ADC/SBC/TST
 OPR (DST) NEG(B)/ADC(B)/SBC(B)/TST(B)
 RI RESERVED INST
 RI RESERVED INST

 /* E(PIN #10) IS DPF IR 15 (1)H
 /* E(PIN #11) IS DPF IR 10 (1)H
 /* E(PIN #12) IS DPF IR 09 (1)H
 /* E(PIN #13) IS DPF IR 08 (1)H
 /* E(PIN #14) IS DPF IR 11 (1)H

OCTAL ADDRESS	DECIMAL ADDRESS	EDCBA	
000	0	00000	DATA
001	1	00001	377
002	2	00010	377
003	3	00011	377
004	4	00100	377
005	5	00101	377
006	6	00110	377
007	7	00111	377
010	8	01000	337
011	9	01001	337
012	10	01010	337
013	11	01011	337
014	12	01100	257
015	13	01101	377
016	14	01110	377
017	15	01111	377
020	16	10000	377
021	17	10001	377
022	18	10010	377
023	19	10011	377
024	20	10100	377
025	21	10101	377
026	22	10110	327
027	23	10111	377
030	24	11000	377
031	25	11001	377
032	26	11010	157
033	27	11011	377
034	28	11100	157
035	29	11101	157
036	30	11110	377
037	31	11111	365

/* EY8 (PIN #9) CONF MPC 00 L
 /* EY7 (PIN #7) CONF MPC 01 L
 /* EY6 (PIN #6) CONF MPC 02 L
 /* EY5 (PIN #5) CONF MPC 03 L
 /* EY4 (PIN #4) CONF MPC 04 L
 /* EY3 (PIN #3) CONF MPC 05 L
 /* EY2 (PIN #2) CONG CKOFF L
 /* EY1 (PIN #1) CONF MPC 07 L
 ***** OCTAL
 ***** DATA
 JUMP BADR TO J=1 @204
 JUMP BADR TO J=1 @204
 JSR BADR TO J2=1 @ 212
 NOT JMP OR JSR FALL THRU TO O1=2 @ 200
 SWAB BADR 024 INOR NEXT
 JMP BADR 011 INOR NEXT
 JMP BADR 011 INOR NEXT
 JSR BADR 011 INOR NEXT
 SOP BADR 210 INOR NXT
 UNARY AND NOT JMP, JSR, SWAB

 /* E(PIN #10) IS JPG CAL DEST L
 /* E(PIN #11) IS DPG JMP L OR JSR L
 /* E(PIN #12) IS DPG JMP L
 /* E(PIN #13) IS DPG SWAB L
 /* E(PIN #14) IS CONG JMP OR JSR L


```

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

```

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

```

NOT ACCESSED
*****

```

```

BGE
*****

```

OCTAL ADDRESS	HEX ADDRESS	DATA	COMMENT
040	00100000	00100000	
041	00100001	00100001	
042	00100010	00100010	
043	00100011	00100011	
044	00100100	00100100	
045	00100101	00100101	
046	00100110	00100110	
047	00100111	00100111	
050	00101000	00101000	
051	00101001	00101001	
052	00101010	00101010	
053	00101011	00101011	
054	00101100	00101100	
055	00101101	00101101	
056	00101110	00101110	
057	00101111	00101111	
060	00110000	00110000	
061	00110001	00110001	
062	00110010	00110010	
063	00110011	00110011	
064	00110100	00110100	
065	00110101	00110101	
066	00110110	00110110	
067	00110111	00110111	
070	00111000	00111000	
071	00111001	00111001	
072	00111010	00111010	
073	00111011	00111011	
074	00111100	00111100	
075	00111101	00111101	
076	00111110	00111110	
077	00111111	00111111	
080	00110000	00110000	
081	00110001	00110001	
082	00110010	00110010	
083	00110011	00110011	
084	00110100	00110100	
085	00110101	00110101	
086	00110110	00110110	
087	00110111	00110111	
090	00111000	00111000	
091	00111001	00111001	
092	00111010	00111010	
093	00111011	00111011	
094	00111100	00111100	
095	00111101	00111101	
096	00111110	00111110	
097	00111111	00111111	
100	00110000	00110000	
101	00110001	00110001	
102	00110010	00110010	
103	00110011	00110011	
104	00110100	00110100	
105	00110101	00110101	
106	00110110	00110110	
107	00110111	00110111	
110	00111000	00111000	
111	00111001	00111001	
112	00111010	00111010	
113	00111011	00111011	
114	00111100	00111100	
115	00111101	00111101	
116	00111110	00111110	
117	00111111	00111111	
120	00110000	00110000	
121	00110001	00110001	
122	00110010	00110010	
123	00110011	00110011	
124	00110100	00110100	
125	00110101	00110101	
126	00110110	00110110	
127	00110111	00110111	
130	00111000	00111000	
131	00111001	00111001	
132	00111010	00111010	
133	00111011	00111011	
134	00111100	00111100	
135	00111101	00111101	
136	00111110	00111110	
137	00111111	00111111	

```

BNE
*****

```

```

BGT
*****

```

```

*****( A(PIN #05) IS DPE CC ZERO (1)H
*****( B(PIN #06) IS DPE CC OUT (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
*****( H(PIN #15) IS DPF IR 15 (1)H

```

```

OCTAL ADDRESS      HGFCDCBA
102          01000000
101          01000001
100          01000010
103          01000011
099          01000100
105          01000101
106          01000110
107          01000111
110          01001000
111          01001001
112          01001010
113          01001011
114          01001100
115          01001101
116          01001110
117          01001111
120          01010000
121          01010001
122          01010010
123          01010011
124          01010100
125          01010101
126          01010110
127          01010111
130          01011000
131          01011001
132          01011004
133          01011010
134          01011011
135          01011100
136          01011101
137          01011110
138          01011111

```

```

/( 0Y4 (PIN # 9) CONF MPC 03 L
/( 0Y3 (PIN #10) CONF MPC 02 L
/( 0Y2 (PIN #11) CONF MPC 01 L
/( 0Y1 (PIN #12) CONF MPC 04 L
****
OCTAL
****
DATA
001 003
002 003
003 003
004 003
005 003
006 003
007 003
008 003
009 003
010 003
011 003
012 003
013 003
014 003
015 003
016 003
017 003
018 003
019 003
020 003
021 003
022 003
023 003
024 003
025 003
026 003
027 003
028 003
029 003
030 003
031 003
032 003
033 003
034 003
035 003
036 003
037 003
038 003
039 003
040 003
041 003
042 003
043 003
044 003
045 003
046 003
047 003
048 003
049 003
050 003
051 003
052 003
053 003
054 003
055 003
056 003
057 003
058 003
059 003
060 003
061 003
062 003
063 003
064 003
065 003
066 003
067 003
068 003
069 003
070 003
071 003
072 003
073 003
074 003
075 003
076 003
077 003
078 003
079 003
080 003
081 003
082 003
083 003
084 003
085 003
086 003
087 003
088 003
089 003
090 003
091 003
092 003
093 003
094 003
095 003
096 003
097 003
098 003
099 003
100 003

```

BR (ALWAYS)

BLT

```

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

```

BEQ

BLE

```

*****/( 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
/( H(PIN #15) IS DPF IR 15 (1)H

```



```

OCTAL   DECIMAL
ADDRESS ADDRESS
HGVEDCBA
300 192 11000000
301 193 11000001
302 194 11000010
303 195 11000011
304 196 11000100
305 197 11000101
306 198 11000110
307 199 11000111
310 200 11001000
311 201 11001001
312 202 11001010
313 203 11001011
314 204 11001100
315 205 11001101
316 206 11001110
317 207 11001111
320 210 11010000
321 211 11010001
322 212 11010010
323 213 11010011
324 214 11010100
325 215 11010101
326 216 11010110
327 217 11010111
330 219 11011000
331 220 11011001
332 221 11011010
333 222 11011011
334 223 11011100
335 224 11011101
336 225 11011110
337 226 11011111
*/( B4 (PIN # 9) CONF MPC 03 L
*/( B3 (PIN #10) CONF MPC 02 L
*/( B2 (PIN #11) CONF MPC 01 L
*/( B1 (PIN #12) CONF MPC 04 L
*/
OCTAL
*/
000 000
001 001
002 002
003 003
004 004
005 005
006 006
007 007
008 008
009 009
010 010
011 011
012 012
013 013
014 014
015 015
016 016
017 017
018 018
019 019
020 020
021 021
022 022
023 023
024 024
025 025
026 026
027 027
030 030
031 031
032 032
033 033
034 034
035 035
036 036
037 037
BHI *****
BVS *****

```

```

340 229 11100000
341 230 11100001
342 231 11100010
343 232 11100011
344 233 11100100
345 234 11100101
346 235 11100110
347 236 11100111
350 239 11101000
351 240 11101001
352 241 11101010
353 242 11101011
354 243 11101100
355 244 11101101
356 245 11101110
360 248 11110000
361 249 11110001
362 250 11110010
363 251 11110011
364 252 11110100
365 253 11110101
366 254 11110110
367 255 11110111
*/( 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
*/( H(PIN #15) IS DPF IR 15 (1)H
BLOS *****
BCS *****

```

PAGE REVISION CONTROL SHEET

SH NO	PAGE REVISIONS													REMARKS
	W	X	Y	Z	A	B	C	D	E	F	G	H	I	
1	M	M	M	M	M	M	M	M	M	M	M	M	M	ETCH REV'D NOT TO BE USED PER ORDER D.E. ECO #14 APPLIED TO ETCH REV C AND E BOARDS ONLY.
2	M	M	M	M	M	M	M	M	M	M	M	M	M	
3	M	M	M	M	M	M	M	M	M	M	M	M	M	
4	M	M	M	M	M	M	M	M	M	M	M	M	M	
5	M	M	M	M	M	M	M	M	M	M	M	M	M	
6	M	M	M	M	M	M	M	M	M	M	M	M	M	
7	M	M	M	M	M	M	M	M	M	M	M	M	M	
8	M	M	M	M	M	M	M	M	M	M	M	M	M	
9	M	M	M	M	M	M	M	M	M	M	M	M	M	
10	M	M	M	M	M	M	M	M	M	M	M	M	M	
11	M	M	M	M	M	M	M	M	M	M	M	M	M	
12	M	M	M	M	M	M	M	M	M	M	M	M	M	
13	M	M	M	M	M	M	M	M	M	M	M	M	M	
14	M	M	M	M	M	M	M	M	M	M	M	M	M	

FIRST USED ON OPTION/MODEL

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DATE	01/16/72
DATE	02/21/72
DATE	03/11/72
DATE	03/17/72
DATE	03/21/72

DRN: *Handwritten initials*

CHK'D: *Handwritten initials*

ENG: *Handwritten initials*

PROJ. ENG: *Handwritten initials*

PROD. *Handwritten initials*

SCALE: _____

SHEET 1 OF 14

SIZE CODE: BCS

NUMBER: M7261-0-1

REV. V

TITLE: CONTROL LOGIC AND MICROPROGRAM

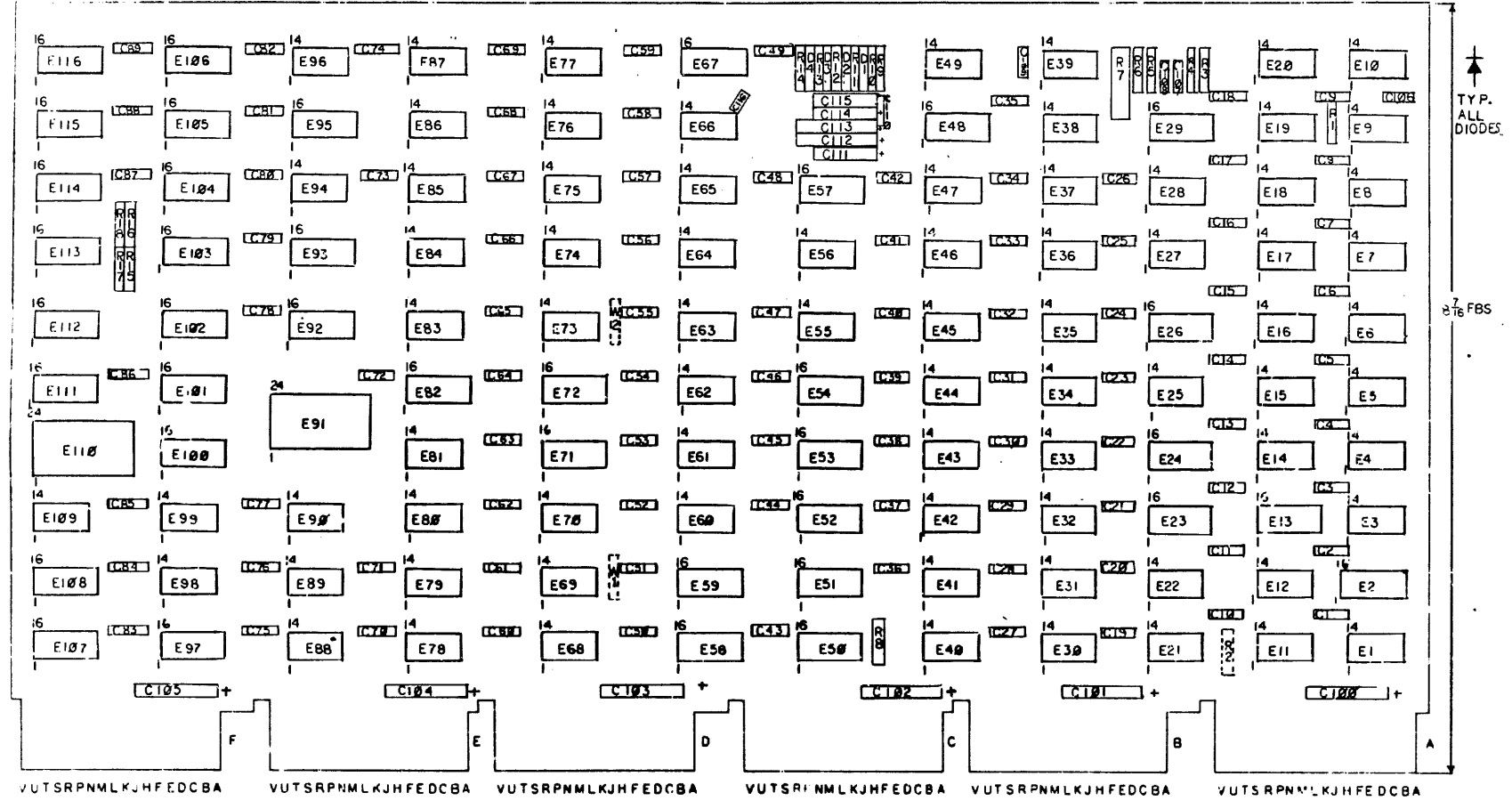
digital EQUIPMENT CORPORATION
WAYLAND MASSACHUSETTS

FOR REPAIR AND MAINTENANCE PURPOSES THE
CIRCUITRY SHOULD BE TREATED ACCORDINGLY
MILITARY INFORMATION (NARD, MASS.)

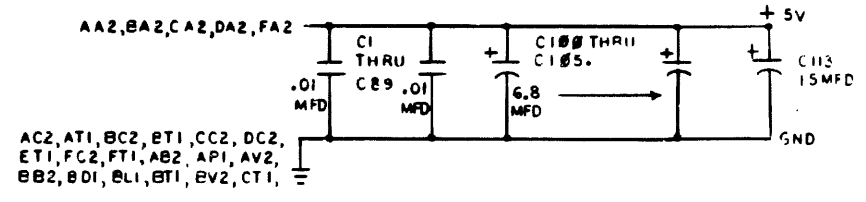
NOTE: UNLESS OTHERWISE NOTED, RESISTANCE IS IN OHMS.
CAPACITANCE IS IN PICOFARADS.

* DEC 8640'S WERE PHASFD IN AS 380 REPLACEMENTS.
ANY 380 FAILURES SHOULD BE REPLACED BY 8640'S.

1-0-1922W 10



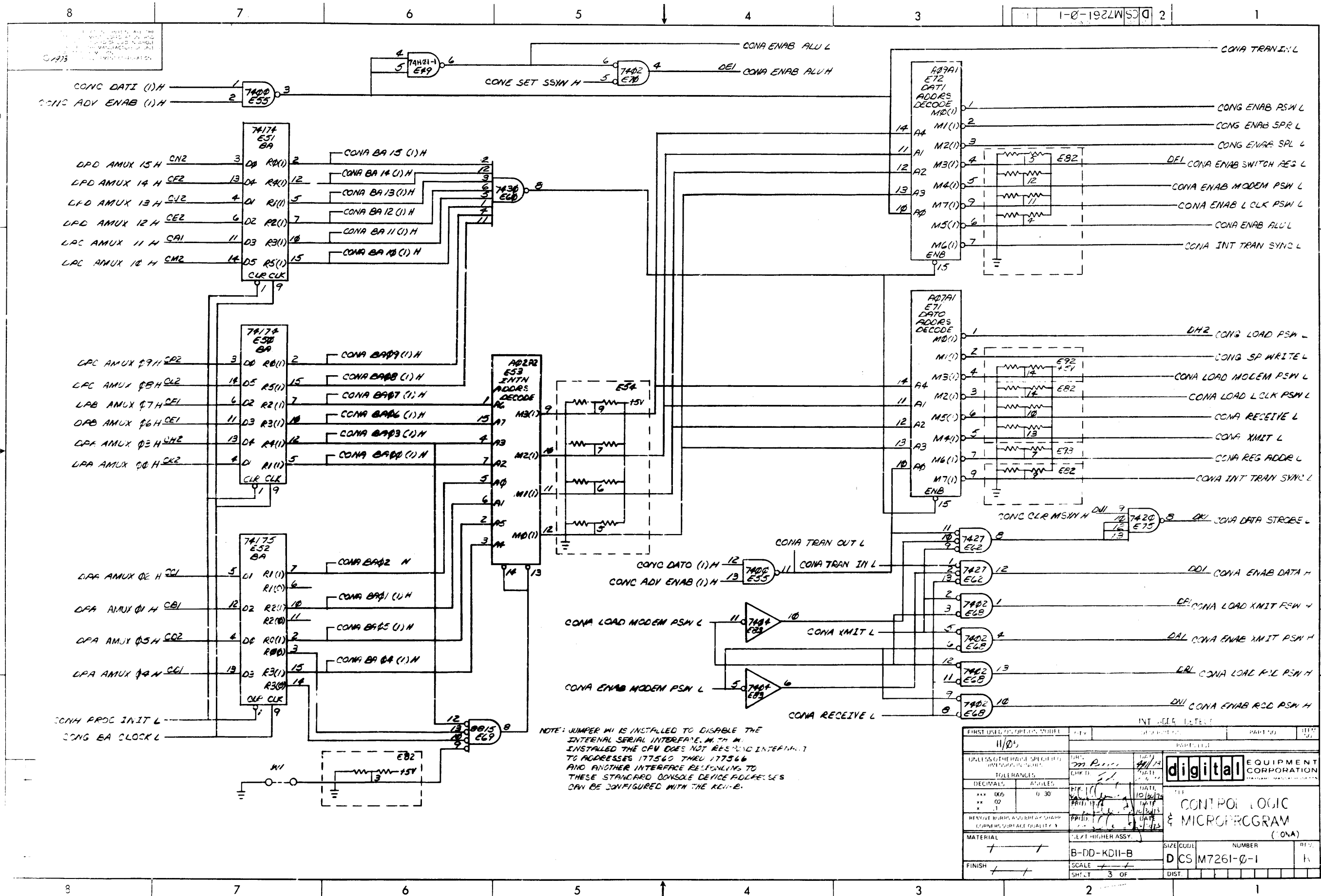
QTY.	REF. DESIGNATION	DESCRIPTION	PART NO.	TEM NO.
6	C100 THRU C105	CAPACITOR, 6.8 MFD, 35V, 10%, S.T.A.	1005306	69
2	C1 THRU C89	CAPACITOR, .01 MFD, 100V, 20%, DISC	1001610	68
2	C114, 115	CAPACITOR, .68 MFD, 35V, 10%, S.T.A.	1009964	67
1	C113	CAPACITOR, .15 MFD, 20V, 10%, S.T.A.	1004812	66
1	C112	CAPACITOR, .10 MFD, 20V, 10%, S.T.A.	1004813	65
1	C111	CAPACITOR, 2.2 MFD, 20V, 10%, S.T.A.	1002627	64
1	C110	CAPACITOR, 220 PF, 100V, 5%, DM	1000021	63
1	C109	CAPACITOR, 120 PF, 100V, 5%, DM	1000018	62
2	C108, C116	CAPACITOR, 1000 PF, 100V, 5%, DM	1000042	61
1	C107	CAPACITOR, 2200 PF, 250V, 20%, DISC	1000055	60
1	C106	CAPACITOR, 470 PF, 100V, D.M.	1000024	59
4	D12, 3, 4	DIODE, D664	1100114	58
2	R6, 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
3	R3, 16, 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	R15, 17	RESISTOR, 2K, 1/4W, 5%	1302388	48
				47
1	E24	IC A01A2	23A01A2	46
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 A14A1	23A14A1	39
1	E107	IC A23A2	23A23A2	38
1	E106	IC A17A2	23A17A2	37
1	E105	IC A16A2	23A16A2	36
1	E104	IC A25A2	23A25A2	35
1	E103	IC A24A2	23A24A2	34
1	E102	IC A24A2	23A24A2	33
1	E77	IC A09A1	23A09A1	32
1	E76	IC A07A1	23A07A1	31
1	E75	IC A22A2	23A22A2	30
2	E91, 110	IC DEC 74154	1909701	29
1	E89	IC DEC 7405	1909930	28
1	E81	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 74H01-1	1909849	23
2	E46, 62	IC DEC 7427	1910878	22
2	E45, 69	IC DEC 8815	1919713	21
1	E39	IC DEC 7413	1909989	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	E20, 28, 35, 72, 76, 87, 96	IC DEC 7474	1905547	16
1	E17	IC DEC 7437	1910091	15
3	E12, 22, 32	IC DEC 6640	1911459	14
4	E10, 64, 81, 84	IC DEC 74H40	1905586	13
10	E9, 27, 37, 47, 55, 64, 80, 85, 96, 98	IC DEC 7400	1905575	12
13	E6, 14, 18, 19, 33, 35, 38, 60, 70, 74, 7, 88, 94	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	E1, 11, 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	5009745	4
REF		MODULE ECO HISTORY	B-MH-M7261-0-6	3
REF		ASSY/DRILL HOLE LAYOUT	D-AH-M7261-0-5	2
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7261-0-4	1



PARTS LIST

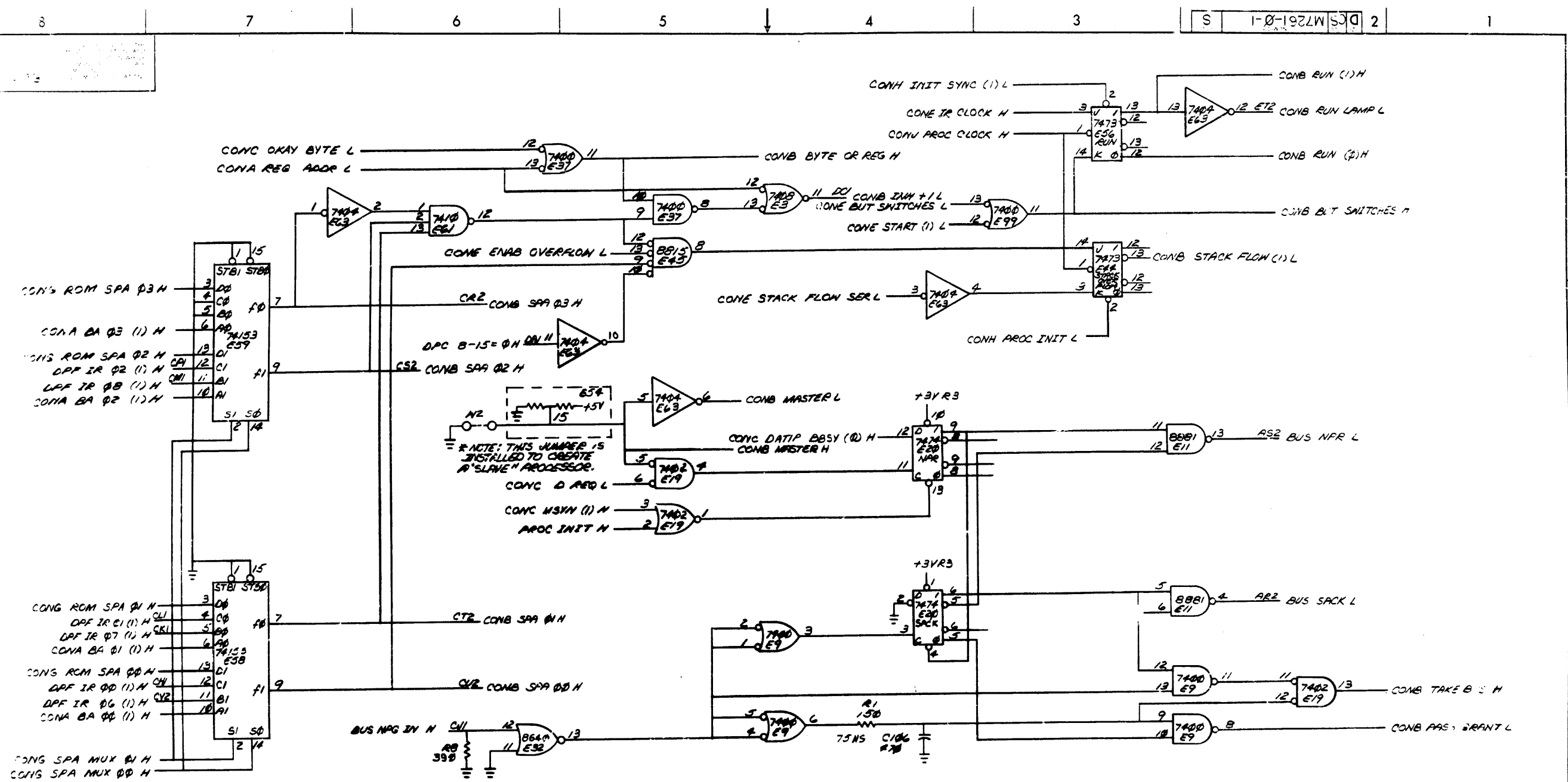
DATE	BY	TRANSISTOR & DIODE CONVERSION CHART	TITLE
9-5-73			CONTROL LOGIC & MICROPROGRAM
DEC 73			
DATE	BY	DATE	BY
10-20-73	H664	11-30-73	
DATE	BY	DATE	BY
11-20-73		11-20-73	

EQUIPMENT CORPORATION
SALE CODE D CS M7261-0-1
PRINTED CIRCUIT REV F

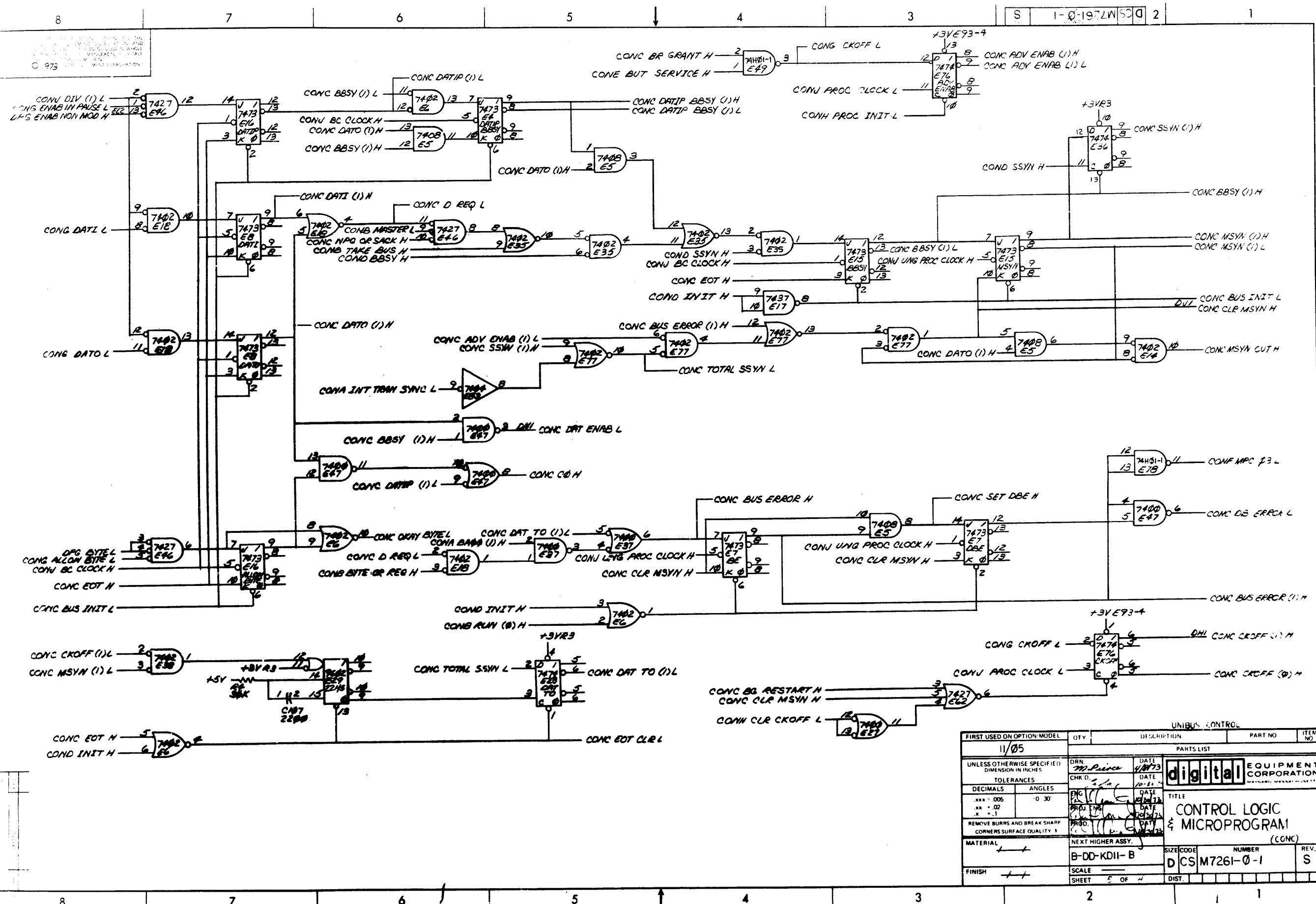


NOTE: JUMPER W1 IS INSTALLED TO DISABLE THE INTERNAL SERIAL INTERFACE. WITH W1 INSTALLED THE CPU DOES NOT RESPOND INTERNALLY TO ADDRESSES 177560 THRU 177566 AND ANOTHER INTERFACE RESPONDING TO THESE STANDARD CONSOLE DEVICE ADDRESSES CAN BE CONFIGURED WITH THE KCU-B.

FIRST USED OPERATION MODEL		REV		DATE		PART NO		ITEM NO	
11/05				11/19					
UNLESS OTHERWISE SPECIFIED TOLERANCES:									
DECIMALS	FRACTIONS								
*** 005	0/30								
** 02									
* .1									
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY									
MATERIAL									
NEXT HIGHER ASSY.									
FINISH									
B-DD-KDII-B		SIZE CODE		NUMBER		REV			
D CS M7261-0-1		D CS		M7261-0-1		h			
SCALE		3 OF		SHEET		3 OF			
DIST.									



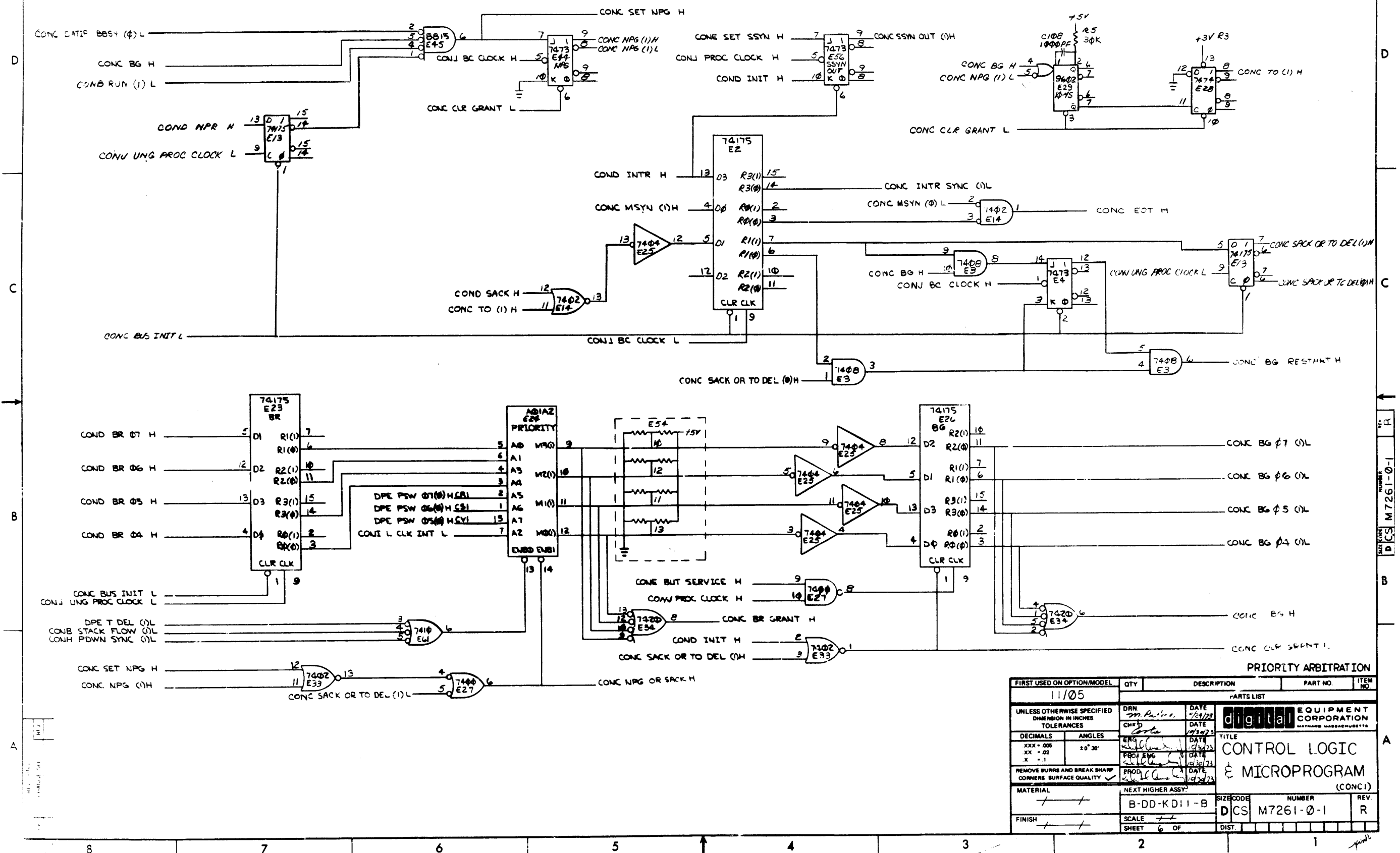
FIRST USED ON OPTION MODEL	11/05	QTY	DESCRIPTION	PART NO	ITEM NO
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DATE	4/3/73	PARTS LIST	
TOLERANCES		CHK'D	DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	4/3/73	TITLE	
xxx 005	0 30'	DATE	4/3/73	CONTROL LOGIC & MICROPROGRAM (CONB)	
xx 02		DATE	4/3/73	SIZE	
x .1		DATE	4/3/73	NUMBER	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE	4/3/73	REV.	
MATERIAL	NEXT HIGHER ASSY.	DATE	4/3/73	DCS M7261-0-1	
FINISH	B-DD-KD11-B	SCALE		SHEET 4 OF	
		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		M. Pierce	4/8/73	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	CHK D.	DATE	TITLE	
.xxx ± .005	° 30'		10-20-73	CONTROL LOGIC & MICROPROGRAM (CONC)	
.xx ± .02		ENG	DATE	MATERIAL	
.x ± .1		PROJ ENG	DATE	NEXT HIGHER ASSY.	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1		PROD.	DATE	B-DD-KDII-B	
				SCALE	
				D CS M7261-0-1	
				FINISH	
				SHEET 5 OF 4	
				DIST.	

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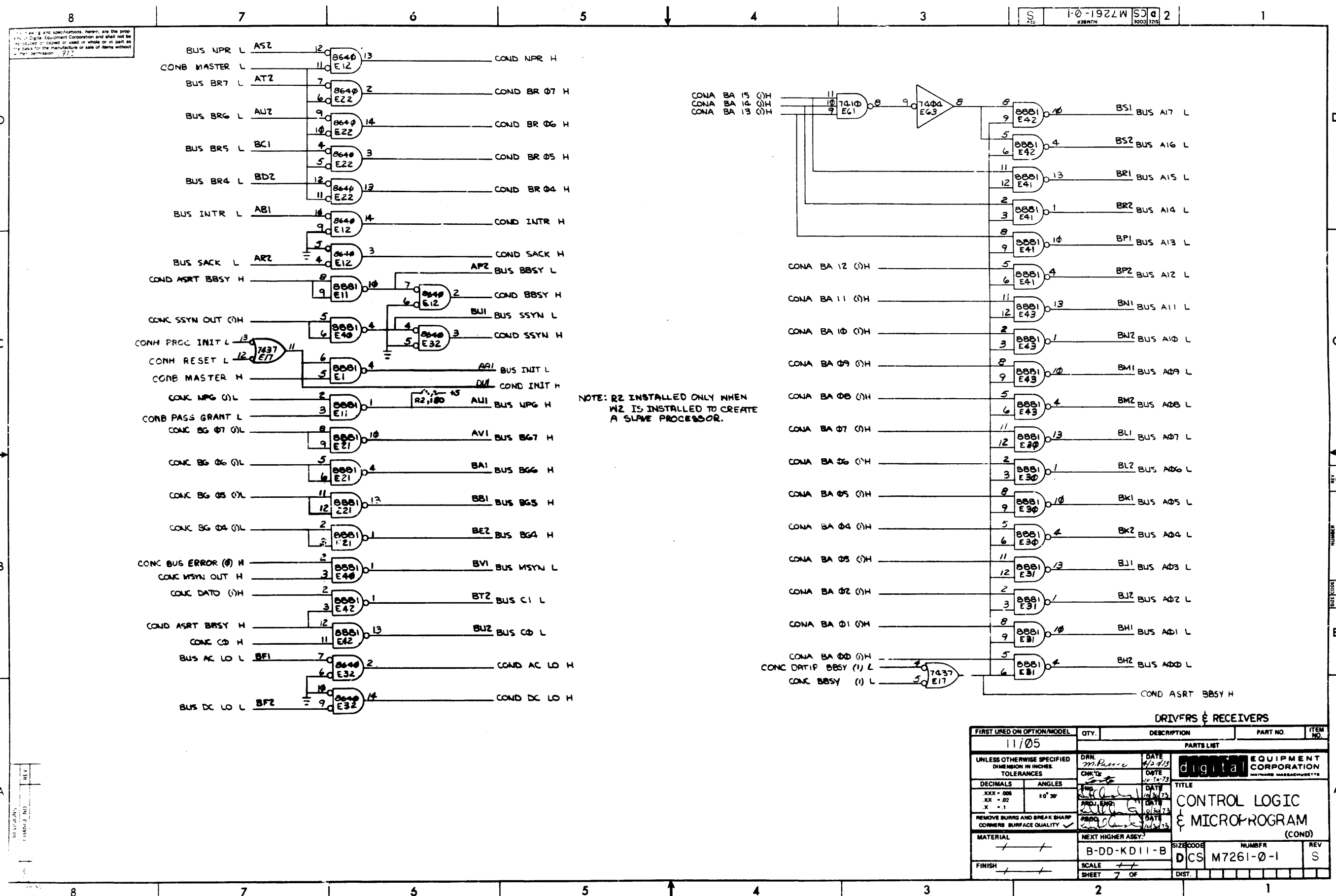
1-0-1922W SCI 2



FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	ITEM NO.
11/05				

UNLESS OTHERWISE SPECIFIED		DIMENSION IN INCHES	
DECIMALS	ANGLES	DATE	DATE
XXX - .005	10° 30'	1/23/73	1/23/73
XX - .02		1/30/73	1/30/73
X - .1		1/30/73	1/30/73

PRIORITY ARBITRATION			
MATERIAL	NEXT HIGHER ASSY	SIZE CODE	NUMBER
FINISH		DCS	M7261-0-1
		SCALE	REV.
		SHEET 6 OF 6	R

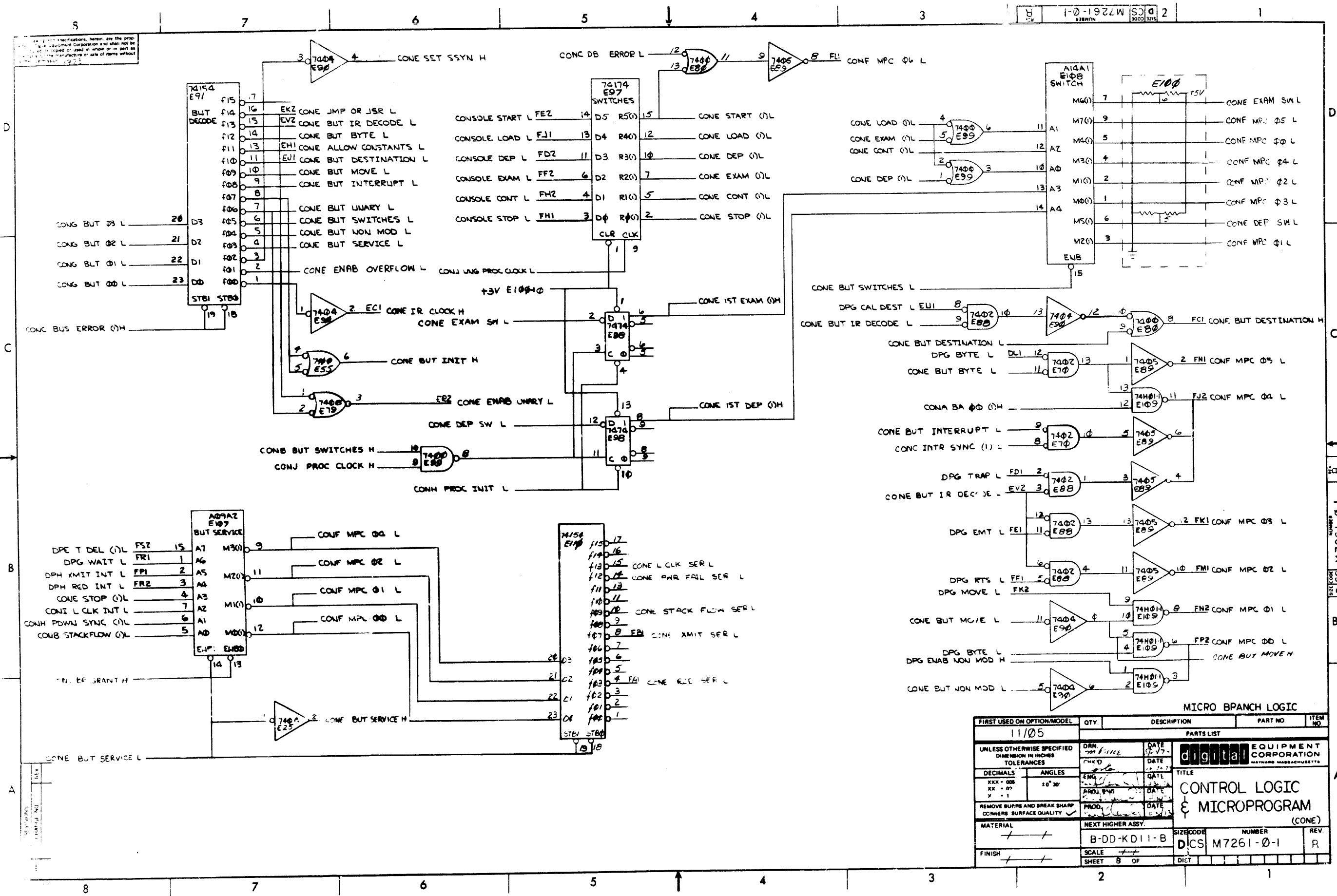


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NOTE: R2 INSTALLED ONLY WHEN W2 IS INSTALLED TO CREATE A SLAVE PROCESSOR.

DRIVERS & RECEIVERS

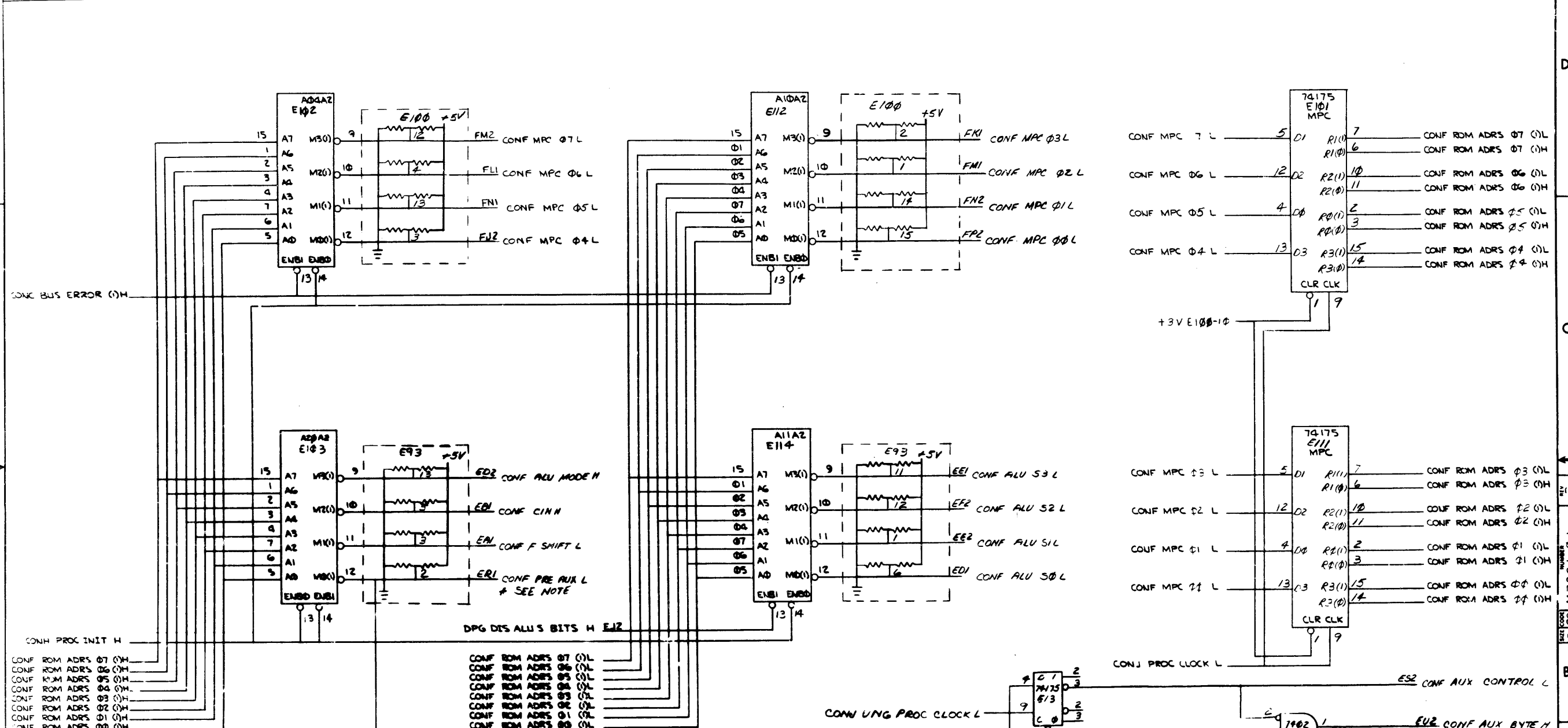
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		DRN <i>M. Rocco</i>	DATE 6/24/73	
DECIMALS	ANGLES	CHK'D <i>[Signature]</i>	DATE 10/30/72	
.XXX - .008	10° 30'	ENG <i>[Signature]</i>	DATE 10/30/72	
.XX - .02		PROJ. ENGR <i>[Signature]</i>	DATE 10/30/72	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. <i>[Signature]</i>	DATE 10/30/72	
MATERIAL		TITLE		
NEXT HIGHER ASSY		CONTROL LOGIC & MICROPROGRAM (COND)		
FINISH		B-DD-KD11-B	SIZE CODE	NUMBR
SCALE		DCS	M7261-0-1	REV
SHEET 7 OF		S		



FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DATE	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	DATE	MAYHARD MASSACHUSETTS	
XXX - 000	10° 30'	DATE	TITLE	
XX - 00		DATE	CONTROL LOGIC & MICROPROGRAM (CONE)	
Y - 1		DATE		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD.	DATE	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
+	B-DD-KD11-B	DCS	M7261-0-1	R
FINISH	SCALE	SHEET	OF	
+	8	8		

PART NO. M7261-0-1

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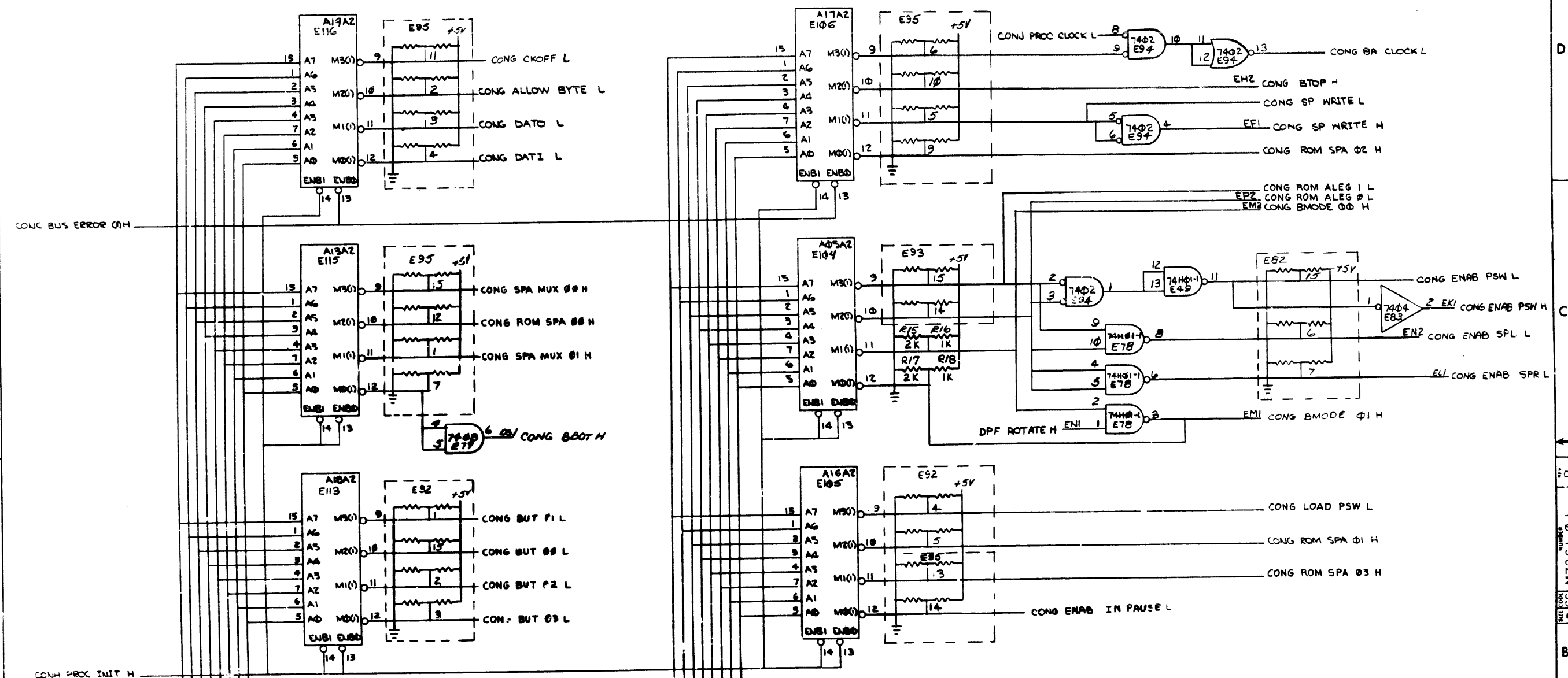


NOTE: AUX CONTROL IS ASSERTED ONE MICROSTEP EARLIER THAN IN 7704 REV C AND E. THIS PIN (E103 PIN 12) CONNECTS TO ROM 23-A10A1 ON THE M7260 MODULE WHICH PREVIOUSLY CONNECTED TO CONJ CROFF L. THIS ETCH REV DOES NOT EVER SHUT ITS CLOCK OFF TO PERFORM AN AUX CONTROL.

REV. 10/73

MICRO PC				
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. R. R.</i>	DATE <i>5/20/73</i>		
DECIMALS ANGLES	CHK'D <i>[Signature]</i>	DATE <i>10-30-72</i>		
XXX - 005 XX - 02 X - 1	±0° 30'	DATE <i>01/27/73</i>	CONTROL LOGIC & MICROPROGRAM (CONF)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD <i>[Signature]</i>	DATE <i>10/24/73</i>		
MATERIAL	NEXT HIGHER ASSY:	SCALE	SIZE CODE	NUMBER
FINISH	B-DD-KD11-B	+	DCS	M7261-0-1
	SHEET 3 OF	DIST.		REV. R

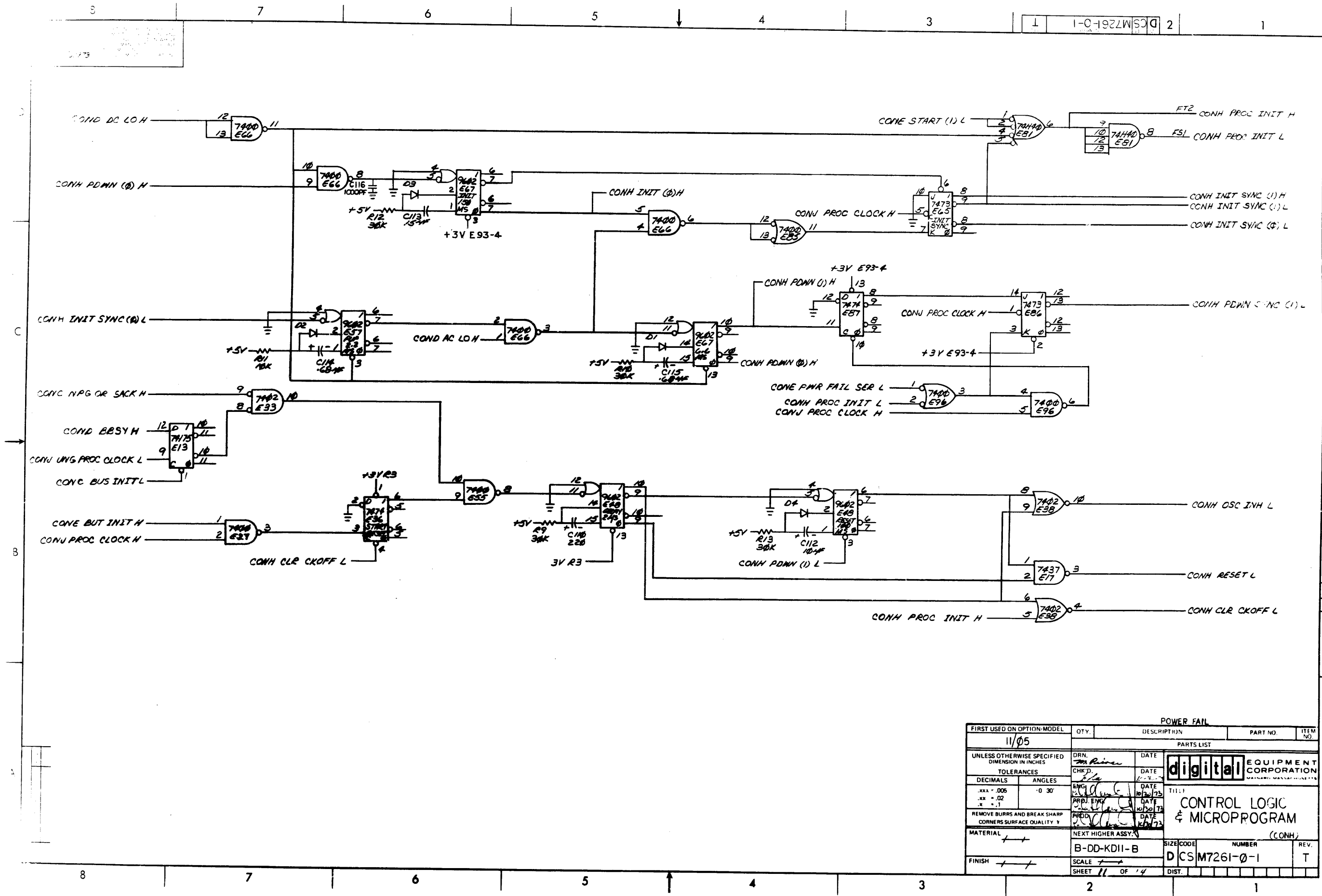
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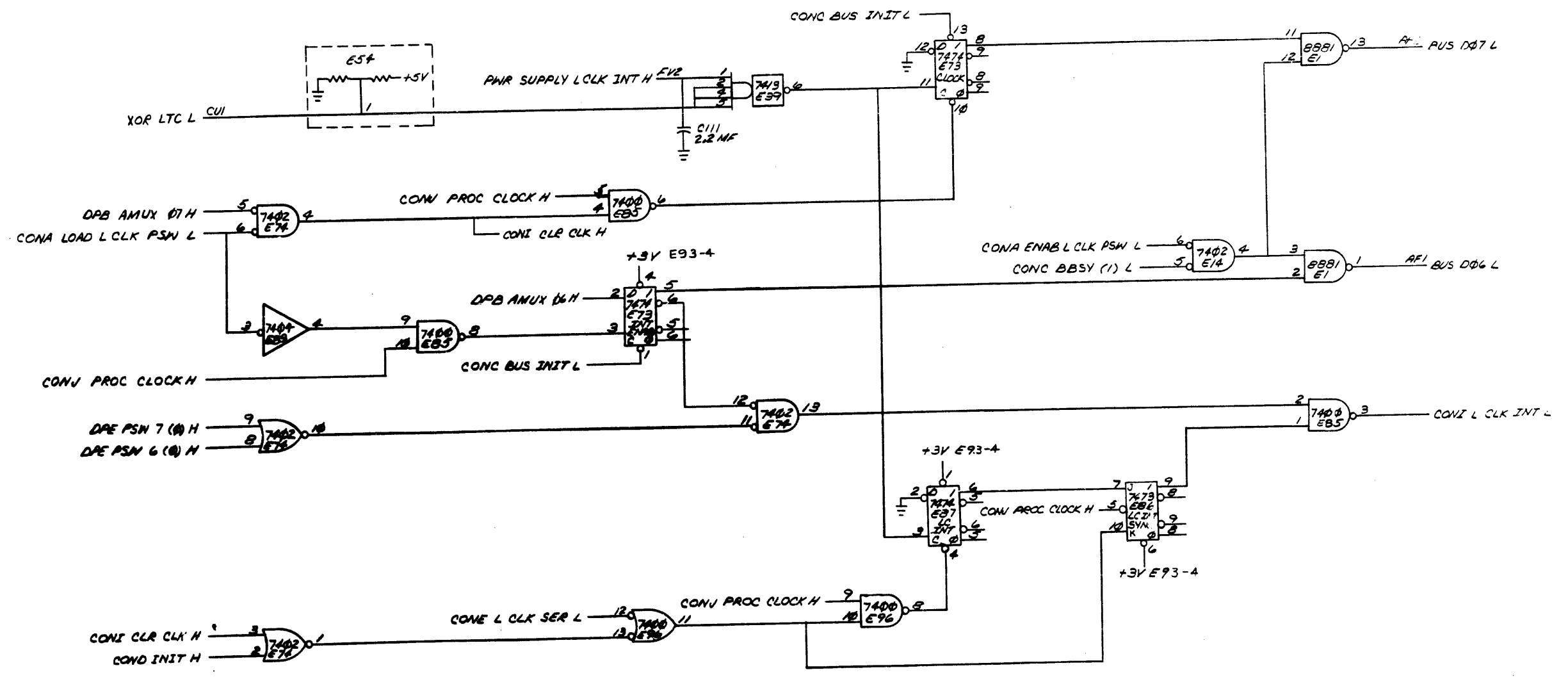
- | | |
|---------------------|---------------------|
| CONF ROM ADRS 07 0L | CONF ROM ADRS 07 0H |
| CONF ROM ADRS 06 0L | CONF ROM ADRS 06 0H |
| CONF ROM ADRS 05 0L | CONF ROM ADRS 05 0H |
| CONF ROM ADRS 04 0L | CONF ROM ADRS 04 0H |
| CONF ROM ADRS 03 0L | CONF ROM ADRS 03 0H |
| CONF ROM ADRS 02 0L | CONF ROM ADRS 02 0H |
| CONF ROM ADRS 01 0L | CONF ROM ADRS 01 0H |
| CONF ROM ADRS 00 0L | CONF ROM ADRS 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>In Line</i>	DATE 5/2/73	DIGITAL EQUIPMENT CORPORATION MAYFORD MASSACHUSETTS	
TOLERANCES	CHKD <i>gls</i>	DATE 10-24-73	TITLE CONTROL LOGIC & MICROPROGRAM	
DECIMALS ANGLES	ENG <i>gls</i>	DATE 6/14/73	REV. (CONG)	
XXX - .008 XX - .02 X - .1	±0° 30'	PROJ. ENGR. <i>gls</i>	DATE 6/14/73	
REMOVE BURRS AND BREAK SHARP CORNERS TO SURFACE QUALITY	PROC. <i>gls</i>	DATE 10/24/73		
MATERIAL	NEXT HIGHER ASSY		SIZE CODE	NUMBER
FINISH	B-DD-KD11-B		D CS	M7261-0-1
	SCALE		DIST.	REV.
	SHEET 10 OF			R

REV. 1-0-0-1 CS M7261-0-1



POWER FAIL			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
11/05			
PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. <i>M. Rice</i>	DATE 11-3-75	digital EQUIPMENT CORPORATION
TOLERANCES	CHK'D. <i>[Signature]</i>	DATE 11-3-75	
DECIMALS .005	ENG. <i>[Signature]</i>	DATE 10-20-75	CONTROL LOGIC & MICROPROGRAM
ANGLES .0 30	PRD. ENG. <i>[Signature]</i>	DATE 10-20-75	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	PRD. <i>[Signature]</i>	DATE 11-7-75	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER (CONH)
FINISH	B-DD-KD11-B	SCALE	REV. T
	SHEET 11 OF 14	DIST.	



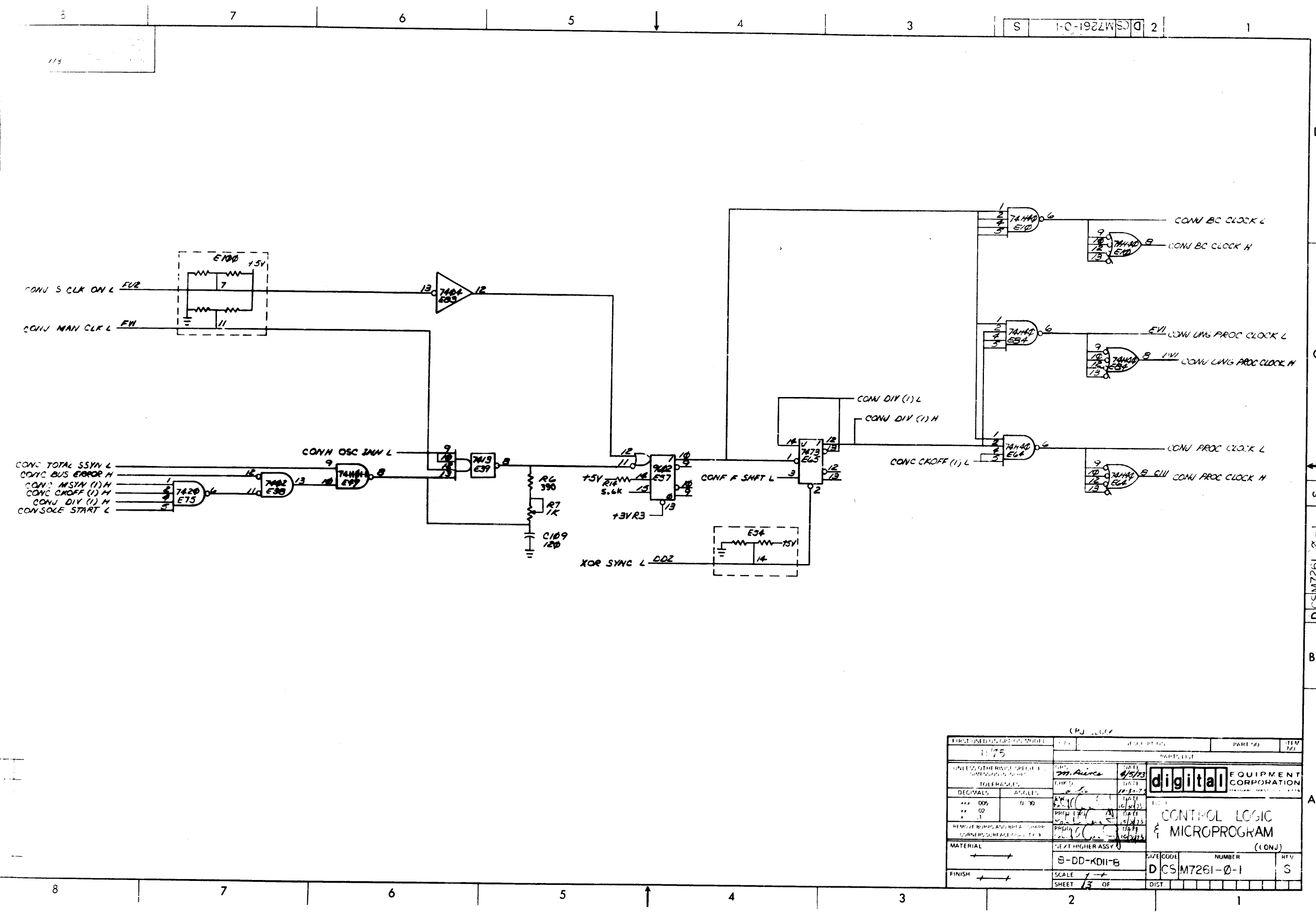
LINE CLOCK			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO
11/05			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES			
TOLERANCES			
DECIMALS	ANGLES	DATE	
.xxx ± .005	0 30'	11/05/73	
.xx ± .02		10/30/73	
.x ± .1		10/30/73	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1			
NEXT HIGHER ASSY.			
MATERIAL		SIZE CODE	
++		B-DD-KD11-B	
FINISH		NUMBER	
++		DCS M7261-0-1	
SCALE		REV.	
SHEET 12 OF 14		S	

digital EQUIPMENT CORPORATION

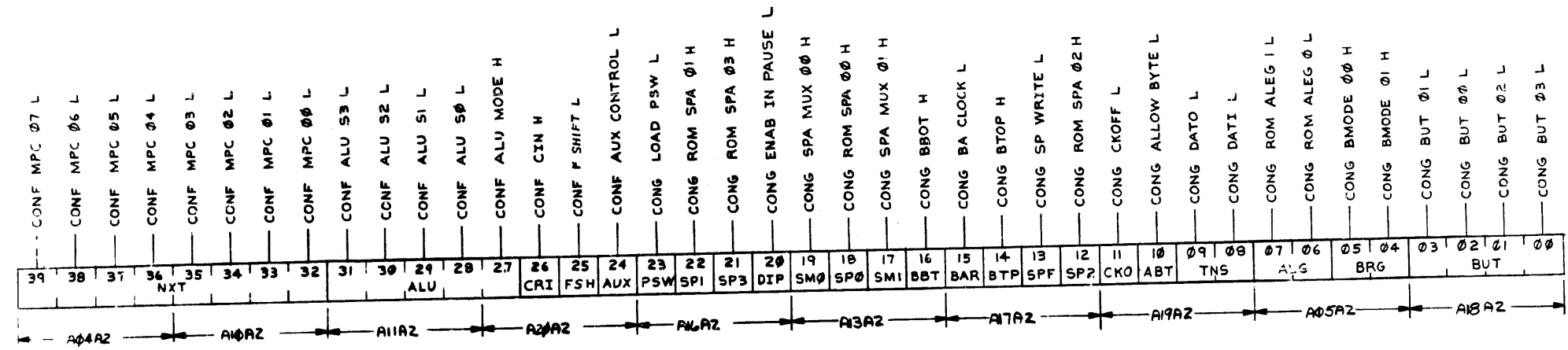
TITLE
CONTROL LOGIC & MICROPROGRAM (CONT)

SIZE CODE
DCS M7261-0-1

REV.
S



FIRST USED (REV) MODEL		DATE		PART NO		REV NO	
1:75		4/5/73		B-DD-KDII-B		S	
UNLESS OTHERWISE SPECIFIED		DATE		digital EQUIPMENT CORPORATION CONTROL LOGIC & MICROPROGRAM ((CONJ))			
TOLERANCES		DATE					
DECIMALS	ANGLES	DATE	DATE				
0.005	0.30	DATE	DATE				
0.02		DATE	DATE				
0.1		DATE	DATE				
REMOVE BUMPS AND IMPA... CORNERS SURFACE... TEXT HIGHER ASSY		DATE					
MATERIAL		SCALE		SIZE CODE		NUMBER	
+		1:1		D CS M7261-0-1		S	
FINISH		SHEET		DIST.			
		OF 3					



	31	30	29	28	27
AL	L	L	L	L	H
AA	L	L	L	L	L
AB	L	L	L	L	L
AB	L	L	L	L	L
0	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
-!	L	L	L	L	L
A-I	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

26	CRI
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
LOAD	H	H
SLEFT	L	L
SRIGHT	L	L
HOLD	L	L

03	02	01	00	BUT
NON	L	L	L	L
JMP/JSR	L	L	L	L
IR DECODE	L	L	L	L
BYTE	L	L	L	L
CONST	L	L	L	L
DEST	L	L	L	L
MOV	L	L	L	L
INTR	L	L	L	L
INIT	L	L	L	L
UNARY	L	L	L	L
SWITCHES	L	L	L	L
NON MOD	L	L	L	L
SERVICE	L	L	L	L
SSYNC	L	L	L	L
ENOVFLO	L	L	L	L
IR CLK	L	L	L	L

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
NONE	L	L
DATI	L	L
DATO	H	H

24	AUX
OFF	L
ON	H

19	17	SM0	SM1
ROM	L	L	L
IRS	L	L	L
IRD	L	L	L
BA	L	L	L

15	BAR
HOLD	L
LOAD	H

11	CKO
OFF	L
ON	H

07	06	ALG
SP	L	L
NULL	L	L
SPR	L	L
PSW	L	L

CONTROL STORE WORD FORMAT

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	CHG'D	DATE	MAYNARD MASSACHUSETTS	
ANGLES	ENG	DATE	TITLE	
XXX - 006	PROJ ENG	DATE	CONTROL LOGIC & MICROPROGRAM	
XX - 02	PRD	DATE	SIZE CODE	
X - 1	PHDU	DATE	NUMBER	
REMOVE BURNS AND BREAK SHARP CORNERS SURFACE QUALITY			REV	
MATERIAL	NEXT HIGHER ASSY		B-DD-KD11-B	
FINISH	SCALE		D CS M7261-0-1 R	
	SHEET 14 OF		DIST	

A07A1

27-JUL-72

23-A07A1

ROM LISTING 47261-8 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

EDCBA

DATA

```

000 0 0000 11111111 377
001 1 00001 11111111 377
002 2 00010 11111111 377
003 3 00011 11111111 377
004 4 00100 01111110 176
005 5 00101 11111111 377
006 6 00110 01111011 173
007 7 00111 11111111 377
010 8 01000 00111101 075
011 9 01001 10111111 277
012 10 01010 01111111 177
013 11 01011 11111111 377
014 12 01100 11111111 377
015 13 01101 11111111 377
016 14 01110 01111111 177
017 15 01111 11111111 377
020 16 10000 01010111 127
021 17 10001 11011111 337
022 18 10010 01100111 147
023 19 10011 11101111 357
024 20 10100 01011111 137
025 21 10101 11011111 337
026 22 10110 01101111 137
027 23 10111 11101111 357
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

```

```

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

```

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   DECIMAL   ZOCBA   *****   OCTAL
      ADDRESS 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, BAR
LCLK ,TRANIN BA=177546
LCLK ,TRANIN, BAR
GEN REG, ,TRANIN BA=1777XX
GEN REG ,TRANIN, BAR
ODD BYTE ADDRESS (LCLK/TK/TP)

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

```

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	EOCBA	OCTAL DATA
000	0	00000	1111111
001	1	00001	1111111
002	2	00010	1111111
003	3	00011	1111111
004	4	00100	1111111
005	5	00101	1111111
006	6	00110	1111111
007	7	00111	1111111
010	8	01000	1111111
011	9	01001	1111111
012	10	01010	11110111
013	11	01011	11111111
014	12	01100	11111111
015	13	01101	11111111
016	14	01110	11110111
017	15	01111	11111111
020	16	10000	11111111
021	17	10001	11111111
022	18	10010	11011111
023	19	10011	11111111
024	20	10100	11101111
025	21	10101	11111111
026	22	10110	10111111
027	23	10111	11111111
030	24	11000	11111111
031	25	11001	11111111
032	26	11010	11111111
033	27	11011	11111111
034	28	11100	11111111
035	29	11101	11111111
036	30	11110	11111111
037	31	11111	11111111

UART RCD INT MPC=64

UART XMIT INT MPC=60

ERT=1A STACK FLOW MPC=46

PWR FAIL MPC=43

LINE CLK INT MPC=42

*****(A(PIN #10) IS CONN 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

```

      /I =Y8 (PIN #8) CONF MPC 05 L
      O/I =Y7 (PIN #7) CONF EXAM SW L
      **/I =Y6 (PIN #6) CONF DEP SW L
      ***/I =Y5 (PIN #5) CONF MPC 00 L
      ****/I =Y4 (PIN #4) CONF MPC 04 L
      *****/I =Y3 (PIN #3) CONF MPC 01 L
      *****/I =Y2 (PIN #2) CONF MPC 02 L
      *****/I =Y1 (PIN #1) CONF MPC 03 L
      *****
      OCTAL
      ADDRESS DATA
      000 0 00000 11110000 370 CONTINUE
      001 1 00001 11110011 373 TWO SW =CONT,DEP
      002 2 00010 11110011 373 TWO SW EXAM,CONT
      003 3 00011 11110011 373 TWO SW LOAD,CONT
      004 4 00100 11110011 373 NO SW
      005 5 00101 11001010 312 DEP SW1 GOTO 313
      006 6 00110 10101000 256 EXAM GOTO TO 317
      007 7 00111 11101110 356 LOAD GOTO TO 311
      010 8 01000 11110000 370 CONT=CLR EXAM
      011 9 01001 11110011 373 TWO SW =CONT,DEP
      012 10 01010 11101011 353 TWO SW EXAM,CONT
      013 11 01011 11101011 353 TWO SW LOAD,CONT
      014 12 01100 10111011 273 NO SW 1ST EXAM
      015 13 01101 11001010 312 DEP SW1
      016 14 01110 10101100 254 EXAM AND 1ST EXAM 323
      017 15 01111 11101110 356 LOAD GOTO 311
      020 16 10000 11110000 370 CONT=CLR DEP
      021 17 10001 11110011 373 TWO SW =CONT,DEP
      022 18 10010 11110011 373 TWO SW EXAM,CONT
      023 19 10011 11011011 333 TWO SW LOAD,CONT
      024 20 10100 11011011 333 NO SW 1ST DEP
      025 21 10101 11011010 332 DEP SW2 GOTO 312
      026 22 10110 10101000 256 EXAM,1ST DEP 317
      027 23 10111 11101110 356 LOAD GOTO 311
      030 24 11000 00000100 004
      031 25 11001 00000000 000
      032 26 11010 00000000 000
      033 27 11011 00000000 000
      034 28 11100 00000000 000
      035 29 11101 00000000 000
      036 30 11110 00000000 000
      037 31 11111 00000000 000
      *****
      *****/I A(PIN #10) IS CONE LOAD (1)L ,AND, DEP (1)L ,BAR
      *****/I B(PIN #11) IS CONE LOAD (1)L ,AND, EXAM (1)L ,BAR
      ***/I C(PIN #12) IS CONE CONT (1)L
      O/I D(PIN #13) IS CONE 1ST EXAM (1)H
      /I E(PIN #14) IS CONE 1ST DEP (1)H
  
```


706

ROM LISTING M7261-8 REV A

AB9A8 87 JUL 72 250001A2

/(B14 (PIN # 9) CONC SET 00 07 L
/(B18 (PIN #10) CONC SET 00 06 L
/(B12 (PIN #11) CONC SET 00 05 L
/(B16 (PIN #12) CONC SET 00 04 L
OCVAL
DATA

DECIMAL ADDRESS	HEX ADDRESS	DATA
139	01000000	007
140	01000000	013
141	01000010	007
142	01000011	017
143	01000100	007
144	01000101	013
145	01000110	007
146	01000111	017
147	01001000	007
148	01001001	013
149	01001010	007
150	01001011	017
151	01001100	007
152	01001101	013
153	01001110	007
154	01001111	017
155	01010000	007
156	01010001	013
157	01010010	007
158	01010011	017
159	01010100	007
160	01010101	013
161	01010110	007
162	01010111	017
163	01011000	007
164	01011001	013
165	01011010	007
166	01011011	017
167	01011100	007
168	01011101	013
169	01011110	007
170	01011111	017

/(B14 (PIN # 9) IS CONC BR 07 (1) L
/(B18 (PIN #10) IS CONC BR 06 (1) L
/(B12 (PIN #11) IS CONC BR 05 (1) L
/(B16 (PIN #12) IS CONC BR 04 (1) L
OCVAL
DATA

DECIMAL ADDRESS	HEX ADDRESS	DATA
147	01100000	017
148	01100001	013
149	01100010	007
150	01100011	017
151	01100100	007
152	01100101	013
153	01100110	007
154	01100111	015
155	01101000	007
156	01101001	017
157	01101010	007
158	01101011	017
159	01101100	007
160	01101101	013
161	01101110	016
162	01101111	007
163	01110000	013
164	01110001	007
165	01110010	013
166	01110011	007
167	01110100	013
168	01110101	007
169	01110110	013
170	01110111	007
171	01111000	013
172	01111001	007
173	01111010	017
174	01111011	007
175	01111100	013
176	01111101	007
177	01111110	013
178	01111111	017

/(A (PIN #05) 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 #08) IS CONC BR 05 (1) L
/(E (PIN #09) IS CONC BR 04 (1) L
/(F (PIN #10) IS DPE PSW 07 (0) H
/(G (PIN #11) IS DPE PSW 06 (0) H
/(H (PIN #12) IS DPE PSW 05 (0) H

M7261-8 REV A

7 cont

/(BY4 (PIN # 9) Y4
 /(BY3 (PIN #10) Y3
 /(BY2 (PIN #11) Y2
 /(BY1 (PIN #12) Y1
 OCTAL
 DATA

OCTAL ADDRESS	DECIMAL ADDRESS	HEX/OCTAL DATA
000	0	00000000
001	1	00000001
002	2	00000010
003	3	00000011
004	4	00000100
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

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

 *****/(A(PIN #05) IS CONA BA 02 (1)H
 *****/(B(PIN #76) IS CONA BA 01 (1)H
 *****/(C(PIN #07) IS CONA BA 03 (1)H
 *****/(D(PIN #04) IS CONA BA 03 (1)H
 *****/(E(PIN #03) IS CONA BA 04 (1)H
 *****/(F(PIN #02) IS CONA BA 05 (1)H
 *****/(G(PIN #01) IS CONA BA 07 (1)H
 *****/(H(PIN #15) IS CONA BA 06 (1)H


```

OCTAL      DECIMAL      HGFEDCBA
ADDRESS      ADDRESS
200      128      10000000
201      129      10000000
202      130      10000001
203      131      10000011
204      132      10000100
205      133      10000101
206      134      10000110
207      135      10000111
210      136      10000000
211      137      10000001
212      138      10000010
213      139      10000011
214      140      10000100
215      141      10000101
216      142      10000110
217      143      10000111
218      144      10010000
221      145      10010010
222      146      10010011
223      147      10010011
224      148      10010100
225      149      10010101
226      150      10010110
227      151      10010111
230      152      10011000
231      153      10011001
232      154      10011010
233      155      10011011
234      156      10011100
235      157      10011101
236      158      10011110
237      159      10011111
    
```

```

//1 0Y4 (PIN # 9) Y4
//1 0Y2 (PIN #10) Y2
//1 0Y2 (PIN #11) Y2
//1 0Y2 (PIN #12) Y2
//1 0Y2 (PIN #13) Y2
//1 0Y5 (PIN #13) Y5
//1 0Y5 (PIN #14) Y5
//1 0Y5 (PIN #15) Y5
//1 0Y5 (PIN #16) Y5
//1 0Y5 (PIN #17) Y5
//1 0Y5 (PIN #18) Y5
//1 0Y5 (PIN #19) Y5
//1 0Y5 (PIN #20) Y5
//1 0Y5 (PIN #21) Y5
//1 0Y5 (PIN #22) Y5
//1 0Y5 (PIN #23) Y5
//1 0Y5 (PIN #24) Y5
//1 0Y5 (PIN #25) Y5
//1 0Y5 (PIN #26) Y5
//1 0Y5 (PIN #27) Y5
//1 0Y5 (PIN #28) Y5
//1 0Y5 (PIN #29) Y5
//1 0Y5 (PIN #30) Y5
//1 0Y5 (PIN #31) Y5
//1 0Y5 (PIN #32) Y5
//1 0Y5 (PIN #33) Y5
//1 0Y5 (PIN #34) Y5
//1 0Y5 (PIN #35) Y5
//1 0Y5 (PIN #36) Y5
//1 0Y5 (PIN #37) Y5
//1 0Y5 (PIN #38) Y5
//1 0Y5 (PIN #39) Y5
//1 0Y5 (PIN #40) Y5
//1 0Y5 (PIN #41) Y5
//1 0Y5 (PIN #42) Y5
//1 0Y5 (PIN #43) Y5
//1 0Y5 (PIN #44) Y5
//1 0Y5 (PIN #45) Y5
//1 0Y5 (PIN #46) Y5
//1 0Y5 (PIN #47) Y5
//1 0Y5 (PIN #48) Y5
//1 0Y5 (PIN #49) Y5
//1 0Y5 (PIN #50) Y5
//1 0Y5 (PIN #51) Y5
//1 0Y5 (PIN #52) Y5
//1 0Y5 (PIN #53) Y5
//1 0Y5 (PIN #54) Y5
//1 0Y5 (PIN #55) Y5
//1 0Y5 (PIN #56) Y5
//1 0Y5 (PIN #57) Y5
//1 0Y5 (PIN #58) Y5
//1 0Y5 (PIN #59) Y5
//1 0Y5 (PIN #60) Y5
//1 0Y5 (PIN #61) Y5
//1 0Y5 (PIN #62) Y5
//1 0Y5 (PIN #63) Y5
//1 0Y5 (PIN #64) Y5
//1 0Y5 (PIN #65) Y5
//1 0Y5 (PIN #66) Y5
//1 0Y5 (PIN #67) Y5
//1 0Y5 (PIN #68) Y5
//1 0Y5 (PIN #69) Y5
//1 0Y5 (PIN #70) Y5
//1 0Y5 (PIN #71) Y5
//1 0Y5 (PIN #72) Y5
//1 0Y5 (PIN #73) Y5
//1 0Y5 (PIN #74) Y5
//1 0Y5 (PIN #75) Y5
//1 0Y5 (PIN #76) Y5
//1 0Y5 (PIN #77) Y5
//1 0Y5 (PIN #78) Y5
//1 0Y5 (PIN #79) Y5
//1 0Y5 (PIN #80) Y5
//1 0Y5 (PIN #81) Y5
//1 0Y5 (PIN #82) Y5
//1 0Y5 (PIN #83) Y5
//1 0Y5 (PIN #84) Y5
//1 0Y5 (PIN #85) Y5
//1 0Y5 (PIN #86) Y5
//1 0Y5 (PIN #87) Y5
//1 0Y5 (PIN #88) Y5
//1 0Y5 (PIN #89) Y5
//1 0Y5 (PIN #90) Y5
//1 0Y5 (PIN #91) Y5
//1 0Y5 (PIN #92) Y5
//1 0Y5 (PIN #93) Y5
//1 0Y5 (PIN #94) Y5
//1 0Y5 (PIN #95) Y5
//1 0Y5 (PIN #96) Y5
//1 0Y5 (PIN #97) Y5
//1 0Y5 (PIN #98) Y5
//1 0Y5 (PIN #99) Y5
//1 0Y5 (PIN #100) Y5
    
```

12

17

```

240      160      10100000
241      161      10100001
242      162      10100010
243      163      10100011
244      164      10100100
245      165      10100101
246      166      10100110
247      167      10100111
250      168      10101000
251      169      10101001
252      170      10101010
253      171      10101011
254      172      10101100
255      173      10101101
256      174      10101110
257      175      10101111
260      176      10110000
261      177      10110001
262      178      10110010
263      179      10110011
264      180      10110100
265      181      10110101
266      182      10110110
267      183      10110111
270      184      10111000
271      185      10111001
272      186      10111010
273      187      10111011
274      188      10111100
275      189      10111101
276      190      10111110
277      191      10111111
    
```

```

//1 0Y5 (PIN #03) IS      CONA BA 02 (1)H
//1 0Y5 (PIN #06) IS      CONA BA 01 (1)H
//1 0Y5 (PIN #07) IS      CONA BA 00 (1)H
//1 0Y5 (PIN #04) IS      CONA BA 03 (1)H
//1 0Y5 (PIN #02) IS      CONA BA 04 (1)H
//1 0Y5 (PIN #01) IS      CONA BA 05 (1)H
//1 0Y5 (PIN #15) IS      CONA BA 06 (1)H
    
```

KN11=L LINE CLK CSR

KN11=L (ODD BYTE)

YKS TTY KEYBOARD CSR
 YPS PRINTER CSR
 YKB TTY KEYBOARD DBR
 YPB TTY PRINTER DBR
 YKS (ODD BYTE)
 YPS (ODD BYTE)
 YKB (ODD BYTE)
 YPB (ODD BYTE)
 SWITCH REGISTER

CONSOLE SW REG. (ODD 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

```

```

CYAL  ADDRESS  DECIMAL  ADDRESS  DECIMAL  HCFEDCBA
000  000  0  00000000
001  001  1  00000001
002  002  2  00000010
003  003  3  00000011
004  004  4  00000100
005  005  5  00000101
006  006  6  00000110
007  007  7  00000111
010  010  8  00001000
011  011  9  00001001
012  012 10  00001010
013  013 11  00001011
014  014 12  00001100
015  015 13  00001101
016  016 14  00001110
017  017 15  00001111
020  020 16  00010000
021  021 17  00010001
022  022 18  00010010
023  023 19  00010011
024  024 20  00010100
025  025 21  00010101
026  026 22  00010110
027  027 23  00010111
030  030 24  00011000
031  031 25  00011001
032  032 26  00011010
033  033 27  00011011
034  034 28  00011100
035  035 29  00011101
036  036 30  00011110
037  037 31  00011111

```

```

CYAL  DATA
000  014
001  014
002  014
003  014
004  014
005  014
006  014
007  014
010  014
011  014
012  014
013  014
014  014
015  014
016  014
017  014
020  014
021  014
022  014
023  014
024  014
025  014
026  014
027  014
030  014
031  014
032  014
033  014
034  014
035  014
036  014
037  014

```

```

/( 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

```

```

040  040 32  00100000
041  041 33  00100001
042  042 34  00100010
043  043 35  00100011
044  044 36  00100100
045  045 37  00100101
046  046 38  00100110
047  047 39  00100111
050  050 40  00101000
051  051 41  00101001
052  052 42  00101010
053  053 43  00101011
054  054 44  00101100
055  055 45  00101101
056  056 46  00101110
057  057 47  00101111
060  060 48  00110000
061  061 49  00110001
062  062 50  00110010
063  063 51  00110011
064  064 52  00110100
065  065 53  00110101
066  066 54  00110110
067  067 55  00110111
070  070 56  00111000
071  071 57  00111001
072  072 58  00111010
073  073 59  00111011
074  074 60  00111100
075  075 61  00111101
076  076 62  00111110
077  077 63  00111111

```

```

/( A(PIN #05) IS CONB STACKFLOW (1)L
/( B(PIN #06) IS CONH POWN SYNC (1)L
/( C(PIN #07) IS CONI LCLK INT (1)L
/( D(PIN #04) IS CONE STOP (1)L
/( E(PIN #03) IS DPH RCD INT (1)L
/( F(PIN #02) IS DPH XMIT INT (1)L
/( G(PIN #01) IS DPG WAIT L
/( H(PIN #15) IS DPE Y DEL (1)L

```



```

CCTAL ADDRESS     DECIMAL     ADDRESS     DATA
MPEDCBA
200     10000000
201     10000001
202     10000010
203     10000011
204     10000100
205     10000101
206     10000110
207     10000111
210     10001000
211     10001001
212     10001010
213     10001011
214     10001101
215     10001110
216     10001111
217     10010000
218     10010001
219     10010010
220     10010011
221     10010100
222     10010101
223     10010110
224     10010111
225     10011000
226     10011001
227     10011010
228     10011011
229     10011100
230     10011101
231     10011110
232     10011111
233     10011100
234     10011101
235     10011110
236     10011111
237     10011111

```

```

OCTAL     DATA
0000     0111
0001     0112
0010     0113
0011     0112
0012     0111
0013     0000
0014     0111
0015     0112
0016     0111
0017     0113
0018     0112
0019     0111
0020     0113
0021     0112
0022     0111
0023     0113
0024     0112
0025     0111
0026     0113
0027     0112
0028     0111
0029     0113
0030     0112
0031     0111
0032     0113
0033     0112
0034     0111
0035     0113
0036     0112
0037     0111
0038     0113
0039     0112
0040     0111
0041     0113
0042     0112
0043     0111
0044     0113
0045     0112
0046     0111
0047     0113
0048     0112
0049     0111
0050     0113
0051     0112
0052     0111
0053     0113
0054     0112
0055     0111
0056     0113
0057     0112
0058     0111
0059     0113
0060     0112
0061     0111
0062     0113
0063     0112
0064     0111
0065     0113
0066     0112
0067     0111
0068     0113
0069     0112
0070     0111
0071     0113
0072     0112
0073     0111
0074     0113
0075     0112
0076     0111
0077     0113
0078     0112
0079     0111
0080     0113
0081     0112
0082     0111
0083     0113
0084     0112
0085     0111
0086     0113
0087     0112
0088     0111
0089     0113
0090     0112
0091     0111
0092     0113
0093     0112
0094     0111
0095     0113
0096     0112
0097     0111
0098     0113
0099     0112
0100     0111
0101     0113
0102     0112
0103     0111
0104     0113
0105     0112
0106     0111
0107     0113
0108     0112
0109     0111
0110     0113
0111     0112
0112     0111
0113     0113
0114     0112
0115     0111
0116     0113
0117     0112
0118     0111
0119     0113
0120     0112
0121     0111
0122     0113
0123     0112
0124     0111
0125     0113
0126     0112
0127     0111
0128     0113
0129     0112
0130     0111
0131     0113
0132     0112
0133     0111
0134     0113
0135     0112
0136     0111
0137     0113
0138     0112
0139     0111
0140     0113
0141     0112
0142     0111
0143     0113
0144     0112
0145     0111
0146     0113
0147     0112
0148     0111
0149     0113
0150     0112
0151     0111
0152     0113
0153     0112
0154     0111
0155     0113
0156     0112
0157     0111
0158     0113
0159     0112
0160     0111
0161     0113
0162     0112
0163     0111
0164     0113
0165     0112
0166     0111
0167     0113
0168     0112
0169     0111
0170     0113
0171     0112
0172     0111
0173     0113
0174     0112
0175     0111
0176     0113
0177     0112
0178     0111
0179     0113
0180     0112
0181     0111
0182     0113
0183     0112
0184     0111
0185     0113
0186     0112
0187     0111
0188     0113
0189     0112
0190     0111
0191     0113
0192     0112
0193     0111
0194     0113
0195     0112
0196     0111
0197     0113
0198     0112
0199     0111
0200     0113

```

```

/( B4 (PIN 8) CONF MPC B4 L
/( B5 (PIN 9) CONF MPC B4 L
/( B6 (PIN 10) CONF MPC B4 L
/( B7 (PIN 11) CONF MPC B4 L
/( B8 (PIN 12) CONF MPC B4 L
OCTAL
DATA

```

[Handwritten signature/initials]
11

M7261-8 REV A

```

240     10100000     1001     STKFL
241     10100001     1001     PRRF
242     10100010     1001     STKFL
243     10100011     1011     LCLK
244     10100100     1001     STKFL
245     10100101     1001     PRRF
246     10100110     1001     STKFL
247     10100111     1001     RCD
248     10101000     1001     STKFL
249     10101001     1010     PRRF
250     10101010     1001     STKFL
251     10101011     1011     LCLK
252     10101100     1001     STKFL
253     10101101     1001     PRRF
254     10101110     1010     STKFL
255     10101111     1001     RCD
256     10110000     1001     STKFL
257     10110001     1001     PRRF
260     10110010     1010     STKFL
261     10110011     1011     LCLK
262     10110100     1001     STKFL
263     10110101     1001     PRRF
264     10110110     1010     STKFL
265     10110111     1001     RCD
266     10111000     1001     STKFL
267     10111001     1110     PRRF
270     10111010     1001     STKFL
271     10111011     1011     LCLK
272     10111100     1001     STKFL
273     10111101     1011     PRRF
274     10111110     1001     STKFL
275     10111111     1001     RCD
276     10111111     1001     STKFL
277     10111111     1001     PRRF
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357     10111111     1001     PRRF
358     10111111     1001     STKFL
359     10111111     1001     RCD

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/( A (PIN #05) IS CONB STACKFLOW (1)L
/( B (PIN #06) IS CONB PDWN SYNC (1)L
/( C (PIN #07) IS CONB LCLK INT (1)L
/( D (PIN #04) IS CONE STOP (1)L
/( E (PIN #03) IS DPH RCD INT (1)L
/( F (PIN #02) IS DPH XMIT INT (1)L
/( G (PIN #01) IS DPH WAIT (1)L
/( H (PIN #15) IS OPE Y DEL (1)L

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[Handwritten signature/initials]

AB9A2

27 JUL 72

23-AB9A2-0

ROM LISTING M7261-8 REV. A

/1 8V4 (PIN # 9) CONF MPC 84 L
 *1 8V8 (PIN #10) CONF MPC 81 L
 *1 *V2 (PIN #11) CONF MPC 82 L
 *1 *1 8V1 (PIN #12) CONF MPC 80 L

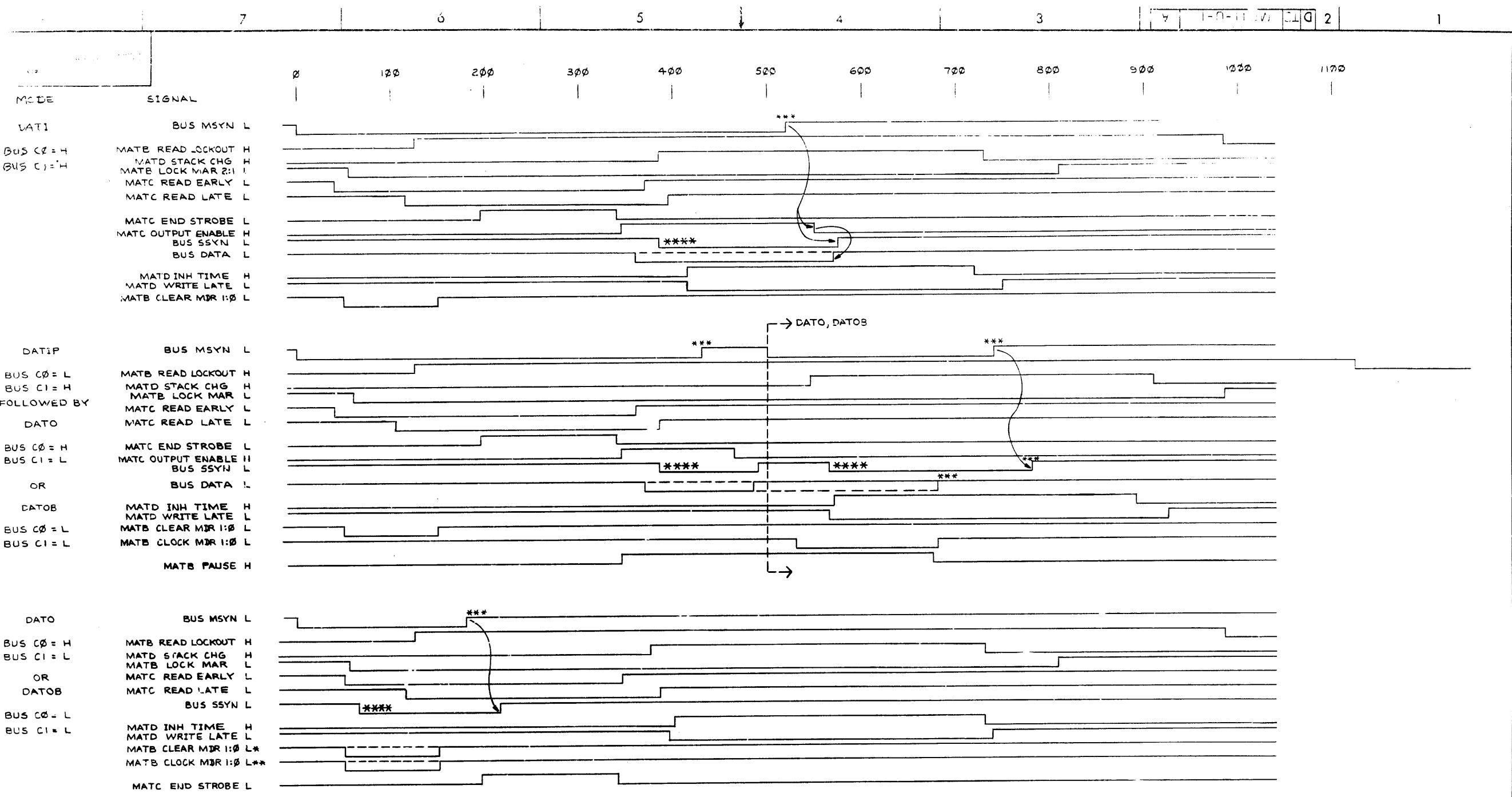
OCTAL ADDRESS	HEXDECIMAL	DATA	INSTR
300	11000000	011	STKPL
301	11000001	011	PHRF
302	11000010	011	STKPL
303	11000011	011	LCLK
304	11000100	011	STKPL
305	11000101	011	PHRF
306	11000110	011	STKPL
307	11000111	009	RCD
311	11010000	011	STKPL
312	11010001	011	PHRF
313	11010010	011	STKPL
314	11010011	011	LCLK
315	11010100	011	STKPL
316	11010101	011	PHRF
317	11010110	011	STKPL
318	11010111	009	RCD
320	11010000	011	STKPL
321	11010001	011	PHRF
322	11010010	011	STKPL
323	11010011	011	LCLK
324	11010100	011	STKPL
325	11010101	011	PHRF
326	11010110	011	STKPL
327	11010111	007	XMIT
330	11011000	011	STKPL
331	11011001	011	PHRF
332	11011010	011	STKPL
333	11011011	011	LCLK
334	11011100	011	STKPL
335	11011101	011	PHRF
336	11011110	011	STKPL
337	11011111	007	XMIT

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M7261-8 REV. A

340	11100000	011	STKPL
341	11100001	011	PHRF
342	11100010	011	STKPL
343	11100011	011	LCLK
344	11100100	011	STKPL
345	11100101	011	PHRF
346	11100110	011	STKPL
347	11100111	005	RCD
350	11101000	011	STKPL
351	11101001	011	PHRF
352	11101010	011	STKPL
353	11101011	011	LCLK
354	11101100	011	STKPL
355	11101101	011	PHRF
356	11101110	011	STKPL
357	11101111	005	RCD
360	11110000	011	STKPL
361	11110001	011	PHRF
362	11110010	011	STKPL
363	11110011	011	LCLK
364	11110100	011	STKPL
365	11110101	011	PHRF
366	11110110	011	STKPL
367	11110111	011	STOP
370	11111000	011	STKPL
371	11111001	011	PHRF

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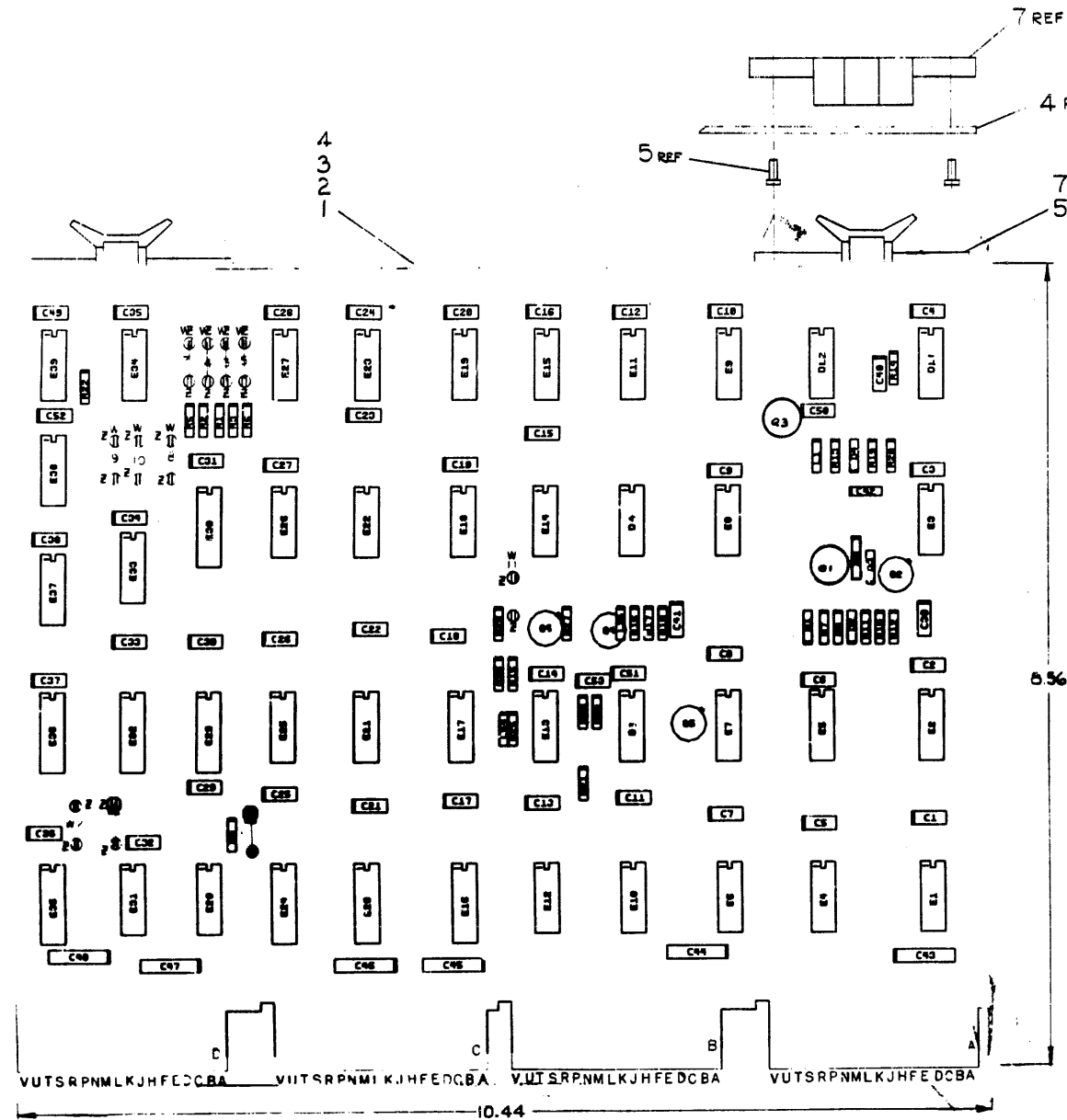
- NOTES:
- * IN THE DATOB MODE CLEAR MDR ONLY OCCURS IN THE BYTE NOT BEING ADDRESSED.
 - ** IN THE DATOB MODE CLOCK MDR ONLY OCCURS IN THE BYTE BEING ADDRESSED.
 - *** ACTUAL TIME DEPENDS ON BUS AND PROCESSOR DELAYS.
 - **** IN PARITY SYSTEMS BUS SSYN WILL BE 20 NS LATER THAN SHOWN FOR DATO-DATOB. BUS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

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MFII-U				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN <i>R. Davidson</i>	DATE 4-19-73	digital EQUIPMENT CORPORATION	
TOLERANCES	CHK'D <i>R. Davidson</i>	DATE 4/30/73	MATTAPAN, MASSACHUSETTS	
DECIMALS .005	ENG. <i>R. Davidson</i>	DATE 5/29/73	TITLE MFII-U	
ANGLES .0 30'	PROJ. ENG. <i>R. Davidson</i>	DATE 5/29/73	TIMING DIAGRAM	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	PROD. <i>R. Davidson</i>	DATE 6/11/73	(UNIBUS INTERFACE)	
MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
	B-DD-MFII-U	D TD	MFII-U-1	A
FINISH	SCALE 1/1	SHEET 1 OF 1	DIST.	

D
C
A
B
MFII-U-1
D TD

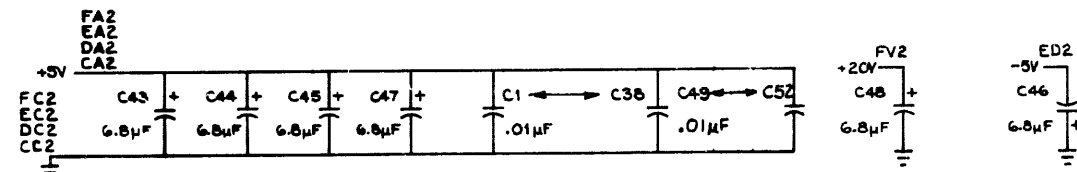
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NOTES: 1. UNLESS OTHERWISE SPECIFIED:
RESISTANCE IS IN OHMS,
CAPACITANCE IS IN MICROFARADS.



REF	XY COORDINATE	HOLE LOCATION	K-CO-M8293-0-4	1
REF	ASSY/DRILLING HOLE LAYOUT		D-AH-M8293-0-5	2
REF	MODULE ECO HISTORY		B-MH-M8293-0-6	3
1	ETCHED CIRCUIT BOARD		5010473	4
8	EYELET GS-4-7		9006732	5
22	SPLIT LUGS		9006735	6
4	HANDLE FLIP-CHIP MAGENTA		9008337-6	7
2	C40, C41	CAP 82 PF .00V ±5% DM	1000015	8
1	C39	CAP 1000 PF 100V ±5% DM	1000042	9
43	C13 → 38, 42, 49-52	CAP .01 μF 50V ±20%	1001610	10
6	C43 → 48	CAP 6.8 μF 35V ±10% 5, TANT	1005306	11
1	D3	DIODE 1N746A 3.6V ±5% ZENER	1104860	12
3	D1, 2, 4	DIODE D672	1105275	13
3	R13, 14, 18	RES 100 1/4 W 5%	1300219	14
1	R17	RES 120 1/4 W 5%	1300247	15
1	R9	RES 750 1/2 W 5%	1300354	16
3	R16, R25, R27	RES 1K 1/4 W 5%	1300365	17
10	R1 → 6, 10, 21, 15, 22	RES 2K 1/4 W 5%	1302338	18
3	R7, 11, 8	RES 20K 1/4 W 5%	1302391	19
2	R19, 12	RES 560 1/4 W 5%	1301830	20
1	R20	RES 33K 1/4 W 10%	1300510	21
1	Q1	TRANSISTOR DEC 6534 D	1503409	22
5	Q2, 3, 4, 5, 6	TRANSISTOR DEC 3003 B	1503100	23
2	L1, 2	INDUCTOR 00 μH	1610662	24
4	DL1, 2, 3, 4	DELAY LINE 250 NS, TAPPED	1611243	25
1	E25	IC DEC 74H40	1905536	26
5	E20, 24, 16, 36, 35	IC DEC 7475	1909050	27
8	E15, 6, 26, 37, 38	IC DEC 74H00	903056	28
8	E14, 19, 1, 39, 8	IC DEC 74H10	909057	29
2	E21, 33	IC DEC 74H50	1909060	30
2	E11, 25	IC DEC 74H53	909062	31
2	E23, 27	IC DEC 74H55	1909063	32
6	E31, 4, 6, 17, 7, 5	IC DEC 3540	11443	33
4	E9, 22, 13, 34	IC DEC 74H04	90993	34
1	E30	IC DEC 74B3	1309932	35
2	E29, 32	IC DEC 74B5	910224	36
2	E3, 10	IC DEC 8885	1910649	37
2	E2, 12	IC DEC 7427	310879	38
2	R23, 24	RES 330 1/4 W 5%	1300295	39
1	C53	CAP 120 PF 100V ±5% DM	1000018	40
1	C54	CAP 220 PF 100V ±5% DM	1000021	41
1	R26	RES 24K 1/4 W 5%	1303177	42
1	R28	RES 511 1/4 W 1%	1302411	43
6	W1, W3 → W7	WIRE JUMPER	3107560-01	44

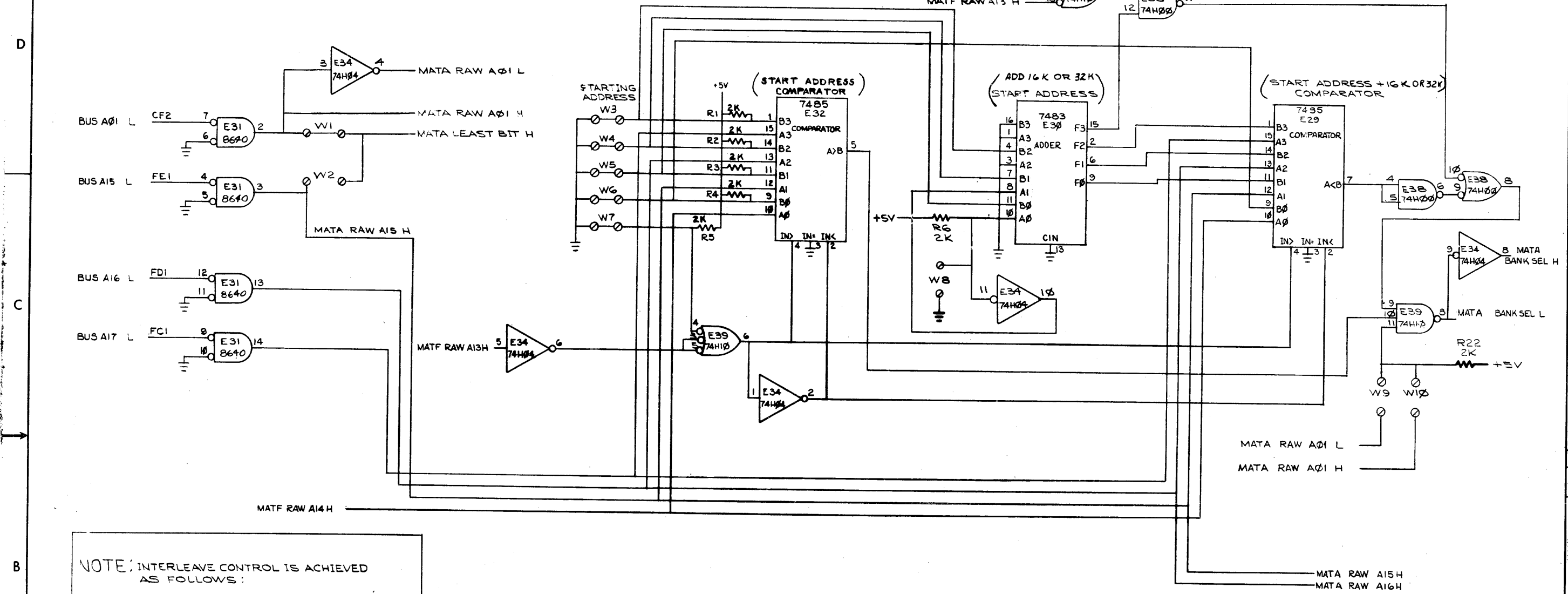
7483	12	5
7485	8	10
380	1	8
7475	12	5
IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		



FIRST USED ON OPTION MODEL		PARTS LIST	
MM11-U		ETCH BOARD REV C	
DRG. B. VALENTINE	DATE 1-23-73	EQUIPMENT CORPORATION MAYFIELD MASSACHUSETTS	
CHKD. W. Major	DATE 5/10/73	TITLE 16K UNIBUS TIMING	
APP. [Signature]	DATE 5/17/73	NEXT HIGHER ASSY B-DD-MM11-U	
DEC NO.	EIA NO.	DEC NO.	EIA NO.
SCALE		D/C S M8293-0-1	
SHEET 2 OF 10		REV. E	

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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

W9 IN - ONE MEMORY
W10 OUT - ONE MEMORY

W9 OUT - THE OTHER MEMORY
W10 IN - THE OTHER MEMORY

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 (1000000h)

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	1 OUT	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

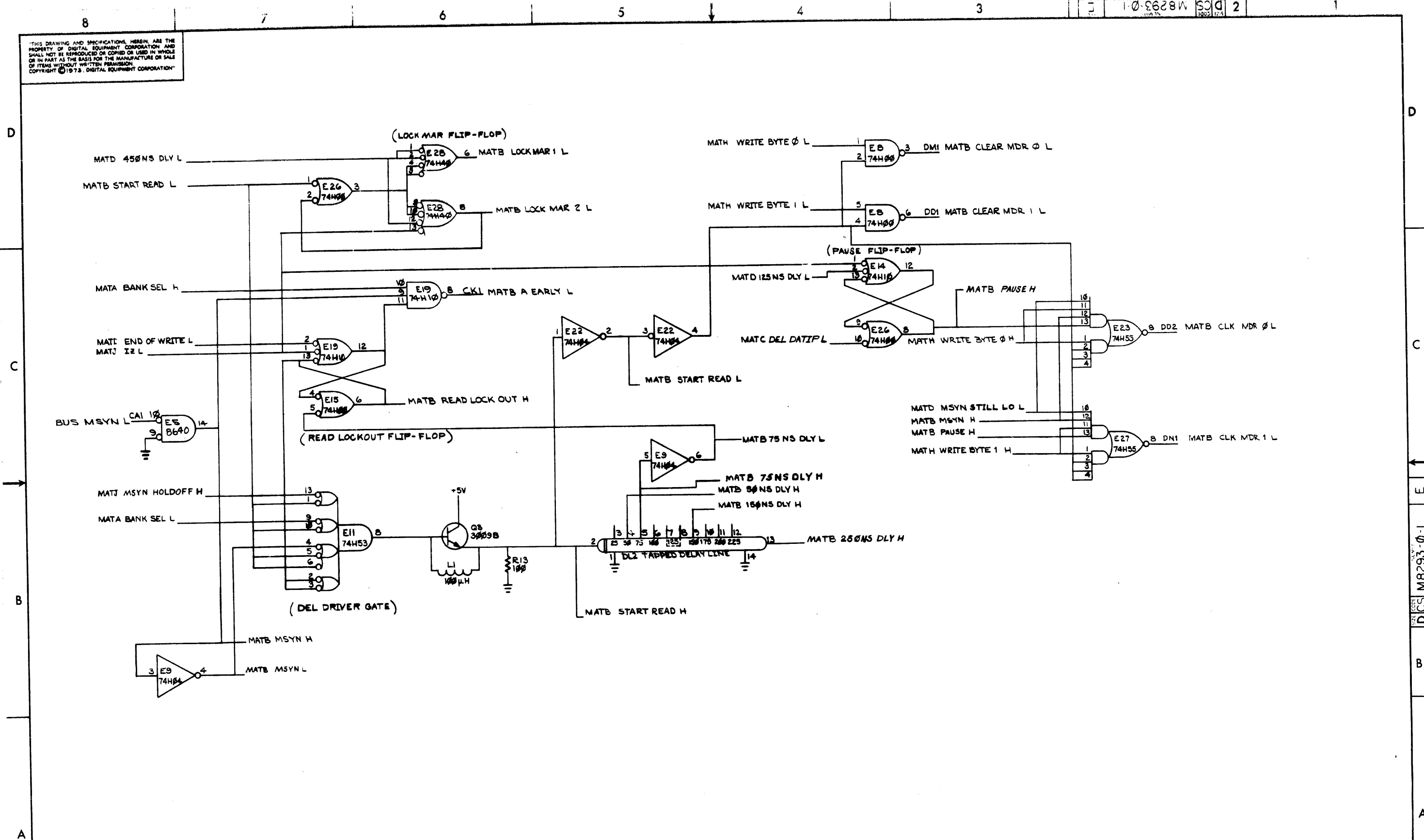
* THE MEMORY WILL NOT RESPOND TO BUS ADDRESSES BETWEEN 124-128K

	W3	W4	W5	W6	W7	
420000 (68K)	0	0	0	1	0	517776
440000 (72K)	0	0	0	1	1	537776
460000 (76K)	1	0	0	1	0	557776
500000 (80K)	1	0	0	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

DEVICE SELECTION LOGIC

REVISIONS		
CHK	CHANGE NO	REV.

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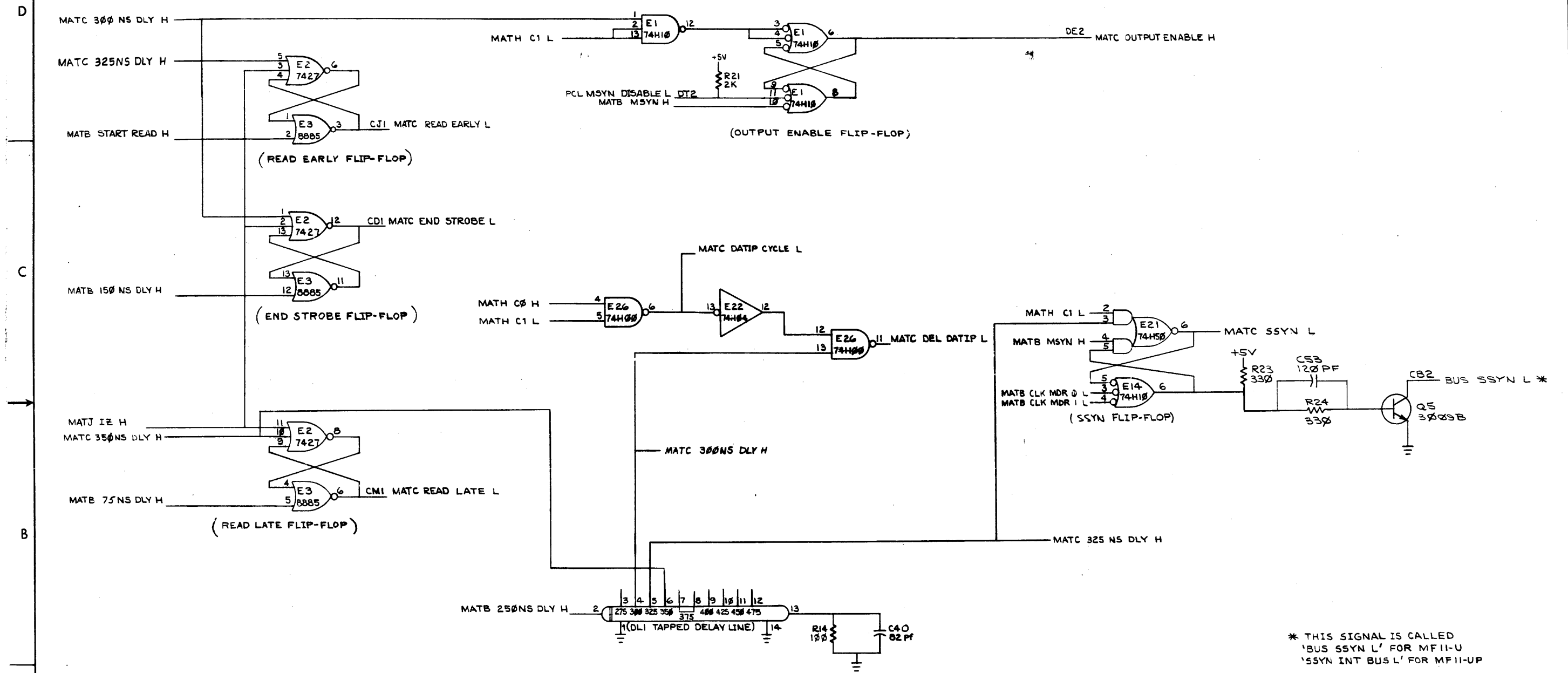
READ START TIMING

REVISIONS		
CHK	CHANGE NO	REV

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

DCS M8293-0-1

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

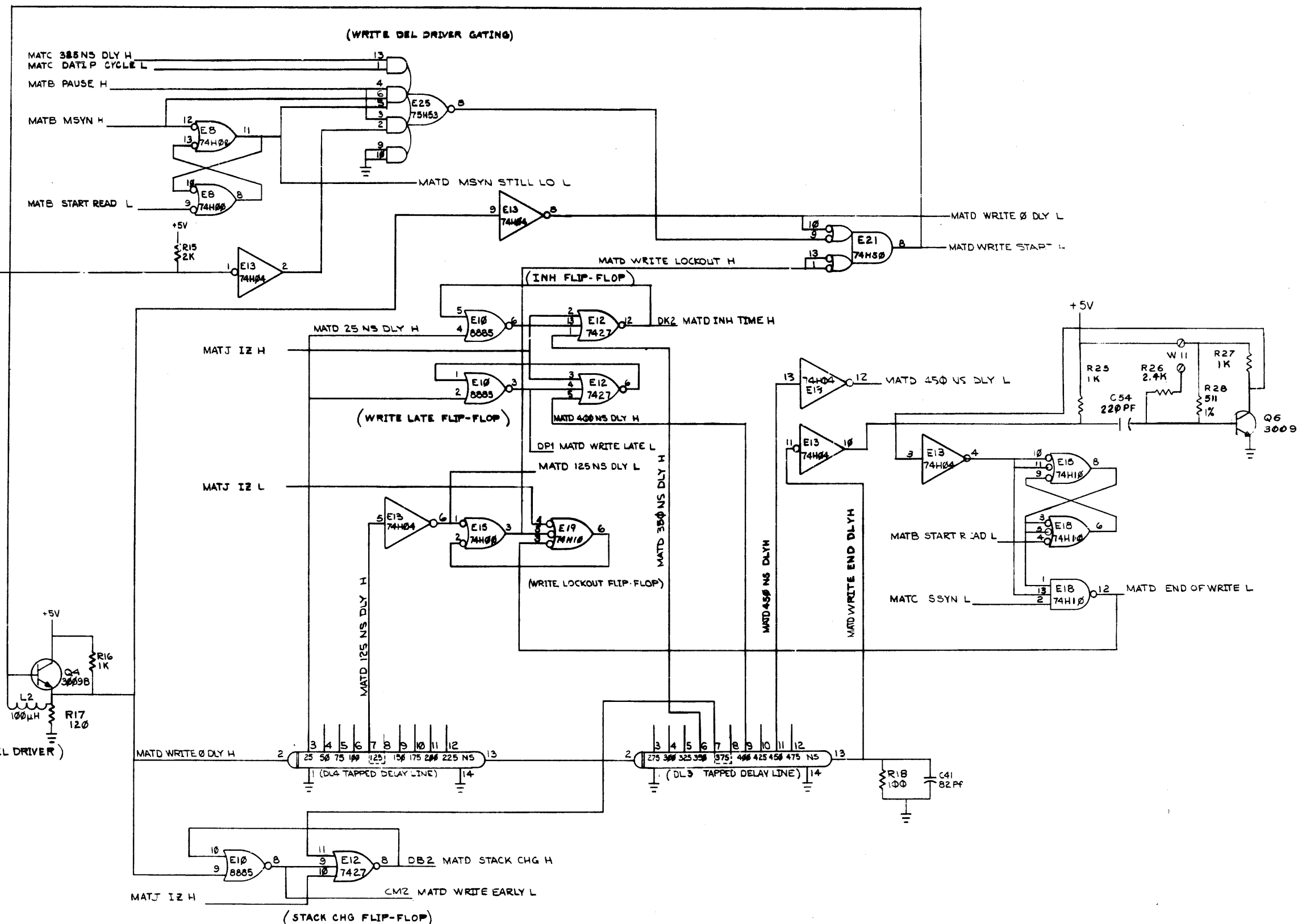
REVISIONS		
CHK	CHANGE NO	REV

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

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D
C
B
A

D
C
B
A



PC2 DATIP CLR PAUSE 1 L CE2
ORIGINATES FROM M7259
PARITY CONTROL MODULE
(SHEET 3) VIA MF11-UP BACKPLANE

(WRITE DEL DRIVER)

(WRITE DEL DRIVER GATING)

(INH FLIP-FLOP)

(WRITE LATE FLIP-FLOP)

(WRITE LOCKOUT FLIP-FLOP)

(STACK CHG FLIP-FLOP)

REVISIONS		
CHK	CHANGE NO	REV

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

3

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6

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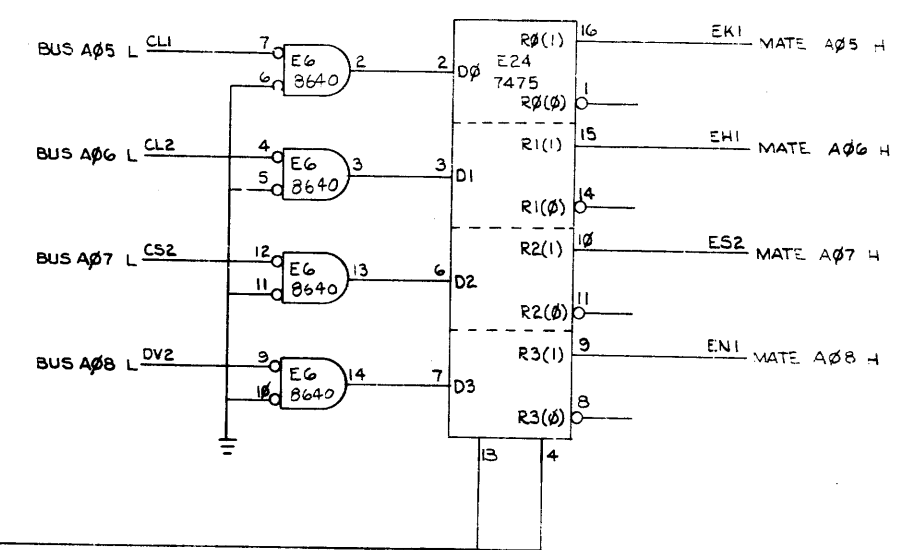
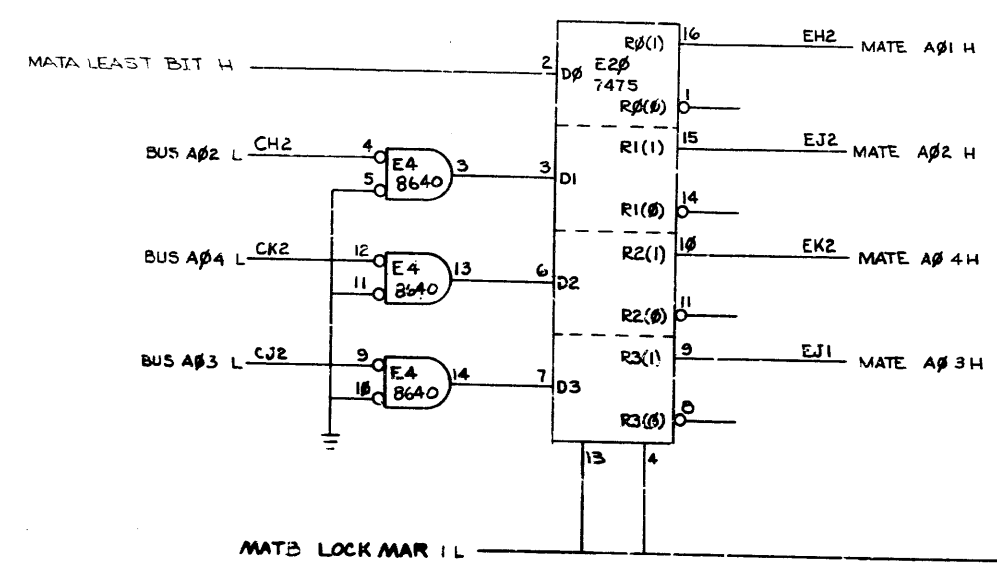
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E 7 9 9 2 D 2

1

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D
C
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D CS MB293-0-1

A01-A08 LATCHES				
TITLE	16K UNIBUS TIMING (MATE)	SIZE CODE	NUMBER	REV.
		D CS	M8293-0-1	E
CALL	SHEET 7 OF 8	DIST		

7

6

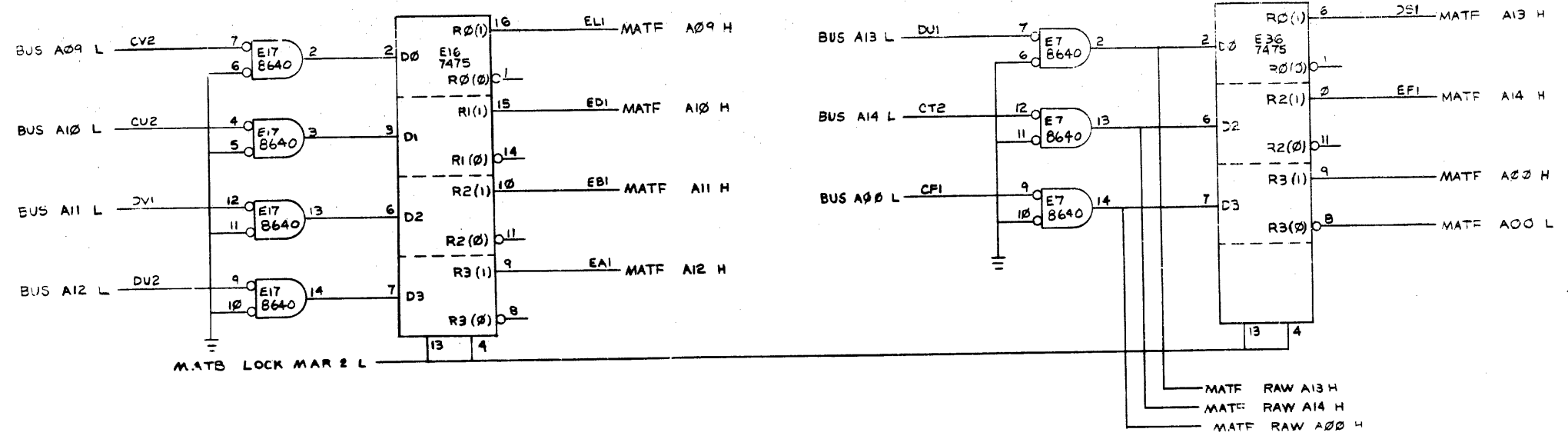
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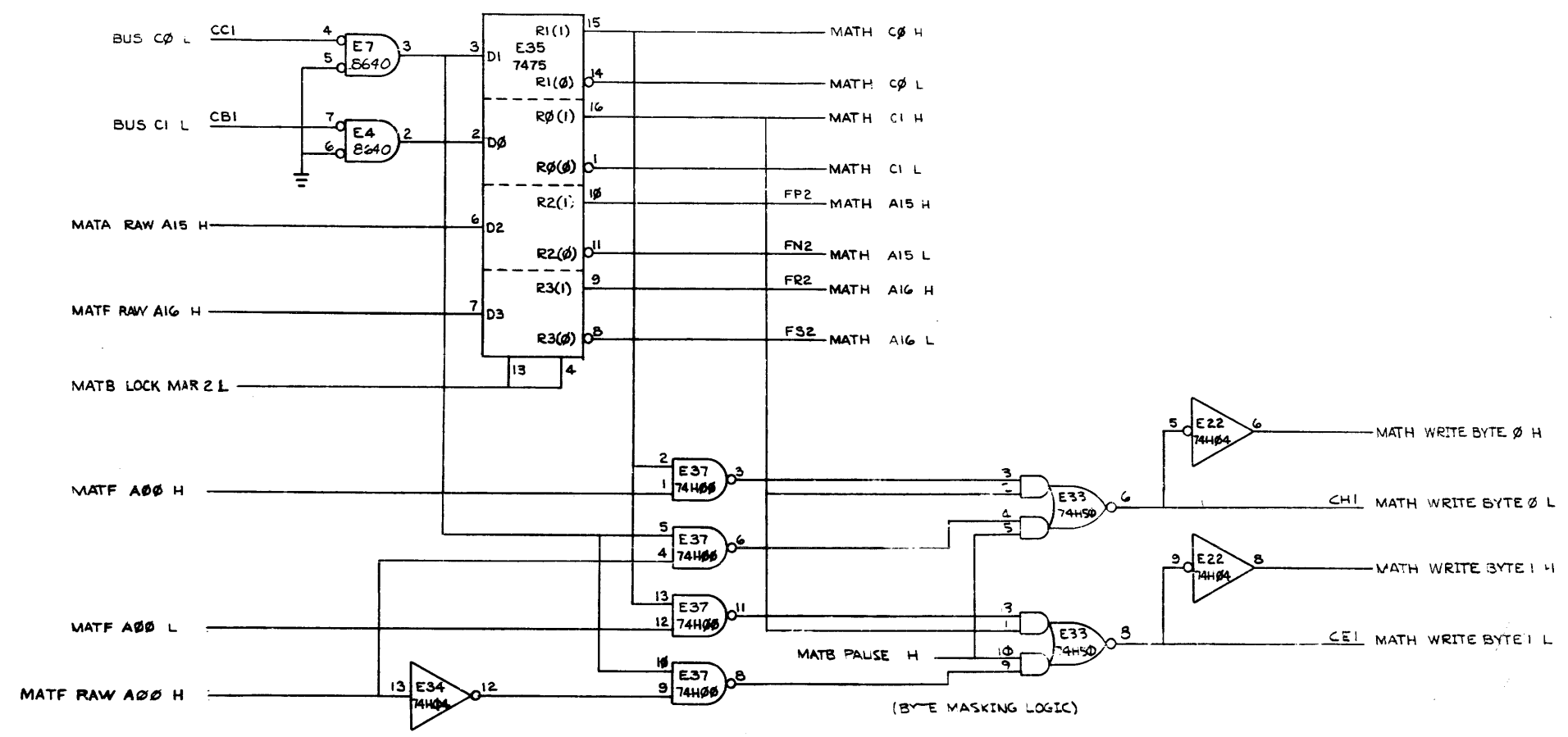


D
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A00 A09 -- A13 LATCHES

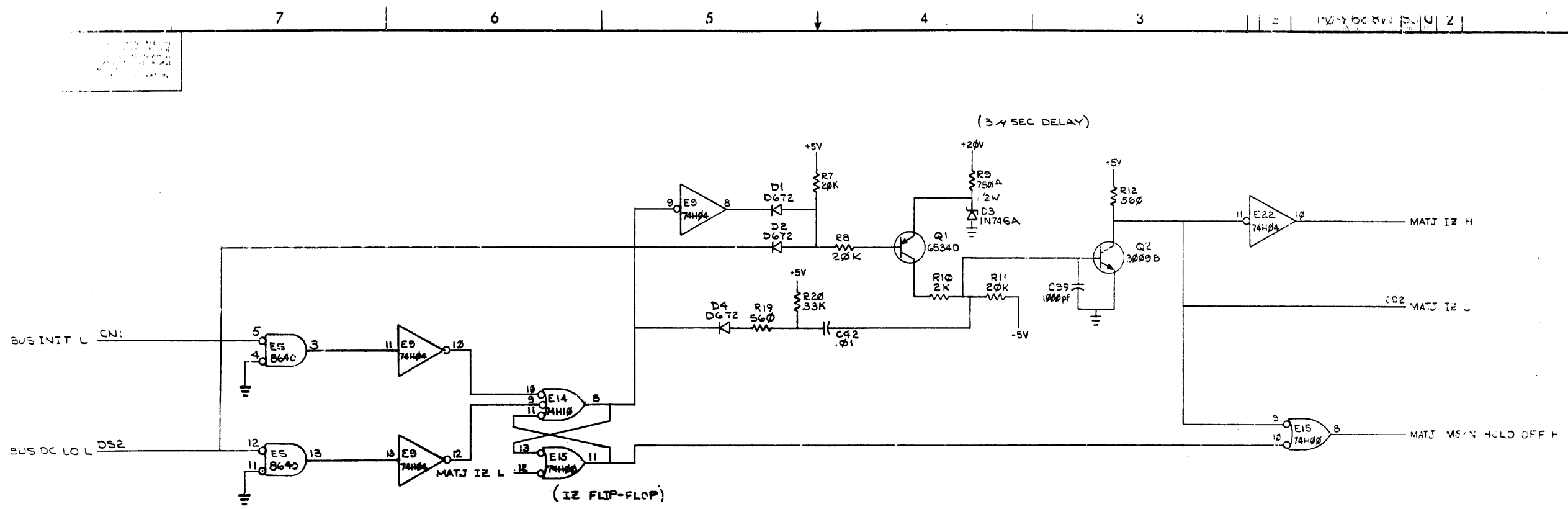
DCS	DCS	M8293-2-1	REV. E
SHEET 3 OF 2			

REVISIONS
 1. REVISED TO ADD AND
 2. REVISED TO CHANGE
 3. REVISED TO CHANGE



REV	DATE	BY

D
 C
 B
 A



INIT & DCLO INITIALIZING

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

DCS/VB213-0-1

B

A

REV	
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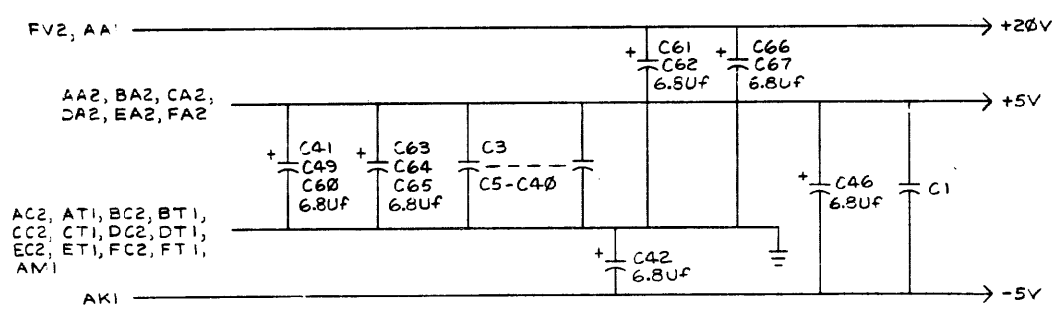
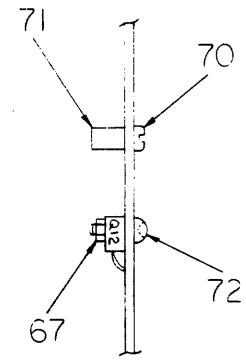
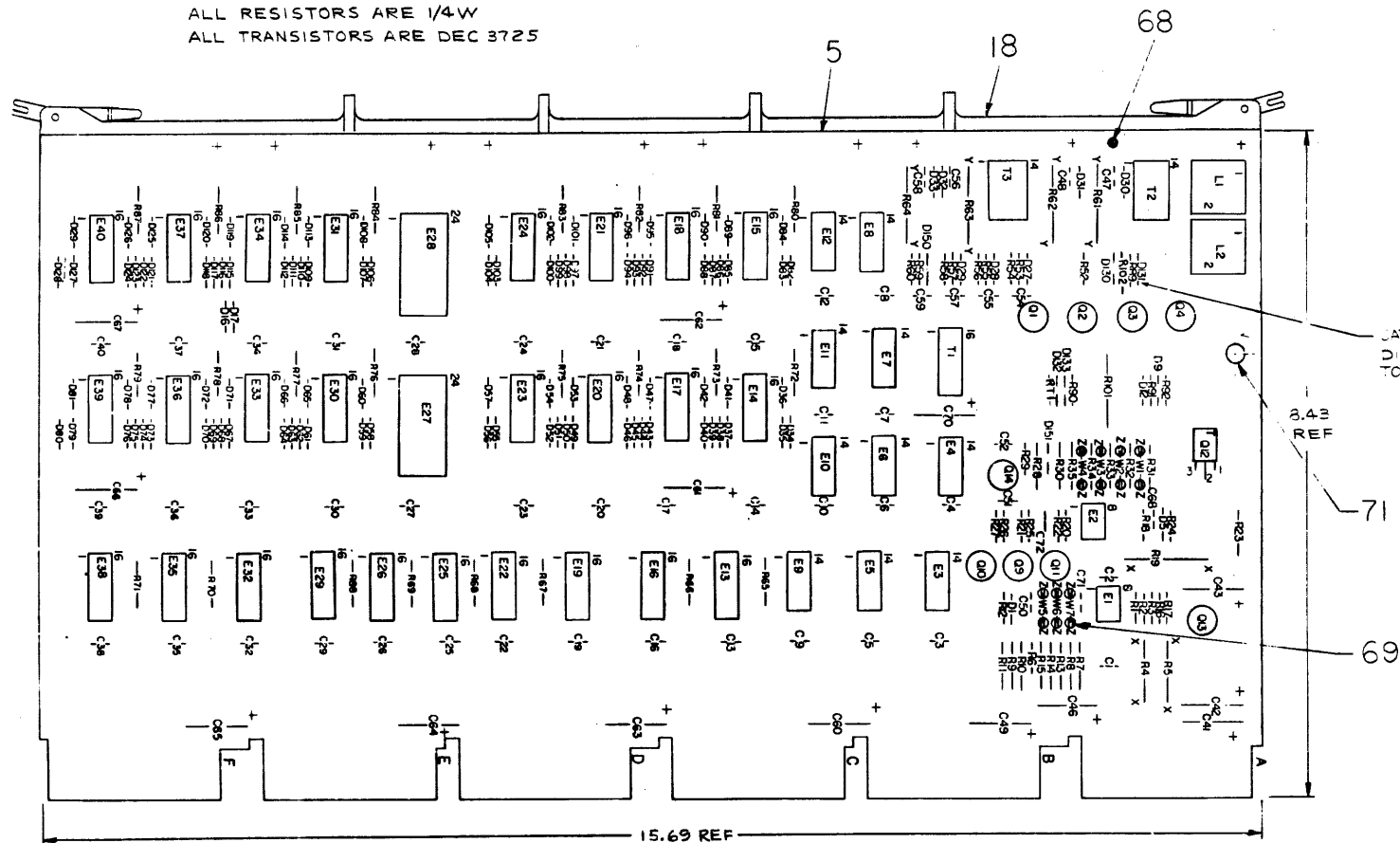
3

2

1

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 G114 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 1/4W
 ALL TRANSISTORS ARE DEC 3725



IC TYPE	GND	+5V	+20V
7412	7	-	-
41	-	-	-
732E	-	9	16
44E	8	16	-
74E4	12	24	-

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

IC PIN LOCATIONS

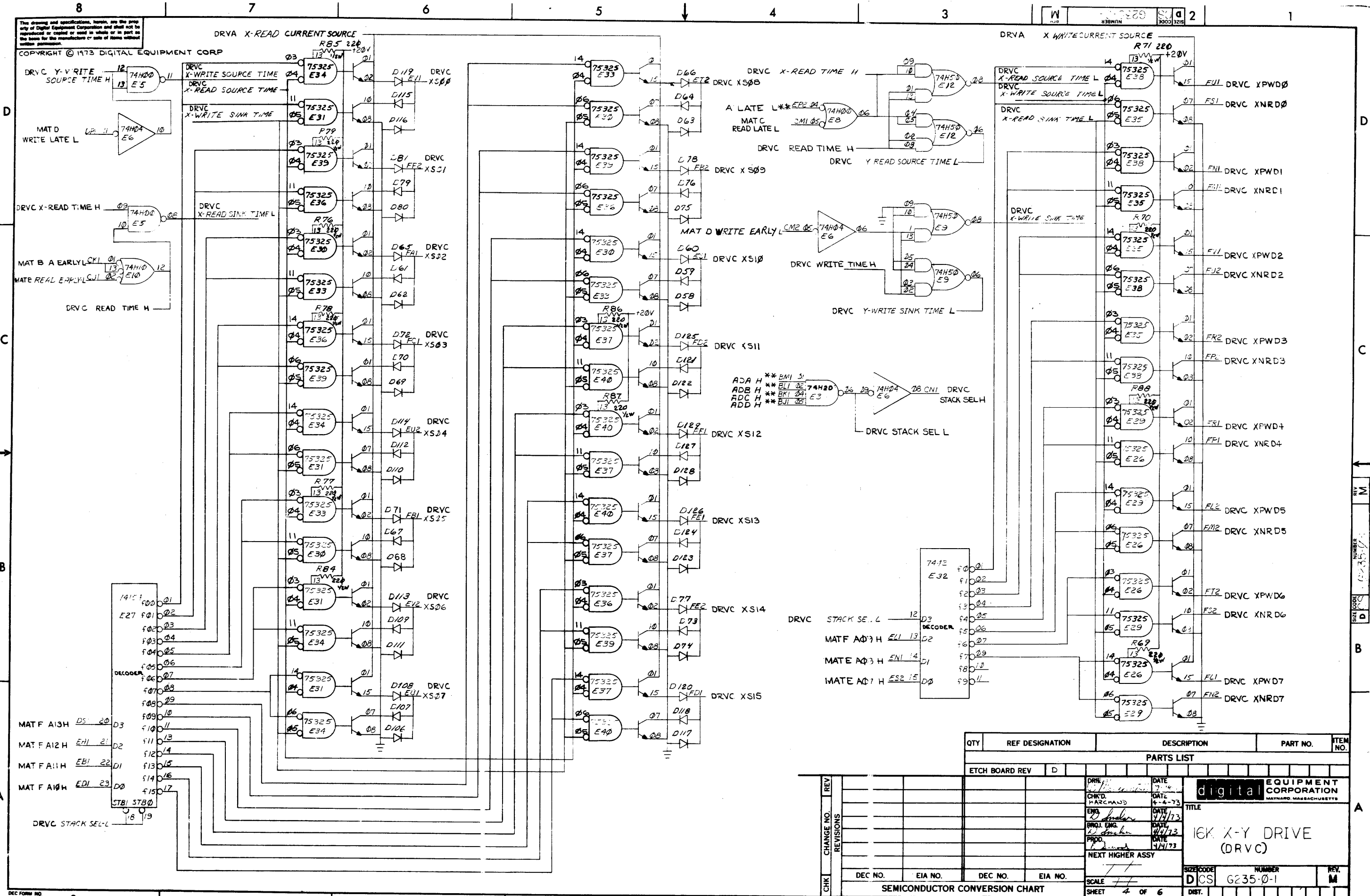
QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
FIRST USED ON OPTION MODEL				
MF11-U & MF11-UP				
ETCH BOARD REV D				
DRN	DATE	<div style="text-align: center;"> <p>digital EQUIPMENT CORPORATION WAYLAND, MASSACHUSETTS</p> <p>TITLE LUK X-Y DRIVE</p> <p>SIZE CODE NUMBER REV. DCS 6235-0-1 M</p> </div>		
CHK'D	DATE			
ENG.	DATE			
PROJ. ENG.	DATE			
PROD.	DATE			
NEXT HIGHER ASSY				
DEC NO	EIA NO	DEC NO	EIA NO	
SEMICONDUCTOR CONVERSION CHART				
SCALE	SHEET 2 OF 6			

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QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	E6	ICDEC 74H04		1909931	62						1
1	E10	ICDEC 74H10		1909057	63	REF		X-Y COORDINATE HOLE LOCATION		K-CO-G235-0-4	2
2	E7,E11	ICDEC 74H40		1905586	64	REF		ASSY/DRILLING HOLE LAYOUT		D-AH-G235-0-5	3
24	E13-E18, E20-E26, E29-E31, E33-E40	IC DEC 75325		1910960	65	REF		ECO MODULE HISTORY		B-MH-G235-0-6	4
2	E9,E12	ICDEC 74H50		1909060	66	1	C71	ETCHED CIRCUIT BD.		5010145	5
1		KEPNUT 4-40		9006557	67	46	C1-C40, C48, C50, C52, C58, C68, C72	CAP .01UF 50V 20%		1000011	6
12		EYELET HANDLE		9006732	68	4	C59, C54, C55, C57	CAP .005 UF 100V 20% DISC		1001610	7
14		SPLIT LUGS		9006735	69	1	C51	CAP 18 PF 100V 5% D.M.		1001765	8
1		SCREW NYLON 6-32		9008212-1	70	1	C43	CAP 18 PF 100V 5% D.M.		1002608	9
1		STAND OFF 1/4 X 3/8		9008213	71	13	C41, C42, C46, C49, C60, C67, C70	CAP 47 UF 20V 10% S. TANT		1004814	10
1		SCREW (PHILLIPS PAN HEAD) 4-40 X 5/16		9006010-1	72	1	D1	CAP 6.8UF 35V 10% S. TANT		1005306	11
1	R31	RES 19.8K 1/8W 1%		1309419	73	109	D9, D12, D17, D27-D130, D132, D150	DIODE ZENER IN753A 6.2V ± 5%		1102421	12
AR	WI-WT	WIRE #22 AWG (SOLID)		9107560-1	74	1	D16	DIODE D672		1105275	13
1	R91	RES 180Ω/1/4W 5%		1301322	75	1	D5	DIODE ZENER IN5248B 18V ± 10%		1110766	14
1	D133	DIODE ZENER IN752A 5.6V ± 5%		1102808	76	1	D5	DIODE ZENER IN749A 4.3V ± 5%		1109917	15
1	R92	RES 150Ω 1/4W 5%		1300250	77	1	D131	DIODE ZENER IN754A 6.8V ± 5%		1109991	16
2	C47, C56	CAP .022UF 50V		1011683	78	1	D151	DIODE ZENER IN750A 4.7V ± 5%		1100124	17
1	RT1	THERMISTOR 300Ω 2%		1309785	79	2		HANDLE ASSY		1210711-2	18
1	R102	RES 330Ω 1/4W 5%		1300295	80	2	R18, R24	RES 100 1/4W 5%		1300229	19
1	Q11	TRANS. DEC 425B		1505321	81	12	R69-R71, R76-R79, R84-R88	RES 220 1/2W 5%		1300274	20
1	E3	IC DEC 74H20		1905635	82	1	R101	RES 220 2W 10%		1300278	21
1	R7	RES. 9.09K 1/8W 1%		1304855	83	12	R65-R68, R72-R75, R80-R83	RES 270 1/2W 5%		1300285	22
						2	R21, R27	RES 470 1/4W 5%		1300316	23
						2	R3, R16	RES 1K 1/4W 5%		1300365	24
						1	R23	RES 1K 1/2W 5%		1300364	25
						1	R2	RES 4.7K 1/4W 5%		1300447	26
						1	R17	RES 10 1/4W 5%		1301317	27
						1	R89	RES 82Ω 1/4W 5%		1301477	28
						4	R61-R64	RES 10Ω 2W 10%		1300172	29
						1	R22	RES 22K 1/4W 5%		1301808	30
						1	R12	RES 270 1/4W 5%		1301972	31
						4	R54, R56, R58, R60	RES 18 1/4W 5%		1302124	32
						4	R53, R55, R57, R59	RES 75 1/4W 5%		1302379	33
						4	R25, R26, R52, R20	RES 2K 1/4W 5%		1302388	34
						2	R1, R6	RES 470K 1/4W 5%		1302398	35
						1	R29	RES 120Ω 1/4W 5%		1300539	36
						2	R32, R8	RES 10K 1/8W 1%		1302886	37
						2	R28, R30	RES 14.7K 1/8W 1%		1302941	38
						1	R9	RES 287 1/8W 1%		1305124	39
						1	R10	RES 196 1/8W 1%		1302956	40
						1	R35	RES 3.16K 1/8W 1%		1303045	41
						1	R34	RES 34.8K 1/8W 1%		1303156	42
						1	R14	RES 243K 1/8W 1%		1304843	43
						1	R11	RES 2.61K 1/8W 1%		1303303	44
						2	R15, R33	RES 68.1K 1/8W 1%		1305252	45
						1	R13	RES 121K 1/8W 1%		1305255	46
						2	R4, R5	RES .25 3W 1%		1310219	47
						1	R19	RES .05 5W 3%		1310983	48
						1	R90	RES 56Ω 1/4W 5%		1302002	49
						1	Q14	TRANS DEC 2904A		1501913	50
						1	Q13	TRANS DEC 6534B		1503409-1	51
						1	Q12	TRANS DEC 4920		1509605	52
						6	Q1-Q4, Q9, Q10	TRANS DEC 3725		1510959	53
						1	T1	PULSE TRANSFORMER (DIP)		1609851	54
						2	T2, T3	SATURATING TRANSFORMER-XY		1610962	55
						2	L1, L2	CHOKE 400 UH		1610963	56
						2	E27, E28	IC DEC 74154		1909701	57
						2	E19, E32	IC DEC 7442		1910046	58
						1	E4	IC DEC 74121		1910230	59
						2	E1, E2	IC DEC 741		1910298	60
						2	E5, E8	IC DEC 74H00		1909056	61

REVISIONS		
CHK	CHANGE NO	REV

TITLE: 16K X-Y DRIVE
 SIZE CODE: DCS
 NUMBER: G235-0-1
 SCALE: 1:1
 SHEET: 3 OF 6
 DIST.:



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV D				
DRVC	7412	E32	7412	
DRVC	75325	E33	75325	
DRVC	75325	E31	75325	
DRVC	75325	E36	75325	
DRVC	75325	E30	75325	
DRVC	75325	E37	75325	
DRVC	75325	E34	75325	
DRVC	75325	E38	75325	
DRVC	75325	E29	75325	
DRVC	75325	E26	75325	
DRVC	75325	E23	75325	
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DRVC	75325	E7	75325	
DRVC	75325	E6	75325	
DRVC	75325	E5	75325	
DRVC	75325	E4	75325	
DRVC	75325	E3	75325	
DRVC	75325	E2	75325	
DRVC	75325	E1	75325	

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MAYNARD, MASSACHUSETTS

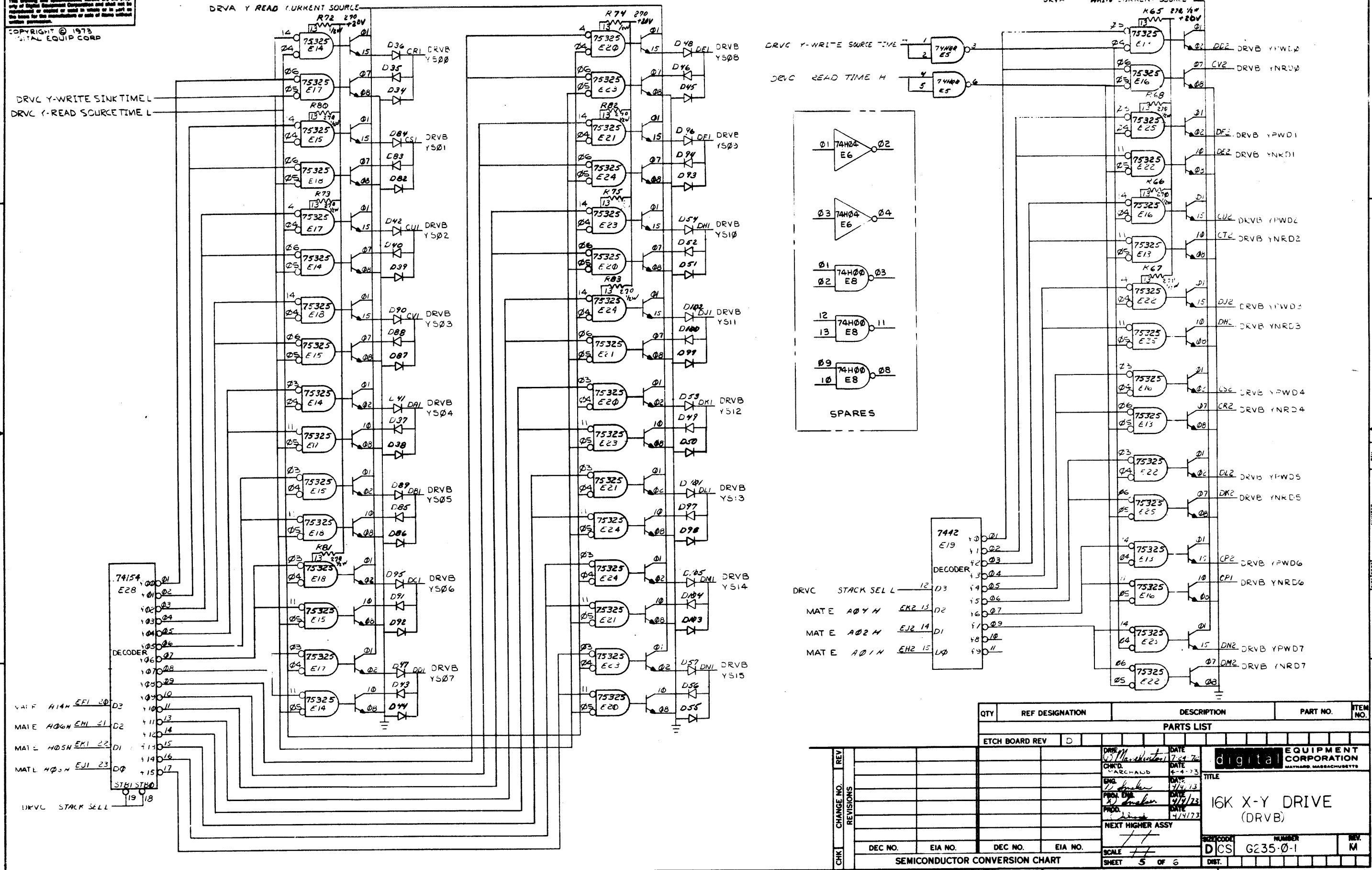
16K X-Y DRIVE (DRVC)

SCALE: 1/4" = 1"

SHEET 4 OF 6

REV. M

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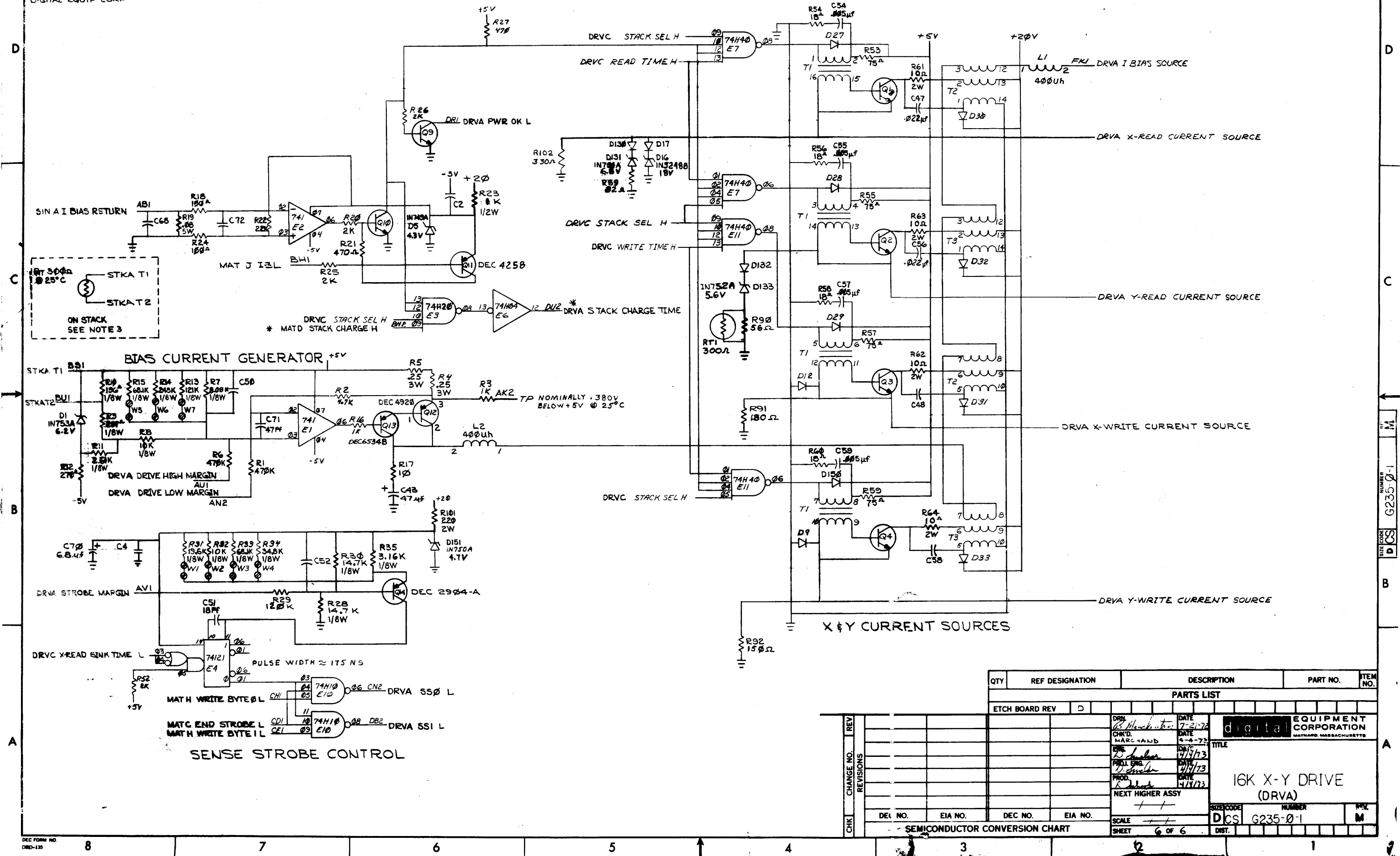


QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV D				
16K X-Y DRIVE (DRVB)				
SCALE: D CS NUMBER: G235-0-1 REV: M				

CHK	CHANGE NO.	REV	DATE	BY

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QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV D				
REV	CHG	NO.	REVISIONS	
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REV. M
NUMBER G235-0-1
SIZE CODE DCS

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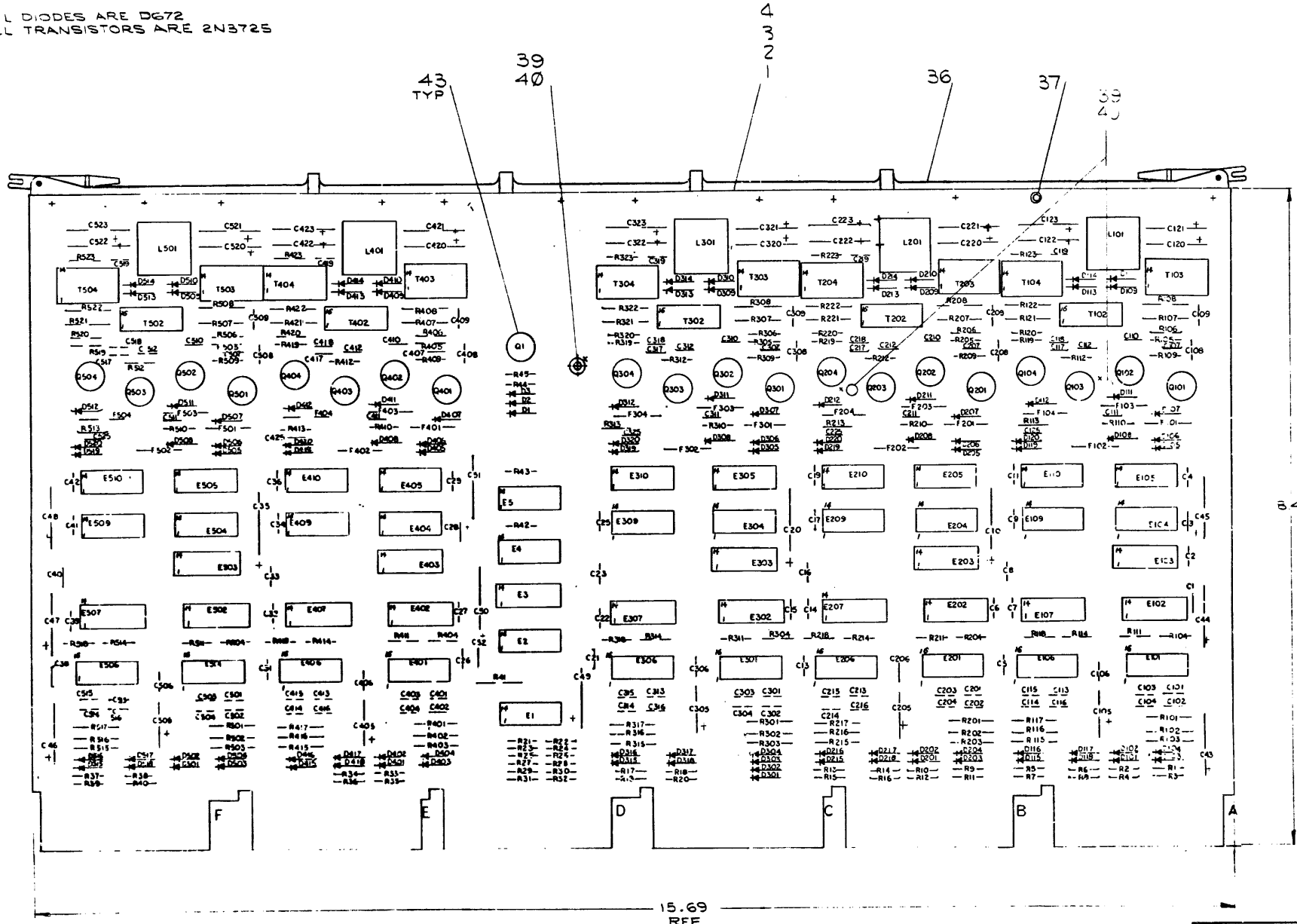
TITLE
16K X-Y DRIVE (DRVA)

SCALE
DCS G235-0-1

SHEET 6 OF 6

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL RESISTORS ARE IN OHMS 1/4W
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



DEC 7380	1	8	-
DEC 7340	1	8	-
DEC 7528	3	16	8
C TYPE	GND	+5V	-5V

AND 5V ARE USUALLY PIN 7 AND 14
EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.										
FIRST USED ON OPTION MODEL														
MF 11-U & MF 11-UP														
ETCH BOARD REV C														
PARTS LIST														
<table border="1"> <tr> <td>DRN</td> <td>DATE 4-3-73</td> </tr> <tr> <td>CHK'D</td> <td>DATE</td> </tr> <tr> <td>ENG</td> <td>DATE</td> </tr> <tr> <td>PROJ. ENG.</td> <td>DATE 7/17/73</td> </tr> <tr> <td>PROD.</td> <td>DATE</td> </tr> </table>					DRN	DATE 4-3-73	CHK'D	DATE	ENG	DATE	PROJ. ENG.	DATE 7/17/73	PROD.	DATE
DRN	DATE 4-3-73													
CHK'D	DATE													
ENG	DATE													
PROJ. ENG.	DATE 7/17/73													
PROD.	DATE													
NEXT HIGHER ASSY														
<table border="1"> <tr> <td>DEC NO.</td> <td>EIA NO.</td> <td>DEC NO.</td> <td>EIA NO.</td> </tr> <tr> <td colspan="4">SEMICONDUCTOR CONVERSION CHART</td> </tr> </table>					DEC NO.	EIA NO.	DEC NO.	EIA NO.	SEMICONDUCTOR CONVERSION CHART					
DEC NO.	EIA NO.	DEC NO.	EIA NO.											
SEMICONDUCTOR CONVERSION CHART														
SCALE 2 OF 9 SHEET														
<table border="1"> <tr> <td>SIZE CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>DCS</td> <td>G114-0-1</td> <td>F</td> </tr> </table>					SIZE CODE	NUMBER	REV.	DCS	G114-0-1	F				
SIZE CODE	NUMBER	REV.												
DCS	G114-0-1	F												

digital EQUIPMENT CORPORATION
WATNAUD, MASSACHUSETTS

TITLE
16 K SENSE/INHIBIT

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1-0-119 SCD 2

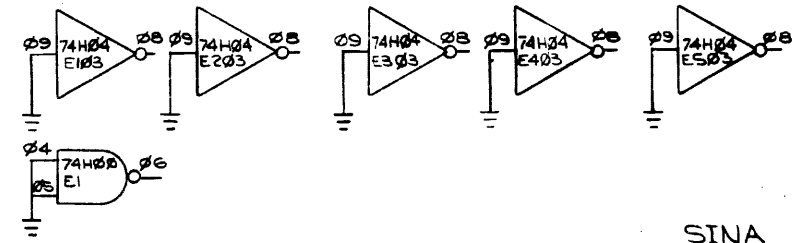
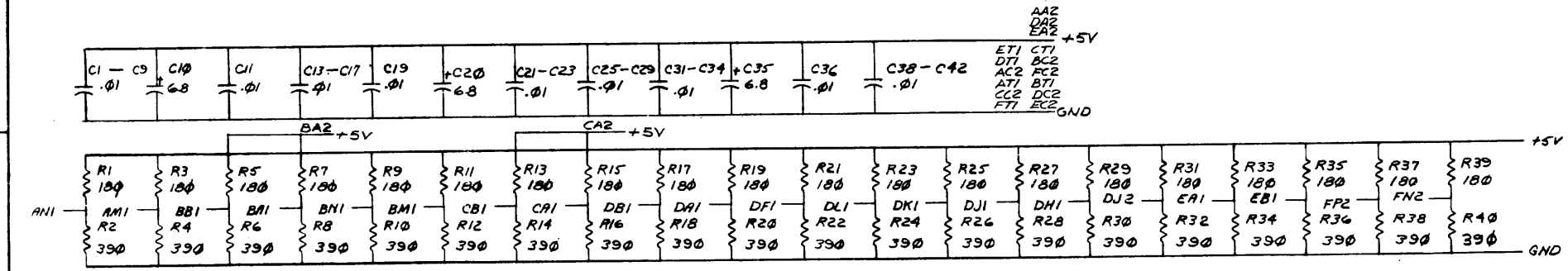
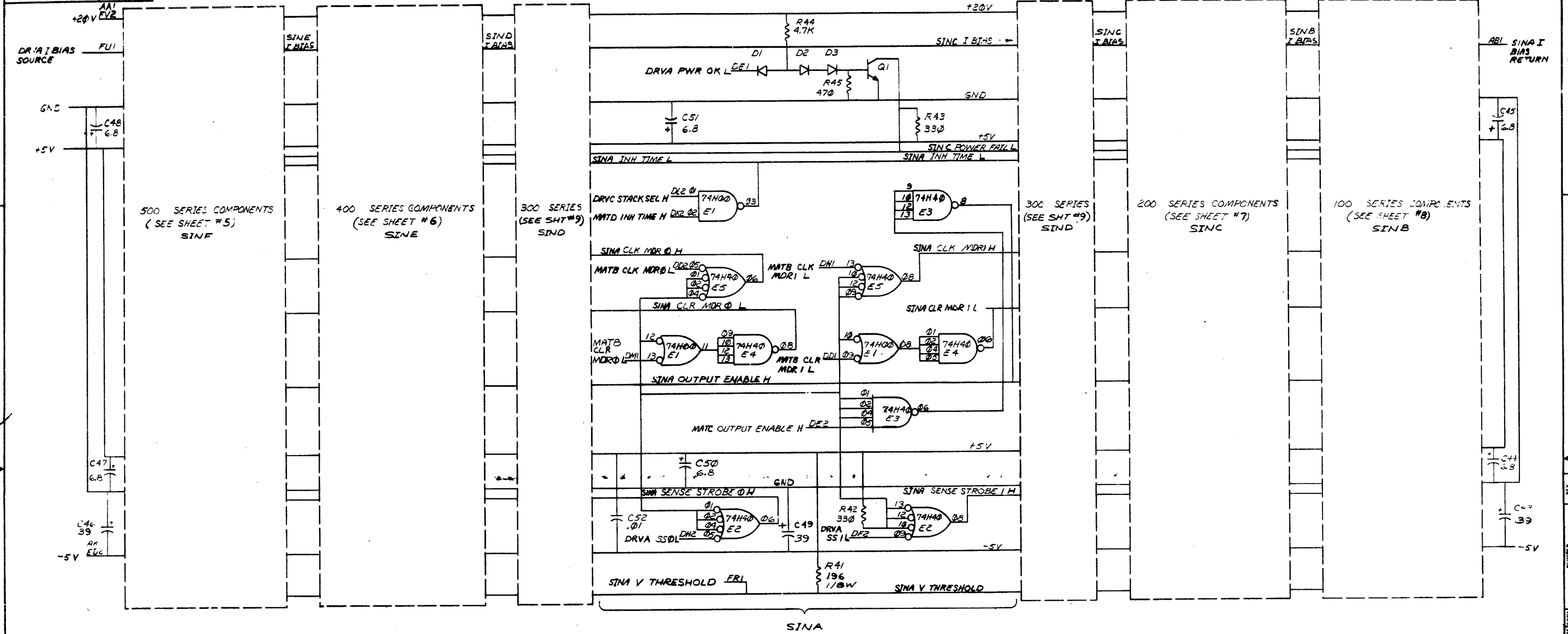
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	REF	E1	ETCHED CIRCUIT BOARD	5010478	1
1	REF	E2 THRU E5, E105, E110, E205, E210, E305, E310, E405, E410, E505, E510	X-Y COORDINATE HOLE LOCATION	K-CO-G114-0-4	2
14	REF	E101, E106, E201, E206, E301, E306, E401, E406, E501, E506	ASSY/DRILLING HOLE LAYOUT	D-AH-G114-0-5	3
10	REF	E107, E207, E307, E407, E507	MODULE ECO HISTORY	B-MH-G114-0-6	4
5	55	E104, E109, E204, E209, E304, E309, E404, E409, E504, E509	CAP. 0.1UF 50V, 20% CER	1001610	5
5	35	L101, L201, L301, L401, L501	CAP. 6.8UF 35V 10% TANT	1005306	6
1	36		CAP. 82 PF 100V 5% D.M.	1000015	7
12	37		CAP. 3.9UF 10V, ±10% TANT	1000064	8
20	38	F101 THRU F104, F201 THRU F204, F301 THRU F304, F401 THRU F404, F501 THRU F504	CAP. 39UF 10V ±10% TANT	1000076	9
3	39		CAP. 560 PF 100V, 5% D.M.	1000025	10
3	40		CAP. .005UF 100V, 20% DISC	1001765	11
5	41	E103, E203, E303, E403, E503	CAP. .22UF 50V +80% -20% CER	1010274-0	12
5	42	E102, E202, E302, E402, E502	DIODE D672	1107275	13
21	43		RES. 180, 1/4W, 5%	1301322	14
A/R	44	24 AWG WIRE	RES. 196, 1/8W, 1% MF	1302956	15
	45		RES. 390, 1/4W, 5%	1300309	16
	1		RES. 330, 1/4W, 5%	1300295	17
	1		RES. 4.7K, 1/4W, 5%	1300447	18
	20		RES. 19.6, 1/8W, 1% MF	1303110	19
	10		RES. 1K, 1/8W, 1% MF	1303114	20
	20		RES. 1K, 1/4W, 5%	1300365	21
	20		RES. 100, 1/4W, 5%	1300229	22
	20		RES. 5.1, 1/4W, 5%	1300422	23
	1		RES. 470, 1/4W, 5%	1300316	24
	5		RES. 150, 1/4W, 5%	1300250	25
	20		RES. 56, 1/2W, 5%	1309995	26
	21		TRANS 2N3725 (T05)	1510959	27
	10		TRANSFORMER SATURATING INHIBIT	1610961	28
	5		TRANSFORMER, PULSE (DIP)	1609996	29

REVISIONS		
CHK	CHANGE NO	REV

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

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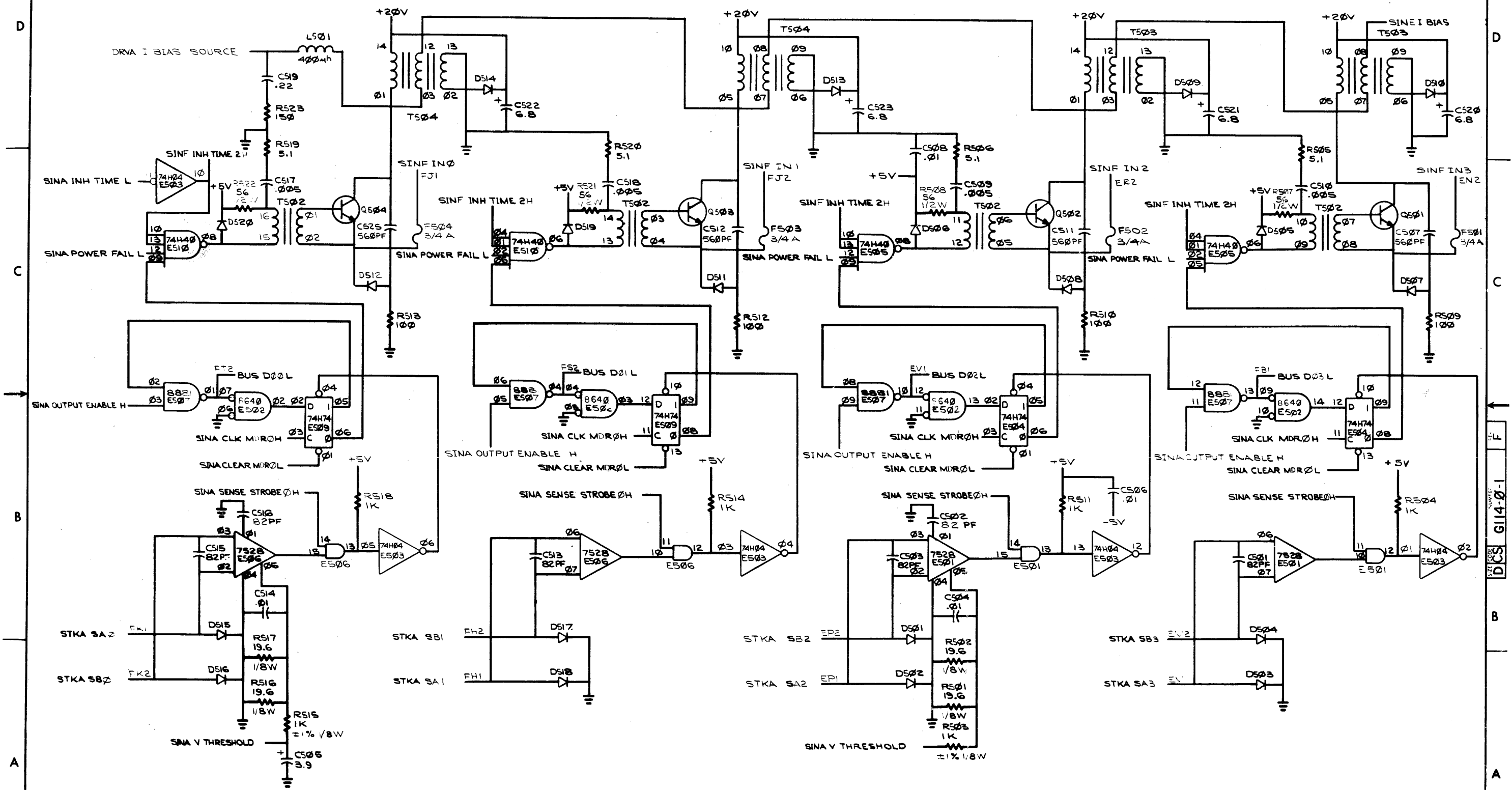


FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
MF11-LU & MF11-UP		PARTS LIST		
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES	DRAWN <i>B. Marschall</i> DATE 6-20-73	DATE 4-13-73	digital EQUIPMENT CORPORATION	
DECIMALS	ANGLES	ENG. <i>D. Johnson</i> DATE 4-13-73	TITLE	
.XXX = .008	10° 30'	PROJ. ENG. <i>D. Johnson</i> DATE 4-13-73	16K SENSE/INHIBIT (SINA)	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	PROD. <i>B. Johnson</i> DATE 4-13-73	NEXT HIGHER ASSY.		
MATERIAL		SIZE CODE	NUMBER	REV.
FINISH		DCS	G114-0-1	E
		SCALE	SHEET 4 OF 9	DIST.

REVISIONS
CHANGE NO.
CHK

REV. F
G114-0-1

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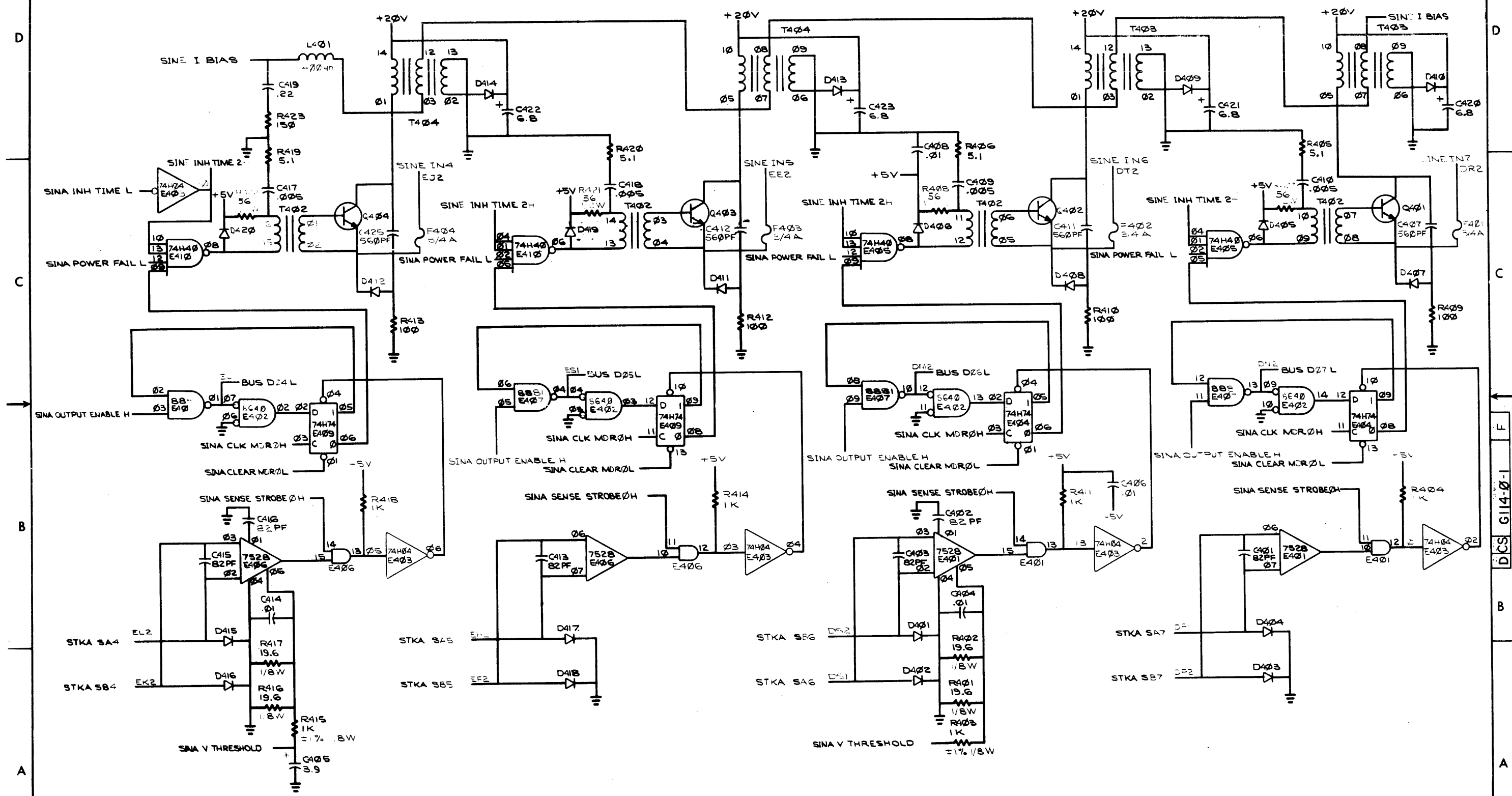


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
16K SENSE/INHIBIT (SINF)		DCS	G114-0-1	F
SCALE		SHEET	OF	
		5	9	

500 SERIES SINF

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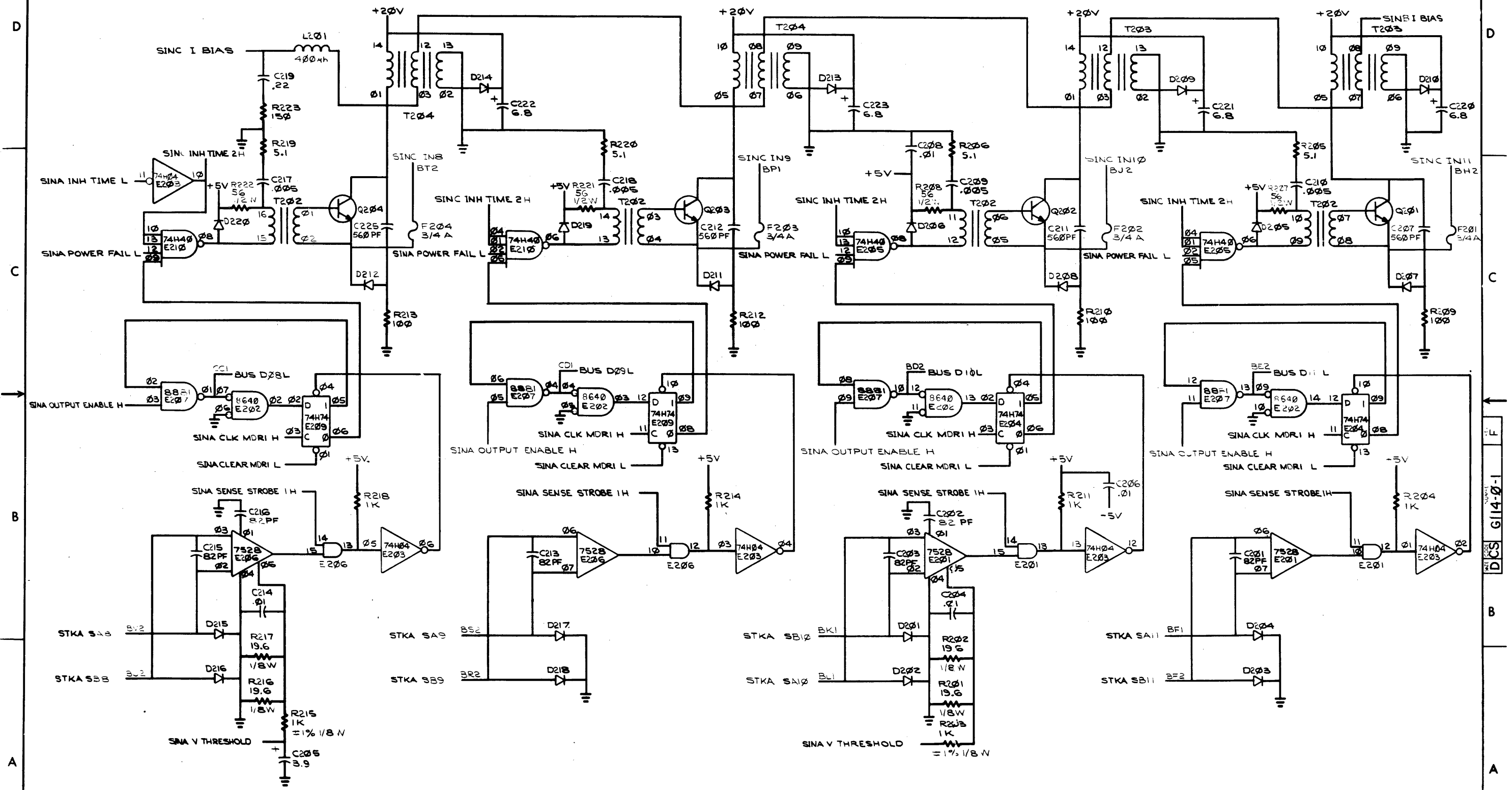


REVISIONS		
CHK	CHANGE NO	REV

400 SERIES SINE

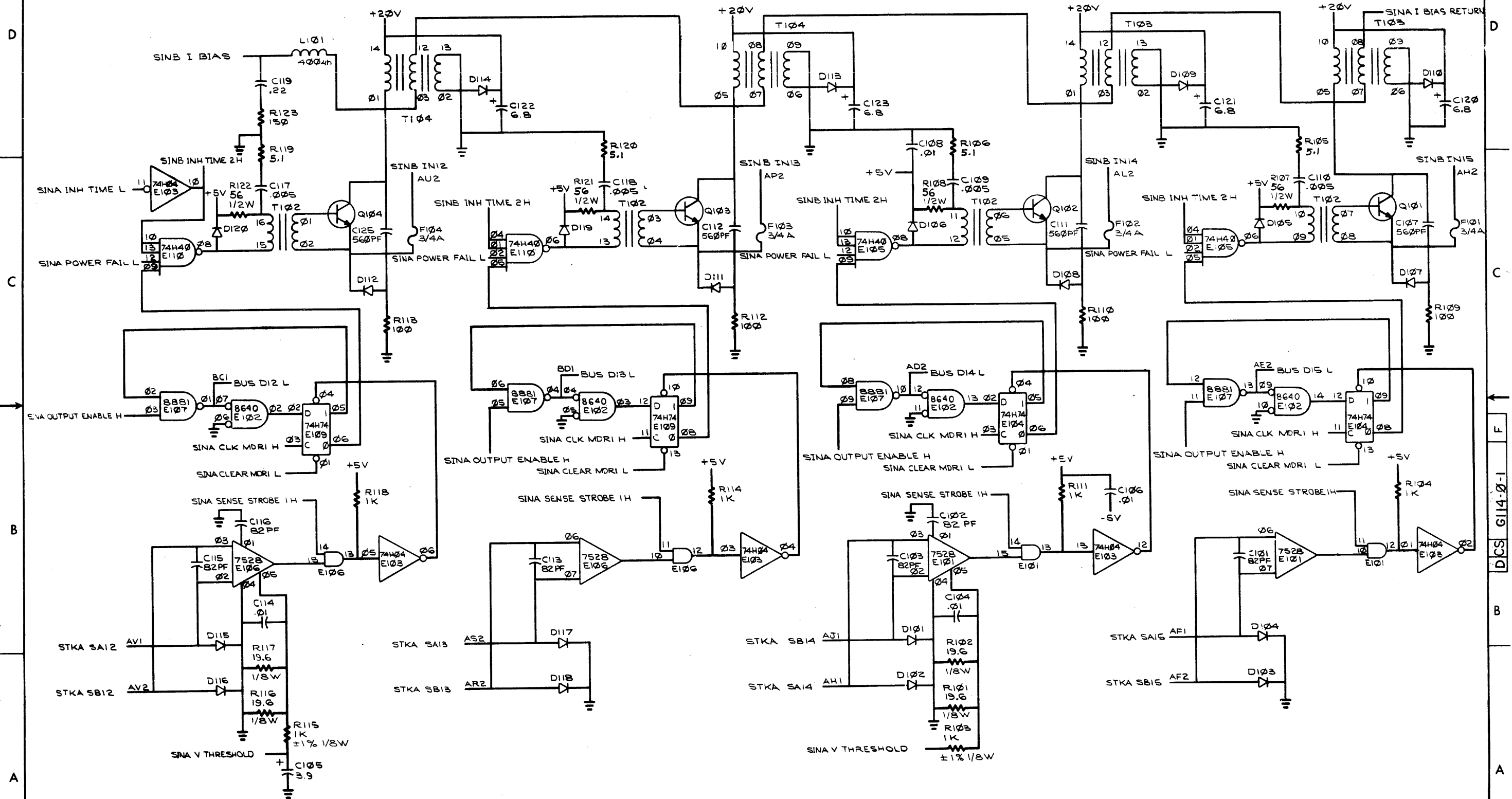
TITLE	SIZE CODE	NUMBER	REV.
16K SENSE/INHIBIT (SINE)	DCS	G114-0-1	F
SCALE	SHEET	OF	
	6	9	

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REVISIONS		
CHK	CHANGE NO	REV

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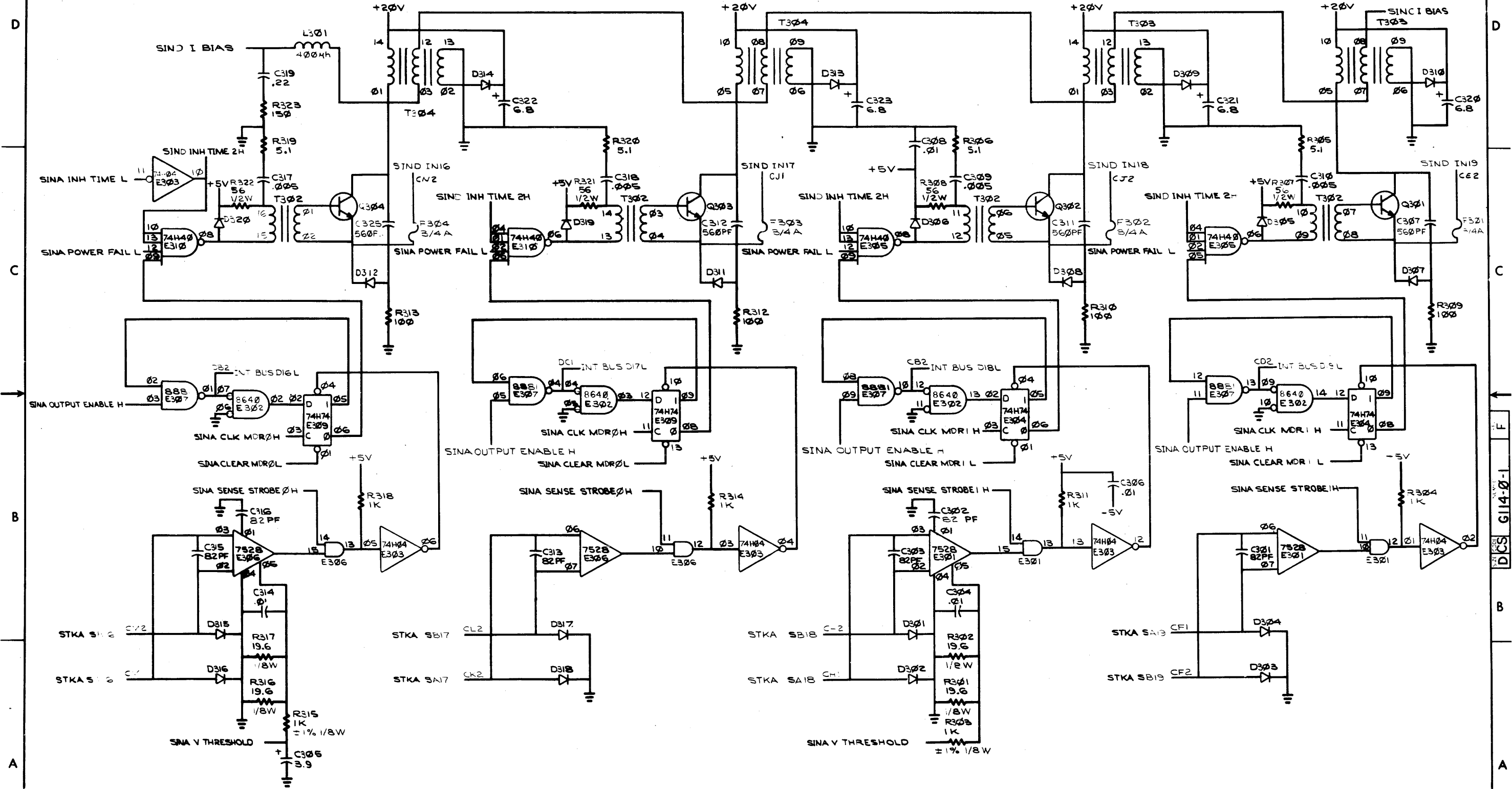


100 SERIES SINB

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE CODE	NUMBER	REV.
16K SENSE/INHIBIT (SINB)	DCS	6114-0-1	F
SCALE	SHEET 8 OF 9	DIST.	

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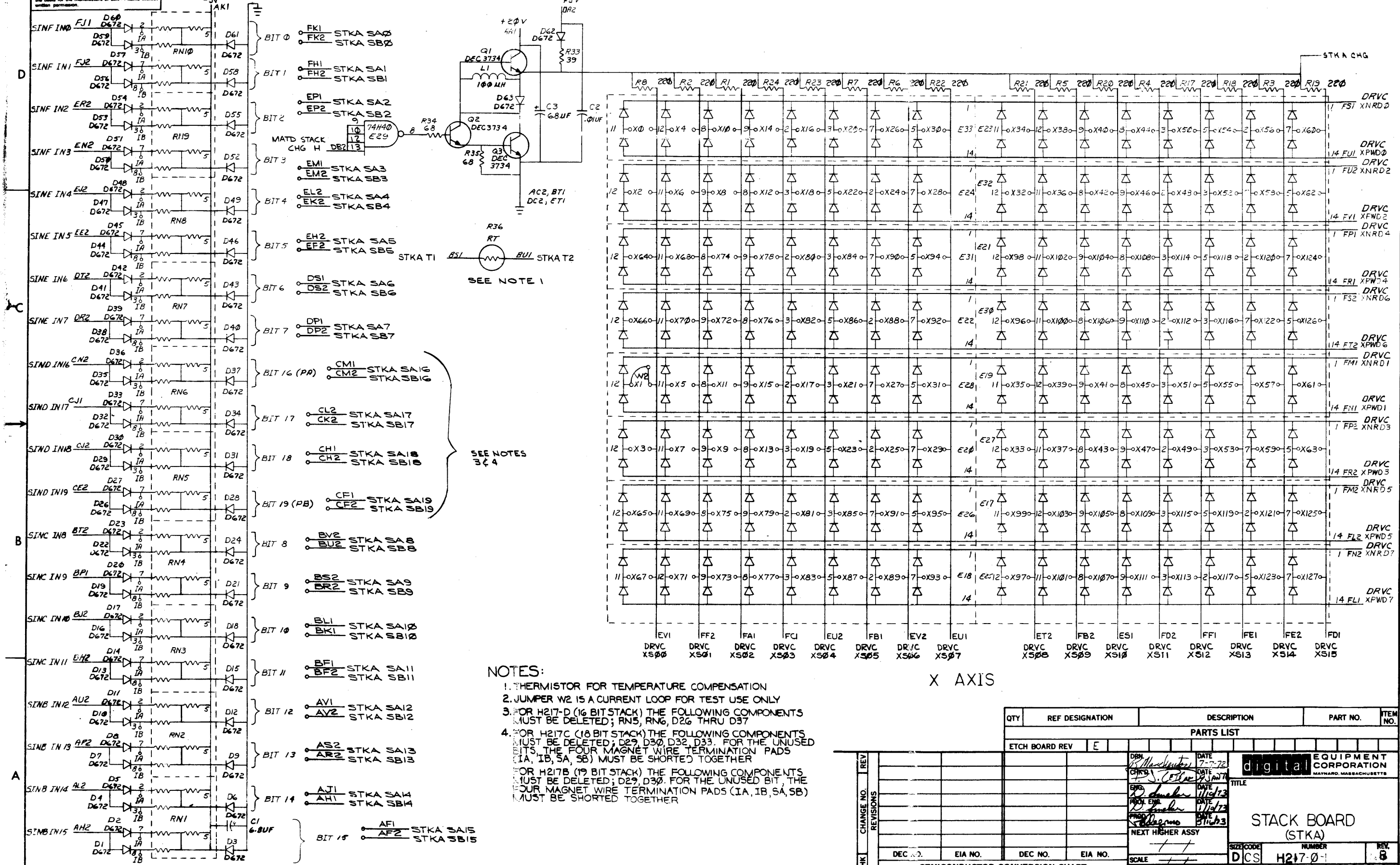


REVISIONS		
CHK	CHANGE NO	REV

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

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SEE NOTES 3 & 4

- 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; RNS, RRG, 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
- 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

X AXIS

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
STACK BOARD (STKA)				
SIZE CODE: DCS NUMBER: H217-0-1 REV: B				
SCALE: 1:1 SHEET: 2 OF 3				

CHK	CHANGE NO.	REV	DATE	BY

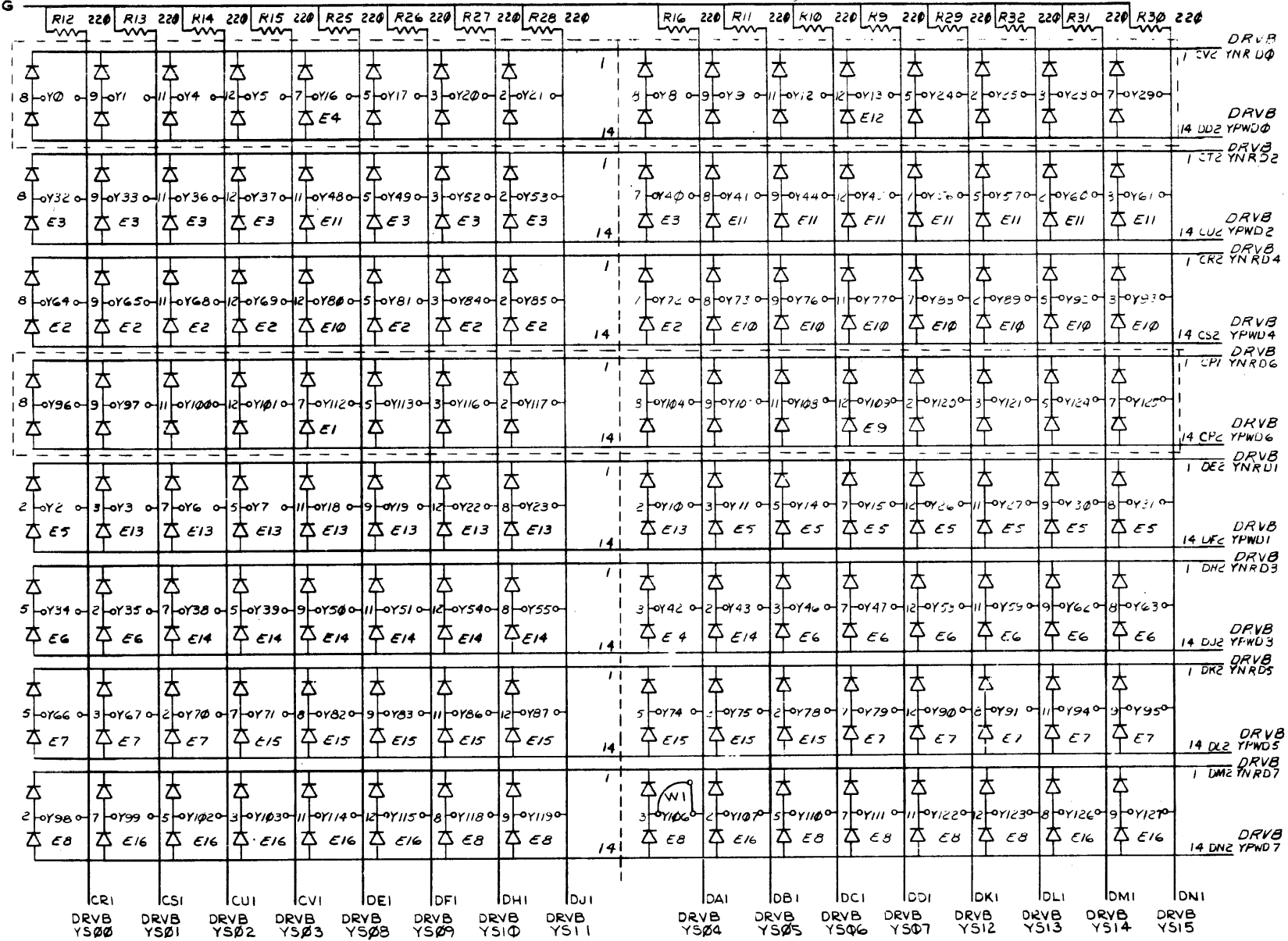
DEC NO.	EIA NO.	DEC NO.	EIA NO.

SEMICONDUCTOR CONVERSION CHART

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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"> <tr> <td>DRBL</td> <td>DATE</td> <td rowspan="5" style="text-align: center;"> digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS </td> </tr> <tr> <td>CHSLD</td> <td>DATE</td> </tr> <tr> <td>ENB</td> <td>DATE</td> </tr> <tr> <td>PROJ ENG</td> <td>DATE</td> </tr> <tr> <td>TEST</td> <td>DATE</td> </tr> </table>					DRBL	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CHSLD	DATE	ENB	DATE	PROJ ENG	DATE	TEST	DATE
DRBL	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS													
CHSLD	DATE														
ENB	DATE														
PROJ ENG	DATE														
TEST	DATE														
NEXT HIGHER ASSY			TITLE												
SCALE			SIZE CODE												
SHEET 3 OF 3			DCS H217-0-1												

CHK	CHANGE NO.	REV	REVISIONS

SEMICONDUCTOR CONVERSION CHART

DEC NO.	EIA NO.	DEC NO.	EIA NO.

8

7

6

5

4

3

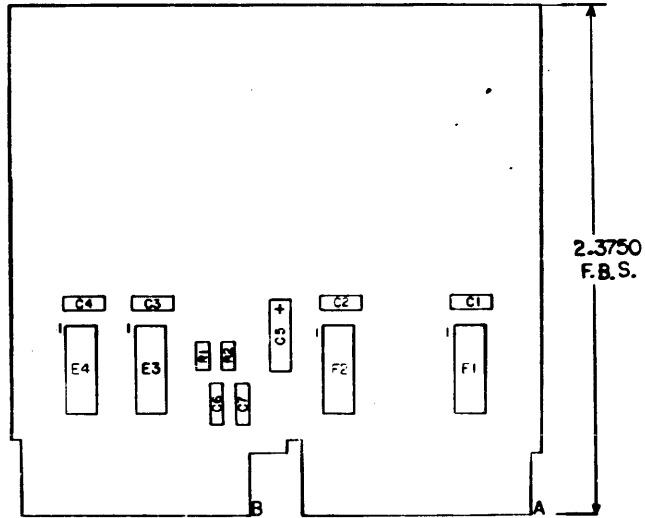
2

1

NOTES:

... EQUIPMENT CORPORATION

REF	KEY COORDINATE 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
1	ETCHED CIRCUIT BOARD	5003696	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 383 Ω 1/4W 1%	1305125
2	E1, E4	28 RES DIVIDER NETWORK	1312228-00
2	E2, E3	25 RES DIVIDER NETWORK	1312223-01



REV. E
M930-0-1
D CS

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

FIRST USED ON OPTION MODEL
M930

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
-----	------------------	-------------	----------	----------

PARTS LIST

ETCH BOARD REV.	E-PS	DRN. J. CARTER DATE 7-9-75				
CHKD. E. Morrison DATE 7-16-75	ENGR. DATE 7-16-75	TITLE				
PROJ. DATE 12-3-75	PROD. DATE	BUS TERMINATOR				
NEXT HIGHER ASSY		SIZE CODE				
DEC. NO.	EIA NO.	DEC. NO.	EIA NO.	NUMBER	REV.	
SEMICONDUCTOR CONVERSION CHART				D CS	M930-0-1	E
SCALE				SHEET	OF	
				1	2	

8

7

6

5

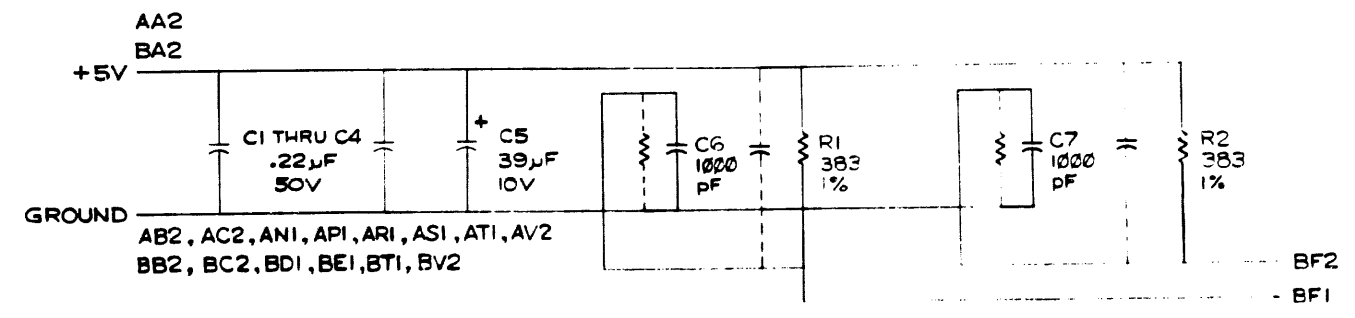
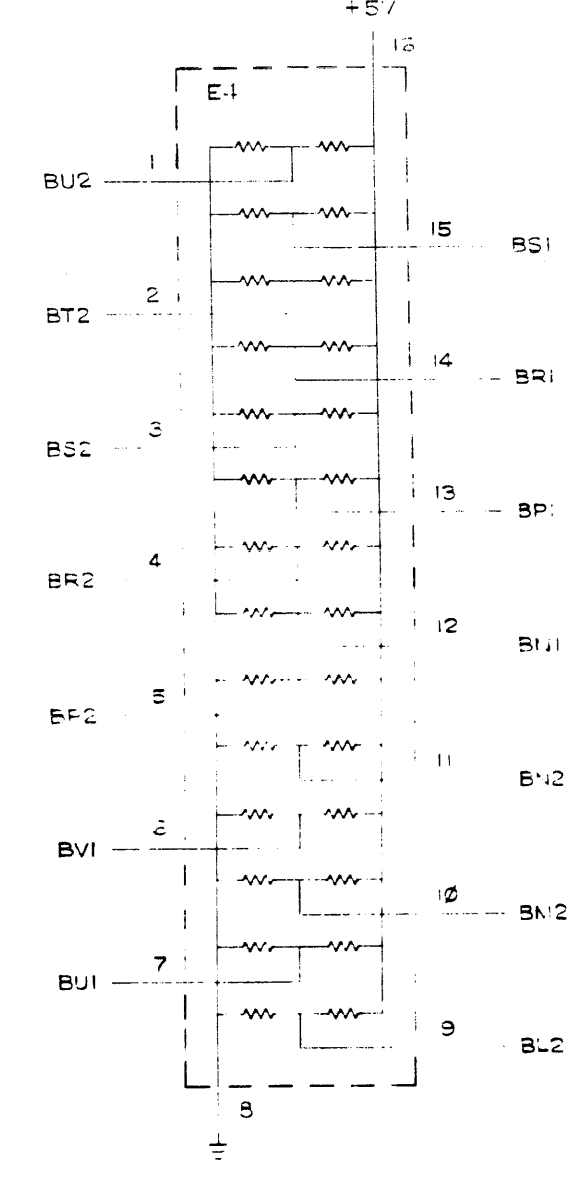
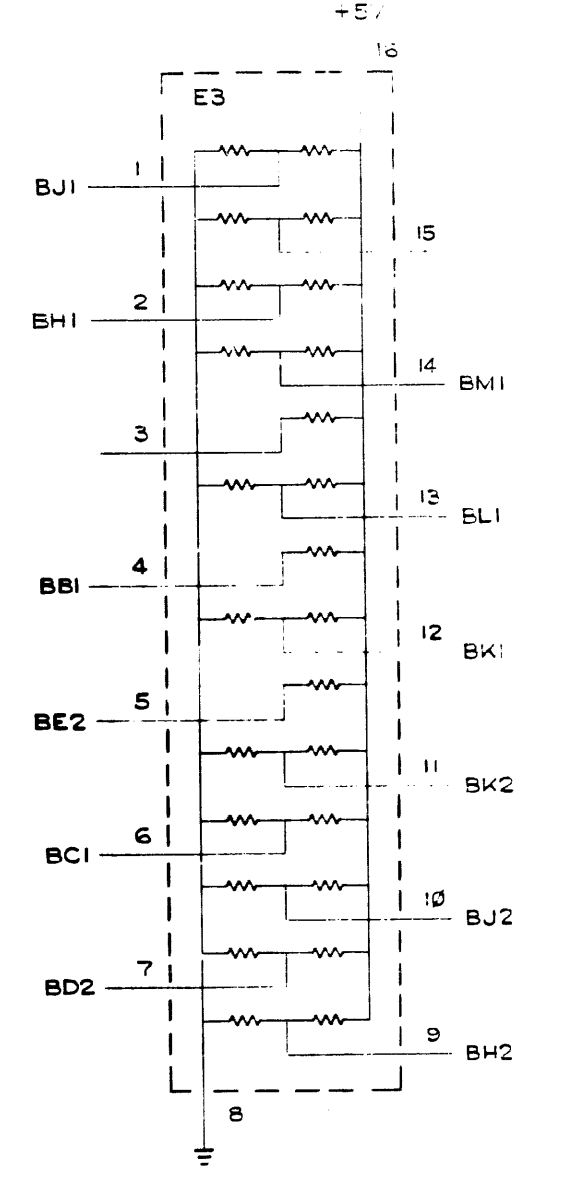
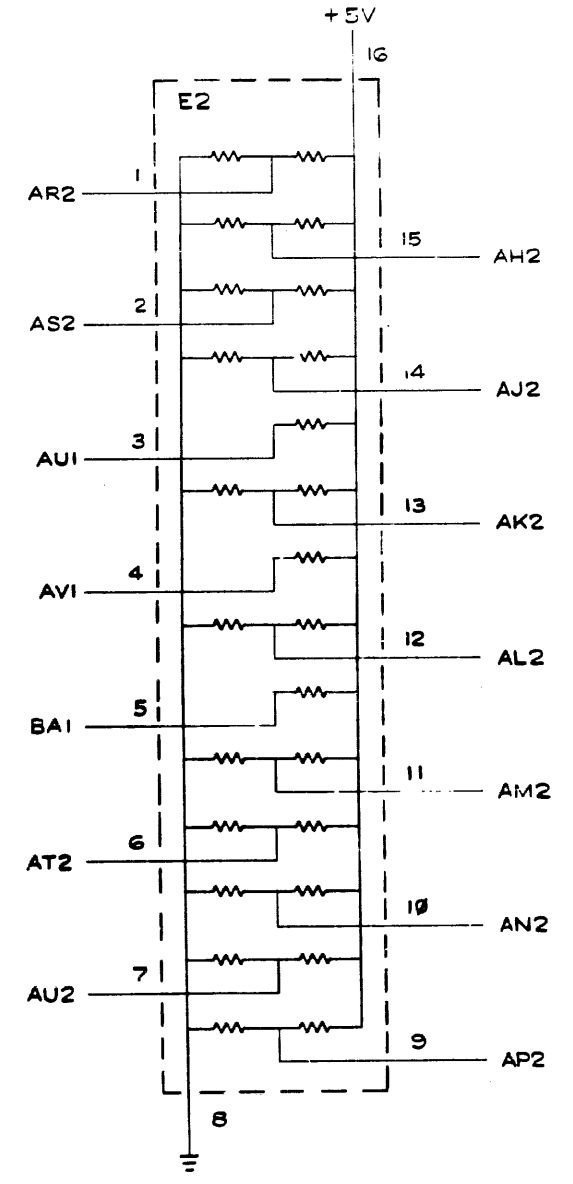
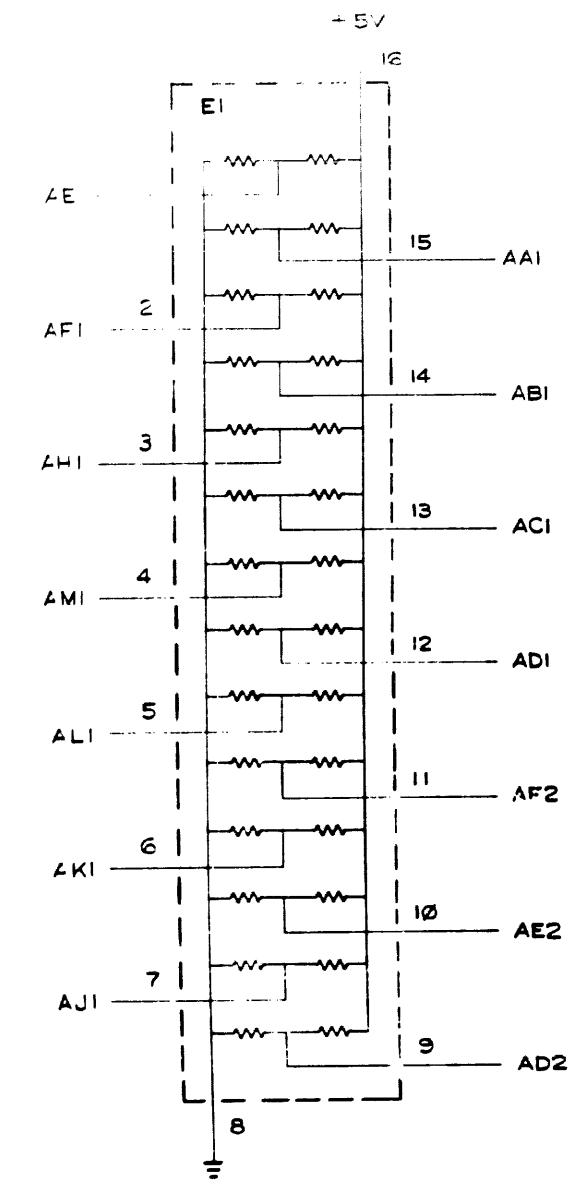
4

3

2

1

7 6 5 4 3 2 1



C
B
A

D
C
B
A

REVISIONS	
CHANGE NO.	REV.

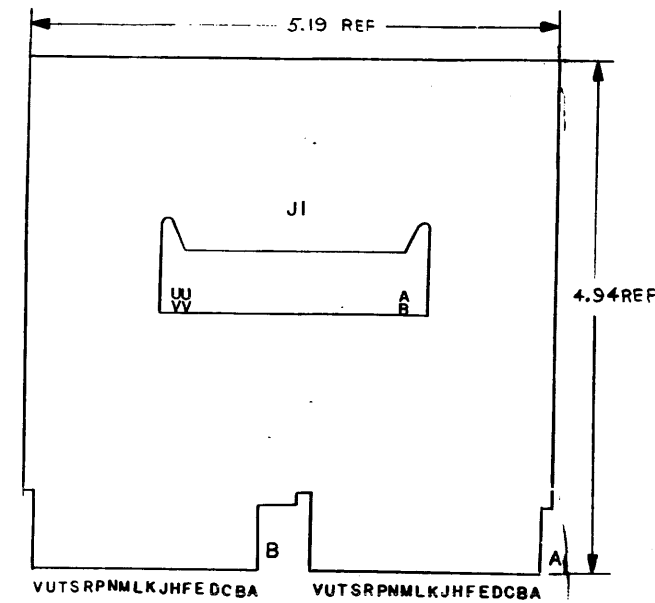
TITLE BUS TERMINATOR	SIZE CODE DCS	NUMBER M330-0-1	REV. E
SCALE	SHEET 2 OF 2	DIST	

8 7 6 5 4 3 2 1

NOTES:
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1-0-166 W SCD 2

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-AH-M997-0-6	3
REF	ETCHED CIRCUIT BOARD	50.0338	4
REF	CONN., RT. ANGLE HEADER	12-09941	5



- AD1 > J1-A
- AD2 > J1-B
- AE1 > J1-C
- AE2 > J1-D
- AH1 > J1-E
- AF2 > J1-F
- AK1 > J1-H
- AH2 > J1-J
- AL1 > J1-K
- AK2 > J1-L
- AM1 > J1-M
- AL2 > J1-N
- AN1 > J1-P
- AN2 > J1-R
- AP1 > J1-S
- AP2 > J1-T
- AR1 > J1-U
- AR2 > J1-V
- AS1 > J1-W
- AS2 > J1-X

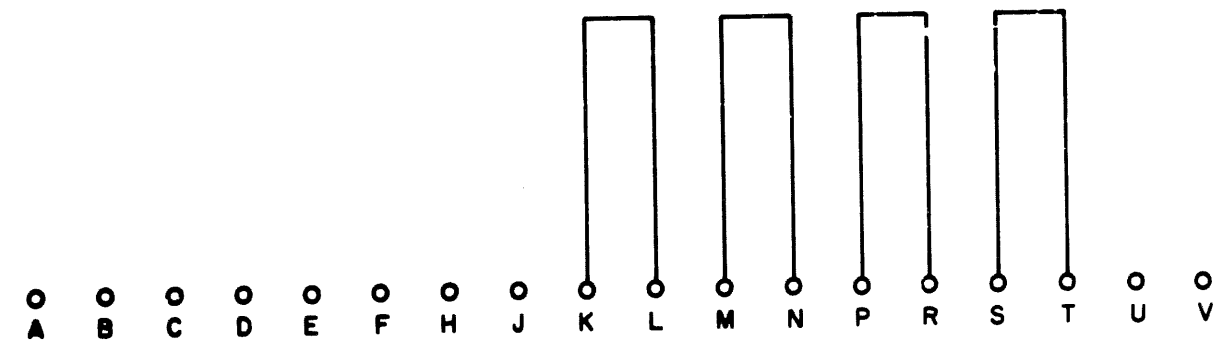
- BD1 > J1-Y
- BD2 > J1-Z
- BE1 > J1-AA
- BE2 > J1-BB
- BH1 > J1-CC
- BF2 > J1-DD
- BK1 > J1-EE
- BH2 > J1-FF
- BL1 > J1-HH
- BK2 > J1-JJ
- BM1 > J1-KK
- BL2 > J1-LL
- BN1 > J1-MM
- BN2 > J1-NN
- BP1 > J1-PP
- BP2 > J1-RR
- BR1 > J1-SS
- BR2 > J1-TT
- BS1 > J1-UU
- BS2 > J1-VV

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.
PARTS LIST				
ETCH BOARD REV B				
DRN	Silvia	DATE	3-22-74	
CHK'D	JCS	DATE	3/29/74	
ENG	C. Schme	DATE	3/29/74	
PROJ. ENG	C. Schme	DATE	3/29/74	
PROD	C. Schme	DATE	3/29/74	
NEXT HIGHER ASSY				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SEMICONDUCTOR CONVERSION CHART				
SCALE	NONE			
SHEET	1	OF	1	
SIZE CODE		NUMBER	REV.	
DCS		M997-0-1	A	

DCS M997-0-1

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REVISIONS	CHK	CHG NO.	REV.

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

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital
EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

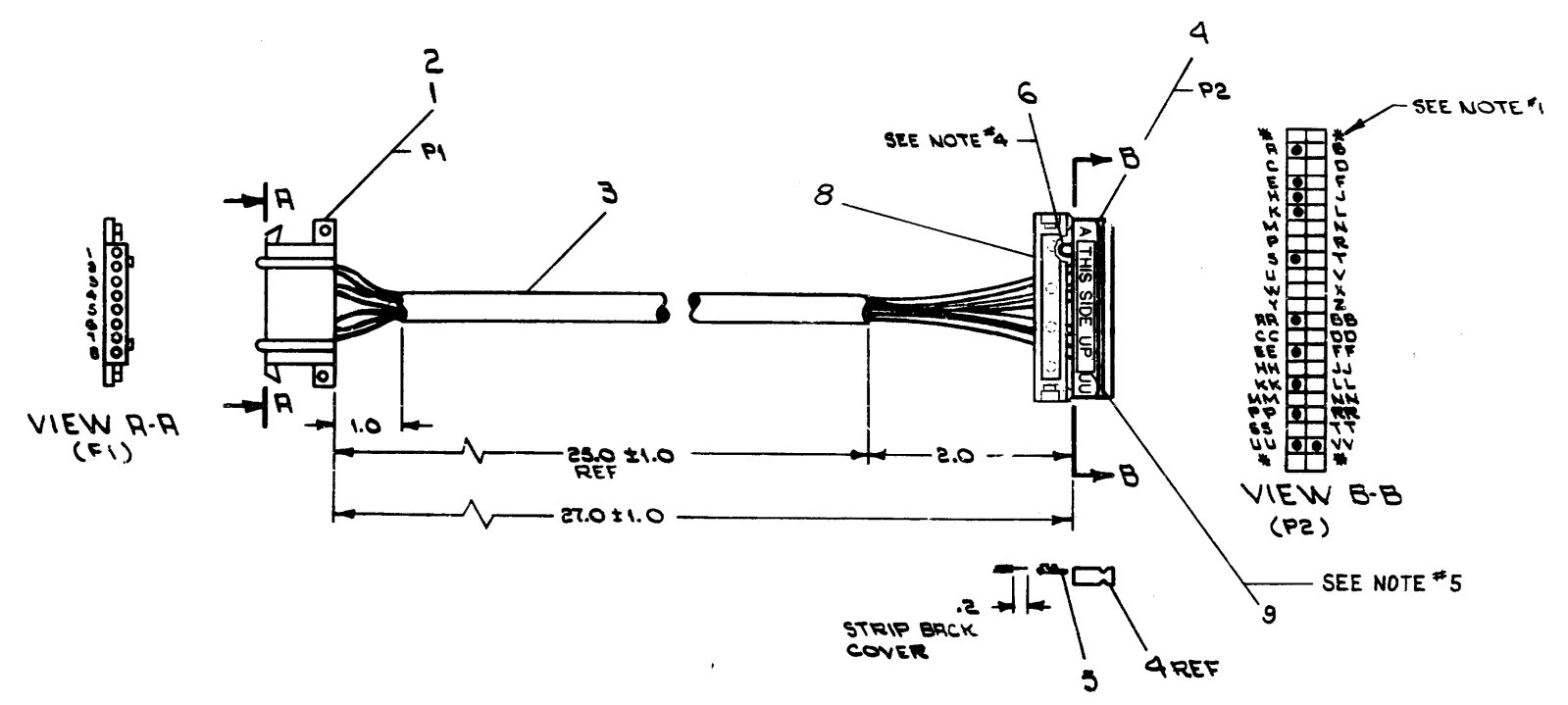
TITLE GRANT CONTINUITY G727			
SIZE B	CODE CS	NUMBER G727-0-1	REV
PRINTED CIRCUIT REV			A



E. P. ... DIST 214344353

WIRE TABLE							
ITEM NO.	DESCRIPTION	PAIR NO.	FROM		TO		
			CONNECTION	WITH	CONNECTION	WITH	
1	22	BLK	P1-2	2	P2-KK	5	
2	↑	RED	P1-3	2	P2-S	↑	
3,7	↑	SHIELD	SEE NOTE #2	-	P2-R(NOTE #3)	↑	
3	↑	BLK	P1-4	2	P2-ZE	↑	
3	↑	WHT	P1-5	2	P2-RR	↑	
3,7	↑	SHIELD	SEE NOTE #2	-	P2-U(NOTE #3)	↑	
3	↑	BLK	P1-6	2	P2-PP	↑	
3	↑	GRN	P1-7	2	P2-K	↑	
3,7	↑	SHIELD	SEE NOTE #2	-	P2-V(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.
	LABEL, THIS SIDE UP	361567	1
	TRAIN RELIEF	21166	1
	AIR TUB. #8 TEF. THINWALL WRT	9107278-11	7
	AIR WIRE #22 AWG STRO TEF BLK	9107350-00	6
	11 SOCKET, CRIMP #4721C	1210089-07	5
	1 HOUSING BERG #650-23-15		4
	AIR CABLE BELLEN #877-3PR EALD	9107123-0	3
	6 CONTACT MATEN LOCK (FEMALE)	1209379	2
	1 CONN. MATEN LOCK (FEMALE)	1209340-00	1

J. R. CLARK
 P.M. 7008360 0001 C
 E. ALL AM 10-29-73
 B. REGAN
 7008360-00002 D
 R. REGAN
 3/2/74
 7008360-00003 E
 R. REGAN
 10/2/74
 R. REGAN
 10/2/74

FIRST USED ON OPTION/MODEL PDP-8E

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGLES REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL SEE PARTS LIST

FINISH

DATE 10/2/74

DATE 10/2/74

DATE 10/2/74

DATE 10/2/74

digital EQUIPMENT CORPORATION

CABLE ASSEMBLY (KL8E)

SIZE CODE DIA 7008360-0-0

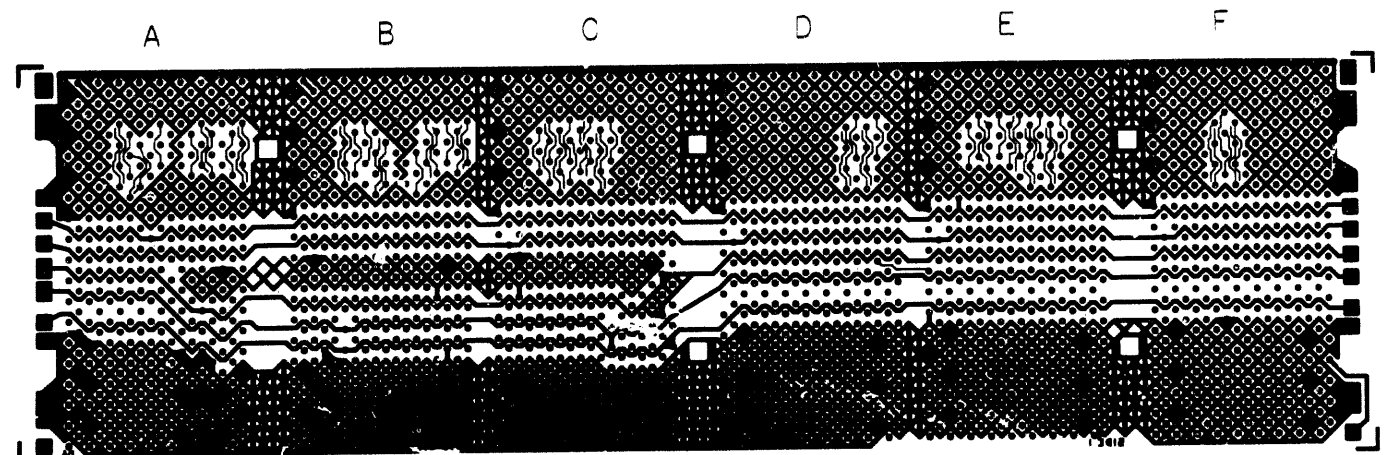
SCALE NONE

SHEET 2 OF 2

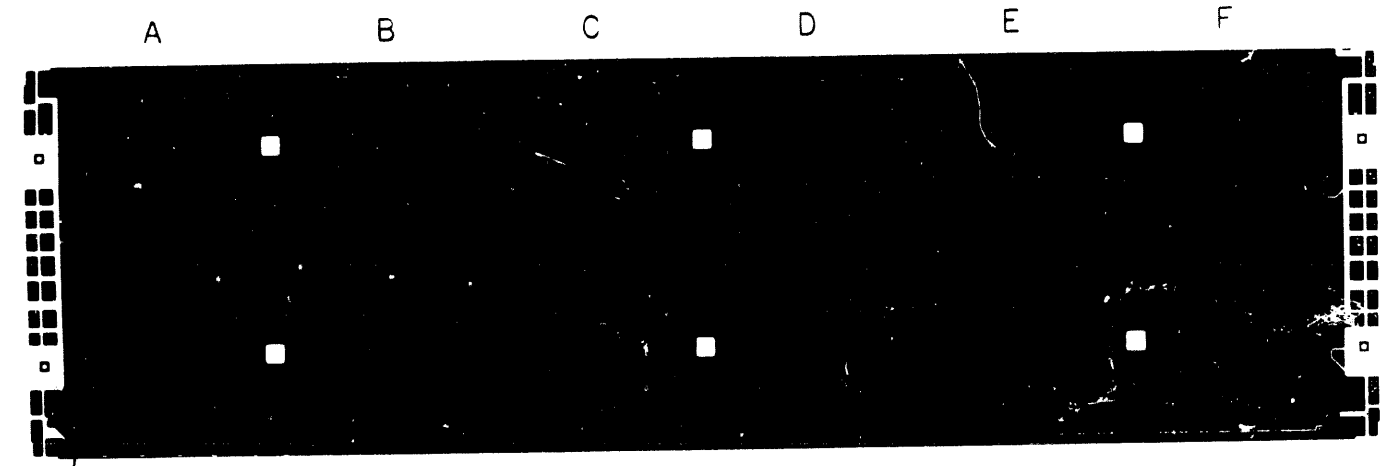
DIA 7008360-0-0

ALL DIMENSIONS SHOWN ARE THE DIMENSIONS OF THE UNFINISHED BOARD UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN ANGLES OR IN PARENTHESES REFER TO DIMENSIONS AT MANUFACTURE OR SALE OF THE BOARD.

NOTES:



SIDE 1



SIDE 2

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REF	DESCRIPTION	PART NO.	QTY	ITEM NO.
	AWT REV STATUS	A-WT-7009922-0	5	
	MODULE ECO HISTORY	B-MH-5410972-0-6	4	
	ASSY/DRILLING HOLE LAYOUT	D-AM-5410972-0-5	3	
	X-Y COORDINATE HOLE LOCATION	K-CO-5410972-0-4	2	
	ETCHED CIRCUIT BOARD	5016473	1	

DATE	REVISION	BY	CHK	REVISION
11/05-5				

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SCALE	1/1	SCALE	

digital

TITLE

CIRCUIT SCHEMATIC

SIZE CODE NUMBER REV.
D CS 5410972-0-1 B

SEMICONDUCTOR CONVERSION CHART

SHEET OF LAST

NUMBER 5410972-0-1 REV. B

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE

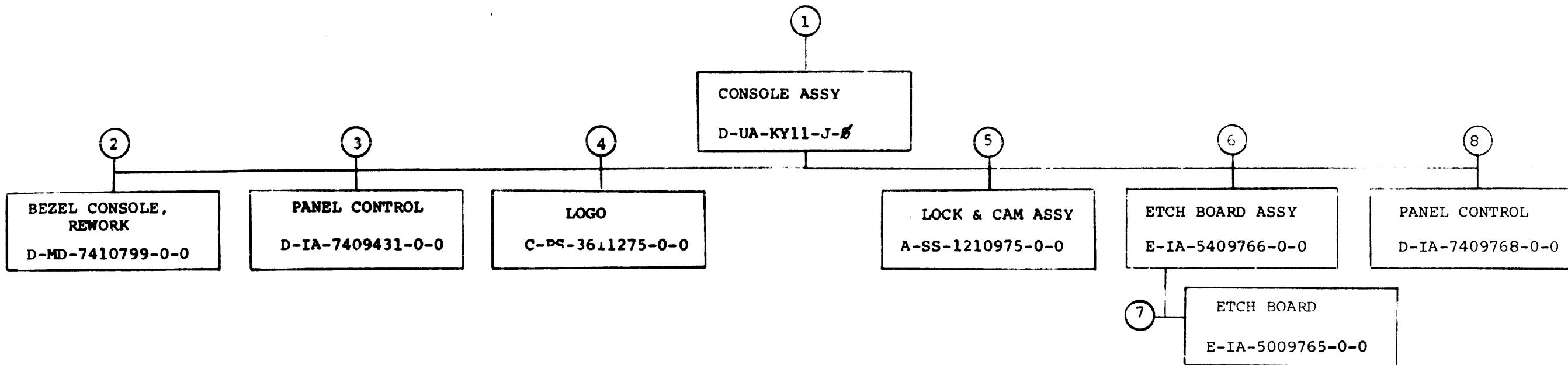
SEQUENCE

CONSOLE ASSY
CONSOLE ASSY (PL)
JUMPER POWER
I/O CABLE
CIRCUIT SCHEMATIC
ETCH BOARD ASSY

D-UA-KY11-J-Ø
A-PL-KY11-J-Ø
B-IA-7409730-0-0
C-UA-BCØ8R-Ø3-Ø
D-CS-5409766-Ø-1
E-IA-5409766-0-0

UNIT VARIATIONS		PRINT SET		
VAR	TITLE	KY11-J		
KY11-JA	CONSOLE ASSY 11/Ø5	<input checked="" type="checkbox"/>		
KY11-JB	CONSOLE ASSY 11/1Ø	<input checked="" type="checkbox"/>		
KY11-JC	CONSOLE ASSY GT4Ø	<input checked="" type="checkbox"/>		
KY11-JF	CONSOLE ASSY UNICHANNEL 15	<input checked="" type="checkbox"/>		
KY11-JD	CONSOLE ASSY 11/Ø5 (10.5)	<input checked="" type="checkbox"/>		
KY11-JE	CONSOLE ASSY 11/1Ø (10.5)	<input checked="" type="checkbox"/>		

REVISIONS	DATE	CHG. NO.	REV	USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE	CODE	NUMBER	REV
	2/74	KY11J-0004	A		11/Ø5	J. CAHILL						4-23-73	CONSULE ASSY
	3/74	KY11J-0005	B		CHK'D.	DATE					
	3/74	KY11J-0006	C		J. CAHILL	4-23-73					
	3/74	KY11J-0007	D		PROJ ENG.	DATE					
						8-29-73					
					PROD.	DATE					
						8-29-73					
					FIELD REV.	DATE					
						7-26-73					
				SHEET 1 OF 3				DIST			



TITLE	SIZE CODE	NUMBER	REV
CONSOLE ASSY	B DD	KY11-J	D
SHEET 2 OF 4			

CUSTOMER PRINT SET	ELECTRICAL					CUSTOMER PRINT SET	MECHANICAL							
XY11-J	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHEETS	OPTION NO / FILE DATE	XY11-J	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHEETS	DESCRIPTION	OPTION NO / FILE DATE
		1	D-UA-KY11-J-Ø	N	1	CONSOLE ASSY			1	D-UA-KY11-J-Ø	N	1	CONSOLE ASSY	
X			A-PL-KY11-J-Ø	N	2	CONSOLF ASSY (PL)				A-PL-KY11-J-Ø	N	2	CONSOLE ASSY (PL)	
X			B-IA-7409730-0-0	#	1	JUMPER POWER				C-MD-7409534-0-0		1	ACTUATOR (REWORK)	
X			C-UA-BCØ8R-Ø3-Ø	#	1	I/O CABLE				B-IA-7409444-0-0		1	DETENT	
										C-UA-BCØ8R-Ø3-Ø		1	I/O CABLE	
										B-MD-7409867-0-0		1	EXTENDED LEAF REWORK (ACTUATOR)	
										B-MD-7409868-0-0		1	SWITCH ADAPTER PLATE	
X		6	E-IA-5409766-0-0	#	1	ETCH BOARD ASSY				C-MD-7411728-0-0		1	KEY LOCK SWITCH, REWORK	
X			D-CS-5409766-Ø-1	#	1	CIRCUIT SCHEMATIC								
			B-MH-5409766-Ø-6	#	1	MODULE ECO HISTORY								
										2	D-MD-7410799-0-0		1	BEZEL CONSOLE REWORK
										J-PS-1210922-0-0		1	BEZEL CONSOLE CASTING	
		7	E-IA-5009765-0-0		1	ETCH BOARD								
										3	D-IA-7409431-0-0		1	PANEL CONTROL
										C-SS-7409431-0-1		1	SILK SCREEN (MAGENTA)	
										C-SS-7409431-0-2		1	SILK SCREEN (BLK) REAR	
										C-SS-7409431-0-3		1	SILK SCREEN (11Ø5) VERMILLION	
										4	C-PS-3611275-0-0		1	LOGO
										A-SS-3611275-0-1		1	SILK SCREEN	
										A-SS-3611275-0-2		1	SILK SCREEN	
										A-SS-3611275-0-3		1	SILK SCREEN	
										A-SS-3611275-0-4		1	SILK SCREEN	
										A-SS-3611275-0-5		1	SILK SCREEN	
										5	A-PS-1210975-0-0		1	LOCK & CAM ASSY
										6	E-IA-5409766-0-0		1	ETCH BOARD ASSY
										7	E-IA-5009765-0-0		1	ETCH BOARD
										8	D-IA-7409768-0-0		1	PANEL CONTROL
										C-SS-7409768-0-1		1	SILK SCREEN	
										C-SS-7409768-0-2		1	SILK SCREEN	
										C-SS-7409768-0-3		1	SILK SCREEN	

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

TITLE
 CONSOLE ASSY

SHEET 3 OF 3
 B DD

SIZE CODE
 B DD

NUMBER
 KY11-J

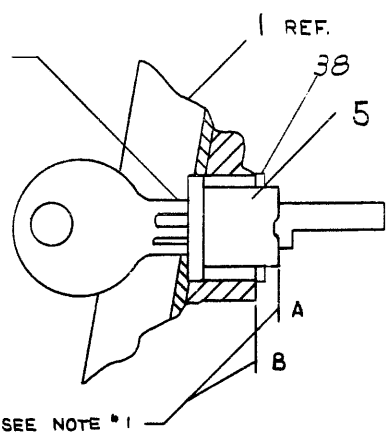
REV
 D

... and variations herein are the property of Digital Equipment Corporation and shall not be used in whole or in part as a basis for the manufacture of parts without the written consent of Digital Equipment Corporation.

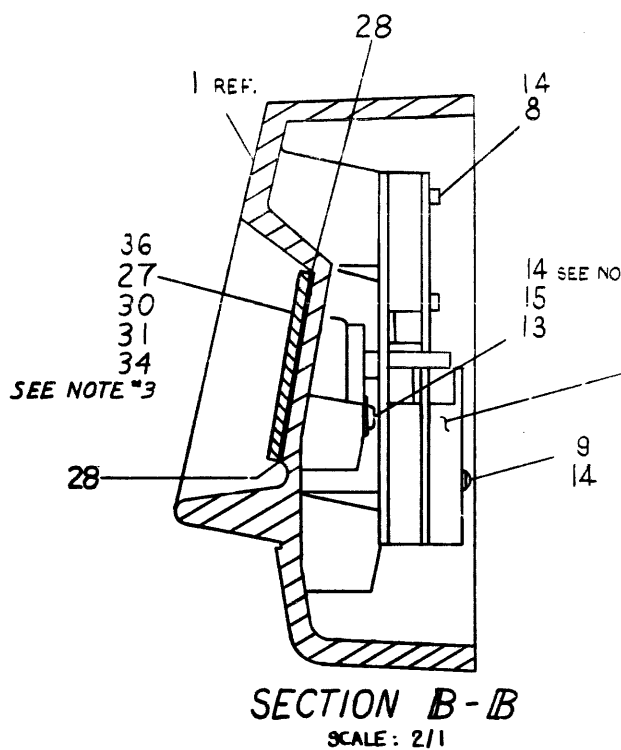
LEGEND

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



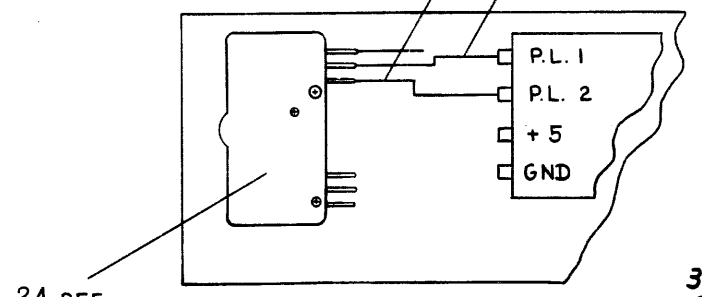
SECTION C-C
SCALE: 2/1



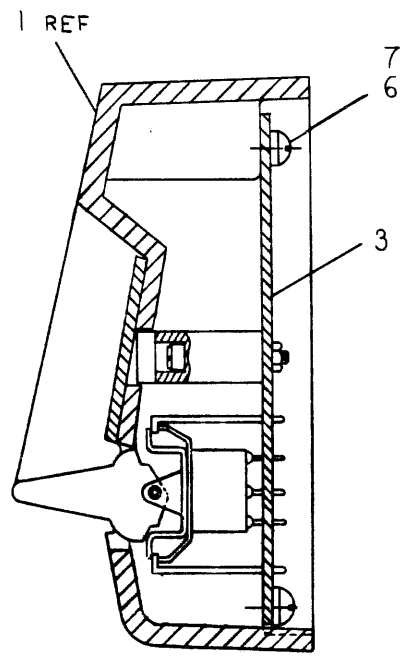
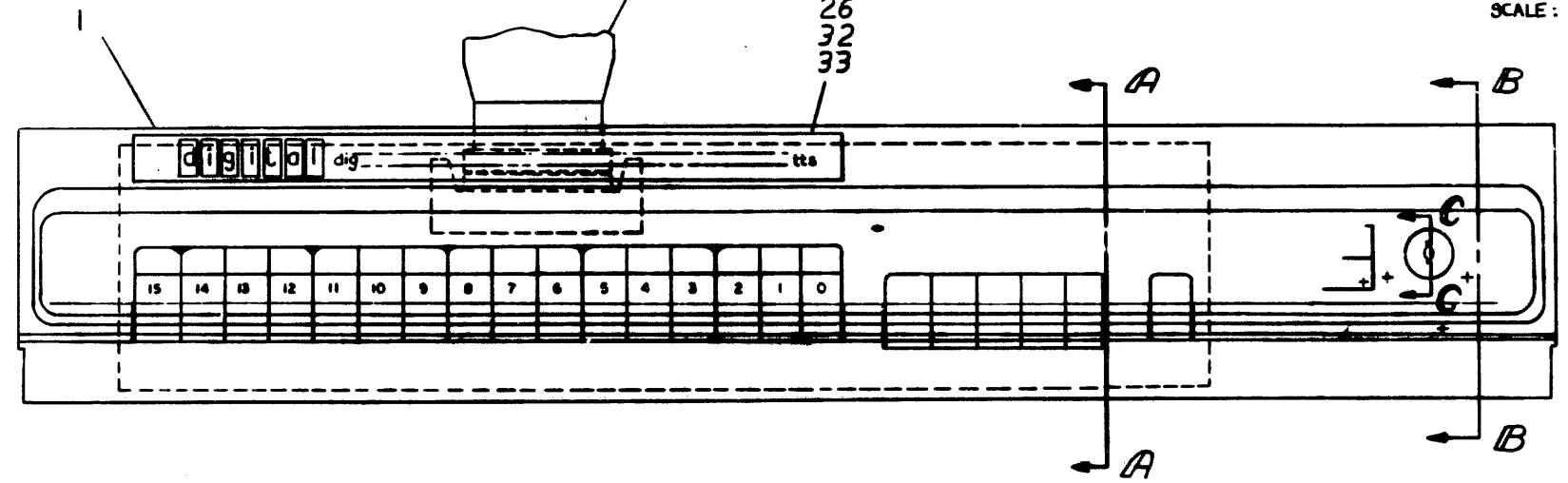
SECTION B-B
SCALE: 2/1

NOTES:

1. CASTING KEY HOLE, SURFACES A & B TO BE COATED WITH LUBE (ITEM #18)
2. LOCK WASHER IS NOT USED ON SCREW UNDER SWITCH.
3. INSERT CONTROL PANEL (ITEM #27,30,31,34) USING ADHESIVE TRANSFER TAPE (ITEM #29) ON REAR SURFACE & PRESS FIRMLY IN PLACE.
4. INSTALL 18 INCHES OF TAPE (ITEM #39) ON UNSHIELDED SIDE OF I/O CABLE BEGINNING AT FAR END OF CABLE FROM CONSOLE. ALL VARIATIONS EXCEPT JD AND JE.



VIEW D-D
SCALE: NONE



SECTION A-A
SCALE: 2/1

REV.	DATE	BY	CHKD.	DESCRIPTION
1	11-16-71	CAMILL		REVISED
2	12-14-72	TESCHNER		REVISED
3	1-5-72	GRAHAM		REVISED
4	5-5-72	WEEKS		REVISED
5	10-27-72	PETERSON		REVISED
6	1-21-72	GRAHAM		REVISED
7	4-30-74	GRAHAM		REVISED
8	5-27-74	GRAHAM		REVISED
9	5-27-74	GRAHAM		REVISED

FIRST USED ON OPTION/MODEL
PDP 1105

UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 90°
FINISH SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP EDGES

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		
	DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
	TITLE CONSOLE ASSY (PDP 1105)		
	SIZE CODE DUA	NUMBER KYII-J-0	REV N
	SCALE 1/1	DWG. C	
	SHEET 1 OF 1		

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	KY11-JA	KY11-JB	KY11-JC	KY11-JD	KY11-JE	KY11-JF	KY11-JG	KY11-JH	KY11-JI	KY11-JJ
1	D-MD-7410799-0-0	CONSOLE BEZEL REWORK	1	1	1	1	1	1	1	1	1	1
2	B-IA-7409374-0	BEZEL CONSOLE (11-15)	1	1	1	1	1	1	1	1	1	1
3	E-IA-5409766-0-0	CONSOLE ETCH BOARD ASSY	1	1	1	1	1	1	1	1	1	1
4	E-IA-7409374-0	CONSOLE ETCH BOARD ASSY (11-15)	1	1	1	1	1	1	1	1	1	1
5	A-PS-1210975-0-0	LOCK & CAM ASS'Y	1	1	1	1	1	1	1	1	1	1
6	9006020-1	SCR, PHL PAN HD. #6-32 X 1/4 LG	6	6	6	6	6	6	6	6	6	6
7	9006633	WASH INT TOOTH LOCK #6	6	6	6	6	6	6	6	6	6	6
8	9006003-1	SCR PHL PAN HD *2-56 X 3/8 LG	2	2	2	2	2	2	2	2	2	2
9	9008025-1	SCR PHL PAN HD #2-56 X 5/8 LG	2	2	2	2	2	2	2	2	2	2
10	1210790-0-0	SWITCH DPDT #10	1	1	1	1	1	1	1	1	1	1
11	G-MD-7409574-0-0	ACTUATOR NO-MARK	1	1	1	1	1	1	1	1	1	1
12	1210905-1	INSULATOR	2	2	2	2	2	2	2	2	2	2
13	B-IA-7409444-0-0	DETENT	1	1	1	1	1	1	1	1	1	1
14	9006686	WASH #2 SPLIT LOCK	5	5	5	5	5	5	5	5	5	5
15	9006000-4	SCR BINDER HD #2-56 X3/16 LG	2	2	2	2	2	2	2	2	2	2
16	1210904-1	SWITCH DPDT #10 (GROSS CONTRACT 291 8201-001)	1	1	1	1	1	1	1	1	1	1
17	C-UA-BC08R-03	I/O CABLE (3'-0" LG)	1	1	1	1	1	1	1	1	1	1
18	4901077	LUBE (FOR CAM LOCK)	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
19	B-IA-7409730-0-0	JUMPER, POWER	2	2	2	2	2	2	2	2	2	2
20	B-MD-7409068-0-0	SWITCH ADAPTER PLATE	1	1	1	1	1	1	1	1	1	1
21	B-MD-7409067-0-0	EXTENDER LEAF REWORK (DETENT)	1	1	1	1	1	1	1	1	1	1
22	9006449-0	SCR PAN HD #2-56 X 1/4 LG.	2	2	2	2	2	2	2	2	2	2

TITLE
CONSOLE ASSY (PDP11/05)

ASSY NO. D-UA-KY11-J-0
SHEET 1 OF 2

SIZE CODE A PL
DIST. 1 G

NUMBER KY11-J-0
REV. KY11-J-N
ECC NO. 00007

DEC FORM DEC 16 (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	KY11-JA	KY11-JB	KY11-JC	KY11-JD	KY11-JE	KY11-JF	KY11-JG	KY11-JH	KY11-JI	KY11-JJ
23	B-IA-7409374-0-0	BEZEL CONSOLE (11-15)	1	1	1	1	1	1	1	1	1	1
24	A-PS-1210982-0-0	KEY LOCK SWITCH	1	1	1	1	1	1	1	1	1	1
25	B-IA-7409374-0-0	BEZEL CONSOLE (UC15)	1	1	1	1	1	1	1	1	1	1
26	C-PS-3611275-0-0	LOGO (PDP-1105) NOTE VARIATIONS	1	1	1	1	1	1	1	1	1	1
27	D-IA-7409431-1-0	PANEL CONTROL (1105)	1	1	1	1	1	1	1	1	1	1
28	9009210-1	ADHESIVE TRANSFER TAPE 1/2 WIDE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
29	1211052	CONSOLE PROTECTIVE COVER	1	1	1	1	1	1	1	1	1	1
30	D-IA-7409431-3-0	PANEL CONTROL (1110)	X	1	X	X	X	X	X	X	X	X
31	D-IA-7409768-0-0	PANEL CONTROL (GT40)	X	X	1	X	X	X	X	X	X	X
32	C-PS-3611275-4-0	LOGO (DEC GRAPHIC)	X	X	1	X	X	X	X	X	X	X
33	C-PS-3611275-5-0	LOGO (UC15)	X	X	X	1	X	X	X	X	X	X
34	D-IA-7409431-4-0	PANEL CONTROL (UC15)	X	X	X	1	X	X	X	X	X	X
35	C-UA-BC08R-64	I/O CABLE (4'-0" LG)	X	X	X	X	X	X	X	1	1	X
36	D-IA-7411393-0-0	INDICATOR PANEL (INDUSTRIAL)	X	X	X	X	X	X	X	X	X	X
37	C-MD-7411728-0-0	KEY LOCK SWITCH, REWORK	X	X	X	X	X	X	X	X	X	X
38	9009589	RETAINING RING .025 THK	1	1	1	1	1	1	1	1	1	1
39	9009339	TAPE CLOTH WATERPROOF 2" WIDE GRAY	A/R	A/R	A/R	A/R	A/R	A/R	A/R	X	X	A/R

TITLE
CONSOLE ASSY (PDP11/05)

ASSY NO. D-UA-KY11-J-0
SHEET 2 OF 2

SIZE CODE A PL
DIST. 2 G

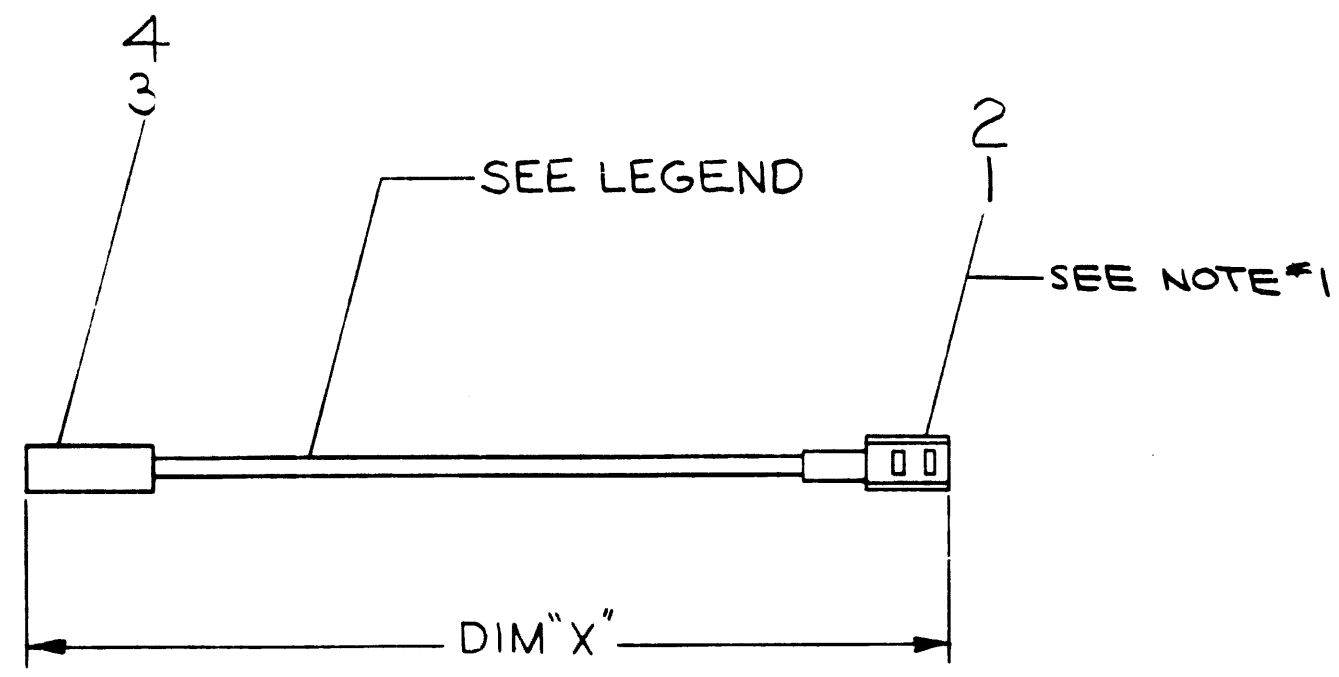
NUMBER KY11-J-0
REV. KY11-J-N
ECC NO. 00007

DEC FORM DEC 16 (325) 1031 N870
DRA 110

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LEGEND			
NUMBER	DIM "X"	COLOR	ITEM
7409730-Ø1	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-11Ø5

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			

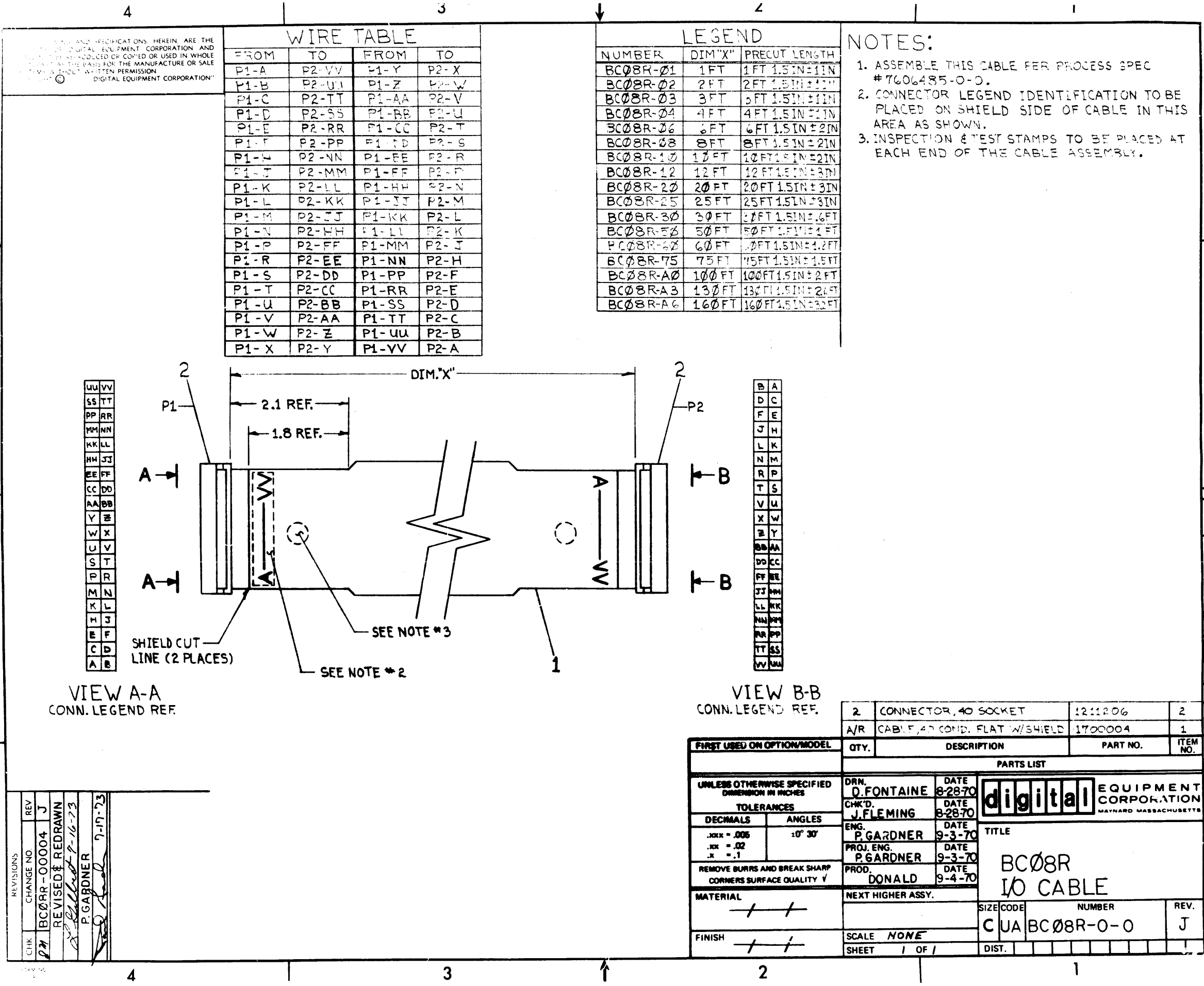
DRN.	DATE
<i>CB McCoy</i>	4-11-72
CHK'D.	DATE
<i>C. Teschner</i>	4-19-72
ENG.	DATE
<i>J. F. ...</i>	4-19-72
PROJ. ENG.	DATE
<i>D. V. ...</i>	4-28-72
PROD.	DATE
<i>J. ...</i>	4-28-72

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

TITLE
 JUMPER, POWER

NEXT HIGHER ASSEMBLY		SIZE CODE	NUMBER	REV
<i>/ /</i>		BIA	7409730-0-C	
SCALE	NONE			
SHEET	1 OF	DIST.		

REV.	
CHANGE NO.	
CHK	



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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-IJ	P2-M
P1-K	P2-JJ	P1-KK	P2-L
P1-L	P2-IH	P1-LL	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
BC08R-01	1 FT	1 FT 1.5 IN ± 1 IN
BC08R-02	2 FT	2 FT 1.5 IN ± 1 IN
BC08R-03	3 FT	3 FT 1.5 IN ± 1 IN
BC08R-04	4 FT	4 FT 1.5 IN ± 1 IN
BC08R-06	6 FT	6 FT 1.5 IN ± 2 IN
BC08R-08	8 FT	8 FT 1.5 IN ± 2 IN
BC08R-10	10 FT	10 FT 1.5 IN ± 2 IN
BC08R-12	12 FT	12 FT 1.5 IN ± 3 IN
BC08R-20	20 FT	20 FT 1.5 IN ± 3 IN
BC08R-25	25 FT	25 FT 1.5 IN ± 3 IN
BC08R-30	30 FT	30 FT 1.5 IN ± 4 FT
BC08R-50	50 FT	50 FT 1.5 IN ± 4 FT
BC08R-60	60 FT	60 FT 1.5 IN ± 4 FT
BC08R-75	75 FT	75 FT 1.5 IN ± 4 FT
BC08R-A0	100 FT	100 FT 1.5 IN ± 2 FT
BC08R-A3	130 FT	130 FT 1.5 IN ± 2 FT
BC08R-A6	160 FT	160 FT 1.5 IN ± 3 FT

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

REV	CHANGE NO	CHK
J	0004	P.M.
J	0004	P.M.
J	0004	P.M.

REVISIONS

REVISED & REDRAWN
P. GARDNER 7-16-73

P. GARDNER 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

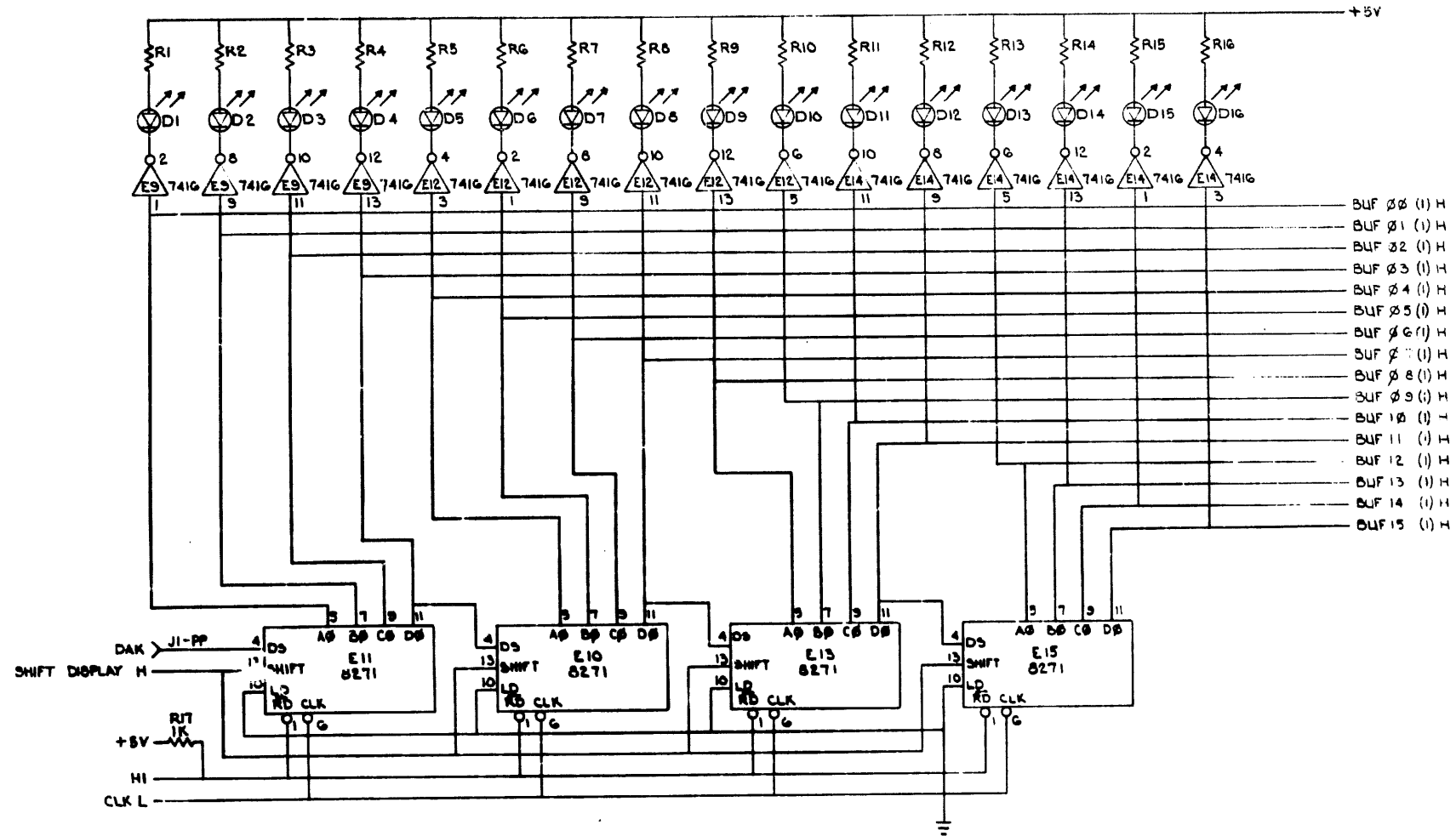
PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. D. FONTAINE DATE 8-28-70	<p>digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS</p>
TOLERANCES	CHK'D. J. FLEMING DATE 8-28-70	
DECIMALS .005	ENG. P. GARDNER DATE 9-3-70	
ANGLES 10° 30'	PROJ. ENG. P. GARDNER DATE 9-3-70	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1	PROD. DONALD DATE 9-4-70	

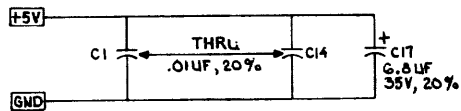
TITLE: BC08R IO CABLE

MATERIAL	NEXT HIGHER ASSY.	SIZE CODE	NUMBER	REV.
FINISH	SCALE NONE	C UA	BC08R-0-0	J
SHEET 1 OF 1	DIST.			

Unless otherwise indicated, herein, all the parts shall be as specified in the drawings and shall not be altered or changed in whole or in part without the approval of the manufacturer or his authorized representative.



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



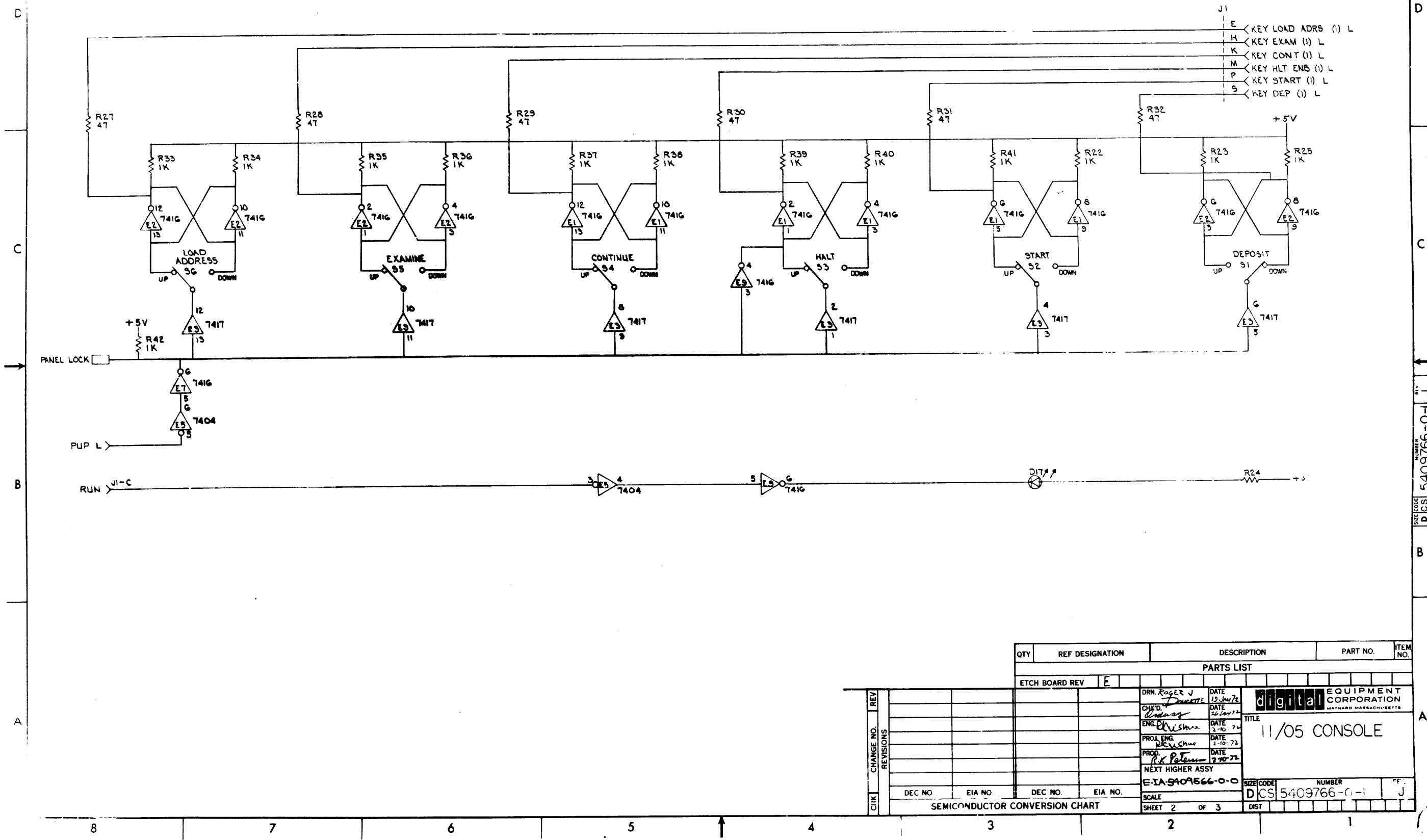
B. ARMSTRONG	5409766-00007 J
G. GRAHAM	5409766-00008 H
R. KRISHNA	5409766-00009 F
G. GRAHAM	5409766-00010 E
R. KRISHNA	5409766-00011 D
R. KRISHNA	5409766-00012 C
R. KRISHNA	5409766-00013 B
R. KRISHNA	5409766-00014 A

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
DRN: Roger J. Dreyer		DATE: 18 Jun 72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE: 11/05 CONSOLE	
CHKD: [Signature]		DATE: 26 Jun 72		
ENGR: R. Krishna		DATE: 2-10-72		
PROB ENG: R. Krishna		DATE: 2-10-72		
NEXT HIGHER ASSY: 5409766-0-0		DATE: 2-10-72	SCALE: _____ SHEET: _____ OF 3	
SEMICONDUCTOR CONVERSION CHART		SIZE CODE: DCS 5409766-0-1 NUMBER: 5409766-0-1 J		

NUMBER: 5409766-0-1 J
 SIZE CODE: DCS

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1-0-9926079

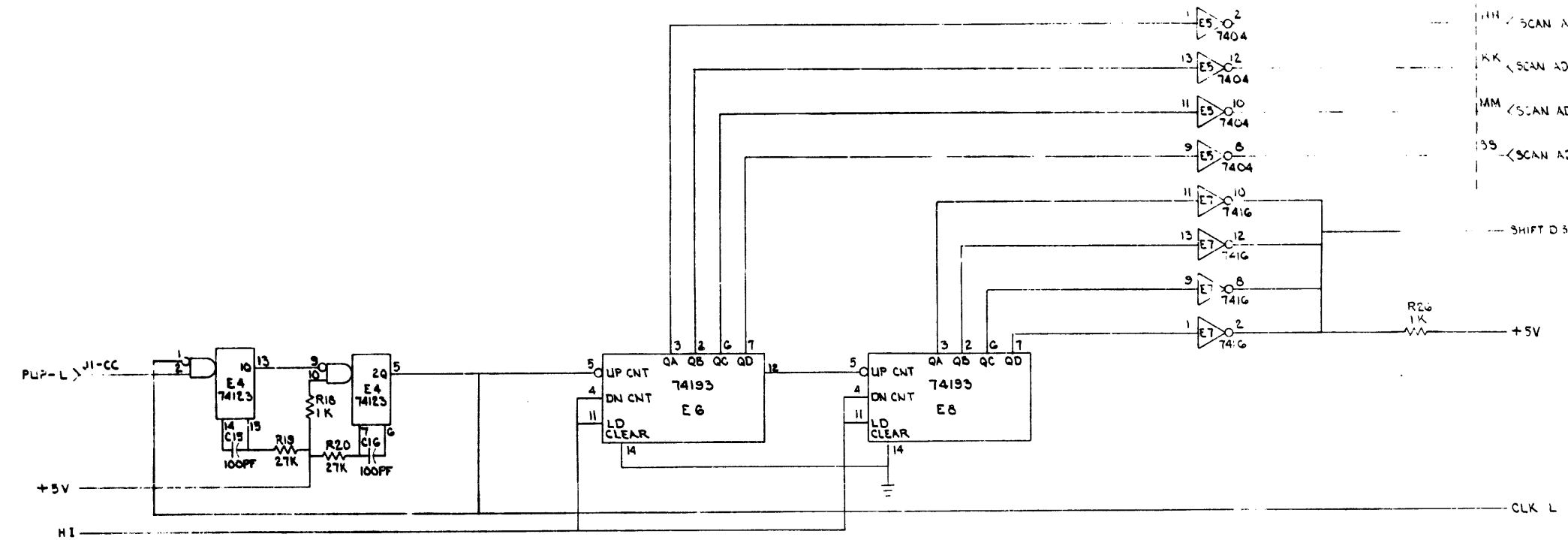
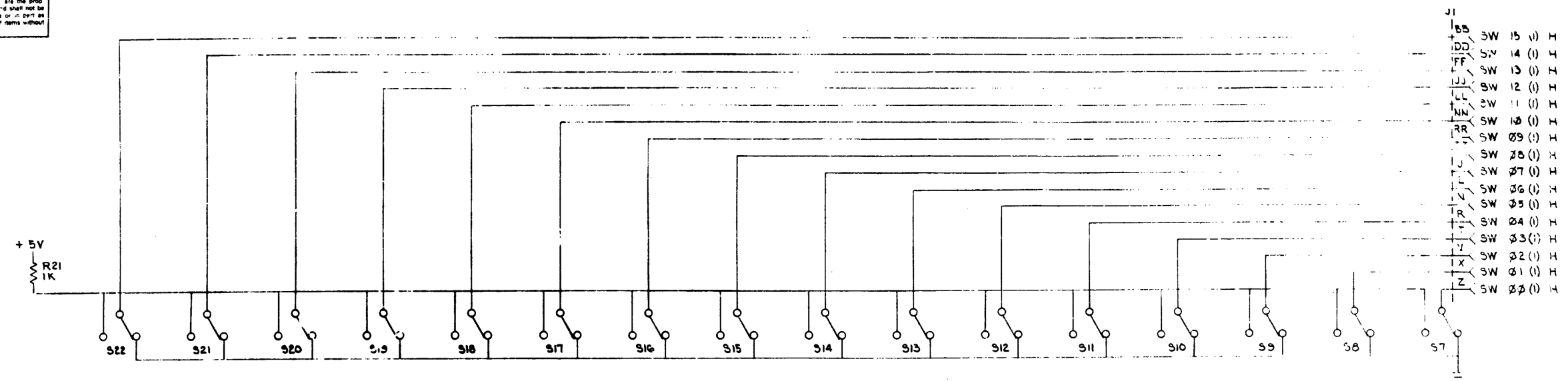


QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV E				
DRN	ROGER J	DATE	10/14/72	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS 11/05 CONSOLE
CHK'D	<i>[Signature]</i>	DATE	12/14/72	
ENG	<i>[Signature]</i>	DATE	3-10-72	
PROL ENG	<i>[Signature]</i>	DATE	2-10-72	
PROD	<i>[Signature]</i>	DATE	7-20-72	
NEXT HIGHER ASSY				
DEC NO		EIA NO	DEC NO	EIA NO
SEMICONDUCTOR CONVERSION CHART		SCALE	DIT	
SHEET 2 OF 3		DCS 5409766-0-1		

DCS 5409766-0-1 J
 NUMBER
 11/05 CONSOLE

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

1-0-99766-0-1



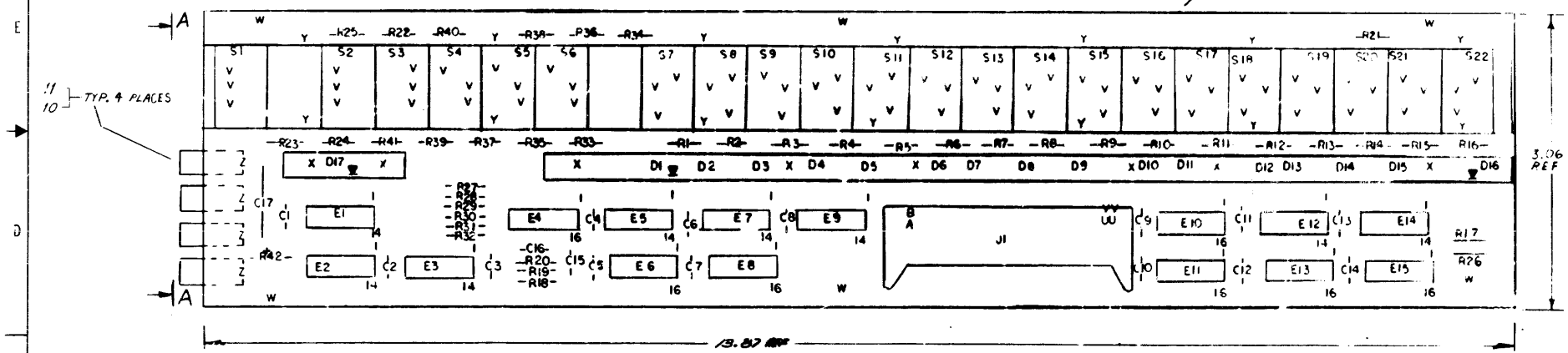
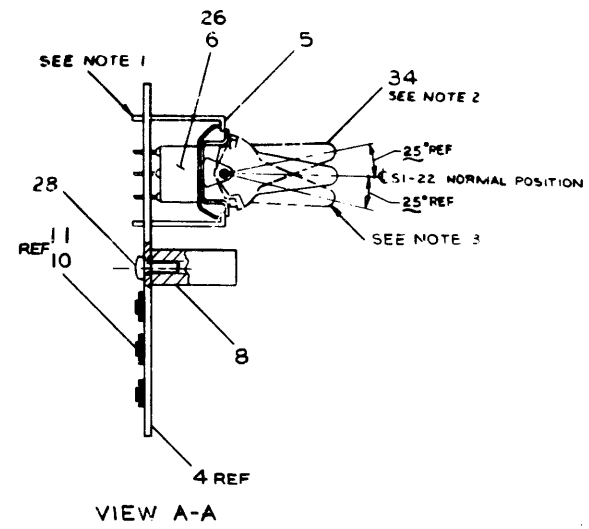
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	ETCH BOARD REV E			

REV	CHANGE NO.	REVISIONS	CHK

DRN: Roger J. Duxette	DATE: 20 JAN 72	 digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
CHKD: [Signature]	DATE: 26 JAN 72		
ENG: [Signature]	DATE: 1 10 72		
PROJ. ENG: [Signature]	DATE: 1 10 72		
PROD: [Signature]	DATE: 2-28-72		
NEXT HIGHER ASSY: B-7A-5409766-0-0		TITLE: ! /05 CONSOLE	
DEC NO	EIA NO		SCALE: 3 OF 3
SEMICONDUCTOR CONVERSION CHART			SHEET 3 OF 3

SIZE CODE: D CS 5409766-0-1 J

NOTES:
 1. ATTACH SWITCH BRACKET ITEM 5
 WITH BOARD (ITEM 1) BY TURNING IN
 THE SCREW (ITEM 4) BRACKET (ITEM 1)
 TWISTING TOOL # 8-MD-7602103
 (4 PLACES)
 2. ASSEMBLE 52, 3, 4, 5 & 6 AS SHOWN
 3. ASSEMBLE 51 & 57 THRU 52 AS SHOWN



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	E1	RES. 27K 1/4W 5%	1305396	19
1	E2	RES. 180 OHM 5%	1301322	18
1	E3	RES. 1K 1/4W 5%	1300365	17
1	E4	RES. 97 1/4W 5%	1300202	16
1	E5	CAP. 0.1UF 10V 20%	1000610	15
1	E6	CAP. 6.8UF 35V 20%	1000067	14
1	E7	CAP. 100UF 10V 5%	1000016	13
1	E8	DIODE LIGHT EMITTING (RED)	1110269	12
1	E9	FRONT 558-9 STAMPSON	9007887	11
1	E10	FRONT TAB	9007112	10
1	E11	LED HOLDER (R.A.)	1210795-2	9
1	E12	SOLDER L.E.D. HOLDER (R.S.)	1210848-2	8
1	E13	CONNECTOR	1205941	7
1	E14	SWITCHES TOGGLE	1210840	6
1	E15	SUPPORT SWITCHES	240740210-2-0	5
1	E16	ETCH CIRCUIT BOARD	240740210-0-0	4
1	E17	MODULE ECO HISTORY	240740210-0-0	3
1	E18	CIRCUIT SCHEMATIC	240740210-0-1	2
1	E19	X-Y COORDINATE HOLE LOCATION	240740210-0-2	1

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	E1	RES. 27K 1/4W 5%	1305396	19
1	E2	RES. 180 OHM 5%	1301322	18
1	E3	RES. 1K 1/4W 5%	1300365	17
1	E4	RES. 97 1/4W 5%	1300202	16
1	E5	CAP. 0.1UF 10V 20%	1000610	15
1	E6	CAP. 6.8UF 35V 20%	1000067	14
1	E7	CAP. 100UF 10V 5%	1000016	13
1	E8	DIODE LIGHT EMITTING (RED)	1110269	12
1	E9	FRONT 558-9 STAMPSON	9007887	11
1	E10	FRONT TAB	9007112	10
1	E11	LED HOLDER (R.A.)	1210795-2	9
1	E12	SOLDER L.E.D. HOLDER (R.S.)	1210848-2	8
1	E13	CONNECTOR	1205941	7
1	E14	SWITCHES TOGGLE	1210840	6
1	E15	SUPPORT SWITCHES	240740210-2-0	5
1	E16	ETCH CIRCUIT BOARD	240740210-0-0	4
1	E17	MODULE ECO HISTORY	240740210-0-0	3
1	E18	CIRCUIT SCHEMATIC	240740210-0-1	2
1	E19	X-Y COORDINATE HOLE LOCATION	240740210-0-2	1

DATE	BY	REV	DESCRIPTION
12/10/74	J. L. ...	1	ISSUED FOR FAB
12/10/74	J. L. ...	2	REVISED TO ADD ...
12/10/74	J. L. ...	3	REVISED TO ADD ...
12/10/74	J. L. ...	4	REVISED TO ADD ...
12/10/74	J. L. ...	5	REVISED TO ADD ...
12/10/74	J. L. ...	6	REVISED TO ADD ...
12/10/74	J. L. ...	7	REVISED TO ADD ...
12/10/74	J. L. ...	8	REVISED TO ADD ...
12/10/74	J. L. ...	9	REVISED TO ADD ...
12/10/74	J. L. ...	10	REVISED TO ADD ...

ETCH BOARD REV E

SEMICONDUCTOR CONVERSION CHART

DEC NO. EIA NO. DEC NO. EIA NO.

SCALE 1/8" = 1"

DATE 12/10/74

BY J. L. ...

REV 1

DESCRIPTION ETCH BOARD ASSY.

ITEM NO. 5409766-0-0

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE
DRAWING DIRECTORY BALL-K
UNIT ASSY BALL-K
UNIT ASSY BALL-K P.L.
DRAWING DIRECTORY H765
UNIT ASSY BC11A
BC11A UNIBUS CABLE, M919
BC11A UNIBUS CABLE, M929

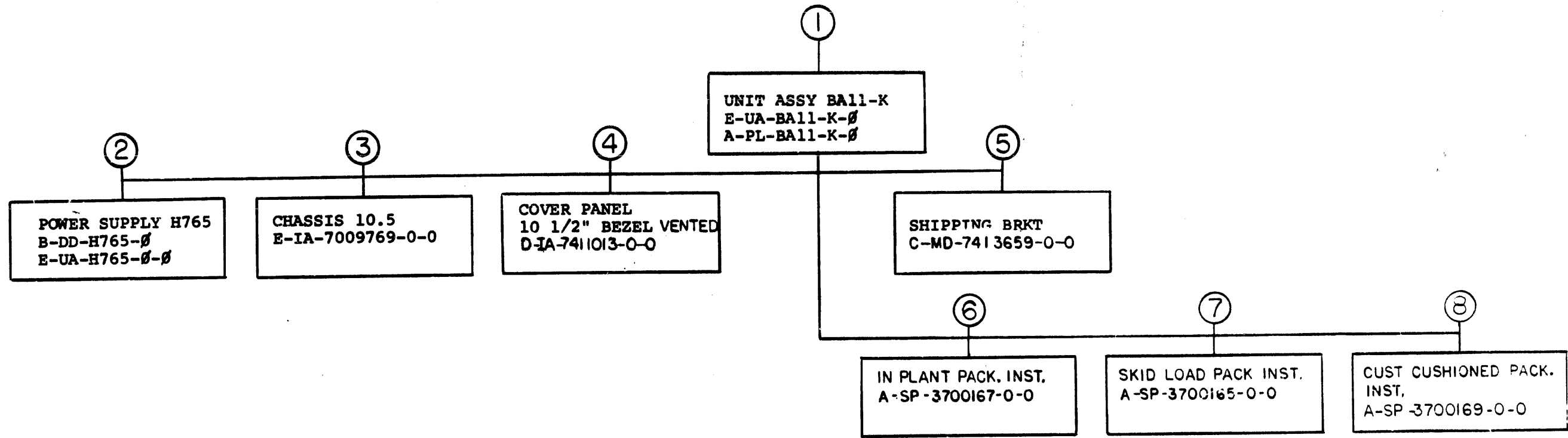
SEQUENCE
B-DD-BALL-K
E-UA-BALL-K-Ø
A-PL-BALL-K-Ø
B-DD-H765-Ø
D-UA-BC11A-1Ø-Ø
B-CS-M919-0-1
B-CS-M929-0-1

SEQUENCE
MFG. PRINT SET
IN PLANT PACK.INST.
SKID LOAD PACK.INST.
CUST. CUSHIONED PACK.INST.

SEQUENCE
A-SP-3700167-0-0
A-SP-3700165-0-0
A-SP-3700169-0-0

UNIT VARIATIONS		PRINT SET	
VAR	TITLE		
BALL-KE	115 VAC 50/60 HZ	X	
BALL-KF	230 VAC 50/60 HZ	X	
BALL-KH	115 VAC 50/60 HZ (MANUF. ONLY)	X	
BALL-KJ	230 VAC 50/60 HZ (MANUF. ONLY)	X	

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>CHG. NO.</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>E.A.</td> <td>BALL-K-4</td> <td>A</td> </tr> <tr> <td>E.A.</td> <td>BALL-K-5</td> <td>B</td> </tr> <tr> <td>WRM</td> <td>BALL-K-7</td> <td>C</td> </tr> <tr> <td>B.M.</td> <td>BALL-K-8</td> <td>D</td> </tr> <tr> <td></td> <td>BALL-K-9</td> <td>E</td> </tr> </tbody> </table>		DATE	CHG. NO.	REV	E.A.	BALL-K-4	A	E.A.	BALL-K-5	B	WRM	BALL-K-7	C	B.M.	BALL-K-8	D		BALL-K-9	E	<p>USED ON OPTION/MODEL</p> <table border="1"> <tbody> <tr> <td>11/05-S</td> <td></td> </tr> <tr> <td>11/35-S</td> <td></td> </tr> </tbody> </table>		11/05-S		11/35-S		<p>DRN. J. FERGUSEN DATE 6/22/74 CHK'D. D. HEALY DATE 7/3/74 PROJ ENG. E. Antm DATE 9/4/74 PROD. R.K. Peterson DATE 10/1/74 FIELD SERV. R.L. Gates DATE 9/13/74</p>		<p>TITLE DRAWING DIRECTORY BALL-K</p>	
DATE	CHG. NO.	REV																											
E.A.	BALL-K-4	A																											
E.A.	BALL-K-5	B																											
WRM	BALL-K-7	C																											
B.M.	BALL-K-8	D																											
	BALL-K-9	E																											
11/05-S																													
11/35-S																													
<p>SHEET 1 OF 4</p>		<table border="1"> <thead> <tr> <th>SIZE</th> <th>CODE</th> <th>NUMBER</th> <th>REV</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>DD</td> <td>BALL-K</td> <td>E</td> </tr> </tbody> </table>		SIZE	CODE	NUMBER	REV	B	DD	BALL-K	E	<table border="1"> <thead> <tr> <th>DIST</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		DIST															
SIZE	CODE	NUMBER	REV																										
B	DD	BALL-K	E																										
DIST																													



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									

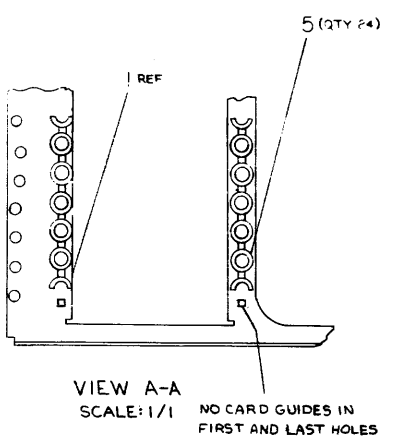
CUSTOMER PRINT SET CODES
 X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
 \$ = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE
 DRAWING DIRECTORY BALL-K
 SHEET 3 OF 4
 SIZE CODE B DD
 NUMBER BALL-K
 REV E

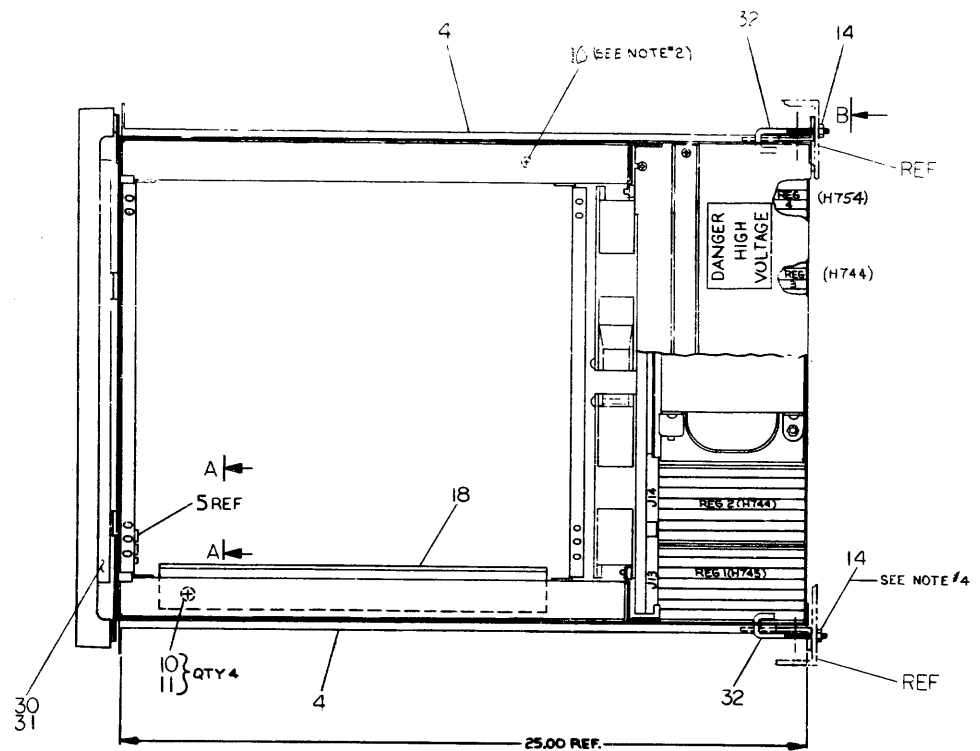
CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET		MECHANICAL								
1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE	1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE		
		1	E-UA-BALL-K-Ø	E	2	UNIT ASSY BALL-K			X	6	A-SP-3700167-0-0	-	3	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		NUMBER		RFV
											B DD		BALL-K		E		

DRB 108

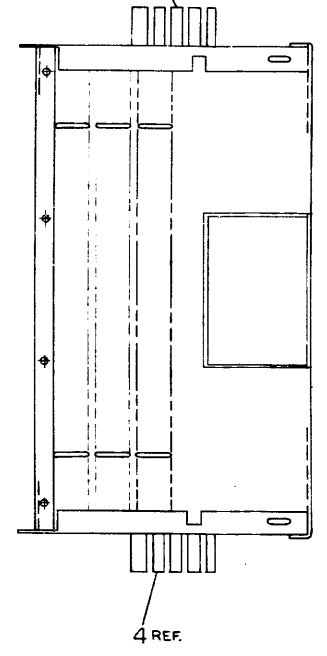
DEC 16-(325)-1062-2B-R972



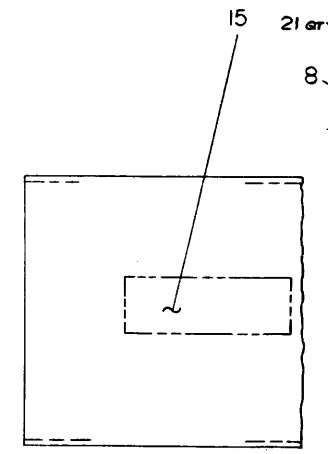
VIEW A-A
SCALE: 1/1
NO CARD GUIDES IN FIRST AND LAST HOLES



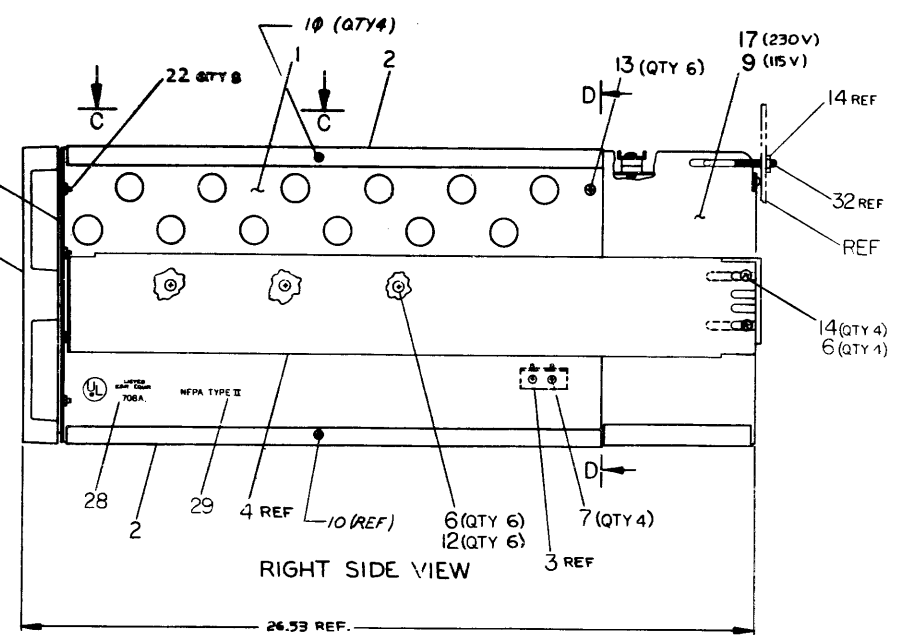
TOP VIEW
(CHASSIS COVER REMOVED)



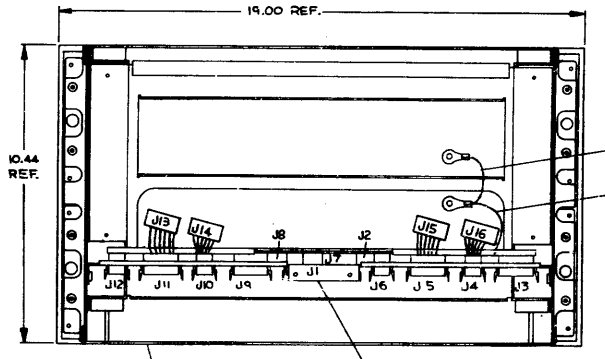
VIEW B-B



VIEW C-C
SCALE: NONE
ONLY TOP COVER ITEM #2 SHOWN



RIGHT SIDE VIEW



VIEW D-D
REAR VIEW
(POWER SUPPLY AND CHASSIS SLIDES REMOVED)

LEGEND	
NUMBER	VARIATION
BALI-KE	115V 50/60HZ
BALI-KF	230V 50/60HZ
BALI-KH	115V 50/60HZ
BALI-KJ	230V 50/60HZ

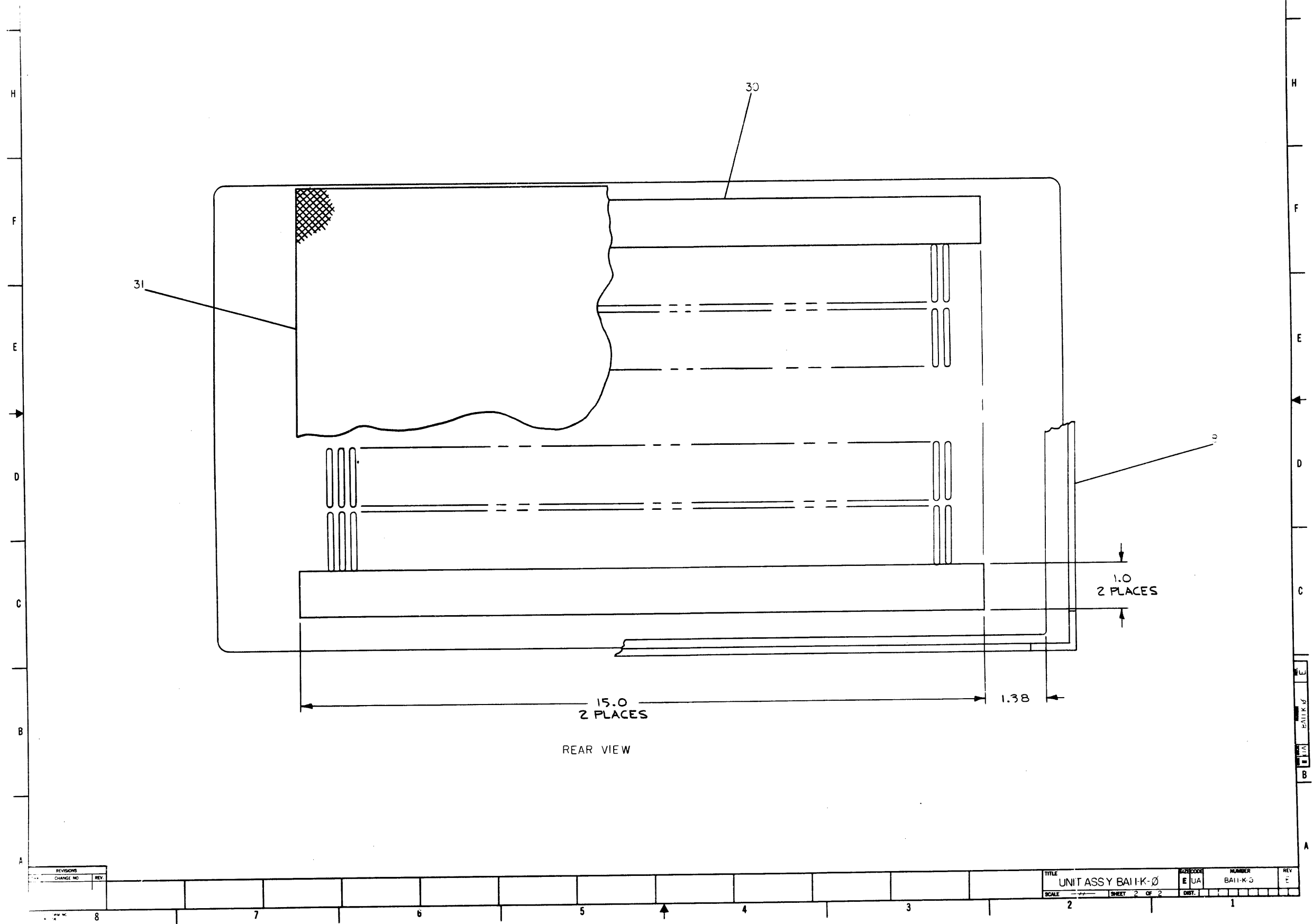
FOR MFG. USE ONLY

- NOTES:
- CAUTION: OFF SHEET PARTS LISTS EXISTS SEE A-PL-BALI-K-0
 - GROUND LUG OF PWR. DISTRIBUTION BD. ATTACHES TO SCREW ON CHASSIS
 - TIGHTEN ALL SYSTEM UNIT MOUNTING SCREWS TO 13 IN.-LBS WITH A TORQUE SCREW DRIVER
 - ATTACH SHIPPING BRACKET'S TO POWER SUPPLY AND BOLT THROUGH HOLE IN CABINET RAILS.

REV.	DATE	DESCRIPTION	BY	CHECKED	APPROVED	QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	11/17/77	UNIT ASS'Y	...	...	...			BALI-K	1
2	11/17/77	...	...	...	...			BALI-K	2
3	11/17/77	...	...	...	...			BALI-K	3
4	11/17/77	...	...	...	...			BALI-K	4
5	11/17/77	...	...	...	...			BALI-K	5
6	11/17/77	...	...	...	...			BALI-K	6
7	11/17/77	...	...	...	...			BALI-K	7
8	11/17/77	...	...	...	...			BALI-K	8

FIRST USED ON (OPTION MODEL)		QTY.	DESCRIPTION	PART NO.	ITEM NO.
BALI-K			UNIT ASS'Y	BALI-K	1
B-00-BALI-K		
EUA/BALI-K-0		

UNIT ASSY BAI-K-Ø



31

30

Ø

1.0
2 PLACES

15.0
2 PLACES

1.38

REAR VIEW

REVISIONS	
CHANGE NO	REV

TITLE	UNIT ASSY BAI-K-Ø	DESIGN CODE	E UA	NUMBER	BAI-K-G	REV	E
SCALE	2	SHEET	2 OF 2	DMT.	1	1	1

8

7

6

5

4

3

2

1

FILE
BAI-K-G
E UA
B

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-KF 1 1 1 1
2	D-IA-7009768-0-0	COVER, CHASSIS	BALL-KH 1 1 1 1
3	D-CS-5410864-0-1	POWER DISTRIBUTION BOARD	BALL-KF 2 2 2 2
4	D-PS-1211825-0-0	SLIDE, 3 POS TILT	REF REF REF REF
5	D-PS-1211630-0-0	CARD GUIDE	lpr lpr - - - -
6	9006071-3	SCREW, PHL TRUSS HD #10-32 X .38	24 24 24 24
7	9006020-2	SCREW, PHL FLAT HD #6-32 X .25	10 10 4 4
8	D-IA-7411013-0-0	COVER, PANEL 10 1/2 BEZEL (SNAP-ON/VENTED)	4 4 4 4
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	1 - 1 -
11	9006020-3	WASHER EXTERNAL TOOTH #10	5 5 5 5
12	9007651	WASHER EXTERNAL TOOTH #10	4 4 4 4
13	9009599	SCREW, PHL FLAT HD (SPECIAL)	6 6 - -
14	9006565	NUT, KEPS, #10-32	6 6 6 6
15	DEC-3-(374)-1825-N1174	STICKER, "CONFIGURATION"	1 1 - -
16	D-IA-7010059-0-0	SHIPPING BRACKET	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 1 1
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
REV E
ECO NO BALL-K-00009
SHEET 1 OF 2
DIST.

DEC FORM DEC 16 (325) 1031-N870
DRA 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 1 1 1 1
24	A-SP-3700165-0-0	SKID LOAD PACK INST.	BALL-KH 1 1 1 1
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	21-336-02	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
REV F
ECO NO BALL-K-00009
SHEET 2 OF 2
DIST.

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

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

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DRAWING DIRECTORY H765
UNIT ASSY H765
AC INPUT BOX ASSY
AC PWR CONTROL BOARD

SEQUENCE

B-DD-H765-0
E-UA-H765-0-0
D-AD-7009811-0-0
D-CS-5410993-0-1

MFG. PRINT SET
PACKAGING INSTRUCTIONS

SEQUENCE

A-SP-3700174-0-0

DRAWING DIRECTORY H744
DRAWING DIRECTORY H745
DRAWING DIRECTORY H754

B-DD-H744-0
B-DD-H745-0
B-DD-H754-0

PWR DISTRIBUTION BOARD
AC POWER CORD
PWR LINE MONITOR/15V REG
TRANSFORMER ASSEMBLY

D-CS-5410864-0-1
D-AD-7010131-0-0
D-CS-5411086-0-1
E-AD-7011486-0-0

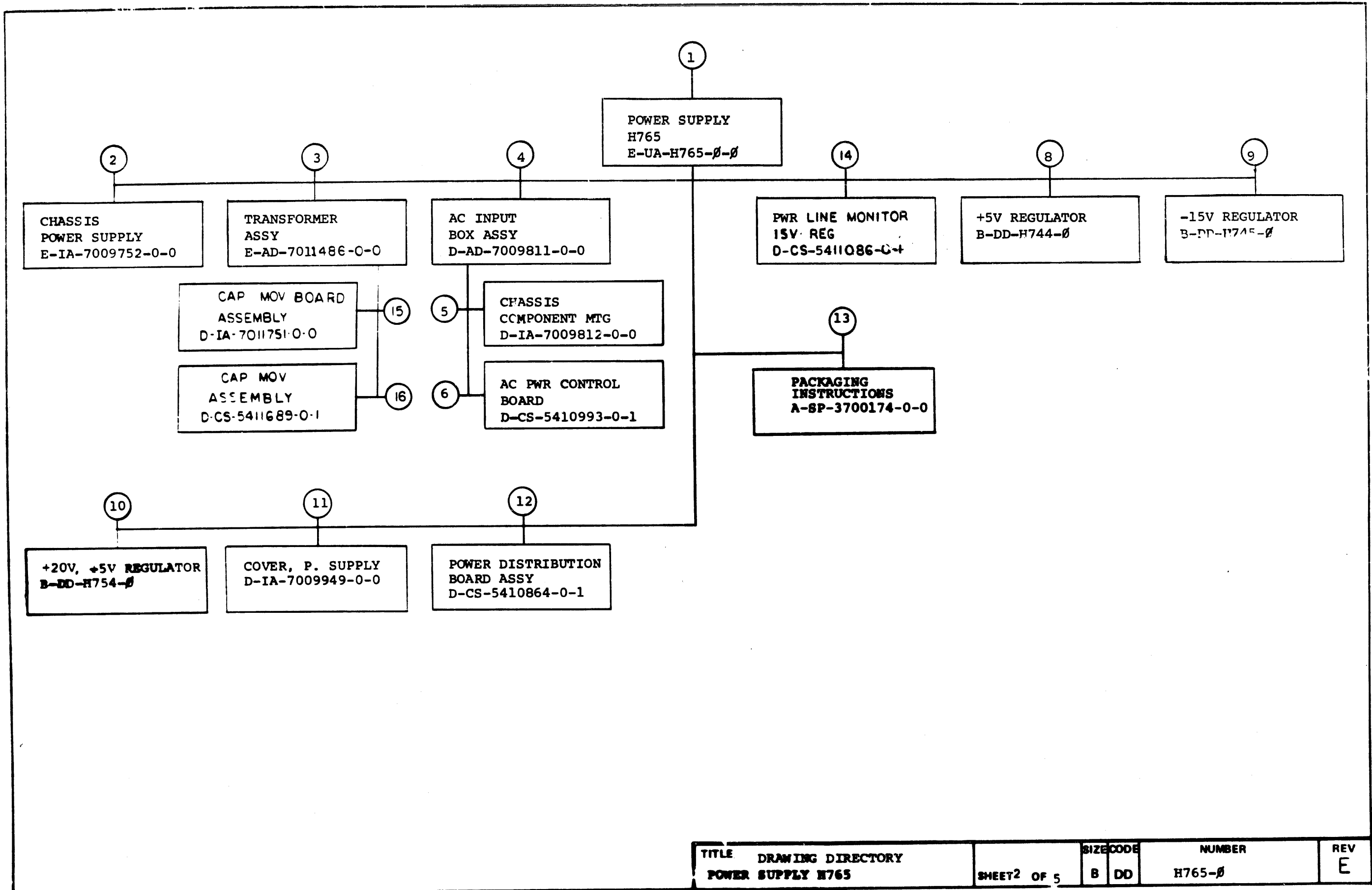
UNIT VARIATIONS		PRINT SET	
VAR	TITLE		
H765-A	120V 50/60 HZ	X	
H765-B	240V 50/60 HZ	X	

DEC 16-1983-1043-14-0372

DATE	CHG. NO.	REV	A	B	C	D	E
			CN	SL	SL	RK	
	H765-3	A					
	H765-4	B					
	H765-6	C					
	H765-7	D					
	H765-8	E					

USED ON OPTION/MODEL	DRAWN	DATE	TITLE
BALL-0	J. FERGUSON	5/25/74	DRAWING DIRECTORY POWER SUPPLY H765
11/35-S	D. HEALY	7/3/74	
	E. Dalton	9/4/74	
	R.L. Gates	12/1/74	
	R.L. Gates	9/13/74	

SIZE	CODE	NUMBER	REV
B	DD	H765-0	E
SHEET 1 OF 5			



TITLE DRAWING DIRECTORY POWER SUPPLY H765	SHEET 2 OF 5	SIZE CODE B DD	NUMBER H765-Ø	REV E
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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	# A A A		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
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ELECTRICAL				MECHANICAL							
CUSTOMER PRINT SET				CUSTOMER PRINT SET							
MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO / FILE DATE	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	OPTION NO / FILE DATE
	1	E-UA-H765-0-0	H	2	POWER SUPPLY H765		6	D-CS-5410993-0-1	1	1	AC PWR CONTROL BD.
								K-CO-5410993-C-4	1	1	X-Y COORDINATE HOLE LOC.
		D-IA-7009950-0-0		1	THROUGH WIRE			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						
							8	B-DD-H744-0		2	DRAWING DIRECTORY H744
	3	E-AD-7011486-0-0		2	TRANSFORMER ASSY						
		C-MD-7414301-0-0		1	COVER						
							9	B-DD-H745-0		2	DRAWING DIRECTORY H745
	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-H754-0		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
								C-MD-7412473-0-0	1	1	STRIP, CLAMP
		D-IA-7009812-0-0	A	1	CHASSIS COMPONENT MTG.						
		D-IA-7411765-0-0		1	PLATE SWITCH						
		D-IA-7411766-0-0	B	1	PLATE COMPONENT MTG.						

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	SHEET	4 OF 5	SIZE CODE	B DO	NUMBER	H765-0	P V	E
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CUSTOMER PRINT SET		MECHANICAL					CUSTOMER PRINT SET								
		MFG SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE			MFG SET	FIND NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1			12		3	POWER DIST. BD. ASSY									
					1	SHIELD									
					1	BRACKET, CONN. MTG.									
						MATE-N-LOK FIXTURES									
					1	ETCHED CIRCUIT BD.									
						X-Y COORDINATE HOLE LOC.									
					1	ASSY DRILLING HOLE LAYOUT									
					1	MODULE ECO HISTORY									
					REF	ETCH CIRCUIT BOARD									
	X		13		2	PACKAGING INSTRUCTIONS									
					2	REGULAR SLOTTED CARTON									
					2	LAMINATED BUILDUP									
			14		1	ASSY DRILLING HOLE LAYOUT									
					1	MODULE ECO HISTORY									
			15		1	ASSEMBLY DRAWING									
			16		1	ASSY DRILLING HOLE LAYOUT									
					1	MODULE ECO HISTORY									

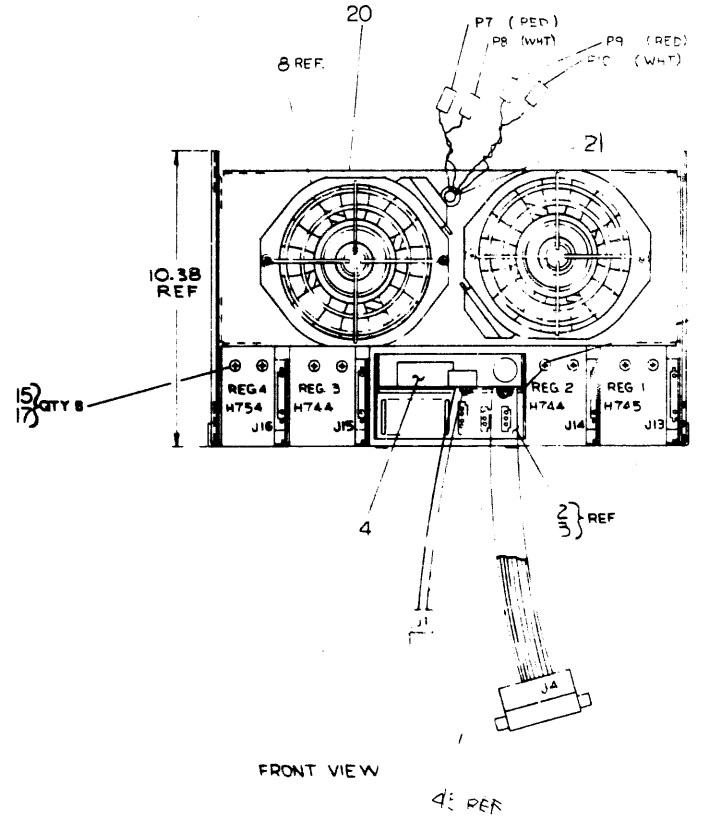
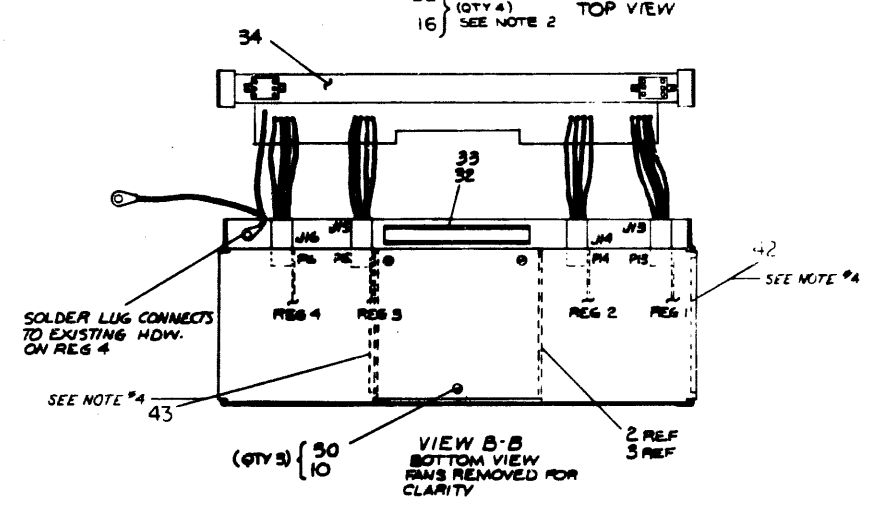
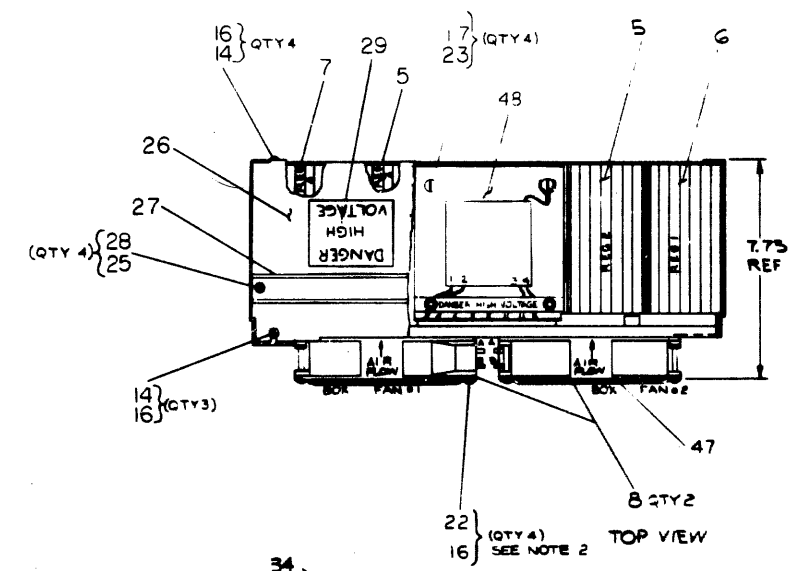
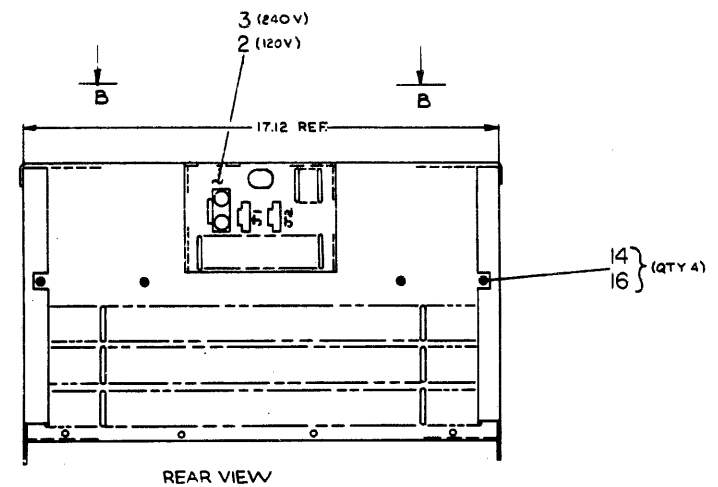
CUSTOMER PRINT SET CODES
 X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
 C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
 S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE DRAWING DIRECTORY
 POWER SUPPLY H765
 SHEET 5 OF 5
 SIZE CODE 3 DD
 NUMBER H765-2
 REV E

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. FRACTIONS SHALL BE TO THE NEAREST 1/16 INCH. DECIMALS SHALL BE TO THE NEAREST 0.001 INCH. DIMENSIONS SHOWN WITH NO TOLERANCE SHALL BE TO THE NEAREST 0.001 INCH. DIMENSIONS SHOWN WITH NO TOLERANCE SHALL BE TO THE NEAREST 0.001 INCH.

NUMBER	LEGEND	VARIATION
H765-A	240V	50/60 HZ
H765-B	120V	50/60 HZ

- NOTES
- SEE TRANSFORMER ASSY E-AD-701021A SHEET 2 FOR ISOMETRIC ORIENTATION OF CLAMP & PLUG WIRES.
 - TIGHTEN FAN SCREWS TO 10 IN-LBS WITH A TORQUE SCREW DRIVER.
 - USE EXTERNAL TOOTH WASHER UNDER MOUNTING SCREW HEAD OF REG. TRANSFORMERS ONLY.
 - GREEN, YEL GROUND WIRE FROM TRANSFORMERS 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	TRANSFORMER ASSEMBLY	E-AD-701021A	
2	FAN 115VAC	1211714	
4	SCR PHD TRUSS	10-32X.25	
4	SCR PHD TRUSS	10-32X.25	
4	SCR PHD TRUSS	10-32X.25	
1	CHASSIS POWER SUPPLY	1A-7047520-0	
1	COVER, POWER SUPPLY	1A-7047520-0	
4	SCR PHD TRUSS	10-32X.25	
4	SCR PHD TRUSS	10-32X.25	
1	AC INPUT BOX ASSY	115V-D-AD-700811-0	
1	AC INPUT BOX ASSY	115V-D-AD-700811-0	
2	+20V REGULATOR (H784)	B-DD-H754-0	
2	+5V REGULATOR (H744)	B-DD-H744-0	
1	FWR BD 1145 (15V REG)	C-1A-41086	
1	TRANSFORMER ASSEMBLY	E-AD-701021A	

QTY	DESCRIPTION	PART NO.	REV.
2	FAN, 115 VAC 50/60HZ	1211714	0
1	+20V REGULATOR (H784)	B-DD-H754-0	7
1	-15V REGULATOR (H748)	B-DD-H748-0	6
2	+5V REGULATOR (H744)	B-DD-H744-0	5
1	FWR BD 1145 (15V REG)	C-1A-41086	4
1	AC INPUT BOX ASSY 230V-D-AD-700811-0	3	3
1	AC INPUT BOX ASSY 115V-D-AD-700811-0	2	2
1	TRANSFORMER ASSEMBLY	E-AD-701021A	1
1	COVER, POWER SUPPLY	1A-7047520-0	1
4	SCR PHD TRUSS 10-32X.25	10-32X.25	1
4	SCR PHD TRUSS 10-32X.25	10-32X.25	1
4	SCR PHD TRUSS 10-32X.25	10-32X.25	1
1	CHASSIS POWER SUPPLY	1A-7047520-0	1
1	COVER, POWER SUPPLY	1A-7047520-0	1
4	SCR PHD TRUSS 10-32X.25	10-32X.25	1
4	SCR PHD TRUSS 10-32X.25	10-32X.25	1
1	AC INPUT BOX ASSY 230V-D-AD-700811-0	3	3
1	AC INPUT BOX ASSY 115V-D-AD-700811-0	2	2
1	TRANSFORMER ASSEMBLY	E-AD-701021A	1

FIRST USED ON OPTION MODEL

BAI-K

DIMENSIONAL TOLERANCE

UNLESS OTHERWISE SPECIFIED

SEE PARTS LIST

POWER SUPPLY, H765

B-DD-H765-0

TITLE

POWER SUPPLY, H765

REV. 0

DATE

BY

CHECKED

APPROVED

H765-B

H765-A

H765-0

H765-1

H765-2

H765-3

H765-4

H765-5

H765-6

H765-7

H765-8

H765-9

H765-10

H765-11

H765-12

H765-13

H765-14

H765-15

H765-16

H765-17

H765-18

H765-19

H765-20

H765-21

H765-22

H765-23

H765-24

H765-25

H765-26

H765-27

H765-28

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H765-30

H765-31

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H765-72

H765-73

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H765-77

H765-78

H765-79

H765-80

H765-81

H765-82

H765-83

H765-84

H765-85

H765-86

H765-87

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H765-92

H765-93

H765-94

H765-95

H765-96

H765-97

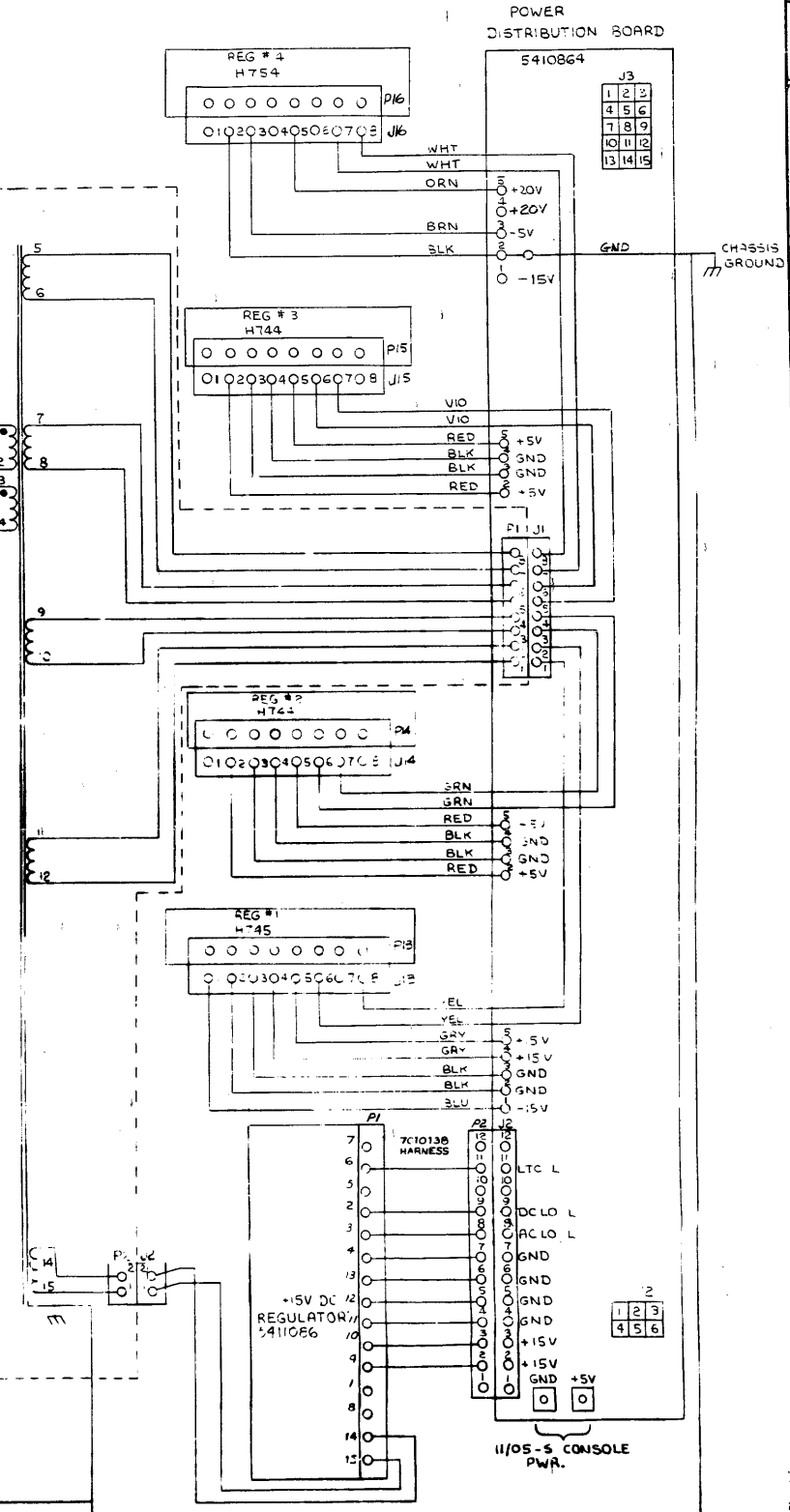
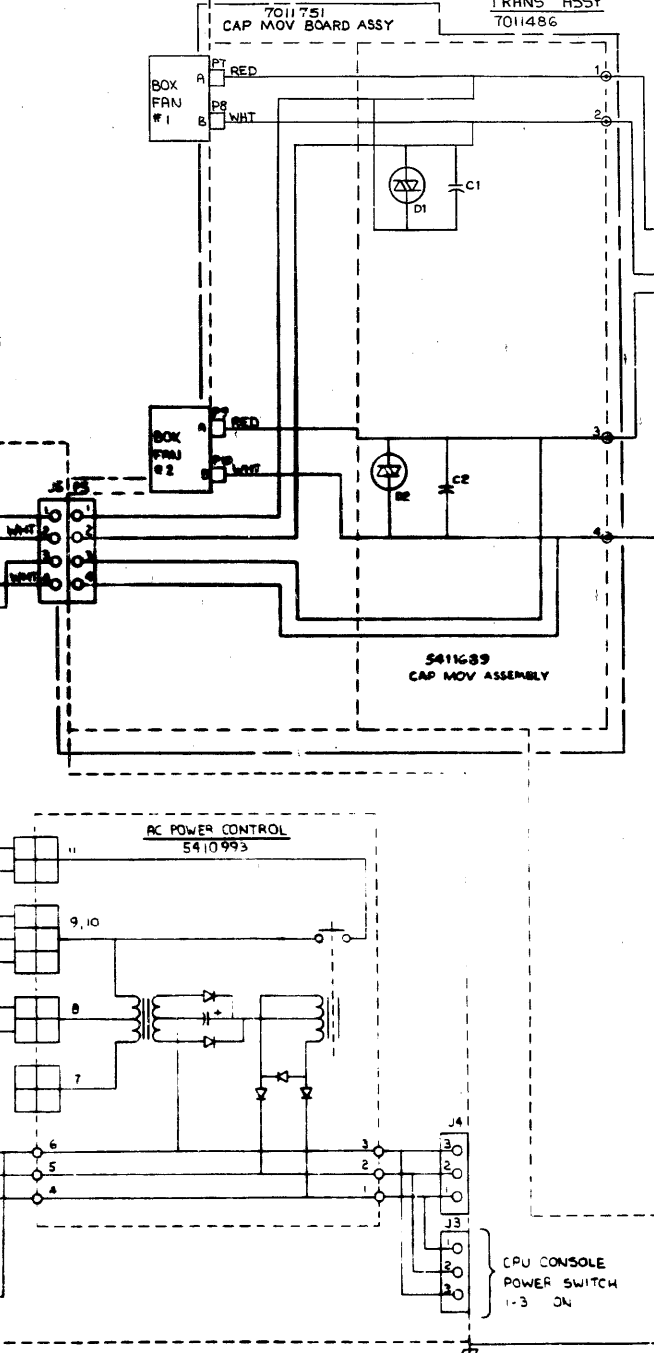
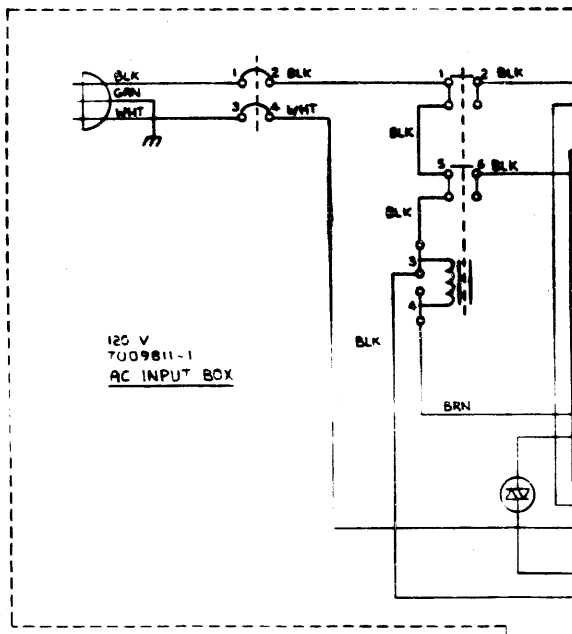
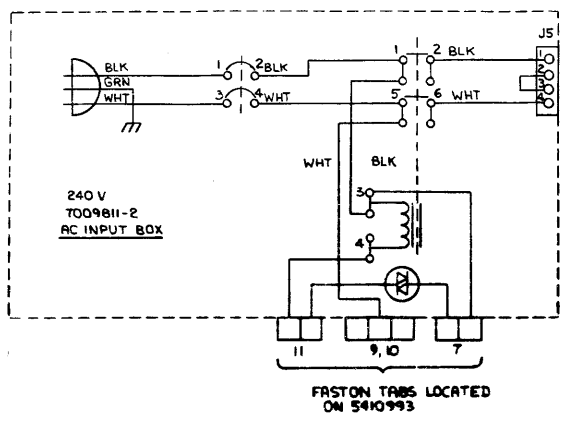
H765-98

H765-99

H765-100

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS ON AC SHEET ARE TO BE TAKEN TO THE CENTER OF HOLES UNLESS OTHERWISE SPECIFIED. THIS DRAWING IS THE PROPERTY OF THE MANUFACTURER OF THIS PRODUCT. IT IS TO BE KEPT IN CONFIDENCE.

CONNECTION TABLE			CONNECTION TABLE		
FROM CONNECTION	TO CONNECTION	SIGNALS	FROM CONNECTION	TO CONNECTION	SIGNALS
P2 FROM TRANS. ASSY	J2 FROM +15V REG.	28 VAC	P4 FROM +15V REG.	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, 28VAC			
J15 FROM PWR. DIST. BD	P15 LOCATED ON REG.#3 (H744)	GND, +5V, 28VAC	P5 FROM TRANS. ASSY	J5 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, -28VAC	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	P10 (WHT)	FAN #2 - B	120 VAC - NEUTRAL
			+1#14 GRN/YEL WIRE	SEE NOTE 6	CHASSIS GROUND



COMMON SIGNAL NAMES FOR 6-PIN AND 15-PIN MATE-N-LOCKS ON POWER DISTRIBUTION BOARD

6-PIN	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

CHK	CHANGE NO.	REV.

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LEGEND	
NUMBER	VARIATION
7009811-1	115V 47-63HZ 12A
7009811-2	230V 47 63HZ 26A

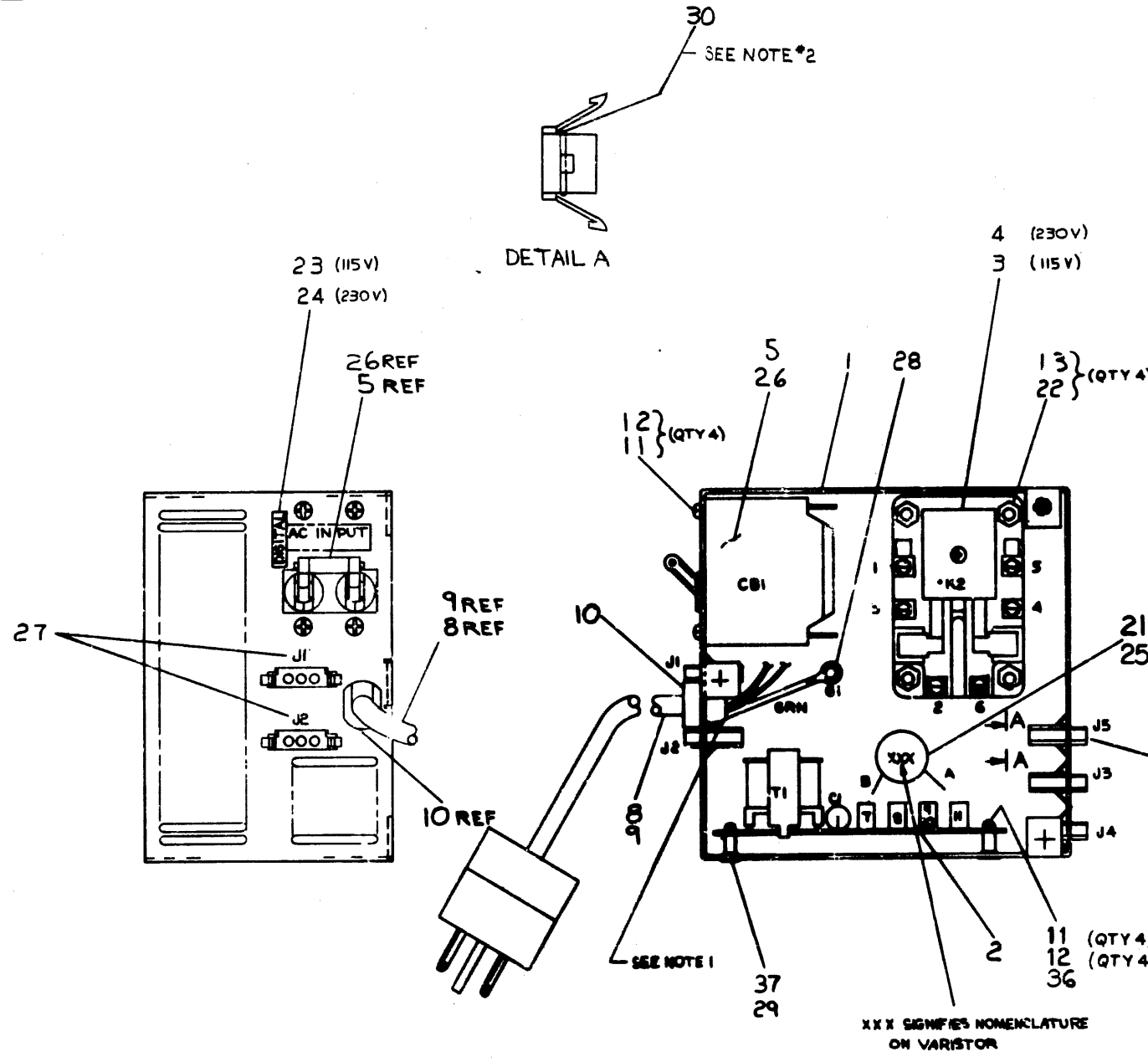
NOTES:
 1. LEAVE .5 IN ± 2 IN. OF OUTER INSULATION OF LINE CORD INSIDE BOX.
 2. USE O-RINGS (ITEM 30) ONLY AS REQUIRED TO KEEP MATE-N-LOCK CONNECTORS SECURED INTO SHEET METAL.

7009811-1
 1-115300
 7009811-2

4	4	SCR PH FL HD 6-32x3/16	9008020-02	37
4	4	WASHER, FLAT	9006653	36
REF	REF	A.C. INPUT BOX ASSEMBLY PROCEDURE	A-SP-7009811-0-9	35
REF	REF	TESTER PARTS LIST	A-PL-7009811-TA-0	34
REF	REF	TESTER TEST PROCEDURE	A-SP-7009811-0-8	33
REF	REF	TESTER U.A.	A-UA-7009811-0-8	32
REF	REF	TESTER C.S.	A-CS-7009811-0-8	31
5	5	O-RING .62	9009640	30
4	4	SPACER 6-32x 3/8"	9006844	29
1	1	NUT, KEPS #8-32	9006563	28
1	1	DECAL	A-DC-7409873-0-0	27
1	-	CIRCUIT BRK 10A	1210191-0	26
1	-	VARISTOR (D7) ASSY	C-IA-7010300-2-0	25
1	-	DECAL 230V 47-63HZ 6A	A-DC-7412380-0-0	24
-	1	DECAL 115V 47-63HZ 12A	A-DC-7412303-0-0	23
4	4	SCR PH FL HD #6-32x50	9006024-2	22
-	1	VARISTOR (D6) ASSY	C-IA-7010300-1-0	21
2	-	POWER JUMPER (BLK)	D-IA-7010301-2-0	20
1	1	POWER JUMPER (BLK)	D-IA-7010301-3-0	19
-	2	POWER JUMPER (BLK)	D-IA-7010301-4-0	18
-	1	POWER JUMPER (WHT)	D-IA-7010301-5-0	17
2	-	POWER JUMPER (WHT)	D-IA-7010301-6-0	16
1	1	POWER JUMPER (BRN)	D-IA-7010301-7-0	15
1	1	POWER JUMPER (BLK)	D-IA-7010301-1-0	14
4	4	NUT KEPS #6-32	9008186	13
8	8	WASHER, INT TOOTH #6	9006633	12
8	8	SCR PH PAN HD #6-32x25	9006020-1	11
1	1	STRAIN RELIEF	9008509	10
1	-	POWER CORD 230V	D-AD-701031-2-0	9
-	1	POWER CORD 115V	D-AD-701031-1-0	8
1	-	PWR CONTROL HARN. 230V	D-IA-7010302-2-0	7
-	1	PWR CONTROL HARN 110V	D-IA-7010302-1-0	6
-	1	CIRCUIT BREAK 20A	1210191-06	5
1	-	RELAY 230V	1211222-02	4
-	1	RELAY 115V	1211222-01	3
1	1	AC PWR CONTR BOARD	D-CS-5410993-0-1	2
1	1	CHASSIS, COMP MTG	D-IA-7009812-0-0	1

DAD 7009811-0-0

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
B11-K					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED		DATE	DATE		
UNLESS OTHERWISE SPECIFIED		6-25-74	6-27-74		
FINISH	FINISH	DATE	DATE		
115V	230V	7-11-74	9-11-74		
115V	230V	DATE	DATE		
115V	230V	DATE	DATE		
NEXT HIGHER ASSY.		NEXT HIGHER ASSY.			
SEE PARTS LIST		E-UA-H 765-0-0		DAD 7009811-0-0	
SCALE		NONE		REV. C	
SHEET		1 OF 2		REV. C	



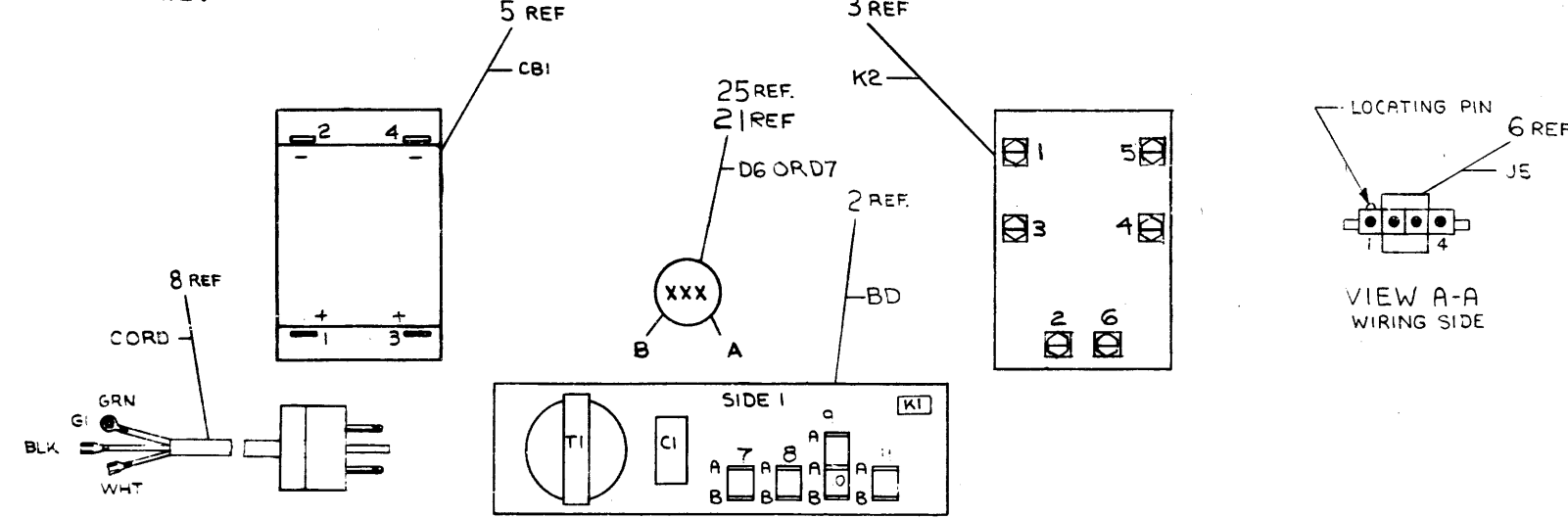
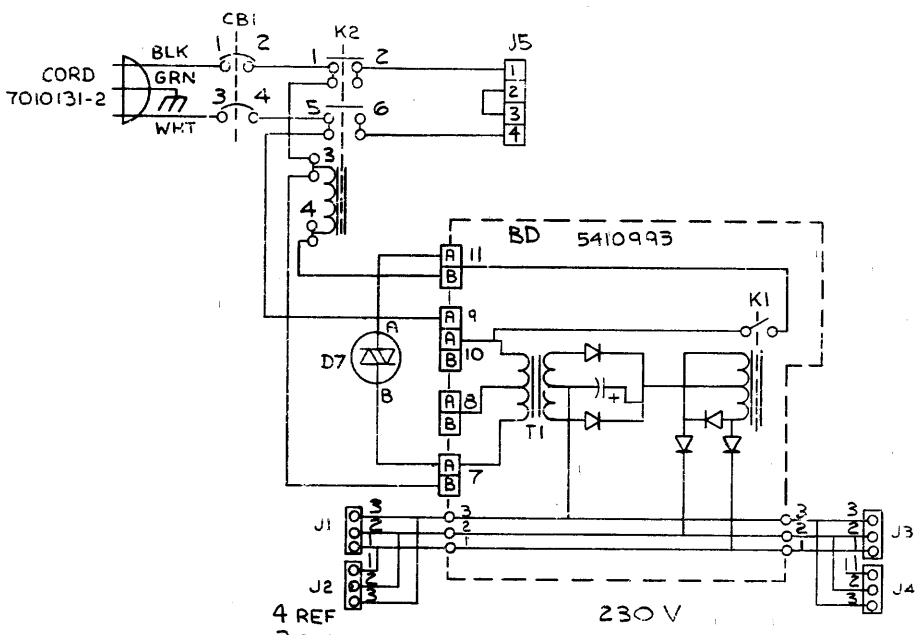
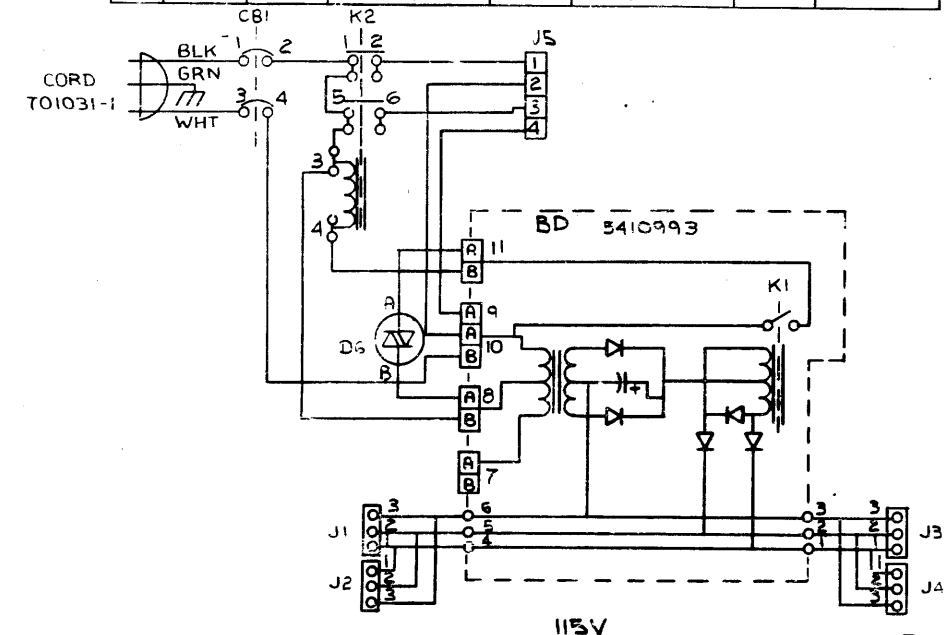
REV.	CHANGED BY	DATE	DESCRIPTION
1	H765-0003 A		
2	E. GARDNER 12-7-74		
3	C. NAVEDORSKY		
4	R. WOLF 1-19-75		
5	R. WOLF 1-19-75		
6	R. WOLF 1-19-75		
7	R. WOLF 1-19-75		
8	R. WOLF 1-19-75		
9	R. WOLF 1-19-75		
10	R. WOLF 1-19-75		
11	R. WOLF 1-19-75		
12	R. WOLF 1-19-75		
13	R. WOLF 1-19-75		
14	R. WOLF 1-19-75		
15	R. WOLF 1-19-75		
16	R. WOLF 1-19-75		
17	R. WOLF 1-19-75		
18	R. WOLF 1-19-75		
19	R. WOLF 1-19-75		
20	R. WOLF 1-19-75		
21	R. WOLF 1-19-75		
22	R. WOLF 1-19-75		
23	R. WOLF 1-19-75		
24	R. WOLF 1-19-75		
25	R. WOLF 1-19-75		
26	R. WOLF 1-19-75		
27	R. WOLF 1-19-75		
28	R. WOLF 1-19-75		
29	R. WOLF 1-19-75		
30	R. WOLF 1-19-75		
31	R. WOLF 1-19-75		
32	R. WOLF 1-19-75		
33	R. WOLF 1-19-75		
34	R. WOLF 1-19-75		
35	R. WOLF 1-19-75		
36	R. WOLF 1-19-75		
37	R. WOLF 1-19-75		

WIRE TABLE (115V)

ITEM NO	DESCRIPTION	CONNECTION FROM	CONNECTION WITH	CONNECTION TO	CONNECTION WITH	REMARKS
8	14 BLK	CORD	-	CBI-1(+)	-	
8	14 WHT	CORD	-	CBI-3(+)	-	
14	14 BLK	CBI-2(-)	-	K2-1	-	
18	14 BLK	K2-5	-	-	-	
19	14 BLK	-	-	K2-3	-	
17	14 WHT	BD-8B	-	-	-	
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 FROM	CONNECTION WITH	CONNECTION TO	CONNECTION WITH	REMARKS
8	14 BLK	CORD	-	CBI-1(+)	-	
8	14 WHT	CORD	-	CBI-3(+)	-	
14	14 BLK	CBI-2	-	K2-1	-	
20	14 BLK	-	-	-	-	
19	14 BLK	K2-3	-	BD-7B	-	
16	14 WHT	-	-	-	-	
16	14 WHT	K2-5	-	CBI-4(-)	-	
15	14 BRN	K2-4	-	BD-9A	-	
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

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

[DRAWING DIRECTORY
CIRCUIT SCHEMATIC
UNIT ASS'Y

SEQUENCE

TB-DD-H744-1
D-CS-H744-1-1
E-UA-H744-0-0

SEQUENCE

MFG. SET
TEST PROCEDURE A-SP-H744-1-3
MFG. SPE A-SP-H744-1-2
PACKAGING INSTRUCTIONS A-PI-3700074-0-0

UNIT VARIATIONS

PRINT SET TYPE

VARIATION	TITLE	PRINT SET TYPE
H744	+5V REGULATOR	X

REVISIONS	DATE	CHG. NO.	REV
J.W. LAWRENCE	S. 10/27/72	00005	A
D. MARTEL	11/14/72	00007	B
R. WOLF	4-1-74	00008	C
D. MARTEL	11/14/72	00009	D
D. MARTEL		00010	E
D. MARTEL		00011	F
A. BARON		00012	H
		00013	I
		00014	K

USED ON OPTION/MODEL	DRN.	DATE	TITLE	SIZE	CODE	NUMBER	REV
11/45	B. FONTAINE	2-4-72	+5V REGULATOR	B	DD	H744-1	K
	CHK'D.	DATE					
	D. FONTAINE	2-4-72					
	PROJ ENG.	DATE					
	DATE	2-25-72					
	FIELD SERV.	DATE					
	SHEET 1 OF 2		DIST				

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-UA-H744-0-0	1	1	UNIT ASSY	H744
																	D-PS-1210737-0-0		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-MD-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: +6V REGULATOR SHEET 2 OF 2 SIZE CODE: B DD NUMBER: H744-0 REV: K

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

DRAWING DIRECTORY
CIRCUIT SCHEMATIC
UNIT ASS'Y

SEQUENCE

B-DD-H745-Ø
D-CS-H745-Ø-1
E-UA-H745-Ø-Ø

SEQUENCE

A-SP-11/45·TA·2
A-SP-H745-Ø 8
A-PI-3700074-0-0

MFG. SET

TEST PROCEDURE
MFG. SPEC.
PACKAGING INSTRUCTION

UNIT VARIATIONS		PRINT SET		
VAR	TITLE	H745-1		
H745	-15V REGULATOR	X		

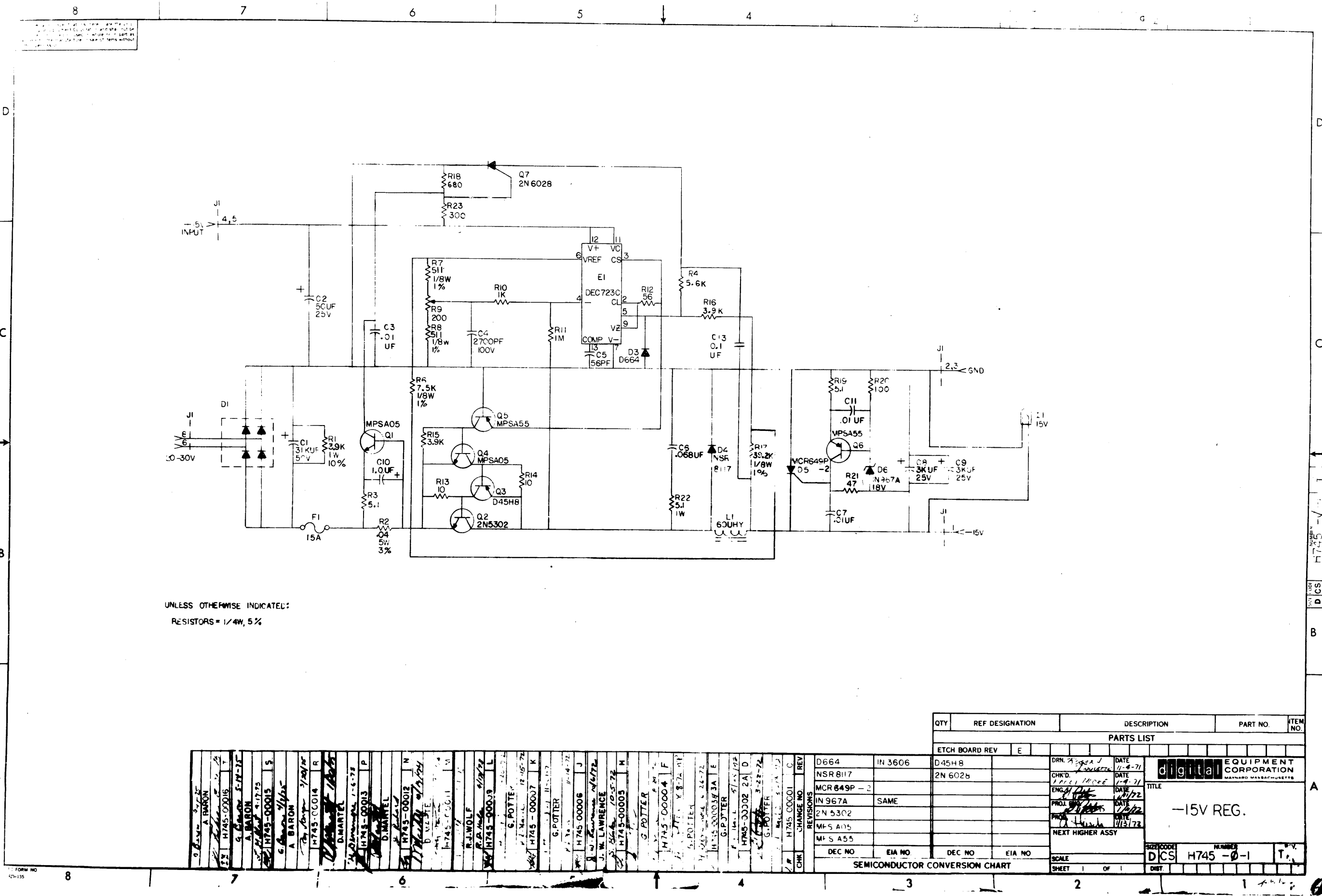
DEC 16-1988-16A8-1A-8022

REV	CHG. NO.	DATE
K	H745-16	

USED ON OPTION/MODEL		DRAWN	DATE	TITLE			
11/45		D. FONTAINE	2-7-72				
		CHK'D.	DATE				
		J GAUDETTE	2-17-72				
		PROJ ENG.	DATE				
		G. POTTER	2-25-72				
		PROD.	DATE	SIZE	CODE	NUMBER	REV
		A. HUSCH	2-25-72	B	DD			H745 A	K
		FIELD SERV.	DATE	DIST			
		A. ZINS	2-25-72				
SHEET		OF 2					

CUSTOMER PRINT SET				ELECTRICAL				CUSTOMER PRINT SET				MECHANICAL							
H745-1				FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.	H745-1				FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X				1	D-CS-H745-0-1	T	1	CIRCUIT SCHEMATIC	H745	X				1	E-VA-H745-0-0	T	1	UNIT ARRAY	H745
		X			A-SP-11/45-TA-2			TEST PROCEDURE	H745						D-PS-1210737-0-0		1	HEAT SINK	H745
		X			A-SP-H745-0-8			MFG SPEC	H745						D-IA-5309756-0-0		1	REGULATOR BRKT	H745
															C-IA-5309761-0-0		1	2 - 5 CAP BRKT	H745
															C-MD-5309759-0-0		1	CAPACITOR STRAP	H745
														2	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

TITLE	SHEET 2 OF 2	SIZE	NUMBER	REV
-15V REGULATOR	B DD	H745-0		*



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

Q1	MPSA05	A. BARON	11-17-71
Q2	2N5302	A. BARON	11-17-71
Q3	D45H8	A. BARON	11-17-71
Q4	MPSA05	A. BARON	11-17-71
Q5	MPSA55	A. BARON	11-17-71
Q7	2N6028	A. BARON	11-17-71
R1	3.9K	A. BARON	11-17-71
R2	5.1K	A. BARON	11-17-71
R3	5.1K	A. BARON	11-17-71
R4	5.6K	A. BARON	11-17-71
R6	7.5K	A. BARON	11-17-71
R7	511	A. BARON	11-17-71
R8	200	A. BARON	11-17-71
R9	511	A. BARON	11-17-71
R10	1K	A. BARON	11-17-71
R11	1M	A. BARON	11-17-71
R12	56	A. BARON	11-17-71
R13	10	A. BARON	11-17-71
R14	10	A. BARON	11-17-71
R15	3.9K	A. BARON	11-17-71
R16	3.9K	A. BARON	11-17-71
R17	33.2K	A. BARON	11-17-71
R18	680	A. BARON	11-17-71
R19	5.1	A. BARON	11-17-71
R20	100	A. BARON	11-17-71
R21	47	A. BARON	11-17-71
R22	5.1	A. BARON	11-17-71
R23	300	A. BARON	11-17-71
C1	31KUF	A. BARON	11-17-71
C2	50UF	A. BARON	11-17-71
C3	.01UF	A. BARON	11-17-71
C4	2700PF	A. BARON	11-17-71
C5	56PF	A. BARON	11-17-71
C6	.01UF	A. BARON	11-17-71
C7	.01UF	A. BARON	11-17-71
C8	3KUF	A. BARON	11-17-71
C9	3KUF	A. BARON	11-17-71
C10	1.0UF	A. BARON	11-17-71
C11	.01UF	A. BARON	11-17-71
D3	D664	A. BARON	11-17-71
D4	NSR 8117	A. BARON	11-17-71
D5	MCR649P	A. BARON	11-17-71
D6	1N967A	A. BARON	11-17-71
F1	15A	A. BARON	11-17-71
L1	60UH	A. BARON	11-17-71

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
	D664	IN 3606	D45H8	
	NSR 8117		2N 6028	
	MCR 649P - 2			
	IN 967A	SAME		
	2N 5302			
	MPS A05			
	MPS A55			
	DEC NO	EIA NO	DEC NO	EIA NO

DRN: A. BARON DATE: 11-17-71

CHK'D: DATE: 11-17-71

ENGR: DATE: 11-17-71

PROJ: DATE: 11-17-71

DATE: 11-17-71

NEXT HIGHER ASSY:

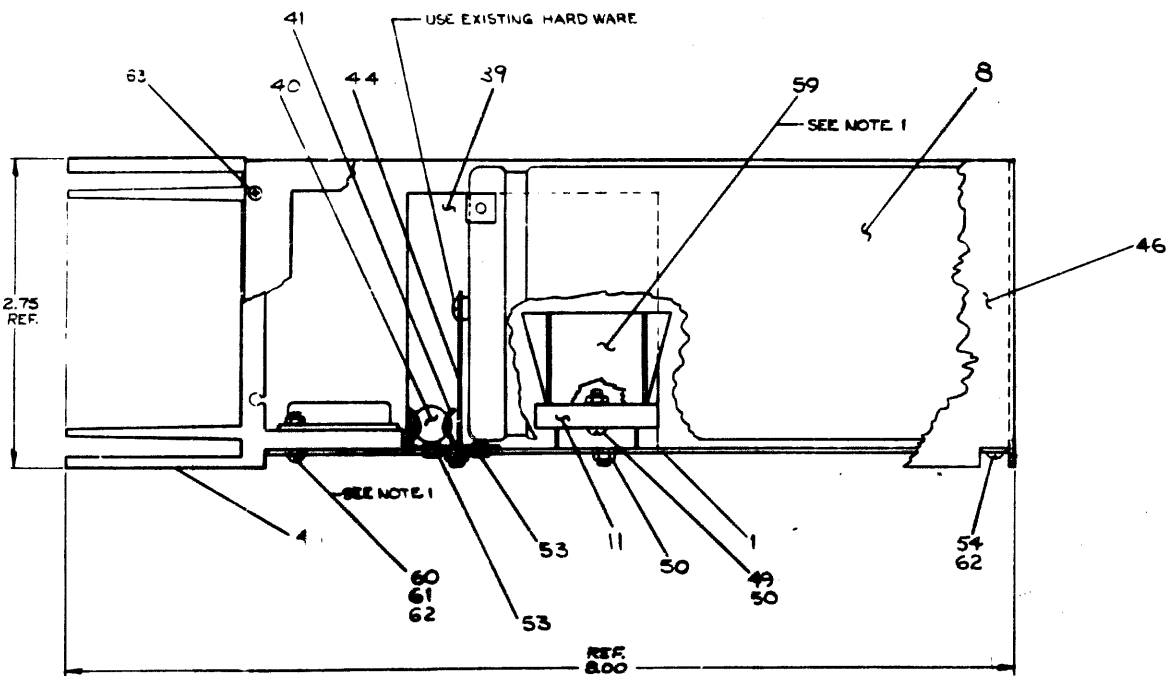
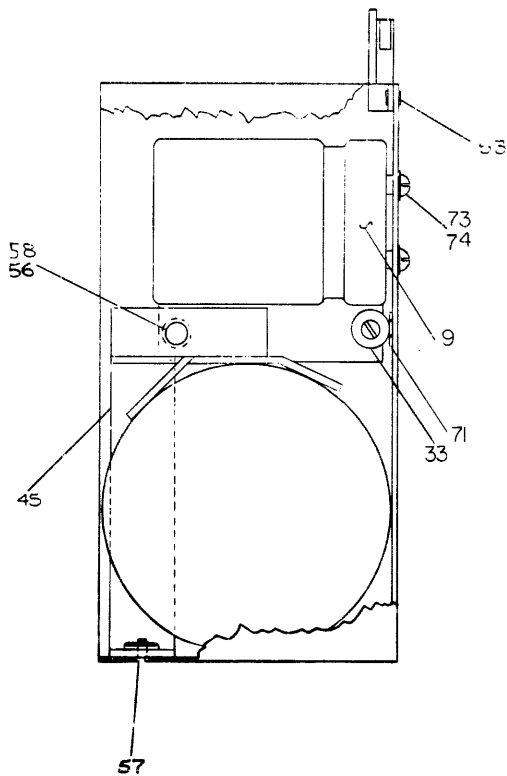
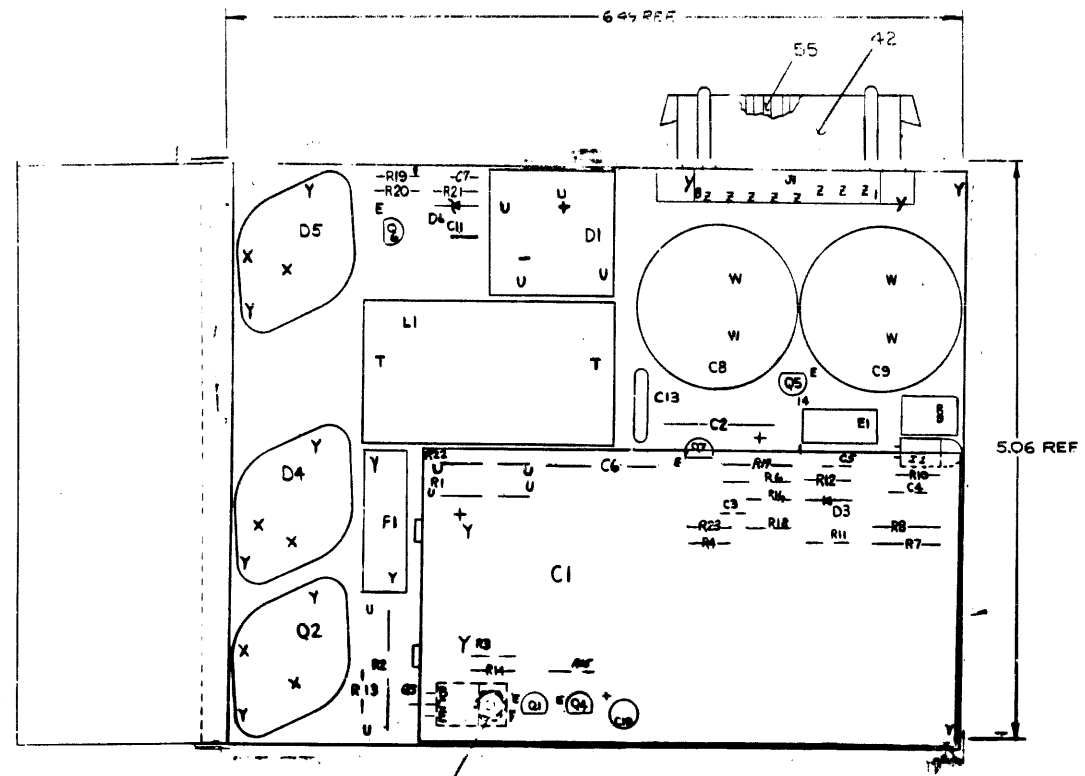
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: -15V REG.

SIZE: CODE: DCS NUMBER: H745-0-1 P.V. T.

SCALE: SHEET 1 OF 1

SEMICONDUCTOR CONVERSION CHART



NOTE:
 1. APPLY ITEM #51 (THERMAL COMPOUND) BETWEEN TRANSFORMER AND INSULATOR, WASHER (ITEM #52 ALSO BETWEEN WASHER & HEAT SINK FOR Q2 Q4 Q5) ALSO APPLY ITEM #51 (COMPOUND) BETWEEN ITEM #1173 TO PRINT BOARD ITEM #59 (HEAT SINK).
 2. ITEM #52 MAY BE SUBSTITUTED FOR C13 (1000030).

QTY	DESCRIPTION	PART NO.	REF. DESIG.
1	ASSY, DRILLING HOLE LAYOUT	D-AM-1745-0-5	70
1	PACKING INSTRUCTIONS	API-370007M-0-0	80
1	R18	RES 20K 1/8W 5%	1301424
1	R23	RES 20K 1/8W 5%	1301424
1	(SEE NOTE 2)	VAR ADJUST 100V 20%	1000050
1	SCR PWR M4X5/6L0	5009010-1	80
1	LAMP 15V	4209169	84
4	SCR PWR M4X5/6L0, SELF TAPPING	9008942	63
4	LAMP 14	9006532	82
7	MUT KEPS 14-40	9008957	81
6	SCR PWR P4H M4-40 X 1 LG	9008020-1	60
1	HEAT SINK BRIDGE RECT	1210807	58
1	SCR PWR P4H M4-32 X 1 LG	9008020-1	58
1	SCR PWR FLT M4-32 X 1 LG	9008020-1	57
1	WASHER LOCK #6	90066433	56
8	CONTACT FEMALE	1208458	55
2	SCR PWR P4H M4-40 X 1 LG	9006501-1	54
8	EYELETS OS-4-	9009000	53
3	INSULATOR WASHER	9008721	52
4/R	THERMAL COMPOUND	9008038	51
1	MUT KEPS 8 32	9008185	48
1	SCR PWR P4H M4-32 X 1 LG	9008041-1	45
4	SCREW PWR-FET M4X5/6	9006600-8	44
1	INSULATOR BRKT	D-11-330175-0-2	46
1	2.5 HOLDER CAPACITOR	D-11-7412388-0-0	46
2	STRAP CAPACITOR	C-48-5308758-0-0	44
1	HEAT SINK	D-PS-1218737-0-0	43
1	FORM WASH	1208458	42
2	FUSE CLIP	9007982	41
1	FUSE AGC 15	9007241	40
1	REACTOR BR UNIT	9118959	38
1	INTERMEDIATE CIRCUIT UNIT 220V	1310415	36
1	TRANSISTOR 2N2904	1518708	37
2	TRANSISTOR 2N2904	1518708	38
2	TRANSISTOR 2N2904	1518708	39
1	TRANSISTOR 2N2904	1518708	40
1	RES 20K 1/8W 5%	1301424	42
1	RES 1K0 1/8W 5%	1308223	32
1	RES 1 1/2W 5%	1308595	31
1	RES 5.6K 1/2W 5%	1301874	29
2	RES 3 1/2W 5%	1304440	28
2	RES 5 1/2W 5%	1308422	28
1	RES 50 1/2W 5%	1308842	27
1	RES 47 1/2W 5%	1308842	28
1	RES 30.2K 1/8W 1%	1308245	26
1	RES 1K 1/8W 5%	1308842	24
2	RES 10 1/2W 5%	1308842	24
1	RES 7.5K 1/8W 5%	1309122	28
2	RES 5K 1/8W 5%	1308842	21
1	RES 5.1 1/2W 5%	1308842	20
1	RES 100K 1/8W 5%	1308842	20
1	RES 2.2K 1/8W 5%	1308245	17
1	RES 3 1/2W 5%	1304440	17
1	RES 4.7K 1/8W 5%	1308245	17
1	RES 3 1/2W 5%	1304440	17
1	DIODE BRIDGE	1118714	11
1	DIODE BRIDGE	1118714	11
2	CAP 3.0K OF 25V	1018708	8
1	CAP 31K OF 50V	1018708	1
1	CAP 1.0 OF 25V	1018708	1
1	CAP 50 OF 25V -10+75%	1018708	6
1	CAP 75K OF 100V 10%	1018708	5
1	CAP 2700PF 100V 5%	1018708	4
1	CAP 100K OF 25V	1018708	3
1	DIODE BRIDGE	1118714	11
1	DIODE BRIDGE	1118714	11

7	10,12

EQUIPMENT CORPORATION
 -15 REGULATOR
 REF. NO. H745-0-0
 EIA NO. DEC NO. EIA NO.
 SEMICONDUCTOR CONVERSION CHART
 DATE OF...
 BY...

DRAWING DIRECTORY

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CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

DRAWING DIRECTORY
+20 VOLT REGULATOR

SEQUENCE 77
B-DD-H754-Ø
E-CS-H754-0-1

SEQUENCE 77

UNIT VARIATIONS		PRINT SET			
VAR	TITLE	1	2	3	4
H754-0	+20 VOLT REGULATOR	X			

DEC 16 (328) 106Z 1A-R372

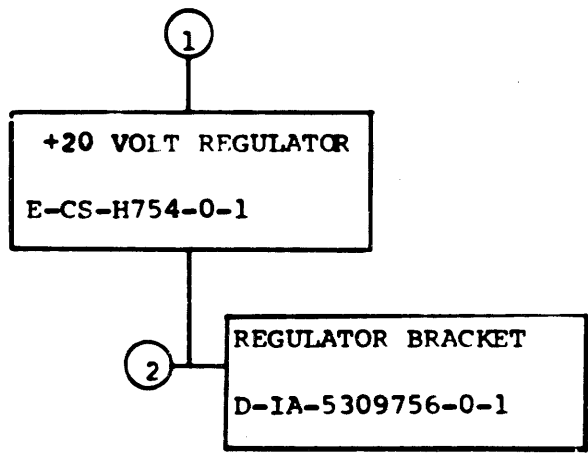
REVISIONS		
DATE	CHG. NO.	REV
10-75	H754-9	A
11-3	H754-10	B

USED 0/1 OPTION/MODEL	DRN.	DATE	TITLE			
	J. Fleming	2/21/74	+20 VOLT REGULATOR			
	CHK'D.	DATE				
	J. Fleming	2/21/74				
	PROJ ENG.	DATE				
	<i>E. A. Wilson</i>	7-13-74				
	PROD.	DATE	SIZE	CODE	NUMBER	REV
	<i>Pack House</i>	2-14-74	B	DD	H754-Ø	B
	FIELD SERV.	DATE				
	<i>Walt Dubee</i>	7/25/74				
SHEET 1 OF 3			DIST			

CUSTOMER PRINT SET		ELECTRICAL					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
X		1	B-DD-H754-Ø	#	3	DRAWING DIRECTORY		X		1	E-CS-H754-0-1	#	2	+20 VOLT REGULATOR	
X			E-CS-H754-Ø-1	#	2	+20 VOLT REGULATOR					D-PS-1210737-0-0		1	HEAT SINK REGULATOR	
			K-CO-H754-Ø-4		-	X-Y COORDINATE HOLE LOCATION					C-TA-5309758-0-0		1	CAPACITOR BRACKET	
			D-AH-H754-Ø-5		1	ASSY/DRILLING HOLE LAYOUT									
			B-MH-H754-Ø-6		1	MODULE ECO HISTORY									
			5010531		-	ETCHED CIRCUIT BOARD									
			A-SP-H754-Ø-8		3	MANUFACTURING SPEC									
										2	D-IA-5409756-0-0		1	BRACKET REGULATOR	
											A-SS-5309756-0-1		1	SILK SCREEN	
											A-SS-5309756-0-2		1	SILK SCREEN	
											A-SS-5309756-0-3		1	SILK SCREEN	

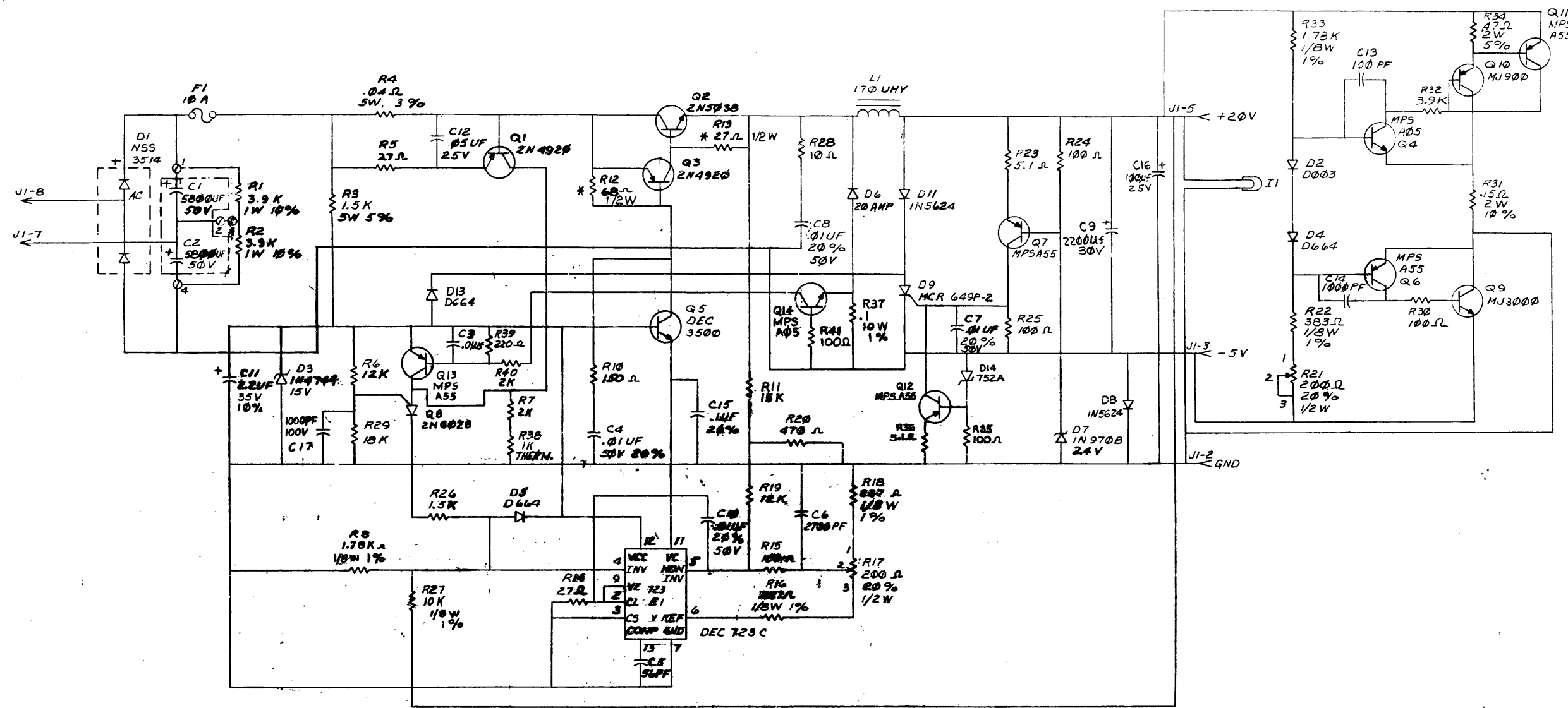
CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE: +20 VOLT REGULATOR
SHEET 2 OF 3
SIZE CODE: B DD
NUMBER: H754-Ø
REV: B



TITLE	INSET	OF	SIZE	CODE	NUMBER	REV
+20 VOLT REGULATOR	3	3	B	DD	H754-0	

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED



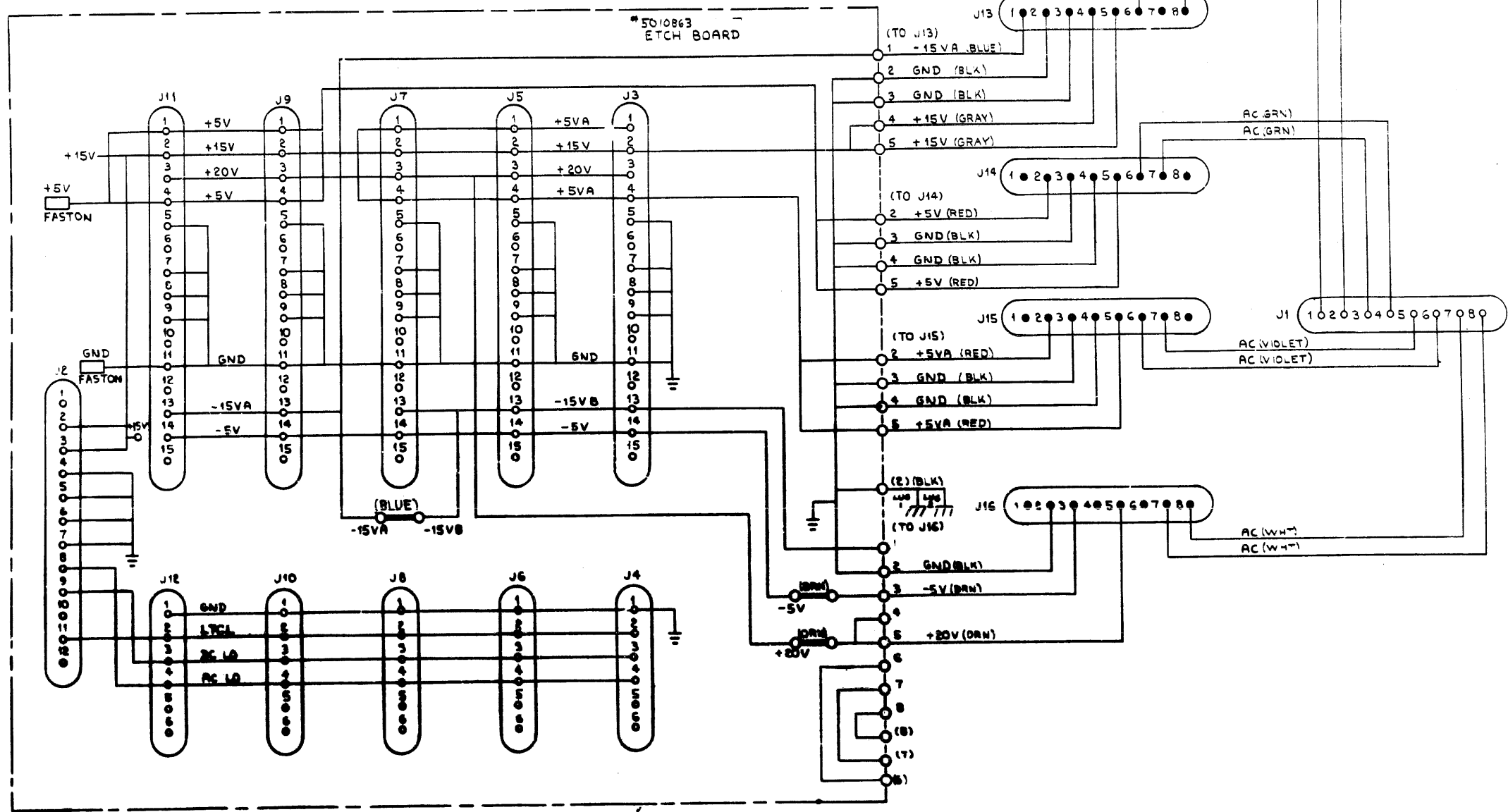
* FUSIBLE RESISTOR

BRUNING 40 522 15840	REV
CHK	CHANGE NO
RELATIONS	

FIRST USED ON OPTION/MODEL	QTY	DESCRIPTION	PART NO.	TITLE
H754				
UNLESS OTHERWISE SPECIFIED				
DIMENSION IN INCHES		DATE	EQUIPMENT CORPORATION	
TOLERANCES		DATE	MILWAUKEE, WISCONSIN	
DECIMALS	ANGLES	DATE	TITLE	
.XX - .42	16° 30'	DATE	+20 VOLT REGULATOR	
.X - .1		DATE	DCS 100-0-1	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY				
MATERIALS		NEXT HIGHER ASSY.		
FINISH		SCALE		
		SHEET 2 OF 2		

CSH754-0-1

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	NUMBER	REV.
PWR DIST BOARD	DCS 5410864-0-1	F
SCALE NONE	SHEET 2 OF 3	DIST.

DCS 5410864-0-1 F

WIRE TABLE								
ITEM NO	DESCRIPTION	FROM	TO	LENGTH	SIGN.	NAME		
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH		
24	14	RED	J1-2	8	J13-9	7	12.5"	AC/H745
24		RED	J1-2	8	J13-6	7	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		10"	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
27		BLU	PDB J13-1	SOLDER	J13-1		5"	-15V
28		BLU	PDB J13-2		J13-2			GND
29		BLK	PDB J13-3		J13-3			GND
20		GRY	PDB J13-4		J13-4			+15V
21		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
22		RED	PDB J15-2		J15-2			+5V
22		BLK	PDB J15-3		J15-3			GND
22		BLK	PDB J15-4		J15-4			GND
22		RED	PDB J15-5		J15-5			+5V
22		BLK	PDB J16-2		J16-2			GND
19		BRN	PDB J16-3		J16-3			-5V
18		CRN	PDB J16-5		J16-5	7	5"	+20V
23		BLU	PDP-15A		PDB-15B	SOLDER	1.75"	-15V
18		ORN	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	PWR DIST BOARD	SIZE CODE	DCS	NUMBER	5410864-0-1	REV.	F
SCALE	NONE	SHEET	3	OF	3	DIST.	

DCS 5410864-0-1 F

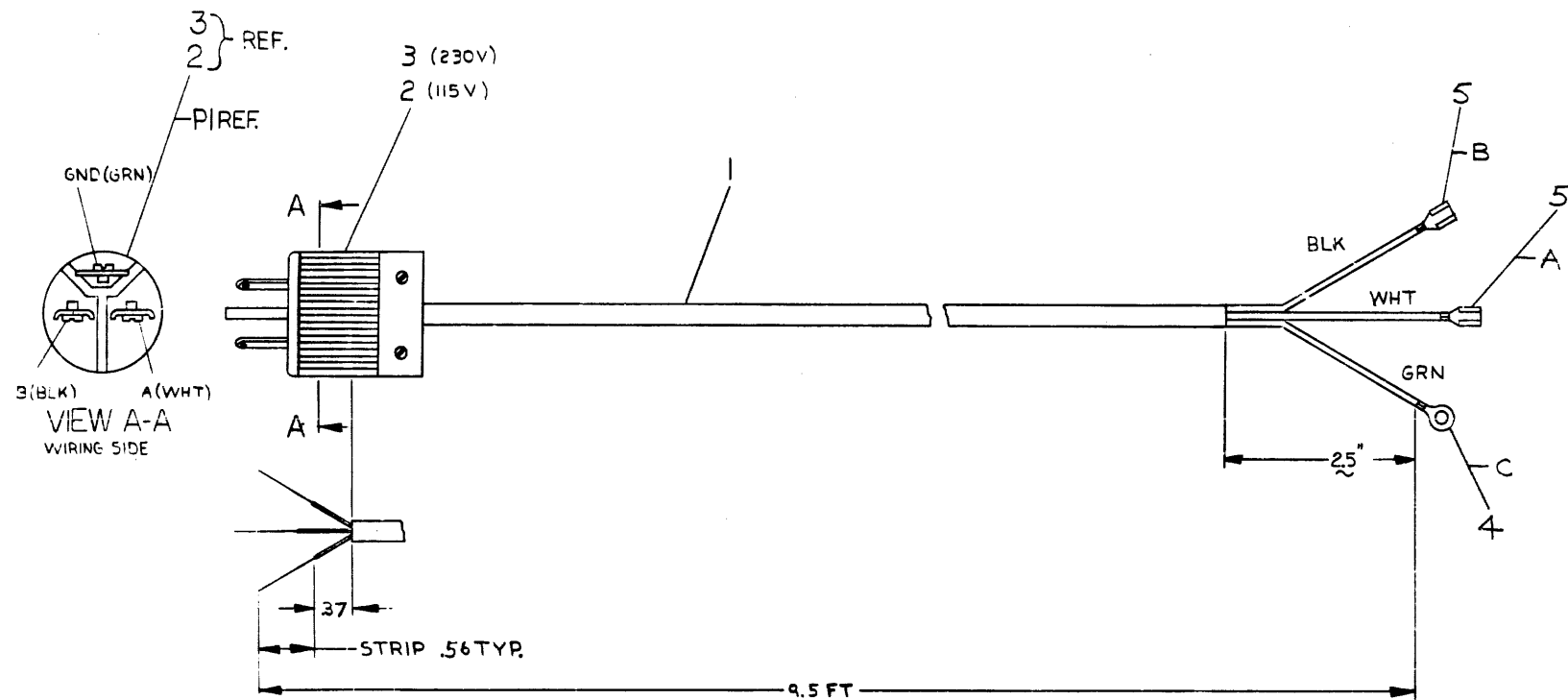
B

A

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WIRE TABLE							
ITEM NO.	DESCRIPTION	FROM		TO		REMARKS	
		AWG	COLOR	CONN	WITH		CONN
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	115V
7010131-2	230V



QTY.	DESCRIPTION	PART NO.	ITEM NO.
2	CONN SOLD BLU	900799-0	5
1	CONN SOLD BLU	9007928	4
1	PLUG MALE 230V	9004333	3
1	PLUG MALE 5V	9004338	2
9.5'	CABLE	1700027	1

FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
BA11-1									
DIMENSIONAL TOLERANCE				DRN		DATE		PARTS LIST	
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED				6/25/74		6/25/74		digital	
TOLERANCES		ANGLES		PROJ. ENG.		DATE		TITLE	
XX = ±0.005		90° ±0.01		1/25/74		6/27/74		POWER CORD	
XX = ±0.002		90° ±0.01		PROG.		DATE		115 & 230 V	
XX = ±0.001		90° ±0.01		THIRD ANGLE PROJECTION		NEXT HIGHER ASSY.		SIZE CODE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		MATERIAL SEE PARTS LIST		D-AD-7009811-0-0		NUMBER		REV.	
FINISH		SCALE 1/1		SHEET OF		DIST.		DIA 7010131-0-0	
								A	

REV.	CHANGE NO.	DATE	BY
A	00001	9-12-74	B. WOLF
B	00002	9-17-74	B. WOLF

REV. A
NUMBER DIA 7010131-0-0
DATE CODE

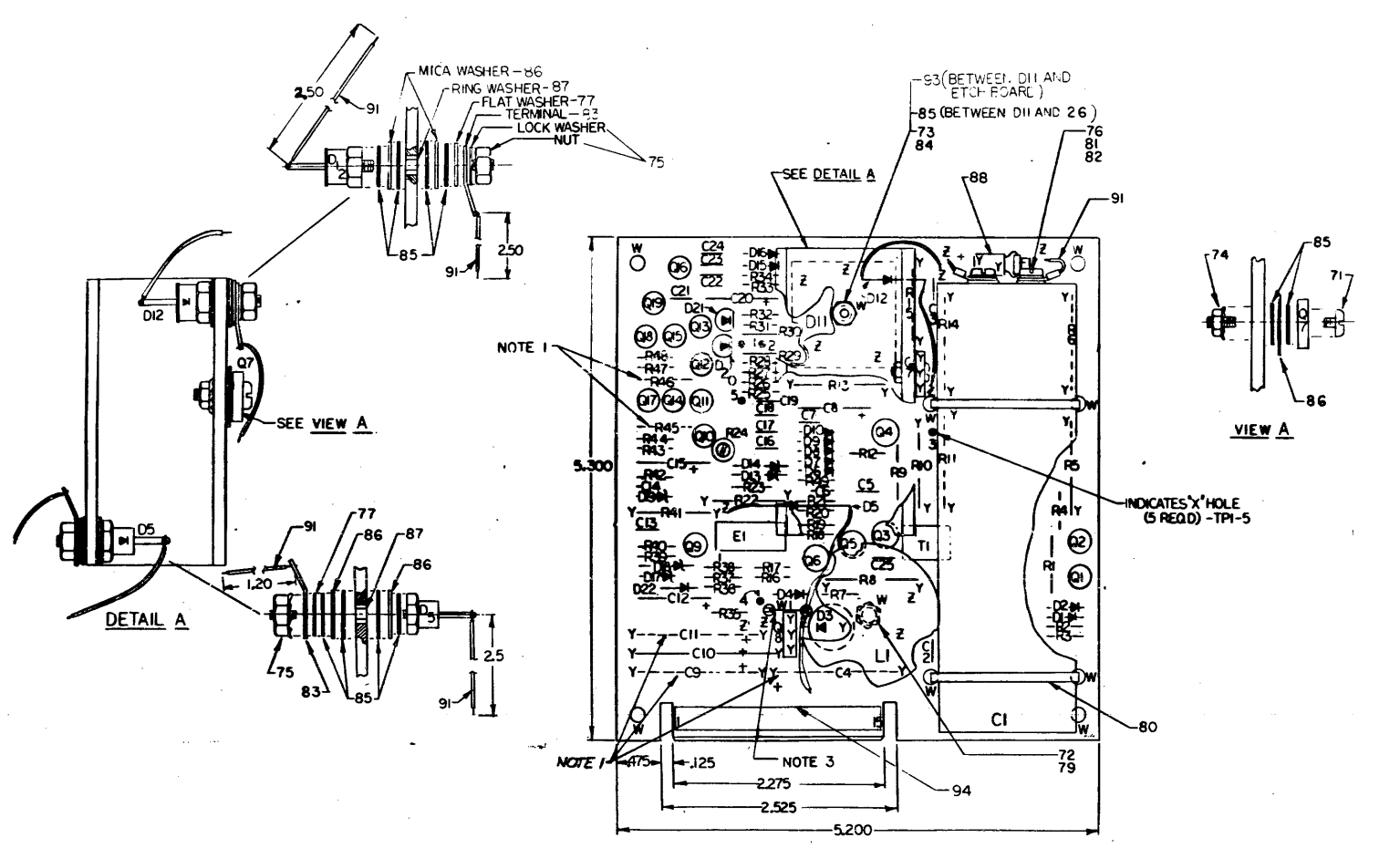
FIGURE 4 AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF DEVICES WITHOUT WRITTEN PERMISSION OF DIGITAL EQUIPMENT CORPORATION.

NOTES:

1. R45, R46, C4, C9, & C11 ARE NOT USED ON BASIC 541086 BUT ARE RESERVED FOR PLANNED FUTURE MODULE VARIATIONS.
2. ** TOTAL +15V AND +5V CURRENT NOT TO EXCEED 40 AMPERES.
3. W1 (TEST JUMPER) MAYBE TEMPORARILY REMOVED WHILE TROUBLE-SHOOTING TO DETERMINE IF LOSS OF 15V IS DUE TO CROWBAR CIRCUITRY, BUT MUST BE IN THE BOARD FOR NORMAL OPERATION.
4. NON-ITEMIZED PARTS SUPPLIED WITH D12.
- 4 YA VERSION DOES NOT CONTAIN +15VDC RES.

5. A) FOR STANDARD VERSION USE SHEETS 1, 2, 3 & 4 OF THIS LWF.
- B) FOR YA VERSION USE SHEETS 1, 2, & 3 OF THIS LWF.

SEE COMPONENT CHART FOR YA VERSION REF DESIGNATIONS



REF	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF			X-Y COORDINATE HOLE LOCATION	K-CO-541086-B-4	1
REF			ASSY/DRILLING HOLE LAYOUT	D-AH-541086-B-5	2
REF			MODULE ECO HISTORY	B-MH-541086-B-E	3
1			ETCHED CIRCUIT BOARD	5011005	4
1	1	C2	CAPACITOR 56PF 100V 5%	1000012	5
4	4	C16, C17, C18, C21	CAPACITOR 330PF 100V 5%	1000023	6
3	5	C3, C13, C19, C22, C23	CAPACITOR .01uf 100V 20%	1001610-01	7
3	3	C8, C12, C15	CAPACITOR 2.2uf 35V 10%	1002431	8
2	2	C6, C25	CAPACITOR 10PF 100V 5%	1002608	9
1	1	C20	CAPACITOR 1.5uf 35V 10%	1009725	10
4	4	C5, C7, C14, C24	CAPACITOR .22uf 50V -20% +80%	1010274-01	11
0	1	C10	CAPACITOR 500uf 25V -10% +75%	1010509-01	12
1	1	C1	CAPACITOR 8400uf 50V -10% +75%	1010851	13
1	2	D2, D19	DIODE 1N748A	1100122	14
0	1	D5	DIODE 1N2978B	1100134	15
0	1	D3	DIODE M10338	1103341	16
7	8	D1, D6, D7, D8, D9, D15, D16, D22	DIODE D672	1105275	17
1	2	D10, D17	DIODE 1N4744	1105648	18
0	1	D4	DIODE 1N4004	1105796	19
0	1	D12	DIODE 1N3888	1109440	20
0	1	D18	DIODE 1N907A	1110068	21
2	2	D20, D21	DIODE MVS054-1 (LIGHT EMITTING)	1110324	22
1	1	D11	DIODE BRIDGE 200V 20A	1110714	23
2	2	D13, D14	DIODE 1T72429	1110925	24
0	1	F1	FUSE PICO 5A	1205747	25
0	1		HEAT SINK	1211986	26
0	1	R23	RESISTOR 47 1/4W 5%	1300202	27
0	2	R7, R40	RESISTOR 100 1/4W 5%	1300229	28
0	1	R41	RESISTOR 100 1W 5%	1300232	29
1	3	R4, R12, R49	RESISTOR 220 1/4W 5%	1300271	30
0	1	R14	RESISTOR 220 2W 10%	1300278	31
0	1	R11	RESISTOR 600 2W 5%	1300348	32
2	2	R10, R20	RESISTOR 1K 1/4W 5%	1300365	33
0	1	R1	RESISTOR 1.5K 1/2W 5%	1300394	34
0	1	R10	RESISTOR 2.2K 1W 10%	1300420	35
1	1	R15	RESISTOR 3.3K 1W 10%	1300437	36
0	1	R3	RESISTOR 3.3K 1/4W 5%	1300439	37
2	2	R43, R47	RESISTOR 10K 1/4W 5%	1300479	38
0	1	R37	RESISTOR 10 1/4W 5%	1301317	39
2	3	R2, R44, R48	RESISTOR 750 1/4W 5%	1301481	40
0	1	R30	RESISTOR 600 1/4W 5%	1301424	41
0	1	R16	RESISTOR 22K 1/4W 5%	1301808	42
1	1	R13	RESISTOR 1K 2W 5%	1301952	43
0	1	R9	RESISTOR 27 1/2W 5%	1302253	44
2	2	R19, R21	RESISTOR 30K 1/4W 5%	1302394	45
0	1	R36	RESISTOR 511 1/4W 1%	1302411	46
0	1	R39	RESISTOR 909 1/4W 1%	1302605	47
1	1	R25	RESISTOR 3.18K 1/4W 1%	1303045	48
1	1	R8	RESISTOR 470 2W 5%	1303062	49
1	2	R17, R20	RESISTOR 1K 1/4W 1%	1303114	50
1	1	R31	RESISTOR 2.6K 1/4W 1%	1303303	51
0	1	R42	RESISTOR 10K 1/4W 1%	1303312	52
2	2	R23, R34	RESISTOR 5.11K 1/4W 1%	1304054	53
1	1	R30	RESISTOR 9.09K 1/4W 1%	1304855	54

COMPONENT CHART -YA VERSION

QTY	REF. DESIGNATION	ITEM
3	C19, C22, C23	7
1	C8	8
1	D19	14
7	D6, D7, D8, D9, D15, D16, D22	17
1	D10	18
1	R49	30
2	R44, R48	40
1	R25	50
4	Q3, Q6, Q10, Q19	63
4	Q11, Q12, Q13, Q16	66

IC PIN LOCATIONS

IC TYPE	GNF	+5V

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

SEMICONDUCTOR CONVERSION CHART

DEC NO. EIA NO. DEC NO. EIA NO.

DATE 5/10/75

BY V. BOEEN

CHECKED BY [Signature]

PWR LINE MONITOR/MSV RES.

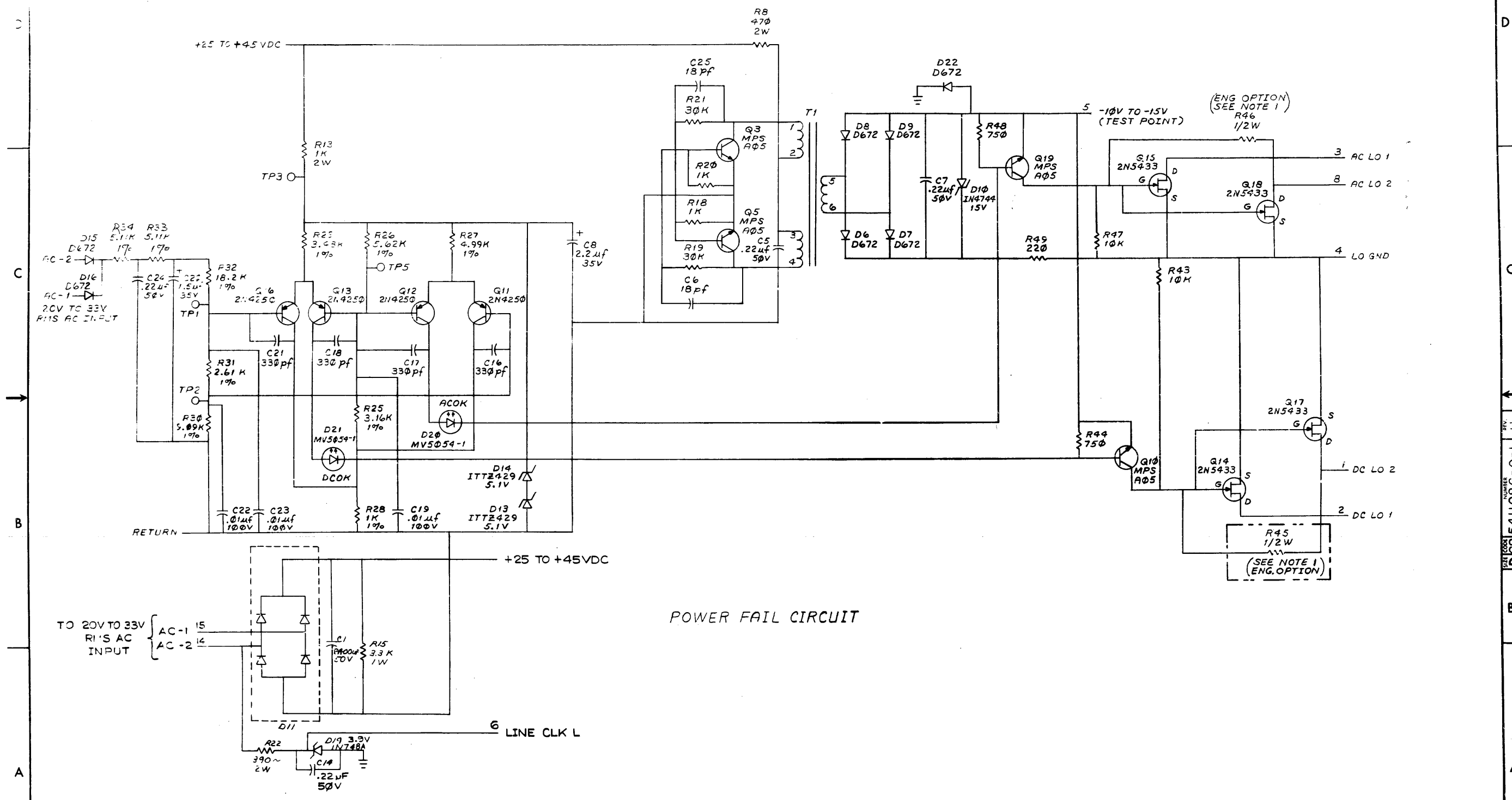
DATE 10-1-75

BY [Signature]

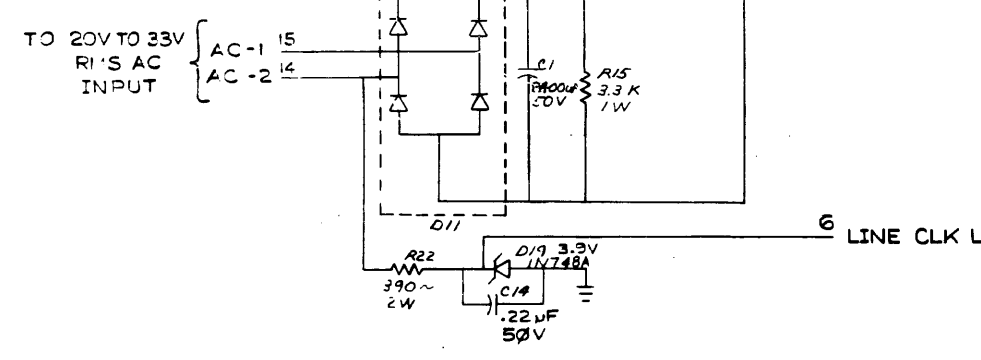
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DESIGN-0-1

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POWER FAIL CIRCUIT

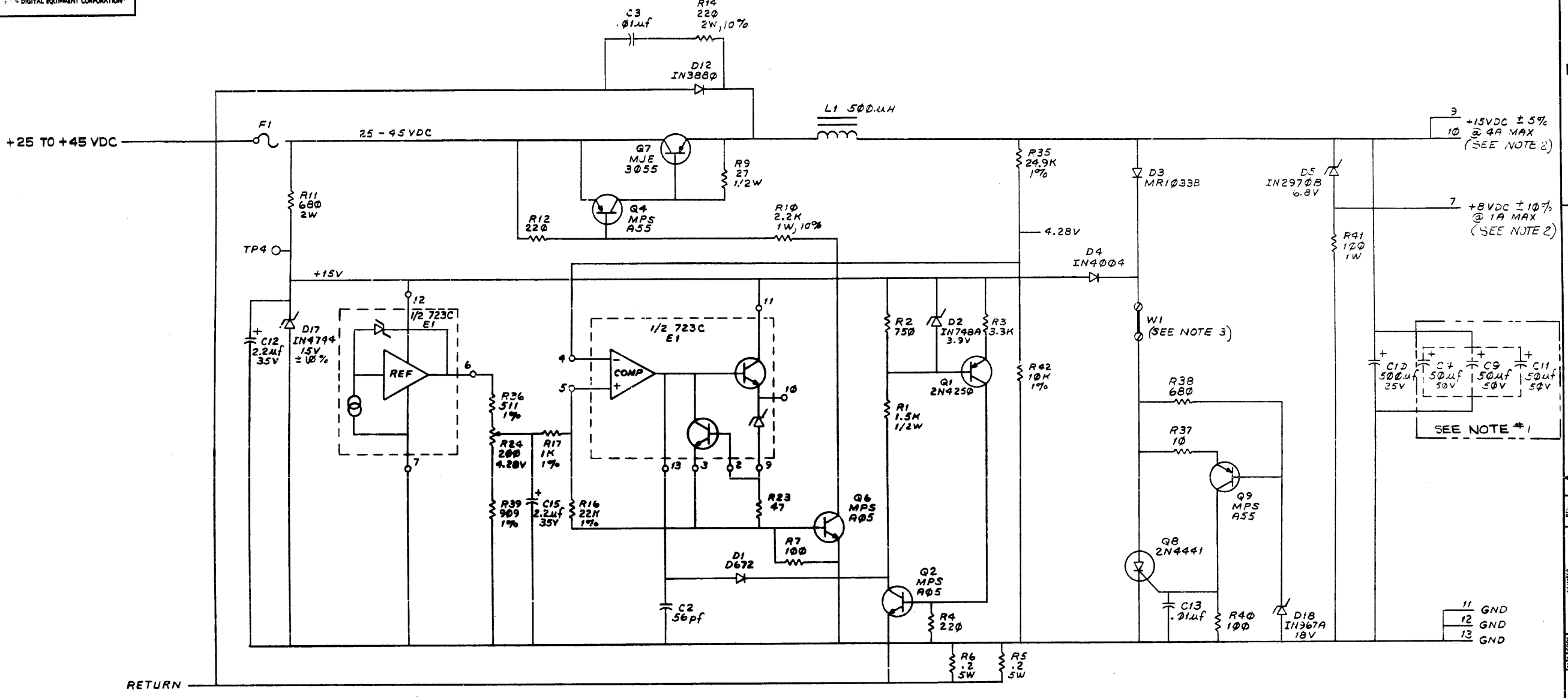


REVISIONS		
CHK	CHANGE NO.	REV.

REV. H NUMBER DCS 5411086-0-1

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1-0-980115-002



15V REGULATOR
(SEE NOTE #4)

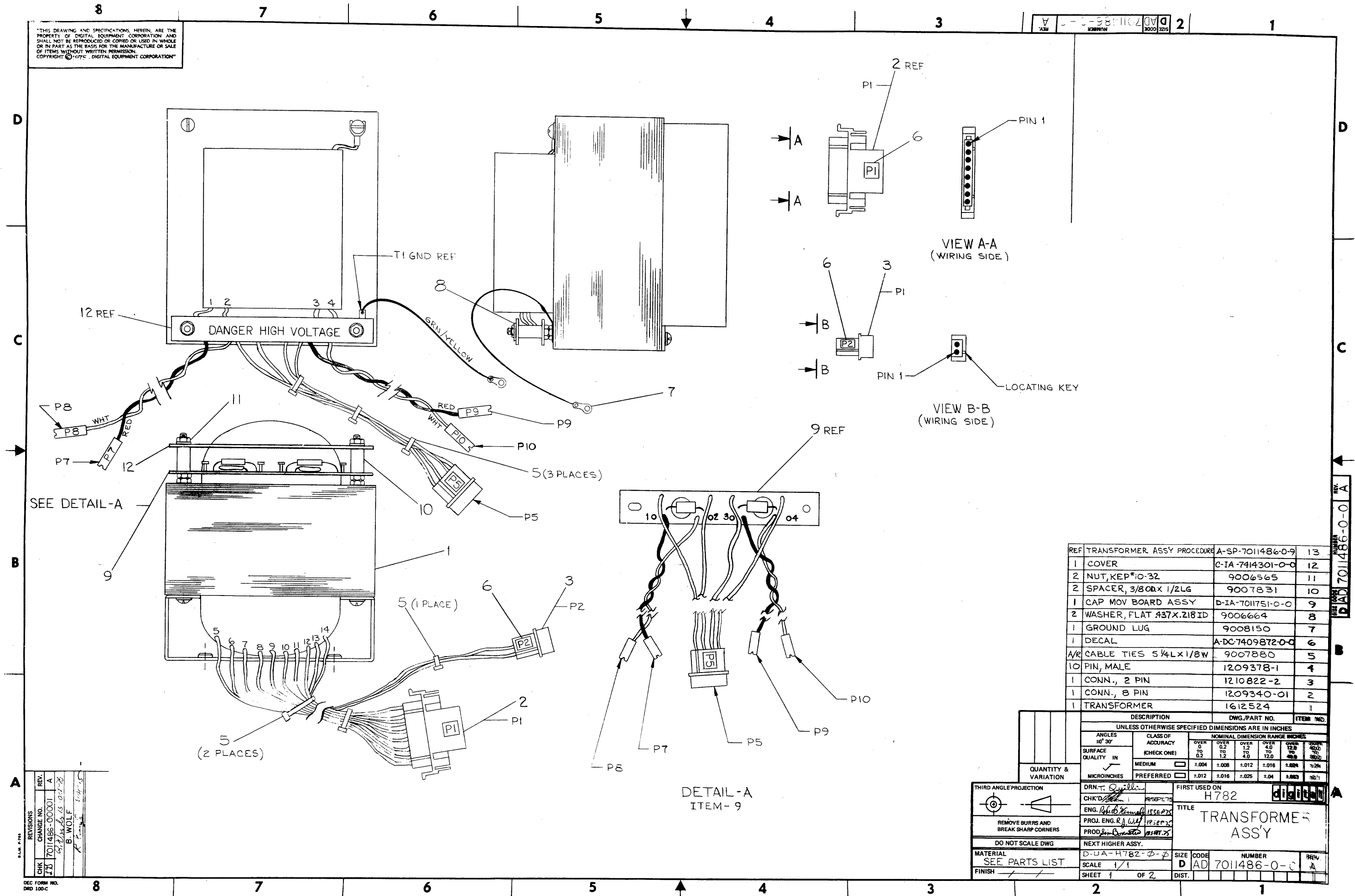
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PWR. LINE MONITOR/15V REG.	SIZE CODE	NUMBER	REV.
SCALE	1:1	SHEET	4 OF 4	4
DCS 5411086-0-1				

DCS 5411086-0-1

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REV. 2
 NUMBER 7011486-0-0
 SIZE CODE D
 DRAWING NUMBER 7011486-0-0



REF	DESCRIPTION	DWG. PART NO.	ITEM NO.
REF	TRANSFORMER ASSY PROCEDURE	A-SP-7011486-0-9	13
1	COVER	C-IA-7414301-0-0	12
2	NUT, KEP® 10-32	9006565	11
2	SPACER, 3/8 OD X 1/2 LG	9007831	10
1	CAP MOV BOARD ASSY	D-IA-7011751-0-0	9
2	WASHER, FLAT .437 X .218 ID	9006664	8
1	GROUND LUG	9008150	7
1	DECAL	A-DC-7409872-0-0	6
A/R	CABLE TIES 5/4 L X 1/8 W	9007880	5
10	PIN, MALE	1209378-1	4
1	CONN., 2 PIN	1210822-2	3
1	CONN., 8 PIN	1209340-01	2
1	TRANSFORMER	1612524	1

QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
SURFACE QUALITY IN	MEDIUM	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
MICROINCHES	PREFERRED	±.004	±.008	±.012	±.016	±.024	±.048
THIRD ANGLE PROJECTION		DRN. T. Quillen		FIRST USED ON H782		DIGITAL	
REMOVE BURRS AND BREAK SHARP CORNERS		CHK'D. [Signature]		TITLE TRANSFORMER ASSY		REV. A	
DO NOT SCALE DWG		NEXT HIGHER ASSY.		MATERIAL D-DA-H782-Φ-Φ		SCALE 1/1	
FINISH		SHEET 1 OF 2		DIST.		REV. A	

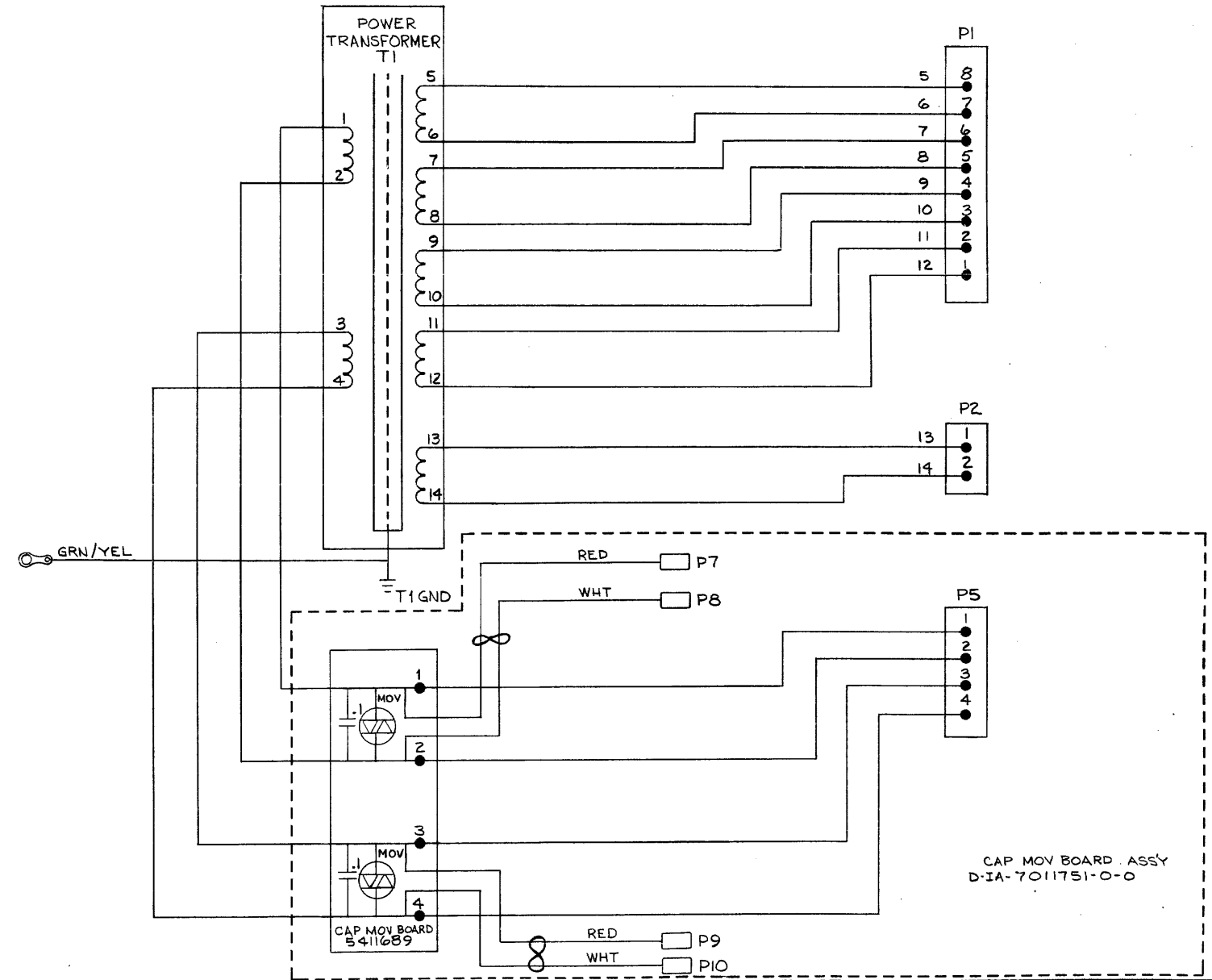
REV.	CHANGE NO.	BY	DATE
A	00001	B. WOLF	12/15/75

DEC FORM NO. DRD 100-C

DRAWING NUMBER 7011486-0-0

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WIRE TABLE							
ITEM NO.	AWG	COLOR	FROM	WITH	TO	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.

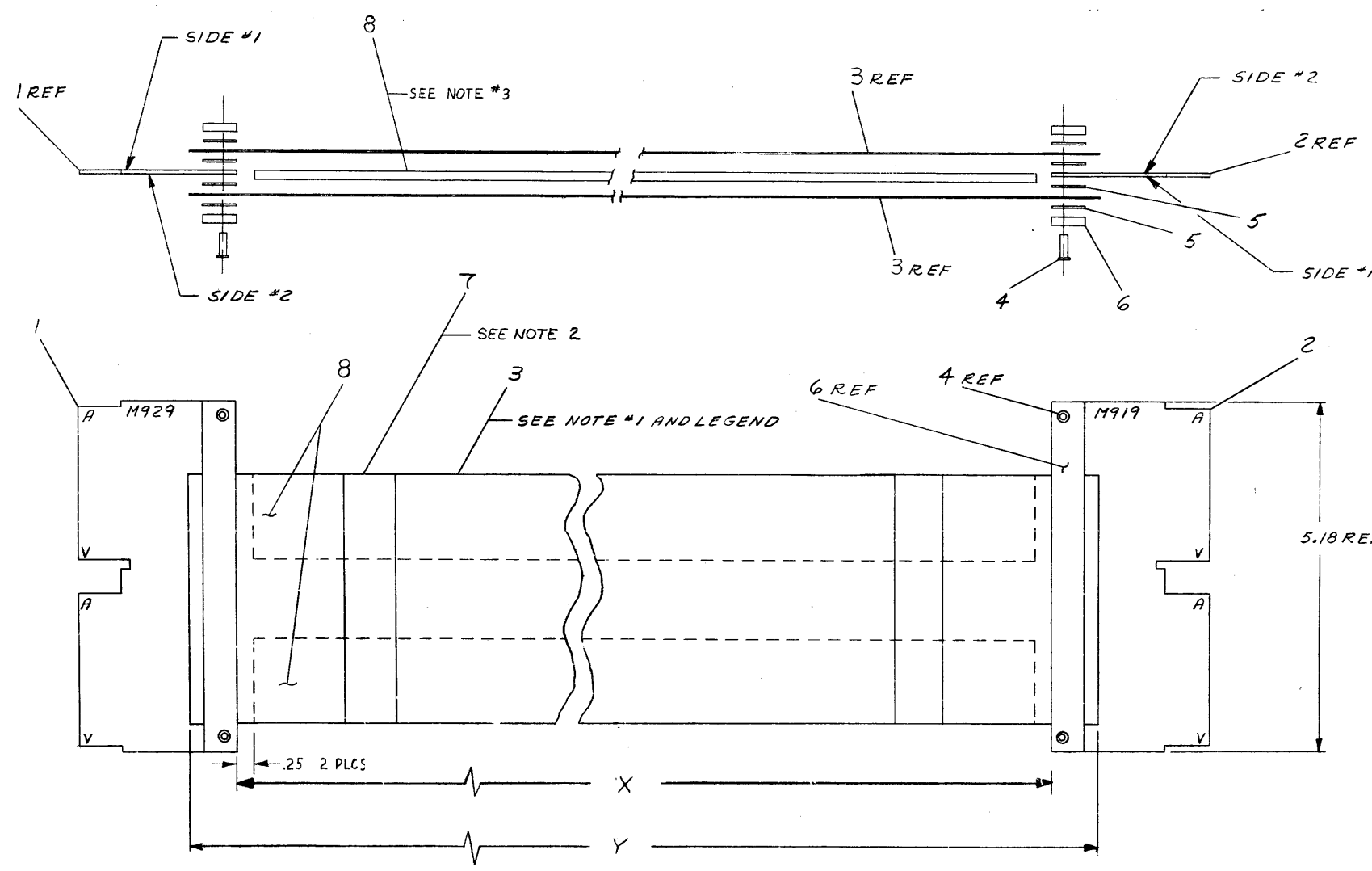
TITLE	SIZE CODE	NUMBER	REV.
TRANSFORMER ASSY	D	AD 7011486-0-0	A
SCALE	SHEET	OF	DIST.
	2	2	

SIZE CODE NUMBER REV
 D AD 7011486-0-0 A

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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.
A/R	GRAY FOAM	9008881	8
A/R	BLK ELECTRICAL TAPE	3009260	7
4	CLAMP CABLE	C-5C-120976000	6
A/R	TAPE #4032 1/2W X 3 1/16LG	9007834	5
4	EYELET GS-4-11 STIMSON	9006750	4
2	CABLE "FLEXPRINT"	1700602-01	3
1	EXT. BUS CONN	A-PL-M919-0-0	2
1	BUS CONN	A-PL-M929-0-0	1

PARTS LIST		TITLE	
DATE	11/17/69	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CABLE ASSY (BC1A)
CHK'D	11/17/69		
ENG	11/17/69		
PROJ. ENG	11/17/69	SIZE CODE	NUMBER
PROD	11/17/69	DUA-11/20-0-0	DUA/BC1A-0-0
NEXT HIGHER ASSY		SCALE	1/1
FINISH		SHEET	2 OF 2
REV	F	DIST	

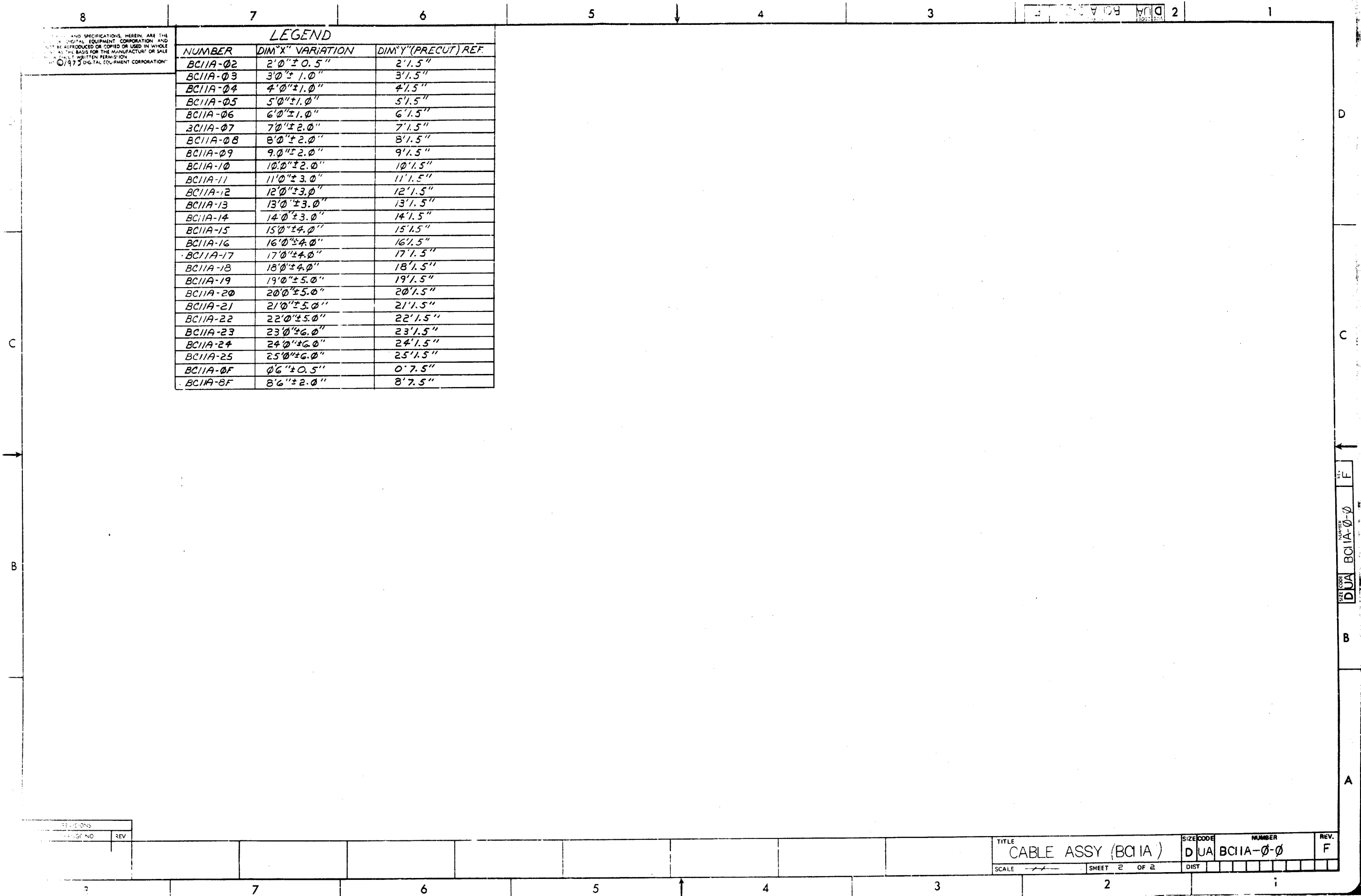
REV	DESCRIPTION	DATE
A	11/17/69	
B	11/17/69	
C	11/17/69	
D	11/17/69	
E	11/17/69	
F	11/17/69	

DUA/BC1A-0-0

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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"

DUA BC11A-0-0 2



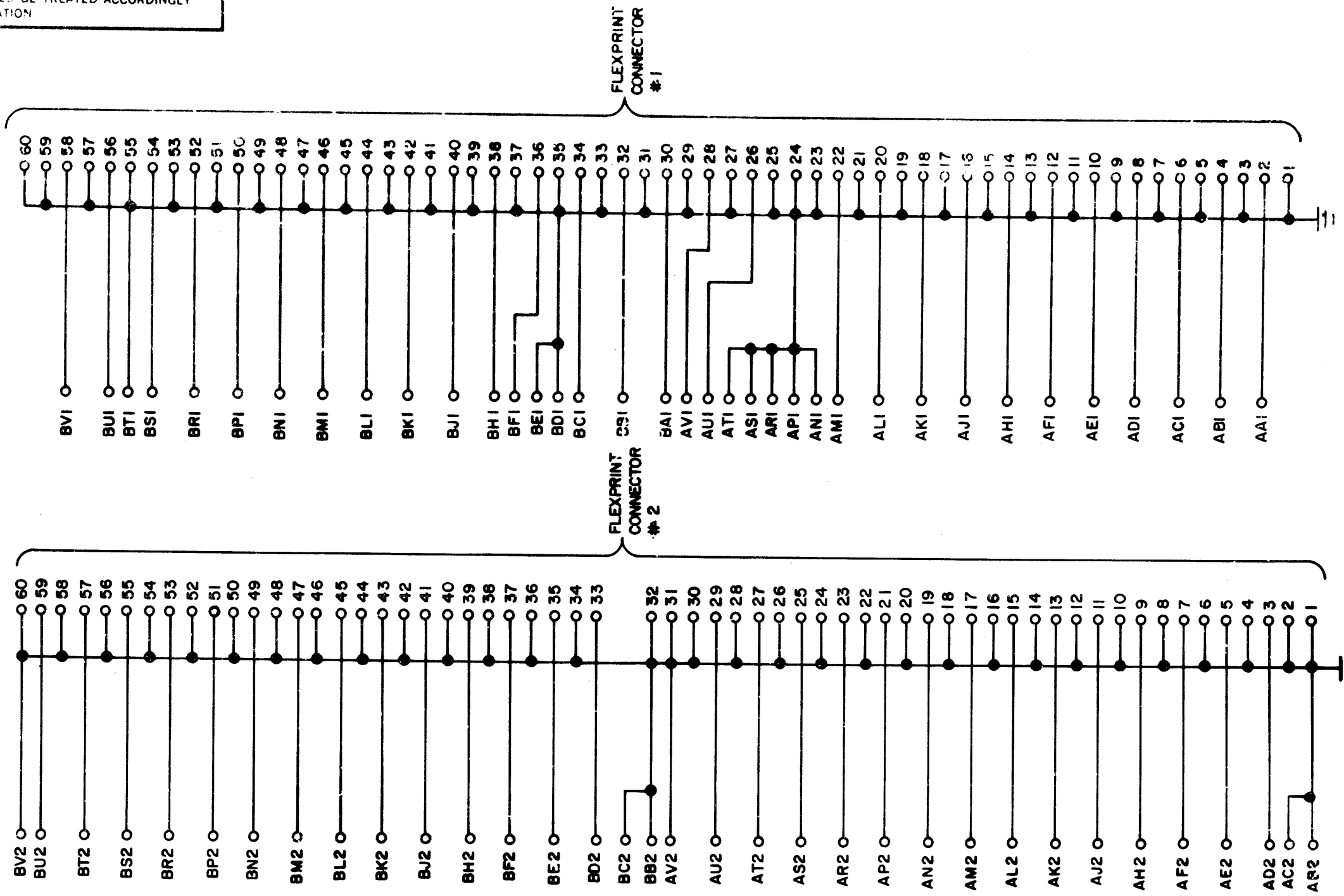
REV	DESCRIPTION

TITLE	CABLE ASSY (BC11A)	SIZE CODE	DUA	NUMBER	BC11A-0-0	REV.	F
SCALE	1"=1'	SHEET	2	OF	2	DIST	

REV. F
 NUMBER BC11A-0-0
 SIZE CODE DUA

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



REVISIONS	
CHK	CHG NO. REV.
27	00001 A

DRN <i>BUTLER</i>	DATE <i>10-20-69</i>
CHK'D <i>G. Hall</i>	DATE <i>11-7-69</i>
ENG <i>B. Hall</i>	DATE
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC		EIA	

EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

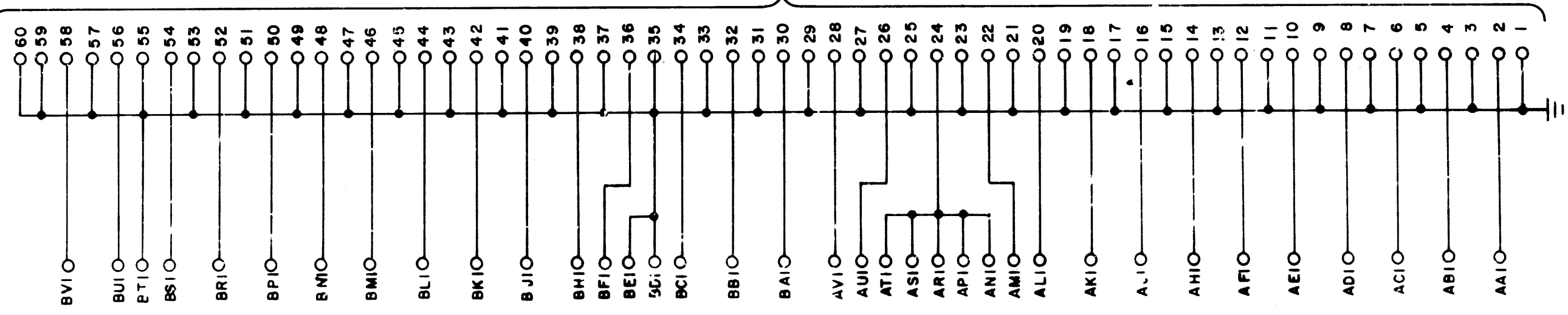
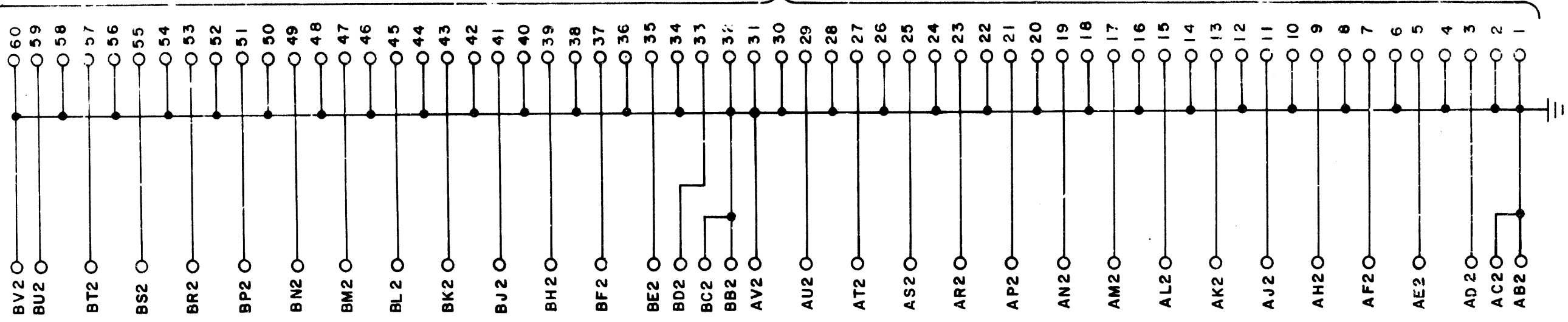
TITLE BUS CONNECTOR M919			
SIZE B	CODE CS	NUMBER M919-0-1	REV. A
PRINTED CIRCUIT REV			B

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REV NUMBER B SIZE CODE M929-0-1

FLEX PRINT CONNECTOR #1

FLEX PRINT CONNECTOR #2



REVISIONS	
CHK	CHG NO REV

DRN	DATE
<i>[Signature]</i>	10-12-69
CHK'D	DATE
<i>[Signature]</i>	10-2-69
ENG	DATE
<i>[Signature]</i>	11/10/69
PROD	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE BUS CONNECTOR M929			
SIZE B	CODE CS	NUMBER M929-0-1	REV.
PRINTED CIRCUIT REV			B

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9W-0-11WKS 2

1

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W130 PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	R1, R3, R7, R9, R11, R13, R15, 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	R2, 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 BLOCK, CONNECTOR	1209123	1

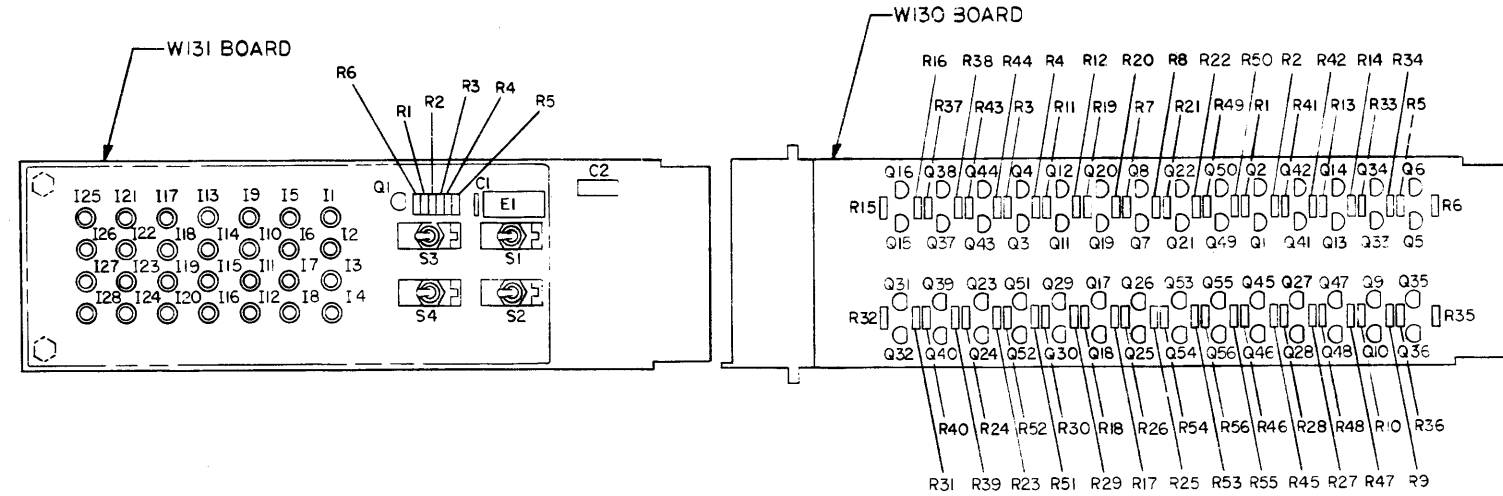
W131 PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1	DEC 7400N I.C.	1905575	1
2	C1	.01 MFD, 100V, 20% DC CAP.	1001610	1
3	C2	6.8 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	I1-I28	LAMP HUDSON, BLUE #2309G	1209219	28
8	S1-S4	SWITCH, TOGGLE, SPST, 6ATT-12	1201168	4

NOTES:

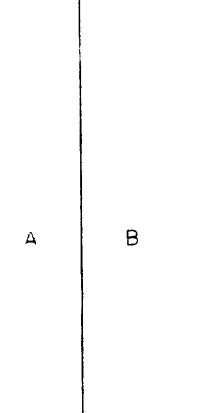
- THE KM11 IS A TWO MODULE (W130, W131) OPTION TO THE KA11 TO AID MAINTENANCE. THIS PREWIRED OPTION IS INSTALLED BY INSERTING THE W130 MODULE INTO LOCATION B02 AND INSERTING THE W131 MODULE INTO THE W130. NOTE THAT THE SWITCHES AND LIGHTS FACE TOWARD AND EXTEND BELOW THE CONSOLE. THE BOTTOM COVER MUST 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 R/W 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



PIN NOMENCLATURE

MODULE PROCESSOR



REV	CHANGE NO.

DEC FORM NO 092 100

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FIRST USED ON OPTION/MODEL PDP11

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED. DIMENSION IN INCHES. TOLERANCES: DECIMALS FRACTIONS ANGLES ± .008 ± 1/64 ± 0°30'. FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS. MATERIAL: FINISH:

QTY.	DESCRIPTION	PART NO.	ITEM NO.

DRN: [Signature] DATE: 11/15/70
 CWF: [Signature] DATE: 11/15/70
 ENG: [Signature] DATE: 5/17/70
 PBI: [Signature] DATE: 5/17/70
 MFG: [Signature] DATE: 5/15/70

TITLE: MAINTENANCE BOARD (1&2) KM-1
 NEXT HIGHER ASSY: A-ML-KM11-0
 SCALE: 1/1
 SHEET: 1 OF 3

digital EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

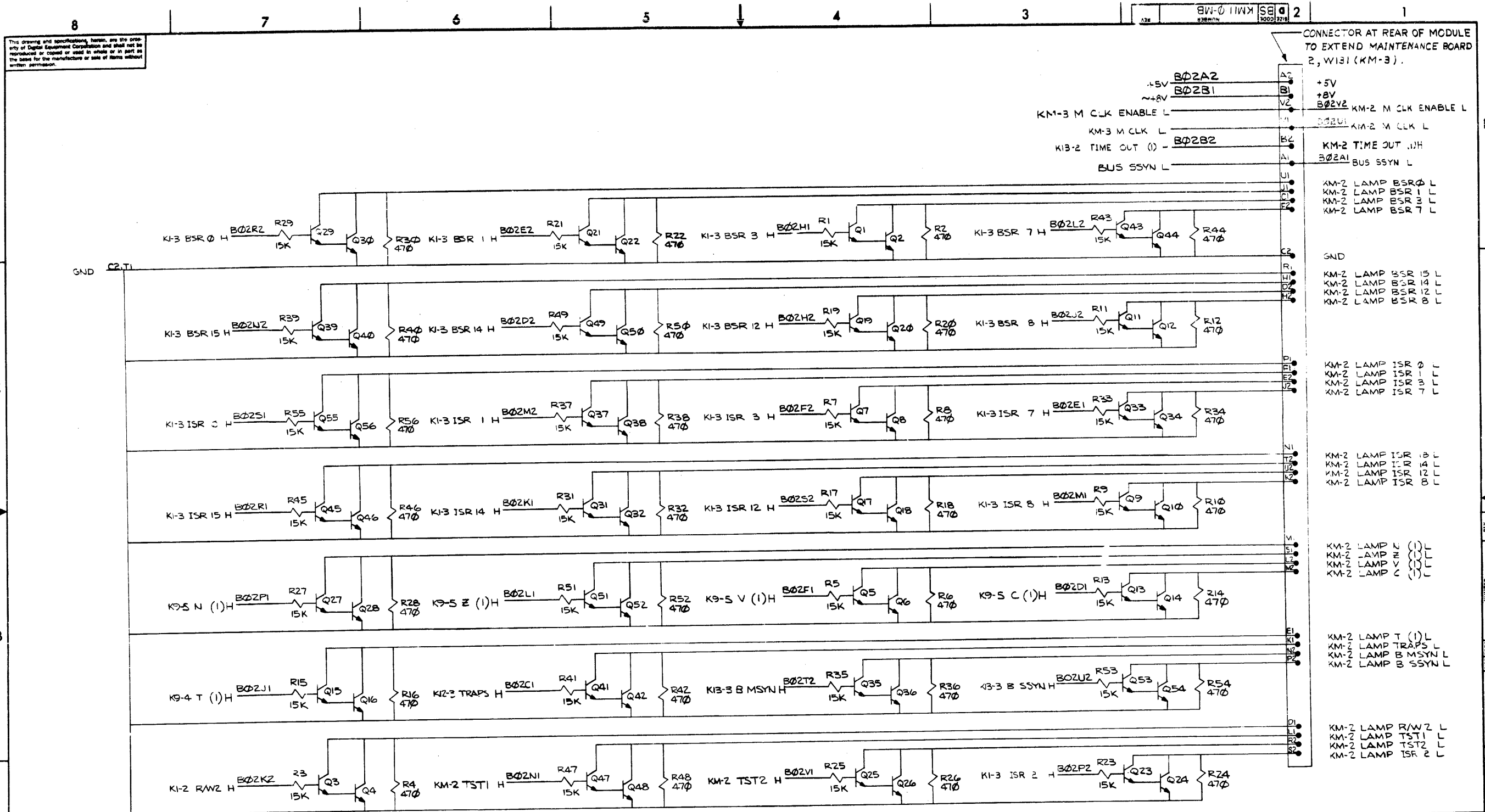
SIZE CODE: DBS KM11-0-MB
 NUMBER: DBS KM11-0-MB
 REV:

REV. NUMBER DBS KM11-0-MB

B

A

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REV	NO	DATE

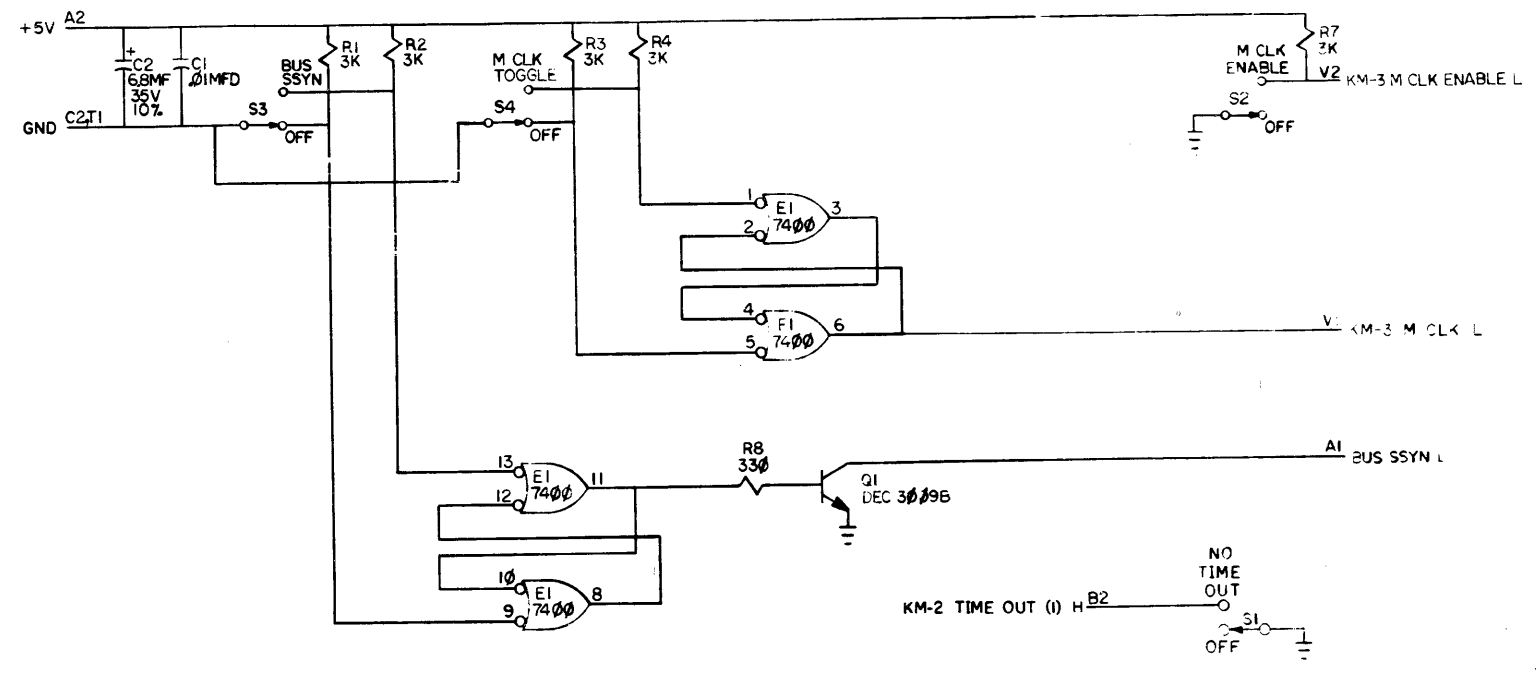
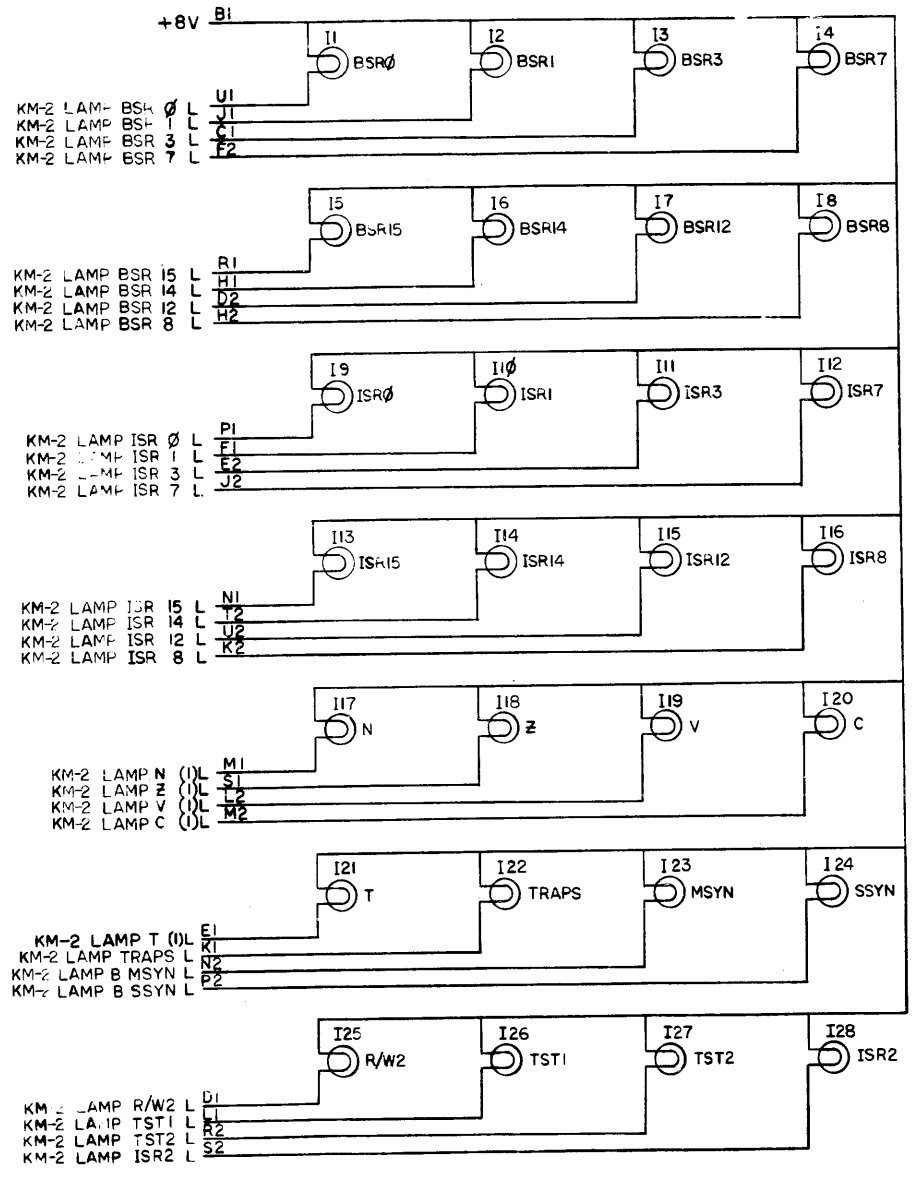
DEC FORM NO 102A

FIRST USED ON OPTION MODEL PDP 11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRN K. Williams	DATE 12-18-69	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHKD A. Williams	DATE 9/25/73	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
DIMENSION IN INCHES	ENG A. Williams	DATE 3-6-74	TITLE MAINTENANCE BOARD (I)	
DECIMALS FRACTIONS ANGLES	PRJL ENG A. Williams	DATE 3-6-74	SIZE CODE W130	
± 0.08 ± 1/64 ± 0°30'	DATE 12/15/70	DATE 12/15/70	NUMBER KM-2	
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS	NEXT HIGHER ASSY A-M-L-KM11-φ	SCALE NONE	SIZE CODE DBS	
MATERIAL	FINISH	SHEET 2 OF 3	NUMBER KM11-φ-MB	
			DIST	

REV
NUMBER
KM11-φ-MB
SIZE CODE
DBS

A

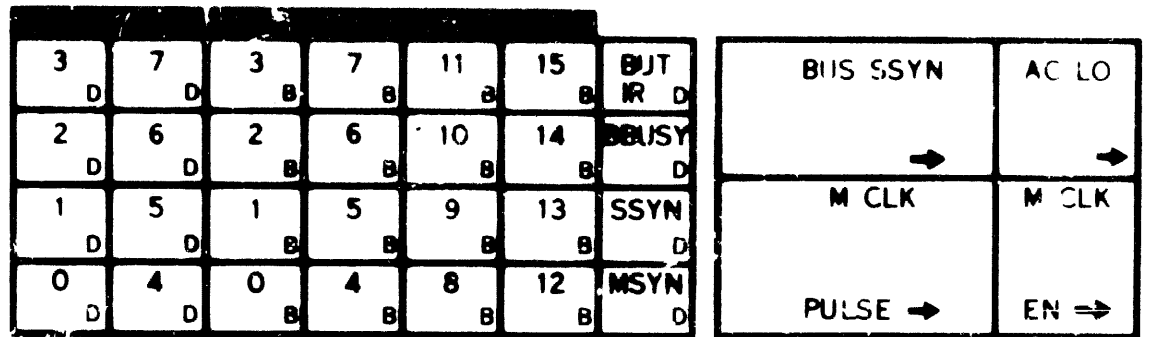
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REVISIONS	REV
CHANGE NO.	
CHK	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP 11				
UNLESS OTHERWISE SPECIFIED				
DRAWN	DATE	PARTS LIST		
CHKD	DATE	digital EQUIPMENT CORPORATION		
ENG	DATE	TITLED		
PROJ ENGR	DATE	MAINTENANCE BOARD(2)		
DATE	DATE	WI31 KM-3		
MATERIAL		NEXT HIGHER ASSEMBLY		
FINISH		SCALE NONE		
		DISTRIBUTION		

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D-JIM WHEN ASSERTED
B BRIGHT WHEN ASSERTED

5509081-0-9

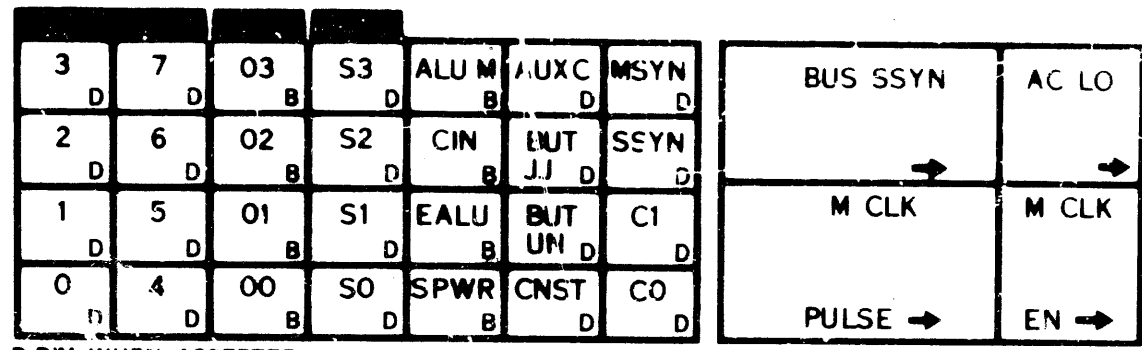
FIRST USED ON DAT, MIP
11/05

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 5-22-72	
ENG. [Signature]	DATE 5-22-72	
PROJ. ENG. A. Teriba	DATE 5-22-72	
PROD. R.K. Peterson	DATE 5/27/72	
NEXT HIGHER ASSY C-IA-5509081-0-0		TITLE MAINT MODULE OVERLAY (11/05 - KMI)
SCALE	SIZE CODE A 55	NUMBER 5509081 0-9
SHEET	OF	DIST

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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)

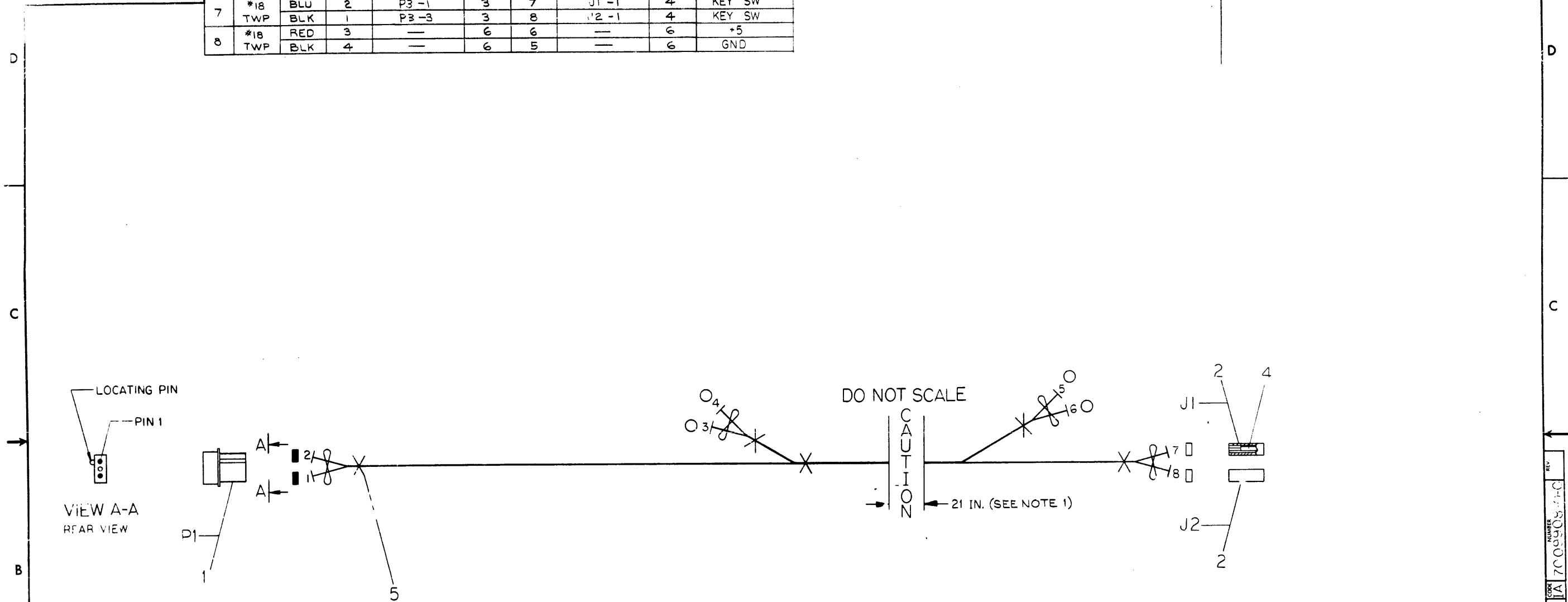
DRN. <i>D. Mattson</i>	DATE <i>5/1/72</i>	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
CHK'D <i>By [Signature]</i>	DATE		
ENG. <i>[Signature]</i>	DATE	TITLE MAINT MODULE OVERLAY (11/05-KM2)	
PROJ. ENG. <i>A. Fisher</i>	DATE <i>5-23-72</i>		
PROD. <i>R. Peterson</i>	DATE <i>5/24/72</i>		
C-IA-5509081-0-0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

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WIRE TABLE

ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
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., SOLDEFLESS 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 SKT	1210820-1	2
	1 HOUSING, 3 PIN	1209351-03	1

REV

FIRST USED ON OPTION/MODEL		SYM.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05-S						
DIMENSIONAL TOLERANCE				PARTS LIST		
DIMENSIONS ARE MILLIMETERS INCHES UNLESS OTHERWISE SPECIFIED				DRN. <i>and Meloy</i> DATE 4-16-74 CHK'D. <i>Penfield</i> DATE 5-19-74 ENG. <i>W. R. ...</i> DATE 7-18-74 PROJ. ENG. <i>S. ...</i> DATE 12-17-74 PRD. <i>K. ...</i> DATE 8-27-74		
MILLIMETERS	INCHES	ANGLES	TITLE digital CONSOLE POWER HARNESS			
X.XX ±0.10 X.X ±0.5 X ±2	XXX ±.005 XX ±.02 X ±.1	±0° 30'	THIRD ANGLE PROJECTION REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓ NEXT HIGHER ASSY.			
MATERIAL SEE PARTS LIST		D-0A-1, 05-...		SIZE CODE	NUMBER	REV.
FINISH		SCALE 1/1		DIA	7009908-0-0	
		SHEET 1 OF 1		DIST.		

REV
DIA 7009908-0-0

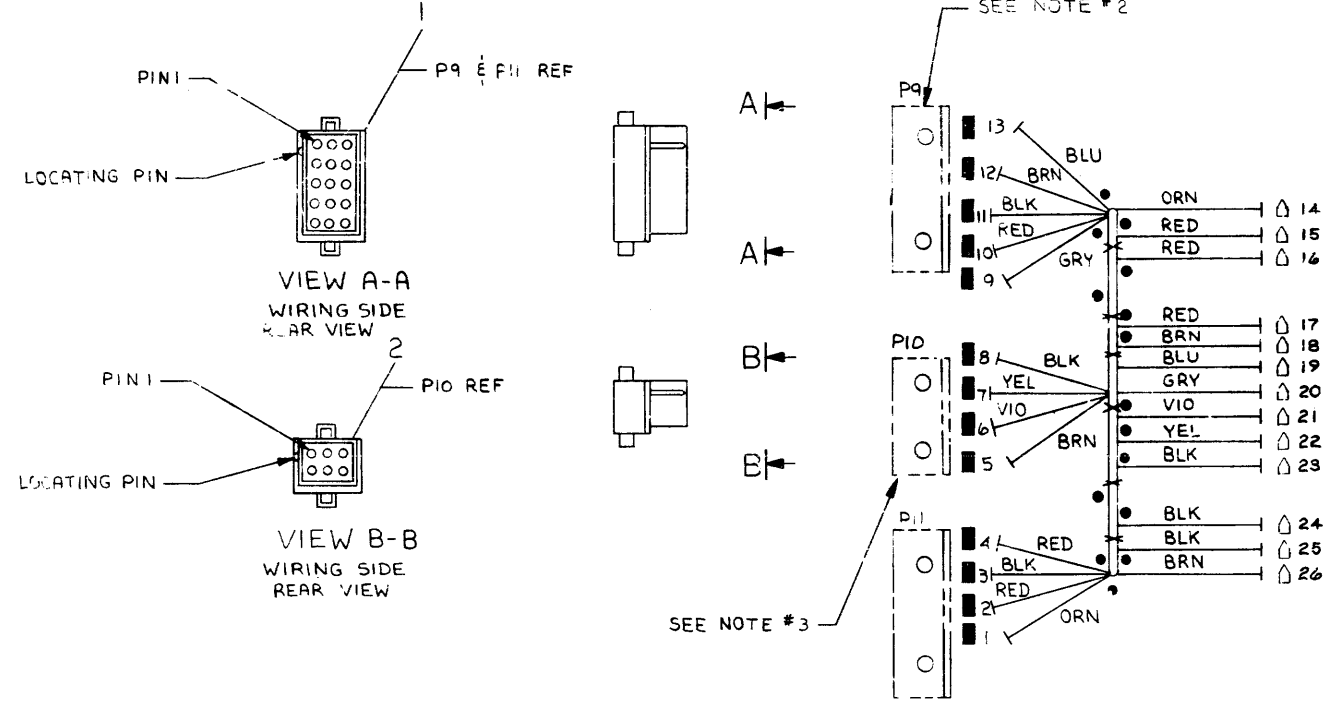
ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL	LENGTH
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH		
7	#14	ORN	1	PII - 3	3	14			+20V	7 1/2
5	#14	RED	2	PII - 1					+5V	6
6	#14	BLK	3	PII - 8		23			GND	4 1/4
9	#14	RED	4	PII - 4		15			+5V	7 1/8
10	#18	BRN	5	PIO - 2		26			LTC	5 1/2
12	#18	YEL	7	PIO - 4		22			AC LO	3 3/4
11	#18	VIO	6	PIO - 3		21			DC LO	3 3/4
8	#14	BLK	8	PII - 1		24			GND	4 7/8
8	#18	GRY	9	PII - 2		20			+15V	7 1/4
5	#14	RED	10	PII - 1		16			+5V	3 1/2
6	#14	BLK	11	PII - 8		25			GND	7 1/4
10	#18	BRN	12	PII - 14		18			-5V	4 3/4
9	#18	BLU	13	PII - 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

SEE NOTE #6

SEE NOTE #2

SEE NOTE #3



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 GRV	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	9007031	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: OPTION/MODEL	SYM.	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/05-					

DIMENSIONAL TOLERANCE		DRN.	DATE	
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		CHK'D	DATE	
MILLIMETERS	INCHES	ENG.	DATE	
X.XX ±0.10	.XX ±0.006	PROJ. ENG.	DATE	
X.X ±0.15	.XX ±0.02	PROD.	DATE	
X ±0.2	.X ±0.1			
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.		TITLE
				POWER HARNESS
				3.5 IN
				SIZE CODE NUMBER REV.
				DIA 7010113-0-0 A
				SCALE 1/1
				SHEET OF 1

REV. 7010113-0-0

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS SOFTWARE LIST					LEGEND D DOCUMENT DN DOCUMENT CHANGE NOTICE PA PAPER TAPE ASCII PB PAPER TAPE BINARY PM PAPER TAPE READ-IN-MODE					QUANTITY / VARIATION									
MADE BY E. Pellegrini			CHECKED C. Teschior		SECTION														
DATE 5/30/72			DATE 5-31-72																
ENG S.D. Weeks			PRODR K. Peterson		ISSUED SECT.														
DATE 5-31-72			DATE 5/31/72																

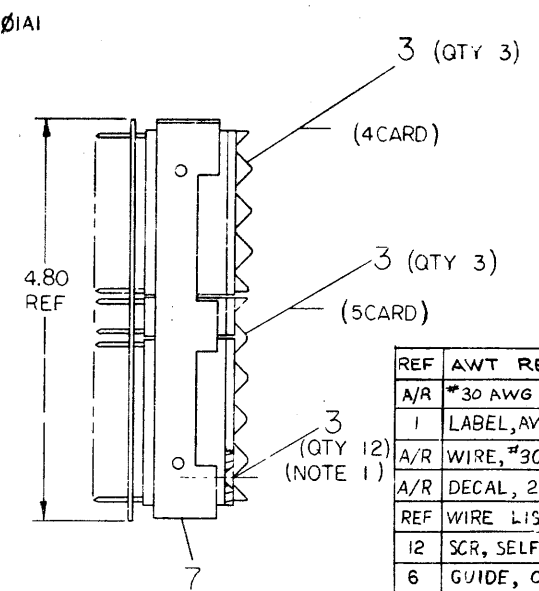
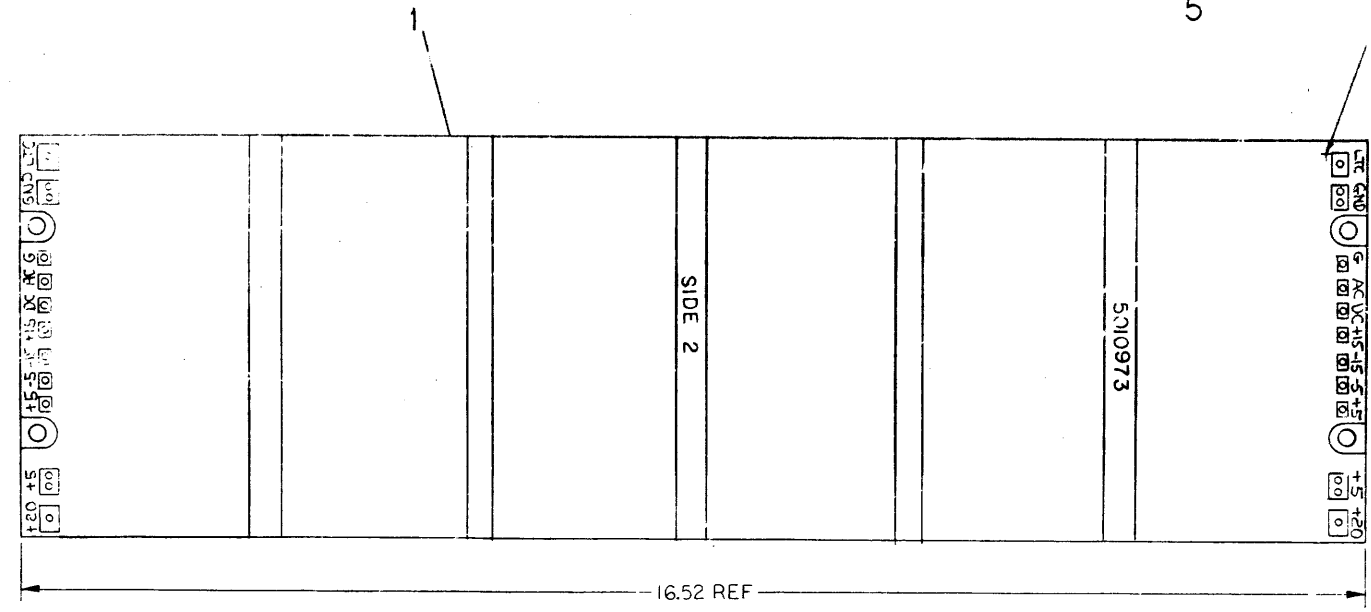
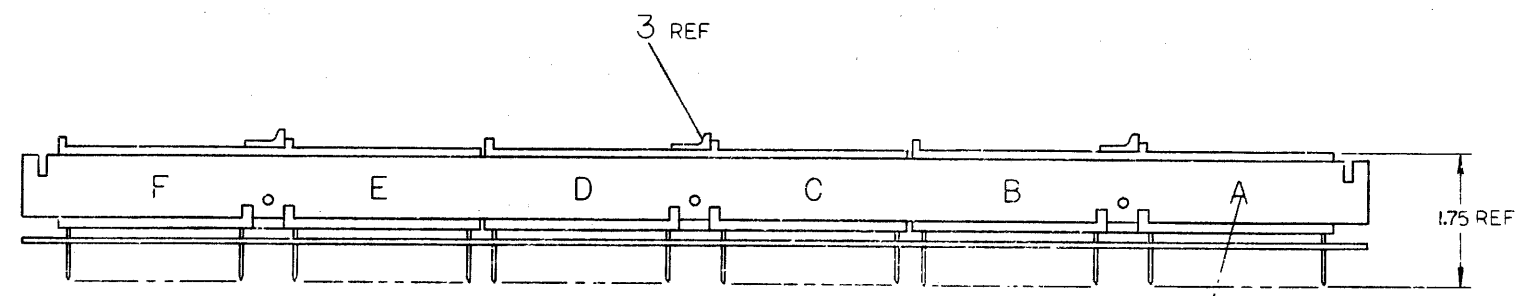
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	ALL MODELS	KIT CHECK	BY	DATE	INSTALLATION CHECK	BY	DATE
1	LIBKIT 11/05 BASEA-A-K	BASIC DIAGNOSTIC KIT	*						
2	LIBKIT 11/05 XBASA-A-K	SYSTEM SOFTWARE KIT	*						
NOTE: THESE ITEMS ARE TO BE SHIPPED ONLY WHEN SHOWN ON THE CONSTRUCTION REQ.									

TITLE	ASSY. NO.	SIZE	CODE	NUMBER	REV.	ECO NO
PDP-11/05 SOFTWARE LIST	11/05-0-0	A	SL	11/05-0-05		
	SHEET	OF		DIST.		

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ITEM NO.	DESCRIPTION	FROM		TO		SIGNAL NAME
		CONN	WITH	CONN	WITH	
5	#30 BLK	A04L1	SELF	F01N1	SELF	DPH SER IN L
	TWP WHT	A04P1		F01P1		DPH SI-15 L
6	#30 BLK	B04E1		F01E2		DPH SER O L
	TWP WHT	B04M1		F01J2		DPH SO-15 L
7	#30 BLK	B04P1		F01K2		DPH RDR ENB L
	TWP WHT	B04K1	SELF	F01R1	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	9
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			D-IA-7009921-0-0	1

FIRST USED ON OPTION/MODEL 11/05-S		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST					
DIMENSIONAL TOLERANCE		DRN.	Carl McCoy	DATE	5-7-74
DIMENSIONS ARE MILLIMETERS INCHES		CHK'D	D. P. [unclear]	DATE	7-29-74
UNLESS OTHERWISE SPECIFIED		END	R. [unclear]	DATE	8-20-74
MILLIMETERS	INCHES	ANGLES	PROJ. ENG.	DATE	8-20-74
X.XX ±0.10	XXX ±.006	±0° 30'	PROD.	DATE	8-20-74
X.X ±0.5	JX ±.02		PROD.	DATE	8-20-74
X ±.2	X ±.1		PROD.	DATE	8-20-74
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.			
MATERIAL	SEE PARTS LIST	SIZE CODE	NUMBER	REV.	
FINISH		D-AD-7010594-0-0	D AD 7009922-0-0	A	
SCALE 1/1		SHEET 1 OF 1		DIST.	

CHANGE NO. 1
 REV. A
 11/05-S
 ANTON
 11/05-S

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**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. Durant</i>	APPD <i>D. Johnson</i> 12-5-73	SIZE A	CODE SP	NUMBER MF11-U-3	REV
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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 Key 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

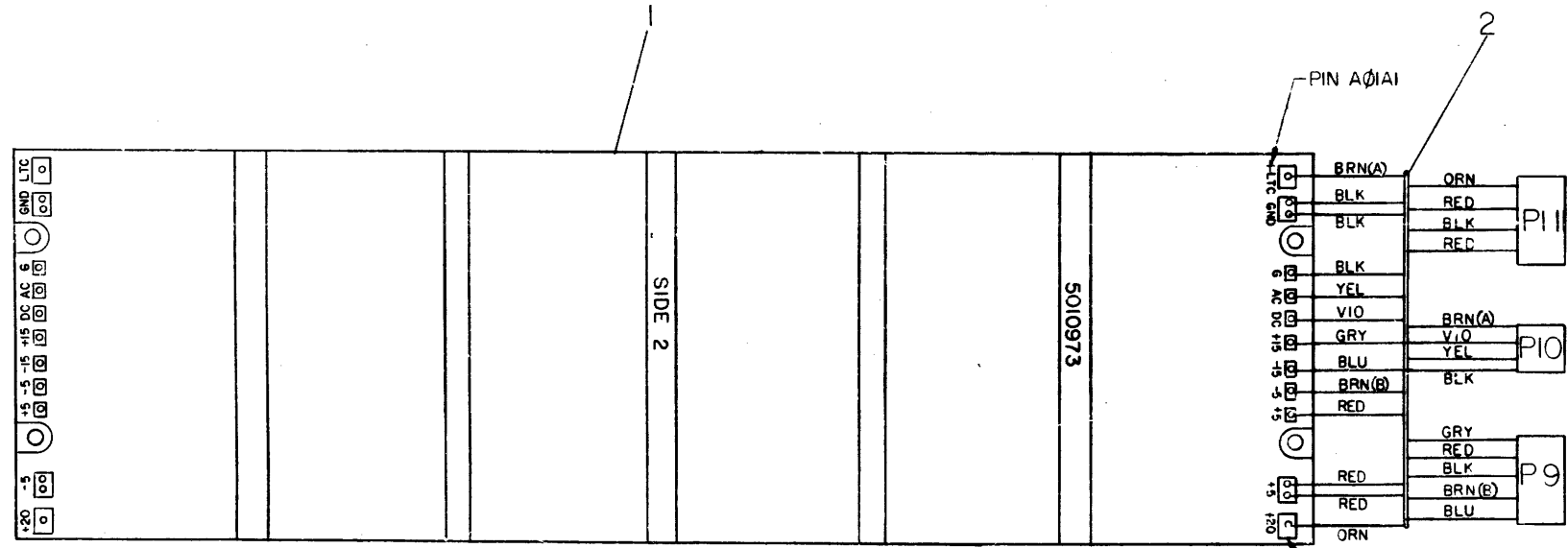
SIZE A	CODE SP	NUMBER MF11-U-3	REV
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DEC FORM NO DEC 16-(381)-1022-M370
DRA 108

SHEET 2 OF 2

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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.



SOLDER (TYP) SEE NOTE 1

REV.	DESCRIPTION	DATE
1	INITIAL	12-20-74
2	REVISED	12-20-74
3	REVISED	12-20-74
4	REVISED	12-20-74
5	REVISED	12-20-74
6	REVISED	12-20-74
7	REVISED	12-20-74
8	REVISED	12-20-74

REF	AWT	REV.	STATUS	A-WT-7009922-0	3
1	PWR HARNESS	3.5"		D-IA-7010113-0-0	2
1	WIRED ASSY			D-AD-7009922-0-0	1

QUANTITY & VARIATION	DESCRIPTION		DWG./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 0 TO 0.5	OVER 0.5 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0
		±.004	±.008	±.012	±.016	±.024
MICROINCHES	PREFERRED	±.012	±.018	±.025	±.031

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. *S. J. Baker* 12-17-74

CHK'D *[Signature]* 12-18-74

ENG. *[Signature]* 12-20-74

PROJ. ENG. *[Signature]* 12-20-74

PROD. *[Signature]* 12-20-74

NEXT HIGHER ASSY.

E-UA-11/05-S-0

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON 11/05-S

TITLE LOGIC ASSEMBLY

SIZE CODE D AD

NUMBER 7010594-0-0

REV. A

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS ACCESSORY LIST			LEGEND D DOCUMENT DN DOCUMENT CHANGE NOTICE PA PAPER TAPE ASCII PB PAPER TAPE BINARY PM PAPER TAPE READ-IN-MODE		QUANTITY VARIATION										
MADE BY E. Pellegrini DATE 5/26/72		CHECKED C. Teschner DATE 5-31-72		SECTION											
ENG <i>R. D. Wick</i> DATE 5-31-72		PROD <i>K. Peters</i> DATE 5/31/72		ISSUED SECT.											
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-HK0BB-A-D	KD11-B PROCESSOR MANUAL				-	-	*	1						
10	DEC-11-H05SS-A-D	PDP-11/05-S. 11/10-S SYSTEMS MANUAL				-	-	*	1						
11	DEC-11-HBKEF-A-D	BA11-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 PDP-11/05 ACCESSORY LIST		ASSY. NO. 11/05-0-0		SIZE CODE A AL		NUMBER 11/05-0-4		REV E		ECO NO 11/05-S 00003					
		SHEET 1 OF 1		DIST											