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FIELD MAINTENANCE PRINT SET

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UNIT VARIATIONS COVERED BY THIS PRINT SET
8A100
8A205
8A405
8A425
8A625

8A FAMILY (SEM I) Field Maintenance Print Set

Digital Equipment Corporation

Print Set Part Number MP-00415

REV. A
NUMBER 8A-1-1
SIZE CODE B TC

REVISION HISTORY	REV. A			DRN. M. P. DUGGAN	DATE 12-MAY-77	TITLE digital 8A SEMICONDUCTOR MEMORY FAMILY
	ECO NUMBER 8A-1-MK02C			CHK'D. L. NARHI	DATE 11-JUL-77	
				DES. ENG. L. NARHI	DATE 11-JUL-77	
				RESP. ENG. L. NARHI	DATE 11-JUL-77	
				FIELD SERVICE B. EASH	DATE 11-JUL-77	
	DATE 4-81			NEXT HIGHER DOC. B-DD-8A-1	DOCUMENT NUMBER SIZE CODE B TC NUMBER 8A-1-1 REV. A	

SHEET 1 OF 2

D-FD-M8315-Ø-24	FLOW DIAGRAM
D-FD-M8315-Ø-25	FLOW DIAGRAM
D-FD-M8315-Ø-26	FLOW DIAGRAM
D-FD-M8315-Ø-27	FLOW DIAGRAM
E-FD-PDP8/E-Ø-Ø6	PROCESSOR FLOW CHART
D-TD-PDP8/E-Ø-Ø5	TIMING (PDP8/E)
E-CS-M83ØØ-Ø-1	MAJOR REGISTERS
E-CS-M831Ø-Ø-1	MAJOR REGISTERS CONTROL
E-CS-M832Ø-Ø-1	BUS LOADS
E-CS-M833Ø-Ø-1	TIMING GENERATOR
A-SP-KM8-A-1	FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
D-CS-M8317-Ø-1	OPTION BOARD #2
D-UA-M8317-Ø-Ø	UNIT ASSY
B-PL-M8317-Ø-Ø	PARTS LIST
D-TD-KM8-A-4	AUTO RESTART/BOOT SEQUENCE
D-TD-KM8-A-5	BOOTSTRAP TIMING
D-FD-KM8-A-6	FLOW CHART OPTION #2
A-SP-KM8-A-7	ROM PROG. INST.
A-SP-DKC8-A-1	FIELD INST. AND ACCEPTANCE PROCEDURE
D-CS-M8316-Ø-1	OPTION BOARD #1
D-UA-M8316-Ø-Ø	UNIT ASSY
B-PL-M8316-Ø-Ø	PARTS LIST
E-UA-KC8-A-Ø	BEZEL ASSY
D-AD-7010644-Ø-Ø	KEYBOARD ASSY
D-CS-5411241-Ø-1	INDICATOR DISPLAY
D-CS-5411316-Ø-1	REGISTERS AND CONTROL
A-SP-KT8-A	FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
D-UA-M8416-Ø-Ø	KT8-A UNIT ASSY
B-PL-M8416-Ø-Ø	PARTS LIST
D-CS-M8416-Ø-1	MEMORY MANAGEMENT OPTION
D-CS-M9Ø2Ø-Ø-1	KT8-A TERMINATOR CARD
A-SP-MS8-C-Ø	FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
D-CS-M8417-Ø-1	PDP-8 MOS MEMORY
D-UA-M8417-Ø-Ø	UNIT ASSY
B-PL-M8417-Ø-Ø	PARTS LIST
A-SP-MR8-F-2	FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
D-CS-M8349-Ø-1	1K PROM
A-SP-MS8-A-1	FIELD INSTALLATION AND ACCEPTANCE PROCEDURE
D-CS-M8311-Ø-1	4K X 12 MOS MEMORY

TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SHEET 2 OF 2	SIZE	CODE	NUMBER	REV.
			B	TC	8A-1-1	A

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DRAWING DIRECTORY

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FOR FIELD MAINTENANCE PRINT SET SEE

B-TC-8A-1-1

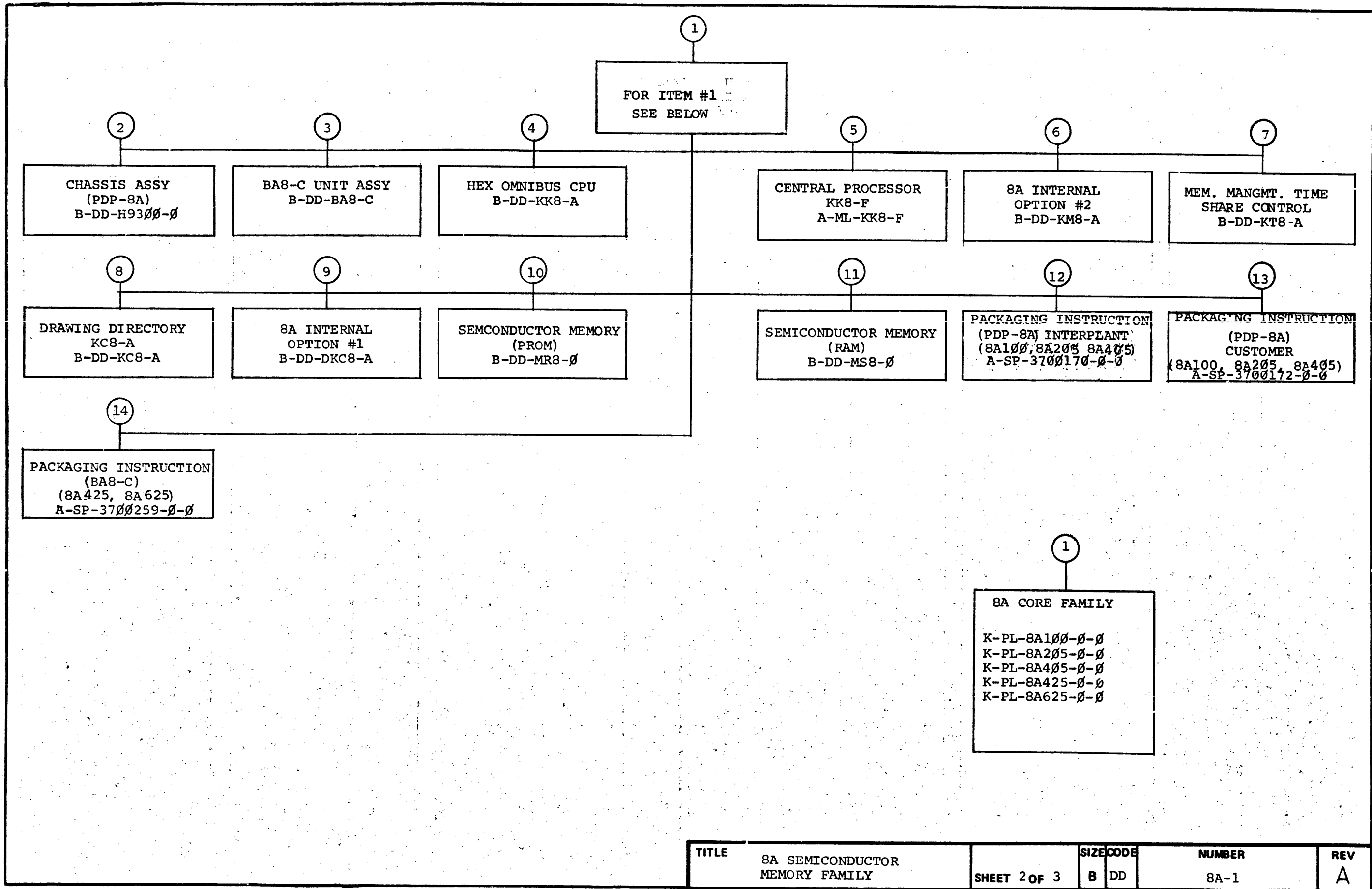
UNIT VARIATIONS

VAR	TITLE
8A100	12 SLOT OMNIBUS W/KK8A CPU
8A205	12 SLOT OMNIBUS W/KK8A CPU OPTION #2 AND G8016 REGULATOR
8A405	12 SLOT OMNIBUS W/KK8A CPU OPTION #2 AND G8018 REGULATOR
8A425	20 SLOT OMNIBUS W/KK8A CPU AND OPTION #2
8A625	20 SLOT OMNIBUS W/KK8-F CPU AND OPTION #2

REVISIONS	REV.	A			
	CHANGE NO.	BA-1-MK02C			
	CHK	<i>[Signature]</i>			
	DRN.	M.P. DUGGAN			
	DATE	12 77 MAY			
	TITLE	8A SEMICONDUCTOR MEMORY FAMILY digital			
	USED ON OPTION/MODEL	CHK'D.	DATE		
	8A100	<i>[Signature]</i>	11- JUL-77		
	8A205				
	8A405	PROJ. ENG.	DATE		
	8A425	<i>[Signature]</i>	11- JUL-77		
	8A625				
	PROB	DATE			
		<i>[Signature]</i>	25-2-77		
SHEET	1 OF 3	SIZE	CODE	NUMBER	REV
		B	DD	8A-1	A
		DIST.			

DRB 106A

MK



TITLE	SIZE	CODE	NUMBER	REV
8A SEMICONDUCTOR MEMORY FAMILY	B	DD	8A-1	A
SHEET 2 OF 3				

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE	FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	MP00415	FIELD MAINTENANCE PRINT SET (MP)	-	9	B-DD-DK8-A	8A INTERNAL OPTION #1	-
	B-TC-8A-1-1	FIELD MAINTENANCE PRINT SET (TC)	-				
	K-PL-8A100-0-0	8A SEMICONDUCTOR MEMORY FAMILY (8A100)	E/M				
	K-PL-8A205-0-0	8A CORE FAMILY (8A205)	E/M				
	K-PL-8A405-0-0	8A CORE FAMILY (8A405)	E/M				
	K-PL-8A425-0-0	8A CORE FAMILY (8A425)	E/M	10	B-DE-MR8-0	SEMICONDUCTOR MEMORY (PROM)	-
	K-PL-8A625-0-0	8A CORE FAMILY (8A625)	E/M				
2	B-DD-H9300	CHASSIS ASSY (PDP-8A)	-				
3	B-DD-BA8-C	BA8-C UNIT ASSY	-	11	B-DD-MS8-0	SEMICONDUCTOR MEMORY (RAM)	-
4	B-DD-KK8-A	HEX OMNIBUS CPU	-	12	A-SP-3700170-0-0	PACKAGING INSTRUCTION, INTERPLANT (PDP-8A)	-
5	A-ML-KK8-F	CENTRAL PROCESSOR KK8-F	-	13	A-SP-3700172-0-0	PACKAGING INSTRUCTION, CUSTOMER (PDP-8A)	-
6	B-DD-KM8-A	8A INTERNAL OPTION #2	-	14	A-SP-3700259-0-0	PACKAGING INSTRUCTION, INTERPLANT W/CONSOLE (BA8-C)	-
7	B-DD-KT3-A	MEM MANAGEMENT AND TIME SHARE CONTROL	-				
8	B-DD-KC8-A	DRAWING DIRECTORY KC8-A	-				

TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE
8A SEMICONDUCTOR MEMORY
FAMILY

SHEET 3 OF 3

SIZE CODE
B DD

NUMBER
8A-1

REV
A

DRB 108A

MK

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
				AA	AB	AC	AD	AE	AF	AK	AL	AM	AN	AP	AR	
1	1	D-UA-H9300-0-0	H9300-AA	CHASSIS ASSY 8/A W FANS 115V 60H	1	0	1	0	1	0	1	0	0	0	0	0
2	2	D-UA-H9300-0-0	H9300-AB	CHASSIS ASSY 8/A W FANS 230V 50H	0	1	0	1	0	1	0	1	0	0	0	0
3	3	D-UA-H9300-0-0	H9300-AC	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	0	0	0	0	0	1	0	1	0
4	4	D-UA-H9300-0-0	H9300-AD	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	0	0	0	0	0	0	1	0	1
5	5	E-UA-BAB-C-0	00BAA-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
6	6	E-UA-BAB-C-0	00BAA-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
7	7	E-UA-BAB-C-0	00BAA-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
8	8	E-UA-BAB-C-0	00BAA-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
9	9	A-PL-KKB-A-0	00KKB-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KKB-F-0	00KKB-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-PL-MSB-C-0	00MSB-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
12	12	A-PL-MSB-C-0	00MSB-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
13	13	A-PL-MSB-A-0	00MSB-AA	PDP8A RAM 1K	0	0	1	1	0	0	0	0	0	0	1	1
14	14	A-PL-MSB-A-0	00MSB-AB	PDP8A RAM 2K	0	0	0	0	1	1	0	0	0	0	0	0
15	15	A-PL-MSB-A-0	00MSB-AD	PDP8A RAM 4K	0	0	0	0	0	0	1	1	0	0	0	0
16	16	C-UA-MRB-F-0	00MRB-FB	1KX12 CONTENT ALTERABLE ROM & 25	0	0	0	0	0	0	0	0	0	0	0	0
17	17	A-PL-KMB-A-0	00KMB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-PL-DKCB-A-0	00DKCB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
19	19	E-UA-KCB-A-0	00KCB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
20	20	D-UA-KTB-A-0	00KTB-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
21	21	A-PL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1	1	1	1	1
23	23	A-SP-3700172-0-0	3700172-00	INSTR PKG COMPUTER PDP8A CUSHION	1	1	1	1	1	1	1	1	1	1	1	1
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
26	26	A-SP-3700259-0-0	3700259-02	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY		BASIC PART NO: 8A100		DRN: M DUGGAN	DATE: 12-MAY-77	DBP	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION A OF B	CHK'D: L NARHI	DATE: 8-NOV-77	TITLE		PARTS LIST					
DF	BA-1-MK002B	B	SECTION. VARIATION INDEX	DES.ENG.: L NARHI	DATE: 8-NOV-77	8A SEMICONDUCTOR MEMORY FAMILY		8A100					
			[A] AA,AB,AC,AD,AE,AF,AK,AL,AM,AN,AP,AR	RESP.ENG.: L NARHI	DATE: 8-NOV-77	DOCUMENT NUMBER							
			[B] AS,AT,AU,AV,FA,FB,FC,FD	MFG.ENG.: J V KANE	DATE: 8-NOV-77	SIZE	CODE	NUMBER	REV				
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	8A100-0-0	B				
			[D]										
			[E]										
			[F]						FILE NAME:	EDIT #			
						#B-DD-8A-1			MK0384.PLS	7			

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MK

PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
					AA	AB	AC	AD	AE	AF	AK	AL	AM	AN	AP	AR	
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
33	33	A-PL-KM8-A-0	00KM8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							8A100			K	PL	8A100-0-0	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION							
					AS	AT	AU	AV	FA	FB	FC	FD
1	1	D-UA-H9300-0-0	H9300-AA	CHASSIS ASSY 8/A W FANS 115V 60H	0	0	0	0	1	0	0	0
2	2	D-UA-H9300-0-0	H9300-AB	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	0	0	1	0	0
3	3	D-UA-H9300-0-0	H9300-AC	CHASSIS ASSY 8/A W FANS 230V 50H	1	0	1	0	0	0	1	0
4	4	D-UA-H9300-0-0	H9300-AD	CHASSIS ASSY 8/A W FANS 230V 50H	0	1	0	1	0	0	0	1
5	5	E-UA-BAB-C-0	00BAB-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
6	6	E-UA-BAB-C-0	00BAB-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
7	7	E-UA-BAB-C-0	00BAB-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
8	8	E-UA-BAB-C-0	00BAB-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
9	9	A-FL-KK8-A-0	00KK8-A	8A-CPU	1	1	1	1	1	1	1	1
10	10	D-UA-KK8-F-0	00KK8-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
11	11	A-PL-MS8-C-0	00MS8-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
12	12	A-PL-MS8-C-0	00MS8-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
13	13	A-PL-MS8-A-0	00MS8-AA	PDP8A RAM 1K	0	0	0	0	0	0	0	0
14	14	A-PL-MS8-A-0	00MS8-AB	PDP8A RAM 2K	1	1	0	0	0	0	0	0
15	15	A-PL-MS8-A-0	00MS8-AD	PDP8A RAM 4K	0	0	1	1	0	0	0	0
16	16	C-UA-MR8-F-0	00MR8-FB	1KX12 CONTENT ALTERABLE ROM 2 25	0	0	0	0	1	1	1	1
17	17	A-PL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
18	18	A-PL-DKC8-A-0	00KC8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
19	19	E-UA-KC8-A-0	00KC8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
20	20	D-UA-KT8-A-0	00KT8-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
21	21	A-PL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1
23	23	A-SP-3700172-0-0	3700172-00	INSTR PKG COMPUTER PDP8A CUSHION	1	1	1	1	1	1	1	1
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
26	26	A-SP-3700259-0-0	3700259-02	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-

REVISION HISTORY			BASIC PART NO: 8A100			DRN: M DUGGAN			DATE: 12-MAY-77			DBP			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION B OF B			CHK'D: L NARHI			DATE: 8-NOV-77			TITLE			PARTS LIST		
DF	8A-1-MK002B	B	SECTION. VARIATION INDEX			DES.ENG.: L NARHI			DATE: 8-NOV-77			8A SEMICONDUCTOR MEMORY FAMILY			BA100		
			[A] AA,AB,AC,AD,AE,AF,AK,AL,AM,AN,AP,AR			RESP.ENG.: L NARHI			DATE: 8-NOV-77			DOCUMENT NUMBER					
			[B] AS,AT,AU,AV,FA,FB,FC,FD			MFG.ENG.: J V KANE			DATE: 8-NOV-77			SIZE			CODE		
			[C] [D] [E] [F]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:			EDIT #		
									#B-DD-8A-1			MK0384.PLS			7		
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION								
				AS	AT	AU	AV	FA	FB	FC	FD	
31	31	A-PL-KMB-A-0	00KMB-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
32	32	A-PL-KMB-A-0	00KMB-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-
33	33	A-PL-KMB-A-0	00KMB-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							8A100			K	PL	8A100-0-0	B

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
				AA	AB	AC	AD	BM	BN	BP	BR	BS	BT	BU	BV	
1	1	D-UA-H9300-0-0	H9300-AA	CHASSIS ASSY 8/A W FANS 115V 60H	1	0	0	0	1	0	1	0	0	0	0	0
2	2	D-UA-H9300-0-0	H9300-AB	CHASSIS ASSY 8/A W FANS 230V 50H	0	1	0	0	0	1	0	1	0	0	0	0
3	3	D-UA-H9300-0-0	H9300-AC	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	1	0	0	0	0	0	1	0	1	0
4	4	D-UA-H9300-0-0	H9300-AD	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	1	0	0	0	0	0	1	0	1
5	5	E-UA-BAB-C-0	00BAB-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
6	6	E-UA-BAB-C-0	00BAB-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
7	7	E-UA-BAB-C-0	00BAB-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
8	8	E-UA-BAB-C-0	00BAB-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
9	9	A-PL-KKB-A-0	00KKB-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KKB-F-0	00KKB-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-PL-MSB-C-0	00MSB-CA	16K 12BIT RAM, 4K CHIPS	0	0	0	0	1	1	0	0	1	1	0	0
12	12	A-PL-MSB-C-0	00MSB-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	0	0	0	0	1	1	0	0	1	1
13	13	A-PL-MSB-A-0	00MSB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-PL-MSB-A-0	00MSB-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-PL-MSB-A-0	00MSB-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MRB-F-0	00MRB-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-PL-KMB-A-0	00KMB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
16	18	A-PL-DKCB-A-0	0DKCB-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	0	0	0	0	0	0	0	0	0	0	0	0
19	19	E-UA-KCB-A-0	00KCB-AA	PROGRAMMER'S CONSOLE	0	0	0	0	0	0	0	0	0	0	0	0
20	20	D-UA-KTB-A-0	00KTB-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
21	21	A-PL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1	1	1	1	1
23	23	A-SP-3700172-0-0	3700172-00	INSTR PKG COMPUTER PDP8A CUSHION	1	1	1	1	1	1	1	1	1	1	1	1
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
26	26	A-SP-3700259-0-0	3700259-02	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY		BASIC PART NO: 8A205		DRN: M DUGGAN	DATE: 12-MAY-77	DBP	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION A OF C	CHK'D: L NARHI	DATE: 8-NOV-77	TITLE	PARTS LIST						
DF	BA-1-MK002B	B	SECTION, VARIATION INDEX	DES.ENG.: L NARHI	DATE: 8-NOV-77	8A SEMICONDUCTOR MEMORY FAMILY							
			[A] AA,AB,AC,AD,BM,BN, BP,BR,BS,BT,BU,BV	RESP.ENG.: L NARHI	DATE: 8-NOV-77	8A205							
			[B] CM,CN,CP,CR,CS,CT, CU,CV,DM,DN,DP,DR			DOCUMENT NUMBER							
			[C] DS,DT,DU,DV			SIZE	CODE	NUMBER	REV				
			[D]	MFG.ENG.: J V KANE	DATE: 8-NOV-77	K	PL	8A205-0-0	B				
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #:						
			[F]		#B-DD-8A-1	MK0385.PLS	5						

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MK

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				CM	CN	CP	CR	CS	CT	CU	CV	DM	DN	DP	DR		
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION B OF C	SIZE	CODE	DOCUMENT NUMBER	REV
							8A205			K	PL	8A205-0-0	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
					DS	DT	DU	DV
1	1	D-UA-H9300-0-0	H9300-AA	CHASSIS ASSY 8/A W FANS 115V 60H	0	0	0	0
2	2	D-UA-H9300-0-0	H9300-AB	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	0
3	3	D-UA-H9300-0-0	H9300-AC	CHASSIS ASSY 8/A W FANS 230V 50H	1	0	1	0
4	4	D-UA-H9300-0-0	H9300-AD	CHASSIS ASSY 8/A W FANS 230V 50H	0	1	0	1
5	5	E-UA-BAB-C-0	00BAB-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-
6	6	E-UA-BAB-C-0	00BAB-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-
7	7	E-UA-BAB-C-0	00BAB-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-
8	8	E-UA-BAB-C-0	00BAB-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-
9	9	A-FL-KK8-A-0	00KK8-A	8A-CPU	1	1	1	1
10	10	D-UA-KK8-F-0	00KK8-F	*** THIS ITEM IS NOT USED ***	-	-	-	-
11	11	A-FL-MS8-C-0	00MS8-CA	16K 12BIT RAM, 4K CHIPS	1	1	0	0
12	12	A-FL-MS8-C-0	00MS8-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	1	1
13	13	A-FL-MS8-A-0	00MS8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-
14	14	A-FL-MS8-A-0	00MS8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-
15	15	A-FL-MS8-A-0	00MS8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-
16	16	C-UA-MR8-F-0	00MR8-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-
17	17	A-FL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-
18	18	A-FL-INK8-A-0	00K8-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	1	1	1	1
19	19	E-UA-KC8-A-0	00KC8-AA	PROGRAMMER'S CONSOLE	1	1	1	1
20	20	D-UA-KT8-A-0	00KT8-A	*** THIS ITEM IS NOT USED ***	-	-	-	-
21	21	A-FL-8A-1-2		SHIPPING LIST	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1
23	23	A-SP-3700172-0-0	3700172-00	INSTR PKG COMPUTER PDP8A CUSHION	1	1	1	1
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-
26	26	A-SP-3700259-0-0	3700259-02	*** THIS ITEM IS NOT USED ***	-	-	-	-
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-

REVISION HISTORY		BASIC PART NO: 8A205		DRN:	M DUGGAN	DATE: 12-MAY-77	DBP	D I G I T A L		
ENG!	ECO NUMBER	REV	SECTION C OF C	CHK'D:	L NARHI	DATE: 8-NOV-77	TITLE	PARTS LIST		
DF	8A-1-MK002B	B	SECTION. VARIATION INDEX							
			[A] AA,AB,AC,AD,BM,BN, BP,BR,BS,BT,BU,BV				8A SEMICONDUCTOR MEMORY FAMILY 8A205			
			[B] CM,CN,CP,CR,CS,CT, CU,CV,DM,DN,DP,DR	DES.ENG.:	L NARHI	DATE: 8-NOV-77				
			[C] DS,DT,DU,DV	RESP.ENG.:	L NARHI	DATE: 8-NOV-77		DOCUMENT NUMBER		
			[D]				SIZE!CODE!	NUMBER	REV	
			[E]	MFG.ENG.:	J V KANE	DATE: 8-NOV-77	K	PL	8A205-0-0	B
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
						#B-DD-8A-1	MK0385.PLS		5	

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				AA	AB	AC	AD	BM	BN	BP	BR	BS	BT	BU	BV		
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION A OF C	SIZE	CODE	DOCUMENT NUMBER	REV
							8A205			K	PL	8A205-0-0	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
					CM	CN	CP	CR	CS	CT	CU	CV	DM	DN	DP	DR	
1	1	D-UA-H9300-0-0	H9300-AA	CHASSIS ASSY 8/A W FANS 115V 60H	1	0	1	0	0	0	0	0	0	1	0	1	0
2	2	D-UA-H9300-0-0	H9300-AB	CHASSIS ASSY 8/A W FANS 230V 50H	0	1	0	1	0	0	0	0	0	0	1	0	1
3	3	D-UA-H9300-0-0	H9300-AC	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	0	1	0	1	0	0	0	0	0	0
4	4	D-UA-H9300-0-0	H9300-AD	CHASSIS ASSY 8/A W FANS 230V 50H	0	0	0	0	0	1	0	1	0	0	0	0	0
5	5	E-UA-BAB-C-0	00BAB-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	E-UA-BAB-C-0	00BAB-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
7	7	E-UA-BAB-C-0	00BAB-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	E-UA-BAB-C-0	00BAB-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9	A-FL-KKB-A-0	00KKB-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KKB-F-0	00KKB-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-FL-MSB-C-0	00MSB-CA	16K 12BIT RAM, 4K CHIPS	1	1	0	0	1	1	0	0	1	1	0	0	0
12	12	A-FL-MSB-C-0	00MSB-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	1	1	0	0	1	1	0	0	1	1	1
13	13	A-FL-MSB-A-0	00MSB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-FL-MSB-A-0	00MSB-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-FL-MSB-A-0	00MSB-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MRB-F-0	00MRB-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-FL-KMB-A-0	00KMB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-FL-DKCB-A-0	00DKCB-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19	E-UA-KCB-A-0	00KCB-AA	PROGRAMMER'S CONSOLE	0	0	0	0	0	0	0	0	0	1	1	1	1
20	20	D-UA-KTB-A-0	00KTB-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
21	21	A-FL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SF-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1	1	1	1	1	1
23	23	A-SF-3700172-0-0	3700172-00	INSTR PKG COMPUTER FDP8A CUSHION	1	1	1	1	1	1	1	1	1	1	1	1	1
24	24	A-SF-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SF-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
26	26	A-SF-3700259-0-0	3700259-02	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY			BASIC PART NO: 8A205			DRN: M DUGGAN			DATE: 12-MAY-77			DBP			D I G I T A L		
ENG	ECD NUMBER	REV	SECTION B OF C			CHK'D: L NARHI			DATE: 8-NOV-77			TITLE			PARTS LIST		
DF	BA-1-MK002B	B	SECTION. VARIATION INDEX			DES.ENG.: L NARHI			DATE: 8-NOV-77			8A SEMICONDUCTOR MEMORY FAMILY			8A205		
			[A] AA,AB,AC,AD,BM,BN, BP,BR,BS,BT,BU,BV			RESP.ENG.: L NARHI			DATE: 8-NOV-77			DOCUMENT NUMBER					
			[B] CM,CN,CP,CR,CS,CT, CU,CV,DM,DN,DP,DR			MFG.ENG.: J V KANE			DATE: 8-NOV-77			SIZE CODE NUMBER			REV		
			[C] DS,DT,DU,DV			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:			EDIT #		
			[D]			#B-DD-8A-1			MK0385.PLS			5					
			[E]														
			[F]														

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
				DS	DT	DU	DV
31	31	A-PL-KMB-A-0	00KMB-AB *** THIS ITEM IS NOT USED ***	-	-	-	-
32	32	A-PL-KMB-A-0	00KMB-AC 8A INTERNAL OPTION 2	1	1	1	1
33	33	A-PL-KMB-A-0	00KMB-AD *** THIS ITEM IS NOT USED ***	-	-	-	-

D	I	G	I	T	A	L	TITLE	SECTION C OF C	SIZE	CODE	DOCUMENT NUMBER	REV
							8A SEMICONDUCTOR MEMORY FAMILY				8A205-0-0	B
							8A205		K	PL		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
					AA	AB	AC	AD	BM	BN	BP	BR	BS	BT	BU	BV	
1	1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	E-UA-BA8-C-0	00BA8-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	E-UA-BA8-C-0	00BA8-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
7	7	E-UA-BA8-C-0	00BA8-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	E-UA-BA8-C-0	00BA8-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9	A-PL-KK8-A-0	00KK8-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KK8-F-0	00KK8-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-PL-MS8-C-0	00MS8-CA	16K 12BIT RAM, 4K CHIPS	0	0	0	0	1	1	0	0	1	1	0	0	0
12	12	A-PL-MS8-C-0	00MS8-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	0	0	0	0	1	1	0	0	1	1	1
13	13	A-PL-MS8-A-0	00MS8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-PL-MS8-A-0	00MS8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-PL-MS8-A-0	00MS8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MR8-F-0	00MR8-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-PL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-PL-DKCB-A-0	00DKCB-AA	OPTION BOARD #1; SLU,XTAL CLOCK,	0	0	0	0	0	0	0	0	0	0	0	0	0
19	19	E-UA-KCB-A-0	00KCB-AA	PROGRAMMER'S CONSOLE	0	0	0	0	0	0	0	0	0	0	0	0	0
20	20	D-UA-KT8-A-0	00KT8-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
21	21	A-PL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SF-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1	1	1	1	1	1
23	23	A-SF-3700172-0-0	3700172-00	INSTR PKG COMPUTER FDP8A CUSHION	1	1	1	1	1	1	1	1	1	1	1	1	1
24	24	A-SF-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SF-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
26	26	A-SF-3700259-0-0	3700259-02	INSTR PKG COMPUTER 8A820	0	0	0	0	0	0	0	0	0	0	0	0	0
27	27	D-UA-H9300-0-0	H9300-BA	CHASSIS ASSY 8/A 8 AMP 115V 60HZ	1	0	0	0	1	0	1	0	0	0	0	0	0
28	28	D-UA-H9300-0-0	H9300-BB	CHASSIS ASSY 8/A 4 AMP 230V 50HZ	0	1	0	0	0	1	0	1	0	0	0	0	0
29	29	D-UA-H9300-0-0	H9300-BH	H9300-AB EXCEPT G8018 230V 60HZ	0	0	1	0	0	0	0	0	1	0	1	0	0
30	30	D-UA-H9300-0-0	H9300-BJ	H9300-AA EXCEPT G8018 115V 50HZ	0	0	0	1	0	0	0	0	0	1	0	1	1

REVISION HISTORY			BASIC PART NO: 8A405		DRN:	M DUGGAN	DATE: 12-MAY-77	DBP	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION A	OF C	CHK'D:	L NARHI	DATE: 8-NOV-77	TITLE	PARTS LIST						
DF	8A-1-MK002B	B	SECTION. VARIATION INDEX			DES.ENG.:	L NARHI	DATE: 8-NOV-77	8A SEMICONDUCTOR MEMORY FAMILY						
			[A]	AA,AB,AC,AD,BM,BN, BP, BR, BS, BT, BU, BV	RESP.ENG.:	L NARHI	DATE: 8-NOV-77	8A405							
			[B]	CM,CN,CP,CR,CS,CT, CU,CV,DM, DN, DP, DR				DOCUMENT NUMBER							
			[C]	DS,DT,DU,DV,LM, LN, LP,LR,LS,LT,LU,LV				SIZE	CODE	NUMBER	REV				
			[D]		MFG.ENG.:	J V KANE	DATE: 8-NOV-77	K	PL	8A405-0-0	B				
			[E]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:			EDIT #				
			[F]				#B-DD-8A-1	MK0386.PLS			4				

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MK

P A R T S L I S T

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
				AA	AB	AC	AD	BM	BN	BP	BR	BS	BT	BU	BV	
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	KM8-AC W NO BOOTSTRAP ROMS	0	0	0	0	0	0	0	0	0	0	0	0

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION A OF C	SIZE	CODE	DOCUMENT NUMBER	REV
							8A405			K	PL	8A405-0-0	B

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION														
				CM	CN	CP	CR	CS	CT	CU	CV	DM	DN	DP	DR			
1	1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	E-UA-BA8-C-0	00BA8-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	E-UA-BA8-C-0	00BA8-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	7	E-UA-BA8-C-0	00BA8-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	E-UA-BA8-C-0	00BA8-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9	A-PL-KK8-A-0	00KK8-A	BA-CPU	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KK8-F-0	00KK8-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-PL-MS8-C-0	00MS8-CA	16K 12BIT RAM, 4K CHIPS	1	1	0	0	1	1	0	0	1	1	0	0	0	0
12	12	A-PL-MS8-C-0	00MS8-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	1	1	0	0	1	1	0	0	1	1	1	1
13	13	A-PL-MS8-A-0	00MS8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-PL-MS8-A-0	00MS8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-PL-MS8-A-0	00MS8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MR8-F-0	00MR8-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-PL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-PL-DK8-A-0	00DK8-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19	E-UA-KC8-A-0	00KC8-AA	PROGRAMMER'S CONSOLE	0	0	0	0	0	0	0	0	0	1	1	1	1	1
20	20	D-UA-KT8-A-0	00KT8-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	21	A-PL-BA-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	23	A-SP-3700172-0-0	3700172-00	INSTR PKG COMPUTER PDP8A CUSHION	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	26	A-SP-3700259-0-0	3700259-02	INSTR PKG COMPUTER 8A820	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	27	D-UA-H9300-0-0	H9300-BA	CHASSIS ASSY 8/A 3 AMP 115V 60HZ	1	0	1	0	0	0	0	0	1	0	1	0	0	0
28	28	D-UA-H9300-0-0	H9300-BB	CHASSIS ASSY 8/A 4 AMP 230V 50HZ	0	1	0	1	0	0	0	0	0	1	0	0	1	0
29	29	D-UA-H9300-0-0	H9300-BH	H9300-AB EXCEPT G8018 230V 60HZ	0	0	0	0	1	0	1	0	0	0	0	0	0	0
30	30	D-UA-H9300-0-0	H9300-BJ	H9300-AA EXCEPT G8018 115V 50HZ	0	0	0	0	0	1	0	1	0	0	0	0	0	0

REVISION HISTORY			BASIC PART NO: 8A405		DRN: M DUGGAN		DATE: 12-MAY-77		DBP D I G I T A L			
ENG	ECD NUMBER	REV	SECTION B OF C	CHK'D:		DATE:		TITLE	PARTS LIST			
DF	BA-1-MK002B	B	SECTION. VARIATION INDEX	L NARHI		8-NOV-77		8A SEMICONDUCTOR MEMORY FAMILY	8A405			
			[A] AA,AB,AC,AD,BM,BN, BP, BR, BS, BT, BU, BV	DES.ENG.:	L NARHI	8-NOV-77		DOCUMENT NUMBER				
			[B] CM,CN,CP,CR,CS,CT, CU,CV,DM,DN,DP,DR	RESP.ENG.:	L NARHI	8-NOV-77		SIZE	CODE	NUMBER	REV	
			[C] DS,DT,DU,DV,LM,LN, LP,LR,LS,LT,LU,LV	MFG.ENG.:	J V KANE	8-NOV-77		K	PL	8A405-0-0	B	
			[D]	ASSEMBLY NUMBER:				TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
			[E]					#B-DD-8A-1		MK0386.PLS		4
			[F]									

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PARTS LIST

SHEET B2 OF B2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				CM	CN	CP	CR	CS	CT	CU	CV	DM	DN	DP	DR		
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	KM8-AC W NO BOOTSTRAP ROMS	0	0	0	0	0	0	0	0	0	0	0	0	0

D	I	G	I	T	A	L	TITLE	SECTION B	OF C	SIZE	CODE	DOCUMENT NUMBER	REV
							8A SEMICONDUCTOR MEMORY FAMILY					8A405-0-0	B
							8A405			K	FL		

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				DS	DT	DU	DV	LM	LN	LP	LR	LS	LT	LU	LV		
1	1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	E-UA-BAB-C-0	00BAB-CA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
6	6	E-UA-BAB-C-0	00BAB-CB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
7	7	E-UA-BAB-C-0	00BAB-CH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	E-UA-BAB-C-0	00BAB-CJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9	A-FL-KKB-A-0	00KKB-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KKB-F-0	00KKB-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-FL-MSB-C-0	00MSB-CA	16K 12BIT RAM, 4K CHIPS	1	1	0	0	1	1	0	0	1	1	0	0	0
12	12	A-FL-MSB-C-0	00MSB-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	1	1	0	0	1	1	0	0	1	1	1
13	13	A-FL-MSB-A-0	00MSB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-FL-MSB-A-0	00MSB-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-FL-MSB-A-0	00MSB-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MRB-F-0	00MRB-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-FL-KMB-A-0	00KMB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-FL-DKCB-A-0	00DKCB-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19	E-UA-KCB-A-0	00KCB-AA	PROGRAMMER'S CONSOLE	1	1	1	1	0	0	0	0	0	0	0	0	0
20	20	D-UA-KTB-A-0	00KTB-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
21	21	A-FL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	INSTR PKG COMPUTER 8A400,600,800	1	1	1	1	1	1	1	1	1	1	1	1	1
23	23	A-SP-3700172-0-0	3700172-00	INSTR PKG COMPUTER FDP8A CUSHION	1	1	1	1	1	1	1	1	1	1	1	1	1
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
26	26	A-SP-3700259-0-0	3700259-02	INSTR PKG COMPUTER 8A820	0	0	0	0	0	0	0	0	0	0	0	0	0
27	27	D-UA-H9300-0-0	H9300-BA	CHASSIS ASSY 8/A 8 AMP 115V 60HZ	0	0	0	0	1	0	1	0	0	0	0	0	0
28	28	D-UA-H9300-0-0	H9300-BB	CHASSIS ASSY 8/A 4 AMP 230V 50HZ	0	0	0	0	0	1	0	1	0	0	0	0	0
29	29	D-UA-H9300-0-0	H9300-BH	H9300-AB EXCEPT G8018 230V 60HZ	1	0	1	0	0	0	0	0	1	0	1	0	0
30	30	D-UA-H9300-0-0	H9300-BJ	H9300-AA EXCEPT G8018 115V 50HZ	0	1	0	1	0	0	0	0	0	1	0	1	1

REVISION HISTORY			BASIC PART NO: 8A405			DRN: M DUGGAN			DATE: 12-MAY-77			DBP			DIGITAL		
ENG	ECO NUMBER	REV	SECTION C OF C	CHK'D:	L NARHI	DATE:	8-NOV-77	TITLE			PARTS LIST						
DF	8A-1-MK002B	B	SECTION, VARIATION INDEX	DES.ENG.:	L NARHI	DATE:	8-NOV-77	8A SEMICONDUCTOR MEMORY FAMILY			8A405						
			[A] AA,AB,AC,AD,BM,BN, BP, BR, BS, BT, BU, BV	RESP.ENG.:	L NARHI	DATE:	8-NOV-77	DOCUMENT NUMBER									
			[B] CM,CN,CP,CR,CS,CT, CU,CV,DM, DN, DP, DR	MFG.ENG.:	J V KANE	DATE:	8-NOV-77	K	PL	8A405-0-0	B						
			[C] DS,DT,DU,DV,LM, LN, LP,LR,LS,LT,LU,LV	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	#B-DD-8A-1	FILE NAME:	MK0386.PLS	EDIT #:	4						
			[D]														
			[E]														
			[F]														

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
				IS	DT	DU	DV	LM	LN	LP	LR	LS	LT	LU	LV	
31	31	A-PL-KMB-A-0	00KMB-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KMB-A-0	00KMB-AC	8A INTERNAL OPTION 2	1	1	1	1	0	0	0	0	0	0	0	0
33	33	A-PL-KMB-A-0	00KMB-AD	KMB-AC W NO BOOTSTRAP ROMS	0	0	0	0	1	1	1	1	1	1	1	1

D	I	G	I	T	A	L	TITLE	SECTION C	OF C	SIZE	CODE	DOCUMENT NUMBER	REV
							8A SEMICONDUCTOR MEMORY FAMILY						
							8A405						
										K	PL	BA405-0-0	B

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				AA	AB	AC	AD	BH	BJ	BK	BL	BM	BN	BP	BR		
1	1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	E-UA-BAB-C-0	00BAB-CA	20-SLOT OMNIBUS,10.5 X 21",2 G80	1	0	0	0	1	0	0	0	1	0	1	0	0
6	6	E-UA-BAB-C-0	00BAB-CB	20-SLOT OMNIBUS,10.5 X 21",2 G80	0	1	0	0	0	1	0	0	0	0	1	0	1
7	7	E-UA-BAB-C-0	00BAB-CH	SAME AS BAB-CB EXCEPT 240V 60HZ	0	0	1	0	0	0	1	0	0	0	0	0	0
8	8	E-UA-BAB-C-0	00BAB-CJ	SAME AS BAB-CA EXCEPT 120V 50HZ	0	0	0	1	0	0	0	1	0	0	0	0	0
9	9	A-PL-KKB-A-0	0CKKB-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KKB-F-0	00KKB-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-PL-MSS-C-0	00MSS-CA	16K 12BIT RAM, 4K CHIPS	0	0	0	0	1	1	1	1	0	0	0	0	0
12	12	A-PL-MSS-C-0	00MSS-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	0	0	0	0	0	0	1	1	2	2	2
13	13	A-PL-MSS-A-0	00MSS-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-PL-MSS-A-0	00MSS-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-PL-MSS-A-0	00MSS-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MRB-F-0	00MRB-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-PL-KMB-A-0	00KMB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-PL-DKC8-A-0	00DKC8-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	0	0	0	0	0	0	0	0	0	0	0	0	0
19	19	E-UA-KCB-A-0	00KCB-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
20	20	D-UA-KTB-A-0	00KTB-A	MEM MAN OPTION FOR KTB-A SYS	0	0	0	0	0	0	0	0	0	0	1	1	1
21	21	A-PL-BA-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
23	23	A-SP-3700172-0-0	3700172-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	INSTR PKG BAB-C CHASSIS ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1
26	26	A-SP-3700259-0-0	3700259-02	INSTR PKG COMPUTER 8A820	1	1	1	1	1	1	1	1	1	1	1	1	1
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY		BASIC PART NO: 8A425		DRN: M DUGGAN	DATE: 12-MAY-77	DBP		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF B	CHK'D: L NARHI	DATE: 8-NOV-77	TITLE		PARTS LIST			
DF	8A-1-MK002B	B	SECTION. VARIATION INDEX	DES.ENG.: L NARHI	DATE: 8 NOV-77	8A SEMICONDUCTOR MEMORY FAMILY		8A425			
			[A] AA,AB,AC,AD,BH,BJ, BK,BL,BM,BN,BP,BR	RESP.ENG.: L NARHI	DATE: 8-NOV-77	DOCUMENT NUMBER					
			[B] BS,BT,BU,BV,CM,CN, CP,CR,CS,CT,CU,CV	MFG.ENG.: J V KANE	DATE: 8-NOV-77	SIZE	CODE	NUMBER	REV		
			[C] [D] [E] [F]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	8A425-0-0	B		
					#B-DD-8A-1	FILE NAME:		MK0387.PLS		EDIT #	
										4	

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PARTS LIST

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
				AA	AB	AC	AD	BH	BJ	BK	BL	BM	BN	BP	BR	
31	31	A-PL-KMS-A-0	00KMS-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KMS-A-0	00KMS-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KMS-A-0	00KMS-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							8A425			K	PL	8A425-0-0	B

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION																		
					BS	BT	BU	BV	CM	CN	CP	CR	CS	CT	CU	CV							
1	1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	E-UA-BAB-C-0	00BAB-CA	20-SLOT OMNIBUS,10.5 X 21",2 G80	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
6	6	E-UA-BAB-C-0	00BAB-CB	20-SLOT OMNIBUS,10.5 X 21",2 G80	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
7	7	E-UA-BAB-C-0	00BAB-CH	SAME AS BAB-CB EXCEPT 240V 60HZ	1	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1
8	8	E-UA-BAB-C-0	00BAB-CJ	SAME AS BAB-CA EXCEPT 120V 50HZ	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0
9	9	A-PL-KK8-A-0	00KK8-A	8A-CPU	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	10	D-UA-KK8-F-0	00KK8-F	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	11	A-PL-MS8-C-0	00MS8-CA	16K 12BIT RAM, 4K CHIPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	12	A-PL-MS8-C-0	00MS8-CB	32K 12 BIT MOS RAM 4K CHIPS	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2
13	13	A-PL-MS8-A-0	00MS8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-PL-MS8-A-0	00MS8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-PL-MS8-A-0	00MS8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MR8-F-0	00MR8-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-PL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-PL-DK8-A-0	00DK8-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	19	E-UA-KC8-A-0	00KC8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	20	D-UA-KT8-A-0	00KT8-A	MEM MAN OPTION FOR KT8-A SYS	0	0	1	1	0	0	1	1	0	0	1	0	0	1	1	1	1	1	1
21	21	A-PL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	23	A-SP-3700172-0-0	3700172-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	INSTR PKG BAB-C CHASSIS ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	26	A-SP-3700259-0-0	3700259-02	INSTR PKG COMPUTER 8A820	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY		BASIC PART NO: 8A425		DRN: M DUGGAN	DATE: 12-MAY-77	DBP	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION B OF B	CHK'D: L NARHI	DATE: 8-NOV-77	TITLE PARTS LIST							
DF	8A-1-MK002B	B	SECTION, VARIATION INDEX	DES.ENG.: L NARHI	DATE: 8 NOV-77	8A SEMICONDUCTOR MEMORY FAMILY 8A425							
			[A] AA,AB,AC,AD,BH,BJ, BK,BL,BM,BN,BP,BR	RESP.ENG.: L NARHI	DATE: 8-NOV-77	DOCUMENT NUMBER							
			[B] BS,BT,BU,BV,CM,CN, CP,CR,CS,CT,CU,CV	MFG.ENG.: J V KANE	DATE: 8-NOV-77	SIZE	CODE	NUMBER	REV				
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	8A425-0-0	B	FILE NAME:	EDIT #:		
			[D]		#B-DD-8A-1			MK0387.PLS	4				
			[E]										
			[F]										

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P A R T S L I S T

SHEET B2 OF B2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION											
					BS	BT	BU	BV	CM	CN	CP	CR	CS	CT	CU	CV
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							8A425			K	PL	8A425-0-0	B

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				AA	AB	AC	AD	BH	BJ	BK	BL	BM	BN	BP	BR		
1	1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
2	2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
3	3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
5	5	E-UA-BAB-C-0	00BAB-CA	20-SLOT OMNIBUS,10.5 X 21",2 G80	1	0	0	0	1	0	0	0	1	0	1	0	0
6	6	E-UA-BAB-C-0	00BAB-CB	20-SLOT OMNIBUS,10.5 X 21",2 G80	0	1	0	0	0	1	0	0	0	1	0	1	0
7	7	E-UA-BAB-C-0	00BAB-CH	SAME AS BAB-CB EXCEPT 240V 60HZ	0	0	1	0	0	0	1	0	0	0	0	0	0
8	8	E-UA-BAB-C-0	00BAB-CJ	SAME AS BAB-CA EXCEPT 120V 50HZ	0	0	0	1	0	0	0	1	0	0	0	0	0
9	9	A-PL-KK8-A-0	00KK8-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10	D-UA-KK8-F-0	00KK8-F	CENTRAL PROCESSOR [8E]	1	1	1	1	1	1	1	1	1	1	1	1	1
11	11	A-PL-MS8-C-0	00MS8-CA	16K 12BIT RAM, 4K CHIPS	0	0	0	0	1	1	1	1	0	0	0	0	0
12	12	A-PL-MS8-C-0	00MS8-CB	32K 12 BIT MOS RAM 4K CHIPS	0	0	0	0	0	0	0	0	1	1	2	2	2
13	13	A-PL-MS8-A-0	00MS8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14	14	A-PL-MS8-A-0	00MS8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
15	15	A-PL-MS8-A-0	00MS8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	C-UA-MR8-F-0	00MR8-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	A-PL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18	18	A-PL-DK8-A-0	00DK8-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	0	0	0	0	0	0	0	0	0	0	0	0	0
19	19	E-UA-KC8-A-0	00KC8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
20	20	D-UA-KT8-A-0	00KT8-A	MEM MAN OPTION FOR KT8-A SYS	0	0	0	0	0	0	0	0	0	0	1	1	1
21	21	A-PL-8A-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1
22	22	A-SP-3700170-0-0	3700170-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
23	23	A-SP-3700172-0-0	3700172-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
24	24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
25	25	A-SP-3700259-0-0	3700259-01	INSTR PKG BA8-C CHASSIS ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1
26	26	A-SP-3700259-0-0	3700259-02	INSTR PKG COMPUTER BA820	1	1	1	1	1	1	1	1	1	1	1	1	1
27	27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
28	28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
29	29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
30	30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY		BASIC PART NO: 8A625		DRN: M DUGGAN	DATE: 12-MAY-77	DBP	D	I	G	I	T	A	L
ENG	ECO NUMBER	REV	SECTION A OF B	CHK'D: L NARHI	DATE: 8-NOV-77	TITLE PARTS LIST							
DF	8A-1-MK002B	B	SECTION, VARIATION INDEX	DES.ENG.: L NARHI	DATE: 8 NOV-77	8A SEMICONDUCTOR MEMORY FAMILY							
			[A] AA,AB,AC,AD,BH,BJ, BK,BL,BM,BN,BP,BR	RESP.ENG.: L NARHI	DATE: 8-NOV-77	8A625							
			[B] BS,BT,BU,BV,CM,CN, CP,CR,CS,CT,CU,CV			DOCUMENT NUMBER							
			[C]			SIZE CODE NUMBER REV							
			[D]	MFG.ENG.: J V KANE	DATE: 8-NOV-77	K	PL	8A625-0-0				B	
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:				EDIT #:			
			[F]		#B-DD-8A-1	MK0388.PLS				6			

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MK

AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
					AA	AB	AC	AD	BH	BJ	BK	BL	BM	BN	BP	BR	
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							8A625			K	PL	8A625-0-0	B

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION												
				BS	BT	BU	BV	CM	CN	CP	CR	CS	CT	CU	CV	
1	D-UA-H9300-0-0	H9300-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
2	D-UA-H9300-0-0	H9300-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
3	D-UA-H9300-0-0	H9300-AC	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4	D-UA-H9300-0-0	H9300-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
5	E-UA-BAB-C-0	00BAB-CA	20-SLOT OMNIBUS,10.5 X 21",2 GB0	0	0	0	0	1	0	1	0	0	0	0	0	0
6	E-UA-BAB-C-0	00BAB-CB	20-SLOT OMNIBUS,10.5 X 21",2 GB0	0	0	0	0	0	0	1	0	1	0	0	0	0
7	E-UA-BAB-C-0	00BAB-CH	SAME AS BAB-CB EXCEPT 240V 60HZ	1	0	1	0	0	0	0	0	0	1	0	1	0
8	E-UA-BAB-C-0	00BAB-CJ	SAME AS BAB-CA EXCEPT 120V 50HZ	0	1	0	1	0	0	0	0	0	0	1	0	1
9	A-FL-KK8-A-0	00KK8-A	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
10	D-UA-KK8-F-0	00KK8-F	CENTRAL PROCESSOR [8E]	1	1	1	1	1	1	1	1	1	1	1	1	1
11	A-FL-MS8-C-0	00MS8-CA	16K 12BIT RAM, 4K CHIPS	0	0	0	0	0	0	0	0	0	0	0	0	0
12	A-FL-MS8-C-0	00MS8-CB	32K 12 BIT MOS RAM 4K CHIPS	1	1	2	2	1	1	2	2	1	1	2	2	2
13	A-FL-MS8-A-0	00MS8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
14	A-FL-MS8-A-0	00MS8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
15	A-FL-MS8-A-0	00MS8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	C-UA-MR8-F-0	00MR8-FB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	A-FL-KM8-A-0	00KM8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
18	A-FL-DKC8-A-0	00KC8-AA	OPTION BOARD #1: SLU,XTAL CLOCK,	0	0	0	0	1	1	1	1	1	1	1	1	1
19	E-UA-KC8-A-0	00KC8-AA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
20	D-UA-KT8-A-0	00KT8-A	MEM MAN OPTION FOR KT8-A SYS	0	0	1	1	0	0	1	1	0	0	1	1	1
21	A-FL-BA-1-2		SHIPPING LIST	1	1	1	1	1	1	1	1	1	1	1	1	1
22	A-SP-3700170-0-0	3700170-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
23	A-SP-3700172-0-0	3700172-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
24	A-SP-3700259-0-0	3700259-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
25	A-SP-3700259-0-0	3700259-01	INSTR PKG BAB-C CHASSIS ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1
26	A-SP-3700259-0-0	3700259-02	INSTR PKG COMPUTER 8A820	1	1	1	1	1	1	1	1	1	1	1	1	1
27	D-UA-H9300-0-0	H9300-BA	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
28	D-UA-H9300-0-0	H9300-BB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
29	D-UA-H9300-0-0	H9300-BH	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
30	D-UA-H9300-0-0	H9300-BJ	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

REVISION HISTORY			BASIC PART NO: 8A625			DRN: M DUGGAN			DATE: 12-MAY-77			DBP			DIGITAL		
ENG	ECO NUMBER	REV	SECTION B OF B	CHK'D:	L NARHI	DATE:	8-NOV-77	TITLE			PARTS LIST						
DF	8A-1-MK002B	B	SECTION, VARIATION INDEX	DES.ENG.:	L NARHI	DATE:	8 NOV-77	8A SEMICONDUCTOR MEMORY FAMILY			8A625						
			[A] AA,AB,AC,AD,BH,BJ, BK,BL,BM,BN,BP,BR	RESP.ENG.:	L NARHI	DATE:	8-NOV-77	DOCUMENT NUMBER									
			[B] BS,BT,BU,BV,CM,CN, CP,CR,CS,CT,CU,CV	MFG.ENG.:	J V KANE	DATE:	8-NOV-77	SIZE	CODE	NUMBER	REV						
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	8A625-0-0	B						
			[D]			FILE NAME:				MK0388.PLS	6						
			[E]			EDIT #:											
			[F]														

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AUTOMATED BY PRTLST.3P(44)

PARTS LIST

SHEET B2 OF B2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				BS	BT	BU	BV	CM	CN	CP	CR	CS	CT	CU	CV		
31	31	A-PL-KM8-A-0	00KM8-AB	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32	A-PL-KM8-A-0	00KM8-AC	8A INTERNAL OPTION 2	1	1	1	1	1	1	1	1	1	1	1	1	1
33	33	A-PL-KM8-A-0	00KM8-AD	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	8A SEMICONDUCTOR MEMORY FAMILY	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							8A625			K	PL	8A625-0-0	B

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY VARIATION																		
MADE BY M. DUGGAN		CHECKED <i>Larry Macle</i>		SECTION																			
DATE 12 MAY 77		DATE 11-JUL-77																					
ENG <i>Larry Macle</i>		PROD <i>Jim Kane 25 OCT 77</i>		ISSUED SECT.																			
DATE 11-JUL-77		DATE																					
ITEM NO.	DWG NO./PART NO.	DESCRIPTION																					
1	EK-8A002-OP	PDP-8A OPERATOR'S HANDBOOK																					
2	MP00415	8A SEMICONDUCTOR FAMILY MAINTENANCE PRINT SET																					
3	A-PL-8A-1-3	8A SEMICONDUCTOR FAMILY SOFTWARE LIST																					
4	EK-8A002-MM	PDP-8A USER'S MANUAL																					
5	EK-H9300-IP	H9300 ILLUSTRATED PARTS BREAKDOWN																					
6	EK-BA8C-IP	BA8-C ILLUSTRATED PARTS BREAKDOWN																					
7	EK-KC8A-IP	KC8-A ILLUSTRATED PARTS BREAKDOWN																					
TITLE SHIPPING LIST 8A SEMICONDUCTOR MEMORY FAMILY (8A100, 8A205, 8A405, 8A425, 8A625)					ASSY NO. C-PL-8A-1-0					SIZE A PL		NUMBER 8A-1-2					REV		ECO NO.				
					SHEET 1 OF 1					DIST													

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST				QUANTITY / VARIATION											
MADE BY	M. DUGGAN	CHECKED	L. NARHI	SECTION											
DATE	12-MAY-77	DATE	11-JUL-77	SECTION	1										
ENG	LARRY. NARHI	PROD	J. KANE	ISSUED SECT.											
DATE	11-JUL-77	DATE	25-OCT-77												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION			8A100	8A205	8A405	8A425	8A625						
1	ZF006-RB	4K BASIC SOFTWARE			Ø	1	1	1	1						
2	ZF209-RB	4K OPTION #2 SOFTWARE			Ø	1	1	1	1						
3	ZF208-RB	4K OPTION #1 SOFTWARE			Ø	1	1	1	1						
4	ZF235-RB	MEMORY MANAGEMENT OPTION SOFTWARE			Ø	Ø	Ø	1	1						
TITLE SOFTWARE LIST 8A SEMICONDUCTOR MEMORY FAMILY (8A100,8A205,8A405,8A425,8A625)				ASSY NO. B-DD-8A-1	SIZE A	CODE PL	NUMBER 8A-1-3		REV. A	ECO NO. 8A-1 <i>m2001</i>					
SHEET 1 OF 1				DIST.											

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

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
ENGINEERING SPECIFICATION		
TITLE BA100,205,405,425,625 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE		DATE 26-apr-77
REV		REVISIONS
CHG NO	DESCRIPTION	CHG NO ORIG DATE APPD BY DATE

ENG DEC 15 1977 101744971 DRA 108	APPD <i>L.L. Ashby</i> 11-30-77	SIZE CODE A SP	NUMBER 8A-1-4	REV 1 OF 5
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ENGINEERING SPECIFICATION		
TITLE BA100,205,405,425,625 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE		
I. GENERAL II. UNPACKING III. INSPECTION IV. INSTALLATION PROCEDURE V. ACCEPTANCE PROCEDURE		
SIZE CODE A SP	NUMBER 8A-1-4	REV 2 OF 6

DEC FORM NO EN-01022-14-N374(181)
DRA 108

ENGINEERING SPECIFICATION		
TITLE BA100,205,405,425,625 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE		
I. GENERAL Installation of the basic 8A100,205,405,425 and 625 computer requires no special tools or equipment. Normal hand tools are all that are required.		
II. UNPACKING Unpack and inspect the equipment using the procedure provided in the Operator's Handbook.		
III. INSPECTION After removing the equipment packing material, inspect the equipment. 1. Inspect the external surface of the chassis for surface, bezel, switch and light damage. 2. Internally inspect the 8A enclosure and console for damage, loose nuts, bolts, screws, etc. 3. Inventory all hardware against shipping list. 4. Inventory all software against software list, if ordered. 5. Inventory all prints against shipping list if ordered.		
IV. INSTALLATION PROCEDURE Install the equipment using the following procedure: 1. Turn off the power switch of the Limited Function Console. <p style="text-align: center;">WARNING DO NOT TOUCH THE COMPUTER AFTER PLUGGING IT IN UNTIL IT IS CHECKED FOR THE PROPER GROUNDING.</p> 2. Insure that all power is received from the same source. 3. Plug in the power cord.		
SIZE CODE A SP	NUMBER 8A-1-4	REV 3 OF 6

DEC FORM NO EN-01022-14-N374(181)
DRA 108

ENGINEERING SPECIFICATION		
TITLE BA100,205,405,425,625 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE		
4. Before touching the computer, check frame to ground to insure that no AC voltage is present.		
5. Unplug power cord.		
6. Turn "on" Power ON/OFF switch and set regulator circuit breaker to the "ON" position. (Behind the Limited Function Console on the 8A100, 8A205, and 8A405 or inside the rear panel on the 8A625 and 8A625.)		
7. Repeat Steps 3 and 4.		
8. Power should now be applied to the 8A; fans should be running, and the power light on the Limited Function Console should be "ON". The light labeled 'battery charging' should be illuminated on the 8A205 and 8A405 indicating that DC power is okay.		
If none of the above occur, remove the Limited Function panel and check the Master/Slave switch located below the ON/OFF switch on the Limited Function Board.		
9. The Run light should not be on. If it is, switch Power Off via the ON/OFF switch. Remove the M8315 CPU module (on all except 8A625) and set switches as indicated below. Then insert CPU in the first slot in the OMNIBUS and turn power back on. The Run light should remain off.		
SI-1 thru SI-6, SI-8 set to "OFF" position. SI-7 set to "ON" position.		
10. Check modules to insure they are located in their proper position in the OMNIBUS. Refer to the Operator's Handbook.		
11. Check the operation of the Programmer's Console.		
12. Manually load, deposit and examine to insure that memory modules are associated with the correct memory fields. If not, turn the unit off and reconfigure the memory modules to the correct fields.		
SIZE CODE A SP	NUMBER 8A-1-4	REV 4 OF 6

DEC FORM NO EN-01022-14-N374(181)
DRA 108

TITLE 8A100,205,405,425,625 FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

V. ACCEPTANCE PROCEDURE

Perform the acceptance tests referred to in table A. If abnormal indications are encountered, refer to the diagnostic listings for error descriptions. Refer to the operators handbook and the diagnostic listings for instructions on loading diagnostics.

Equipment required

1. 8A100,205,405,425,625 with 1-32K of semiconductor memory.
2. Programmer's Console (KC8A and DKC8A)
3. Paper tape input device.
4. Diagnostics and listings.

NOTE: If programmer's panel and paper tape input device are not available as part of the system being installed, they must be provided by the customer in good working order. If semiconductor memory is 1K PROM only, refer to the MR8-F Engineering Spec.

Table A

Acceptance 8A100,205,405,425,625

<u>Program Name</u>	<u>MAINDEC #</u>	<u>Accept Time</u>
PDP8A Central Processor Test	08-DJKKA	20 Minutes
1-32K Random Exerciser	08-DJEXA	20 Minutes
MS8-A or MS8-C/D MOS Memory	Refer to Acceptance Procedure for MS8-C/D and MS8-A.	
KT8-A Memory Management Option	Refer to Acceptance Procedure for KT8-A.	

SIZE A	CODE Sp	NUMBER 8A-1-4	REV
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TITLE 8A100,205,405,425,625 FIELD INSTALLATION ACCEPTANCE PROCEDURE

DKC8A Option One Refer to Acceptance Procedure for DKC8A.

KM8A Option Two Refer to Acceptance Procedure for KM8A.

SIZE A	CODE SP	NUMBER -8A-1-4	REV
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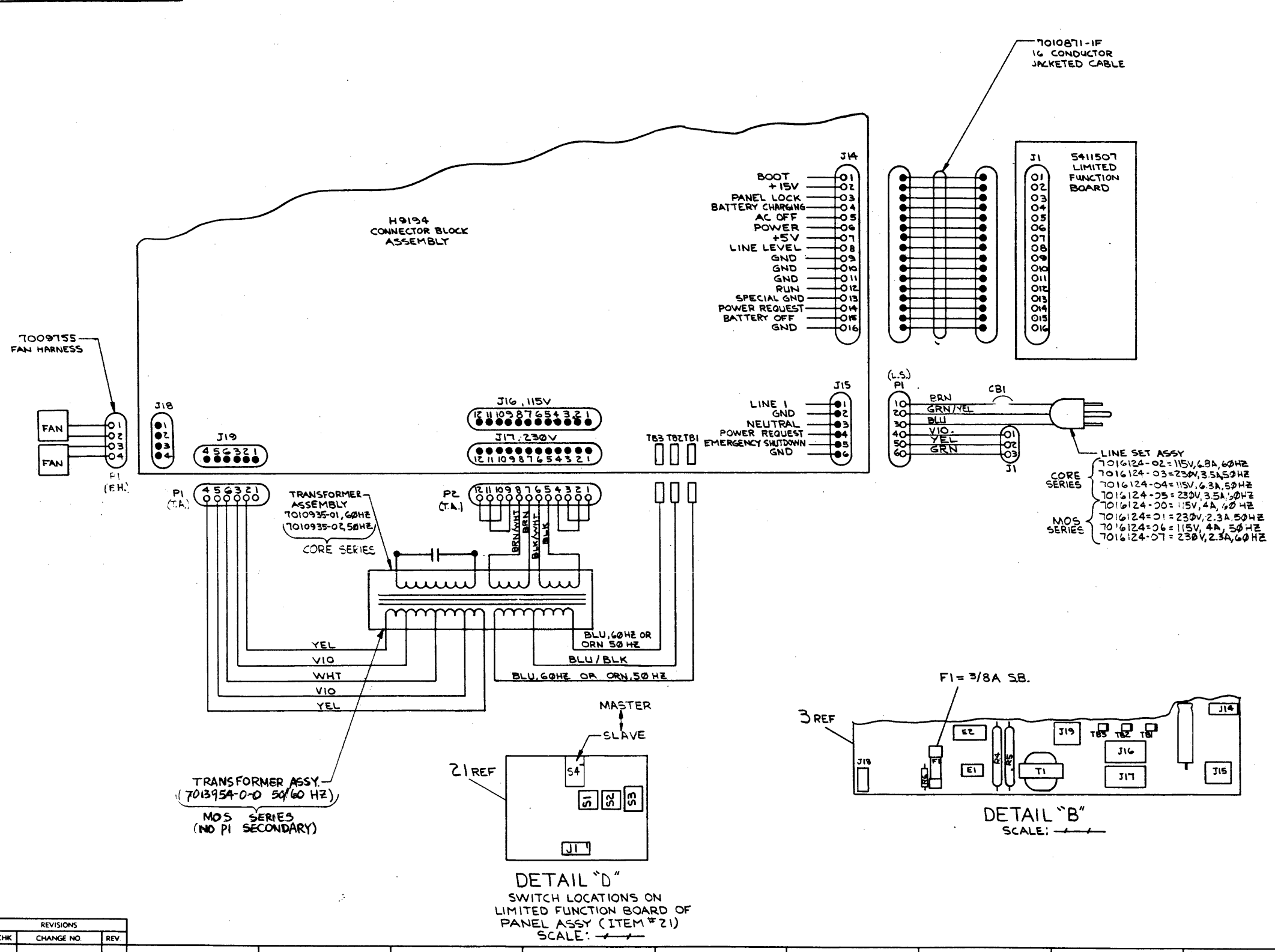
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ASSEMBLY INSTRUCTIONS

- 1 OPERATIONS TO BE PERFORMED PER HARDWARE STANDARDS SP-7005099-0 AND/OR DEC WORKMANSHIP STANDARDS.
- 2 ATTACH FOAM TAPE (ITEM #34) TO CHASSIS (ITEM #4) AS SHOWN IN VIEW A-A.
- 3 INSTALL FAN HARNESS (ITEM #8) INTO CHASSIS AS SHOWN IN DETAIL 'A'.
- ~~4 ATTACH FILTER RETAINERS (ITEM #5) TO THE TWO FANS (ITEM #6) WITH #8-32 X .75 FLAT HEAD SCREWS (ITEM #22) AND THE APPROPRIATE MOUNTING HARDWARE (SEE NOTE #2) - FOUR PLACES EACH FAN.~~
- 5 PLUG FAN HARNESS CONNECTORS J1 & J2 (SEE DETAIL 'A') ON TO THE FAN TERMINALS.
- 6 ATTACH FANS TO CHASSIS WITH #8-32 X .75 FLAT HEAD SCREWS (ITEM #22) AND THE APPROPRIATE MOUNTING HARDWARE - FOUR PLACES EACH FAN.
- 7 REWORK FIVE CARD GUIDES (ITEM #13) AS SHOWN ON DETAIL 'E'.
- 8 INSTALL FULL LENGTH CARD GUIDES (ITEM #13) AND REWORKED CARD GUIDES AS SHOWN (10 PLACES).
- 9 INSTALL THE 1/4 TURN RECEPTACLES (ITEM #32) ON THE TWO TABS ON THE BOTTOM OF THE CHASSIS.
- 10 ATTACH THE H9194 CONNECTOR BLOCK ASSEMBLY (ITEM #3) TO THE REAR OF THE CHASSIS WITH #8-32 X .25 PAN HEAD SCREWS (ITEM #24) AND #8 EXTERNAL TOOTH LOCK WASHERS (ITEM #25) TEN PLACES.
- 11 PLUG P1 OF THE FAN HARNESS (4 PIN CONNECTOR) INTO J18 OF THE H9194 (SEE DETAIL 'B', SHEET 2)
- 12 ATTACH THE LINE SET (ITEM #19-20-21-22-23-24-25-26-27-28-29) TO THE REAR OF THE CHASSIS WITH THREE #6-32 X .25 LG PAN HEAD SCREWS (ITEM #40) AND THREE #6 EXTERNAL TOOTH LOCK WASHERS (ITEM #27) AS SHOWN. SEE DETAIL 'C' (SHEET 1) FOR PROPER GROUNDING.
- 13 PLUG P1 (6 PIN CONNECTOR) OF THE LINE SET INTO J15 OF THE H9194 (SEE DETAIL 'B').
- 14 PLUG ONE END OF THE 16 CONDUCTOR CABLE (ITEM #19) INTO J14 OF THE H9194 AS SHOWN.
- ~~15 SET THE TRANSFORMER ASSEMBLY (ITEM #17 OR 18) IN THE CHASSIS AND FASTEN THE GREEN WIRE TO THE CHASSIS WITH ONE #4-40 X .75 SCREW (ITEM #38) TWO #4 INTERNAL TOOTH LOCK WASHERS (ITEM #36) ONE FLAT WASHER (ITEM #23) AND ONE #4-40 NUT (ITEM #39) AS SHOWN IN DETAIL 'C'.~~
- 16 PLACE THE TRANSFORMER ASSEMBLY IN POSITION (THE 16 CONDUCTOR CABLE SHOULD BE ROUTED UNDERNEATH THE TRANSFORMER) AND ATTACH TO THE CHASSIS WITH FOUR #10-32 X .50 PAN HEAD SCREWS (ITEM #30) AND 10 EXTERNAL TOOTH LOCK WASHERS (ITEM #25) AS SHOWN. SEE DETAIL 'C' (SHEET 1) FOR PROPER GROUNDING.
- 17 PLUG P2 OF THE TRANSFORMER ASSEMBLY (12 PIN CONNECTOR) INTO EITHER J16 (115V) OR J17 (230V) OF THE H9194 (SEE DETAIL 'B').
- 18 CONNECT THE THREE LARGE WIRES ON THE TRANSFORMER ASSEMBLY TO THE TABS TB1, TB2 AND TB3 (SEE DETAIL #B) ON THE H9194. THE BLU/BLK WIRE IS ALWAYS CONNECTED TO THE CENTER TAB (TB2).
- 19 PLUG P1 OF THE TRANSFORMER ASSEMBLY (6 PIN CONNECTOR) INTO J19 OF THE H9194 (SEE DETAIL #B).
- 20 PLUG THE G8018 REGULATOR BOARD (ITEM #2) INTO THE H9194 AS SHOWN, AND SECURE IN PLACE WITH THE TWO ATTACHED 1/4 TURN FASTENERS.
- 21 ATTACH THE LATCH MOLDINGS (ITEM #14) TO THE CHASSIS WITH #10-32 X .75 FLAT HEAD SCREWS (ITEM #29) AND SPEED NUTS (ITEM #28).
- 22 PLUG THE OTHER END OF THE 16 CONDUCTOR CABLE INTO J1 OF THE LIMITED FUNCTION PANEL (ITEM #21) SEE DETAIL #D.
- 23 ATTACH THE LIMITED FUNCTION PANEL TO THE CHASSIS.
- 24 ATTACH THE BLANK BEZEL ASSEMBLY (ITEM #20) TO THE CHASSIS.
- ~~25 SLIDE FILTERS (ITEM #7) INTO FILTER RETAINERS.~~
- 26 ITEMS 14, 16, 22, 23 & 24 THIS INSTRUCTION SHEET REFER TO NOTE #9 AND #10 FOR CORRECTIONS.

D
C
B
A

D
C
B
A



REVISIONS		
CHK	CHANGE NO.	REV.

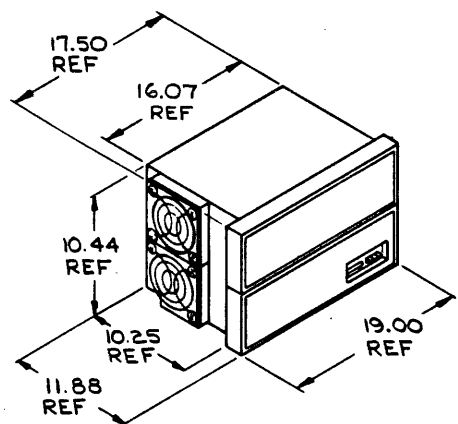
TITLE	CHASSIS ASSY, H9300	SIZE CODE	DUA	NUMBER	H9300-0-0	REV.	J
SCALE	---	SHEET	2 OF 3	DIST.			

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MODULE ASSIGNMENTS AND POWER REQUIREMENTS (SEE NOTES #7,8)

OPTION	DESCRIPTION	BOARD SIZE	NO. SLOTS USED	ASSIGNED SLOT NO.	CURRENT		
					+5V	+15V	-15V
C88-F	CARD RDR CONT.	QUAD	1	4-12	.55A	—	—
CR8-F	CARD RDR CONT.	↑	↑	4-12	.55A	—	—
DB8-EA	INTERPROC. BUFFER	↑	↑	2-12	.89A	—	.83A
DK8-EC	RTC, CRYSTAL	↑	↑	2-12	.34A	—	—
DK8-EP	RTC, PROG.	QUAD	2	2-12	1.43A	—	.87A
DK8-A	OPTION #1	HEX	1	2-3	2.8A	.08A	.10A
DP8-EA, -EB	MODEM INTERFACE	QUAD	2	2-12	1.88A	.85A	.11A
DR8-EA	DIGITAL I/O	QUAD	1	2-12	2.25A	—	—
KA8-E	POSITIVE I/O	QUAD	1	4-12	1.48A	—	—
KCB-AA, -AB	PROG. CONSOLE	PWL. MT.	0	N.A.	2.5A	—	—
KDB-E	DATA BREAK	QUAD	1	4-12	1.2A	—	—
KGB-EA	REDUNDANCY CHECK	QUAD	1	4-12	.94A	—	—
KKB-A	C.P.U.	HEX	1	1	5.8A	—	.84A
KLB-JA	ASYNC. DATA CONT	QUAD	1	2-12	1.1A	.85A	.18A
KLB-M	MODEM CONTROL	QUAD	1	2-12	.48A	.84A	.84A
KMB-A	OPTION #2	HEX	1	2-3	2.8A	—	—
KMB-E	MEM. EXT. & T.S. CONT.	QUAD	1	4-12	1.8A	—	—
LE8-XX	LINE PRINTER CONT.	QUAD	1	2-12	.35A	—	—
LS8-F	LINE PRINTER CONT.	QUAD	1	2-12	.48A	—	—
M88-AA	8K CORE, OPERATING	HEX	2	4-8	2.5A	—	—
M88-AA	8K CORE, STANDBY	HEX	2	4-8	2.5A	—	—
M88-AB	16K CORE, OPERATING	HEX	2	4-8	2.5A	—	—
M88-AB	16K CORE, STANDBY	HEX	2	4-8	2.5A	—	—
MR8-AA	1K ROM	QUAD	1	2-12	2.8A	—	—
MR8-AB	2K ROM	↑	↑	2-12	3.0A	—	—
MR8-AC	3K ROM	↑	↑	2-12	4.0A	—	—
MR8-AD	4K ROM	↑	↑	2-12	5.8A	—	—
MR8-FB	1K PROM	↑	↑	2-12	3.8A	.35A	—
MS8-AA	1K RAM	↑	↑	4-12	1.4A	—	—
MS8-AB	2K RAM	↑	↑	4-12	2.1A	—	—
MS8-AC	3K RAM	↑	↑	4-12	2.8A	—	—
MS8-AD	4K RAM	↑	↑	4-12	3.5A	—	—
PC8-E, PR8-E	RDR/PUNCH CONTROL	↑	↑	4-12	.84A	.85A	—
RXB-E	RXB1 CONTROL	↑	↑	4-8	1.5A	—	—
RKB-EA	RKB5 CONTROL	↑	↑	4-12	3.10A	—	—
TAB-AA	TAB8 CONTROL	↑	↑	2-12	2.88A	—	—
TMB-EA, -FA	TU18 CONTROL	↑	↑	4-12	4.18A	—	—
YCB-E	DISPLAY CONTROL	↑	↑	2-12	.31A	—	—
YTB-E	DISPLAY CONTROL	↑	↑	4-12	3.78A	.89A	.13A
XY8-E	PLOTTER CONTROL	QUAD	1	4-12	.42A	.81A	.83A
KK8-E	M8300 MAJOR REG.	QUAD	1	12	1.7	—	—
	M8310 MAJOR REG. CONT	QUAD	1	11	.6	—	—
	M8330 TIMING GEN	QUAD	1	10	1.2	—	—
	M8320 BUS LOAD	QUAD	1	1	1.0	1.0	.53
M88-CA	16K MOS RAM	HEX	1	4-8	3.3A	—	.7A
M88-CP	32K MOS RAM	↑	↑	4-8	3.5A	—	.7A
KT8-A	MEM. MANAGEMENT	↑	↑	4-8	3.8A	—	—
RL8-A	RLO1 CONTROL	HEX	1	4-12	2.5A	.2A	.1A

AVAILABLE CURRENT - H9300-AA, AB -15V 22A +15V 2A -15V 2A
 - H9300-BA, BB 25A 2A 2A



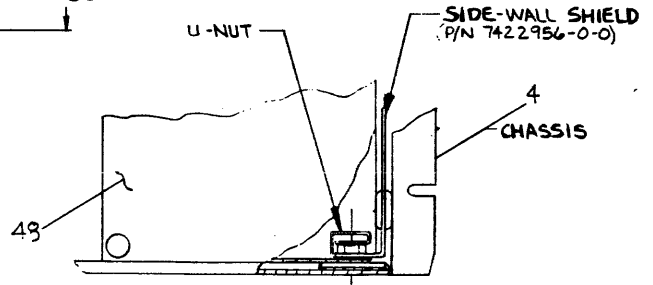
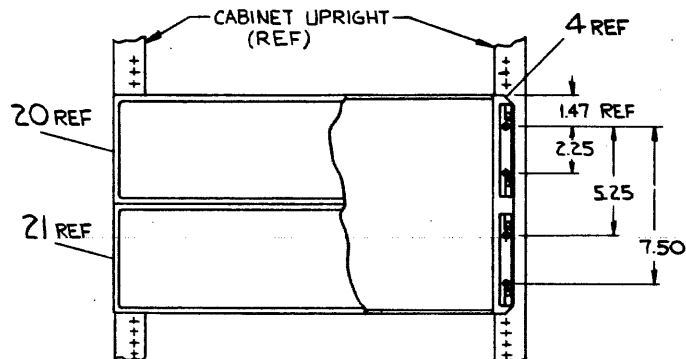
MAX. UNIT WEIGHT = 55 LB.

MOUNTING INSTRUCTIONS

- SEE DETAIL "F" FOR MTG DIM
- THE DIM FROM CENTER LINE OF RIGHT CAB UPRIGHT MOUNTING HOLE TO LEFT CAB UPRIGHT MOUNTING HOLE CENTER LINE IS 16.31.
- REMOVE THE BLANK BEZEL ASSY.
- REMOVE THE LIMITED FUNCTION PANEL AND DISCONNECT THE CABLE FROM THE LIMITED FUNCTION BO.
- REMOVE THE LATCH MOULDING (4 PLACES).
- REMOVE THE SPEED NUT, AND INSTALL ON CABINET POST, 8 PLACES PER MOUNTING DIMENSIONS.
- IT MAY BE NECESSARY TO REMOVE THE FILTER RETAINER AND THE FILTER IN ORDER TO MOUNT THE BOX IN A CABINET.
- WITH THE BOX IN PLACE, IN THE CABINET, REPLACE THE LATCH MOULDING AND SPACERS SO AS TO SECURE THE BOX TO THE CABINET.
- PLUG THE CABLE INTO THE LIMITED FUNCTION BO AND REPLACE LIMITED FUNCTION PANEL.
- REPLACE THE BLANK BEZEL ASSY; REINSTALL THE FILTER RETAINER AND THE FILTER.
- FOR MOUNTING INSTRUCTIONS #4 AND #9, SEE NOTES #9 AND #10.

NOTES:

- TO CREATE A 115V 50 HZ POWER VARIATION USE THE H9300-00 REPLACE THE LINE SET (ITEM #13) WITH A 115V 50 HZ LINE SET (DEC P/N 0-0-001813-03) AND PLUG THE POWER GROUND OF THE TRANSFORMER ASSEMBLY INTO THE POWER GROUND OF THE H9300.
- ALL H9300 POWER SUPPLY DC OUTPUTS ARE PROVIDED TO DRIVE LOGIC INTERNAL TO THE BASIC MACHINE ENCLOSURE. DIGITAL WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE H9300 IF ANY DC POWER IS TAKEN OUTSIDE THE MACHINE.
- ENVIRONMENTAL CONDITIONS FOR H9300 ARE SPECIFIED IN DEC STD 102 CLASS "C" ENVIRONMENT.
- THIS ITEM (NAMEPLATE) IS SHOWN FOR REFERENCE ONLY. IT WILL BE ADDED ON A HIGHER LEVEL ASSEMBLY.
- INSTALL MODULES AS FOLLOWS: PLACEMENT OF HEX MODULES IS FROM SLOT #1(TOP OF BACKPLANE) DOWN. PLACEMENT OF QUAD MODULES IS FROM SLOT #12(BOTTOM OF BACKPLANE) UP.
- CARD GUIDES (ITEM #13) ARE PROVIDED FOR SLOTS #1-10. WHEN A QUAD MODULE WITH AN H851 OR H8511 CONNECTOR BLOCK (MR8-A, MS8-A, ETC) ON THE "E" SET OF FINGERS IS INSTALLED, IT IS NECESSARY TO CLIP OFF THE FRONT-LEFT CARD GUIDE IN THOSE SLOTS SO THAT THE CONNECTOR BLOCK MAY BE PROPERLY SEATED (REF DETAIL "E" FOR AN EXAMPLE OF CARD GUIDE REWORK).
- WHEN USED AS AN EXPANDER BOX THE BC80C ITEM 40, OR THE BC80B CABLE ITEM 41 GOES INTO SLOT 1 OF THE H9300. ALSO THE 16 CONDUCTOR CABLE ITEM 19 IS REMOVED IN EXPANDER BOX AND THE REMOTE SLAVE CIRCUIT ITEM 44 IS INSTALLED IN J14 OF THE H9194 CONNECTOR BLOCK ASSEMBLY.
- ITEM 21 IS REPLACED BY ITEM 45 IN EXPANDER BOX AND ITEM 42 AND 43 ARE INCLUDED IN EXPANDER BOX VARIATIONS. ITEM 43 IS TO BE USED WITH ITEM 42 WHEN EXPANDING TO BE. IN ALL OTHER EXPANSION VARIATIONS ITEM 42 IS USED ALONE.
- REMOVE GROUND WIRE (GARNEL OR GRN) FROM LINE SET #55, ITEM #10, #11, #12 OR #17, WELD STUD. NOTE: LEAD MAY ALREADY BE FREE. AT EACH THIS GROUND WIRE TO CHASSIS (SEE DETAIL "H") USING ITEMS #27, #49, #50 AND #51. NOTE: HOLE IN RIGHT REAR SIDE MAY HAVE TO BE OPENED TO 1/8 IN. FOR #5 SCREW.
- FOR ITEM #46 WITH XFMR H9110 REV. B, A SPECIAL SIDE-WALL MAGNETIC SHIELD SHOULD BE INSTALLED, DEC #7422956-00 (SEE DETAIL "H"). U-NUTS ARE REMOVED FROM RIGHT SIDE OF ASSY AND PLACED ON SHIELD; SHIELD IS THEN POSITIONED FLUSH ALONG SIDE OF ASSY WITH U-NUTS ENTERING OVER MOUNTING HOLES OF ASSY. (ITEM #48, DATE CODED 79 - -)



REVISIONS		
CHK	CHANGE NO.	REV

TITLE	CHASSIS ASSY, H9300	SIZE CODE	DUA	NUMBER	H9300-0-0	REV.	J
SCALE		SHEET	3 OF 3	DIST.			

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				AA	AB	AC	AD	BA	BB	BC	BD	BE	BF	BH	BJ		
1	1	D-CS-G8016-0-1	G8016-00	REGULATOR FOR H763	1	1	1	1	-	-	-	-	-	-	-	-	-
2	2	D-CS-G8018-0-1	G8018-00	H774 REGULATOR	-	-	-	-	1	1	1	1	1	1	1	1	1
3	3	D-AD-H9194-0-0	H9194-00	BUS CONN 8/A 8+4 SLOTS	1	1	1	1	1	1	1	1	1	1	1	1	1
4	4	E-IA-7016715-0-0	7016715-00	CHASSIS WELDMENT	1	1	1	1	1	1	1	1	1	1	1	1	1
5	5		1209403-01	FAN,115CFM,SLEEVE BRNG	2	2	2	2	2	2	2	2	2	2	2	2	2
6	6	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
7	7	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
8	8	D-IA-7009755-0-0	7009755-00	HARNESS FAN (H763) PDF8A	1	1	1	1	1	1	1	1	1	1	1	1	1
9	9	D-AD-7016124-0-0	7016124-00	C.B. LINE SET ASSY	1	-	-	-	-	-	-	-	-	-	-	-	-
10	10	D-AD-7016124-0-0	7016124-01	LINESET ASSY	-	1	-	-	-	-	-	-	-	-	-	-	-
11	11	D-AD-7016124-0-0	7016124-02	LINESET ASSY	-	-	-	-	1	-	1	-	1	-	-	-	-
12	12	D-AD-7016124-0-0	7016124-03	LINESET ASSY	-	-	-	-	-	1	-	1	-	1	-	-	-
13	13		1211630-00	CARD GUIDE	10	10	10	10	10	10	10	10	10	10	10	10	10
14	14		1209224-00	LATCH, NORYL PLASTIC	4	4	4	4	4	4	4	4	4	4	4	4	4
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
17	17	D-IA-7010935-0-0	7010935-01	TRANSFORMER ASSY 60HZ	-	-	-	-	1	-	1	-	1	-	1	-	-
18	18	D-IA-7010935-0-0	7010935-02	TRANSFORMER ASSY 50HZ	-	-	-	-	-	1	-	1	-	1	-	1	-
19	19	C-IA-7010871-0-0	7010871-1F	CABLE KEY BOARD 8A	1	1	1	1	1	1	-	-	-	-	1	1	1
20	20	D-AD-7009978-0-0	7009978-00	BEZEL ASSY (H763)PDF8A	1	1	1	1	1	1	1	1	1	1	1	1	1
21	21	D-AD-7010039-0-0	7010039-04	PANEL LIMITED FUNCTION	1	1	1	1	1	1	-	-	-	-	1	1	1
22	22		9006026-02	SCREW,FLAT,PHIL, 6-32X 3/4	8	8	8	8	8	8	8	8	8	8	8	8	8
23	23	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
24	24		9006035-01	SCREW,PAN,PHIL 8-32X 1/4 SS	10	10	10	10	10	10	10	10	10	10	10	10	10
25	25		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	10	10	10	10	10	10	10	10	10	10	10	10	10
26	26	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-
27	27		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	4	4	4	4	4	4	4	4	4	4	4	4	4
28	28		9007786-01	RETAINER, U-NUT, 10-32	8	8	8	8	8	8	8	8	8	8	8	8	8
29	29		9006075-02	SCREW,FLAT,PHIL, 10-32X 3/4	8	8	8	8	8	8	8	8	8	8	8	8	8
30	30		9006037-01	SCREW,PAN,PHIL 8-32X 3/8 SS	4	4	4	4	4	4	4	4	4	4	4	4	4

REVISION HISTORY		BASIC PART NO: H9300		DRN:	D.SULLIVAN	DATE:	21-FEB-75	DBP	D	I	G	I	T	A	L
ENG	ECD NUMBER	REV	SECTION A OF B	CHK'D:	<i>A. Kavanagh</i>	DATE:	03-JUL-81	TITLE	PARTS LIST						
DF	H9300-MK007	H	SECTION. VARIATION INDEX	CHK'D:	P.GARDNER	DATE:	09-MAY-75	H9300 UNIT ASSEMBLY							
DF	H9300-MK008	J	[A] AA,AB,AC,AD,BA,BB, BC,BD,BE,BF,BH,BJ [B] BK,BL,BM,BN	DES.ENG.:	P.GARDNER	DATE:	09-MAY-75								
			[C]	RESP.ENG.:	<i>Gary J Price</i> D.FRENIERE	DATE:	22-OCT-80	DOCUMENT NUMBER							
			[D]	MFG.ENG.:	D.DEHOME	DATE:	09-MAY-75	K	PL	H9300-0-0			J		
			[E]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	MK0245.PLS			EDIT #:	13		
			[F]	D-UA-H9300-0-0		#B-DD-H9300-0									

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MK

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION													
				AA	AB	AC	AD	BA	BB	BC	BD	BE	BF	BH	BJ		
31	31	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	32		9008196-00	2	2	2	2	2	2	2	2	2	2	2	2	2	
33	33	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	34		9009087-00	1	1	1	1	1	1	1	1	1	1	1	1	1	
35	35	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	36	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	37	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	38	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	39	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	40	D-UA-BC80C-0-0	BC80C-04	-	-	-	-	-	-	-	-	-	-	1	1	-	
41	41	U-UA-BC08H-0-0	BC08H-1F	-	-	-	-	-	-	-	-	2	2	-	-	-	
42	42	C-IA-7008288-0-0	7008288-3F	-	-	-	-	-	-	-	-	1	1	1	1	-	
43	43	C-IA-7013953-0-0	7013953-01	-	-	-	-	-	-	-	-	-	-	1	1	-	
44	44	D-UA-5413011-0-0	5413011-00	-	-	-	-	-	-	-	-	-	-	1	1	-	
45	45	D-AD-7009978-0-0	7009978-01	-	-	-	-	-	-	-	-	1	1	1	1	-	
46	46	D-AD-7016124-0-0	7016124-04	-	-	-	-	-	-	-	-	1	1	1	1	-	
47	47	D-AD-7016124-0-0	7016124-05	-	-	-	-	-	-	-	-	-	-	-	-	1	
48	48	D-IA-7013954-0-0	7013954-00	1	1	1	1	-	-	-	-	-	-	-	-	-	
49	49		9008185-00	14	14	14	14	14	14	14	14	14	14	14	14	14	
50	50	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
51	51	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
52	52	D-IA-7421088-0-0	7421088-00	1	1	1	1	1	1	1	1	1	1	1	1	1	
53	53	C-MD-7421087-0-0	7421087-00	1	1	1	1	1	1	1	1	1	1	1	1	1	
54	54		9006025-03	8	8	8	8	8	8	8	8	8	8	8	8	8	
55	55		1210263-00	2	2	2	2	2	2	2	2	2	2	2	2	2	
56	56	BLANK	*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-	-	-	-	-	-	-	-	
57	57		3613210-00	1	1	1	1	1	1	1	1	1	1	1	1	1	
58	58	D-AD-7016124-0-0	7016124-06	-	-	-	1	-	-	-	-	-	-	-	-	-	
59	59	D-AD-7016124-0-0	7016124-07	-	-	1	-	-	-	-	-	-	-	-	-	-	
60	60		9006020-01	4	4	4	4	4	4	4	4	4	4	4	4	4	
61	61		9007651-00	6	6	6	6	6	6	6	6	6	6	6	6	6	
62	62		9006565-00	2	2	2	2	2	2	2	2	2	2	2	2	2	
63	63		3612680-01	1	1	1	1	1	1	1	1	1	1	1	1	1	
64	64		3613211-00	1	1	1	1	1	1	1	1	1	1	1	1	1	
65	65	A-DC-7416197-0-0	7416197-02	1	1	1	1	1	1	1	1	1	1	1	1	1	
66	66	C-IA-7013952-0-0	7013952-00	-	-	-	-	-	-	-	1	1	1	1	-	-	

D	I	G	I	T	A	L	TITLE	SECTION A OF B	SIZE	CODE	DOCUMENT NUMBER	REV
							H9300 UNIT ASSEMBLY		K	PL	H9300-0-0	J

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
					BK	BL	BM	BN
1	1	D-CS-G8016-0-1	G8016-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
2	2	D-CS-G8018-0-1	G8018-00	H774 REGULATOR	1	1	1	1
3	3	D-AD-H9194-0-0	H9194-00	BUS CONN 8/A 8+4 SLOTS	1	1	1	1
4	4	E-IA-7016715-0-0	7016715-00	CHASSIS WELDMENT	1	1	1	1
5	5		1209403-01	FAN,115CFM,SLEEVE BRNG	2	2	2	2
6	6	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
7	7	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
8	8	D-IA-7009755-0-0	7009755-00	HARNESS FAN (H763) PDP8A	1	1	1	1
9	9	D-AD-7016124-0-0	7016124-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
10	10	D-AD-7016124-0-0	7016124-01	*** THIS ITEM IS NOT USED ***	-	-	-	-
11	11	D-AD-7016124-0-0	7016124-02	*** THIS ITEM IS NOT USED ***	-	-	-	-
12	12	D-AD-7016124-0-0	7016124-03	*** THIS ITEM IS NOT USED ***	-	-	-	-
13	13		1211630-00	CARD GUIDE	10	10	10	10
14	14		1209224-00	LATCH, NORYL PLASTIC	4	4	4	4
15	15	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
16	16	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
17	17	D-IA-7010935-0-0	7010935-01	TRANSFORMER ASSY 60HZ	1	-	1	-
18	18	D-IA-7010935-0-0	7010935-02	TRANSFORMER ASSY 50HZ	-	1	-	1
19	19	C-IA-7010871-0-0	7010871-1F	*** THIS ITEM IS NOT USED ***	-	-	-	-
20	20	D-AD-7009978-0-0	7009978-00	BEZEL ASSY (H763)PDP8A	1	1	1	1
21	21	D-AD-7010039-0-0	7010039-04	*** THIS ITEM IS NOT USED ***	-	-	-	-
22	22		9006026-02	SCREW,FLAT,PHIL, 6-32X 3/4	8	8	8	8
23	23	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
24	24		9006035-01	SCREW,PAN,PHIL 8-32X 1/4 SS	10	10	10	10
25	25		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	10	10	10	10
26	26	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
27	27		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	4	4	4	4
28	28		9007786-01	RETAINER, U-NUT, 10-32	8	8	8	8
29	29		9006075-02	SCREW,FLAT,PHIL, 10-32X 3/4	8	8	8	8
30	30		9006037-01	SCREW,PAN,PHIL 8-32X 3/8 SS	4	4	4	4

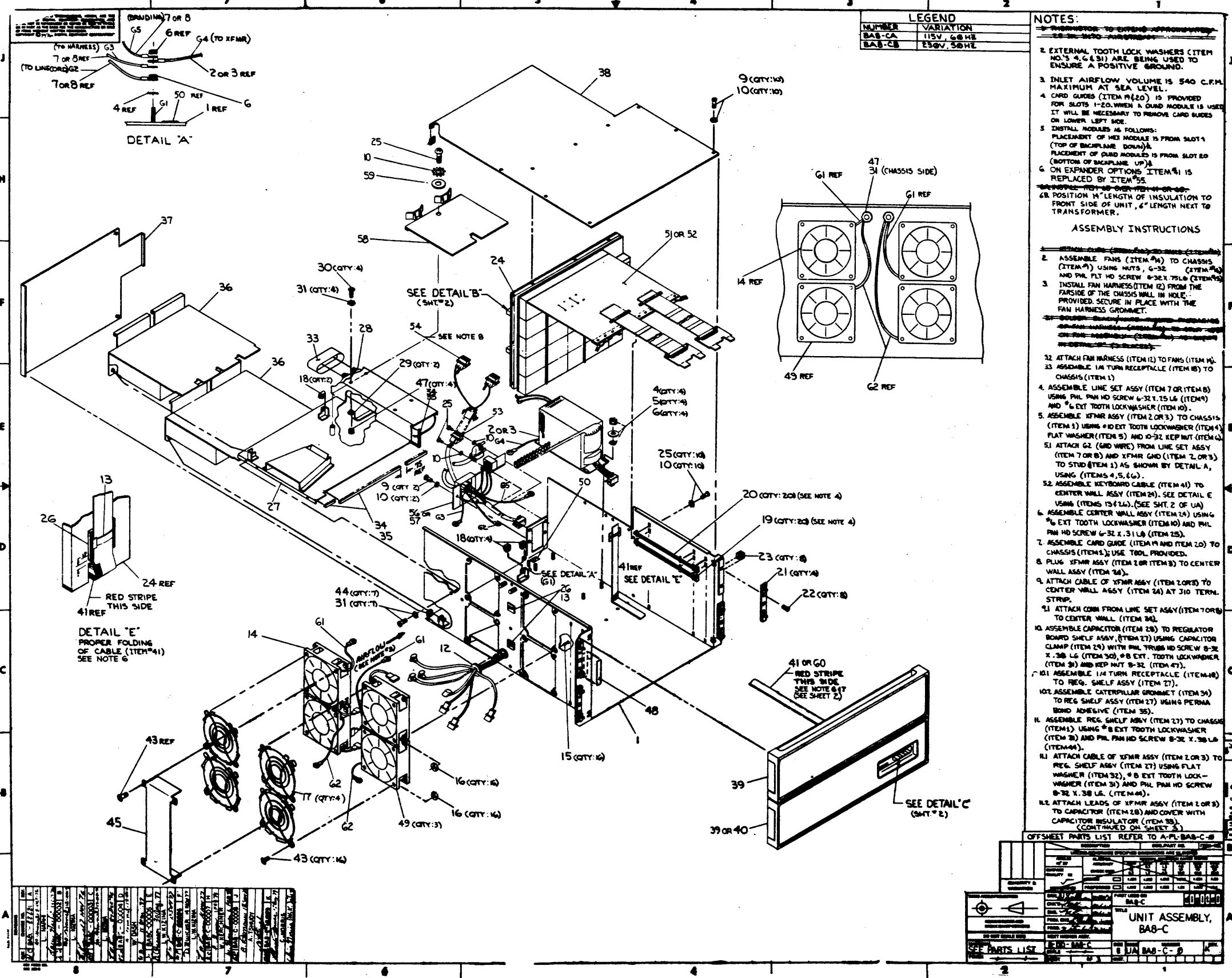
REVISION HISTORY			BASIC PART NO: H9300		DRN: D.SULLIVAN	DATE: 21-FEB-75	DBP	DIGITAL			
ENG	ECD NUMBER	REV	SECTION B OF B	CHK'D:			TITLE	PARTS LIST			
DF	H9300-MK007	H	SECTION, VARIATION INDEX	<i>A. Kowich</i>	P.GARDNER	23-JUL-81	H9300 UNIT ASSEMBLY				
DF	H9300-MK008	J	[A] AA,AB,AC,AD,BA,BB, BC,BD,BE,BF,BH,BJ [B] BK,BL,BM,BN [C] [D] [E] [F]		P.GARDNER	09-MAY-75					
					<i>Ray L. Prie</i>	22-OCT-80	DOCUMENT NUMBER				
					D.DEHOME	09-MAY-75	SIZE: K	CODE: PL	NUMBER: H9300-0-0	REV: J	
							FILE NAME: MK0245.PLS	EDIT #:	13		

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MK

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
					BK	BL	BM	BN
31	31	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
32	32		9008196-00	RECP. CLIP ON F/1/4 TURN FASTNR	2	2	2	2
33	33	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
34	34		9009087-00	FOAM, TAPE, SINGLE SIDED 1/8 THK	1	1	1	1
35	35	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
36	36	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
37	37	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
38	38	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
39	39	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
40	40	D-UA-BC80C-0-0	BC80C-04	BC80C CABLE	-	-	1	1
41	41	D-UA-BC08H-0-0	BC08H-1F	CABLE	2	2	-	-
42	42	C-IA-7008288-0-0	7008288-3F	CABLE ASSY	1	1	1	1
43	43	C-IA-7013953-0-0	7013953-01	BE POWER CONTROL ADAPTER CABLE	-	-	1	1
44	44	D-UA-5413011-0-0	5413011-00	H9300 REMOTE SLAVE CIRCUIT	1	1	1	1
45	45	D-AD-7009978-0-0	7009978-01	BLANK BEZEL ASSY	1	1	1	1
46	46	D-AD-7016124-0-0	7016124-04	LINESET ASSY	-	1	-	1
47	47	D-AD-7016124-0-0	7016124-05	LINESET ASSY	1	-	1	-
48	48	D-IA-7013954-0-0	7013954-00	*** THIS ITEM IS NOT USED ***	-	-	-	-
49	49		9008185-00	NUT,KEP 6-32X 1/4 AF	14	14	14	14
50	50	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
51	51	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
52	52	D-IA-7421088-0-0	7421088-00	COVER,FAN HARNESS	1	1	1	1
53	53	C-MD-7421087-0-0	7421087-00	ENCLOSURE PLATE	1	1	1	1
54	54		9006025-03	SCREW,TRUS,PHIL, 6-32X 5/8	8	8	8	8
55	55		1210263-00	GUARD,FINGER 4.125 X 4.125 MTG H	2	2	2	2
56	56	BLANK		*** THIS ITEM IS NOT USED ***	-	-	-	-
57	57		3613210-00	/REPLACED BY 36-17674-00	1	1	1	1
58	58	D-AD-7016124-0-0	7016124-06	*** THIS ITEM IS NOT USED ***	-	-	-	-
59	59	D-AD-7016124-0-0	7016124-07	*** THIS ITEM IS NOT USED ***	-	-	-	-
60	60		9006020-01	SCREW,PAN,PHIL 6-32X 1/4 SS	4	4	4	4
61	61		9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	6	6	6	6
62	62		9006565-00	NUT,KEP 10-32X 3/8 AF	2	2	2	2
63	63		3612680-01	DECAL, GROUND SIGN PER 396 *	1	1	1	1
64	64		3613211-00	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1
65	65	A-DC-7416197-0-0	7416197-02	DECAL-UL LISTED EDP	1	1	1	1
66	66	C-IA-7013952-0-0	7013952-00	REMOTE INTERLOCK JUMPER ASSY	1	1	1	1

D	I	G	I	T	A	L	TITLE	H9300 UNIT ASSEMBLY	SECTION B OF B	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	H9300-0-0	J



ITEM NO.	DESCRIPTION	QTY	UNIT
1	CHASSIS	1	EA
2	XFMR ASSY	1	EA
3	XFMR ASSY	1	EA
4	#6 EXT TOOTH LOCKWASHER	10	EA
5	FLAT WASHER	10	EA
6	PHIL PAN HD SCREW 0-32 X .75 L6	10	EA
7	LINE SET ASSY	1	EA
8	LINE SET ASSY	1	EA
9	KEYBOARD CABLE	1	EA
10	XFMR GND	1	EA
11	XFMR GND	1	EA
12	FAN HARNESS	1	EA
13	KEYBOARD CABLE	1	EA
14	KEYBOARD CABLE	1	EA
15	CHASSIS	1	EA
16	FAN	4	EA
17	FAN	4	EA
18	1/4 TURN RECEPTACLE	1	EA
19	CARD GUIDE	1	EA
20	CARD GUIDE	1	EA
21	XFMR ASSY	1	EA
22	XFMR ASSY	1	EA
23	XFMR ASSY	1	EA
24	CENTER WALL ASSY	1	EA
25	PHIL PAN HD SCREW 0-32 X .31 L6	10	EA
26	KEYBOARD CABLE	1	EA
27	REG SHELF ASSY	1	EA
28	CAPACITOR	1	EA
29	CAPACITOR CLAMP	1	EA
30	PHIL TRUSS HD SCREW 0-32 X .38 L6	1	EA
31	#8 EXT. TOOTH LOCKWASHER	1	EA
32	FLAT WASHER	1	EA
33	CAPACITOR INSULATOR	1	EA
34	CATERPILLAR GROMMET	1	EA
35	PERMA BOND ADHESIVE	1	EA
36	XFMR ASSY	1	EA
37	XFMR ASSY	1	EA
38	CHASSIS	1	EA
39	CHASSIS	1	EA
40	CHASSIS	1	EA
41	KEYBOARD CABLE	1	EA
42	KEYBOARD CABLE	1	EA
43	FAN	4	EA
44	PHIL PAN HD SCREW 0-32 X .38 L6	10	EA
45	PHIL PAN HD SCREW 0-32 X .75 L6	10	EA
46	PHIL PAN HD SCREW 0-32 X .75 L6	10	EA
47	KEP NUT 0-32	10	EA
48	CHASSIS	1	EA
49	FAN	4	EA
50	CHASSIS	1	EA
51	CHASSIS	1	EA
52	CHASSIS	1	EA
53	CHASSIS	1	EA
54	CHASSIS	1	EA
55	CHASSIS	1	EA
56	CHASSIS	1	EA
57	CHASSIS	1	EA
58	CHASSIS	1	EA
59	CHASSIS	1	EA

OFFSHEET PARTS LIST REFER TO A-PL-BAB-C-8

ITEM NO.	DESCRIPTION	QTY	UNIT
1	CHASSIS	1	EA
2	XFMR ASSY	1	EA
3	XFMR ASSY	1	EA
4	#6 EXT TOOTH LOCKWASHER	10	EA
5	FLAT WASHER	10	EA
6	PHIL PAN HD SCREW 0-32 X .75 L6	10	EA
7	LINE SET ASSY	1	EA
8	LINE SET ASSY	1	EA
9	KEYBOARD CABLE	1	EA
10	XFMR GND	1	EA
11	XFMR GND	1	EA
12	FAN HARNESS	1	EA
13	KEYBOARD CABLE	1	EA
14	KEYBOARD CABLE	1	EA
15	CHASSIS	1	EA
16	FAN	4	EA
17	FAN	4	EA
18	1/4 TURN RECEPTACLE	1	EA
19	CARD GUIDE	1	EA
20	CARD GUIDE	1	EA
21	XFMR ASSY	1	EA
22	XFMR ASSY	1	EA
23	XFMR ASSY	1	EA
24	CENTER WALL ASSY	1	EA
25	PHIL PAN HD SCREW 0-32 X .31 L6	10	EA
26	KEYBOARD CABLE	1	EA
27	REG SHELF ASSY	1	EA
28	CAPACITOR	1	EA
29	CAPACITOR CLAMP	1	EA
30	PHIL TRUSS HD SCREW 0-32 X .38 L6	1	EA
31	#8 EXT. TOOTH LOCKWASHER	1	EA
32	FLAT WASHER	1	EA
33	CAPACITOR INSULATOR	1	EA
34	CATERPILLAR GROMMET	1	EA
35	PERMA BOND ADHESIVE	1	EA
36	XFMR ASSY	1	EA
37	XFMR ASSY	1	EA
38	CHASSIS	1	EA
39	CHASSIS	1	EA
40	CHASSIS	1	EA
41	KEYBOARD CABLE	1	EA
42	KEYBOARD CABLE	1	EA
43	FAN	4	EA
44	PHIL PAN HD SCREW 0-32 X .38 L6	10	EA
45	PHIL PAN HD SCREW 0-32 X .75 L6	10	EA
46	PHIL PAN HD SCREW 0-32 X .75 L6	10	EA
47	KEP NUT 0-32	10	EA
48	CHASSIS	1	EA
49	FAN	4	EA
50	CHASSIS	1	EA
51	CHASSIS	1	EA
52	CHASSIS	1	EA
53	CHASSIS	1	EA
54	CHASSIS	1	EA
55	CHASSIS	1	EA
56	CHASSIS	1	EA
57	CHASSIS	1	EA
58	CHASSIS	1	EA
59	CHASSIS	1	EA

UNIT ASSEMBLY, BAB-C

SEE PARTS LIST

MODULE ASSIGNMENT AND POWER REQUIREMENTS

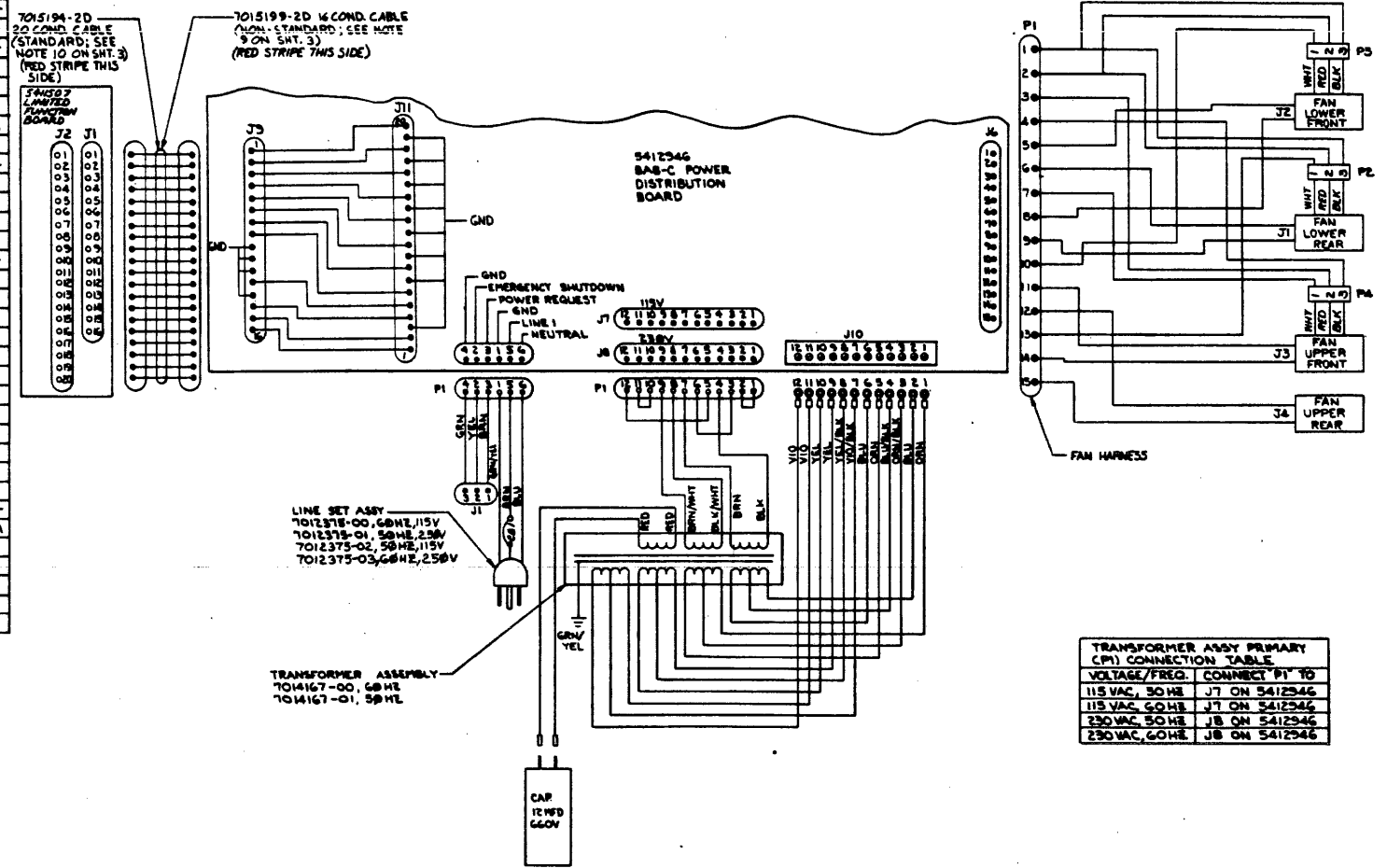
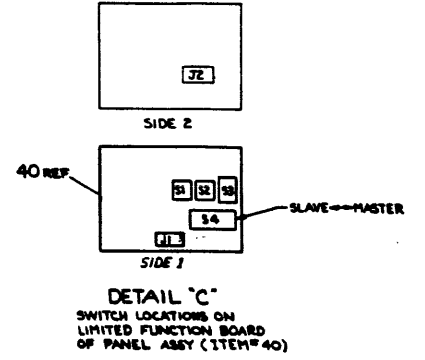
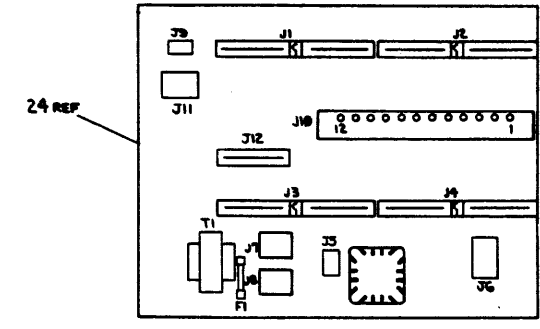
OPTION	DESCRIPTION	BOARD SIZE	NO. SLOTS USED	ASSIGNED SLOF NO.	+5V	+15V	-15V
CMB-F	CARD RDR CONT.	QUAD	1	4-20	56A	---	---
CRB-F	CARD RDR CONT.	---	1	4-20	55A	---	---
DBB-EA	INTERPROC. BUFFER	---	1	2-20	80A	---	.03A
DKB-EC	RTC CRYSTAL	---	1	2-20	34A	---	---
DNB-EP	RTC PROG.	QUAD	2	2-20	143A	---	.07A
DKB-A	OPTION ¹	HEX	1	2-3	2.0A	.06A	.1A
DPB-EA-EB	MODEM INTERFACE	QUAD	2	2-20	1.80A	.05A	.11A
DRB-EA	DIGITAL I/O	QUAD	1	2-20	2.25A	---	---
KAB-E	POSITIVE I/O	QUAD	1	4-20	1.40A	---	---
KCB-AA-AB	PROG. CONSOLE	PNL. MT.	0	N.A.	2.5A	---	---
KDB-E	DATA BREAK	QUAD	1	4-20	1.2A	---	---
KGB-EA	REUNDANCY CHECK	QUAD	1	4-20	.94A	---	---
KKB-A	C.P.U.	HEX	1	1	5.0A	---	.04A
KLB-MA	ASYNC. DATA CONT.	QUAD	1	2-20	1.1A	.05A	.10A
KLB-M	MODEM CONTROL	QUAD	1	2-20	.40A	.04A	.04A
KMB-AA QR-AB	OPTION ²	HEX	1	2-3	2.0A	---	---
KMB-E	MEM. EXT. & T.S. CONT.	QUAD	1	4-20	1.0A	---	---
LEB-XX	LPDS CONTROL	QUAD	1	2-20	35A	---	---
LSB-F	LSBI CONTROL	QUAD	1	2-20	40A	---	---
MMB-AA	8K CORE, OPERATING	HEX	2	4-11	2.5A	---	---
MMB-AB	8K CORE, STANDBY	HEX	2	4-11	2.5A	---	---
MMB-AS	16K CORE, STANDBY	HEX	2	4-11	2.5A	---	---
MRB-AA	1K ROM	QUAD	1	2-20	2.0A	---	---
MRB-AB	2K ROM	---	1	2-20	3.0A	---	---
MRB-AC	3K ROM	---	1	2-20	4.0A	---	---
MRB-AD	4K ROM	---	1	2-20	5.0A	---	---
MRB-FB	1K PROM	---	1	2-20	3.8A	---	.35A
MRS-AA	1K RAM	---	1	4-20	1.4A	---	---
MRS-AB	2K RAM	---	1	4-20	2.1A	---	---
MRS-AC	3K RAM	---	1	4-20	2.8A	---	---
MRS-AD	4K RAM	---	1	4-20	3.5A	---	---
PCB-E, PRB-E	PCBI CONTROL	---	1	4-20	84A	---	.95A
RXB-E	RXBI CONTROL	---	1	4-20	1.5A	---	---
RKB-EA	RKBI CONTROL	---	3	4-20	3.8A	---	---
TAB-AA	TU6B CONTROL	---	1	2-20	2.8A	---	---
TMB-EA-FA	TUIB CONTROL	---	4	4-20	4.8A	---	---
VCB-E	DISPLAY CONTROL	---	2	2-20	3.1A	---	---
VTB-E	DISPLAY CONTROL	---	3	4-20	3.78A	.89A	.13A
YTB-E	PLOTTER CONTROL	---	1	4-20	.42A	.01A	.03A
KKB-E	M830B, MAJOR REG.	---	1	#18	1.7A	---	---
	M831B, MAJOR REG. CONT.	---	1	#19	60A	---	---
	M832B, TIMING GEN.	---	1	#20	1.2A	---	---
	M832B, BUS LOAD	---	1	1	1.0A	1.0A	.55A
ADB-A	A/D CONV.	QUAD	1	4-20	3.25A	---	---
FPPB-A	FLOATING POINT	HEX	2	4-20	8.8A	---	---
KEB-E	M834G, EAE IR	---	1	#19	1.6A	---	---
	M834I, EAE REG	---	1	#18	---	---	---
KLB-A	M81U	HEX	1	4-20	2.5A	.89A	.425A
LAB-P	LAMB CONT.	QUAD	1	4-20	1.0A	---	---
MIB-E	BOOT LOADER	QUAD	1	4-20	.75A	---	.05A
RKB-L	RKBI CONT.	QUAD	2	4-20	3.5A	---	---
TDB-E	TU6B CONT.	QUAD	1	4-20	1.3A	---	---
VIB-A	VIDED DISPLAY CONT.	HEX	1	4-20	2.8A	---	---

* WITH KEB-E OPTION, M830B / M831B MUST BE MOVED TO SLOTS 16 / 17 RESPECTIVELY. THE KEB-E OPTION PLUGS INTO SLOTS 18 / 19 (M834I / M834G)

AVAILABLE CURRENT:

SLOTS #1 THRU 10	+5V	-15V	+15V
	25A	2A	2A
	(MAX)	(MAX)	(MAX)

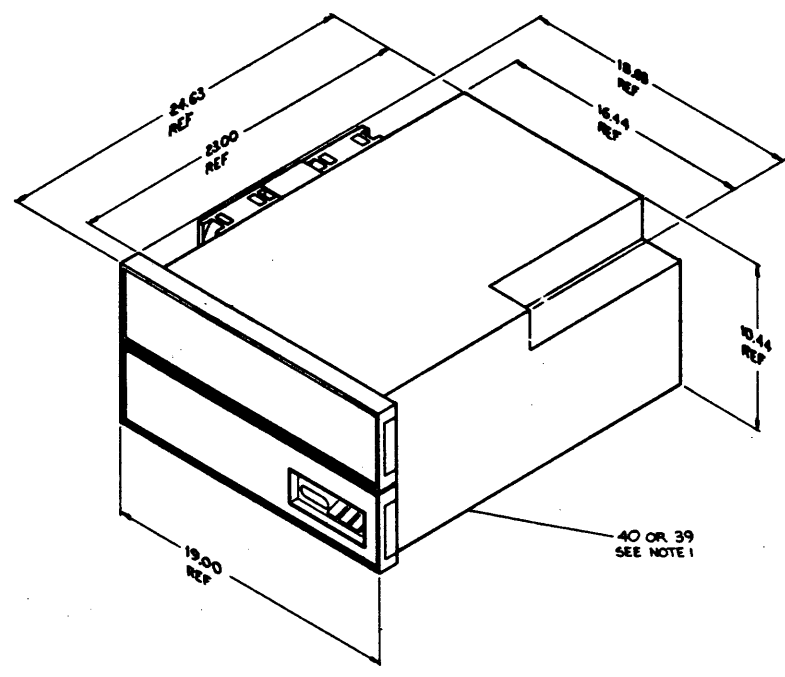
SLOTS #11 THRU 20	+5V	-15V	+15V
	2.5A	2A	2A
	(MAX)	(MAX)	(MAX)



UNIT ASSEMBLY, BAA-C
 DRAWING NO. 100-100000-100
 REV. 100-100000-100

BAA-C TORQUE SPECIFICATIONS	
ITEM	TORQUE ± 2 IN/LBS
16	12
6	25
9	13
25	13
30	15
2 OR 3 (TERMS)	15
44	15
22	12
43	12
15	12

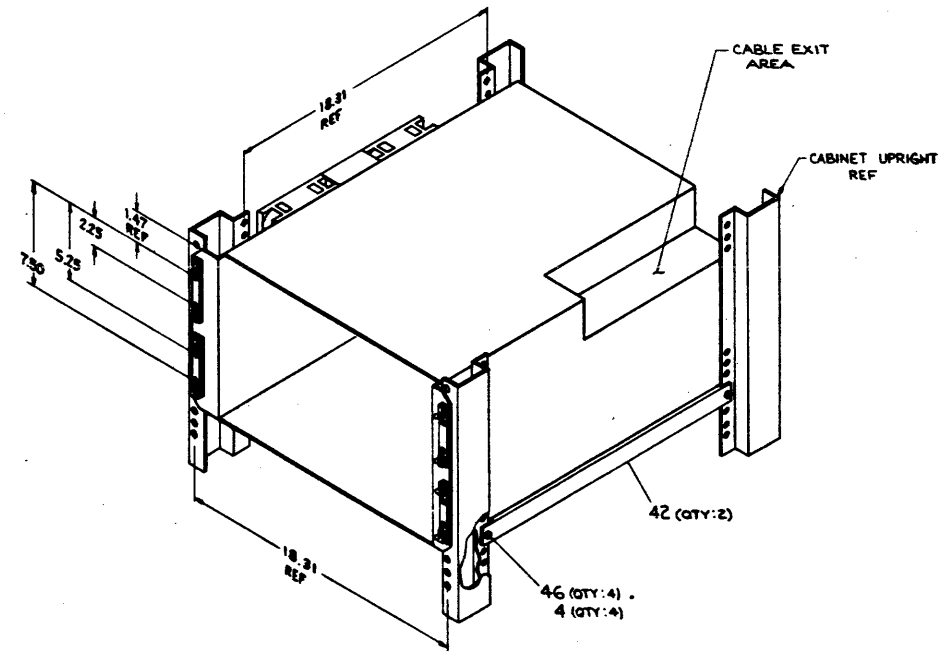
- 11.3 INSERT GROUND (ITEM 34) TO CENTER HILL ASSY (ITEM 24) USING PHL PAN HD SCREW G-32 X .50 (ITEM 25) AND INT. TOOTH LOCK WSR (ITEM 10) AND FLAT WSR (ITEM 52).
 12. INSERT LOWER GROUND (ITEM 36) TO CHASSIS (ITEM 1) AND CENTER WALL ASSY (ITEM 14).
 - 12.1 INSERT UPPER GROUND (ITEM 34) TO REG SHELF ASSY (ITEM 17) AND CENTER WALL ASSY (ITEM 14).
 13. ADD 1/4 TURN RECEPTACLE (ITEM 18) TO TOP COVER (ITEM 38).
 14. ASSEMBLE TOP COVER (ITEM 38) TO CHASSIS (ITEM 1) USING #6 EXT TOOTH LOCK WASHER (ITEM 10) AND PHL PAN HD SCREW G-32 X .75 LG (ITEM 9).
 15. ASSEMBLE REAR COVER (ITEM 37) TO CHASSIS (ITEM 1).
 16. ASSEMBLE LATCH HOLDING (ITEM 2) TO CHASSIS (ITEM 1) USING 10-32 SPEED NUT (ITEM 23) AND PHL FLAT HD SCREW 10-32 X .75 LG (ITEM 22).
 17. ATTACH KEYBOARD CABLE (ITEM 4) TO LIMITED FUNCTION PANEL (ITEM 40). SEE NOTE 7.
 18. ATTACH 5/16 BLANK BEZEL ASSY (ITEM 39) TO CHASSIS (ITEM 1). SEE NOTE 7.
 19. ATTACH GND STRAP (ITEMS 54 + 56) TO FANS (ITEMS 1A + 4B) WITH SCREW PROVIDED, THEN ATTACH GND STRAP TO CHASSIS STUDS (ITEM 1) WITH #8 REP-NUT (ITEM 47) #8 EXT TOOTH LOCK WASHER (ITEM 51).
- NOTES
7. IN EXPANSION OPTIONS KEYBOARD CABLE IS REPLACED BY REMOTE INTERLOCK JUMPER (ITEM 55). THIS JUMPER IS INSERTED INTO 39 ON THE 5412546 POWER DISTRIBUTION BOARD. ALSO EXPANDER BOXES DO NOT INCLUDE LIMITED FUNCTION PANELS (ITEM 40). IN THIS CASE THERE WILL BE TWO 5/16 BLANK BEZELS. THESE ARE TO BE MOUNTED ONE ON TOP OF THE OTHER ON THE CHASSIS FRONT.
 8. ALL EXPANDER BOX VARIATIONS WILL CONTAIN ITEMS 53 AND 54. USE ITEMS 53 AND 54 WHEN EXPANDING TO SE BOX. IN ALL OTHER EXPANSION VARIATIONS USE ONLY ITEM 53 AS POWER CONTROL CABLE.
 9. THIS CABLE TO BE USED WITH LIMITED FUNCTION BOARD ETCH REV B OR EARLIER. (CS REV D OR EARLIER)
 10. THIS CABLE TO BE USED WITH LIMITED FUNCTION BOARD ETCH REV C AND LATER. (CS REV E OR LATER)
- ASSEMBLY INSTRUCTIONS
- 19A. ATTACH WIRES TO CABLE TIE MOUNT (ITEM 26) WITH CABLE TIE (ITEM 13).
 - 19B. ASSEMBLE HARNESS COVER (ITEM 45) AND FINGER GUARD (ITEM 17) TO FANS (ITEM 14) USING KEPNUT G-32 (ITEM 16) AND PHL PAN HD SCREW G-32 X .75 LG (ITEM 43).



MAX. UNIT WEIGHT = 117 LBS.

MOUNTING INSTRUCTIONS

1. SEE DETAIL "D" FOR MOUNTING DIMENSIONS.
2. REMOVE THE BLANK BEZEL ASSEMBLY OR PROGRAMMER'S PANEL.
3. REMOVE THE LIMITED FUNCTION PANEL AND DISCONNECT THE CABLE FROM THE LIMITED FUNCTION BOARD.
4. REMOVE THE LATCH HOLDING (4 PLCS)
5. REMOVE THE SPEED NUT, AND INSTALL ON CAB UPRIGHT. EIGHT PLACES PER MOUNTING DIMENSIONS.
6. IT MAY BE NECESSARY TO REMOVE THE FINGER GUARDS (4) AND HARNESS COVER IN ORDER TO MOUNT BOX IN CAB.
7. ATTACH MOUNTING RAILS USING SCREWS AND LOCK WASHERS TO LEFT AND RIGHT SIDE OF CABINET AS PER DETAIL "D"
8. WITH THE BOX IN PLACE, IN THE CABINET, REPLACE THE LATCH HOLDING, SO AS TO SECURE THE BOX TO THE CABINET.
9. PLUG THE CABLE INTO THE LIMITED FUNCTION PANEL AND REPLACE THE PANEL.
10. REPLACE BLANK BEZEL OR PROGRAMMER'S PANEL.
11. RE-INSTALL FINGER GUARDS AND HARNESS COVER.



DETAIL "D"
MOUNTING DIMENSIONS

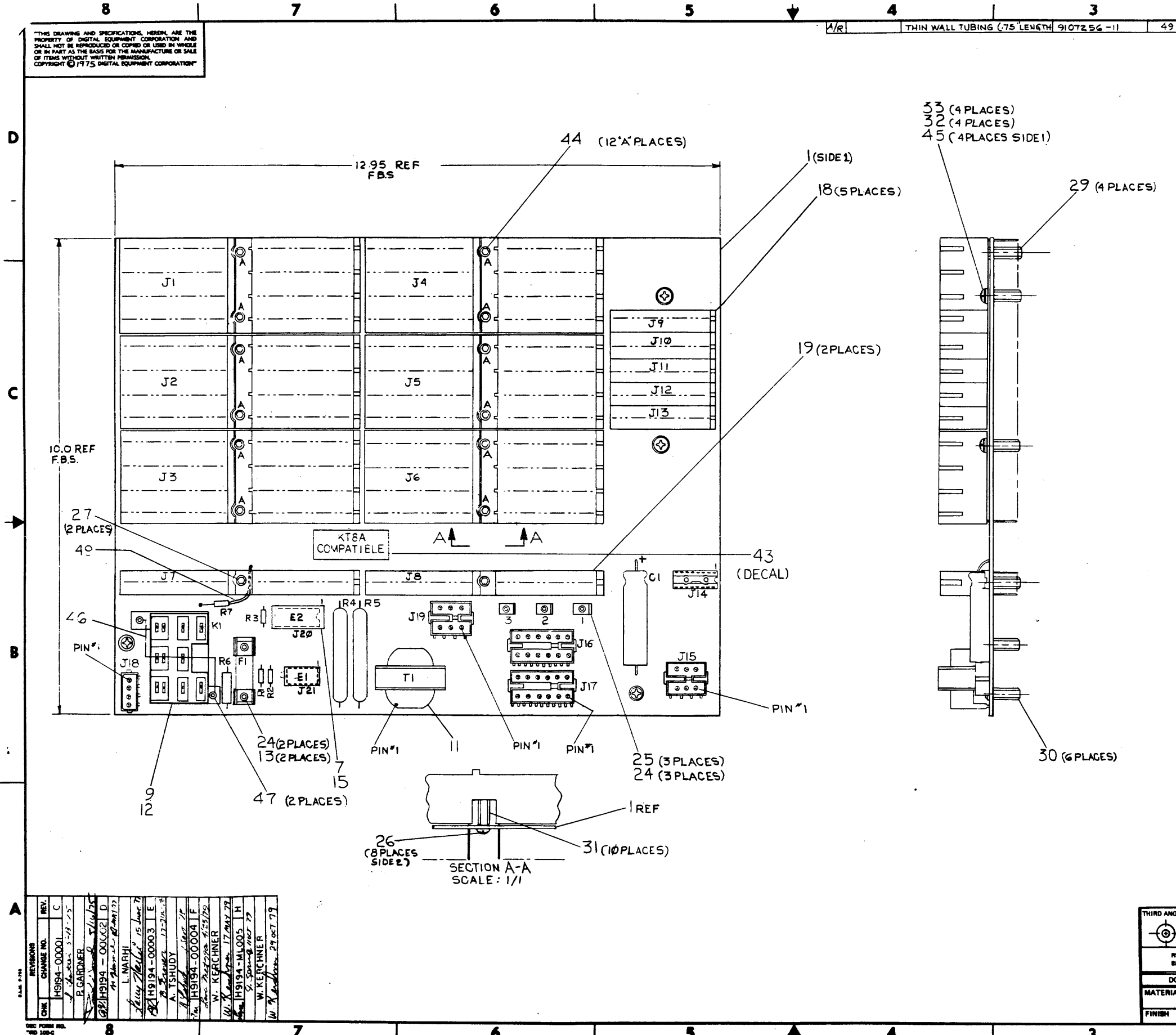
REV	DATE	CHANGE BY	CHK

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION											
PARTS LIST														
MADE BY D. SULLIVAN DATE 22 MAR 76		CHECKED <i>J.M. Boy...</i> DATE 26 JULY 76		SECTION 1										
ENG <i>Larry Natch</i> DATE 26 JULY 76		PROD <i>J. St...</i> DATE 26 JULY 76		ISSUED SECT. 1										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION												
23	9007786-01	NUT, SPEED #10-32												
24	7014245-0-0	WALL ASSY, CENTER												
25	9006021-01	SCR, PHL PAN HD #6-32 X .31LG.												
26	9008264	MOUNT, CABLE TIE												
27	D-AD-7012541-0-0	SHELF ASSY, REG. BOARD												
28	1011729-01	CAPACITOR, 12 MFD, 660 V												
29	1213156	CLAMP, CAPACITOR												
30	9006037-03	SCR, PHL TRUSS HD, #8-32 X .31 LG.												
31	9008072	WASHER, #8 EXT TOOTH LOCK												
32	9006680	WASHER, FLT, .375 X .187 I.D. X .036 THK												
33	1213663	TERMINAL, BOOT CAP												
34	9007036	GROMMET, CATERPILLAR												
35	9009157	ADHESIVE, PERMA BOND #102												
36	D-CS-G8018-0-1	REGULATOR BOARD ASSEMBLY (CORE)												
37	D-IA-7415703-0-0	COVER, REAR												
38	D-MD-7415706-0-0	COVER, TOP												
39	D-AD-7012452-0-0	BEZEL ASSY, 5.25 BLANK												
40	D-AD-7010039-03	PANEL, LIMITED FUNCTION												
41	C-IA-7015194-2D	20 COND. PANEL CABLE												
42	C-MD-7415702-0-0	RAIL, CHASSIS MOUNTING												
43	9006026-03	SCR, PHL TRUSS HD #6-32 X .75 LG.												
44	9006037-01	SCR, PHL PAN HD #8-32 X .38 LG.												
TITLE BAB-C UNIT ASSEMBLY		ASSY NO. B-DD-BAB-C	SIZE A	CODE PL	NUMBER BAB-C-0					REV K	ECO NO.			
DEC FORM DEC 16-(325)-1031-N870 DRA 110		SHEET 2 OF 3	DIST.		ML									

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION											
PARTS LIST														
MADE BY D. SULLIVAN DATE 22 MAR 76		CHECKED <i>J.M. Boy...</i> DATE 26 JULY 76		SECTION 1										
ENG <i>Larry Natch</i> DATE 26 JULY 76		PROD <i>J. St...</i> DATE 26 JULY 76		ISSUED SECT. 1										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION												
45	D-MD-7416740-0-0	COVER, HARNFSS												
46	9006071-03	SCR, PHL TRUSS HD #10-32 X .38LG.												
47	9006563	NUT, KEPS # 8-32												
48	A-DC-7417273-0-0	WARNING LABEL												
49	7014193-00	FAN ASSEMBLY												
50	3612680-01	DECAL												
51	D-UA-BC80C-04	CABLE, HXK OMNIBUS EXPANDER												
52	D-UA-BC08H-1F	CABLE, OMNIBUS EXPANDER												
53	C-IA-7008288-3F	CABLE, DC POWER CONTROL BUS												
54	C-IA-70-13953-01	CABLE, 8E DC POWER CONTROL ADAPTER												
55	D-UA-5413011-0-0	CIRCUIT, REOTE SLAVE												
56	D-AD-7012375-02	LINE SET ASSY (115V, 50HZ)												
57	D-AD-7012375-03	LINE SET ASSY (230V, 60HZ)												
58	G8019	POWER DIST. CONTROL BOARD												
59	9006653	WASHER, FLAT #6												
* 60	C-IA-7015199-2D	16 COND. PANEL CABLE												
61	7011412-OF	CABLE, CHASSIS GND.												
62	7011412-OI	CABLE, CHASSIS, GND												
63	9109250-00	TUBING, SHRINK 1/4 IN. LENGTH												
TITLE BAB-C UNIT ASSEMBLY		ASSY NO. B-DD-BAB-C	SIZE A	CODE PL	NUMBER BAB-C-0					REV K	ECO NO.			
DEC FORM DEC 16-(325)-1031-N870 DRA 110		SHEET 3 OF 3	DIST.		ML									

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY/VARIATION											
PARTS LIST														
MADE BY D. SULLIVAN DATE 22 MAR 76		CHECKED <i>J.M. Boy...</i> DATE 26 JULY 76		SECTION 1										
ENG <i>Larry Natch</i> DATE 26 JULY 76		PROD <i>J. St...</i> DATE 26 JULY 76		ISSUED SECT. 1										
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION												
1	D-IA-7012417-0	CHASSIS, BAB-C												
2	7014167-00	TRANSFORMER ASSY (60HZ)												
3	7014167-01	TRANSFORMER ASSY (50HZ)												
4	9007651	WASHER, #10 EXT TOOTH LOCK												
5	9006668	WASHER, FLT, .625 X .200 I.D. X .032 THK												
6	9006565	NUT, #10-32 KEPS												
7	D-AD-7012375-00	LINE SET ASSY (115V)												
8	D-AD-7012375-01	LINE SET ASSY (230V)												
9	9006020-01	SCR, PHL PAN HD #6-32 X .25 LG.												
10	9007649	WASHER, #6 EXT TOOTH LOCK												
11	9007613	GROMMET, .187 I.D. (BLK)												
12	D-IA-7014181-0-0	HARNASS, FAN												
13	9007031	CABLE TIE												
14	1213013	FAN, 5 IN., 135 CFM, 115 VAC												
15	9006026-02	SCR, PHL FLT HD #6-32 X .750 LG.												
16	9006560	NUT, KEP 6-32												
17	1213266-01	GUARD, FINGER												
18	9908196	RECEPTACLE, 1/4 TURN, .50 WIDE												
19	1212405-08	CARD GUIDE, FULL LENGTH (NATURAL)												
20	1212405-09	CARD GUIDE, FULL LENGTH (MAGENTA)												
21	1209224	LATCH MOLDING												
22	9006075-02	SCR, PHL FLT HD #10-32 X .75LG.												
TITLE BAB-C UNIT ASSEMBLY		ASSY NO. B-DD-BAB-C	SIZE A	CODE PL	NUMBER BAB-C-0					REV K	ECO NO.			
DEC FORM DEC 16-(325)-1031-N870 DRA 110		SHEET 1 OF 3	DIST.		ML									

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QTY	REF	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	R7	RES, 1K 1/4W 5%	1300365-00	48
2		EYELET	9000024-07	47
1		SPRING, RELAY HOLDDOWN	1216422-00	46
4		SCR, PHL PAN HD 8-32X 5/16	9006036-01	45
12		SCR, SOCKET HD 8-32X 5/8	9006339-08	44
1		DECAL "KT8A COMPATIBLE"	3615653-00	43
A/R		WIRE, 30AWG, SOLID, GRN	9105790-55	42
A/R		WIRE, 18 AWG, STRANDED, GRN	9107360-55	41
A/R		WIRE, 22 AWG, STRANDED, GRN	9107350-55	40
REF		"OMNIBUS" SPEC	A-5P-OMNIB-US	39
REF		MODULE ECO HISTORY	6-MH-H9194-0-6	38
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-H9194-0-5	37
REF		X-Y COORDINATE HOLE LOCATION	K-CD-H9194-0-4	36
REF		CIRCUIT SCHEMATIC	D-CS-H9194-0-1	35
A/R		WIRE, 22AWG, GREEN	9107685-55	34
4		WASHER, FLAT # 8	9006660	33
4		WASHER, INTL TOOTH # 8	9006634	32
10		SPACER, #8-32X.25AFX.56	9009602	31
6		SPACER, #8-32X.25AFX.62	9009629	30
4		SPACER, #8-32X.25AFX.1.25	9009603	29
12		SCR, SLEEPS #8-32X.01	9009070	28
2		SCR, SOC. HD #8-32X1.25	9008471-08	27
8		SCR, PHL PAN HD #8-32X.25	9006035-01	26
3		TERMINAL, SINGLE MALE TAB	9008219	25
5		EYELET	9009000	24
2		EYELET	9006746	23
1	J18	CONN, PC, .4 PIN	1211342-04	22
2	J15, J19	CONN, PC, 6 PIN	1211342-06	21
2	J16, J17	CONN, PC, 12 PIN	1211342-12	20
2	J7, J8	CONN BLK, 72 PIN SLTD	1211425-02	19
5	J9 -> J13	CONN BLK, 36 PIN SLTD	1211029	18
6	J1 -> J6	CONN BLK, 288 PIN SLTD	1210258-01	17
1	J21	SOCKET, IC, 14 PIN	1211813-01	16
2	J14, J20	SOCKET, IC, 16 PIN	1211813-02	15
6		CARD GUIDE, CENTER	1210698	14
2		CLIP, FUSE	9007203	13
1		SOCKET, RELAY	1210684	12
1	T1	TRANSFORMER	1611646	11
1	F1	FUSE, 3/8 A, S.B	9007207	10
1	K1	RELAY, 3 POLE, 6V, 10 AMP	1210683-01	9
1	E1	QUAD CORE DRIVER 4Ø11	1511102	8
1	E2	DIODE ARRAY	C-1A-7010866-0-0	7
1	R6	RES, 10 Ω, 2W, 10%	1300172	6
2	R4, R5	RES, 20 Ω, 10W, 1%	1305416	5
3	R1, R2, R3	RES, 2.2K 1/4W, 5%	1300417	4
1	C2	CAP, 0.2 μF, 100V, DUAL DISC	1010767	3
1	C1	CAP 930 pf 30V	1010509-00	2
1		ETCHED CIRCUIT BOARD	5011505	1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: ++

FINISH: ++

DRN: [Signature] 1/20/75

CHK'D: [Signature] 2-18-75

ENG: [Signature] 2-27-75

PROJ. ENR: [Signature] 2-27-75

PRGR: [Signature] 2-27-75

FIRST USED ON: H9300

TITLE: CONNECTOR BLOCK ASS'Y

SIZE CODE: DAD

NUMBER: H9194-0-0

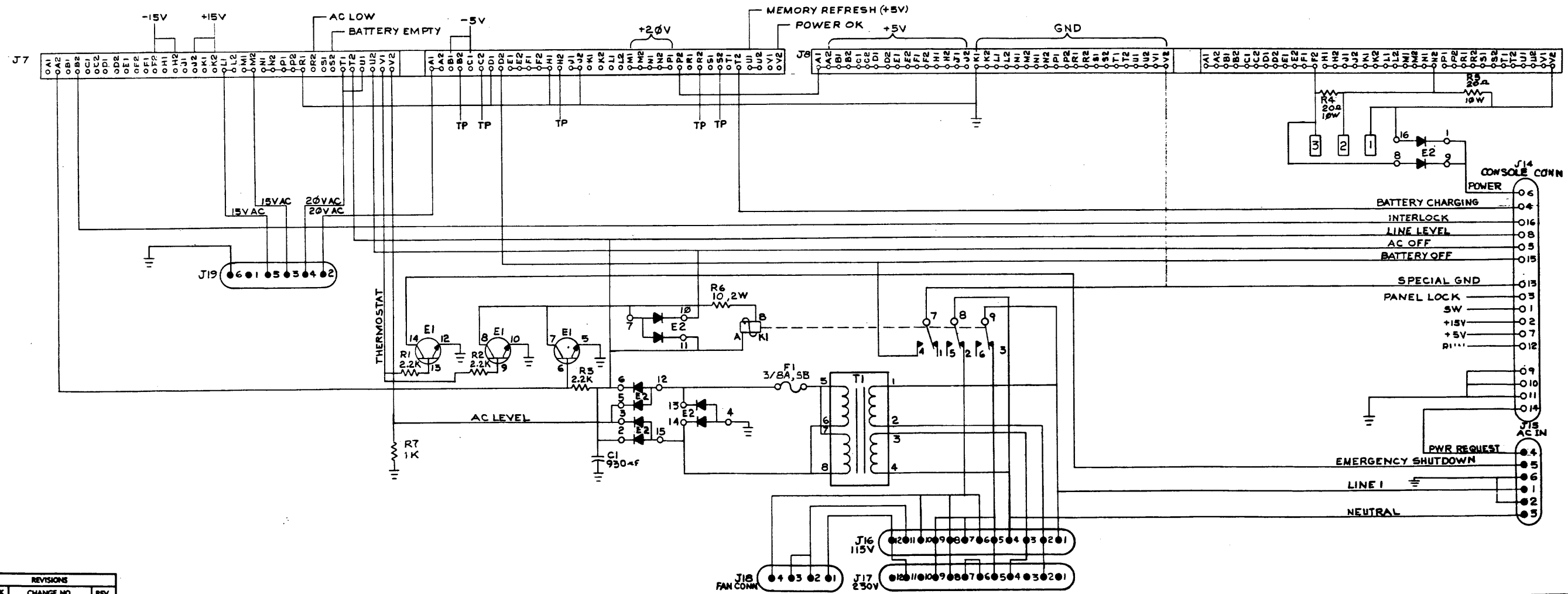
REV: H

SHEET 1 OF 1

REV.	DATE	BY	CHK'D	DESCRIPTION
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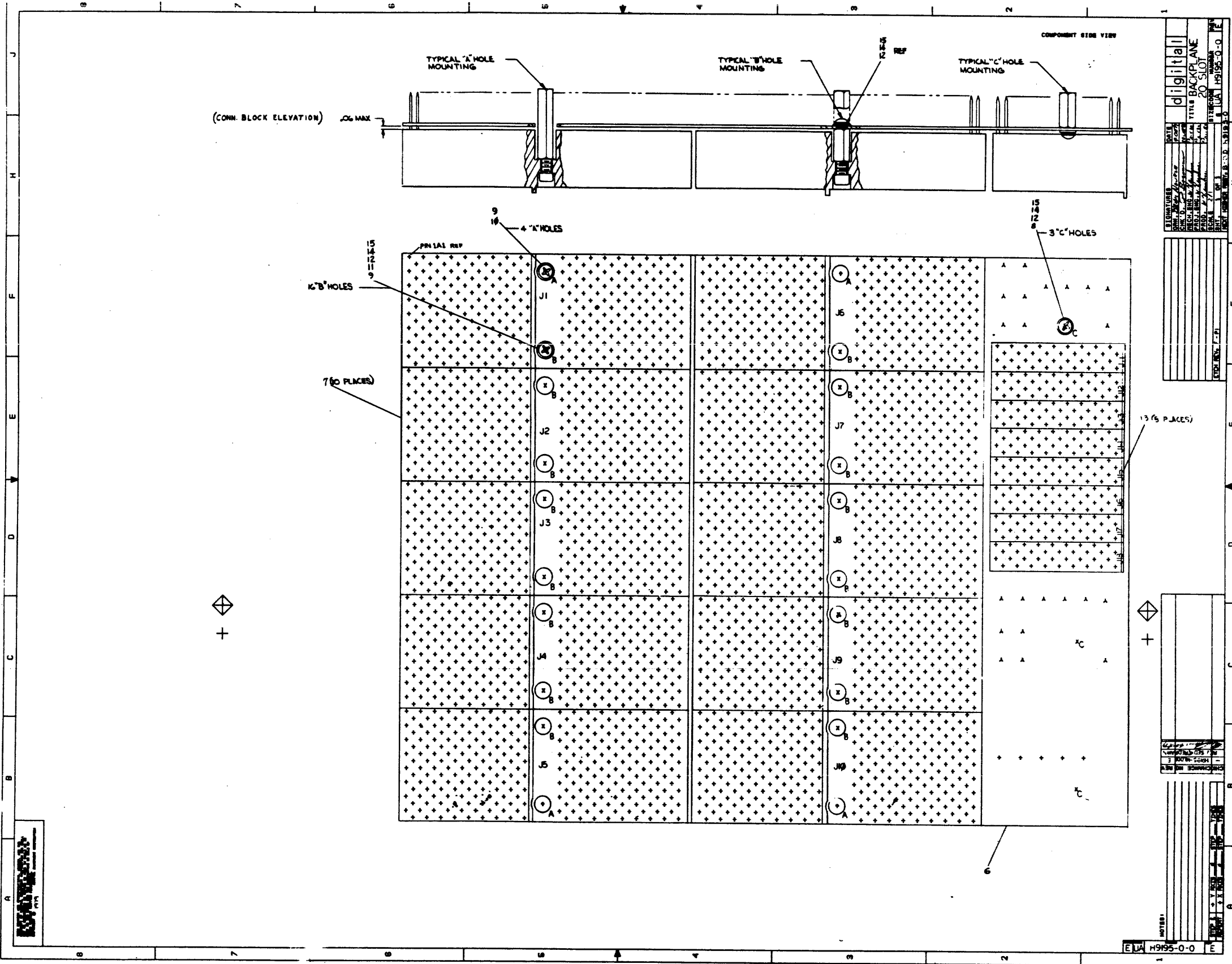
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PIN	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2
A	A01 = +5V ALL OTHERS = TP	+5V	B02 & B03 = BATTERY EMPTY, ALL OTHERS = TP	+5V	C01 = +5V ALL OTHERS = TP	+5V	D02 & D03 = PANEL LOCK, ALL OTHERS = TP	+15V	TEST POINT	+20V
B	TEST POINT	-15V	B02 & B03 = AC LOW, ALL OTHERS = TP	-15V	TEST POINT	-15V	TEST POINT	-15V	TEST POINT	BANK SEL 0
C	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
D	MA0 L	EMA0 L	MA4 L	INT STROBE H	I/O PAUSE L	TP1 H	NAB L	IR0 L	TEST POINT	BANK SEL 1
E	MA1 L	EMA1 L	MA5 L	BREAK IN PROG L	C0 L	TP2 H	MA9 L	IR1 L	TEST POINT	+20V
F	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
H	MA2 L	EMA2 L	MA6 L	MA, MS, LOAD CONT L	C1 L	TP3 H	MA10 L	IR2 L	TEST POINT	MEMORY REFRESH
J	MA3 L	MEM START L	MA7 L	OVERFLOW L	C2 L	TP4 H	MA11 L	F L	TEST POINT	MEMORY REFRESH
K	MD0 L	MDDIR L	MD4 L	BREAK DATA CONT L	BUSSTROBE H	TS1 L	MD8 L	D L	TEST POINT	+20V
L	MD1 L	SOURCE H	MD5 L	BREAK CYCLE L	INTERNAL I/O L	TS2 L	MD9 L	E L	TEST POINT	BANK SEL 2
M	MD2 L	STROBE H	MD6 L	LOAD ADD ENABLE L	NOT LAST XFER L	TS3 L	MD10 L	USER MODEL	TEST POINT	-5V
N	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
P	MD3 L	INHIBIT H	MD7 L	INT IN PROG H	INT REQUEST L	TS4 L	MD11 L	F SET L	TEST POINT	+20V
R	DATA 0 L	RETURN H	DATA 4 L	NTS STALL L	INITIALIZE H	LINK DATA L	DATA 8 L	PULSE LAH	TEST POINT	BANK SEL 3
S	DATA 1 L	WRITE H	DATA 5 L	RES	SKIP L	LINKLOAD L	DATA 9 L	STOP L	UNUSED	UNUSED
T	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	JUMPER	GROUND
U	DATA 2 L	ROM ADDRESS L	DATA 6 L	RUN L	CPMA DISABLE L	IND 1 L	DATA 10 L	KEY CONTROL L	UNUSED	UNUSED
V	DATA 3 L	LINK L	DATA 7 L	POWER OK H	MS, IR DISABLE L	IND 2 L	DATA 11 L	SW	UNUSED	UNUSED



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CONN BLOCK ASSY	SIZE CODE	DCS	NUMBER	H9194-0-1	REV.	H
SCALE	1:1	SHEET	2	OF	2	DIST.	



(CONN. BLOCK ELEVATION)

0.06 MAX

TYPICAL "A" HOLE MOUNTING

TYPICAL "B" HOLE MOUNTING

TYPICAL "C" HOLE MOUNTING

COMPONENT SIDE VIEW

15
14
12
11
9
4 "X" HOLES
16
9
16
15
14
12
11
9
7 (6 PLACES)

15
14
12
9
3 "C" HOLES

13 (5 PLACES)

digital
TITLE BACKPLANE
20 SLOT

DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	
PROJECT NO.	
REV.	
REV. NO.	
REV. DATE	
REV. BY	

REV.	
REV. NO.	
REV. DATE	
REV. BY	

CONFORMANCE AND REV

REV.	
REV. NO.	
REV. DATE	
REV. BY	

EUA H9195-0-0

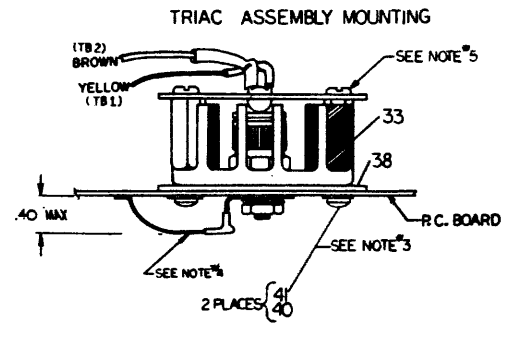
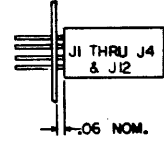
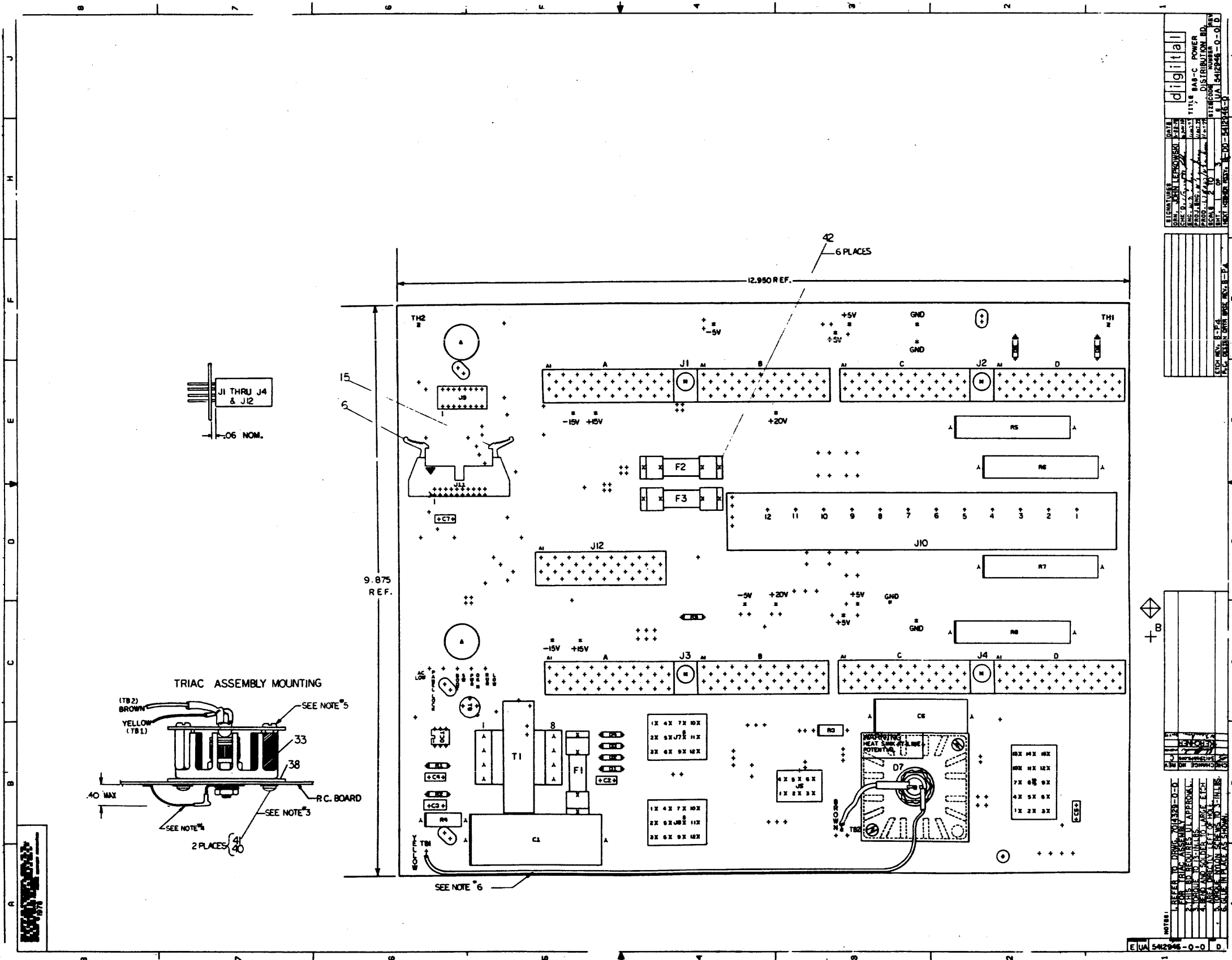
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1-0-5616H SO 2

PIN	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2
A	A01 = +5V ALL OTHERS = TP	+5V	B02 & B03 = BATTERY EMPTY. ALL OTHERS = TP	+5V	C01 = +5V, ALL OTHERS = TP	+5V	D02 & D03 = PANEL LOCK. ALL OTHERS = TP	+15V	TEST POINT	+20V
B	TEST POINT	-15V	B02 & B03 = AC LOW. ALL OTHERS = TP	-15V	TEST POINT	-15V	TEST POINT	-15V	TEST POINT	BANK SEL 0
C	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
D	MA0 L	EMA0 L	MA4 L	INT STROBE H	I/O PAUSE L	TP 1 H	MA8 L	IR0 L	TEST POINT	BANK SEL 1
E	MA1 L	EMA1 L	MA5 L	BREAK IN PROG L	C0 L	TP 2 H	MA9 L	IR1 L	TEST POINT	+20V
F	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
H	MA2 L	EMA2 L	MAG L	MA, MS, LOAD CONT L	C1 L	TP3 H	MA10 L	IR2 L	TEST POINT	MEMORY REFRESH
J	MA3 L	MEM START L	MAT L	OVERFLOW L	C2 L	TP4 H	MA11 L	F L	TEST POINT	MEMORY REFRESH
K	MD0 L	MD DIR L	MD4 L	BREAK DATA CONT L	BUS STROBE L	TS 1 L	MD 8 L	D L	TEST POINT	+20V
L	MD1 L	SOURCE H	MDS L	BREAK CYCLE L	INTERNAL I/O L	TS 2 L	MD 9 L	E L	TEST POINT	BANK SEL 2
M	MD2 L	STROBE H	MD6 L	LOAD ADD ENABLE L	NOT LAST XFER L	TS3 L	MD10 L	USER MODE L	TEST POINT	-5V
N	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
P	MD3 L	INHIBIT H	MD7 L	INT IN PROG H	INT REQUEST L	TS4 L	MD11 L	F SET L	TEST POINT	+20V
R	DATA 7 L	RETURN H	DATA 4 L	NTS STALL L	INITIALIZE H	LINK DATA L	DATA 8 L	PULSE LA H	TEST POINT	BANK SEL 3
S	DATA 1 L	WRITE H	DATA 5 L	RES 2	SKIP L	LINK LOAD L	DATA 9 L	STOP L	UNUSED	UNUSED
T	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	JUMPER	GROUND
U	DATA 2 L	ROM ADDRESS L	DATA 6 L	RUN L	CPMA DISABLE L	IND 1 L	DATA 10 L	KEY CONTROL L		UNUSED
V	DATA 3 L	LINK L	DATA 7 L	POWER OK H	MS, IR DISABLE L	IND 2 L	DATA 11 L	SW	UNUSED	UNUSED

REVISIONS
 1 CHANGE NO. 1
 H9195-0-1
 W. K. RECHNER
 1/3/76

DRN: R. Koppal 2-16-76	FIRST USED ON: BA8-C	DIGITAL
CHK: [Signature]	TITLE: 20 SLOT BACK PLANE	
ENG: [Signature]	SIZE CODE: DCS	NUMBER: H9195-0-1
PROJ. ENG: [Signature]	SCALE: ++	REV: E
PROD: [Signature]	SHEET: 1	OF: 1
NEXT HIGHER ASSY:	DIST:	



DATE	11/11/68
DESIGNED BY	JOHN LEPKOWSKI
CHK'D BY	W. J. ...
PREPARED BY	...
PROJ. NO.	...
REV.	...
SCALE	...
WORK CENTER	...
PLC. DESIG. ORG. WBS. NO.	E-PA
TITLE	DIGITAL BAP-C POWER DISTRIBUTION BD.
PROJECT NO.	5412946-0-0
REV.	...

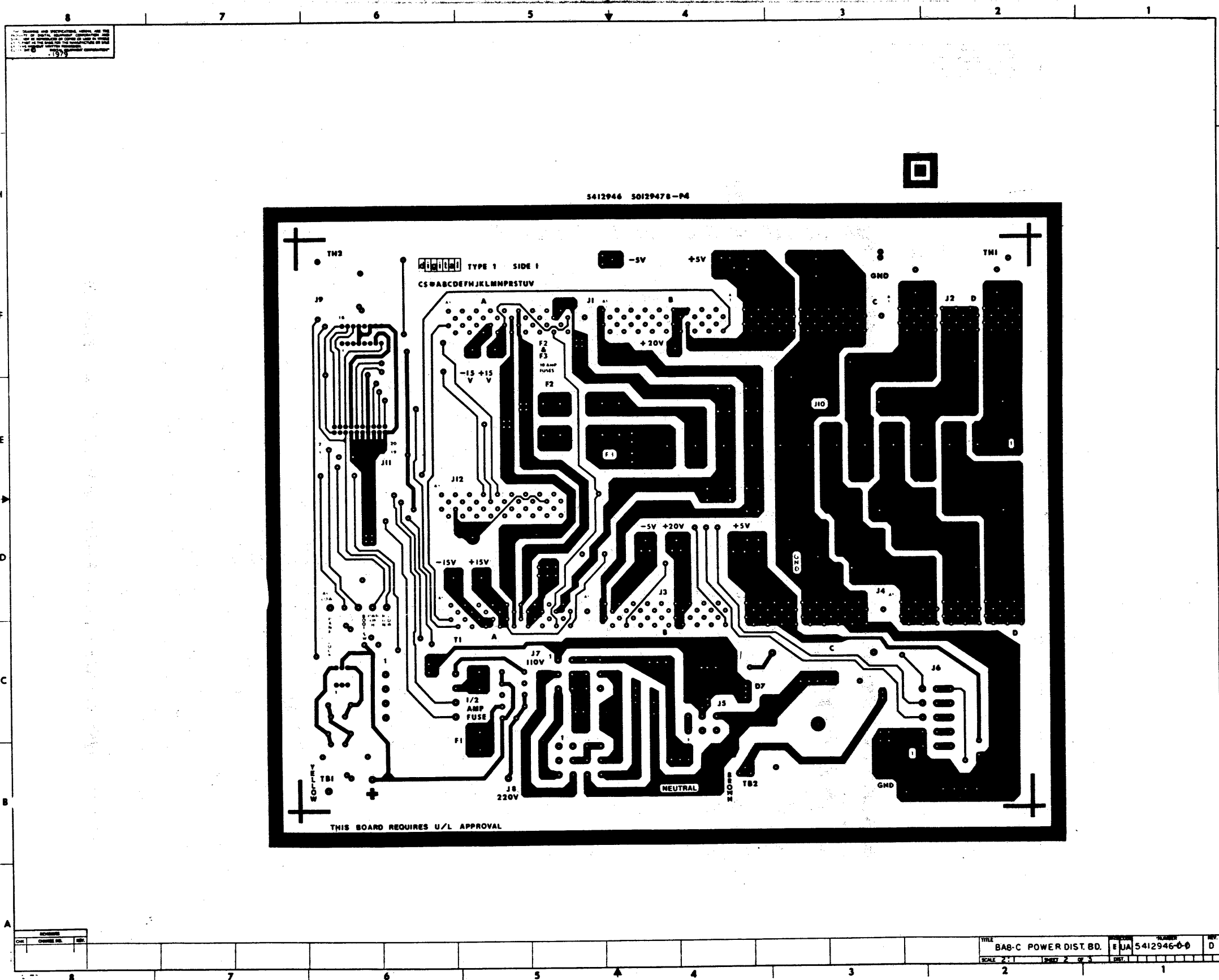
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NOTES:

1. REFER TO DRAWING 5412946-0-0
2. THIS BOARD REQUIRES FULL APPROVAL
3. BOARD IS TO BE MOUNTED ON A R.C. BOARD
4. BOARD IS TO BE MOUNTED TO LARGE ETCH
5. BOARD IS TO BE MOUNTED TO LARGE ETCH
6. BOARD IS TO BE MOUNTED TO LARGE ETCH

EUA 5412946-0-0



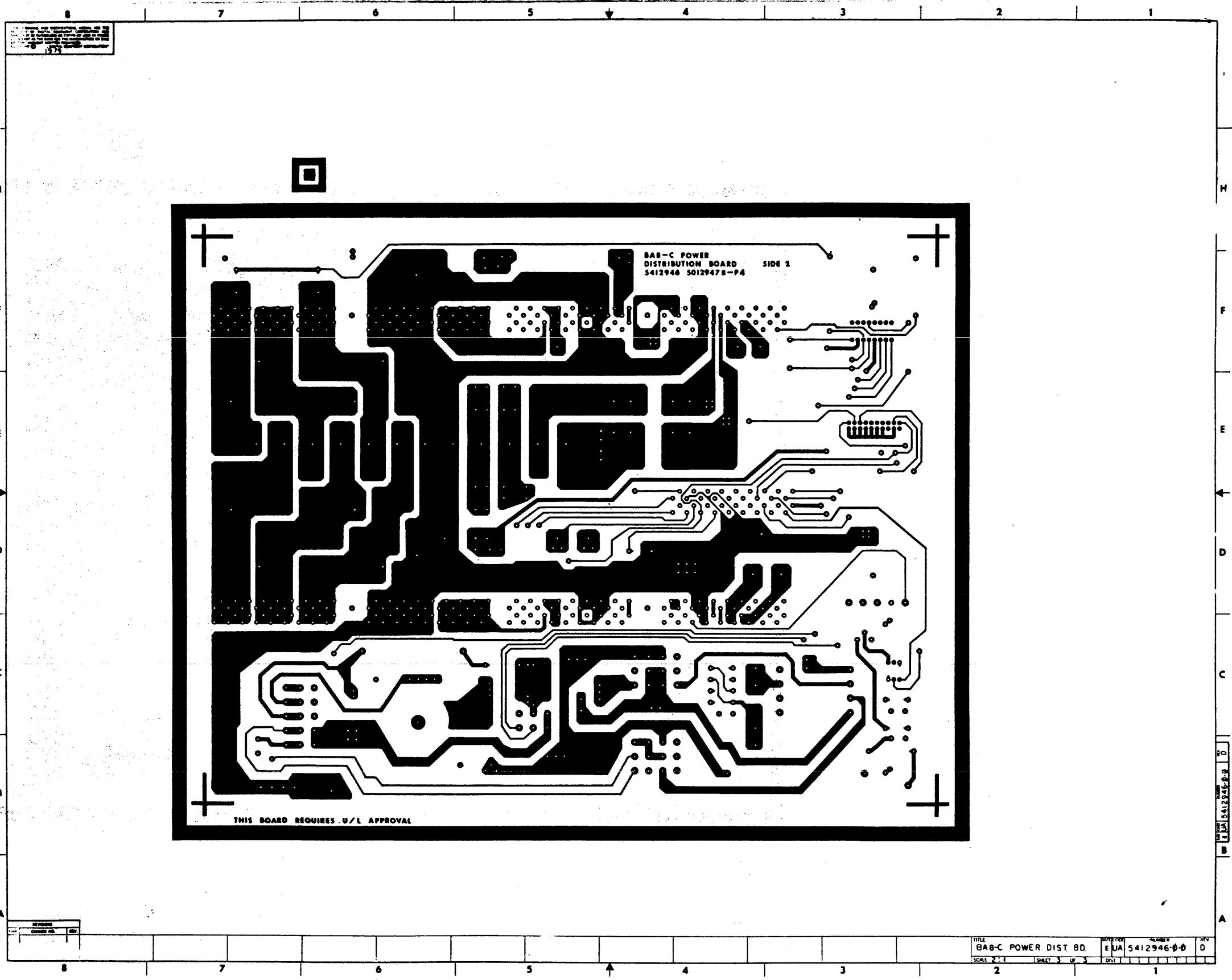
1. Dimensions and specifications shown on this drawing are to be used for the purpose of manufacturing and assembly only. They do not constitute a contract. The manufacturer shall be responsible for the design and construction of the product.

5412946 5012947E-P4

THIS BOARD REQUIRES U/L APPROVAL

REV.	DATE	BY	CHKD.

TITLE	BAB-C POWER DIST. BD.	REV.	D
SCALE	2:1	DRY	2 OF 3
NO.	EJA 5412946-00	REV.	



1. THIS BOARD REQUIRES U/L APPROVAL
 2. THIS BOARD REQUIRES U/L APPROVAL
 3. THIS BOARD REQUIRES U/L APPROVAL
 4. THIS BOARD REQUIRES U/L APPROVAL
 5. THIS BOARD REQUIRES U/L APPROVAL
 6. THIS BOARD REQUIRES U/L APPROVAL
 7. THIS BOARD REQUIRES U/L APPROVAL
 8. THIS BOARD REQUIRES U/L APPROVAL

BAB-C POWER
 DISTRIBUTION BOARD SIDE 2
 5412946 50129478-P4

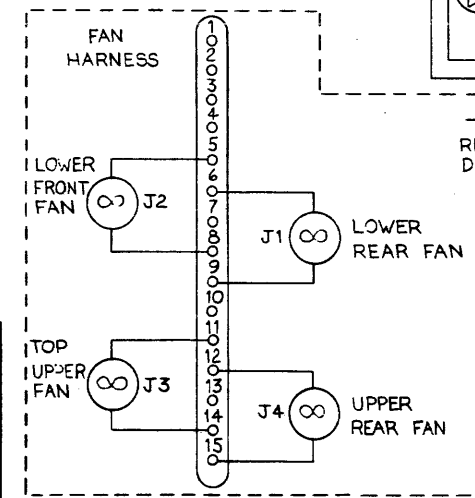
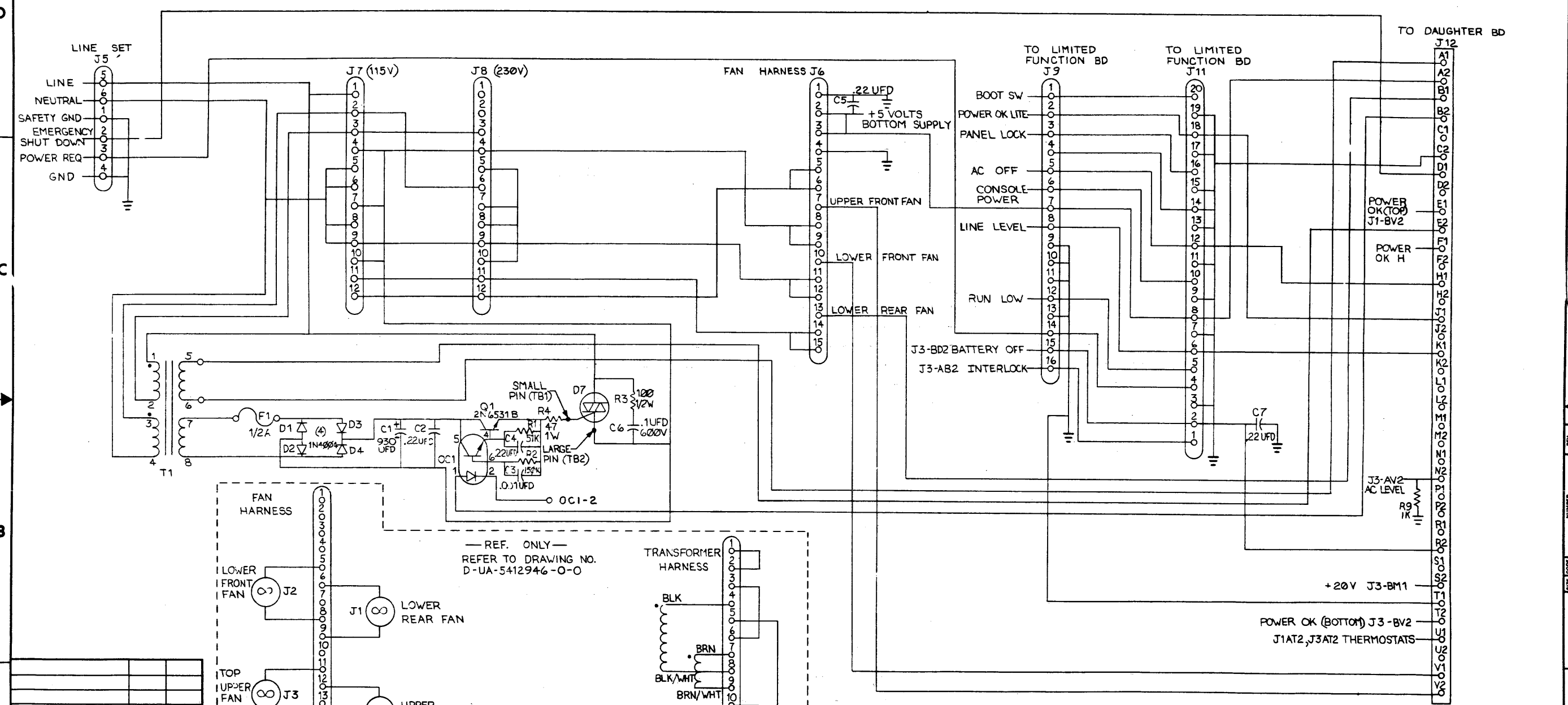
THIS BOARD REQUIRES U/L APPROVAL

TITLE	BAB-C POWER DIST BD	DRAWN	EJA	NUMBER	5412946-00	REV	D
SCALE	2:1	SHEET	3	OF	3	DATE	
DES							

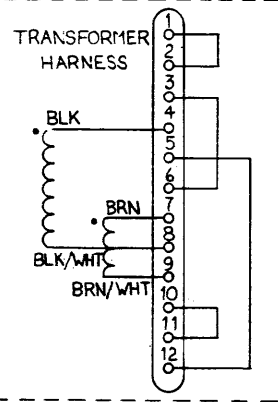
5412946-P4 0

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NOTES:



— REF. ONLY —
REFER TO DRAWING NO.
D-UA-5412946-0-0



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

W. Kerchner 11/07/77	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner
W. Kerchner	W. Kerchner	11/16/77	W. Kerchner

FIRST USED ON OPTION MODEL		QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
BA8-C			ETCH BOARD REV.	B-P4		
PARTS LIST						
DRN.	D. Zwickler	DATE	7-19-77			
CHK'D.	W. Kerchner	DATE	23 MAY 77			
ENG.	C. DeLucca	DATE	5-6-77			
PROJ. ENG.	A. DeLucca	DATE	5-6-77			
PROD.	J. J. Kone	DATE	7-2-77			
NEXT HIGHER ASSY				5412946-0-0		
SCALE	1 OF 2		SIZE CODE		NUMBER	
SHEET	1 OF 2		D CS		5412946-0-1	
SEMICONDUCTOR CONVERSION CHART						



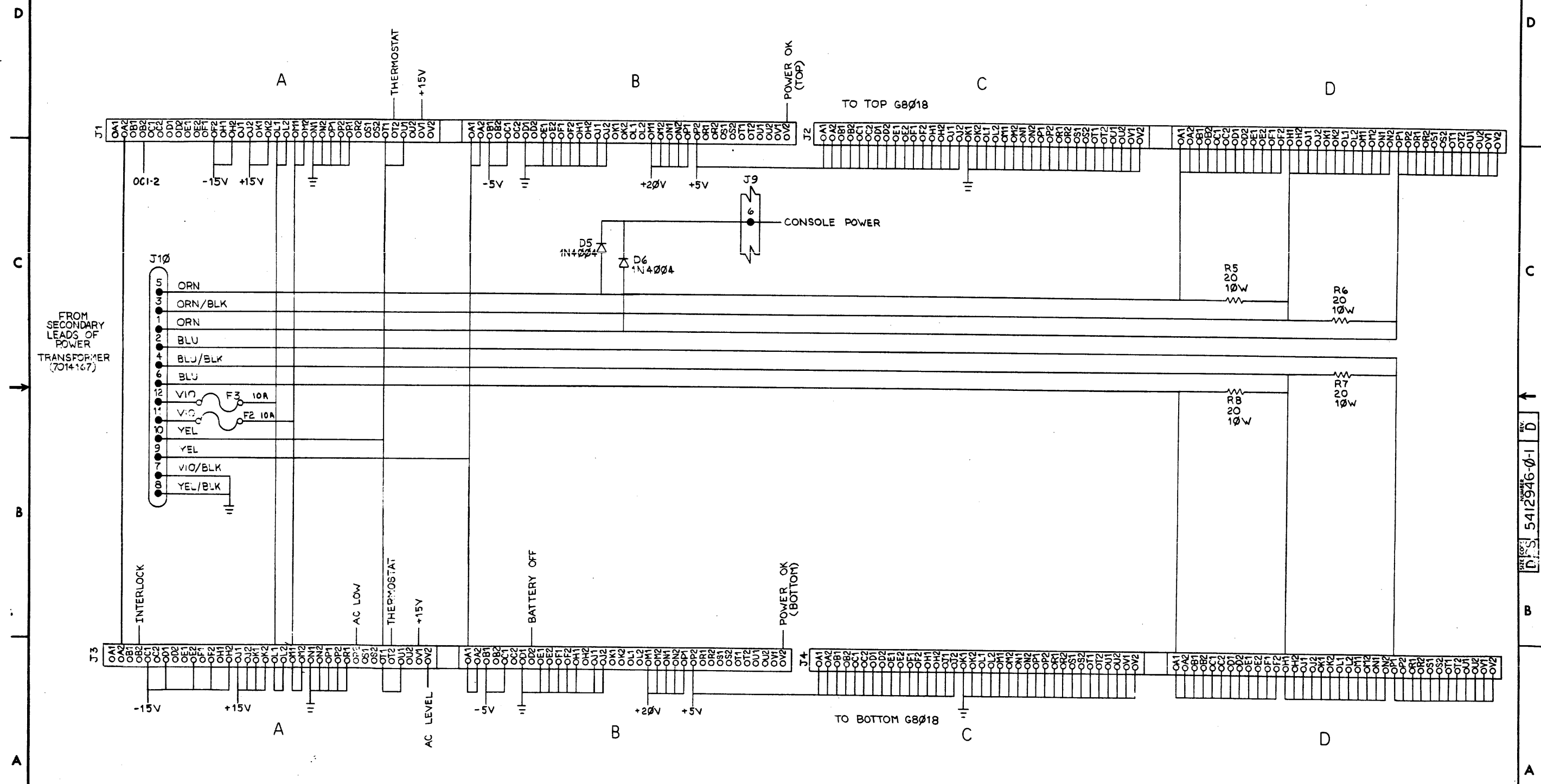
TITLE
BA8-C POWER DISTRIBUTION BOARD

SIZE CODE
D CS

NUMBER
5412946-0-1

REV.
D

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	BA8-C POWER DISTRIBUTION BOARD	SIZE CODE	D CS	NUMBER	5412946-0-1	REV.	D
SCALE	1/1	SHEET	2 OF 2	DIST.			

REV. D 5412946-0-1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1		E-MD-5012947-0-0	5012947-00	B88C POWER DISTRIBUTION BOARD	1	
2			1000043-00	1000.0 MHF 250V 20% Y5F DISC	1	C3
3			1000033-00	.1 MFD 600V 10% MYLR	1	C6
4			1010509-00	.930 MFD 30V +75-10% AL EL	1	C1
5			1105796-00	1N 4004 PIV=400 I= 1A D041 SP	6	D1-D6
6			1209941-04	HEADER RT ANGLE, RIGHT	1	
7			1211425-00	CONN, CARD 72PIN SLOTTED DOUBLE	4	J1-J4
8			1211029-00	CONN, CARD 36PIN SLOTTED	1	J12
9			1211813-02	SKT, IC 16PIN DIP GOLD PLATE	1	J9
10			1209941-06	HEADER, 100 20POS RT ANGLE	1	J11
11			1211905-01	TERM BLOCK 12POS 7/16 SPACING	1	J10
12			1212297-09	MATE-N-LOK 15PIN UNIV HEADER	1	J6
13			1212297-05	MATE-N-LOK 6PIN UNIV HEADER	1	J5
14			1212297-08	MATE-N-LOK 12PIN UNIV HEADER	2	J7, J8
15			1209941-03	HEADER RT ANGLE LEFT L	1	
16			1302199-00	47.0 1.0 W 5.0 % CC	1	R4
17			1300228-00	100.0 .50 W 5.0 % CC	1	R3
18			1304839-00	51.0 K .25 W 5.0 % CC	1	R1
19			1305416-00	20.0 10.0 W 1.0 % WM	4	R5-R8
20			1509338-00	DEC6531B NPN 310MW SI 40 90 P	1	Q1
21			1914194-00	OPTP-COUPLED ISOLATOR	1	OC1
22			9006707-00	*** THIS ITEM IS NOT USED ***	-	
23			1613282-00	XFMR P=AB S=14.53.12A	1	T1
24			9006023-01	*** THIS ITEM IS NOT USED ***	-	
25			9008185-00	*** THIS ITEM IS NOT USED ***	-	
26			9007203-00	*** THIS ITEM IS NOT USED ***	-	
27			9007208-00	FUSE, REG BLO 1/2 A, 250V GLASS	1	F1
28			9009000-00	*** THIS ITEM IS NOT USED ***	-	
29			9008838-00	FUSE, REG BLO 10 A, 32V GLASS	2	F2, F3
30			9107560-01	*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY		BASIC PART NO: 5412946		DRN:	W.E.	DATE:	D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	J.P. LEPKOWSKI	DATE:	TITLE	PARTS LIST	
ER	00003	C	SECTION VARIATION INDEX			09-JUN-78	B88-C POWER DISTRIBUTION BOARD		
WK	5412946-ML004	D	(A) 00			09-JUN-78			
			(B)	DES.ENG:	AL DELUCA	09-JUN-78			
			(C)	RESP.ENG.:	AL DELUCA	09-JUN-78			
			(D)	MFG.ENG.:	J.V. KANE	09-JUN-78	K	PL	5412946-0-DBP
			(E)	ASSEMBLY NUMBER:	E-UA-5412946-0-0		TOP DOCUMENT NUMBER:	BAB-C	FILE NAME: 208050.PLS
			(F)						EDIT #: 6
			(G)						
			(H)						
			(I)						
			(J)						
			(K)						
			(L)						
			(M)						
			(N)						

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AUTOMATED BY PRTLST.2D(16)

PARTS LIST

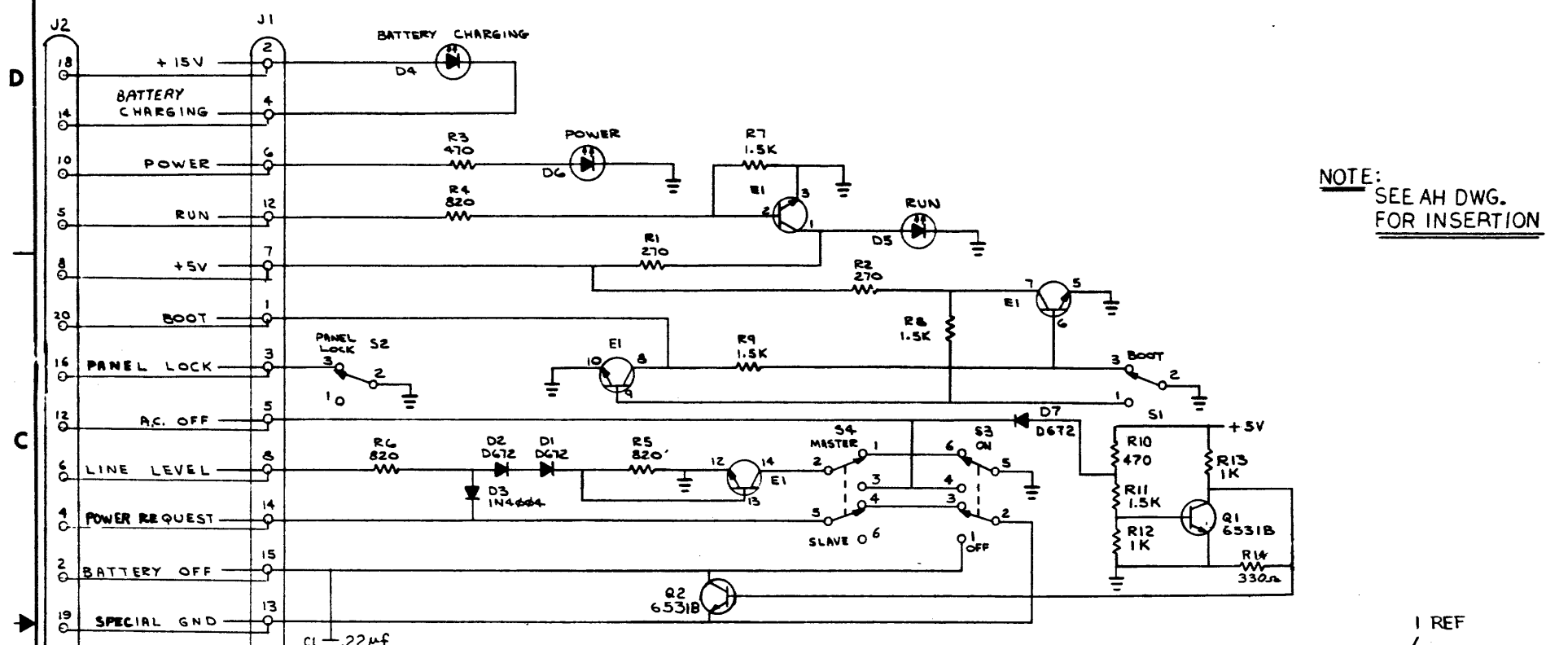
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1210929-01	*** THIS ITEM IS NOT USED ***	-	
32	32		1302396-00	150.0 K .25 W 5.0 % CC	1	R2
33	33		7014329-00	TRIAC ASSY	1	D7
34	34		1010274-00	.22 MFD 50V +80-20% Z5U CER	4	C2,C4,C5,C7
35	35		9105740-55	*** THIS ITEM IS NOT USED ***	-	
36	36		1300365-00	1.0 K .25 W 5.0 % CC	1	R9
37	37		9107256-11	*** THIS ITEM IS NOT USED ***	-	
38	38		7420187-00	PLATE LABEL	1	
39	39		9006431-0E	*** THIS ITEM IS NOT USED ***	-	
40	40		9007801-00	WASHER, LOCK, S.S. #6	2	
41	41		9006024-01	SCREW, PAN, PHIL 6-32X 1/2 SS	2	
42	42		9009513-03	CLIP, FUSE, WITH STOP, FOR PC BO	6	

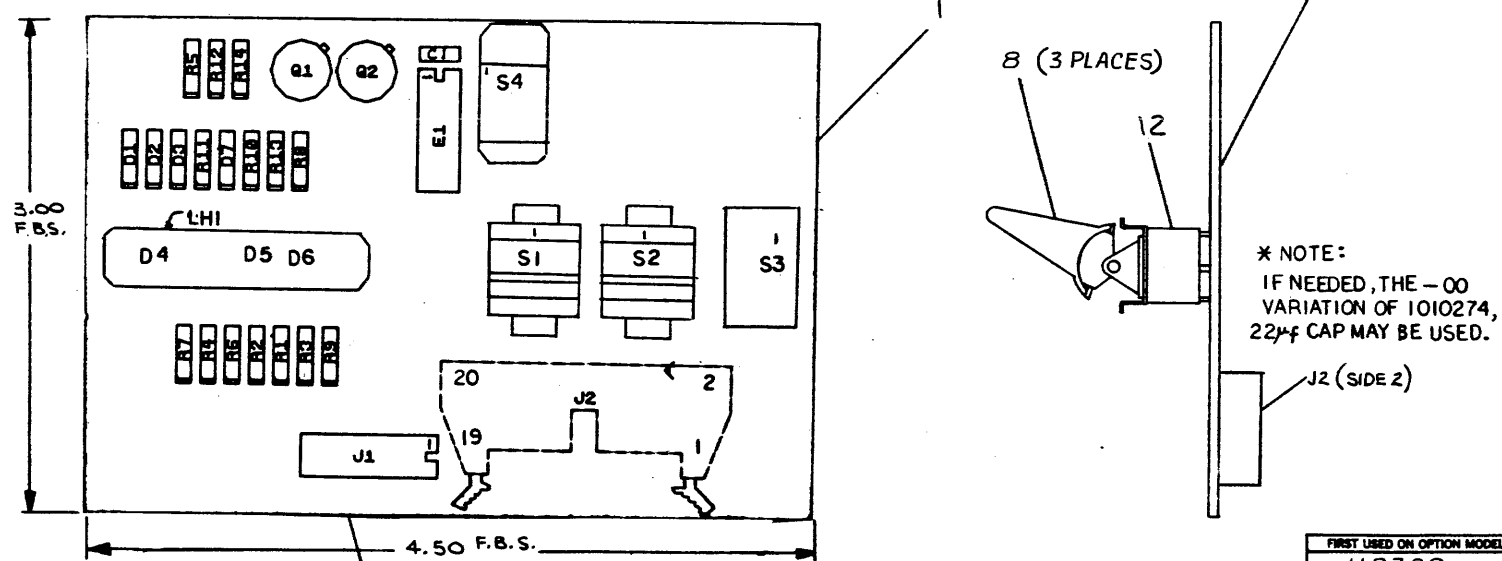
D	I	G	I	T	A	L	TITLE	BAB-C POWER DISTRIBUTION BOARD	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5412946-0-DBP	D

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NOTES:



NOTE: SEE AH DWG. FOR INSERTION



REF	X-Y COORDINATE HOLE LOCATION	K-G-5411507-0-4	
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-5411507-0-5	2
REF	MODULE ECO HISTORY	B-MH-5411507-0-6	3
1	ETCHED CIRCUIT BOARD	5011506	4
3	D1, D2, D7	DIODE, D672	1105275 5
1	D3	DIODE, 1N4004	1105796 6
3	D4, D5, D6	DIODE, LIGHT EMITTING	1110324 7
3		KNOB, DARK GRAY (#47)	1210786-01 8
2	S1, S2	SWITCH, TOGGLE, SPDT.	1210840 9
1	S3	SWITCH, SLIDE, DPST.	1210919 10
1	LH1	LED HOLDER, TRIPLE	1210940-02 11
1	S3	SWITCH, TOGGLE, D.P.D.T	1212010 12
2	R3, R10	RES. 470, 1/4W 5%	1300316 13
4	R7, R8, R9, R11	RES. 1.5K, 1/4W 5%	1300391 14
3	R4, R5, R6	RES 820, 1/4W, 5%	1301775 15
2	R1, R2	RES 270, 1/4W, 5%	1301972 16
1	E1	QUAD CORE DRIVER, 4011	1511102-00 17
1	J1	SOCKET, 16 PIN	1211813-02 18
2		SCR, SLOTTED PAN HD, SELF TMR #G-25	9008230-01 19
2	R12, R13	RES. 1K, 1/4W 5%	1300365 20
2	Q1, Q2	TRAN. DEC 6531B	1509338 21
1	R14	RES 330, 1/4W, 5%	1300295 22
2		RYELET FUNNEL FLANGE	9006796 23
2		WIRE, #27 GREEN SOLID	910280-01 24
1	J2	RT. ANGLE HEADER, 20 PIN	1209941-06 25
1		RT. ANGLE HEADER, LEFT LATCH	1209941-03 26
1		RT. ANGLE HEADER, RT. LATCH	1209941-04 27
1	C1	* CAP., .22μf, 50V, 20%	1010274-01 28

* NOTE: IF NEEDED, THE -00 VARIATION OF 1010274, 22μf CAP MAY BE USED.

IC TYPE	QND	+3V

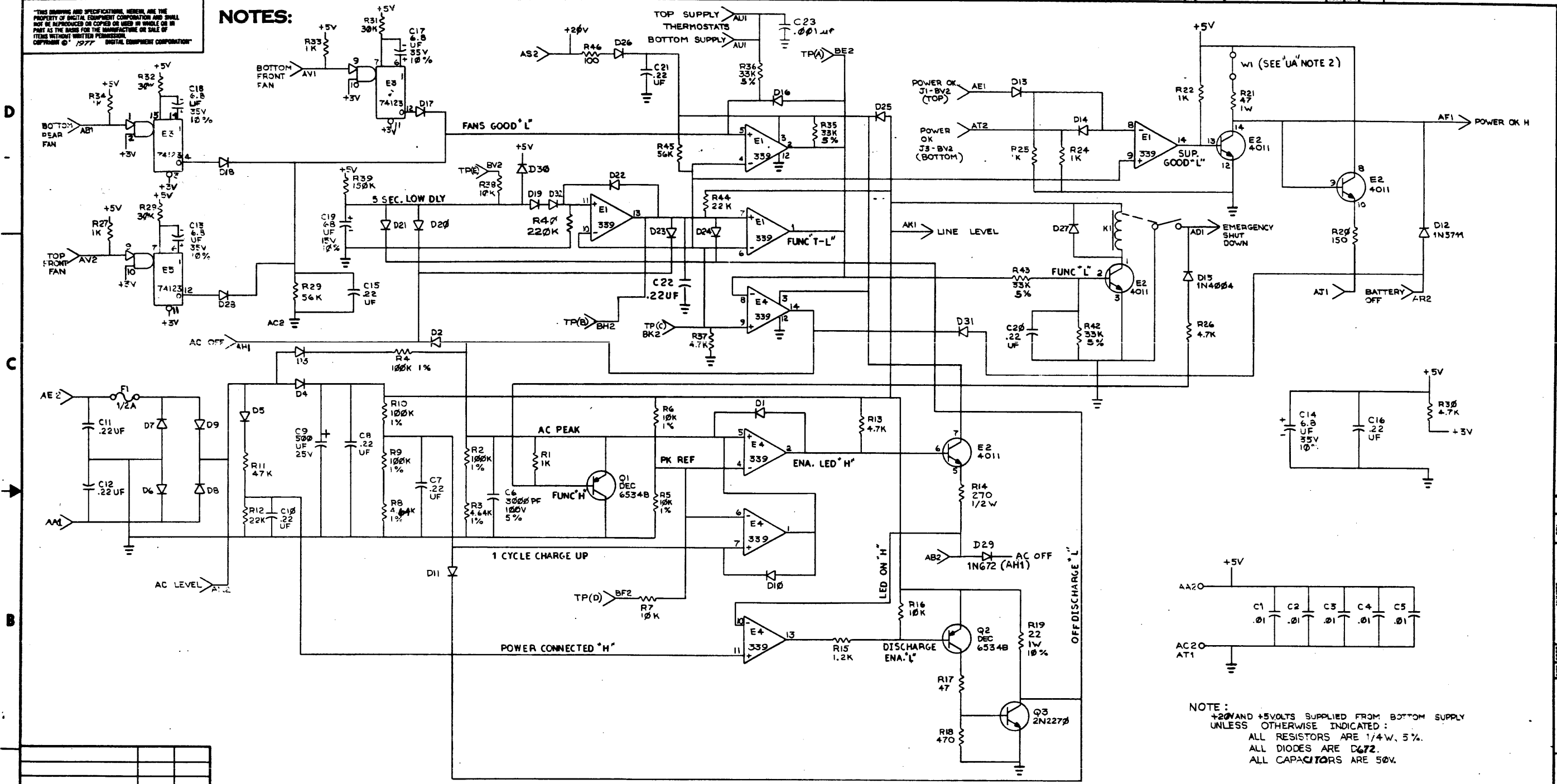
QND AND 3V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

FIRST USED ON OPTION MODEL H 9300			
ETCH BOARD REV. C			
PARTS LIST			
DRW. X. D. 1-27-75	DATE	digital	
CHKD. 1-29-75	DATE	TITLE LIMITED FUNCTION BOARD	
ENG. 2-27-75	DATE	SIZE CODE NUMBER	
PROF. 2-27-75	DATE	DCS 5411507-0-1	
FRD. 3-7-75	DATE	REV. F	
NEXT HIGHER ASST D-AD-7610835-0-0		SCALE	
D-AD-7610835-0-0		SEMICONDUCTOR CONVERSION CHART	
DRW. X. D. 1-27-75	DATE	SHEET 1 OF 1	
CHKD. 1-29-75	DATE		
ENG. 2-27-75	DATE		
PROF. 2-27-75	DATE		
FRD. 3-7-75	DATE		

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NOTES:



NOTE:
+20V AND +5V SUPPLIED FROM BOTTOM SUPPLY UNLESS OTHERWISE INDICATED:
ALL RESISTORS ARE 1/4W, 5%.
ALL DIODES ARE D672.
ALL CAPACITORS ARE 50V.

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

DESIGNED BY	D. FRENIERE
CHECKED BY	E. FERNAND
ENG. BY	J. L. JONES
PROJ. ENG.	A. BUCKNER
PROD.	J. V. NEW
DATE	3 MAY 77
DATE	11/11/77
DATE	12-8-77
DATE	1-6-77
DATE	7/21/77

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.								
8/A	ETCH BOARD REV. B	PARTS LIST										
<table border="1"> <tr> <td>DEC NO.</td> <td>EIA NO.</td> <td>DEC NO.</td> <td>EIA NO.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>					DEC NO.	EIA NO.	DEC NO.	EIA NO.				
DEC NO.	EIA NO.	DEC NO.	EIA NO.									
<table border="1"> <tr> <td>SCALE</td> <td>OF</td> <td>SHEET</td> <td>OF</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>					SCALE	OF	SHEET	OF				
SCALE	OF	SHEET	OF									

digital

TITLE: POWER DISTRIBUTION BOARD CONTROL

SIZE CODE: D CS NUMBER: G8019-0-1 REV: F

COMPONENT SIDE VIEW

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D

D

C

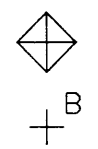
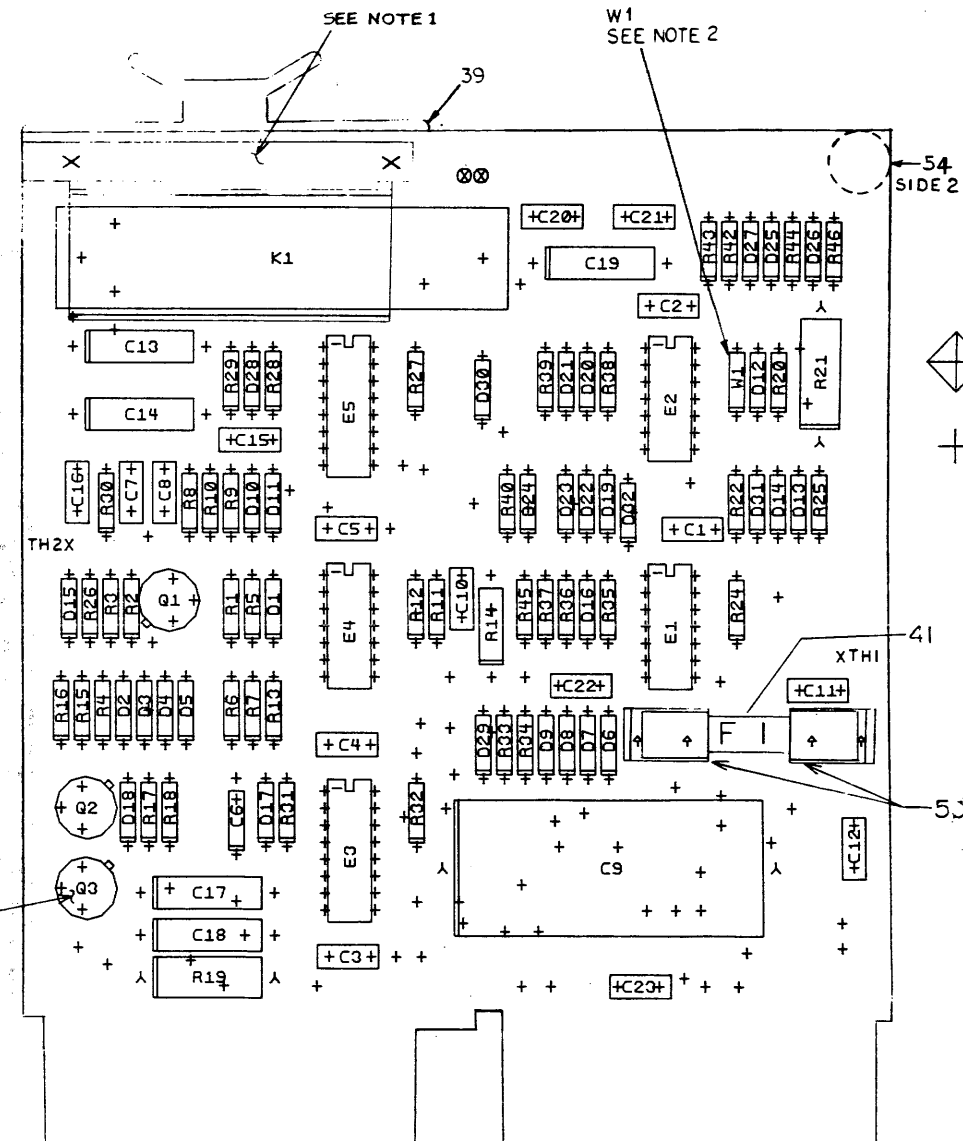
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DUAG8219-2

54

SIDE 2

41

XT1

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54

NOTES: 1. INSTALL A.F.C. BRACKET (7415122-02) USED TO SECURE RELAY K1 BY USING SCREWS (90260 11-2-1), AND KEP NUTS (9006557-0-0); WASHERS (9006655-0-0).

2. POWER JACK W1 IS ONLY REMOVED WHEN 35213 IS AN EXPANDED UNIT.

CHX	CHANGE NO	REV
	ML-205	E
	J. CARTER	
	KEI-CHER	
	GA-19-ME-6	
	GA-19-ME-6	
	D. FENIERE	

ETCH REV. B-P1
P.C. DESIGN DATA BASE REV. B

SIGNATURES	DATE
DRN. D. ...	5-15-72
CHK'D. ...	6-11-72
ENG.
PROJ. ENG.
PROD.
SCALE 2X	
SHT. 1 OF 3	
NEXT HIGHER ASSY. B-DD-G8019-2	

digital

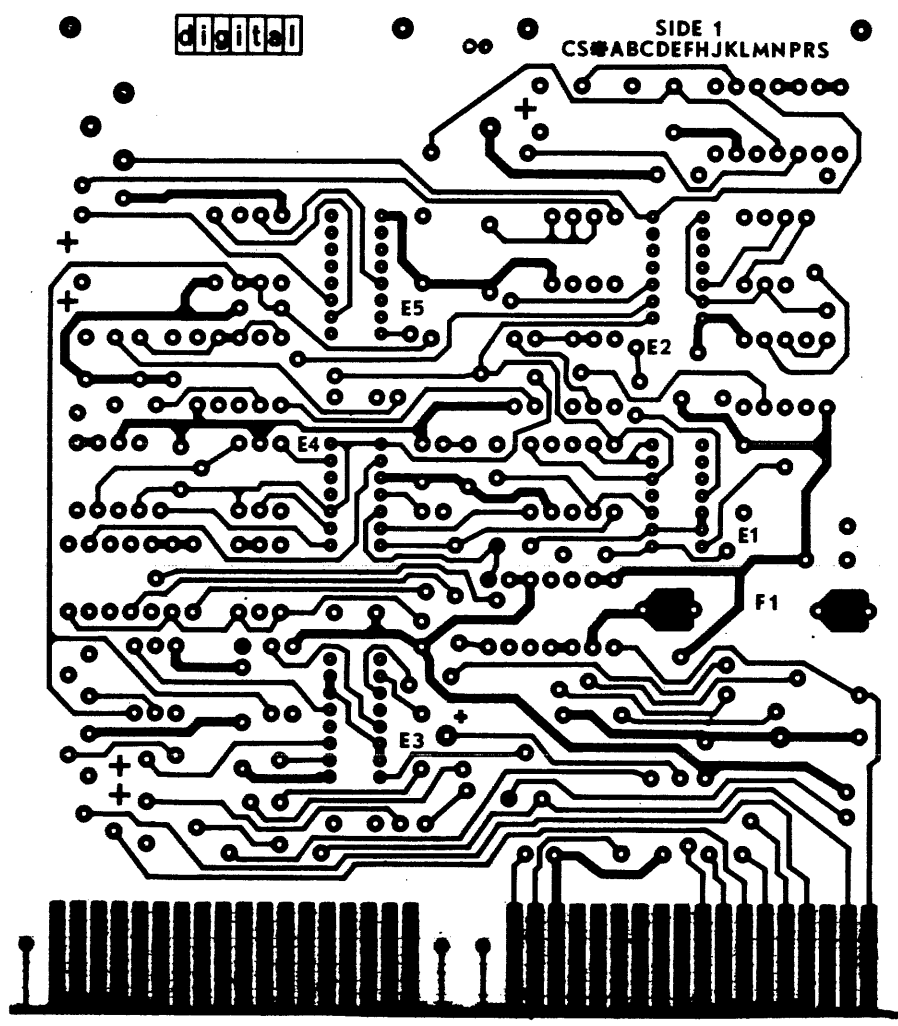
TITLE EAB-C POWER DISTRIBUTION BOARD

CONTROL NUMBER

D UAG 8019-0-0

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G8019 5012948B-P1



D
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F
DUA G8019 0-0

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	BA8-C POWER DISTRIBUTION BOARD CONTROL	SIZE/CODE	DUA G8019-0-0	NUMBER		REV.	F
SCALE	2+1	SHEET	2	OF	3	DIST.	

8

7

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DUA G8019-0-0 2

1

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D

D

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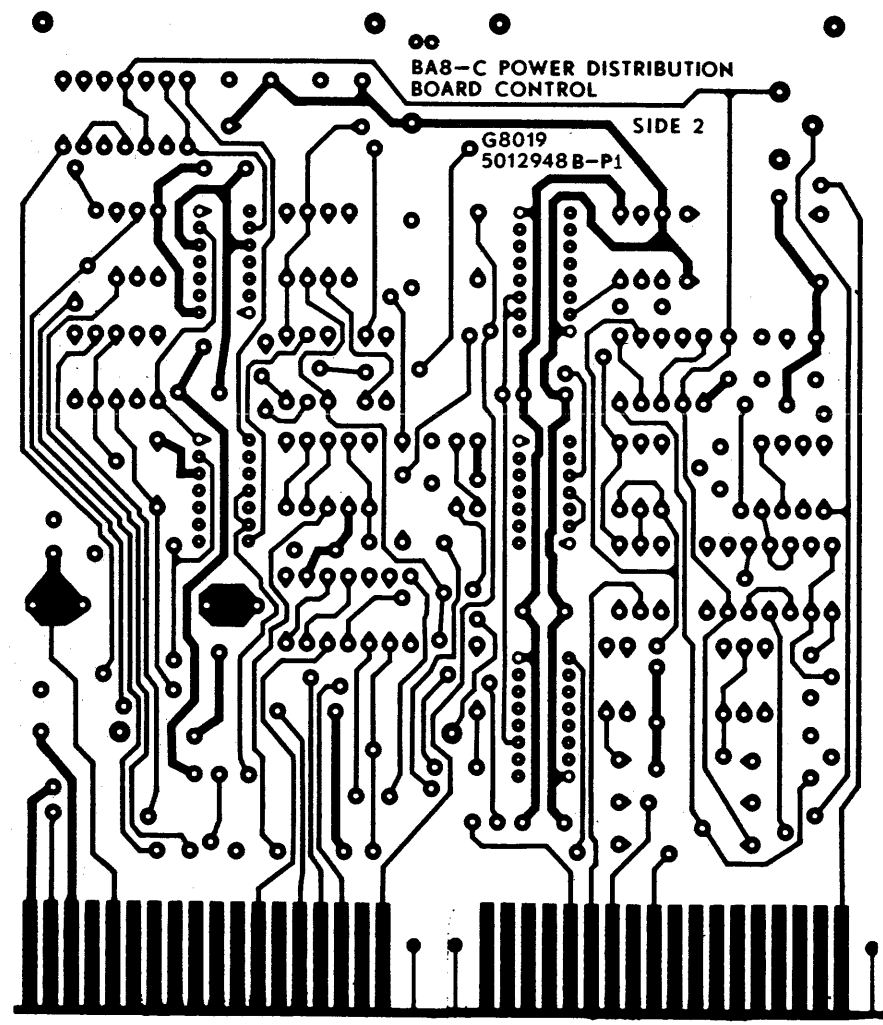
C

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A



F

DUA G8019-0-0

B

REVISIONS		
CHK	CHANGE NO	REV

TITLE	BA8-C POWER DISTRIBUTION BOARD CONTROL	SIZE CODE	DUA	NUMBER	G8019-0-0	REV.	F
SCALE	2+0:1	SHEET	3	OF	3	DIST.	

8

7

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3

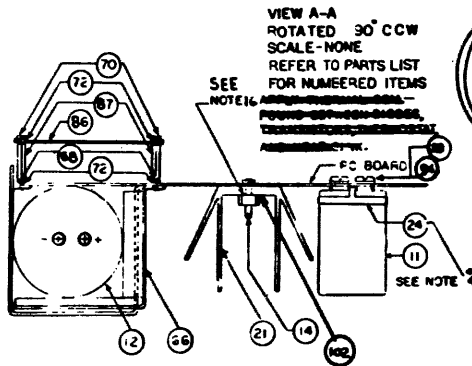
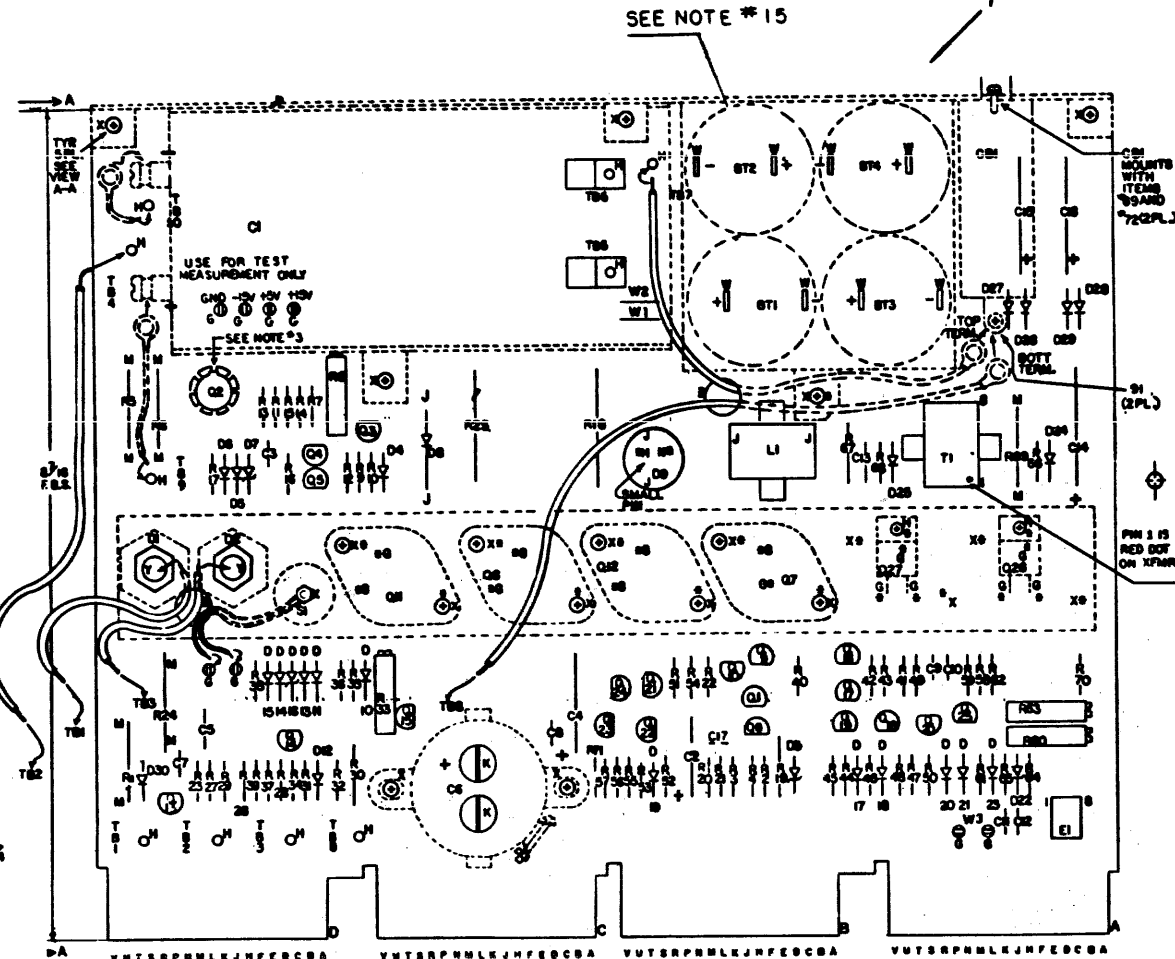
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1

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NOTES:

1. TRANSISTOR DEC 2N5362, 1510196 MAY BE USED AS A SECOND SOURCE FOR ITEM # 62 TRANSISTOR DEC D44H8 1511654.
2. ALL COMPONENTS SHOWN BY A BROKEN LINE MOUNT ON SIDE 2.
3. TRANSISTOR PAD MOUNTS UNDER Q2, AND HEAT SINK MOUNTS ON Q2. REFER TO PARTS LIST, ITEM # 25 AND # 77.
4. ITEM # 24 BRKT. IS MOUNTED ON BOARD WITH ITEM # 68, 73, AND # 81 (2 PL).
5. Q6, Q7, Q11 AND Q12 ARE MOUNTED WITH ITEM # 73, 78, 81, 92 AND 101.
6. S1 MOUNTS WITH ITEM 73, 81 AND 92 (1 PLACE). Q26 AND Q27 ARE MOUNTED WITH ITEM # 67, # 71, 74, 92 AND 103.
9. PHYSICAL IS MADE IN REVERSE, SIDE 1 IS LIGHT, SIDE 2 IS DARK.
10. INSERT JUMPER W3 FOR 50HZ. OPERATION.
11. JUMPERS W1, W2 SHOULD BE INSTALLED AFTER TEST.
15. FOR HANDLING AND SOLDERING REQUIREMENTS OF 15/17/20 LEAD ACID BATTERIES (ITEM # 23) SEE A-5P-7445252-D-0



16. APPLY THERMAL COMPOUND TO SIDES OF ALL THERMAL INSULATORS AND TO BOTTOM OF THERMOSTAT.

17. BELOW IS LISTED TORQUE VALUES TO BE USED IN ASSEMBLY:

SIZE OF SCREW	SECURING PC BOARD TO C6	INCH/LB
10-32 SCREWS	SECURING THE CRIMPS TO C1	14
10-32 SCREWS	SECURING THE CRIMPS TO C1	14
6-32 SCREWS	HOLDING PC BOARD TO THE CHASSIS	14
6-32 SCREWS	ON THE TRANSISTORS Q6, Q7, Q11, Q12.	14
4-40 SCREWS	ON THE TRANSISTORS Q26, Q27	10
NUTS	HOLDING THE DIODES, D1 & D2	20
NUT	HOLDING THERMOSTAT, S1	10
6-32 SCREWS	HOLDING THE CIRCUIT BREAKER TO CHASSIS	14
6-32 SCREWS	HOLDING BATTERY SHIELD TO CHASSIS	14
SCREWS	HOLDING CRIMPS TO CIRCUIT BREAKER	14

NOTE:
TO ACHIEVE TRUE TORQUE READINGS, ALWAYS USE A NUT DRIVER ON ONE SIDE AND A TORQUE DRIVER ON THE OTHER WHERE A SCREW AND A REP NUT ASSEMBLY IS INVOLVED.
O.C. TOLERANCE; INSPECT TO MINUS (-) 2 IN/16 OF ASSEMBLED TORQUE VALUES.

CAUTION: OFF SHEET P/L DATA BASE PER 68016-MK006

72741	4	7
IC TYPE GND +5V		
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

REF	DESCRIPTION	QTY	PART NO.	ITEM NO.
REF	X-Y COORDINATE HOLE LOCATION		8-AN-68016-0-4	A
REF	ASSY/DRILLING HOLE LAYOUT		8-AN-68016-0-5	2
REF	MODULE ECO HISTORY		8-AN-68016-0-6	3
1	ETCHED CIRCUIT BOARD		8-AN-500984-C-0	4
2	C8, C9		1000000	5
7	C4		1000000	6
8	C5, C6, C10, C11, C12		1001618/01	7
3	C14, C15, C16		1002711	8
1	C2		1000000	9
2	C7, C8		1002714-00	10
1	C6		1018784	11
1	C1		1011570	12
7	D6, D9, D11, D12, D13, D14, D15		1100113	13
2	D1, D2		1111000	14
10	D10, D17, D18, D19, D20, D21, D22, D24, D25, D30		1109275	15
5	D4, D28, D27, D29, D29		1109780	16
1	D6		1110015	17
2	D7, D22		1110004	18
2	D3, D10		1111205	19
1	S1		1211602	20
1			1211814	21
1	C81		1211873	22
4	B71, B72, B73, B74		1211878	23
1			1218420	24
1			1211543	25
3	R9, R9, R99		1300171	26
2	R26, R42		1300282	27
1	R1		1300232	28
7	R71, R4, R22, R28, R39, R50, R57		1300229	29
2	R12, R47		1300247	30
2	R27, R43		1300250	31
4	R10, R17, R28, R54		1300271	32
9	R3, R15, R37, R64, R46		1300295	33
13	R11, R13, R29, R21, R39, R40, R41, R48, R52, R55, R90, R90, R70		1300385	34
2	R14, R50		1300391	35
8	R23, R44, R45, R48, R51, R98		1300430	36
1	R30		1301317	37
1	R40		1301322	38
1	R2		1301477	39
1	R10		1301502	40
2	R10, R82		1302411	41
1	R24		1302830	42
1	R34		1302950	43
1	R7		1302971	44
1	R31		1302950	45
1	R50		1303047	46
2	R5, R25		1303380	47
1	R32		1304833	48
2	R9, R61		1305125	49
1	R53		1305340	50
1	R8, R33, R90		1309143-04	51
1	R93		1309143-00	52

FIRST USED ON OPTION MODEL: PDP8A

NO.	DATE	BY	REVISIONS
1	10-17-74	A. DELUCA	INITIAL
2	11-17-74	A. DELUCA	REVISION
3	12-17-74	A. DELUCA	REVISION
4	1-17-75	A. DELUCA	REVISION
5	2-17-75	A. DELUCA	REVISION
6	3-17-75	A. DELUCA	REVISION
7	4-17-75	A. DELUCA	REVISION
8	5-17-75	A. DELUCA	REVISION
9	6-17-75	A. DELUCA	REVISION
10	7-17-75	A. DELUCA	REVISION
11	8-17-75	A. DELUCA	REVISION
12	9-17-75	A. DELUCA	REVISION
13	10-17-75	A. DELUCA	REVISION
14	11-17-75	A. DELUCA	REVISION
15	12-17-75	A. DELUCA	REVISION

ETCH BOARD REV: E

REV	DATE	BY	DESCRIPTION
1	10/17/74	A. Deluca	INITIAL
2	11/17/74	A. Deluca	REVISION
3	12/17/74	A. Deluca	REVISION
4	1/17/75	A. Deluca	REVISION
5	2/17/75	A. Deluca	REVISION
6	3/17/75	A. Deluca	REVISION
7	4/17/75	A. Deluca	REVISION
8	5/17/75	A. Deluca	REVISION
9	6/17/75	A. Deluca	REVISION
10	7/17/75	A. Deluca	REVISION
11	8/17/75	A. Deluca	REVISION
12	9/17/75	A. Deluca	REVISION
13	10/17/75	A. Deluca	REVISION
14	11/17/75	A. Deluca	REVISION
15	12/17/75	A. Deluca	REVISION

digital EQUIPMENT CORPORATION

TITLE: **H763 REGULATOR BOARD**

SCALE: 1 OF 3

DATE: MK 1

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H 1-0-91089 SCD 2

WIRE TABLE				
PART NO.	FROM	TO	TERMINATION	WIRE LENGTH
91-07380-22	TB1	D1	SOLDER AT D1 END. SOLDER AT TB1 END	5.00
91-07380-22	TB3	D2	SOLDER AT D2 END. TAB AT TB3 END	5.00
91-07380-00	TB2	TB4	SOLDER AT TB2 END SOLDER AT TB4 END	7.00
91-07380-00	+ TERMINAL OF C1	TB9 HOLE	SOLDER WIRE AT HOLE END TB9. SOLDERLESS CONNECTOR AT C1 END 90-07926	2.50
91-07380-00	- TERMINAL OF C1	TB10 HOLE	SOLDER WIRE AT HOLE END TB10. SOLDERLESS CONNECTOR AT C1 END 90-07926	1.25
91-07380-00	TB7	TOP TERMINAL OF CBI	SOLDER AT TB7 END. SOLDERLESS CONNECTOR AT CBI END 90-07926	7.00
91-07380-00	TB8	BOTTOM TERMINAL OF CBI	SOLDER AT TB8 END. SOLDERLESS CONNECTOR AT CBI END 90-07926	11.25
91-07350-22	SI	SPLIT LUG	SOLDER AT SPLIT LUG END	4.00
	SI	SPLIT LUG	SOLDER AT SI END	4.00

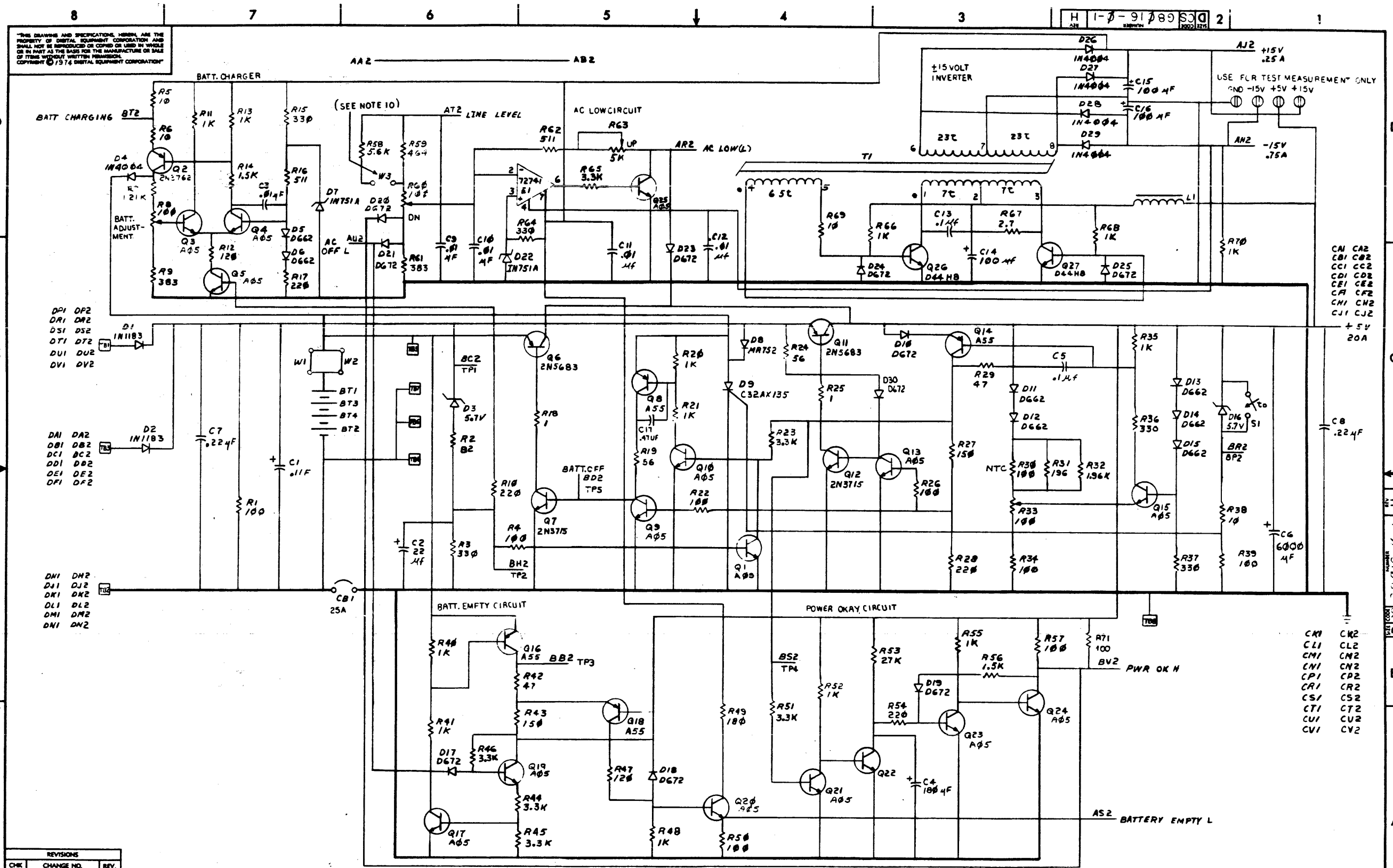
QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM
1	R30		RES. 100 1/2W MTC	1311760	57
1	R07		RES. 2.7 1/2W 105	1300440	54
2	Q7, Q12		TRANS. DEC 2K3715	1503000	55
1	Q2		TRANS. 2K3702	1500040-01	56
10	Q1, Q3, Q4, Q5, Q6, Q10, Q13, Q14, Q17, Q18, Q20, Q21, Q22, Q23, Q24, Q25		TRANS. DEC A05	1510705	57
1	R30		RES. 5.6K, 1/4W, 5%	1301870	58
4	Q0, Q14, Q16, Q18		TRANS. DEC A55	1510705	59
1	D0		DIODE SCR C32AX135	1510000	60
2	Q0, Q11		TRANS. 2K5003	1510647	61
2	Q26, Q27		TRANS. D44M0	1610707-01	62
1	T1		TRANSFORMER	1811758	63
1	L1		CHOKER	1811759	64
1	E1		I.C. DEC 72741	1810200	65
1			BRACKET REG. 0.0.	7411470	66
2			SCREW 4-40 x .50 PH	9000813-1	67
4			SCREW 6-32 x .25 PH	9000020-1	68
2			SCREW 6-32 x .31 PH	9000021-1	69
3			SCREW 6-32 x .75 PH	9000026-1	70
2			KEPHUT 4-40	9000557	71
7			WASHER #8 INTERNAL	9000633	72
8			WASHER #8 FLAT	9000655	73
2			WASHER #10 FLAT	9000772	74
8			SPLIT LUG	9000735	75
2	T05, T06		TAB FAST-ON (OFF SET)	9007112	76
1			TRANS. P.D. #10134	9007200	77
8			SCREW 6-32 x .56 PH	9007793-1	78
REF			G6016 REG. BOARD SPEC	G6016-0-E	73
4			SOLDERLESS CONNECTOR	9007920-01	80
11			KEPHUT 8-32	9000105	81
A/R			WIRE #12 AWG	9107300-00	82
A/R			WIRE #12 AWG	9107300-22	83
A/R	03		BUS WIRE #22 AWG (SEE NOTE #10)	9107500-01	84
A/R	01, 02		REEL JUMPER (SEE NOTE #11)	9107500	85
1			SHIELD BATTERY	7411693-0-0	86
3			SPACER #6 .30 LG.	9006801	87
2	TB5, TB6		EYELET	9009000	88
8	TB1, TB2, TB3, TB4, TB7, TB8, TB9, TB10		EYELET GS4-3	9007836	89
A/R			WIRE #22 AWG	9107350-22	90
2			WASHER #8 INTERNAL	9006634	91
A/R			THERMO COMPOUND	9008268	92
2			SCREW 10-32 x .31	9000070-01	93
2			WASHER #10 INTERNAL	9006635	94
1	C1		CAP .47UF 25V 20% CER.	1010275	95
1			DECAL	A-DC-7413109-00	97
REF			FINAL INSP. PROC. FOR G6016	A-SP-G6016-0-9	98
REF			POWER SUPPLY TESTER	B-DD-G6016-TA	99
A			PACKAGING INSTRUCTION	A-SP-3700175-00	100

REVISIONS		
CHK	CHANGE NO	REV

TITLE H763 REGULATOR BOARD SIZE CODE NUMBER REV. DCS G8016-0-1 H

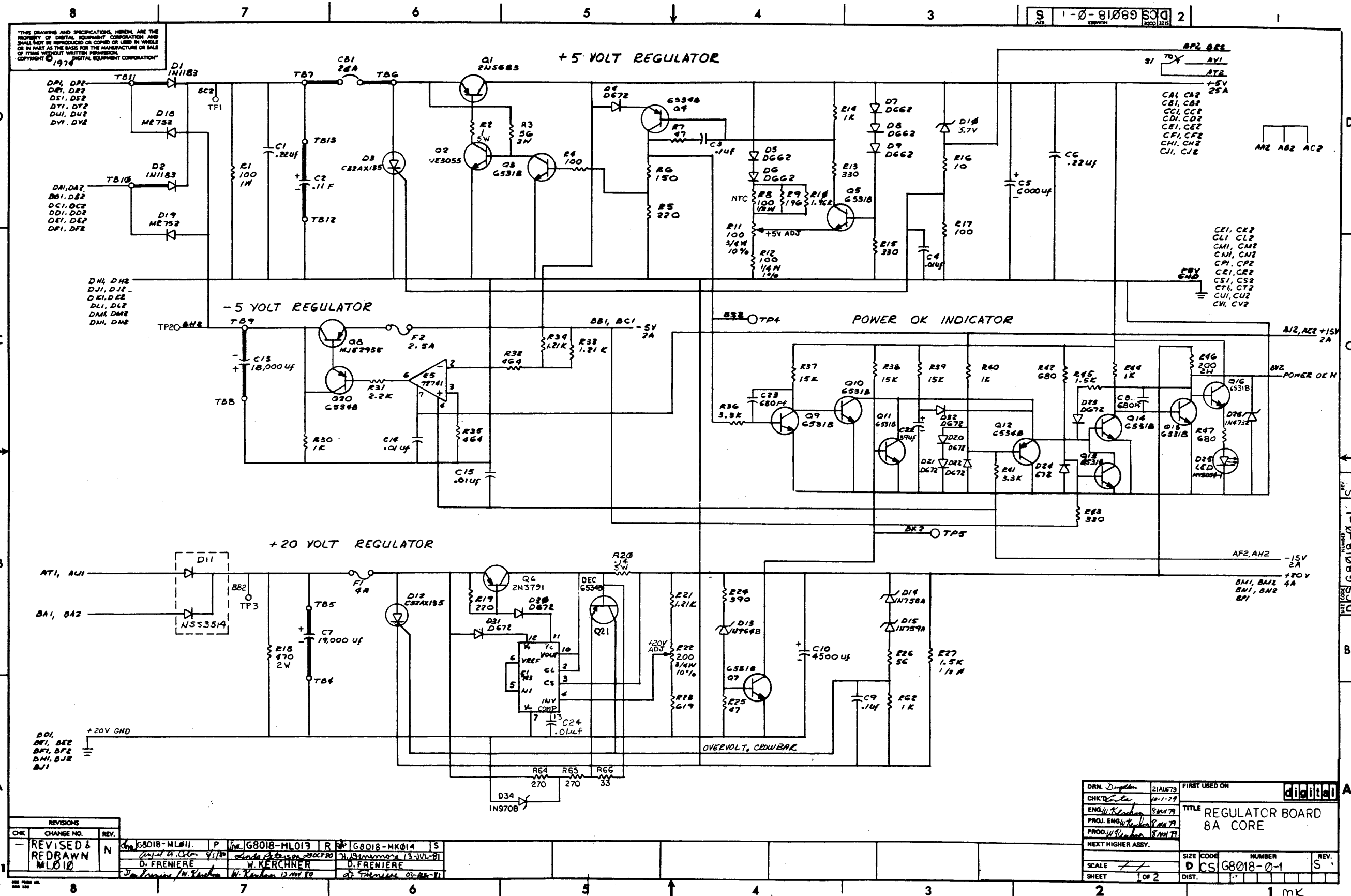
DEC FORM NO 130

mk 1



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	H763 REGULATOR BOARD	SIZE/CODE	DCS	NUMBER	68016-Q-1	REV.	H
SCALE	1:1	SHEET	3 OF 3	DIST.			



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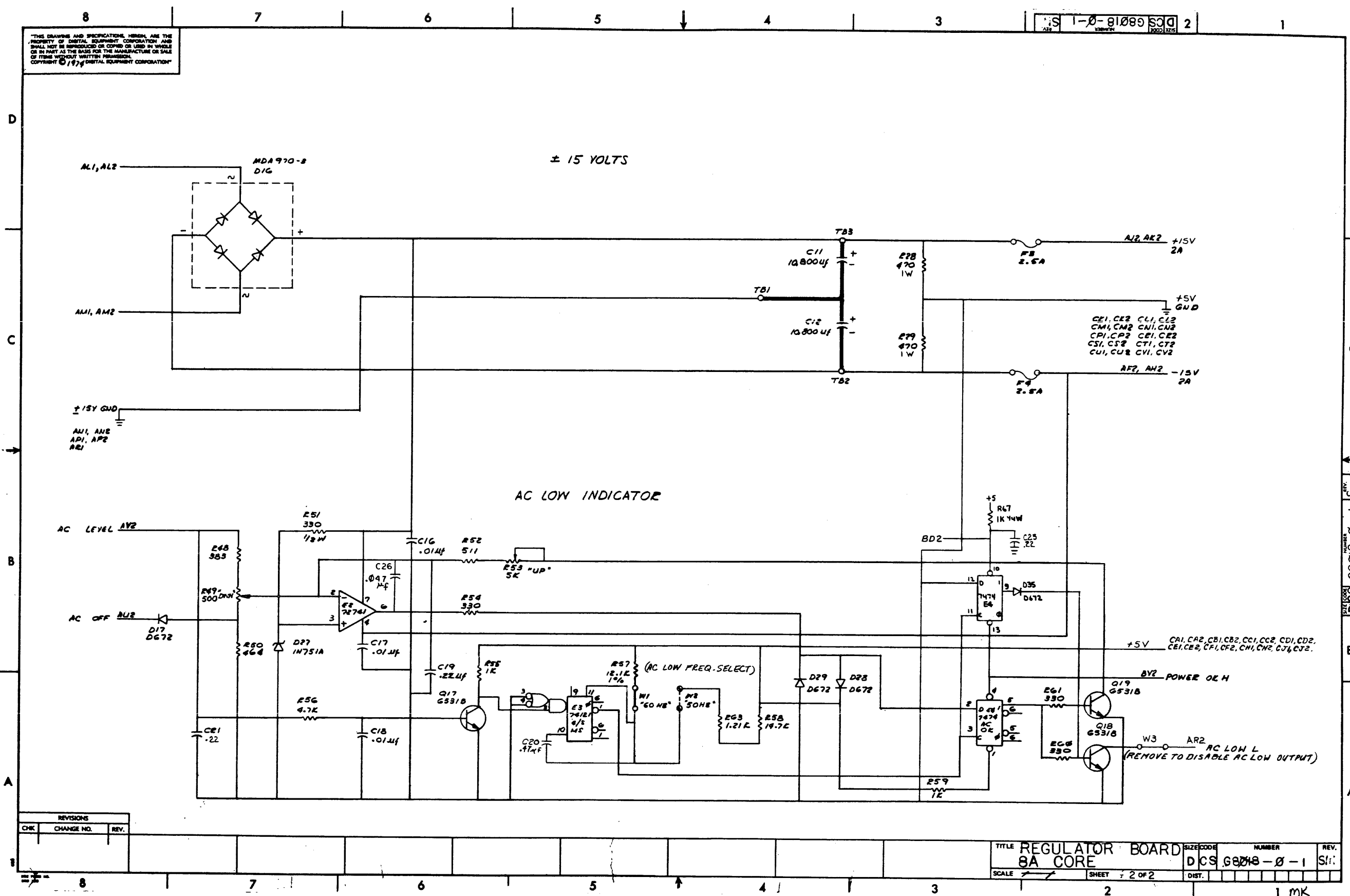
CHK	CHANGE NO.	REV.
	REVISOR	REV.
	REVISION	REV.

DESIGN	DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY
G8018-M1011	4/17/70	D. FRENIERE						
G8018-M1013	5/1/70	W. KERCHNER						
G8018-MK014	13-JUL-81	D. FRENIERE						

DRN. D. FRENIERE	21AUG79	FIRST USED ON	
CHKD. W. KERCHNER	10-1-79	TITLE	REGULATOR BOARD
ENG. W. KERCHNER	8/21/79		8A CORE
PROJ. ENG. W. KERCHNER	8/21/79		
PROD. W. KERCHNER	8/21/79		
NEXT HIGHER ASSY.			
SCALE		SIZE CODE	D CS
SHEET	1 OF 2	NUMBER	G8018-0-1
		REV.	S

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DCS 68018-0-1 S 2

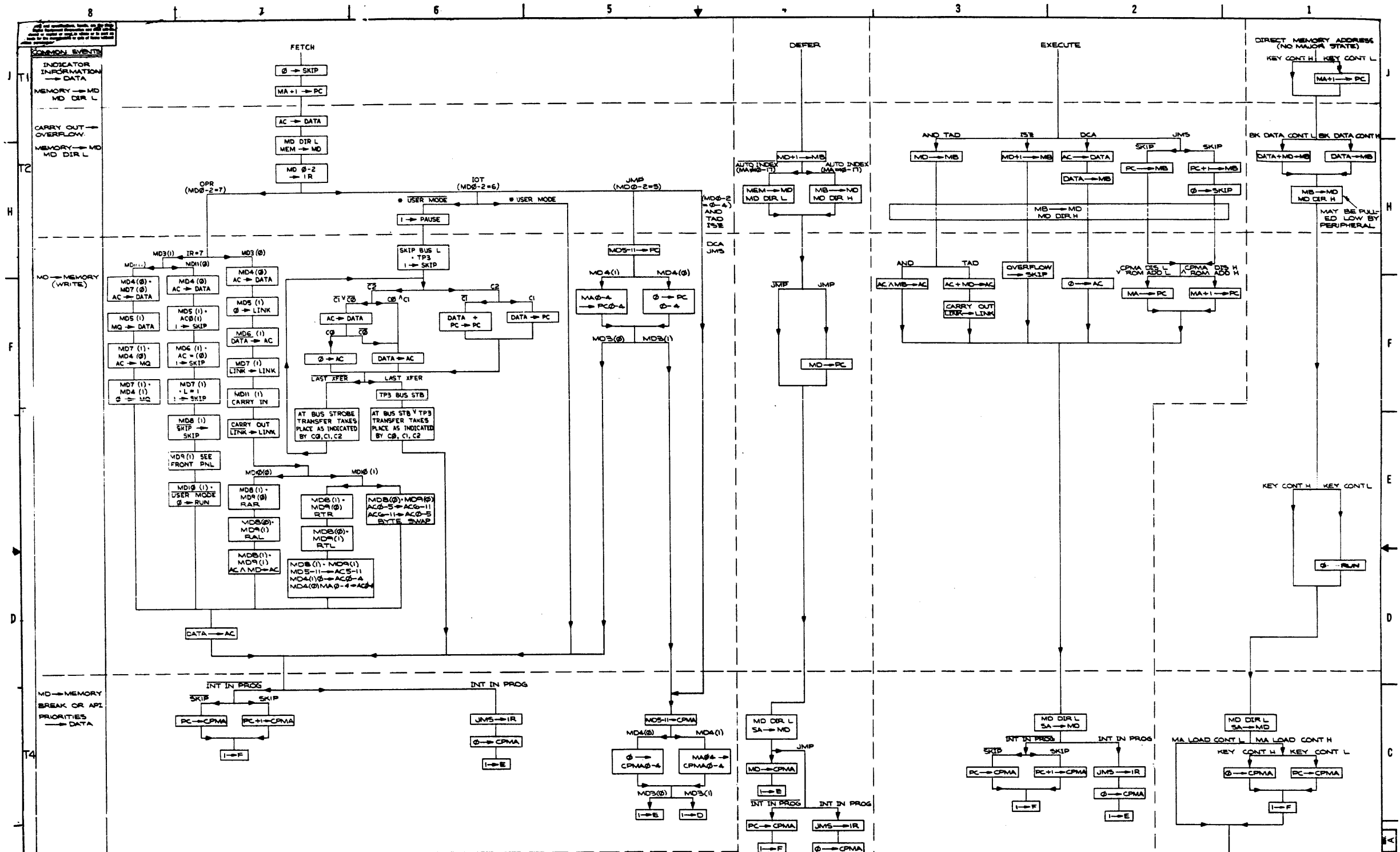


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE REGULATOR BOARD
BA CORE
SCALE 1:1
SHEET 2 OF 2
DISTRIBUTION

DCS 68018-0-1 S 2

1 MK

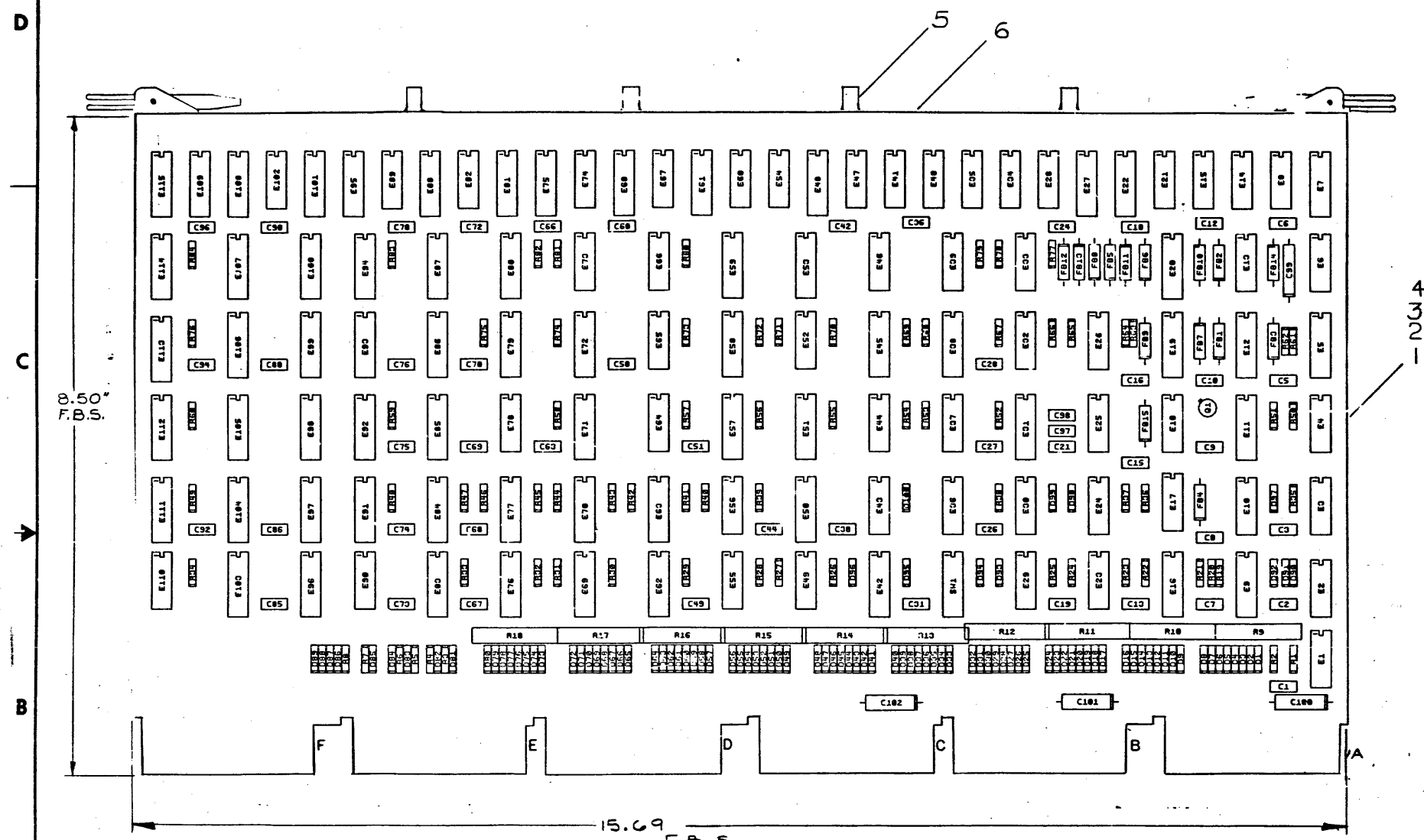


NOTES:
 * USER MODE IS USED BY THE TIME SHARING OPTION ONLY TO INHIBIT HALT, OPR, LAS, & PAUSE

QTY.	DESCRIPTION	PARTS LIST	PART NO.	REV.
digital EQUIPMENT CORPORATION PROCESSOR FLOW CHART				
MODEL: A-M-L-PDP8-E-0 PART NO: EFD PDP8/E-0-06 REV: A				

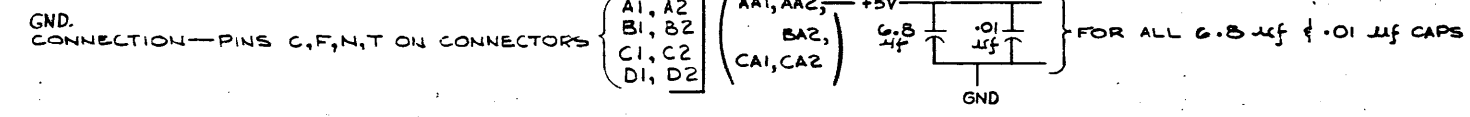
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NOTES:
 1. ALL UNLABELED DIODES ARE DEC TYPE DGG4
 2. +3V, +3VA AND +3VB GENERATION ON SHEET # 8
 3. FOR ETCH CUTS REFER TO D-AH-M8315-0-5
 4. ETCH CUTS



REF	X-Y COORDINATE HOLE LOCATION	K-CD-M8315-0-4	
REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8315-0-5	2
REF	MODULE ECO HISTORY	B-MH-8315-0-6	3
1	ETCHED CIRCUIT BOARD	5010932	4
1	HEX BOARD HANDLE ASSY	1210711-2	5
12	EYELETS	9008732	6
3	C100 THRU C102	CAP 8.8uf 35V 10%	7
2	C97, C98	CAP .047uf 16V DISC	8
1	C99	CAP 15uf 20V 10%	9
40	C1 THRU C3, C5 THRU C10, C12, C13, C15, C18, C19, C21, C24, C26, C27, C28, C31, C36, C38, C42, C44, C49, C51, C58, C60, C63, C66 THRU C70, C72 THRU C76, C79, C85, C88, C89, C90, C92, C94, C96	CAP .01uf 100V DISC	10
8	D88 THRU D92, D97	DIODE D882	11
92	D1 THRU D85, D93 THRU D96, D98 THRU D100	DIODE D864	12
1	SW1	DIP SWITCH PACKAGE	13
11	R2, R5, R6, R8, R19, R36, R82 THRU R86	RES 390 1/4W 5%	14
12	R1, R3, R4, R7, R20, R21, R23 THRU R26, R35, R37	RES 470 1/4W 5%	15
45	R22, R27, R29 THRU R34, R39 THRU R49, R52, R53, R55 THRU R60, R67 THRU R84	RES 1K 1/4W 5%	16
1	R28	RES 3.3K 1/4W 5%	17
1	R61	RES 22K 1/4W 5%	18
2	R50, R51	RES 27 1/4W 5%	19
5	R9, R10, R13, R14, R18	RES PACK 390 OHM	20
5	R11, R12, R15, R16, R17	RES PACK 470 OHM	21
2	R38, R54	RES 150 1/4W 5%	22
1	Q1	TRANSISTOR DEC 3009B	23
15	FB1 THRU FB15	FERRITE BEAD CHOKE	24
1	E2	20 MHZ X'TAL OSC	25
6	E1, E10, E17, E26, E29, E46	IC DEC 74S00	26
1	E33	IC DEC 7402	27
9	E3, E23, E25, E40, E56, E70, E82, E89	IC DEC 74S04	28
3	E47, E85, E74	IC DEC 7408	29
3	E24, E64, E90	IC DEC 74S10	30
2	E13, E28	IC DEC 74S11	31
1	E60	IC DEC 7412	32
3	E44, E49, E52	IC DEC 7417	33
2	E110, E102	IC DEC 74H21	34
1	E54	IC DEC 7430	35
3	E41, E43, E68	IC DEC 7432	36
1	E14	IC DEC 7437	37
2	E18, E32	IC DEC 74S40	38
1	E71	IC DEC 7442	39
2	E4, E6	IC DEC 74S51	40
4	E8, E15, E21, E34	IC DEC 74S74	41
3	E85, E101, E113	IC DEC 7483	42
3	E19, E22, E27	IC DEC 74120	43
1	E7	IC DEC 74123	44
2	E20, E58	IC DEC 74S139	45
2	E48, E59	IC DEC 74151	46
1	E45	IC DEC 74153	47

IC	TYPE	QTY	LOCATIONS	IC	TYPE	QTY	LOCATIONS
IC 74157	8	16		1024 BIT ROM	8	16	
74S158	8	16		7442	8	16	
74163	8	16		7483	12	5	
74S175	8	16		74120	8	16	
74S194	8	16		74123	8	16	
380	1	8		74S139	8	16	
8097	8	16		74151	8	16	
8235	8	16		74153	8	16	
8234	8	16					
8271	8	16					
74173-1	8	16					
256 BIT ROM	8	16					
IC TYPE	GND	+5V					



W. KERCHNER
 1/14/77
 L. KLOTZ
 H. ALLEN
 7-18-75
 M8315-00004 E
 M8315-00003 D
 M8315-00002 C
 M8315-00001 B
 M8315-00000 A

FIRST USED ON OPTION MODEL
PDP8 A

ETCH BOARD REV. **E**

DATE: 1/16/77
 DATE: 1/16/77
 DATE: 1/16/77
 DATE: 1/16/77
 DATE: 1/16/77
 DATE: 1/16/77

digital

TITLE: **HEX OMNIBUS CPU**

SIZE CODE: **D CS** NUMBER: **M8315-0-1** REV. **F**

SEMICONDUCTOR CONVERSION CHART

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DCS M8315-0-1 2

1	E51	IC DEC 74157	1910055	40
7	E60, E70, E80, E95, E107, E100, E115	IC DEC 74S150	1910540	40
3	E75, E83, E94	IC DEC 74163	1911713	50
2	E5, E42	IC DEC 74S175	1910067	51
0	E9, E11, E12, E18, E81, E90, E104, E114	IC DEC 74S104	1910952	52
1	E30	IC DEC 300	1909485	53
2	E07, E73	IC DEC 0093	1910037	54
4	E77, E84, E104, E109	IC DEC 0907	1911527	55
3	E09, E09, E90	IC DEC 0234	1911315	56
3	E81, E87, E92	IC DEC 0235	1909035	57
1	E31	IC DEC 0271	1909015	58
5	E30, E35, E37, E39, E95	IC DEC 0001	1909785	59
11	E50, E82, E83, E91, E90, E87, E103, E100, E100, E111, E112	IC DEC 74173-1	1911330-01	60
1	E89	256 BIT ROM (A)	23076A1	61
1	E57	256 BIT ROM (B)	23077A1	62
1	E70	256 BIT ROM (C)	23078A1	63
1	E72	256 BIT ROM (D)	23075A1	64
1	E76	256 BIT ROM (E)	23074A1	65
1	E83	256 BIT ROM (H)	23073A1	66
1	E30	256 BIT ROM (J)	23070A1	67
1	E53	1024 BIT ROM (F)	23080A2	68

SWITCH SELECTION CHART
(FOR AUTO RESTART LOCATION)

SWI- 1	FIELD 7
2	4000
3	2000
4	1000
5	400
6	200
7	OFF (DISABLES AUTO RESTART)
8	OFF FOR NORMAL OPERATION

ONLY ONE SWITCH MAY BE CLOSED AT A TIME.

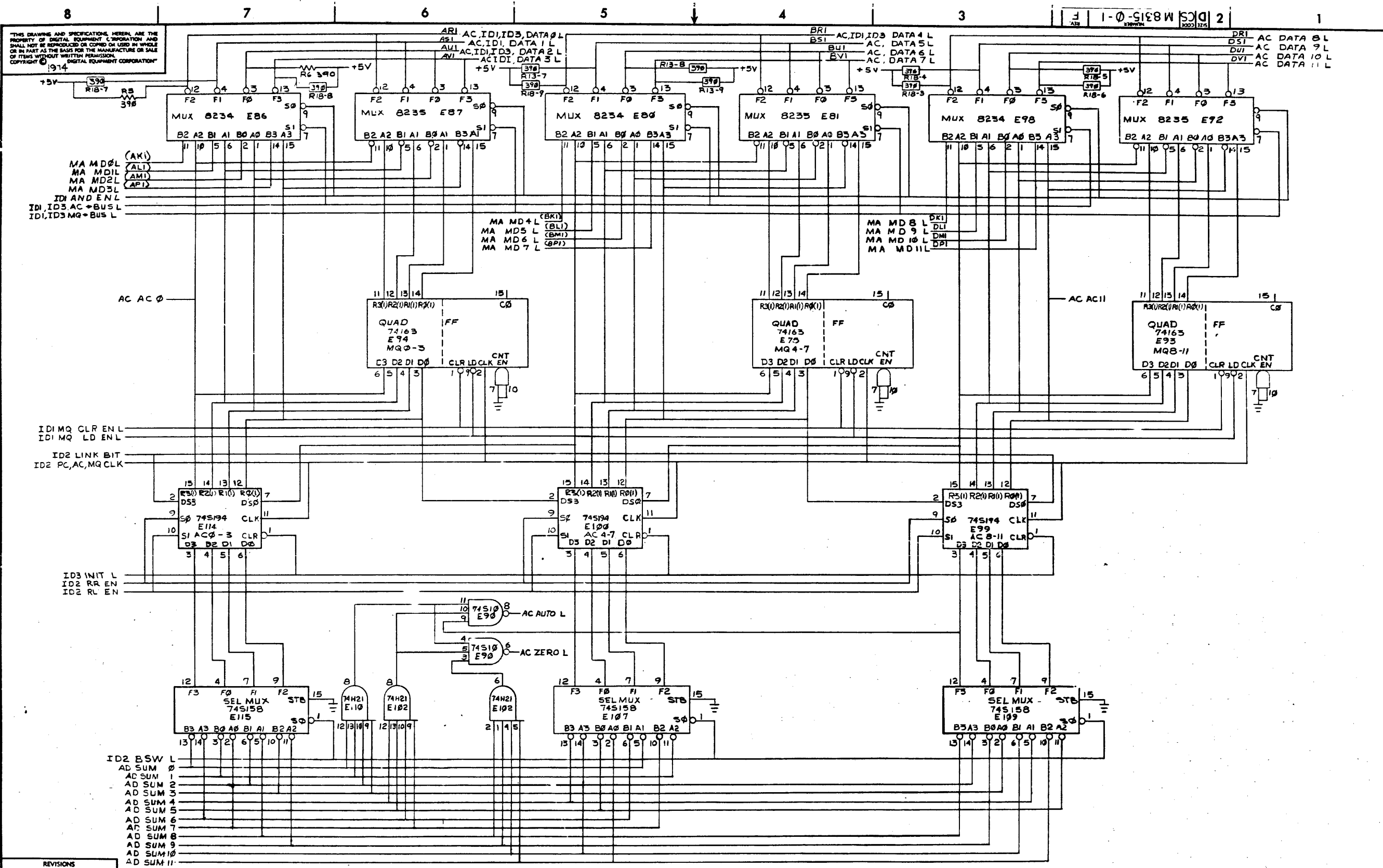
COMPONENT SUBSTITUTION CHART

PART CALLED FOR			SUBSTITUTE PART		
QTY	PART NO	DESC	QTY	PART NO	DESC
1	1901485	IC 380	1	910392	5580
			1	904771	5580
			1	710390	7380
			1	1911464	8240

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	HEX OMNIBUS CPU	SIZE CODE	DCS	NUMBER	M8315-0-1	REV.	F
SCALE	1:1	SHEET	2	OF 10	DIST.		

DCS M8315-0-1 F



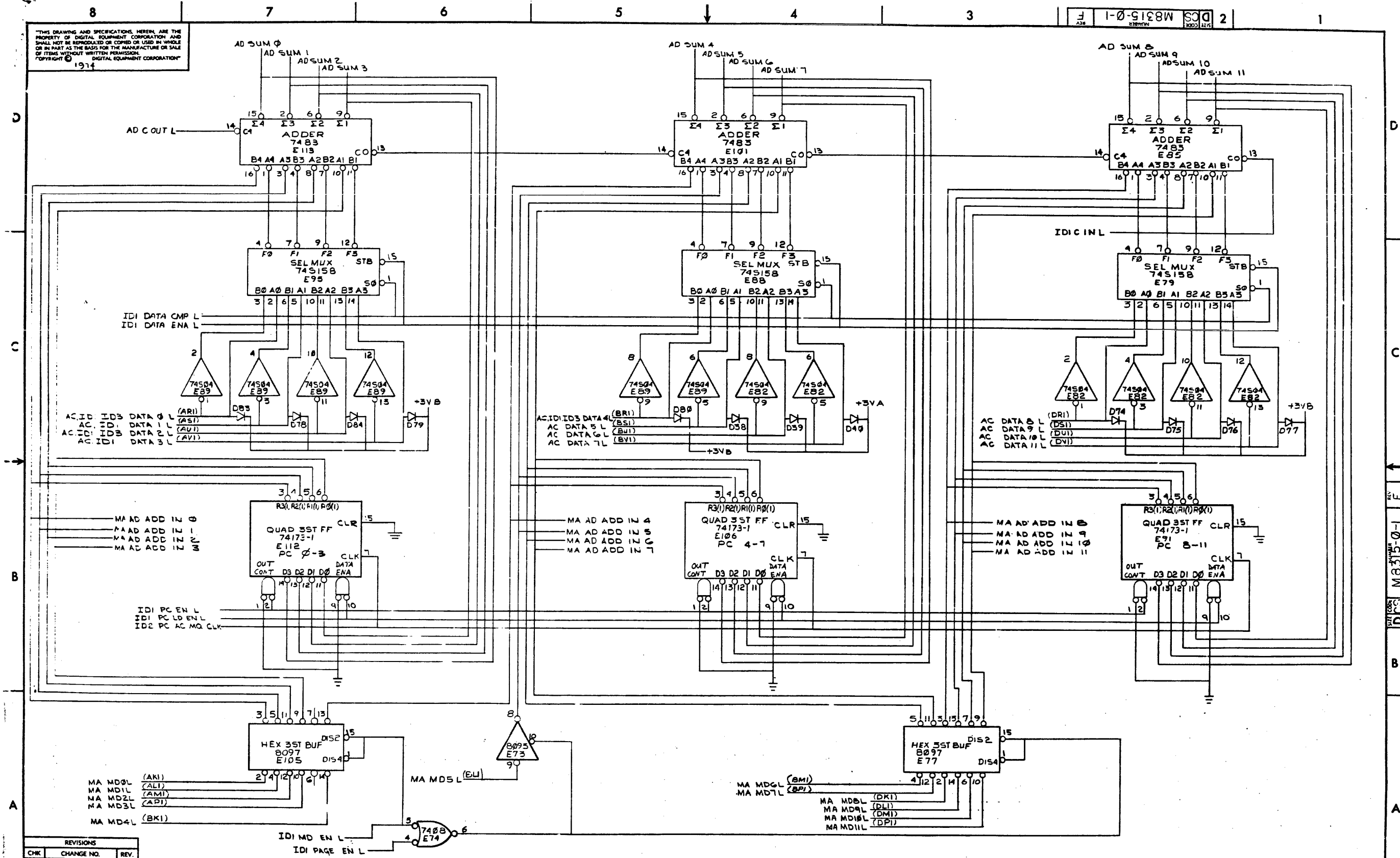
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
PDP8A CPU	(AC)	D CS M8315-0-1	F
SCALE	SHEET	OF	DIST.
	3	10	

DCS M8315-0-1
 SHEET 3 OF 10

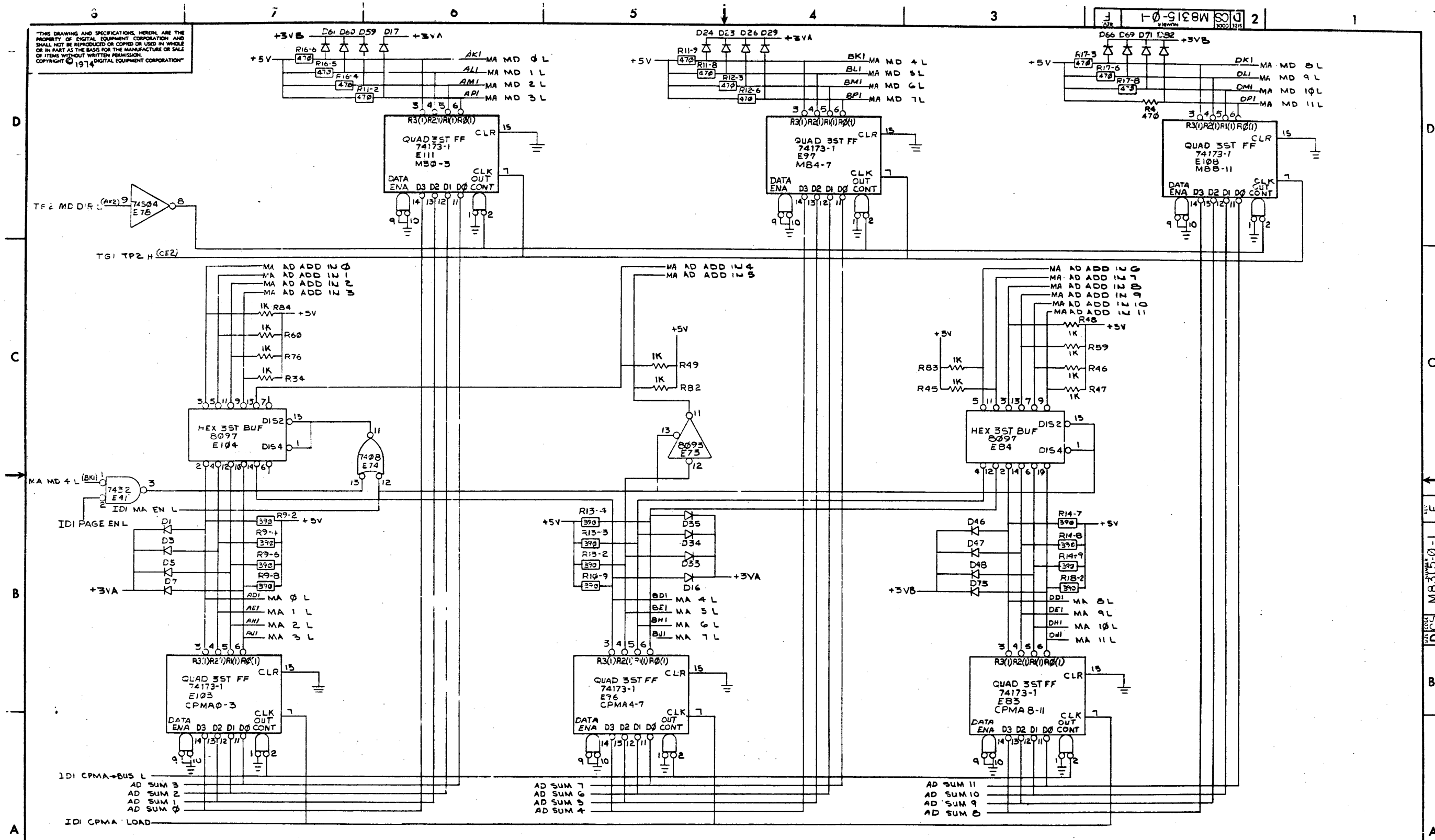
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1-0-918W 2

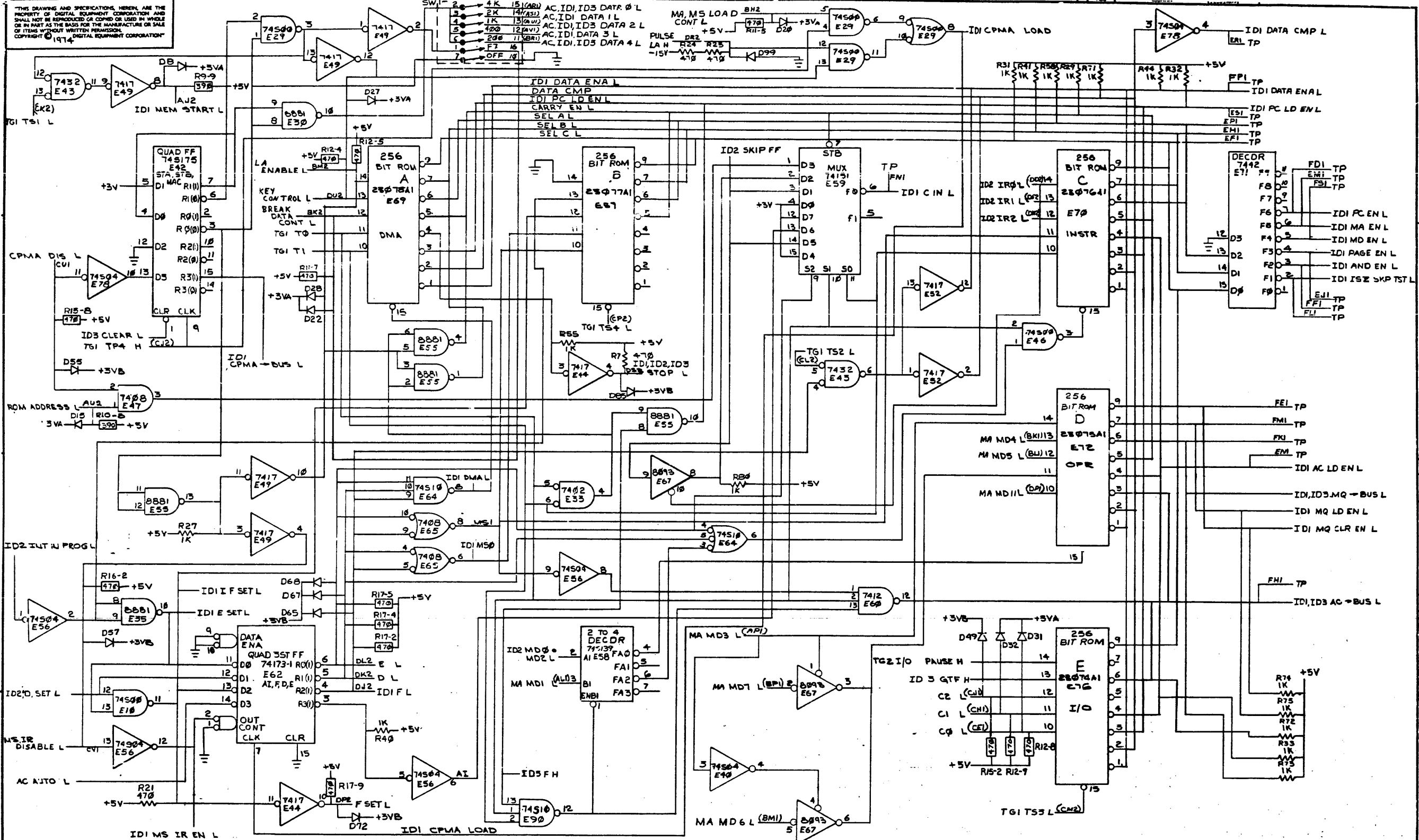


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE PDP-11 CPU (MA) SIZE CODE DCS NUMBER M8315-0-1 REV. F
SCALE / / SHEET 5 OF 10 DIST.

M8315-0-1 F

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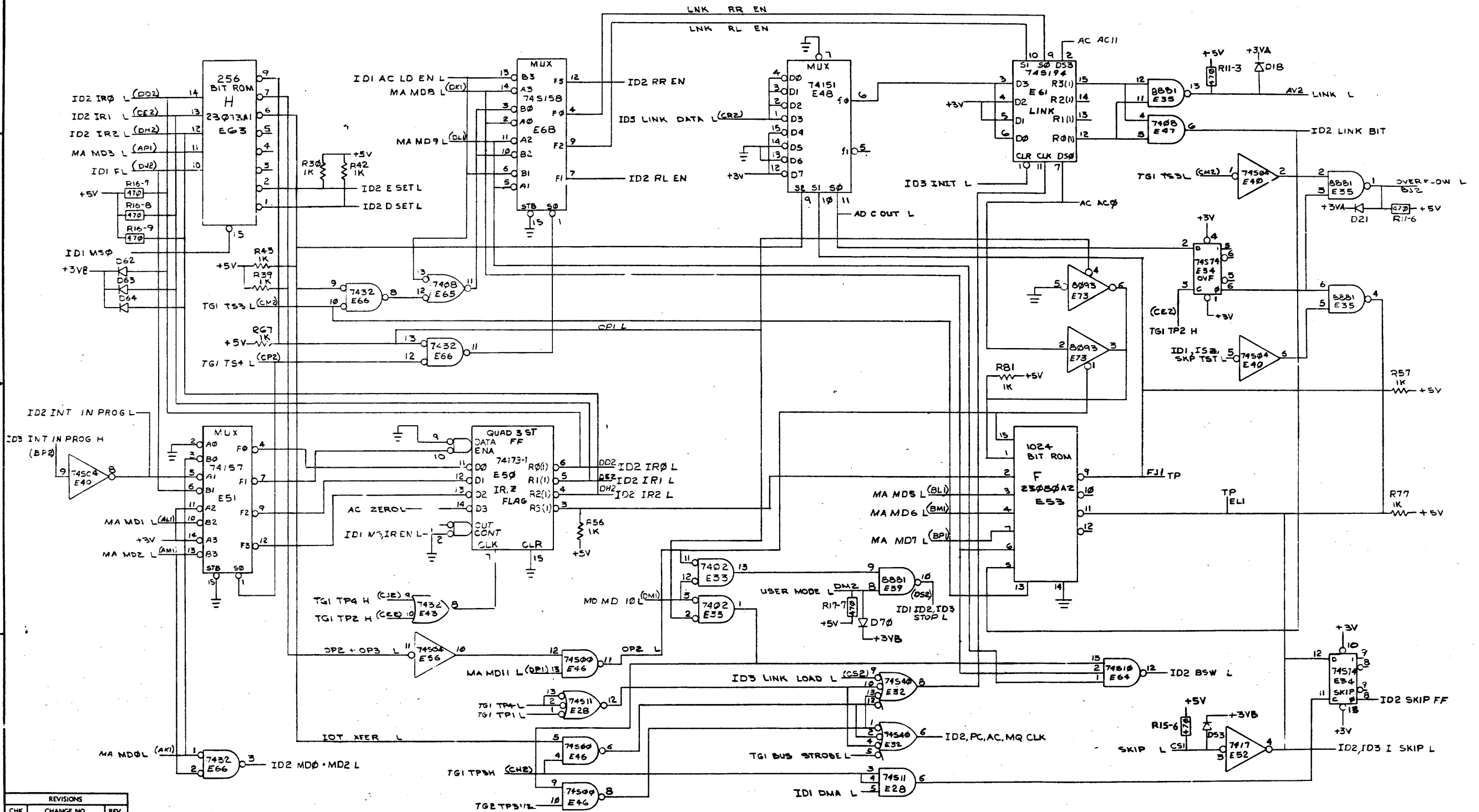


CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
PDP8A CPU (DD)	DCS	M8315-0-1	F

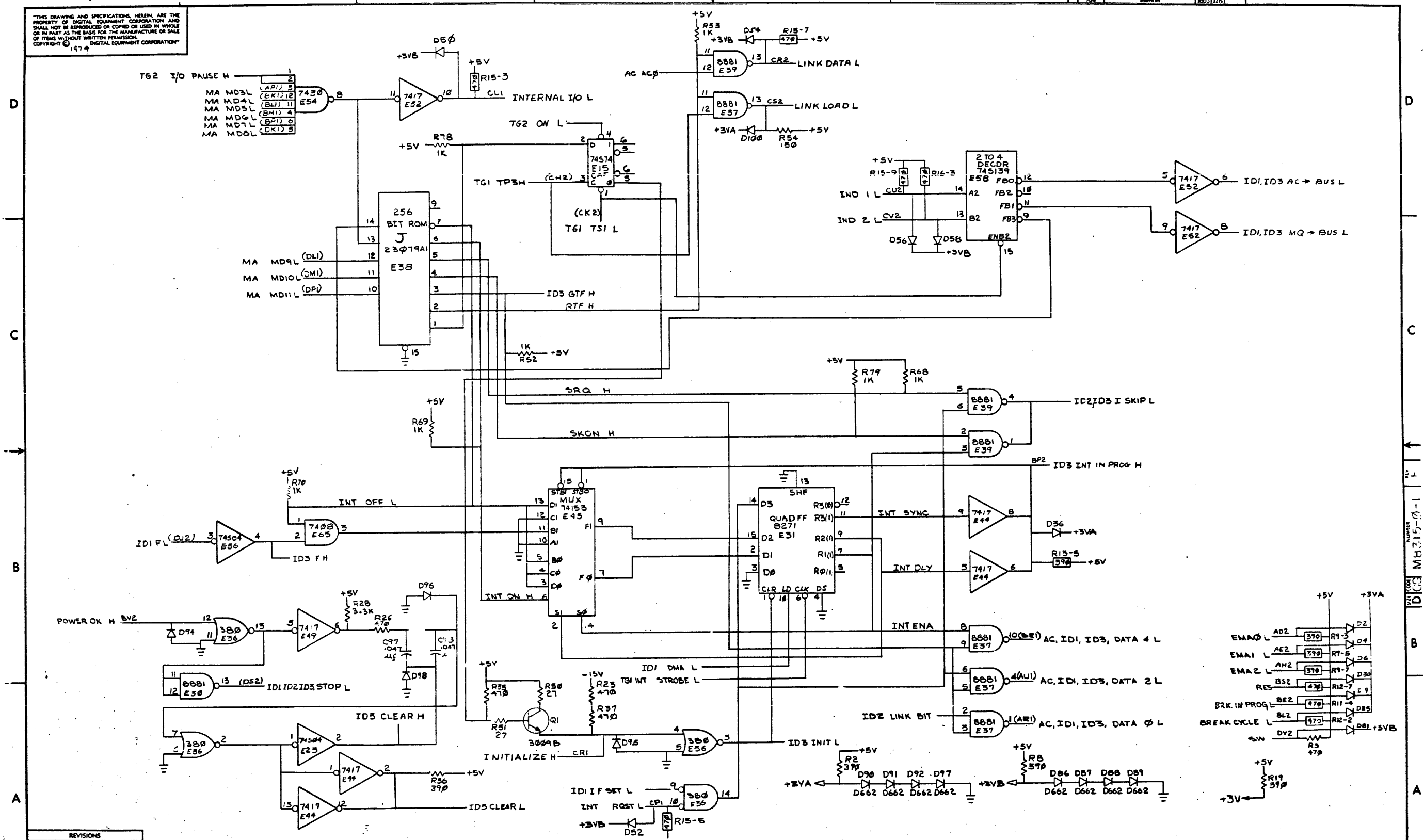
SCALE: SHEET 6 OF 10

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REVISIONS		
CHK	CHANGE NO	REV.

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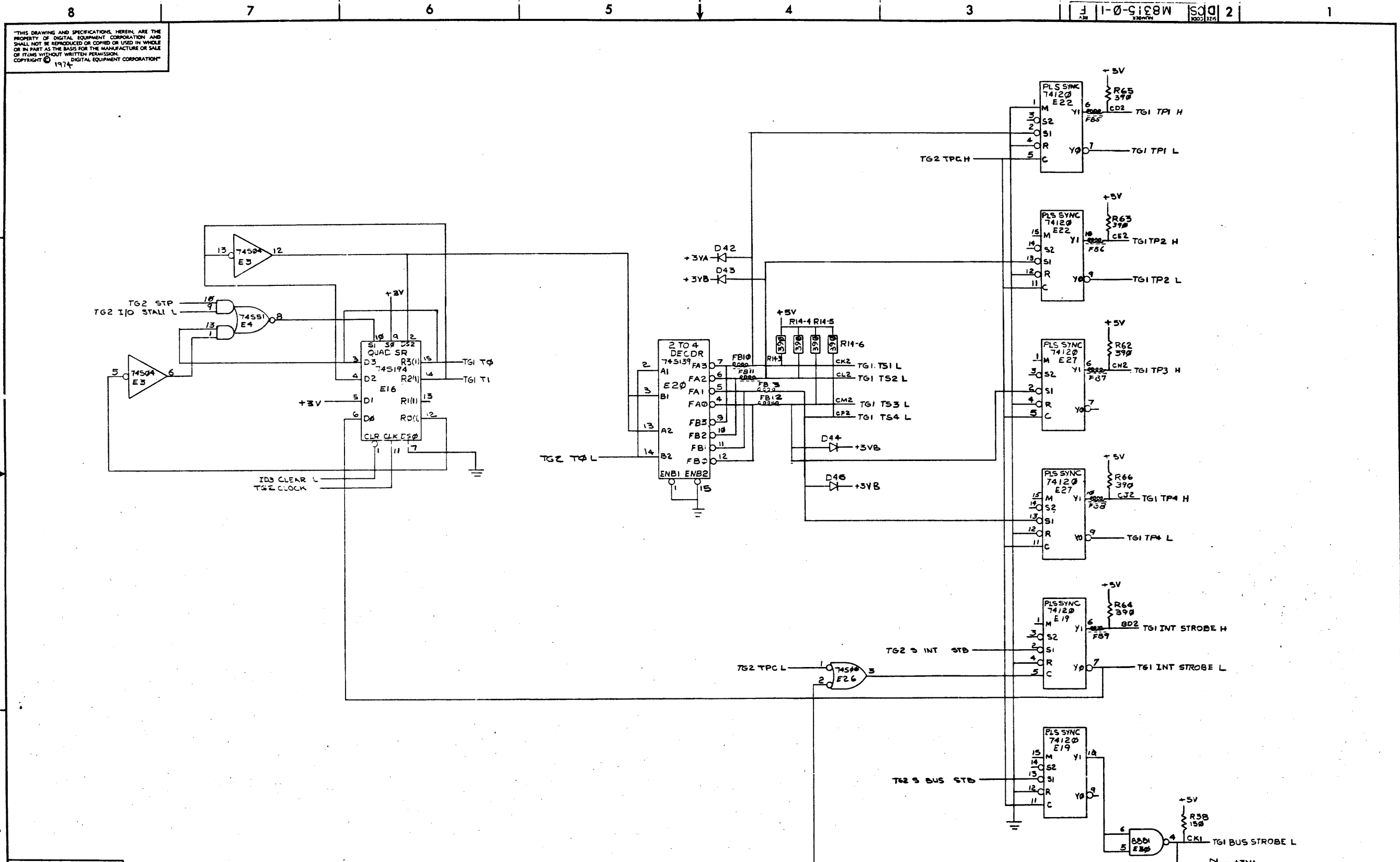
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8A-CPU	SIZE CODE	(03) DCS	NUMBER	M8315-0-1	REV.	F
SCALE		SHEET	8 OF 10	DIST.			

DCS M8315-0-1

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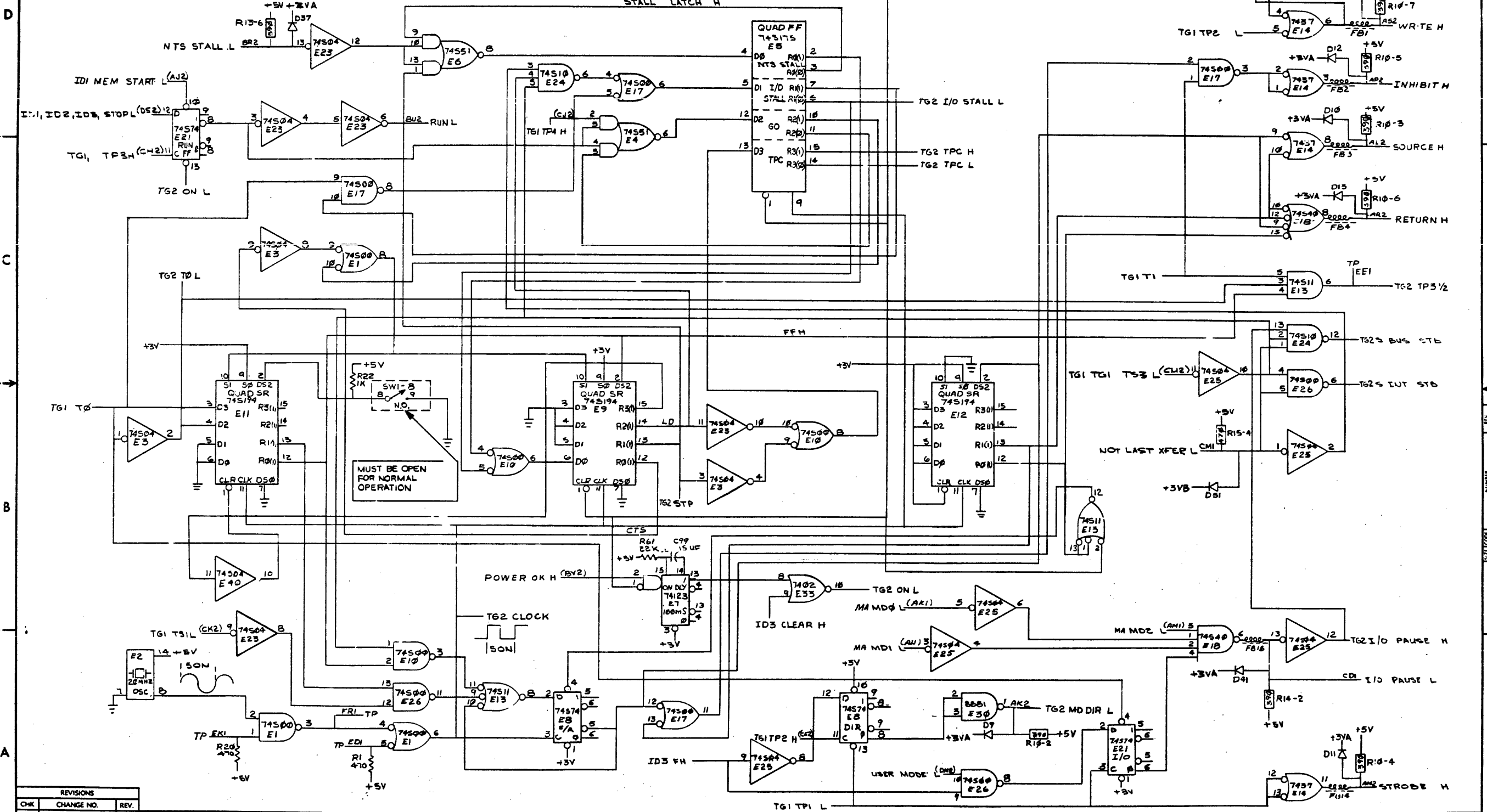
DCS M8315-0-1 2



REVISIONS		
CHK	CHANGE NO.	REV.

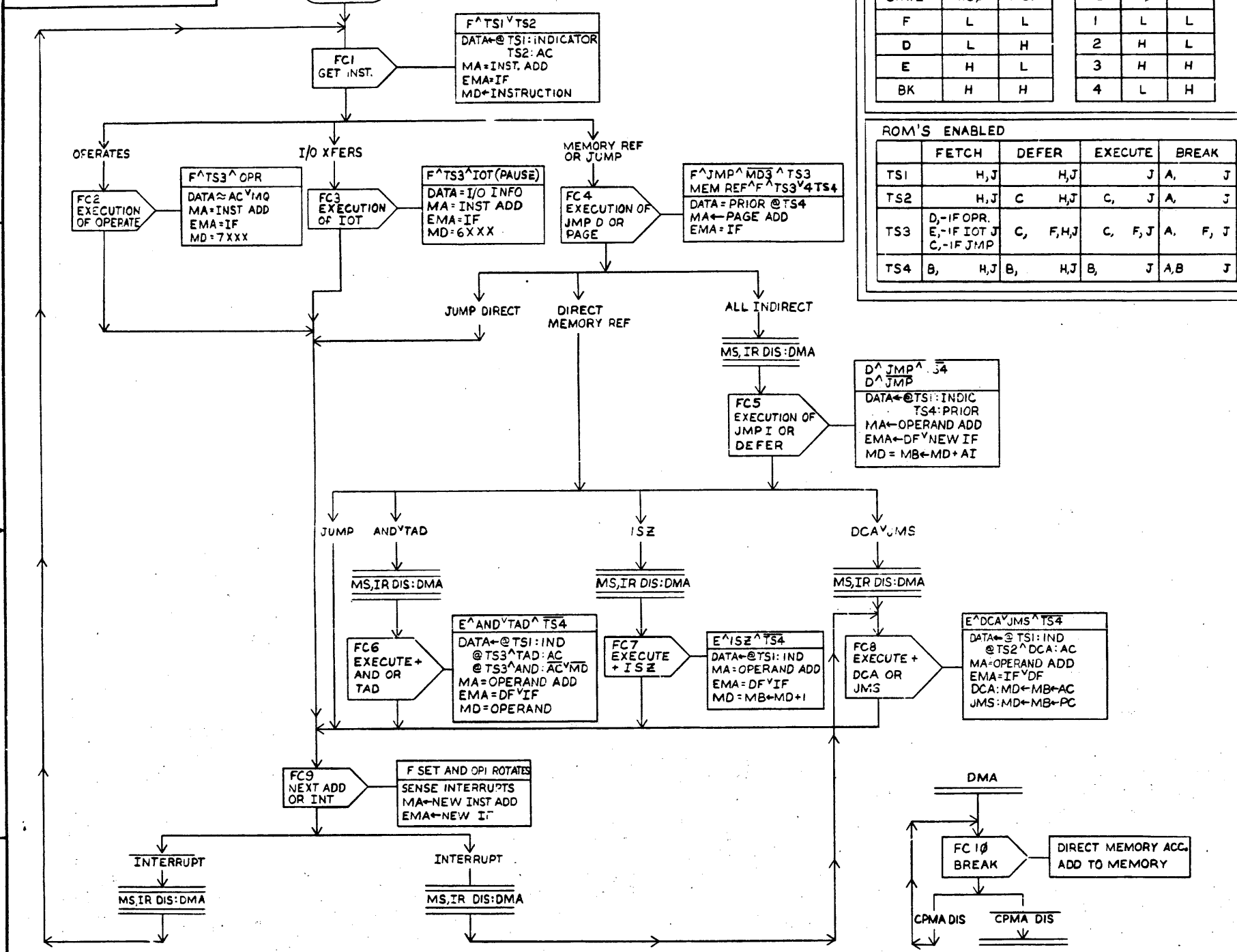
TITLE	PDP8A CPU (TG)	SIZE CODE	DCS	NUMBER	M8315-0-1	REV.	F
SCALE	1:1	SHEET	9	OF 10	DIST.		

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REVISIONS		
CHK	CHANGE NO.	REV.

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NOTES:
THIS IS AN INDEX TO THE 8A FLOW CHARTS. THE FLOW CHART NUMBER THAT APPEARS WITHIN THE SYMBOL [FCX] REFERS TO ANOTHER FLOW WHICH DETAILS THE ACTION WHICH IS BRIEFLY DESCRIBED IN THE SYMBOL []
OPTION FLOW CHARTS WILL USE THE SAME FCX TIME REFERENCE TO SHOW ITS RELATION TO THE CPU
FLOWS WILL BE NUMBERED AS FOLLOWS
M8315-FCX CPU FLOW FOR TIME 'X'
MABCD-FCX OPTION FLOW FOR CPU TIME 'X'

THE FOLLOWING IS A LIST OF MAJOR OMNIBUS SIGNALS AND THE FLOW CHARTS MOST PERTINENT TO THEM

BUS SIGNAL	FLOW CHARTS	MOST IMPORTANT LOGIC PRINTS
IR \emptyset -2	FC1	ID2
F, D, E	(FC1, FC4), FC5, FC8	ID1
USER MODE	FC2, FC3	ID2, T62
FSET	FC8	ID1
PULSE LA	FC1 \emptyset	ID1
STOP	FC2, FC1 \emptyset	ID1, ID3, T62
KEY CONTROL	FC1 \emptyset	ID1
SW	SEE M8317 TIMING & FLOW CHARTS	
I/O PAUSE	FC3	T62
C \emptyset -2	FC3	ID1
BUS STB	FC3	ID2, T61
NOT LAST XFER	FC3	T62
INT RQST	FC3	ID3
SKIP	FC7, FC8, FC9	ID2
INITIALIZE	FC3	ID3
CPMA DIS	FC4, FC5, FC9	ID1
MSIR DIS	FC1 \emptyset	ID1
LK LD & DATA	FC3	ID2, ID3
INDI-2	FC1	ID3
MAM LD CTRL	FC4, FC9, FC1 \emptyset	ID1
OVERFLOW	FC7	ID2
BK DATA CTRL	FC1 \emptyset	ID1
LA ENABLE	FC1, FC1 \emptyset	ID1
INT IN PROG	FC9	ID2, ID3
RUN	FC2, FC1 \emptyset	T62
PWR OK	FC2, FC1 \emptyset	ID3
MEM START	FC1 \emptyset	ID1, T62

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8A				
DIMENSIONAL TOLERANCE				
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED				
MILLIMETERS	INCHES	ANGLES	DATE	
XXX = ±0.10	XXX = ±0.08	XX = ±0.25	11-11-74	
XX = ±0.5	XX = ±0.02	X = ±0.1	DATE	
X = ±2			12-15-74	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	TITLE	
			FLOW DIAGRAM M8315 INDEX	
MATERIAL	FINISH	SIZE CODE	NUMBER	REV.
		B-DD-KK8A- \emptyset	D FD	M8315- \emptyset -16
SCALE	SHEET	OF	DIST.	
	1	1		

REV. 1 M8315- \emptyset -16

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21-0-17

MA+1 IS ENABLED TO THE PC

A MEMORY READ IS STARTED (REFER TO TIMING)

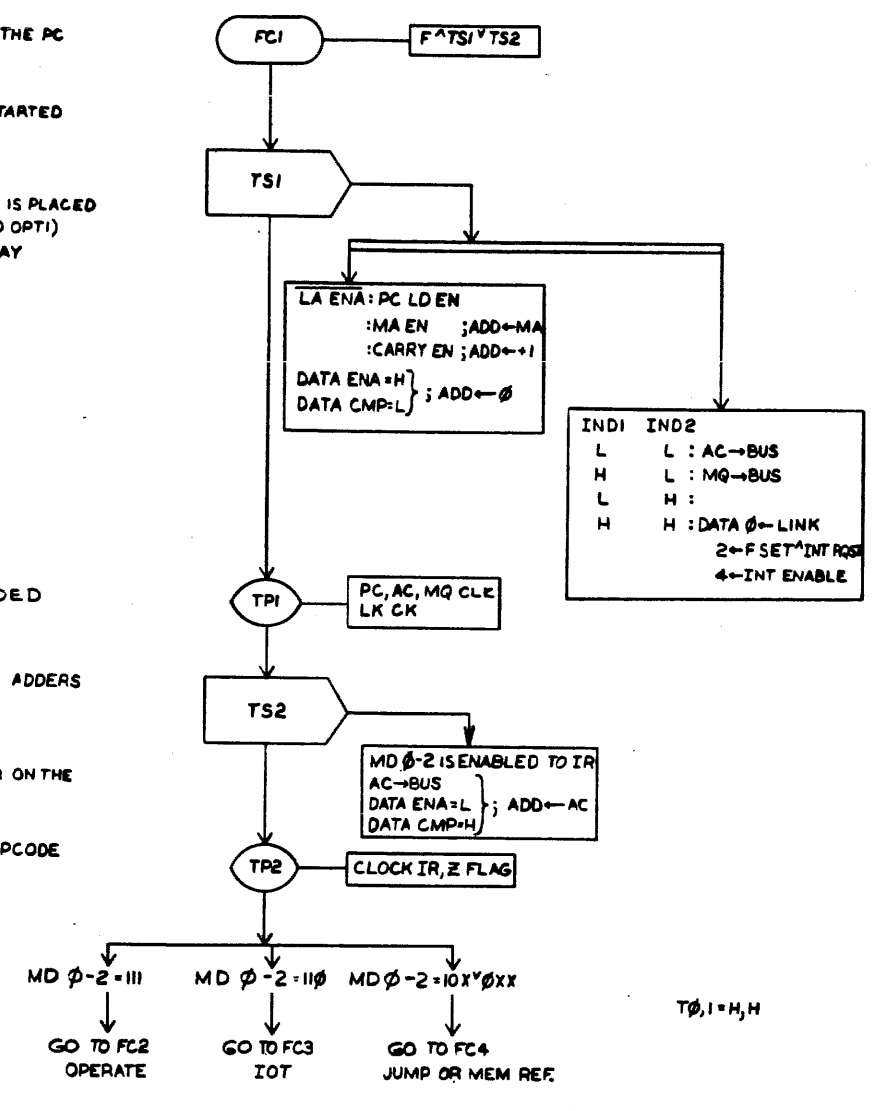
INDICATOR INFORMATION IS PLACED ON THE DATA BUS (REFER TO OPT1) FOR THE PANEL TO DISPLAY

THE PC IS LOADED

THE AC IS GATED THROUGH THE ADDERS TO SEE IF IT EQUALS 0

THE INSTRUCTION WILL APPEAR ON THE MD LINES FROM MEMORY

THE IR GETS LOADED WITH THE OPCODE AND THE Z FLAG IS ADJUSTED



MS ϕ ,1=L,L

T ϕ ,1=L,L

T ϕ ,1=H,L

THE INSTRUCTION IS DECODED AT THIS POINT AS FOLLOWS:

MD — 0 1 2 3 4 5 6 7 8 9 10 11

AND 0 0 0

TAD 0 0 1

ISZ 0 1 0

DCA 0 1 1

JMS 1 0 0

JMP 1 0 1

IOT 1 1 0

OPR 1 1 1

BITS 3-11 ARE NOT IMPORTANT AT THIS TIME

FIRST USED ON OPTION/MODEL				QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8A							
DIMENSIONAL TOLERANCE				PARTS LIST			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED				DRN <i>R. H. H.</i>	DATE 11-13-74	digital	
UNLESS OTHERWISE SPECIFIED				CHKD <i>R. H. H.</i>	DATE 12/3/74		
MILLIMETERS	INCHES	ANGLES	PROJ. ENG. <i>R. H. H.</i>	DATE 1-24-75	TITLE		
X,XX = ±0.10	XX = ±0.05	XX = ±0.05	PROJ. DATE 1-24-75	DATE 1-24-75	FLOW DIAGRAM		
X = ±0.2	X = ±0.1	X = ±0.1	PROD. DATE 1-24-75	DATE 1-24-75	M8315 FC1		
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	MATERIAL	B-DD-KK8A-0	SIZE CODE	NUMBER	REV.
			FINISH	++	D F D	M8315-0-17	
				++	SCALE		
					SHEET	OF	

REVISIONS
NO. CHANGE NO. REV.

REV. NO. M8315-0-17

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THE INSTRUCTION IS DECODED AT THIS POINT AS FOLLOWS
 THE SEQUENCES OF OPERATION ARE LOGICAL NOT CHRONOLOGICAL
 ALL OP2 & OP3 OCCUR AT TP3
 ALL OPI EXCEPT ROTATE LEFT OR RIGHT OCCUR AT TP3
 A SINGLE LEFT OR RIGHT ROTATE OCCURS AT TP4
 A DOUBLE LEFT OR RIGHT ROTATE OCCURS AT TP3 1/2 AND 4 } SEE FLOW CHART 9 F SET

OPERATE GROUP 3

TO AC	TO MQ	X	TO MQ	X	X	X	I
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0
0	1	0	0	0	0	0	0
0	1	1	0	0	0	0	0
1	0	0	0	0	0	0	0
1	0	1	0	0	0	0	0
1	1	0	0	0	0	0	0
1	1	1	0	0	0	0	0

NO OPERATION
 AC GOES TO THE MQ AND THE AC IS CLEARED
 MQ "ORED" WITH THE AC GOES TO THE AC
 AC & MQ SWAPS WITH MQ & AC
 THE AC IS CLEARED
 BOTH THE AC AND MQ ARE CLEARED
 THE MQ GOES TO THE AC
 THE MQ GOES TO THE AC AND THE MQ IS CLEARED

OPERATE GROUP 2

TO AC	SKIP IF AC=0	SKIP IF AC=0	SKIP IF AC=0	REVERSE IF AC=0	GET THE SWITCH	HALT	0
0	1	1	1	1	1	1	0

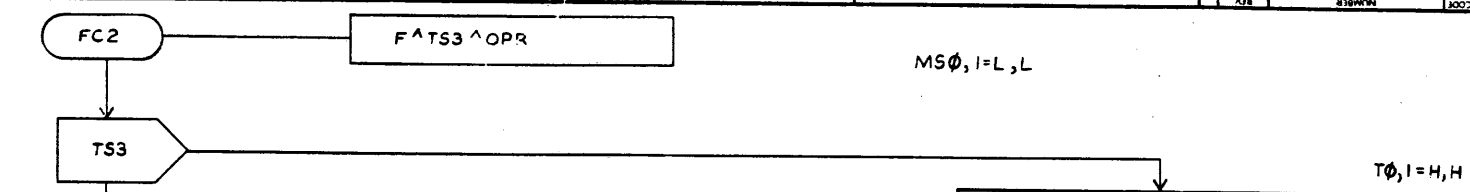
1ST MAKE A SKIP DECISION
 THEN REVERSE THEN DECISION IF BIT 8=1
 THEN CLEAR THE AC IF BIT 4=1
 THEN OR THE AC WITH THE SWITCHES IF BIT 9=1
 THEN STOP IF BIT 10=1

OPERATE GROUP 1

TO AC	TO LINK	AC TO AC	LINK TO LINK	ROTATE	+1 TO AC
0	0	0	0	0	0

1ST CLEAR THE AC & LINK IF BITS=1
 THEN COMPLEMENT IF BITS=1
 THEN INCREMENT THE L, AC IF BIT 11=1
 THEN ROTATE DEPENDENT UPON 8,9,10 AS FOLLOWS

MD 8 9 10
 H H H NO ROTATE
 H H L SWAP AC & LINK WITH AC & LINK
 H L H ROTATE LEFT ONCE
 H L L ROTATE LEFT TWICE
 L H H ROTATE RIGHT ONCE
 L H L ROTATE RIGHT TWICE
 L L X ILLEGAL



ENA. ROM D
 MD-4,5,7
 (NOP) H H H : DATA ENA; AC → BUS
 (MQL) H H L : DATA CMP; MQ LD EN
 (MQA) H L H : DATA ENA; AC → BUS, MQ → BUS
 (SWP) H L L : DATA ENA; MQ LD EN
 (CLA) L H H : DATA CMP;
 (CLA MQL) L H L : DATA CMP; MQ CLR EN
 (CLA MQA) L L H : DATA ENA; MQ → BUS
 (0 → MQ, AC) L L L : DATA ENA MQ CLR EN; MQ → BUS

ENA. ROM F
 ADLK = LINK

ENA. ROM D
 DATA ENA:
 MD4 = 0 : AC → BUS
 ENA. ROM F
 I SKIP L = (MD5 ^ AC ^ MD6 ^ ZERO ^ MD7 ^ LINK) ^ MD8
 ADLK = LINK

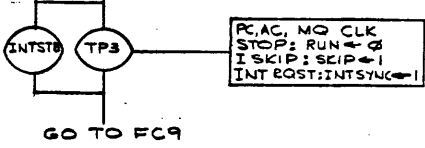
MD10 ^ UM : STOP
 MD9 : CONSOLE PLACES SWITCH REG ON DATA BUS

ENA. ROM D : DATA ENA. L
 MD4 = 0 : AC → BUS
 MD6 = 1 : DATA CMP L
 MD11 = 1 : CARRY EN; C IN L = 1

ENA. ROM F
 MD-5,7
 L L : ADLK = LINK
 L H : LINK
 H L : 0
 H H : 1

MD9 ^ MD8 ^ MD10 : BSW; ADDER 0-5 TO AC 6-11 ADDER 6-11 TO AC 0-5

AC LD EN L : RR EN
 : RL EN
 : LNK RR EN
 : LNK RL EN



EXECUTION OF AN OPERATE			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
PDP8A			
DIMENSIONAL TOLERANCE			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DATE 11-7-74	DATE 12/1/74
MILLIMETERS	INCHES	ANGLES	
±0.10	±0.008	±0° 30'	
±0.05	±0.02		
±0.2	±0.1		
THIRD ANGLE PROJECTION			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		DATE 1/2/75	DATE 1/17/75
MATERIAL		DATE 1/23/75	
FINISH			
NEXT HIGHER ASSY.		TITLE	
B-DD-KK8A-0		FLOW DIAGRAM	
SCALE		M8315 FC2	
SHEET 1 OF 1		SIZE CODE	NUMBER
		DFD	M8315-Q-18
		DIST.	REV.

REV.	CHG.	NO.

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THE INSTRUCTION AT THIS POINT IS DECODED AS FOLLOWS: ONLY IF *USER MODE IS NEGATED THIS ALLOWING PAUSE TO BE ASSERTED.



FOR DEVICE CODE 000 THE CPU TAKES CONTROL DEPENDING UPON THE COMMAND AS FOLLOWS:

MD-9	10	11	
SKON	0 0 0		SKIP IF INT ON, TURN IT OFF
ION	0 0 1		TURN INT SYS ON
IOF	0 1 0		TURN INT SYS OFF
SRQ	0 1 1		SKIP IF INT RQST
*GTF	1 0 0		LINK, INT ON, INT RQST TO AC0,2,4
*RTF	1 0 1		AC0 TO LINK, TURN INT, SYS ON
NOP	1 1 0		NO OPERATION
CAF	1 1 1		GENERATE INITIALIZE.

* ALSO SEE OPT 2

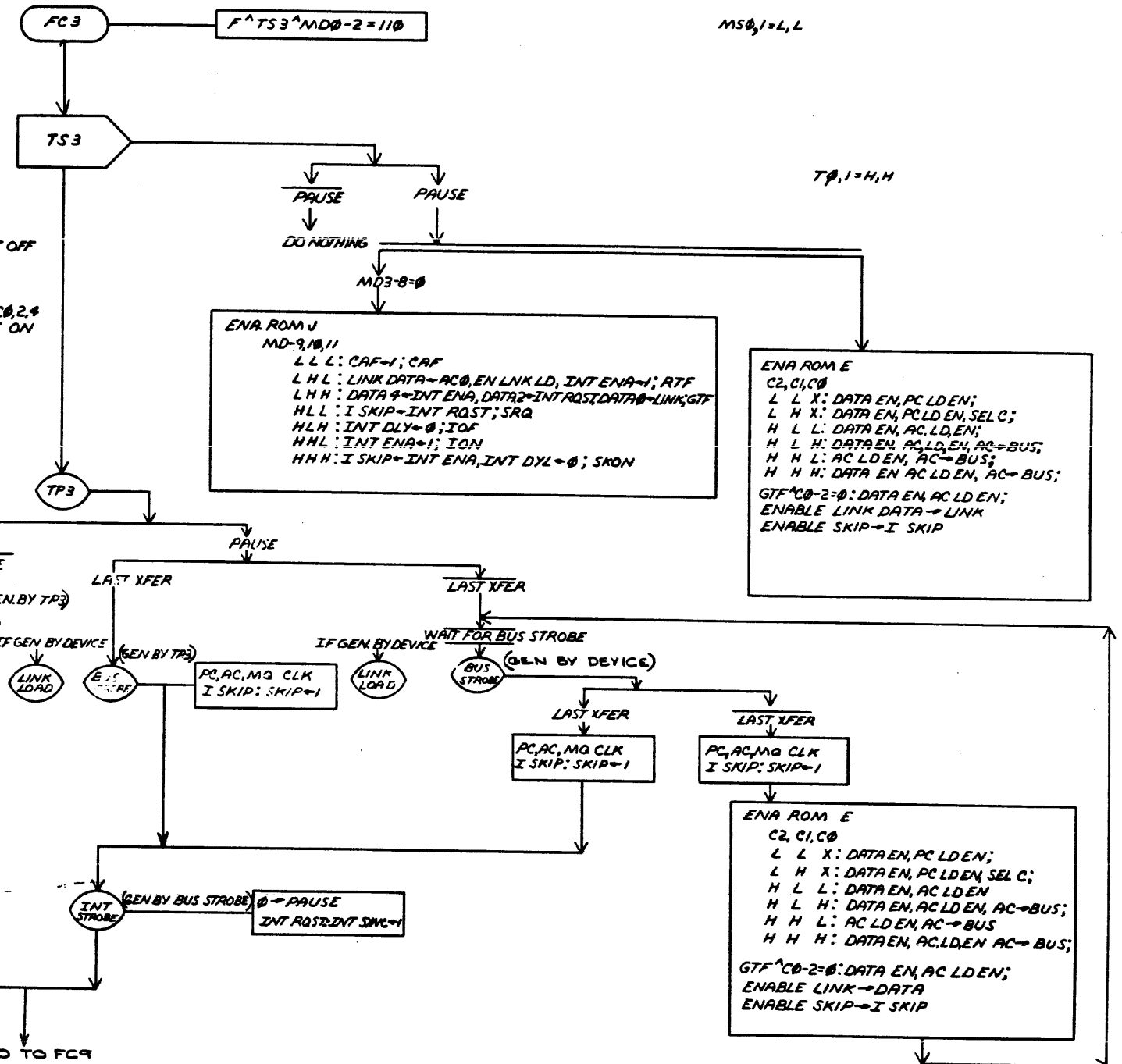
OTHER DEVICES SEND OR RECIEVE DATA DEPENDING UPON THE C LINES AS FOLLOWS:

CO C1 C2	
AC-DEV H H H	THE DEVICE RECIEVES THE AC AT TP3
RELATIVE JUMP H H L	THE DATA LINES+THE PC GO TO PC AT BUS STB INPUT OR TO AC H L H THE AC'D'ED WITH DATA LINES GOES TO THE AC BUS STB
ABSOLUTE JUMP H L L	THE DATA LINES GO TO THE PC AT BUS STB
AC-DEV 0-AC L H H	THE DEVICE RECIEVES THE AC AT TP3 AND THE AC IS CLEARED
INPUT JAM TO AC L L H	THE DATA LINES GO TO THE AC BUS STB

NOTE ALL I/O XFERS TAKE PLACE OVER THE DATA LINES.

IN REALITY ALL XFERS TAKE PLACE ON THE LEADING EDGE OF BUS STB IN ACCORDANCE WITH THE "C" LINES AT THAT TIME. ASSERTING NOT LAST XFER CAUSES THE CPU TO WAIT FOR A BUS STROBE TO DO THE NEXT XFER. THE CPU WILL NOT ADVANCE TO TS4 UNTIL IT SEES A BUS STROBE WITH NOT LAST XFER NEGATED - THIS IN TURN CAUSES INTERRUPT STROBE.

LINK LOAD SHOULD BE GIVEN IN SYNC WITH BUS STROBE AND CAUSES LINK DATA TO GO TO THE LINK.



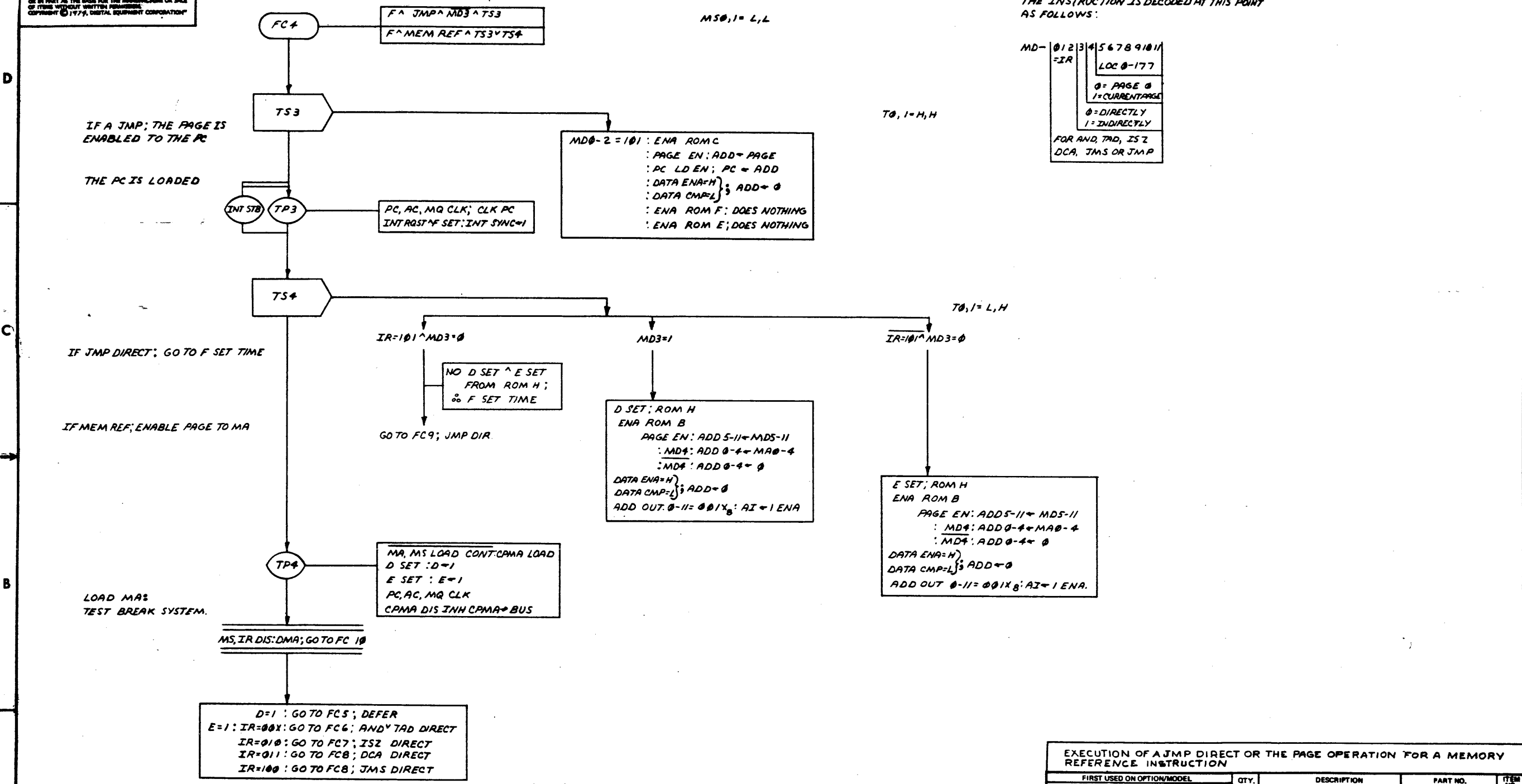
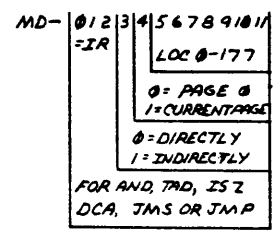
GO TO FC9

FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8A					
DIMENSIONAL TOLERANCE					
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED					
MILLIMETERS	INCHES	ANGLES	PARTS LIST		
±0.10	±0.005	±0.5°	DRN. J. Charin	DATE 11-6-74	digital
±0.05	±0.002		CHK'D BY J. E. Brown	DATE 12/3/74	
±0.25	±0.01		ENG. J. E. Brown	DATE 1-21-75	
			PROJ. ENG. J. E. Brown	DATE 1-21-75	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	TITLE		
			FLOW DIAGRAM M8315 FC3		
MATERIAL	FINISH	B-DD-KK8A-0	SIZE CODE	NUMBER	REV.
			DFD	M8315-0-19	
SHEET 1 OF 1		DIST.			

REV.	
CHANGE NO.	
REVISIONS	

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THE INSTRUCTION IS DECODED AT THIS POINT AS FOLLOWS:



REVISIONS

REV.	DATE	DESCRIPTION
1		
2		

EXECUTION OF A JMP DIRECT OR THE PAGE OPERATION FOR A MEMORY REFERENCE INSTRUCTION

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8A				
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN. & CLEAN	DATE	
DIMENSIONS ARE MILLIMETERS INCHES		DATE	11-12-79	
UNLESS OTHERWISE SPECIFIED		DATE	12/1/79	
MILLIMETERS	INCHES	ANGLES	DATE	1-2-79
XJX ±0.10	JOK ±0.08	30° 20'	DATE	1-2-79
XJX ±0.05	JOK ±0.04		DATE	1-2-79
X ±0.2	X ±0.1		DATE	1-2-79
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSEMBLY		
MATERIAL	FINISH	SCALE	SIZE CODE	NUMBER
		1 OF 1	B-DD-KKBA-0	D FD M8315-0-20
				REV.

M8315-0-20

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A MEMORY READ IS STARTED
 INDICATOR INFORMATION IS PLACED ON DATA BUS

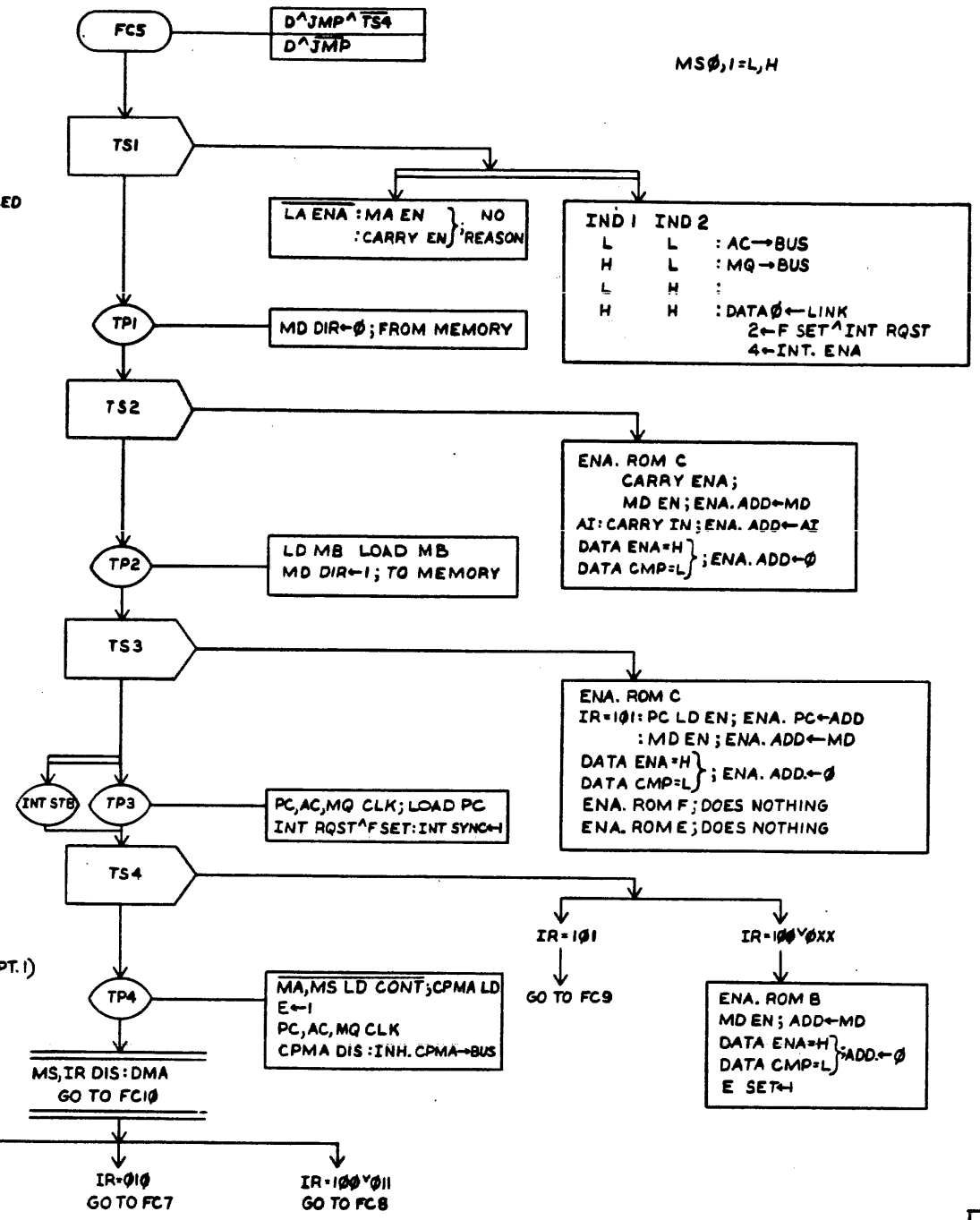
THE ADDRESS WILL APPEAR ON THE MD LINES
 MEMORY DATA+AI GOES TO MEMORY BUFFER (AI= ADDRESS 0000-0017)

MEMORY BUFFER IS LOADED AND PLACED ON MD LINES

A MEMORY WRITE IS STARTED
 IF JMP; ENABLE MD TO THE PC

IF JMP; LOAD THE PC

IF JMP; GO TO F SET TIME
 IF JMP; GO TO E SET
 MA←MD (PLACES THE OPERAND ADDRESS IN THE MA) (THE EMA LINES MAY HAVE CHANGED-SEE OPT.1)



T0, I=L, L

T0, I=H, L

T0, I=H, H

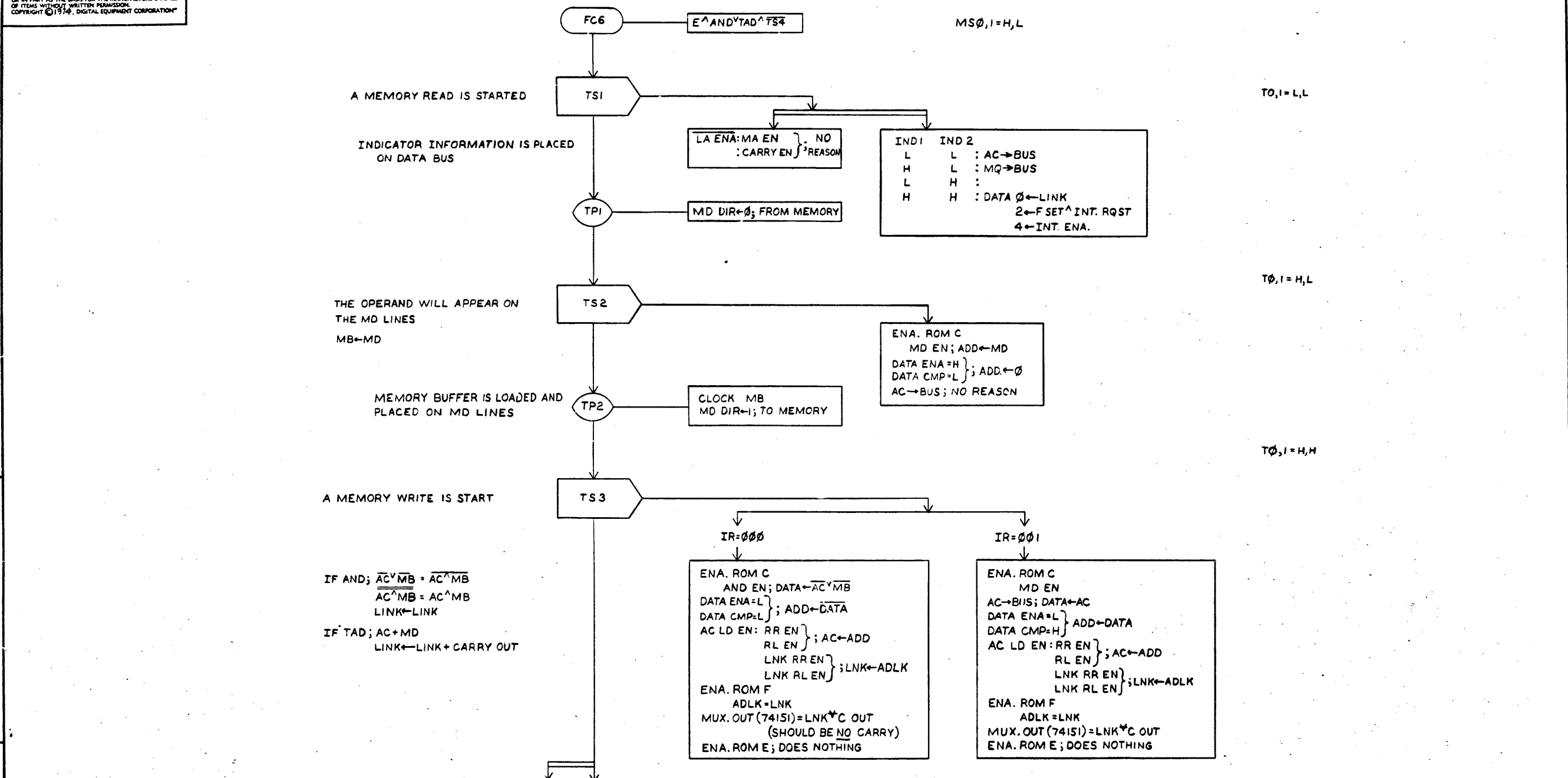
T0, I=L, H

EXECUTION OF A JUMP INDIRECT OR CALCULATING THE INDIRECT ADDRESS FOR AND, TAD, DCA, ISZ OR JMS				
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	FORM NO.
PDP8A				
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN	DATE	
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN	DATE	
		ENG	DATE	
		PROL. ENG.	DATE	
		PROD.	DATE	
THIRD ANGLE PROJECTION		NEXT HIGHER ASSEMBLY		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		MATERIAL		
		FINISH		
		B-DD-KK8A-0	SIZE CODE	NUMBER
		SCALE	DFD	M8315-0-21
		SHEET 1 OF 1	DIST.	

digital
 TITLE
 FLOW DIAGRAM
 M8315 FC5

REVISIONS
 CHANGE NO. REV.

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REV.	
CHANGE NO.	
CHK	

EXECUTION OF AN AND OR TAD			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
PDP8A			
PARTS LIST			
DRAWN	DATE	digital	
CHKD BY	DATE	TITLE	
ENG.	DATE	FLOW DIAGRAM	
PROJ. ENG.	DATE	M8315 FC6	
PROD.	DATE	SIZE CODE	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	NUMBER
MATERIAL	FINISH	B-DD-KK8A- \emptyset	D F D M8315-0-22
SCALE	FINISH	SHEET 1 OF 1	DIST.

REV. 11-11-74
 D F D M8315-0-22

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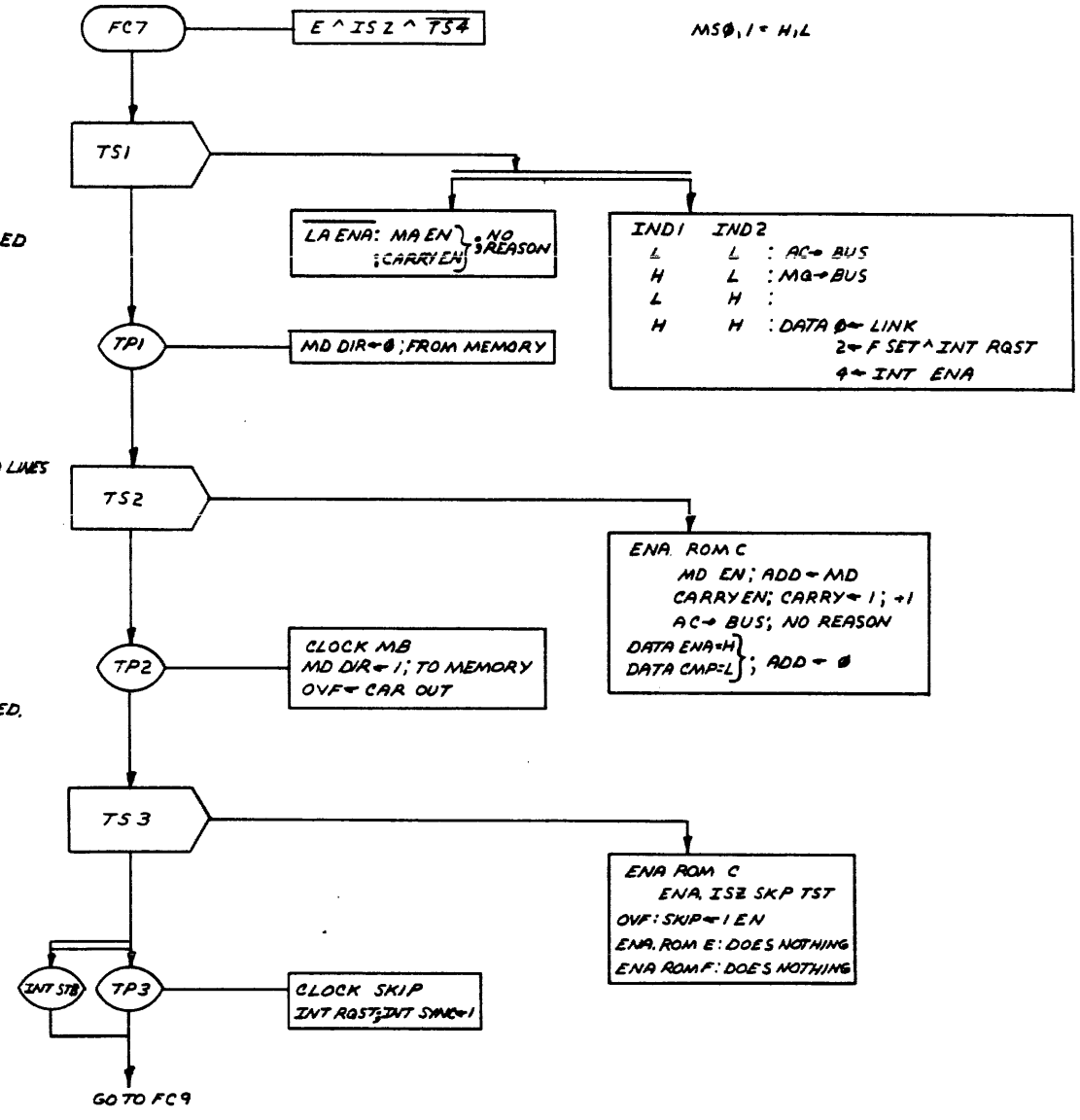
A MEMORY READ IS STARTED

INDICATOR INFORMATION IS PLACED ON DATA BUS

THE OPERAND WILL APPEAR ON THE MD LINES MB ← MD + 1

THE INCREMENTED MD IS SAVED IN THE MB AND PLACED ON THE MD LINES; THE CARRY IS SAVED.

SET SKIP = OVER FLOW



T0,1 = L, L

T0,1 = H, L

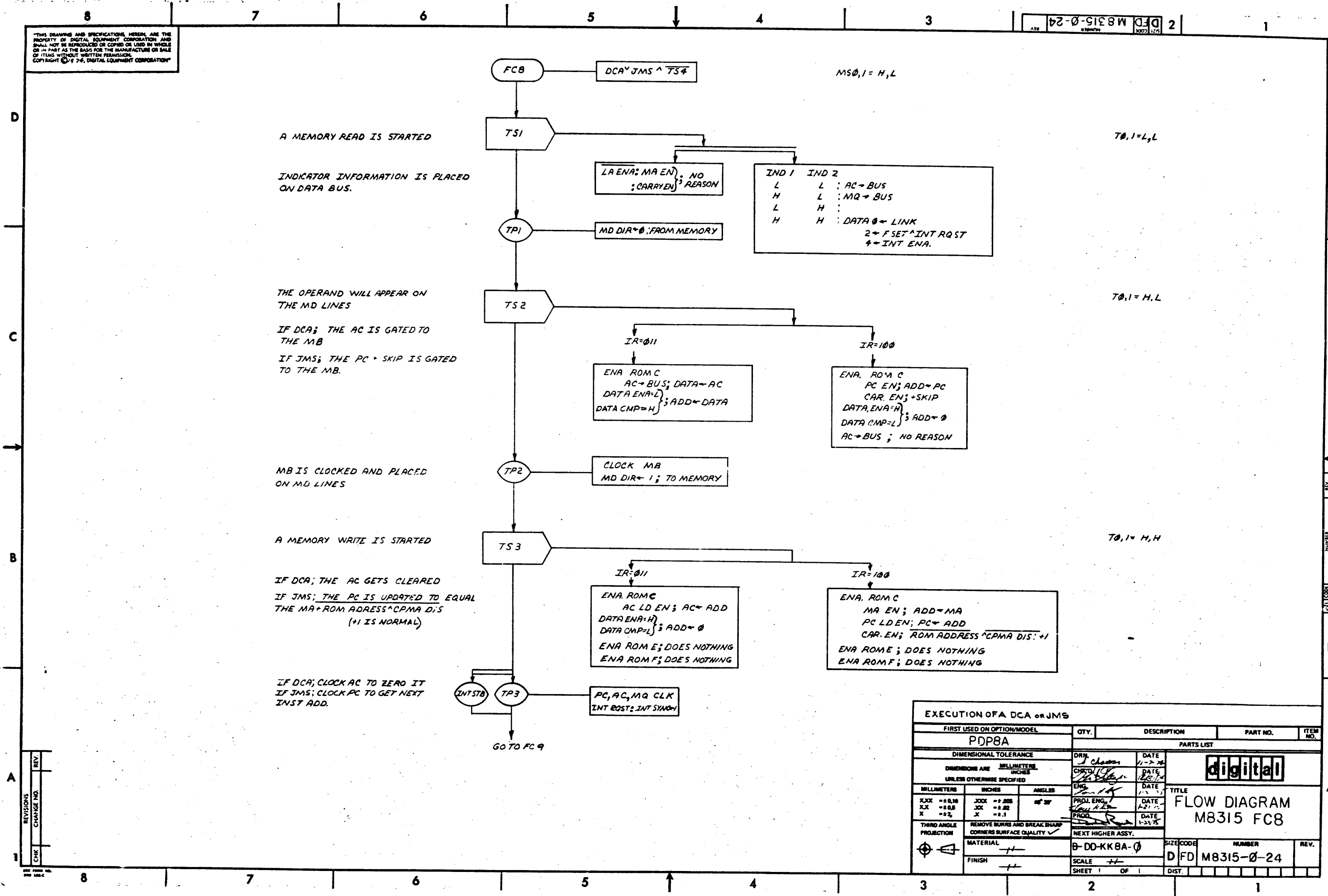
T0,1 = H, H

EXECUTION OF AN ISZ				QTY.	DESCRIPTION	PART NO.	ITEM NO.
FIRST USED ON OPTION/MODEL							
PDP8A							
DIMENSIONAL TOLERANCE				DRN	DATE	PARTS LIST	
DIMENSIONS ARE MILLIMETERS				CHKD	DATE	digital	
UNLESS OTHERWISE SPECIFIED				ENG	DATE	TITLE	
MILLIMETERS	INCHES	ANGLES	PROJ. ENG.	DATE	FLOW DIAGRAM		
±0.08	±0.003	±0°30'	DATE	DATE	M8315 FC7		
±0.05	±0.002		PROD.	DATE			
±0.2	±0.1			DATE			
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.					
MATERIAL	FINISH	B-DD-KK8A-0	SIZE CODE	NUMBER	REV.		
			D	FD	M8315-0-23		
			SHEET	OF	DIST.		

REV.	CHANGE NO.
1	

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REV. 2
D FD M8315-0-24



EXECUTION OF A DCA OR JMS			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO. ITEM NO.
PDP8A			
PARTS LIST			
DRAWN	DATE	digital	
CHKD	DATE		
ENG	DATE		
PRD. ENG.	DATE		
PROJ.	DATE	TITLE	
THIRD ANGLE PROJECTION		FLOW DIAGRAM M8315 FC8	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		NEXT HIGHER ASSY.	
MATERIAL		SIZE CODE	NUMBER
FINISH		B-DD-KK8A-0	D FD M8315-0-24
SCALE		SHEET	OF
DIST.			

REV. 2
D FD M8315-0-24

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IF NO INTERRUPT, PREPARE TO GET NEXT INSTRUCTION
 PC ← SKIP → MA
 IF INTERRUPT, EXECUTE A JMS TO LOCATION φ

FC9 F SET TIME MSφ, I=X,X

TS4 Tφ, I=L,H

ENA. ROM B
 INT. IN PROG ^F V D V E : PC EN; ADD ← PC
 : CAR. EN: SKIP; CAR ← 1; ADD ← SKIP
 : F SET ← 1
 INT. IN PROG : NO ENABLES; ADD ← φ
 : JMS → IR ENA.
 : E SET ← 1

IF OPI: ENABLE 74S158 ROTATE MUX;

MD	0	9	
	0	0	NOP
	0	1	RL EN ROTATE LEFT
	1	0	RR EN ROTATE RIGHT
	1	1	RR EN, RL EN LOAD; SHOULD NOT BE USED

TP3 1/2 OPI ^ MD φ : PC, AC, MQ CLK

MA, MS LOAD CONT: CPMA LOAD
 F SET: F ← 1
 E SET: E ← 1
 : IR ← JMS; IR φ - 2 = I φ φ
 PC, AC, MQ CLK
 CPMA DIS: INH CPMA → BUS

CLOCK THE MA

TP4


MS, IR DIS: DMA
 GO TO FC I φ

F
 GO TO FC I

E
 GO TO FC 8
 AN INTERRUPT HAS BEEN ALLOWED

REV.	
CHANGE NO.	
CHK	

GETTING ADDRESS OF NEXT INSTRUCTION, OR ANSWERING INTERRUPT

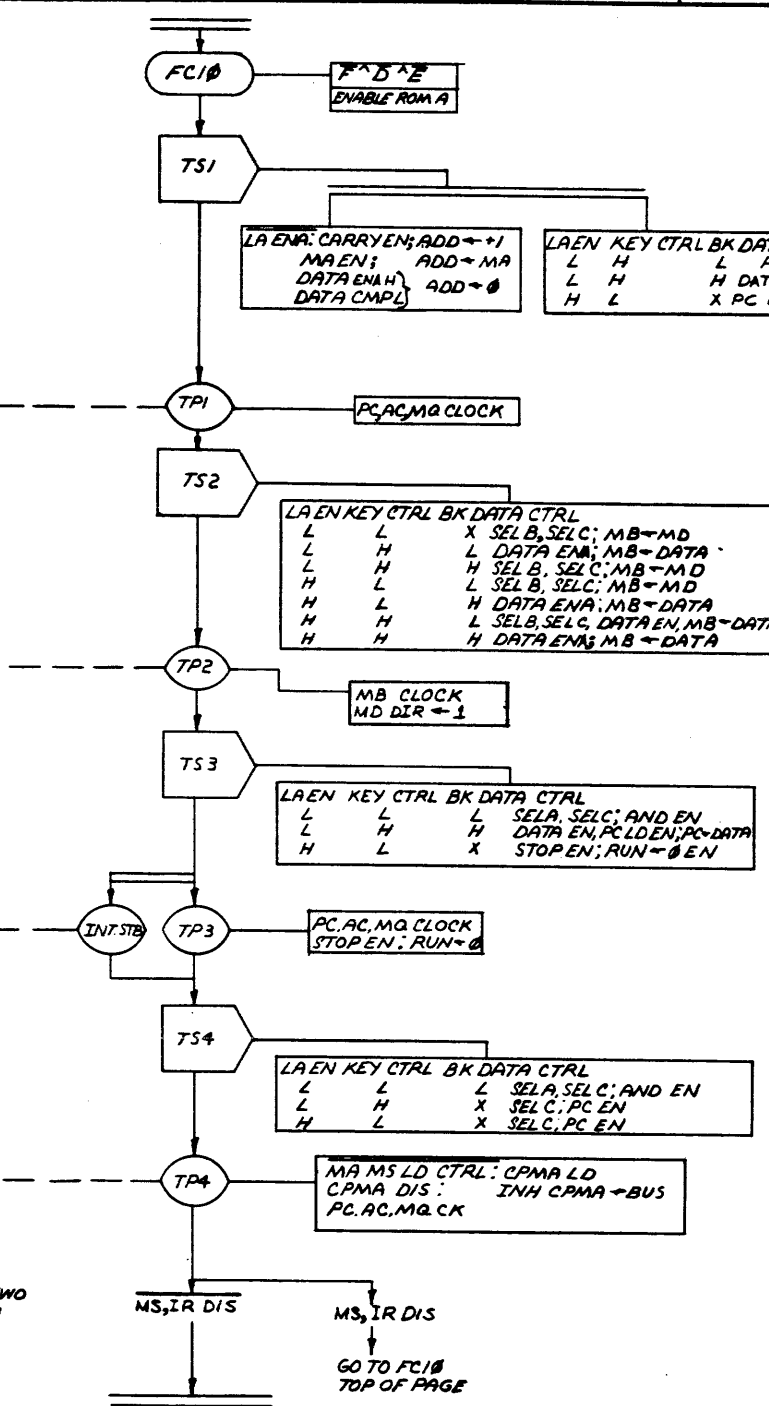
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8A				
DIMENSIONAL TOLERANCE		PARTS LIST		
DIMENSIONS ARE MILLIMETER UNLESS OTHERWISE SPECIFIED				
MILLIMETERS	INCHES	ANGLES	TITLE	
X,XX - ±0.25	XXX - ±0.005	° 0' 0"	FLOW DIAGRM	
X,XX - ±0.5	XX - ±0.01	° 0' 0"	M8315 FC9	
X - ±0.5	X - ±0.3			
TYPED AND PRODUCTION	REMOVE DIMENSION CHECKS	NEXT HIGHER ASSY.		
MATERIAL	FINISH	SCALE	SIZE CODE	NUMBER
			DD-KK8A-	DFD M8315-0-25
		SHEET	OF	REV.

REV. 1
 PART NO. DFD M8315-0-25

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THE BREAK CONTROL WORD (LA, EN KEY CTRL BK DATA CTRL) IS NORMALLY SET UP AT THE BEGINNING OF THE DMA CYCLE AND REMAINS STABLE FOR THE ENTIRE CYCLE. IT DEFINES OPERATIONS AS FOLLOWS.

LA EN KEY CTRL BK DATA CTRL	H H H	H H L	H L H	H L L	L H H	L H L	L L H	L L L
DATA TO MEM	ADD TO MEM	CON DEPOSIT	CON EXAMINE	LOAD ADD	BOOT DEPOSIT	LOAD FIELD 0	LOAD FIELD 1	LOAD FIELD 7
THE CONTENTS OF THE DATA LINES GO TO THE MB	THE CONTENTS OF THE MD LINES PLUS THE CONTENTS OF THE DATA LINES GO TO THE MB	THE CONTENTS OF THE DATA LINES GO TO THE MB	THE CONTENTS OF THE MD LINES GO TO THE MB	THE CONTENTS OF THE MD LINES GO TO THE MB	THE CONTENTS OF THE MD LINES GO TO THE MB	THE CONTENTS OF THE MD LINES GO TO THE MB	THE CONTENTS OF THE MD LINES GO TO THE MB	THE CONTENTS OF THE MD LINES GO TO THE MB
THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY	THE MB IS WRITTEN INTO MEMORY
		RUN IS CLEARED	RUN IS CLEARED	THE CONTENTS OF THE DATA LINES GO TO THE PC				
					CAUTION: "AND EN" CAUSES THE DATA BUS TO = 7777 THIS DEPENDS UPON THE AC: 0000 THE CONTENTS OF THE DATA LINES GOES TO THE MEMORY EXTENSION CONTROLS IB, DF AT TP3			
		THE PC GOES TO THE MA	THE PC GOES TO THE MA	THE PC GOES TO THE MA	THE PC GOES TO THE MA	AND IF AT TP4	AND IF AT TP4	



MS0,1 = H, H
 T0,1 = L, L
 T0,1 = H, L
 T0,1 = H, H
 T0,1 = L, H

TO DO A TRANSFER OF DATA TO A DEVICE DO AN ADD TO MEM WITH THE DATA LINES EQUAL TO 0 AND TAKE DATA FROM THE MD LINES AT TP3.

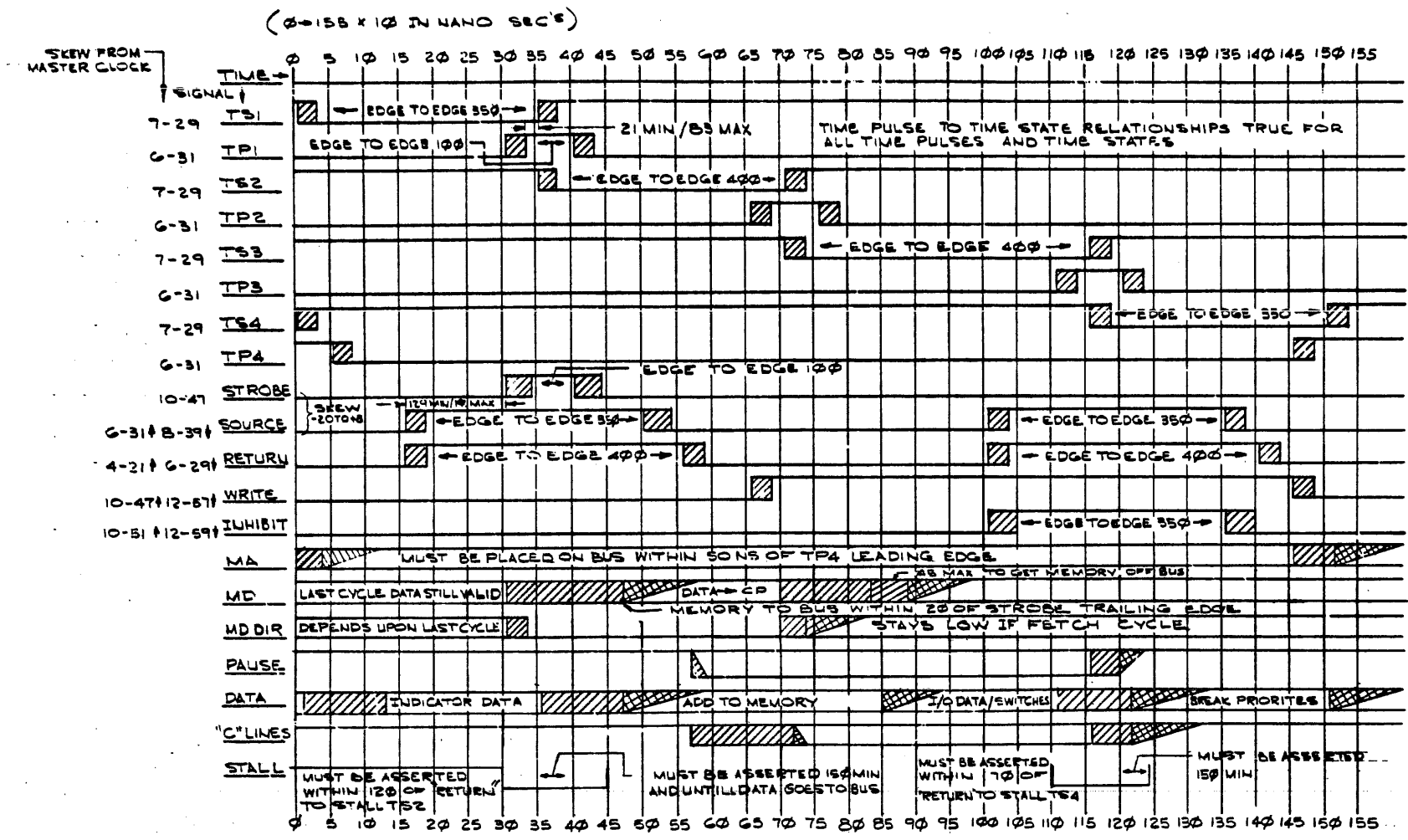
SWITCH SELECTED 1ST CYCLE OR 1ST CLECLE
 THESE ARE THE 1ST TWO CYCLES DURING A CPU AUTO RESTART

DATA BREAK/CONSOLE OPERATIONS/AUTO RESTART			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
PDP8A			
DIMENSIONAL TOLERANCE			
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRN. DATE 11-7-74	DATE 12/1/74
MILLIMETERS		ENG. DATE 1-21-75	DATE 1-21-75
XJX ±0.10	J00X ±0.008	PROL. ENG. DATE 1-21-75	DATE 1-21-75
XJ ±0.05	JX ±0.1	PROD. DATE 1-21-75	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	
MATERIAL	FINISH	B DD KK 8A-0	SIZE CODE NUMBER REV.
		SCALE	D FD M8315-0-26
		SHEET 1 OF 1	DIST.

REV.	CHG.	NO.
1		

REV. 2 DFD M8315-0-26

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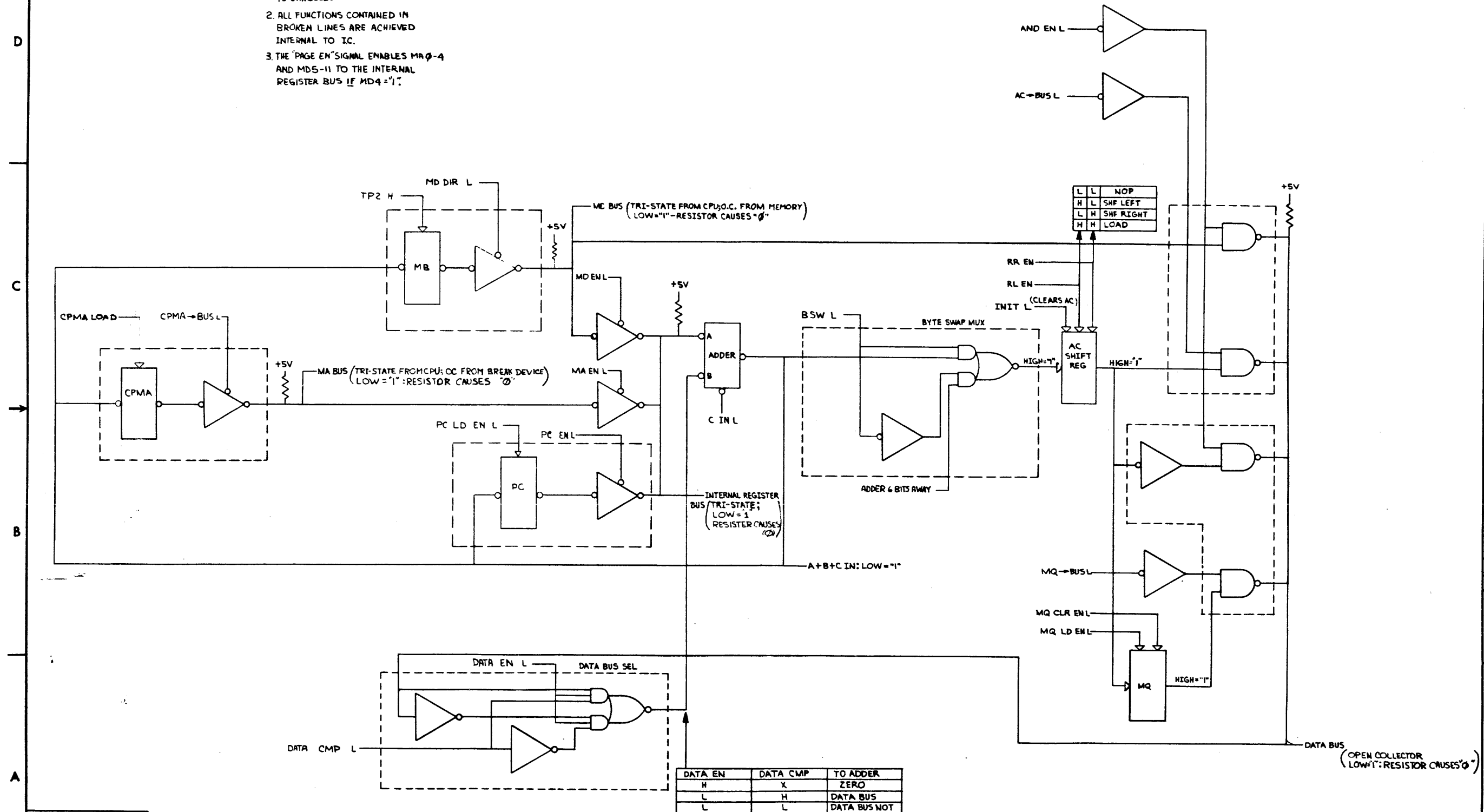


REV.	NO.	DATE
1	1	7-27-75

8A DATA PATH FUNCTION & TIMING			
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.
PDP8			
PARTS LIST			
DIMENSIONAL TOLERANCE		DATE	DATE
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		11/22/74	1/25/75
MILLIMETERS	INCHES	ANGLES	DATE
XX.X ±0.10	XXX ±0.08	30° 30'	1-27-75
XX ±0.8	XX ±0.02		7-27-75
X ±0.2	X ±0.1		1-23-75
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	
MATERIAL	FINISH	SIZE CODE	NUMBER
		B-DD-KK8A-3	D FD M8315-0-27
		SCALE	REV.
		SHEET 1 OF 2	

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- NOTES:
1. THE PC, AC AND MQ ARE LOADED BY PC, AC, MQ CLK IF THE LOAD IS ENABLED.
 2. ALL FUNCTIONS CONTAINED IN BROKEN LINES ARE ACHIEVED INTERNAL TO IC.
 3. THE PAGE EN SIGNAL ENABLES MQ-4 AND MDS-11 TO THE INTERNAL REGISTER BUS IF MD4 = "1".

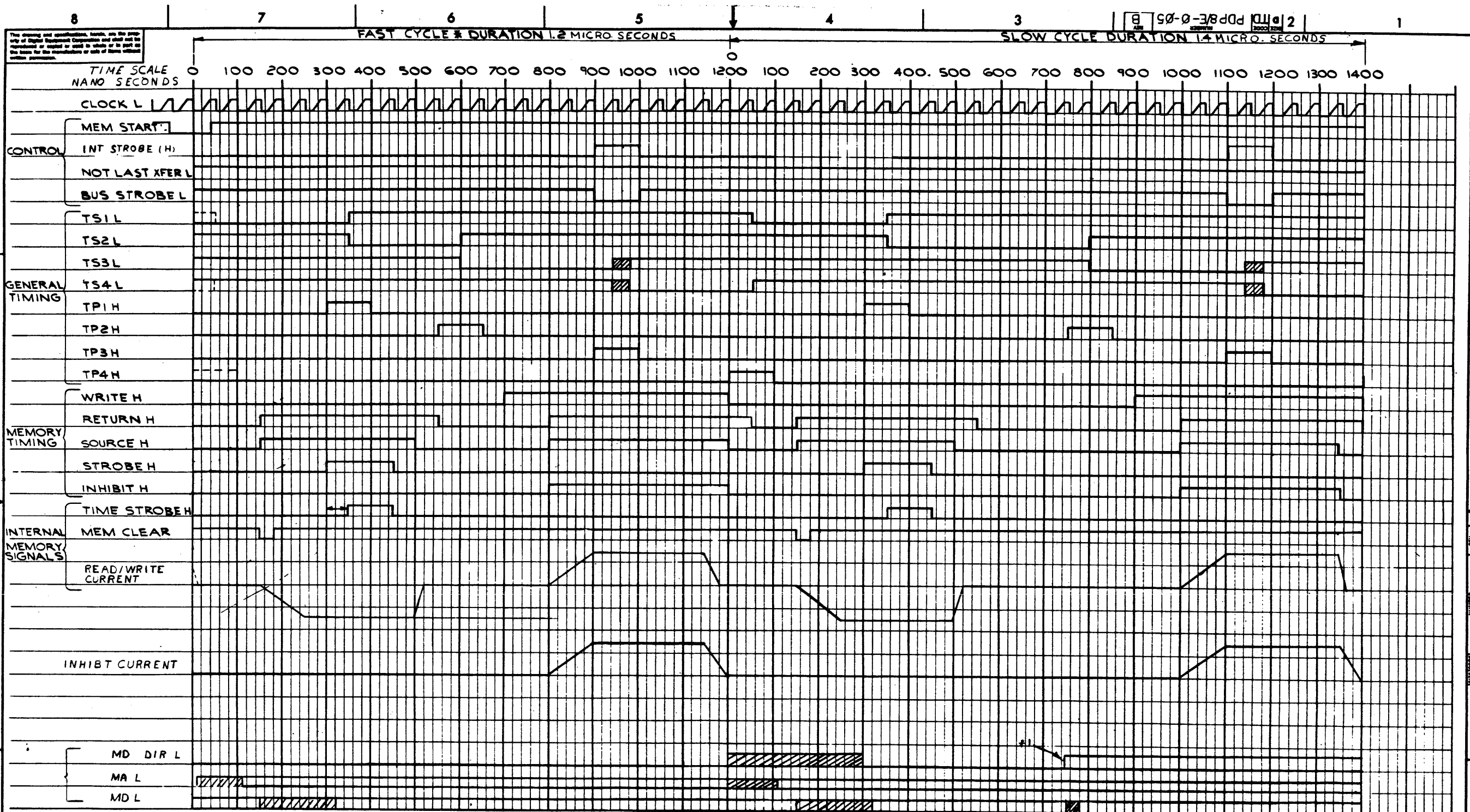


DATA EN	DATA CMP	TO ADDER
H	X	ZERO
L	H	DATA BUS
L	L	DATA BUS NOT

REVISIONS		
CHK	CHANGE NO.	REV.

DATA PATH FUNCTIONS			
TITLE	SIZE/DOOR	NUMBER	REV.
FLOW DIAGRAM M8315 BUS TIMING	D FD	M8315-0-27	
SCALE	SHEET 2 OF 2	DIST.	

REV. 1 DFD M8315-0-27

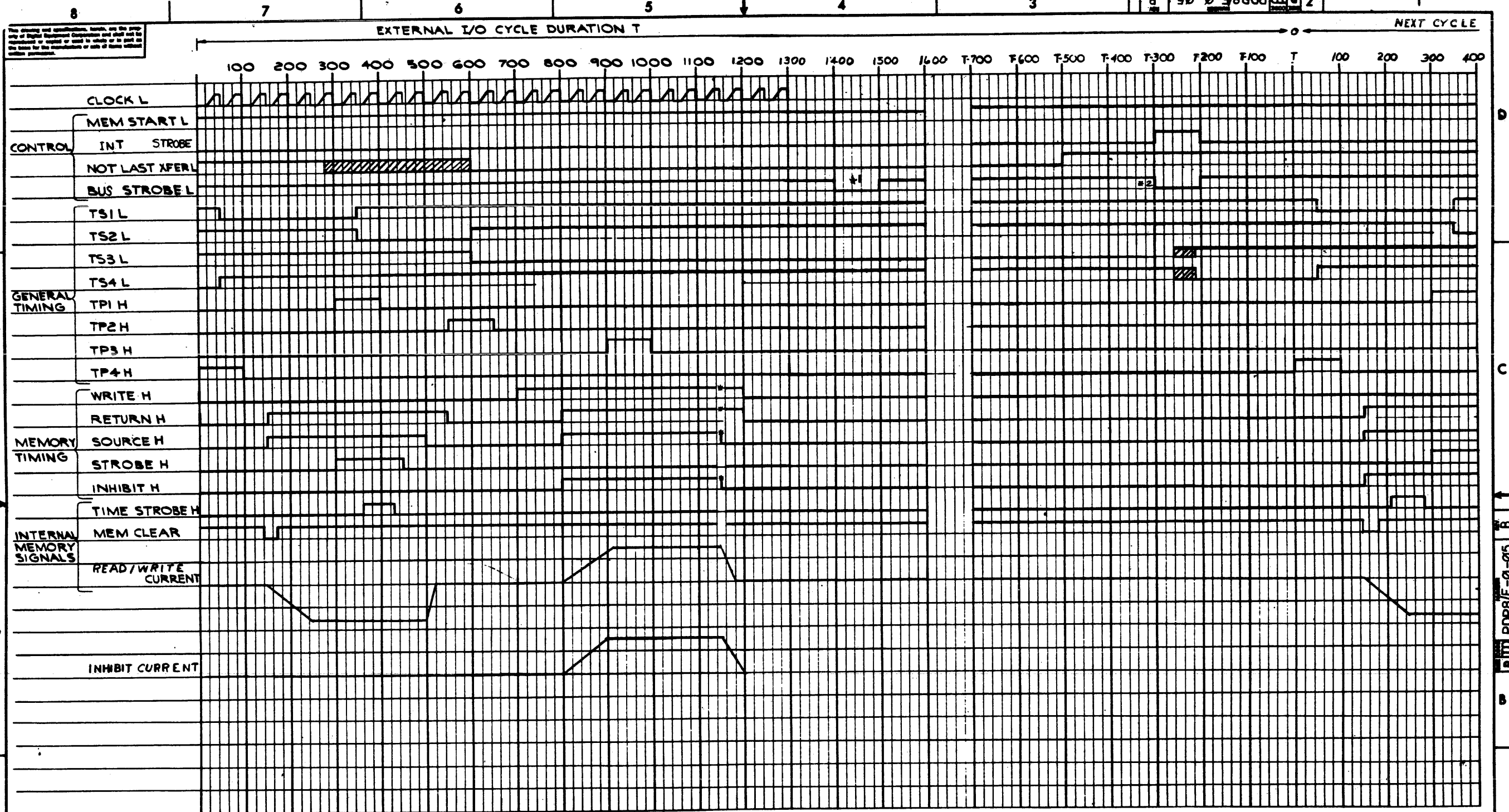


*THIS PLOT SHOWS AN INITIAL FAST CYCLE
 THE DOTTED LINES INDICATE A REGULAR CYCLE
 #1: MD DIR GOES LOW ONLY IF F+ [D-AUTO INDEX]

CIRCUIT DELAYS ARE NEGLECTED IN THIS TIMING DIAGRAM

REVISES	REV.	A
CHANGE NO.	BE-00049	B
DATE	11-10-71	
BY	L. KLOTZ	
APPROVED		

FIRST USED ON OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8/E				
UNLESS OTHERWISE SPECIFIED	DATE	DATE	DATE	DATE
TOLERANCES	1/16	1/32	1/64	1/128
ANGLES	45°	90°	120°	135°
FINISH	AS SUPPLIED	24	2	1
MATERIAL	NEXT HIGHER ASSY			
FINISH	A-ML-PDP8/E-0			
SCALE	NONE			
SHEET	1 OF 2			
PARTS LIST		EQUIPMENT CORPORATION MAYFORD, MASSACHUSETTS		
TITLE		TIMING (PDP8/E)		
SIZE CODE	NUMBER	REV.		
D1D	PDP8/E-0-05	B		
DIST.				

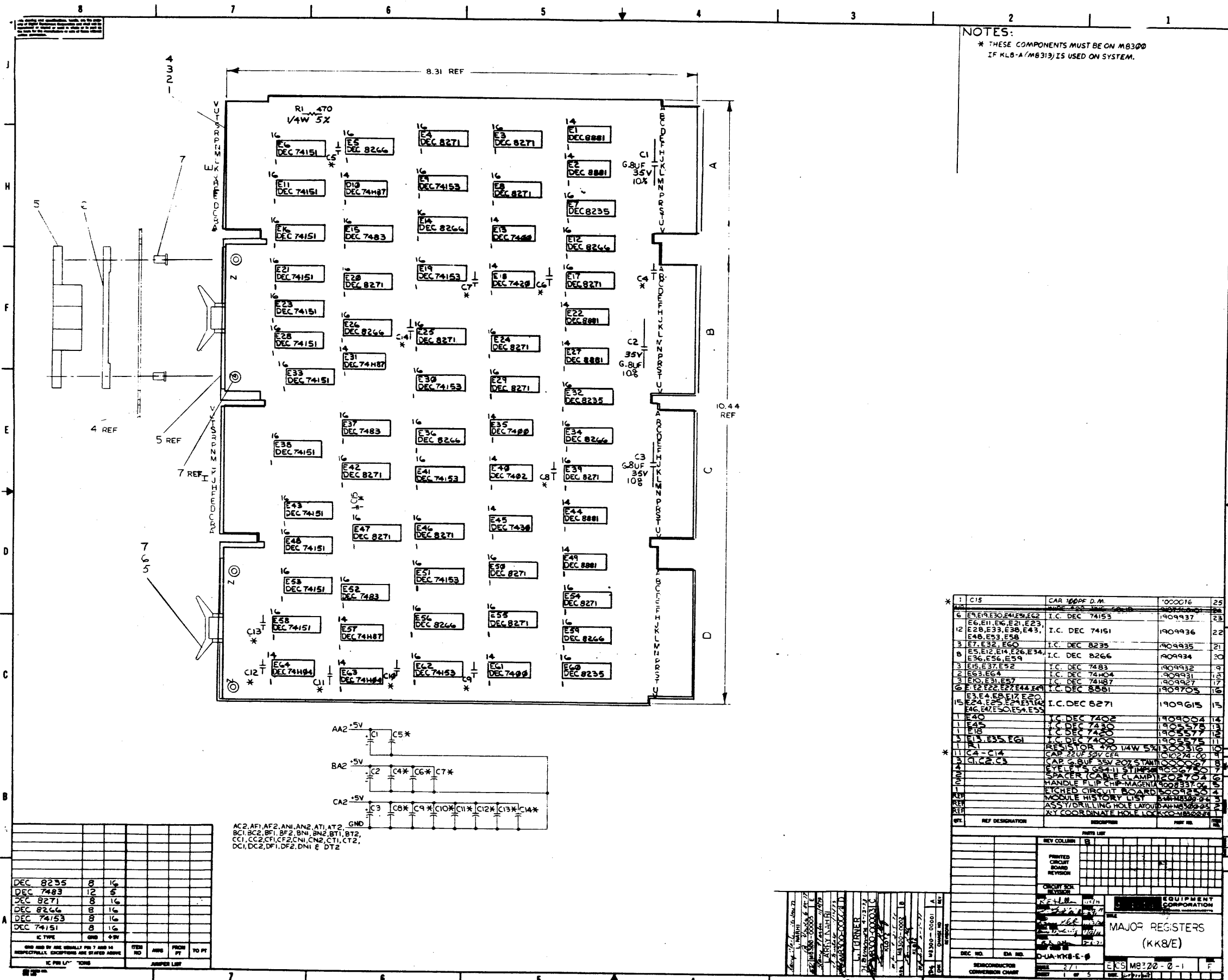


NOTE: * MEMORY SIGNALS TIME OUT, AS IN A FAST CYCLE
 * 1 GENERATED BY PERIPHERAL TO STROBE DATA
 * 2 GENERATED BY PERIPHERAL TO TERMINATE EXT. I/O CYCLE AND RESUME NORMAL OPERATION.

REV.	
CHANGE NO.	

FIRST USED OR OPT/MOD	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8/E				
UNLESS OTHERWISE SPECIFIED				
TOLERANCES				
DIMENSIONS				
FRAGILE SURFACE QUALITY				
GENERAL DIMENSIONS AND SURFACE FINISH				
DATE				
NEXT HIGHER ASSY				
A-ML-PDP8/E-0				
SCALE NONE				
SHEET 2 OF 2				
TITLE			PART NO.	
TIMING (PDP8/E)			PDP8/E-0-05 B	
DRAWN			CHKD	
DTD			PDP8/E-0-05 B	

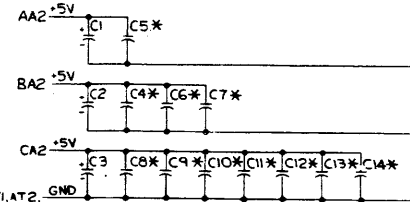
PDP8/E-0-05 B



NOTES:
 * THESE COMPONENTS MUST BE ON M8300
 IF KLB-A/M8319 IS USED ON SYSTEM.

IC TYPE	QTY	REF	GRID
DEC 8235	8	16	
DEC 7483	12	5	
DEC 8271	8	16	
DEC 8266	8	16	
DEC 7453	8	16	
DEC 7451	8	16	

AC2, AF1, AF2, AN1, AN2, AT1, AT2
 BC1, BC2, BF1, BF2, BN1, BN2, BT1, BT2
 CC1, CC2, CF1, CF2, CN1, CN2, CT1, CT2
 DC1, DC2, DF1, DF2, DN1, E, DT2

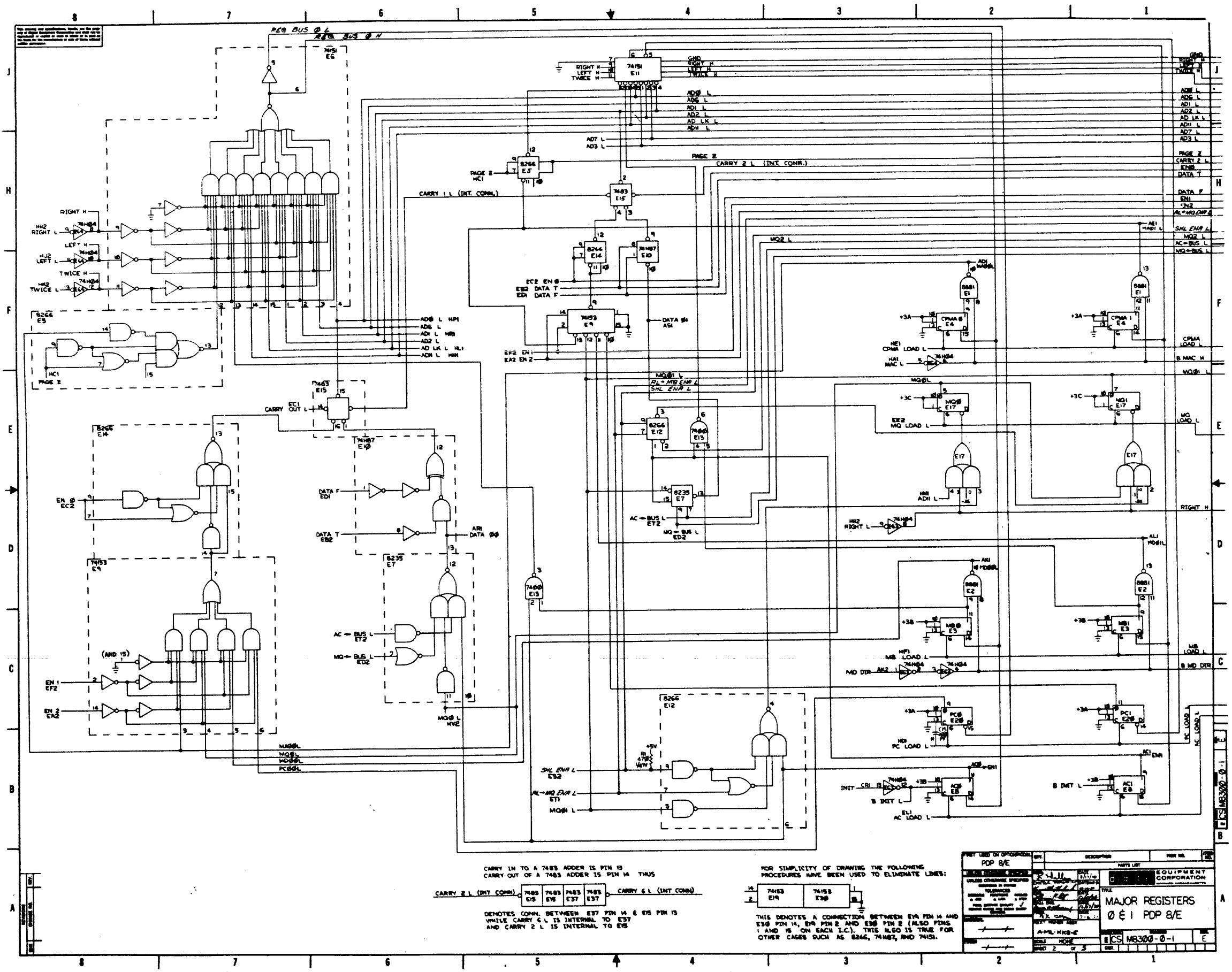


REF	REF DESIGNATION	DESCRIPTION	QTY	PART NO.
1	C15	CAR 100PF D.M.	1	1000016
2	E19, E30, E41, E21, E23	I.C. DEC 74153	1	1909937
3	E7, E32, E60	I.C. DEC 8235	1	1909935
4	E5, E12, E14, E26, E34, E36, E56, E59	I.C. DEC 8266	1	1909934
5	E15, E37, E52	I.C. DEC 7483	1	1909932
6	E63, E64	I.C. DEC 7404	1	1909931
7	E10, E31, E57	I.C. DEC 74151	1	1909927
8	E12, E22, E27, E44, E49	I.C. DEC 8881	1	1909703
9	E3, E4, E5, E17, E20, E24, E25, E27, E31, E32, E46, E47, E50, E54, E55	I.C. DEC 8271	1	1909615
10	R1	I.C. DEC 7402	1	1909004
11	E4	I.C. DEC 7430	1	1909578
12	E18	I.C. DEC 7420	1	1909577
13	E13, E35, E61	I.C. DEC 7400	1	1909575
14	C4 - C14	RESISTOR 470 1/4W 5%	10	1909316
15	C1, C2, C3	CAP 22UF 35V	3	1909274
16	C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14	CAP 22UF 35V 20% STAN	14	1909273
17		EYELETS 05411 STIMP	8	1909272
18		SPACER (CABLE CLAMP)	2	1909271
19		HANDLE FLIP CHIP-MAGENTA	1	1909270
20		ETCHED CIRCUIT BOARD	1	1909269
21		MODULE HISTORY LIST	1	1909268
22		ASSY/DRILLING HOLE LAYOUT	1	1909267
23		XY COORDINATE HOLE LOCK	1	1909266

REV	REV COLUMN	REVISION
1		
2		
3		
4		
5		

MAJOR REGISTERS (KK8/E)

DEC 8235 8 16
 DEC 7483 12 5
 DEC 8271 8 16
 DEC 8266 8 16
 DEC 7453 8 16
 DEC 7451 8 16

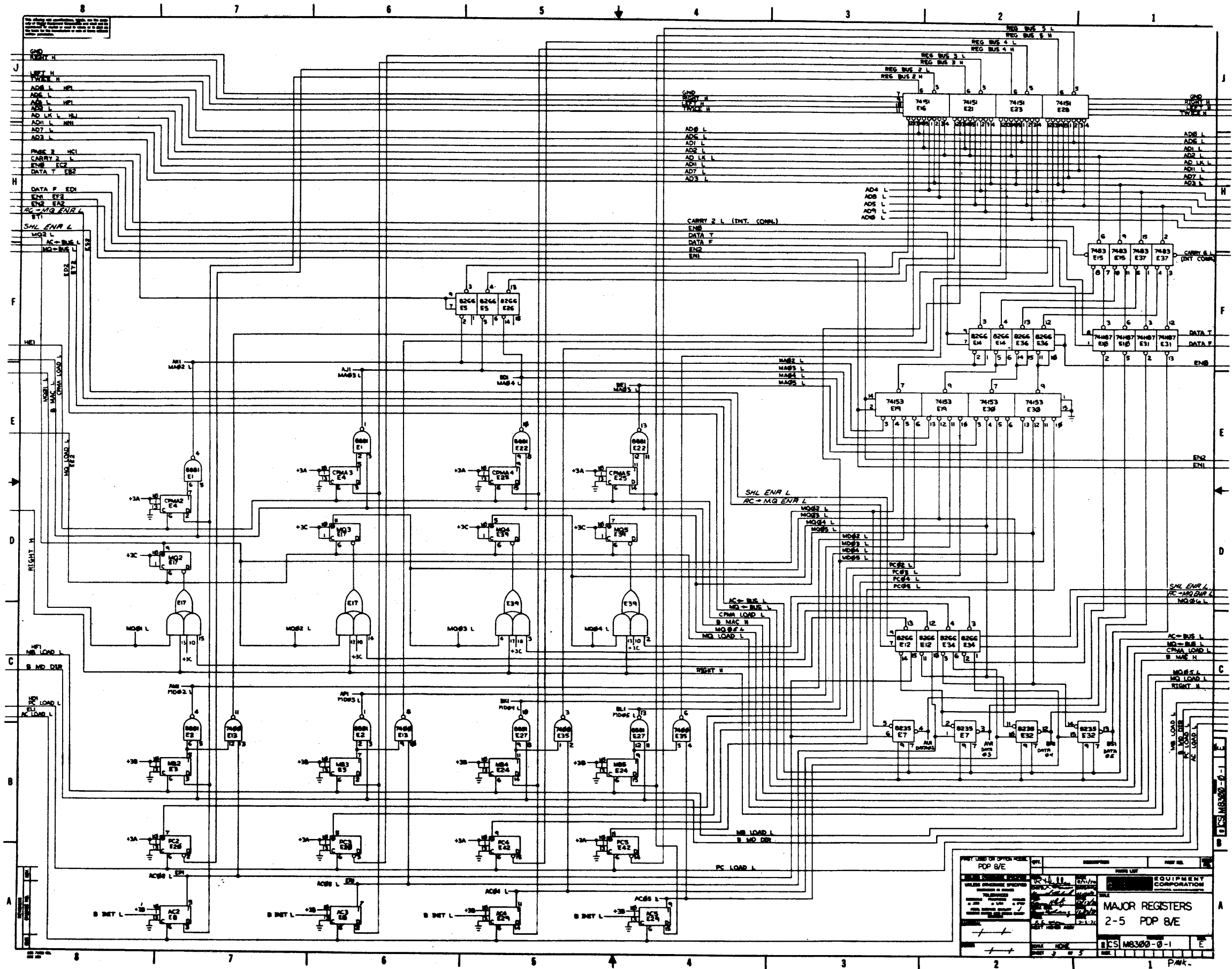


CARRY IN TO A 7483 ADDER IS PIN 13
 CARRY OUT OF A 7483 ADDER IS PIN 14. THIS
 CARRY 2 L (INT. CONN.) 7483 7483 7483 7483 CARRY 1 L (INT. CONN.)
 E15 E15 E15 E15
 DENOTES CONN. BETWEEN E17 PIN 14 & E15 PIN 13
 WHILE CARRY 1 L IS INTERNAL TO E17
 AND CARRY 2 L IS INTERNAL TO E15

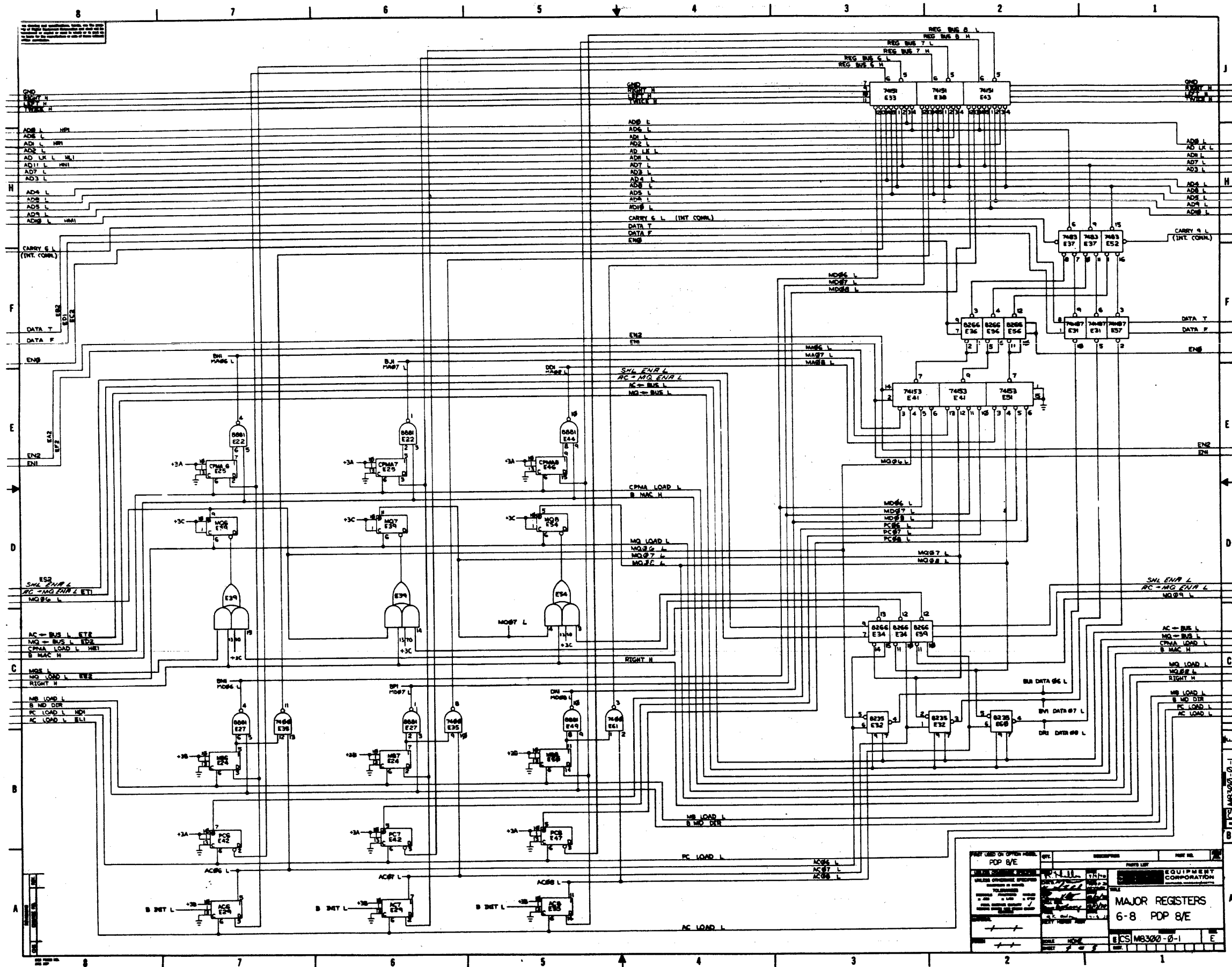
FOR SIMPLICITY OF DRAWING THE FOLLOWING
 PROCEDURES HAVE BEEN USED TO ELIMINATE LINES:
 74153 74153
 E14 E14
 THIS DENOTES A CONNECTION BETWEEN E14 PIN 14 AND
 E15 PIN 14, E14 PIN 2 AND E15 PIN 2 (ALSO PINS
 1 AND 18 ON EACH I.C.). THIS ALSO IS TRUE FOR
 OTHER CASES SUCH AS 8266, 74157, AND 74153.

REV	DESCRIPTION	REV. NO.
1	INITIAL DESIGN	1
2	REVISED DESIGN	2
3	REVISED DESIGN	3

PDP 8/E
 MAJOR REGISTERS
 0 E1 POP 8/E
 EQUIPMENT CORPORATION
 BCS M8300-0-1

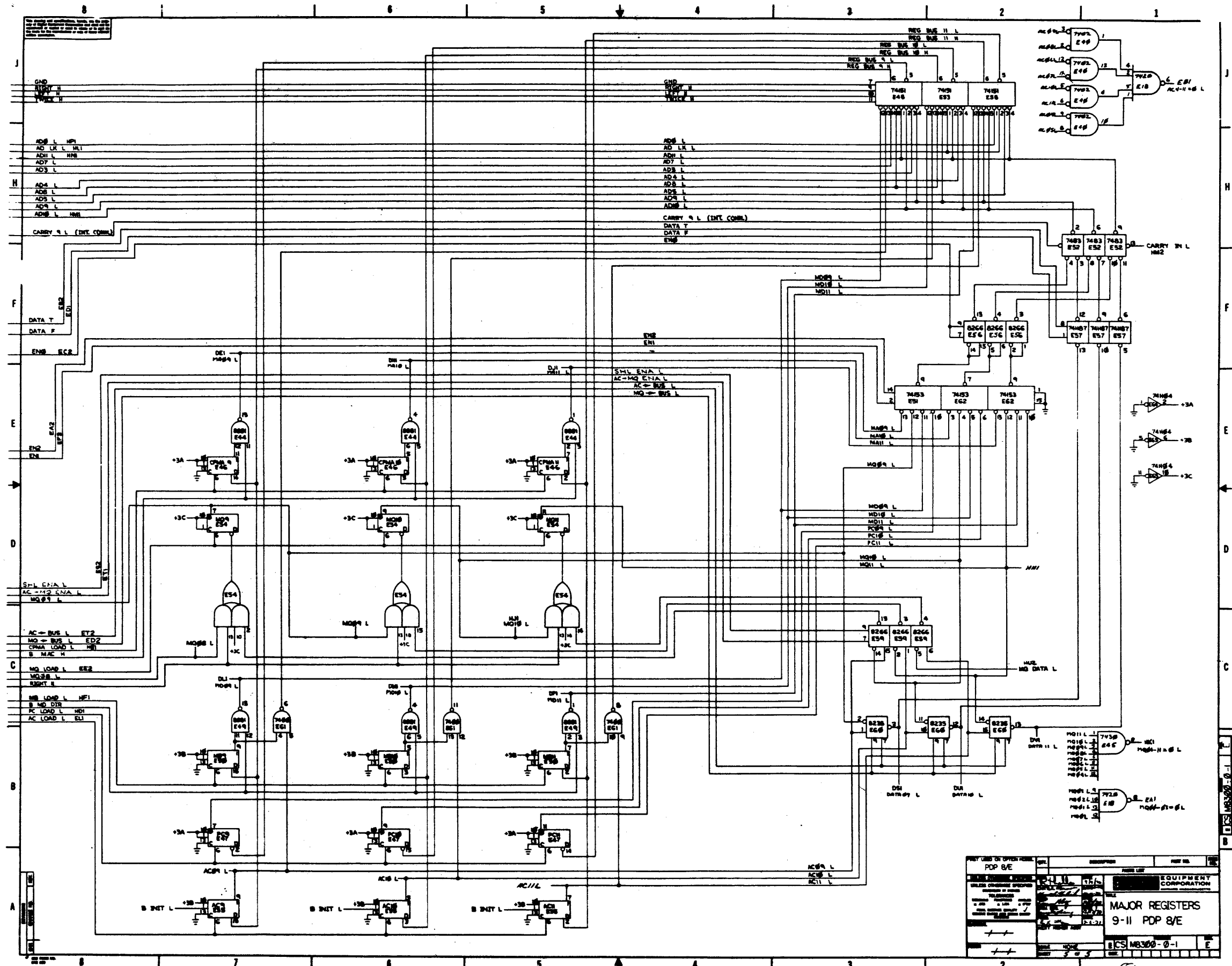


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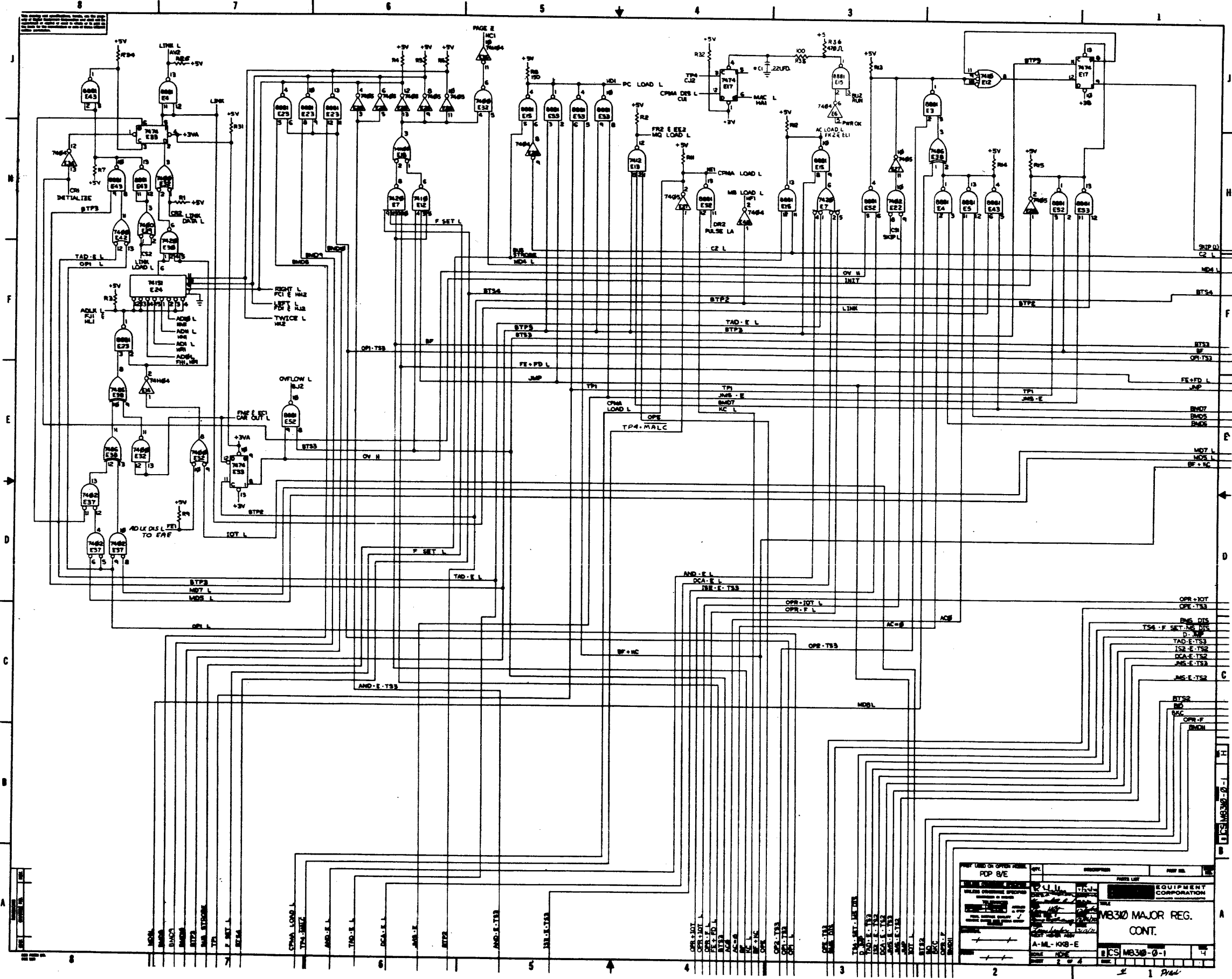


REV.	DESCRIPTION	DATE	BY
1	ISSUED FOR PDP 8/E	7/11/68	W.H.
2	REVISION		
3	REVISION		
4	REVISION		
5	REVISION		
6	REVISION		
7	REVISION		
8	REVISION		
9	REVISION		
10	REVISION		

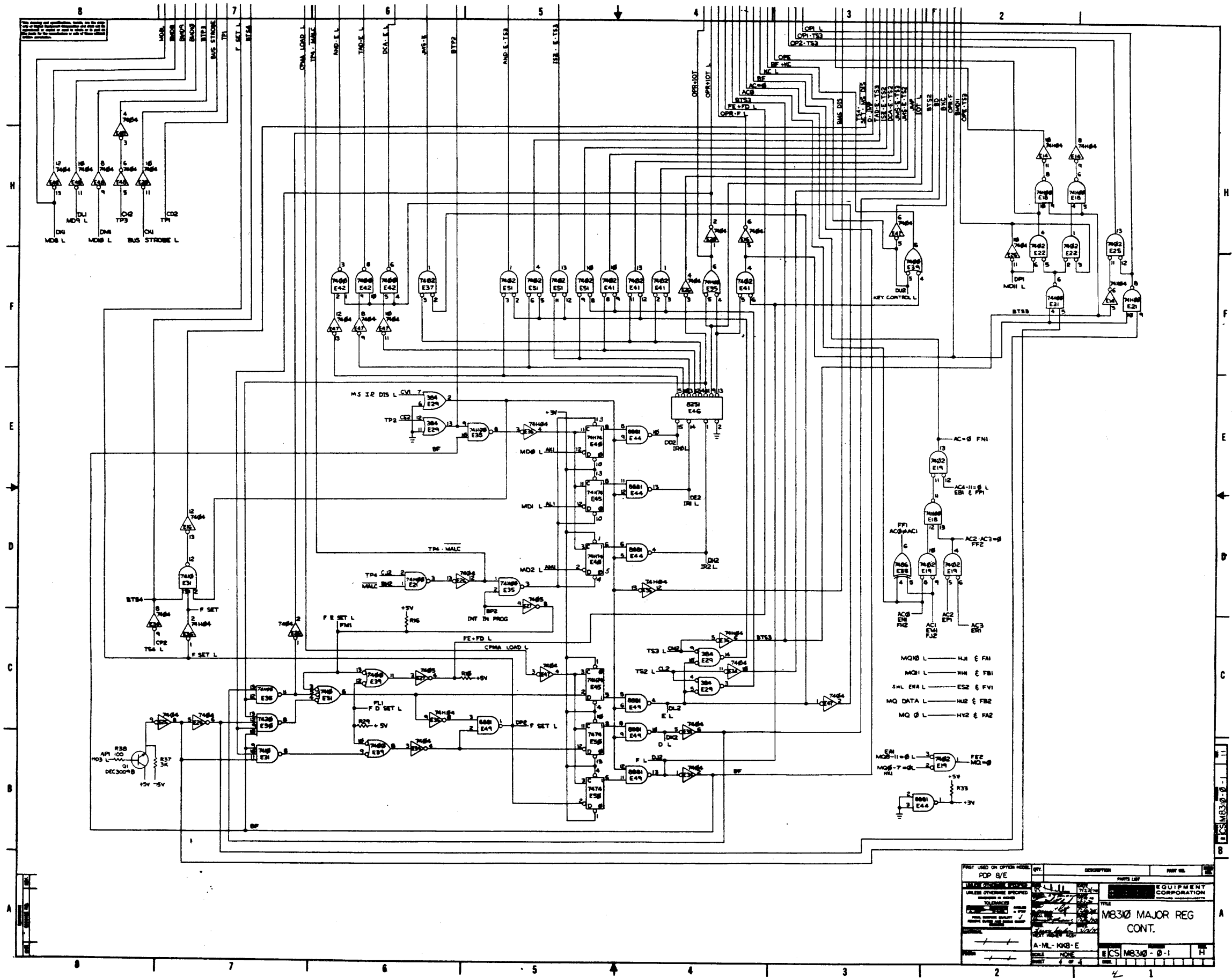
PDP 8/E		EQUIPMENT CORPORATION	
MAJOR REGISTERS			
6-8 PDP 8/E			
ECS MB300-0-1			



REV	DESCRIPTION	DATE	BY
1	POP 8/E		
2	MAJOR REGISTERS		
3	9-11 PDP 8/E		
4			
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PART USED OR OTHER PARTS PDP 8/E (List of components and quantities)	EQUIPMENT CORPORATION MB310 MAJOR REG. CONT. A-M-1008-E ICS MB310-0-1
--	--

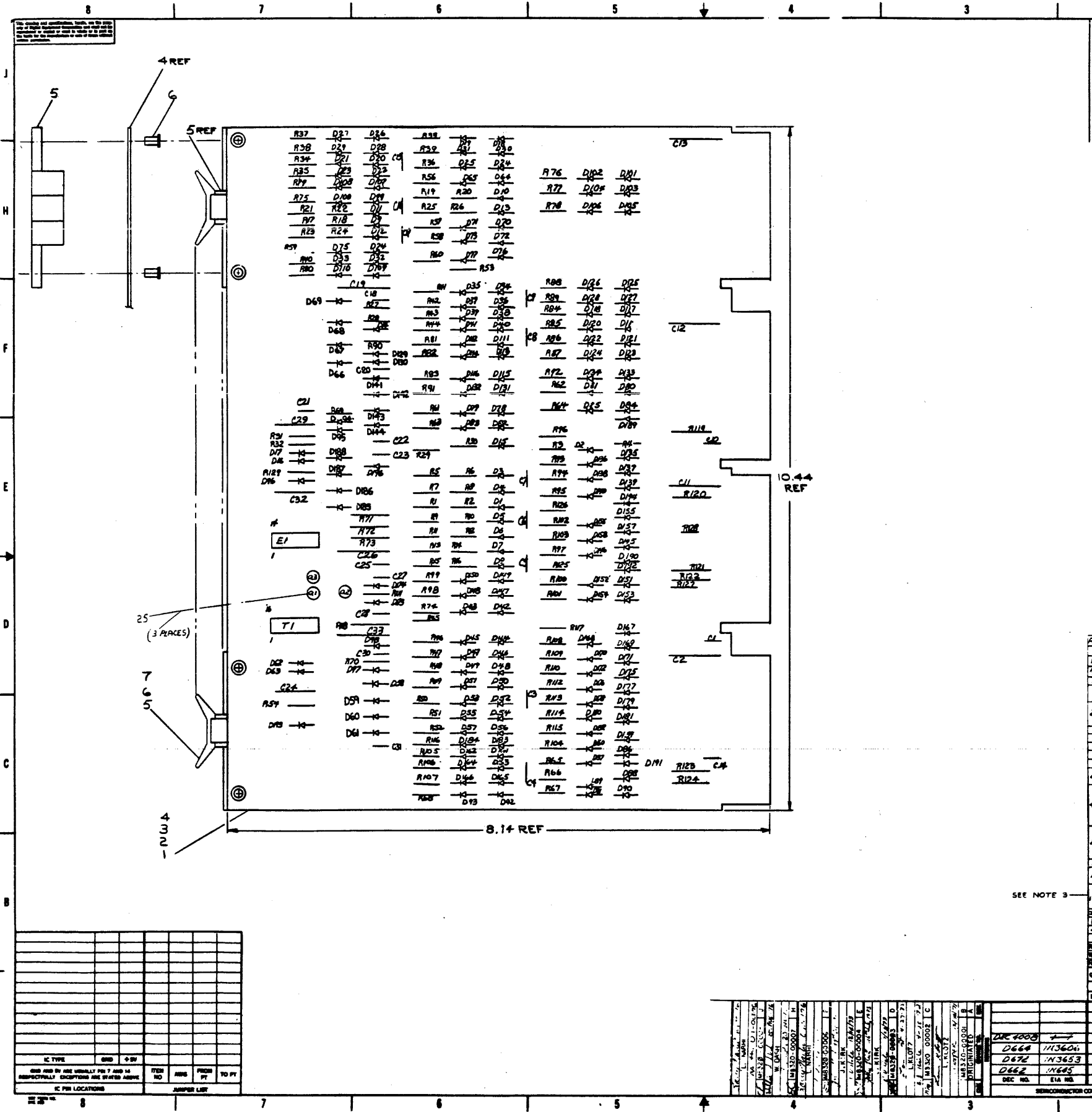


MQ0 L — M1 & FA1
 MQ1 L — M1 & FB1
 SHL ENA L — ES2 & FV1
 MQ DATA L — M2 & FB2
 MQ 0 L — M2 & FA2

E41 M2-11=0 L — 7402 E19
 M2-7=0 L — 7402 E19
 M1 — 7404 E18
 +5V — R33
 -5V — R37

REV	DESCRIPTION	DATE	BY
1	POP 8/E	1/2/72	
2			
3			
4			

EQUIPMENT CORPORATION	
TITLE	
M8310 MAJOR REG CONT.	
A-ML-KKB-E	8CS M8310-0-1
SCALE NONE	REV H
SHEET 4 OF 4	



- NOTES:**
- UNLESS OTHERWISE SPECIFIED:
 CAPACITORS = .047UF 16V 15-20%
 RESISTORS = 1500 1/4W 5%
 DIODES = D664
 - CONNECT ALL PINS C,F,H,I (EXCEPT AC1) TOGETHER TO GROUND.
 - ITEM NO B (D664) MAY BE REPLACED WITH D600 PN. 1105366 (REV C ONLY).
 - INSTALL ITEM 25 (TUBING) ON BASE LEAD OF EACH 2N3725.
 - ANY COLOR TUBING MAY BE USED FOR ITEM 25.

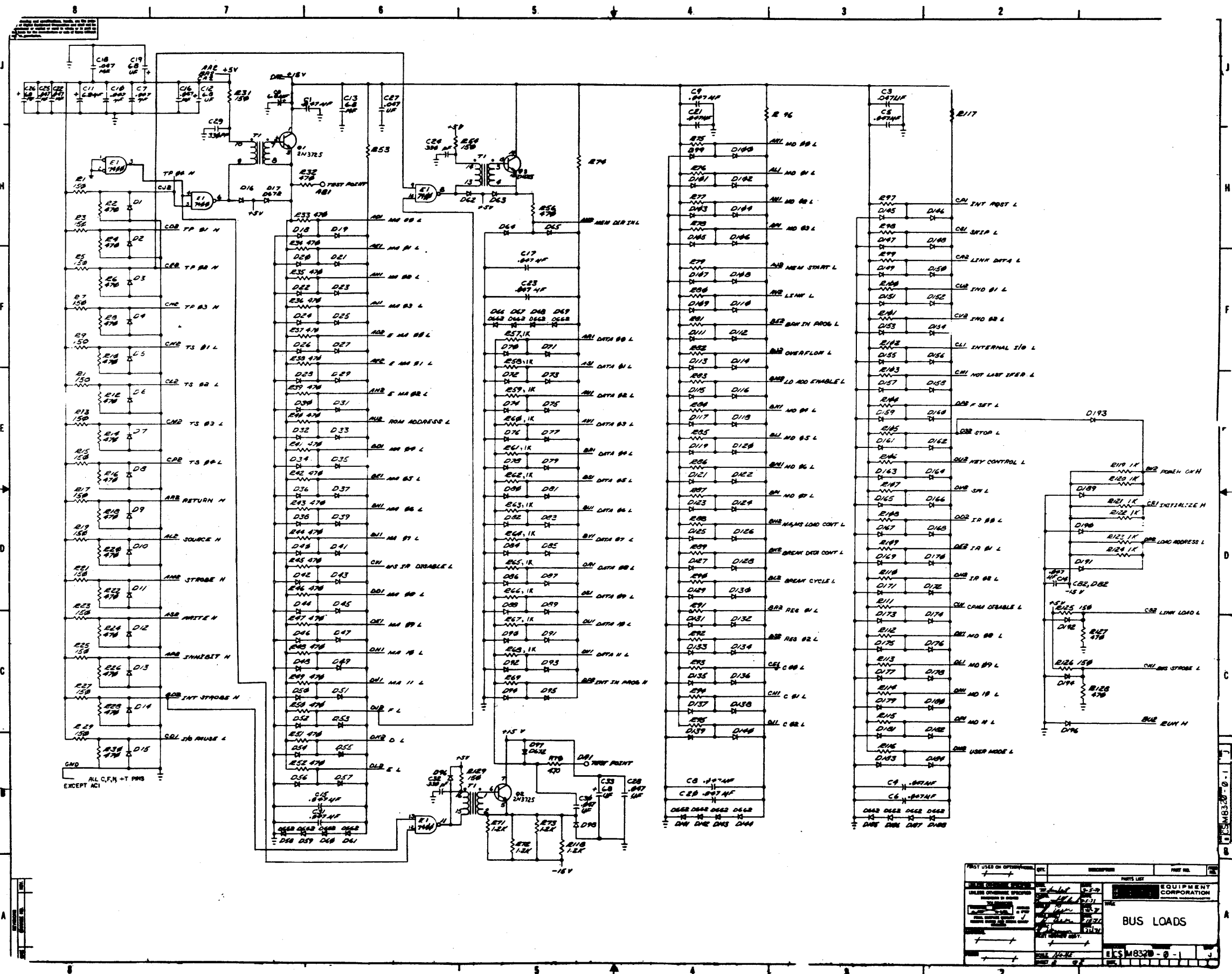
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	REV.
1	25	TUBING, 22 AWG	9107256-11	35
3		TRANS 2N3725	1510959	24
12	R51-R68	RES 1K 1/4W 5%	1300365	23
1		GRIPLET	1212040-0	22
3	C24, C29, C32	CAP 330PF 100V 5%	1000063	21
7	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10	CAP 6.8UF 35V 20%	1000061	20
29	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17	CAP .047UF 16V 15-20%	1009678	19
1	DI	IC DRG PART	150018	18
1	D1	PCB DRG PART	160457	17
1	D1	TERMINAL BLOCK	150018	16
6	E119-E120	RES 1K 1/4W 10%	1308137	15
4	E121-E123, E118	RES 1.2K 1/4W 10%	1300387	14
46	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68	RES 1500 1/4W 5%	1300391	13
40	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93, D94, D95, D96, D97, D98, D99, D100	RES 470 1/4W 10%	1300314	12
20	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100	RES 150 1/4W 5%	1300250	11
2	D17, D17	DIODE D672	1105275	10
16	D58-D61, D66-D69, D71-D74, D79-D82	DIODE D662	1100113	9
77	D1-D6, D8-D16, D18-D23, D25-D28, D30-D34, D36-D40, D42-D46, D48-D54, D56-D65, D67-D70, D72-D78, D80-D86, D88-D94, D96-D100	DIODE D664	1100114	8

SEE NOTE 3

IC TYPE	QTY	QTY	ITEM NO.	REV.	FROM PT.	TO PT.

ETCH BOARD REV.	D								

EQUIPMENT CORPORATION
BUS LOADS
 C-UA-KRB-E-0
 E CSM8320-0-1



PART USED IN ORIGINAL	QTY	DESCRIPTION	PART NO.
RESISTORS			
DIODES			
CAPACITORS			
TRANSFORMERS			
TUBES			
IC'S			
OTHER			

PARTS LIST		EQUIPMENT CORPORATION	
BUS LOADS			
ECSM8320-0-1			

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DIGITAL EQUIPMENT CORPORATION						
MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 11/19/74	
TITLE FIELD INSTALLATION & ACCEPTANCE PROCEDURE FOR KM8-A						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG	<i>Larry Naslin</i> 12/20/74	APPD	<i>Carl Olive</i>	SIZE	CODE	NUMBER	REV
				A	SP	KM8-A-1	

DEC 16-(392)-1079-N971
DRA 107

ENGINEERING SPECIFICATION	CONTINUATION SHEET								
TITLE FIELD INSTALLATION & ACCEPTANCE PROCEDURE FOR KM8-A									
<p>I GENERAL</p> <p>This procedure defines the performance standards required of the KM8A*, option board #2. This procedure refers to both system and add-on acceptance.</p> <p>NOTE: If KM8A was shipped as part of a PDP-8A system, then proceed to installation procedure.</p> <p>* Memory Extension & Time Share Bootstrap Loaders Power Fail/Auto Restart</p> <p>II INSPECTION</p> <p>After removing the KM8A from the packing material, inspect the module for the following:</p> <ol style="list-style-type: none"> 1. Inventory hardware against shipping list. 2. Inventory software against software list, if ordered. 3. Inventory prints against shipping list, if ordered. 4. Check module for loose or broken components. <p>III INSTALLATION PROCEDURE</p> <p>Install the equipment using the following procedure:</p> <ol style="list-style-type: none"> 1. Set the switches as indicated by the diagnostic write up. <p>NOTE: Refer to Operator's Handbook for switch setting descriptions.</p> <ol style="list-style-type: none"> 2. Insure that the PDP-8A power is removed from the Omnibus™. 3. Insert the KM8A into the second or third slot of the Omnibus™. 4. Turn the power back "ON". <p>IV ACCEPTANCE PROCEDURE</p> <p>Perform the acceptance procedure defined in Table A. If abnormal indications are encountered, refer to the diagnostic listing for the type of error. Reference the diagnostic write ups and Operator's Manual for instructions for loading diagnostics.</p>									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">SIZE</td> <td style="width: 5%;">CODE</td> <td style="width: 15%;">NUMBER</td> <td style="width: 5%;">REV</td> </tr> <tr> <td>A</td> <td>SP</td> <td>KM8-A-1</td> <td> </td> </tr> </table>	SIZE	CODE	NUMBER	REV	A	SP	KM8-A-1	
SIZE	CODE	NUMBER	REV						
A	SP	KM8-A-1							

DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

TITLE FIELD INSTALLATION & ACCEPTANCE PROCEDURE FOR KM8-A

IV ACCEPTANCE PROCEDURE (continued)

Equipment required:

1. PDP-8A with 1K min. R/W Memory
2. Paper Tape Input Device
3. Diagnostic and Listings
4. Programmer's Console (KC8-A & DKC8-A)
5. W987 Quad Extender

NOTE: If the programmer's console and paper tape input device are not available as part of the system being used, they must be supplied in good working order by the customer.

TABLE A

Acceptance of KM8A with 4K of R/W Memory

<u>Program Name</u>	<u>Maindec #</u>	<u>Accept Time</u>	<u>Restrictions</u>
KM8A Option Test #2	08-DJKMA-PB	30 min	4K R/W Memory Min

Acceptance of KM8A with Less than 4K R/W Memory

KM8A Option Test #2 Segment #1 (RIM)	08-DJKMA -PM1	10 min	1K R/W memory min
KM8A Option Test #2 Segment #2 (RIM)	08-DJKMA -PM2	10 min	1K R/W Memory Min
KM8A Option Test #2 Segment #4 (RIM)	08-DJKMA -PM4	10 min	1K R/W Memory Min

SIZE	CODE	NUMBER	REV
A	SP	KM8-A-1	

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1-8-1-108W 030

BOOTSTRAP/AUTO RESTART FUNCTIONAL SWITCH SETTINGS							
DESIRED FUNCTION	ACTIVATING SIGNAL	SI-4	SI-5	SI-6	SI-7	SI-8	S2-1
BOOTSTRAP ENABLED	"BOOT" SW	*	SPARE	OFF	OFF	ON	N/A
AUTO-RESTART DISABLED	N/A						
BOOTSTRAP ENABLED	"BOOT" SW	*		ON	ON	ON	N/A
AUTO-RESTART DISABLED	"AC LOW"						
BOOTSTRAP ENABLED	N/A	*		ON	ON	OFF	N/A
AUTO-RESTART DISABLED	"AC LOW"						
BOOTSTRAP ENABLED	"AC LOW"	*		ON	OFF	OFF	N/A
AUTO-RESTART DISABLED	N/A						
BOOTSTRAP ENABLED	"AC LOW" OR "BOOT" SW	*	SPARE	ON	OFF	ON	N/A
AUTO-RESTART DISABLED	N/A						
TIME SHARE DISABLED	N/A	N/A	N/A	N/A	N/A	N/A	ON
TIME SHARE DISABLED	N/A	N/A	N/A	N/A	N/A	N/A	OFF

BOOTSTRAP SELECT SWITCH SETTINGS FOR 465A2/469A2 ROMS									
PROGRAM	S2-5	S2-6	S2-7	S2-8	SI-1	SI-2	SI-3	ROM ST ADD	MEM ST ADD
HI-LO PTR	ON	ON	ON	OFF	ON	ON	ON	20	7734
RK8E	ON	OFF	ON	OFF	ON	OFF	ON	124	24
RX8E	ON	OFF	OFF	ON	OFF	ON	ON	150	33
RL8A	OFF	ON	OFF	OFF	OFF	ON	OFF	272	1

* RX8E BOOT FOR BOTH RX01 AND RX02

AUTO-RESTART SELECT SWITCH SETTINGS			
RESTART ADDRESS	S2-2	S2-3	S2-4
0	OFF	OFF	OFF
200	OFF	ON	OFF
2000	ON	OFF	OFF
4200	ON	ON	OFF

NOTES: * SI-4 "OFF"-BOOTSTRAP CAN BE ACTIVATED BY "BOOT" SW EITHER IN THE RUN OR "RUN" STATE. SI-4 "ON"-BOOTSTRAP CAN BE ACTIVATED BY "BOOT" SW IN THE RUN STATE.

1. "AC LOW" WILL CAUSE AUTO-RESTART OR BOOTSTRAP DEPENDING ON SWITCH SETTINGS TO OCCUR ONLY IN THE "RUN" OR STOPPED STATE. SI-6,7,8 "OFF"-BOOTSTRAP AND AUTO-RESTART DISABLED.

2. E76 AND E61 ARE NOT ON THE YC VARIATION KM8-AD. ALL OTHER PARTS REMAIN THE SAME.

3. IF AUTO-RESTART IS ENABLED, THE AUTO-START FEATURE OF THE CPU (M8315) MUST BE DISABLED.

4. AUTO RESTART SELECT SWITCHES ARE DEFINED AS FOLLOWS:

A. ROM ADDRESS RANG; 0-16.

B. ON=LOGIC 1 OR LOW; OFF=LOGIC 0 OR HIGH.

C. ORDER OF SIGNIFICANCE

$S22 = 2^3 = 10$
 $S23 = 2^2 = 4$
 $S24 = 2^1 = 2$

BOOTSTRAP SELECT SWITCH SETTINGS FOR 158A2/159A2 ROMS									
PROGRAM	S2-5	S2-6	S2-7	S2-8	SI-1	SI-2	SI-3	ROM ST ADD	MEM ADD START
HI-LO PTR	ON	ON	ON	OFF	ON	ON	ON	20	7734
RK8E	ON	OFF	ON	OFF	ON	OFF	ON	124	24
RX8E	ON	OFF	OFF	ON	OFF	ON	ON	150	33
RF06/DF32D	OFF	ON	OFF	ON	OFF	ON	ON	252	7750
TABE	OFF	ON	OFF	OFF	OFF	ON	OFF	272	4000

5. TO CONFIGURE MODULE FOR USE WITH KT8-A OPTION, INSTALL JUMPERS AS SHOWN BELOW.

	W1	W2	W3	W4
NORMAL	IN	OUT	OUT	OUT
WITH K7EA	OUT	IN	IN	IN

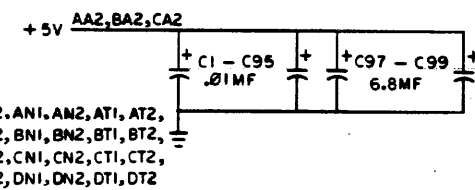
3. BOOTSTRAP SELECT SWITCHES ARE DEFINED AS FOLLOWS:

A. ROM ADDRESS RANGE: 0-377

B. ON=LOGIC 0 OR LOW; OFF=LOGIC 1 OR HIGH

C. ORDER OF SIGNIFICANCE

$S25 = 2^7 = 200$
 $S26 = 2^6 = 100$
 $S27 = 2^5 = 40$
 $S28 = 2^4 = 20$
 $S11 = 2^3 = 10$
 $S12 = 2^2 = 4$
 $S13 = 2^1 = 2$

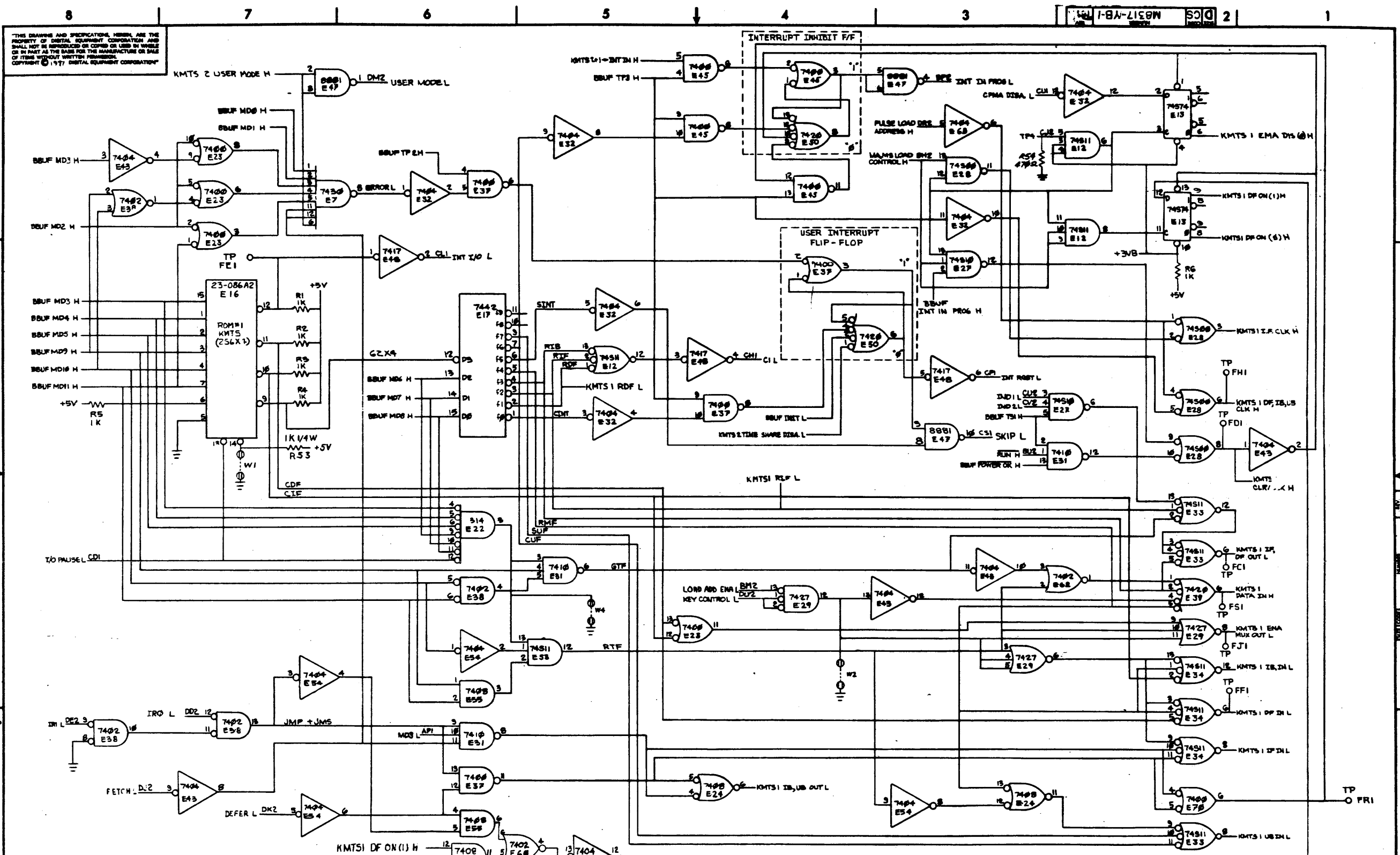


PART CALLED FOR			SUBSTITUTE PART		
QTY	PART NO	DESCRIPTION	QTY	PART NO	DESCRIPTION
96	1001610-01	.01UF DISC	96	1001610-01	.01UF GLASS
3	1503100	DEC 3009B	3	1503236	DEC 6531
6	1911330	74173	6	1911711	8T1C
1	1909704	314	1	1910391	7314
			1	19C9972	6314
			1	1910389	7314
6	19C9705	6661	6	19C9973	97401
1	23158A2	RCM1 (E76)	1	23465A2	RCM1 (E76)
1	23159A2	RCM2 (E61)	1	23469A2	RCM2 (E61)

THE LSE OF ADDRESS IS CONTROLLED BY THE BOOTSTRAP/AUTO-RESTART LOGIC

DATE	REVISION HISTORY
	REV. 1
	REV. 2
	REV. 3
	REV. 4
	REV. 5
	REV. 6
	REV. 7
	REV. 8

BY	DATE	TITLE
R. Koppelman	07 JUL 80	OPTICN BOARD # 2
H. S. [Signature]	13-21-80	
[Signature]	2106T00	
[Signature]	2106T00	
[Signature]	2106T00	
DOCUMENT NUMBER		
B-DD-M8317-YB		D CS M8317-YB-1 T



REVISIONS		
CHK	CHANGE NO.	REV.

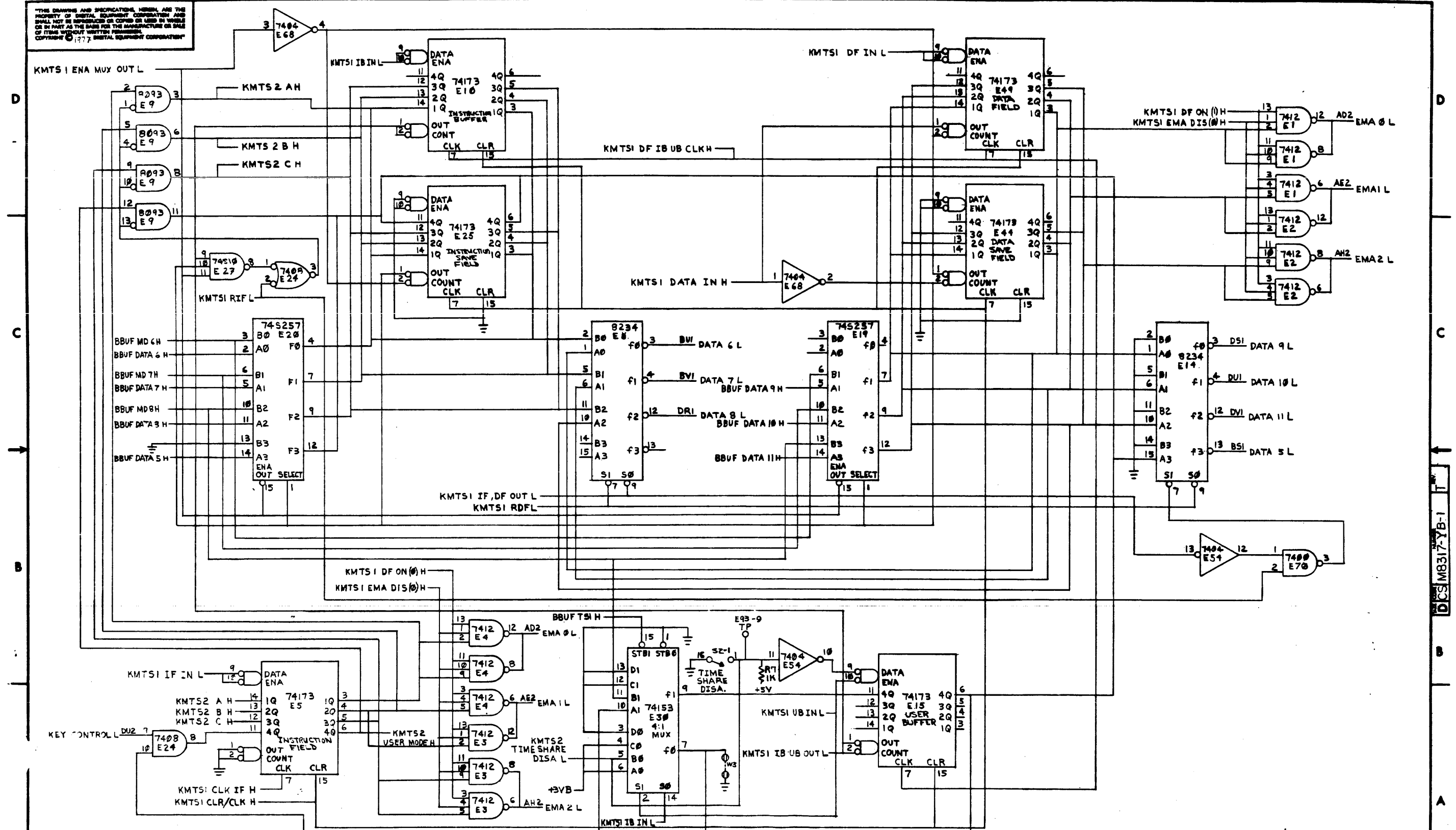
MEMORY EXT/TIME SHARE REGISTER CONTROL

TITLE OPTION BOARD #2 (KMTS 1)

SIZE CODE DCS NUMBER M8317-YB-1 REV. 1

SCALE NONE SHEET 2 OF 6 DWT.

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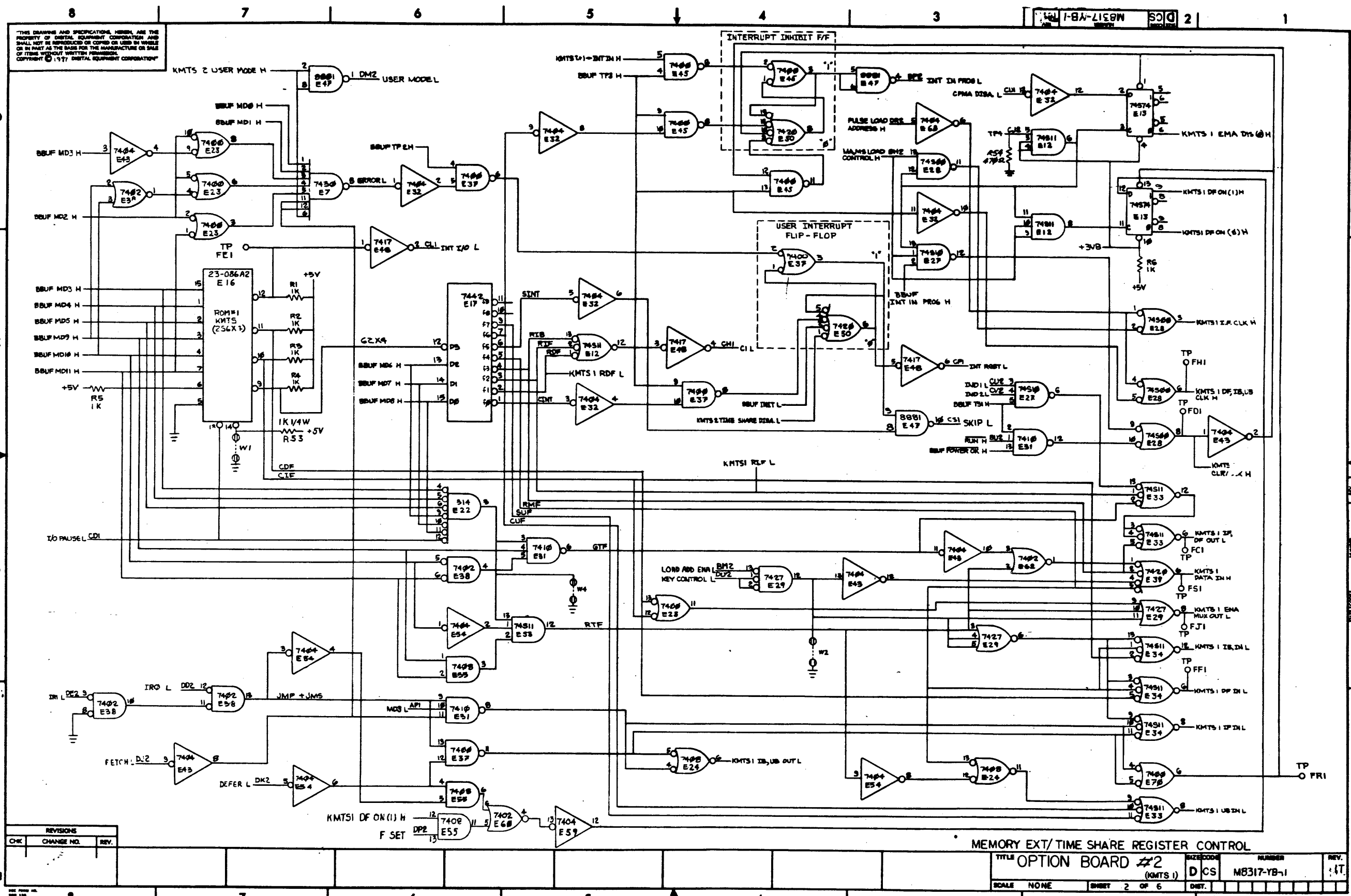
CHK	CHANGE NO.	REV.

INSTRUCTION FIELD, DATA FIELD, IF & DF SAVE FIELD, INSTRUCTION BUFFER, USER BUFFER

TITLE OPTION BOARD #2 (KMTS2) SIZE CODE DCS NUMBER M8317-YB-1 REV. T

SCALE NONE SHEET 3 OF 6 DWT.

DCS M8317-YB-1

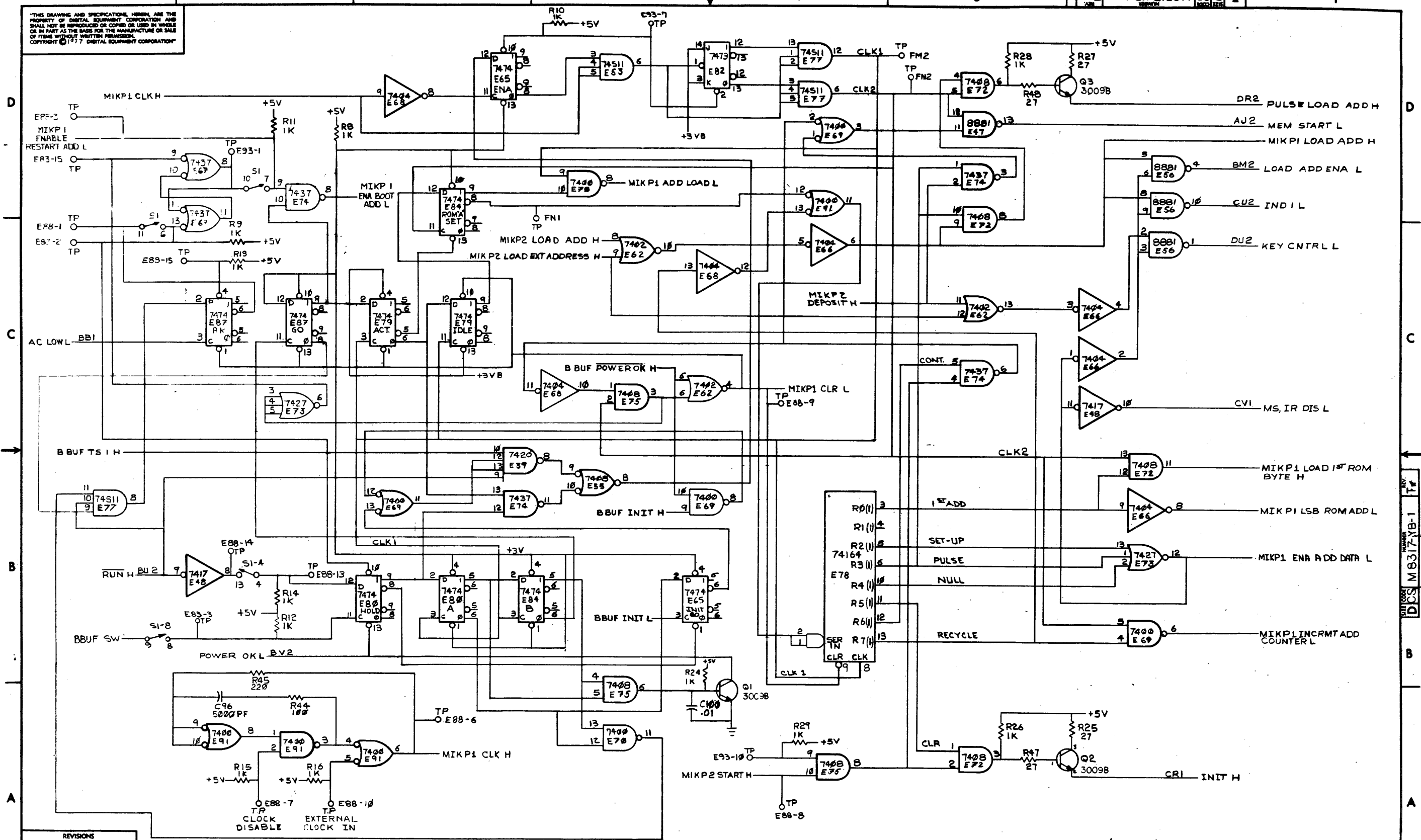


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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		OPTION BOARD #2		NUMBER		REV.	
(KMTS 1)		D CS		MB317-YB-1		1T	
SCALE	NONE	SHEET	2 OF 6	DIST.			

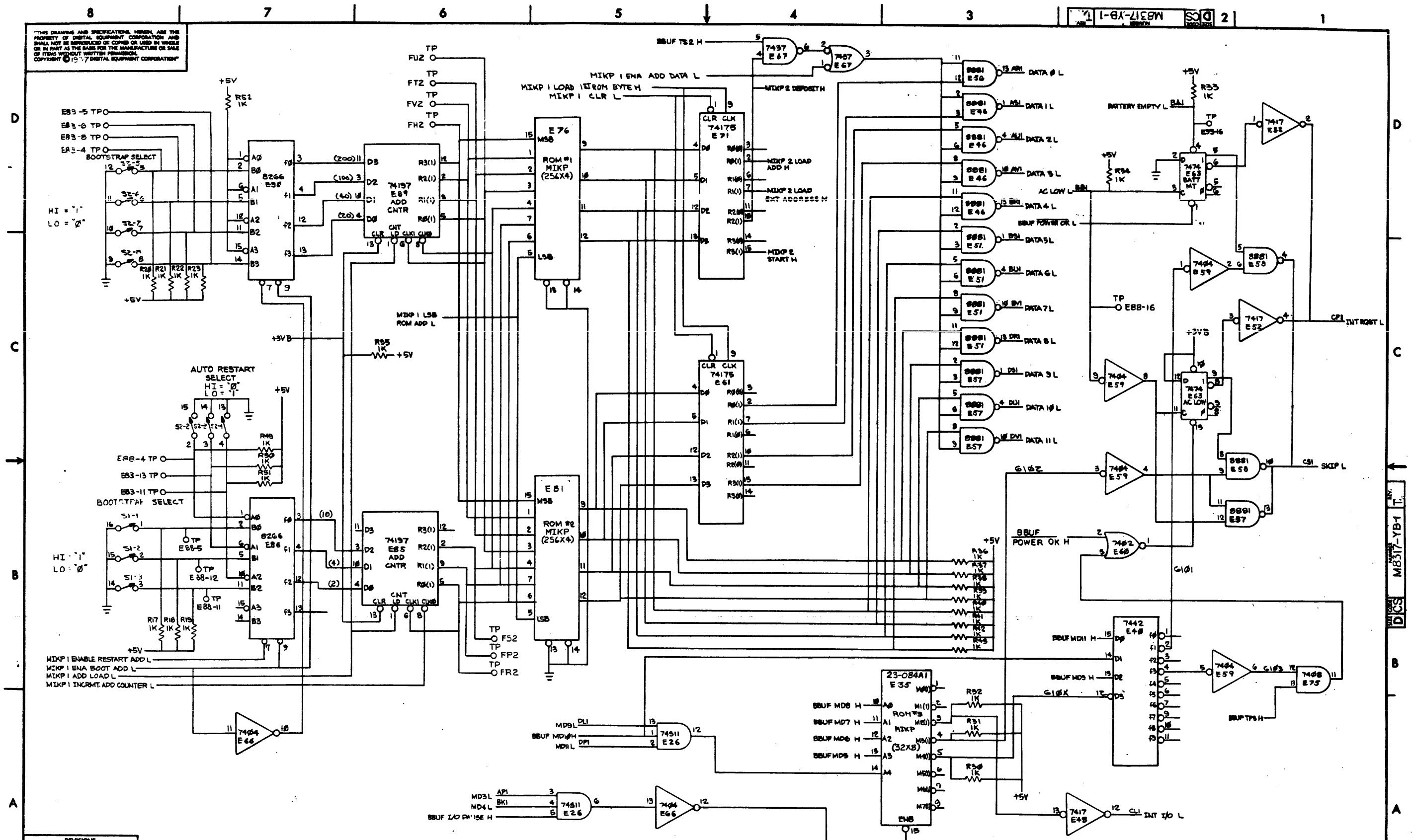
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REVISIONS table with columns for CHK, CHANGE NO., and REV.

Metadata table containing TITLE (OPTION BOARD # 2 (MIKP1)), NUMBER (DCS M8317-YB-1), SHEET (4 OF 6), and other identifiers.

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REVISIONS		
CHK	CHANGE NO.	REV.

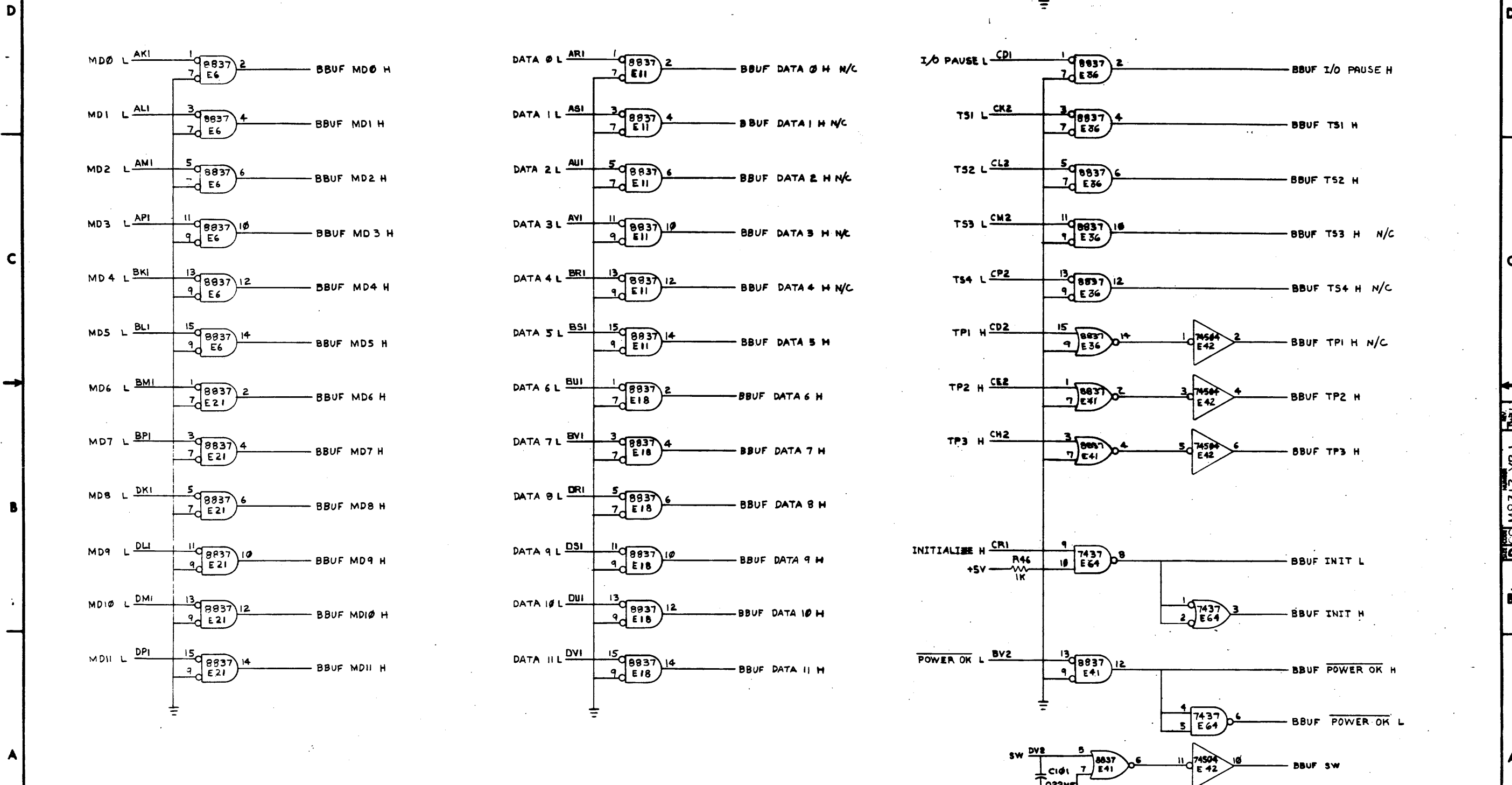
BOOTSTRAP/AUTO-RESTART ROMS AC LOW AND BATTERY EMPTY FLAGS

TITLE	OPTION BOARD #2 (M8317)	SIZE/SCALE	D/CS	NUMBER	M8317-YB-1	REV.	1T
SCALE	NONE	SHEET	5 OF 6	DIST.			

REV. 1 T. M8317-YB1

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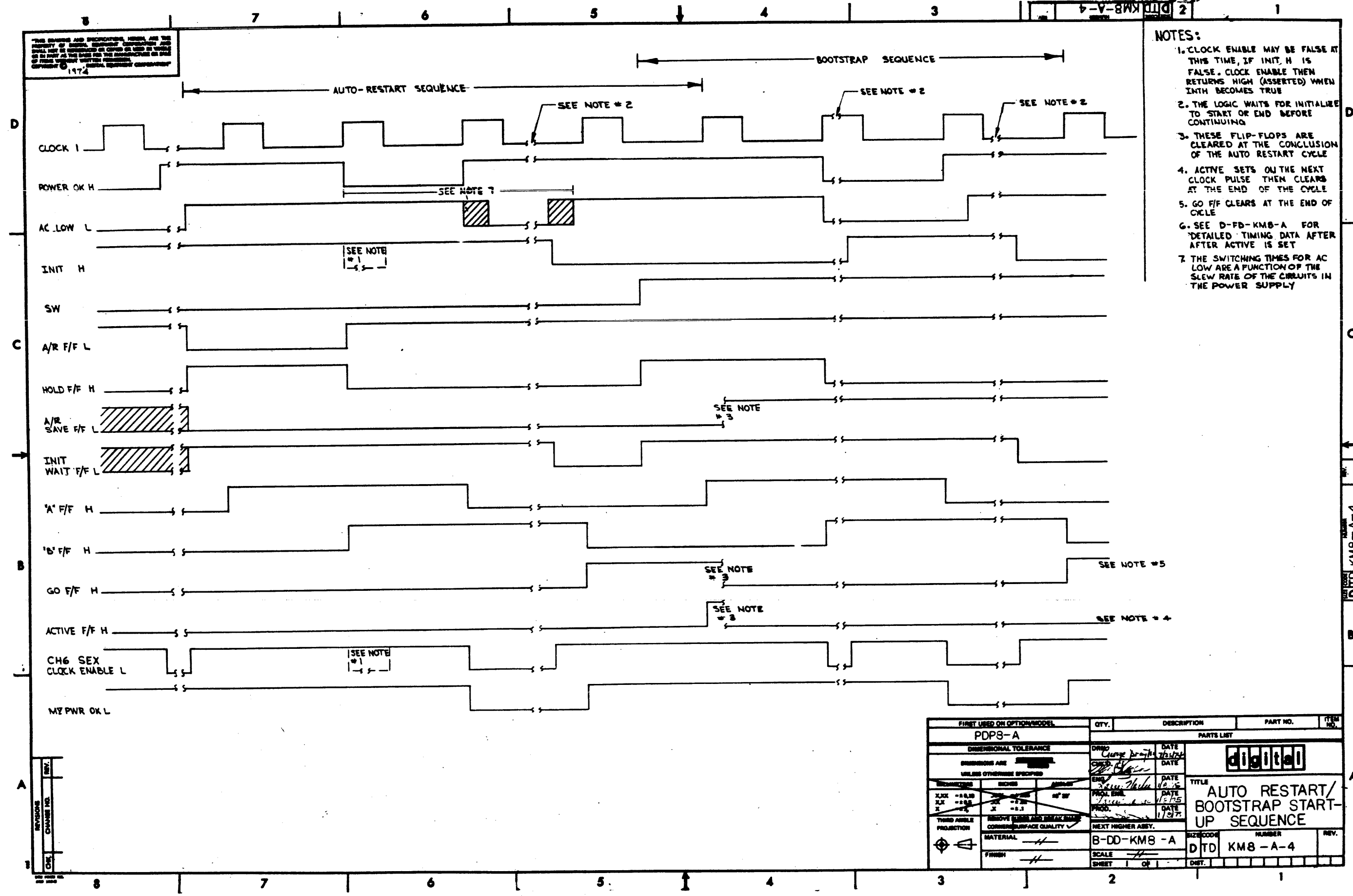
NOTE: SIGNALS WITH N/C HAVE NO CONNECTION



REVISIONS		
CHK	CHANGE NO.	REV.

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 1974

- NOTES:**
1. CLOCK ENABLE MAY BE FALSE AT THIS TIME, IF INIT. H IS FALSE. CLOCK ENABLE THEN RETURNS HIGH (ASSERTED) WHEN INTN BECOMES TRUE
 2. THE LOGIC WAITS FOR INITIALIZATION TO START OR END BEFORE CONTINUING
 3. THESE FLIP-FLOPS ARE CLEARED AT THE CONCLUSION OF THE AUTO RESTART CYCLE
 4. ACTIVE SETS ON THE NEXT CLOCK PULSE THEN CLEARS AT THE END OF THE CYCLE
 5. GO F/F CLEARS AT THE END OF CYCLE
 6. SEE D-FB-KM8-A FOR DETAILED TIMING DATA AFTER ACTIVE IS SET
 7. THE SWITCHING TIMES FOR AC LOW ARE A FUNCTION OF THE SLEW RATE OF THE CIRCUITS IN THE POWER SUPPLY

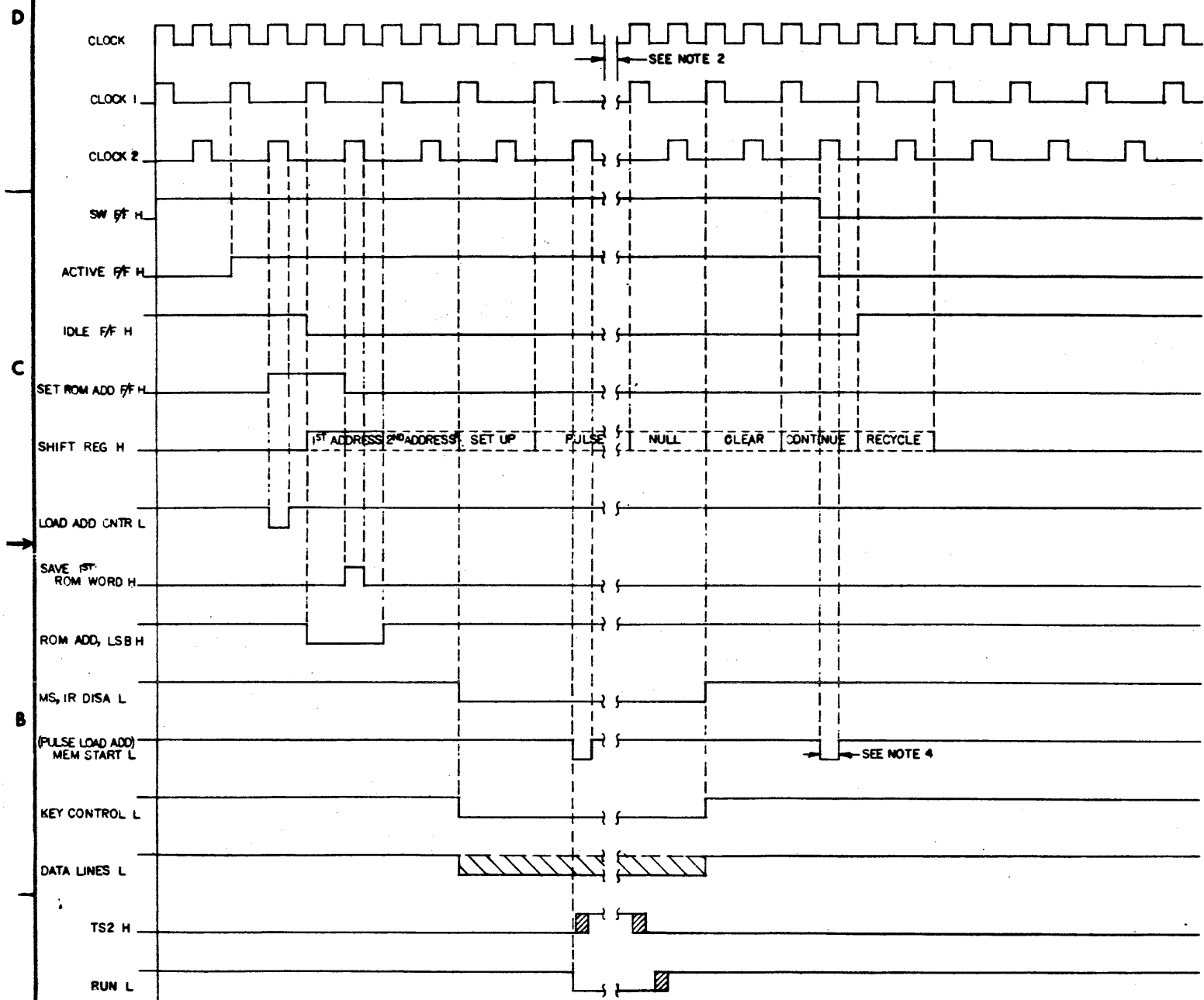


FIRST USED OR OPTION MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8-A					
DIMENSIONAL TOLERANCE		PARTS LIST			
DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED		DRWG	DATE	digital	
		CHKD	DATE		
		ENG	DATE		
		PROJ. ENR.	DATE		
		PROD.	DATE		
THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK EDGES		NEXT HIGHER ASSY.	
MATERIAL		B-DD-KM8-A	SIZE CODE	NUMBER	REV.
FINISH		SCALE	DTD	KM8-A-4	
		SHEET	OF	DIST.	

DITD KM8-A-4

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9-V-8WK 110 2



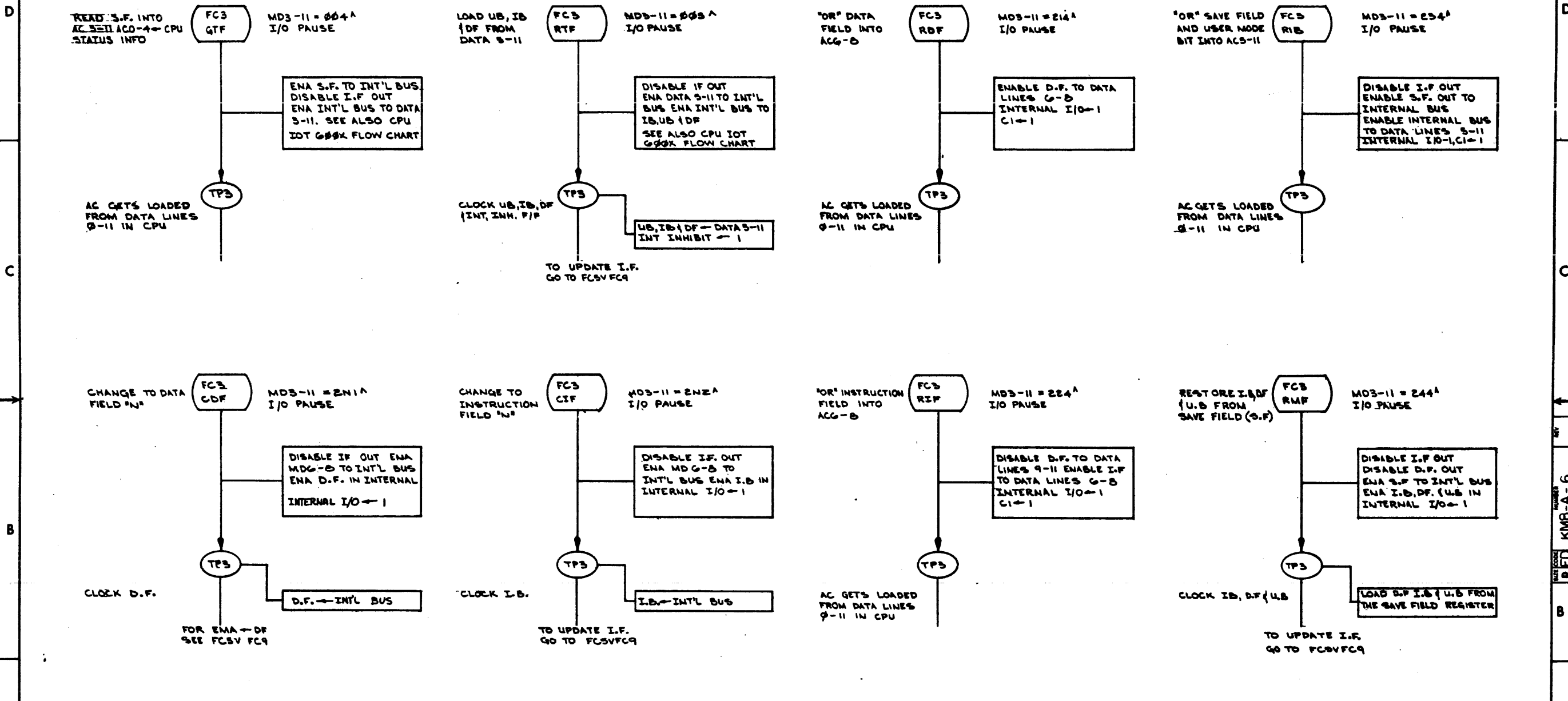
- NOTES:
- ONE 'DEPOSIT' CYCLE IS SHOWN IN DIAGRAM.
 - WHEN 'RUN' IS TRUE (LOW) ALL TIMING IS HELD OFF UNTIL THE NEXT CLOCK PULSE AFTER 'RUN' GOES FALSE (HIGH).
 - FOR THE 'LOAD ADD' CYCLE SIGNALS REMAIN THE SAME AS SHOWN EXCEPT THAT 'PULSE LOAD ADD' REPLACES 'MEM START' AND 'KEY CONTROL' IS NEGATED. FOR 'EXT. LOAD ADD' KEY CONTROL IS TRUE.
 - MEM START APPEARS HERE ONLY FOR THE 'START' FUNCTION. THE EARLIER MEM START IS FOR 'DEPOSITS' ONLY.

REV.	CHG.	BY	DATE

FIRST USED ON OPTION/MODEL PDP8-A	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DIMENSIONAL TOLERANCE		DRN. <i>M. White</i>	DATE 7-31-74	digital
DIMENSIONS ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED		CHKD. <i>John K...</i>	DATE 1/2/74	
MATERIAL		ENR. <i>Samy...</i>	DATE 1-8-75	
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	FRG. ENG. <i>Samy...</i>	DATE 1-8-75	TITLE BOOTSTRAP TIMING DIAGRAM
FINISH	MATERIAL	PROG. <i>Samy...</i>	DATE 1-8-75	SIZE CODE B-DD-KMB-A
				NUMBER D TD KMB-A-5
				REV.

DITD KMB-A-5

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REV.	
CHANGE NO.	
CHK.	

FIRST USED ON OPTION MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PDP8A				
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS IN INCHES				
TOLERANCES				
DECIMALS	FRACTIONS	ANGLES		
= .010	= 1/64	= .010		
FINAL SURFACE QUALITY				
REMOVE BURRS AND BREAK SHARP CORNERS				
MATERIAL	NEXT HIGHER ASSY			
FRUSH	B-DD-KMB-A			
SCALE		SIZE CODE NUMBER		
SHEET 1 OF 2		DFD KMB-A-6		

TITLE
FLOW CHART FOR
OPTION BOARD #2
M8317

REV. NUMBER
B DD KMB-A-6

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CLEAR 'USER INTERRUPT' F/F
FC3 CINT
MDS-11 = 204^A
I/O PAUSE

INTERNAL I/O ← 1

TP3

USER INT F/F ← 0

CLEAR 'USER BUFFER' F/F
FC3 CUF
MDS-11 = 264^A
I/O PAUSE

ENABLE U.B. IN INTERNAL I/O ← 1

TP3

USER BUFFER F/F ← 0
INT INHIBIT ← 0

CLOCK U.B. (INT INHIBIT F/F)

FC4 JMPVJMS MEM REF
IR0A IR1V(FAMB3)VDAT33;
MEM REFAFATS3VTS4

CLOCK INT INH F/F

TP3

INTERUPT INHIBIT ← 0

SKIP ON 'USER INTERRUPT' F/F
FC3 SINT
MDS-11 = 254^A
I/O PAUSE

IF USER INTERRUPT=1:
SINT ← SKIP BUS ← 1
INTERNAL I/O ← 1

TP3

CPU TEST 'SKIP BUS'

SET 'USER BUFFER' F/F
FC3 SUP
MDS-11 = 274^A
I/O PAUSE

ENABLE U.B. IN INTERNAL I/O ← 1

TP3

USER BUFFER ← 1
INT INHIBIT ← 1

CLOCK U.B. (INT INHIBIT F/F)

TO UPDATE 'USER FIELD' F/F GO TO FC5V FC9

UPDATE I.R./U.F
FC5V FC9 JMPVJMS VMEM REF

DISABLE I.F. OUT
ENABLE I.F. IN
ENABLE I.B. OUT
ENABLE U.B. OUT

TP4

CLOCK I.F. (DF ON F/F MACHINE GOES INTO 'USER MODE' IF UB TRUE)

TP4^A MA, MS LOAD CONTROL

IB, UB ← IF
DF ON F/F ← 0
IF ← EMA

REVISIONS		
CHK	CHANGE NO.	REV.

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**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

ENGINEERING SPECIFICATION

DATE 5/8/74

TITLE ROM PROGRAMMING DIRECTIONS FOR 8A OPTION BOARD #2 KM8-AD (M8317-YC)

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	E.C.O. CHANGE	00001	L.NARHI	14 MAY 76	<i>L. Narhi</i>	21-MAY
B	E.C.O. CHANGE	00002	L.NARHI	12-14-77	<i>L. Narhi</i>	5-JAN-78

ENG Larry Narhi	APPD <i>Larry Narhi</i>	SIZE A	CODE SP	NUMBER KM8-A-7	REV B
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DEC FORM NO.
DRA 107

ENGINEERING SPECIFICATION

digital

CONTINUATION SHEET

TITLE ROM PROGRAMMING DIRECTIONS FOR 8A OPTION BOARD #2 KM8-AD (M8317-YC)

1. Introduction

This document describes the organization of the two 256 x 4 ROMs, hereafter called ROM #1 and ROM #2, that control and supply data for the Auto-Restart and Bootstrap portions of Option Board #2.

This information is made available to help users program their own ROMs for their specific Auto-Restart and/or Bootstrap program(s).

2. Organization

The two ROMs are connected as follows: the address lines are connected in parallel; i.e., two corresponding address lines of each ROM are connected together, the outputs are arranged in serial fashion forming an 8 bit word, 4 outputs from each ROM. Because 12 bits are required for data/address information, two sequential addresses must be accessed from the ROMs to form a 16 bit word. Where the first 8 bits are temporarily stored in a register, then the next 8 bits are accessed from the ROMs. At this point the control then decides what to do with 12 of the 16 bits. There are four possible actions that can take place at this time:

- a) Load Address
- b) Load Extended Address, IF AND DF
- c) Deposit
- d) Start

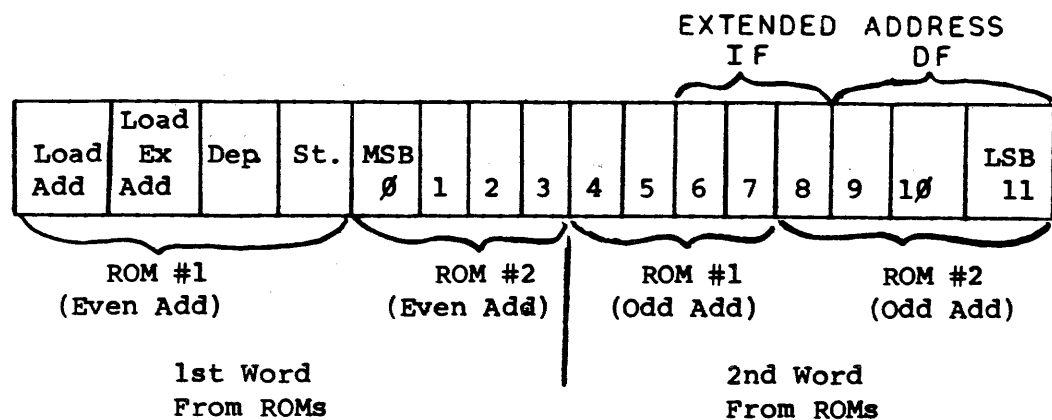
The remaining 4 bits of the 16 actually tell the control which of the four actions are to take place. So the 16 bit word would look like the word in Figure 1.

SIZE A	CODE SP	NUMBER KM8-A-7	REV B
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DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

TITLE ROM PROGRAMMING DIRECTIONS FOR 8A OPTION BOARD #2 KMB-AD (M8317-YC)

Figure 1



The use of ROMs that have 256 addressable locations allows up to 128 words of ROM storage. These 128 locations may be used for Bootstrap and/or Auto-restart programs. Any Auto-restart or Bootstrap program may be located anywhere in the ROMs so long as the program starts in an even address in the ROM. If it is required that both Bootstrap and Auto-restart programs be accessible at the same time, activated by different signals; of course the Auto-restart program(s) must be located in addresses 0 through 15 in the ROMs. This is due to the addressing limits of the Auto-restart select switches.

3. Auto-Restart/Bootstrap Sequence

The following events should take place when an auto-restart is initiated:

- a) Load a 12 bit address
- b) LOAD THE IF AND DF AND START.

The following events should take place when the Bootstrap is initiated:

- a) Load a 12 bit initial address.
- b) Load the IF AND DF
- c) Deposit 12 bit data words repeating as required by length of program to be deposited.
- d) Load a 12 bit starting address and start.

SIZE	CODE	NUMBER	REV
A	SP	KMB-A-7	B

TITLE ROM PROGRAMMING DIRECTIONS FOR 8A OPTION BOARD #2 KMB-AD (M8317-YC)

The decision to do a Bootstrap or an auto-restart is directed by a set of switches on the module. The Bootstrap may be actuated by the transition of the signal AC Low from a logic low to a logic high or by a similar transition of the SW line on the OMNIBUS.

AN AUTO-RESTART MAY ONLY BE INITIATED BY THE AC LOW SIGNAL. IT SHOULD BE OBVIOUS THAT BOTH THE BOOTSTRAP OR AUTO-RESTART SHOULD NOT BE ACTIVATED BY THE SAME INITIALIZING SIGNAL.

4. ROM Programming Examples

Auto-restart example:

- a) Load address 0200
- b) Load field 0, start

Starting at ROM address 004

Bootstrap example:

- a) Load address 0023
- b) Load field 7 (BOTH IF AND DF)
- c) Deposit 2000
- d) Deposit 6745
- e) Deposit 0023
- f) Deposit 7650
- h) Deposit 5024
- j) Deposit 6733
- k) Deposit 5031
- l) Load address 0024 and start

Starting at ROM address 124.

SIZE	CODE	NUMBER	REV
A	SP	KMB-A-7	B

TITLE ROM PROGRAMMING DIRECTIONS FOR 8A OPTION BOARD #2 KM8-AD (M8317-YC)

Auto-Restart example:

Bit Add	ROM #1				ROM #2			
	4	3	2	1	4	3	2	1
4	1	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0
6	0	1	0	1	0	0	0	0
7	0	0	0	0	0	0	0	0

Load Address
0200
Load Ext. Add 0
and Start

NOTE: Logic one (1) = +3V

Bootstrap example:

Bit Add	ROM #1				ROM #2			
	4	3	2	1	4	3	2	1
124	1	0	0	0	0	0	0	0
125	0	0	0	1	0	0	1	1
126	0	1	0	0	0	0	0	0
127	0	0	1	1	1	1	1	1
130	0	0	1	0	0	1	0	0
131	0	0	0	0	0	0	0	0
132	0	0	1	0	1	1	0	1
133	1	1	1	0	0	1	0	1
134	0	0	1	0	0	0	0	0
135	0	0	0	1	0	0	1	1
136	0	0	1	0	1	1	1	1
137	1	0	1	0	1	0	0	0
140	0	0	1	0	1	0	1	0
141	0	0	0	1	0	1	0	0
142	0	0	1	0	1	1	0	1
143	1	1	0	1	1	0	1	1
144	0	0	1	0	1	0	1	0
145	0	0	0	1	1	0	0	1
146	1	0	0	1	0	0	0	0
147	0	0	0	1	0	1	0	0

Load Add 0023
Load Ext Add 7
Dep 2000
Dep 6745
Dep 0023
Dep 7650
Dep 5024
Dep 6733
Dep 5031
Load Add 24 & Start

SIZE CODE NUMBER REV
A SP KM8-A-7 B

TITLE ROM PROGRAMMING DIRECTIONS FOR 8A OPTION BOARD #2 KM8-AD (M8317-YC)

5. ROMs

Unprogrammed ROMs should be purchased by the user from Digital Equipment Corporation. The part number for an unprogrammed 256 x 4 ROM is 23-000A2.

SIZE CODE NUMBER REV
A SP KM8-A-7 B

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 11/19/74	
TITLE FIELD INSTALLATION & ACCEPTANCE PROCEDURE FOR DKC8-A						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>S. Nishi</i> 12/20/74	APPD <i>Carl Ch...</i>	SIZE A	CODE SP	NUMBER DKC8-A-1	REV
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DEC 16-(392)-1079-N971
DRA 107

SHEET 1 of 4

ENGINEERING SPECIFICATION		CONTINUATION SHEET																		
TITLE FIELD INSTALLATION & ACCEPTANCE PROCEDURE FOR DKC8-A																				
<p>I GENERAL</p> <p>This procedure defines the performance standard required of the DKC8*, option board #1. This procedure refers to both system acceptance and add-on acceptance.</p> <p>NOTE: If DKC8 was shipped as part of a PDP-8A system, proceed to installation procedure.</p> <p>* Serial Line Unit Real Time Clock Parallel I/O Programmer's Console Logic</p> <p>II INSPECTION</p> <p>After removing the DKC8 from the packing material, inspect the module for the following:</p> <ol style="list-style-type: none"> 1. Inventory hardware against shipping list. 2. Inventory software against software list, if ordered. 3. Inventory prints against shipping list, if ordered. 4. Check hardware for loose or broken components. <p>III INSTALLATION PROCEDURE</p> <p>Install the equipment using the following procedure:</p> <ol style="list-style-type: none"> 1. Set up switches as indicated by the diagnostic write up. <table style="margin-left: 40px;"> <tr> <td>S1-1 thru S1-3</td> <td>"ON"</td> <td>9600 baud</td> </tr> <tr> <td>S1-4</td> <td>"ON"</td> <td>Normally "ON"</td> </tr> <tr> <td>S1-5</td> <td>"ON"</td> <td>Real Time Clock Enable</td> </tr> <tr> <td>S1-6</td> <td>"ON"</td> <td>Normally "ON"</td> </tr> <tr> <td>S1-7</td> <td>"ON"</td> <td>One Stop Bit</td> </tr> <tr> <td>S1-8</td> <td>"OFF"</td> <td>Disable TTY 20 MA Filter</td> </tr> </table> <p>NOTE: Reference Operator's Handbook for switch setting descriptions.</p> <ol style="list-style-type: none"> 2. Insert TTY loop back cable (DEC Part #7008517) on DKC8. 3. Insert parallel I/O cable loop back cable (DEC Part # BC08R-1) on DKC8. 			S1-1 thru S1-3	"ON"	9600 baud	S1-4	"ON"	Normally "ON"	S1-5	"ON"	Real Time Clock Enable	S1-6	"ON"	Normally "ON"	S1-7	"ON"	One Stop Bit	S1-8	"OFF"	Disable TTY 20 MA Filter
S1-1 thru S1-3	"ON"	9600 baud																		
S1-4	"ON"	Normally "ON"																		
S1-5	"ON"	Real Time Clock Enable																		
S1-6	"ON"	Normally "ON"																		
S1-7	"ON"	One Stop Bit																		
S1-8	"OFF"	Disable TTY 20 MA Filter																		
	SIZE A	CODE SP																		
NUMBER DKC8-A-1	REV																			

DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

SHEET 2 OF 4

TITLE FIELD INSTALLATION AND ACCEPTANCE PROCEDURE FOR DKC8-A

III INSTALLATION PROCEDURE (continued)

4. Insert two programmer's console cables on DKC8.
5. Insure that the 8A Power is removed from the Omnibus™.
6. Insert DKC8 into the second or third slot of the Omnibus™.
7. Turn the power back "ON".
8. Check the operation of the programmer's console.

IV ACCEPTANCE PROCEDURE

Perform the acceptance procedure defined in Table A. If abnormal indications are encountered, refer to the diagnostic listing for type of error. Reference the diagnostic write ups and operator's manual for instructions on loading diagnostics.

Equipment Required:

1. PDP-8A with 1K or more R/W Memory
2. Paper Tape Input Device
3. Programmer's Console (KC8-A)
4. Diagnostic and Listings
5. TTY loop Back Cable
6. Parallel I/O Loop Back Cable
7. W987 Quad Extender

NOTE: If the programmer's console and paper tape input device are not available as part of the system being used, they must be supplied in good working order by the customer.

SIZE	CODE	NUMBER	REV
A	SP	DKC8-A-1	

TITLE FIELD INSTALLATION & ACCEPTANCE PROCEDURE FOR DKC8-A

TABLE A

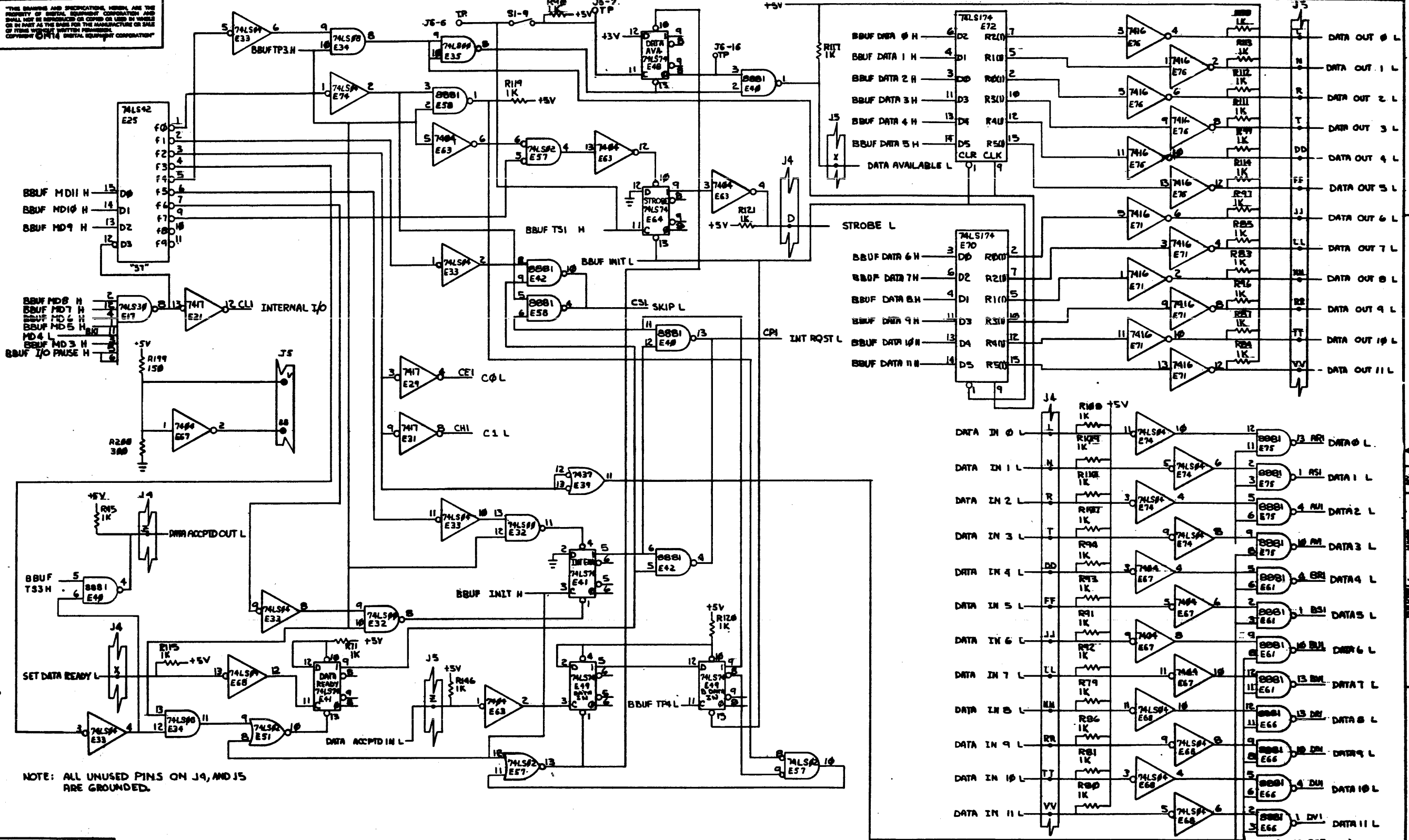
Acceptance of DKC8 with 4K or More R/W Memory

Program Name	Maindec #	Accept Time	Restriction
DKC8-AA Option Test #1	08-DJDKA-PB	30 min	4K R/W Memory

Acceptance of DKC8 with less than 1K of R/W Memory

DKC8-AA Opteion Test #1 Segment #1 (RIM)	08-DJDKA -PM1	10 min	1K R/W Memory
DKC8-AA Option Test #1 Segment #2 (RIM)	08-DJDKA -PM2	10 min	1K R/W Memory
DKC8-AA Option Test #1 Segment #3 (RIM)	08-DJDKA -PM3	10 min	1K R/W Memory
DKC8-AA Option Test #1 Segment #4 (RIM)	08-DJDKA -PM4	10 min	1K R/W Memory

SIZE	CODE	NUMBER	REV
A	SP	DKC8-A-1	



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NOTE: ALL UNUSED PINS ON J4, AND J5 ARE GROUNDED.

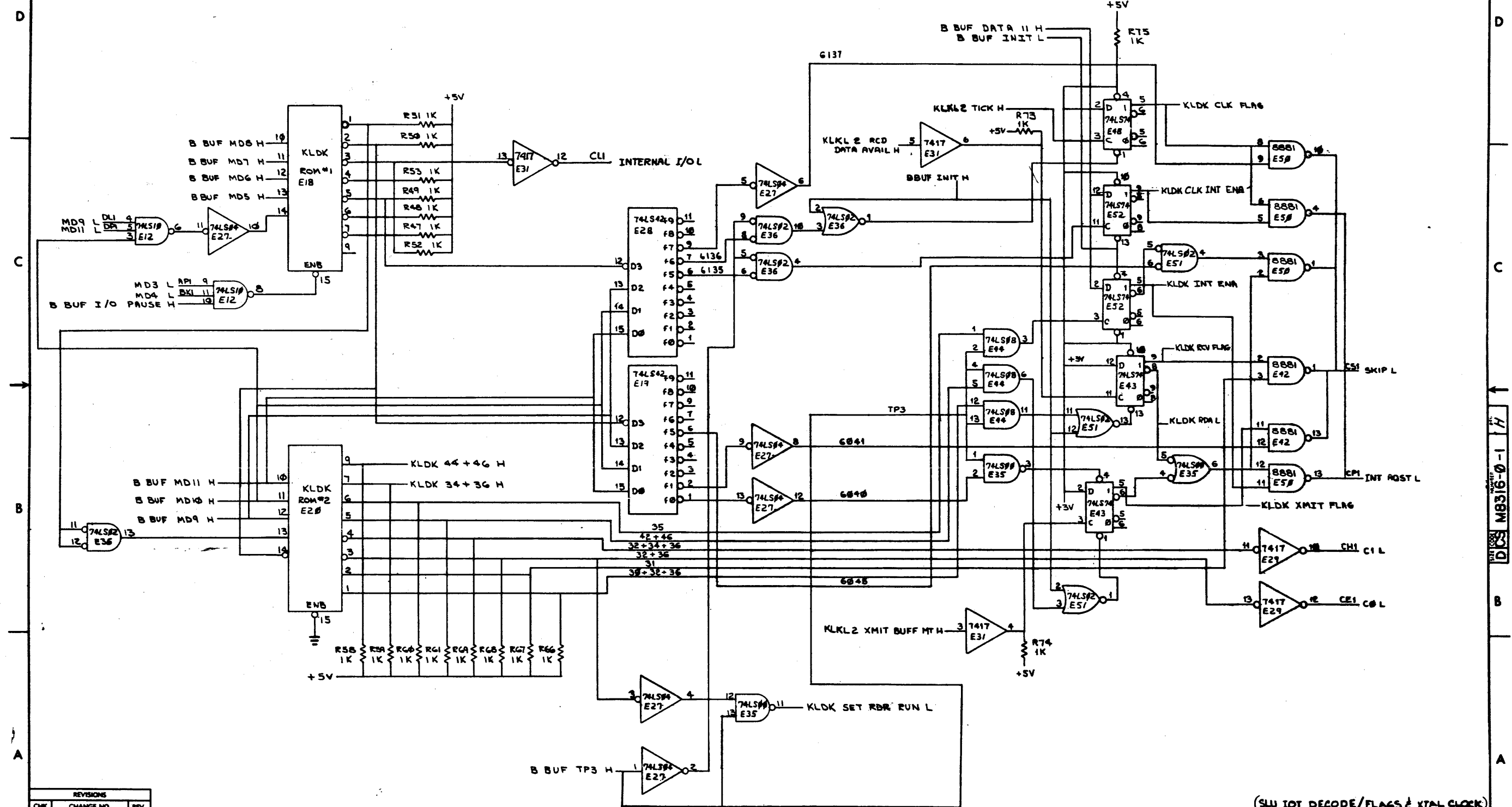
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	OPTION BD #1	SIZE/CODE	D CS	NUMBER	M8316-0-1	REV.	H
SCALE	1:1	SHEET	2 OF 8	DWT.			

D CS M8316-0-1

(12 BIT PARALLEL I/O)

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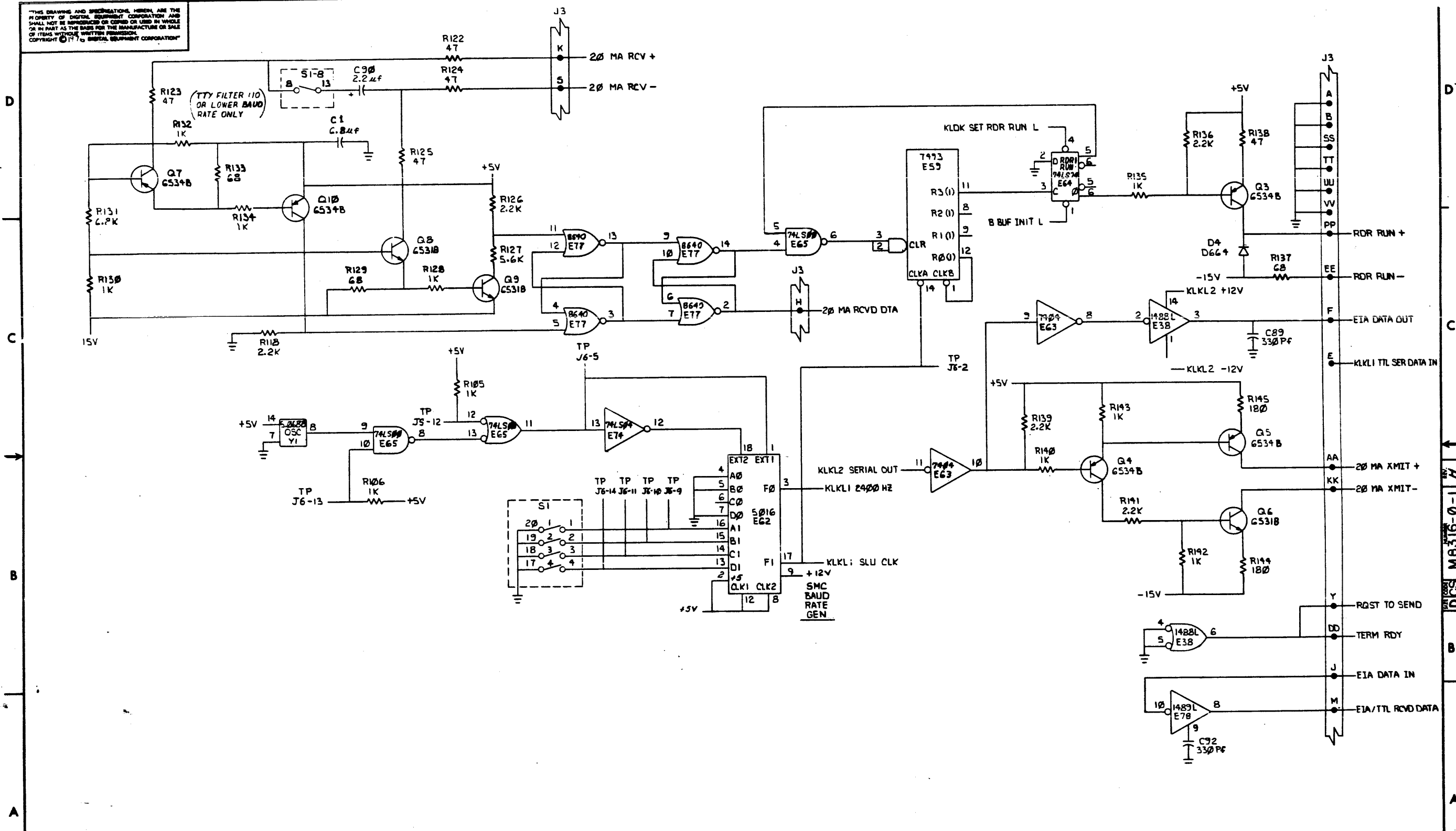


REVISIONS		
CHK	CHANGE NO.	REV.

(SLU IOT DECODE/FLAGS & XTAL CLOCK)

TITLE	OPTION BD #1 (KLDK)	SIZE CODE	D CS	NUMBER	M8316-0-1	REV.	H
SCALE	1/1	SHEET	3	OF	8	DIST.	

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REVISIONS		
CHK	CHANGE	REV.

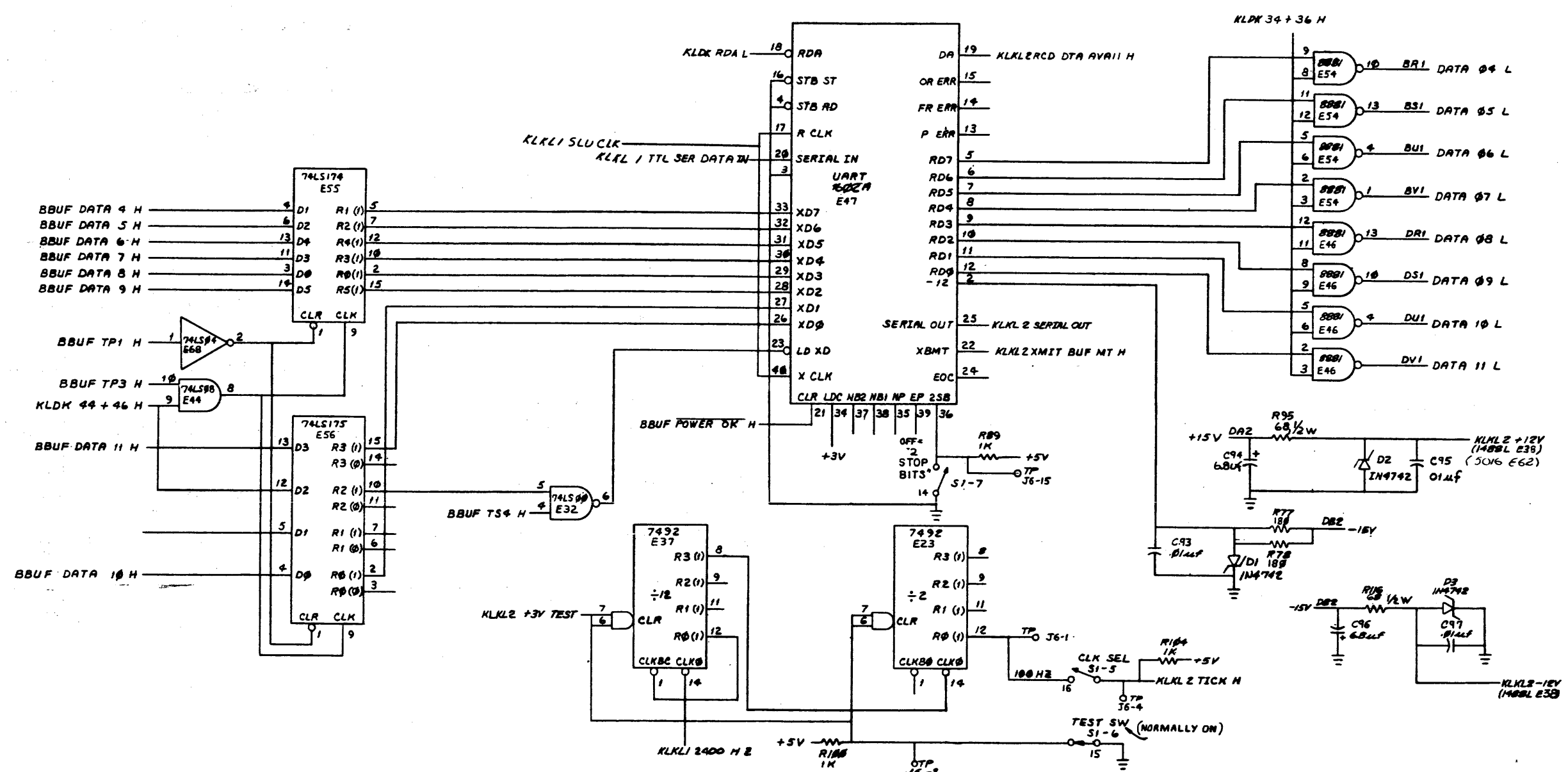
TITLE		OPTION BD #1		SIZE CODE		NUMBER		REV.	
		(KLKL1)		DCS		M8316-0-1		H	
SCALE		SHEET 4 OF 8		DST.					

(BAUD RATE GEN & 20 MA, EIA DRIVERS / RECEIVERS)

DCS M8316-0-1 H

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H 1-0-9138W SCQ 2



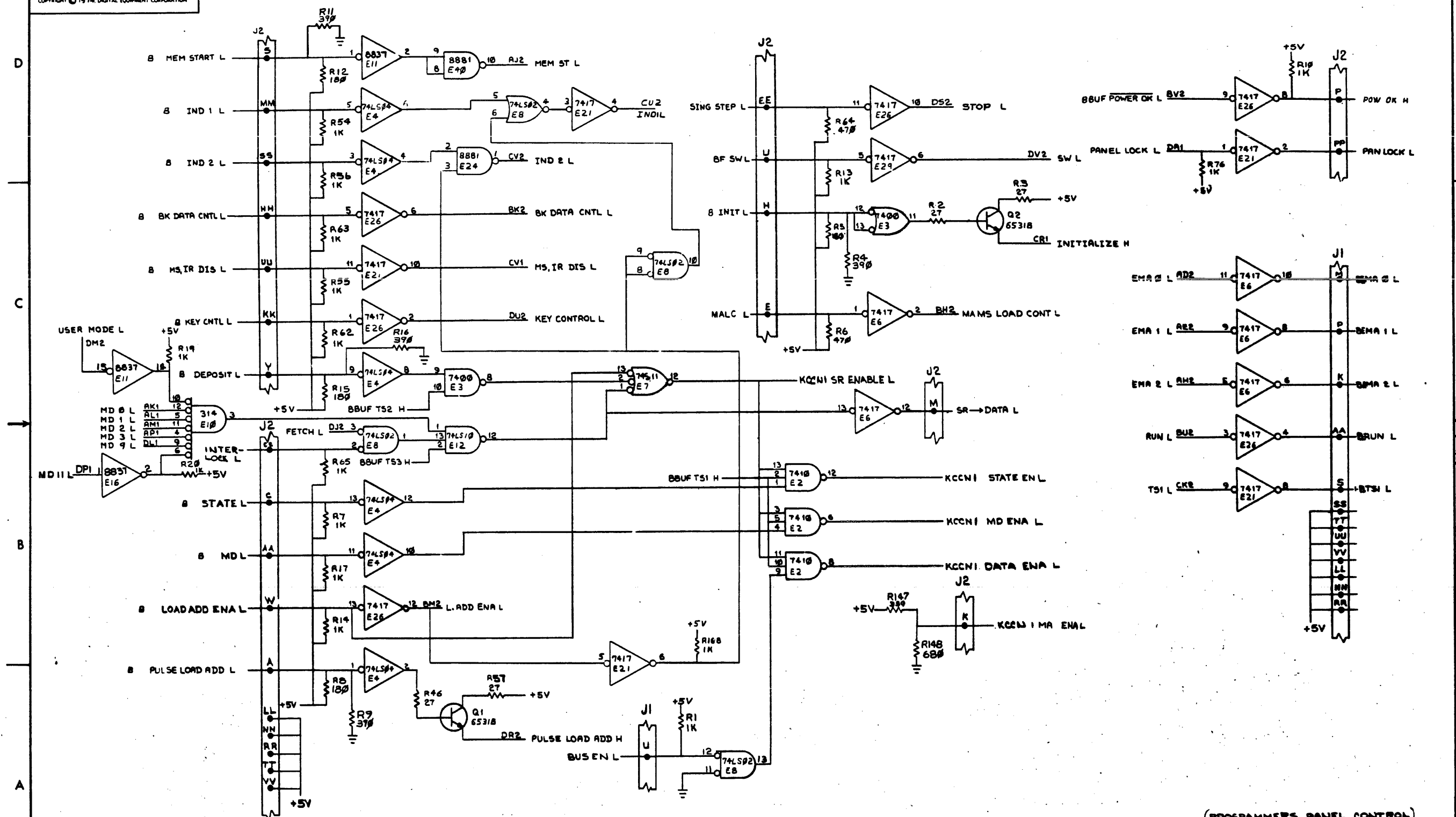
REVISIONS		
CHK	CHANGE NO.	REV.

(UART & XTAL CLK FREQ SOURCE)

TITLE	OPTION BD #1 (KCLK 2)	SIZE CODE	D CS	NUMBER	M8316-0-1	REV.	H
SCALE	1/1	SHEET	5	OF	8	DIST.	

REV. 001 DCS M8316-0-1 H

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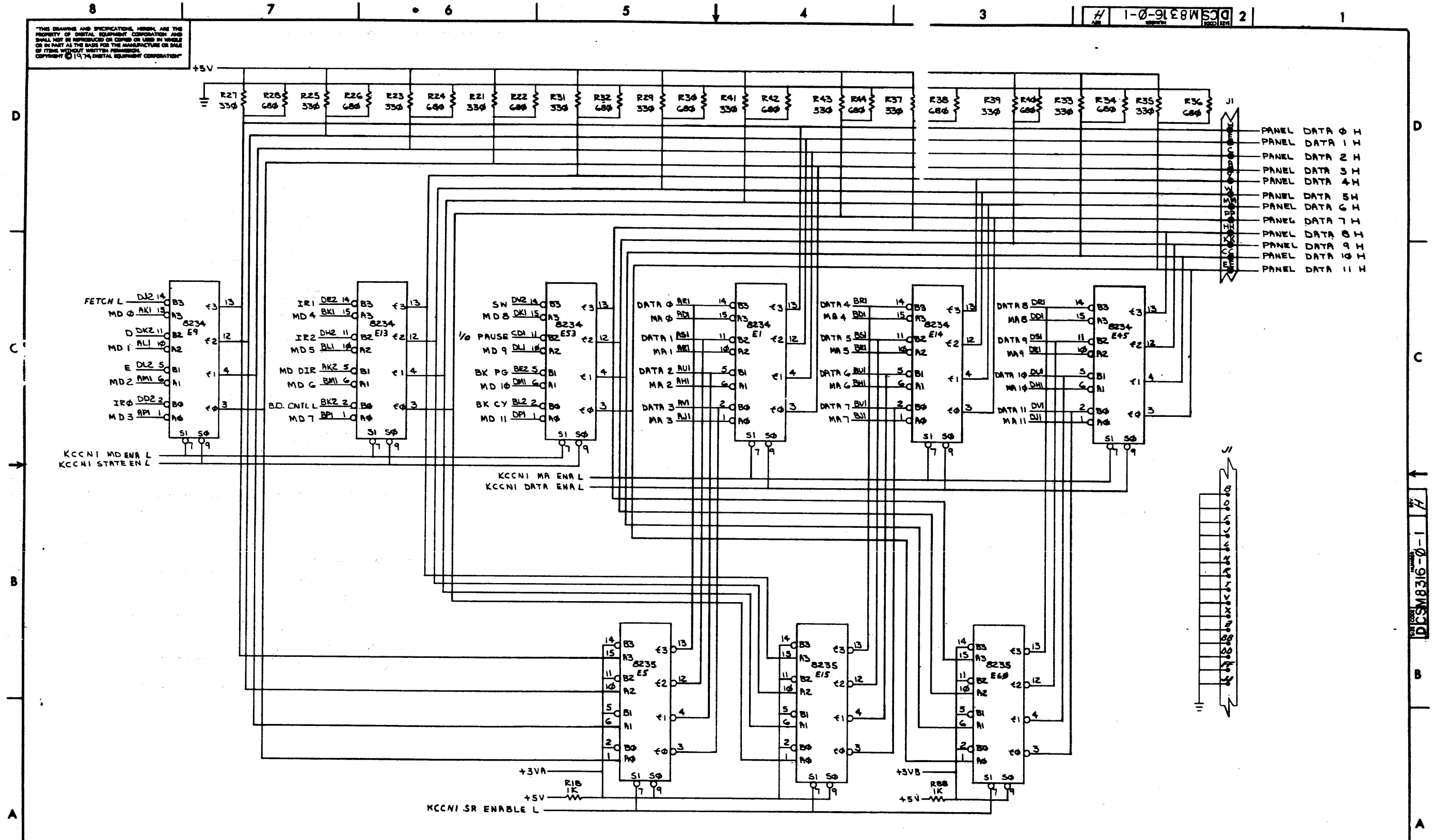
(PROGRAMMERS PANEL CONTROL)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	OPTION BD #1 (KCCN #)	SIZE CODE	D CS	NUMBER	M8316-0-1	REV.	H
SCALE		SHEET	6	OF	8	DIST.	

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1-0-9168W530 2



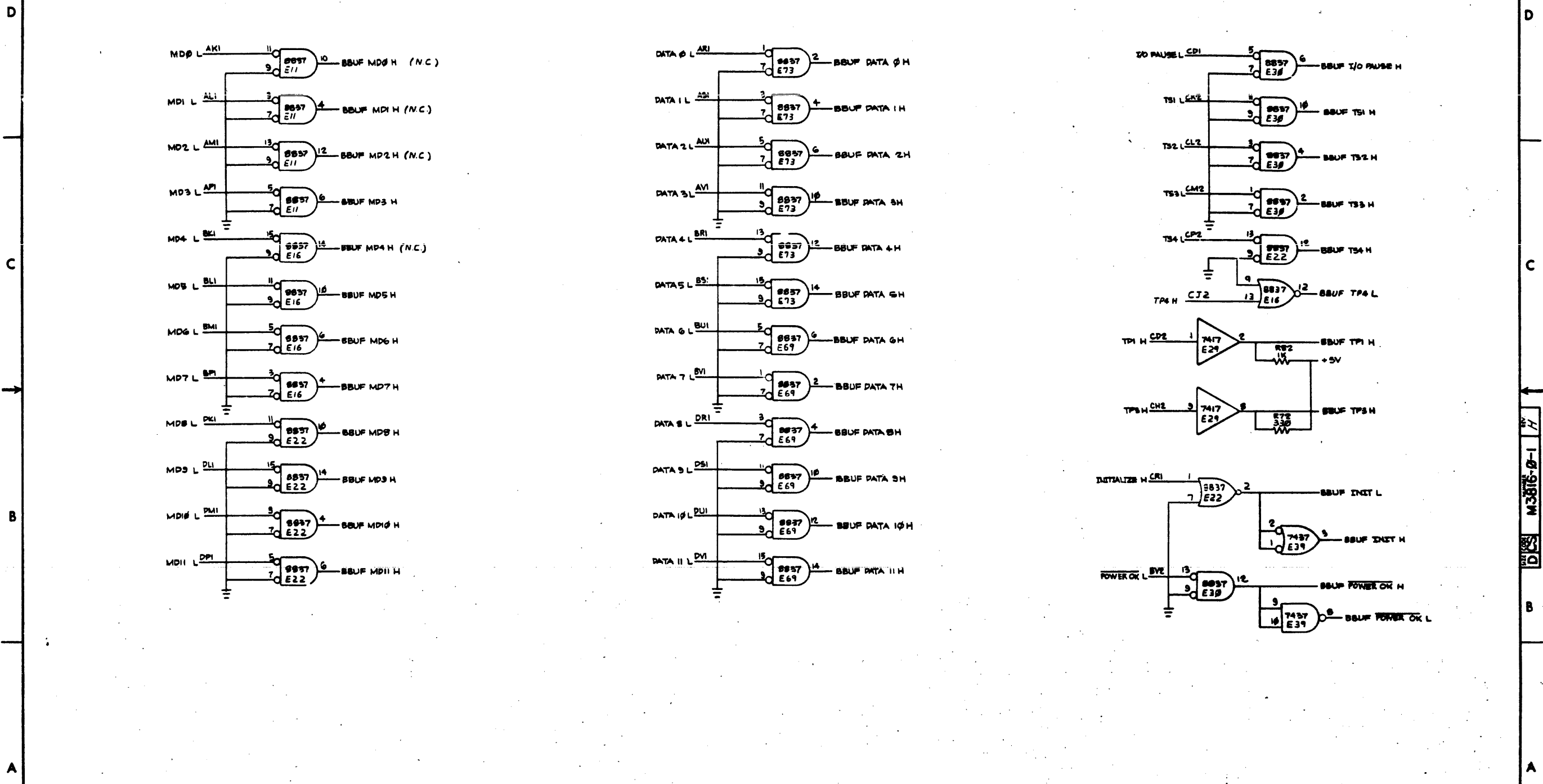
REVISIONS		
CHK	CHANGE NO.	REV.

(PROGRAMMERS PANEL MULTIPLEXERS)

TITLE	OPTION BOARD #1	SIZE CODE	NUMBER	REV.
	(KCCNI)	DCSM8316-0-1	H	
SCALE	1-1	SHEET	7 OF 8	DIST.

DCSM8316-0-1 H

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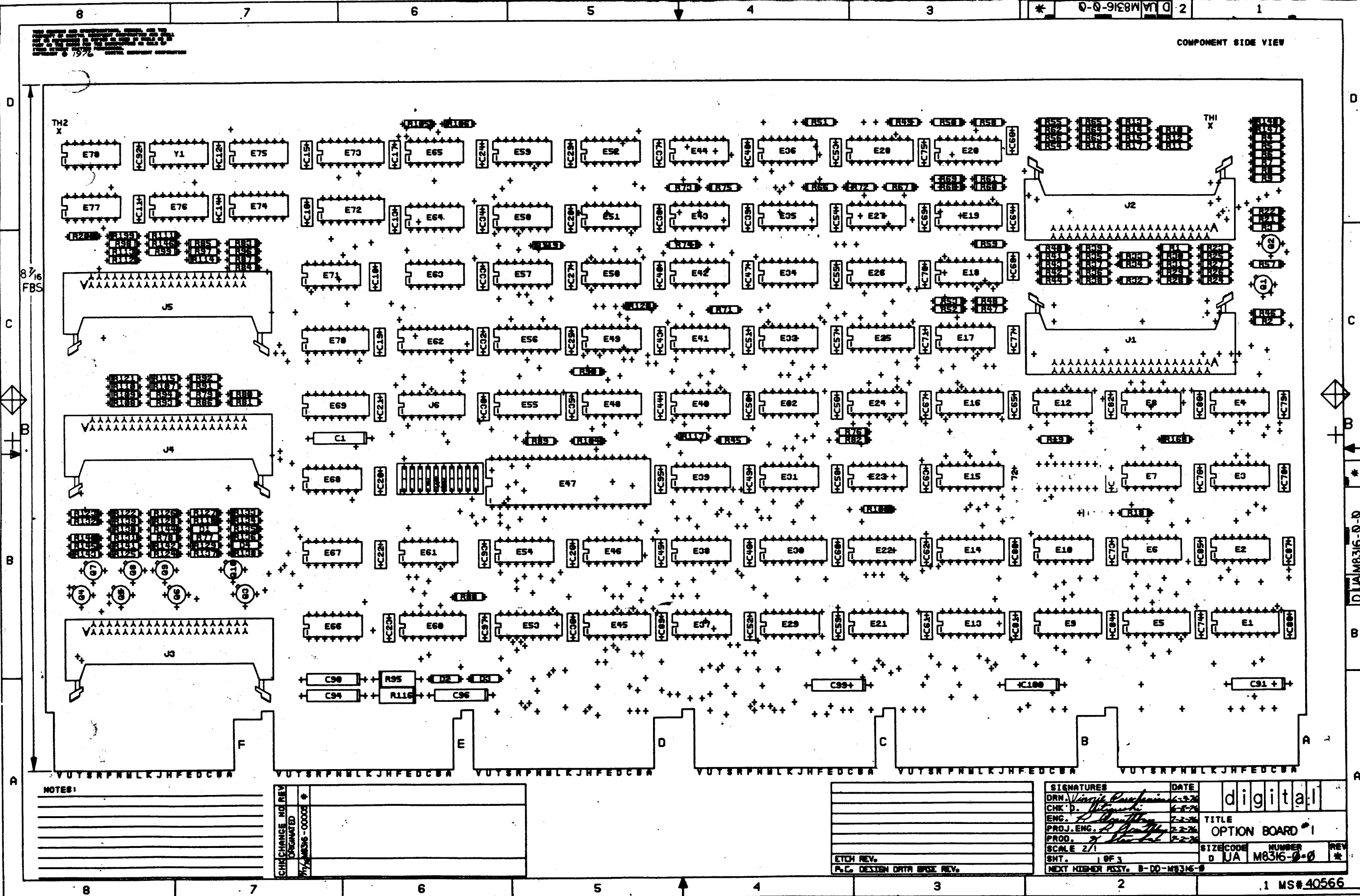


(BUS BUFFERS)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
8/A INTERNAL OPTIONS (BUFF)	DCS	M8316-0-1	H
SCALE	SHEET	OF	
	8		

COMPONENT SIDE VIEW



THE BOARD IS DESIGNED TO BE MOUNTED ON A
 STANDARD PCB. THE BOARD IS DESIGNED TO BE
 MOUNTED ON A STANDARD PCB. THE BOARD IS
 DESIGNED TO BE MOUNTED ON A STANDARD PCB.

NOTES:

CHANGE NO.	REV.
ORIGINATED	DATE
7/7/83	MS# 40566

ETCH REV.	DATE
P.C. DESIGN ORTH. BRD. REV.	

SIGNATURES	DATE	digital
DRN. <i>Virgil R. ...</i>	6-9-78	
CHK'D. <i>...</i>	6-8-78	TITLE
ENG. <i>...</i>	7-2-78	OPTION BOARD #1
PROJ. ENG. <i>...</i>	7-2-78	SIZE CODE
PROD. <i>...</i>	7-2-78	D JAM8316-0-0
SCALE 2/1		NUMBER
SHT. 1 OF 3		M8316-0-0
NEXT HIGHER ASSY. B-D0-M8316-0		REV
		*

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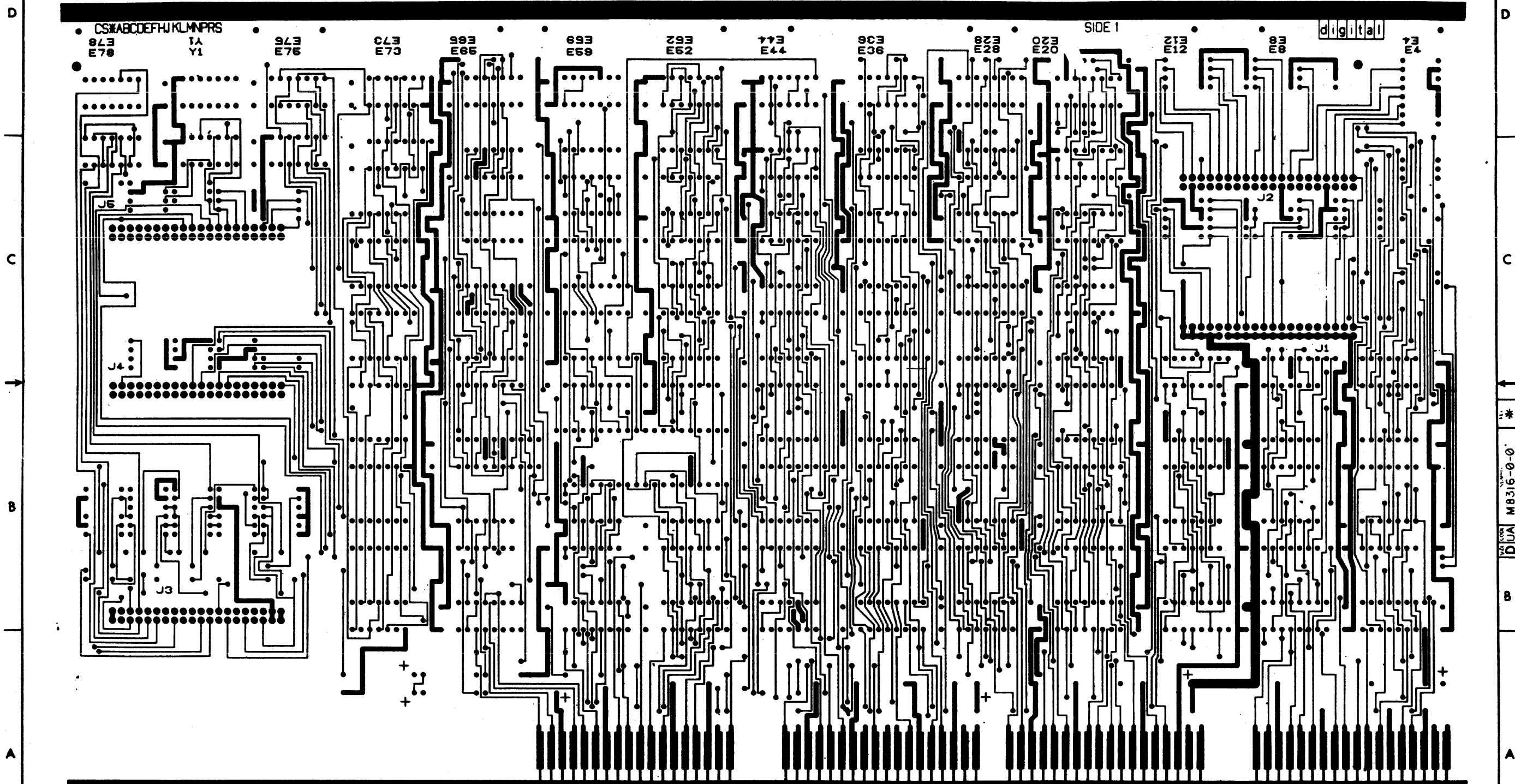
* 0-0-918W DUA M8316-0-0 2

1

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MS4-0568 M8316 5010900D P4



REVISIONS		
CHK	CHANGE NO	REV.

TITLE	OPTION BOARD *1	SIZE CODE	DUA	NUMBER	M8316-0-0	REV.	*
SCALE	2/1	SHEET	2 OF 3	DIST.			

DUA M8316-0-0 *

8

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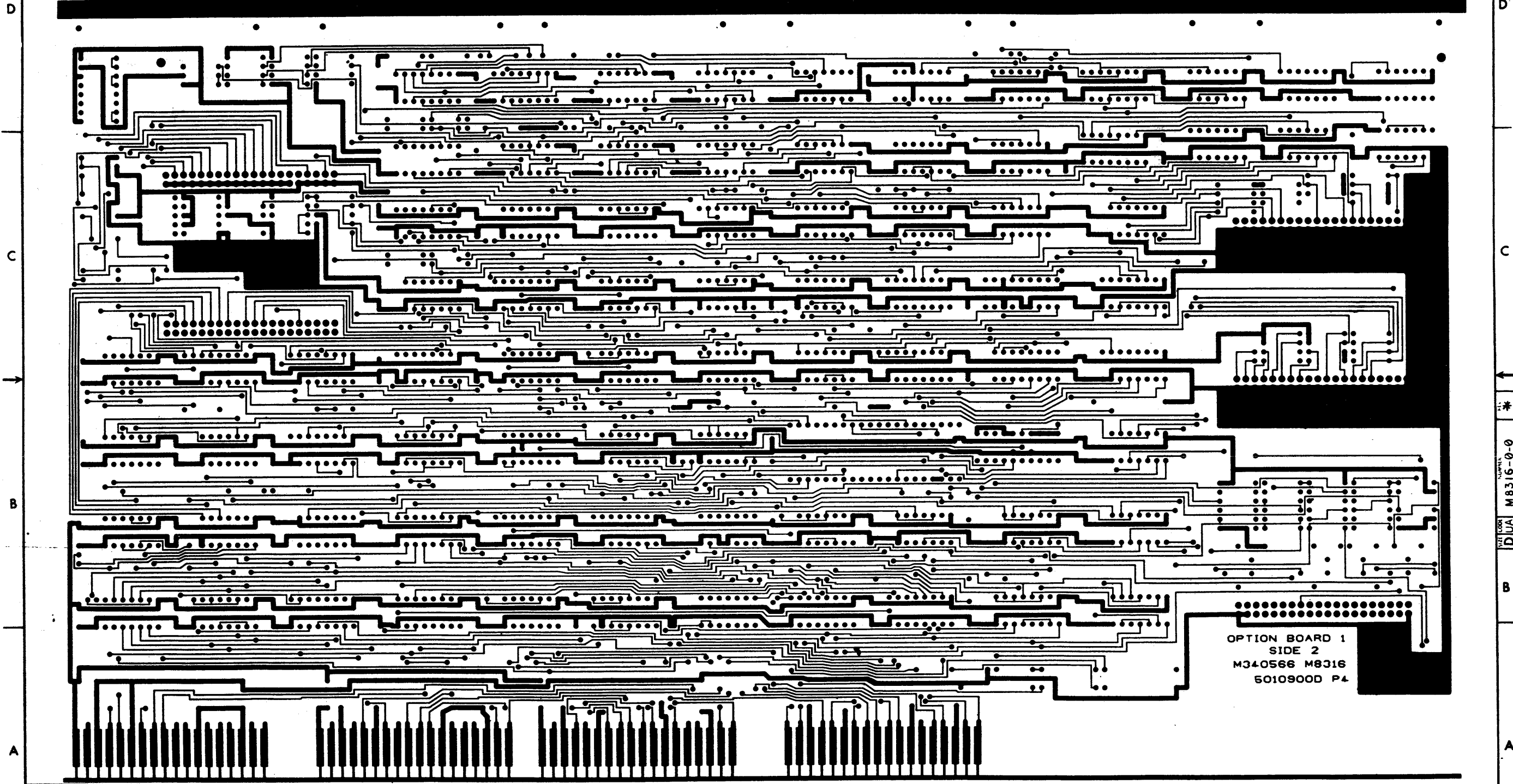
4

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* 0-0-9188W DUA M8316-0-0 2

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OPTION BOARD 1
SIDE 2
M340566 M8316
6010900 P4

REVISIONS		
CHK	CHANGE NO	REV.

TITLE	OPTION BOARD *1	SIZE CODE	DUA	NUMBER	M8316-0-0	REV.	*
SCALE	2/1	SHEET	3 OF 3	DIST.			

8 7 6 5 4 3 2 1

DUA M8316-0-0

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:				
PARTS LIST																		
MADE BY BOB KOPPENAL		CHECKED <i>L. Koppenal</i>																
DATE 3-31-76		DATE 3-30-76																
ENG <i>P. Anthony</i>		PROD <i>X Standard</i>																
DATE 7-2-76		DATE 7-2-76																
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8316- ϕ - ϕ														REF DESIGNATION
1	D-MD-5010900-0-0	5010900	ETCHED CIRCUIT BOARD	1														
2		1001610-01	CAP, . ϕ 1 uf, 1 ϕ ϕ v, 10%	78														C11-C3 ϕ , C32-C4 ϕ , C43-C88, C93, C95, C97
3		1000023	CAP, 33 ϕ Pf, 1 ϕ ϕ v, 5%	2														C89, C92
4		1002431	CAP, 2.2 uf, 35V, 10%	1														C9 ϕ
5		1005306	CAP, 6.8 uf, 35V, 10%	2														C91, C94, C96, C99-C10 ϕ , C1,
6		1109502	DIODE, IN4742	3														D1-D3
7		1100114	DIODE, D664	1														D4
8		1211164-06	SWITCH PACK (1 ϕ POS DIP)	1														S1
9		1211813-02	IC SOCKET (16 PIN)	1														J6
10		1210711-02	HANDLE ASSY	1														
11		1209941-02	CONNECTOR 4 ϕ P. RT. ANG. HD	5														J1-J5
12		1209941-03	LATCH LEFT 4 ϕ P. RT. ANG. HD	5														
13		1209941-04	LATCH RIGHT 4 ϕ P RT. ANG. HD	5														
14		1300202	RES., 47, 1/4W, 5%	5														R122-R125, R138
15		1300219	RES., 68, 1/4W, 5%	3														R129, R133, R137
16		1301424	RES., 68 ϕ , 1/4W, 5%	13														R22, R24, R26, R28, R3 ϕ , R32, R34, R36 R38, R4 ϕ , R42, R44, R148
17		1300417	RES., 2.2K, 1/4W, 5%	5														R118, R126, R136, R139, R141
18		1301874	RES., 5.6K, 1/4W, 5%	1														R127
19		1301423	RES., 6.8K, 1/4W, 5%	1														R131
20		1301522	RES., 27, 1/4W, 5%	4														R2, R3, R46, R57

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			OPTION BOARD #1	D-UA-M8316- ϕ - ϕ	B	PL	M8316- ϕ - ϕ	*
				SHEET 1 OF 4	INSERTION PARTS LIST DATA BASE REV D			

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION											NOTES:					
MADE BY BOB KOPPENAL DATE 3-31-76		CHECKED _____ DATE _____		SECTION 1																
ENG _____ DATE _____		PROD _____ DATE _____		ISSUED SECTION 1																
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8316-0-0															REF DESIGNATION	
21		1301322	RES., 180, 1/4W, 5%	8														R5, R8, R12, R15, R77, R78, R144, R145		
22		1300295	RES., 330, 1/4W, 5%	15														R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R147, R200, R72		
23		1300309	RES., 390, 1/4W, 5%	4														R4, R9, R11, R16		
24		1300316	RES., 470, 1/4W, 5%	2														R6, R64		
25		1300365	RES., 1K, 1/4W, 5%	83														R1, R7, R10, R13, R14, R17-R20, R45, R47-R56, R71, R58-R63, R65-R69, R73-R76, R79-R81, R82-R94, R117, R96-R100, R104-R115, R119-R121, R128, R130, R132, R135, R140, R142, R143, R146, R168, R134		
26		1309405	RES., 68, 1/2W, 5%	2														R116, R95		
27		1300250	RES., 150, 1/4W, 5%	1														R199		
28		1509338	TRANSISTOR, DEC 6531B	5														Q1, Q2, Q6, Q8, Q9		
29		1503409-01	TRANSISTOR, DEC 6534B	5														Q3, Q4, Q5, Q7, Q10		
30		1811660-02	CRYSTAL OSCILLATOR, 5.0688 MHZ	1														Y1		
31		1912024	IC., 74LS74	6														E41, E43, E52, E64, E48, E49		
32		1912799	IC., 74LS00	3														E32, E35, E65		
33		1912807	IC., 74LS10	1														E12		
34		1912815	IC., 74LS30	1														E17		
35		1912801	IC., 74LS02	4														E8, E36, E51, E57		
36		1909053	IC., 7492	2														E23, E37		
37		1909054	IC., 7493	1														E59		
38		1910537	IC., 74S11	1														E7		
39		1912803	IC., 74LS04	5														E4, E27, E33, E74, E68,		
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	EN-01140A-16-R276(325) DRB 125								SHEET 2 OF 4			INSERTION PARTS LIST DATA BASE REV D								

DIGITAL EQUIPMENT CORPORATION				QUANTITY / VARIATION										NOTES:							
PARTS LIST																					
MADE BY BOB KOPPENAL		CHECKED																			
DATE 4 NOV 76		DATE																			
ENG		PROD																			
DATE		DATE																			
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8316-0-0																	REF DESIGNATION
40		1909705	IC., 8881	10																	E40, E24, E54, E42, E46, E50, E66, E61, E75, E58
41		1909928	IC., 7416	2																	E71, E76
42		1909929	IC., 7417	5																	E6, E26, E31, E29, E21
43		1909935	IC., 8235	3																	E5, E15, E60
44		1912019	IC., 74LS42	3																	E19, E28, E25
45		1912805	IC., 74LS00	2																	E34, E44
46		1910322	IC., 1488L	1																	E38
47		1910323	IC., 1489L	1																	E78
48		1909704	IC., 314A	1																	E10
49		1911469	IC., 8640	1																	E77
50		1910459	IC., 1602A (UART)	1																	E47
51		1912853	IC., 74LS175	1																	E56
52		1912697	IC., 74LS174	3																	E55, E70, E72
53		1910091	IC., 7437	1																	E39
54		1911315	IC., 8234	6																	E1, E9, E14, E13, E45, E53
55		1911116	IC., 8837	6																	E11, E16, E30, E22, E69, E73
56		2112623	IC., 5016 (BAUD RATE GEN.)	1																	E62
57		23062A1	ROM #1 KLDK #1, 32 X8	1																	E18
58		23063A1	ROM #2 KLDK #2, 32 X 8	1																	E20
59		1905575	IC., 7400	1																	E3

E.C.O. NO.

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						SHEET 3 OF 4		INSERTION PARTS LIST DATA BASE REV D			

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION										NOTES:				
MADE BY JACK MASON DATE 13 APRIL 76		CHECKED DATE		SECTION	M8316-Ø-Ø													
ENG DATE		PROD DATE		ISSUED SECTION														
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION															REF DESIGNATION
60		1905576	IC. ,7410	1														E2
61		1909686	IC. ,7404	2														E63, E67
62		9006732	EYELET	12														

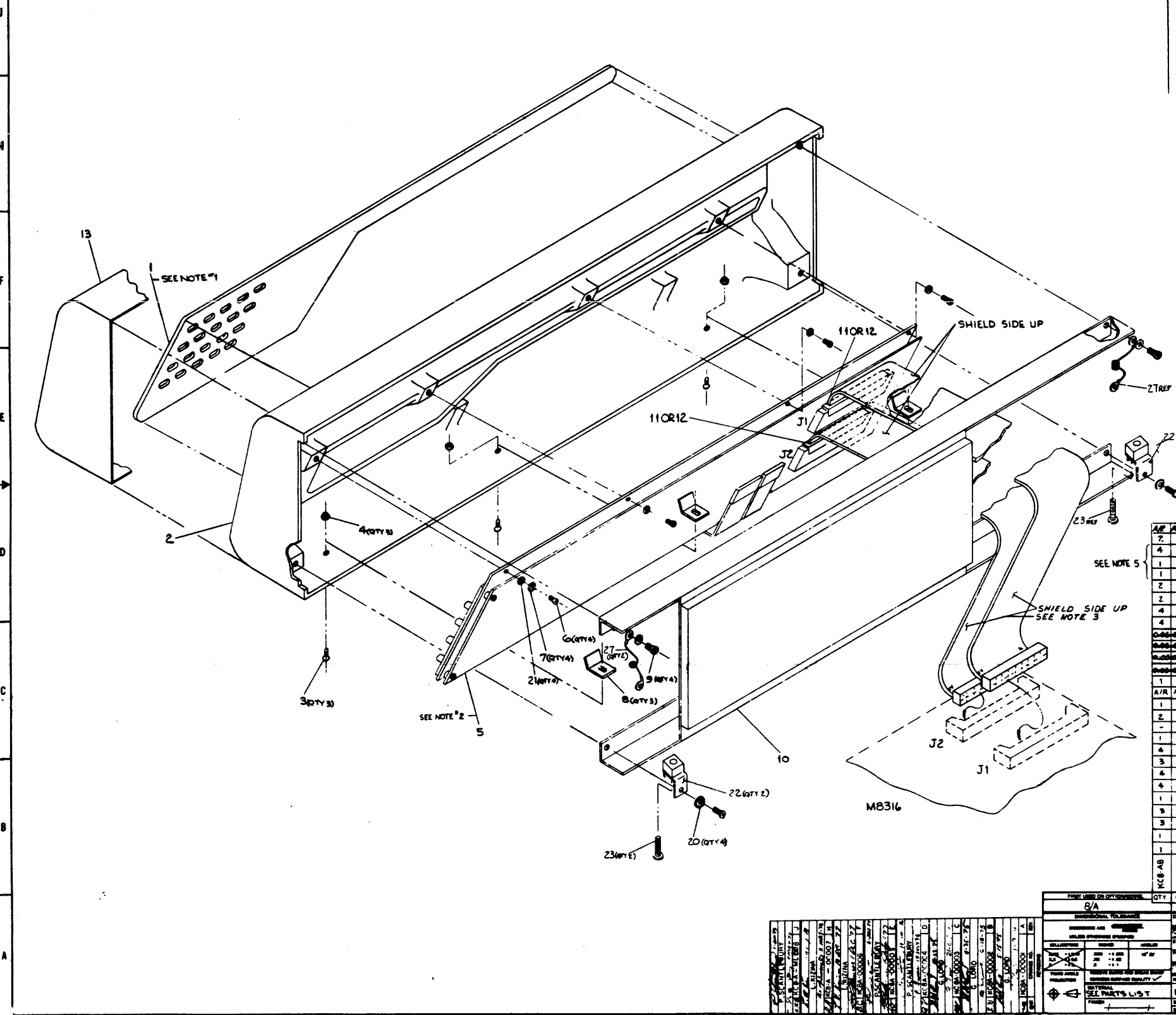
E.C.O. NO.

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EN-01140A-16-R276(325) DRB 125								SHEET 4 OF 4				INSERTION PARTS LIST DATA BASE REV D					

DO NOT SCALE DRAWING

PART NO	VARIATION
KCB-AA	PROD'S CONSOLE (M8316)
KCB-AB	REMOTE PROD'S CONSOLE (M8316)

- NOTES:**
- ASSEMBLE ITEM #1 (PANEL) TO ITEM #2 (BEZEL) USING SILASTIC ADHESIVE ITEM #4
 - FOR PROPER ALIGNMENT OF KEYPAD OF MODULE ASSEMBLY (ITEM #5) INTO BEZEL (ITEM #2), DO THE FOLLOWING:
 - PLACE MODULE ASSEMBLY (ITEM #5) INTO BEZEL (ITEM #2).
 - START MOUNTING HARDWARE, ITEMS 6, 7 AND 21 INTO BEZEL.
 - BEFORE TIGHTENING DOWN ITEMS 6, 7 AND 21, PUSH MODULE ASSEMBLY TOWARDS THE TOP OF BEZEL. THE KEYPAD, WHEN VIEWED FROM THE FRONT OF BEZEL, SHOULD JUST TOUCH THE TOP EDGE OF THE KEYPAD CUTOUTS IN BEZEL.
 - TIGHTEN ITEMS 6, 7 AND 21.
 - NOW SECURE MODULE ASSEMBLY BOTTOM TO BEZEL WITH ITEMS 3, 4 AND 8; BEING SURE THAT CLIPS (ITEM #8) ARE PRESSED FIRMLY AGAINST MODULE ASSEMBLY.
 - MATE BC08R CABLES J1 (KCB-A) TO J1 (M8316) J2 (KCB-A) TO J2 (M8316)
 - SEE SHEET 2 FOR INSTRUCTIONS OF MOUNTING BEZEL TO BOX AND CABINET
 - LOOSE SHIP ITEMS 24, 25 & 26 WITH ASSY



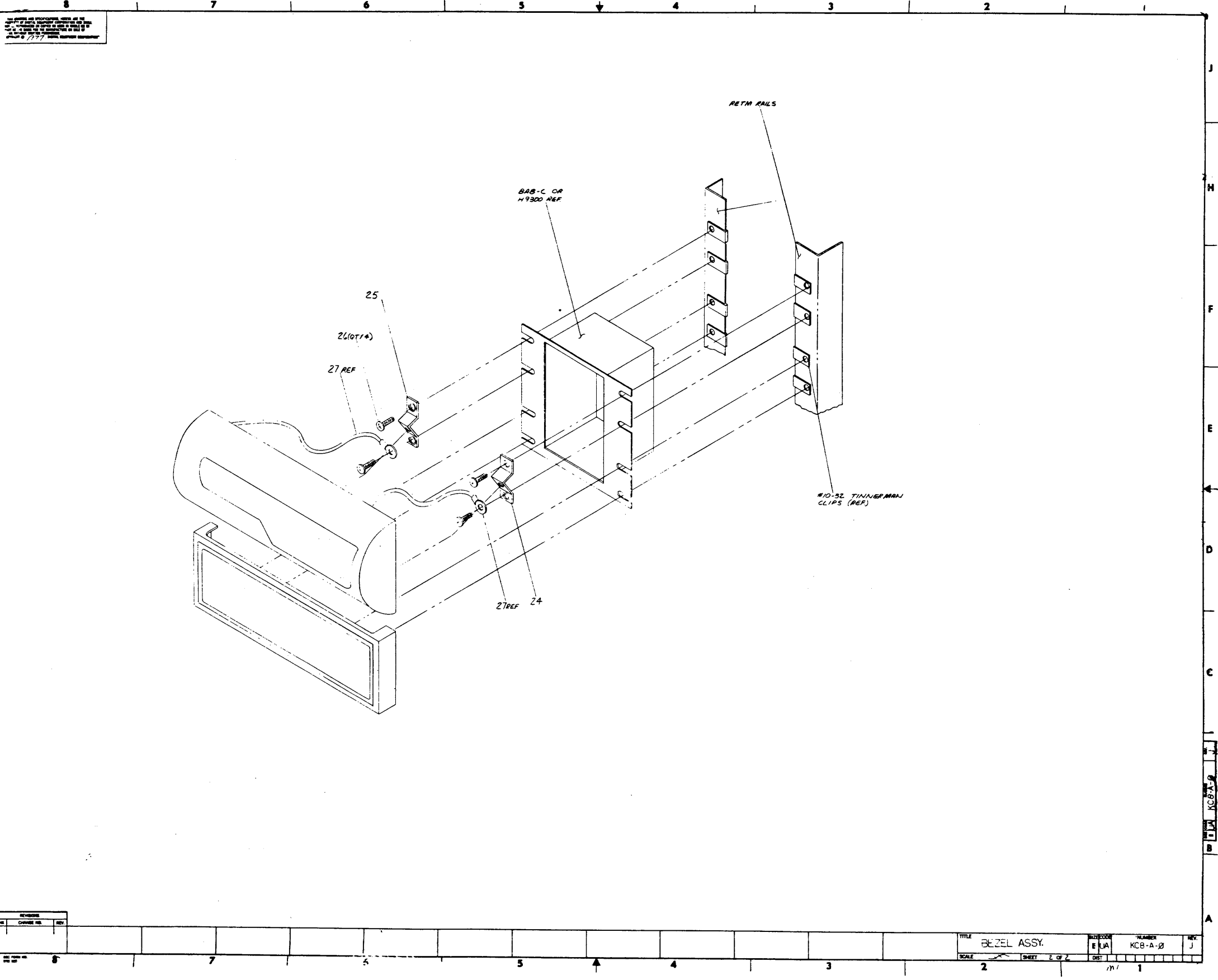
QTY	DESCRIPTION	STOCK#	REF
2	CABLE ASSY, FLEX	121907-01	27
4	SCR PPH 10-BEL-50	9006073-03	26
1	BRKT CABINET	741709-1	25
1	BRKT CABINET	741709-0	24
2	SCR, SOC. HD, D 32 X 10	9006350-08	23
2	BRKT, BEZEL	C-1A-70M524	22
4	WASHER FLAT	9006653	21
4	WASH EXT TOOTH LOCK #8	9008151	20
1	SHIPPING LIST	A-PL-KCB-A-2	15
A/R	ADHESIVE, SILASTIC	9009158	14
1	COVER PROTECTIVE BEZEL	D-40-743961-0-0	13
2	I/O CABLE BC08R	C-1A-BC08R-12	12
2	I/O CABLE BC08R	C-1A-BC08R-01	11
1	BRACKET BEZEL	C-1A-741987-0-0	10
4	SCR PHLD PAN #32 X .38	9006497-1	9
3	CLIP	B-10-742352-0-0	8
4	WASH EXT TOOTH LOCK #6	9007649	7
4	SCR PHLD PAN #32 X .38	9006020-1	6
1	KEYBOARD ASSY	D-40-7010644-00	5
3	NUT KEPS #4-40	9006587	4
3	SCR PHLD FLAT #40 X .375	9006011-2	3
1	BEZEL (PREMOUNTED DR)	E-1A-7412349-3-0	2
1	PANEL	D-1A-742395-1-0	1

REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR PRODUCTION	10/1/75
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REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR PRODUCTION	10/1/75
2
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BEZEL ASSY

KCB-AA



ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES AND DECIMALS THEREOF.
 UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE TO CENTER UNLESS INDICATED OTHERWISE.
 DATE: 1/17/77

REV	DESCRIPTION

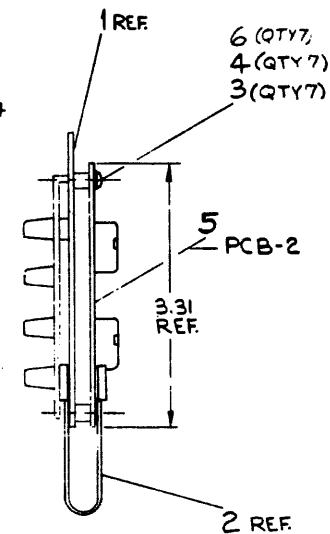
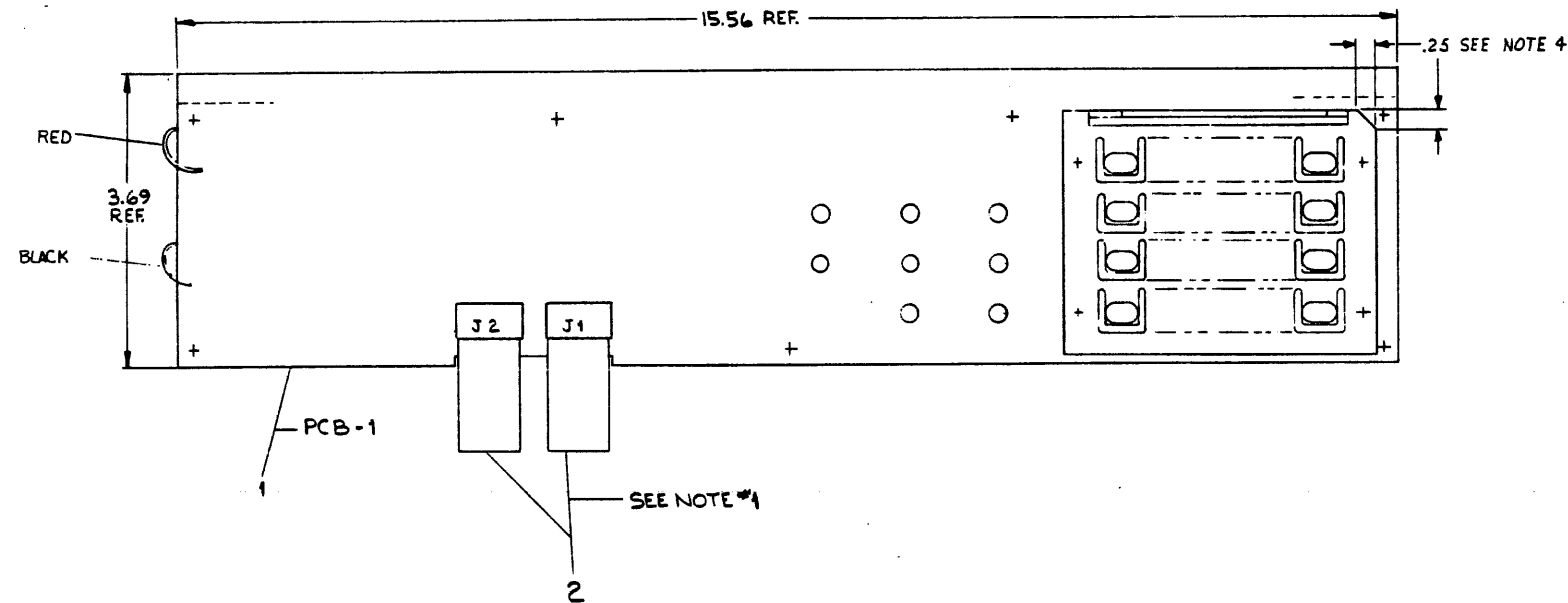
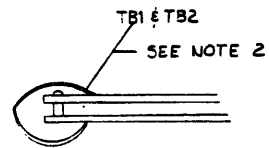
TITLE	BEZEL ASSY.	SIZE CODE	E/A	NUMBER	KCB-A-0	REV	J
SCALE	1:1	SHEET	2 OF 2	DIST			

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DO NOT SCALE DRAWING

NOTES:

1. INSTALL ITEM #2 (CABLE) AS FOLLOWS.
PCB-1-J1 TO PCB-2-J3
PCB-1-J2 TO PCB-2-J4
2. CONNECT RED WIRE FROM PCB-1 TO TB1 ON PCB-2. CONNECT BLACK WIRE FROM PCB-1 TO TB2 ON PCB-2.
3. ITEM #7 MAY BE RECYCLED WHEN USED FOR INTERPLANT SHIPMENT.
4. CLIP UPPER RIGHT HAND LIP OF KEYPAD OFF TO ALLOW PROPER ALIGNMENT INTO BEZEL.



SEE NOTE 3

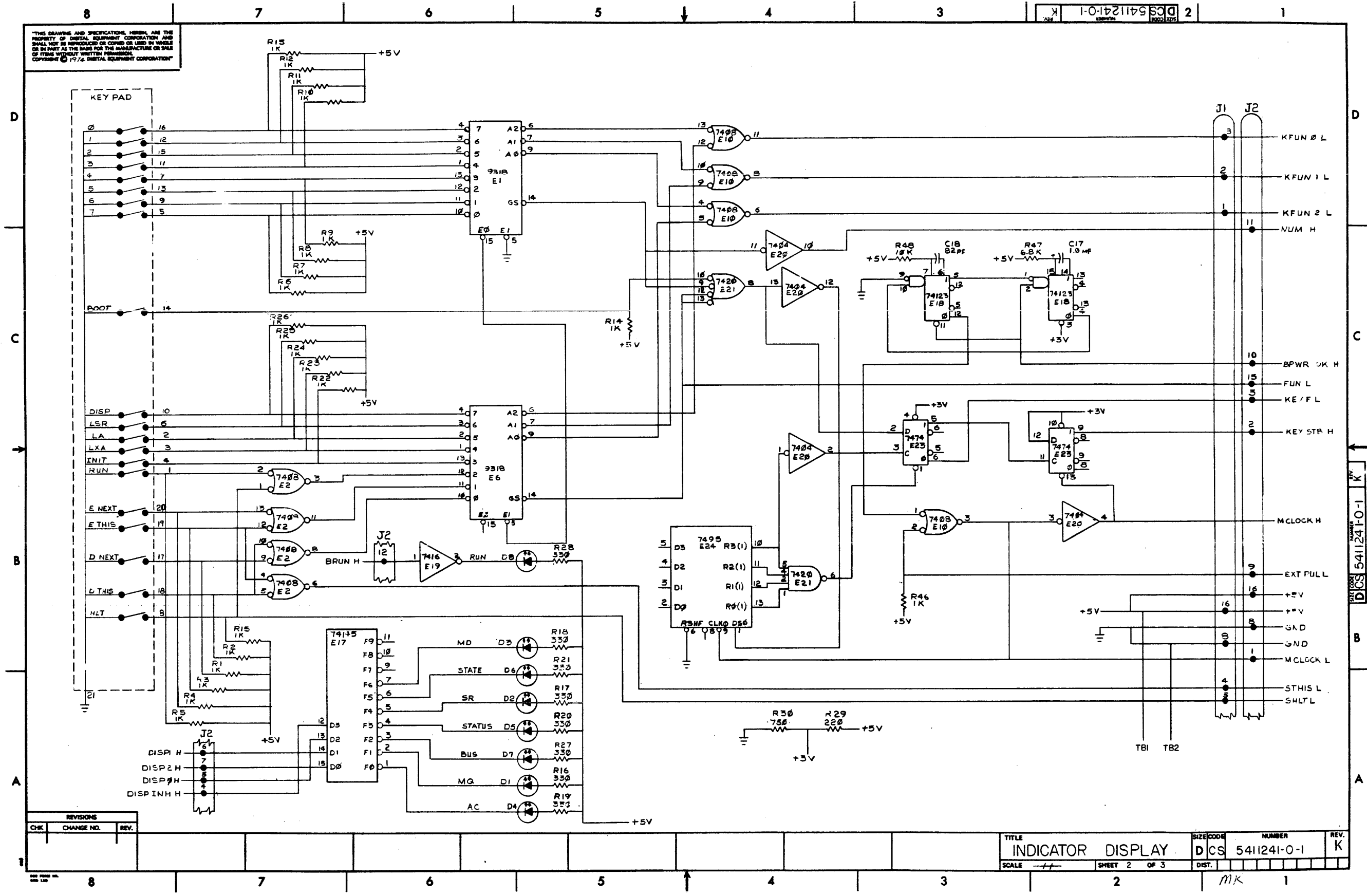
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PACKAGING INSTRUCTIONS	A-SP-3700/88-0-0	7
7	WASHER, FLAT #4	9006635	6
1	REGISTERS AND CONTROL	D-CS-5411316-0-1	5
7	WASH INT LOCK #4	9006632	4
7	SCR PHL HD PAN #4-40X.25	9008301-1	3
2	CABLE, KEYBOARD	C-1A-7008612-00	2
1	INDICATOR DISPLAY	D-CS-5411241-0-1	1

REV.	CHG	DATE	BY	DESCRIPTION
1				
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FIRST USED ON OPTION/MODEL 8/A		PARTS LIST	
DIMENSIONAL TOLERANCE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		TITLE digital KEYBOARD ASSY.	
MILLIMETERS XXX = ±.05 XX = ±.08 X = ±.1	INCHES XXX = ±.005 XX = ±.008 X = ±.01	ANGLES 45° ±.01	DATE 12-15-74 1-23-75 1-23-75
THIRD ANGLE PROJECTION	REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	NEXT HIGHER ASSY.	DATE 1-23-75
MATERIAL SEE PARTS LIST	FINISH	EUN-KCB-A-0	DATE 1-23-75
SCALE 1/1	SHEET OF	SIZE CODE DAD	NUMBER 7010644-0-0
		DIST.	REV. C

DAD 7010644-0-0 C

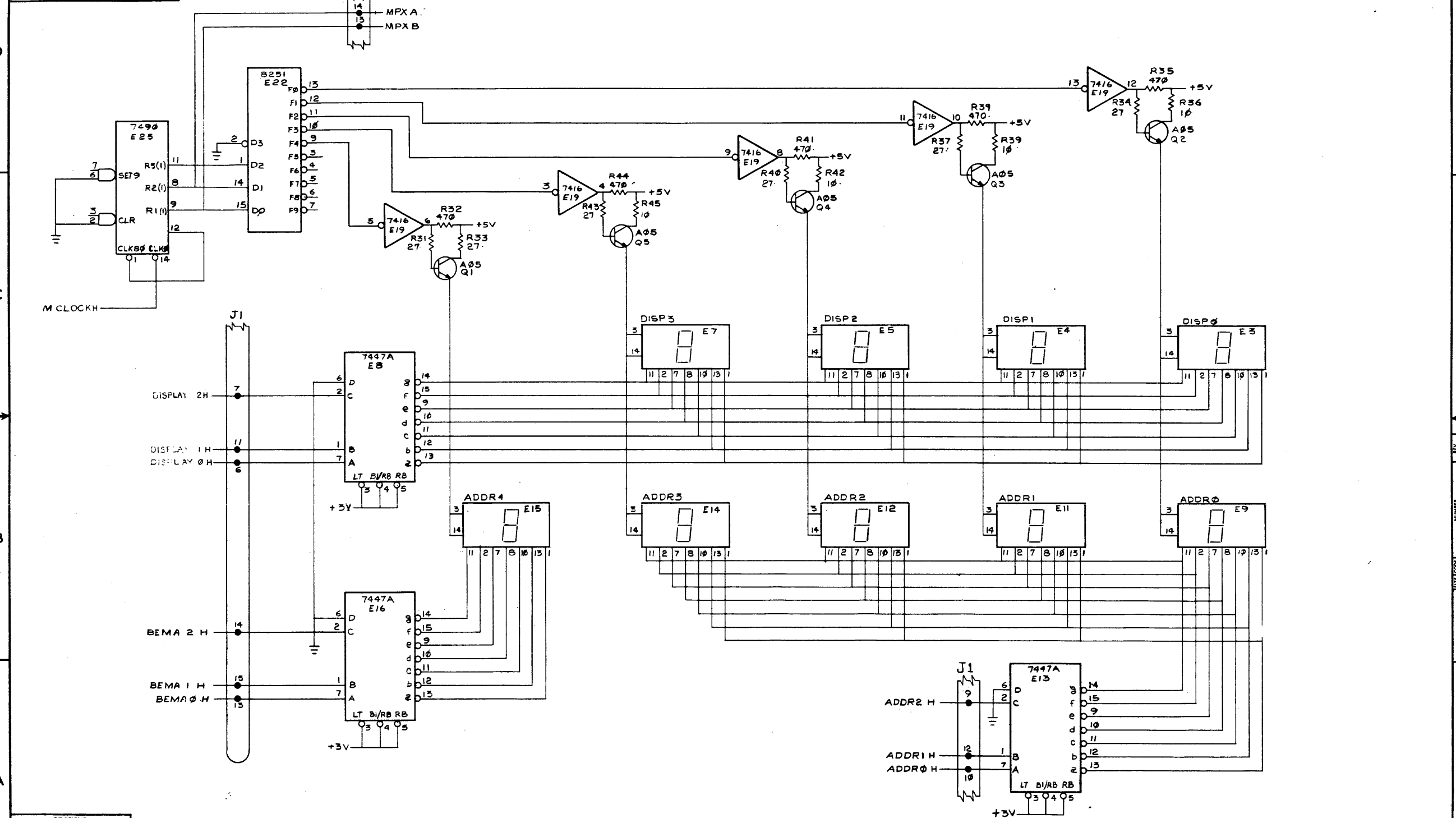
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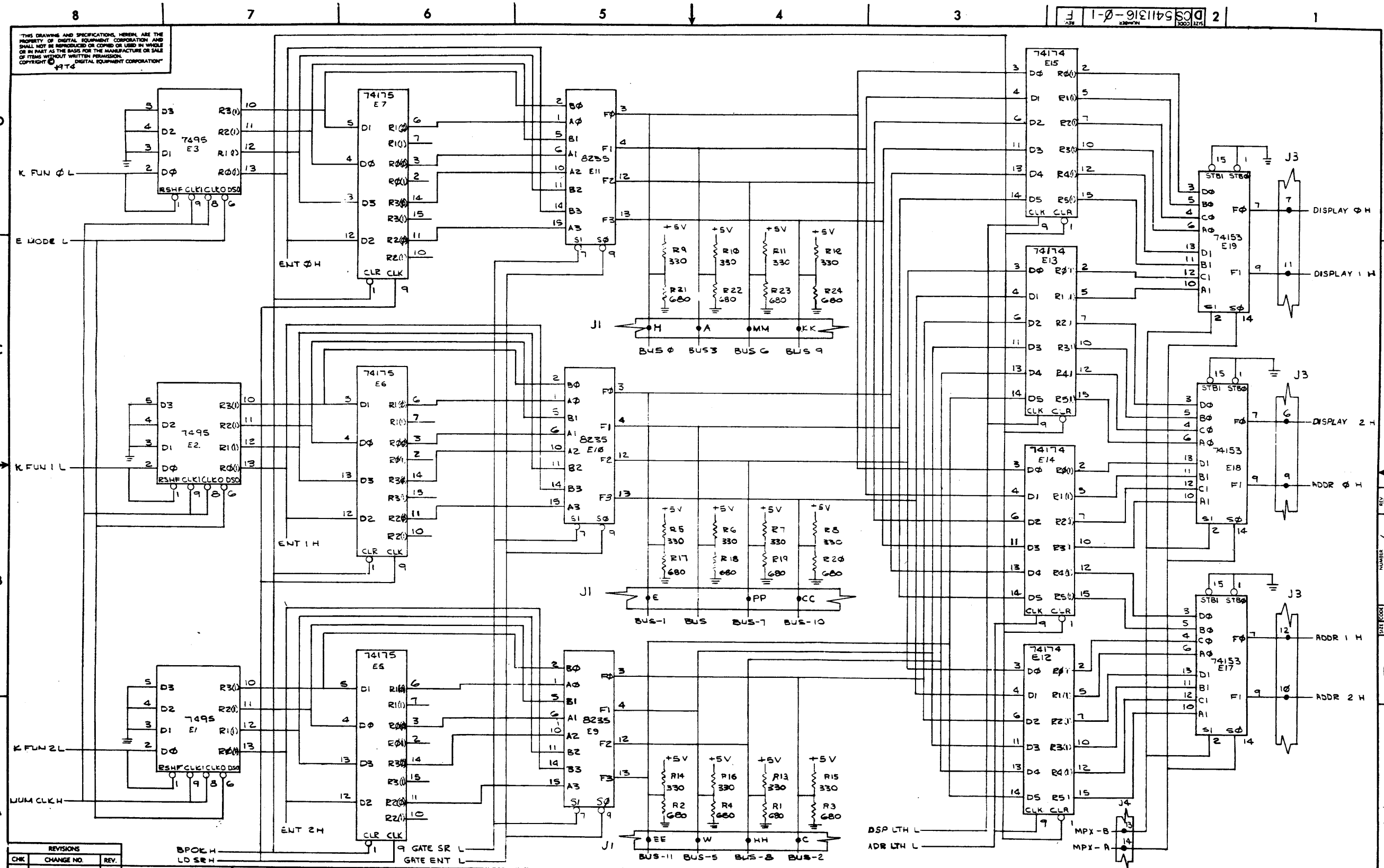
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: INDICATOR DISPLAY
 SIZE: DCS
 NUMBER: 5411241-0-1
 REV: K
 SHEET 2 OF 3
 SCALE: 1:1
 DIST. MK

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REVISIONS		
CHK	CHANGE NO.	REV.



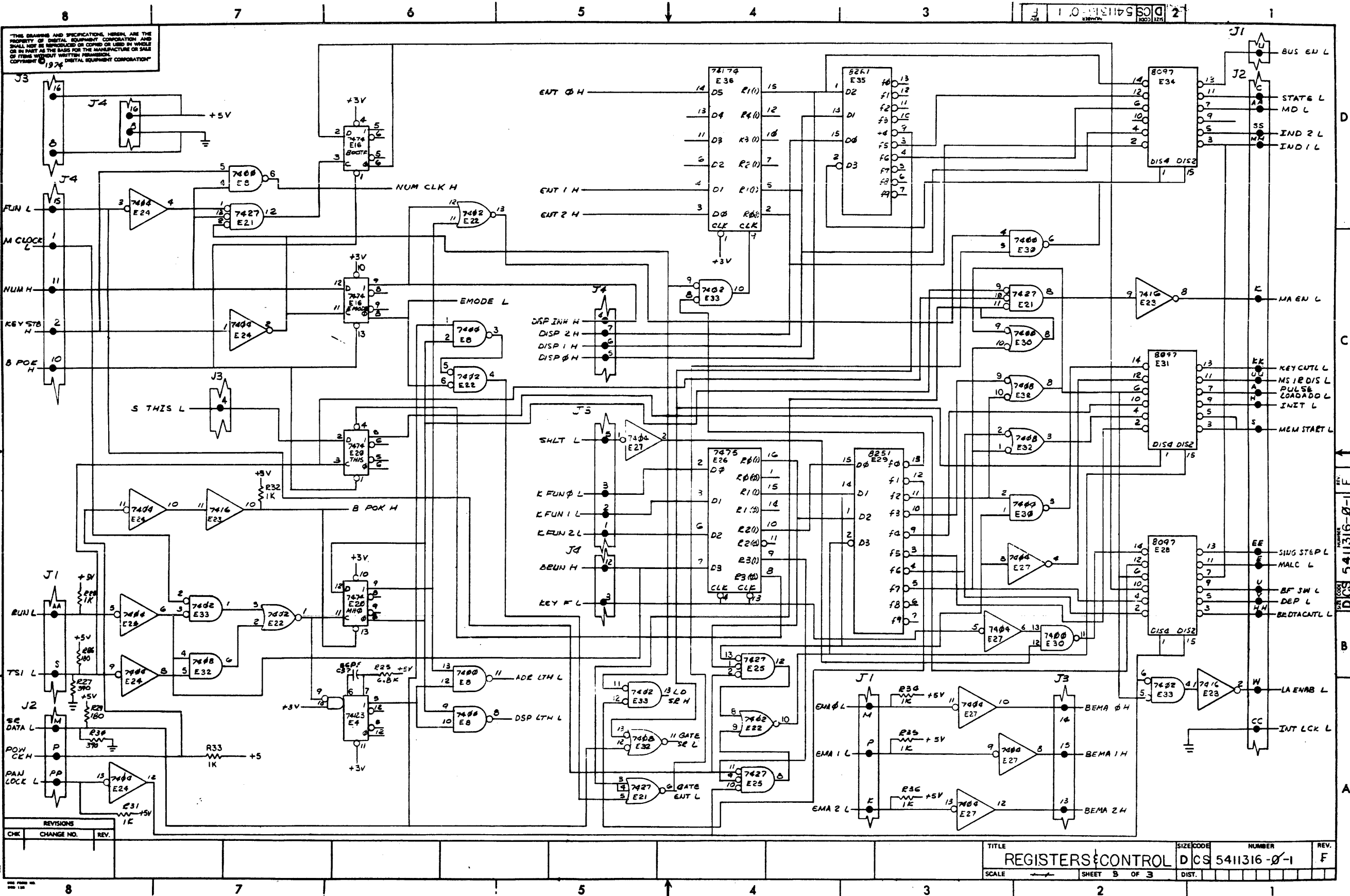
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
REGISTERS & CONTROL		DCS	5411316-0-1	F
SCALE	SHEET	OF	DIST.	
	2	3		

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DCS 5411316-0-1

DCS 5411316-0-1



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REVISIONS		
CHK	CHANGE NO.	REV.

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DIGITAL EQUIPMENT CORPORATION		DATE 22 MARCH 78	
MAYNARD, MASSACHUSETTS			
ENGINEERING SPECIFICATION			
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE			
REVISIONS			
REV	DESCRIPTION	CHG NO	DATE
A	ECO CHANGE	00001	4-78
B	ECO CHANGE	ML002	12-78

APPD <i>R.B. Regan</i>	SIZE A	CODE SP	NUMBER KT8A-3	REV B	SHEET 1 OF 12
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ENG *[Signature]* EMP ID 16-0022-16-0370-081
 DRA 108 M/L SHEET 1 OF 12

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE			
<p>I General</p> <p>This document will define the hardware requirements and tests to be performed to: #1) install, #2) configure and #3) accept a KT8-AA system or KT8-AB add-on to an existing system.</p> <p>Because the KT8-A Memory Management options has several possible hardware configurations, the Hardware Rules/Restrictions (appendix A), General Configuration Guide (appendix B) and Configuration Examples (appendix C) should be referenced before installing this option.</p> <p>A. If the KT8-AA was shipped as part of a system, refer only to the Acceptance procedure.</p> <p>B. If the KT8-AB is an add-on installation to upgrade an existing system, then refer to the Installation and Acceptance Procedures.</p>			
<p>II Hardware</p> <p>This section defines the required hardware to install and accept a KT8-A and also defines the three hardware designations of the KT8-A option.</p> <p>A. The KT can be installed and accepted on any 8A/420 or 620 machine.</p> <p>B. The KCPA Programmer's Console is not required, as the KT Diagnostics have a console package.</p> <p>C. Program loading media is via: Paper tape, Floppy, or RK05.</p> <p>D. The Three designations of the KT are as follows:</p> <ol style="list-style-type: none"> 1. KT8A-A - the KT Memory Management option shipped as part of a system configured by a DEC Manufacturing facility. 2. KT8A-B - the required hardware to upgrade an 8A/420 or 8A/620 system. The KMB-AC (MB317YB or YC) is part of this option. 			

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 DRA 108 M/L SHEET 2 OF 12

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE			
<p>3. KT8-EX - this option is required any time the memories are located in two separate boxes (788C's). If required as part of an add-on, both the KT8-AB and KT8-EX must be ordered as separate line items.</p>			
<p>III Installation</p> <p>Before proceeding with your installation refer to Appendix A and B to familiarize yourself with the rules and configurations. Also refer to the configuration example that most represents your particular installation.</p> <ol style="list-style-type: none"> 1. Install all memory in the system, refer to Configuration guide (appendix B). 2. Install the KT8-AB in any vacant OMNIBUS slot with an "E" connector. 3. If the system is comprised of two (2) 8A8C boxes and memory will be located in each box than install the M9820 terminator module, in any available "E" connector of the box not containing the KT8-A (M8416). Now connect the cable (78-11411-1J) between the two berg connectors of the M8416 and M9820. 			

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 DRA 108 M/L SHEET 3 OF 12

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE			
<p>IV Acceptance</p> <p>The time to accept a KT8-A configuration depends upon the amount of memory installed.</p> <ol style="list-style-type: none"> 1. Load and run the KT8-A Memory Management Diagnostic, Maindec 08-DJKTA-A, for five min. with NO errors. 2. Load and run the Extended Address Test Maindec 08-DHKMC-C, for one pass with NO errors. 3. Load and run the Extended Memory Data and Checkerboard Test, Maindec 08-DHKWA-D, for one pass with NO errors. 4. To insure system integrity, load and build a DEC/X8 program using version 2, which will exercise up to 128K of memory. It is important that the program is build using the latest DEC/X8 modules. <p>NOTE: Reference should be made to the latest write-up for DEC/X8 (version 2) as further parameters must be inputted to support break devices.</p>			

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 DRA 108 M/L SHEET 4 OF 12

ENGINEERING SPECIFICATION

KT8A

CONTINUATION SHEET

TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

APPENDIX A

HARDWARE RULES/RESTRICTIONS

- Any OMNIBUS CPU (KK8A or KK8F) using a BA8C box (28 slot box) is acceptable.
 - The KT8-A system can only be configured using any combination of M88AB (16K core) and M88C (16K or 32K MOS) memories.
NOTE: M88AA, M88A, M88A, M88E, M88EJ and M88F memories cannot be used to configure a KT8A system.
 - If the system is made up of M88AB core memories (16K), then they must be modified per ECO M88AB #7, refer to table 1 for instructions.
 - If the system is made up of M88C type memories (16K or 32K MOS), then refer to table 2 for switch configuration.
 - The PDP/8E chassis cannot be used as part of a KT8-A system.
 - If Power Fail/Auto Restart and/or Bootstraps are required as part of the system, then a KM8-AC (M8317YB or YC) must be used with the Memory Extension and Timeshare option disabled via the jumper configuration in table 3.
- NOTE: The M8317 and M8317YA are incompatible with the KT8A system.

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DRA 108

SIZE CODE A SP

NUMBER KT8A-3

REV B

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ENGINEERING SPECIFICATION

KT8A

CONTINUATION SHEET

TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

TABLE 1 M83-AB 16K CORE MEMORY CONNECTIONS

MEMORY		CONNECTIONS	
I BANK	I FIELD	I WIRE	I JUMPER
0	0-3 (0-16K)	AB1 to EB2	1-3, 3-4 in
	4-7 (16-32)	AB1 to EB2	2-4, 3-4 in
1	0-3 (32-48)	AB1 to ED2	1-3, 3-4 in
	4-7 (48-64)	AB1 to ED2	2-4, 3-4 in
2	0-3 (64-80)	AB1 to EL2	1-3, 3-4 in
	4-7 (80-96)	AB1 to EL2	2-4, 3-4 in
3	0-3 (96-112)	AB1 to ER2	1-3, 3-4 in
	4-7 (112-128)	AB1 to ER2	2-4, 3-4 in

TABLE 2A M88-CA 16K MOS MEMORY SWITCH SETTINGS

MEMORY		SWITCHES SET TO "OFF"	
I BANK	I FIELD	I	ALL OTHERS "ON"
0	0-3 (0-16K)	S1-1	
	4-7 (16-32K)	S1-2	
1	0-3 (32-48K)	S1-3	
	4-7 (48-64K)	S1-4	
2	0-3 (64-80K)	S1-5	
	4-7 (80-96K)	S1-6	
3	0-3 (96-112)	S1-7	
	4-7 (112-128)	S1-8	

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DRA 108

SIZE CODE A SP

NUMBER KT8A-3

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ENGINEERING SPECIFICATION

KT8A

CONTINUATION SHEET

TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

TABLE 2B M88-CB 32K MOS MEMORY SWITCH SETTING

MEMORY		SWITCHES SET TO "OFF"	
I BANK	I FIELD	I	ALL OTHERS "ON"
0	0-7 (0-32K)	S1-1 and S1-2	
1	0-7 (32-64K)	S1-3 and S1-4	
2	0-7 (64-96K)	S1-5 and S1-6	
3	0-7 (96-128)	S1-7 and S1-8	

TABLE 3 JUMPER CONFIGURATION TO DISABLE MEMORY EXTENSION AND TIMESHARE

JUMPERS
W1 OUT
W2 IN
W3 IN
W4 IN

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DRA 108

SIZE CODE A SP

NUMBER KT8A-3

REV B

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ENGINEERING SPECIFICATION

KT8A

CONTINUATION SHEET

TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

APPENDIX B

General Configuration Rules

- All memories must be physically located in the OMNIBUS where an "E" connector is present.
- Remembering the above rule, place the memories as far away as possible from the CPU.
- Direct Memory Address interfaces can only be located between the CPU and the first memory element. With one exception, in a two box system (2 BA8C's) where memory is located in both boxes a DMA interface may be located in any vacant slot of the box containing the CPU.
- Programmed I/O interfaces may be located in any vacant slot of the system.
- When memories are located in two BA8C chassis then the KT8-EX option must be used to extend the memory management option bank bits. The M9020 terminator card must be located in an "E" connector of the BA8C not containing the M8416. The 78-11411-13 cable is then connected between the M9020 and the M8416.

DEC FORM NO EN-01022-16-N370-1(81)
DRA 108

SIZE CODE A SP

NUMBER KT8A-3

REV B

SHEET 8 OF 12

ENGINEERING SPECIFICATION					CONTINUATION SHEET
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE					
APPENDIX C					
Configuration Examples					
Because the KT8-A is limited to use in the B88C chassis (28 slot box) there are only four possible configurations.					
1. The entire system located in one B88C with a KK8A CPU as shown below.					
SLOT	OPTION	DEFINITION	SIZE	CODE	NUMBER
			A	SP	KT8A-3
1	KK8A	CPU (M8315)			
2	DKC8A	OPTION ONE (M8316), IF REQUIRED			
3	KM8-AC	OPTION TWO (M8317B or YC), IF REQUIRED			
4	KT8-A	MEMORY MANAGEMENT OPTION (M8416)			
5	-----	DMA DEVICES CONFIGURED FROM THIS POINT TOWARD MEMORY			
6	-----				
7	-----				
8	-----				
9	-----				
10	-----				
11	MEMORY	MEMORY CONFIGURED FROM THIS POINT TOWARD THE CPU			
12	-----	ONLY I/O INTERFACES			
13	-----				
14	-----				
15	-----				
16	-----				
17	-----				
18	-----				
19	-----				
20	-----	ONLY I/O INTERFACES			

DEC FORM NO. EN-01022-16-N370-3(81)
DMA 108

ENGINEERING SPECIFICATION					CONTINUATION SHEET
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE					
3. The KT8-A system made up of two B88C boxes with the KK8F CPU in one box and all the memory located in the other box as shown below.					
SLOT	OPTION	DEFINITION	SIZE	CODE	NUMBER
			A	SP	KT8A-3
1	KK8F	TERMINATOR, M8320			
2	-----	ANY I/O INTERFACE			
3	-----	ANY I/O INTERFACE			
4	KT8-A	MEMORY MANAGEMENT OPTION (M8416)			
5	-----	MEMORY CONFIGURED FROM THIS POINT TOWARD THE CPU			
6	-----				
7	-----				
8	-----				
9	-----				
10	-----				
11	-----	LAST POSSIBLE MEMORY IN THIS CONFIGURATION			
12	-----	ANY DMA OR I/O INTERFACES			
13	-----				
14	-----				
15	-----				
16	-----				
17	-----				
18	-----				
19	-----				
20	BC08H-3	OMNIBUS EXPANDER CABLES			
		(BOTTOM B88C)			
1	BC08H-3	OMNIBUS EXPANDER CABLES			
2	DKC8A	OPTION ONE (M8316), IF REQUIRED			
3	KM8-AC	OPTION TWO (M8317B or YC), IF REQUIRED			
4	-----				
5	-----				
6	-----				
7	-----				
8	-----				
9	-----				
10	-----				
11	-----				
12	-----				
13	-----				
14	-----				
15	-----				
16	-----				
17	-----				
18	KK8F	DMA AND I/O INTERFACES CONFIGURED FROM THIS POINT TOWARD MEMORY			
19	KK8F	CPU, M8310			
20	KK8F	CPU, M8300			

DEC FORM NO. EN-01022-16-N370-3(81)
DMA 108

ENGINEERING SPECIFICATION					CONTINUATION SHEET
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE					
2. The entire system located in one B88C with a KK8F CPU as shown below.					
SLOT	OPTION	DEFINITION	SIZE	CODE	NUMBER
			A	SP	KT8A-3
1	KK8F	TERMINATOR, M8320			
2	DKC8A	OPTION ONE (M8316), IF REQUIRED			
3	KM8-AC	OPTION TWO (M8317B or YC), IF REQUIRED			
4	KT8-A	MEMORY MANAGEMENT OPTION (M8416)			
5	-----	MEMORY CONFIGURED FROM THIS POINT TOWARD CPU			
6	-----				
7	-----				
8	-----				
9	-----				
10	-----				
11	-----				
12	-----				
13	-----				
14	-----				
15	-----				
16	-----				
17	-----				
18	KK8F	DMA AND I/O INTERFACES CONFIGURED FROM THIS POINT TOWARD MEMORY			
19	KK8F	CPU, M8310			
20	KK8F	CPU, M8300			

DEC FORM NO. EN-01022-16-N370-3(81)
DMA 108

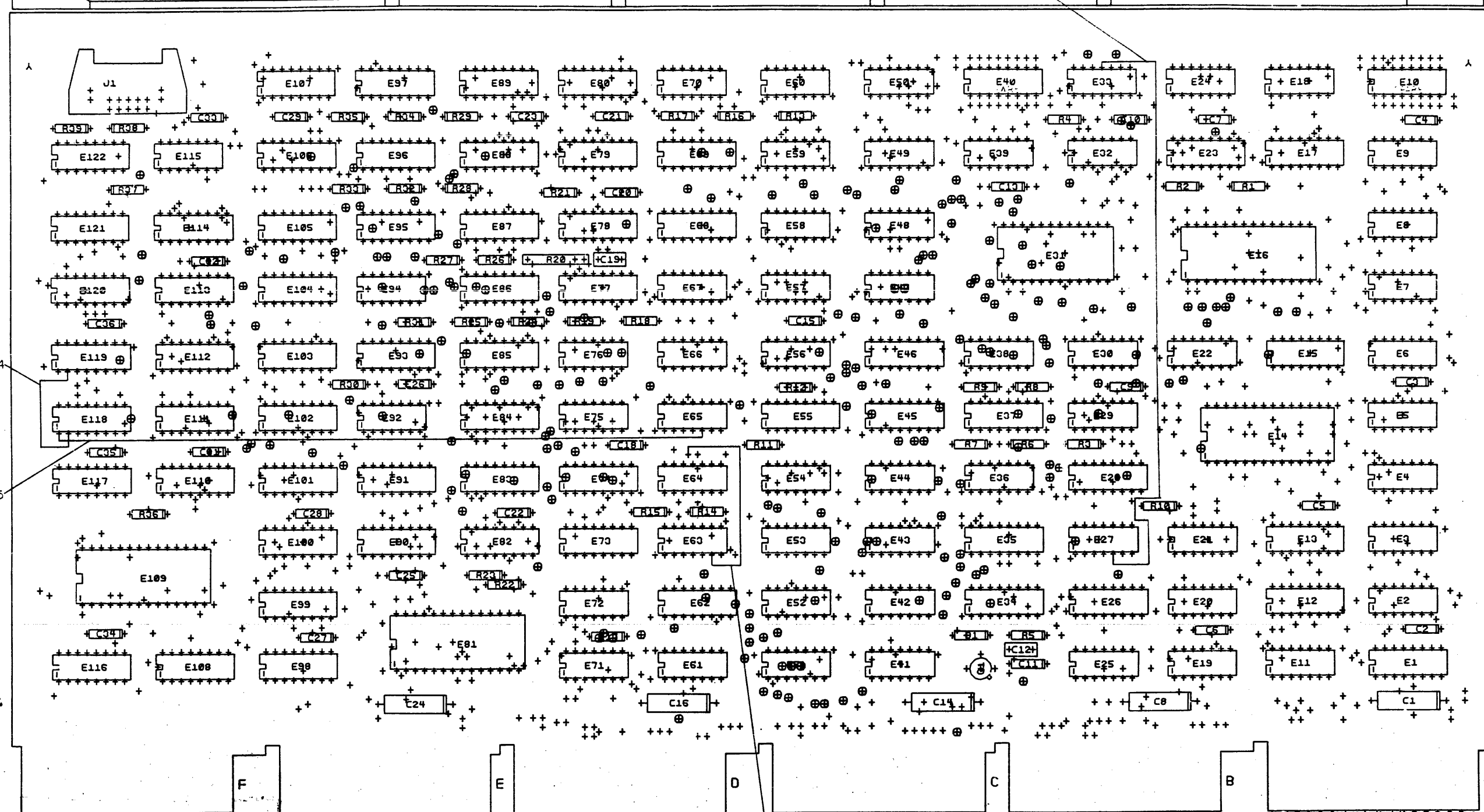
ENGINEERING SPECIFICATION					CONTINUATION SHEET
TITLE KT8A FIELD INSTALLATION AND ACCEPTANCE PROCEDURE					
4. The KT8-A system made up of two B88C boxes with a KK8F in one box and memories located in both boxes as shown below:					
SLOT	OPTION	DEFINITION	SIZE	CODE	NUMBER
			A	SP	KT8A-3
1	KK8F	TERMINATOR, M8320			
2	-----	ANY I/O INTERFACE			
3	-----	ANY I/O INTERFACE			
4	M9020	KT8A TERMINATOR, LOCATE IN SLOT "E" OF OMNIBUS MEMORY CONFIGURED FROM THIS POINT TOWARD CPU			
5	-----				
6	-----				
7	-----				
8	-----				
9	-----				
10	-----				
11	MEMORY	LAST MEMORY ELEMENT IN THIS B88C			
12	-----	ANY I/O INTERFACES			
13	-----				
14	-----				
15	-----				
16	-----				
17	-----				
18	-----				
19	-----				
20	BC08H-3	OMNIBUS EXPANDER CABLES			
		(TOP B88C)			
		(BOTTOM B88C)			
1	BC08H-3	OMNIBUS EXPANDER CABLES			
2	DKC8A	OPTION ONE (M8316), IF REQUIRED			
3	KM8-AC	OPTION TWO (M8317B or YC), IF REQUIRED			
4	KT8-A	MEMORY MANAGEMENT OPTION, M8416			
5	-----	MEMORY CONFIGURED FROM THIS POINT TOWARD THE CPU			
6	-----				
7	-----				
8	-----				
9	-----				
10	-----				
11	-----				
12	-----				
13	-----				
14	-----				
15	-----				
16	-----				
17	-----				
18	KK8F	DMA AND I/O INTERFACES CONFIGURED FROM THIS POINT TOWARD MEMORY			
19	KK8F	CPU, M8310			
20	KK8F	CPU, M8300			

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DMA 108

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COMPONENT SIDE VIEW

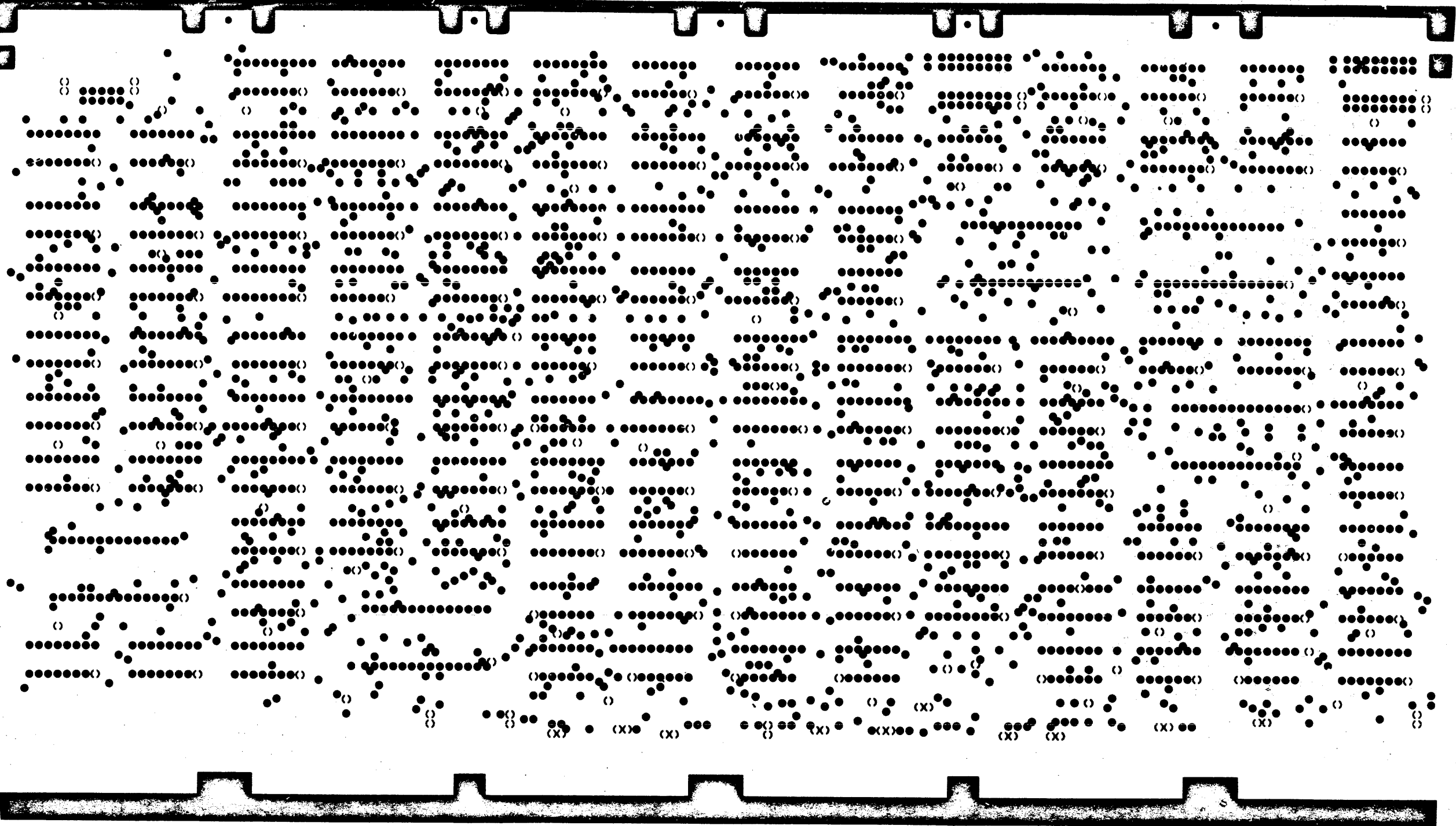


NOTES: MODULE REWORK AT RELEASE
ETCH CUT-SIDE 2, 0-1 BETWEEN
DA2 & 2 FEEDTHRU NEAR C16

CHK	CHANGE NO	REV	DATE	BY	APP
JA	M8416-0001	C	10/1/77	SKLIEN	

ETCH REV.	REV
P.C. DESIGN DATA BASE REV.	C

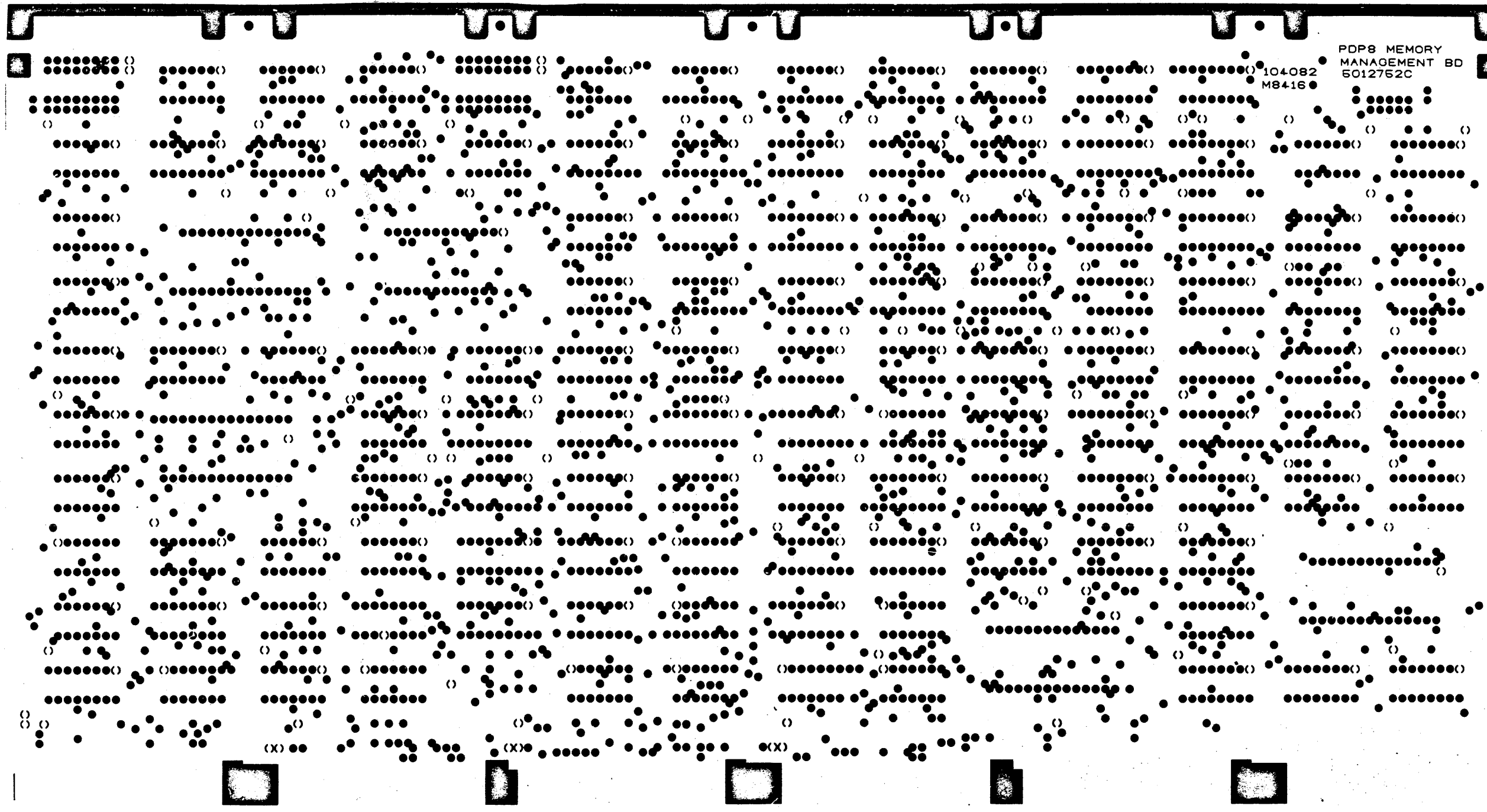
SIGNATURES	DATE	digital
DRN. <i>Jack Kiley</i>	10/1/77	TITLE PDP8 MEMORY MANAGEMENT BOARD
CHK'D. <i>Jack Kiley</i>	10/3/77	
ENG. <i>P. R. Ryan</i>	12/1/77	
PROJ. ENG. <i>P. R. Ryan</i>	12/1/77	
PROD. <i>P. R. Ryan</i>	12/1/77	
SCALE 2/1	SIZE CODE	NUMBER
SHT. 1 OF 6	D UA M8416-0-0	REV D
NEXT HIGHER ASSY. KM88		



VIEWED FROM SIDE 1

REVISIONS													TITLE		DATE		NUMBER		TAX
CHK	CHARACTER	NO.											MANAGEMENT SYSTEMS		DUA		MS416-0-0		D
											SCALE		SHEET 3 OF 6						

6

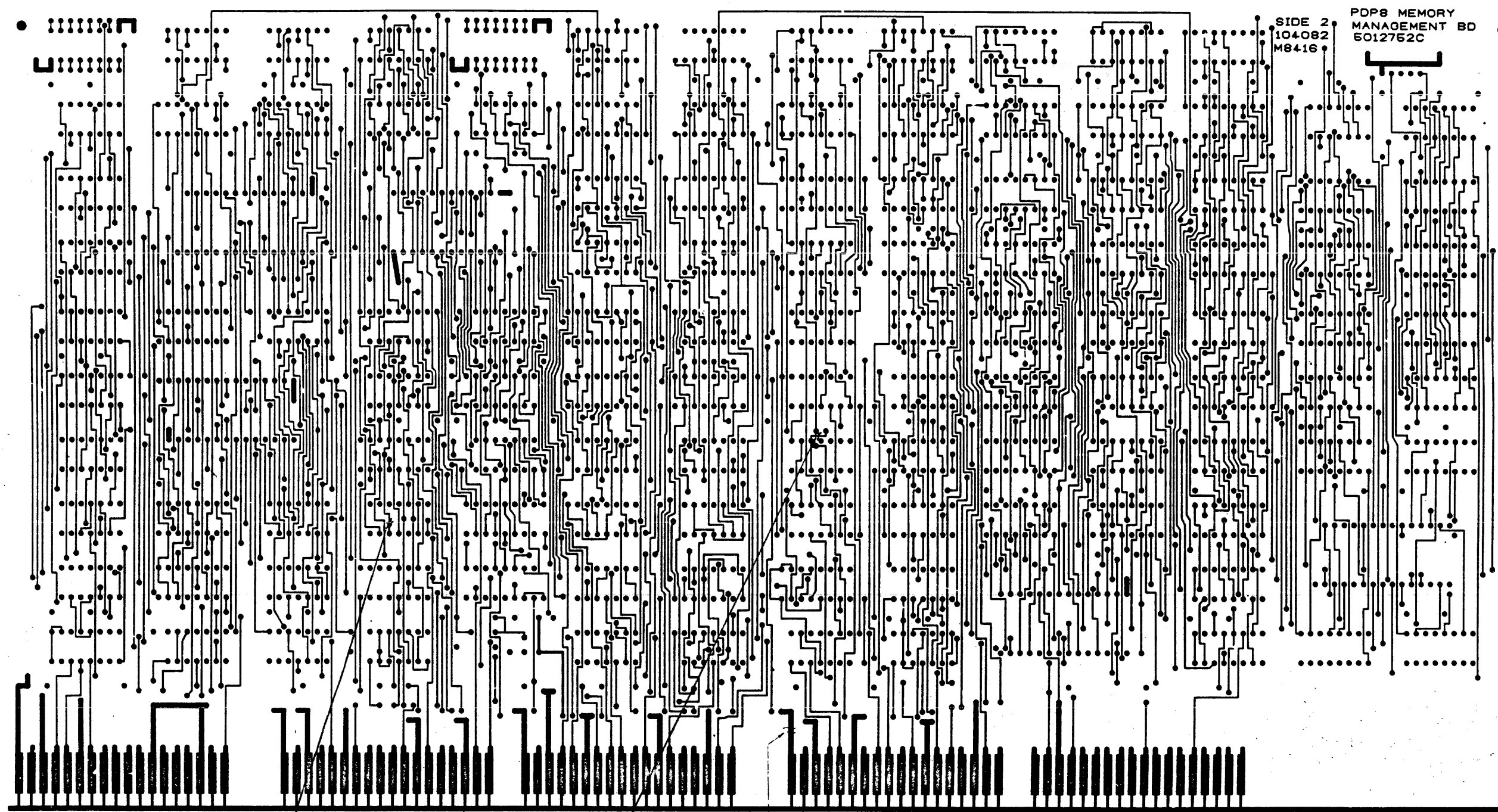


PDP8 MEMORY
MANAGEMENT BOARD
5012752C

104082
M8416

VIEWED FROM SIDE 2

REV. 000	DATE	BY	APP. BY	DESCRIPTION	TITLE	DATE	SCALE	SHEET	OF	DATE	NO.	REV.
					PDP8 MEMORY MANAGEMENT BOARD			4	6			



SIDE 2
104082
M8416

PDP8 MEMORY
MANAGEMENT BD
6012752C

VIEWED FROM SIDE 2

2-2

1-3

0-1

REV. SHEET		
CHA.	CHANGE NO.	REV.

TITLE	PDP8 MEMORY MANAGEMENT BOARD	SIZE/EDGE	NUMBER	REV.
SCALE	1:1	SHEET	5 OF 6	DUA M8416 -C-C D

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REWORK INSTRUCTIONS

E.C.O. #1

ETCH CUTS SIDE 1

1-1: BETWEEN E118 PIN1 & E118 PIN2

1-2: BETWEEN E119 PIN1 & E119 PIN2

ETCH CUTS SIDE 2

1-3: BETWEEN E64 PIN10 & FEEDTHRU ABOVE AND BETWEEN E64 PINS 11,12

WIRE ADDS SIDE 1

1-4: FROM E118 PIN2 TO E119 PIN2

1-5: FROM E118 PIN1 TO E65 PIN 5-7

1-6: FROM E63 PIN6 TO FEED THRU THAT WAS CUT FROM E64-10

E.C.O. #2:

ETCH CUTS SIDE 2

2-1: E 27-5

WIRE ADDS SIDE 1

2-2: E 33-11 TO E 27-5

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MEMORY MANAGEMENT BOARD	SIZE CODE	DUA	NUMBER	M8416-0-C	REV.	D
SCALE	1:1	SHEET	6 OF 6	DIST.			

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
1	D-MD-5012752-0-0	5012752-00	M8416	1	
2		1000016-00	100.0 MMF 100V 5%200PPM DM15S	2	C12,C19
3		1005306-00	6.0MFD 35V 10% S.TANT	5	C1,C8,C14,C16,C24
4		1012784-00	.047 MFD 50V -20+80 CER	28	C2-C7,C9,C10,C11,C13,C15,C17,C18,C20-C23, C25-C29,C31-C36
5		1110603-00	1N 5711 TR=100PS PIV= 70V HMB	1	D1
6		1209941-05	HEADER.100 10POS RT ANGLE	1	J1
7		1210711-02	HANDLE,MODULE,HEX	1	
8		1300316-00	470 1/4W 5% CC	1	R5
9		1300365-00	1 K 1/4W 5% CC	25	R1,R2,R3,R6-R10,R12,R14,R16,R17,R22-R29, R31-R35
10		1300479-00	10 K 1/4W 5% CC	12	R4,R11,R13,R15,R18,R19,R21,R30,R36-R39
11		1302941-00	14.7 K 1/4W 1% PN550-F 100PPM	1	R20
12		1501999-00	DEC3009A NPN 300MW SI 20 25 M	1	Q1
13		1909701-00	74154 1 OF 16,RINA	1	E31
14		1909705-00	DEC 8881 NAND GATE-QUAD 2TN 0	4	E4,E8,E19,E42
15		1909934-00	8266 MUX 1 OF 2 (QUAD)	2	E69,E79
16		1910393-00	DEC 7384 OR GATE-QUAD 2TN,UTI	4	E52,E53,E72,E75
17		1910537-00	74811 AND GATE-TRIPLE 3INP	1	E27
18		1910544-00	74874 FF-D DUAL,EDGE TRIGG	3	E32,E63,E65
19		1911330-01	74173N FF-D QUAD,TRI-STATE	11	E1,F62,E73,E90,E97,E98,E99,E110,E119,E121, E122
20		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,U	7	E3,E11,E25,E41,E51,F61,E71
21		1911527-00	8097 BUFFER GATE-HEX 2INP	10	E37,E55,E83,E84,E91,E100,E101,E104,E105, E107
22		1911579-00	8641 TRANSCEIVER,BUS,QUA	3	E12,E13,E45
23		1911676-00	748139 DECODER-DUAL TWO-INP	1	E120
24		1912388-00	74802 NOR GATE-QUAD 2IN,PO	1	E64
25		1912649-00	LS75 LATCH 4BIT,BISTABE	1	E26
26		1912661-00	748189 MEMORY READ/WRITE	1	E82

REVISION HISTORY			SECTION 1 OF 1	RESP,ENG, R. REGAN	DATE: 27-OCT-77	DIGITAL				
ENG	ECO NUMBER	REV	SECTION VARIATION INDEX	MADE BY: TED KELLEY	DATE: 29-AUG-77	PARTS LIST				
J.A	100001	C				POP8 MEMORY MANAGEMENT BOARD				
A.T	M8416-ML002	D	1.00							
			2.							
			3.							
			4.							
			5.							
			6.							
			7.	DSN,ENG, R. REGAN	DATE: 14-NOV-77					
			8.			SIZE	CODE	DOCUMENT NUMBER	REV	
			9.							
			10.	PROD, MELVIN SCHENKE	DATE: 14-NOV-77	K	PL	M8416-0-DBP	D	
			11.							
			12.	ASSEMBLY NUMBER: D-UA-M8416-0-0		PART NUMBER: M8416		EDIT: 36		

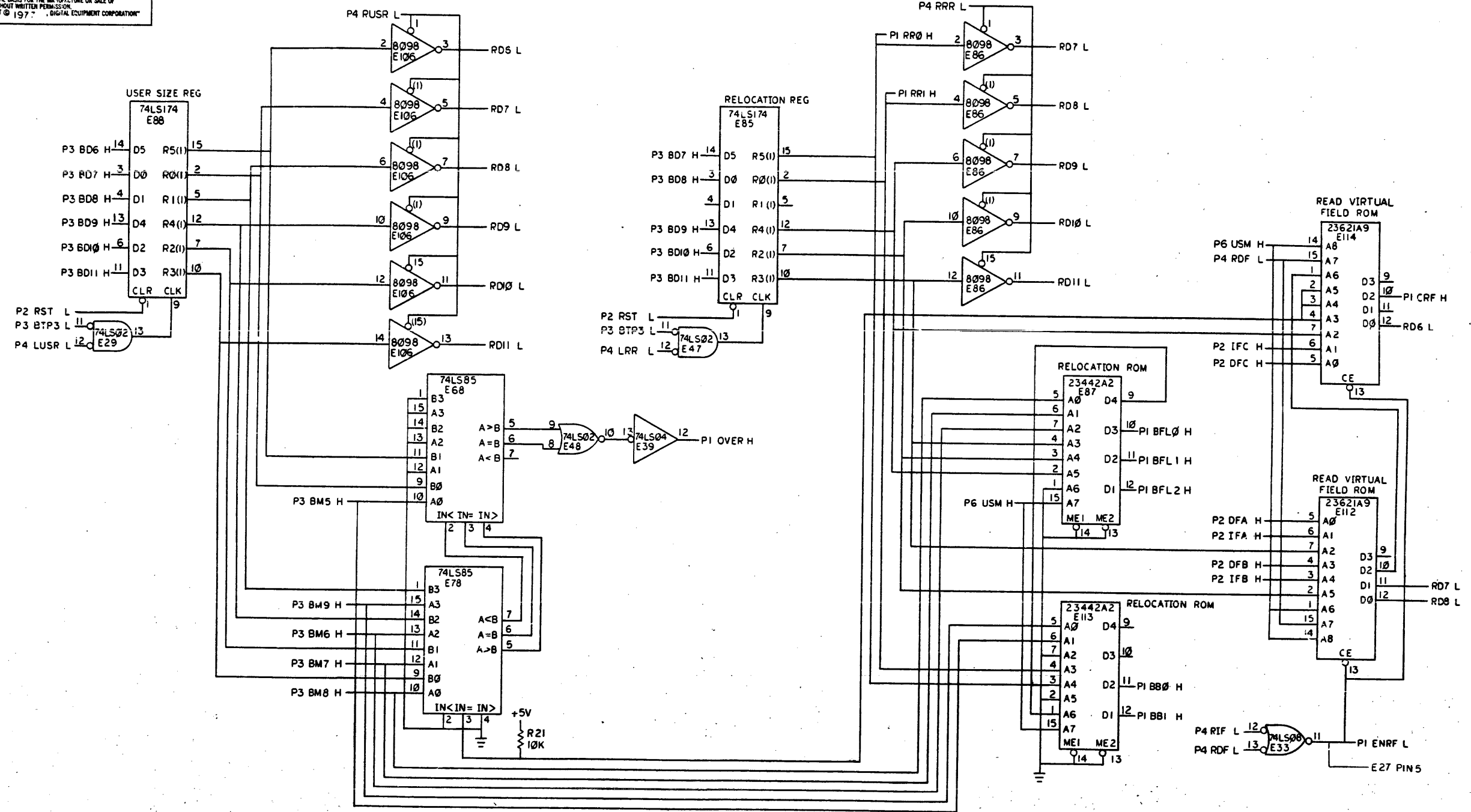
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	REFERENCE DESIGNATOR
27	27		1912697-00	1.8174 FF-D HEX W/CLEAR	5	E15,E17,E85,E88,E103
28	28		1912796-00	74148 EXCODER,PRIORITY,R T	1	E89
29	29		1912799-00	LS00 NAND-GATE-QUAD 2IN,P	8	E6,E18,E50,E54,E57,E66,E70,E94
30	30		1912800-00	LS01 NAND-GATE-QUAD 2IN,P	1	E20
31	31		1912801-00	LS02 NOR-GATE-QUAD 2IN	3	E29,E47,E48
32	32		1912803-00	LS04 INVERTER GATE-HEX 1I	8	E2,E5,E7,E22,E39,E44,E58,E115
33	33		1912805-00	LS08 AND GATE-QUAD 2IN,PO	2	E33,E67
34	34		1912807-00	LS10 NAND GATE-TRIPLE 3IN	5	E21,E24,E49,E56,E92
35	35		1912810-00	LS20 NAND GATE-DUAL 4IN	3	E9,E36,E43
36	36		1912815-00	LS30 NAND GATE-SINGLE 8IN	1	E30
37	37		1912817-00	LS37 NAND GATE-QUAD 2IN,P	1	E38
38	38		1912819-00	LS42 DECODER,BCD-DECIMAL	1	E34
39	39		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	3	E59,E60,E76
40	40		1912828-00	LS85 COMPARATOR,4BIT MAGN	2	E68,E78
41	41		1912853-00	LS175 FF-D QUAD	8	E35,E46,E93,E102,E108,E110,E116,E117
42	42		1912858-00	LS221 ONE SHOT-DUAL,SCHMIT	1	E77
43	43		1912859-00	LS258 MUX 1 OF 2 (DUAL),	1	E23
44	44		1914087-00	8098 BUFFER GATE-HEX 2IN,	4	E86,E95,E06,E106
45	45		23211A1-00	A1-07	1	E80
46	46		23440A2-00	A2-05	1	E28
47	47		23441A2-00	A2-05	1	E74
48	48		23442A2-00	A2-05	2	E87,E113
49	49		23621A9-00	A9-01	3	E111,E112,E114
50	50		23007C6-00	C6-01	1	E14
51	51		23008C6-00	C6-01	1	E16
52	52		23009C6-00	C6-01	1	E81
53	53		23010C6-00	C6-01	1	E109
54	54		9000024-01	EYFLET, ROLLED FLANGE, .121 OD X	12	
55	55		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

56 NOTE: LINE 18: PARTS SUBSTITUTION LIST
 57 NOTE: ITEM #18 1910544-01 74S74 FF-D DUAL (60 VERSION) QTY 3
 58 NOTE: ITEM #18 1910950-00 74S74 FF-D DUAL (45 VERSION) QTY 3

D	I	G	I	T	A	L	TITLE	SECTION	1	OF	1	SIZE	CODE	DOCUMENT NUMBER	REV
							PUPB MEMORY MANAGEMENT BOARD					K	PL	M8416-0-DBP	D

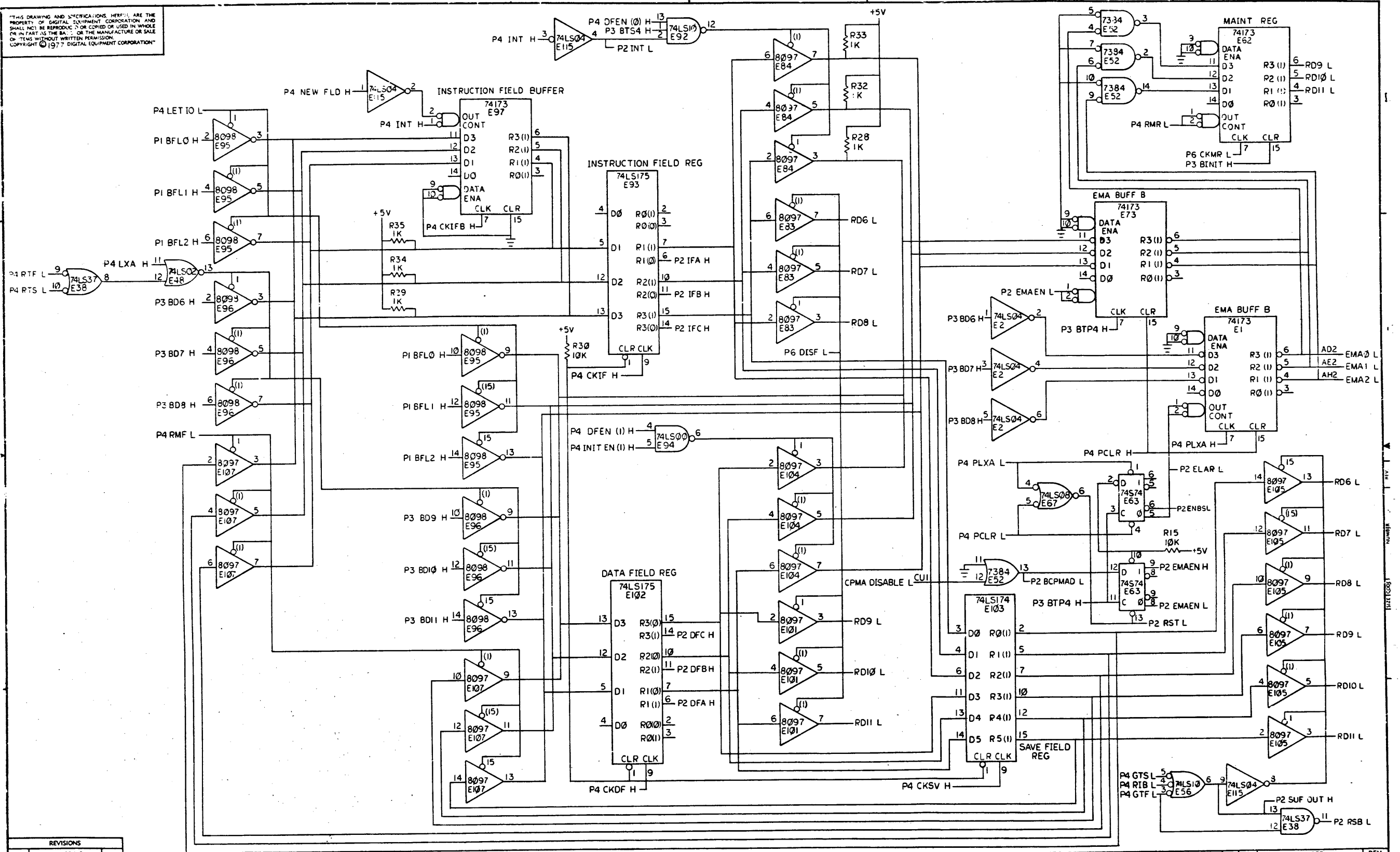
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REV.	CHG.	NO.	DATE	BY	CHK'D
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2	SK	10000			
3	SK	10000			
4	SK	10000			
5	SK	10000			
6	SK	10000			
7	SK	10000			
8	SK	10000			
9	SK	10000			
10	SK	10000			

DRN. YES	11-4-77	FIRST USED ON	KT8-A	digital
CHK'D	12/1/77	TITLE	PDP8 MEMORY MANAGEMENT BOARD	
ENG.	12-7-77	PROD. ENG.	12-7-77	
PROJ. ENG.	12-7-77	PROD.	12-7-77	
NEXT HIGHER ASSY. (PI)				
D-UA-M8416-0-0		SIZE CODE	NUMBER	REV.
SCALE		D CS	M8416-0-1	D
SHEET	1 OF 7	DIST.		

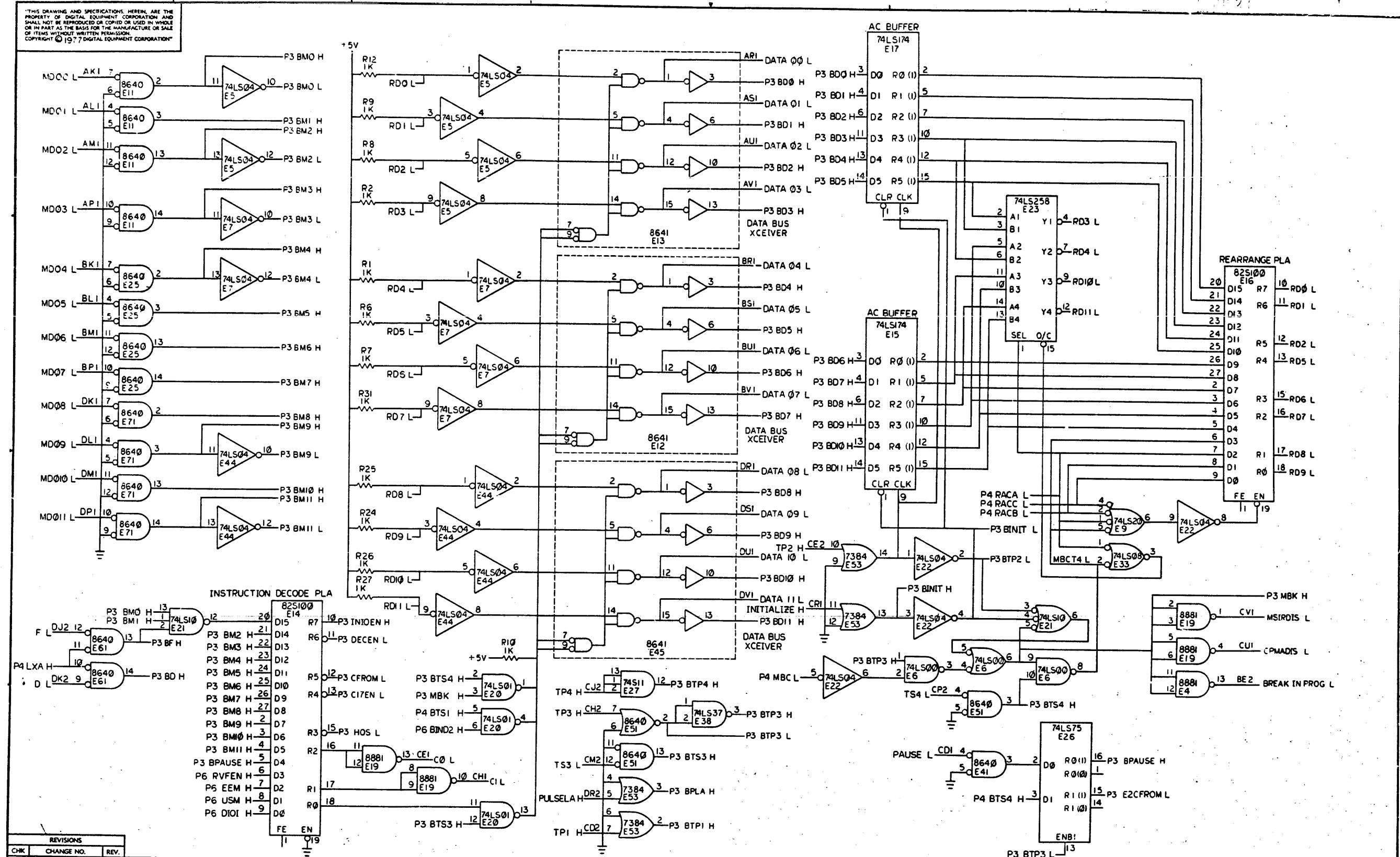
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MEMORY MANAGEMENT BOARD (P2)	SIZE CODE	DCS	NUMBER	M8416-0-1	REV.	D
SCALE	SHEET 2 OF 7		DIST.				

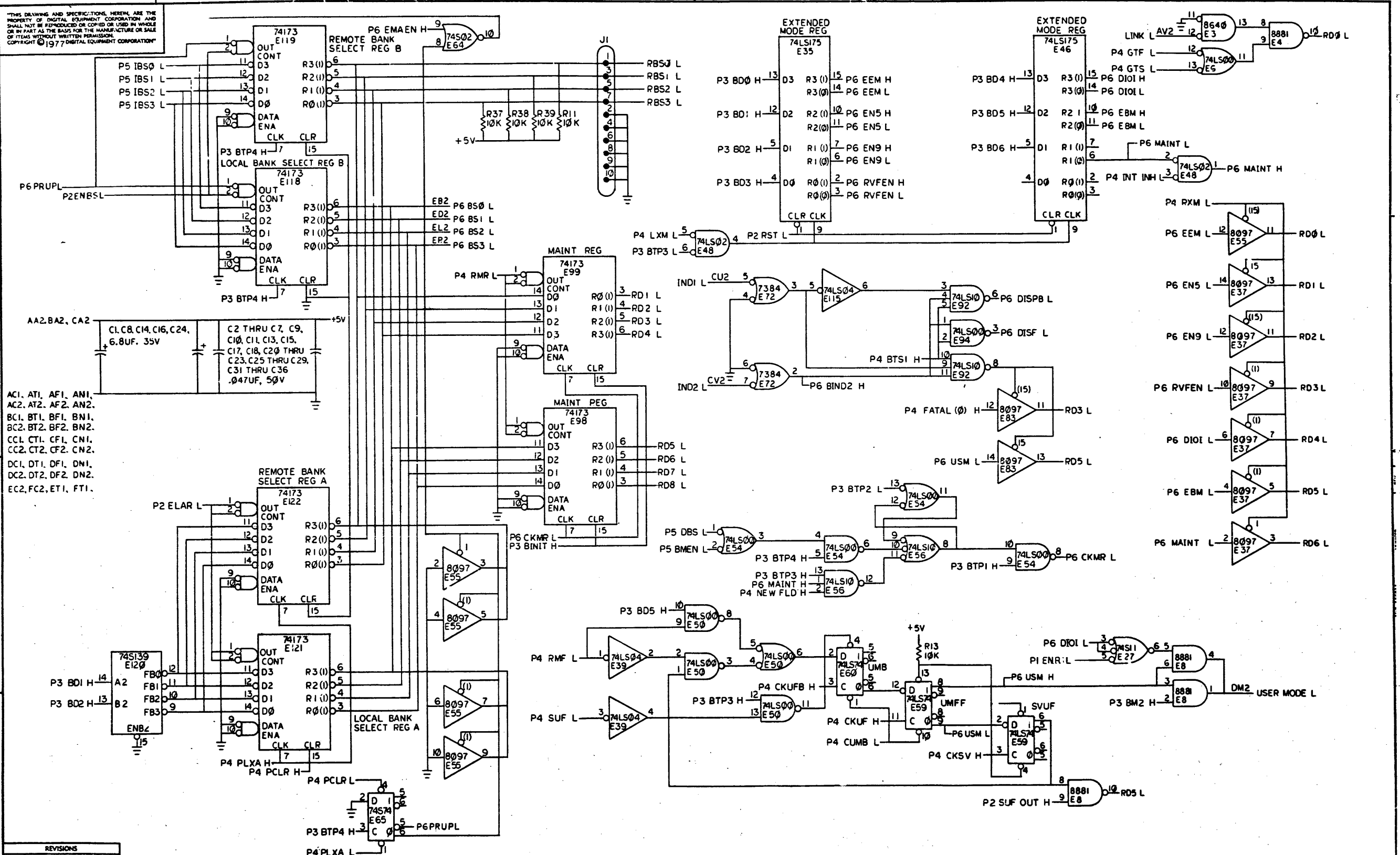
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MEMORY MANAGEMENT BOARD (P3)	SIZE CODE	D/CS	NUMBER	M8416-0-1	REV.	0
SCALE	SHEET 3 OF 7		DIST.				

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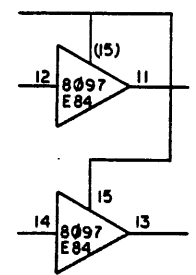
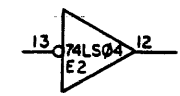
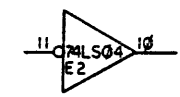
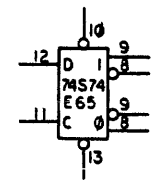
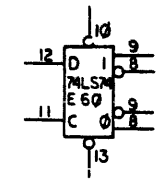
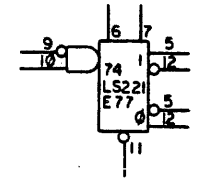
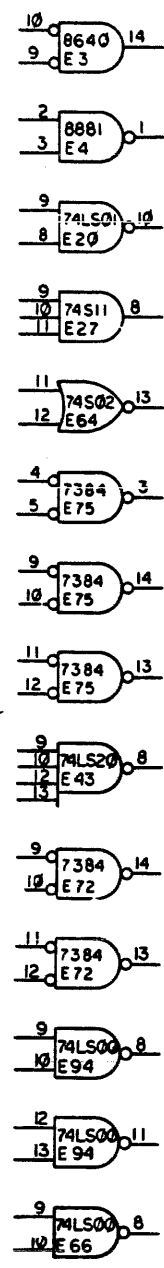
- AC1, AT1, AF1, AN1, AC2, AT2, AF2, AN2.
- BC1, BT1, BF1, BN1, BC2, BT2, BF2, BN2.
- CC1, CT1, CF1, CN1, CC2, CT2, CF2, CN2.
- DC1, DT1, DF1, DN1, DC2, DT2, DF2, DN2.
- EC2, FC2, ET1, FT1.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MEMORY MANAGEMENT BOARD (P6)	SIZE CODE	D CS	NUMBER	M8416-0-1	REV.	D
SCALE	SHEET 6 OF 7		DIST.				

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SPARES



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MEMORY MANAGEMENT BOARD	SIZE CODE	D CS	NUMBER	M8416-0-1	REV.	D
SCALE		SHEET	7 OF 7	DRGT.			

8

7

6

5

4

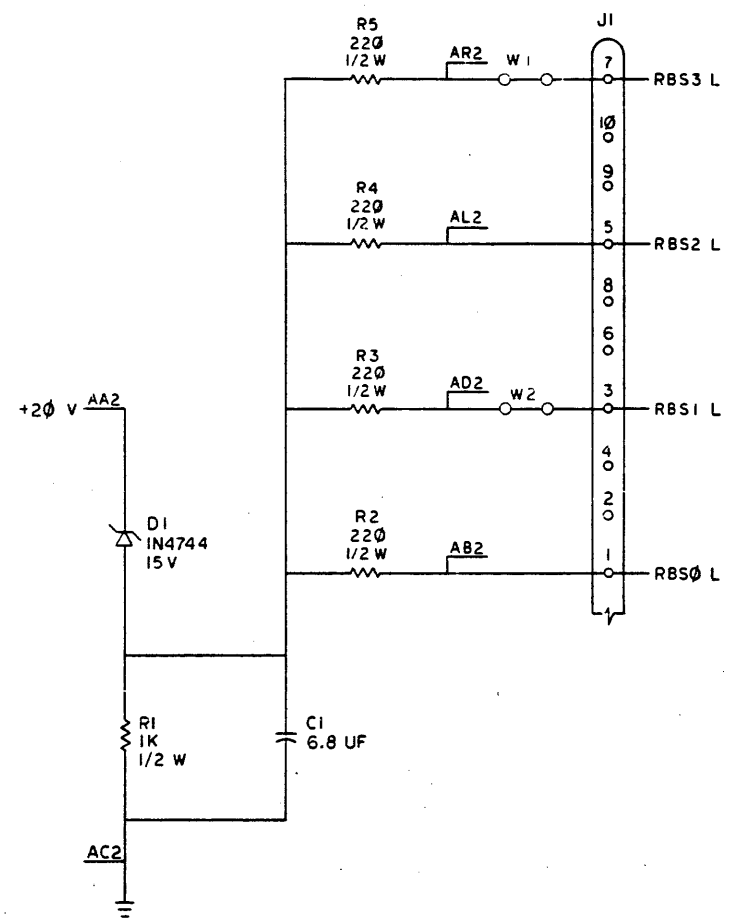
3

2

1

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1-0-0206W
 DCS
 2



REV.	
CHANGE NO.	
CHK	

DRN.	11-9-77	FIRST USED ON	KT8-A
CHKD.	12-7-77	TITLE	KT8-A TERMINATOR
ENG.	12-7-77		
PROJ. ENG.	12-7-77		
PROD.	12-7-77		
NEXT HIGHER ASSY.			
D-UA-M9020-0-0		SIZE CODE	D CS
SCALE		NUMBER	M9020-0-1
SHEET 1 OF 1		DIST.	

M9020-01
 DCS

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**DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS**

ENGINEERING SPECIFICATION

DATE 14 JUNE 77

TITLE MS8C Field Installation and Acceptance Procedure

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

ENG <i>Bill Egan</i> 8/24/77	APPD <i>J. Stearns</i> 8/25/77	SIZE A	CODE SP	NUMBER MS8-C-3	REV
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DEC 16-(392)-1079A-R873
DRA 107A

SHEET 1 OF 3

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE MS8C Field Installation and Acceptance Procedure

I. General

This procedure defines the performance standards required of the MS8CA and MS8CB Memories. The MS8C can be installed in any PDP8A series computers. The Memory may be an add-on to PDP8E systems if a BA8C expander is used.

II. Inspection Add-on

After removing the M8417 from the packing material, inspect the module for the following:

1. Loose or broken components.
2. Inventory against shipping lists.

III. Installation

1. Switch/Field Selection

- MS8-CA (1) One switch (only) must be off.
MS8-CB (2) Two switch (only) must be off.

Set-up switch as defined in the following table. Switches off are the enable.

	Address	Bank	Field
S1-1	0-16K	0	0-3
S1-2	16-32K	0	4-7
*S1-3	32-48K	1	0-3
*S1-4	48-64K	1	4-7
*S1-5	64-80K	2	0-3
*S1-6	80-96K	2	4-7
*S1-7	96-112K	3	0-3
*S1-8	112-128K	3	4-7

*NOTE: KT8A must be installed for these settings. Refer to the KT8A Installation and Acceptance Procedures for KT8A systems acceptance.

2. Install

Ensure power to PDP8A is off.
Insert the M8417 into slot 4 of the PDP8A.
If two memories are to be installed, install the second in slot 5.

IV. Acceptance

Perform the acceptance test as indicated in the following table. If problems are encountered, refer to the diagnostic listings for the type of error and for information on how to read the error printouts.

SIZE A	CODE SP	NUMBER MS8-C-3	REV
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DEC FORM NO DEC 16-(381)-1022-N370
DRA 108

SHEET 2 OF 3

TITLE MS8C Field Installation and Acceptance Procedure

Equipment Required:

- 1. 03,04 Console Terminal
- 2. PDP8A with MS8C Memory
- *3. Input device, either paper tape or OS8.
- 4. Diagnostics and listings.

*Programmers console is required to make Switch register settings on the paper tape version of the diagnostic.

<u>Program Name</u>	<u>Maindec #</u>	<u>Accept Time</u>
Extended Memory Address Test	08-DHKMA	30 Minutes
Extended Memory Checkerboard	08-DHKMC	30 Minutes

No Errors are Acceptable.

SIZE A	CODE SP	NUMBER MS8-C-3	REV
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M8417-AA (16K)
 X = SWITCH OPEN OR OFF

	E62-1	E62-2	E62-3	E62-4	E62-5	E62-6	E62-7	E62-8
0-16	X							
16-32		X						
32-48			X					
48-64				X				
64-80					X			
80-96						X		
96-112							X	
112-128								X

M8417-BA (32K)
 X = SWITCH OPEN OR OFF

	E62-1	E62-2	E62-3	E62-4	E62-5	E62-6	E62-7	E62-8
0-32	X	X						
16-48		X	X					
32-64			X	X				
48-80				X	X			
64-96					X	X		
80-112						X	X	
96-128							X	X

- NOTES:
- MODULE DESIGNATION: M8417-AA = M8417-AB, -AC, -AD, -AE, ETC.
 16K MOS MEMORY
 REFERENCE DESIGNATIONS NOT USED:
 E101 E201 E301 E401
 E103 E203 E303 E403
 E105 E205 E305 E405
 E107 E207 E307 E407
 E109 E209 E309 E409
 E111 E211 E311 E411
 E113 E213 E313 E413
 E115 E215 E315 E415
 E117 E217 E317 E417
 E119 E219 E319 E419
 E121 E221 E321 E421
 E123 E223 E323 E423
 - MODULE DESIGNATION: M8417-BA = M8417-BB, -BC, -BD, -BE, ETC.
 32K MOS MEMORY
 - ALL 8837'S HAVE PINS 7 & 9 GROUNDED.
 - TIMING RESISTORS R87 AND R92 MAY BE REMOVED AT MODULE TEST FOR TIMING ADJUSTMENTS.
 - TIMING RESISTORS R88, R100, R140 MAY BE INSTALLED AT MODULE TEST FOR TIMING ADJUSTMENTS.

JUMPER CONFIGURATIONS

JUMPER	M8417-AA (16K)	M8417-BA (32K)
W2	X	X
W3	X	X
W4	X	X
W5	X	X
W10	X	X
W11	X	X

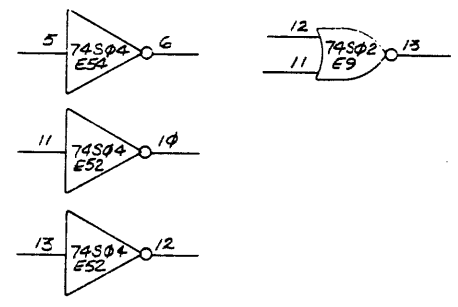
ALL JUMPERS ARE MACHINE INSERTABLE.
 THESE JUMPERS ARE REMOVED:
 W1, W5, W6, W7, W8, W12, W13, W14,
 W15, W16
 X = JUMPER INSTALLATION

IC PIN LOCATIONS

IC TYPE	GND	+5	-5	+12
555	1	8		
7493	10	5		
74LS75	12	5		
8640	1	8		
75107B	7	14	13	
MK4027	16	9	1	8
OTHER 16 PIN IC'S	8	16		
OTHER 14 PIN IC'S	7	14		
75451	4	8		

SPARES

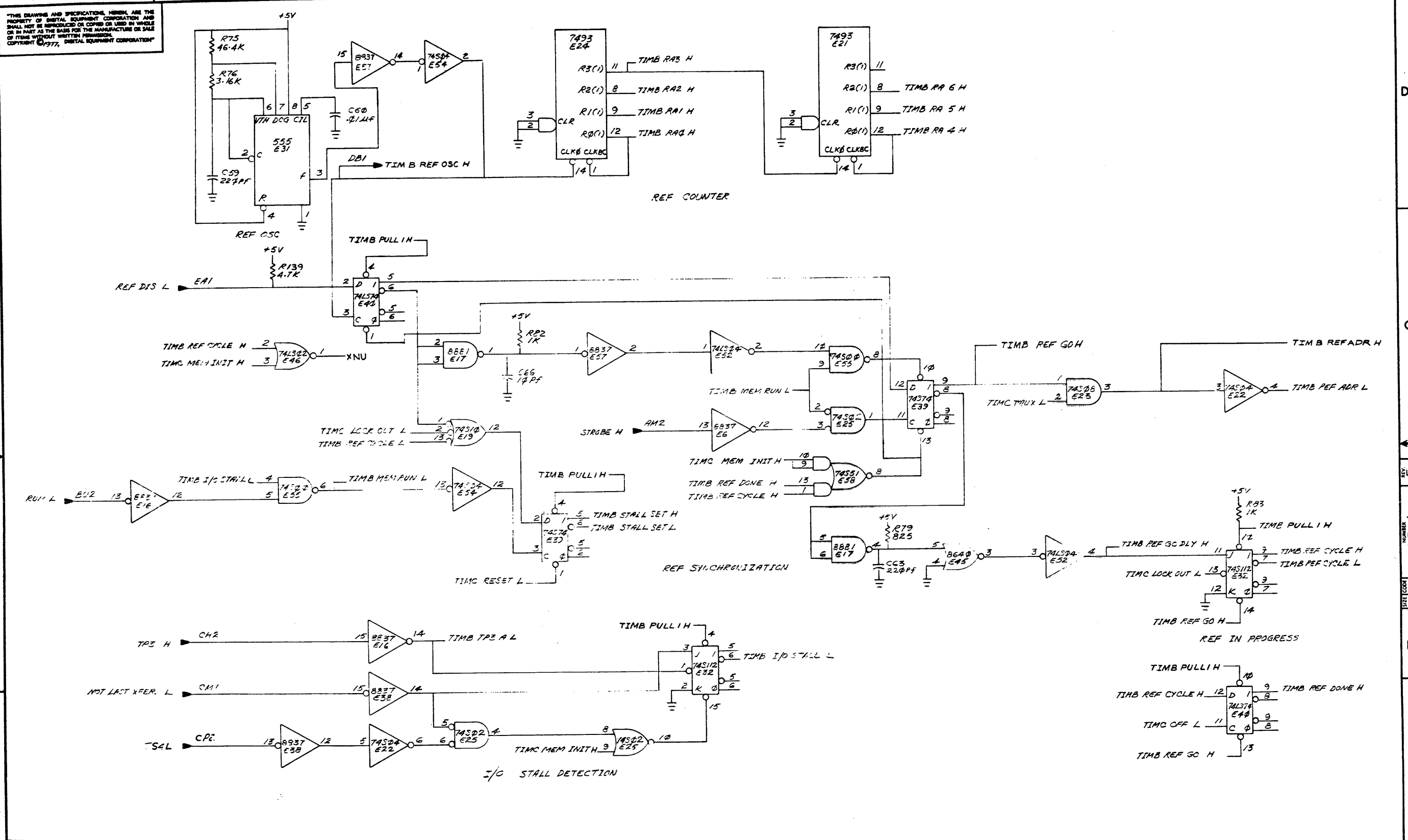
R88	3.16K 1/4W 1% MF	13-03045-00
R100	6040 1/4W 1% MF	13-13155-00
R140	1.21K 1/4W 1% MF	13-02571-00



REV.	CHG.	BY	DATE
B		J. STEGEMAN	11/22/77
C		J. STEGEMAN	12/1/77
D		J. STEGEMAN	12/1/77
E		J. STEGEMAN	12/1/77
F		J. STEGEMAN	12/1/77

DRN. ANGEL COPY 4/25/77	FIRST USED ON MS8-C
CHK'D BY [Signature]	TITLE PDP8 MOS MEMORY
ENG. [Signature]	SCALE NCNE
PROJ. ENG. [Signature]	SHEET 2 OF 14
PROD. [Signature]	DIST. [Signature]
NEXT HIGHER ASSY. B-DD-M8417-0	SIZE CODE D CS
NUMBER M8417-0-1	REV. F

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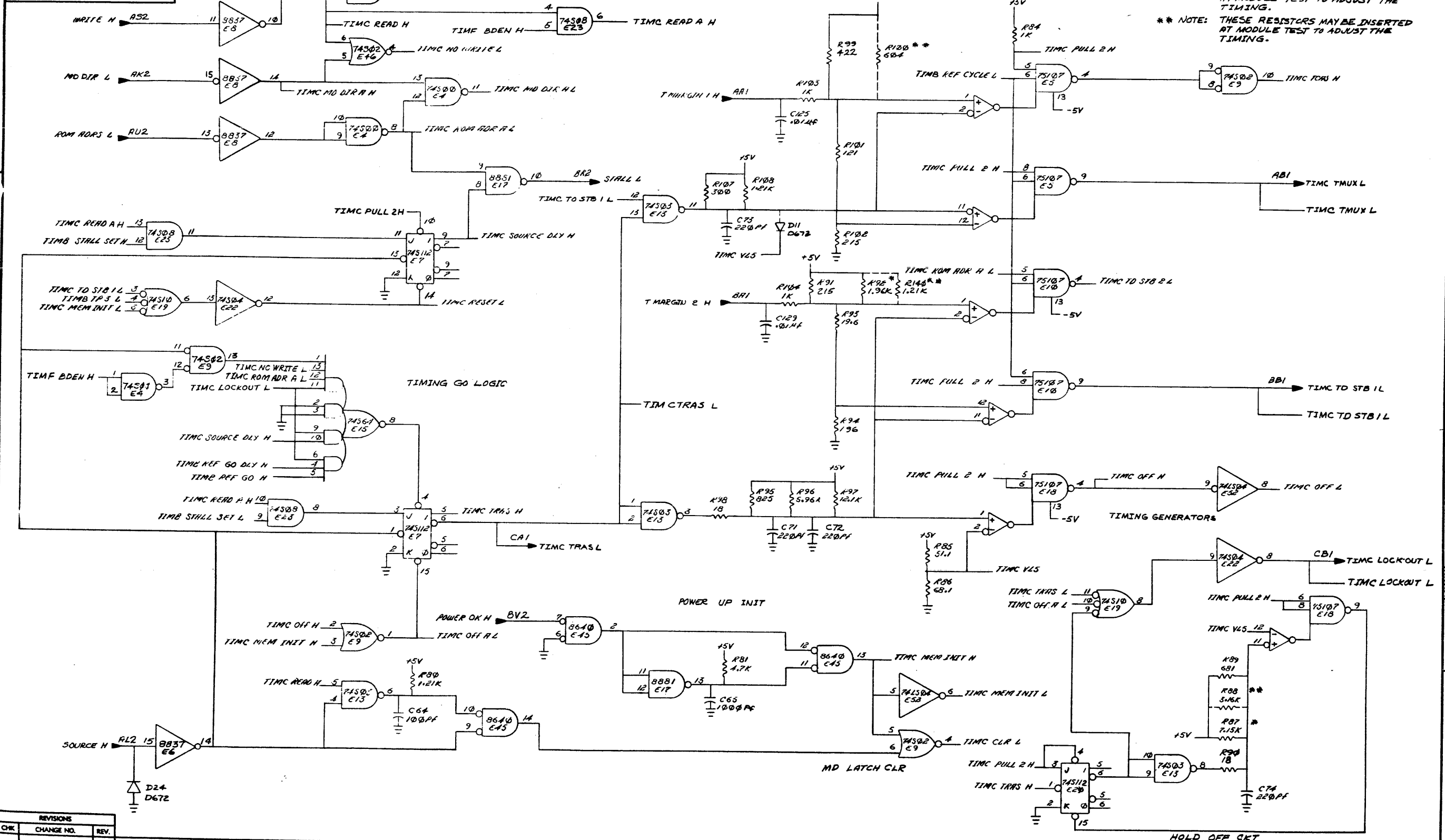


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(TIM B) PDP8 MOS MEMORY	SIZE CODE	D CS	NUMBER	M8417-0-1	REV.	F
SCALE	NONE	SHEET	2 OF 14	DIST.			

REV. F NUMBER M8417-0-1 DCS

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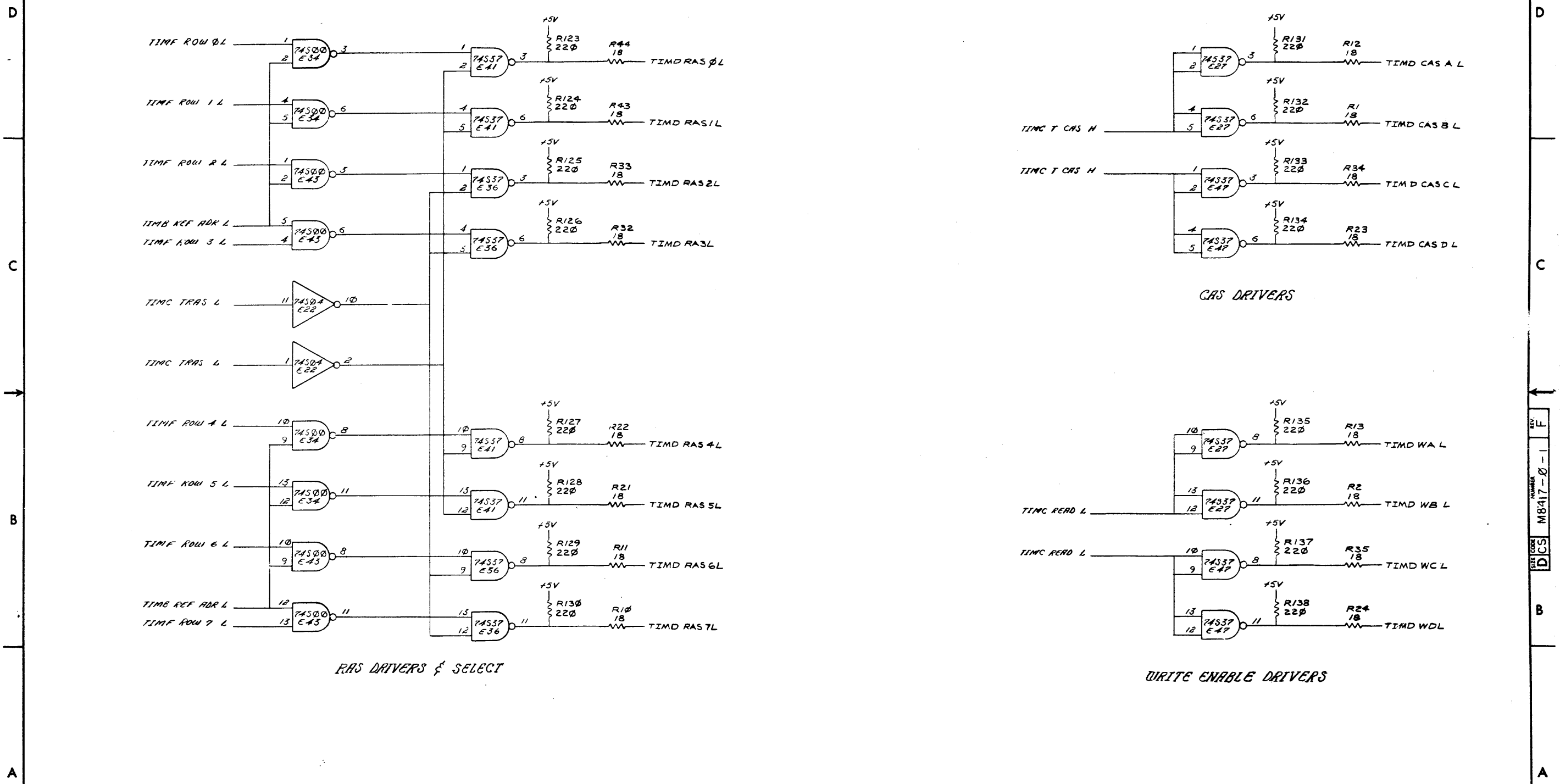


* NOTE: THESE RESISTORS MAY BE REMOVED AT MODULE TEST TO ADJUST THE TIMING.
** NOTE: THESE RESISTORS MAY BE INSERTED AT MODULE TEST TO ADJUST THE TIMING.

REV.	CHANGE NO.	REV.

REV. 1
DCS M8417-0-1

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RAS DRIVERS & SELECT

CAS DRIVERS

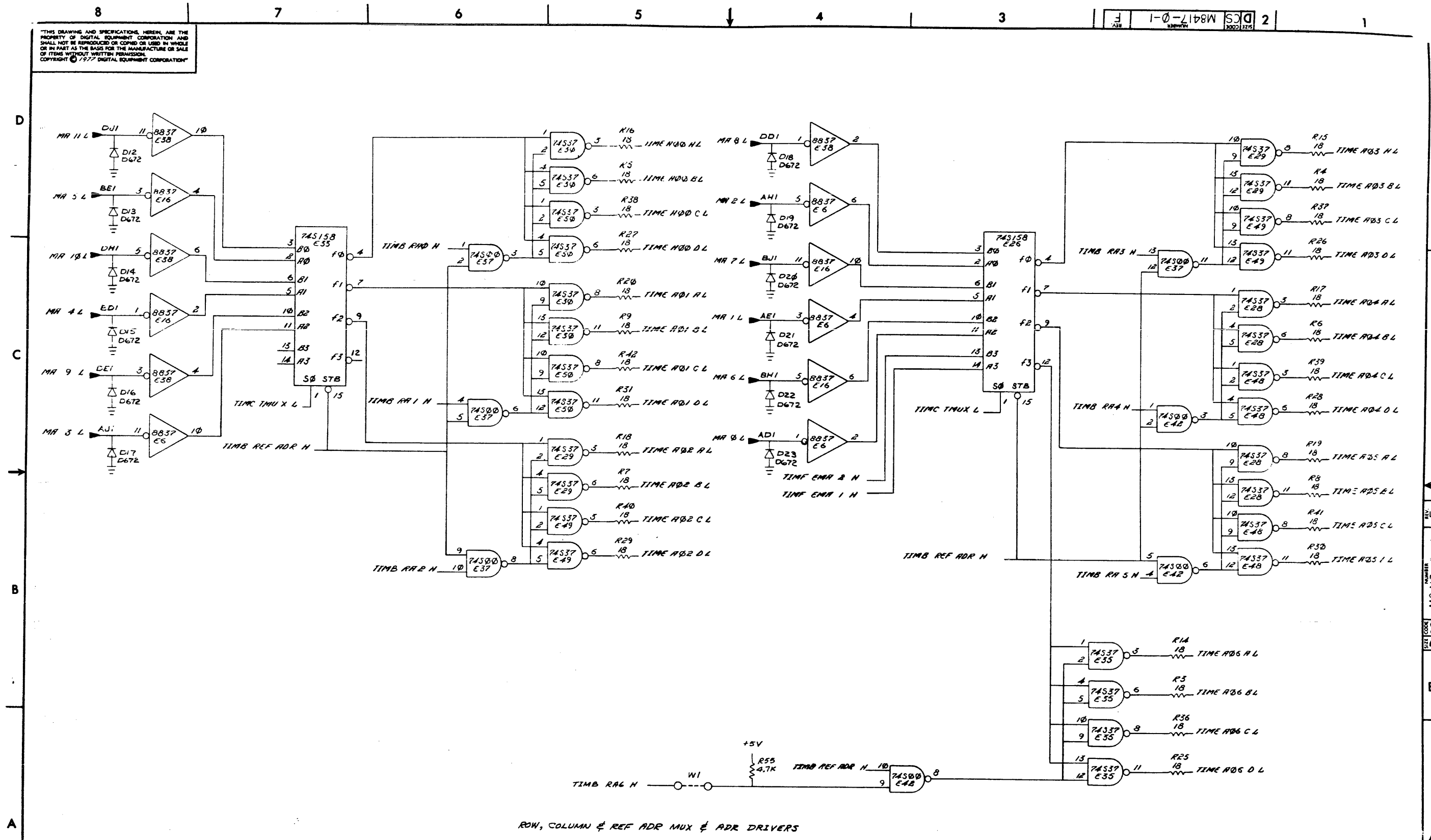
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(TIM D)	SIZE CODE	NUMBER	REV.
PDP8 MOS MEMORY	DCS	M8417-0-1	E	
SCALE	NONE	SHEET	4 OF 14	DIST.

REV. F
 NUMBER M8417-0-1
 SIZE CODE DCS

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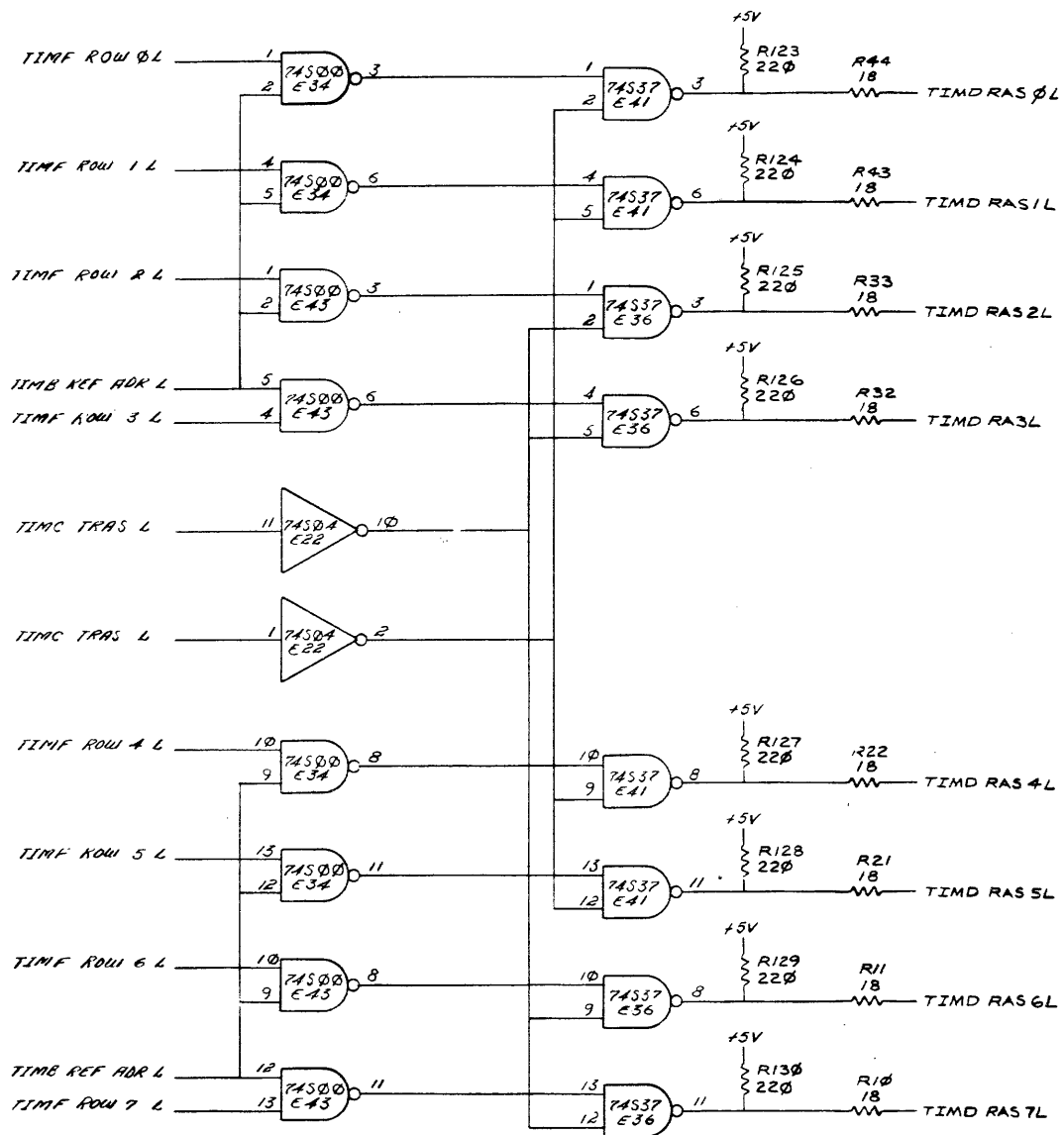


ROW, COLUMN & REF ADR MUX & ADR DRIVERS

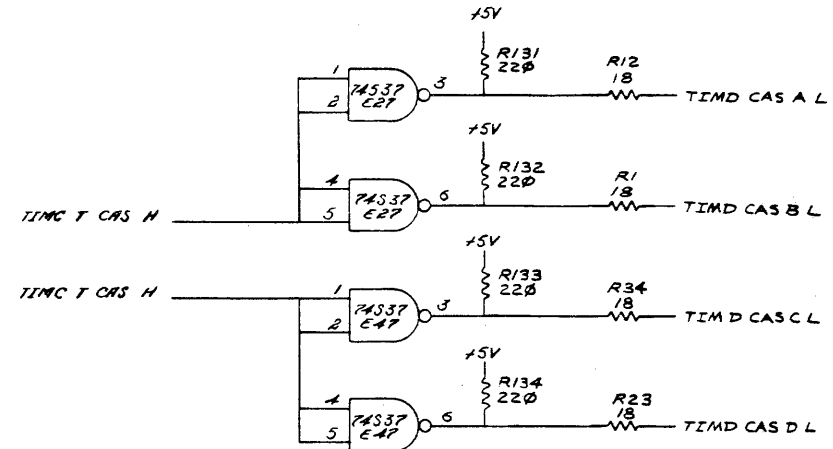
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TITLE	(TIME)	SIZE CODE	NUMBER	REV.
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SCALE	NONE	SHEET 5 OF 14	DIST.	

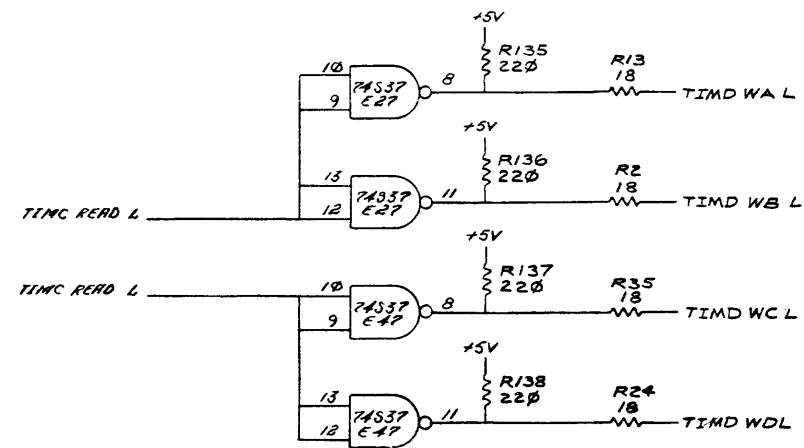
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RAS DRIVERS & SELECT



CAS DRIVERS

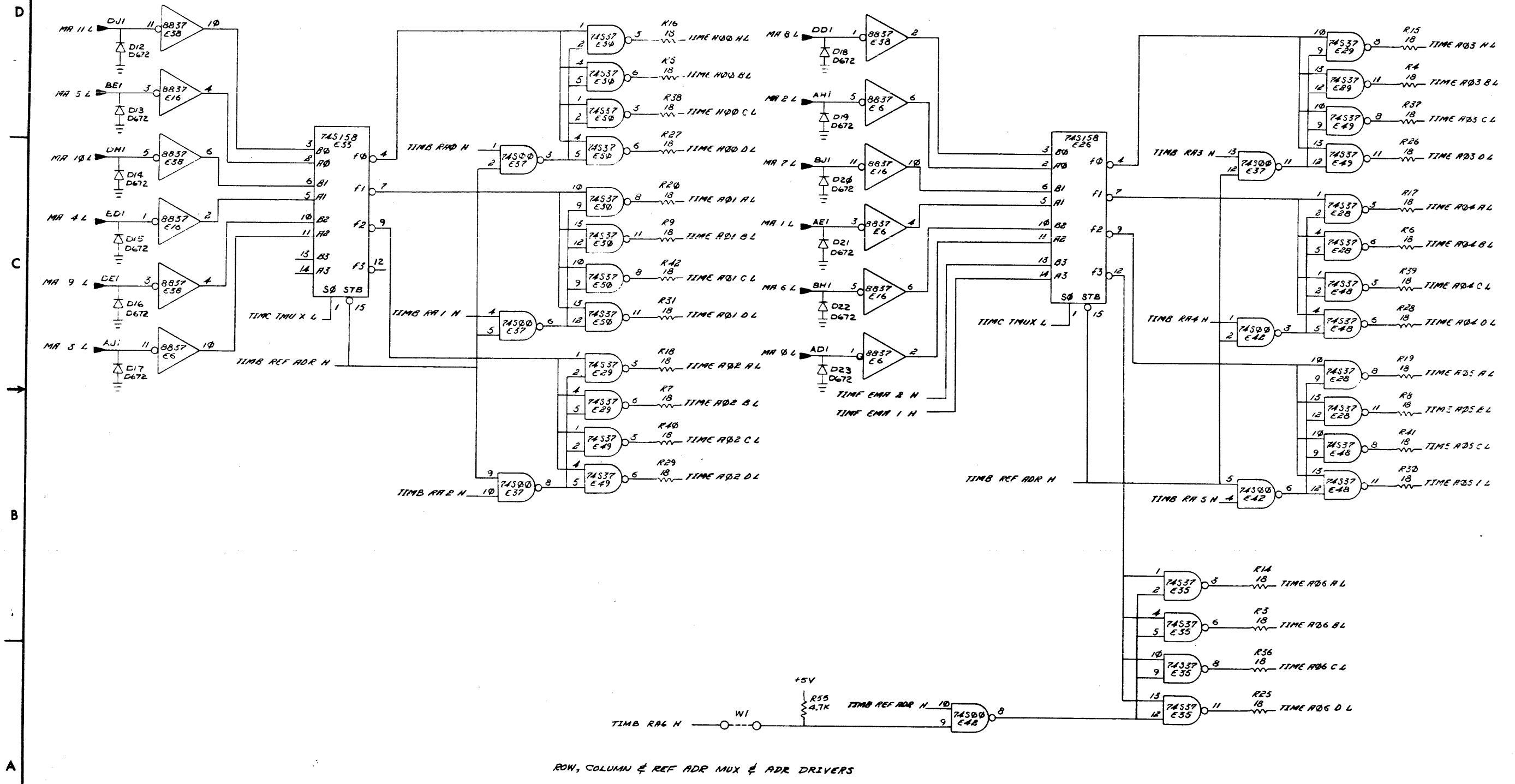


WRITE ENABLE DRIVERS

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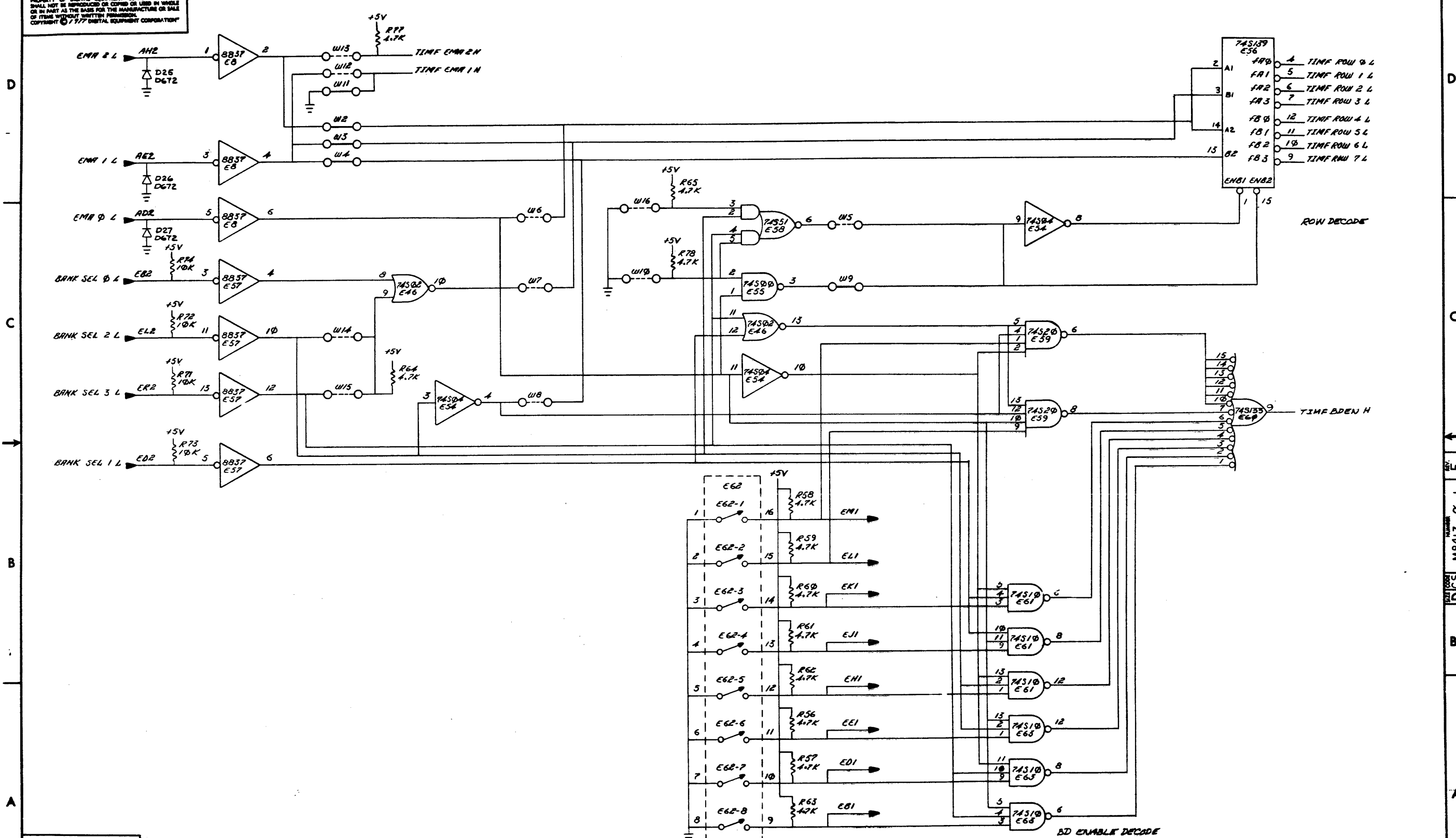
TITLE	(TIM D)	SIZE CODE	NUMBER	REV.
PDP8 MOS MEMORY	DCS	M8417-0-1	E	
SCALE	NONE	SHEET	4 OF 14	DIST.

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REVISIONS		
CHK	CHANGE NO.	REV.

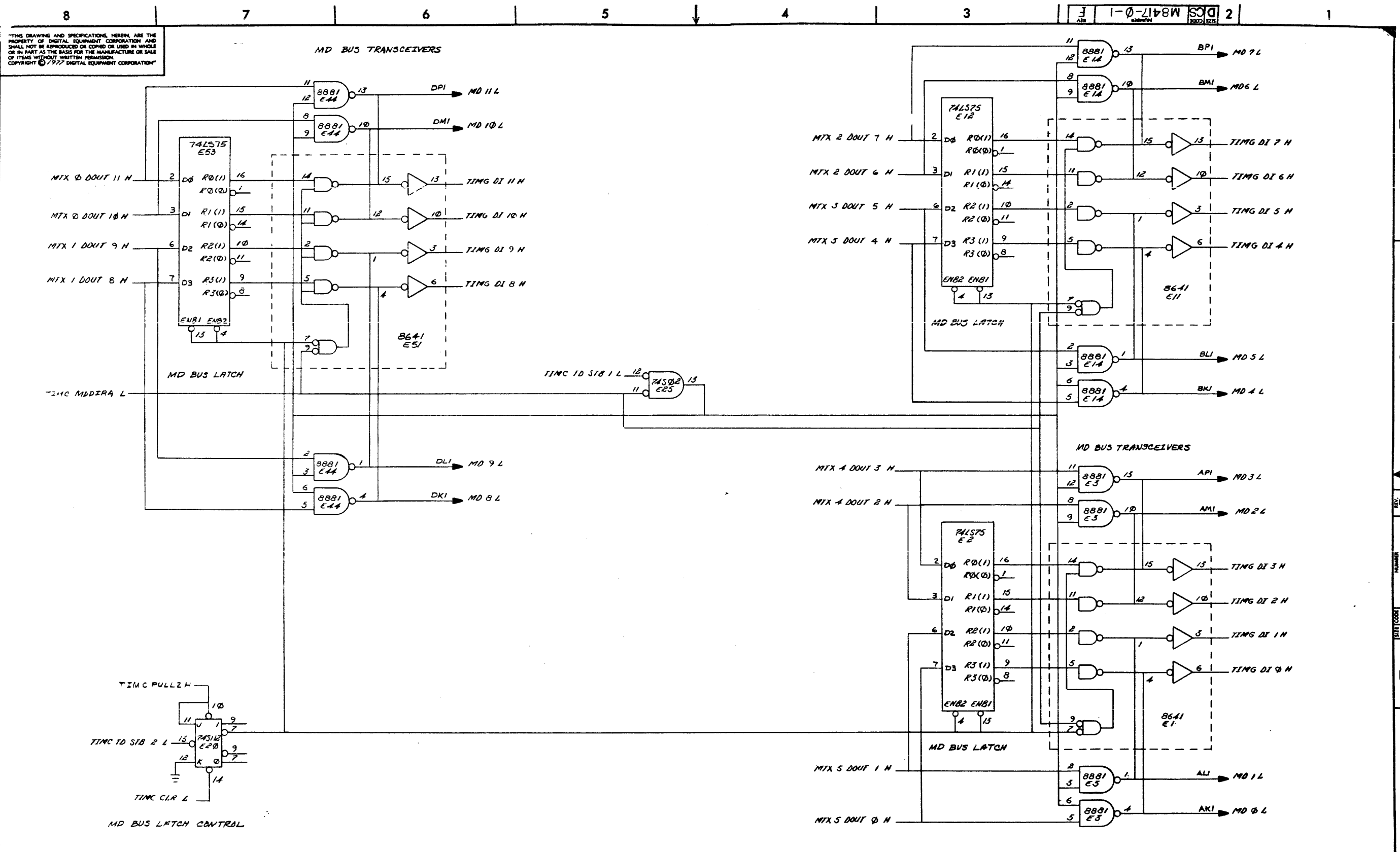
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REVISIONS		
CHK	CHANGE NO.	REV.

REV. E NUMBER M8417-0-1

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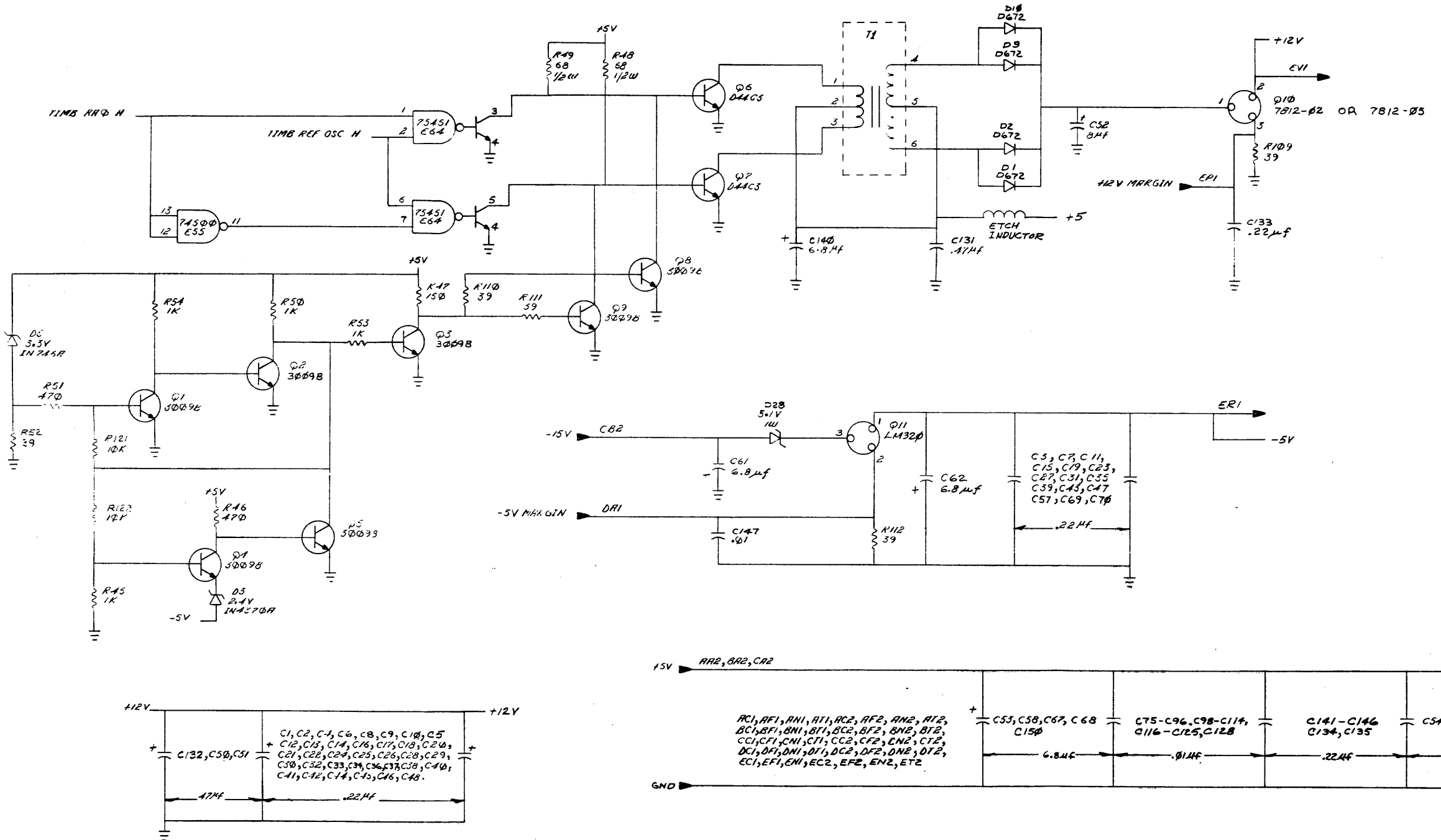


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(TIMG)	SIZE CODE	NUMBER	REV.
PDP8 MOS MEMORY	DCS	M8417-0-1	F.	
SCALE	NONE	SHEET	7 OF 14	DIST.

DCS M8417-0-1

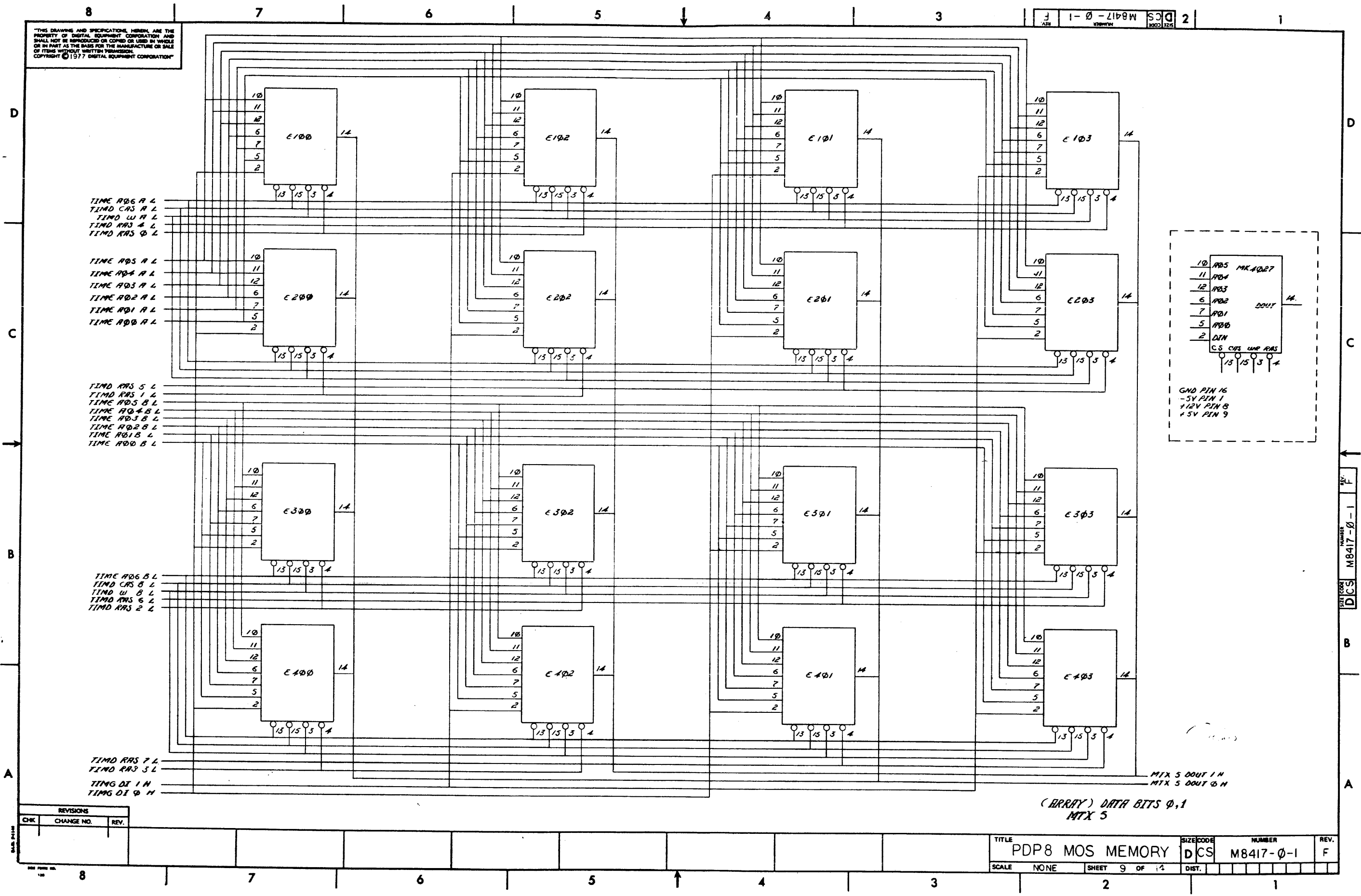
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REVISIONS		
CHK	CHANGE NO.	REV.

SIZE CODE DCS M8417-0-1 F

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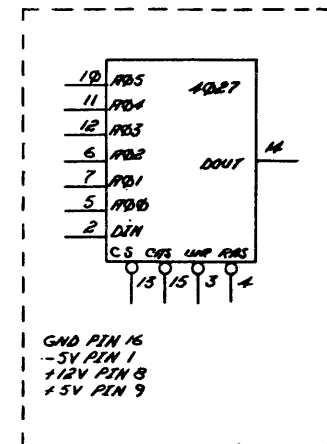
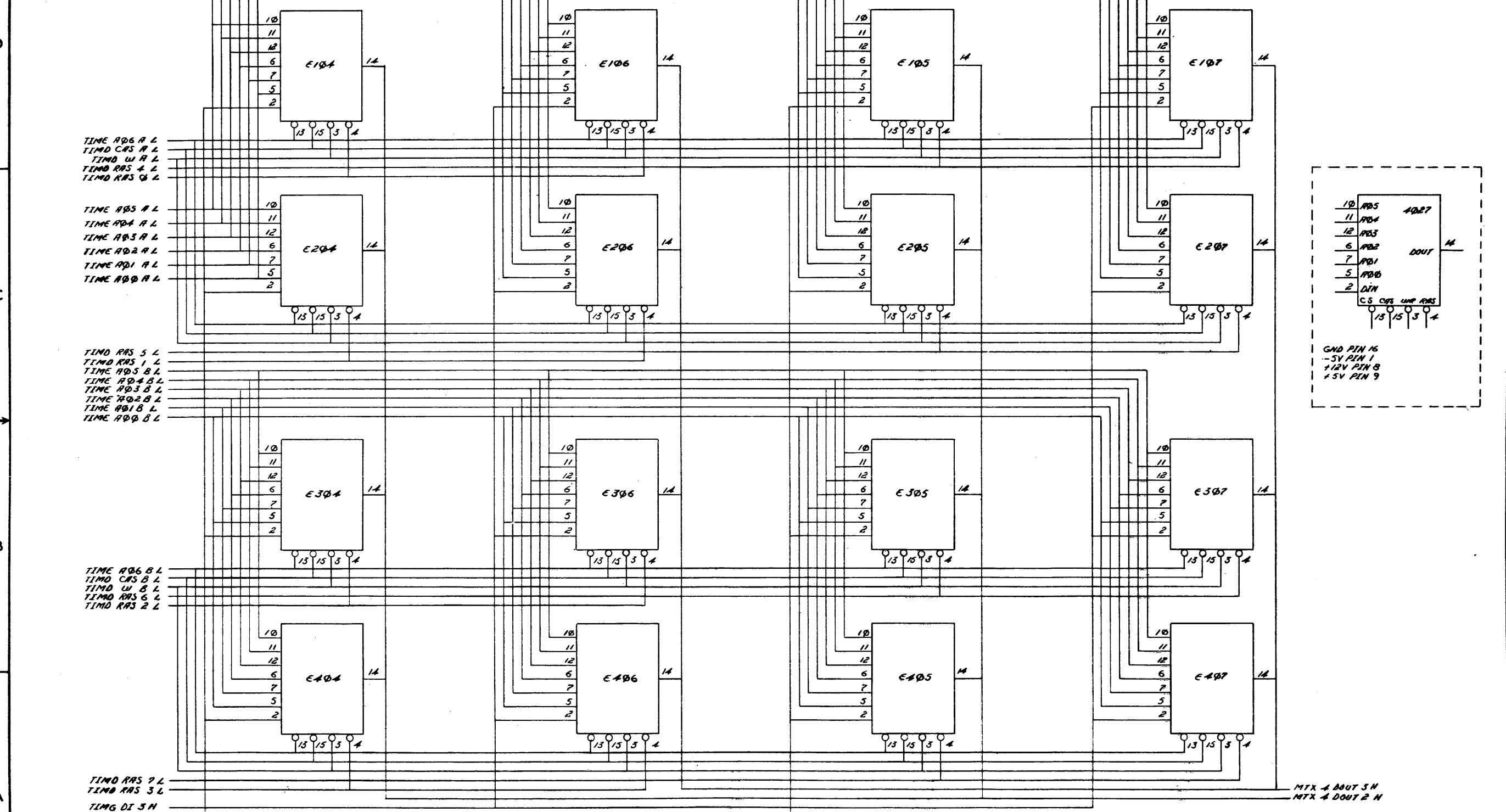
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MOS MEMORY	SIZE CODE	DCS	NUMBER	M8417-0-1	REV.	F
SCALE	NONE	SHEET	9	OF	14	DIST.	

REV. F 1-0-1 M8417-01 DCS NUMBER

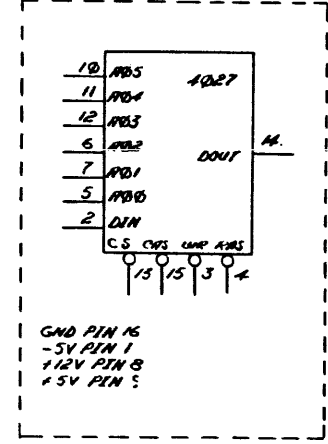
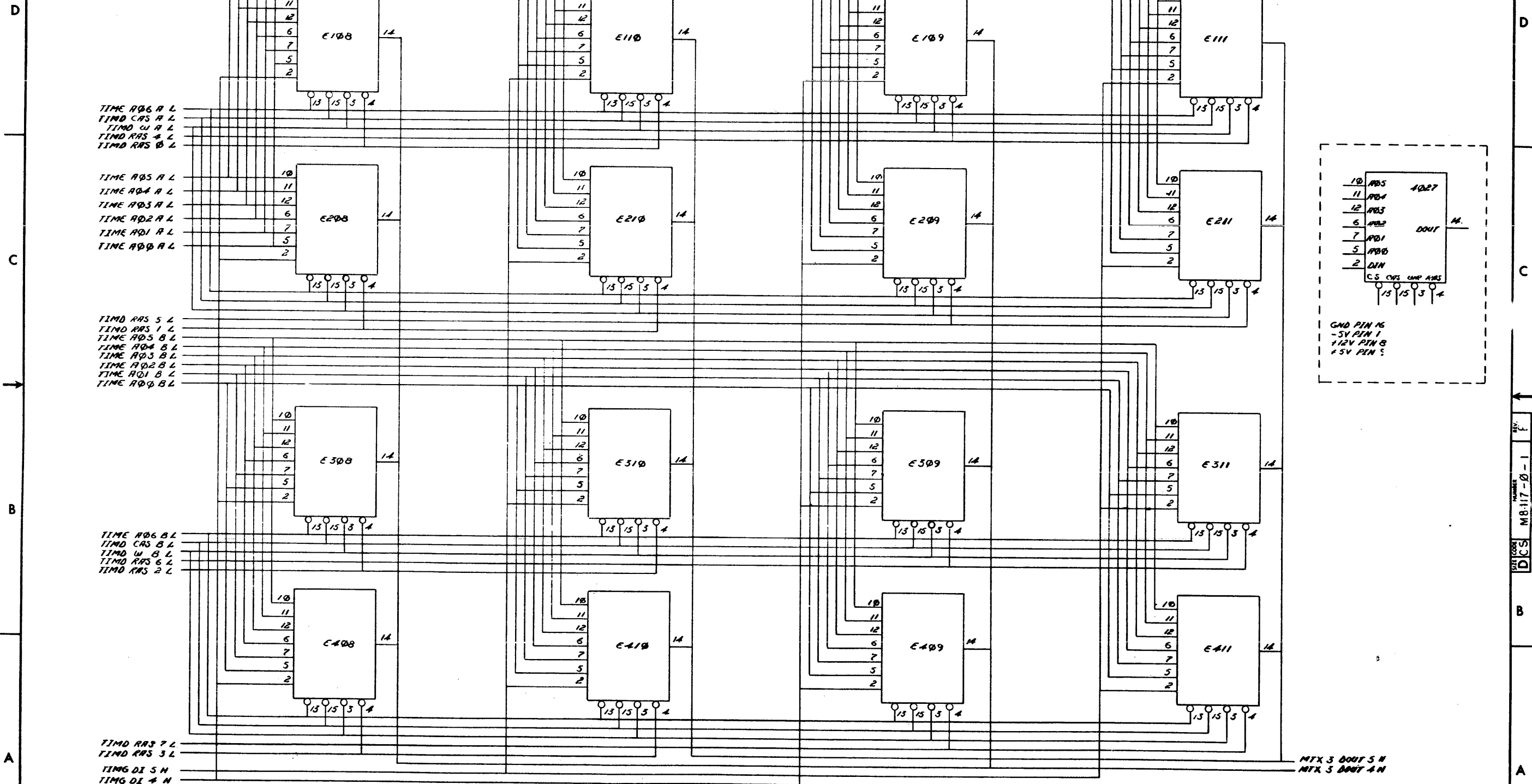
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GND PIN 16
-5V PIN 1
+12V PIN 8
+5V PIN 9

REVISIONS		
CHK	CHANGE NO.	REV.

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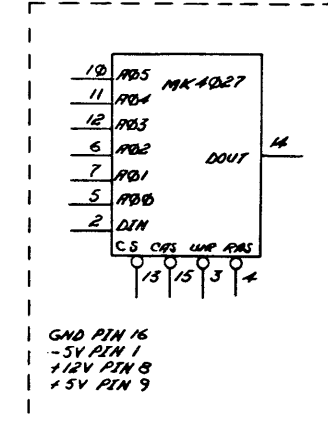
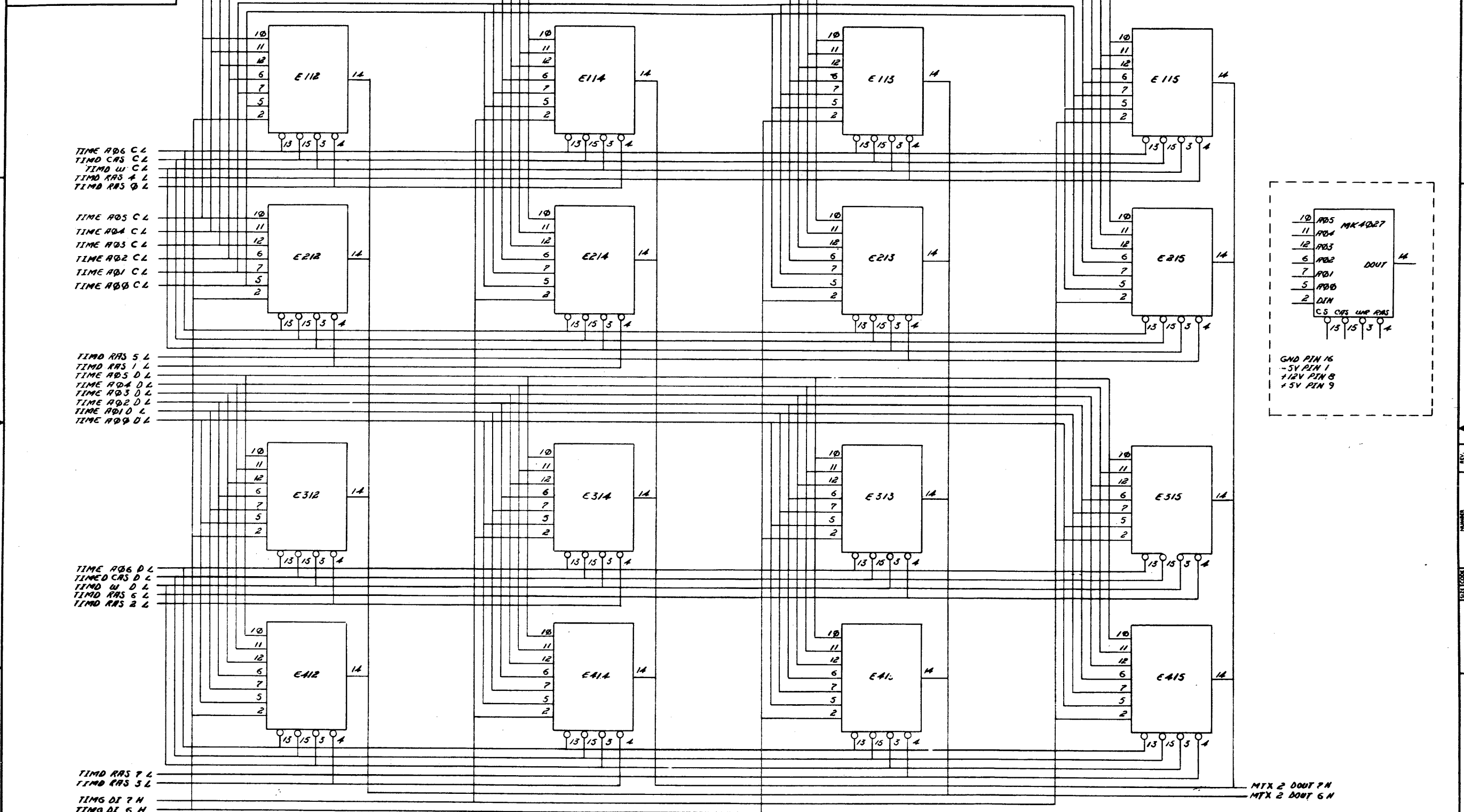
MTX 3 DOUT 5 H
MTX 3 DOUT 4 H

(BARRY) DATA BITS 4, 5
MTX 5

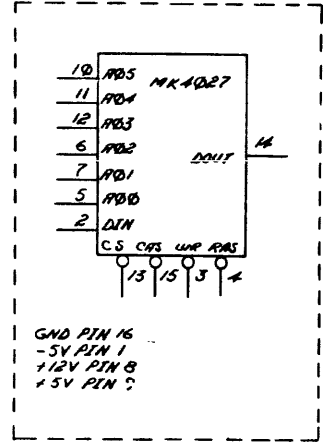
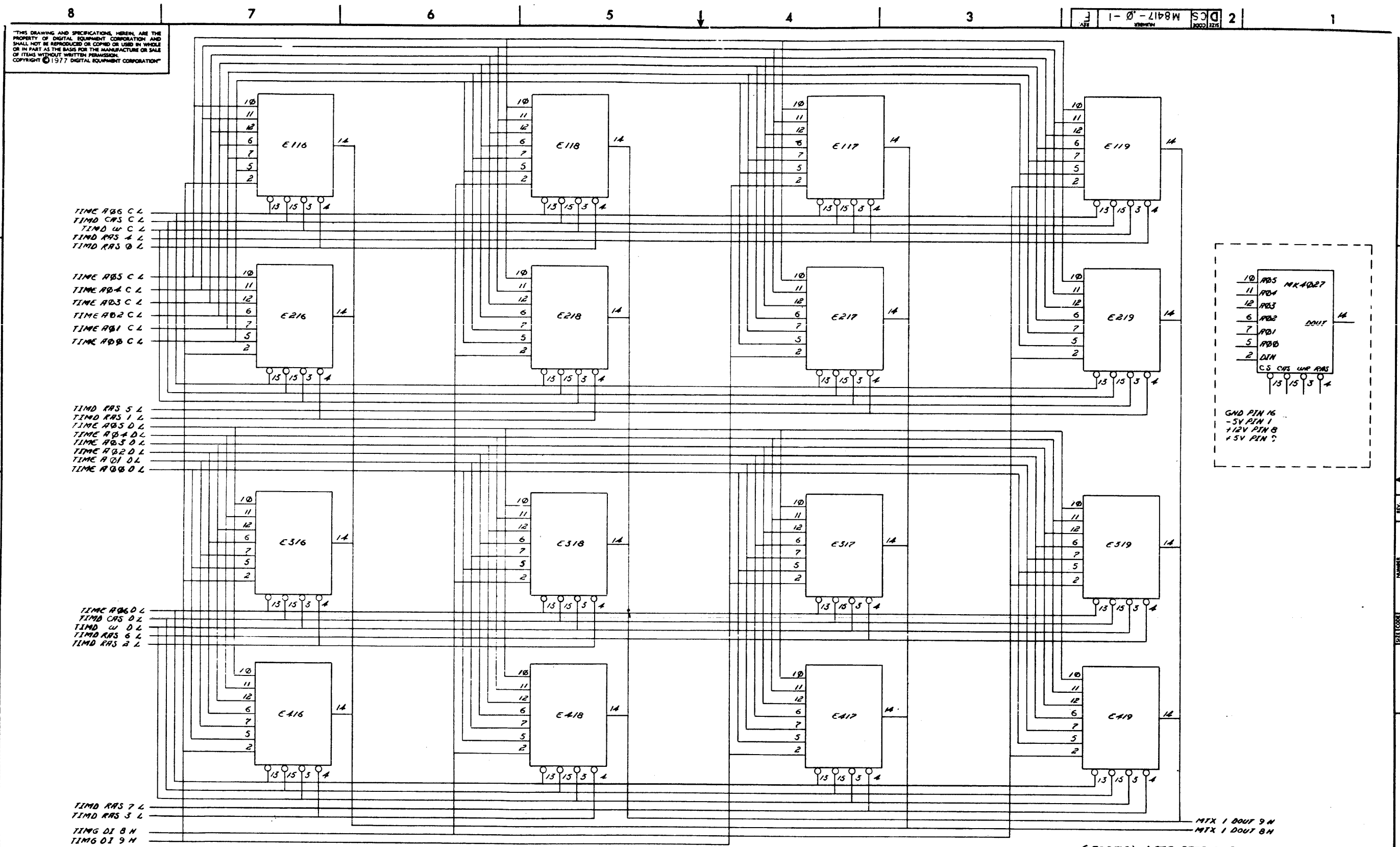
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MOS MEMORY	SIZE CODE	DCS	NUMBER	M8417-0-1	REV.	F
SCALE	NONE	SHEET	11 OF 13	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.



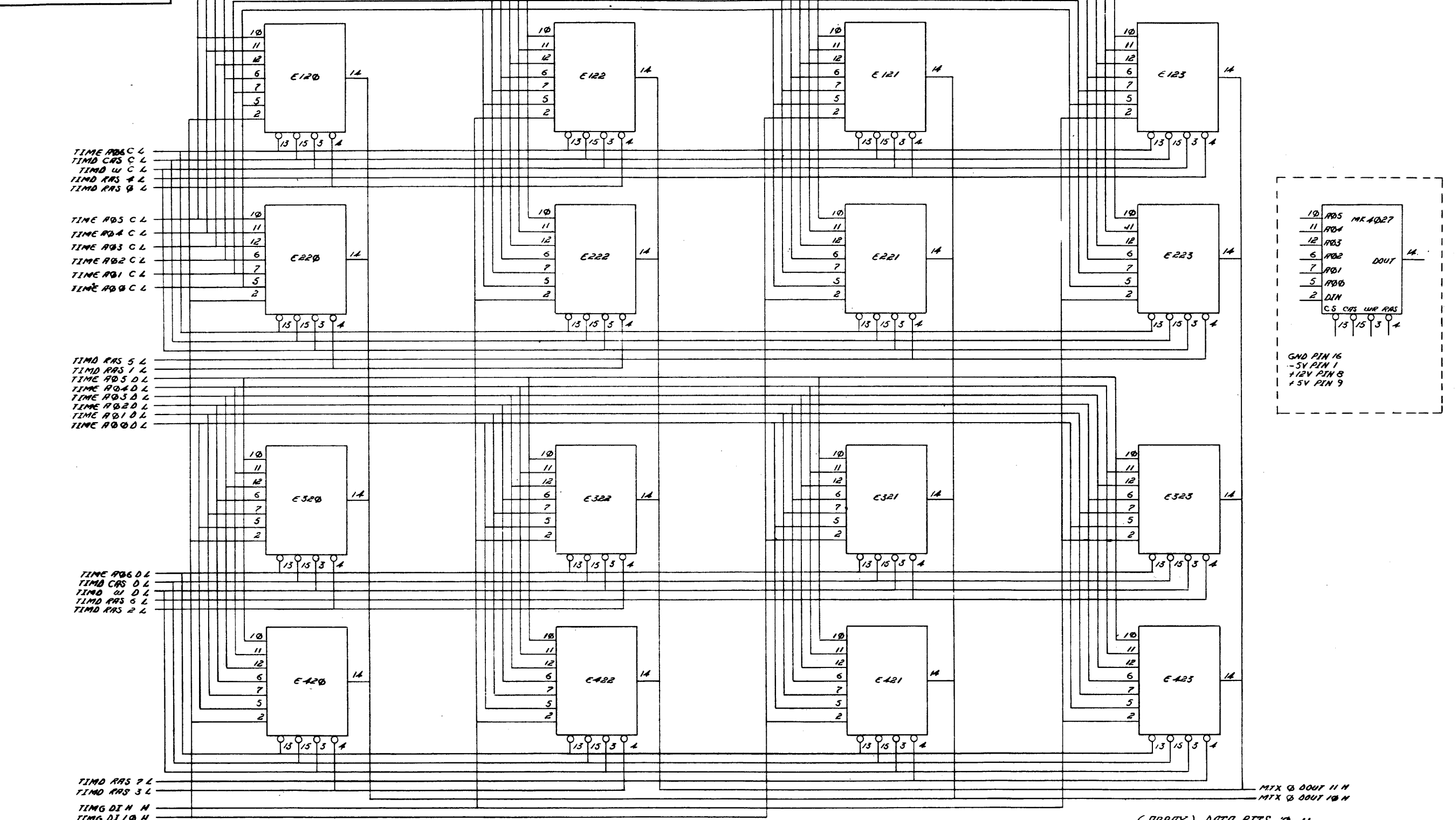
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MTX 1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PDP8 MOS MEMORY	SIZE CODE	DCS	NUMBER	M8417-0-1	REV.	F
SCALE	NONE	SHEET	13 OF 14	DIST.			

REV. F
NUMBER M8417-0-1
SHEET CODE DCS

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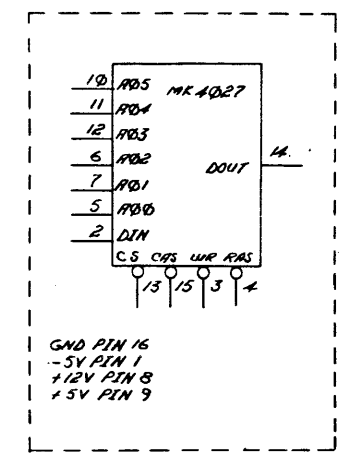


TIME R06 C L
TIME R05 C L
TIME R04 C L
TIME R03 C L
TIME R02 C L
TIME R01 C L
TIME R00 C L

TIME R05 D L
TIME R04 D L
TIME R03 D L
TIME R02 D L
TIME R01 D L

TIME R06 D L
TIME R05 D L
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TIME R03 D L
TIME R02 D L
TIME R01 D L

TIME RAS 7 L
TIME RAS 3 L
TIME DIN H
TIME DI 10 H



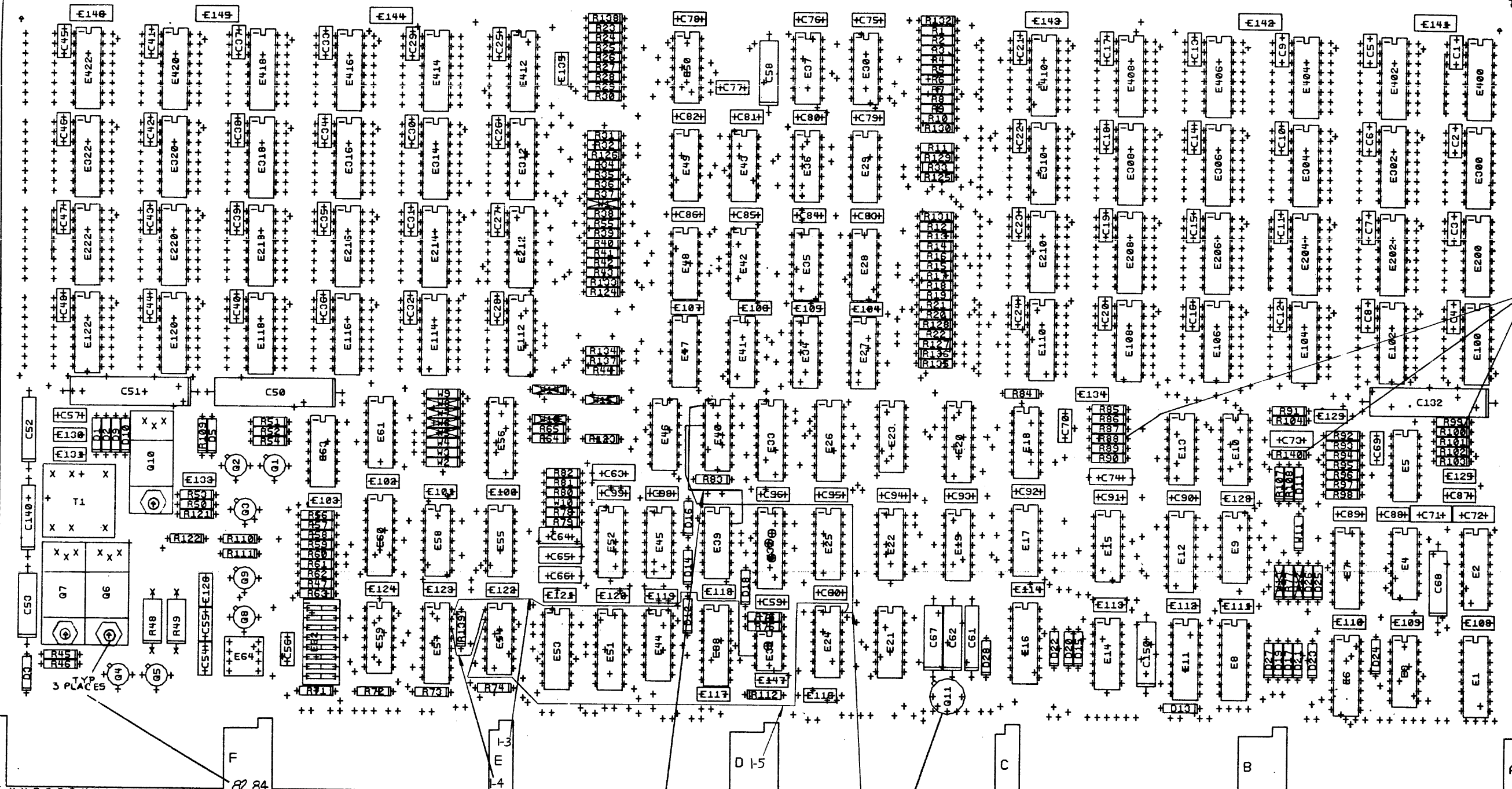
(ARRAY) DATA BITS 10, 11
MTX Q

REVISIONS		
CHK	CHANGE NO.	REV.

MODULE VARIATION M8417-AA

2 DUM8417-0-0

COMPONENT SIDE VIEW



SEE NOTE 1

NOTES: 1. R100, R140 & R88 WILL NOT BE INSTALLED AT ASSEMBLY, BUT AT MEMORY TEST, IF NEEDED.
2. M8417-AA = M8417-AB, AC ETC. = (6XK12 BIT MEMORY).

CHK	CHANGE NO	REV	DATE	BY
	0001	B		
	0002	C		
	0003	D		
	0004	E		
	0005	F		

FOR PARTS LIST, SEE B-PL-M8417-0-0

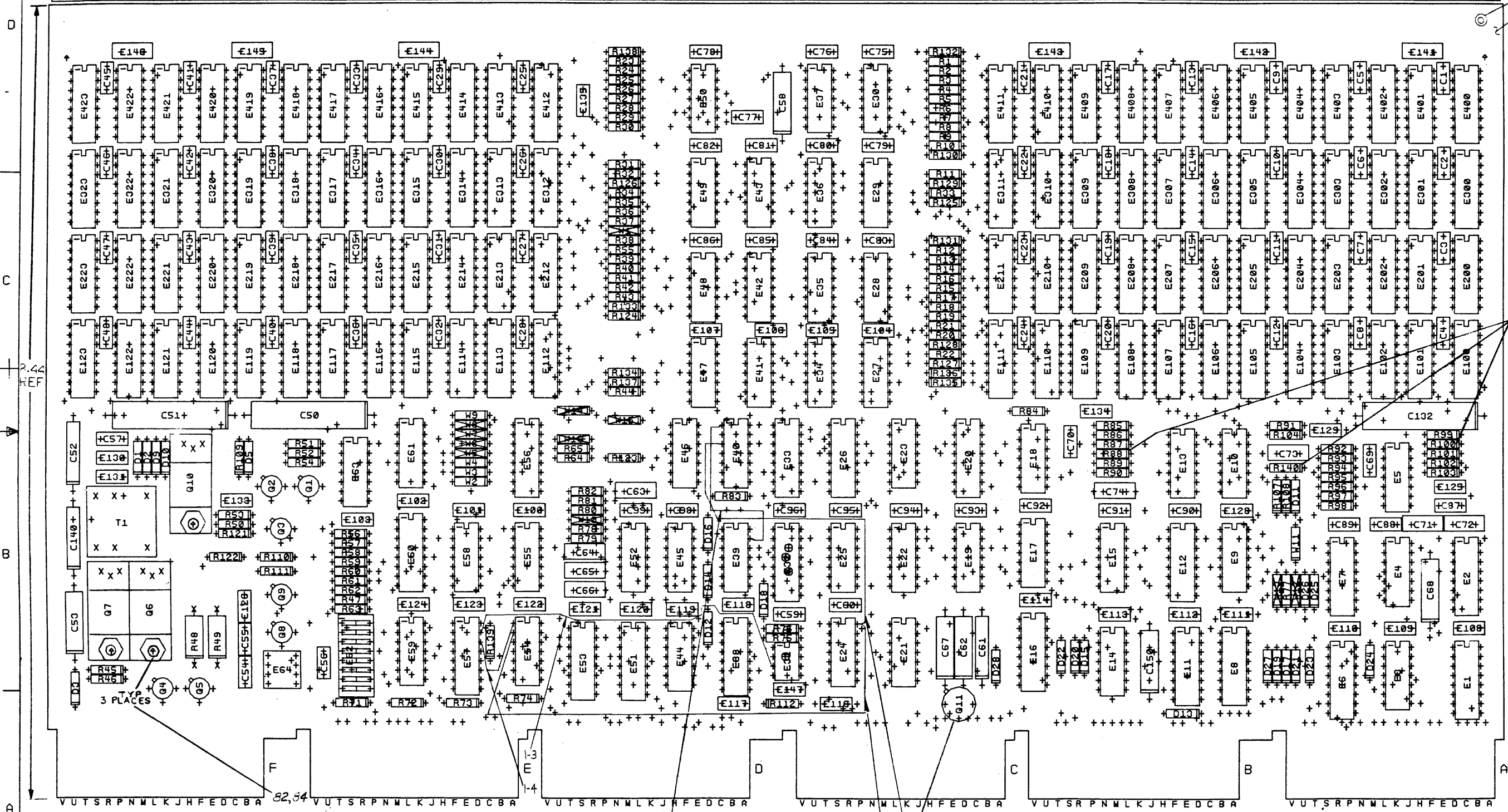
ETCH REV. B
P.C. DESIGN DATA BRSE REV. B1

SIGNATURES	DATE	digital
DRN. <i>B. Sullivan</i>	5-19-77	
CHK'D. <i>B. Sullivan</i>	5-19-77	
ENG. <i>J. Stegeman</i>	2-2-77	
PROD. <i>J. Stegeman</i>	7-8-77	
TITLE	PDP 8 MOS MEMORY	
SCALE	2/1	
SHT. OF 3	SIZE CODE	NUMBER
NEXT HIGHER ASSY. B-DD-M8417-0	0 UA	M8417-0-0

MODULE VARIATION M8417-BA

COMPONENT SIDE VIEW

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SEE NOTE 1

NOTES: 1. R100, R140 & R88 WILL NOT BE INSTALLED AT ASSEMBLY, BUT AT MEMORY TEST, IF NEEDED.
2. M8417-BA = M8417-6A, 6C ETC. = (32K X 12 BIT MEMORY).

CHG	NO	REV

FOR PARTS LIST
SEE B-PL-M8417-0-0

ETCH REV. B
P.C. DESIGN DATA BASE REV. B1

SIGNATURES		DATE	digital
DRN. <i>B. Sullivan</i>		5-19-77	
CHK'D. <i>James Scam</i>		5-19-77	
ENG. <i>...</i>		7-8-77	
PROJ. ENG. <i>...</i>		7-8-77	
PROD. <i>...</i>		7-8-77	
SCALE 2:1			
SHT. 2 OF 8			
NEXT HIGHER ASSY. D-CD-M8417-0			

TITLE PDP 8 MOS MEMORY
SIZE CODE NUMBER REV
D UA M8417-0-0 E

8

7

6

5

4

3

0-2-1-1 0 2

1

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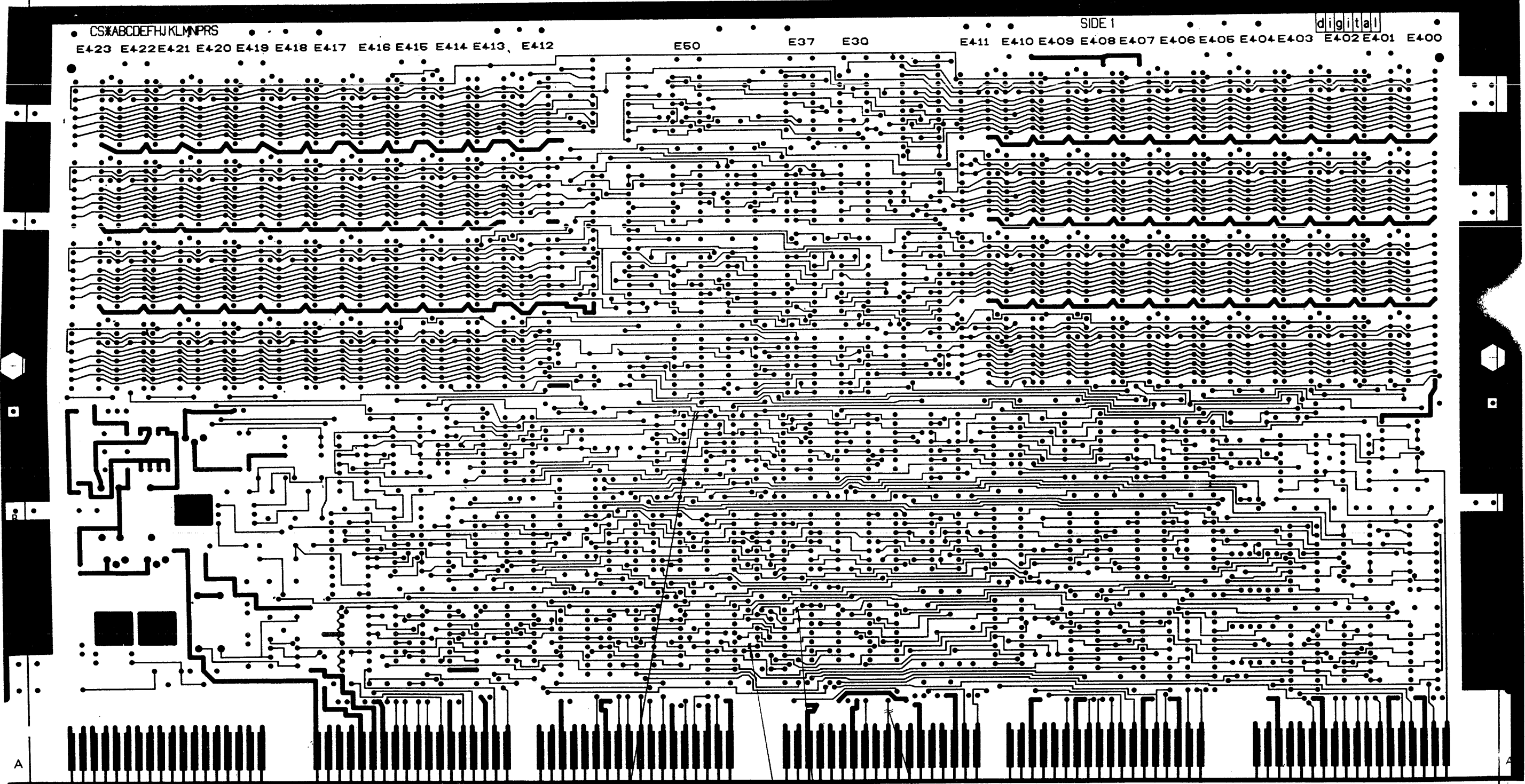
L1

M8417 LAYER 1 5012701B

CS*ABCDEFGHIJKLMNPRS
 E423 E422 E421 E420 E419 E418 E417 E416 E415 E414 E413 E412 E50 E37 E30 E411 E410 E409 E408 E407 E406 E405 E404 E403 E402 E401 E400

SIDE 1

digital



REV. NO.		DATE		BY		CHK		CHANGE NO.		REV.		
8	7	6	5	4	3	2	1	TITLE PDP8 MOS MEMORY		SIZE CODE D UA	NUMBER M8417-0-0	REV. E
SCALE 2/1						SHEET 3 OF 3		DIST.		2 ml		

8

7

6

5

4

3

E

0-0-1198W

2

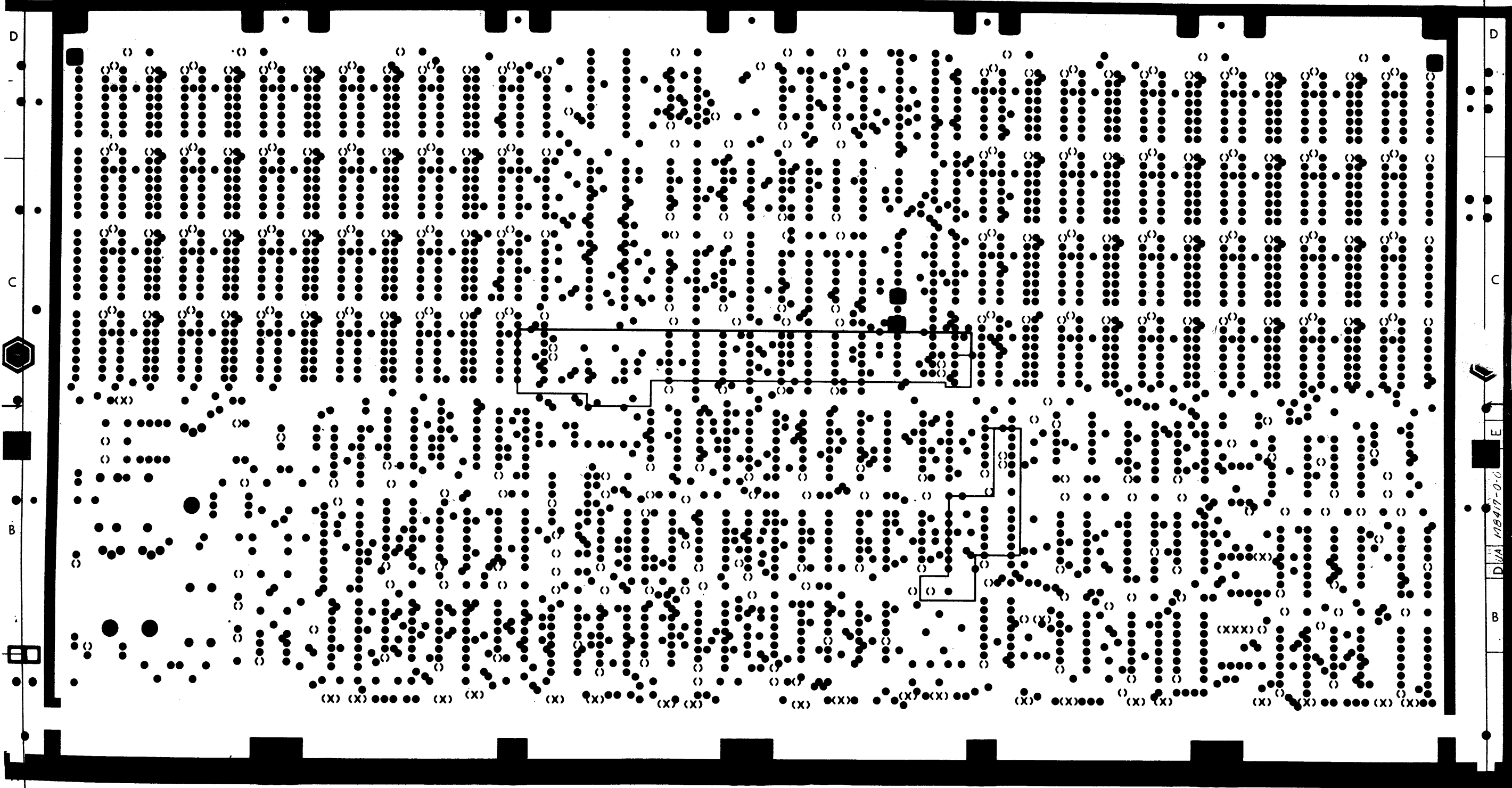
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L2 M8417B

M8417

LAYER 2
5012701B



REVISIONS		
CHK	CHANGE NO	REV

TITLE	PDP8 MOS MEMORY	SIZE CODE	DUA	NUMBER	M8417-0-0	REV.	E
SCALE	2/1	SHEET	4 OF 8	DIST.			

8

7

6

5

4

3

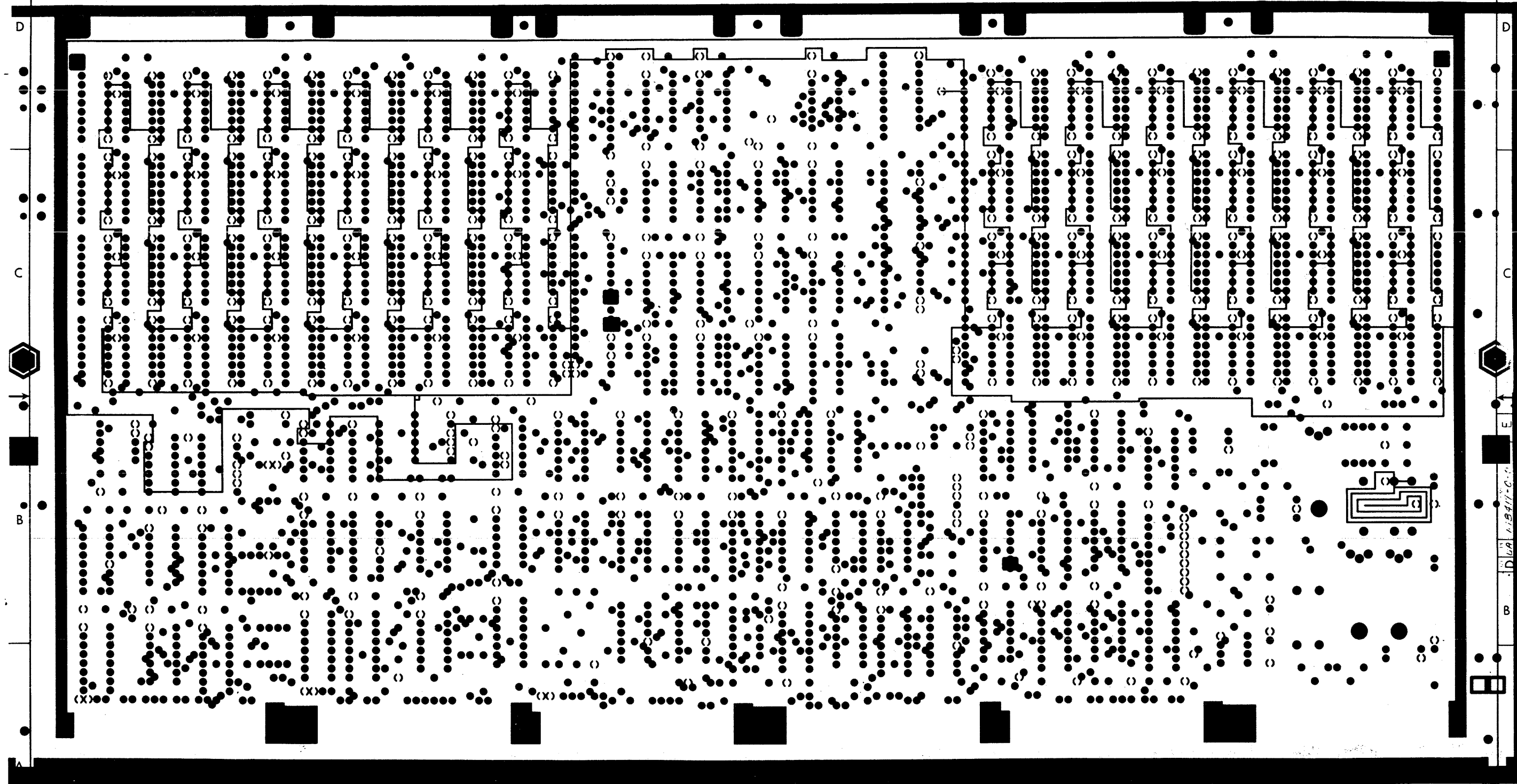
2 mC

1

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E 834A J

M8417B L3



REVISIONS		
CHK	CHANGE NO	REV

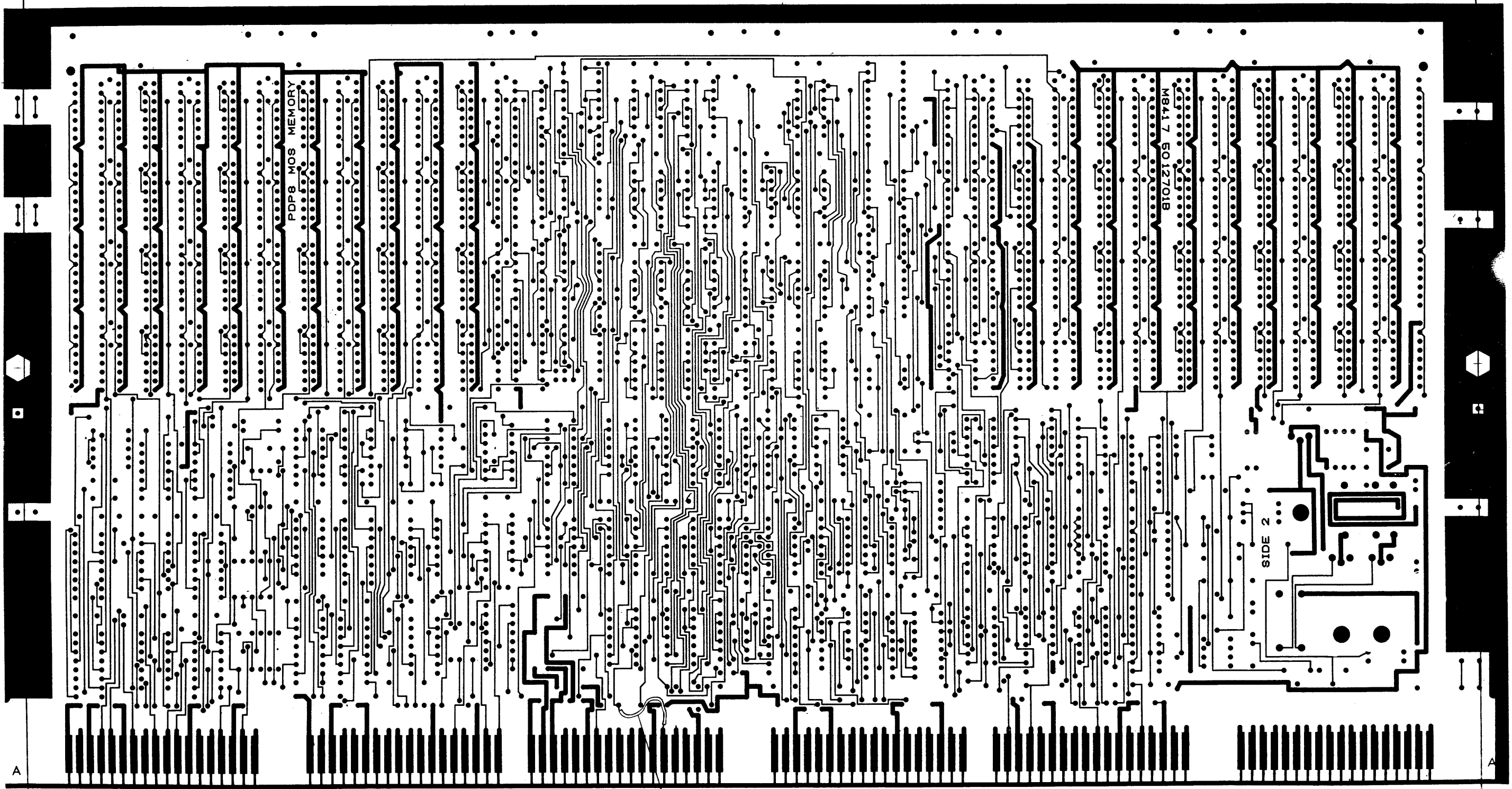
8	7	6	5	4	3	2	1	
TITLE PDP8 MOS MEMORY						SIZE CODE D UA	NUMBER M8417-0-0	REV. E
SCALE 2/1		SHEET 5 OF 8		DIST.				

M4

4 R3YA J

L4

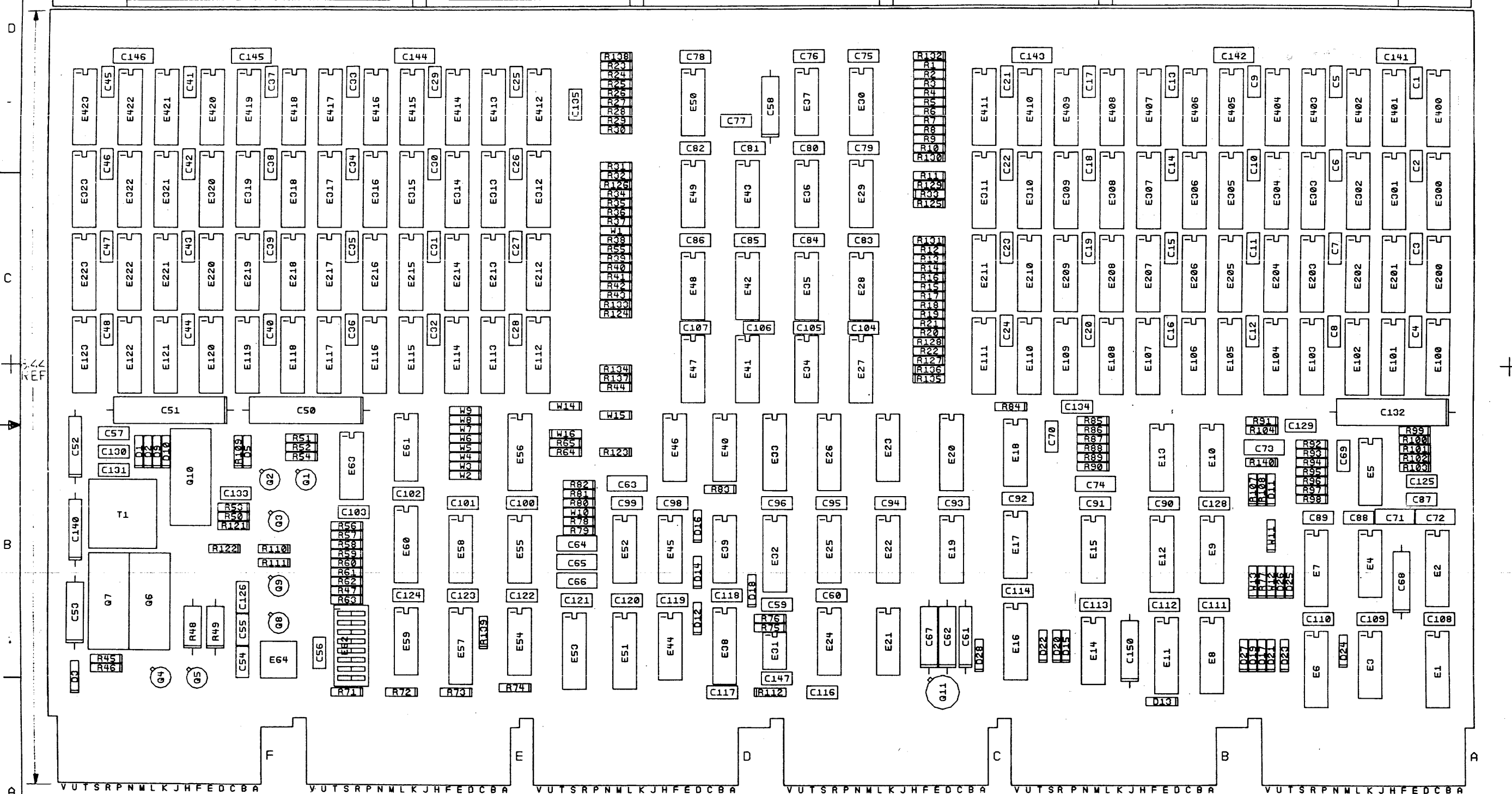
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REVISIONS		
CHK	CHANGE NO	REV

T-TITLE	PDP8 MOS MEMORY		SIZE CODE	D UA	NUMBER	M8417-0-0	REV.	E
SCALE	2/1	SHEET	6	OF	8	DIST.		

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NOTES:

CHG	NO	REV

DWG-REF ONLY

SIGNATURES	DATE	digital
DRN. <i>J. Sullivan</i>	5-19-77	
CHK'D. <i>A. B. ...</i>	5-19-77	
ENC. <i>[Signature]</i>	7/8/77	TITLE PDP 8 MOS MEMORY
PROJ. ENG. <i>[Signature]</i>	7/8/77	SIZE CODE NUMBER
PROD. <i>[Signature]</i>	7-8-77	0 UA M8417-0-0 RFL
SHT. 7 OF 8		
NEXT HIGHER ASSY. B-DL-M8417-0		

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REWORK INSTRUCTIONS

ECO #1

- ETCH CUTS SIDE 1:*
 1-1 CUT ETCH TO FREE E31-3
 1-2 CUT ETCH TO FREE E31-3
WIRE ADDS SIDE 1:
 1-3 WIRE E31-3 TO E57-15
 1-4 WIRE E57-14 TO E54-1
 1-5 WIRE E54-2 TO E24-14
 1-6 WIRE E24-14 TO E40-3

ECO #2

- ETCH CUTS SIDE 1:*
 2-1 CUT ETCH BETWEEN PIN CK1 & FEED THRU
WIRE ADDS SIDE 2:
 2-2 WIRE PIN CP2 TO FEEDTHRU ABOVE CK2 PER PROCEDURE IN MODULE REWORK SPECIFICATION A-SP-7665265-0-0

ECO #3

- ETCH CUTS SIDE 1:*
 3-1 CUT ETCH TO FREE E40-1
WIRE ADDS SIDE 1:
 3-2 FROM E40-1 TO E39-13.

REVISIONS		
CHK	CHANGE NO.	REV.

REV. E
M8417-0-0
DUA

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR
					AB	AD	AC	AE	
1	1	D-UA-M8417-0-0		UNIT ASSY	REF	REF	REF	REF	
2	2	D-UA-M8417-0-0		UNIT ASSY	REF	-	-	-	
3	3		5012701-00	ETCH BOARD (M8418)	1	1	1	1	
4	4		1000006-00	10.0 MMF 100V 5%200PPM MICA	1	1	1	1	C66
5	5		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	1	1	1	C64
6	6		1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	1	1	1	C65
7	7		1001610-01	.01 MFD50/100V +80-20% DISC	53	53	53	53	C60, C75-C96, C98-C114, C116-C125, C128, C129, C147
8	8		1005306-0C	6.8MFD 35V 10% S.TANT	8	8	8	8	C53, C58, C67, C61, C62, C63, C140, C150
9	9		1010274-00	.22 MFD 50V +80-20% Z5U CER	60	60	60	60	C1-C48, C57, C69, C70, C133-C135, C141-C146
10	10		1010279-00	.47 MFD 25V 20% CER	6	6	6	6	C54-C56, C126, C130, C131
11	11		1012084-01	8 MFD 25V +75-10% AL EL	1	1	1	1	C52
12	12		1012121-00	220.0 MMF 100V 1%200PPM MICA	6	6	6	6	C59, C63, C71-C74
13	13		1012219-00	47 MFD 30V +75-10% AL EL	3	3	3	3	C50, C51, C132
14	14		1101938-00	1N 4370A VZ= 2.4 5% .40W	1	1	1	1	D3
15	15		1104860-00	1N 746A VZ= 3.3 5%	1	1	1	1	D5
16	16		1105275-00	D 672 TR= 15NS PIV= 60V SI	21	21	21	21	D1, D2, D9-D27
17	17		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	1	1	1	1	D28
18	18		1211164-04	SW DIP 1P 1A 8POS	1	1	1	1	E62
19	19		1210711-02	/REPLACED BY 12-16988-02	1	1	1	1	
20	20		1300250-00	150.0 .25 W 5.0 % CC	1	1	1	1	R47
21	21		1300271-00	220.0 .25 W 5.0 % CC	16	16	16	16	R123-R138
22	22		1300316-00	470.0 .25 W 5.0 % CC	2	2	2	2	R46, R51
23	23		1300365-00	1.0 K .25 W 5.0 % CC	9	9	9	9	R45, R50, R53, R54, R82-R84, R103, R104
24	24		1300447-00	4.70 K .25 W 5.0 % CC	15	15	15	15	R55-R65, R77, R78, R81, R139
25	25		1300479-00	10.0 K .25 W 5.0 % CC	6	6	6	6	R71-R74, R121, R122
26	26		1302124-00	18.0 .25 W 5.0 % CC	46	46	46	46	R1-R44, R90, R98

REVISION HISTORY			BASIC PART NO: M8417		DRN: L. METZGER		DATE: 30-MAY-78		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF C		CHK'D: P. BOSSMAN		DATE: 30-MAY-78		TITLE	
E.R.	CJ003	D	SECTION VARIATION INDEX		DES. ENG: J. STEGEMAN		DATE: 30-MAY-78		PDP8 MOS MEMORY	
J.S.	M8417-ML004	E	[A]	AB, AD, AC, AE	RESP. ENG.: J. STEGEMAN		DATE: 30-MAY-78		DOCUMENT NUMBER	
J.S.	M8417-ML005	F	[B]	BB, BC, BD, BE	MFG. ENG.: C. TANNEK		DATE: 30-MAY-78		SIZE: CODE: NUMBER REV	
J.S.	M8417-ML006	H	[C]	AF, BF	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #	
			[D]		D-UA-M8417-0-0		MS8-C		Z0189H.PLS 6	
			[E]							
			[F]							
			[H]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR					
					AB	AD	AC	AE						
27	27		1302377-00	39.0	.25	W	5.0	%	CC	5	5	5	5	R52, R109-R112
28	28		1302859-00	5.76 K	.25	W	1.0	%	RN55D-F10	1	1	1	1	R96
29	29		1302871-00	1.21 K	.25	W	1.0	%	RN55D-F10	2	2	2	2	R80, R108
30	30		1302872-00	681.0	.25	W	1.0	%	RN55D-F10	1	1	1	1	R89
31	31		1302956-00	196.0	.25	W	1.0	%	RN55D-F10	1	1	1	1	R94
32	32		1302957-00	121.0	.25	W	1.0	%	RN55D-F10	1	1	1	1	R101
33	33		1303045-00	3.16 K	.25	W	1.0	%	RN55D-F10	1	1	1	1	R76
34	34		1303067-00	422.0	.25	W	1.0	%	RN55D-F10	1	1	1	1	R99
35	35		1303110-00	19.60	.25	W	1.0	%	RN55D-F10	1	1	1	1	R93
36	36		1303226-00	68.10	.25	W	1.0	%	RN55D-F10	1	1	1	1	R86
37	37		1303311-00	46.40 K	.25	W	1.0	%	RN55D-F10	1	1	1	1	R75
38	38		1303313-00	12.10 K	.25	W	1.0	%	RN55D-F10	1	1	1	1	R97
39	39		1304725-00	300.0	.25	W	1.0	%	RN55D-F10	1	1	1	1	R107
40	40	SEE NOTE 90	1304833-00	1.96 K	.25	W	1.0	%	RN55D-F10	1	1	1	1	R92
41	41		1305122-00	51.10	.25	W	1.0	%	RN55D-F10	1	1	1	1	R85
42	42		1305123-00	215.0	.25	W	1.0	%	RN55D-F10	2	2	2	2	R91, R102
43	43		1305143-00	825.0	.25	W	1.0	%	RN55D-F10	2	2	2	2	R95, R79
44	44	SEE NOTE 90	1305253-00	7.15 K	.25	W	1.0	%	RN55D-F10	1	1	1	1	R87
45	45		1309405-00	68.0	.50	W	5.0	%	CC	2	2	2	2	R48, R49
46	46		1503100-00	DEC3009B	NPN	200MW	SI	20	25	2	7	7	7	Q1-Q5, Q8, Q9
47	47		1510171-00	D	44C3	NPN	30WT	SI	30	20	Y	2	2	Q6, Q7
48	48		1614234-00	XFMR,	CONVERTER,	RATIO	1:3	300UH		1	1	1	1	T1
49	49		1909054-00	7493	COUNTER,	ASYNCH	UP	BI		2	2	2	2	E21, E24
50	50		1909705-00	DEC 8881	NAND	GATE-QUAD	2IN	0		4	4	4	4	E3, E14, E17, E44
51	51		1910268-01	DEC 75107B-01	RECEIVER,	LINE,	DUA			3	3	3	3	E5, E10, E18
52	52		1910406-00	75451	DRIVER,	PERIPH,	DUAL,			1	1	1	1	E64
53	53		1910532-00	74500	NAND	GATE-QUAD	2IN			6	6	6	6	E4, E34, E37, E42, E43, E55
54	54		1910533-00	74503	NAND	GATE-QUAD	2IN	0		1	1	1	1	E13
55	55		1910534-00	74504	INVERTER	GATE-HEX	1I			2	2	2	2	E22, E54
56	56		1910536-00	74510	NAND	GATE-TRIPLE	3IN			3	3	3	3	E19, E61, E63
57	57		1910539-00	74520	NAND	GATE-DUAL	4INPU			1	1	1	1	E59
58	58		1910542-00	74564	A-O-I	GATE	4-2-3-2			1	1	1	1	E15
59	59		1910544-01	74574-60GG-D	DUAL,	EDGE	TRIG			1	1	1	1	E39
60	60		1910545-00	745112	FF-JK	DUAL,	EDGE	TRIG		3	3	3	3	E7, E20, E32
61	61		1910549-00	745158	MUX	1 OF 2	(QUAD)			2	2	2	2	E26, E33
62	62		1911116-00	DEC 8837	RECEIVER,	BUS,	HEX,	UN		5	5	5	5	E6, E8, E16, E38, E57
63	63		1911469-00	DEC 8640	RECEIVER,	BUS,	QUAD,	U		1	1	1	1	E45
64	64		1911579-00	8641	TRANSCEIVER,	BUS,	QUA			3	3	3	3	E1, E11, E51
65	65		1911676-00	745139	DECODER-DUAL	TWO-INP				1	1	1	1	E56
66	66		1911712-00	74551	AND-OR	GATE-INVERT	D			1	1	1	1	E58
67	67		1911944-00	555CN	TIMER,	FUNCT.	BLOCK			1	1	1	1	E31
68	68		1911983-00	745133	NAND	GATE-POSITIVE	1			1	1	1	1	E60
69	69	SEE NOTE 93	1912048-06	DEC 7812	VOLT	REG, FIX	+12V			1	1	1	1	Q10
70	70		1912388-00	74502	NOR	GATE-QUAD	2IN, PO			3	3	3	3	E9, E25, E46
71	71		1912389-00	74508	AND	GATE-QUAD	2IN, PO			1	1	1	1	E23
72	72		1912541-00	79M05	VOLT	REG, FIX	-5V			1	1	1	1	Q11
73	73		1912649-00	LS75	LATCH	4BIT,	BISTABLE			3	3	3	3	E2, E12, E53
74	74		1912746-00	DEC 74537	NAND	GATE-QUAD	2IN			11	11	11	11	E27-E30, E35, E36, E41, E47-E50

D	I	G	I	T	A	L	TITLE	PDP8 MOS MEMORY	SECTION A	OF C	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	M8417-0-DBP	H

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR
					BB	BC	BD	BE	
1	1	D-UA-M8417-0-0		UNIT ASSY	REF	REF	REF	REF	
2	2	D-UA-M8417-0-0		*** THIS ITEM IS NOT USED ***	-	-	-	-	
3	3		5012701-00	ETCH BOARD (M8418)	1	1	1	1	
4	4		1000006-00	10.0 MMF 100V 5%200PPM MICA	1	1	1	1	C66
5	5		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	1	1	1	C64
6	6		1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	1	1	1	C65
7	7		1001610-01	.01 MFD50/100V +80-20% DISC	53	53	53	53	C60, C75-C96, C98-C114, C116-C125, C128, C129, C147
8	8		1005306-00	6.8MFD 35V 10% S.TANT	8	8	8	8	C53, C58, C67, C61, C62, C68, C140, C150
9	9		1010274-00	.22 MFD 50V +80-20% ZSU CER	60	60	60	60	C1-C48, C57, C69, C70, C133-C135, C141-C146
10	10		1010279-00	.47 MFD 25V 20% CER	6	6	6	6	C54-C56, C126, C130, C131
11	11		1012084-01	8 MFD 25V +75-10% AL EL	1	1	1	1	C52
12	12		1012121-00	220.0 MMF 100V 1%200PPM MICA	6	6	6	6	C59, C63, C71-C74
13	13		1012219-00	47 MFD 30V +75-10% AL EL	3	3	3	3	C50, C51, C132
14	14		1101938-00	1N 4370A VZ= 2.4 5% .40W	1	1	1	1	D3
15	15		1104860-00	1N 746A VZ= 3.3 5%	1	1	1	1	D5
16	16		1105275-00	D 672 TR= 15NS PIV= 60V SI	21	21	21	21	D1, D2, D9-D27
17	17		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	1	1	1	1	D28
18	18		1211164-04	SW DIP 1P 1A 8POS	1	1	1	1	E62
19	19		1210711-02	/REPLACED BY 12-16988-02	1	1	1	1	
20	20		1300250-00	150.0 .25 W 5.0 % CC	1	1	1	1	R47
21	21		1300271-00	220.0 .25 W 5.0 % CC	16	16	16	16	R123-R138
22	22		1300316-00	470.0 .25 W 5.0 % CC	2	2	2	2	R46, R51
23	23		1300365-00	1.0 K .25 W 5.0 % CC	9	9	9	9	R45, R50, R53, R54, R82-R84, R103, R104
24	24		1300447-00	4.70 K .25 W 5.0 % CC	15	15	15	15	R55-R65, R77, R78, R81, R139
25	25		1300479-00	10.0 K .25 W 5.0 % CC	6	6	6	6	R71-R74, R121, R122
26	26		1302124-00	18.0 .25 W 5.0 % CC	46	46	46	46	R1-R44, R90, R98

REVISION HISTORY		BASIC PART NO: M8417		DRN:	L. METZGER	DATE:	30-MAY-78	DIGITAL	
ENG:	ECO NUMBER	REV	SECTION B OF C	CHK'D:	P. BOSSMAN	DATE:	30-MAY-78	PARTS LIST	
E.R.	G3003	D	SECTION VARIATION INDEX					PDP8 MOS MEMORY	
J.S.	M8417-ML004	E	[A] AB, AD, AC, AE						
J.S.	M8417-ML005	F	[B] BB, BC, BD, BE						
J.S.	M8417-ML006	H	[C] AF, BF						
			[D]						
			[E]						
			[F]						
			[H]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						
				MFG.ENG.:	C. TANNER	DATE:	30-MAY-78	K	PL M8417-0-DBP H
				ASSEMBLY NUMBER:	D-UA-M8417-0-0	TOP DOCUMENT NUMBER:	MS8-C	FILE NAME:	Z0189H.PLS
								NUMBER	REV

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR
					BB	BC	BD	BE	
27	27		1302377-00	39.0 .25 W 5.0 % CC	5	5	5	5	R52,R109-R112
28	28		1302859-00	5.76 K .25 W 1.0 % RN55D-F10	1	1	1	1	R96
29	29		1302871-00	1.21 K .25 W 1.0 % RN55D-F10	2	2	2	2	R80,R108
30	30		1302872-00	681.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R89
31	31		1302956-00	196.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R94
32	32		1302957-00	121.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R101
33	33		1303045-00	3.16 K .25 W 1.0 % RN55D-F10	1	1	1	1	R76
34	34		1303067-00	422.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R99
35	35		1303110-00	19.60 .25 W 1.0 % RN55D-F10	1	1	1	1	R93
36	36		1303226-00	68.10 .25 W 1.0 % RN55D-F10	1	1	1	1	R86
37	37		1303311-00	46.40 K .25 W 1.0 % RN55D-F10	1	1	1	1	R75
38	38		1303313-00	12.10 K .25 W 1.0 % RN55D-F10	1	1	1	1	R97
39	39		1304725-00	300.0 .25 W 1.0 % RN55D-F10	1	1	1	1	R107
40	40	SEE NOTE 90	1304833-00	1.96 K .25 W 1.0 % RN55D-F10	1	1	1	1	R92
41	41		1305122-00	51.10 .25 W 1.0 % RN55D-F10	1	1	1	1	R85
42	42		1305123-00	215.0 .25 W 1.0 % RN55D-F10	2	2	2	2	R91,R102
43	43		1305143-00	825.0 .25 W 1.0 % RN55D-F10	2	2	2	2	R95,R79
44	44	SEE NOTE 90	1305253-00	7.15 K .25 W 1.0 % RN55D-F10	1	1	1	1	R87
45	45		1309405-00	68.0 .50 W 5.0 % CC	2	2	2	2	R48,R49
46	46		1503100-00	DEC30098 NPN 200MW SI 20 25	7	7	7	7	Q1-Q5,Q8,Q9
47	47		1510171-00	D 44C3 NPN 30WT SI 30 20 Y	2	2	2	2	Q6,Q7
48	48		1614234-00	XFMR, CONVERTER, RATIO 1:3 300UH	1	1	1	1	T1
49	49		1909054-00	7493 COUNTER, ASYNCH UP, BI	2	2	2	2	E21,E24
50	50		1909705-00	DEC 8881 NAND GATE-QUAD 2IN 0	4	4	4	4	E3,E14,E17,E44
51	51		1910268-01	DEC 75107B-01 RECEIVER, LINE, DUA	3	3	3	3	E5,E10,E18
52	52		1910406-00	75451 DRIVER, PERIPH, DUAL,	1	1	1	1	E64
53	53		1910532-00	74500 NAND GATE-QUAD 2IN	6	6	6	6	E4,E34,E37,E42,E43,E55
54	54		1910533-00	74503 NAND GATE-QUAD 2IN 0	1	1	1	1	E13
55	55		1910534-00	74504 INVERTER GATE-HEX 1I	2	2	2	2	E22,E54
56	56		1910536-00	74510 NAND GATE-TRIPLE 3IN	3	3	3	3	E19,E51,E63
57	57		1910539-00	74520 NAND GATE-DUAL 4INPU	1	1	1	1	E59
58	58		1910542-00	74564 A-O-I GATE 4-2-3-2	1	1	1	1	E15
59	59		1910544-01	74574-60GG-D DUAL, EDGE TRIG	1	1	1	1	E39
60	60		1910545-00	745112 FF-JK DUAL, EDGE TRIG	3	3	3	3	E7,E20,E32
61	61		1910549-00	745158 MUX 1 OF 2 (QUAD)	2	2	2	2	E26,E33
62	62		1911116-00	DEC 8837 RECEIVER, BUS, HEX, UN	5	5	5	5	E6,E8,E16,E38,E57
63	63		1911469-00	DEC 8640 RECEIVER, BUS, QUAD, U	1	1	1	1	E45
64	64		1911579-00	8641 TRANSCEIVER, BUS, QUA	3	3	3	3	E1,E11,E51
65	65		1911676-00	745139 DECODER-DUAL TWO-INP	1	1	1	1	E56
66	66		1911712-00	74551 AND-OR GATE-INVERT D	1	1	1	1	E58
67	67		1911944-00	555CN TIMER, FUNCT. BLOCK	1	1	1	1	E31
68	68		1911983-00	745133 NAND GATE-POSITIVE 1	1	1	1	1	E60
69	69	SEE NOTE 93	1912048-06	DEC 7812 VOLT REG, FIX +12V	1	1	1	1	Q10
70	70		1912388-00	74502 NOR GATE-QUAD 2IN, PO	3	3	3	3	E9,E25,E46
71	71		1912389-00	74508 AND GATE-QUAD 2IN, PO	1	1	1	1	E23
72	72		1912541-00	79M05 VOLT REG, FIX -5V	1	1	1	1	Q11
73	73		1912649-00	L575 LATCH 4BIT, BISTABLE	3	3	3	3	E2,E12,E53
74	74		1912746-00	DEC 74537 NAND GATE-QUAD 2IN	11	11	11	11	E27-E30,E35,E36,E41,E47-E50

D	I	G	I	T	A	L	TITLE	PDP8 MOS MEMORY	SECTION B OF C	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8417-0-DBP	H

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION				REFERENCE DESIGNATOR
					BB	BC	BD	BE	
75	75		1912803-00	74LS04 INVERTER GATE, HEX	1	1	1	1	E52
76	76		1912824-00	LS74 FF-D DUAL EDGE TRIGG	1	1	1	1	E40
77	77		2113735-01	4K MOS RAM 200NS 1	96	-	-	-	E100-E123, E200-E223, E300-E323, E400-E423
78	78		2114114-01	4K MOS RAM 200NS 1	-	96	-	-	E100-E123, E200-E223, E300-E323, E400-E423
79	79		2113914-01	4K MOS RAM 200NS 1	-	-	96	-	E100-E123, E200-E223, E300-E323, E400-E423
80	80	SEE NOTE 91	2114475-01	4K MOS RAM 200NS 1	-	-	-	96	E100-E123, E200-E223, E300-E323, E400-E423
81	81		9009024-01	EYELET ROLL FLANGE .1210DX .192	12	12	12	12	
82	82	USE WITH Q6, Q7, Q10	9006557-00	NUT, KEP 4-40X 1/4 AF	3	3	3	3	
83	83	USE WITH Q11	9007254-00	TRANSIPADS #10146	1	1	1	1	
84	84	USE WITH Q6, Q7, Q10	9008301-01	SCREW, PAN, PHIL 4-40X 1/4 SS	3	3	3	3	
85	85		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	5	5	5	5	W2, W3, W4, W9, W11
86	86		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	A/R	A/R	A/R	
87	87		2113789-01	*** THIS ITEM IS NOT USED ***	-	-	-	-	

- 88 NOTE: M8417-AA=M8417-AB, AC, AD, AE, AF, (16KX12)
- 89 NOTE: M8417-BA=M8417-BB, BC, BD, BE, BF(32KX12)
- 90 NOTE: USED ON: OPTION/MODEL M58-CA, M58-CB
- 91 NOTE: R87, R92 MAY BE REMOVED AT MODULE TEST IF NEEDED.
- 92 NOTE: MIXING OF MOS RAMS IS NOT PERMITTED.
- 93 NOTE: REF ITEM #69 19-12048-05 ACCEPTABLE SUBSTITUTE FOR 19-12048-06.
- 94 NOTE: -----

D	I	G	I	T	A	L	TITLE	PDP8 MOS MEMORY	SECTION B OF C	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8417-0-DBP	H

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	REFERENCE	REFERENCE
					AF	BF	DESIGNATOR	DESIGNATOR
1	1	D-UA-M8417-0-0		UNIT ASSY	REF	REF		
2	2	D-UA-M8417-0-0		UNIT ASSY	REF	REF		
3	3		5012701-00	ETCH BOARD (M8418)	1	1		
4	4		1000006-00	10.0 MMF 100V 5%200PPM MICA	1	1		C66
5	5		1000016-00	100.0 MMF 100V 5%200PPM MICA	1	1		C64
6	6		1000042-00	1000.0 MMF 100V 5%200PPM MICA	1	1		C65
7	7		1001610-01	.01 MFD50/100V +80-20% DISC	53	53		C60, C75-C96, C98-C114, C116-C125, C128, C129, C147
8	8		1005306-00	6.8MFD 35V 10% S.TANT	8	8	CONT	C53, C58, C67, C61, C62, C68, C140,
9	9		1010274-00	.22 MFD 50V +80-20% Z5U CER	60	60	CONT	C150
10	10		1010279-00	.47 MFD 25V 20% CER	6	6	CONT	C1-C48, C57, C69, C70, C133-C135, C141-C146
11	11		1012084-01	8 MFD 25V +75-10% AL EL	1	1		C54-C56, C126, C130, C131
12	12		1012121-00	220.0 MMF 100V 1%200PPM MICA	6	6		C52
13	13		1012219-00	47 MFD 30V +75-10% AL EL	3	3		C59, C63, C71-C74
14	14		1101938-00	1N 4370A VZ= 2.4 5% .40W	1	1		C50, C51, C132
15	15		1104860-00	1N 746A VZ= 3.3 5%	1	1		D3
16	16		1105275-00	D 672 TR= 15NS PIV= 60V SI	21	21		D5
17	17		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	1	1		D1, D2, D9-D27
18	18		1211164-04	SW, DIP 1P 1A 8POS	1	1		D28
19	19		1210711-02	/REPLACED BY 12-16988-02	1	1		E62
20	20		1300250-00	150.0 .25 W 5.0 % CC	1	1		R47
21	21		1300271-00	220.0 .25 W 5.0 % CC	16	16		R123-R138
22	22		1300316-00	470.0 .25 W 5.0 % CC	2	2		R46, R51
23	23		1300365-00	1.0 K .25 W 5.0 % CC	9	9	CONT	R45, R50, R53, R54, R82-R84, R103, R104
24	24		1300447-00	4.70 K .25 W 5.0 % CC	15	15		R55-R65, R77, R78, R81, R139
25	25		1300479-00	10.0 K .25 W 5.0 % CC	6	6		R71-R74, R121, R122
26	26		1302124-00	18.0 .25 W 5.0 % CC	46	46		R1-R44, R90, R98

REVISION HISTORY		BASIC PART NO: M8417		DRN: L. METZGER		DATE: 30-MAY-78		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION C OF C	CHK'D:	P. BOSSMAN	DATE:	30-MAY-78	TITLE	PARTS LIST
E.R.	00003	D	SECTION VARIATION INDEX	DES. ENG.:	J. STEGEMAN <td>DATE:</td> <td>30-MAY-78</td> <td>DOCUMENT NUMBER</td> <td></td>	DATE:	30-MAY-78	DOCUMENT NUMBER	
J.S.	M8417-ML004	E	[A] AB, AD, AC, AE	RESP. ENG.:	J. STEGEMAN <td>DATE:</td> <td>30-MAY-78</td> <td>SIZE</td> <td>CODE</td>	DATE:	30-MAY-78	SIZE	CODE
JS	M8417-ML005	F	[B] BB, BC, BD, BE	MFG. ENG.:	C. TANNER <td>DATE:</td> <td>30-MAY-78</td> <td>NUMBER</td> <td>REV</td>	DATE:	30-MAY-78	NUMBER	REV
JS	M8417-ML006	H	[C] AF, BF	ASSEMBLY NUMBER:	D-UA-M8417-0-0	TOP DOCUMENT NUMBER:	MSB-C	FILE NAME:	EDIT #
			[D]					Z0189H.PLS	6
			[E]						
			[F]						
			[H]						
			[J]						
			[K]						
			[L]						
			[M]						
			[N]						

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					AF	BF		
27	27		1302377-00	39.0				R52,R109-R112
28	28		1302859-00	5.76 K	.25	W	5.0 %	CC
29	29		1302871-00	1.21 K	.25	W	1.0 %	RN55D-F10
30	30		1302872-00	581.0	.25	W	1.0 %	RN55D-F10
31	31		1302956-00	196.0	.25	W	1.0 %	RN55D-F10
32	32		1302957-00	121.0	.25	W	1.0 %	RN55D-F10
33	33		1303045-00	3.16 K	.25	W	1.0 %	RN55D-F10
34	34		1303067-00	422.0	.25	W	1.0 %	RN55D-F10
35	35		1303110-00	19.60	.25	W	1.0 %	RN55D-F10
36	36		1303226-00	68.10	.25	W	1.0 %	RN55D-F10
37	37		1303311-00	46.40 K	.25	W	1.0 %	RN55D-F10
38	38		1303313-00	12.10 K	.25	W	1.0 %	RN55D-F10
39	39		1304725-00	300.0	.25	W	1.0 %	RN55D-F10
40	40	SEE NOTE 90	1304833-00	1.96 K	.25	W	1.0 %	RN55D-F10
41	41		1305122-00	51.10	.25	W	1.0 %	RN55D-F10
42	42		1305123-00	215.0	.25	W	1.0 %	RN55D-F10
43	43		1305143-00	825.0	.25	W	1.0 %	RN55D-F10
44	44	SEE NOTE 90	1305253-00	7.15 K	.25	W	1.0 %	RN55D-F10
45	45		1309405-00	68.0	.50	W	5.0 %	CC
46	46		1503100-00	DEC3009B	NPN	200MW	SI 20 25	
47	47		1510171-00	D	44C3	NPN	30WT SI 30 20 Y	
48	48		1614234-00	XFMR,	CONVERTER,	RATIO 1:3	300UH	
49	49		1909054-00	7493	COUNTER,	ASYNCH	UP, BI	
50	50		1909705-00	DEC	8881	NAND	GATE-QUAD 2IN 0	
51	51		1910268-01	DEC	75107B-01	RECEIVER,	LINE, DUA	
52	52		1910406-00	75451	DRIVER,	PERIPH,	DUAL,	
53	53		1910532-00	74500	NAND	GATE-QUAD	2IN	
54	54		1910533-00	74503	NAND	GATE-QUAD	2IN 0	
55	55		1910534-00	74504	INVERTER	GATE-HEX	1I	
56	56		1910536-00	74510	NAND	GATE-TRIPLE	3IN	
57	57		1910539-00	74520	NAND	GATE-DUAL	4INPU	
58	58		1910542-00	74564	A-0-I	GATE 4-2-3-2		
59	59		1910544-01	74574-6	OGG-D	CUAL,	EDGE TRIG	
60	60		1910545-00	745112	FF-JK	DUAL,	EDGE TRIG	
61	61		1910549-00	745158	MUX	1 OF 2	(QUAD)	
62	62		1911116-00	DEC	8837	RECEIVER,	BUS, HEX, UN	
63	63		1911469-00	DEC	8640	RECEIVER,	BUS, QUAD, U	
64	64		1911579-00	8641	TRANSCEIVER,	BUS, QUA		
65	65		1911676-00	745139	DECODER-DUAL	TWO-INP		
66	66		1911712-00	74551	AND-OR	GATE-INVERT	D	
67	67		1911944-00	555CN	TIMER,	FUNCT.	BLOCK	
68	68		1911983-00	745133	NAND	GATE-POSITIVE	1	
69	69	SEE NOTE 93	1912048-06	DEC	7812	VOLT	REG, FIX +12V	
70	70		1912388-00	74502	NOR	GATE-QUAD	2IN, PO	
71	71		1912389-00	74508	AND	GATE-QUAD	2IN, PO	
72	72		1912541-00	79M05	VOLT	REG, FIX	-5V	
73	73		1912649-00	LS75	LATCH	4BIT,	BISTABLE	
74	74		1912746-00	DEC	74537	NAND	GATE-QUAD 2IN	

D	I	G	I	T	A	L	TITLE	PDP8 MOS MEMORY	SECTION C	OF C	SIZE	CODE	DOCUMENT NUMBER	REV
											K	PL	M8417-0-DBP	H

AUTOMATED BY PRTLST.2D(16)

PARTS LIST

SHEET C3 OF C3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER	VARIATION	REFERENCE DESIGNATOR
					AF	BF		
75	75		1912803-00	74LS04 INVERTER GATE, HEX	1	1		E52
76	76		1912824-00	LS74 FF-D DUAL, EDGE TRIGG	1	1		E40
77	77		2113735-01	*** THIS ITEM IS NOT USED ***	-	-		
78	78		2114114-01	*** THIS ITEM IS NOT USED ***	-	-		
79	79		2113914-01	*** THIS ITEM IS NOT USED ***	-	-		
80	80	SEE NOTE 91	2114475-01	*** THIS ITEM IS NOT USED ***	-	-		
81	81		9000024-01	EYELET, ROLL FLANGE .12100X .192	12	12		
82	82	USE WITH Q6, Q7, Q10	9006557-00	NUT KEP 4-40X 1/4 AF	3	3		
83	83	USE WITH Q11	9007254-00	TRANSIPADS #10146	1	1		
84	84	USE WITH Q6, Q7, Q10	9008301-01	SCREW PAN, PHIL 4-40X 1/4 SS	3	3		
85	85		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	6	6		W2, W3, W4, W9, W10, W11
86	86		9105740-55	WIRE(WRAP)30AWG ULI423	A/R	A/R		
87	87		2113789-01	4K MOS RAM 200NS 1	48	-		
			CONT		-	96		E100, E102, E104, E106, E108, E110, E112, E114, E116, E118, E120, E122, E200, E202, E204, E206, E208, E210, E212, E214, E216, E218, E220, E222, E300, E302, E304, E306, E308, E310, E312, E314, E316, E318, E320, E322, E400, E402, E404, E406, E408, E410, E412, E414, E416, E418, E420, E422, E100-E123, E200-E223, E300-E323, E400-E423

- 88 NOTE: M8417-AA=M8417-AB, AC, AD, AE, AF, (16KX12)
- 89 NOTE: M8417-BA=M8417-BB, BC, BD, BE, BF (32KX12)
- 90 NOTE: USED ON: OPTION/MODEL MS8-CA, MS8-CB
- 91 NOTE: R87, R92 MAY BE REMOVED AT MODULE TEST IF NEEDED.
- 92 NOTE: MIXING OF MOS RAMS IS NOT PERMITTED.
- 93 NOTE: REF ITEM #69 19-12048-05 ACCEPTABLE SUBSTITUTE FOR 19-12048-06.
- 94 NOTE: -----

D	I	G	I	T	A	L	TITLE	PDP8 MOS MEMORY	SECTION C OF C	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8417-0-DBP	H

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DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION					DATE 10/3/73	
TITLE MR8-F FIELD INSTALLATION AND ACCEPTANCE PROCEDURE						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	ECO CHANGE	MR8F-00001	ADAMS	1-74	<i>D. Adams</i>	2/27/74
B	UPDATE TO ADD PDP8A	MR8F-00004	REGAN	12-74	<i>R. Regan</i>	12/30/74

ENG	Richard Morris	APPD	<i>D. Adams</i>	10/11/73	SIZE	CODE	NUMBER	REV
					A	SP	MR8-F-2	B

DEC FORM NO.
DRA 107

SHEET 1 OF 3

ENGINEERING SPECIFICATION				CONTINUATION SHEET
TITLE MR8-F FIELD INSTALLATION AND ACCEPTANCE PROCEDURE				
<p>1. Shipping Hardware</p> <p>1.1 See A-PL-MR8-F-5 (Shipping List)</p> <p>2. Shipping Software</p> <p>2.1 See A-PL-MR8-F-6 (Software List)</p> <p>NOTE: Prom Diagnostics are not used in this Acceptance Procedure. These Maindecs are used to diagnose the MR8-FB after the MR8-FB has been programmed to the customers specifications.</p> <p>3. Equipment required for acceptance</p> <p>3.1 PDP8E, 8M, or 8A with a programmers console. If 4K of read/write memory is present, the system must have a KM8-E (M837), or KM8-A (M8317), extended memory control. All these options must be customer supplied.</p> <p>4. Unpacking and Installation</p> <p>4.1 Unpack and inspect the modules for physical damage.</p> <p>4.2 Make sure all four top edge connectors on the M8349 are fitted correctly.</p> <p>4.3 Turn power off in the PDP8E, 8M, 8F, or 8A.</p> <p>4.4 If the MR8-FB is a PDP8E, 8F, or 8M, add-on remove M8330 and insert the new M8330-YB in the same slot. The MR8-FB requires an M8330-YB in order to operate.</p> <p>4.5 Insert the M8349 in the OMNIBUS behind the RFI shield (M849) in the PDP8E, 8F, or 8M, and in the lowest available Omnibus slot in the PDP8A.</p> <p>4.6 Remove or disable all other options in PDP8E, 8M, 8F, or 8A that use the "SW" or "BOOT" switch option.</p>				
Sheet 2 of 3				REV B
SIZE	CODE	NUMBER	REV	
A	SP	MR8-F-2	B	

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE

MR8-F FIELD INSTALLATION AND ACCEPTANCE PROCEDURE

5. Acceptance

- 5.1 The MR8-FB is shipped with Prom Internal test Maindec-08-DHMRE programmed in the Prom chips.
- 5.2 Turn PDP8E, 8M, 8F, or 8A, power on.
- 5.3 If the MR8-FB is an add-on and an M8330-YB was installed, run all basic 8E diagnostics and EAE diagnostics if applicable.
- 5.4 Toggle "SW" or "BOOT" switch. The Prom Internal Test should be running. Refer to MAINDEC-08-DHMRE writeup if there are any errors. With the switch register = 0000 the test will halt in approx. 3 min. Repeat the test 4 times.
- 5.5 If no errors have occurred the MR8-FB is ready to be erased and reprogrammed by the customer.

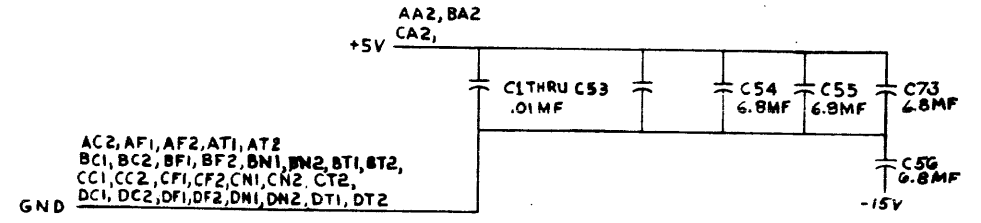
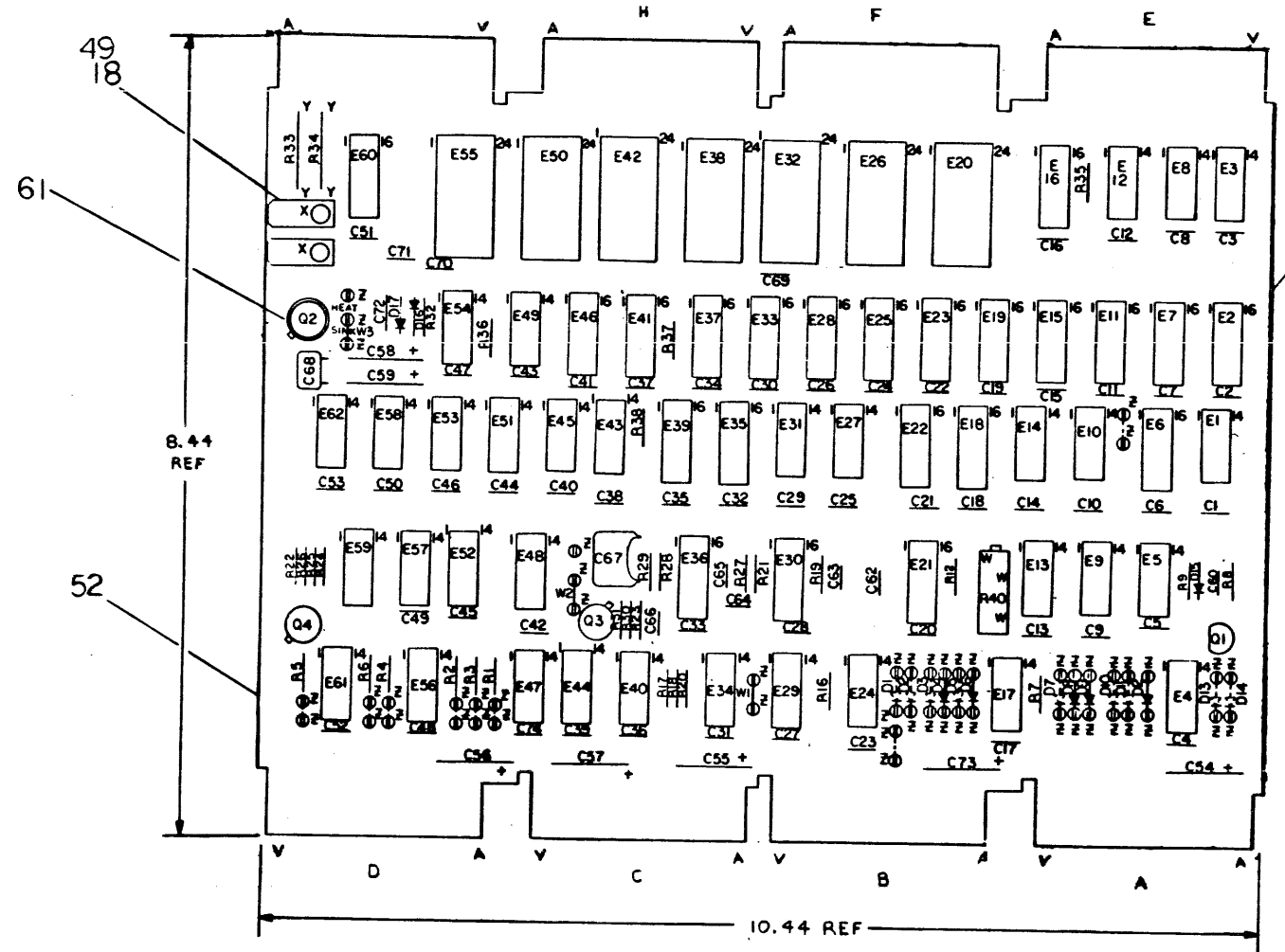
Sheet 3 of 3

SIZE
ACODE
SPNUMBER
MR8-F-2REV
B

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NOTES:

- JUMPERS IN FOR # OUT FOR 1
- DIODES ON OUTPUT OF INVERTERS ARE IN FOR 1
DIODES ON INPUT OF INVERTERS ARE IN FOR #
SOME DIODES ARE INSTALLED IN PRODUCTION TO FACILITATE CHECKOUT. A CUSTOMER WILL RE-ARRANGE DIODES TO HIS REQUIREMENTS
- DELAY OUTPUT IS ADJUSTED TO 2.2 S + 50 NS.
- DIODES AND JUMPERS SHOWN IN DOTTED LINES ARE NOT PUT ON THE BOARD DURING MANUFACTURE. THEY ARE ADDED DURING CHECKOUT AS REQUIRED. SOLID LINE JUMPERS ARE PUT IN WHEN BOARD IS ASSEMBLED.
- UNLESS OTHERWISE NOTED RESISTANCE IS IN OHMS 1/4W 5%.
- Y#1 JUMPER (ROM ADDRESS) IS ONLY INSTALLED IF THE PROM ADDRESSES OVERLAY CORE MEMORY ADDRESSES.
- UNLESS OTHERWISE SPECIFIED ALL DELAY TIMES ARE ± 20%.



DEC 1702A	-	12
DEC 5380	1	8
DEC 7384	1	8
DEC 74151	8	16
DEC 74123	8	16
DEC 74157	8	16
DEC 74174	8	16
DEC 74200	8	16
IC TYPE	GND	+5V

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

IC PIN LOCATIONS

REVISIONS

CHG#	CHANGE NO.	REV
1	ORIGINAL	A
2	...	B
3	...	C
4	...	D
5	...	E
6	...	F
7	...	G
8	...	H
9	...	I
10	...	J

QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1				C84	CAP 68 PF 100V 5% DM	1000014	5
1				C65	.047 CAP.	1009678	6
2	6	3	7	SEE Y VARIATION CHART	IC DEC 1702 A	23041A4	7
1				C86	CAP 1000 PF 100V 5% DM	1000042	8
1				C57	CAP 30 MF 10V 10% S.TANT	1000076	9
58				C1-C53, C69, C70, C71, C72, C74	CAP .01 MF 100V 20% DISC	1001610	10
1				C80	CAP 390 PF 100V 5% DM	1001631	11
1				C87	CAP 2700 PF 100V 5% DM	1001637	12
2				C83, C86	CAP 27 PF 100V 5% DM	1001730	13
6				C54, C56, C58, C59, C58, C73	CAP 6.8 MF 35V 10% S TANT	1005306	14
1				D15	DIODE DM82	1100113	15
6				D16, D4, D6, D8, D9, D12	DIODE DM84	1100114	16
1				D17	DIODE DM757A	1108880	17
2					FASTON TABS	9007112	18
2				R8, R28	RES 100 OHMS 1/4W 5%	1300228	19
1				R32	RES 220 OHMS 1/4W 5%	1300271	20
2				R24, R28	RES 470 OHMS 1/4W 5%	1300318	21
8				R7, R16, R17, R22, R36, R38	RES 1K OHMS 1/4W 5%	1300385	22
1				R35	RES 1.5K OHMS 1/4W 5%	1300391	23
1				R31	RES 2.2K OHMS 1/4W 5%	1300417	24
1				R10	RES 3K OHMS 1/4W 5%	1300432	25
1				R8	RES 3.3K OHMS 1/4W 5%	1300438	26
7				R1-R8, R12	RES 4.7K OHMS 1/4W 5%	1300447	27
3				R19, R21, R23	RES 10K OHMS 1/4W 5%	1300478	28
2				R20, R37	RES 15K OHMS 1/4W 5%	1300488	29
2				R25, R26	RES 27 OHMS 1/4W 10%	1301428	30
1				R27	RES 22K OHMS 1/4W 5%	1301808	31
1				R30	RES 270 OHMS 1/4W 5%	1301872	32
2				R33, R34	RES 4.7 OHMS 1W 5%	1304883	34
2				C3, C4	TRANSISTOR 3009B	1503100	35
1				Q1	TRANSISTOR 6531B	1508338	37
1				Q2	TRANSISTOR 3782	1508840	38
2				E29, E30	I.C. DEC 7474	1805547	39
1				E57	I.C. DEC 7400	1805575	40
2				E40, E58	I.C. DEC 7402	1808004	41
1				E12	I.C. DEC 74H00	1808056	42
1				E13	I.C. DEC 74H10	1808057	43
2				E9, E82	I.C. DEC 74H11	1808287	44
7				E14, E31, E44, E45, E47, E56, E81	I.C. DEC 8001	1808705	45
3				E1, E17, E40	I.C. DEC 74H04	1808831	46
1				SEE Y VARIATION CHART	I.C. DEC 74151	1808838	47
3				E49, E53, E54	I.C. DEC 7408	1810135	48
2					EYELETS-(6S-4-7)	9006732	49
5				E34, E32, E3, E5, E8	I.C. DEC 5380 (CAN USE 11300)	1810382 (1811113)	50
3	3	3	6	SEE Y VARIATION CHART	I.C. DEC 5384 (CAN USE 384)	1810394 (1809488)	51
56					SPLIT LUGS -4-7	9006735	52
3				E21, E30, E36	I.C. DEC 74123	1810438	53
2				E22, E38	I.C. DEC 74174	1810852	54
3				W1, W2, W3	BUS WIRE #22 AWG	9107560-01	55

FIRST USED ON OPTION MODEL: MR8-F

ETCH BOARD REV: C

DATE: 3-1-73

DATE: 1-1-73

DATE: 11/11/73

DATE: 12/18/73

digital EQUIPMENT CORPORATION
MAYFARL, MASSACHUSETTS

TITLE: PROM IK

SIZE CODE: DKS M8349-0-1

REV: F

SHEET 1 OF 7

SEMICONDUCTOR CONVERSION CHART

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SIZE CODE DCS M8349-0-1 2

QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
12				SEE Y VARIATION CHART	I.C. DEC 74200 (3100)	1810018-2	56
4				E8, E10, E36, E80	I.C. DEC 74157	1810055	57
1				.002	CAP 500PF 160V 5%	1000023	58
1				.100	RES. 10K POT 3/4 W 10%	1309143-10	59
1					HEAT SINK: TRANSISTOR	1210001	61
				REF	X-Y COORDINATE HOLE LOCATION	K-CO-M8349-0-4	62
				REF	ASSY/DRILLING HOLE LAYOUT	D-AH-M8349-0-5	63
				REF	ECO MODULE HISTORY	B-MH-M8349-0-6	64
1					ETCH CIRCUIT BOARD	5010426	65

M8349-YA
M8349-YC
M8349-YD

Y VARIATION CHART

COMPONENTS	M8349 YA	M8349 YC	M8349 YD	M8349
I.C. DEC 1702A	E26, E50	E26, E32, E38, E42, E50, E55	E26, E32, E50	E20, E26, E32, E38, E42, E50, E55
I.C. DEC 5384	E4, E24, E51	E4, E24, E51	E4, E24, E51	E4, E10, E24, E27, E43, E51
JUMPER YA1 SEE NOTE 6	IN	IN	IN	OUT
JUMPER YA2	IN	IN	IN	OUT
I.C. DEC 74151	0	0	0	E16
I.C. DEC 74200	0	0	0	E2, E7, E11, E15, E19, E23, E25, E28, E33, E37, E41, E46

* DIODE & JUMPER SETTINGS FOR ADDRESS DEFINITIONS

MEMORY FIELD SELECT	DIODE					
	D3	D4	D5	D6	D9	D10
0	1	-	1	-	-	1
1	-	1	1	-	-	1
2	1	-	1	-	1	-
3	-	1	1	-	1	-
4	1	-	-	1	-	1
5	-	1	-	1	-	1
6	1	-	-	1	1	-
7	-	1	-	1	1	-

FIRST MEMORY ADDRESS	DIODE			
	D7	D8	D11	D12
0000	-	1	-	1
2000	1	-	-	1
4000	-	1	1	-
6000	1	-	1	-

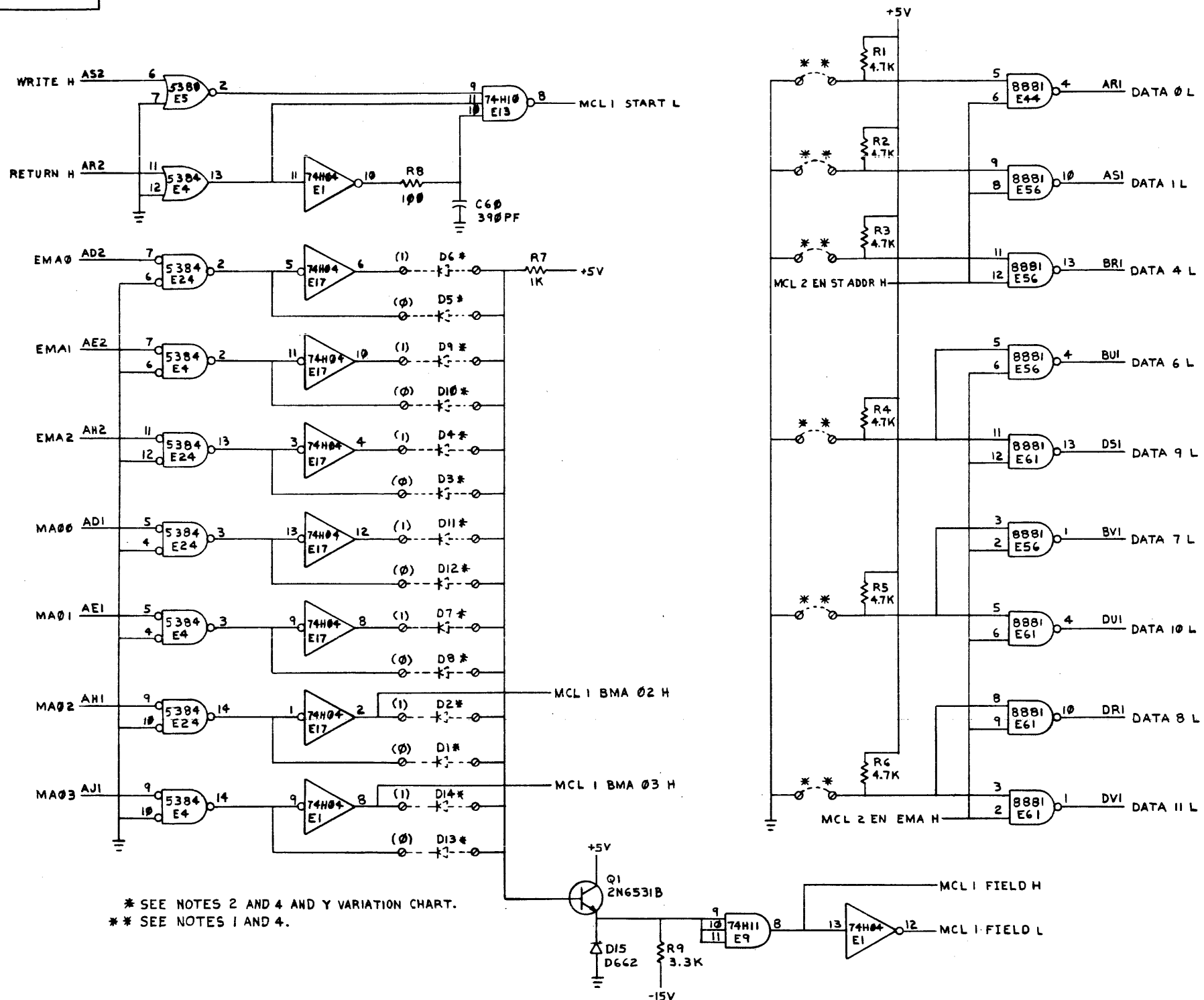
STARTING MEMORY ADDRESS	JUMPERS BELOW		
	R1	R2	R3
0000	1	1	1
0200	1	1	-
2000	1	-	1
2200	1	-	-
4000	-	1	1
4200	-	1	-
6000	-	-	1
6200	-	-	-

* 1 = DIODE OR JUMPER IN
- = DIODE OR JUMPER OUT

"SW" OR "BOOT" FIELD SELECT	JUMPER BELOW		
	R4	R5	R6
0	1	1	1
1	1	1	-
2	1	-	1
3	1	-	-
4	-	1	1
5	-	1	-
6	-	-	1
7	-	-	-

REVISIONS		
CHK	CHANGE NO.	REV.

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* SEE NOTES 2 AND 4 AND Y VARIATION CHART.
 ** SEE NOTES 1 AND 4.

SW. STARTING ADDRESS

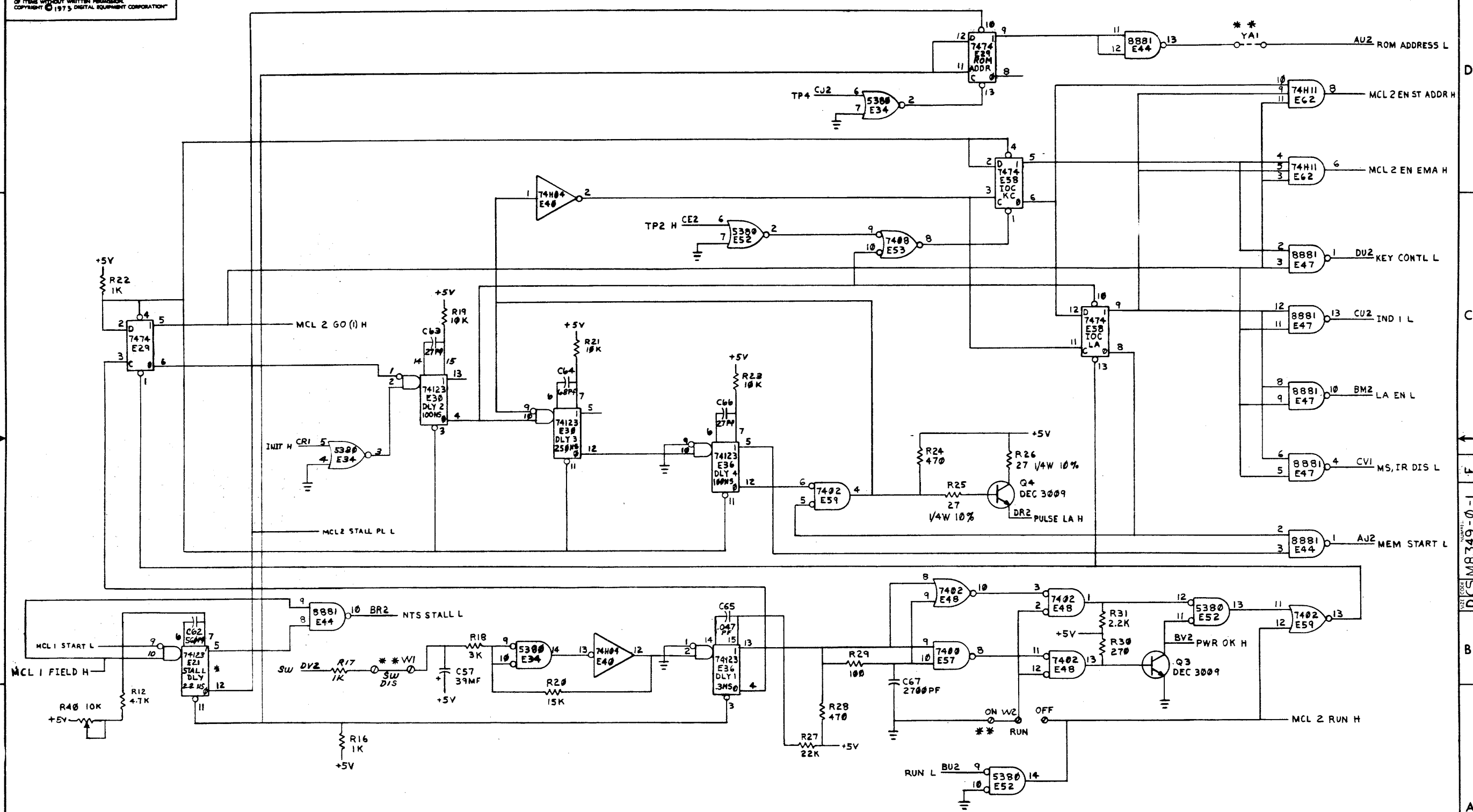
SW. FIELD SELECTION (IF AND DF)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PROM 1K (MCL1)	SIZE CODE	D CS	NUMBER	M8349-0-1	REV.	F
SCALE	---	SHEET	3 OF 7	DIST.			

DCS M8349-0-1 F

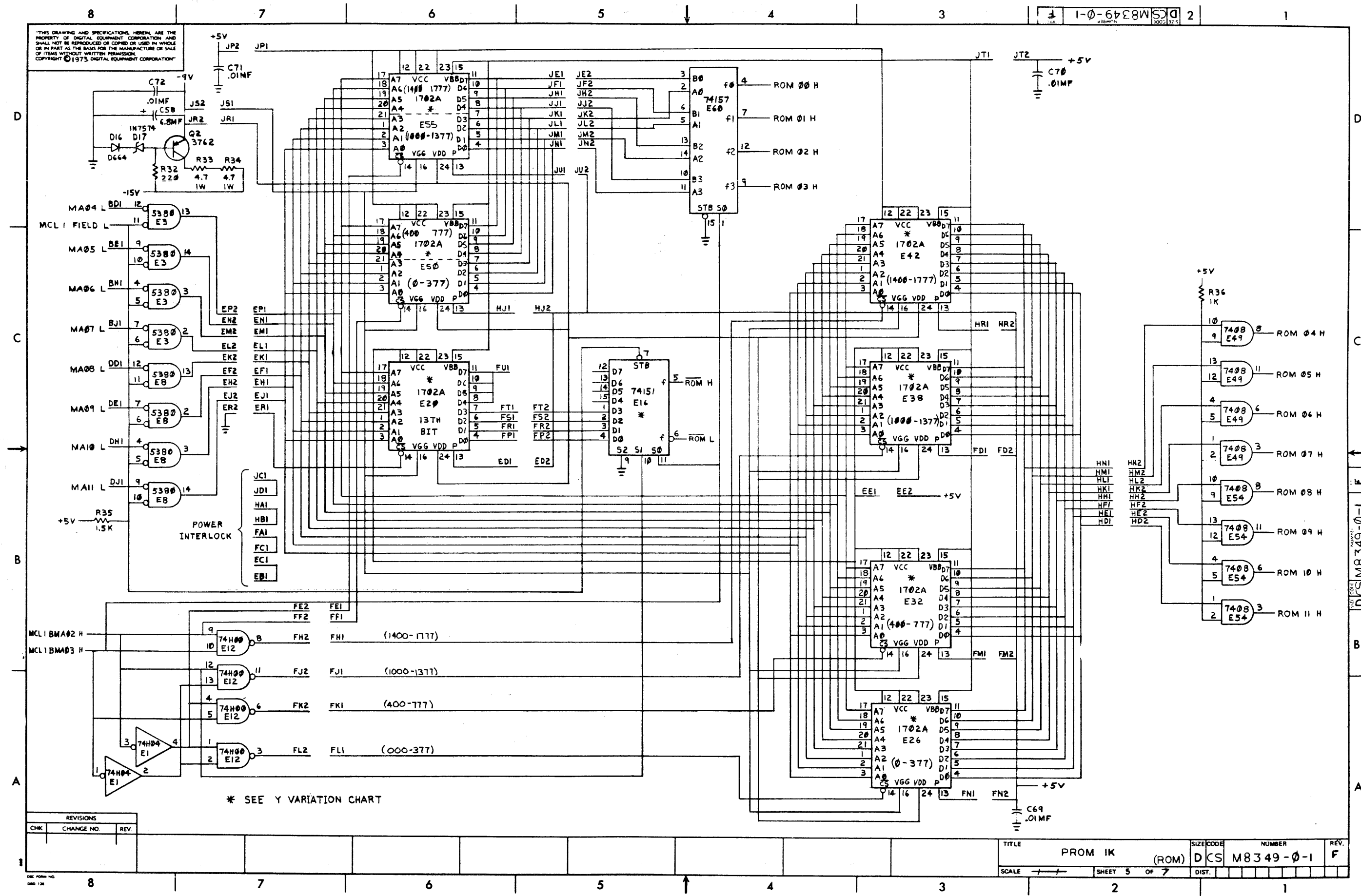
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* SEE NOTE 3
 ** SEE NOTE 4

REVISIONS		
CHK	CHANGE NO.	REV.

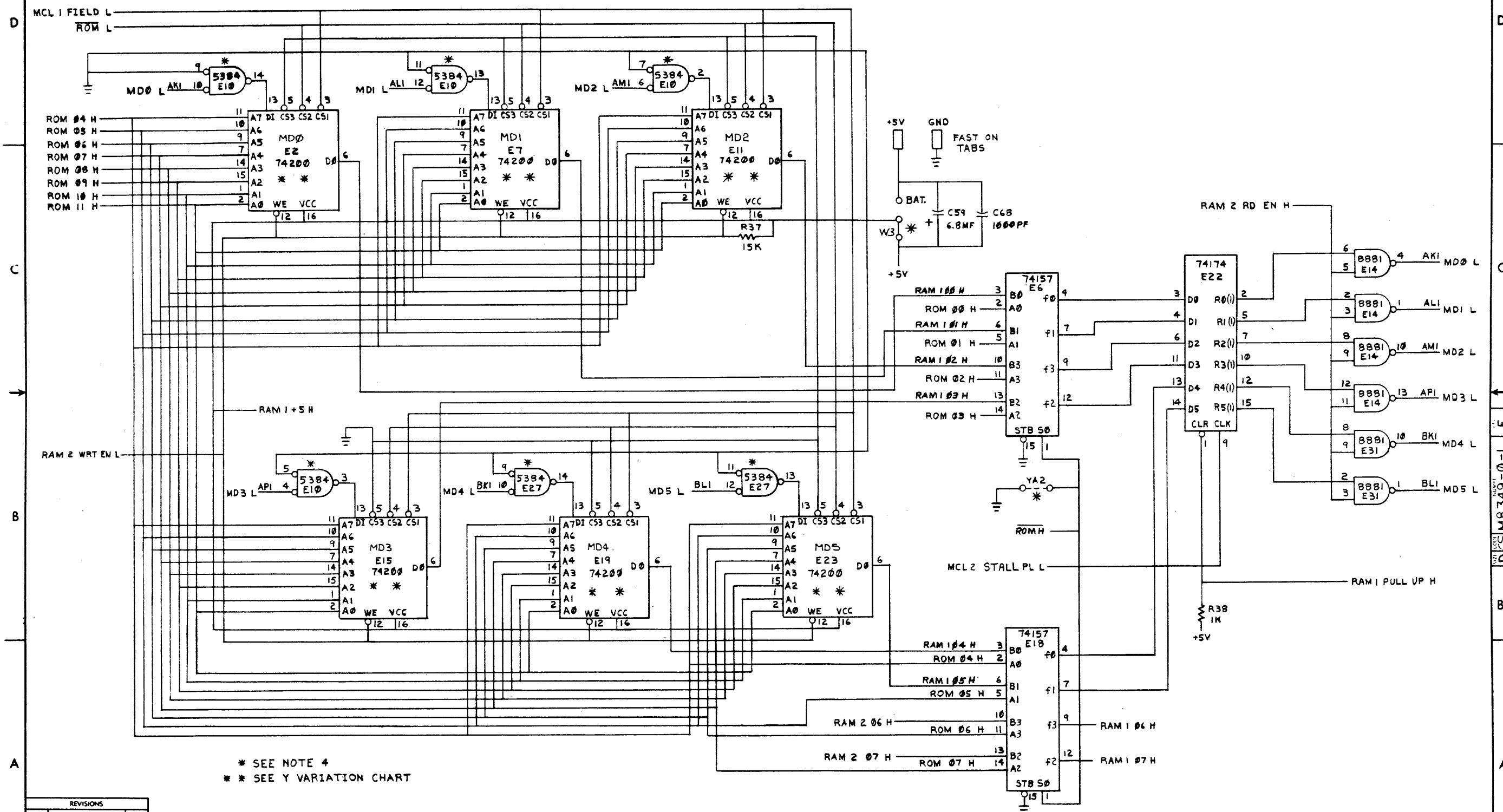
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PROM 1K (ROM)	SIZE CODE	DCS	NUMBER	M8349-0-1	REV.	F
SCALE	+	SHEET	5	OF	7	DIST.	

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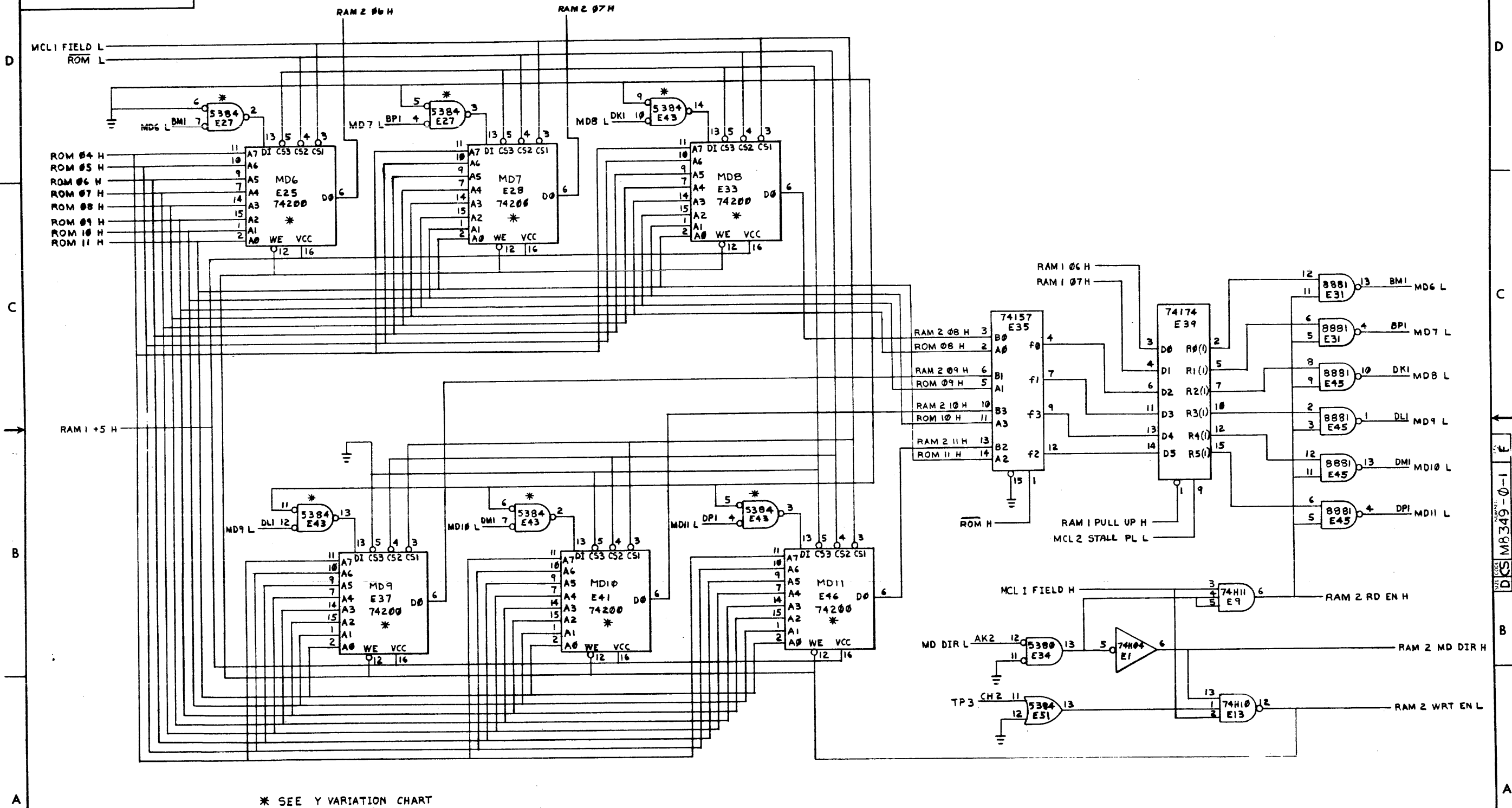


* SEE NOTE 4
 ** SEE Y VARIATION CHART

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PROM 1K (RAM 1)	SIZE CODE	D CS	NUMBER	M8349-0-1	REV.	F
SCALE	1:1	SHEET	6 OF 7	DIST.			

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* SEE Y VARIATION CHART

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	PROM 1K (RAM 2)	SIZE CODE	DCS	NUMBER	M8349-0-1	REV.	1
SCALE	1/1	SHEET	7	OF	7	DIST.	

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M8311-YA
M8311-YB
M8311-YC
M8311-YD
M8311-YE
M8311-YF
M8311-YH
M8311-YJ

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	REF DESIGNATION	DESCRIPTION	PART NO	REV NO
-	-	-	-	24	-	-	-	E30, E31, E35, E36, E39, E40, E45, E46, E49, E50, E54, E55	IC DEC 2102-1	2111318-0-1	24
-	-	-	12	-	-	-	-	E58, E59, E83, E84, E87, E88, E73, E74, E77, E78, E82, E83	HANDLE FLIP CHIP MAGENTA	9008337-06	25
3	3	3	3	3	3	3	3	E8	EYELET GS4-7	9008750	26
8	8	8	8	8	8	8	8	W1-W5	IC DEC 8223 OR EQUIVALENT	23083A1	27
1	1	1	1	1	1	1	1		INSULATED JUMPER	9008185	28
5	5	5	5	5	5	5	5	C04, C05, C06	CAP 0.05 MF 35% 10% TAPT	1C05306	29
3	3	3	3	3	3	3	3	R21-R29, R32-R35, R38	RES. 3.3K 1/4W 5%	1300439	30
14	14	14	14	14	14	14	14	R44	SPACER (CABLE CLAMP)	1202704	31
3	3	3	3	3	3	3	3	E25	RES. 399 1/4W 5%	1300308	32
1	1	1	1	1	1	1	1		CRYSTAL OSCILLATOR 10 MHZ	1811660-01	33

SWITCH DEFINITIONS

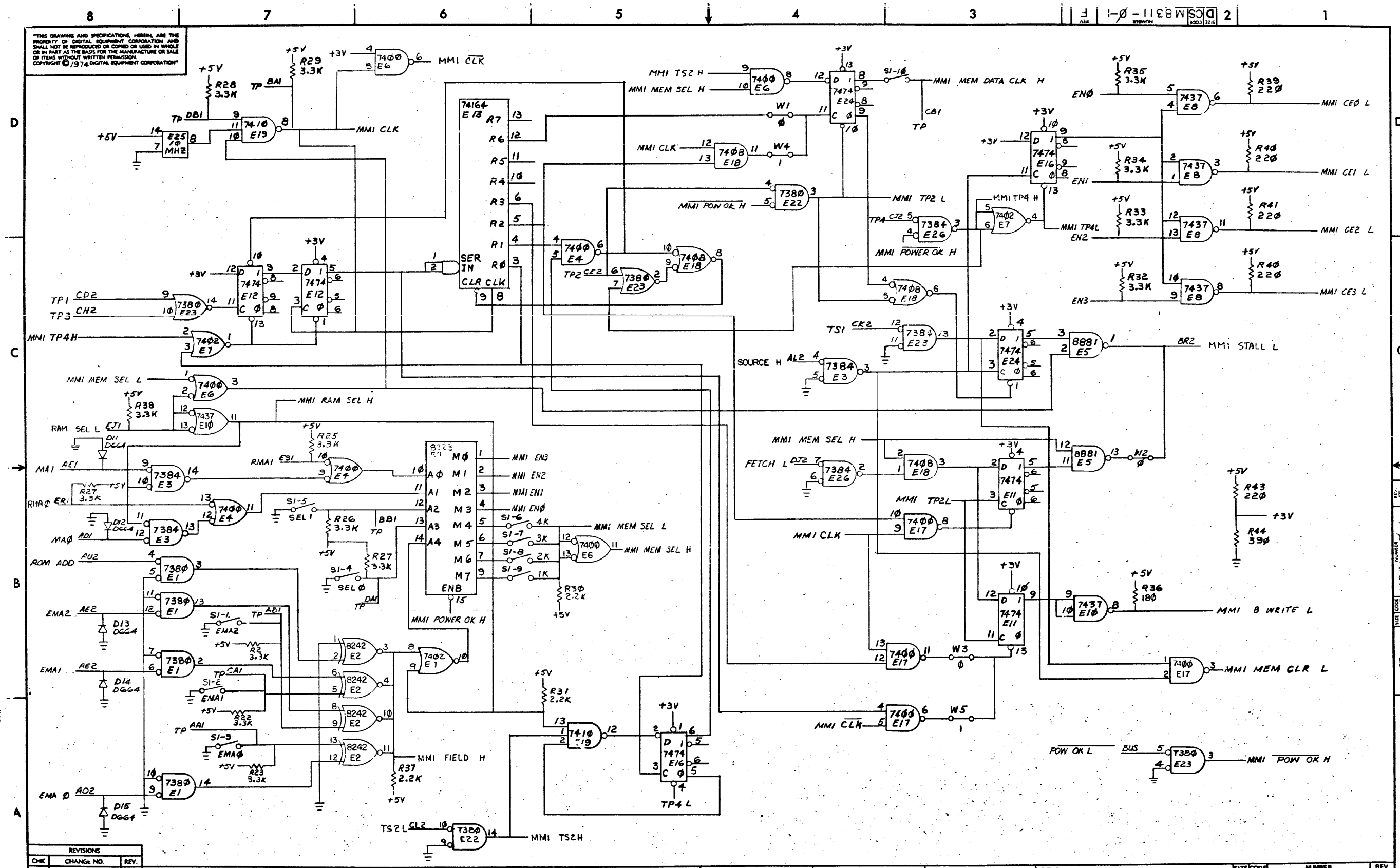
SWI-1	EMA2	FIELD SELECTION 'ON' IS 0
SWI-2	EMA1	
SWI-3	EMA0	
SWI-4	SEL0	STARTING ADDRESS SELECT 'ON' IS 0
SWI-5	SEL1	
SWI-6	4K	MEMORY SIZE SELECT CORRECT SIZE - 'ON' OTHERS - 'OFF'
SWI-7	3K	
SWI-8	2K	
SWI-9	1K	
SWI-10		USED FOR TEST ONLY, ALWAYS 'ON'

JUMPER CONFIGURATION

YA, YB, YC AND YD -- W1, W2, W3 ARE IN	W4 AND W5 ARE OUT
YE, YF, YH AND YJ -- W4 AND W5 ARE IN	W1, W2 AND W3 ARE OUT

REVISIONS		
CHK	CHANGE NO	REV

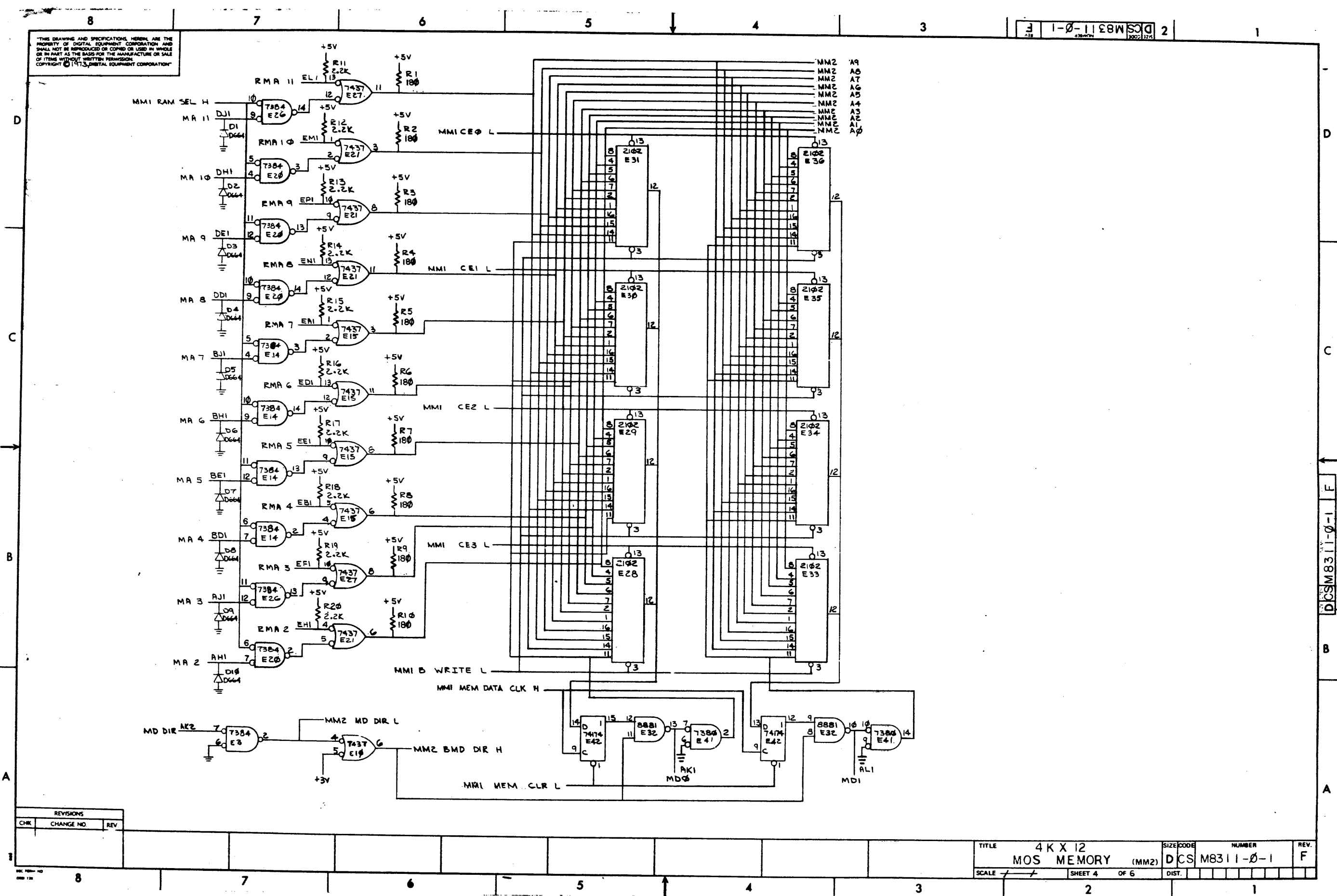
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	4K X 12 MOS MEMORY (M.M.I)	SIZE CODE	D CS	NUMBER	M8311-0-1	REV.	F
SCALE		SHEET	3	OF	6	DIST.	

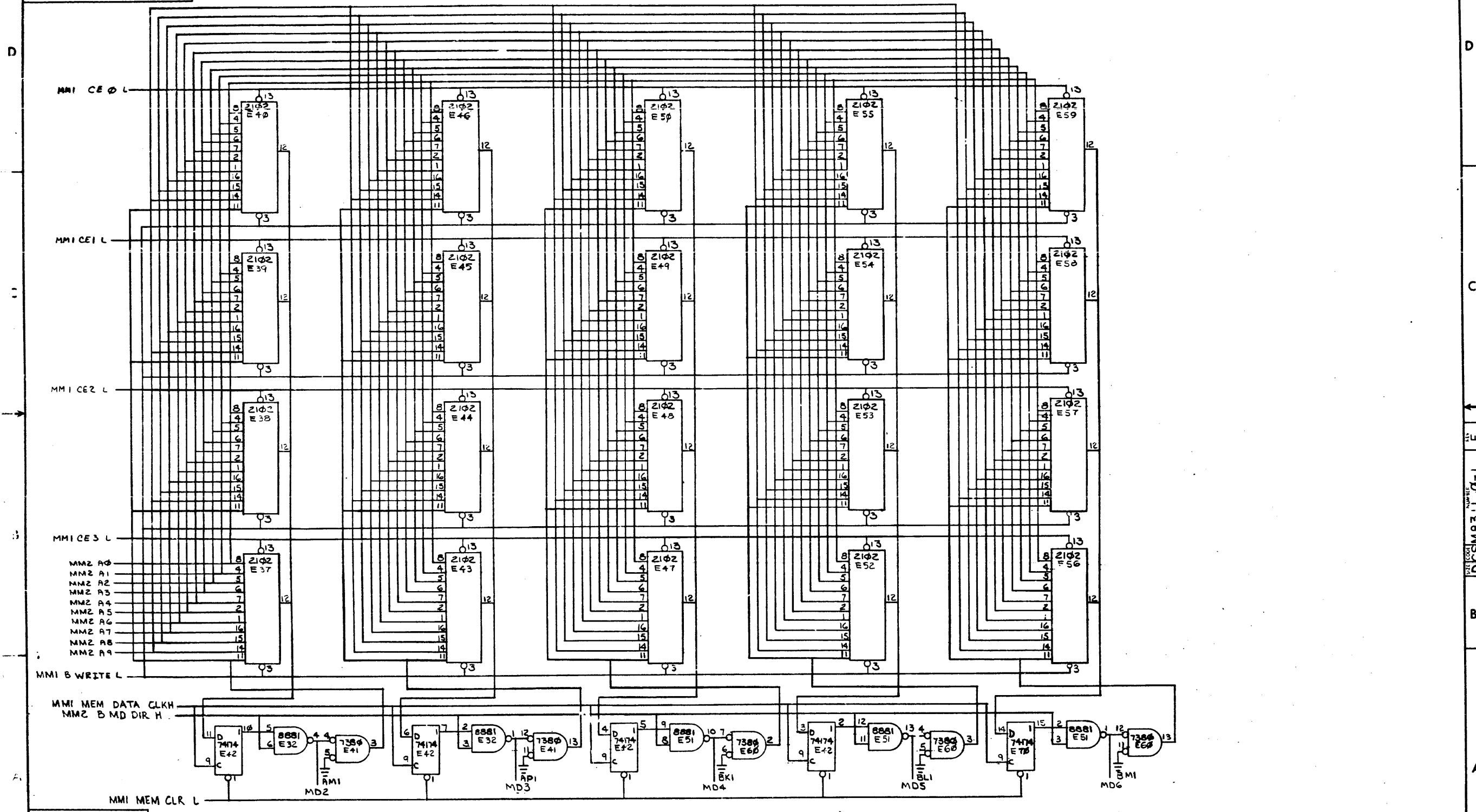
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REVISIONS		
CHR	CHANGE NO	REV

TITLE	4K X 12 MOS MEMORY (MM2)	SIZE CODE	DCS	NUMBER	M8311-0-1	REV.	F
SCALE	1/1	SHEET	4	OF	6	DIST.	

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	4K X 12 MOS MEMORY (MM3)	SIZE CODE	NUMBER	REV.
SCALE	NONE	SHEET	5 OF 6	F
DIST.				

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