digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE	
DRAWING DIRECTORY 11/Ø3	B-DD-11/Ø3-Ø
UNIT ASSY 11/Ø3	E-UA-11/Ø3-Ø-Ø
MODULE UTILIZATION	C-MU-11/Ø3-Ø-3
MODULE UTILIZATION	C-MU-11/Ø3-Ø-4
MODULE UTILIZATION	C-MU-11/Ø3-Ø-5
DRAWING DIRECTORY KD11-F	B-DD-KD11-F
DRAWING DIRECTORY KD11-H	B-DD-KD11-H
DRAWING DIRECTORY KD11-J	B-DD-KD11-J
PROC/4K CORE MEMORY	A-PL-KD11-J-Ø
DRAWING DIRECTORY (COMPLETE SET)	B-DD-MMV11-A
DRAWING DIRECTORY	B-DD-KD11-L
PROC/4K RAM MEM & KEV11	C-UA-KD11-L-Ø
DRAWING DIRECTORY (COMPLETE SET)	B-DD-KEV11-Ø
DRAWING DIRECTORY	B-DD-KD11-M
PROC/4K CORE MEM & KEV11	C-UA-KD11-M-Ø
DRAWING DIRECTORY KD11-R	B-DD-KD11-R
DRAWING DIRECTORY KD11-S	B-DD-KD11-S
DRAWING DIRECTORY MSV11-C (COMPLETE SET)	B-DD-MSV11-C
DRAWING DIRECTORY	B-DD-DLV11-Ø
DRAWING DIRECTORY	B-DD-BA11-M
FRAME & P.S. (H927Ø-A & H78Ø)	D-AD-7011841-0-0
DRAWING DIRECTORY	B-DD-H927Ø-A
FRAME ASSY	D-UA-H927Ø-A-Ø
DRAWING DIRECTORY	B-DD-H927Ø-Ø
DRAWING DIRECTORY (COMPLETE SET)	B-DD-H78Ø-Ø
SOFTWARE LIST	A-PL-11/Ø3-Ø-2
SHIPPING LIST	A-PL-11/Ø3-Ø-1

SEQUENCE

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1			
11/Ø3-AA	KD11-F, BA11-MA, DLV11, 115V	X			
11/Ø3-AB	KD11-F, BA11-MB, DLV11, 230V	X			
11/Ø3-BA	KD11-J, BA11-MA, DLV11, 115V	X			
11/Ø3-BB	KD11-J, BA11-MB, DLV11, 230V	X			
11/Ø3-CA	KD11-L, BA11-MA, DLV11, 115V	X			
11/Ø3-CB	KD11-L, BA11-MB, DLV11, 230V	X			
11/Ø3-DA	KD11-M, BA11-MA, DLV11, 115V	X			
11/Ø3-DB	KD11-M, BA11-MB, DLV11, 230V	X			
11/Ø3-EA	KD11-F, BA11-MA, 115V	X			
11/Ø3-EB	KD11-F, BA11-MB, 230V	X			
11/Ø3-FA	KD11-J, BA11-MA, 115V	X			
11/Ø3-FB	KD11-J, BA11-MB, 230V	X			
11/Ø3-GA	KD11-L, BA11-MA, 115V	X			
11/Ø3-GB	KD11-L, BA11-MB, 230V	X			
11/Ø3-HA	KD11-M, BA11-MA, 115V	X			
11/Ø3-HB	KD11-M, BA11-MB, 230V	X			
11/Ø3-KA	KD11-R, BA11-MA, 115V	X			
11/Ø3-KB	KD11-R, BA11-MB, 230V	X			
11/Ø3-MA	KD11-S, BA11-MA 115V	X			
11/Ø3-MB	KD11-S BA11-MB 230V	X			

REVISIONS

REV	CHG. NO.	DATE
	REVISED & REDRAWN	
D	11/Ø3-5	3-77
E	11/Ø3-6	3-77
F	11/Ø3-7	8-77

USED ON OPTION/MODEL	
LSI-11	

SHEET 1 OF 3

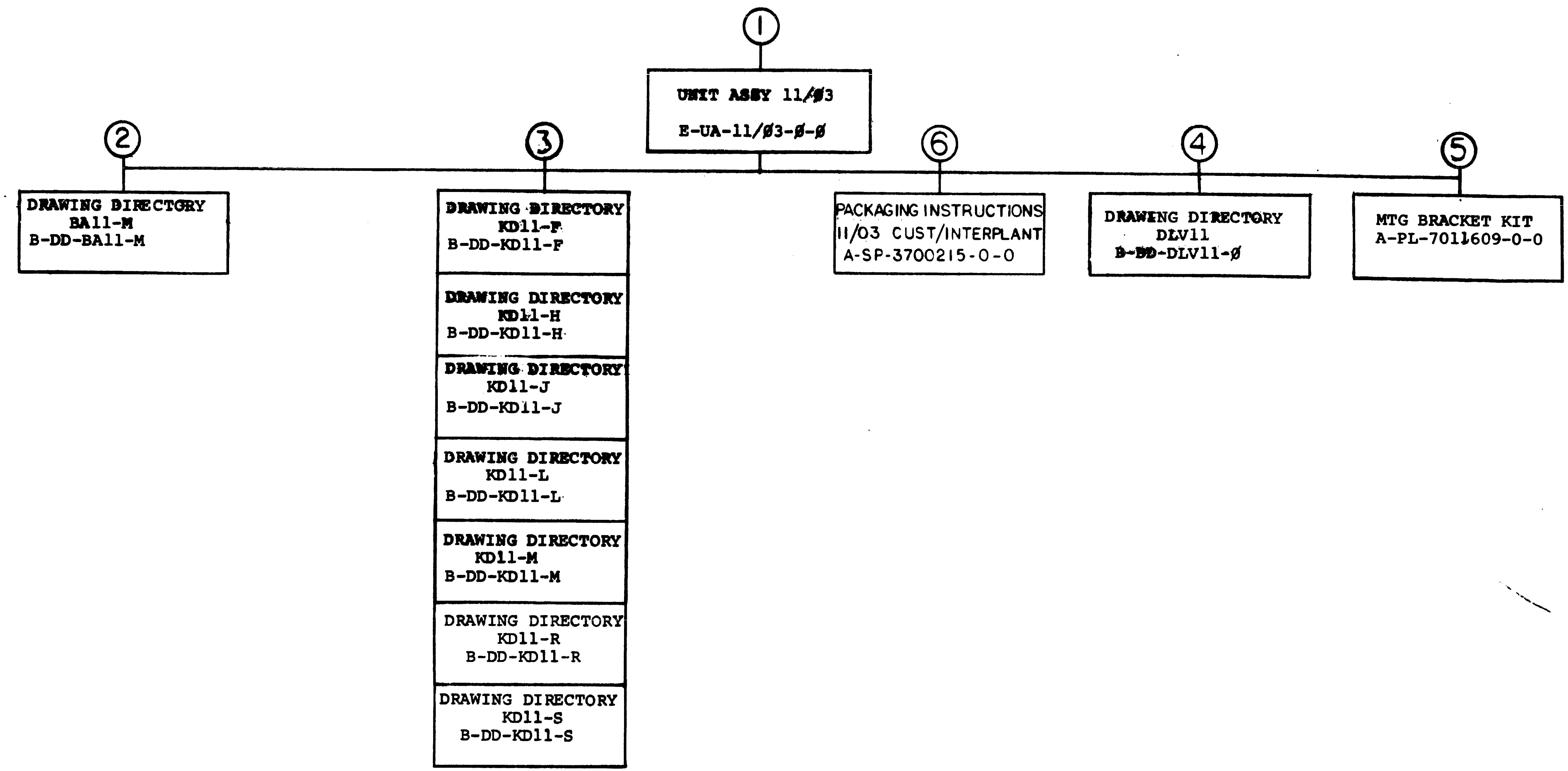
		DATE
DRN.	R. RILEY	7/14/75
CHK'D.	D. HEALY	9/10/75
PROJ ENG.	A. COHAN	10-16-75
PROD.	D. DEROME	10-16-75
FIELD SERV.	J. CARLSON	10-16-75

TITLE DRAWING DIRECTORY PDP 11/Ø3

SIZE	CODE	NUMBER	REV
B	DD	11/Ø3-Ø	F

DIST

DRB 106



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY PDP 11/03	2 OF 3	B	DD	11/Ø3-Ø	F

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET 1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X					1	E-UA-11/Ø3-Ø-Ø	#	1	UNIT ASSY 11/Ø3	
X						C-MU-11/Ø3-Ø-3	#	1	MODULE UTILIZATION	
X						C-MU-11/Ø3-Ø-4	#	1	MODULE UTILIZATION	
X						A-PL-11/Ø3-Ø-1	#	2	SHIPPING LIST	
X						A-PL-11/Ø3-Ø-2	#	2	SOFTWARE LIST	
						C-MU-11/Ø3-Ø-5	#	1	MODULE UTILIZATION	
C					2	B-DD-BA11-M	#	3	DRAWING DIRECTORY BA11-M	
C					3	B-DD-KD11-F	#	2	DRAWING DIRECTORY KD11-F	
C						B-DD-KD11-H	#	2	DRAWING DIRECTORY KD11-H	
X						B-DD-KD11-J	#	2	DRAWING DIRECTORY KD11-J	
X						B-DD-KD11-L	#	2	DRAWING DIRECTORY KD11-L	
X						B-DD-KD11-M	#	2	DRAWING DIRECTORY KD11-M	
X						B-DD-KD11-R	#	2	DRAWING DIRECTORY KD11-R	
X						B-DD-KD11-S	#	2	DRAWING DIRECTORY KD11-S	
C					4	B-DD-DLV11-Ø	#	2	DRAWING DIRECTORY DLV11	

MECHANICAL (SECTION 2)

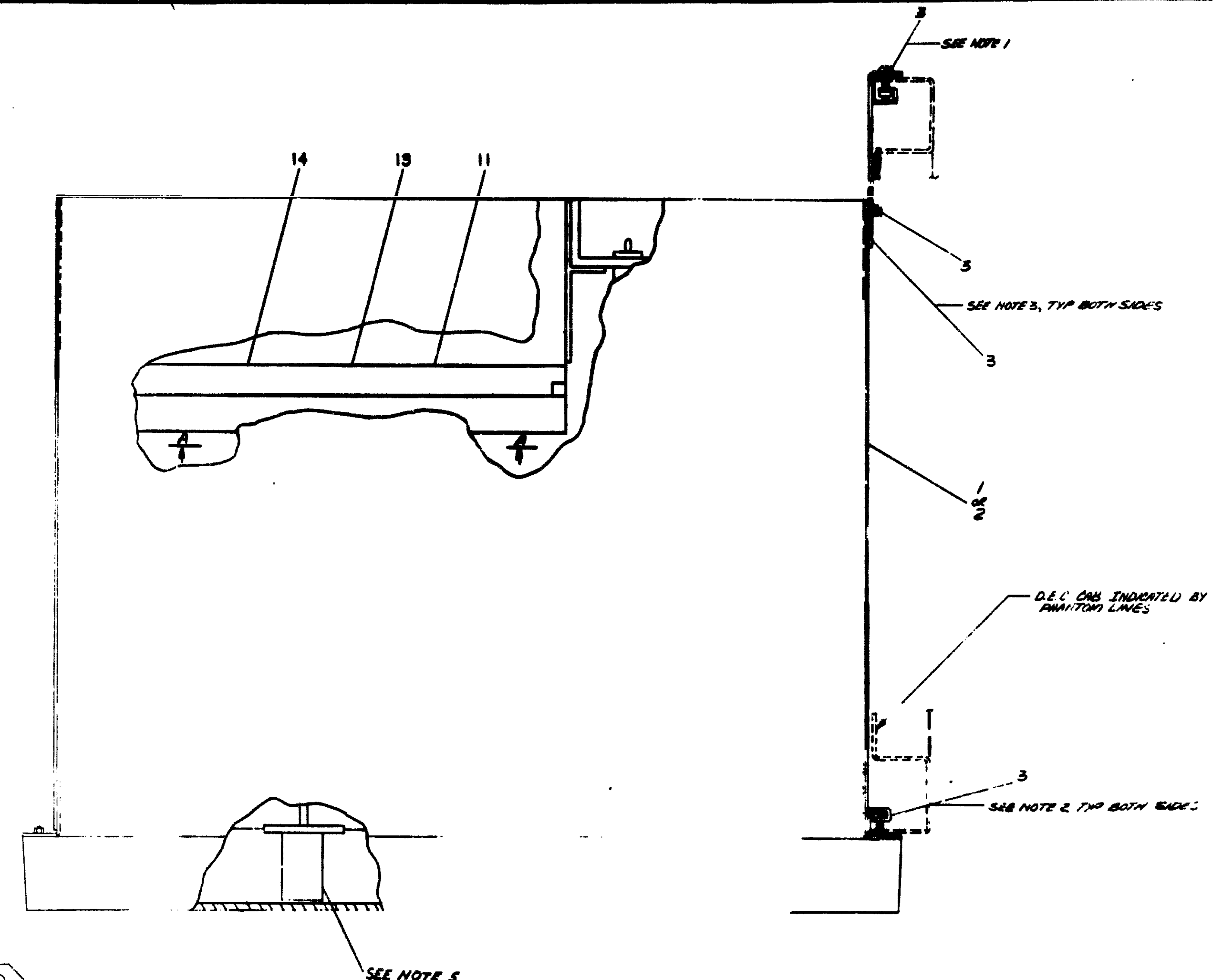
CUSTOMER PRINT SET				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					1	E-UA-11/Ø3-Ø-Ø		1	UNIT ASSY 11/Ø3	
					2	B-DD-BA11-M		3	DRAWING DIRECTORY BA11-M	
					3	B-DD-KD11-F		2	DRAWING DIRECTORY KD11-F	
						B-DD-KD11-H		2	DRAWING DIRECTORY KD11-H	
						B-DD-KD11-J		2	DRAWING DIRECTORY KD11-J	
						B-DD-KD11-L		2	DRAWING DIRECTORY KD11-L	
						B-DD-KD11-M		2	DRAWING DIRECTORY KD11-M	
						B-DD-KD11-R		2	DRAWING DIRECTORY KD11-R	
						B-DD-KD11-S		2	DRAWING DIRECTORY KD11-S	
					4	B-DD-DLV11-Ø		2	DRAWING DIRECTORY DLV11	
					5	A-PL-7011609-0-0		1	MTG BRKT KIT	
						C-MD-7414417-0-0		1	BRKT, SUPPORT REAR	
				X	6	A-SP-3700215-0-0		3	PACK INST CUST/INTERPLANT 11/03	
						A-PS-9905832-0-0			REGULAR SLOTTED CARTON	
						A-PS-9905834-0-0			LAMINATED BUILDUP	
						A-PS-9905129-0-0			POLY BAG	
						A-PS-9905729-0-0			CARTON SEALING TAPE	
						A-PS-9905831-0-0			REGULAR SLOTTED CARTON	
						A-PS-9905833-0-0			SCORED SHEET	

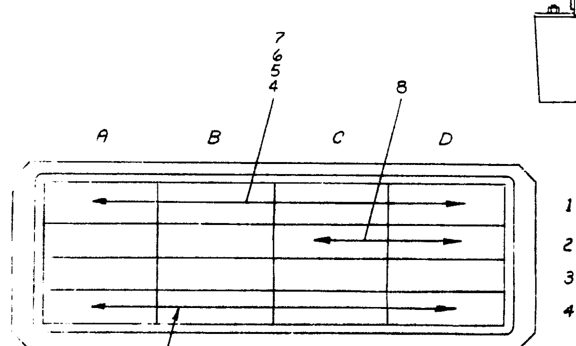
CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY 11/Ø3	3 OF 3	B	DD	11/Ø3-Ø	F

LEGEND	
NUMBER	VARIATION
11/Ø3-AA	KD11-F, BA11-MA, DLV11 115V
11/Ø3-AB	KD11-F, BA11-MB, DLV11 230V
11/Ø3-BA	KD11-J, BA11-MA, DLV11 115V
11/Ø3-BB	KD11-J-BA11-MB, DLV11 230V
11/Ø3 CA	KD11-L, BA11-MA, DLV11 115V
11/Ø3-CB	KD11-L, BA11-MB, DLV11 230V
11/Ø3-DA	KD11-M, BA11-MA, DLV11 115V
11/Ø3-DB	KD11-M, BA11-MA, DLV11 230V
11/Ø3-EA	KD11-F, BA11-MA 115V
11/Ø3-EB	KD11-F, BA11-MB 230V
11/Ø3-FA	KD11-J, BA11-MA 115V
11/Ø3-FB	KD11-J, BA11-MB 230V
11/Ø3-GA	KD11-L, BA11-MA 115V
11/Ø3-GB	KD11-L, BA11-MB 230V
11/Ø3-HA	KD11-M, BA11-MA 115V
11/Ø3-HB	KD11-M, BA11-MB 230V
11/Ø3-KA	KD11-R, BA11-MA 115V
11/Ø3-KB	KD11-R, BA11-MB 230V
11/Ø3-MA	KD11-S, BA11-MA 115 V
11/Ø3-MB	KD11-S, BA11-MB 230 V

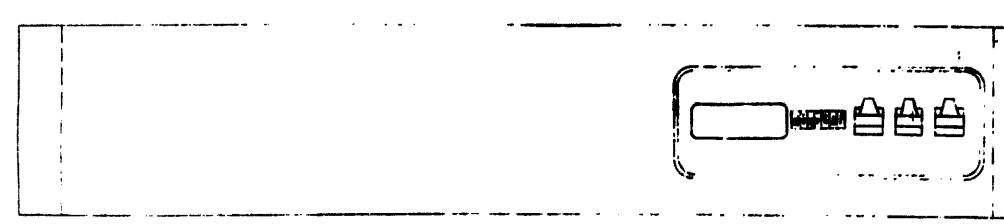
NOTES:
1. TO BE INSTALLED BY CUSTOMER. TYP BOTH SIDES.
2. REMOVE BEZEL FROM FRONT OF ITEM #1 OR 2. REMOVE 2 NUTS ON EACH SIDE (FRONT ONLY) & REPLACE WITH NUT #10-32 (D.E.C CAB) PART OF ITEM #3 KIT.
3. ATTACH MTG. BRKT, PART OF ITEM #3 (REAR ONLY).
4. FOR MODULE UTILIZATION SEE C-MU-11/Ø3-Ø-3, C-MU-11/Ø3-Ø-4 & C-MU-11/Ø3-Ø-5
5. ASSEMBLE MODULE HOLDER ASSEMBLY SUPPLIED IN UA-BA11M TO MODULES AS SHOWN.





VIEW A-A
(MODULE SIDE)
ONLY BACKPLANE SHOWN PART OF ITEM #1 OR #2

MMV11-A
(PART OF ITEMS #5 & #7)



DESCRIPTION	DIG. PART NO.	ITEM NO.
PROC/16K MEM/KEV11F	C-UA-KD11-S-Ø	9
MODULE UTILIZATION	C-MU-11/Ø3-Ø-5	[illegible]
PROC/4K MOS MEM	[illegible]-R-Ø	[illegible]
PACK INST. CUST/INTERPLANT H/C	[illegible]	[illegible]
~~MODULE CLAMP~~	~~1219856-2~~	[illegible]
SERIAL NO. TAG	3613210	[illegible]
PATENT DECAL (PDP-11)	7409479-00	[illegible]
~~[illegible]~~	~~[illegible]~~	[illegible]
UL DECAL	7410197-0-2	[illegible]
MODULE UTILIZATION	[illegible]	[illegible]
MODULE UTILIZATION	C-MU-11/[illegible]	9
SERIAL LINE UNIT M7940	A-M-[illegible]	8
4K CORE CONFIG/KEV11	C-UA-KD11-M-Ø	7
4K RAM CONFIG/KEV11	C-UA-DIL-L-Ø	6
PROC/4K CORE MEMORY	A-PL-KD11-J-Ø	5
PROC/4K RAM MEMORY	A-PL-KD11-F-Ø	4
MTG. BRKT. KIT	A-PL-7014099-0	3
BOX / FRAME + P.S. ASSY 230V	E-UA-BA11-MB-Ø	2
BOX / FRAME + P.S. ASSY 115V	E-UA-BA11-MA-Ø	1

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FIRST USED ON 11/03

TITLE: UNIT ASSEMBLY 11/03

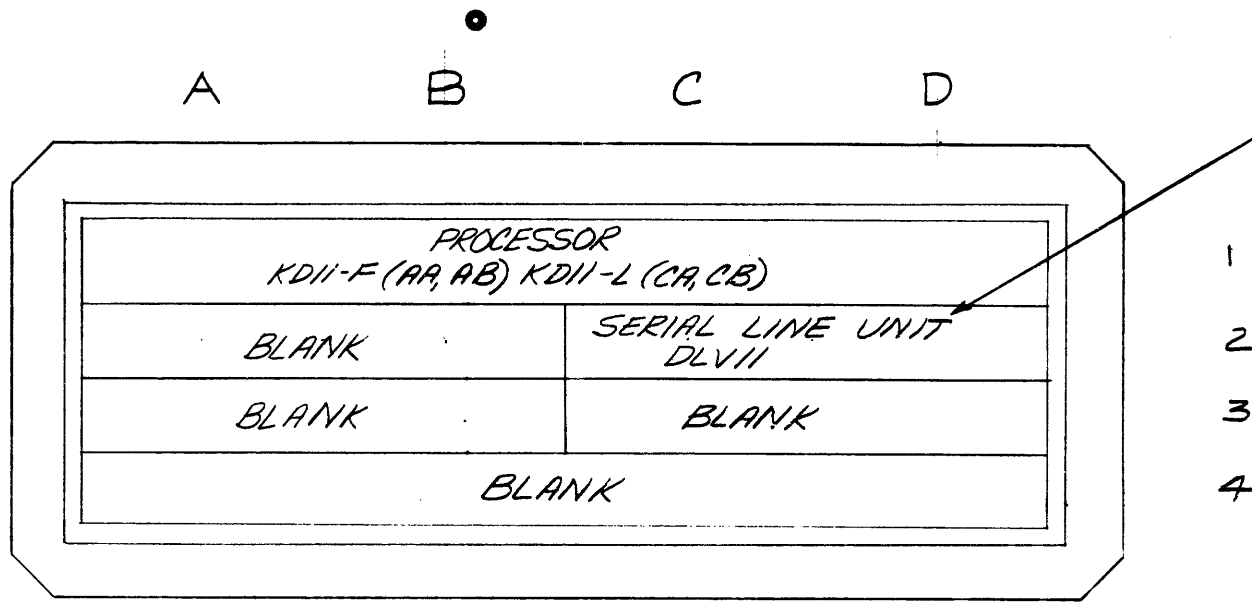
B-DD-11/03-0

SCALE NONE

SHEET 1 OF 1

SIZE B CODE UA NUMBER 11/03-0-0 REV F

NOTES:
1. THIS MODULE UTILIZATION WILL BE USED FOR: 11/Ø3-AA, 11/Ø3-AB, 11/Ø3-CA, 11/Ø3-CB, 11/Ø3-EA, 11/Ø3-EB, 11/Ø3-GA, 11/Ø3 GB
2. 11/Ø3-EA, 11/Ø3-EB, 11/Ø3-GA, AND 11/Ø3-GB DO NOT INCLUDE DLV-11.



VIEW FROM MODULE SIDE OF BACKPLANE

REVISIONS		
REV.	CHANGE NO.	CHK
A	11/Ø3-00001 J. BIRO 12-Nov-75 25 NOV 75	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/Ø3	PARTS LIST			

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X,XX = ± 0,18 X,X = ± 0,5 X = ± 2,	.XXX = ± .005 .XX = ± .02 .X = ± .1	±0° 30'

THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL —//—
FINISH —//—

	DATE
DRN.	9 SEPT 75
CHK'D.	
ENG.	9/23/75
PROJ. ENG.	9/23/75
PROD.	9/17/75

NEXT HIGHER ASSY. B-DD-11/Ø3-Ø
SCALE —//—
SHEET 1 OF 1

digital

TITLE MODULE UTILIZATION (11/Ø3)

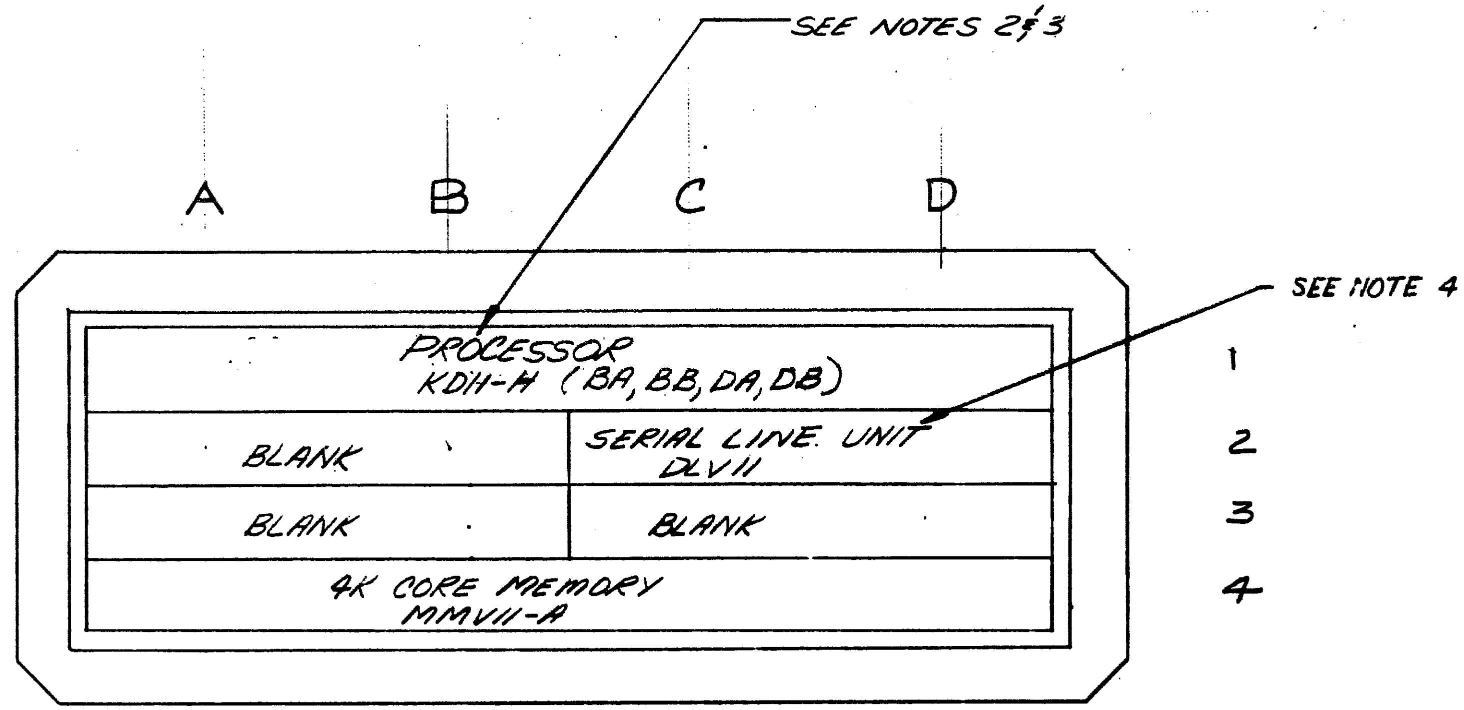
SIZE	CODE	NUMBER	REV.
C	MU	11/Ø3-Ø-3	A

DIST.

SIZE C CODE MU NUMBER 11/Ø3-Ø-3 REV. A

DEC FORM NO. DRC 100-8

NOTES:
1. THIS MODULE UTILIZATION WILL BE USED FOR: 11/Ø3-BA, 11/Ø3-BB, 11/Ø3-DA, 11/Ø3-DB 11/Ø3-FA, 11/Ø3-FB, 11/Ø3-HA, 11/Ø3-HB.
2. KD11-H WITH MMV11-A BECOMES KD11-J.
3. KD11-H WITH MMV11-A AND KEV11 BECOMES KD11-M.
4. 11/Ø3-FA, 11/Ø3-FB, 11/Ø3-HA, AND 11/Ø3-HB DO NOT INCLUDE DLV11.



VIEW FROM MODULE SIDE OF BACKPLANE

REVISIONS		
REV.	CHANGE NO.	CHK
A	11/03-00001 J. BIRO 25 NOV 75	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/Ø3		PARTS LIST		

DIMENSIONAL TOLERANCE: DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX = ± 0.10 X.X = ± 0.5 X = ± 2	.XXX = ± .005 .XX = ± .02 .X = ± .1	±0° 30'

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —
FINISH —

		DATE
DRN.		9 SEPT 75
CHK'D		
ENG.		9/23/75
PROJ. ENG.		9/23/75
PROD.		9/17/75

NEXT HIGHER ASSY. B-DD-11/Ø3-Ø

SCALE —
SHEET 1 OF 1

digital

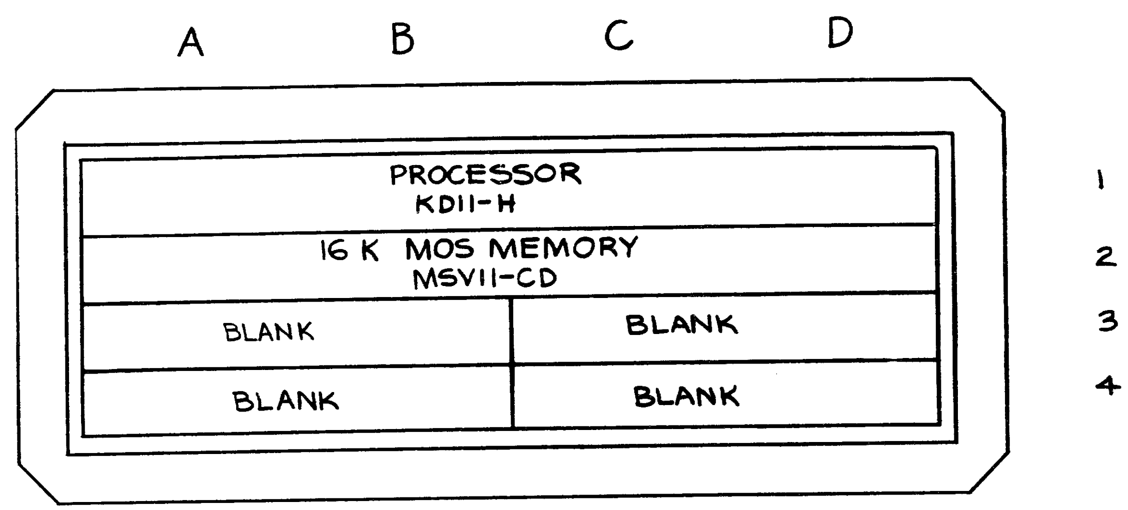
TITLE MODULE UTILIZATION (11/Ø3)

SIZE	CODE	NUMBER	REV.
C	MU	11/Ø3-Ø-4	A

DIST.

NOTES:

1 THIS MODULE UTILIZATION WILL BE USED FOR: 11/03-KA, 11/03-KB, 11/03-MA, 11/03-MB.



VIEW FROM MODULE SIDE OF BACKPLANE

REVISIONS		
CHK	CHANGE NO.	REV.
	11/Ø3-00006	A
B. Chiasson	31 MAR. 77	
	J. BIRO	
	6 APR 77	
	11/03-00007	B
	24 Aug 77	
	D. BENNETT	
	1 SEPT 77	

DEC FORM NO. DRC 100-C

DESCRIPTION	DWG./PART NO.	ITEM NO.

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'

SURFACE QUALITY IN MICROINCHES

CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
PREFERRED	±.012	±.016	±.025	±.04	±.060	±0.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL —/—/—

FINISH —/—/—

DRN.	Bob Pellerin	30 DEC 76
CHK'D		30 DEC 76
ENG.	John Biro	4 Jan 77
PROJ. ENG.		4 Jan 77
PROD.		11 Feb 77

NEXT HIGHER ASSY. B-DD-11/Ø3-Ø

SCALE —/—/—

SHEET 1 OF 1

FIRST USED ON 11/Ø3

digital

TITLE MODULE UTILIZATION (11/Ø3)

SIZE	CODE	NUMBER	REV.
C	MU	11/Ø3-Ø-5	B

DIST.

C MU 11/Ø3-Ø-5 REV. B

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

UNIT VARIATIONS COVERED BY THIS PRINT SET
KD11-F

KD11-F

Field Maintenance Print Set

Digital Equipment Corporation

MPØØØ49

REV.	CHG. NO.	DATE
*	ORIGINATED	5-76
A	KD11F-7	1-78

REVISIONS

USED ON OPTION/MODEL	
PDP11	

SHEET 1 OF 1

DRN.	DATE
L. HEVESH	
CHK'D: Elizabeth McHenrick	5/4/76
PROJ. ENG.: Elizabeth McHenrick	5/4/76
FIELD SERV.: John Carlson	5/4/76

digital

TITLE: PROC /4K RAM MEMORY

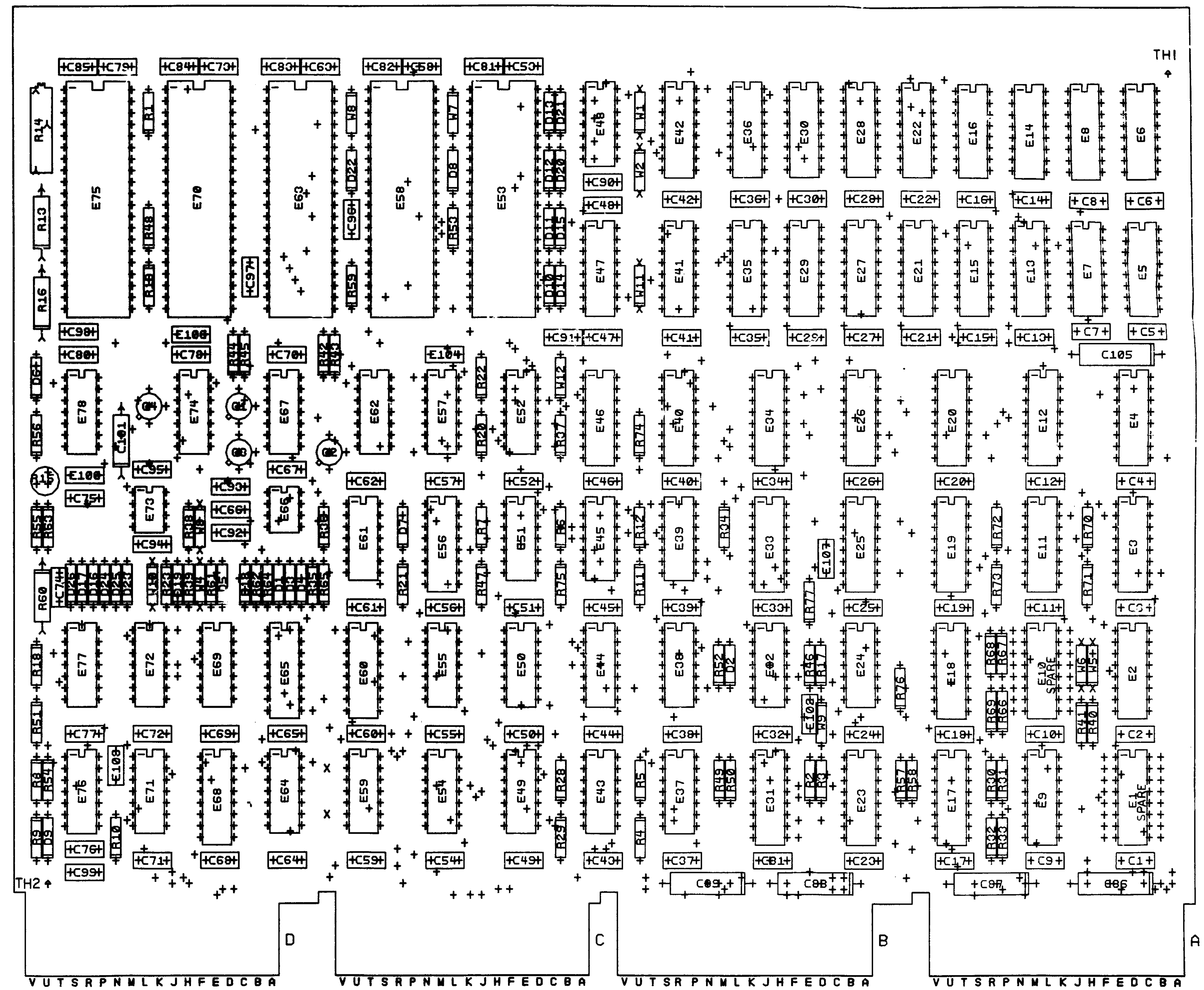
SIZE	CODE	NUMBER	REV.
B	TC	KD11 F-Ø-2	A

DIST.

EN-01124-16-N676-(327)

DRB 124

D	AH	M7264-0-5	Z



NOTES:

1. E1 AND E10 ARE SPARE I.C. LOCATIONS.
2. W1,W3,W4,W5,W6,W9,W10 AND W12 ARE OPTIONAL JUMPERS.
3. R53,R55,R59 AND R63 ARE OPTIONAL RESISTORS.
4. D8 AND D22 ARE OPTIONAL DIODES.

REV	CHANGE NO				CHK
Y	000017	[illegible] 6-6-77	D. BENNETT	[signature] 12-6-77	[illegible]
Z	M7264-19	D. Zuckerman 20 OCT 77	D. BENNETT	D. Bennett 12-28-77	K.T.

HOLE DATA										
SYMBOL	–	⅄	X	↑	Z	H	Δ	◘	◆	*
FIN HOLE SIZE	.038	.042	.032	.156						
PLATED	X	X		X						
NON PLATED			X							
QTY.	2243	11	18	2						
◯-OFF GRD HLE										
DRILL SIZE										

BOARD FABRICATION INFORMATION	
PANEL SIZE	8.5 X QUAD
PANEL DATA DWG.#	D-MD-7605819-0-0
PANEL MAT'L	.052 THK.
QTY. OF LAYERS	FOUR
COPPER THICKNESS	ONE OUNCE
PTH. YES PRINT AND ETCH	NO
MODULE INSERTED 100 TIMES OR MORE?	NO

SIGNATURES	DATE
DRN. JOHN LEPKOWSKI	6-6-77
CHK'D. [signature]	11-9-77
ENG. R. Bennett	11-9-77
PROJ.ENG. R. Bennett	11-9-77
PROD. [signature]	11-9-77
SCALE 2 TO 1	
SHT. 1 OF 3	
NEXT HIGHER ASSY.	

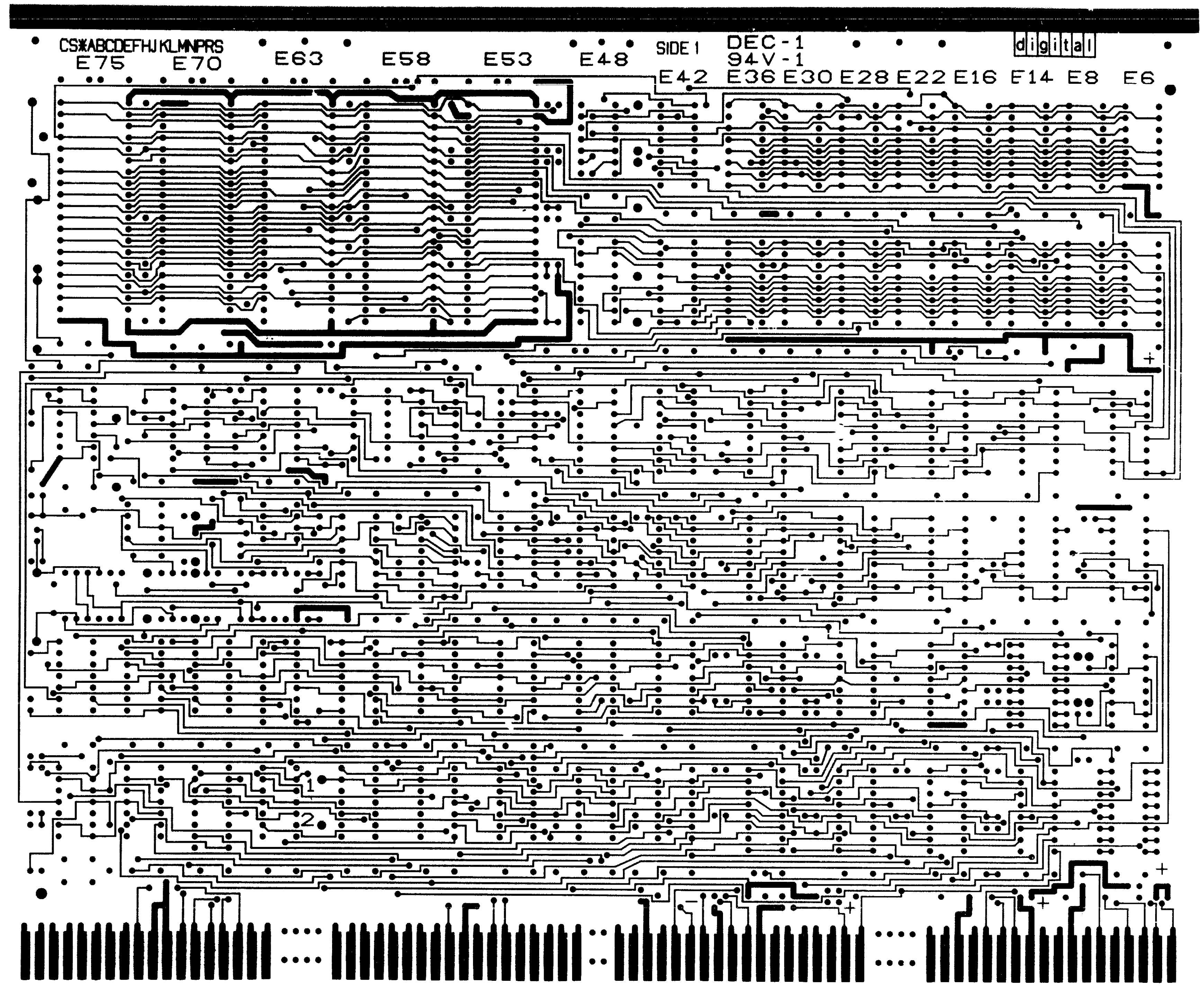
digital

TITLE DRILL AND ETCH DRAWING

SIZE	CODE	NUMBER	REV
D	AH	M7264-0-5	Z

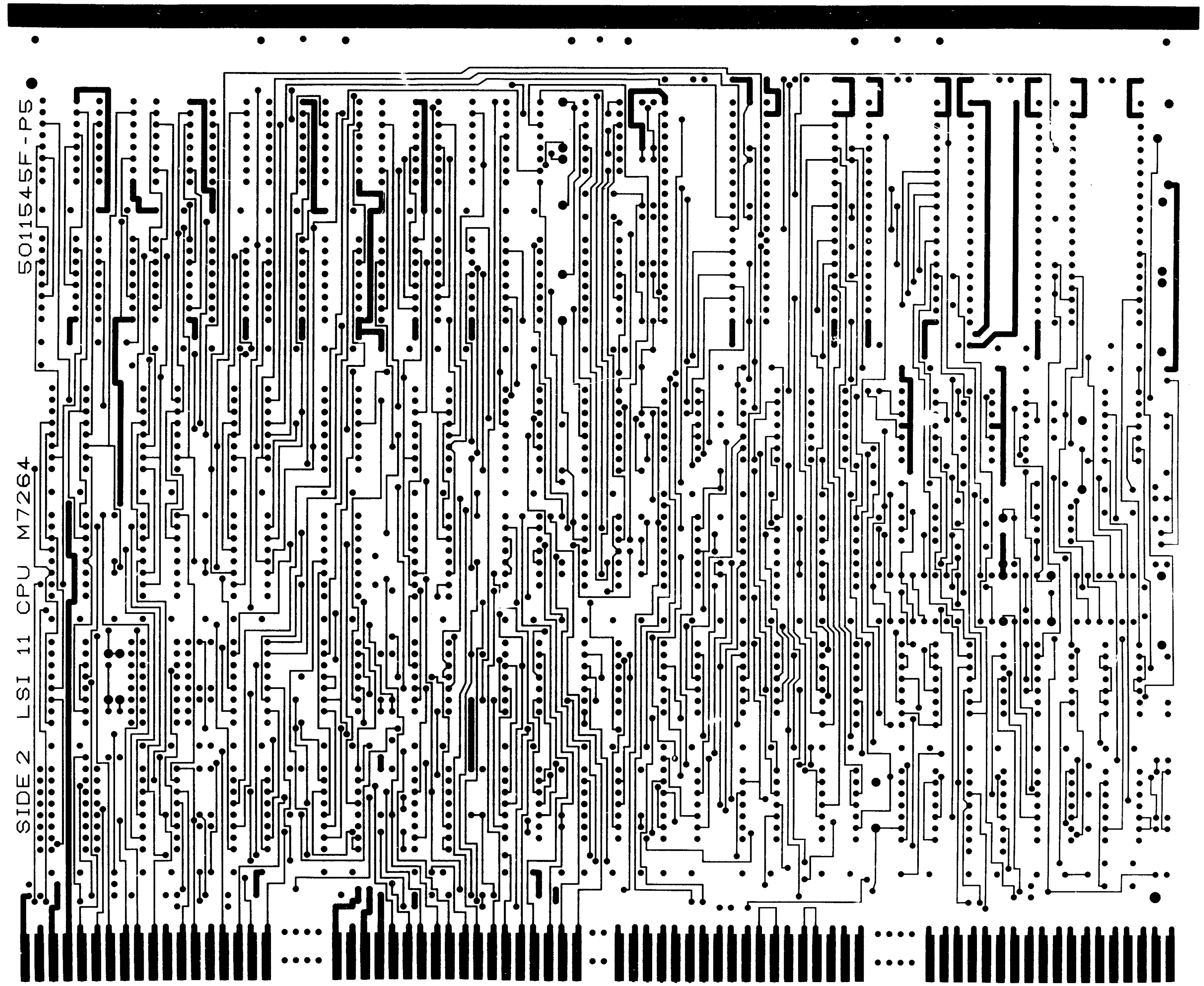
ETCH REV. F

MS# N/A



REVISIONS

TITLE LSI 11 CPU MODULE	SIZE D	CODE AH	NUMBER M7264-Ø-5	REV. Z
SCALE NONE	SHEET 2 OF 3	DIST.		



REVISIONS

	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
LSI 11 CPU MODULE	D	AH	M7264-Ø-5	Z
SCALE NONE	SHEET 3 OF 3	DIST		

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY . D. ZWICKER DATE 22-DEC-77	CHECKED S. KITTLE DATE 22-DEC-77	SECTION 1	
ENG CHAO S. CHI DATE 22-DEC-77	PROD CHAO S. CHI DATE 22-DEC-77	ISSUED SECTION 1	

NOTES:
M7264-AA = M7264 or M7264-AB, or -CB, or -DB, or -EB, or -FB, or -HB, or -JB

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
1	K-CO-M7264-Ø-4		X-Y COORDINATING HOLE LOCATION	REF										REF		
2	D-AH-M7264-Ø-5		ASSY/DRILLING HOLE LAYOUT	REF										REF		
3	B-MH-M7264-Ø-6		MODULE ECO HISTORY	REF										REF		
4	D-CS-M7264-Ø-1		CIRCUIT SCHEMATIC	REF										REF		
5		5011545	ETCHED CIRCUIT BOARD	1	1	1	1	1	1	1	1	1	1	1		
6		1213113-01	HANDLE (SEE NOTE 9)	1	1	1	1	1	1	1	1	1	1	1		
7		9009185	JUMPER INSULATED	-	1	1	-	-	-	-	-	-	-	-		W9
8		9009185	JUMPER INSULATED	2	-	-	2	2	2	2	2	2	2	2		W7, W8
9		9009149-01	PIN STAKING	18	-	-	18	18	18	18	18	18	18	18		W1-W6, W10, W11, TP1, TP2
10		9009149-01	PIN STAKING	-	10	10	-	-	-	-	-	-	-	-		W3-W6, TP1, TP2
11		1212385-01	SOCKET, 40 PIN	5	5	5	5	5	5	5	5	5	5	5		E53, E58, E63, E7Ø, E75
12		9105740-55	WIRE, SOLID, INS., 30 AWG	-	1	1	-	-	-	-	-	-	-	-		W4
13		9105740-55	WIRE, SOLID, INS., 30 AWG	2	-	-	2	2	2	2	2	2	2	2		W2, W11
14		9000024-01	EYELET GS4-7	8	8	8	8	8	8	8	8	8	8	8		
15		1002087	CAPACITOR, 12pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1		C1ØØ
16		1000014	CAPACITOR, 68pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1		C1Ø4
17		1012121	CAPACITOR, 220pf, 100V, 1%	1	-	-	1	1	1	1	-	-	-	-		C1Ø3
18		1012121	CAPACITOR, 220pf, 100V, 1%	-	-	-	-	-	-	-	2	2	2	2		C1Ø2, C1Ø3
19		1000026	CAPACITOR, 680pf, 100V, 5%	1	-	-	1	1	1	1	-	-	-	-		C1Ø2
20		1002424	CAPACITOR, 1200pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1		C1Ø7

E.C.O. NO. 0019

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 1 OF 6	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY D. ZWICKER DATE 22-DEC-77	CHECKED S. KITTLE DATE 22-DEC-77	SECTION 1	
ENG CHAO S. CHI DATE 22-DEC-77	PROD CHAO S. CHI DATE 22-DEC-77	ISSUED SECTION 1	NOTES:

QUANTITY / VARIATION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB	REF DESIGNATION
21		1001610	CAPACITOR, .01uf, 50V 10%	57	-	-	57	57	57	57	57	57	57	57	C1-C4, C9-C12, C17-C2Ø, C23-C26,C31-C34, C37-C52, C54-C57, C59-C62, C64, C65,C68, C71, C72, C76, C77,C8Ø,C96,C97,C99,C1Ø6
22		1001610	CAPACITOR, .01uf, 50V, 10%	-	52	52	-	-	-	-	-	-	-	-	C1-C4, C9-C12, C17-C2Ø, C23-C26,C31-C34, C37, C38, C39, C43-C52, C54-C57,C59-C62, C64, C65, C68, C69, C71, C72, C77, C8Ø, C96, C97, C1Ø6
23		1010031-04	CAPACITOR, .33uf,50V,10%,POLYCARB	1	1	1	1	1	1	1	1	1	1	1	C1Ø1
24		1010279	CAPACITOR, .47uf, 25V, 20%	39	-	-	39	39	39	39	39	39	39	39	C5-C8, C13-C16, C21, C22, C27-C3Ø, C35, C[illegible]6, C53, C58, C63, C66, C67, C7Ø, C73-C75, C78, C79, C81-C85,C9Ø-C95,C98
25		1010279	CAPACITOR, .47uf, 25V, 20%	-	23	23	-	-	-	-	-	-	-	-	C53, C58, C63, C66, C67, C7Ø, C73, C74, C75, C78, C79, C81-C85, C9Ø-C95, C98
26		1004812	CAPACITOR, 15uf, 20V, 10%	5	-	-	5	5	5	5	5	5	5	5	C86-C89, C1Ø5
27		1004812	CAPACITOR, 10uf, 20V, 10%	-	4	4	-	-	-	-	-	-	-	-	C86-C89
28															
29		1311003-02	RESISTOR, NTWK, 14-330, 14-680	2	2	2	2	2	2	2	2	2	2	2	E9, E25
30		1301317	RESISTOR, 10 ohm, 1/4W, 5%	2	-	-	2	2	2	2	-	-	-	-	R11, R12
31		1301969	RESISTOR, 22 ohm, 1/4W, 5%	-	-	-	-	-	-	-	2	2	2	2	R11, R12
32		1301969	RESISTOR, 22 ohm, 1/4W, 5%	3	3	3	3	3	3	3	3	3	3	3	R42-R45
33		1301522	RESISTOR, 27 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1	R44
34		1300197	RESISTOR, 33 ohm, 1/4W, 5%	4	4	4	4	4	4	4	4	4	4	4	R35, R62, R64, R65
35		1305121	RESISTOR, 38.3 ohm, RN55, 1%	1	-	-	1	1	1	1	1	1	1	1	R9
36		1309995	RESISTOR, 56 ohm, 1/2W, 5%	3	3	3	3	3	3	3	3	3	3	3	R13, R16, R5Ø

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 2 OF 6	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY	D. ZWICKER	CHECKED	S. KITTLE	SECTION	
DATE	22-DEC-77	DATE	22-DEC-77		1
ENG	CHAO S. CHI	PROD	CHAO S. CHI	ISSUED SECTION	
DATE	22-DEC-77	DATE	22-DEC-77		1

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
37		1300229	RESISTOR, 100 ohm, 1/4W, 5%	2	2	2	2	2	2	2	2	2	2	2		R36, R61
38		1303038	RESISTOR, 133 ohm, RN55, 1%	2	-	-	2	2	2	2	2	2	2	2		R8, R1Ø
39		1300250	RESISTOR, 150 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1		R21
40		1309787	RESISTOR, 249 ohm, RN55, 1%	-	-	-	-	-	-	-	1	1	1	1		R47
41		1301972	RESISTOR, 270 ohm, 1/4W, 5%	1	-	-	1	1	1	1	1	1	1	1		R54
42		1300295	RESISTOR, 330 ohm, 1/4W, 5%	13	13	13	13	13	13	13	13	13	13	13		R2, R4, R28, R3Ø, R32, R37, R49, R58, R66, R68, R7Ø, R72, R77
43		1300316	RESISTOR, 470 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1		R34
44		1301424	RESISTOR, 680 ohm, 1/4W, 5%	-	15	15	-	-	-	-	-	-	-	-		R3, R5, R2Ø, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76
45		1301424	RESISTOR, 680 ohm, 1/4W, 5%	17	-	-	17	17	17	17	17	17	17	17		R3, R5, R6, R2Ø, R23, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76
46		1302685	RESISTOR, 909 ohm, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-		R47
47		1301320	RESISTOR, 1.2K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-		R17
48		1309295	RESISTOR, 1.8K, RN55, .1%	-	-	-	-	-	-	-	1	1	1	1		R46
49		1302388	RESISTOR, 2K, 1/4W, 5%	12	12	12	12	12	12	12	12	12	12	12		R1, R18, R19, R22, R38-R41, R48, R56, R74, R75
50		1304854	RESISTOR, 5.11K, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-		R46
51		1301423	RESISTOR, 6.8K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-		R7
52																
53		1309150-07	POT, 2K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1		R15
54		1309143-09	POT, 5K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1		R14

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 3 OF 6	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY	D. ZWICKER	CHECKED	S. KITTLE	SECTION	1
DATE	22-DEC-77	DATE	22-DEC-77		
ENG	CHAO S. CHI	PROD	CHAO S. CHI	ISSUED SECTION	1
DATE	22-DEC-77	DATE	22-DEC-77		

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
55																
56																
57		1100122	DIODE, IN748A, 3.9V, 5%	1	1	1	1	1	1	1	1	1	1	1		D5
58		1100114	DIODE, 664	20	20	20	20	20	20	20	20	20	20	20		D1, D3, D4, D7, D1Ø-D21, D23-D26
59		1110994	DIODE, IN751A, 5.1V, 5%	3	-	-	3	3	3	3	3	3	3	3		D2, D6, D9
60		1110994	DIODE, IN751A, 5.1V, 5%	-	1	1	-	-	-	-	-	-	-	-		D6
61																
62		1512971	TRANSISTOR, PNP, 4260	4	4	4	4	4	4	4	4	4	4	4		Q1-Q4
63																
64		1905575	I.C. DEC 74ØØ	3	3	3	3	3	3	3	3	3	3	3		E38, E45, E72
65		1910532	I.C. DEC 74SØØ	1	1	1	1	1	1	1	1	1	1	1		E24
66		1909686	I.C. DEC 74Ø4	1	1	1	1	1	1	1	1	1	1	1		E69
67		1910534	I.C. DEC 74SØ4	3	3	3	3	3	3	3	3	3	3	3		E37, E59, E61
68		1910535	I.C. DEC 74SØ5	1	1	1	1	1	1	1	1	1	1	1		E51
69		1010536	I.C. DEC 74S1Ø	-	2	2	-	-	-	-	-	-	-	-		E55, E62
70		1910536	I.C. DEC 74S1Ø	3	-	-	3	3	3	3	3	3	3	3		E48, E55, E62
71		1910537	I.C. DEC 74S11	1	1	1	1	1	1	1	1	1	1	1		E32
72		1912811	I.C. DEC 74LS21	1	1	1	1	1	1	1	1	1	1	1		E52
73		1910046	I.C. DEC 7442	1	1	1	1	1	1	1	1	1	1	1		E68
74		1905547	I.C. DEC 7474	5	5	5	5	5	5	5	5	5	5	5		E43, E44, E49, E64, E71

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 4 OF 6	INSERTION PARTS LIST DATA BASE REV			

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY D. ZWICKER	CHECKED S. KITTLE	SECTION
DATE 22-DEC-77	DATE 22-DEC-77	1
ENG CHAO S. CHI	PROD CHAO S. CHI	ISSUED SECTION
DATE 22-DEC-77	DATE 22-DEC-77	1

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
				QUANTITY / VARIATION												
75		1910544	I.C. DEC 74S74	3	3	3	3	3	3	3	3	3	3	3		E5Ø, E54, E57
76		1909050	I.C. DEC 7475	4	-	-	4	4	4	4	4	4	4	4		E26, E4Ø, E42, E47
77		1911195	I.C. DEC 7497	1	1	1	1	1	1	1	1	1	1	1		E65
78		1911676	I.C. DEC 74S139	1	1	1	1	1	1	1	1	1	1	1		E56
79		1910546	I.C. DEC 74S14Ø	-	1	1	-	-	-	-	-	-	-	-		E77
80		1910546	I.C. DEC 74S14Ø	2	-	-	2	2	2	2	2	2	2	2		E39, E77
81		1910550	I.C. DEC 74S174	1	1	1	1	1	1	1	1	1	1	1		E Ø
82		1911641	I.C. DEC 74S257	-	5	5	-	-	-	-	-	-	-	-		E2, E4, E12, E2Ø, E34
83		1911641	I.C. DEC 74S257	7	-	-	7	7	7	7	7	7	7	7		E2, E4, E12, E2Ø, E34, E41, E46
84		1910268	I.C. DEC 751Ø7	1	-	-	1	1	1	1	1	1	1	1		E76
85		1912955	I.C. DEC 75322	2	2	2	2	2	2	2	2	2	2	2		E67, E74
86		1911116	I.C. DEC 8837	1	1	1	1	1	1	1	1	1	1	1		E31
87		1911579	I.C. DEC 8641	7	7	7	7	7	7	7	7	7	7	7		E3, E11, E17-E19, E23, E33
88		1911038	I.C. DEC MC4Ø24	1	1	1	1	1	1	1	1	1	1	1		E78
89		1912098	I.C. DEC MHØØ26	2	2	2	2	2	2	2	2	2	2	2		E66, E73
90																
91																
92		2112726	I.C. DEC, 4K RAM	16	-	-	-	16	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
93		2112958-01	I.C. DEC, 4K RAM	-	-	-	16	-	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 5 OF 6	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY	D. ZWICKER	CHECKED	S. KITTLE	SECTION	1
DATE	22-DEC-77	DATE	22-DEC-77		
ENG	CHAO S. CHI	PROD	CHAO S. CHI	ISSUED SECTION	1
DATE	22-DEC-77	DATE	22-DEC-77		

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												REF DESIGNATION
				M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		
94		2113787-01	I.C. DEC, 4K RAM	-	-	-	-	-	16	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
95		2113795-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	16	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
96		2113735-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	16	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
97		2112914-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	-	16	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
98		2114114-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	-	-	16	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
99		2114475-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	-	-	-	16		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
100																
101																
102																
103		2111549-01	I.C. DEC, CP1611B39	1	1	1	1	1	1	1	1	1	1	1		E53
104		23002C4	I.C. DEC, CP1621B17	1	1	1	1	1	1	1	1	1	1	1		E58
105		23001B5	I.C. DEC, CP1631B1Ø3	1	1	-	1	-	1	1	1	1	1	1		E63
106		23002B5	I.C. DEC, CP1631BØ73	1	1	-	1	-	1	1	1	1	1	1		E7Ø
107		23003B6	I.C. DEC, CP1631B	-	-	1	-	1	-	-	-	-	-	-		E63

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 6 OF 6	INSERTION PARTS LIST DATA BASE REV			

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NOTES:

NOTES:

1. ADJUST R14 SO THAT THE FREQUENCY MEASURED AT E57 PIN 6 IS 2.5 MHZ MIN TO 2.631 MHZ MAX. THE MODULE MAY BE OPERATED AT OTHER FREQUENCIES FOR TEST PURPOSE ONLY. SEE SHEET (K-9) MANUFACTURING ADJUSTS TO 2.591 MIN TO 2.631 MAX
2. ADJUST R15 SO THAT THE REFRESH FREQUENCY MEASURED AT E78 PIN 8 IS 625 HZ ± 20 HZ. SEE SHEET (K-9).
3. TIME DELAY FROM FALLING EDGE ON E51 PIN 9 TO FALLING EDGE ON E76 PIN 4 SHOULD BE 110 TO 140 NS. R7 MAY BE REMOVED TO INCREASE THE DELAY SLIGHTLY IF LESS THAN 110 NS IS MEASURED. SEE SHEET (K-5).
4. JUMPER FUNCTIONS AND CONFIGURATION ARE AS FOLLOWS:

JUMPER SELECT FEATURES

JUMPER	SELECTION WHEN INSTALLED	OPTION	SHIPPING STATUS M7264 (REV E)	SHIPPING STATUS -YA
W1	RESIDENT MEMORY BANK 1	C.O.	R	R
W2	RESIDENT MEMORY BANK Ø	C.O.	I	R
W3	DISABLE EVENT LINE	C.O.	R	R
W4	DISABLE MEMORY REFRESH	C.O.	R	I
W5	POWER UP MODE SELECT	C.O.	R	R
W6	POWER UP MODE SELECT	C.O.	R	R
W7	BIASING VOLTAGE VDATA = VROM	F.O.	I	I
W8	BIASING VOLTAGE VCTL = VROM	F.O.	I	I
W9	DISABLE REPLY FROM RESIDENT MEMORY	F.O.	R	I
W10	DISABLE REPLY DURING REFRESH *	C.O.	R	R
W11	ENABLE ON BOARD MEMORY SELECT	C.O.	I	R

* INSTALLED IF RESIDENT RAM IS NOT THE SLOWEST REPLY IN THE SYSTEM.

POWER-UP MODES

MODE	JUMPERS W6	JUMPERS W5	MODE SELECT
0	R	R	PC AT 24 AND PS AT 26, OR HALT MODE
1	R	I	ODT MICROCODE
2	I	R	PC AT 173000 FOR USER BOOT STRAP
3	I	I	SPECIAL PROCESSOR MICROCODE (not implemented)

I; INSTALLED
R; REMOVED
C.O.; CUSTOMER OPTION
F.O.; FACTORY OPTION

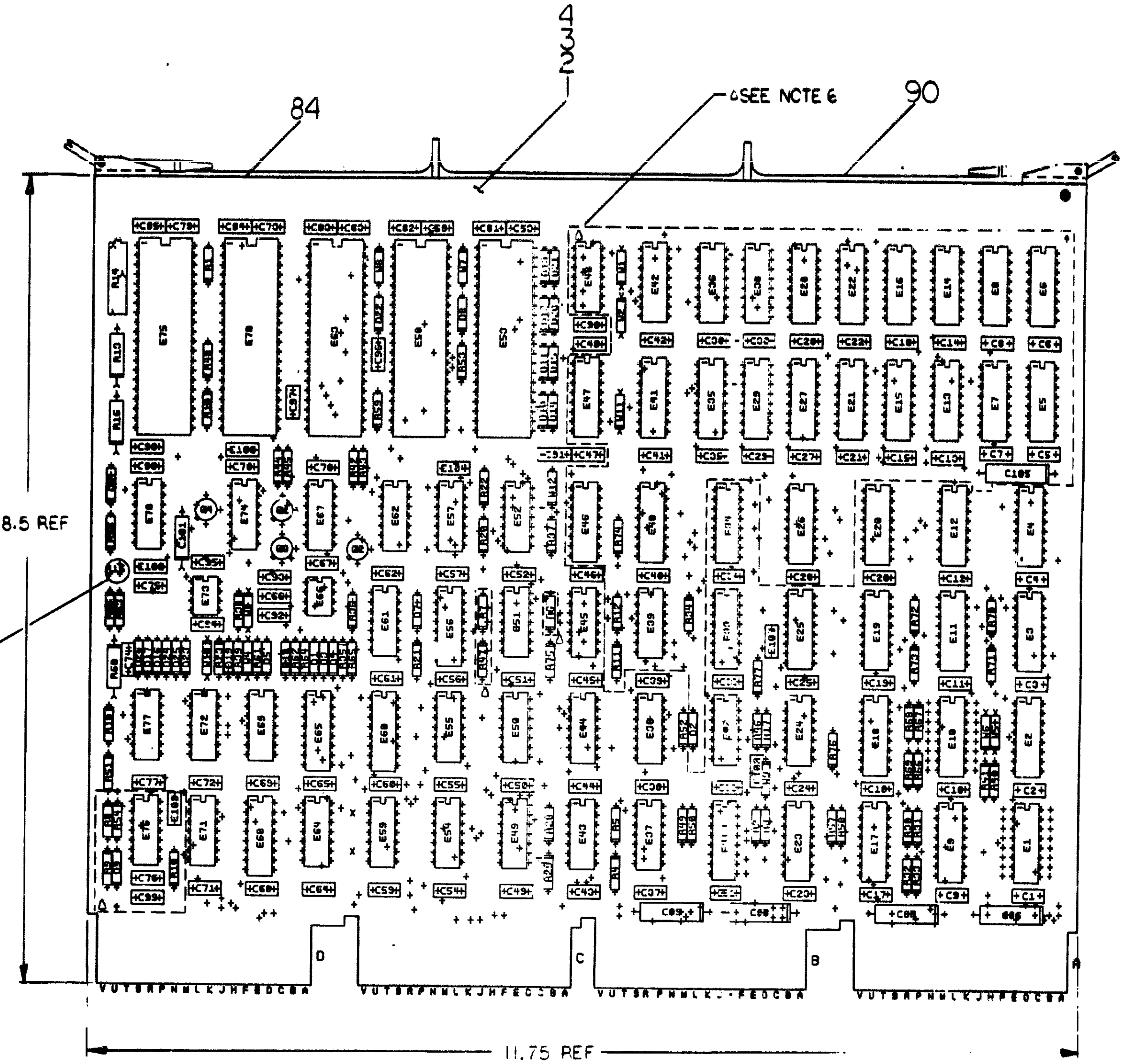
5. COMPONENTS ARE NOT INSTALLED (RESERVED OPTION) UNLESS SPECIFICALLY INSTRUCTED.
6. DELETED FOR M7264-YA VERSION
7. ~~[illegible]~~
8. SIGNAL DESIGNATION
   XX YYY Z
   - XX — SIGNAL ORIGIN (PAGE) IDENTIFIER
   - YYY — SIGNAL NAME
   - Z — H (HIGH), L (LOW) WHEN ASSERTED
9. ALTERNATE PARTS CHART

ITEM #	PREFERRED PART	ALTERNATE PART
6	1213113-01	1913826-00 AND -01
21, 22	1001610-00	1001610-01
9, 10	9009149-01	9009149

10. THE 23ØØ2B6 IS AN ALLOWABLE SUBSTITUTION FOR THE 23ØØ3B6 ON THE M7264-BB AND M7264-YB. THE 23ØØ3B6 IS PREFERRED.

VARIATION CHART

VARIATION	DESCRIPTION
M7264-AA	M7264 OR M7264-AB, CB, DB, EB, FB, HB, JB
M7264	PROCESSOR W MOSTEK 4096
M7264-AB	PROCESSOR W INTEL 2104
M7264-BB	PROCESSOR W MOSTEK 4096 AND HYBRID MICROM
M7264-CB	PROCESSOR W FUJITSU 8224
M7264-DB	PROCESSOR W INTEL 2104A
M7264-EB	PROCESSOR W MOSTEK 4027
M7264-FB	PROCESSOR W DEC 4027
M7264-HB	PROCESSOR W MOTOROLA 4027
M7264-JB	PROCESSOR W FUJITSU 8227
M7264-YA	PROCESSOR W NO MOS RAM
M7264-YB	PROCESSOR W NO MOS RAM AND HYBRID MICROM



IC PIN LOCATIONS

IC TYPE	GND	+5V	+12V
4K RAM	16	9	8
DEC MHØØ26	3		
DEC 75322	7	14	
DEC 7497	8	16	
DEC 8641	8	16	
DEC 74S257	8	16	
DEC 74S174	8	16	
DEC 74S140	7	14	
DEC 74S139	8	16	
DEC 7475	12	5	
DEC 74S74	7	14	
DEC 7474	7	14	
DEC 7442	8	16	
DEC 74S11	7	14	
DEC 74S1Ø	7	14	
DEC 8837	8	16	
DEC 74SØ5	7	14	
DEC 74SØ4	7	14	
DEC 74SØØ	7	14	
DEC 74ØØ	7	14	

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

NOTE: FOR PARTS LIST, SEE B-PL-M7264-Ø-Ø

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION MODEL

ETCH BOARD REV. F

REV.	CHANGE NO.	REVISED / REDRAWN
Z	M7264-00019	D. BENNETT 20 DEC 77
Y	M7264-00017	M. LEWANDOWSKI 10 NOV 77
W	M7264-00016	M. PHIPPS 1 NOV 77
V	M7264-00015	J. BIRO 24 Oct 77
U	M7264-00014	R. REMILLARD 31 AUG 77
T	M7264-00013	M. PHIPPS
S	M7264-00012	M. LEWANDOWSKI
R	M7264-00011	M. LEWANDOWSKI
P	M7264-00010	C. CHI 10 Nov 76
N	M7264-00009	J. BIHO 27 AUG 76
M	M7264-00006	C. CHI
L	M7264-00007	C. CHI 5/6/76
K	M7264-00006	4-13-76
J	M7264-00005	

SEMICONDUCTOR CONVERSION CHART

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

DRN. DATE
CHK'D. DATE
ENG. Chao S. Chi DATE 1-20-76
PROJ. ENG. DATE 1-20-76
PROD. DATE 1-26-76
NEXT HIGHER ASSY
SCALE —
SHEET 1 OF 9

digital

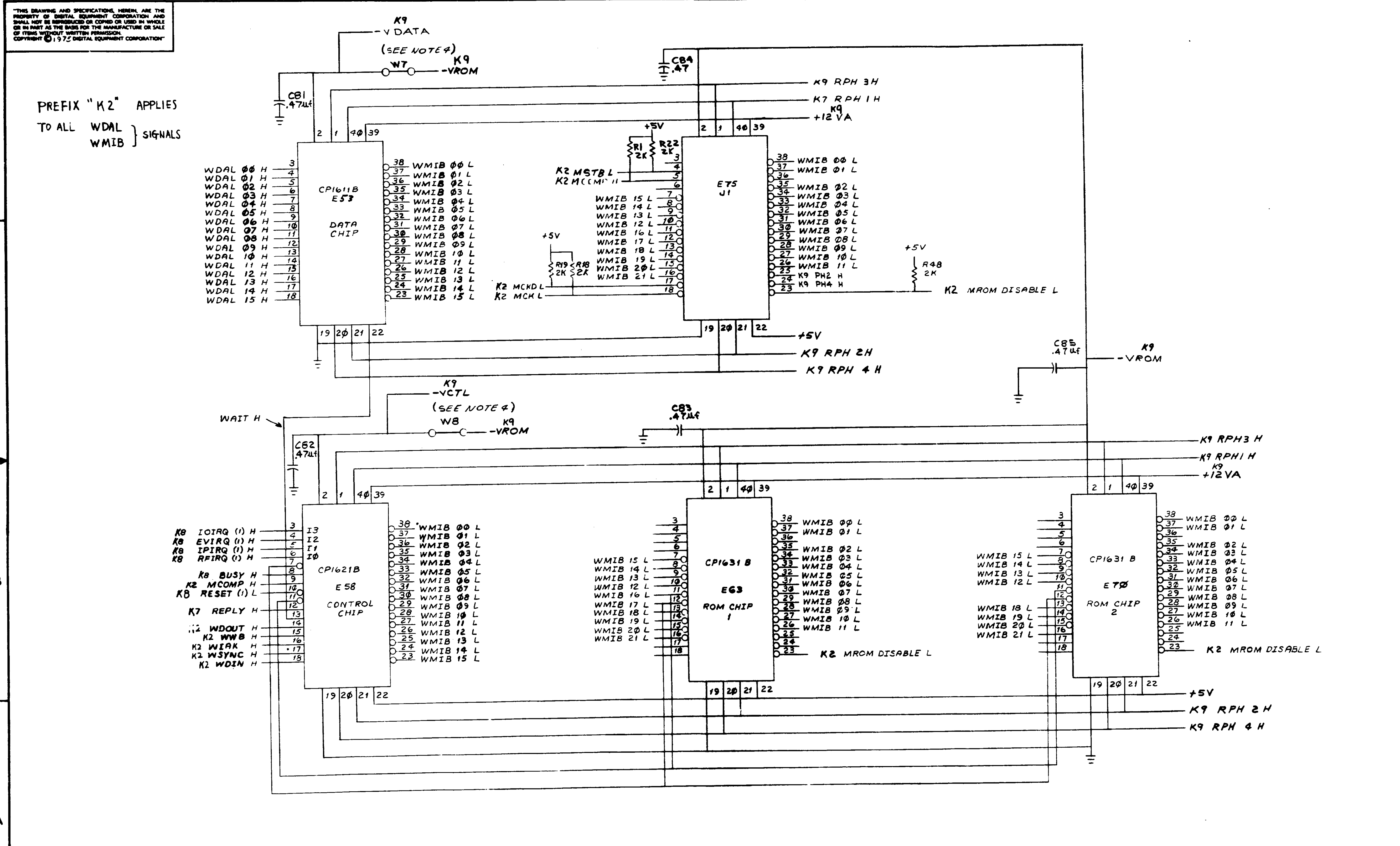
TITLE LSI-11 CPU MODULE

SIZE D CODE CS NUMBER M7264-0-1 REV Z

DIST.

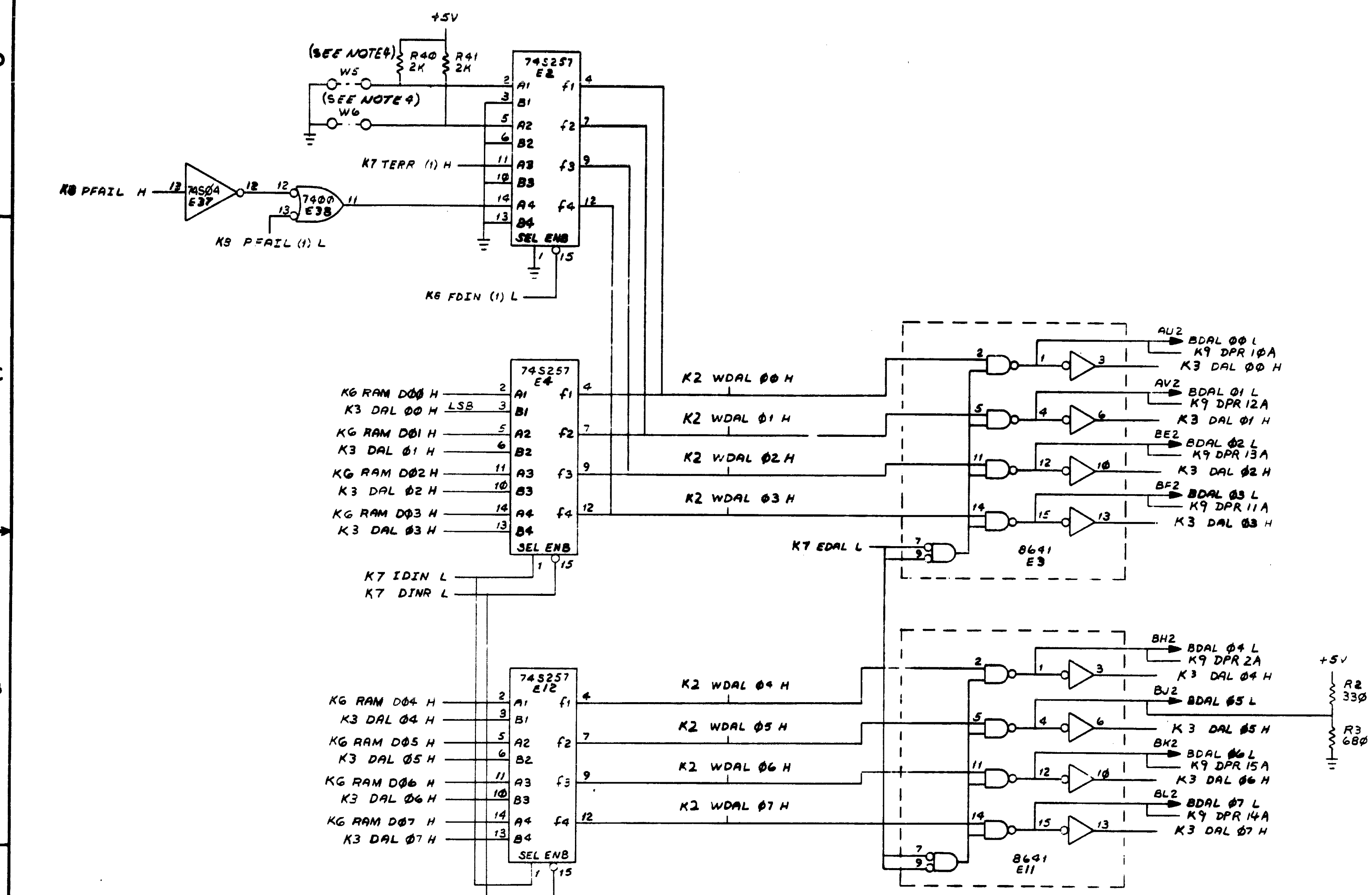
DEC FORM NO. DRD 135.8

D CS M7264-0-1 Z



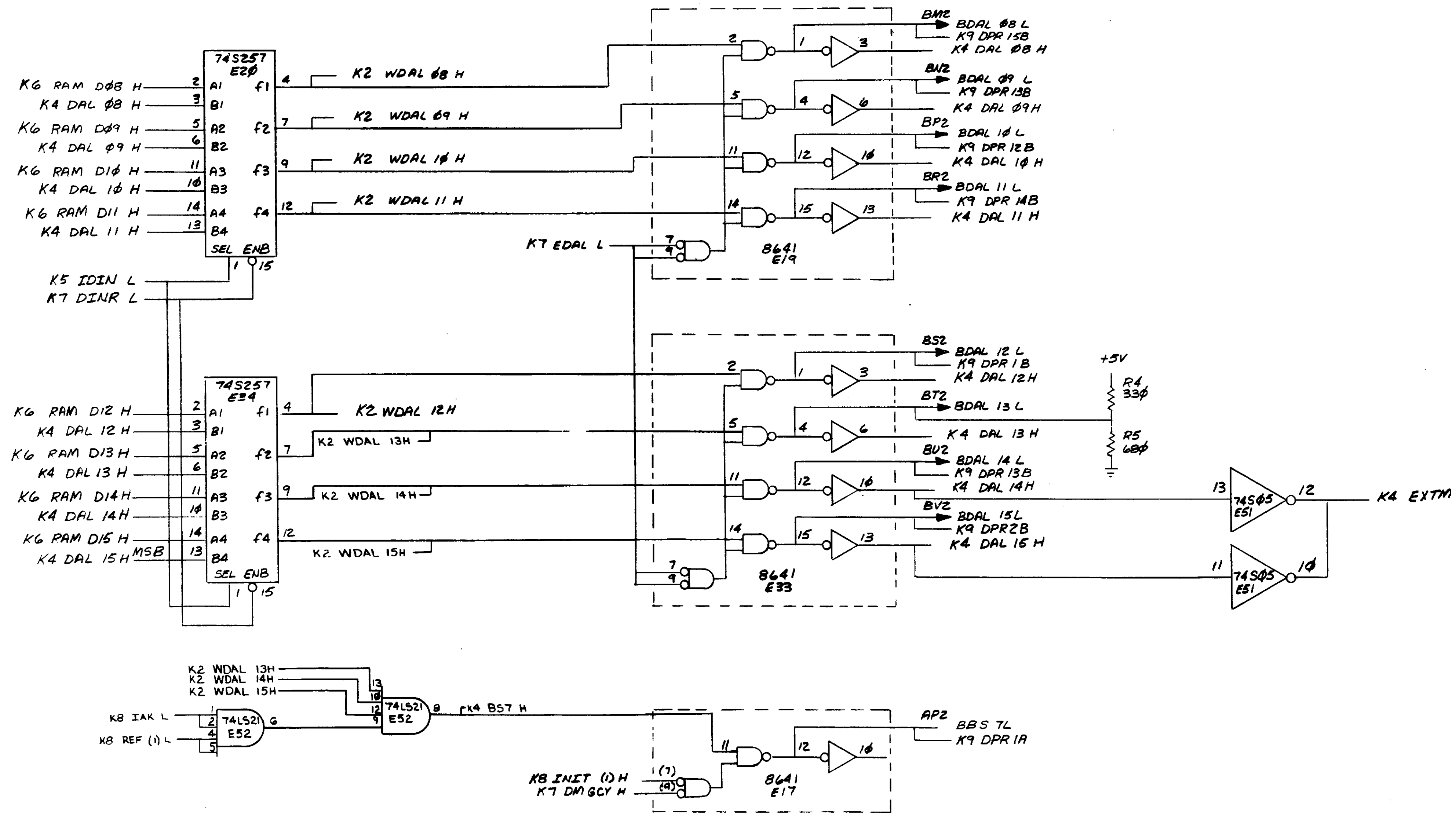
TITLE	LSI-11 CPU MODULE (K2)
SIZE	D
CODE	CS
NUMBER	M7264-Ø-1
REV.	Z
SCALE	—
SHEET	2 OF 9

DEC FORM NO. DPO 138



TITLE	SIZE	CODE	NUMBER	REV
LSI-11 CPU MODULE (K3)	D	CS	M7264-0-1	

SCALE — SHEET 3 OF 9

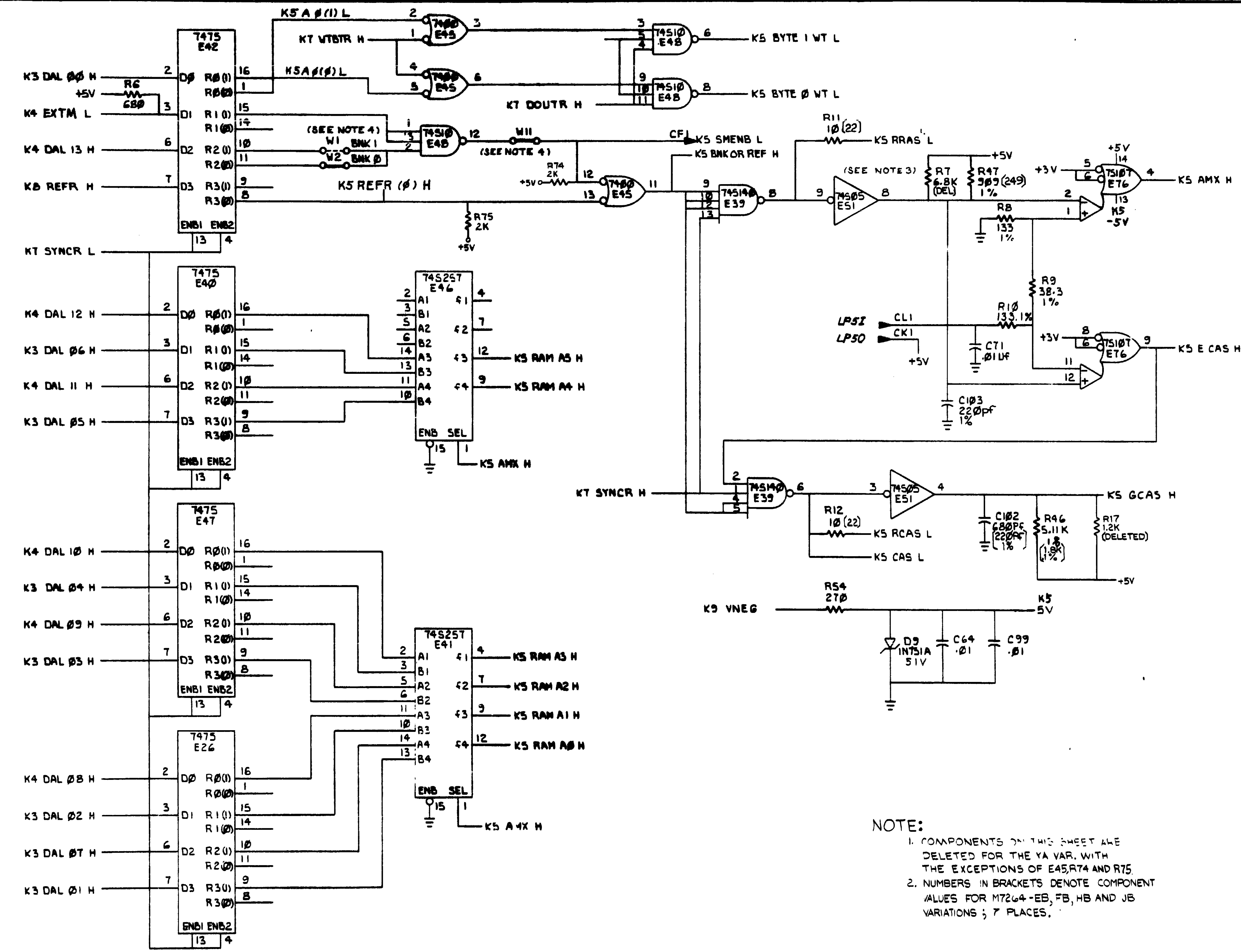


TITLE LSI-11 CPU MODULE (K4)	SIZE D	CODE CS	NUMBER M7264-Ø-1
SCALE —/—	SHEET 4 OF 9	DIST.	REV. Z

REVISIONS

CHK	CHANGE NO.	REV.

DEC FORM NO. DRD 137

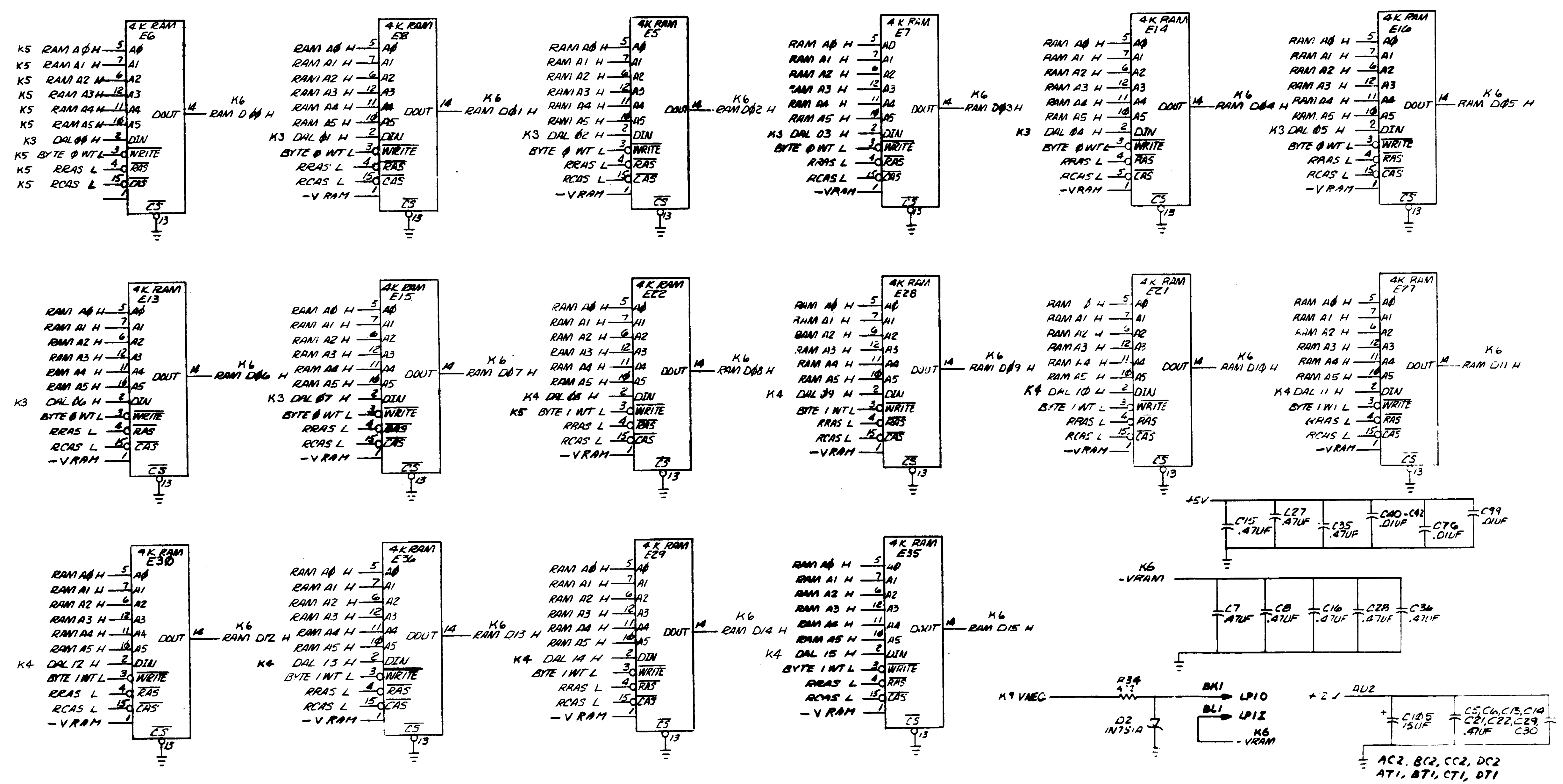


NOTE:

1. COMPONENTS ON THIS SHEET ARE DELETED FOR THE YA VAR. WITH THE EXCEPTIONS OF E45, R74 AND R75.
2. NUMBERS IN BRACKETS DENOTE COMPONENT VALUES FOR M7264-EB, FB, HB AND JB VARIATIONS; 7 PLACES.

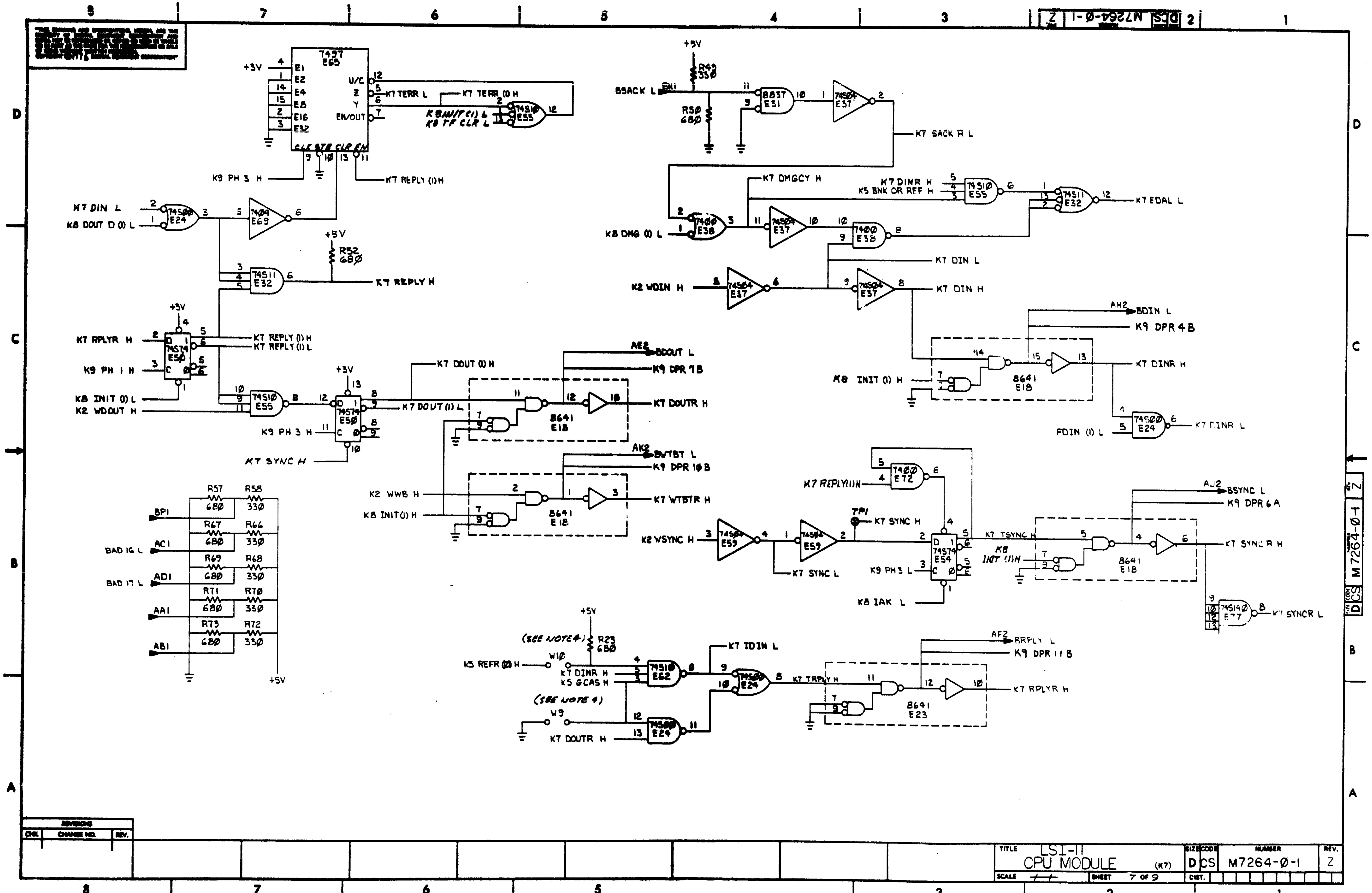
CIRCUIT SCHEMATIC ON THIS SHEET IS DELETED FOR "YA" VERSION

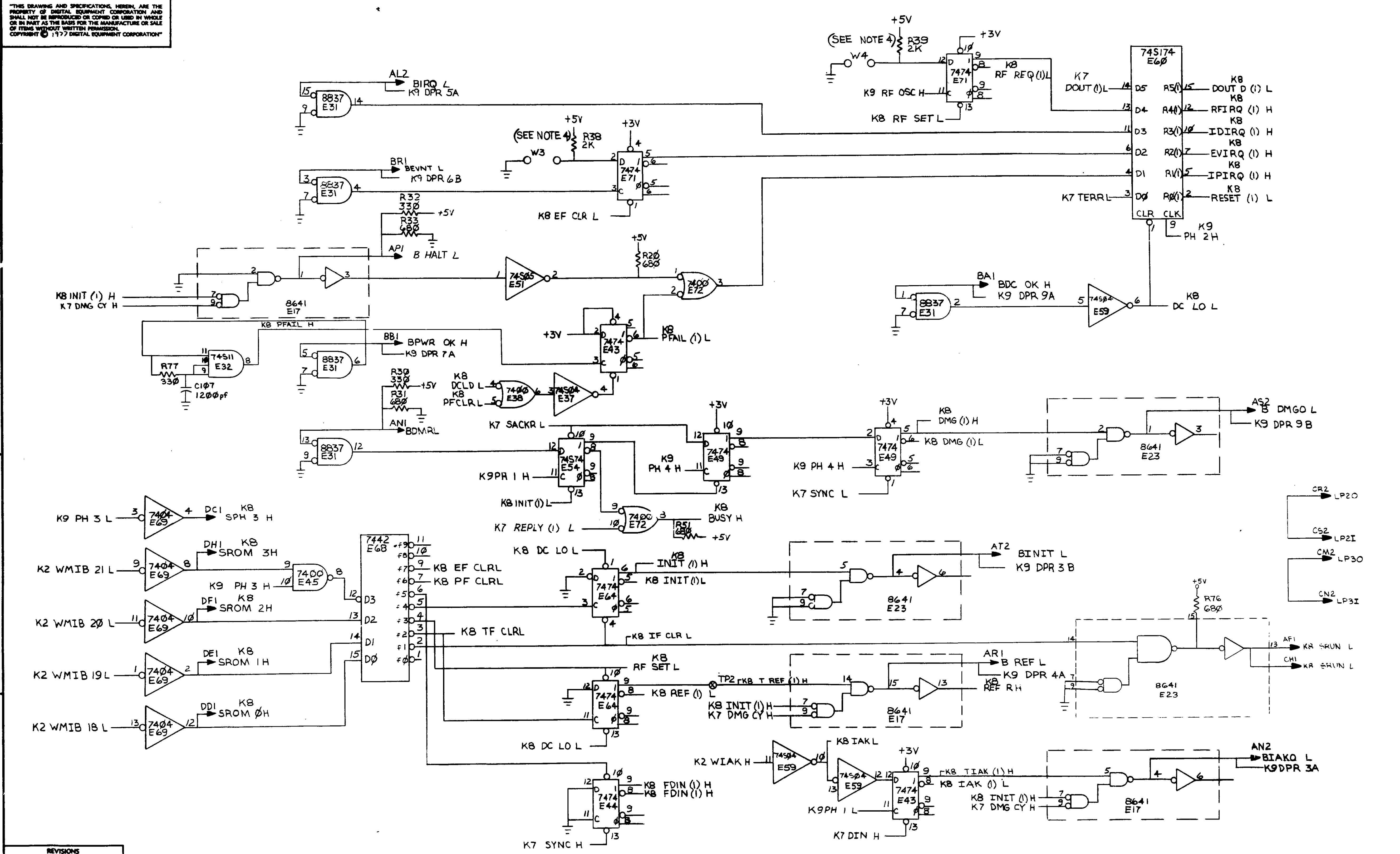
TITLE	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE (K5)	D	CS	M7264-Ø-1	Z
SCALE	SHEET 5 OF 9			



CIRCUIT SCHEMATIC ON THIS SHEET IS DELETED FOR "YA" VERSION

TITLE	LSI-11 CPU MODULE (K6)
SIZE / CODE / NUMBER	D CS M7264 Ø-1
REV.	Z
SHEET	6 OF 9


LSI-11
CPU MODULE (K7)
SHEET 7 OF 9
D CS M7264-0-1
REV. Z
7497 E65
74S10 E55
8837 E31
74S04 E37
74S00 E24
7404 E69
74S11 E32
74S74 E50
7400 E38
74S11 E32
8641 E18
7400 E72
74S04 E59
74S74 E54
74S140 E77
74S10 E62
8641 E23
K7 TERR L
K7 TERR (1) H
K8 INIT (1) L
K8 TF CLR L
K9 PH 3 H
K7 REPLY (1) H
K7 DIN L
K8 DOUT D (1) L
K7 REPLY H
K7 RPLYR H
K9 PH 1 H
K7 REPLY (1) H
K7 REPLY (1) L
K8 INIT (1) L
K2 WDOUT H
K7 DOUT (1) H
K7 DOUT (1) L
K7 SYNC H
BDOUT L
K9 DPR 7B
K7 DOUTR H
BWTBT L
K9 DPR 10B
K2 WWB H
K8 INIT (1) H
K7 WTBTR H
BSACK L
K7 SACK R L
K7 DMGCY H
K7 DINR H
K5 BNK OR RFF H
K7 EDAL L
K8 DMG (1) L
K7 DIN L
K2 WDIN H
K7 DIN H
BDIN L
K9 DPR 4B
K8 INIT (1) H
K7 DINR H
FDIN (1) L
K7 REPLY (1) H
TP1
K7 SYNC H
K2 WSYNC H
K7 SYNC L
K9 PH 3 L
K8 IAK L
K7 TSYNC H
K8 INIT (1) H
BSYNC L
K9 DPR 6A
K7 SYNC R H
K7 SYNCR L
BAD 16 L
BAD 17 L
(SEE NOTE 4)
K5 REFR (0) H
K7 DINR H
K5 GCAS H
K7 IDIN L
K7 TRPLY H
BRPLY L
K9 DPR 11 B
K7 RPLYR H
K7 DOUTR H
REVISIONS
CHK.
CHANGE NO.
REV.
TITLE
SCALE
SHEET
SIZE
CODE
NUMBER
DIST.

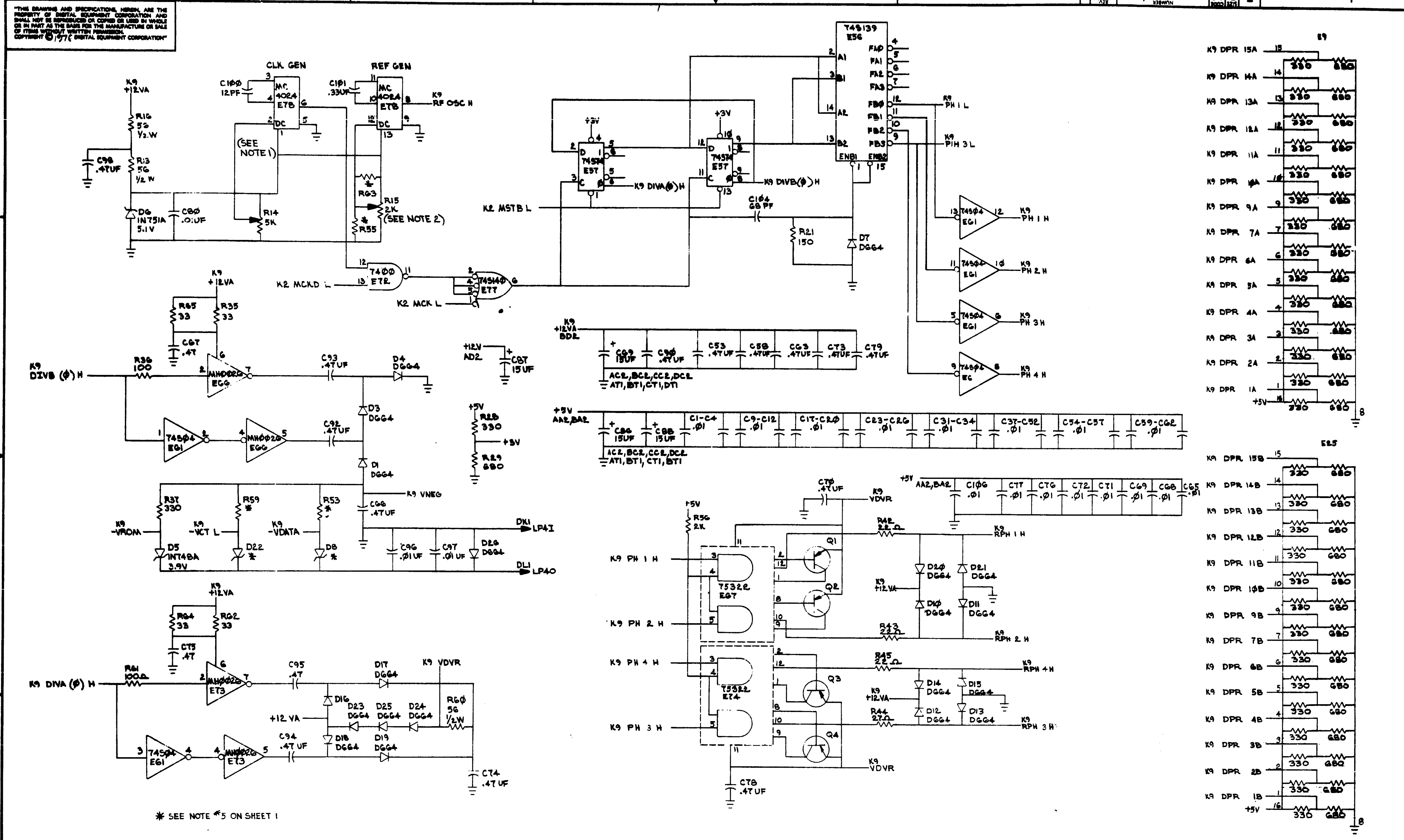


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LSI-11 CPU MODULE (K8)

SIZE	CODE	NUMBER	REV.
D	CS	M7264-Ø-1	Z

SCALE —/— SHEET 8 OF 9



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LSI-11 CPU MODULE (K9)

SIZE D CODE CS NUMBER M7264-Ø-1 REV. Z

SCALE — SHEET 9 OF 9

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. RILEY	CHECKED D. HEALY	SECTION 1	
DATE 7/11/75	DATE 9/8/75		
ENG [signature]	PROD Don DeRenne	ISSUED SECT. 1	
DATE 10/17/75	DATE 10/16/75		

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	B-PL-M7264-~~AA~~-Ø	PROCESSOR WITH 4K RAM MEMORY	1
2	A-PS-9905621-0-0	BOX, FOLDING, REVERSE TUCK	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
PROCESSOR WITH 4K RAM MEMORY	NONE	A	PL	KD11-F-Ø	C	KD11F-00006
	SHEET 1 OF 1	DIST.				

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

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY Liz Hevesh	CHECKED R. OLSEN	SECTION 1	
DATE 1/19/76	DATE 2-76		
ENG Richard E Olsen	PROD R. OLSEN	ISSUED SECT. 1	
DATE 1/29/76	DATE 2-6		

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	MP-0049	CUSTOMER PRINT SET KD11-F	1
2	DEC11-DVKAA-A-PB	BASIC INSTRUCTION TEST (PAPER TAPE)	*
3	DEC11-DVKAD-A-PB	TRAP TEST (PAPER TAPE)	*
4	DEC11-DZKMA-A-PB	MOS/CORE MEMORY TEST (PAPER TAPE)	*
~~5~~	~~EK-LSI-11-TM~~	~~LSI-11, PDP-11/03 USER'S MANUAL~~	~~*~~
~~6~~	~~EB-04870-75~~	~~LSI-11 PDP-11/03 PROCESSOR HANDBOOK~~	~~*~~
7	EH-04779-75	LSI-11 PROGRAMMING CARD	*
8	EB-Ø6583-76	MICROCOMPUTER HANDBOOK	*
9	DEC11-DVKAA-A-D	BASIC INSTRUCTION TEST DOCUMENT	*
10	DEC11-DVKAD-A-D	TRAP TEST DOCUMENT	*
11	DEC11-DZKMA-A-D	MOS/CORE MEMORY TEST DOCUMENT	*
		*NOTE: These items are shipped with first ship to customer.	

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
SHIPPING LIST KD11-F	SHEET 1 OF 1	A	PL	KD11-F-1	A	KD11-F-00003

DIST.

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

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

UNIT VARIATIONS COVERED BY THIS PRINT SET
KD11-H

KD11-H
Field Maintenance Print Set

Digital Equipment Corporation
PRINT SET ORDER NO
MP00050

REVISIONS

REV.	CHG. NO.	DATE
*	KD11-H-2	5-76
	ORIGINATED	
A	KD11H-5	1-78

USED ON OPTION/MODEL	
PDP11	

SHEET 1 OF 1

DRN. R RILEY	DATE 7-11-75
CHK'D Elizabeth Howard	DATE 5/4/76
PROJ. ENG. Elizabeth Howard	DATE 5/4/76
FIELD SERV. John Carlson	DATE 5/4/76

TITLE: PROC /no 4K RAM MEMORY

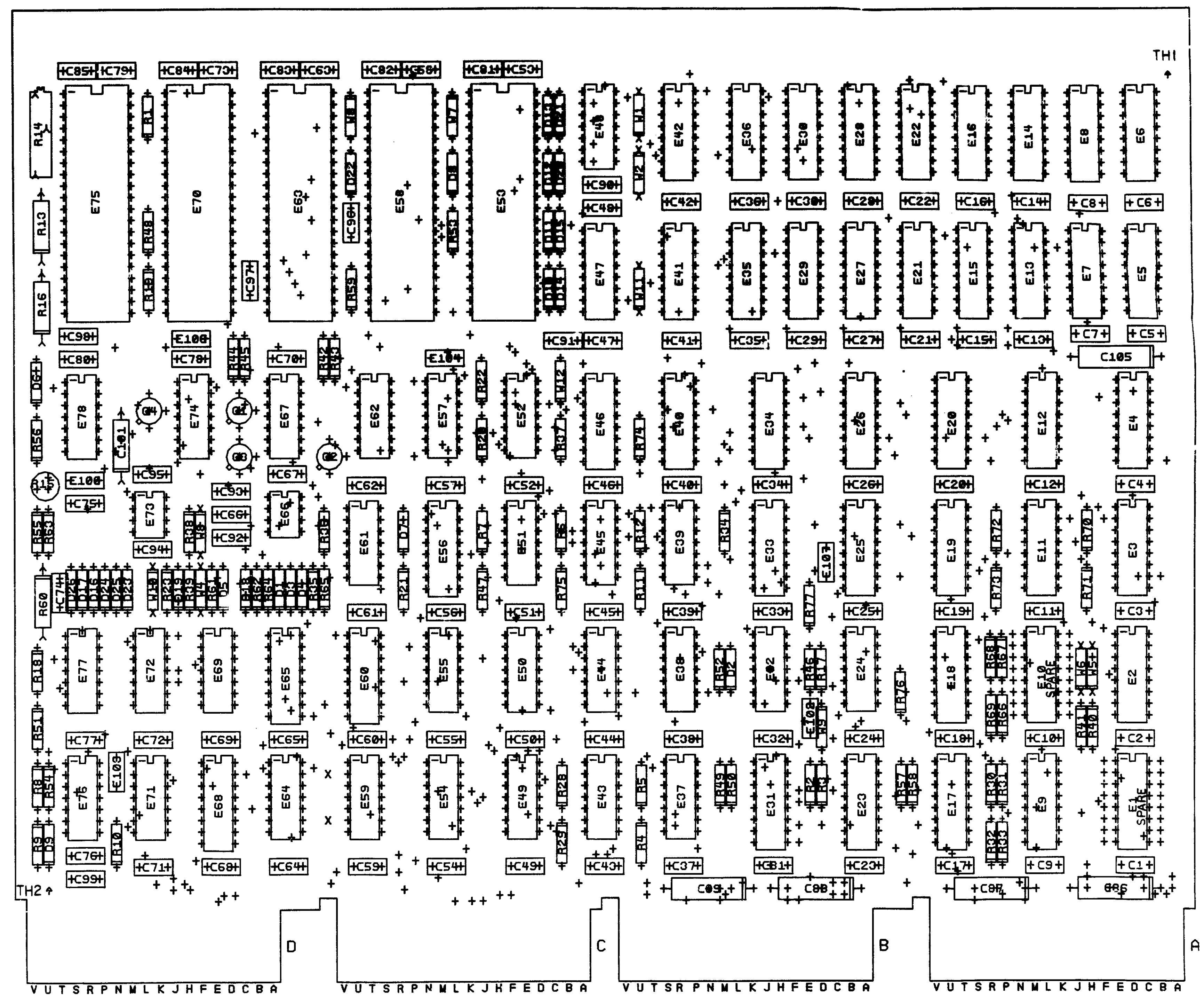
digital

SIZE	CODE	NUMBER	REV.
B	TC	B-TC-KD11-H-2	A

DIST.

EN-01124-16-N676-(327)

DRB 124



NOTES:
1. E1 AND E10 ARE SPARE I.C. LOCATIONS.
2. W1,W3,W4,W5,W6,W9,W10 AND W12 ARE OPTIONAL JUMPERS.
3. R53,R55,R59 AND R63 ARE OPTIONAL RESISTORS.
4. D8 AND D22 ARE OPTIONAL DIODES.

REV	CHANGE NO	CHK
Y	000017	
	D.BENNETT	
Z	M7264-19	K.T
	D.BENNETT	

HOLE DATA										
SYMBOL	–	⅄	X	↟	Z	H	Δ	⊡	◊	*
FIN HOLE SIZE	.038	.042	.032	.156						
PLATED	X	X		X						
NON PLATED			X							
QTY.	2243	11	18	2						
○-OFF GRD HLE										
DRILL SIZE										

BOARD FABRICATION INFORMATION	
PANEL SIZE	8.5 X QUAD
PANEL DATA DWG.#	D-MD-7605819-0-0
PANEL MAT'L	.052 THK.
QTY. OF LAYERS	FOUR
COPPER THICKNESS	ONE OUNCE
PTH. YES PRINT AND ETCH	NO
MODULE INSERTED 100 TIMES OR MORE?	NO

SIGNATURES		DATE
DRN.	JOHN LEPKOWSKI	6-6-77
CHK'D.		11-9-77
ENG.	R Bennett	11-9-77
PROJ.ENG.		11-9-77
PROD.		11-9-77
SCALE	2 TO 1	
SHT.	1 OF 3	
NEXT HIGHER ASSY.		

digital

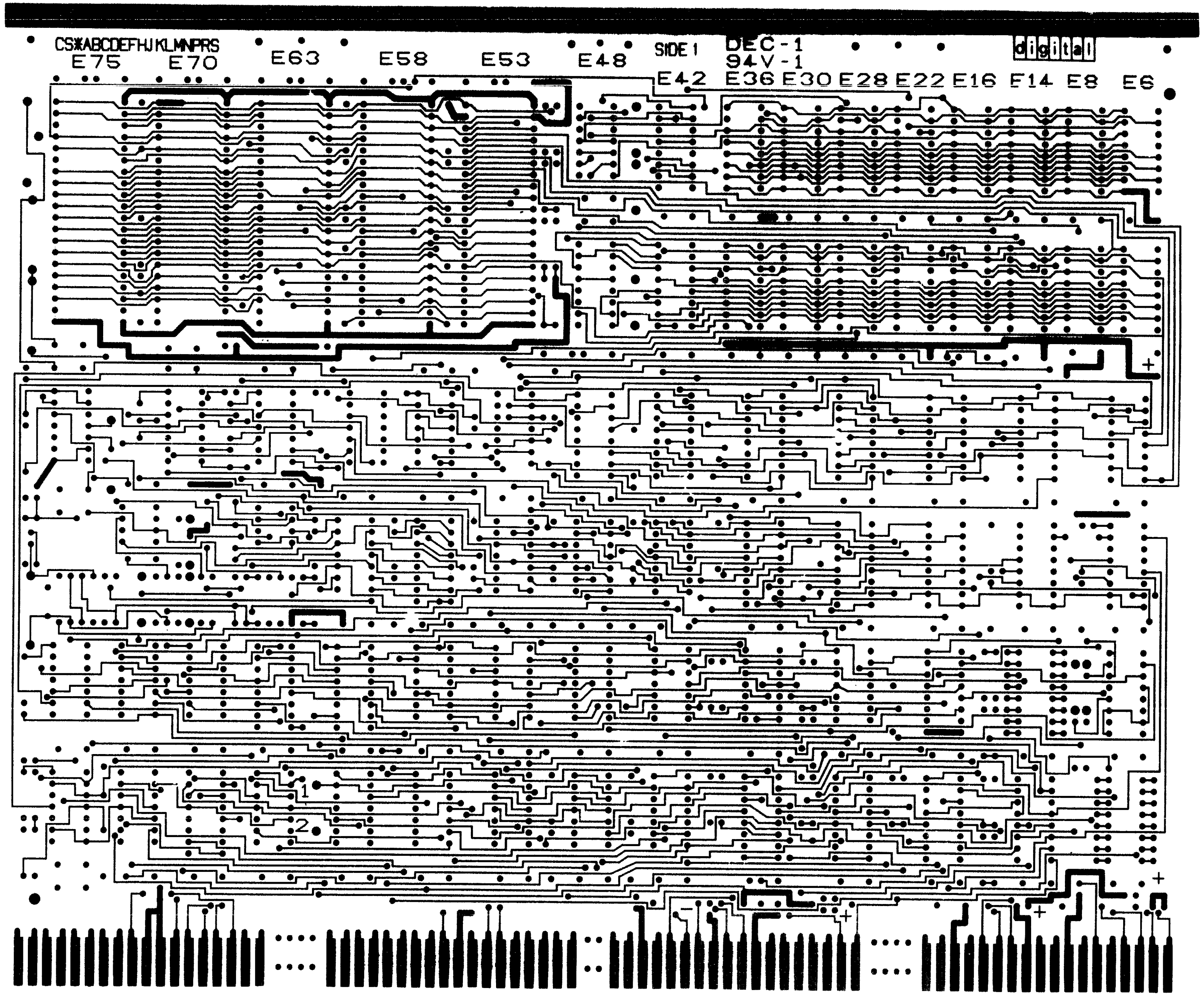
TITLE DRILL AND ETCH DRAWING

SIZE	CODE	NUMBER	REV
D	AH	M7264-0-5	Z

ETCH REV. F

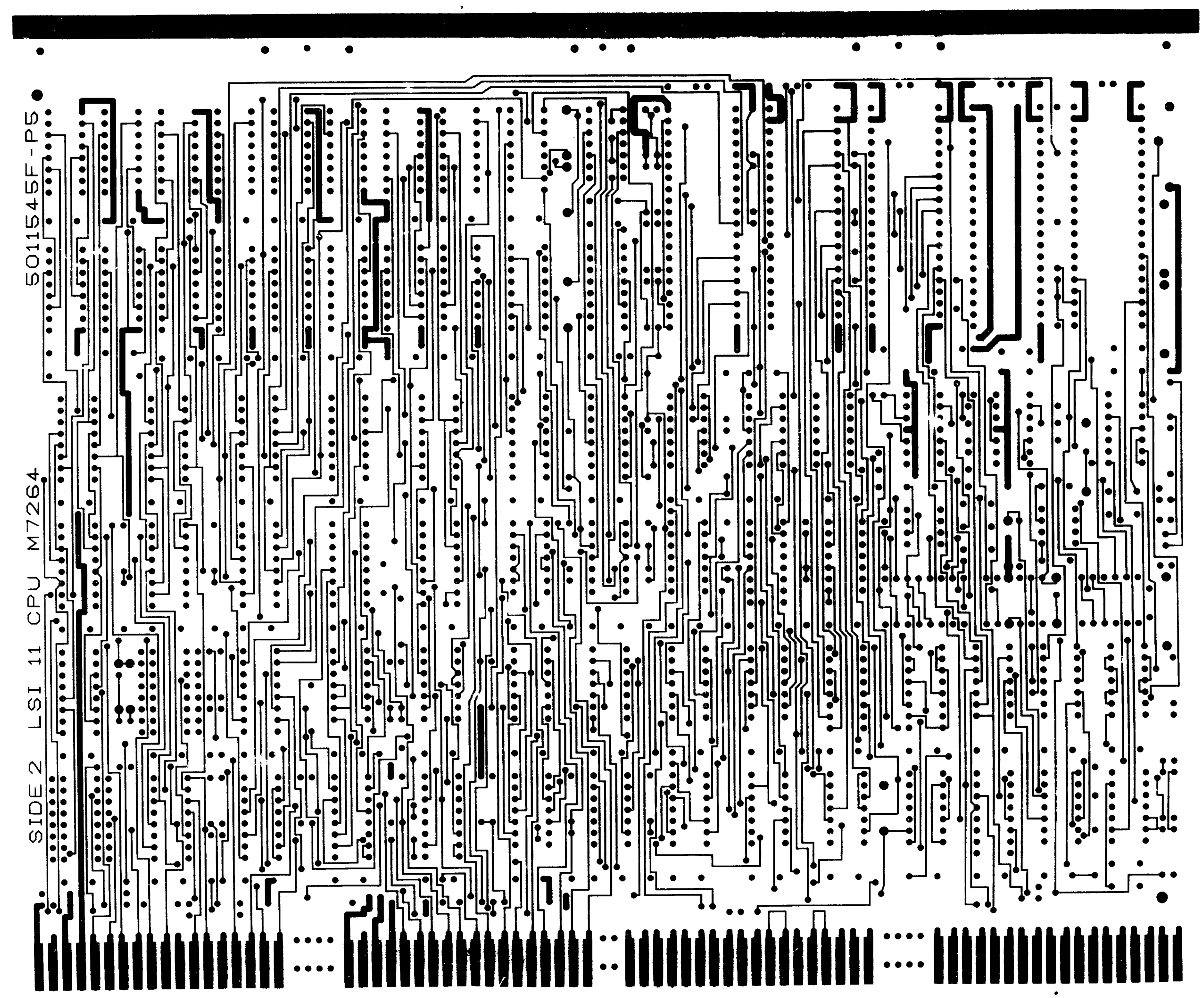
MS# N/A

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



REVISIONS

TITLE	SIZE	CODE	NUMBER	REV
LSI 11 CPU MODULE	D	AH	M7264-Ø-5	Z
SCALE NONE	SHEET 2 OF 3			



TITLE	SIZE	CODE	NUMBER	REV
LSI 11 CPU MODULE	D	AH	M7264-Ø-5	Z
SCALE NONE	SHEET 3 OF 3	DIST		

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY . D. ZWICKER DATE 22-DEC-77	CHECKED S. KITTLE DATE 22-DEC-77	SECTION 1	
ENG CHAO S. CHI DATE 22-DEC-77	PROD CHAO S. CHI DATE 22-DEC-77	ISSUED SECTION 1	

NOTES:

M7264-AA = M7264 or M7264-AB, or -CB, or -DB, or -EB, or -FB, or -HB, or -JB

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
1	K-CO-M7264-Ø-4		X-Y COORDINATING HOLE LOCATION	REF										REF		
2	D-AH-M7264-Ø-5		ASSY/DRILLING HOLE LAYOUT	REF										REF		
3	B-MH-M7264-Ø-6		MODULE ECO HISTORY	REF										REF		
4	D-CS-M7264-Ø-1		CIRCUIT SCHEMATIC	REF										REF		
5		5011545	ETCHED CIRCUIT BOARD	1	1	1	1	1	1	1	1	1	1	1		
6		1213113-01	HANDLE (SEE NOTE 9)	1	1	1	1	1	1	1	1	1	1	1		
7		9009185	JUMPER INSULATED	-	1	1	-	-	-	-	-	-	-	-		W9
8		9009185	JUMPER INSULATED	2	-	-	2	2	2	2	2	2	2	2		W7, W8
9		9009149-01	PIN STAKING	18	-	-	18	18	18	18	18	18	18	18		W1-W6, W10, W11, TP1, TP2
10		9009149-01	PIN STAKING	-	10	10	-	-	-	-	-	-	-	-		W3-W6, TP1, TP2
11		1212385-01	SOCKET, 40 PIN	5	5	5	5	5	5	5	5	5	5	5		E53, E58, E63, E7Ø, E75
12		9105740-55	WIRE, SOLID, INS., 30 AWG	-	1	1	-	-	-	-	-	-	-	-		W4
13		9105740-55	WIRE, SOLID, INS., 30 AWG	2	-	-	2	2	2	2	2	2	2	2		W2, W11
14		9000024-01	EYELET GS4-7	8	8	8	8	8	8	8	8	8	8	8		
15		1002087	CAPACITOR, 12pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1		C1ØØ
16		1000014	CAPACITOR, 68pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1		C1Ø4
17		1012121	CAPACITOR, 220pf, 100V, 1%	1	-	-	1	1	1	1	-	-	-	-		C1Ø3
18		1012121	CAPACITOR, 220pf, 100V, 1%	-	-	-	-	-	-	-	2	2	2	2		C1Ø2, C1Ø3
19		1000026	CAPACITOR, 680pf, 100V, 5%	1	-	-	1	1	1	1	-	-	-	-		C1Ø2
20		1002424	CAPACITOR, 1200pf, 100V, 5%	1	1	1	1	1	1	1	1	1	1	1		C1Ø7

E.C.O. NO. 00019

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 1 OF 6	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY	D. ZWICKER	CHECKED	S. KITTLE	SECTION
DATE	22-DEC-77	DATE	22-DEC-77	1
ENG	CHAO S. CHI	PROD	CHAO S. CHI	ISSUED SECTION
DATE	22-DEC-77	DATE	22-DEC-77	1

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
21		1001610	CAPACITOR, .01uf, 50V 10%	57	-	-	57	57	57	57	57	57	57	57		C1-C4, C9-C12, C17-C2Ø, C23-C26,C31-C34, C37-C52, C54-C57, C59-C62, C64, C65,C68, C71, C72, C76, C77,C8Ø,C96,C97,C99,C1Ø6
22		1001610	CAPACITOR, .01uf, 50V, 10%	-	52	52	-	-	-	-	-	-	-	-		C1-C4, C9-C12, C17-C2Ø, C23-C26,C31-C34, C37, C38, C39, C43-C52, C54-C57,C59-C62, C64, C65, C68, C69, C71, C72, C77, C8Ø, C96, C97, C1Ø6
23		1010031-04	CAPACITOR, .33uf,50V,10%,POLYCARB	1	1	1	1	1	1	1	1	1	1	1		C1Ø1
24		1010279	CAPACITOR, .47uf, 25V, 20%	39	-	-	39	39	39	39	39	39	39	39		C5-C8, C13-C16, C21, C22, C27-C3Ø, C35, C36, C53, C58, C63, C66, C67, C7Ø, C73-C75, C78, C79, C81-C85,C9Ø-C95,C98
25		1010279	CAPACITOR, .47uf, 25V, 20%	-	23	23	-	-	-	-	-	-	-	-		C53, C58, C63, C66, C67, C7Ø, C73, C74, C75, C78, C79, C81-C85, C9Ø-C95, C98
26		1004812	CAPACITOR, 15uf, 20V, 10%	5	-	-	5	5	5	5	5	5	5	5		C86-C89, C1Ø5
27		1004812	CAPACITOR, 10uf, 20V, 10%	-	4	4	-	-	-	-	-	-	-	-		C86-C89
28																
29		1311003-02	RESISTOR, NTWK, 14-330, 14-680	2	2	2	2	2	2	2	2	2	2	2		E9, E25
30		1301317	RESISTOR, 10 ohm, 1/4W, 5%	2	-	-	2	2	2	2	-	-	-	-		R11, R12
31		1301969	RESISTOR, 22 ohm, 1/4W, 5%	-	-	-	-	-	-	-	2	2	2	2		R11, R12
32		1301969	RESISTOR, 22 ohm, 1/4W, 5%	3	3	3	3	3	3	3	3	3	3	3		R42-R45
33		1301522	RESISTOR, 27 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1		R44
34		1300197	RESISTOR, 33 ohm, 1/4W, 5%	4	4	4	4	4	4	4	4	4	4	4		R35, R62, R64, R65
35		1305121	RESISTOR, 38.3 ohm, RN55, 1%	1	-	-	1	1	1	1	1	1	1	1		R9
36		1309995	RESISTOR, 56 ohm, 1/2W, 5%	3	3	3	3	3	3	3	3	3	3	3		R13, R16, R5Ø

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 2 OF 6	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY D. ZWICKER DATE 22-DEC-77	CHECKED S. KITTLE DATE 22-DEC-77	SECTION 1
ENG CHAO S. CHI DATE 22-DEC-77	PROD CHAO S. CHI DATE 22-DEC-77	ISSUED SECTION 1

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
37		1300229	RESISTOR, 100 ohm, 1/4W, 5%	2	2	2	2	2	2	2	2	2	2	2		R36, R61
38		1303038	RESISTOR, 133 ohm, RN55, 1%	2	-	-	2	2	2	2	2	2	2	2		R8, R1Ø
39		1300250	RESISTOR, 150 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1		R21
40		1309787	RESISTOR, 249 ohm, RN55, 1%	-	-	-	-	-	-	-	1	1	1	1		R47
41		1301972	RESISTOR, 270 ohm, 1/4W, 5%	1	-	-	1	1	1	1	1	1	1	1		R54
42		1300295	RESISTOR, 330 ohm, 1/4W, 5%	13	13	13	13	13	13	13	13	13	13	13		R2, R4, R28, R3Ø, R32, R37, R49, R58, R66, R68, R7Ø, R72, R77
43		1300316	RESISTOR, 470 ohm, 1/4W, 5%	1	1	1	1	1	1	1	1	1	1	1		R34
44		1301424	RESISTOR, 680 ohm, 1/4W, 5%	-	15	15	-	-	-	-	-	-	-	-		R3, R5, R2Ø, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76
45		1301424	RESISTOR, 680 ohm, 1/4W, 5%	17	-	-	17	17	17	17	17	17	17	17		R3, R5, R6, R2Ø, R23, R29, R31, R33, R5Ø-R52, R57, R67, R69, R71, R73, R76
46		1302685	RESISTOR, 909 ohm, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-		R47
47		1301320	RESISTOR, 1.2K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-		R17
48		1309295	RESISTOR, 1.8K, RN55, .1%	-	-	-	-	-	-	-	1	1	1	1		R46
49		1302388	RESISTOR, 2K, 1/4W, 5%	12	12	12	12	12	12	12	12	12	12	12		R1, R18, R19, R22, R38-R41, R48, R56, R74, R75
50		1304854	RESISTOR, 5.11K, RN55, 1%	1	-	-	1	1	1	1	-	-	-	-		R46
51		1301423	RESISTOR, 6.8K, 1/4W, 5%	1	-	-	1	1	1	1	-	-	-	-		R7
52																
53		1309150-07	POT, 2K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1		R15
54		1309143-09	POT, 5K, 1/2W, 10%	1	1	1	1	1	1	1	1	1	1	1		R14

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z

INSERTION PARTS LIST DATA BASE REV

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY D. ZWICKER DATE 22-DEC-77	CHECKED S. KITTLE DATE 22-DEC-77	SECTION 1	NOTES:
ENG CHAO S. CHI DATE 22-DEC-77	PROD CHAO S. CHI DATE 22-DEC-77	ISSUED SECTION 1	

QUANTITY / VARIATION

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
55																
56																
57		1100122	DIODE, IN748A, 3.9V, 5%	1	1	1	1	1	1	1	1	1	1	1		D5
58		1100114	DIODE, 664	20	20	20	20	20	20	20	20	20	20	20		D1, D3, D4, D7, D1Ø-D21, D23-D26
59		1110994	DIODE, IN751A, 5.1V, 5%	3	-	-	3	3	3	3	3	3	3	3		D2, D6, D9
60		1110994	DIODE, IN751A, 5.1V, 5%	-	1	1	-	-	-	-	-	-	-	-		D6
61																
62		1512971	TRANSISTOR, PNP, 4260	4	4	4	4	4	4	4	4	4	4	4		Q1-Q4
63																
64		1905575	I.C. DEC 74ØØ	3	3	3	3	3	3	3	3	3	3	3		E38, E45, E72
65		1910532	I.C. DEC 74SØØ	1	1	1	1	1	1	1	1	1	1	1		E24
66		1909686	I.C. DEC 74Ø4	1	1	1	1	1	1	1	1	1	1	1		E69
67		1910534	I.C. DEC 74SØ4	3	3	3	3	3	3	3	3	3	3	3		E37, E59, E61
68		1910535	I.C. DEC 74SØ5	1	1	1	1	1	1	1	1	1	1	1		E51
69		1010536	I.C. DEC 74S1Ø	-	2	2	-	-	-	-	-	-	-	-		E55, E62
70		1910536	I.C. DEC 74S1Ø	3	-	-	3	3	3	3	3	3	3	3		E48, E55, E62
71		1910537	I.C. DEC 74S11	1	1	1	1	1	1	1	1	1	1	1		E32
72		1912811	I.C. DEC 74LS21	1	1	1	1	1	1	1	1	1	1	1		E52
73		1910046	I.C. DEC 7442	1	1	1	1	1	1	1	1	1	1	1		E68
74		1905547	I.C. DEC 7474	5	5	5	5	5	5	5	5	5	5	5		E43, E44, E49, E64, E71

E.C.O. NO.

TITLE LSI-11 CPU MODULE	ASSY NO. D-AH-M7264-Ø-5	SIZE B	CODE PL	NUMBER M7264-Ø-Ø	REV. Z
	SHEET 4 OF 6	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY	D. ZWICKER	CHECKED	S. KITTLE	SECTION
DATE	22-DEC-77	DATE	22-DEC-77	1
ENG	CHAO S. CHI	PROD	CHAO S. CHI	ISSUED SECTION
DATE	22-DEC-77	DATE	22-DEC-77	1

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		REF DESIGNATION
				QUANTITY / VARIATION												
75		1910544	I.C. DEC 74S74	3	3	3	3	3	3	3	3	3	3	3		E5Ø, E54, E57
76		1909050	I.C. DEC 7475	4	-	-	4	4	4	4	4	4	4	4		E26, E4Ø, E42, E47
77		1911195	I.C. DEC 7497	1	1	1	1	1	1	1	1	1	1	1		E65
78		1911676	I.C. DEC 74S139	1	1	1	1	1	1	1	1	1	1	1		E56
79		1910546	I.C. DEC 74S14Ø	-	1	1	-	-	-	-	-	-	-	-		E77
80		1910546	I.C. DEC 74S14Ø	2	-	-	2	2	2	2	2	2	2	2		E39, E77
81		1910550	I.C. DEC 74S174	1	1	1	1	1	1	1	1	1	1	1		E [illegible]
82		1911641	I.C. DEC 74S257	-	5	5	-	-	-	-	-	-	-	-		E2, E4, E12, E2Ø, E34
83		1911641	I.C. DEC 74S257	7	-	-	7	7	7	7	7	7	7	7		E2, E4, E12, E2Ø, E34, E41, E46
84		1910268	I.C. DEC 751Ø7	1	-	-	1	1	1	1	1	1	1	1		E76
85		1912955	I.C. DEC 75322	2	2	2	2	2	2	2	2	2	2	2		E67, E74
86		1911116	I.C. DEC 8837	1	1	1	1	1	1	1	1	1	1	1		E31
87		1911579	I.C. DEC 8641	7	7	7	7	7	7	7	7	7	7	7		E3, E11, E17-E19, E23, E33
88		1911038	I.C. DEC MC4Ø24	1	1	1	1	1	1	1	1	1	1	1		E78
89		1912098	I.C. DEC MHØØ26	2	2	2	2	2	2	2	2	2	2	2		E66, E73
90																
91																
92		2112726	I.C. DEC, 4K RAM	16	-	-	-	16	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
93		2112958-01	I.C. DEC, 4K RAM	-	-	-	16	-	-	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z
	SHEET 5 OF 6	INSERTION PARTS LIST DATA BASE REV			

DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY D. ZWICKER DATE 22-DEC-77	CHECKED S. KITTLE DATE 22-DEC-77	SECTION 1
ENG CHAO S. CHI DATE 22-DEC-77	PROD CHAO S. CHI DATE 22-DEC-77	ISSUED SECTION 1

NOTES:

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	QUANTITY / VARIATION												REF DESIGNATION
				M7264	M7264-YA	M7264-YB	M7264-AB	M7264-BB	M7264-CB	M7264-DB	M7264-EB	M7264-FB	M7264-HB	M7264-JB		
94		2113787-01	I.C. DEC, 4K RAM	-	-	-	-	-	16	-	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
95		2113795-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	16	-	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
96		2113735-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	16	-	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
97		2112914-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	-	16	-	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
98		2114114-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	-	-	16	-		E5-E8, E13-E16, E21, E22, E27-E3Ø, E3[illegible], E36
99		2114475-01	I.C. DEC, 4K RAM	-	-	-	-	-	-	-	-	-	-	16		E5-E8, E13-E16, E21, E22, E27-E3Ø, E35, E36
100																
101																
102																
103		2111549-01	I.C. DEC, CP1611B39	1	1	1	1	1	1	1	1	1	1	1		E53
104		23002C4	I.C. DEC, CP1621B17	1	1	1	1	1	1	1	1	1	1	1		E58
105		23001B5	I.C. DEC, CP1631B1Ø3	1	1	-	1	-	1	1	1	1	1	1		E63
106		23002B5	I.C. DEC, CP1631BØ73	1	1	-	1	-	1	1	1	1	1	1		E7Ø
107		23003B6	I.C. DEC, CP1631B	-	-	1	-	1	-	-	-	-	-	-		E63

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D-AH-M7264-Ø-5	B	PL	M7264-Ø-Ø	Z

INSERTION PARTS LIST DATA BASE REV

DRB 125

NOTES:

NOTES:

1. ADJUST R14 SO THAT THE FREQUENCY MEASURED AT E57 PIN 6 IS 2.5 MHZ MIN TO 2.631 MHZ MAX. THE MODULE MAY BE OPERATED AT OTHER FREQUENCIES FOR TEST PURPOSE ONLY. SEE SHEET(K-9) MANUFACTURING ADJUSTS TO 2.591 MIN TO 2.631 MAX.
2. ADJUST R15 SO THAT THE REFRESH FREQUENCY MEASURED AT E78 PIN 8 IS 625 HZ ± 20 HZ. SEE SHEET (K-9).
3. TIME DELAY FROM FALLING EDGE ON E51 PIN 9 TO FALLING EDGE ON E78 PIN 4 SHOULD BE 110 TO 140 NS. R7 MAY BE REMOVED TO INCREASE THE DELAY SLIGHTLY IF LESS THAN 110 NS IS MEASURED. SEE SHEET (K-5).
4. JUMPER FUNCTIONS AND CONFIGURATION ARE AS FOLLOWS:

JUMPER SELECT FEATURES

JUMPER	SELECTION WHEN INSTALLED	OPTION	SHIPPING STATUS M7264(REV E)	-YA
W1	RESIDENT MEMORY BANK 1	C.O.	R	R
W2	RESIDENT MEMORY BANK Ø	C.O.	I	R
W3	DISABLE EVENT LINE	C.O.	R	R
W4	DISABLE MEMORY REFRESH	C.O.	R	I
W5	~~POWER-UP MODE SELECT~~	C.O.	R	R
W6	POWER UP MODE SELECT	C.O.	R	R
W7	BIASING VOLTAGE VDATA = VROM	F.O.	I	I
W8	BIASING VOLTAGE VCTL = VROM	F.O.	I	I
W9	DISABLE REPLY FROM RESIDENT MEMORY	F.O.	R	I
W10	DISABLE REPLY DURING REFRESH *	C.O.	R	R
W11	ENABLE ON BOARD MEMORY SELECT	C.O.	I	R

* INSTALLED IF RESIDENT RAM IS NOT THE SLOWEST REPLY IN THE SYSTEM.

POWER-UP MODES

MODE	JUMPERS W6	W5	MODE SELECT
0	R	R	PC AT 24 AND PS AT 26, OR HALT MODE
1	R	I	ODT MICROCODE
2	I	R	PC AT 173000 FOR USER BOOT STRAP
3	I	I	SPECIAL PROCESSOR MICROCODE (not implemented)

I; INSTALLED
R; REMOVED
C.O.; CUSTOMER OPTION
F.O.; FACTORY OPTION

5. COMPONENTS ARE NOT INSTALLED (RESERVED OPTION) UNLESS SPECIFICALLY INSTRUCTED.
6. DELETED FOR M7264-YA VERSION
7.

M7264	-3.9 VBB FOR LSI CHIP SET, -5 VBB FOR MOSTEK 4K RAM
M7264-YA	-3.9 VBB FOR LSI CHIP SET, NO ON-BOARD RAM
M7264-AB	-3.9 VBB FOR LSI CHIP SET, -5 VBB FOR INTEL 4K RAM
M7264-BB	SAME AS M7264 EXCEPT E58, 63, & 70
M7264-YB	SAME AS M7264-YA EXCEPT E58, 63 & 70

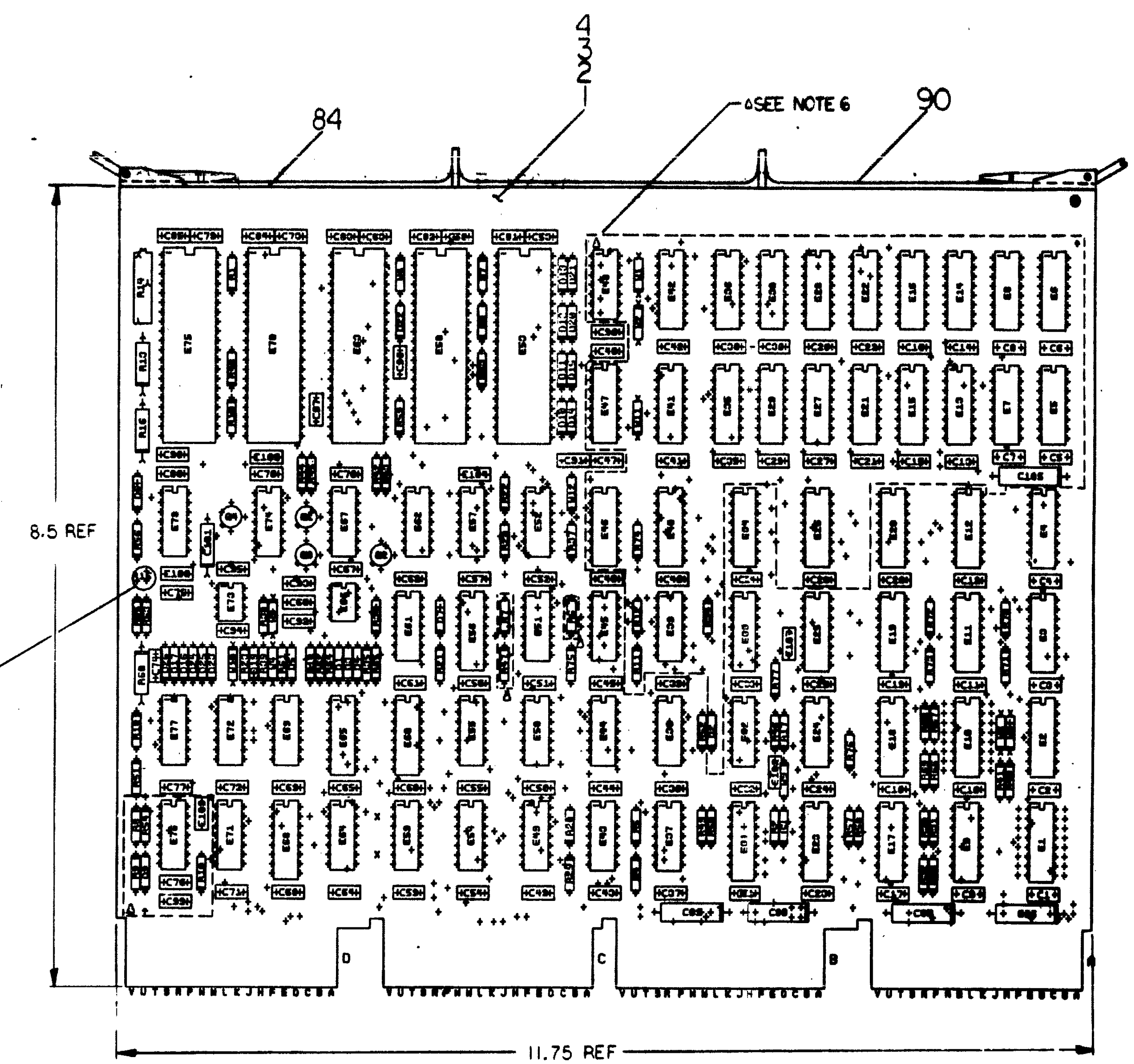
8 SIGNAL DESIGNATION
XX YYY Z
Z — H (HIGH), L (LOW) WHEN ASSERTED
YYY — SIGNAL NAME
XX — SIGNAL ORIGIN (PAGE) IDENTIFIER

9.

ALTERNATE PARTS CHART

ITEM*	PREFERRED PART	ALTERNATE PART
90	1213113-01	7413826-00 AND -01
9, 10	1001610-00	1001610-01
82, 83	9009149-01	9009149

10. THE 23ØØ2B6 IS AN ALLOWABLE SUBSTITUTION FOR THE 23ØØ3B6 ON THE M7264-BB AND M7264-YB. THE 23ØØ3B6 IS PREFERRED.



IC TYPE	GND	+5V	+12 V
4K RAM	16	9	8
DEC MHØØ26	3		
DEC 75322	7	14	
DEC 7497	8	16	
DEC 8641	8	16	
DEC 74S257	8	16	
DEC 74S174	8	16	
DEC 74S140	7	14	
DEC 74S139	8	16	
DEC 7475	12	5	
DEC 74S74	7	14	
DEC 7474	7	14	
DEC 7442	8	16	
DEC 74S11	7	14	
DEC 74S1Ø	7	14	
DEC 8837	8	16	
DEC 74SØ5	7	14	
DEC 74SØ4	7	14	
DEC 74SØØ	7	14	
DEC 74ØØ	7	14	

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

IC PIN LOCATIONS

SEMICONDUCTOR CONVERSION CHART

PARTS LIST

digital

TITLE LSI-11 CPU MODULE

D CS M7264-0-1 REV Y

SHEET 1 OF 10

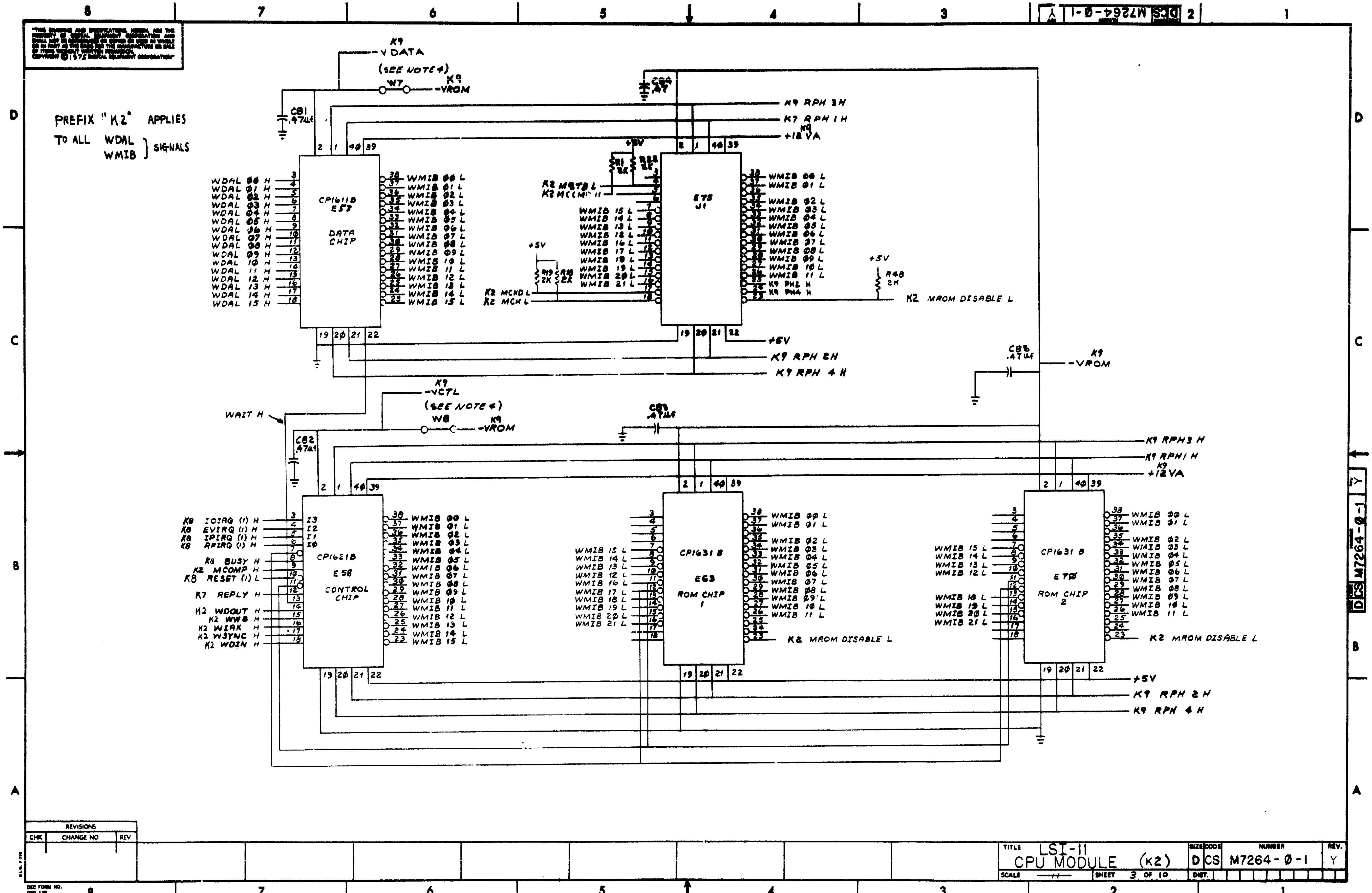
DEC FORM NO. DRD 135.B

QTY M7264-DB	QTY M7264-CB	QTY M7264	QTY M7264-AB	QTY M7264-YA	QTY M7264-BB	QTY M7264-YB	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
							~~D8~~	~~DIODE, IN751A, 5.1V, 5%~~	~~1110094~~	~~43~~
—	—	—	—	1	—	1	D6	DIODE, IN751A, 5.1V, 5%	1110094	44
3	3	3	3	—	3	—	D2, D6, D8	DIODE, IN751A, 5.1V,5%	1110094	45
4	4	4	4	4	4	4	Q1 THRU Q4	TRANSISTOR PNP, HIGH SPEED	1512871	46
3	3	3	3	3	3	3	E38, E45, E72	I.C. DEC 7400	1905575	47
1	1	1	1	1	1	1	E24	I.C. DEC 74S00	1910532	48
2	2	2	2	2	2	2	E37, E63	I.C. DEC 7404	[illegible]	49
2	2	2	2	2	2	2	E81, E59	I.C. DEC 74S04	1910534	50
1	1	1	1	1	1	1	E51	I.C. DEC 74S05	1910535	51
1		1	1	1	1	1	E31	I.C. DEC 8837	1911110	52
—	—	—	—	2	—	2	E56, E82	I.C. DEC 74S10	1910536	53
3	3	3	3	—	3	—	E40, E55, E62	I.C. DEC 74S10	1910536	54
1		1	1	1	1	1	E32	I.C. DEC 74S11	1910537	55
1		1	1	1	1	1	E80	I.C. DEC 7442	1910048	56
5	5	5	5	5	5	5	E43, E44, E48, E84, E71	I.C. DEC 7474	1905547	57
3	3	3	3	3	3	3	E50, E54, E57	I.C. DEC 74S74	1910544	58
4	—	4	4	—	4	—	E28, E40, E42, E47	I.C. DEC 7475	1908050	59
1	1	1	1	1	1	1	E58	I.C. DEC 74S138	1911676	60
2	2	2	2	—	2	—	E39, E77	I.C. DEC 74S148	1910546	61
—	—	—	—	1	—	1	E77	I.C. DEC 74S148	1910546	62
1	1	1	1	1	1	1	E80	I.C. DEC 74S174	1910550	63
7	7	7	7	—	7	—	E2, E4, E12, E20,E34,E41,E46	I.C. DEC 74S257	1911641	64
—	—	—	—	5	—	5	E2, E4, E12, E20, E34	I.C. DEC 74S257	1911641	65
1		1	1	—	1	—	E76	I.C. DEC 75107	1910288	66
7	7	7	7	7	7	7	E3,E11,E17,E18,E19,E23,E33	I.C. DEC 8641	1911579	67
1	1	1	1	1	1	1	E85	I.C DEC 7407	1911195	68
1	1	1	1	1	1	1	E78	I.C. DEC MC4024	1911038	69
2	2	2	2	2	2	2	E87, E74	I.C. DEC 75322	1912855	70
2	2	2	2	2	2	2	E86, E73	I.C. DEC MH0026	1912088	71
—		—	16	—	—	—	E5 THRU E8, E13 THRU E16 E21,E22, E27 THRU E30, E35, E36	I.C. DEC 4K, RAM, +5VBB	2112958-01	72
—	—	16	—	—	16	—	E5 THRU E8, E13 THRU E16 E21,E22,E27 THRU E30, E35 E36	I.C. DEC 4K, RAM, -5VBB	2112726-00	73
							~~[illegible]~~	~~I.C. DEC CP1611B-51~~	~~[illegible]~~	~~74~~
1	1	1	1	1	1	1	E58	I.C. DEC CP1621B17	2300204	75
—	—	—	—	—	1	1	E63	I.C. DEC CP1631B	23003B6	76
					~~1~~		~~[illegible]~~	~~I.C. DEC CP1601B-2007~~	~~[illegible]-01~~	~~77~~
1	1	1	1	1	1	1	E53	I.C. DEC CP1611B-39	2111549-01	78
		~~1~~	~~1~~	~~1~~			~~[illegible]~~	~~I.C. DEC CP1621B-438~~	~~[illegible]~~	~~79~~
1		1	1	1	—	—	E83	I.C. DEC CP1631B103	2300185	80
1	1	1	1	1	—	—	E70	I.C. DEC CP1631B073	2300285	81
18	[illegible]	[illegible]	18	—	[illegible]	—	W1 THRU W6, W10, [illegible] TP2	PIN STAKING	9009149-01	82
—	—	—	—	10	—	10	W3 THRU W6, [illegible]	PIN STAKING	9009149-01	83
8	8	8	8	8	8	8		EYELET GS4 - 7	9006732	84
2	2	2	2	2	2	2	W7, W8	JUMPER, INSULATED	9009185	85
		~~1~~	~~1~~	~~1~~	~~1~~			~~HANDLE, LEFT~~	~~7413828-00~~	~~86~~
		~~1~~	~~1~~	~~1~~	~~1~~			~~HANDLE, RIGHT~~	~~7413828-01~~	~~87~~
5	5	5	5	5	5	5	E53,E58,E63,E70,E75	SOCKET 40 PIN	1212385-01	88
1	1	1	1	1	1	1	R44	RESISTOR, 27 OHM, 1/4 5%	1301522	89
1	1	1	1	1	1	1	(SEE NOTE 9)	HANDLE	1213113-01	90
~~A/R~~	~~A/R~~	~~A/R~~	~~A/R~~	~~A/R~~	~~A/R~~	~~A/R~~		~~PERMABOND 240 ADHESIVE~~	~~4001230~~	~~91~~
—	16	—	—	—	—	—	E5 THRU E8,E13 THRU E16, E21,E22,E27 THRU E30, E35, E36	I.C. DEC 4K, RAM, -5VBB	2113787-01	92
16	—	—	—	—	—	—	E5 THRU E8,E13 THRU E16, E21,E22,E27 THRU E30, E35, E36	I.C. DEC 4K, RAM, -5VBB	2113795-01	93
1		1	1	1	1	1	C107	CAPACITOR 1200pf,100V,5%	1002424	94
1	[illegible]	1	1	1	1	1	E52	I.C. DEC 74LS21	1912811	[illegible]
				1		1	W9	JUMPER, INSULATED	9009185	96

QTY M7264-DB	QTY M7264-CB	QTY M7264	QTY M7264-AB	QTY M7264-YA	QTY M7264-BB	QTY M7264-YB	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF	REF	REF	REF	REF	REF	REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7264-0-4	1
REF	REF	REF	REF	REF	REF	REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M7264-0-5	2
REF	REF	REF	REF	REF	REF	REF		MODULE ECO HISTORY	B-MH-M7264-0-6	3
1	1	1	1	1	1	1		ETCHED CIRCUIT BOARD	5011545	4
1	1	1	1	1	1	1	C100	CAPACITOR, 12pf, 100V, 5%	1002087	5
1	1	1	1	1	1	1	C104	CAPACITOR, 82pf, 100V, 5%	1000014	6
1	1	1	1	—	1	—	C103	CAPACITOR, 220pf, 100V, 1%	1012121	7
1	1	1	1	—	1	—	C102	CAPACITOR, 680pf, 100V, 5%	1000026	8
57	57	57	57	—	57	—	C1 THRU C4, C9 THRU C12, C17 THRU C20, C23 THRU C26, C31 THRU C34, C37 THRU C52, C54 THRU C57, C59 THRU C62, C64 C65, C99, C68, C71, C72, C106, C76, C77, C80, C96, C97	CAPACITOR, .01uf, 50V, 10%	1001610-00	9
—	—	—	—	52	—	52	C1 THRU C4, C9 THRU C 12, C17 THRU C20, C23 THRU C26, C31 THRU C34, C37, C38, C39, C43 THRU C52, C54 THRU C57, C59 THRU C62, C64, C65, C97, C68, C69, C71, C72, C106, C77, C80, C96	CAPACITOR, .01uf, 50V, 10%	1001610-00	10
1	1	1	1	1	1	1	C101	CAPACITOR, .33uf, 50V, 10% POLYCARB	1010031-4	11
39	39	39	39	—	39	—	C5 THRU C8, C13 THRU C16, C21 C22, C27 THRU C30, C35, C36, C53, C58, C63, C66, C70, C73,C74 C78, C79, C81,THRU C85, C90 THRU C95, C98, C67, C75	CAPACITOR, .47uf, 25V, 20%	1010279	12
—	—	—	—	23	—	23	C53,C58,C63,C66, C70, C73,C74 C78,C79,C81,THRU C85, C90 THRU C95, C98, C67, C75	CAPACITOR, .47uf, 25V, 20%	1010279	13
5	5	5	5	—	5	—	C86 THRU C89, C105	CAPACITOR, 15uf, 20V, 10%	1004812	14
—	—	—	—	4	—	4	C86 THRU C89	CAPACITOR, 15uf, 20V, 10%	1004812	15
2	2	2	2	2	2	2	E9, E25	RESISTOR NTWK, 14-330, 14-680	1311003-02	16
2	2	2	2	—	2	—	R11, R12	RESISTOR, 10 OHM, 1/4W, 5%	1301317	17
				~~1~~			~~R45~~	~~RESISTOR, 10 OHM, 1/4W, 5%~~	~~1301317~~	~~18~~
3	3	3	3	3	3	3	R42, R43, R45	RESISTOR, 22 OHM, 1/4W, 5%	1301969	19
4	4	4	4	4	4	4	R35,R62, R64, R65	RESISTOR, 33 OHM, 1/4W, 5%	1300197	20
1	1	1	1	—	1	—	R9	RESISTOR, 38.3 OHM, RN55, 1%	1305121	21
1	1	1	1	—	1	—	R54	RESISTOR, 270 OHM, 1/4W, 5%	1301972	22
3	3	3	3	3	3	3	R13, R16, R60	RESISTOR, 56 OHM, 1/2W, 5%	1309995	23
2	2	2	2	2	2	2	R36, R61	RESISTOR, 100 OHM, 1/4W, 5%	1300229	24
2	2	2	2	—	2	—	R8, R10	RESISTOR, 133 OHM, RN55, 1%	1303038	25
1	1	1	1	1	1	1	R21	RESISTOR, 150 OHM, 1/4W, 5%	1300250	26
13	13	13	13	13	13	13	R2,R4,R28,R30,R32,[illegible],R49,R58, [illegible],R70,R72,R77	RESISTOR, 330 OHM, 1/4W 5%	1300295	27
17	17	17	17	—	17	—	R3,R5,R6,R20,R23,R29,R31 R33,R50,R51,R52,R57,R67,R69 R71,R73,R76	RESISTOR, 680 OHM, 1/4W, 5%	1301424	28
—	—	—	—	15	—	15	R3,R5,R20,R29,R31,R33,R50 R51,R52,R57,R67,R69,R71,R73,R76	RESISTOR, 680 OHM, 1/4W, 5%	1301424	29
1	1	1	1	—	1	—	R47	RESISTOR, 909 OHM, RN55, 1%	1302685	30
1	1	1	1	—	1	—	R34	RESISTOR, 47[illegible], 1/4W,5%	1300316	31
—	—	—	—	1	—	1	R34	RESISTOR, 470, 1/4W, 5%	1300316	32
1	1	1	1	—	1	—	R17	RESISTOR, 1.2K, 1/4W, 5%	1301320	33
12	12	12	12	12	12	12	R1,R18,R19,R22,R38 THRU R41,R48,R56,R74,R75	RESISTOR, 2K, 1/4W, 5%	1302388	34
1	1	1	1	1	1	1	R15	POT, 2K, 1/2W, 10%	1309150-07	35
1	1	1	1	1	1	1	R14	POT, 5K, 1/2W, 10%	1309143-09	36
1	1	1	1	—	1	—	R46	RESISTOR, 5.11K, RN55, 1%	1304854	37
1	1	1	1	—	1	—	R7	RESISTOR, 6.8K, 1/4W, 5%	1301423	38
2	2	2	2	—	2	—	W2, W11	WIRE, SOLID INS. #.30 AWG	9105740-55	39
—	—	—	—	1	—	1	W4	WIRE, SOLID INS. # 30 AWG	9105740-55	40
1	1	1	1	1	1	1	D5	DIODE, IN748A, 3.9V, 5%	1100122	41
20	20	20	20	20	20	20	D1,D3,D4,D7,D10 THRU D21, D23,D24,D25,D26	DIODE, D664	1100114	42

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE	D	CS	M7264-0-1	Y
SCALE —	SHEET 2 OF 10	DIST.		

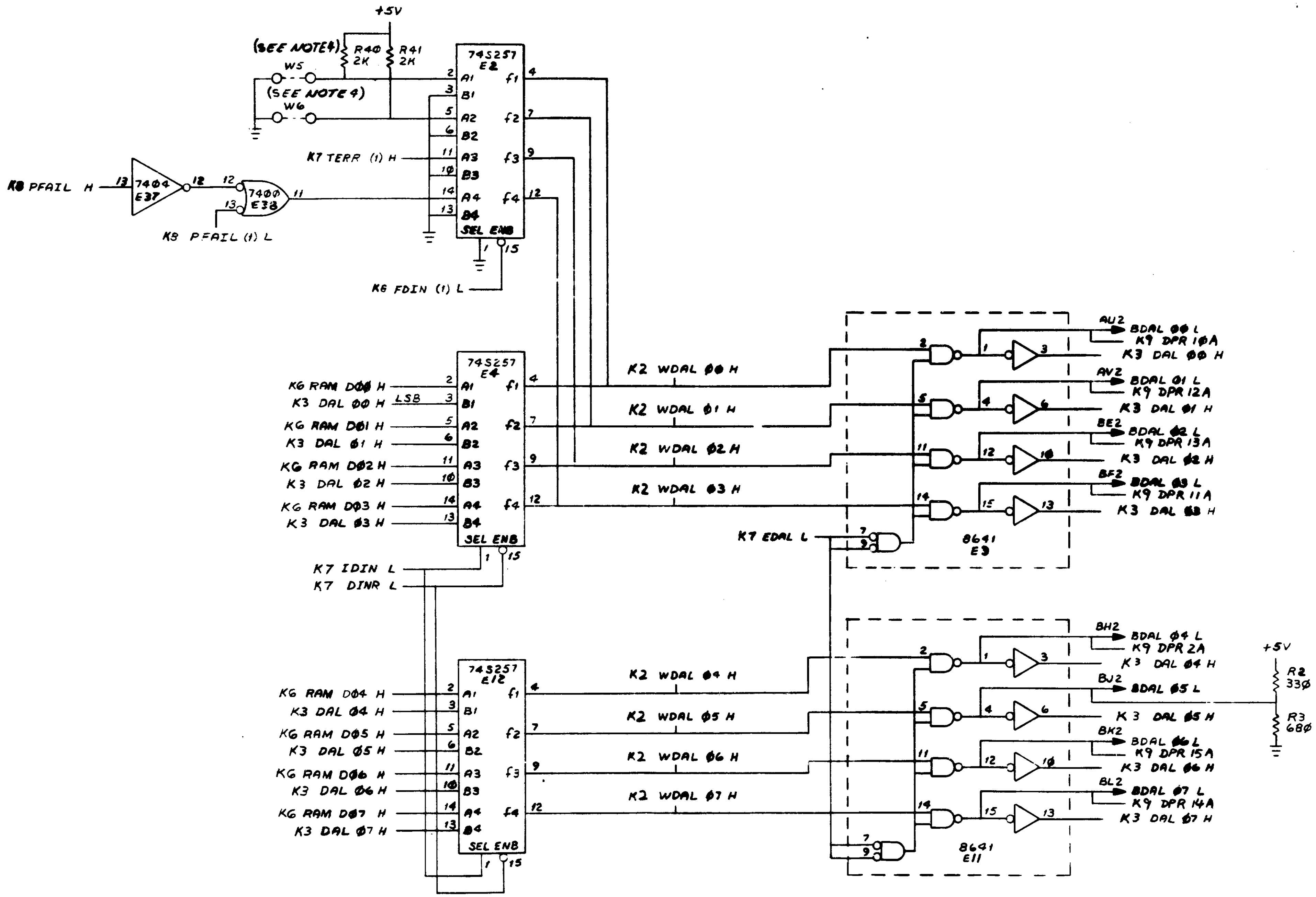


REVISIONS		
CHK	CHANGE NO	REV

TITLE LSI-11 CPU MODULE (K2)

SIZE D | CODE CS | NUMBER M7264-Ø-1 | REV. Y

SCALE — | SHEET 3 OF 10



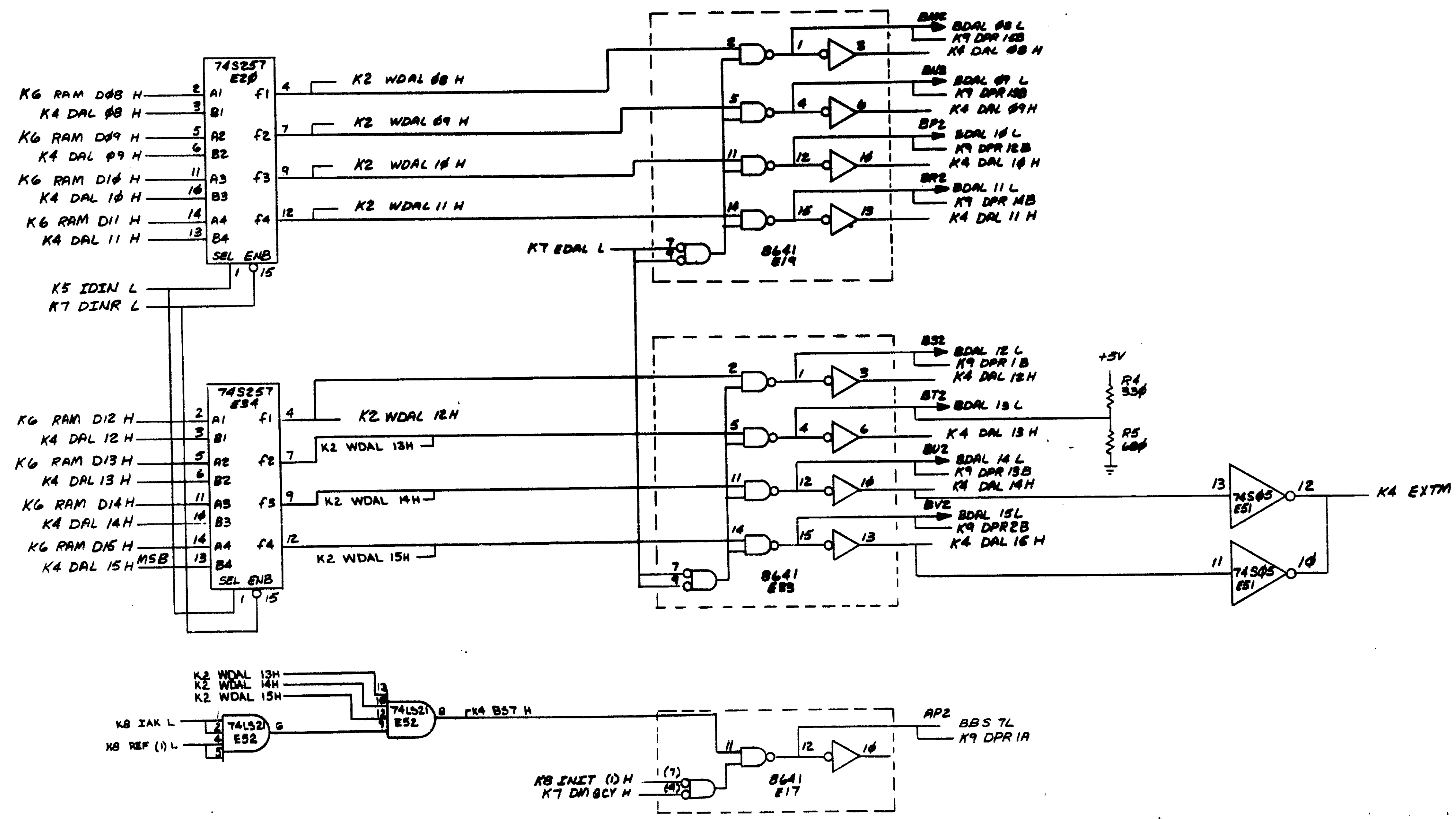
REVISIONS

CHK	CHANGE NO.	REV

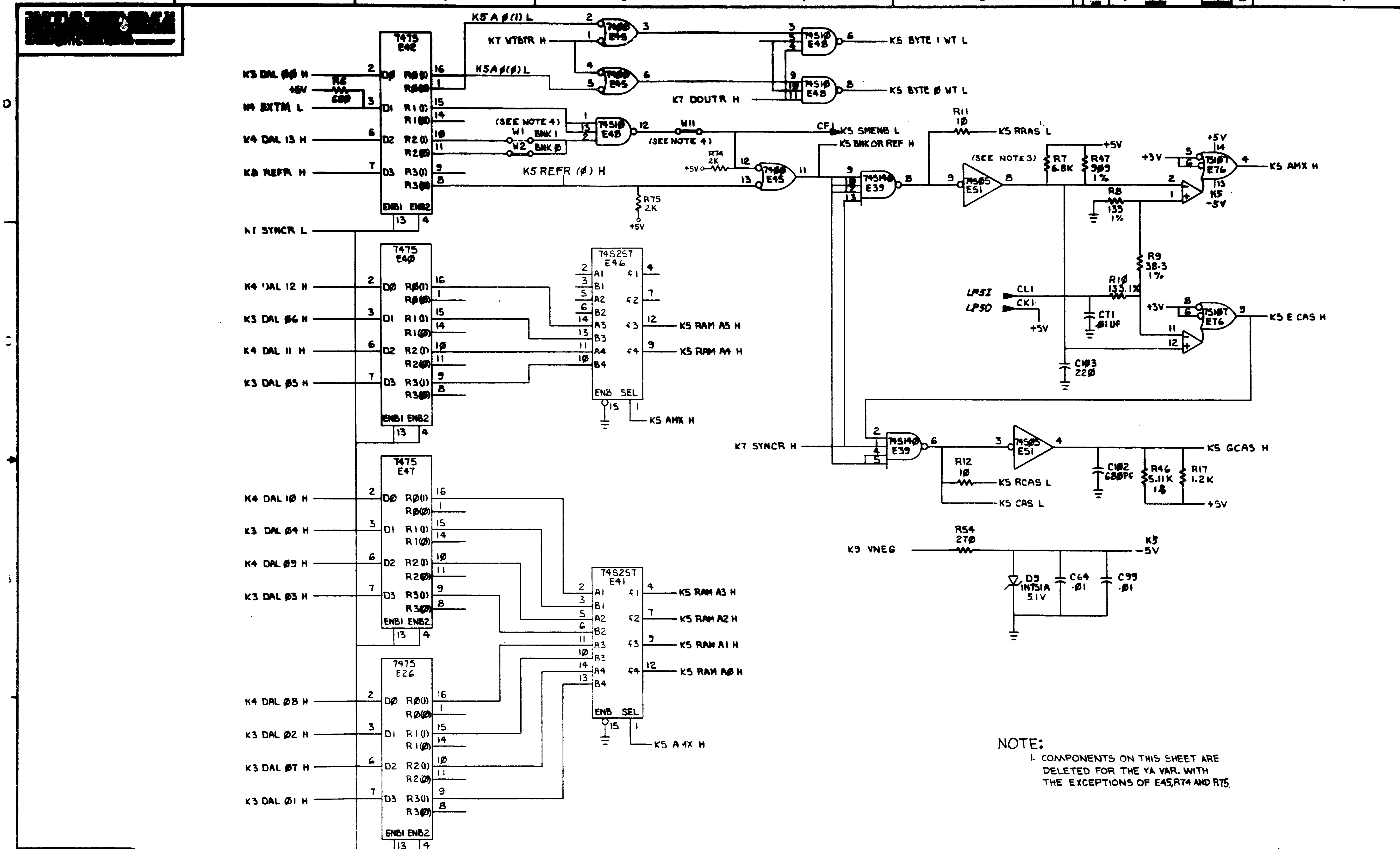
TITLE LSI-11 CPU MODULE (K3)

SIZE D CODE CS NUMBER M7264-0-1 REV. Y

SCALE — SHEET 4 OF 10



TITLE LSI-11 CPU MODULE (K4)	SIZE D	CODE CS	NUMBER M7264-0-1	REV. Y
SCALE —/—	SHEET 5 OF 10			

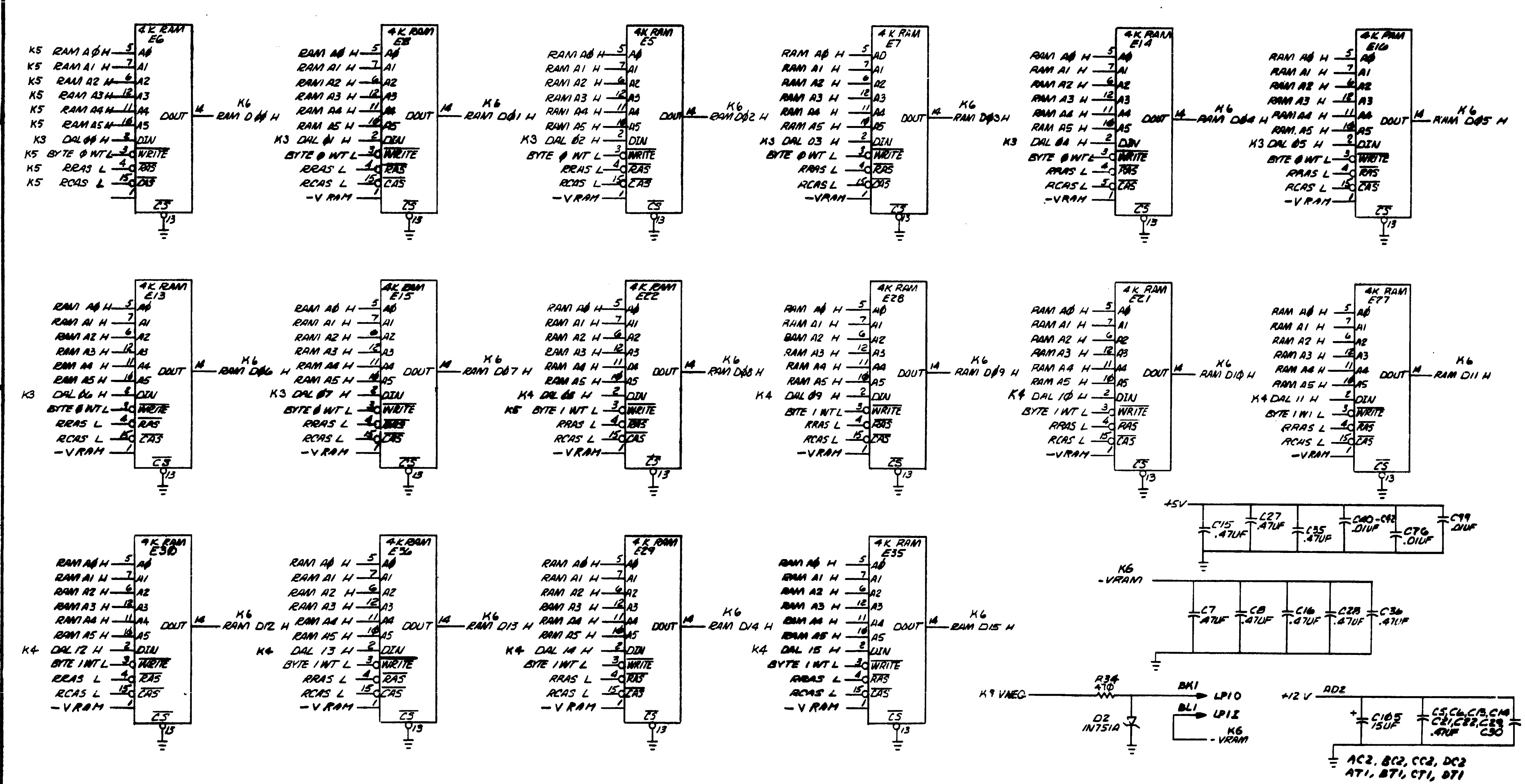


NOTE:
1. COMPONENTS ON THIS SHEET ARE DELETED FOR THE YA VAR. WITH THE EXCEPTIONS OF E45,R74 AND R75.

CIRCUIT SCHEMATIC ON THIS SHEET IS DELETED FOR "YA" VERSION

TITLE	SIZE	CODE	NUMBER	REV.
LSI-11 CPU MODULE (K5)	D	CS	M7264-Ø-1	Y

SHEET 5 OF 15



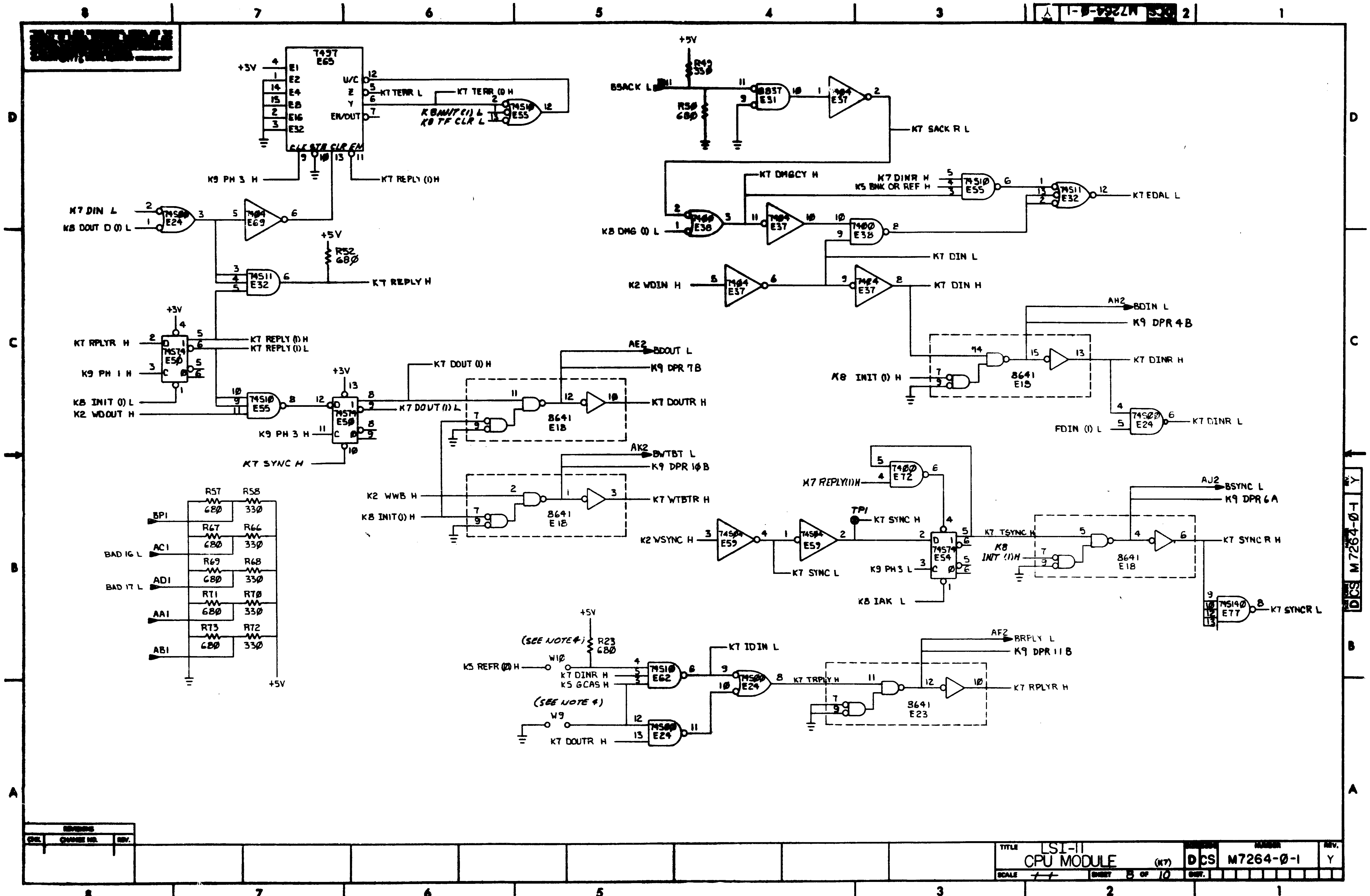
CIRCUIT SCHEMATIC ON THIS SHEET IS DELETED FOR "YA" VERSION

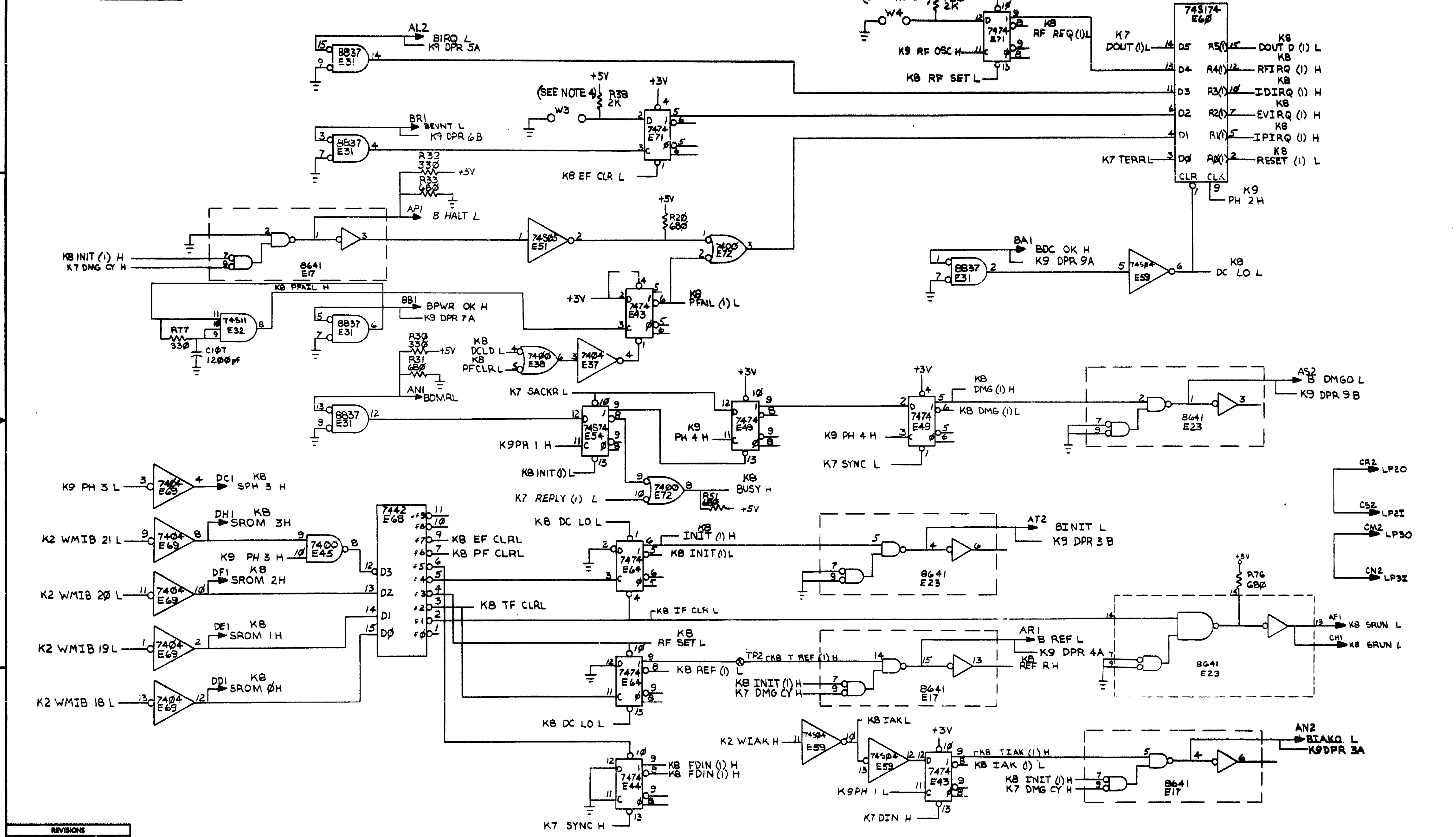
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LSI-11 CPU MODULE (K6)

SIZE D | CODE CS | NUMBER M7264 0-1 | REV. Y

SCALE | SHEET 7 OF 16


LSI-11
CPU MODULE
(K7)
D CS M7264-Ø-1
REV. Y
SHEET 8 OF 10
7497
E65
K7 TERR L
K7 TERR (1) H
K8 INIT (1) L
K8 TF CLR L
K9 PH 3 H
K7 REPLY (1) H
K7 DIN L
K8 DOUT D (1) L
K7 REPLY H
K7 RPLYR H
K9 PH 1 H
K8 INIT (1) L
K2 WDOUT H
K7 REPLY (1) H
K7 REPLY (1) L
K7 DOUT (1) H
K7 DOUT (1) L
K9 PH 3 H
K7 SYNC H
BDOUT L
K9 DPR 7B
K7 DOUTR H
BWTBT L
K9 DPR 10B
K2 WWB H
K8 INIT (1) H
K7 WTBTR H
BP1
AC1
BAD 16 L
AD1
BAD 17 L
AA1
AB1
BSACK L
K7 SACK R L
K7 DMGCY H
K7 DINR H
K5 BNK OR REF H
K7 EDAL L
K8 DMG (1) L
K7 DIN L
K2 WDIN H
K7 DIN H
BDIN L
K9 DPR 4B
K7 DINR H
K8 INIT (1) H
FDIN (1) L
K7 DINR L
K7 REPLY (1) H
TP1
K7 SYNC H
K2 WSYNC H
K7 SYNC L
K9 PH 3 L
K8 IAK L
K7 TSYNC H
BSYNC L
K9 DPR 6A
K7 SYNC R H
K7 SYNCR L
(SEE NOTE 4)
K5 REFR (Ø) H
K7 DINR H
K5 GCAS H
K7 IDIN L
K7 TRPLY H
BRPLY L
K9 DPR 11B
K7 RPLYR H
K7 DOUTR H

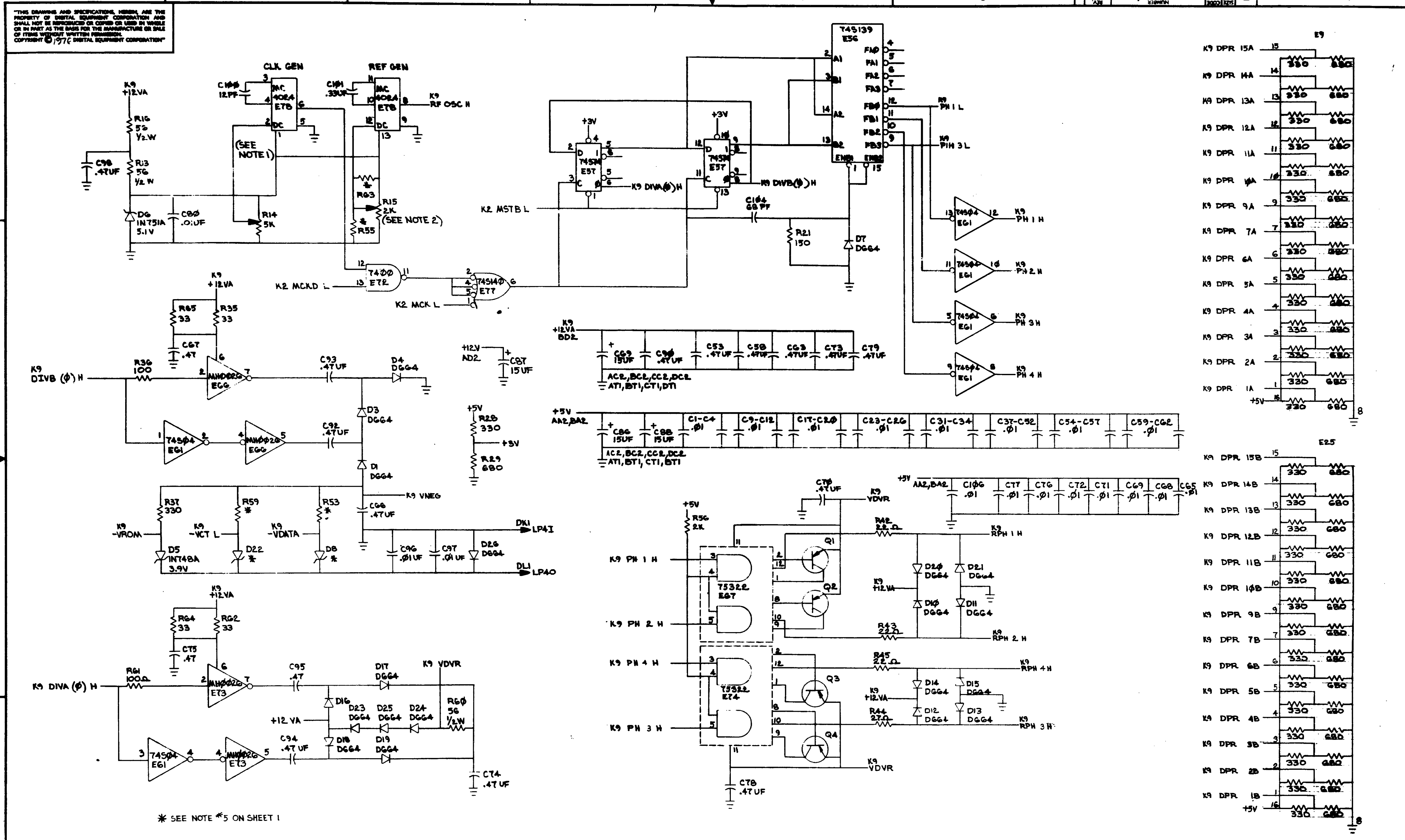


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LSI-11 CPU MODULE (K8)

SIZE D | CODE CS | NUMBER M7264-Ø-1 | REV. Y

SCALE — | SHEET 9 OF 10



✱ SEE NOTE #5 ON SHEET 1

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE LSI-11 CPU MODULE (K9)

SIZE D CODE CS NUMBER M7264-Ø-1 REV. Y

SCALE — SHEET 10 OF 10

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. RILEY DATE 7/11/75	CHECKED D. HEALY DATE 9/8/75	SECTION 1
ENG [signature] DATE 10/17/75	PROD [signature] DATE 10/16/75	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	D-CS-M7264-YA-1	PROCESSOR WITH NO 4K RAM MEMORY	1
2	A-PS-9905621-0-0	BOX, FOLDING, REVERSE TUCK	1

TITLE PROCESSOR WITH NO 4K RAM MEMORY	ASSY NO. NONE	SIZE A	CODE PL	NUMBER KD11-H-Ø	REV. A	ECO NO. KD11-H-00004
	SHEET 1 OF 1	DIST.				

DEC FORM DEC 16–(325)–1031–N970
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY Liz Hevesh DATE 1/19/76	CHECKED DATE	SECTION	
ENG Richard E Olsen DATE 1/29/76	PROD DATE	ISSUED SECT.	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	MP-0050	CUSTOMER PRINT SET KD11-H	1
2	DEC-11-DVKAA-A-PB	BASIC INST TEST PAPER TAPE	*
3	DEC-11-DVKAD-A-PB	TRAP TEST PAPER TAPE	*
~~4~~	~~EK-LSI11-TM~~	~~LSI-11, PDP-11/03 USER'S MANUAL~~	~~*~~
~~5~~	~~EB-04870-75~~	~~LSI-11, 11/03 PROCESSOR HANDBOOK~~	~~*~~
6	EH-04779-75	LSI-11 PROGRAMMING CARD	*
7	EB-06583-76	MICROCOMPUTER HANDBOOK	*
8	DEC-11-DVKAA-A-D	BASIC INSTRUCTION TEST DOCUMENT	*
9	DEC-11-DVKAD-A-D	TRAP TEST DOCUMENT	*
		*NOTE: These items are shipped with first ship to customer.	

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
SHIPPING LIST KD11-H	SHEET 1 OF 1	A	PL	KD11-H-1	A	KD11-H 00003

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

DRAWING DIRECTORY

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-J-Ø-2

UNIT VARIATIONS

VAR	TITLE
KD11-J	PROC/4K CORE MEMORY

REVISIONS		
REV.	CHANGE NO.	CHK
H	KD11-J-…	—
REVISED REDRAWN		

USED ON OPTION/MODEL	
11/Ø3	

SHEET 1 OF 2

DRN.	DATE
R. RILEY	7/11/75
CHK'D.	DATE
D. HEALY	9/8/75
PROJ. ENG.	DATE
D DEROME	9-8-75
PROD.	DATE
D DEROME	9-8-75

TITLE
DRAWING DIRECTORY
KD11-J

digital

SIZE	CODE	NUMBER	REV
B	DD	KD11-J	B

DIST.

EN-01062-1A-16-R972-(325)

DRB 106A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1			
	B-TC-KD11-J 2	FIELD MAINTENANCE PRINT SET	M
	MP 00051	PRINT SET ORDER NO.	M
	A-PL-KD11-[illegible]	PROC WITH 4K CORE MEMORY	E/M
2	B-DD-KD11-H	DRAWING DIRECTORY KD11-H	E/M
3	B-DD-MMV11-A	DRAWING DIRECTORY MMV11-A	E/M
4	A-PL-KD11-J-1	SHIPPING LIST KD11-J	E

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

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY KD11-J	2 OF 2	B	DD	KD11-J	B

DRB 108A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. RILEY DATE 7/11/75	CHECKED D. HEALY DATE 9/8/75	SECTION 1
ENG Arnold J. Cohen DATE 10/17/75	PROD Dan Demona DATE 10/16/75	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	D-UA-MMV11-A-Ø	4K 16 BIT CORE MEMORY	1
2	A-PL-KD11-H-Ø	PROCESSOR WITH NO 4K RAM MEMORY	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
PROCESSOR WITH 4K CORE MEMORY	NONE	A	PL	KD11-J-Ø		
	SHEET 1 OF 1	DIST.				

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

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	DRAWING DIRECTORY	

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE	
DRAWING DIRECTORY	B-DD-MMV11-A
MMV11-A MEMORY MODULE ASSEMBLY	D-UA-MMV11-A
H223 DRAWING DIRECTORY	B-DD-H223-Ø
4K x 16 BIT MEMORY	D-CS-G653-Ø-1
MMV11-A-1 TIMING DIAGRAM	D-TD-MMV11-A-1
MMV11-A PIN ALLOCATION	C-MU-MMV11-A-2
MMV11-A ENGINEERING SPEC.	A-SP-MMV11-A-3
MMV11-A SHIPPING LIST	A-PL-MMV11-A-4

SEQUENCE

UNIT VARIATIONS

VAR	TITLE	PRINT SET

REVISIONS

REV	CHG. NO.	DATE
A	MMV11-A-1	6-76
B	MMV11-A-2	7-76
C	MMV11A-3	4-77

USED ON OPTION/MODEL

SHEET 1 OF 2

DRN. W. LUFKIN	DATE 7/21/75	TITLE MMV11-A MEMORY MODULE
CHK'D. [signature]	DATE 7/21/75	
PROJ ENG. [signature]	DATE 8/19/75	
PROD. C. [signature]	DATE 8-20-75	SIZE B · CODE DD · NUMBER MMV11-A · REV C
FIELD SERV. [signature]	DATE 9/20/75	DIST

DEC 16-(325)-1062-1A-R972

DRB 106

CUSTOMER PRINT SET 1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	ELECTRICAL DESCRIPTION	OPTION NO./FILE DATE
X						B-DD-MMV11-A	C	2	DRAWING DIRECTORY	
X						D-CS-G653-Ø-1		8	MMV11-A 4K X 16 BIT MEMORY	
X						D-TD-MMV11-A-1		1	MMV11-A TIMING DIAGRAM	
X						C-MU-MMV11-A-2		1	MMV11-A PIN ALLOCATION	
				X		A-SP-MMV11-A-3		3	MMV11-A ENGINEERING SPEC.	
X						A-PL-MMV11-A-4	*	1	MMV11-A SHIPPING LIST	

CUSTOMER PRINT SET 1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	MECHANICAL DESCRIPTION	OPTION NO./FILE DATE
X						D-UA-MMV11-A-Ø	A	1	MMV11-A MEMORY MODULE ASSY	
X						B-DD-H223-Ø			DRAWING DIRECTORY H223	
						A-PS-9905815-0-0			BOX,FOLDING,REVERSE TUCK	

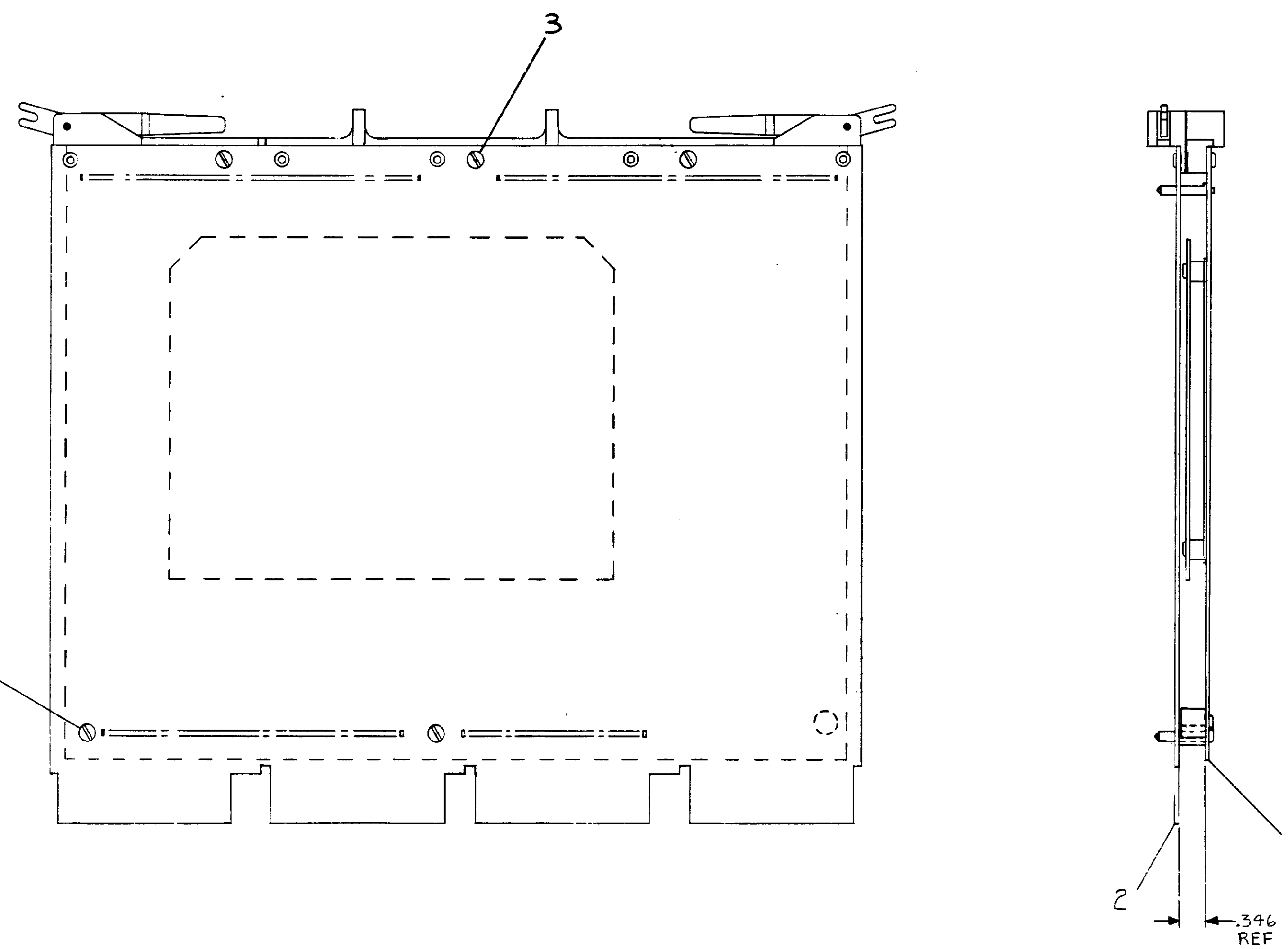
CUSTOMER PRINT SET CODES

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
MMV11-A MEMORY MODULE	2 OF 2	B	DD	MMV11-A	C

DRB 108

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



	BOX, FOLDING, REVERSE TUCK	A-PS-9905815-0-0	5
2	SCR. SLT BNDR NYLON #4-40X.25	9009233-04	4
3	SCR SLT PAN HD #2-56 X .19 LG. SS	9006401-05	3
1	4K X 16 BIT MEMORY	D-CS-G653-Ø-1	2
1	H223 CORE MEMORY STACK ASSY	D-UA-H223-Ø-Ø	
QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'

SURFACE QUALITY IN MICROINCHES

CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 48.0	OVER 48.0 TO 96.0
MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
PREFERRED	±.012	±.016	±.025	±.04	±.060	±0.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL SEE PARTS LIST

FINISH

DRN. W. LUFKIN 6/18/75

CHK'D [illegible] 7/10/75

ENG. [illegible]

PROJ. ENG. [illegible]

PROD. [illegible] 6-20-75

NEXT HIGHER ASSY. B-DD-MMVII-A-Ø

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON MMVII-A

digital

TITLE MMVII-A MEMORY MODULE ASSY

SIZE D CODE UA NUMBER MMVII-A-Ø REV. A

DIST.

REVISIONS

CHK	CHANGE NO.	REV.
JC	MMVII-A-00003	A

D. Bennett 27 June 77

D. BENNETT

D. Bennett 4 May 77

DEC FORM NO. DRD 100-C

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

	SEQUENCE
DRAWING DIRECTORY	B-DD-H223-Ø
STACK BOARD	D-CS-5411631-Ø-1
H223 CORE MEMORY STACK ASSY	D-UA-H223-0-0

UNIT VARIATIONS

VAR	TITLE	PRINT SET

REVISIONS		
REV	CHG. NO.	DATE
A	H223-2 P DURANT	

USED ON OPTION/MODEL

SHEET 1 OF 2

DRN. W. LUFKIN	DATE 6/10/75	TITLE H223 MEMORY STACK
CHK'D.	DATE	
PROJ ENG.	DATE	
PROD.	DATE 7/2/75	SIZE B / CODE DD / NUMBER H223-Ø / REV A
FIELD SERV.	DATE	DIST

DRB 106

DFC 16-(325)-1062-10-0872

ELECTRICAL

CUSTOMER PRINT SET 1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X						B-DD-H223-Ø		2	DRAWING DIRECTORY	
X						D-CS-5411631-0-1		4	STACK BOARD	
						E-IA-7011483-0-0		2	CORE PLANE WIRING ASSY	

MECHANICAL

CUSTOMER PRINT SET 1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
						D-UA-H223-0-0		1	H223 CORE MEMORY STACK ASSY	
						D-PS-1212681-0-0		1	BAR, STIFFENER	
						B-MD-5511533-0-0		1	STANDOFF ¼"DIA X .34LG	
						D-MD-5511789-0-0		1	COVER, 4K x 16	
						D-MD-5511788-0-0		1	CORE SUPPORT FOR Q MEMORY	

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
H223 MEMORY STACK	2 OF 2	B	DD	H223-Ø	A

DRB 108
DEC 16-(325)-1062-2B-R972

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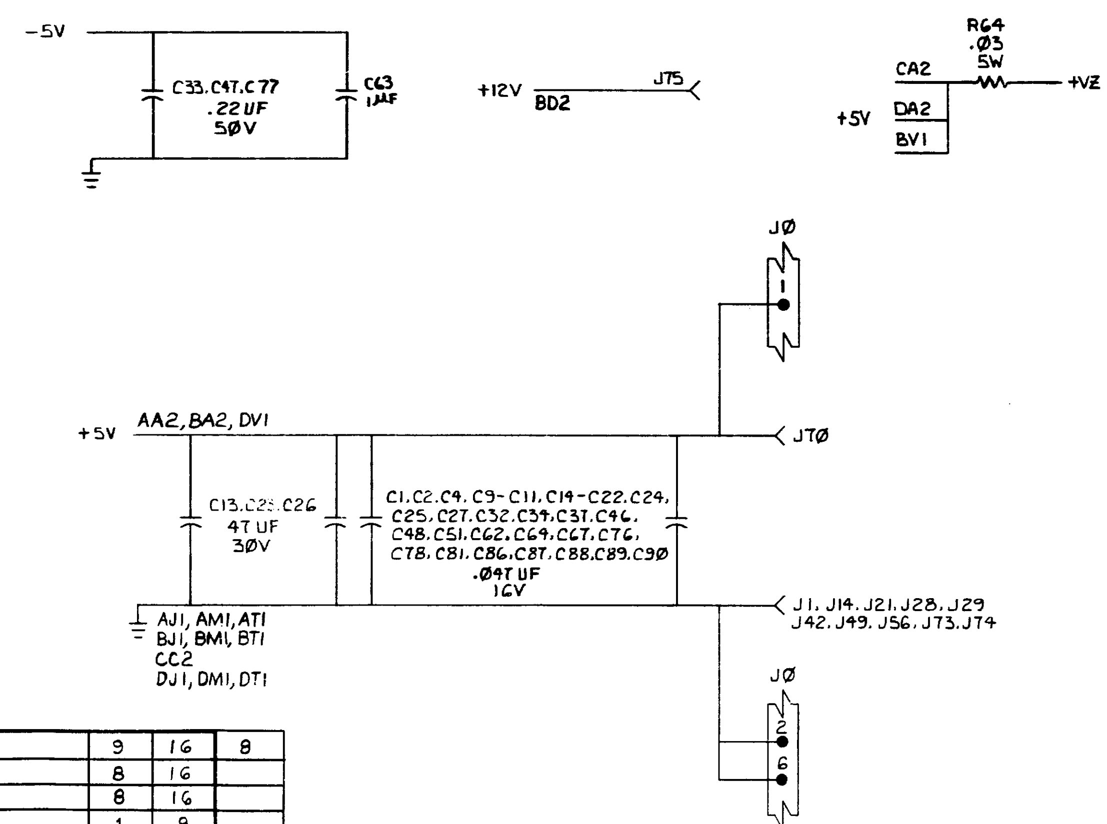
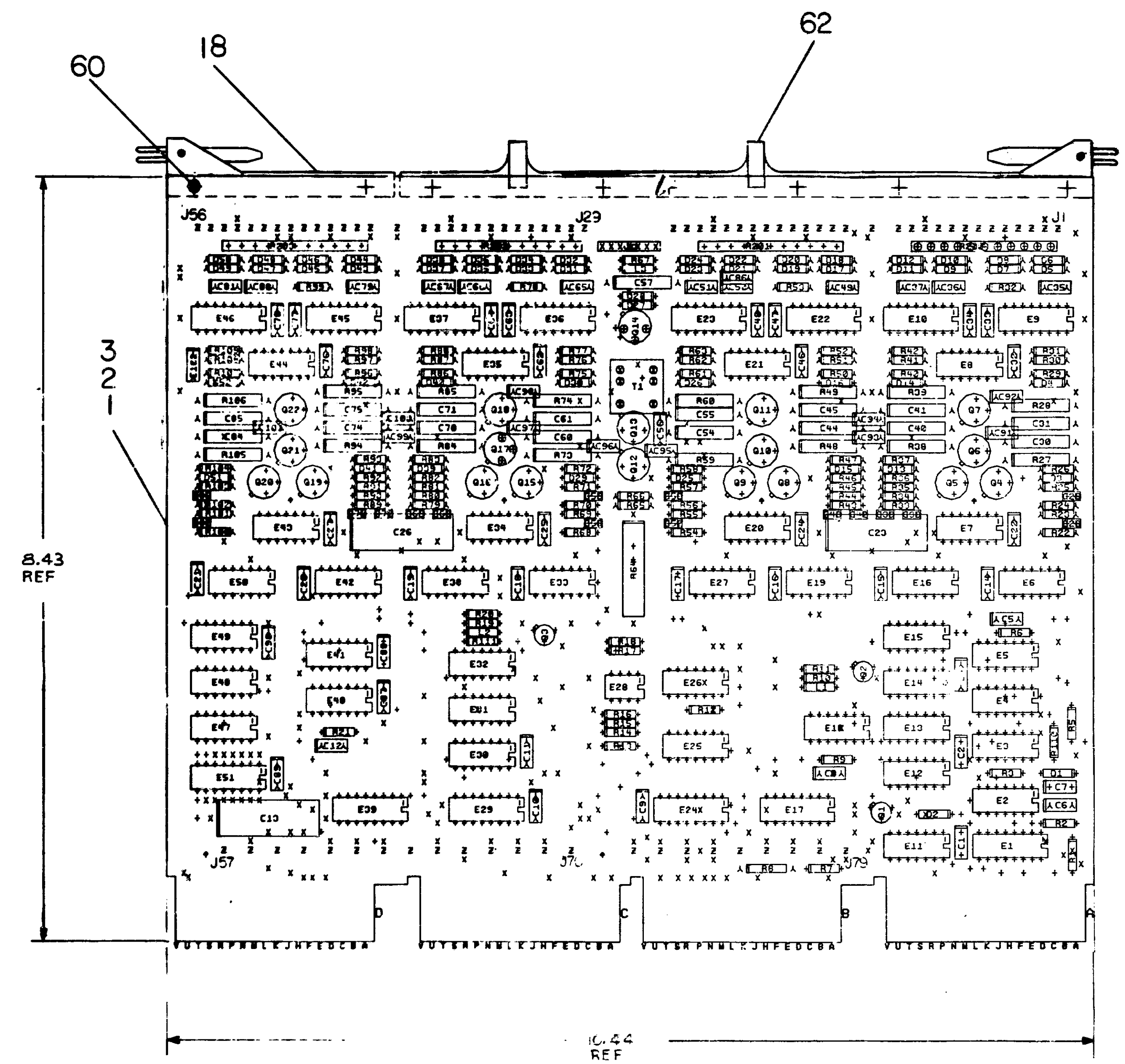
NOTES:

1. 8640, E11 PIN 8 IS +5 *
2. 8837, E1 PIN 16 IS +5 *

S3	S2	S1	DESIRED BANK
ON	ON	ON	0-4K
ON	ON	OFF	4-8K
ON	OFF	ON	8-12K
ON	OFF	OFF	12-16K
OFF	ON	ON	16-20K
OFF	ON	OFF	20-24K
OFF	OFF	ON	24-28K
OFF	OFF	OFF	28-32K

E-28 SWITCH POSITIONS FOR BANK SELECT.





IC TYPE	GND	+5V	-5V
7528	9	16	8
8837	8	16	
8838	8	16	
8640	1	8	

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

IC PIN LOCATIONS

REV.	CHANGE NO.	CHK
F	G653-00004 14-DEC-76	P. DURANT 12-22-76
E	G653-00003	P. DURANT 1-4-76
D	G653-00002	P. DURANT 12-9-75
C	G653-00001	P. DURANT 9-12-75

REVISIONS

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

SEMICONDUCTOR CONVERSION CHART

FIRST USED ON OPTION MODEL

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

ETCH BOARD REV. C

DRN. M. POIRIER — DATE 5-12-75
CHK'D — DATE 7-1-75
ENG. — DATE
PROJ. ENG. — DATE
PROD. — DATE
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 8

digital

TITLE MMV11-A 4KX16 BIT MEMORY

SIZE D | CODE CS | NUMBER G653-Ø-1 | REV. F

DIST.

PARTS LIST

QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
REF		ASSY/DRILL HOLE LAYOUT	D-AH-G653-0-6	1
REF		~~MODULE ECO HISTORY~~	~~B-MH-G653-0-6~~	2
1		ETCHED CIRCUIT BOARD	5011632	3
2	C8,12	CAP 82 PF 100V	1000015	4
1	C6	CAP 1000 PF 100V	1000042	5
8	C35,36,49,50,65,66,79,80	CAP 120 PF 100V	1000018	6
2	C5,C7	CAP 820 PF 100V	1000027	7
35	C1,2,4,9,10,11,14-22,24, 25,27,32,34,37,46,78,81, 48,51,62,86,64,67,76,89, 90,87,88	CAP .047 UF 16V	1009678	8
17	C30,31,40,41,44,54,45,55, 60,61,70,71,74,75,84,85, 57	CAP S. TANT 6.8 UF 35V	1005306	9
16	C28,29,38,39,42,43,52,53, 58,59,68,69,72,73,82,83	CAP 3300 PF 50V	1011740-01	10
3	C13,23,26	CAP 47 UF 30V	1012219	11
16	C56,91-102,33,47, ,77	CAP.22 UF 50V	1010274	12
1	D2	DIODE IN752A	1102808	13
51	D1,D3-D52	DIODE D672	1105275	14
1	E28	SWITCH 4 POLE DIP	1211164-00	15
79	J1-J79	CONTACT, FEMALE	1211728	16
1	J0	CONN, PLUG, 7 PIN	1212104	17
1		HANDLE, L.H.	7413826-00	18
1	R64	RES .03 5W 3%	1310876-01	19
16	R23,25,34,36,44,46,55,57, 69,71,80,82,90,92,101,103	RES 120 5% 1/4W	1300247	20
16	R22,24,33,35,43,45,54,56, 68,70,79,81,89,91,100,102	RES 33 5% 1/4W	1300197	21
16	R26,29,37,40,47,50,58,61, 72,75,83,86,93,104,107,96	RES 5.1 5% 1/4W	1309422	22
20	R30,31,41,42,51,52,62,63, 11,76 77,87,88,97,98,108 109,5,111,12	RES 1K 5% 1/4W	1300365	23
5	R9,10,19,21 110	RES 100 5% 1/4W	1300229	24
4	R1,65,7,66	RES 470 5% 1/4W	1300316	25
1	R3	RES 180 5% 1/4W	1301322	26
1	R8	RES 56 5% 1/2W	1309995	27
7	R13-18 20,	RES 4.7K 5% 1/4W	1300447	28
1	R2	RES 10K 5% 1/4W	1300479	29
1	R6	RES 75 5% 1/4W	1302379	30
1	R67	RES 5.62 K 1% 1/8W	1306128	31
4	R32,53,78,99	RES 10.0K 1% 1/8W	1303312	32
4	R200,201,202,203	RES PACK 11 PIN #80	1311741	33
16	R27,28,38,39,48,49,59,60 73,74,84,85,94,95,105,106	RES 2.0 1% 3W WW	1312542	34
2	Q2,Q3	TRANS 3009B	1503100	35
1	Q1	TRANS 6531B	1509338	36
16	Q4-11, 15-22	TRANS 3762	1509649-01	37
2	Q12,13	TRANS 3725	1510959	38
2	L1,L2	INDUCTOR 100 UH	1610662	39
1	L3	INDUCTOR 2.2 UH	1609756	40
1	T1	TRANSFORMER	1612523	41
2	E18,40	DELAY LINE 250 NS	1611243	42

PARTS LIST

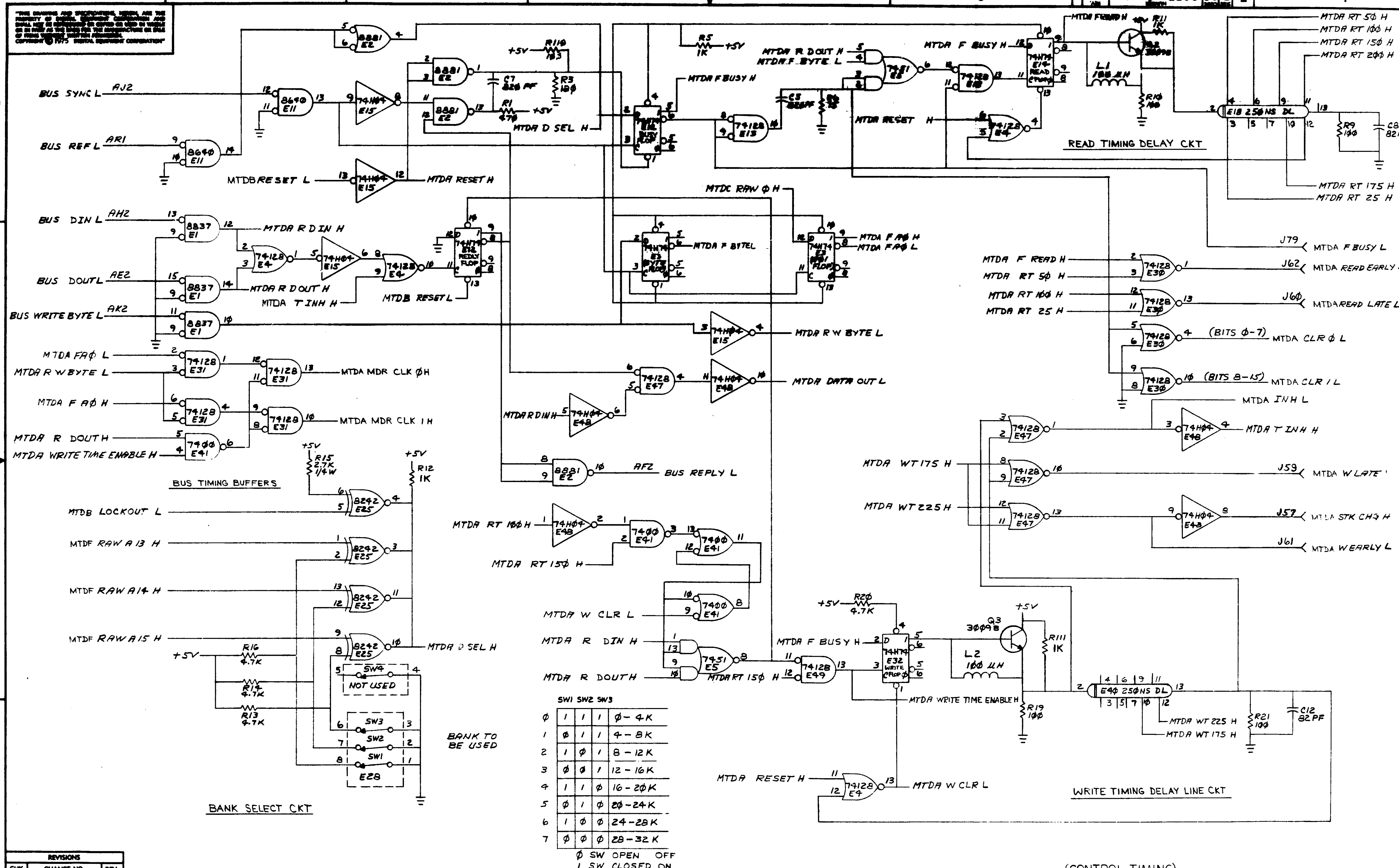
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
1	E41	I.C. 7400	1905575	43
~~1~~	~~E5~~	~~I.C. 7451~~	~~1905828~~	~~44~~
1	E2	I.C. 8881	1909705	45
1	E26	I.C. 74H53	1909082	46
12	E3,6,12,14,16,19,27,32,33, 38,42,50	I.C. 74H74	1909687	47
4	E7,20,34,43	I.C. 7437	1910091	48
1	E25	I.C. 8242	1909712	49
6	E8,15,21,35,44,48	I.C. 74H04	1909931	50
8	E9,10,22,23,36,37,45,46	I.C. 7528	1910687	51
6	E4,13,30,31,47,49	I.C. 74128	1912068	52
1	E1	I.C. 8837	1911116	53
4	E17,24,29,39	I.C. 8641	1911579	54
1	E11	I.C. 8640	1911469	55
1	Q14	DEC 320-5.0	1912541-00	56
19		TRANSIPADS	9007201	57
4		STANDOFF SPACERS	9008213	53
4		NYLON SCREW 6-32 X 250	9009041-1	59
8		EYELET, HANDLE	9006732	60
1		HEAT SINK 2201 RED	1210001-00	61
1		HANDLE R.H.	7413826-01	62
REF	E51	SPARE		63
1	C63	CAP 1UF RADIAL	1010274-02	64

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE MMV11-A 4KX16 BIT MEMORY

SIZE D CODE CS NUMBER G653-Ø-1 REV. F

SCALE SHEET 2 OF 8 DIST.



	SW1	SW2	SW3	
0	1	1	1	0 - 4K
1	0	1	1	4 - 8K
2	1	0	1	8 - 12K
3	0	0	1	12 - 16K
4	1	1	0	16 - 20K
5	0	1	0	20 - 24K
6	1	0	0	24 - 28K
7	0	0	0	28 - 32K

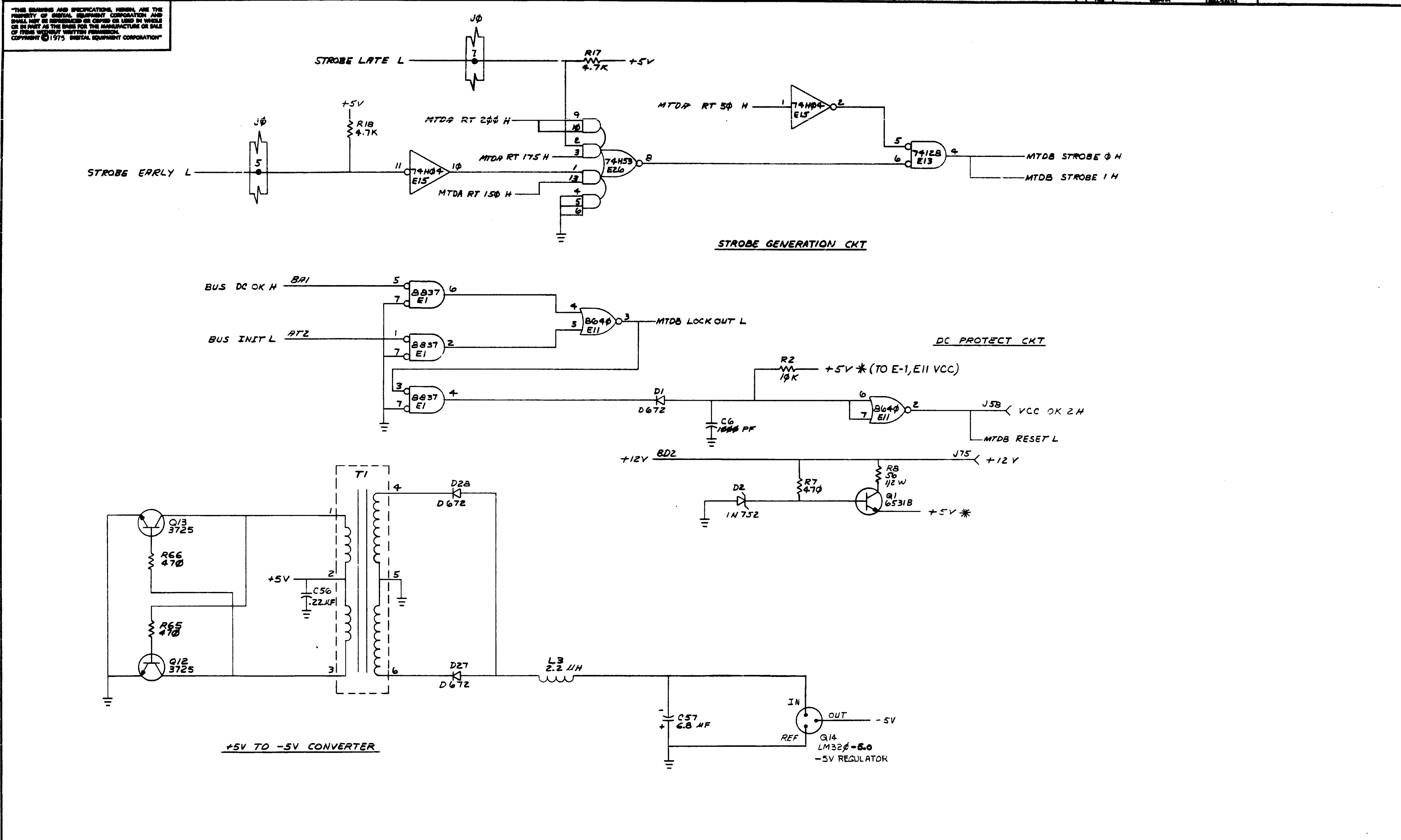
0 SW OPEN OFF
1 SW CLOSED ON

(CONTROL TIMING)

TITLE MMV11-A 4KX16 BIT MEMORY (MTDA)

SIZE D CODE CS NUMBER G653-0-1 REV. F

SCALE SHEET 3 OF 8

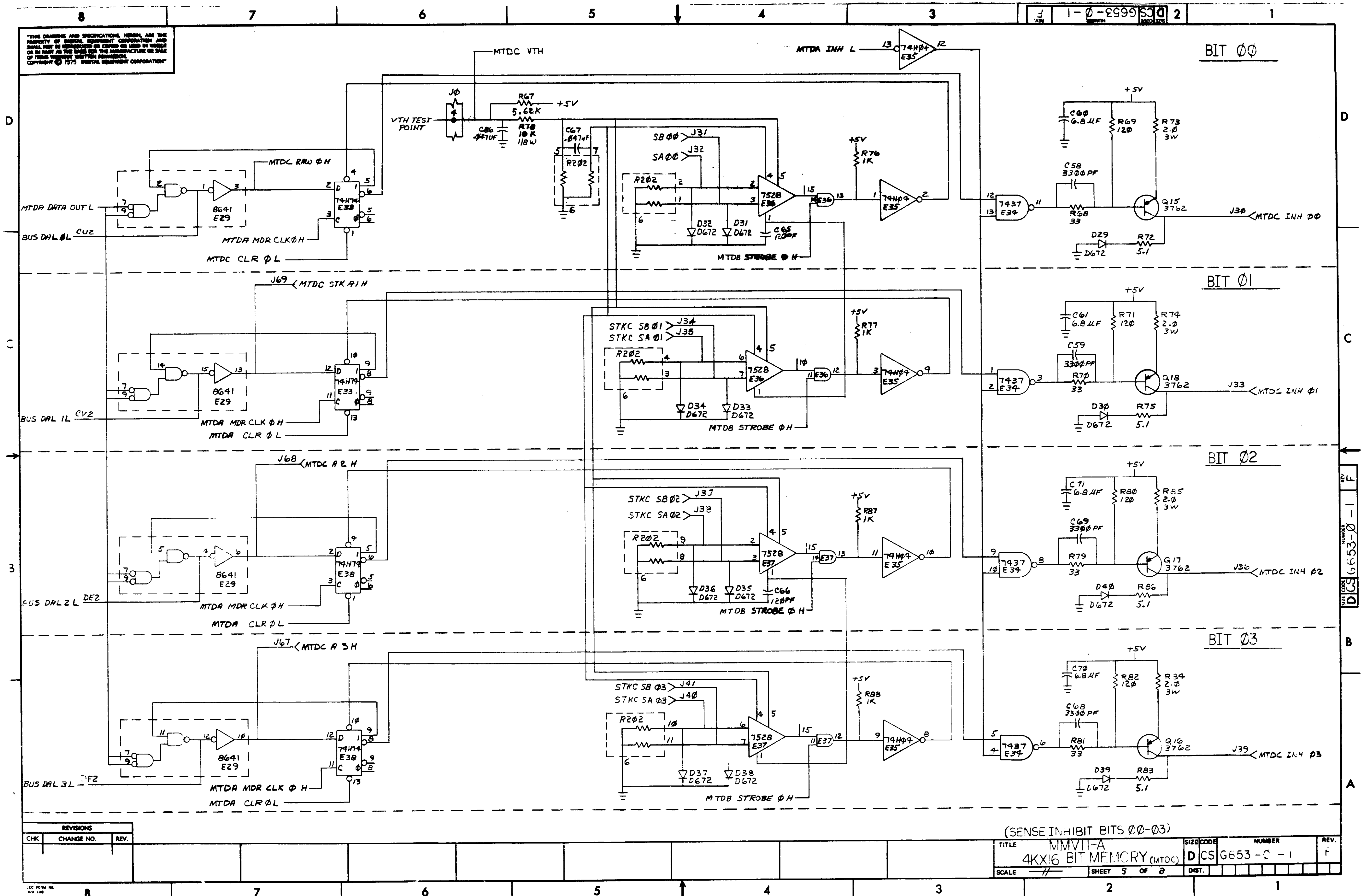


REVISIONS

CHK	CHANGE NO.	REV.

(CONTROL TIMING)

TITLE	MMV11-A 4KX16 BIT MEMORY (MTDB)	SIZE D	CODE CS	NUMBER G653-0-1	REV. F
SCALE —	SHEET 4 OF 8	DIST.			



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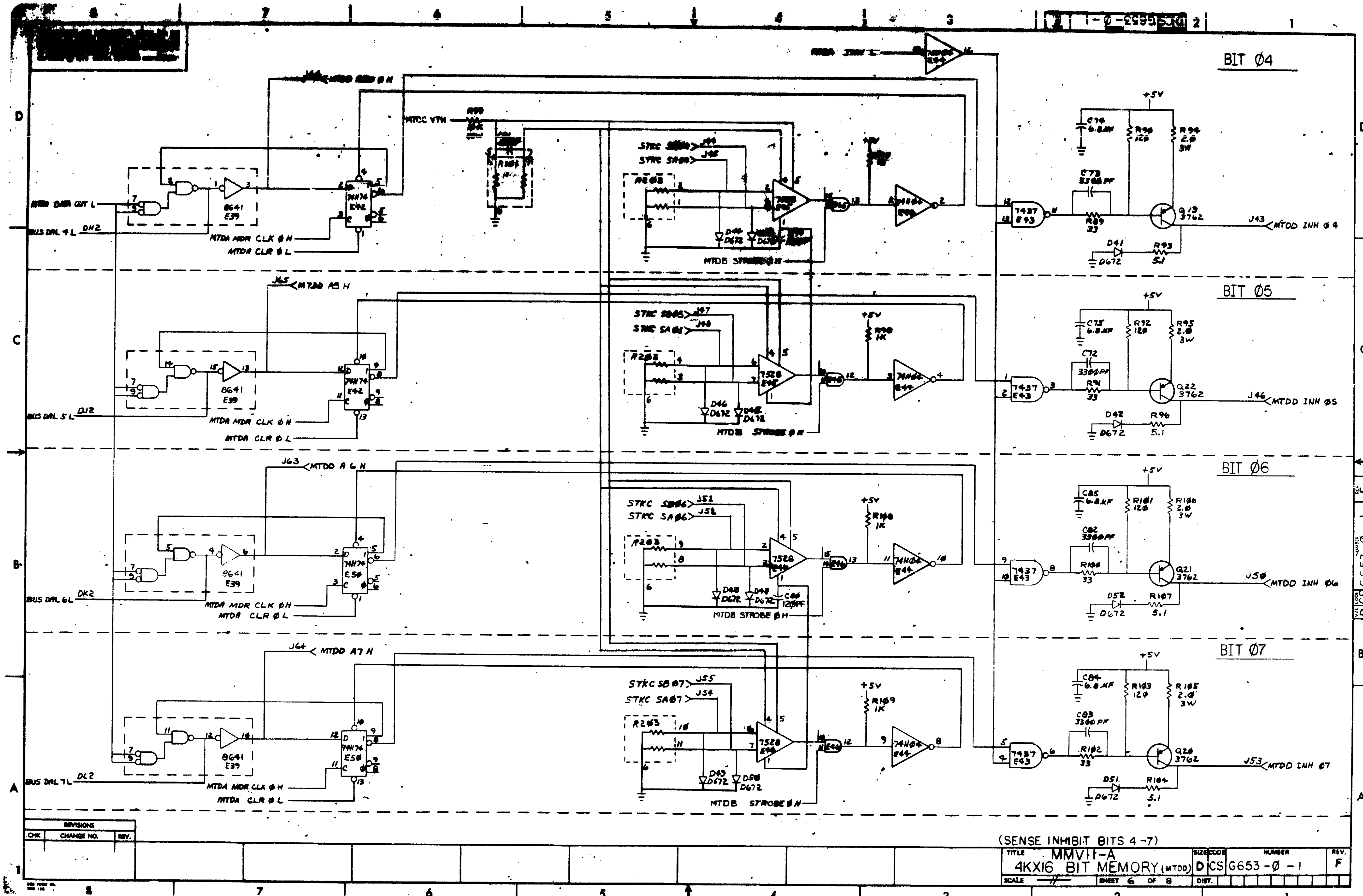
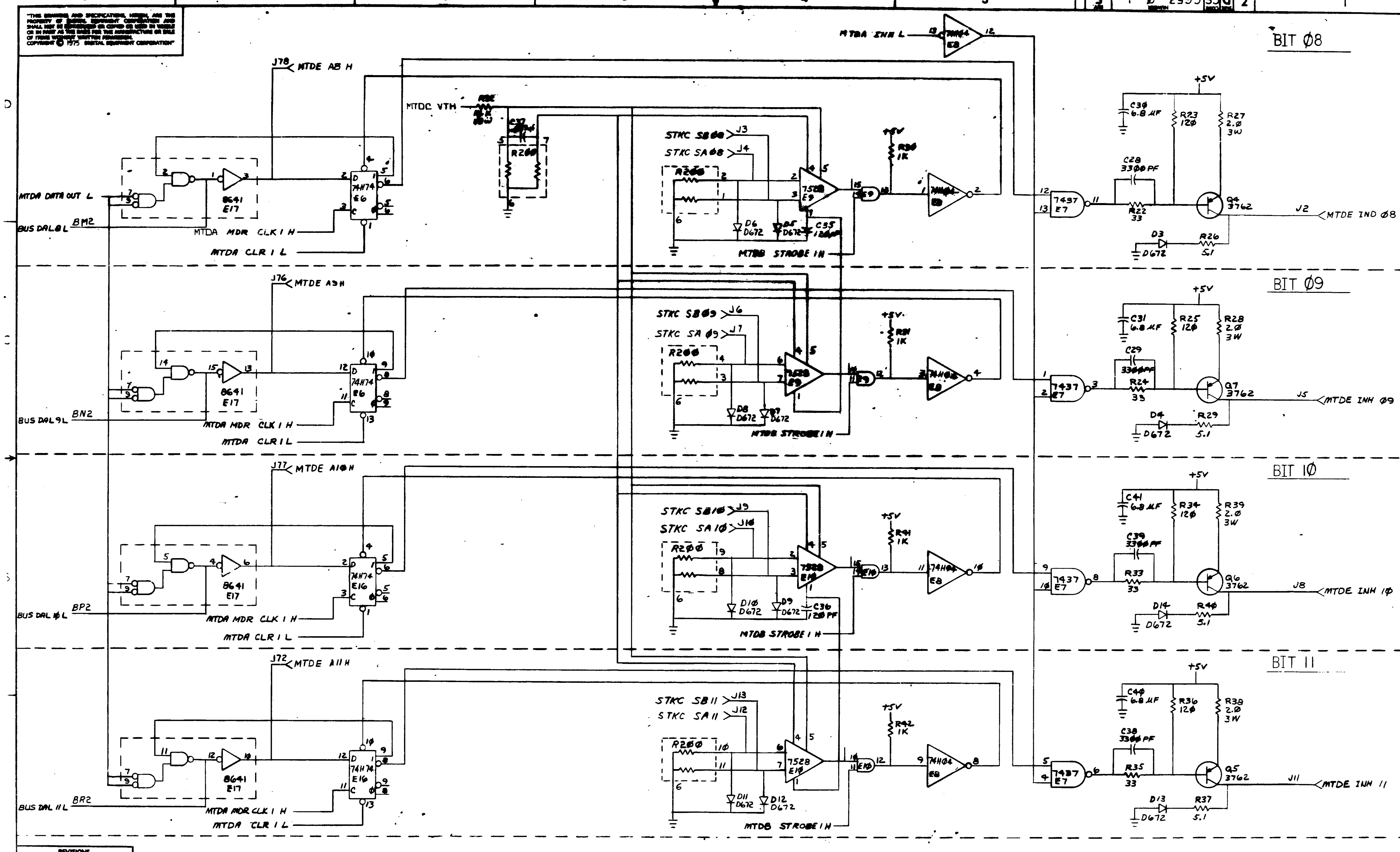
BIT ØØ
BIT Ø1
BIT Ø2
BIT Ø3
MTDC VTH
VTH TEST POINT
MTDA INH L
MTDA DATA OUT L
BUS DAL ØL
BUS DAL 1L
BUS DAL 2 L
BUS DAL 3 L
MTDC RAW Ø H
MTDC STK A1 H
MTDC A 2 H
MTDC A 3 H
MTDA MDR CLK Ø H
MTDC CLR Ø L
MTDA CLR Ø L
SB ØØ
SA ØØ
STKC SB Ø1
STKC SA Ø1
STKC SB Ø2
STKC SA Ø2
STKC SB Ø3
STKC SA Ø3
MTDB STROBE Ø H
MTDC INH ØØ
MTDC INH Ø1
MTDC INH Ø2
MTDC INH Ø3
R67 5.62K
R78 10K 1/8W
C86 .047UF
C67 .047uF
R202
7528
74H04
74H74
8641
7437
3762
D672
C58 3300 PF
C59 3300PF
C69 3300 PF
C68 3300 PF
C60 6.8 uF
C61 6.8 uF
C71 6.8 uF
C70 6.8 uF
R69 120
R71 120
R80 120
R82 120
R73 2.0 3W
R74 2.0 3W
R85 2.0 3W
R34 2.0 3W
R72 5.1
R75 5.1
R86 5.1
R83 5.1
+5V
(SENSE INHIBIT BITS ØØ-Ø3)
REVISIONS
CHK
CHANGE NO.
REV.
TITLE MMV11-A 4KX16 BIT MEMORY (MTDC)
SIZE D
CODE CS
NUMBER G653-0-1
REV. F
SCALE
SHEET 5 OF 8
DIST.



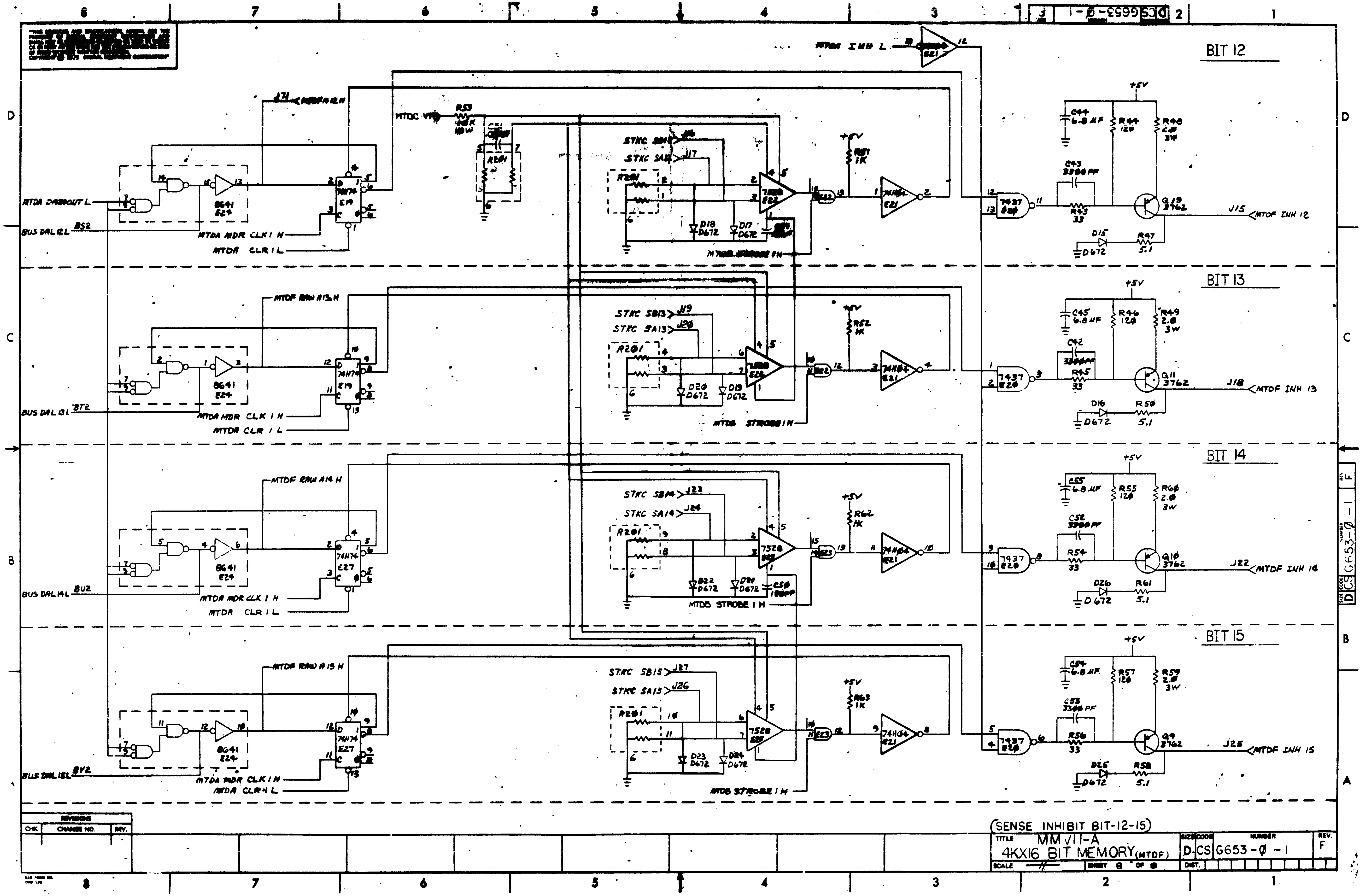
BIT Ø4
BIT Ø5
BIT Ø6
BIT Ø7
BUS DAL 4 L
BUS DAL 5 L
BUS DAL 6L
BUS DAL 7L
MTDA MDR CLK Ø H
MTDA CLR Ø L
J65 MTDD A5 H
J63 MTDD A6 H
J64 MTDD A7 H
MTDC VTH
STKC SBØ6
STKC SAØ6
STKC SBØ7
STKC SAØ7
MTDB STROBE Ø H
J43 MTDD INH Ø4
J46 MTDD INH Ø5
J5Ø MTDD INH Ø6
J53 MTDD INH Ø7
8641 E39
74H74 E42
74H74 E5Ø
7528 E45
7528 E49
74H04 E44
7437 E43
3762
D672
+5V
(SENSE INHIBIT BITS 4 -7)
MMV11-A
4KX16 BIT MEMORY (MTDD)
D CS G653-Ø-1
REV. F
SHEET 6 OF 8
REVISIONS

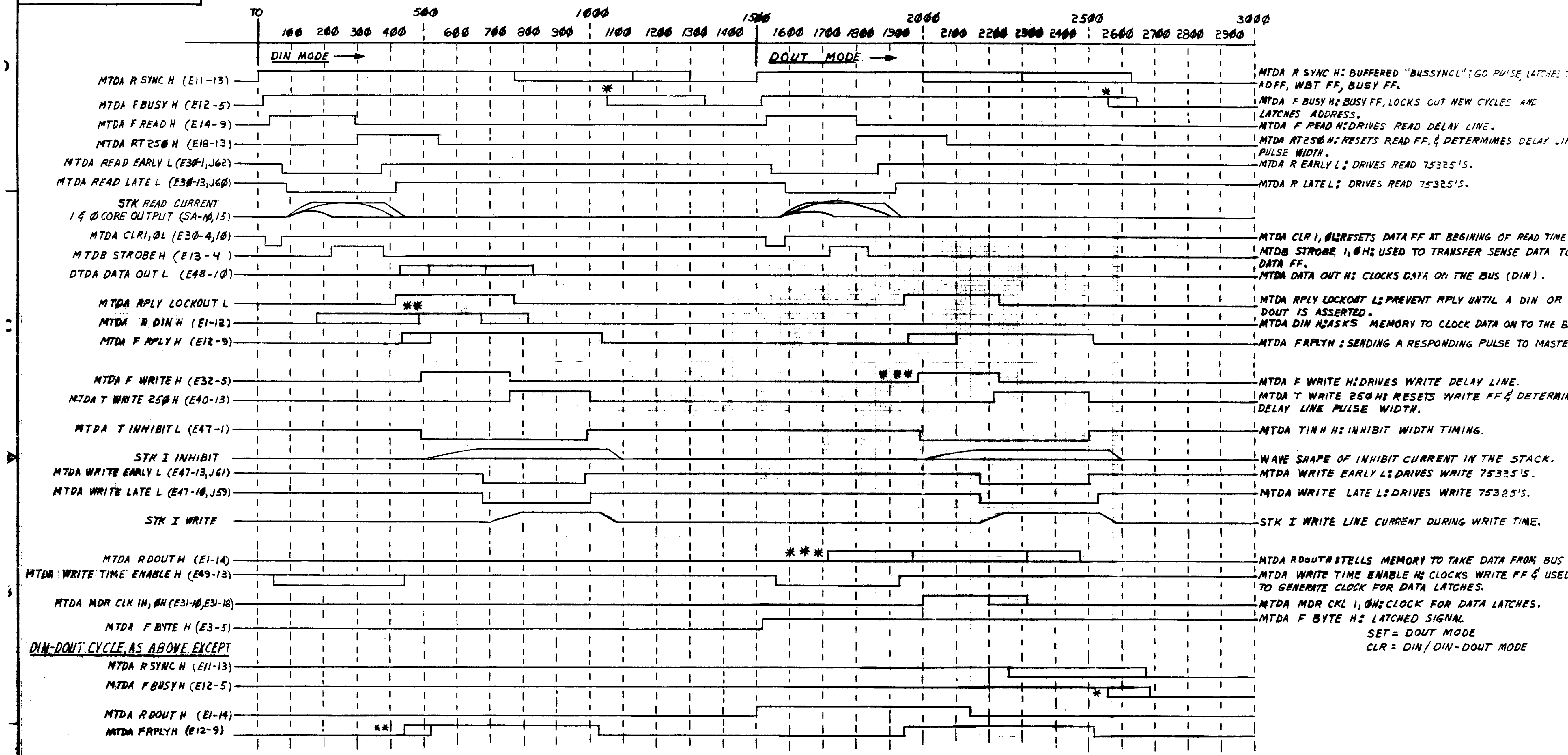


(SENSE INHIBIT BITS 8-11)

TITLE	SIZE	CODE	NUMBER	REV.
MMV11-A 4KX16 BIT MEMORY (MTDE)	D	CS	G653-Ø-1	F

SCALE — SHEET 7 OF 8


BIT 12
BIT 13
BIT 14
BIT 15
MTDA INH L
MTDA DATAOUT L
BUS DAL 12 L
BUS DAL 13 L
BUS DAL 14 L
BUS DAL 15 L
MTDA MDR CLK 1 H
MTDA CLR 1 L
MTDF RAW A13 H
MTDF RAW A14 H
MTDF RAW A15 H
STKC SB13
STKC SA13
STKC SB14
STKC SA14
STKC SB15
STKC SA15
MTDB STROBE 1 H
+5V
MTDF INH 12
MTDF INH 13
MTDF INH 14
MTDF INH 15
(SENSE INHIBIT BIT-12-15)
MM V11-A
4KX16 BIT MEMORY (MTDF)
D CS G653-Ø-1
F



* BUSY WILL NOT RESET UNTIL SYNC GOES AWAY, AND RPLY GOES AWAY.
** IF DIN COMES AFTER REPLY LOCKOUT GOES AWAY, REPLY WILL FOR DIN.
*** IF DOUT COMES AFTER REPLY LOCKOUT GOES AWAY, REPLY WILL WAIT FOR DOUT, AND CLK & WRITE WILL SHIFT LATE ACCORDINGLY.

DRN.	Silvia 6-26-75
CHK'D	8-?-75
ENG.	8-19-75
PROJ. ENG.	8-19-75
PROD.	8-19-75
NEXT HIGHER ASSY.	
SCALE	—
SHEET	1 OF 1

FIRST USED ON: MMV11-A

digital

TITLE: MMV11-A TIMING (MTDA)

SIZE: D CODE: TD NUMBER: MMV11-A-1 REV: *

DEC FORM NO. DRD 102-D

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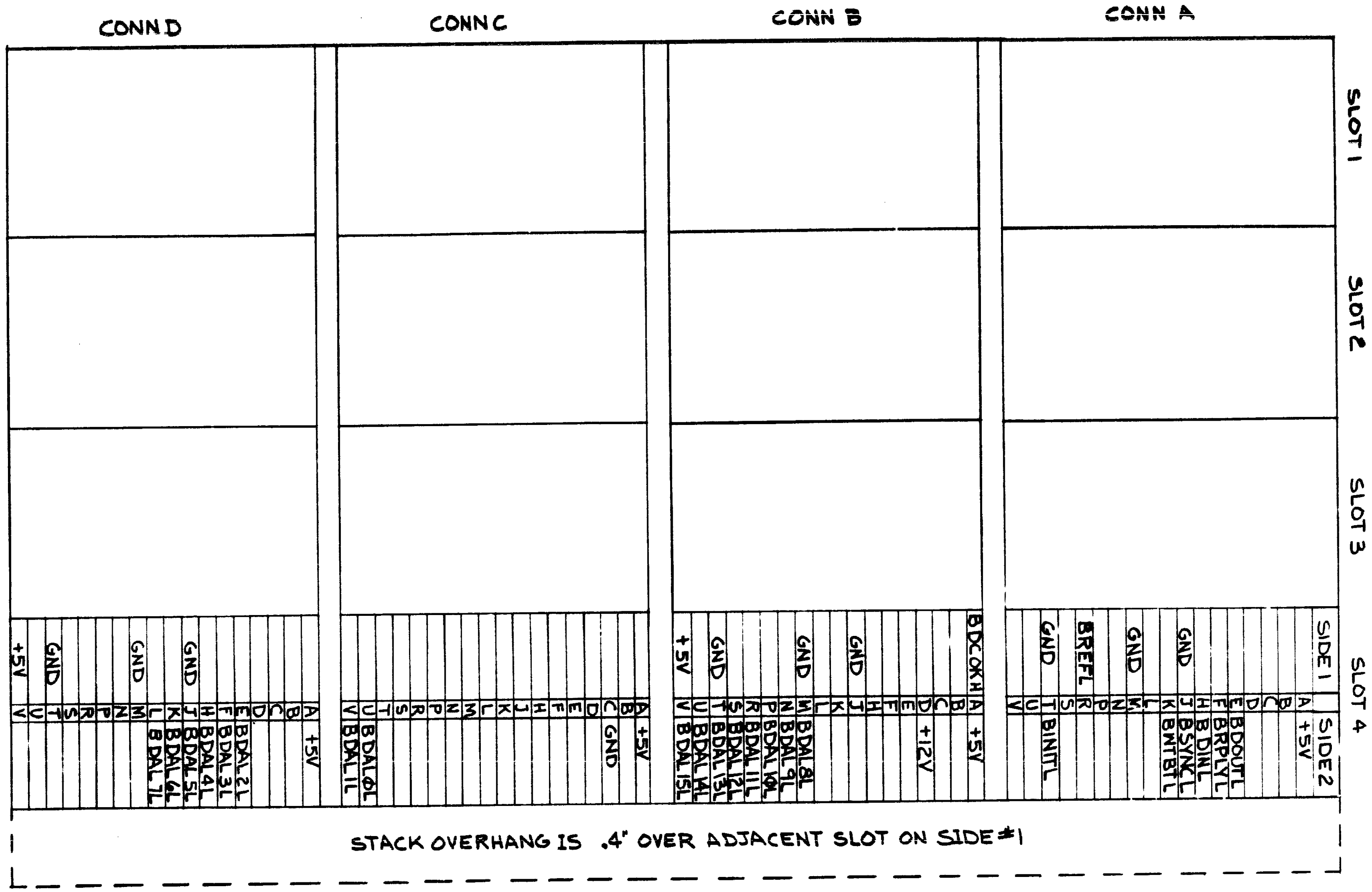


SIDE #1 IS COMPONENT SIDE

NOTES:

1. PIN SIDE VIEW OF BACKPLANE; G653 SHOWN PLUGGED INTO ITS NORMAL SLOT 4, COMPONENT SIDE UP. G653 MAY BE PLUGGED INTO ANY SLOT. THE H223 PLUGS ONTO THE G653 ONLY AND NOT INTO THE BACKPLANE.
2. SET UP BANK SELECT ON G653 PER D-CS-G653-0-1, SHEET #1. SIGNALS SHOWN ARE THOSE USED BY THE MMV11-A, NOT THE TOTAL LSI11 BUS.
3. JUMPERS C2M2 TO C3N2 (BIAKI,OL) AND C2R2 TO C3S2 (BDMGI,OL) ARE REQUIRED FOR A G653 IN SLOT #2. NO BUS PRIORTY JUMPERS ARE REQUIRED FOR THE FOLLOWING SITUATIONS: A G653 PLUGGED INTO SLOTS 1,3 OR 4 OR A PAIR OF G653'S IN SLOTS 1&3 OR 2&4.

REV.	CHANGE NO.	CHK

REVISIONS

QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION/MODEL

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X,XX = ±0,10	.XXX = ±.005	±0° 30'
X,X = ±0,5	.XX = ±.02	
X = ±2,	.X = ±.1	

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL

FINISH

		DATE
DRN.	W. LUFKIN	8/11/75
CHK'D	W. Lufkin	8/12/75
ENG.	P. Dupratt	
PROJ. ENG.	P. Dupratt	
PROD.	C. Tanner	8-20-75

NEXT HIGHER ASSY.

digital

TITLE
MMV11-A PIN ALLOCATION

SIZE	CODE	NUMBER	REV.
C	MU	MMV11-A-2	

SCALE

SHEET 1 OF 1

DIST.

C MU MMV11-A-2

FORM NO. 111

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 7/17/75

TITLE MMV11-A ENGINEERING SPECIFICATION

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

The MMV11-A is a 4K X 16 core memory, compatible with the LSI-11 Bus, to be packaged on a quad plug-in module .9" thick.

1.0 Physical Description:

The system is made from two (2) quad modules which plug together with Amp Mod U Pins. The G653 MMV11-A main board module is a DEC standard quad 8-1/2" module using a DEC standard quad metal handle and pinned on the four connectors for the LSI-11 Bus. It contains the interface, control and timing logic, the bus receivers and drivers, the 16 data loops and the +5 to -5 converter. The H223 stack module is a non-standard quad with no handles, no connectors and with the sides trimmed .187" so as not to interfere with card guides. It plugs onto the #2 side of the G653 via the Amp Pins and spacing between boards will be .400" center to center. The H223 stack module contains the core substrate, steering diodes, stack charge circuit and the drive matrix.

ENG P.Durant 8/19/75	APPD P.Durant 9/1/75	SIZE A	CODE SP	NUMBER MMV11-A -3	REV

DEC 16-(382)-1079-N971
DRA 107

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE MMV11-A ENGINEERING SPECIFICATION

2.0 Power Supply Requirements

Voltages/Currents Required at Memory Connectors:

	Standby	Active
12V ± 3%	.200 A	.600 A
5V ± 5%	3.0 A	6.0 A

These currents represent 1.2 usec rep rate, all 0 operation. The algorithm to calculate actual power required from +5 supply is I Standby + $\left[(\text{I Active} - \text{I Standby} \times \frac{1.2\ \text{usec}}{\text{Actual Rep Rate}} \times \frac{\#\ \text{of 0's}}{16}\right]$

Max Power Dissipation: G653 = 20W H223 = 17W

3.0 Performance

Temp Spec	System will have operating margin over the range 5 - 50°C, input air. Air flow 200 lin. ft/min.
At 25 C	
T Cycle	1.2 usec Max 1.10 Typ
T Access	475 ns Max 425 Typ
ΔVth	18 mv Nominal ± 7 mv
T Strobe	Nominal ± 25 ns
Δ+5V	5.0V ± .4V (± 8%)
Δ+12V	12.0V ± .7V (± 6%)

Memories will be tested on 2223 auto exerciser per program AUTOCAT-08-QHMVA-A.

The MMV11-A functions in accordance with the LSI-11 Bus Spec on DATI, DATO and DATIO Modes. Jumpers must be installed on backplane to bypass the bus grant signals around the memory.

SIZE A	CODE SP	NUMBER MMV11-A -3	REV

DEC FORM NO EN-01022-16-N370-(361)
DRA 108

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE MMV11-A ENGINEERING SPECIFICATION

The 4K bank location is switch programmable on the 4K boundries starting at 0, 4K etc. to 28K.

The memory can be "On Line" strobe margined by grounding pins on the test connector at the rear of the module (J0). Grounding Pin J0-5 moves strobe 25ns earlier than nominal, J0-7 grounded moves strobe 25ns later than nominal. All programs should run in both positions if +5 and +12V are at nominal.

SIZE A	CODE SP	NUMBER MMV11-A -3	REV

DEC FORM NO EN-01022-16-N370-(361)
DRA 108

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY P. GROSSE DATE 20 JULY 76	CHECKED D. Chiasson DATE 20 July 76	SECTION 1
ENG C. JAMES DATE 20 JULY 76	PROD R. HOLZER DATE 20 JULY 76	ISSUED SECT. 1

QUANTITY/VARIATION

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	MMV11-A											
1	B-DD-MMV11-A	CUSTOMER PRINT SET	1											
2	MD-11-DZKMA-A-DB	MOS CORE MEMORY EXERCISER	1											

TITLE 4K X 16 BIT MEMORY SHIPPING LIST	ASSY NO.	SIZE A	CODE PL	NUMBER MMV11-A-4	REV.	ECO NO. MMV11-A-C0002
	SHEET 1 OF 1	DIST.				

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

DRAWING DIRECTORY

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-L-2

UNIT VARIATIONS

VAR	TITLE
KD11-L	PROC/4K RAM MEMORY & KEV11

REVISIONS

REV.	CHANGE NO.	CHK
B	KD11-H-2 REVISED & REDRAWN	

USED ON OPTION/MODEL

DRN.	DATE
R. RILEY	7/11/75
CHK'D. D. HEALY	9/8/75
PROJ. ENG. D DEROME	9/8/75
PROD. D DEROME	9/8/75

TITLE: DRAWING DIRECTORY KD11-L

digital

SIZE	CODE	NUMBER	REV
B	DD	KD11-L	B

DIST.

SHEET 1 OF 2

DRB 106A

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1			
	B-TC-KD11-L-2	FIELD MAINTENANCE PRINT SET	M
	MP00052	PRINT SET ORDER NO.	M
	C-UA-KD11 [illegible]	FR[illegible]/4K RAM MEMORY & KEV11	E/M
2	B-DD-KEV11-Ø	DRAWING DIRECTORY KEV11	E/M
3	B-DD-KD11-F	DRAWING DIRECTORY KD11-F	E/M
4	A-PL-KD11-L-1	SHIPPING LIST KD11-L	E

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

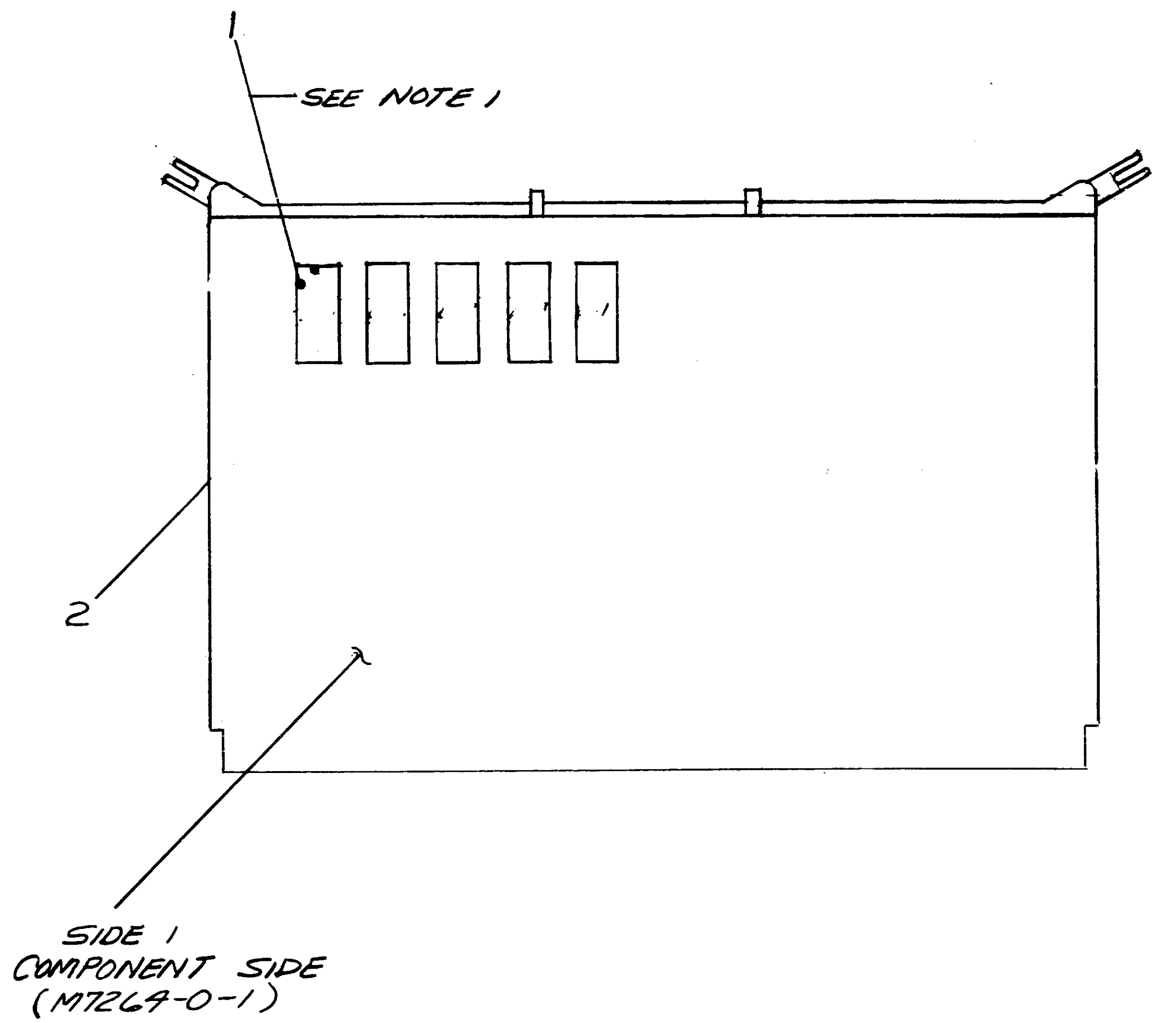
TYPE: E ELECTRICAL
M MECHANICAL
E/M ELECTRO/MECHANICAL

digital

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY KD11-L	SHEET 2 OF 2	B	DD	KD11-L	F

DRB 108A

NOTES:
1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PROC/4K RAM MEM	A-PL-KD11-F-Ø	2
1	EIS/FIS (EAE & FLOAT. PT.)	A-PL-KEV11-Ø-Ø	1

PARTS LIST

FIRST USED ON OPTION/MODEL: 11/03

~~DIMENSIONAL TOLERANCE~~
~~DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED~~

MILLIMETERS	INCHES	ANGLES
X.XX = ± 0.10 X.X = ± 0.5 X = ± 2	.XXX = ± .005 .XX = ± .02 .X = ± .1	±0° 30'

THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL: SEE PARTS LIST
FINISH: —||—

		DATE
DRN.		9-15-75
CHK'D.	B. Healy	9-15-75
ENG.		9/23/75
PROJ. ENG.		9/23/75
PROD.		9/17/75

NEXT HIGHER ASSY.: B-DD-KD11-L
SCALE: NONE
SHEET 1 OF 1

digital

TITLE: PROCESSOR/4K RAM MEMORY & KEV11

SIZE: C | CODE: UA | NUMBER: KD11-L-Ø | REV.:

DIST.

REVISIONS | REV. | CHANGE NO. | CHK

SIZE C | CODE UA | NUMBER KD11-L-Ø | REV.

DEC FORM NO. DRC 100-5

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

	SEQUENCE
DRAWING DIRECTORY KEV11	B-DD-KEV11-Ø
MICROM EIS FIS OPTION	A-PL-KEV11-Ø-Ø
SHIPPING LIST	A-PL-KEV11-Ø-1
UNIT ASSEMBLY KD11-L	C-UA-KD11-L-1

SEQUENCE

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1			
KEV11-Ø	MICROM EIS, FIS OPTION	X			
KEV11-A	MICROM EIS, FIS OPTION	X			

REVISIONS

REV	CHG. NO.	DATE
A	KEV11-1	1-76
B	KEV11-2	2-76
C	KEV11-3	4-77
D	KEV11-4	5-77

USED ON OPTION/MODEL	
11/Ø3	

		DATE
DRN.	R. RILEY	7/11/75
CHK'D.	D. HEALY	9/8/75
PROJ ENG.	[signature]	10/17/75
PROD.	[signature]	10/17/75
FIELD SERV.	[signature]	10/17/75

TITLE DRAWING DIRECTORY KEV11

SIZE	CODE	NUMBER	REV
B	DD	KEV11-Ø	D

DIST

SHEET 1 OF 2

EN-01062-1A-16-R872-(3/5)

DRB 106

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
ELECTRICAL (SECTION 1)							
X		1	A-PL-KEV11-Ø-Ø	B	1	MICROM EIS, FIS OPTION	
		2	A-PS-23091A5-01			PURCHASE SPECIFICATION	
			A-PS-2300385			PURCHASE SPECIFICATION	
X		3	A-PL-KEV11-Ø-1	A	1	SHIPPING LIST	
X		4	C-UA-KD11-L-1		1	UNIT ASSEMBLY KD11-L	

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO / FILE DATE
MECHANICAL (SECTION 2)							
		1	A-PL-KEV11-Ø-Ø	B	1	MICROM EIS, FIS OPTION	
		2	A-PS-23091A5-01			PURCHASE SPECIFICATION	
			A-PS-2300385			PURCHASE SPECIFICATION	
		3	A-PL-KEV11-Ø-1	A	1	SHIPPING LIST	
		4	C-UA-KD11-L-1		1	UNIT ASSEMBLY KD11-L	
		5	A-PS-9905812-0-0			BOX, PAPER SET-UP/FOAM	

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY KEV11	2 OF 2	B	DD	KEV11	D

DRB 108

digital EN-01062-2B-16-R972-(325)

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. RILEY DATE 7/11/75	CHECKED D. HEALY DATE 9/8/75	SECTION 1
ENG Arnold P. Ghan DATE 10/17/75	PROD Dan Detmore DATE 10-16-75	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	KEV11-0	KEV11-A
1	23091A5-01	MICROM MOS CHIP	1	-
2	2300385	MICROM MOS CHIP	-	1
3	A-PS-9905812-0-0	BOX, PAPER SET-UP WITH FOAM	1	1

QUANTITY/VARIATION

TITLE MICROM EIS , FIS OPTION	ASSY NO. NONE	SIZE A	CODE PL	NUMBER KEV11-Ø-Ø	REV. C	ECO NO. KEV11-000C4
	SHEET 1 OF 1	DIST.				

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

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY Liz Hevesh DATE 1/19/76	CHECKED DICK HUT DATE 2-76	SECTION 1	
ENG Duane Dickhut DATE	PROD DICK HUT DATE 2-76	ISSUED SECT. 1	

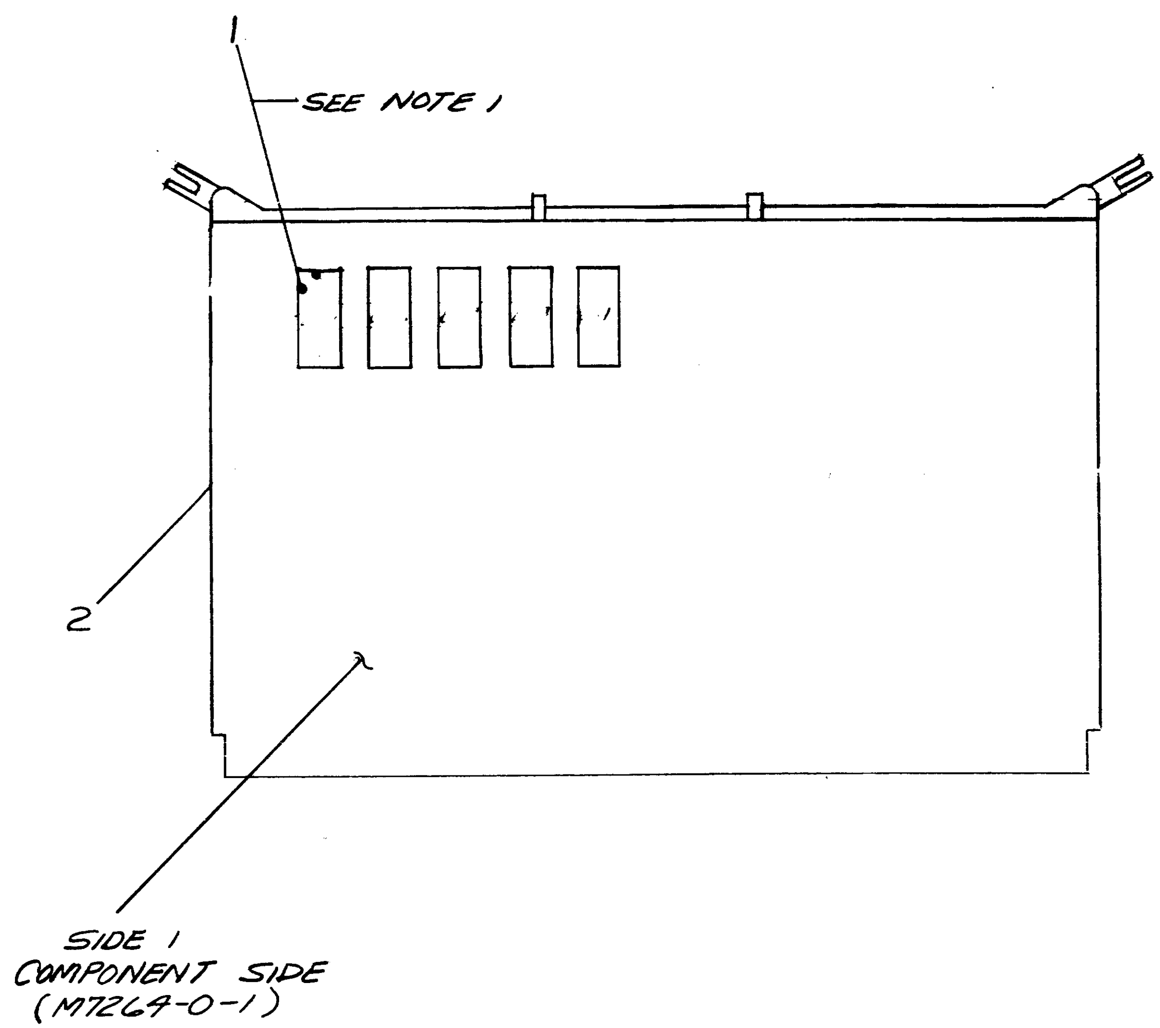
ITEM NO.	DWG NO./PART NO.	DESCRIPTION	KEV11-0	KEV11-A
1	DEC11-DVKAB-A-PB	EIS TEST PAPER TAPE	*	*
2	DEC11-DVKAC-A-PB	FIS TEST PAPER TAPE	*	*
3	EK-KEV11-IP-001	INSTALLATION PROCEDURE KEV11	*	*
4	DEC11-DVKAB-A-D	EIS TEST DOCUMENT	*	*
5	DEC11-DVKAC-A-D	FIS TEST DOCUMENT	*	*
6	B-DD-KEV11-Ø	CUSTOMER PRINT SET	1	1
		* NOTE: These items are shipped with first ship to customer.		

QUANTITY/VARIATION

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
SHIPPING LIST - KEV11		A	PL	KEV11-Ø-1	A	KEV11-00003
	SHEET 1 OF 1	DIST.				

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

NOTES:
1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PROC/4K RAM MEM	A-PL-KD11-F-Ø	2
1	EIS/FIS (EAE & FLOAT. PT.)	A-PL-KEV11-Ø-Ø	1

PARTS LIST

FIRST USED ON OPTION/MODEL: 11/03

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX = ± 0.10 X.X = ± 0.5 X = ± 2	.XXX = ± .005 .XX = ± .02 .X = ± .1	±0° 30'

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL: SEE PARTS LIST

FINISH: —

DRN.	[illegible]	DATE 9-15-75
CHK'D.	D. Healy	DATE 9-15-75
ENG.	[illegible]	DATE 9/23/75
PROJ. ENG.	[illegible]	DATE 9/23/75
PROD.	[illegible]	DATE 9/17/75

NEXT HIGHER ASSY.: B-DD-KD11-L

SCALE: NONE

SHEET 1 OF 1

digital

TITLE: PROCESSOR/4K RAM MEMORY & KEV11

SIZE	CODE	NUMBER	REV.
C	UA	KD11-L-Ø	

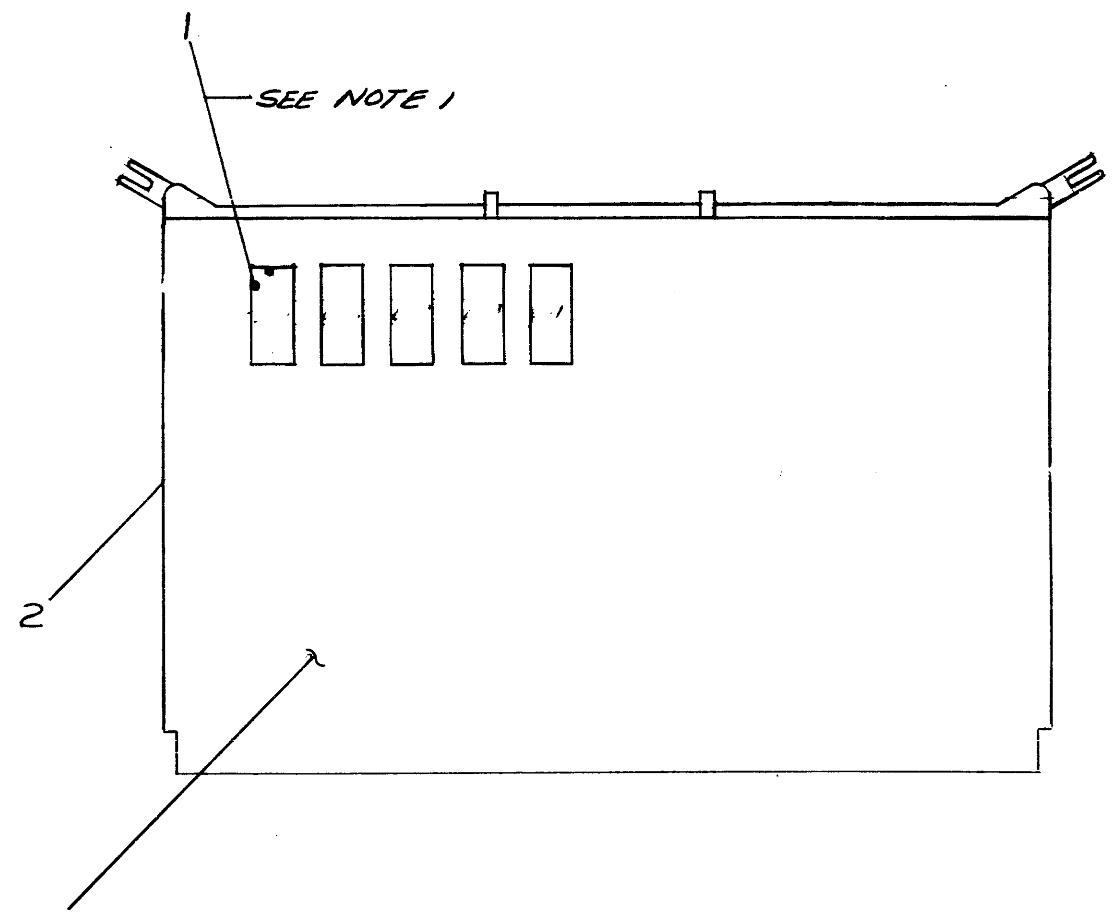
DIST.

REVISIONS: REV. | CHANGE NO. | CHK

SIZE C CODE UA NUMBER KD11-L-Ø REV.

DEC FORM NO. DRC 100-0

NOTES:
1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED



SIDE 1
COMPONENT SIDE
(M7264-0-1)

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PROC/4K RAM MEM	A-PL-KD11-F-Ø	2
1	EIS/FIS (EAE & FLOAT. PT.)	A-PL-KEV11-Ø-Ø	1

PARTS LIST

FIRST USED ON OPTION/MODEL: 11/03

~~DIMENSIONAL TOLERANCE~~
~~DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED~~

MILLIMETERS	INCHES	ANGLES
X.XX = ±0.10 X.X = ±0.5 X = ±2	.XXX = ±.005 .XX = ±.02 .X = ±.1	±0° 30'

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL: SEE PARTS LIST

FINISH: —

		DATE
DRN.	[illegible]	9-15-75
CHK'D.	B. Tobaly	9-15-75
ENG.	[illegible]	9/23/75
PROJ. ENG.	[illegible]	9/23/75
PROD.	[illegible]	9/17/75

NEXT HIGHER ASSY.: B-DD-KD11-L

SCALE: NONE

SHEET 1 OF 1

digital

TITLE: PROCESSOR/4K RAM MEMORY & KEV11

SIZE	CODE	NUMBER	REV.
C	UA	KD11-L-Ø	

DIST.

REVISIONS: REV. | CHANGE NO. | CHK

SIZE C CODE UA NUMBER KD11-L-Ø REV.

DEC FORM NO. DRC 100-8

DRAWING DIRECTORY

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

SEQUENCE

SEQUENCE

NOTE
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-M-2

UNIT VARIATIONS

VAR	TITLE	PRINT SET
KD11-M	PROC/4K CORE & KEV 11	

REVISIONS

REV	CHG. NO.	DATE
A	KD11M-00001	12-75
B	KD11M-00002	5-76

USED ON OPTION/MODEL	
11/03	

		DATE
DRN.	R. RILEY	7/11/75
CHK'D.	D. HEALY	9/8/75
PROJ ENG.	[signature]	10/17/75
PROD.	[signature]	10/17/75
FIELD SERV.	[signature]	[illegible]

TITLE: DRAWING DIRECTORY KD11-M

SIZE	CODE	NUMBER	REV
B	DD	KD11-M	B

DIST

SHEET 1 OF 2

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	C-UA-KD11-M-Ø		1	PROC/4K CORE MEMORY & KEV11	
		2	B-DD-KD11-J		2	DRAWING DIRECTORY KD11-J	
		3	B-DD-KEV11-Ø		2	DRAWING DIRECTORY KEV11	
		4	A-PL-KD11-M-1		1	SHIPPING LIST KD11-M	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	C-UA-KD11-M-Ø		1	PROC/4K CORE MEMORY & KEV11	
		2	B-DD-KD11-J		2	DRAWING DIRECTORY KD11-J	
		3	B-DD-KEV11-Ø		2	DRAWING DIRECTORY KEV11	
		4	B-TC-KD11-M-2	*	REF	FIELD MAINTENCE PRINT SET	
			MPØØØ53		REF	PRINT SET ORDER NO.	

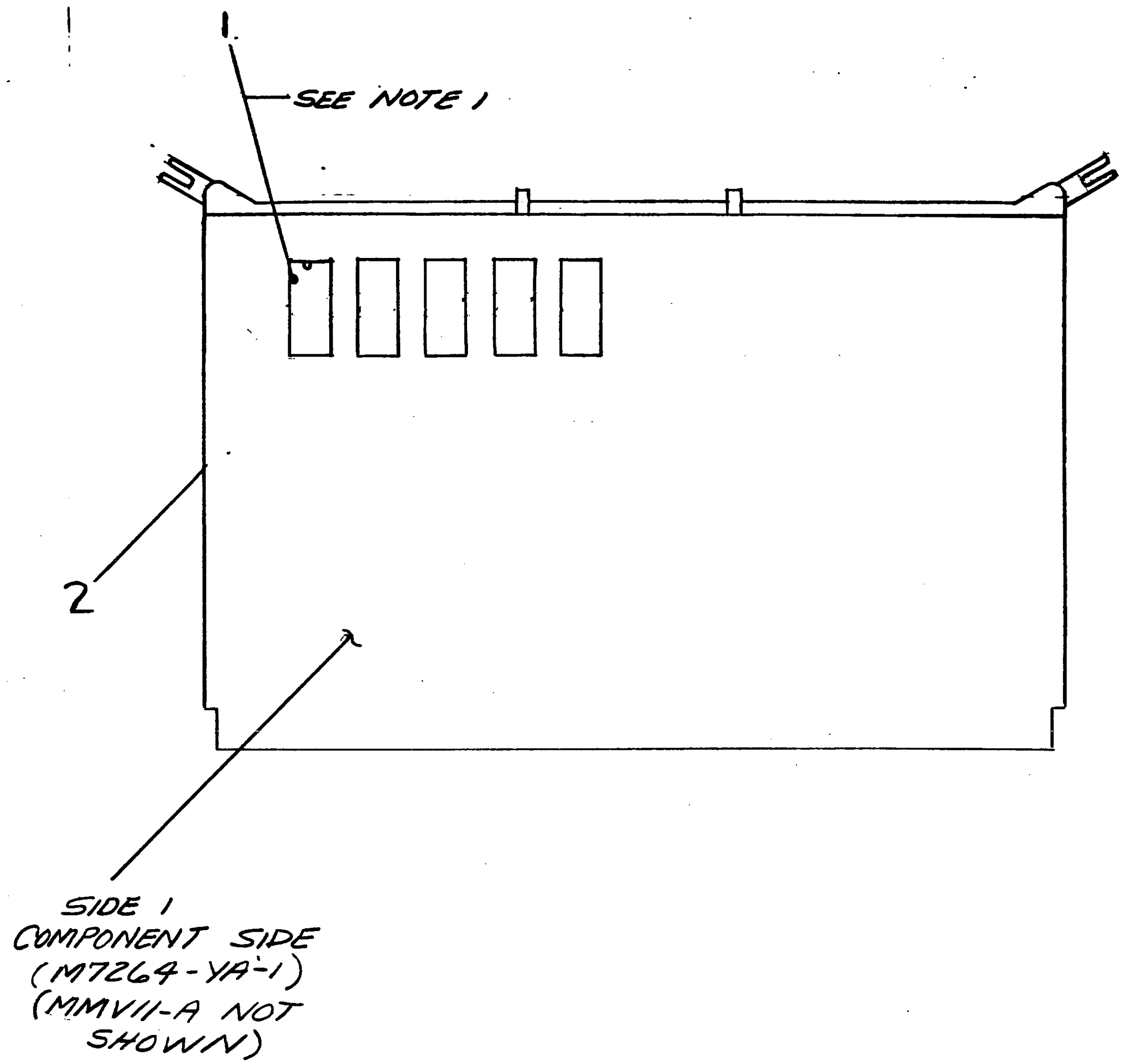
CUSTOMER PRINT SET CODES		TITLE		SIZE	CODE	NUMBER	REV
	X = PRINT OF DOCUMENT INCLUDED IN PRINT SET C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT $ = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED	DRAWING DIRECTORY KD11-M	SHEET 2 OF 2	B	DD	KD11-M	R

DRB 108

digital EN-01062-28-16-R972-(325)

NOTES:

1. WHEN INSTALLING ITEM 1, MAKE SURE DOT ON IC IS MOUNTED WITH CIRCLE AT TOP LEFT OR VOLTAGES WILL BE REVERSED



QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PROC/4K CORE MEM	A-PL-KD11-J-Ø	2
1	EIS/FIS (EAE FLOAT. PT.)	A-PL-KEV11-Ø-Ø	1

PARTS LIST

FIRST USED ON OPTION/MODEL: 11/03

DIMENSIONAL TOLERANCE
DIMENSIONS ARE MILLIMETERS / INCHES UNLESS OTHERWISE SPECIFIED

MILLIMETERS	INCHES	ANGLES
X.XX = ±0.10 X.X = ±0.5 X = ±2	.XXX = ±.005 .XX = ±.02 .X = ±.1	±0° 30'

THIRD ANGLE PROJECTION
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL: SEE PARTS LIST
FINISH: —

DRN. DATE 9-15-75
CHK'D. DATE 9-15-75
ENG. DATE 9/23/75
PROJ. ENG. DATE 9/23/75
PROD. DATE 9/17/75
NEXT HIGHER ASSY.: B-DD-KD11-M
SCALE: NONE
SHEET 1 OF 1

digital

TITLE: PROCESSOR/4K CORE MEMORY & KEV11

SIZE	CODE	NUMBER	REV.
C	UA	KD11-M-Ø	

DIST.

REVISIONS: REV. | CHANGE NO. | CHK

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

SEQUENCE SEQUENCE

THIS IS PRINT SET

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-R-2

UNIT VARIATIONS

VAR	TITLE	PRINT SET
KD11-R	PROC/16K MOS MEMORY	

REVISIONS: REV | CHG. NO. | DATE

USED ON OPTION/MODEL: 11/03

SHEET 1 OF 2

DRN. | DATE
CHK'D. | DATE
PROJ ENG. | DATE
PROD. | DATE
FIELD SERV. | DATE

TITLE: DRAWING DIRECTORY KD11-R

SIZE	CODE	NUMBER	REV
B	DD	KD11-R	

DIST

EN-01062-1A-16-R972-(325)

DRB 106

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	B-TC-KD11-R-2	FIELD MAINTENANCE PRINT SET	M
	MPØØØ277	PRINT SET ORDER NO.	M
	A-PL-KD11-R-Ø	PROCESSOR WITH 16K MOS MEMORY	E/M
	A-PL-KD11-R-1	SHIPPING LIST KD11-R	E
2	B-DD-KD11-H	DRAWING DIRECTORY KD11-H	E/M
3	B-DD-MSV11-C	DRAWING DIRCTORY MSV11-C	E/M

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

digital

TITLE DRAWING DIRECTORY KD11-R

SHEET 2 OF 2	SIZE	CODE	NUMBER	REV
	B	DD	KD11-R	

DRB 108A

EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE

SEQUENCE

NOTE:
FOR FIELD MAINTENANCE
PRINT SET REFER TO
B-TC-KD11-S-2

UNIT VARIATIONS

VAR	TITLE	PRINT SET			
KD11-S	PROC/16K MOS MEMORY/EIS/FIS				

REVISIONS	
REV	
CHG. NO.	
DATE	

USED ON OPTION/MODEL	
11/03	

SHEET 1 OF 2

DRN.	R. COOK	DATE	7/12/77
CHK'D.	R. COOK	DATE	7/12/77
PROJ ENG.	Duke Benoit	DATE	7/14/77
PROD.	[illegible]	DATE	9/14/77
FIELD SERV.	B. Kennedy	DATE	14 July 77

TITLE
DRAWING DIRECTORY
KD11-S

SIZE	CODE	NUMBER	REV
B	DD	KD11-S	

DIST

EN-01062-1A-16-R972-(325)

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE
1	B-TC-KD11 S-2	FIELD MAINTENANCE PRINT SET	M
	MPØØ433	PRINT SET ORDER NO.	M
	C-UA-KD11-S-Ø	PROCESSOR WITH 16K MOS MEMORY AND EIS/FIS	E/M
	A-PL-KD11-S-1	SHIPPING LIST KD11-S	E
2	B-DD-KD11-H	DRAWING DIRECTORY KD11-H	E/M
3	B-DD-MSV11-C	DRAWING DIRECTORY MSV11-C	E/M
4	B-DD-KEV11-Ø	DRAWING DIRECTORY KEV11-A	E/M

FIND NO.	DRAWING NO.	DESCRIPTION	TYPE

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

digital

TITLE DRAWING DIRCTORY KD 11-S | SHEET 2 OF 2 | SIZE B | CODE DD | NUMBER KD11-S | REV

DRB 108A

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

UNIT VARIATIONS COVERED BY THIS PRINT SET
MSV11-CA
MSV11-CB
MSV11-CC
MSV11-CD

MSV11-C

Field Maintenance Print Set

Digital Equipment Corporation

MP00259

REVISIONS	
REV.	
CHG. NO.	
DATE	

USED ON OPTION/MODEL

SHEET 1 OF 1

DRN.	DATE 27 OCT 76
CHK'D	DATE 30 NOV. 76
PROJ. ENG.	DATE 30 NOV 76
FIELD SERV.	DATE 12/1/76

digital

TITLE: MSV11-C LSI MOS MEMORY

SIZE	CODE	NUMBER	REV.
B	TC	MSV11-C-4	*

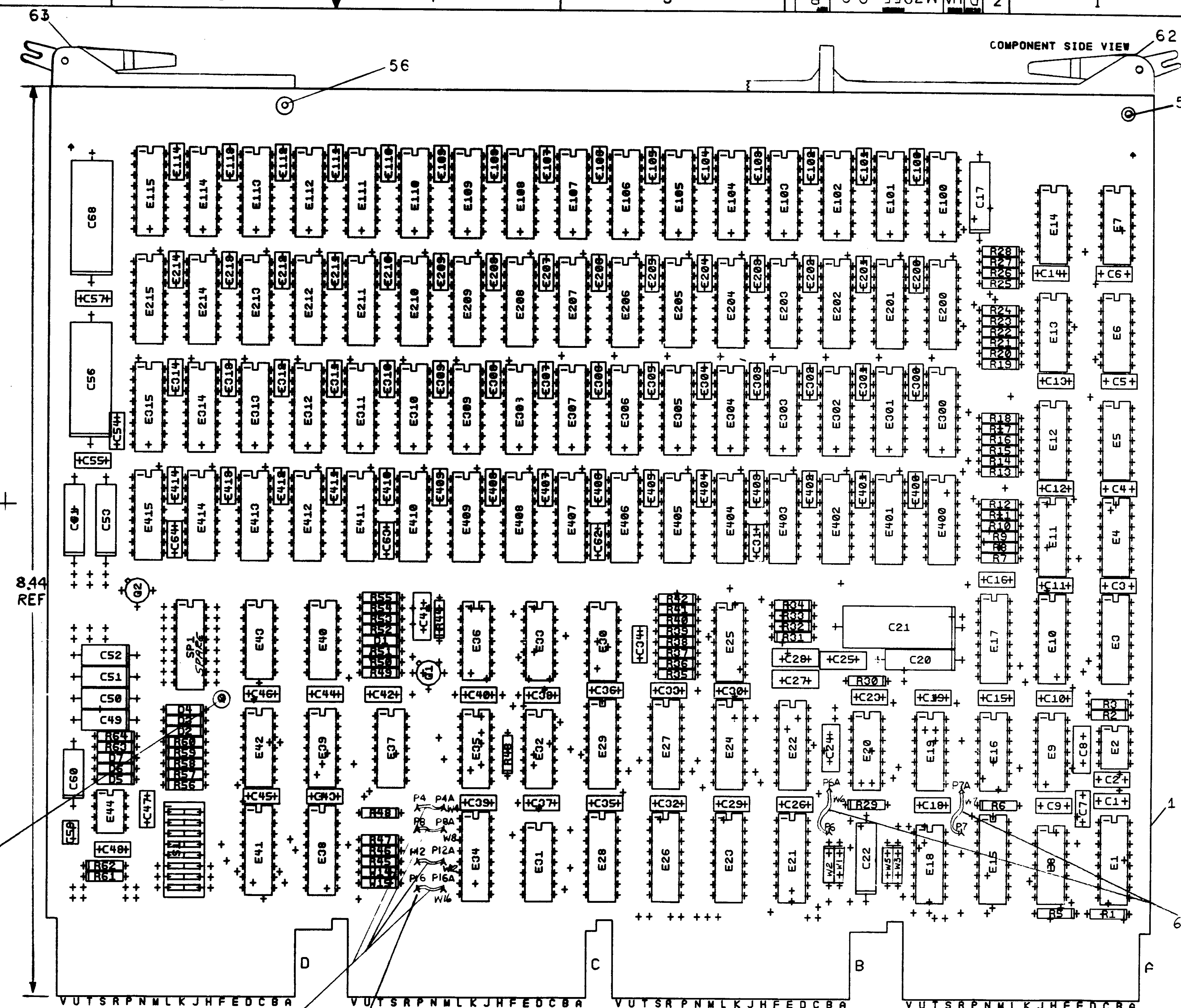
DIST.

EN-01124-18-N678-(327)

DRB 124

MODULE VARIATION: M7955-AD

NOTE: 1. FOR M7955-AC, SEE SHEET 2.
2. FOR M7955-AB, SEE SHEET 3.
3. FOR M7955-AA, SEE SHEET 4.



NOTES: 1. M7955-AD = M7955-YD & YJ.

FOR PL, SEE B-PL-M7955-0-0.

SIGNATURES	DATE
DRN. R. SULLIVAN	
CHK'D.	
ENG.	
PROJ. ENG.	11/2/76
PROD.	
SCALE 2 : 1	
SHT. 1 OF 9	
NEXT HIGHER ASSY. B-DD-M7955-0	

digital

TITLE MSVII-C LSI MOS MEMORY

SIZE D · CODE UA · NUMBER M7955-0-0 · REV B

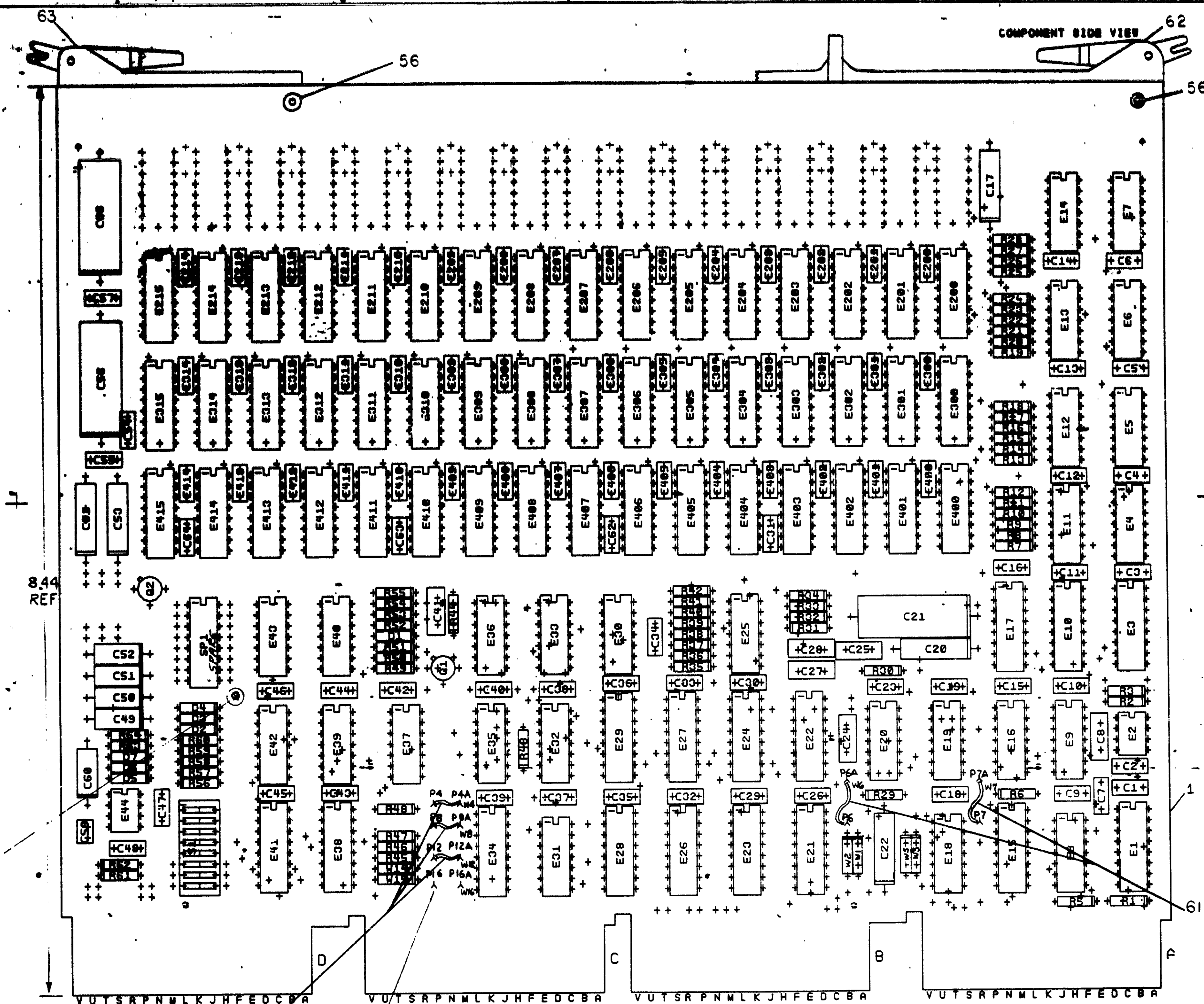
ETCH REV. C

P.C. DESIGN DATA BASE REV. C / CM

1 MS#81032

[redacted]

MODULE VARIATION: M7955-AC



NOTES: 1. M7955-AC = M7955-YC & YH.

CHK	CHANGE NO	REV

FOR PL, SEE B-PL-M7955-φ-φ

ETCH REV. C

P.C. DESIGN DATA BASE REV. CL/CM

SIGNATURES	DATE
DRN. R. CULLIVAN	
CHK'D.	
ENG.	
PROJ. ENG.	
PROD.	
SCALE 2 : 1	
SHT. 2 OF 9	
NEXT HIGHER ASSY. B-DD-M7955-0	

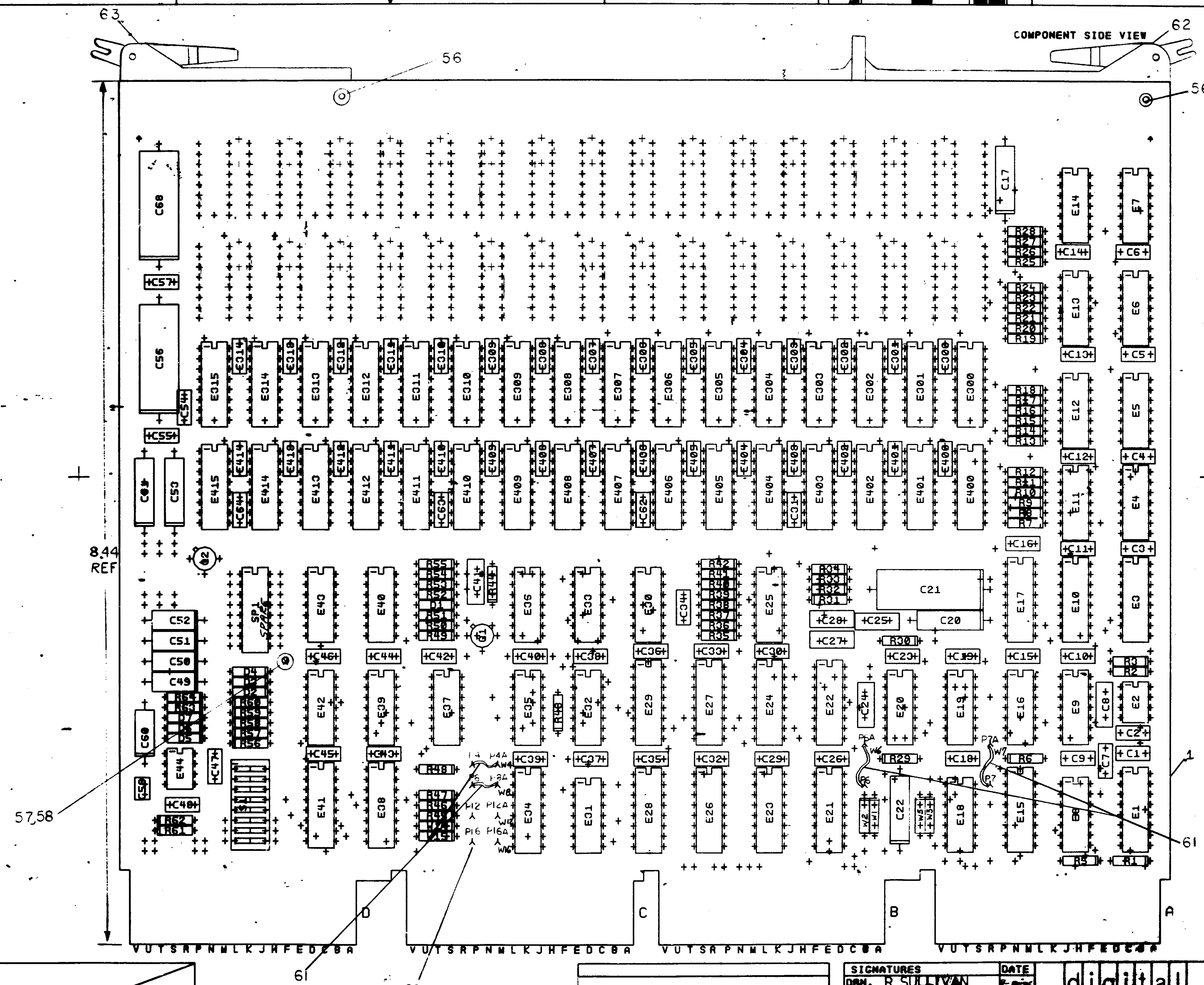
digital

TITLE MSV11-C LSI MOS MEMORY

SIZE	CODE	NUMBER	REV
D	UA	M7955-0-0	B

D UA M7955-0-0 B

MODULE VARIATION:
M7955-AB



NOTES: 1. M7955-AB = M7955-YB EYF.

FOR PL, SEE B-PL-M7955-Ø-Ø.

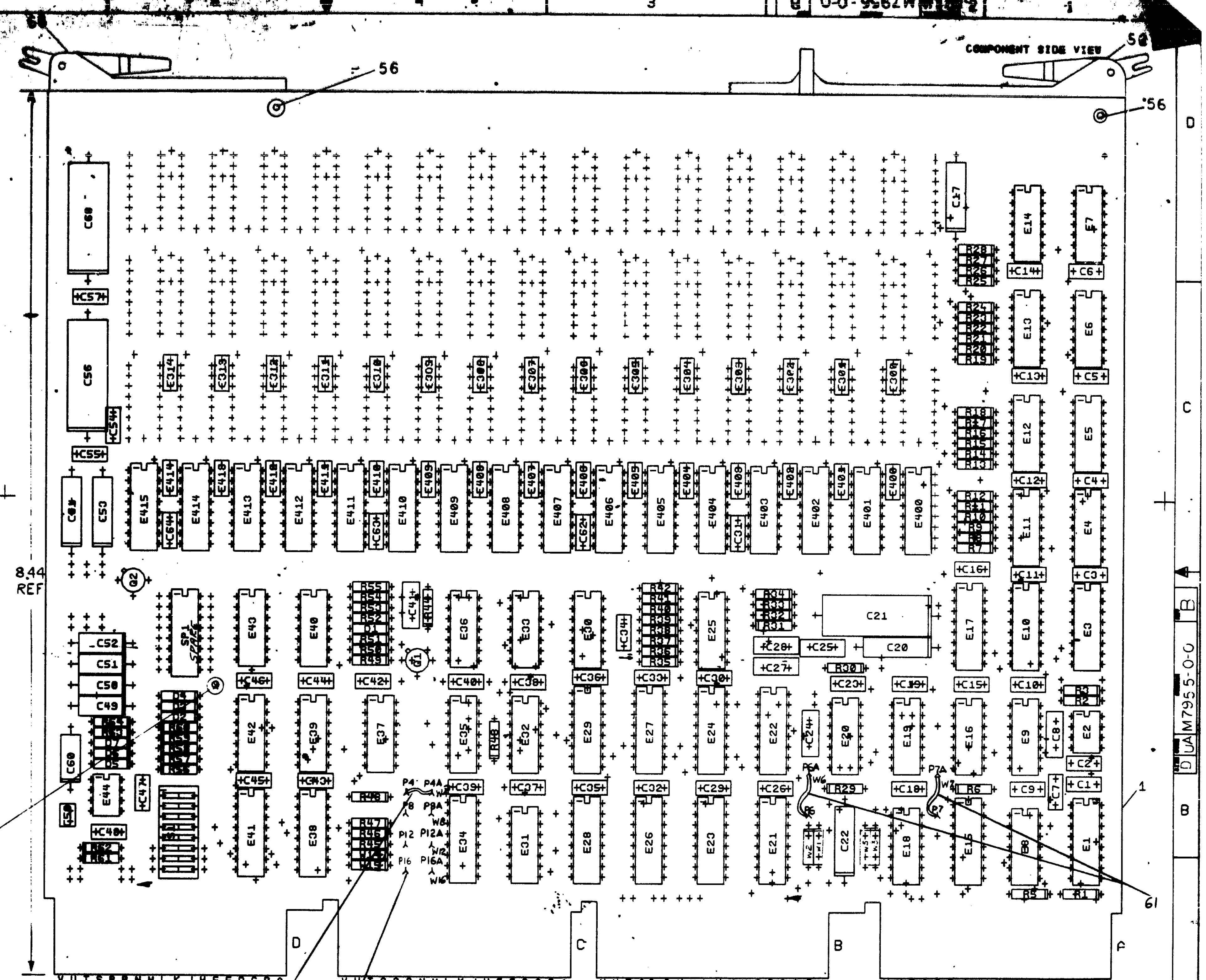
ETCH REV.	C
P.C. DESIGN DATA BASE REV.	CL/CM

SIGNATURES		DATE
DRN.	R. SULLIVAN	
CHK'D.		
ENG.		
PROJ. ENG.		
PROD.		
SCALE	2 : 1	
SHT.	3 OF 9	
NEXT HIGHER		

digital

TITLE MSV11-C LS? MOS

MODULE
VARIATION:
M7955-AA



NOTES: 1. M7955-AA = M7955-YA & YE.

FOR PL, SEE B-PL-M7955-Y-0

ETCH REV.	C
P.C. DESIGN DATA BASE REV.	CL / CM

SIGNATURES	DATE
DRN. R. SULLIVAN	7-?-76
CHK'D.	9/13/76
ENG.	11/18/76
PROJ. ENG.	11/18/76
PROD.	11/19/76
SCALE 2 :	
SHT. 4 OF 9	
NEXT HIGHER ASSY. B-DD-M7955-0	

digital

TITLE MSV11-C LSI MOS MEMORY

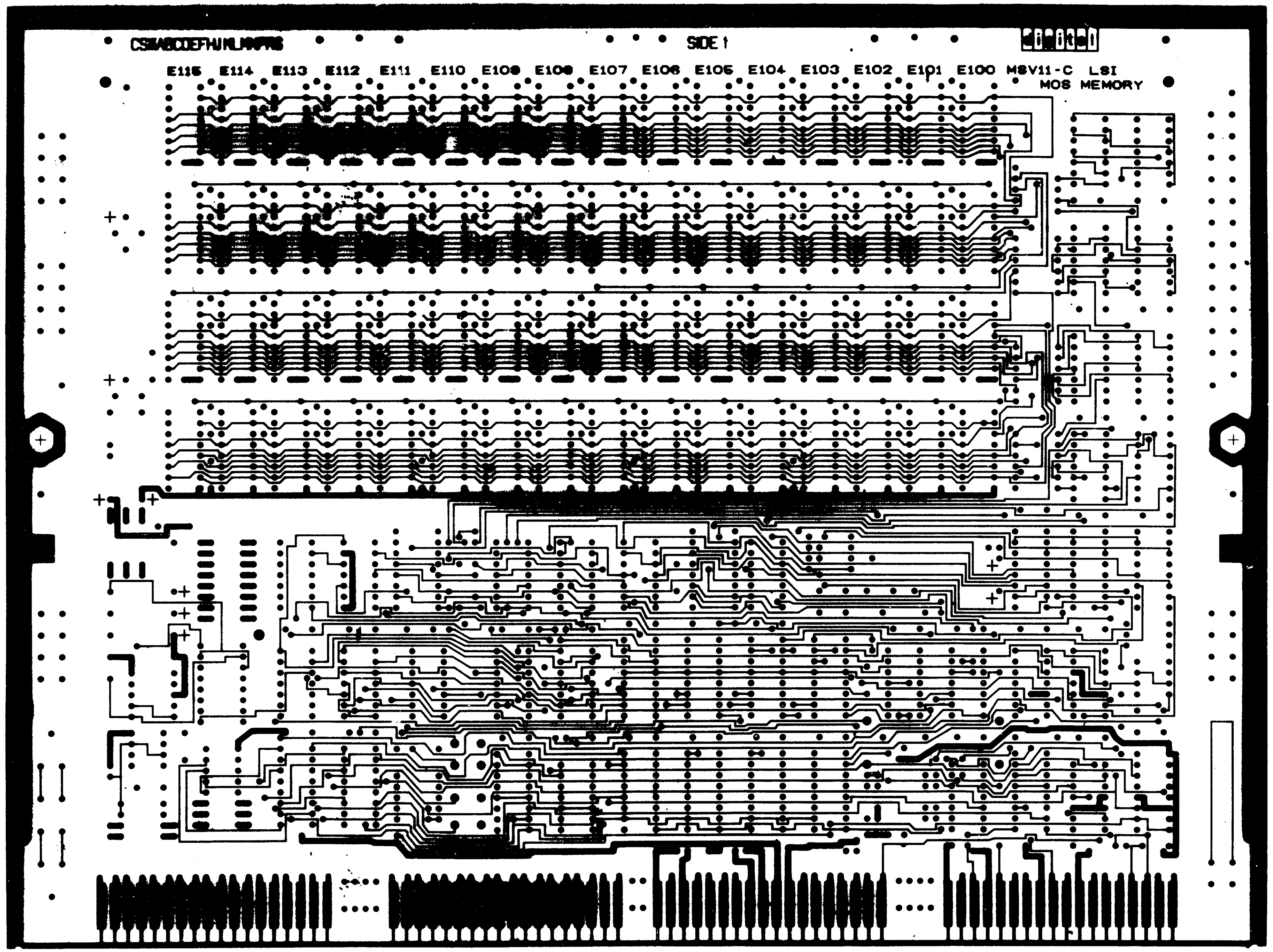
SIZE	CODE	NUMBER	REV
D	UA	M7955-0-0	B

MS# B1032

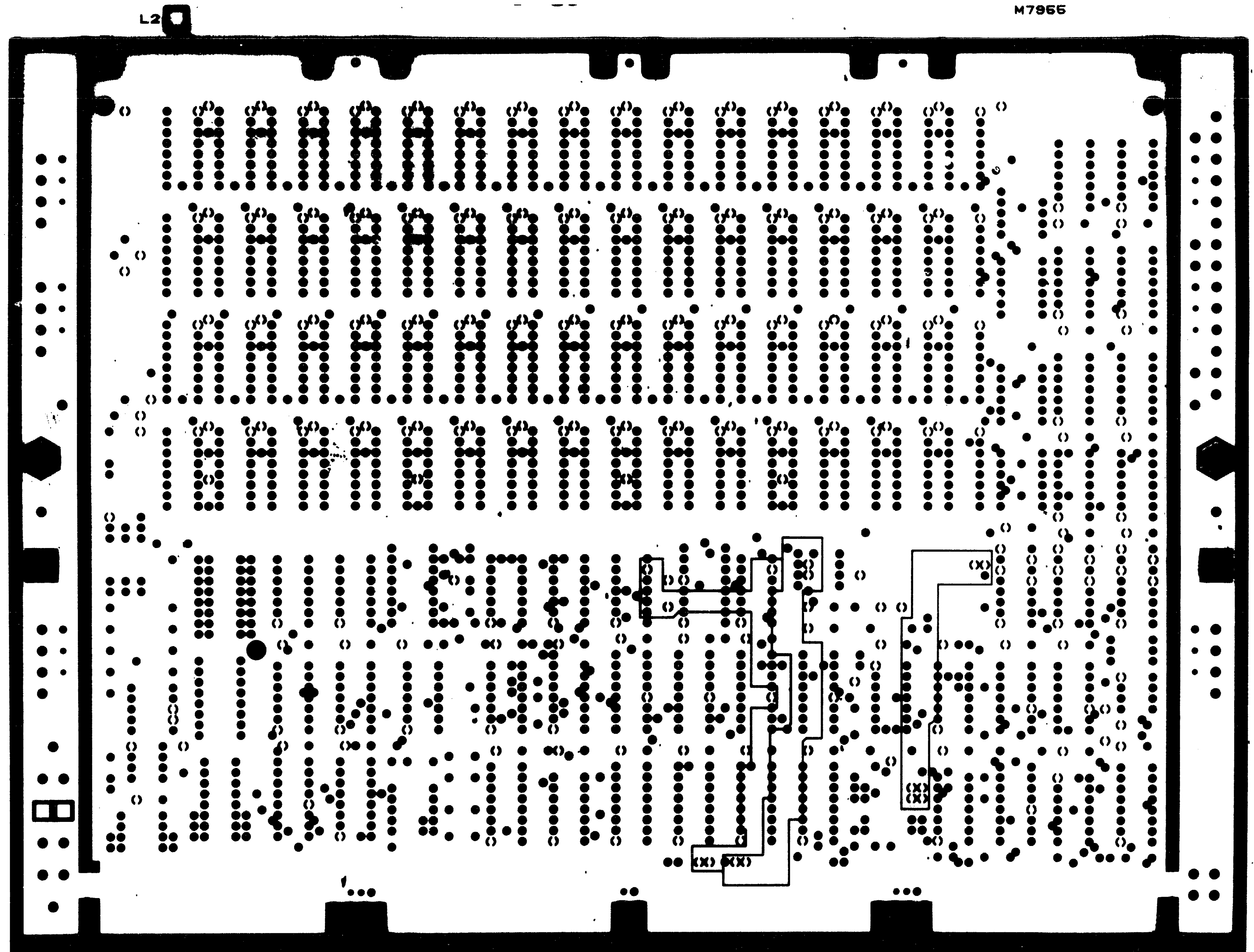
L1

LAYER 1

5012203C
M881032
M7955

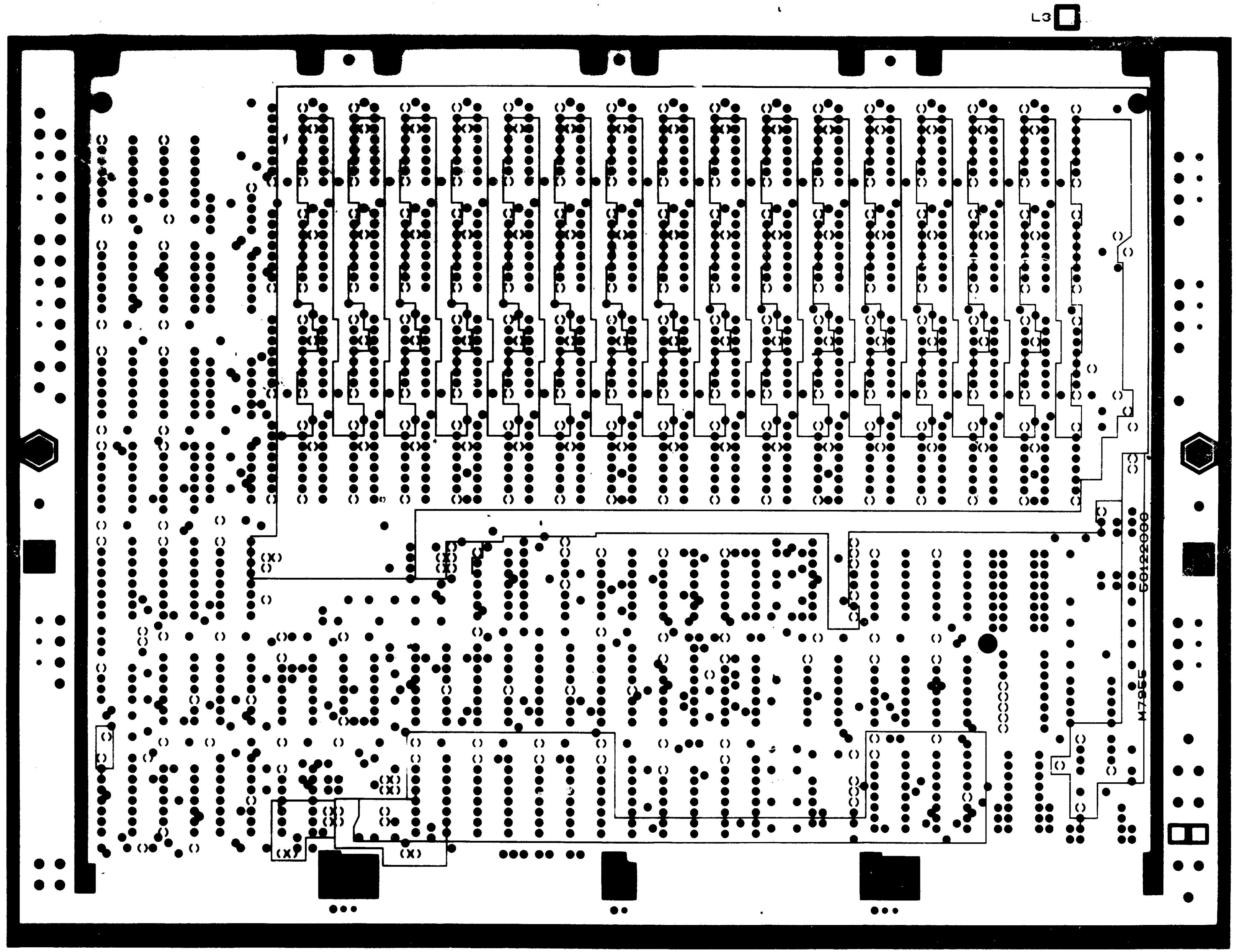


TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D	UA	M7955-0-0	B
SCALE 2/1 SHEET 5 OF 9	DIST.			

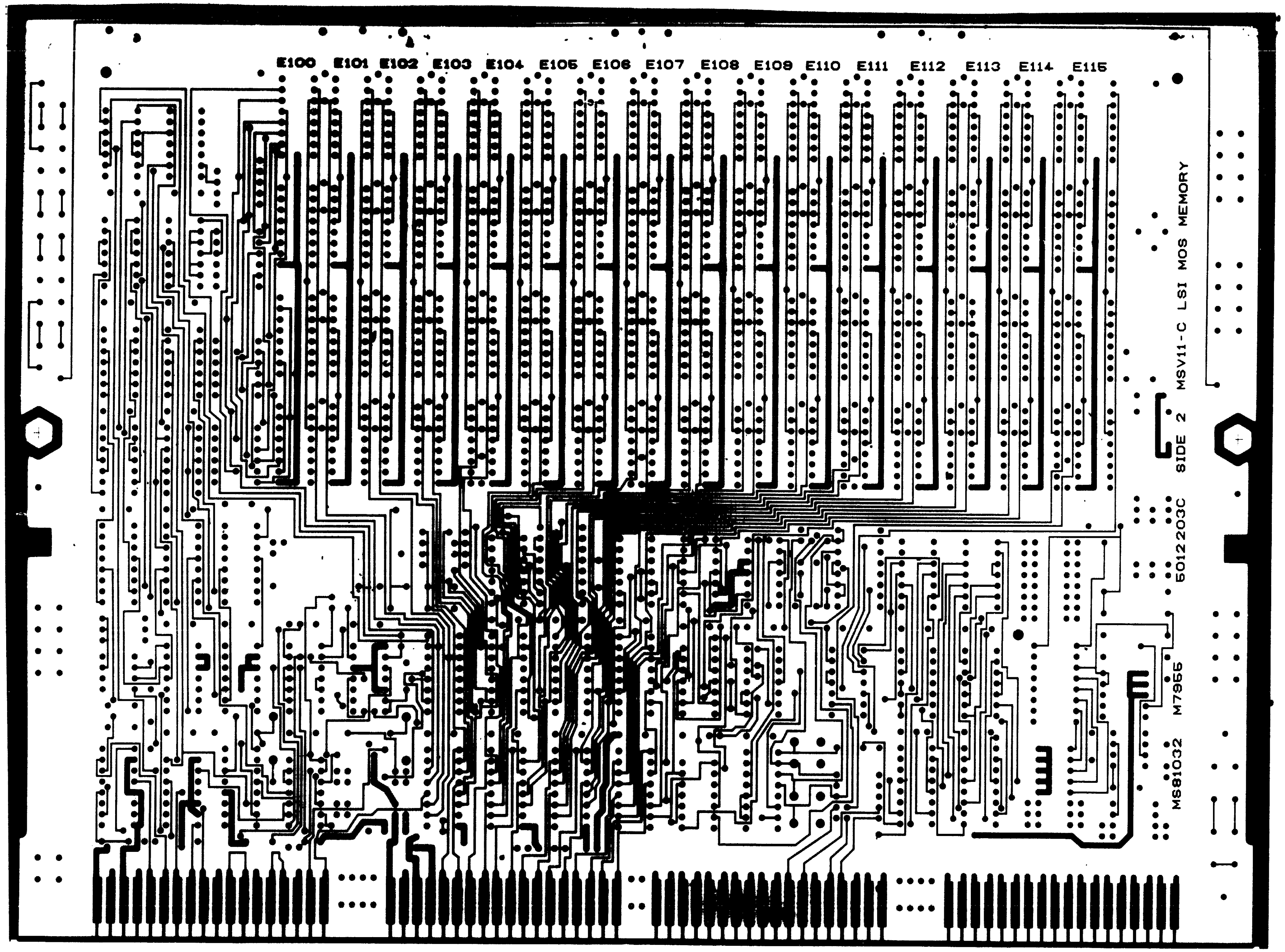


REVISIONS		
	CHANGE NO	REV

TITLE	MSV11-C LSI MOS MEMORY
SIZE	D
CODE	UA
NUMBER	M7955-0-0
REV.	B
SCALE	2/1
SHEET	6 OF 9
DIST.	

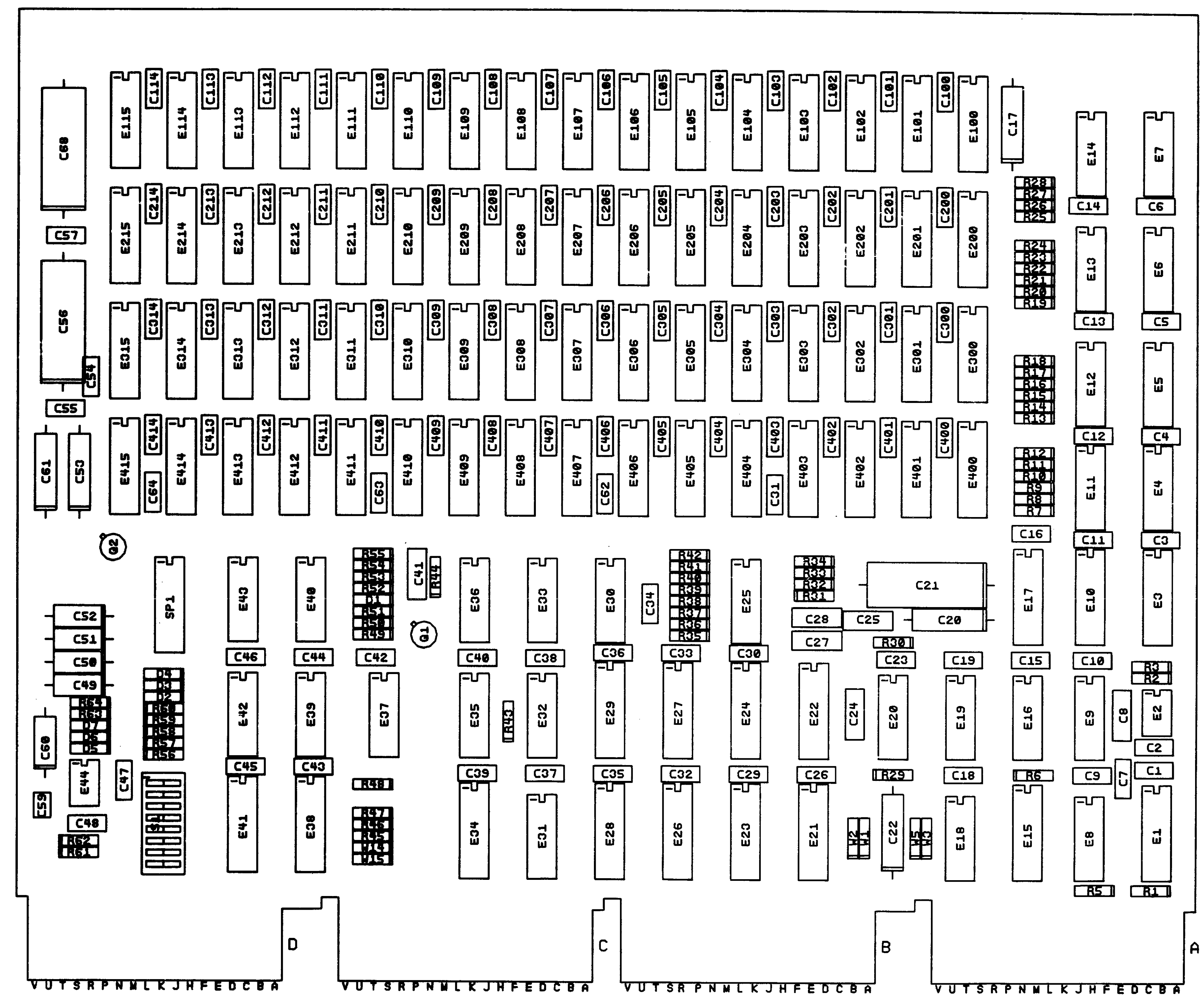


TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D	UA	M7955-0-0	B
SCALE 2/1	SHEET 7 OF 9	DIST.		



REVISIONS		
CHK	CHANGE NO	REV

TITLE	MSV11-C LSI MOS MEMORY		
SIZE D	CODE UA	NUMBER M7955-0-0	REV. B
SCALE 2/1	SHEET 8 OF 9	DIST.	



NOTES: 1 REFERENCE DOCUMENT

CHK	CHANGE NO	REV

SIGNATURES	DATE
DRN. T. Bozeman	19 NOV 76
CHK'D. T. Bozeman	19 Nov 76
ENG. J. Stiegen	19 Nov 76
PROJ. ENG. J. Stiegen	19 Nov 76
PROD. R. Martel	19 Nov 76
SCALE 2/1	
SHT. 9 OF 9	
NEXT HIGHER ASSY. B-DD-M7955-0	

digital

TITLE MSV11-C LSI MOS MEMORY

SIZE	CODE	NUMBER	REV
D	UA	M7955-0-0	B

1 MS# 81032

DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY S. BELTEER | DATE 10 OCT 76 | ENG J. Stegun | DATE 11/18/76
CHECKED J. R. Staley | DATE 11/18 | PROD R. Mantel | DATE 11/19/76
SECTION 1 | ISSUED SECTION 1

NOTES:

*M7955-AA = M7955-YA, or M7955-YE
*M7955-AB = M7955-YB, or M7955-YF
*M7955-AC = M7955-YC, or M7955-YH
*M7955-AD = M7955-YD, or M7965-YJ

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	*M7955-AA		*M7955-AB		*M7955-AC		*M7955AD		REF DESIGNATION
				M7955-YA	M7955-YE	M7955-YB	M7955-YF	M7955-YC	M7955-YH	M7955-YD	M7955-YJ	
	D-UA-M7955-0-0		UNIT ASSY	REF	REF	REF	REF	REF	REF	REF	REF	
	D-CS-M7955-0-1		CIRCUIT SCHEMATIC	REF	REF	REF	REF	REF	REF	REF	REF	
	B-MH-M7955-0-6		MODULE HISTORY	REF	REF	REF	REF	REF	REF	REF	REF	
1	D-MD-5012203-0-0	5012203	ETCHED CIRCUIT BOARD	1	1	1	1	1	1	1	1	
2		10-00016	CAP 100 PF 100V 5% DM	2	2	2	2	2	2	2	2	C25,C41
3		10-01610-01	CAP .01MF 100V DISC	28	28	28	28	28	28	28	28	C2 Thru C7,C9 Thru C16, C18,C19,C23, C30,C33,C36 Thru C40,C42,C44,C46,C48
4		10-02627	CAP 2.2MF 20V 10% TANT	5	5	5	5	5	5	5	5	C49,C50,C51,C52,C60
5		10-10274	CAP .22MF 50V CER	.	.	.	.	.	.	76	76	C26,C29,C31,C32,C34,C35,C43,C45,C47,C54, C55,C57,C62 Thru C64,C100 Thru C114, C200 Thru C214,C300 Thru C314,C400 Thru C414,C1
				.	.	.	.	61	61	.	.	C26,C29,C31,C32,C34,C35,C43,C45,C47,C54, C55,C57,C62 Thru C64,C200 Thru C214, C300 Thru C314,C400 Thru C414,C1
				46	46	46	46	.	.	.	.	C26,C29,C31,C32,C34,C35,C43,C45,C47, C54,C55,C57,C62 Thru C64,C300 Thru C314, C400 Thru C414,C1
6		10-11740	CAP 5600PF 50V, 10% CER	1	1	1	1	1	1	1	1	C59
7		10-12084-01	CAP 8MF 25V AL.EL.	5	5	5	5	5	5	5	5	C17,C20,C22,C53,C61
8		10-12121	CAP 220PF 100V 1% DM	4	4	4	4	4	4	4	4	C8,C24,C27,C28
9		10-12219	CAP 47MF 30V AL.EL.	3	3	3	3	3	3	3	3	C21, C56,C68

E.C.O. NO.

TITLE: MSV11-C LSI MOS MEMORY

ASSY NO. D-UA-M7955-0-0

SHEET 1 OF 5

SIZE B | CODE PL | NUMBER M7955-0-0 | REV. B

INSERTION PARTS LIST DATA BASE REV B

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY	S. BELTZER	CHECKED	[illegible]	SECTION	1
DATE	10 OCT 76	DATE	[illegible]	ISSUED SECTION	1
ENG	J. [illegible]	PROD	R. Martel		
DATE	11/18/76	DATE	11/19/76		

NOTES:

*M7955-AA = M7955-YA, or M7955-YE
*M7955-AB = M7955-YB, or M7955-YF
*M7955-AC = M7955-YC, or M7955-YH
*M7955-AD,= M7955-YC, or M7955-YJ

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	*M7955-AA M7955-YA	M7955-YE		*M7955-AB M7955-YB	M7955-YF		*M7955-AC M7955-YC	M7955-YH		*M7955-AD M7955-YD	M7955-YJ		REF DESIGNATION
10		11-05275	DIODE D672	6	6		6	6		6	6		6	6		D1,D2,D3,D4,D5,D6
11		11-10994	DIODE 1N751A 5.1V 5% ZENER	1	1		1	1		1	1		1	1		D7
12		12-11164-04	SWITCH 8 SPST DIP SWITCH	1	1		1	1		1	1		1	1		S1
13		13-00247	RES. 120, ¼W 5% CC	2	2		2	2		2	2		2	2		R63,R64
14		13-00295	RES. 330, ¼W 5% CC	1	1		1	1		1	1		1	1		R51
15		13-00365	RES. 1K, ¼W 5% CC	5	5		5	5		5	5		5	5		R37, R42,R43,R49,R50
16		13-00447	RES. 4.7K ¼W 5% CC	11	11		11	11		11	11		11	11		R6,R29,R45,Thru R48, R56 Thru R60
17		13-00479	RES. 10K, ¼W 5% CC	2	2		2	2		2	2		2	2		R1,R5
18		13-00271	RES. 220, ¼W 5% CC	1	1		1	1		1	1		1	1		R52
19		13-02124	RES. 18, ¼W 5% CC	26	26		26	26		26	26		26	26		R7,Thru R28,R30,R31,R44,R53
20		13-02644	RES. 226, ¼W 1% MF	1	1		1	1		1	1		1	1		R39
21		13-02871	RES. 1.21K, ¼W 1% MF	2	2		2	2		2	2		2	2		R32,R61
22		13-02941	RES. 14.7K ¼W 1% MF	2	2		2	2		2	2		2	2		R33,R54
23		13-02956	RES. 196, ¼W 1% MF	1	1		1	1		1	1		1	1		R41
24		13-02957	RES. 121, ¼W 1% MF	1	1		1	1		1	1		1	1		R35
25		13-03044	RES. 100K, ¼W 1% MF	1	1		1	1		1	1		1	1		R3
26		13-03064	RES. 75.0 ¼W 1% MF	1	1		1	1		1	1		1	1		R40
27		13-03148	RES. 31.6 ¼W 1% MF	1	1		1	1		1	1		1	1		R36

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D-UA-M7955-0-0	B	PL	M7955-0-0	B
	SHEET 2 OF 5	INSERTION PARTS LIST DATA BASE REV B			

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY S. Bertcer	CHECKED J. R. Staley	SECTION 1	
DATE 10 Oct 76	DATE 11/18/76		
ENG J. Stern	PROD R. Martel	ISSUED SECTION 1	
DATE 11/18/76	DATE 11/19/76		

NOTES:
*M7955-AA = M7955-YA, or M7955-YE
*M7955-AB = M7955-YB, or M7955-YF
*M7955-AC = M7955-YC, or M7955-YH
*M7955-AD = M7955-YD, or M7955-YJ

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	*M7955-AA: M7955-YA	M7955-YE		*M7955-AB: M7955-YB	M7955-YF		*M7955-AC: M7955-YC	M7955-YH		*M7955-AD: M7955-YD	M7955-YJ		REF DESIGNATION
28		13-03303	RES. 2.61K, ¼W 1% MF	2	2		2	2		2	2		2	2		R55,R62
29		13-03313	RES. 12.1K, ¼W 1% MF	1	1		1	1		1	1		1	1		R2
30		13-04863	RES. 316, ¼W 1% MF	1	1		1	1		1	1		1	1		R38
31		13-04870	RES. 6.81K, ¼W 1% MF	1	1		1	1		1	1		1	1		R34
32																
33		15-03100	TRANSISTOR DEC 3009B NPN	1	1		1	1		1	1		1	1		Q1
34		15-03409-01	TRANSISTOR DEC 6534B PNP	1	1		1	1		1	1		1	1		Q2
35		19-09054	IC 7493	2	2		2	2		2	2		2	2		E9,E16
36		19-09932-01	IC 7483A	1	1		1	1		1	1		1	1		E41
37		19-10268	IC 75107	2	2		2	2		2	2		2	2		E25,E30
38		19-10532	IC 74S00	5	5		5	5		5	5		5	5		E4,E7,E18,E35,E42
39		19-10533	IC 74S03	1	1		1	1		1	1		1	1		E33
40		19-10536	IC 74S10	2	2		2	2		2	2		2	2		E19,E37
41		19-10539	IC 74S20	1	1		1	1		1	1		1	1		E31
42		19-10546	IC 74S140	1	1		1	1		1	1		1	1		E14
43		19-10547	IC 74S153	3	3		3	3		3	3		3	3		E3,E10,E17
44		19-10544	IC 74S74	3	3		3	3		3	3		3	3		E32,E36,E40
45		19-11469	IC 8640	2	2		2	2		2	2		2	2		E8,E20

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
MSVII-C LSI MOS MEMORY	D-UA-M7955-Ø-Ø	B	PL	M7955-0-0	B
	SHEET 3 OF 5	INSERTION PARTS LIST DATA BASE REV B			

EN-01140A-16-R276(325) DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY S. BELTEER	CHECKED J.R. Doty	SECTION 1
DATE 10 OCT 76	DATE 11/10/76	
ENG J. Stegmann	PROD R. Martel	ISSUED SECTION 1
DATE 11/18/76	DATE 11/10/76	

NOTES:
*M7955-AA = M7955-YA, or M7955-YE
*M7955-AB = M7955-YB, or M7955-YF
*M7955-AC = M7955-YC, or M7955-YH
*M7955-AD = M7955-YD, or M7955-YJ

ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	*M7955-AA M7955-YA	*M7955-AA M7955-YE	*M7955-AB M7955-YB	*M7955-AB M7955-YF	*M7955-AC M7955-YC	*M7955-AC M7955-YH	*M7955-AD M7955-YD	*M7955-AD M7955-YJ	REF DESIGNATION
46		19-11579	IC 8641	5	5	5	5	5	5	5	5	E1,E21,E23,E26,E28
47		19-11675	IC 74S138	1	1	1	1	1	1	1	1	E38
48		19-11944	IC LM555	2	2	2	2	2	2	2	2	E2,E44
49		19-11983	IC 74S133	1	1	1	1	1	1	1	1	E34
50		19-12068	IC 74128	3	3	3	3	3	3	3	3	E5,E12,E13
51		19-12388	IC 74S02	2	2	2	2	2	2	2	2	E39,E43
52		19-12649	IC 74LS75	5	5	5	5	5	5	5	5	E15,E22,E24,E27,E29
53		19-12746	IC 74S37	2	2	2	2	2	2	2	2	E6,E11
54		21-12726-00	IC MK4096 16 PIN RAM	.	.	.	.	.	.	64	.	E100,thru E115,E200 thru 215,E300 thru E315,E400 thru E415
				.	.	.	.	48	.	.	.	E200 thru E215, E300 thru E315,E400 thru E415
				.	.	32	.	.	.	.	.	E300 thru E315,E400 thru E415
				16	.	.	.	.	.	.	.	E400 thru E415
55		21-12959-01	IC 4096 16 PIN RAM	.	.	.	.	.	.	.	64	SAME AS M7955-YD
				.	.	.	.	.	48	.	.	SAME AS M7955-YC
				.	.	.	32	.	.	.	.	SAME AS M7955-YB
				.	16	.	.	.	.	.	.	SAME AS M7955-YA

E.C.O. NO.

TITLE MSV11-C LSI MOS MEMORY

ASSY NO. D-UA-M7955-Ø-Ø

SHEET 4 OF 5

SIZE B | CODE PL | NUMBER M7955-0-0 | REV. B

INSERTION PARTS LIST DATA BASE REV B

EN-01140A-16-R276(325) DRB 125

DIGITAL EQUIPMENT CORPORATION
PARTS LIST

MADE BY S. BELTZER	CHECKED Jon R. Stanley	SECTION 1	
DATE 10 OCT 76	DATE 11/18/76		
ENG J. Stayman	PROD R. Montel	ISSUED SECTION 1	
DATE 11/18/76	DATE 11/19/76		

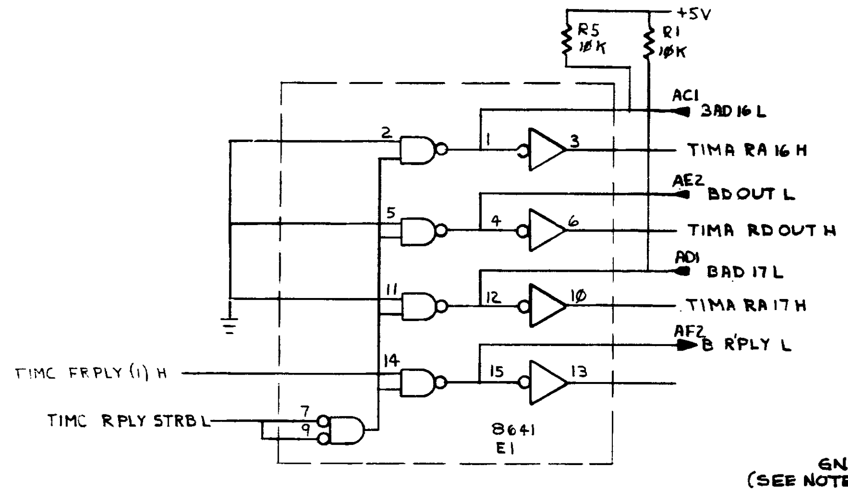
NOTES:

*M7955-AA = M7955-YA, or M7955-YE
*M7955-AB = M7955-YB, or M7955-YF
*M7955-AC = M7955-YC, or M7955-YH
*M7955-AD = M7955-YD, or M7955-YJ

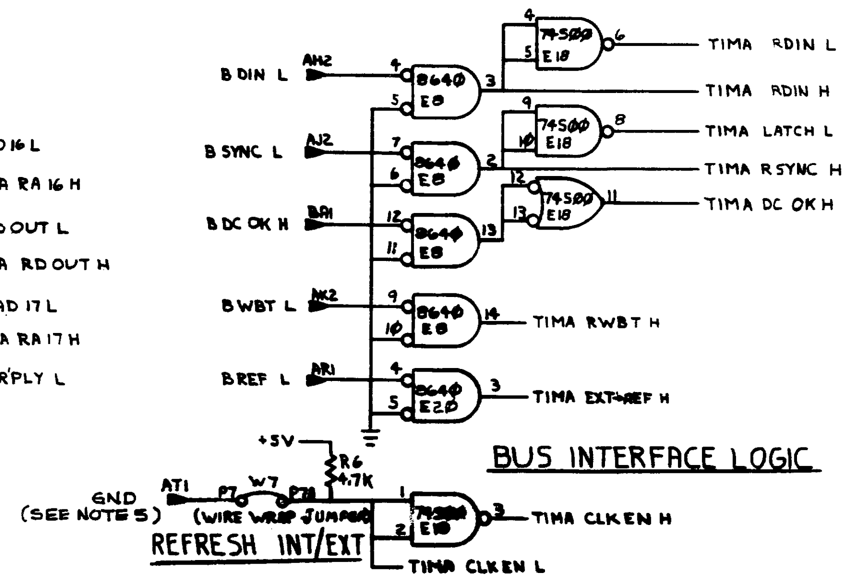
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	*M7955-AA: M7955-YA	*M7955-AA: M7955-YE	*M7955-AB: M7955-YB	*M7955-AB: M7955-YF	*M7955-AC: M7955-YC	*M7955-AC: M7955-YH	*M7955-AD: M7955-YD	*M7955-AD: M7955-YJ	REF DESIGNATION
56		90-06732-00	EYELET, HANDLE	8	8	8	8	8	8	9	8	
57		90-08213-00	STANDOFF SPACER	1	1	1	1	1	1	1	1	
			SCREW NYLON 6-32 x .250	1	1	1	1	1	1	1	1	
58		90-09041-01	~~SCREW NYLON 6-32 x .250~~	1	1	1	1	1	1	1	1	
59		90-09185-00	JUMPER INSULATED	6	6	6	6	6	6	6	6	W1,W3,W5,W14,W15,W2
60		90-09149-00	WIRE WRAP PINS	12	12	12	12	12	12	12	12	
61		91-05740-55	WIRE, GRN, INSULATED #30 AWG (LENGTH AS REQUIRED, WITH 3/4" ± 1/8" OF INSULATION.)	3	3	.	.	.	.	.	.	W6,W7,W4
				.	.	4	4	.	.	.	.	W6,W7,W4,W8
				.	.	.	.	5	5	.	.	W6,W7,W4,W12,W8
				.	.	.	.	.	.	6	6	W6,W7,W4,W8,W12,W16
62		74-13826-01	HANDLE R.H.	1	1	1	1	1	1	1	1	
63		74-13826-00	HANDLE L.H.	1	1	1	1	1	1	1	1	

E.C.O. NO.

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D-UA-M7955-0-0	B	PL	M7955-0-0	B
	SHEET 5 OF 5	INSERTION PARTS LIST DATA BASE REV B			

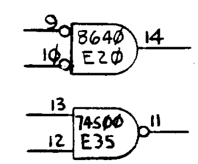


BUS INTERFACE LOGIC

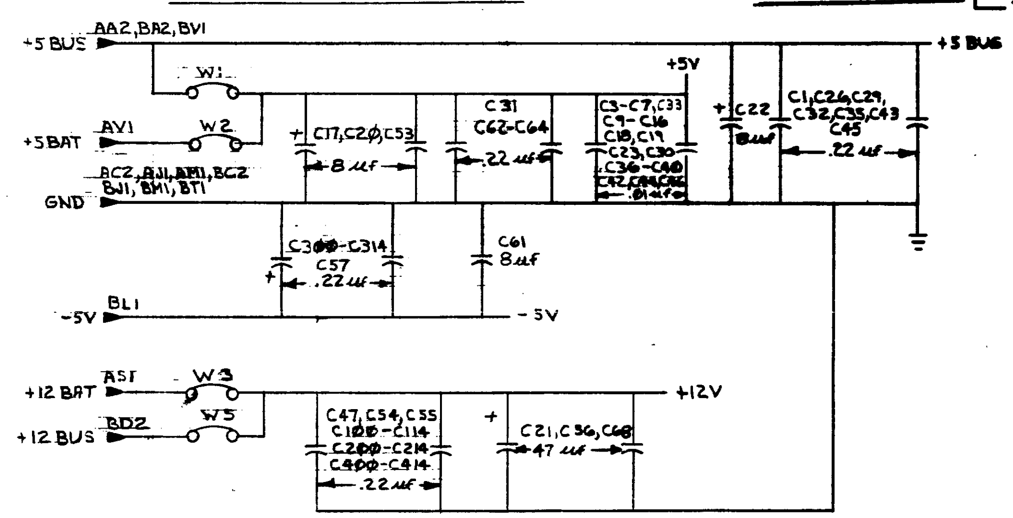


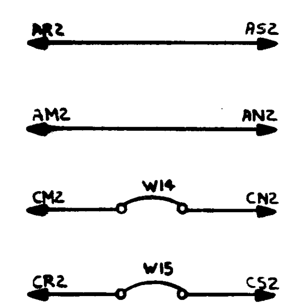
REFRESH INT/EXT

BUS INTERFACE LOGIC



SPARES





BUS GRANT CONTINUITY JUMPERS

STARTING ADDRESS SELECTION

1=ON
Ø=OFF

STARTING ADDRESS	SWITCH S1 SETTINGS -1	-2	-3	-4	-5	
Ø	1	1	1	1	1	
4K	Ø	1	1	1	1	
8K	1	Ø	1	1	1	
12K	Ø	Ø	1	1	1	
16K	1	1	Ø	1	1	
2ØK	Ø	1	Ø	1	1	
24K	1	Ø	Ø	1	1	
28K	Ø	Ø	Ø	1	1	
32K	1	1	1	Ø	1	
36K	Ø	1	1	Ø	1	
4ØK	1	Ø	1	Ø	1	
44K	Ø	Ø	1	Ø	1	
48K	1	1	Ø	Ø	1	
52K	Ø	1	Ø	Ø	1	
56K	1	Ø	Ø	Ø	1	
6ØK	Ø	Ø	Ø	Ø	1	
64K	1	1	1	1	Ø	
68K	Ø	1	1	1	Ø	
72K	1	Ø	1	1	Ø	
76K	Ø	Ø	1	1	Ø	
8ØK	1	1	Ø	1	Ø	
84K	Ø	1	Ø	1	Ø	
88K	1	Ø	Ø	1	Ø	
92K	Ø	Ø	Ø	1	Ø	
96K	1	1	1	Ø	Ø	
1ØØK	Ø	1	1	Ø	Ø	
1Ø4K	1	Ø	1	Ø	Ø	
1Ø8K	Ø	Ø	1	Ø	Ø	
112K	1	1	Ø	Ø	Ø	
116K	Ø	1	Ø	Ø	Ø	EXCEPT M7955-AD
12ØK	1	Ø	Ø	Ø	Ø	EXCEPT M7955-AC & AD
124K	Ø	Ø	Ø	Ø	Ø	EXCEPT M7955-AB,AC, & AD
OVER LAPPING IS NOT ALLOWED IN ANY PERIPHERAL PAGE						

W6	W7	REFRESH OPTIONS
IN	IN	INTERNAL REFRESH WITH NO B RPLY
IN	OUT	EXTERNAL REFRESH WITH NO B RPLY
OUT	IN	ILLEGAL
OUT	OUT	EXTERNAL REFRESH WITH B RPLY

REFRESH SELECTION

M7955 VARIATIONS

JUMPERS	-AA	-AB	-AC	-AD
W4	1	1	1	1
W8	Ø	1	1	1
W12	Ø	Ø	1	1
W16	Ø	Ø	Ø	1
ALL JUMPERS NOTED AS Ø MUST NOT BE INSTALLED				

I.C. PIN LOCATIONS

I.C. TYPE	GND	+5	+12
555 @ E2	1	8	
555 @ E44	1		8
7493	10	5	
7483A	12	5	
74LS75	12	5	
8640	1	8	
OTHER 16 PIN I.C.'S	8	16	
OTHER 14 PIN I.C.'S	7	14	

NOTES:

1. OPTION DESIGNATION:
   M7955-AA = M7955-YA OR M7955-YE
   M7955-AB = M7955-YB OR M7955-YF
   M7955-AC = M7955-YC OR M7955-YH
   M7955-AD = M7955-YD OR M7955-YJ
2. ALL 8641 BUS REC/DR PLUS 7483A ADDER AND 74S138 DECODER ARE POWERED BY +5 BUS. ALL OTHER CIRCUITS GO TO +5V AS SELECTED BY W1 & W2.
3. W1, W2, W3, W5, W14, W15 ARE MACHINE INSERTABLE JUMPERS. W4, W6, W7, W8, W12, W16 ARE WIRE WRAP JUMPERS.
4. ALL BDAL-XX CONNECTIONS ARE BI-DIRECTIONAL LINES
5. DURING MANUFACTURING TEST, GROUND MAY BE REMOVED

NOT USED REF DES

C100-C114, C200-C214, W8, W12, W16
C100-C114, C200-C214, W12, W16
C100-C114, W16

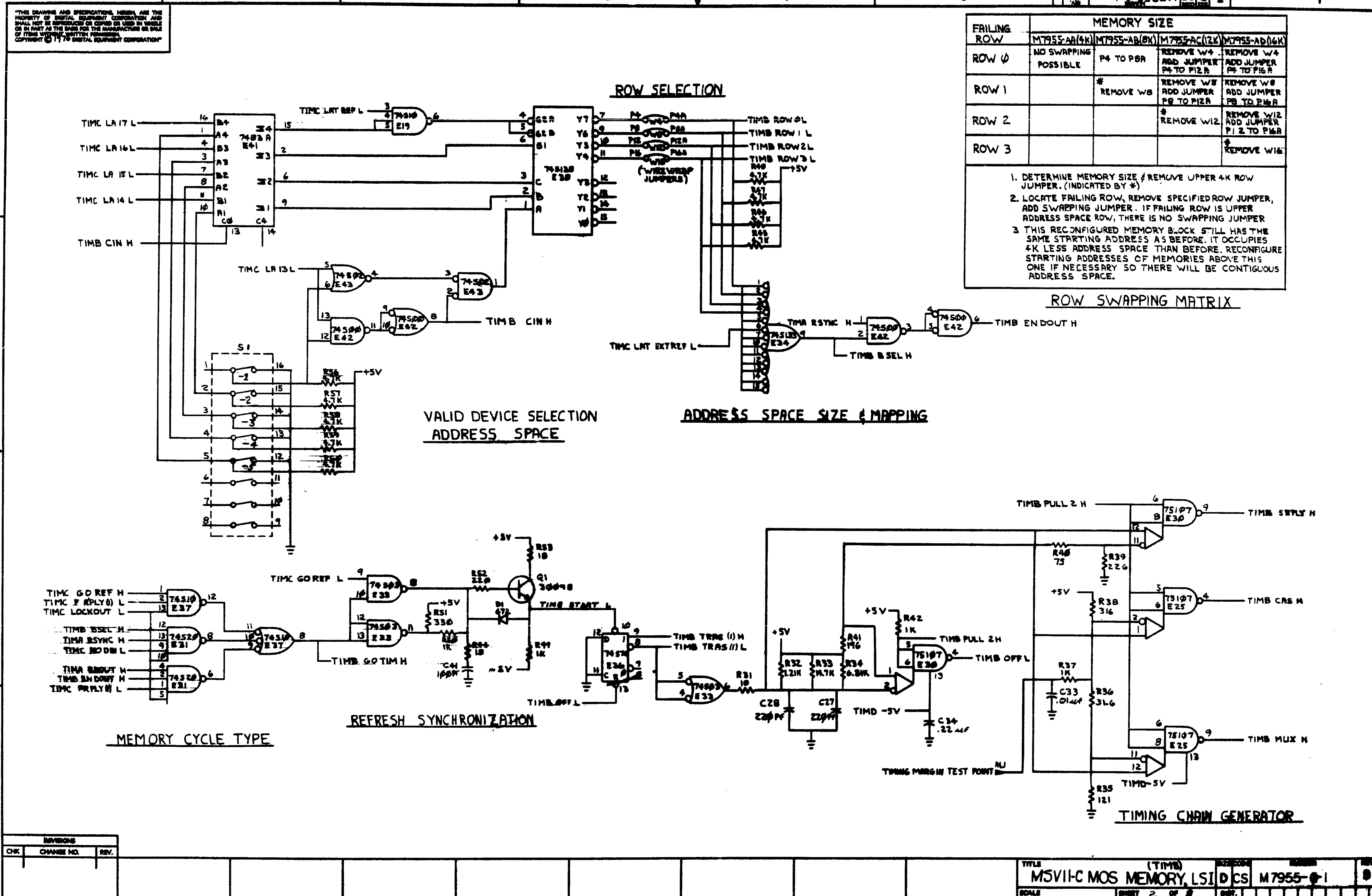
DRN.		8-12-76
CHK'D		
ENG.		
PROD. ENG.		
PROD.		
NEXT HIGHER ASSY.	B-DD-M7955-0-0	
SCALE	—	
SHEET 1 OF 9		

FIRST USED ON M5V11-C

digital

TITLE M5V11-C MOS MEMORY, LSI (TIMA)

SIZE D CODE CS NUMBER M7955-0-1 REV. B

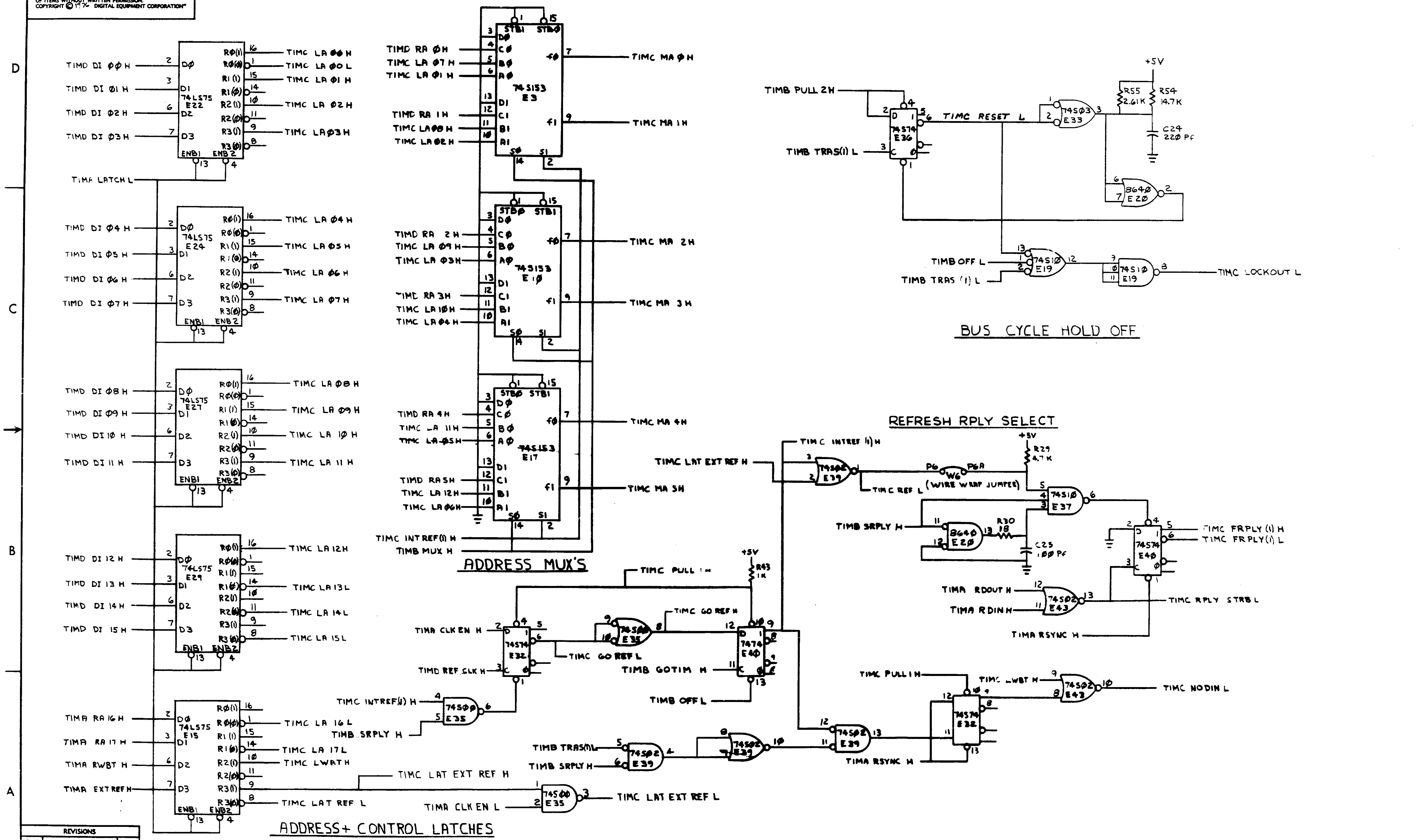


FAILING ROW	MEMORY SIZE			
	M7955-AA(4K)	M7955-AB(8K)	M7955-AC(12K)	M7955-AD(16K)
ROW Ø	NO SWAPPING POSSIBLE	P4 TO P8A	REMOVE W4 ADD JUMPER P4 TO P12A	REMOVE W4 ADD JUMPER P4 TO P16A
ROW 1		* REMOVE W8	REMOVE W8 ADD JUMPER P8 TO P12A	REMOVE W8 ADD JUMPER P8 TO P16A
ROW 2			* REMOVE W12	REMOVE W12 ADD JUMPER P12 TO P16A
ROW 3				* REMOVE W16

1. DETERMINE MEMORY SIZE & REMOVE UPPER 4K ROW JUMPER. (INDICATED BY *)
2. LOCATE FAILING ROW, REMOVE SPECIFIED ROW JUMPER, ADD SWAPPING JUMPER. IF FAILING ROW IS UPPER ADDRESS SPACE ROW, THERE IS NO SWAPPING JUMPER
3. THIS RECONFIGURED MEMORY BLOCK STILL HAS THE SAME STARTING ADDRESS AS BEFORE. IT OCCUPIES 4K LESS ADDRESS SPACE THAN BEFORE. RECONFIGURE STARTING ADDRESSES OF MEMORIES ABOVE THIS ONE IF NECESSARY SO THERE WILL BE CONTIGUOUS ADDRESS SPACE.

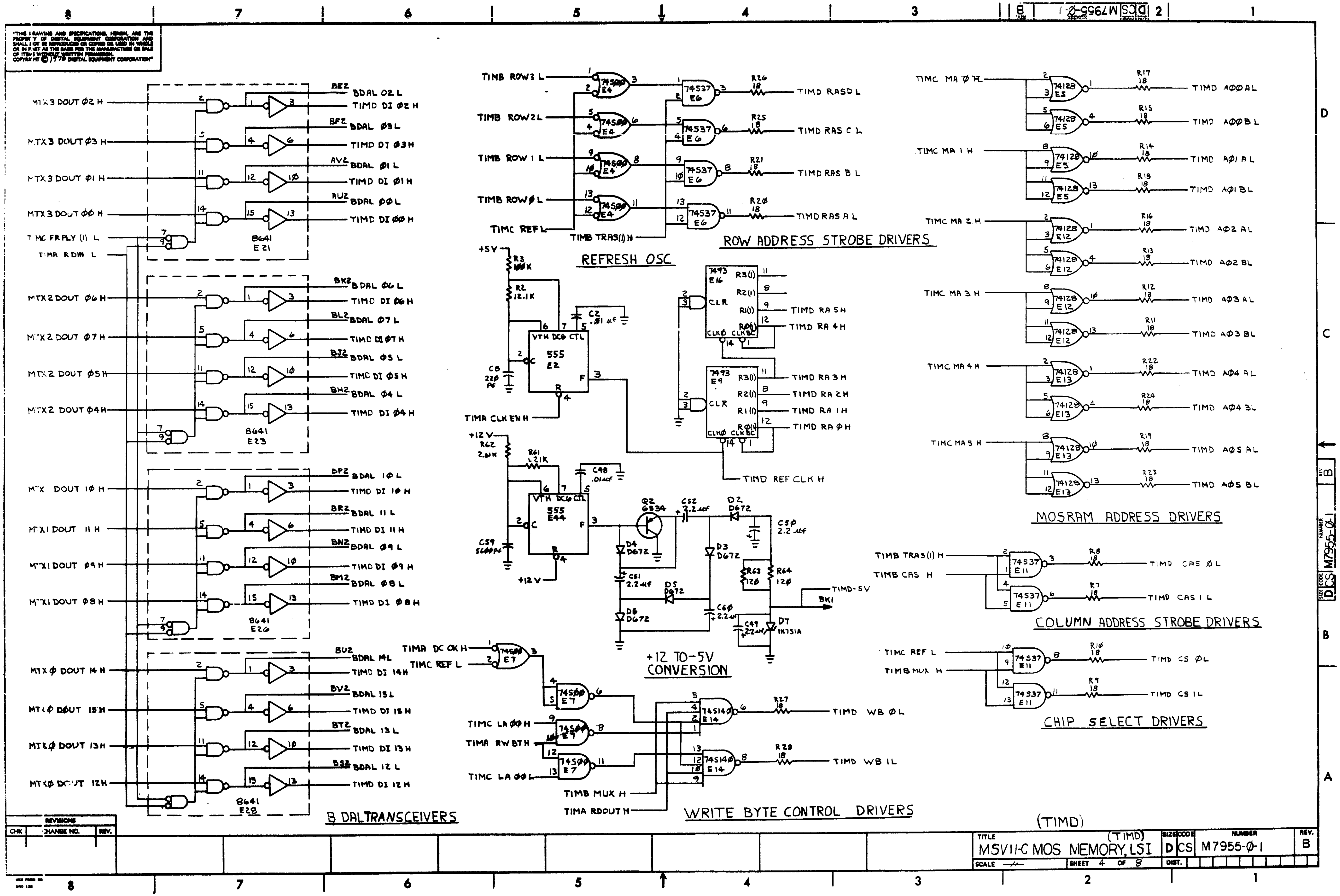
ROW SWAPPING MATRIX

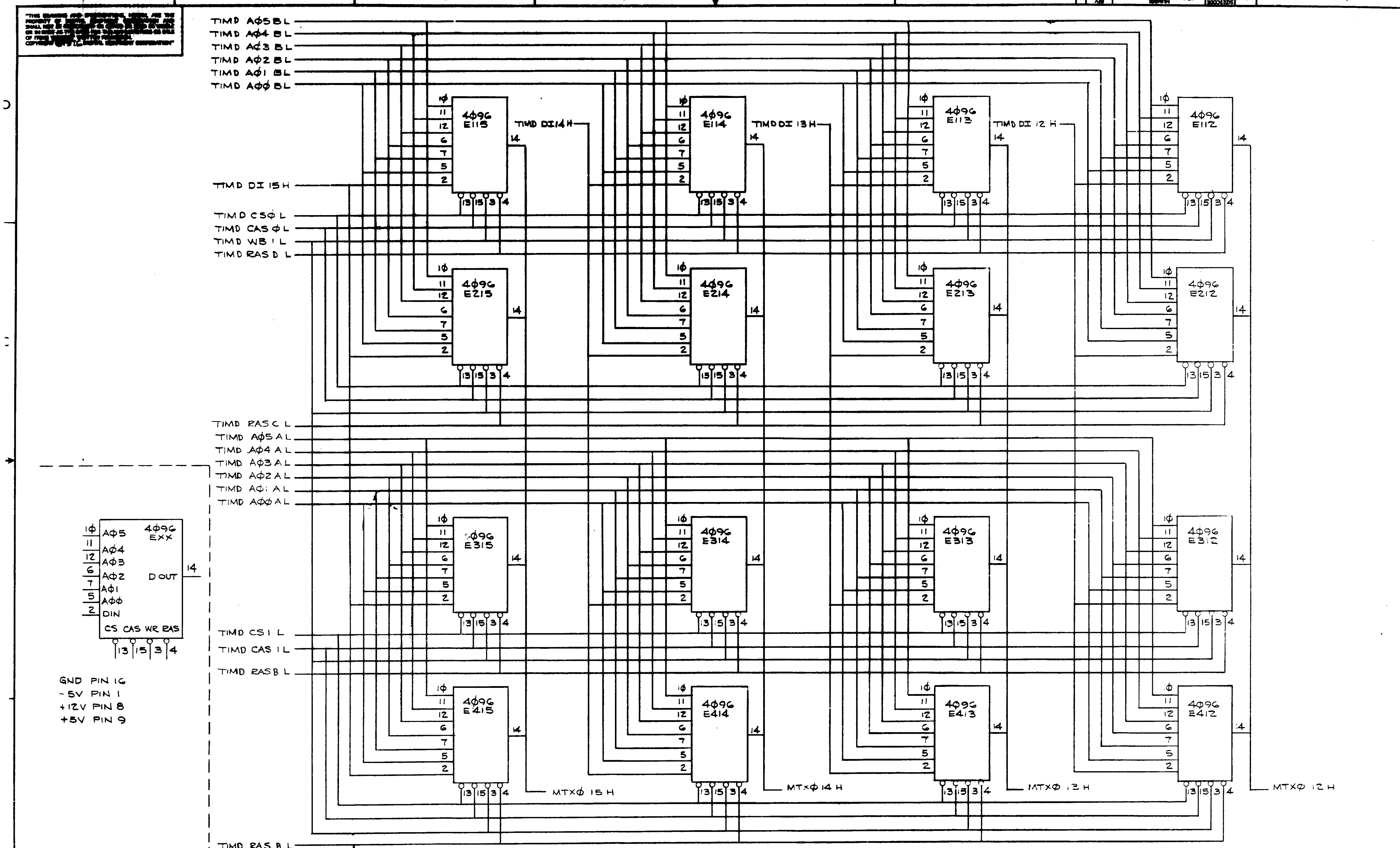
TITLE: MSV11-C MOS MEMORY, LSI (TIMB) — D CS M7955-0-1 — REV. B — SHEET 2 OF 8



TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C MOS MEMORY, LSI (TIMC)	D	CS	M7955-0-1	B

SHEET 3 OF 8

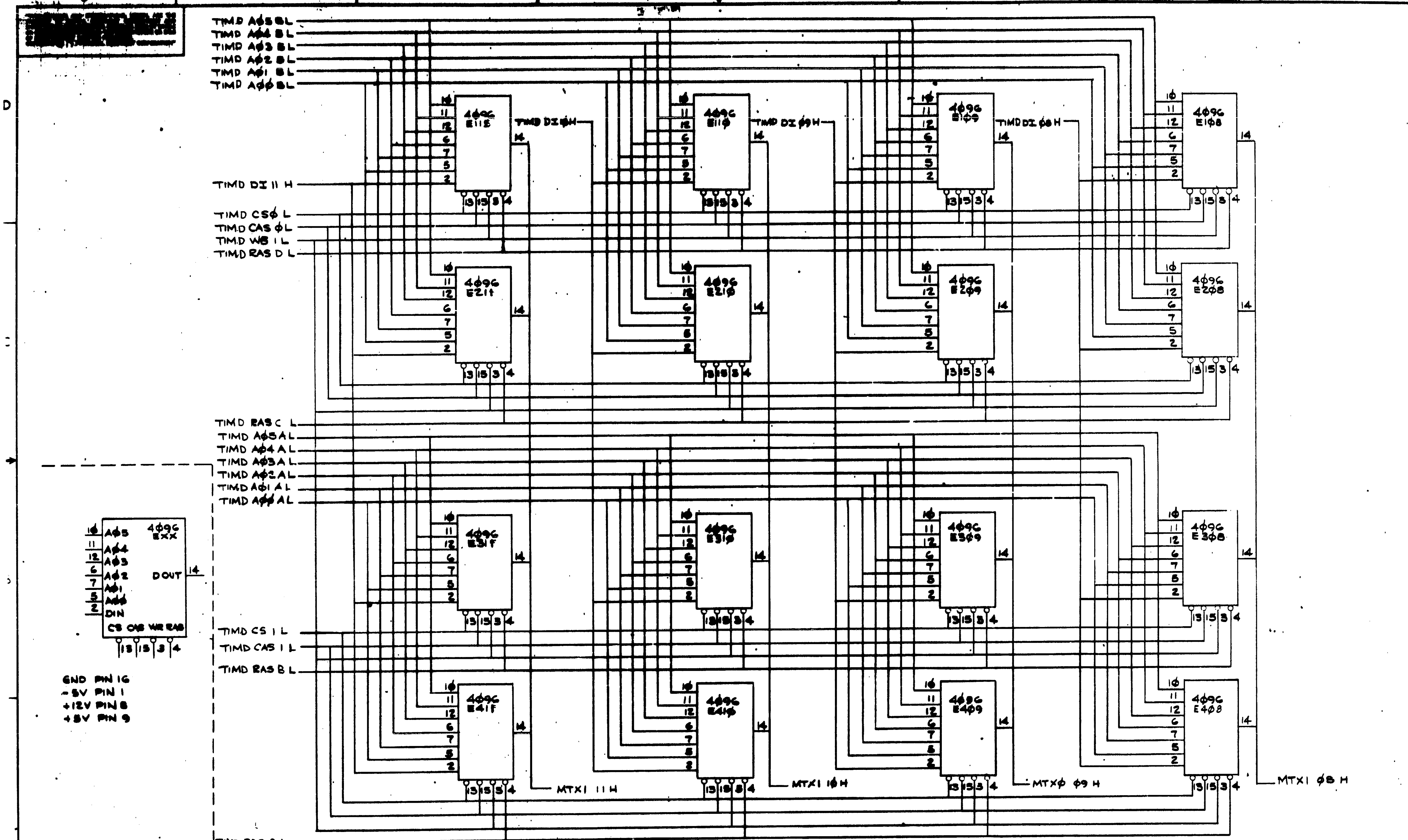

B DAL TRANSCEIVERS
REFRESH OSC
ROW ADDRESS STROBE DRIVERS
MOSRAM ADDRESS DRIVERS
+12 TO -5V CONVERSION
COLUMN ADDRESS STROBE DRIVERS
CHIP SELECT DRIVERS
WRITE BYTE CONTROL DRIVERS
(TIMD)
MSV11-C MOS MEMORY, LSI
D CS M7955-Ø-1 B
SHEET 4 OF 8



(ARRAY) DATA BITS (5-12) MTXØ

TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C MOS MEMORY, LSI	D	CS	M7955-Ø-1	B

SHEET 5 OF 8

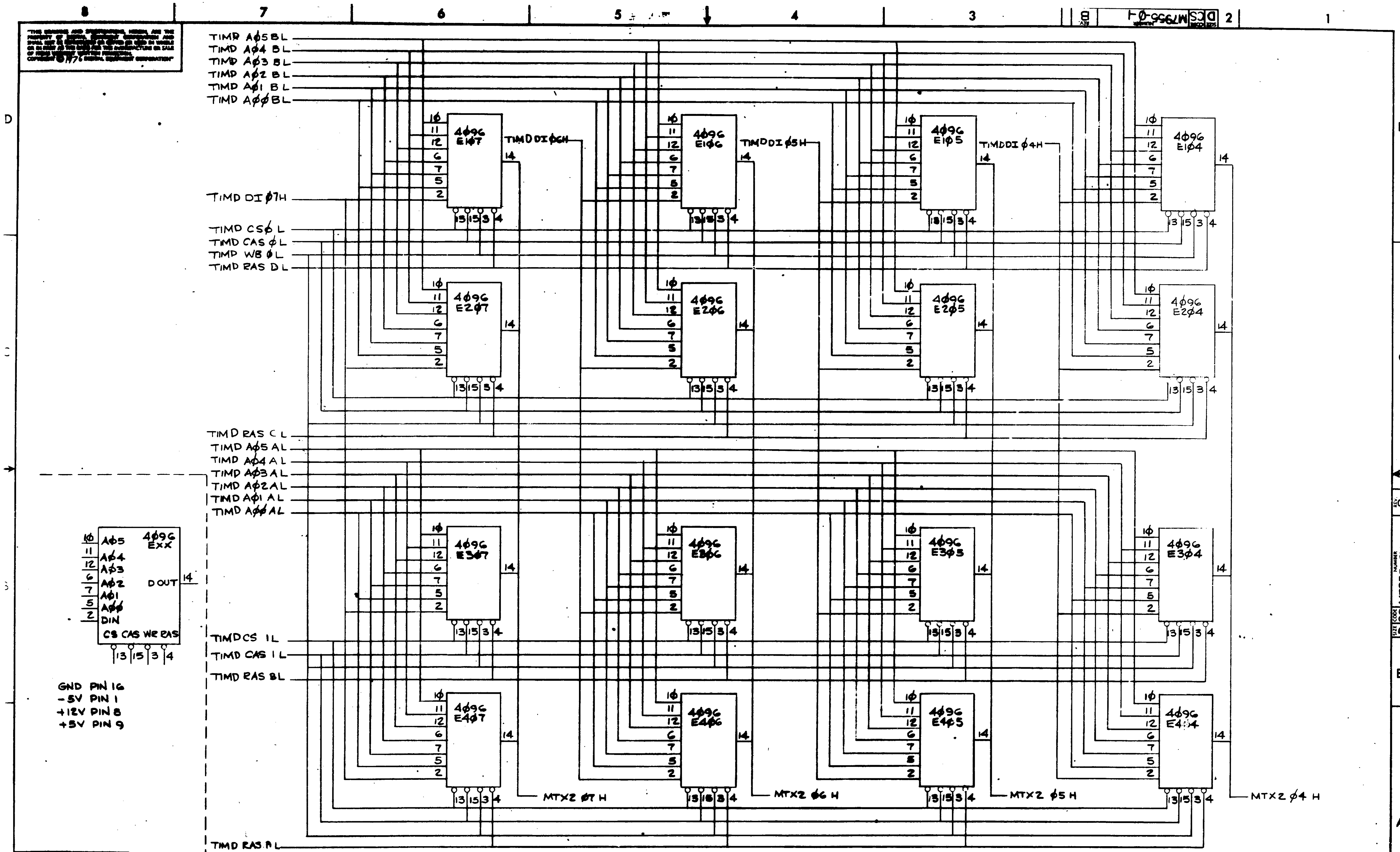


(ARRAY) DATA BITS (11- 8) MTX1

TITLE MSVII-C MOS MEMORY, LSI

SIZE D CODE CS NUMBER M7955-Ø-1 REV. B

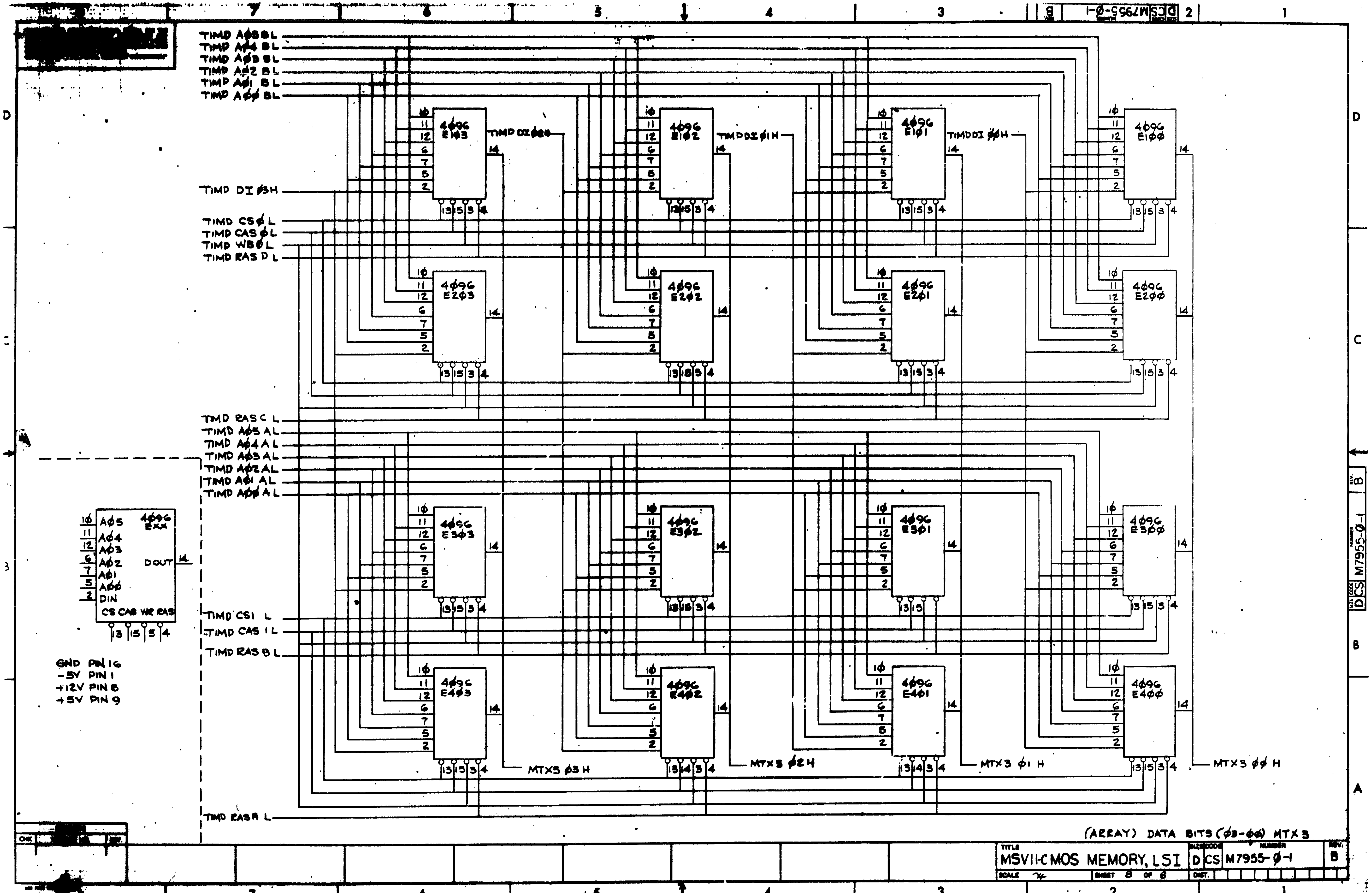
SHEET 6 OF 8



(ARRAY) DATA BITS (7-4) MTX2

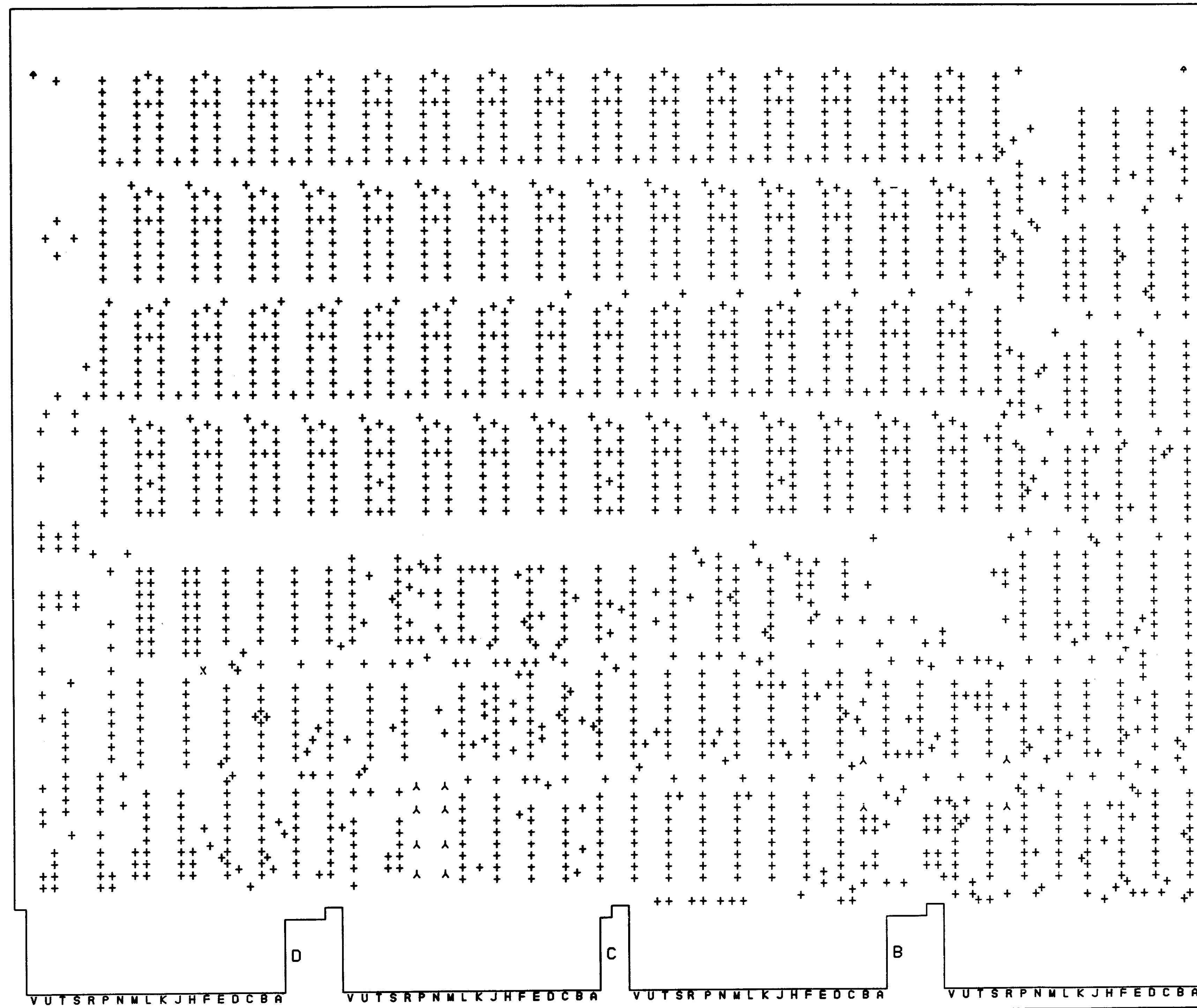
TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C MOS MEMORY, LSI	D	CS	M7955-0-1	B

SCALE — SHEET 7 OF 8


TIMD A05 BL
TIMD A04 BL
TIMD A03 BL
TIMD A02 BL
TIMD A01 BL
TIMD A00 BL
TIMD DI 03H
TIMD DI 02H
TIMD DI 01H
TIMD DI 00H
TIMD CS0 L
TIMD CAS 0 L
TIMD WB0 L
TIMD RAS D L
TIMD RAS C L
TIMD A05 AL
TIMD A04 AL
TIMD A03 AL
TIMD A02 AL
TIMD A01 AL
TIMD A00 AL
TIMD CS1 L
TIMD CAS 1 L
TIMD RAS B L
TIMD RAS A L
4096 E103
4096 E102
4096 E101
4096 E100
4096 E203
4096 E202
4096 E201
4096 E200
4096 E303
4096 E302
4096 E301
4096 E300
4096 E403
4096 E402
4096 E401
4096 E400
MTX3 03 H
MTX3 02 H
MTX3 01 H
MTX3 00 H
4096 EXX
A05
A04
A03
A02
A01
A00
DIN
DOUT
CS CAS WE RAS
GND PIN 16
-5V PIN 1
+12V PIN 8
+5V PIN 9
(ARRAY) DATA BITS (03-00) MTX3
TITLE MSV11-C MOS MEMORY, LSI
D CS M7955-0-1
REV. B
SHEET 8 OF 8

[illegible] © 1976 [illegible]

COMPONENT SIDE VIEW



NOTES:

CHK | CHANGE NO | REV

HOLE DATA										
SYMBOL	+	⅄	X	⯅	Z	M	Δ	Ⓤ	◆	*
FIN HOLE SIZE	.038	.032	.156	.128						
PLATED	X	X	X	X						
NON PLATED										
QTY.	2464	12	1	2						
◯-OFF GRD HLE										
DRILL SIZE										

BOARD FABRICATION INFORMATION
PANEL SIZE 8.54 X 11.75
PANEL DATA DWG.# MULTILAYER
PANEL MAT'L .052 THK.
QTY. OF LAYERS 4
COPPER THICKNESS 1 OZ.
PTH. X PRINT AND ETCH
MODULE INSERTED 100 TIMES OR MORE? N/A

SIGNATURES	DATE
DRN. R. SULLIVAN	9-3-76
CHK'D. [signature]	10 Sep 76
ENG. [signature]	9/10/76
PROJ.ENG. [signature]	9/10/76
PROD. [signature]	9/10/76
SCALE 2 : 1	
SHT. 1 OF 5	
NEXT HIGHER ASSY. D-UA-M7955-0-0	

digital

TITLE DRILL AND ETCH DRAWING

SIZE	CODE	NUMBER	REV
D	MD	5012203-0-0	B

ETCH REV. C

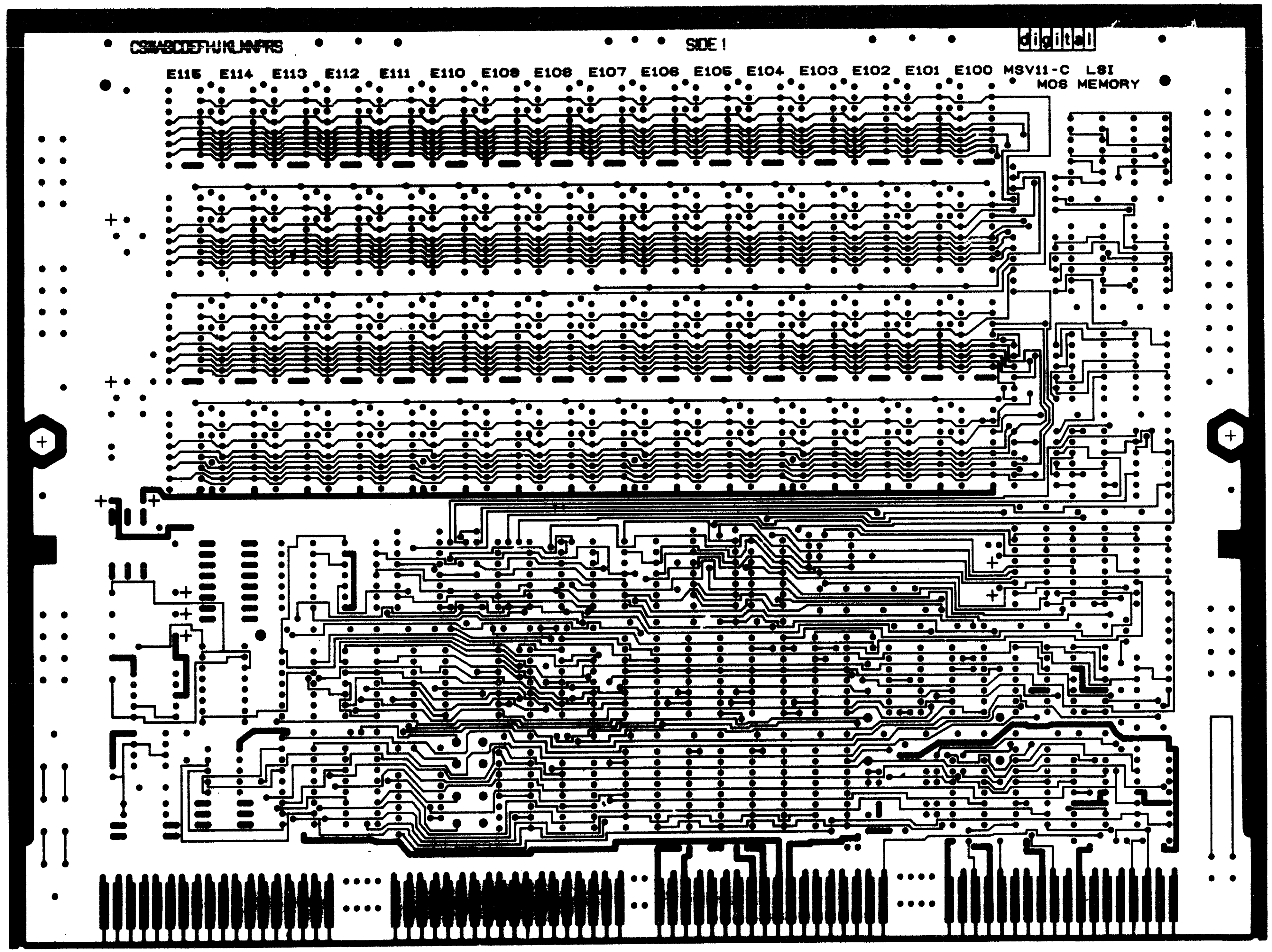
MS# 81032

D MD 5012203-0-0 B

L1

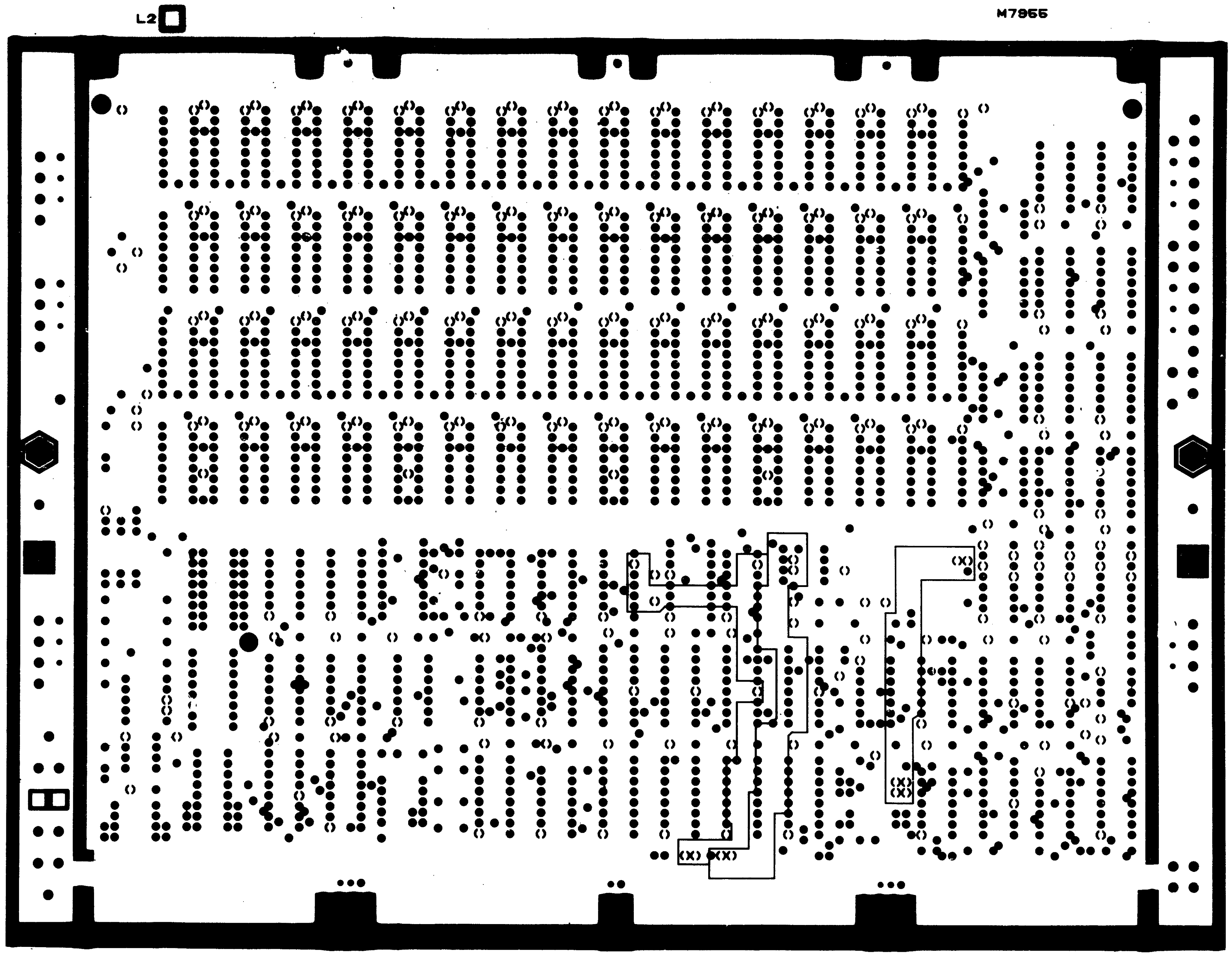
LAYER 1

5012203C
M881032
M7955



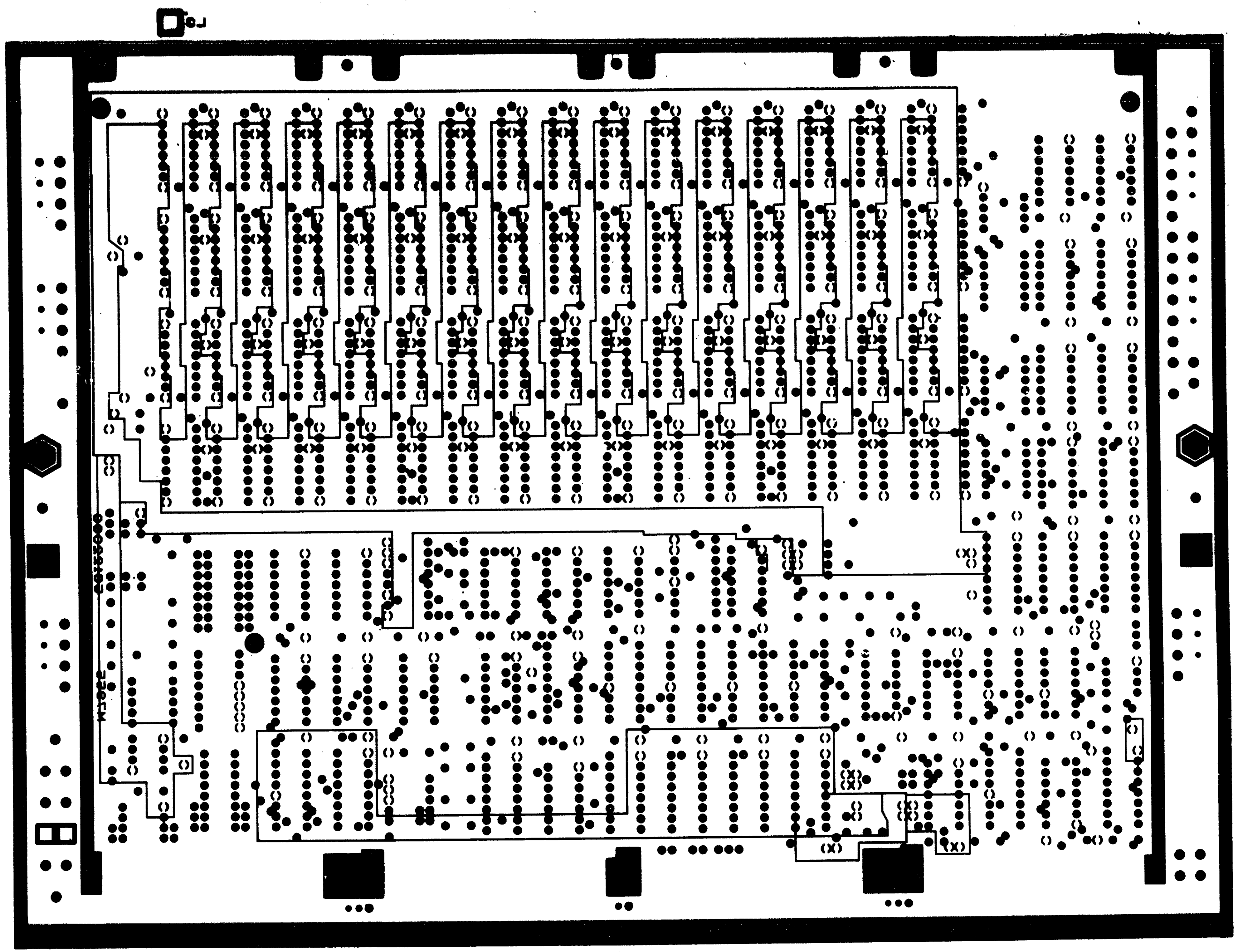
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D	MD	5Ø122Ø3-Ø-Ø	B
SCALE 2/1 SHEET 2 OF 5	DIST.			



REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D	MD	5012203-0-0	B
SCALE 2/1	SHEET 3 OF 5	DIST.		



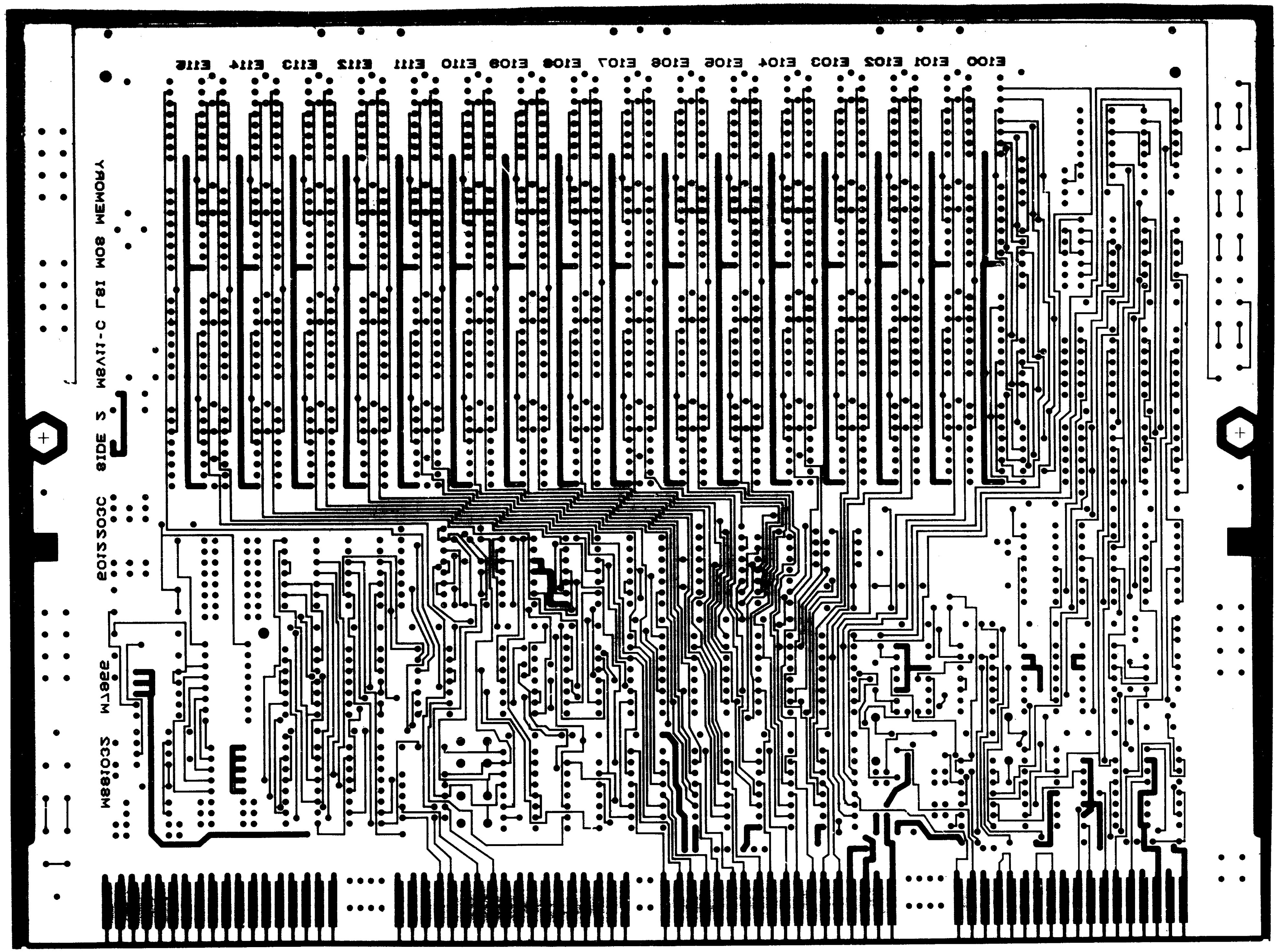
REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER	REV.
M5VII-C LSI MOS MEMORY		D	MD	5Ø122Ø3-Ø-Ø	B
SCALE 2/1	SHEET 4 OF 5	DIST.			

D MD 5Ø122Ø3-Ø-Ø B

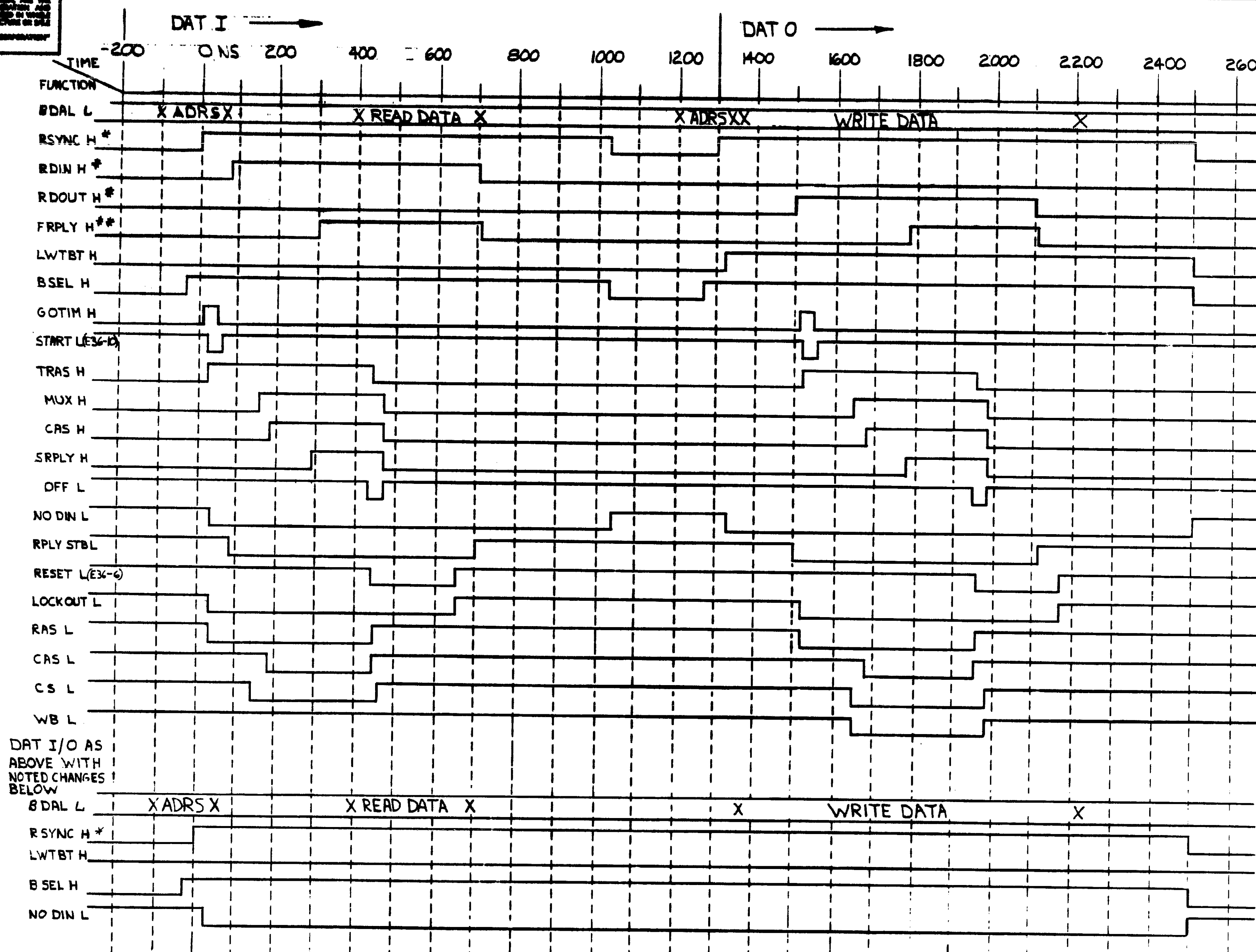
8 7 6 5 4 3 2 1

D C B A



REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
MSV11-C LSI MOS MEMORY	D	MD	5Ø122Ø3-Ø-Ø	B
SCALE 2/1 SHEET 5 OF 5	DIST.			



BDAL L: BUFFERED BIDIRECTIONAL ADDRESS AND DATA BUS

RSYNCH: BUFFERED BUS SIGNAL FROM MASTER THAT INITIATES BUS CYCLE AND LATCHES ADRS & UTBT

RDIN H: BUFFERED BUS SIGNAL FROM MASTER THAT ENABLES DATA TO BE PUT ON THE BUS.

RDOUT H: BUFFERED BUS SIGNAL FROM MASTER THAT INDICATES WRITE DATA IS ON THE BUS & STARTS DAT Ø.

FRPLY H: FLOP DRIVING BRPLY L BUS SIGNAL AS A REPLY TO DIN & DONT.

LWTBT H: LATCHED SIGNAL SAYING THIS IS A DATO CYCLE.

BSEL H: SIGNAL SAYING THAT I AM THE DEVICE REQUESTED BY THE MASTER.

GOTIM H: SIGNAL THAT STARTS MEMORY TIMING.

START L: START PULSE FOR MEMORY TIMING AFTER REFRESH SYNCHRONIZATION.

TRAS H: SIGNAL USED FOR RAS AND TO START LOCKOUT.

MUX H: SIGNAL USED TO SWITCH ADRS MUX AND SEND CS & WB

CAS H: SIGNAL USED FOR CAS.

SRPLY H: SIGNAL USED TO SET FRPLY H FLOP.

OFF L: SIGNAL USED TO RESET MEMORY TIMING

NO DIN L: SIGNAL USED TO PREVENT MULTIPLE CYCLES AND TO WAIT FOR RDOUT H IN DATO CYCLES

RPLY STBL: RESET FOR FRPLY H FLOP.

RESET L: EXTENDS LOCKOUT SIGNAL TO ENSURE PROPER MEMORY TIMING.

LOCKOUT L: SIGNAL TO PREVENT STARTING ANOTHER CYCLE TILL COMPLETING THE PRESENT CYCLE

RAS L: MEMORY CHIP ROW ADDRESS STROBE.

CAS L: MEMORY CHIP COLUMN ADDRESS STROBE

CS L: MEMORY CHIP SELECT LINE

WB L: MEMORY CHIP WRITE ENABLE

* THE WIDTH OF RSYNC, RDIN, AND RDOUT IS DETERMINED BY THE MASTER DEVICE.

** IF RDIN COMES AFTER FRPLY H IS SET, FRPLY H AND THE READ DATA WILL WAIT FOR THE RDIN.

DRN.	7-2?-76
CHK'D	
ENG.	
PROJ. ENG.	
PROD.	
NEXT HIGHER ASSY.	B-DD-MSV11-C
SCALE	—
SHEET 1 OF 1	

FIRST USED ON: MSV11-C

digital

TITLE: MSV11-C TIMING

SIZE	CODE	NUMBER	REV.
D	TD	M7955-0-2	A

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

UNIT VARIATIONS COVERED BY THIS PRINT SET
DLV11

DLV11
Field Maintenance
Print Set

Digital Equipment Corporation
PRINT SET ORDER NO.
MPØØ055

REVISIONS		
REV.	CHG. NO.	DATE
*	DLV11-2 ORIGINATED	6/76

USED ON OPTION/MODEL	
PDP11	

SHEET 1 OF 1

DRN.	HOLZER	DATE 5-9-76
CHK'D	Elizabeth Ahrens	DATE 5/9/76
PROJ. ENG.	R. Holzer	DATE 5/9/76
FIELD SERV.	John Cooke	DATE 5/9/76

digital

TITLE: SERIAL LINE UNIT

SIZE	CODE	NUMBER	REV.
B	TC	B-TC-DLV11-Ø-3	*

DIST.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. RILEY DATE 7/11/75	CHECKED D. HEALY DATE 9/8/75	SECTION 1
ENG [signature] DATE 10/17/75	PROD [signature] DATE 10-16-75	ISSUED SECT. 1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION											
1	D-CS-M794Ø-Ø-1	SERIAL LINE UNIT	1											
2	A-PS-9905622-0-0	BOX,FOLDING,REVERSE TUCK	1											

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
SERIAL LINE UNIT	NONE	A	PL	DLV11-Ø-Ø	A	DLV11-00004
	SHEET 1 OF 1	DIST.				

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

[redacted]

NOTES:

1. THIS MODULE PLUG IS COMPATABLE WITH:
   A. BC05M TTY CABLE.
   B. BC05C MODEM CABLE.
2. THE POLARITY REVERSES WHEN USING THE 20 MA CURRENT LOOP TRANSMITTER OR RECEIVER IN THE PASSIVE CONFIGURATION. WHEN USING THE BC05M CARE MUST BE TAKEN TO SWAP THE APPROPRIATE WIRES.
3. A. INSERT WITH ACCORDANCE TO VENDOR PACKAGE.

VENDOR NAME:

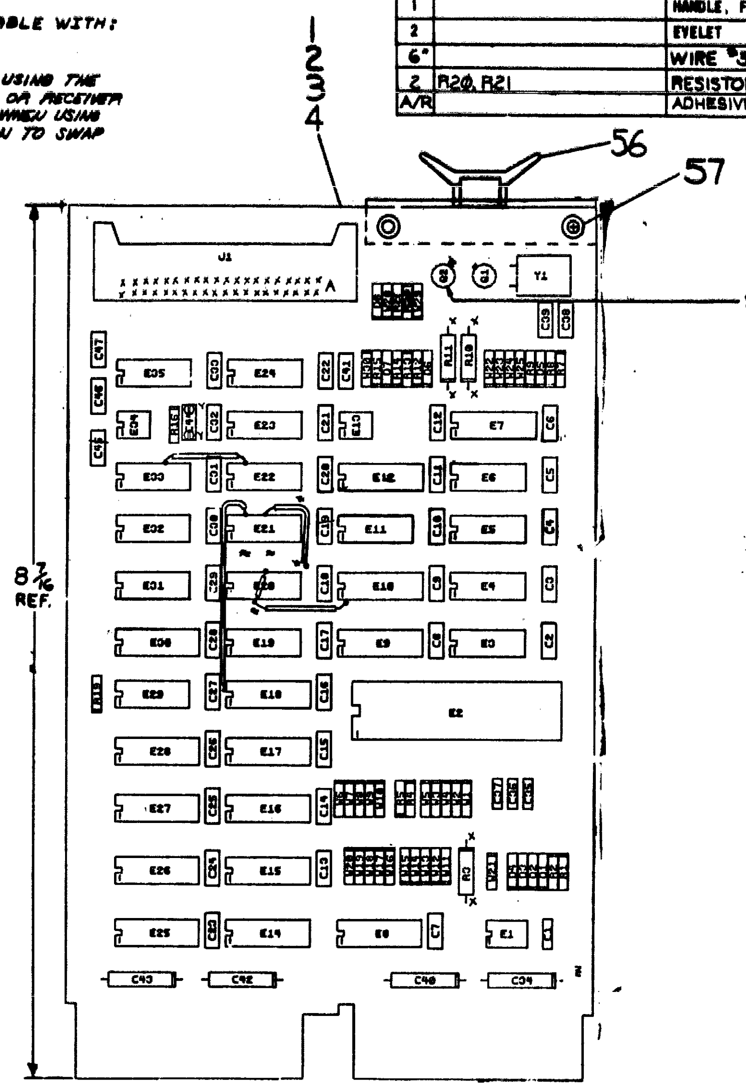
B. GPSA (VENDOR-E) IS THE ONLY VENDOR PACKAGE MOUNTED WITH THE FLAT REVERSED.

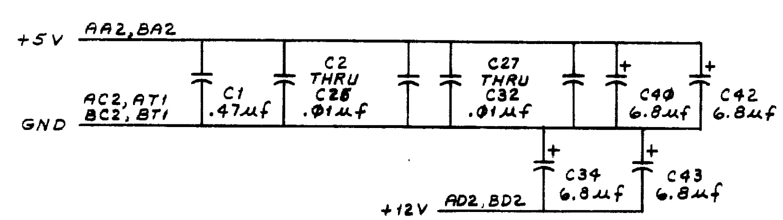
4. PARTS IN THE FOLLOWING ALTERNATE PARTS LIST MAY BE USED IN PLACE OF THE CORRESPONDING PRIME PART WHEN NECESSARY.

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
31	C2 THRU 25, 27 THRU 33	CAPACITOR .01 µf 100V +80-20%	1001610-01	8A

5. USE ADHESIVE (ITEM 60) WHERE NECESSARY TO SECURE REWORK WIRES.
6. THE FOLLOWING JUMPER REFERENCE DESIGNATIONS ARE NOT USED: W26, W27 (REPLACED BY RESISTORS R20, R21 PER ECO # M7940-00002).
7. THE FOLLOWING JUMPERS MAY BE INSERTED BY MANUFACTURING IN ORDER TO TEST AT 9600 BAUD, BUT WILL BE REMOVED BEFORE FINAL TEST AT 110 BAUD AND SHIPMENT TO CUSTOMER: W2, W22 THRU W24, W30.

8	W6, W7, W10, W16, W20, W21, W28, W29	INSULATED JUMPER WIRE	9009105	55
1		HANDLE, FLIP CHIP, MAGENTA	9006337-6	56
2		EYELET	9006732	57
6"		WIRE #30 AWG BUSS (RETROFIT)	9105740-55	58
2	R20, R21	RESISTOR, 180 Ω, 1/4W 5%	1301322	59
A/R		ADHESIVE	4901230	60





IC TYPE	GND	+5V	-12V	+12V
I.C. DEC MH0026C	3			6
I.C. DEC HSUART	3	1	2	
I.C. DEC 1488			1	14
I.C. DEC 7493	10	5		
I.C. DEC 74175	8	16		
I.C. DEC 74157	8	16		
I.C. DEC 74155	8	16		
I.C. DEC 8837	8	16		
I.C. DEC 8641	8	16		
I.C. DEC 8136	8	16		

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

IC PIN LOCATIONS

PARTS LIST

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF		X-Y COORDINATE HOLE LOCATION	K-CO-M7940-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M7940-0-5	2
REF		MODULE ECO HISTORY	B-MH-M7940-0-6	3
1		ETCHED CIRCUIT BOARD	5011558	4
2	C38, C39	CAPACITOR, 33pf, 100V, 5%	1000009	5
4	C41, C45, C46, C47	CAPACITOR, 330pf, 100V, 5%	1000023	6
1	C28	CAPACITOR, 820pf, 100V, 5%	1000027	7
31	C2 THRU C25, C27 THRU C33	CAPACITOR, .01uf, 50V, +80 -20	1001610-00	8
1	C44	CAPACITOR, 5000 Pf, 100V, 20%	1001765	9
4	C34, C40, C42, C43	CAPACITOR, 6.8uf, 35V, 10%	1005306	10
4	C35, C36, C37, C1	CAPACITOR, .47uf, 25V, 20%	1010279	11
4	D1, D2, D3, D5	DIODE, D664	1100114	12
2	D6, D7	DIODE, IN4004	1105796	13
1	D4	DIODE, IN759A	1110636	14
1	D8	DIODE, MCL1301	1105810	15
1	J1	CONNECTOR, 40 PIN, R.ANG. HEADER 3M	1209941-02	16
2	R4, R5	RESISTOR, 47 OHM, 1/4W, 5%	1300202	17
1	R13	RESISTOR, 68 OHM, 1/4W, 5%	1300219	18
1	R3	RESISTOR, 120 OHM, 1/2W, 5%	1300243	19
1	R15	RESISTOR, 150 OHM, 1/4W, 5%	1300250	20
2	R7, R14	RESISTOR, 220 OHM, 1/4W, 5%	1300271	21
1	R6	RESISTOR, 330 OHM, 1/4W, 5%	1300295	22
2	R10, R11	RESISTOR, 270 OHM, 1/2W, 5%	1300285	23
2	R1, R2	RESISTOR, 470 OHM, 1/4W, 5%	1300316	24
1	R16	RESISTOR, 2.4K OHM, 1/4W, 5%	1303177	25
1	R12	RESISTOR, 68K OHM, 1/4W, 5%	1301327	26
1	R19	RESISTOR, 100 OHM, 1/4W, 5%	1300229	27
1	R9	RESISTOR, 10M, 1/4W	1302668	28
2	E14, E28	RESISTOR NETWORK, 330/680 OHM	1311003-02	29
1	Q1	TRANSISTOR, DEC 6534D	1503409	30
1	Q2	TRANSISTOR, MXA55	1510706	31
1	Y1	XTAL, 2.4576 MHZ	1812396	32
3	E5, E31, E33	I.C. DEC 7474	1905547	33
1	E22	I.C. DEC 7410	1905576	34
1	E11	I.C. DEC 7430	1905578	35
1	E23	I.C. DEC 7402	1909004	36
1	E6	I.C. DEC 7493	1909054	37
1	E4	I.C. DEC 74S04	1910534	38
3	E3, E19, E29	I.C. DEC 8881	1909705	39
2	E21, E32	I.C. DEC 7408	1910155	40
1	E24	I.C. DEC 1488	1910322	41
1	E35	I.C. DEC 1489	1910323	42
1	E20	I.C. DEC 74S74	1910544	43
1	E9	I.C. DEC 74175	1910651	44
3	E17, E27, E30	I.C. DEC 74157	1910655	45
3	E8, E12, E25	I.C. DEC 8837	1911116	46
2	E16, E18	I.C. DEC 8641	1911579	47
2	E13, E34	I.C. DEC 4N26-01	1911998-01	48
1	E1	I.C. DEC MH0026C	1912098	49
2	E15, E26	I.C. DEC 8136	1912395	50
1	E10	I.C. DEC 74155	1910656	51
1	E7	I.C. DEC 34702	2112622-00	52
1	E2	I.C. DEC HSUART (40 PIN)	2111450	53
2	TP1, TP2	SPLIT LUG	9006735	54

ETCH BOARD REV. B

FIRST USED ON OPTION MODEL: LSI 11

REV.	CHANGE NO.	
F	M7940-00005	M. MICHAUD 5-APR-77
E	M7940-00004	D. BENNETT 11 JAN 77
D	M7940-00003	H. Densmore 5-21-76 / JOHN CYR
C	M7940-00002	J. CYR
B	M7940-00001	H. Densmore 7-8-75

REVISIONS

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

SEMICONDUCTOR CONVERSION CHART

DRN. J. Vincent DATE 4-8-75
CHK'D DATE 5-8-75
ENG. DATE
PROD. ENG. DATE
PROD. DATE
NEXT HIGHER ASSY

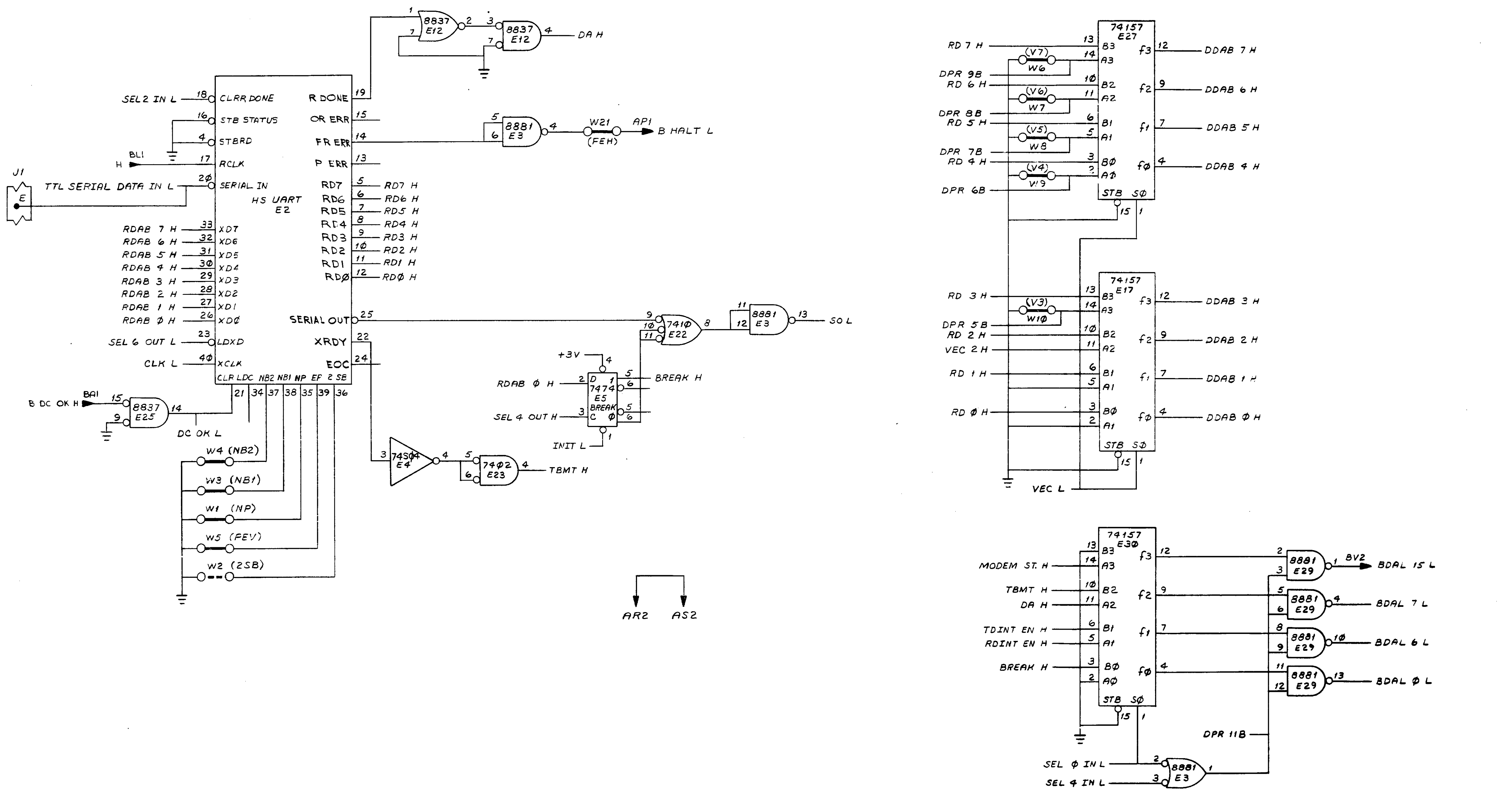
digital

TITLE: SERIAL LINE UNIT

SIZE D CODE CS NUMBER M7940-0-1 REV. F

SCALE —/— SHEET 1 OF 5 DIST.

DEC FORM NO. DRD 1350



(UART & MULTIPLEXOR LOGIC)

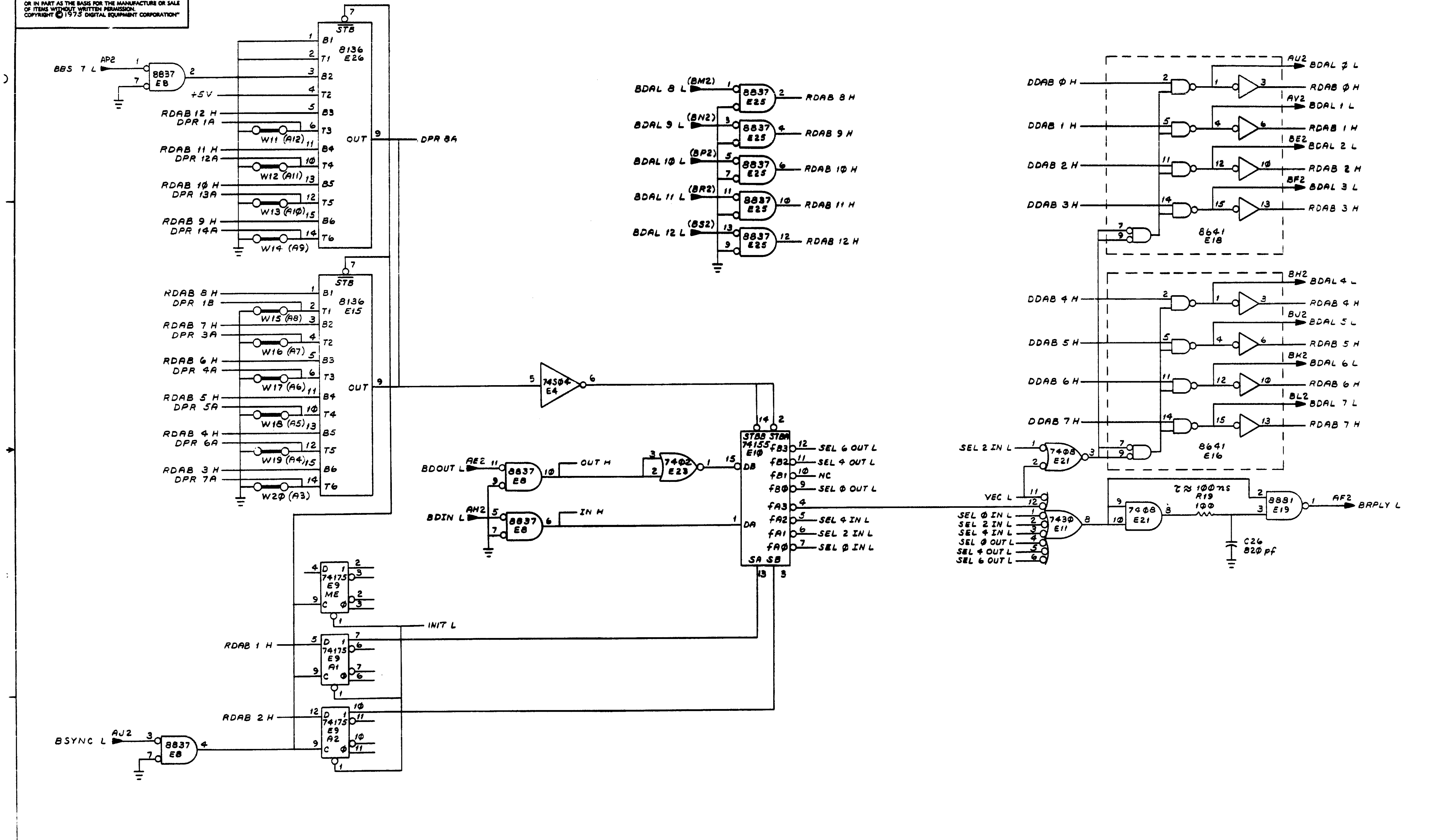
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: SERIAL LINE UNIT

SIZE	CODE	NUMBER	REV.
D	CS	M7940-Ø-1	F

SCALE —/— SHEET 2 OF 5

DIST.



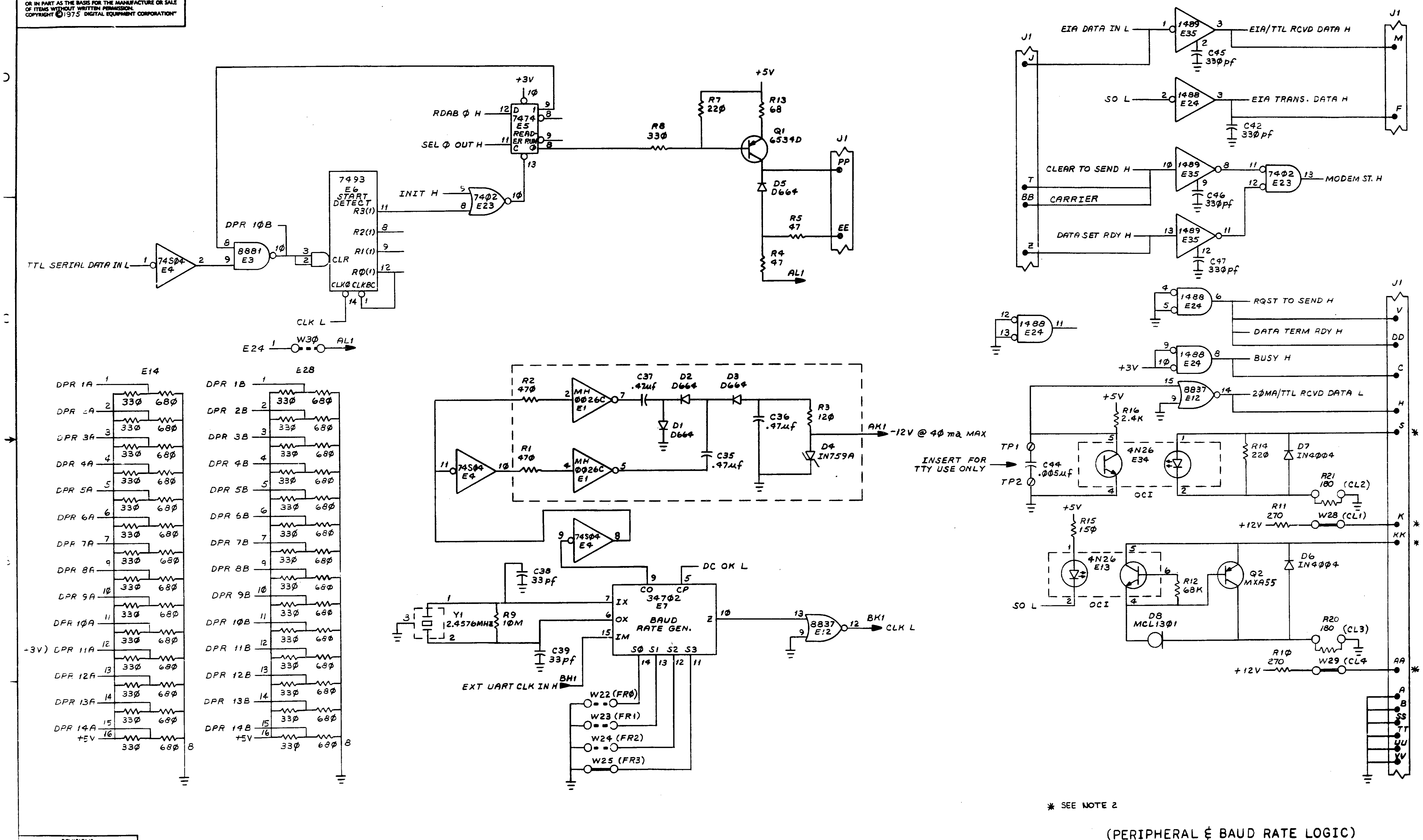
(BUS ADDRESS & I/O LOGIC)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SERIAL LINE UNIT

SIZE D CODE CS NUMBER M7940-0-1 REV. F

SCALE — SHEET 3 OF 5



(PERIPHERAL & BAUD RATE LOGIC)

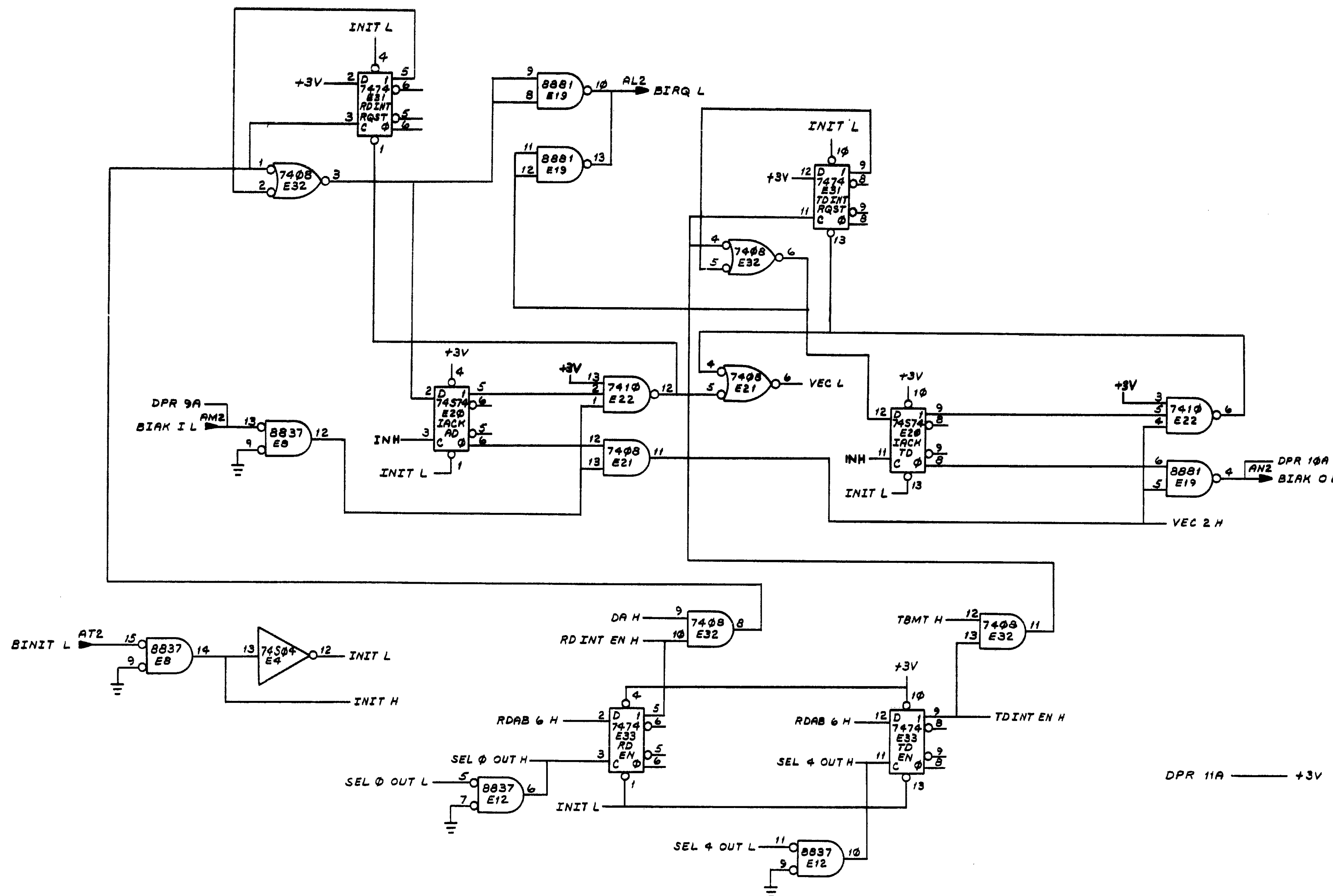
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE SERIAL LINE UNIT

SIZE D CODE CS NUMBER M7940-0-1 REV. F

SCALE — SHEET 4 OF 5

EC FORM NO. ARD 138



(INTERRUPT & ENABLE LOGIC)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SERIAL LINE UNIT	D	CS	M794Ø-Ø-1	F
SCALE —	SHEET 5 OF 5			

DEC FORM NO. DRD 138

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY Liz Hevesh DATE 1/19/76	CHECKED J. SYR DATE 27 JAN 76	SECTION 1	
ENG John Cyr DATE 1/22/76	PROD J. SYR DATE 27 JAN 76	ISSUED SECT. 1	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	MP-0054	CUSTOMER PRINT SET DLV11	1
2	DEC11-DVKAE-A-PB	DLV11 TEST	*
		*NOTE: These items are shipped with first	
		ship to customer.	

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
SHIPPING LIST DLV11	SHEET 1 OF 1	A	PL	DLV11-Ø-2	ORIG	DLV11-00001
		DIST.				

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

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

	SEQUENCE	
DRAWING DIRECTORY BA11-M		B-DD-BA11-M
BOX,FRAME & P.S.		E-UA-BA11-M-Ø
DRAWING DIRECTORY (H927Ø-A & H78Ø)		B-DD-7011841-0
SHIPPING LIST		A-PL-BA11-M-1

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1			
BA11-MA	3.5 BOX, H927Ø-A & H78Ø-A	X			
BA11-MB	3.5 BOX, H927Ø-A & H78Ø-B	X			
BA11-MC	3.5 BOX, NO FRAME OR P.S.	X			
BA11-ME	3.5 BOX, H9270-A & H780-E	X			
BA11-MF	3.5 BOX, H9270-A & H780-F	X			

REVISIONS

REV	CHG. NO.	DATE
A	BA11-M-1	JAN76
B	BA11-M-2	FEB76
C	BA11-M-3	5-76
D	BA11-M-4	5-76
E	BA11-M-5	8-76
F	BA11-M-6	2-77
H	BA11-M-7	4-77

USED ON OPTION/MODEL: 11/Ø3

SHEET 1 OF 3

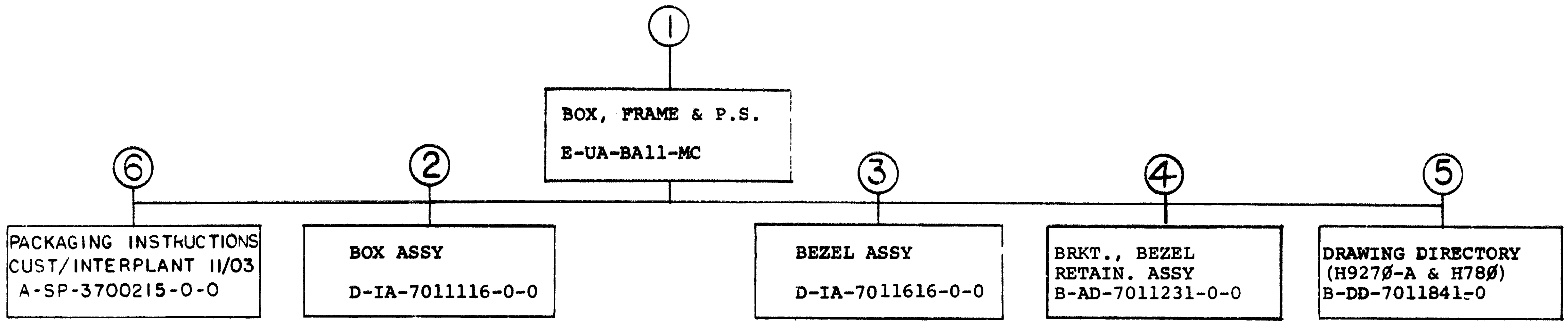
		DATE
DRN.	M. BAPTISTE	8/4/75
CHK'D.	D. HEALY	9/10/75
PROJ ENG.	[signature]	10/16/7
PROD.	[signature]	10/16/75
FIELD SERV.	[signature]	

TITLE: DRAWING DIRECTORY BA11-M

SIZE	CODE	NUMBER	REV
B	DD	BA11-M	H

DIST

DRB 106



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BA11-M-Ø	2 OF 3	B	DD	BA11-M	H

ELECTRICAL (SECTION 1)

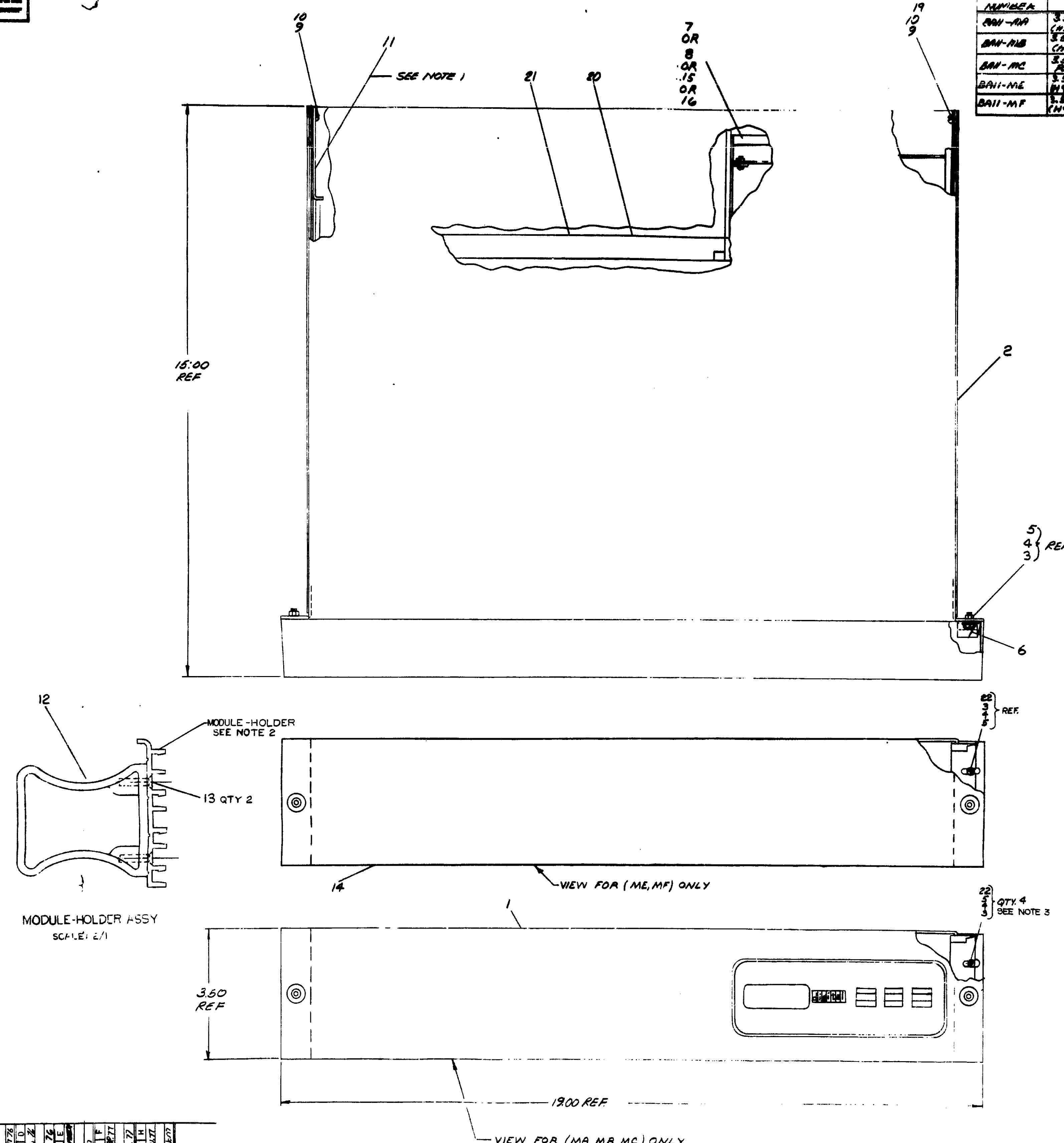
CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-BA11-M-Ø	F	1	BOX, FRAME & P.S. ASSY	
X			A-PL-BA11-M-1		1	SHIPPING LIST	
X		5	B-DD-7011841-0		3	DRAWING DIRECTORY (H927Ø-A & H78Ø)	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	E-UA-BA11-M-Ø	F	1	BOX, FRAME & P.S. ASSY	
			B-MD-7414005-0-0		1	BRKT., BEZEL RETAINER	
			C-PS-1212980-0-0		1	HANDLE-MODULE HOLDER	
			A-PL-7011609-0-0		1	MOUNTING BRACKET KIT	
			C-IA-7008612-0-0		1	CABLE, KEYBOARD	
		2	D-IA-7011116-0-0		1	BOX ASSY	
			D-IA-7418845-0-0		1	BOX	
			C-MD-7413848-0-0		1	COVER, BOTTOM	
			B-MD-7414211-0-0		1	SUPPORT	
		3	D-AD-7011616-0-0		1	BEZEL ASSY	
			D-MD-7414049-0-0		1	BEZEL	
			A-SS-7414020-0-0		1	PDP 11/Ø3 LOGO	
		4	B-AD-7011231-0-0		1	BRKT. BEZEL RETAINER ASSY	
			B-MD-7413989-0-0		1	BRACKET, BEZEL RETAINER	
		5	B-DD-7011841-0		3	DRAWING DIRECTORY (H927Ø-A & H78Ø)	
	X	6	A-SP-3700215-0-0	–	3	PACKAGING INSTRUCTIONS 11/03	
			A-PS-9905832-0-0			CARTON, REGULAR SLOTTED	
			A-PS-9905834-0-0			LAMINATED BUILDUP	
			A-PS-9905729-0-0			CARTON SEALING TAPE	
			A-PS-9905129-0-0			POLY BAG	
			A-PS-9009634-0-0			TAPE	
			A-PS-9905831-0-0			CARTON, REGULAR SLOTTED	
			A-PS-9905833-0-0			SCORED SHEET	

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY BA11-M	3 OF 3	B	DD	BA11-M	H



LEGEND

NUMBER	VARIATION
BA11-MA	3.5 BOX + FRAME, P.S. ASSY (H9270-A + H780-A) 115V
BA11-MB	3.5 BOX + FRAME, P.S. ASSY (H9270-A + H780-B) 230V
BA11-MC	3.5 BOX NO FRAME OR POWER SUPPLY
BA11-ME	3.5 BOX + FRAME & P.S. ASSY (H9270-A + H780-E) 115V
BA11-MF	3.5 BOX + FRAME & P.S. ASSY (H9270-A + H780-F) 230V

NOTES:

1. TO BE ASSEMBLED AFTER ITEM 7 OR 8 OR 15 OR 16 IS INSTALLED.
2. ASSEMBLE MODULE HOLDER 1209806-00 SUPPLIED IN UA-H9270 TO HANDLE ITEM 12 WITH SCREWS ITEM 13.
3. TO INSURE PROPER ALIGNMENT OF BEZEL MOUNTING HARDWARE, ITEM 6 MUST HAVE BENT TABS FLUSH AGAINST BA11-M BOX (ITEM 2) AND MUST BE FASTENED WITH THE PROPER PAN HD SCREW CALLED FOR.

BA11-MF	BA11-ME	BA11-MC	BA11-MB	BA11-MA	DESCRIPTION	DWG./PART NO.	ITEM NO.
4	4	4	4	4	WASHER, FLAT #10	9006664	22
1	1	—	—	—	SERIAL NO. TAG	3613210	21
1	1	—	—	—	UL DECAL	7416197-02	20
1	1	1	1	1	WASHER, FLAT #8	9006660	19
1	1	1	1	1	BEZEL PROTECTOR	1212795	18
1	1	1	—	—	PACK INST CUST/INTERPLANT 11/03	A-SP-3700215-0-0	17
1	—	—	—	—	FRAME & P.S. ASSY (H9270-A + H780-F)	D-AD-7011841-3-0	16
—	1	—	—	—	FRAME & P.S. ASSY (H9270-A + H780-E)	D-AD-7011841-2-0	15
1	1	—	—	—	BEZEL ASSY	D-AD-7011616-1-0	14
2	2	2	2	2	SCR PL 'HD SELFTAP 6-32×.25	9009796-0	13
1	1	1	1	1	HANDLE-MODULE HOLDER	C-PS-1212980-0-0	12
1	1	1	1	1	BRKT. RETAINER	B-MD-7414005-0-0	11
2	2	2	2	2	WASHER, LOCK INT. TOOTH #8	9006634	10
2	2	2	2	2	SCREW, PN HD, MAN #8-32 X.38	9006037-1	9
—	—	—	1	—	FRAME & POWER SUPPLY ASSY (H9270-A + H780-B)	D-AD-7011841-1-0	8
—	—	—	—	1	FRAME & POWER SUPPLY ASSY (H9270-A + H780A)	D-AD-7011841-0-0	7
2	2	2	2	2	BRKT. BEZEL RETAINER ASSY	B-AD-7011231-0-0	6
—	4	4	4	4	NUT, KEPS #10-32	9006565	5
4	4	4	4	4	WASHER, LOCK INT. TOOTH #10	9006635	4
4	4	4	4	4	SCREW, PN HD PAN #10-32 X.75	9006075-1	3
1	1	1	1	1	BOX ASS'Y	D-IA-7011116-0-0	2
—	—	1	1	1	BEZEL ASSY	D-AD-7011616-0-0	1

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

FIRST USED ON 11/03

digital

TITLE BOX, FRAME + P.S. ASSY (BA11-M)

NEXT HIGHER ASSY. E-DD-BA11-M

SCALE NONE

SIZE E CODE UA NUMBER BA11-M-0 REV. H

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE	
DRAWING DIRECTORY 7011841	B-DD-7011841-0
FRAME & P.S. (H927Ø-A & H78Ø)	D-AD-7011841-0-0
DRAWING DIRECTORY H927Ø-A	B-DD-H927Ø-A
DRAWING DIRECTORY H78Ø	B-DD-H78Ø-Ø

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1			
7011841-1	H927Ø-A & H78Ø-A 115V	X			
7011841-2	H927Ø-A & H78Ø-B 230V	X			
7011841-3	H927Ø-A & H78Ø-E 115V	X			
7011841-4	H9270-A & H78Ø-F 230V	X			

REVISIONS		
REV	CHG. NO.	DATE
A	7011841-1	FEB-76

USED ON OPTION/MODEL	
11/Ø3	

SHEET 1 OF 3

	DATE
DRN. D. HEALY	9/10/75
CHK'D. D. HEALY	9/10/75
PROJ ENG. [signature]	10/17/75
PROD. [signature]	10/17/75
FIELD SERV.	

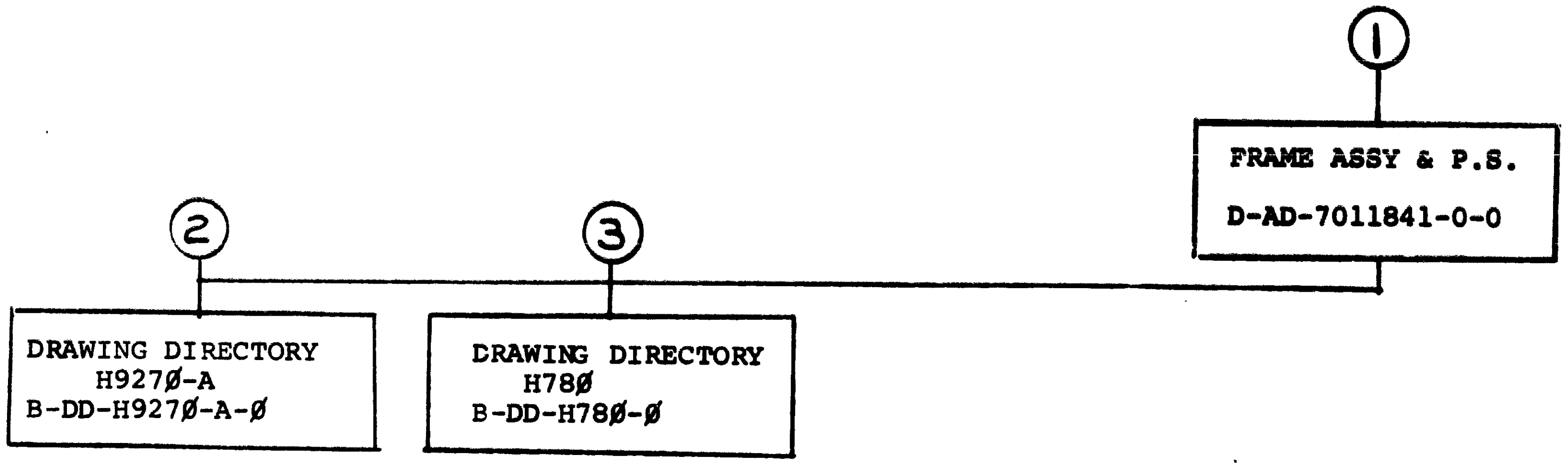
TITLE

DRAWING DIRECTORY
(H927Ø-A & H78Ø)

SIZE	CODE	NUMBER	REV
B	DD	7011841-0	A

DIST

CRB 106



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY (H927Ø-A & H78Ø)	2 OF 3	B	DD	7011841-0	A

DRB 107
DEC 16-(325)-1052-3-N871

ELECTRICAL (SECTION1)

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
1							
X		1	D-AD-7011841-0-0		1	FRAME ASSY & P.S. (H927Ø-A & H78Ø)	
C		2	B-DD-H927Ø-A-Ø		2	DRAWING DIRECTORY H927Ø-A	
C		3	B-DD-H78Ø-Ø		4	DRAWING DIRECTORY H78Ø P.S.	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	D-AD-7011841-0-0		1	FRAME ASSY & P.S. (H927Ø-A & H78Ø)	
		2	B-DD-H927Ø-A-Ø.		2	DRAWING DIRECTORY H927Ø-A	
		3	B-DD-H78Ø-Ø		4	DRAWING DIRECTORY H78Ø P.S.	

CUSTOMER PRINT SET CODES
X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
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TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY (H927Ø-A & H78Ø)	3 OF 3	B	DD	7011841-0	A

DRB 108

digital EN-01062-2B-16-R972-(325)

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY R. Lewis DATE 4 June 1976	CHECKED R Lewis DATE 4 June 76	SECTION 1	
ENG John R Lewis DATE 4 June 76	PROD H Stanhard DATE 4 June 76	ISSUED SECT. 1	

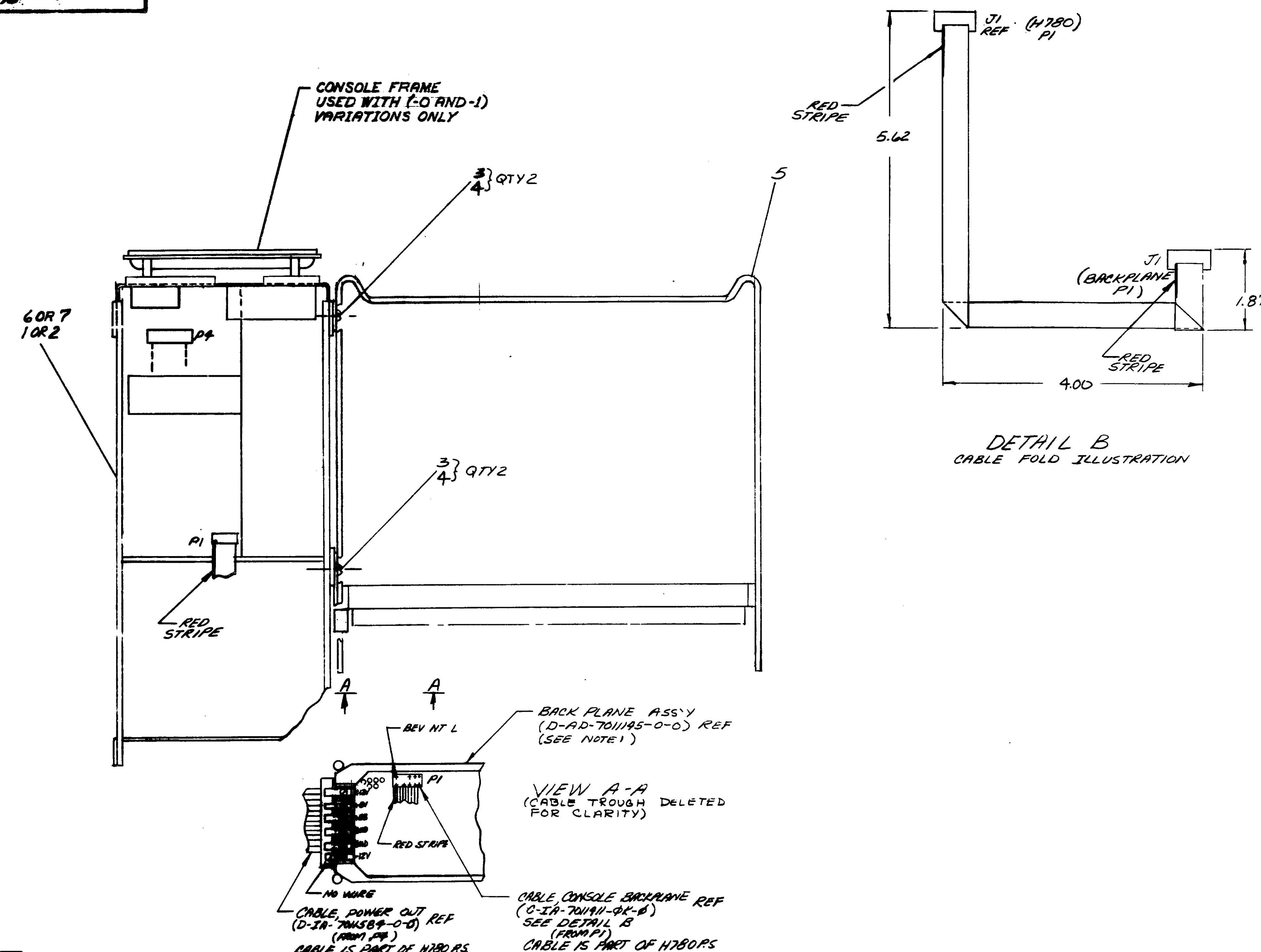
ITEM NO.	DWG NO./PART NO.	DESCRIPTION	BA11-MA	BA11-MB	BA11-MC	BA11-ME	BA11-MF							
1.	A-PL-7011609-0-0	MOUNTING BRACKET KIT	—	—	—	1	1							
2.	7008612-6A	CABLE, KEYBOARD, 6FT	—	—	—	1	1							

QUANTITY/VARIATION

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
BA11-M SHIPPING LIST	E-UA-BA11-M-Ø	A	PL	BA11-M-1		
	SHEET 1 OF 1	DIST.				

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

NOTES:
1. FOR WIRING INFO REFER TO D-AD-7011145-0-0



7011841-3-0	7011841-2-0	7011841-1-0	7011841-0-0	DESCRIPTION	DWG./PART NO.	ITEM NO.
1	–	–	–	H780-F SLAVE CON. 230V	E-UA-H780-F-0	7
–	1	–	–	H780-E SLAVE CON. 115V	E-UA-H780-E-0	6
1	1	1	1	FRAME ASSEMBLY	D-UA-H9270-A-0	5
4	4	4	4	WASHER, INT. TOOTH #8	9006634-0	4
4	4	4	4	SCREW, PH HD, PAN #8-32X.38	9006037-1	3
–	–	1	–	POWER SUPPLY 230V	E-UA-H780-B-0	2
–	–	–	1	POWER SUPPLY 115V	E-UA-H780-A-0	1

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

REVISIONS: REV. A — CHANGE NO. 7011841-0001

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN. 9-5-75 · CHK. 9-15-75 · ENG. 9/10/75 · PROJ. ENG. 9/23/75 · PROD. 7/10/75

FIRST USED ON: 11/03

NEXT HIGHER ASSY.: B-DD-7011841-0-0

TITLE: FRAME & P.S. ASSY (H9270-A & H780)

SCALE: NONE · SHEET 1 OF 1

SIZE: D · CODE: AD · NUMBER: 7011841-0-0 · REV.: A

digital

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

	SEQUENCE
DRAWING DIRECTORY H927Ø-A	B-DD-H927Ø-A
FRAME ASSY	D-UA-H927Ø-A-Ø
DRAWING DIRECTORY	B-DD-H927Ø-Ø

SEQUENCE

UNIT VARIATIONS		PRINT SET			
VAR	TITLE	1			
H927Ø-A	FRAME	X			

REVISIONS

REV	CHG. NO.	DATE
A	H9270-A-2	2-76
B	H9270-A-3	5-76
C	H9270-A-4	7-76
D	H9270-A-5	4-77

USED ON OPTION/MODEL	
11/Ø3	

SHEET 1 OF 2

		DATE
DRN.	D. HEALY	9/10/75
CHK'D.	D. HEALY	9/10/75
PROJ ENG.	[signature]	10/17/75
PROD.	[signature]	10/17/75
FIELD SERV.	[signature]	[illegible]

TITLE
DRAWING DIRECTORY
H927Ø-A

SIZE	CODE	NUMBER	REV
B	DD	H927Ø-A	D

DIST

EN-01062-1A-16-R972-(325)

DRB 106

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET 1				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X					1	D-UA-H927Ø-A-Ø	C	1	FRAME ASSY	
C					2	B-DD-H927Ø-Ø		3	DRAWING DIRECTORY H927Ø	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					1	D-UA-H927Ø-A-Ø		1	FRAME ASSY	
						B-IA-7413849-0-0		1	TROUGH, CABLE	
						B-MD-7413846-0-0		1	BAR, CABLE STRAIN RELIEF	
						C-MD-7416425-0-0		1	CLAMP	
					2	B-DD-H927Ø-Ø		3	DRAWING DIRECTORY H927Ø	

CUSTOMER PRINT SET CODES
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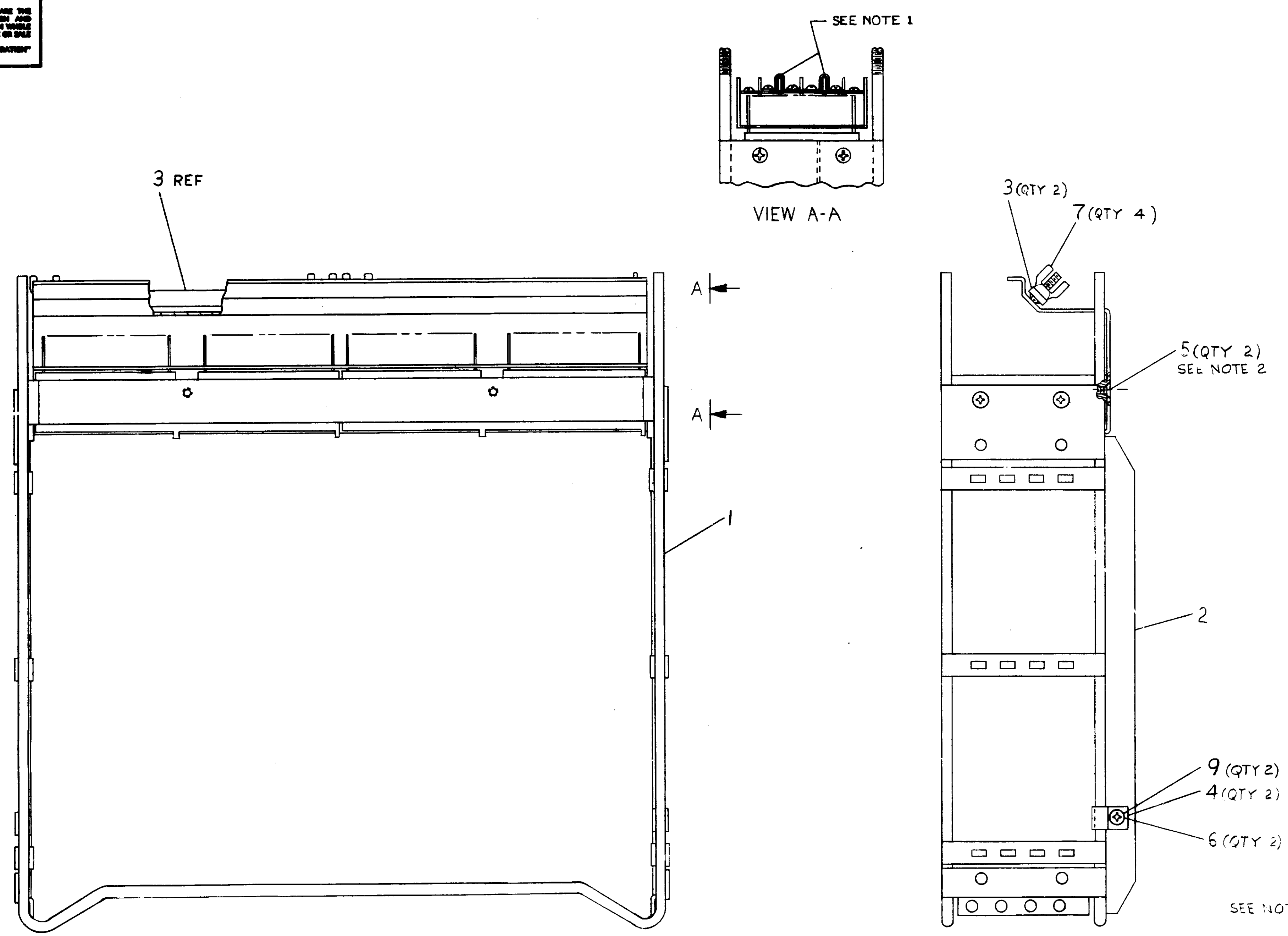
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY (H927Ø-A)	2 OF 2	B	DD	H927Ø-A	D



NOTES:

1. BEFORE ASSEMBLING CABLE THROUGH (7413849) TO H9270-0-0, REMOVE JUMPERS (9007589), QUANTITY 2, FROM TERMINAL BLOCK, REPLACE SCREWS TO TEMINAL BLOCK.
2. MANUFACTURING HAS THE OPTION TO USE 100° FLAT HEAL SCREW NO. 9008404-2 PLUS THREAD LOCKING COMPOUND NO. 9009321 IN PLACE OF SCREW CALLED FOR.

QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
2	WASHER, LOCK, SPLIT #6	9007801-00	9
~~1~~	~~PACKAGING INSTRUCTIONS H9270~~	~~A-SP-3700206-0-0~~	~~8~~
4	NUT, WING #6-32	9009711	7
2	SCR, PHL. PAN HD. #6-32 X .25	9006020-1	6
SEE NOTE 2 → 2	SCR, PHL FLAT HD 100° CSK #6-32 X .31	9009730	5
2	CLAMP	C-MD-7416425-0-0	4
2	BAR, CABLE STRAIN RELIEF	B-MD-7413846-0-0	3
1	TROUGH, CABLE	D-IA-7413849-0-0	2
1	UNIT ASSY H9270	E-UA-H9270-0-0	1

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM	±.004	±.008	±.012	±.018	±.024	±.04
	PREFERRED	±.012	±.016	±.025	±.04	±.063	±0.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN.	J. Blodgett	5-2-75
CHK'D	D. [illegible]	7/1/75
ENG.	R. Gough	6/24/75
PROJ. ENG.	R. Gough	7/31/75
PROD.	Wayne Rett	7/14/75

NEXT HIGHER ASSY. B-DD-H9270-A

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON 11/03

digital

TITLE

FRAME ASSY

SIZE	CODE	NUMBER	REV.
D	UA	H9270-A-0	F

DIST.

REVISION

CHK	CHANGE NO.	REV.		
FB	H9270-A-00001	A	J. BIRO	25 JAN 75
EB	H9270-A-00002	B	A. ADAMS	2-6-76
EB	H9270-A-00003	C	M.E. LEWANDOWSKI	20 MAY 76
JC	H9270-A-00004	D	P. PORRECA	9 JULY 76
JC	H9270-A-00005	E	D. BENNETT	25 MAR 77
JC	H9270-A-00006	F	P. PORRECA	2 AUG 77

FORM NO. 100-C

D UA H9270-A-0 F

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE	
DRAWING DIRECTORY	B-DD-H927Ø-Ø
UNIT ASSY H927Ø	E-UA-H927Ø-Ø-Ø
BACKPLANE ASSY	D-AD-7011145-0-0
CIRCUIT SCHEMATIC	D-CS-5411648-0-1
AWT ETCH LIST	K-WL-7011145-0-1
(COMPLETE LIST)	

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1			
H927Ø-Ø	DRAWING DIRECTORY	X			

REVISIONS

REV	CHG. NO.	DATE
A	H927Ø-1	7-75
B	H927Ø-2	1-76
C	H927Ø-3	23-76
D	H927Ø-4	3-76
E	H927Ø-5	5-76
F	H927Ø-6	7-76
H	H927Ø-7	2-77
J	H927Ø-8	6-77

USED ON OPTION/MODEL	
11/03	
SHEET 1	OF 3

		DATE
DRN.	R. RILEY	5/5/75
CHK'D.	D. HEALY	5/5/75
PROJ ENG.	[illegible]	7-1-75
PROD.	[illegible]	7-8-75
FIELD SERV.	[illegible]	7-8-75

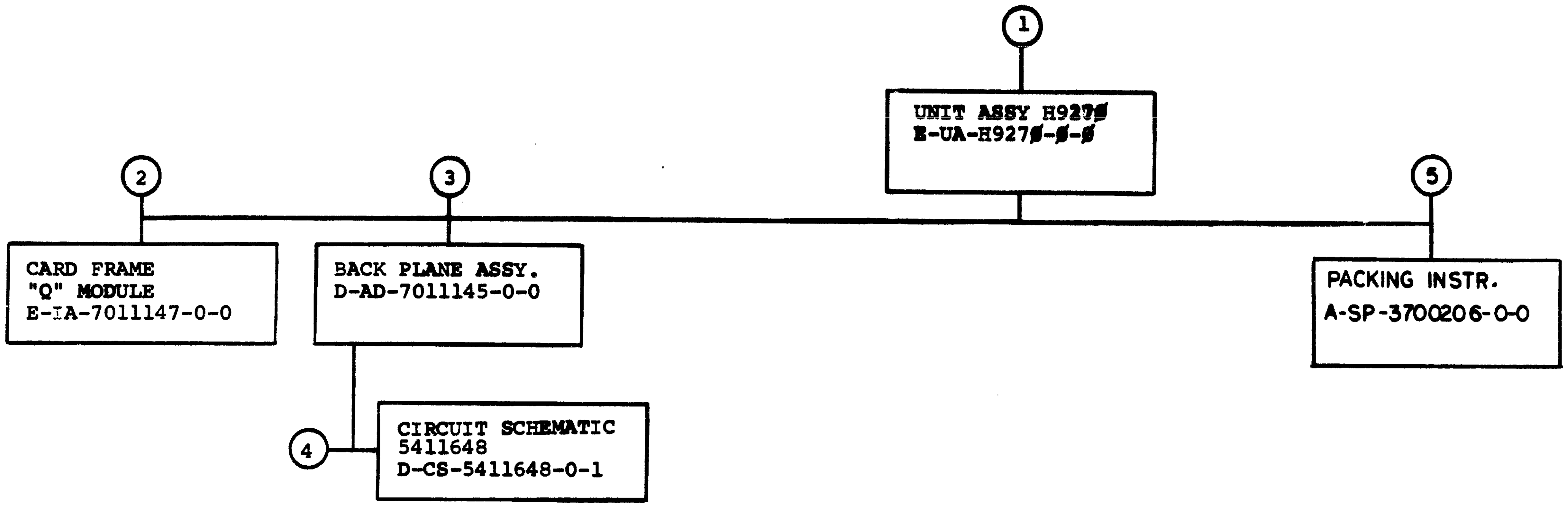
TITLE: DRAWING DIRECTORY H927Ø

SIZE	CODE	NUMBER	REV
B	DD	H927Ø-Ø	J

DIST

DEC 16-(321)-1062-1A-R072

DRB 106



TITLE		SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H927Ø	SHEET 2 OF 3	B	DD	H927Ø-Ø	J

DRB 107
DEC 16-(325)-1062-3-N871

ELECTRICAL

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-H927Ø-Ø-Ø	#	1	UNIT ASSY H927Ø	
			A-SP-H927Ø-Ø-1	#	13	ENGINEERING SPECIFICATION	
X		3	D-AD-7011145-0-0	#	1	BACK PLANE ASSY.	
			A-WT-7011145-0	#	1	AWT REV STATUS	
X			K-WL-7011145-0-1	#		AWT ETCH LIST	
X		4	D-CS-5411648-0-1	#		CIRCUIT SCHEMATIC	

MECHANICAL

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	E-UA-H927Ø-Ø-Ø	E	1	UNIT ASSY H927Ø	
			A-DC-7411881-0-0	#	1	AWT REV STATUS LABEL	
			A-DC-7414333-0-0	#	1	PWR. DISTRIBUTION DECAL	
			A-DC-7414311-0-0	#	1	SLOT NUMBERING DECAL	
			C-PS-1209856-03	#	3	MODULE HOLDER	
		2	E-IA-7011047-0-0	#	1	CARD FRAME "Q" MODULE	
			C-MD-7413971-0-0	#	1	BRKT. FRAME	
			C-MD-7413972-0-0	#	1	BRKT. EXTRACTOR	
			C-MD-7413973-0-0	#	1	BRKT. CARD GUIDE	
			C-MD-7413970-0-0	#	1	FRAME	
		3	D-AD-7011145-0-0	#	1	BACK PLANE ASSY.	
			C-MD-7413493-0-0	#	1	FRAME, BACK PLANE	
		4	D-CS-5411648-0-1	#		CIRCUIT SCHEMATIC	
			K-CO-5411648-0-4	#		X-Y COORD. HOLE LOCATION	
			D-AH-5411648-0-5	#		ASSY/DRILLING HOLE LAYOUT	
			B-MH-5411648-0-6	#		MODULE ECO HISTORY	
			5011647	#		ETCH BOARD	
			D-MD-5011647-0-0	#		MECHANICAL DIMENSIONS	
		5	A-SP-3700206-00			PACKING INSTRUCTIONS (REF)	
			9905788			DIE CUT CARTON	

CUSTOMER PRINT SET CODES

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TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H927Ø	SHEET 3 OF 3	B	DD	H927Ø-Ø	J

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

SEQUENCE	
DRAWING DIRECTORY H78Ø	B-DD-H78Ø-Ø
POWER SUPPLY ASSY H78Ø	E-UA-H78Ø-Ø-Ø
POWER SUPPLY ASSY H78Ø	C-PL-H78Ø-Ø-Ø
CABLE, LOGIC	D-IA-7011411-0-0
CABLE, DC OUTPUT	D-IA-7011584-0-0
HARNESS, INPUT	D-IA-7011658-0-0
CABLE, KEYBOARD	D-IA-7008612-0-0
CIRCUIT SCHEMATIC H78Ø P.S.	D-CS-5411776-0-1
CIRCUIT SCHEMATIC LIGHT & SW BD	D-CS-5411808-0-1
CIRCUIT SCHEMATIC/SLAVE BD.	D-CS-5412143-0-1

UNIT VARIATIONS

VAR	TITLE	PRINT SET 1			
H78Ø-A	11/03 P.S./CNSL.,115V	X			
H78Ø-B	H78Ø-A 230V	X			
H78Ø-Ø	P.S.ASSY (NO LINE CORD)115V/230V	X			
H78Ø-C	H78Ø/NO CNSL NO LINE CORD	X			
H78Ø-E	SLAVE CON./115V LINE CORD	X			
H78Ø-F	SLAVE CON./230V LINE CORD	X			
H78Ø-D	NO CONSOLE/230V/NO LINE CORD	X			
H78Ø-H	MASTER CONSOLE/115V NO LINE CORD	X			
H78Ø-J	MASTER CONSOLE/230V NO LINE CORD	X			
H78Ø-K	SLAVE CON./115V NO LINE CORD	X			
H78Ø-L	SLAVE CON./230V NO LINE CORD	X			
H78Ø-M	NO CONSOLE/115 NO FANS OR LINE CORD	X			
H78Ø-N	NO CONSOLE/23ØV NO FANS OR LINE CORD	X			

REVISIONS

DATE	CHG. NO.	REV
12 76	H78Ø-5	E
REVISED & RETYPED		
3-77	H78Ø-6	F
5-77	H78Ø-7	H
6-77	H78Ø-8	J

EN-01062-1A-16-R972-(325)

DRB 106

USED ON OPTION/MODEL	
11/Ø3	

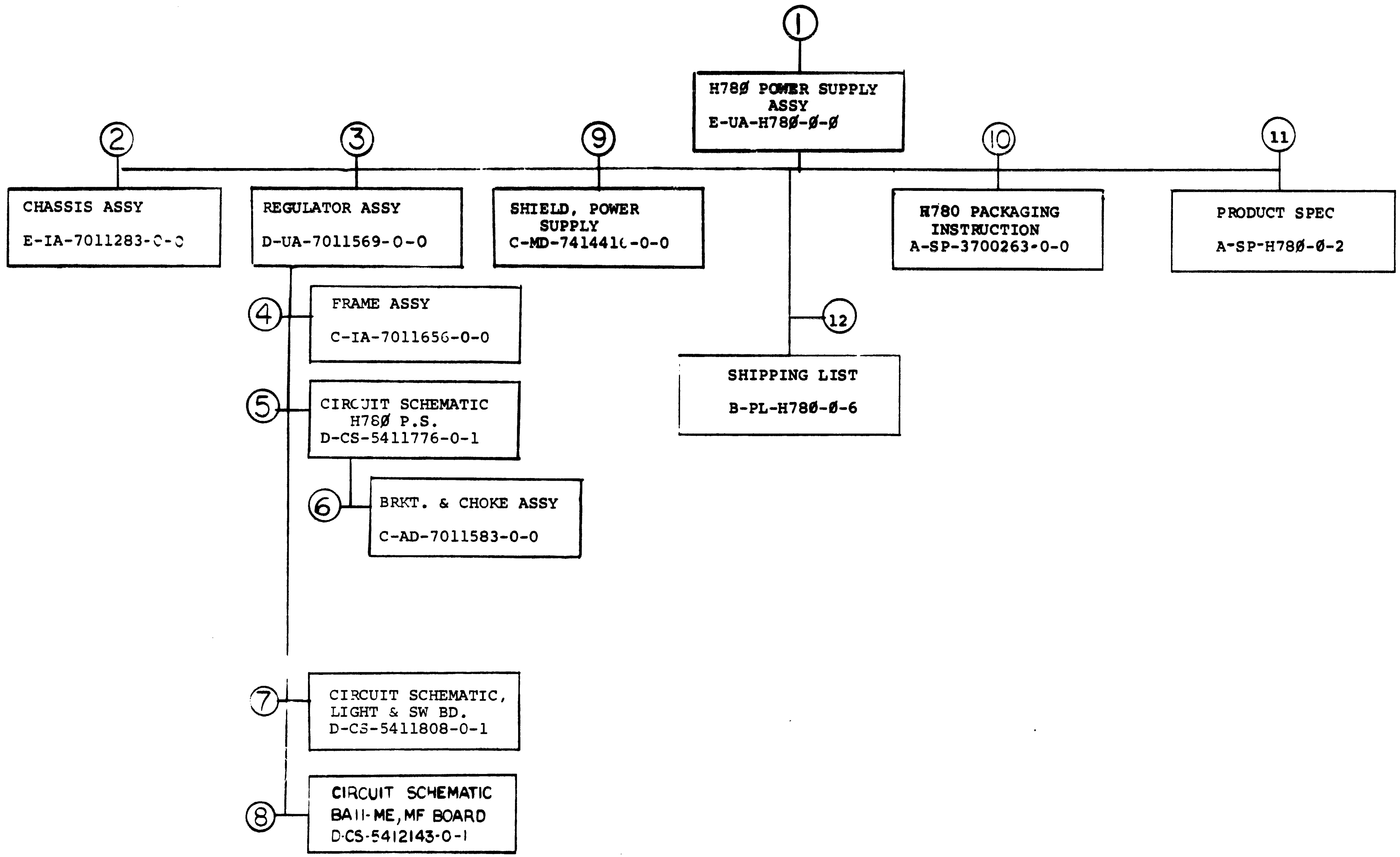
SHEET 1 OF 4

		DATE
DRN.	M. BAPTISTE	8/4/75
CHK'D.	D. HEALY	9/9/75
PROJ ENG.	R. MARTEL	10/17/75
PROD.	D. DEROME	10/17/75
FIELD SERV.	J. CARLSON	10/17/75

TITLE: DRAWING DIRECTORY H78Ø

SIZE	CODE	NUMBER	REV
B	DD	H78Ø-Ø	J

DIST



TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H780	2 OF 4	B	DD	H78Ø-Ø	J

DRB 107
DEC 16-(325)-1062-3-N871

ELECTRICAL (SECTION 1)

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X		1	E-UA-H78Ø-Ø-Ø	J	2	POWER SUPPLY ASSY H78Ø	
X			C-PL-H78Ø-Ø-Ø	J	2	POWER SUPPLY ASSY H78Ø	
X		5	D-CS-5411776-0-1		5	CIRCUIT SCHEMATIC H78Ø P.S.	
X		7	D-CS-5411808-0-1		2	CIRCUIT SCHEMATIC LIGHT & SW BD.	
X		8	D-CS-5412143-Ø-1		2	CIRCUIT SCHEM SLAVE BD.	
		11	A-SP-H78Ø-Ø-2		15	PRODUCT SPECIFICATION	

MECHANICAL (SECTION 2)

CUSTOMER PRINT SET 1	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
		1	E-UA-H78Ø-Ø-Ø	J	2	POWER SUPPLY ASSY H78Ø	
X			D-IA-7011411-Ø-Ø		1	CABLE, LOGIC	
X			D-IA-7011584-Ø-Ø		1	CABLE, DC OUTPUT	
			D-IA-7011733-Ø-Ø		1	HARNESS, FAN	
X			D-IA-7011658-Ø-Ø		1	HARNESS, INPUT	
			C-IA-7011667-Ø-Ø		1	TRANS ASSY	
			B-MD-7414712-0-0		1	SHIELD, UL	
			B-IA-7414691-0-0		1	JUMPER	
			C-IA-7011668-0-0		1	FILTER	
X			D-IA-7008612-0-0		1	CABLE, KEYBOARD	
			C-PL-H78Ø-Ø-Ø	J	2	POWER SUPPLY ASSY H78Ø	
		2	E-IA-7011283-0-0		1	CHASSIS ASSY	
			B-MD-7414149-0-0		1	ROD, CENTER SUPPORT	
			B-MD-7414148-0-0		1	ROD, MAIN SUPPORT, FRONT	
			B-MD-7414147-0-0		1	ROD, CAP SUPPORT	
			B-MD-7414100-0-0		1	SUPPORT, FAN	
			B-MD-7414099-0-0		1	ROD, SIDE SUPPORT	
			B-MD-7414146-0-0		1	SUPPORT, FAN & CONTROL PANEL	
			B-MD-7414145-0-0		1	SUPPORT, CONN. PANEL	
			B-MD-7414098-0-0		1	GUIDE, CARD REAR	
			B-MD-7414097-0-0		1	GUIDE, CARD MIDDLE	
			B-MD-7414096-0-0		1	ROD, GUIDE	
			B-MD-7414095-0-0		1	ROD, BOTTOM SIDE, REAR	
			B-IA-7414205-0-0		1	BRKT. REAR FAN P.S. SUPPORT	
			B-MD-7414094-0-0		1	ROD, MIDDLE GUIDE	
			C-MD-7414093-0-0		1	BRKT. INPUT	
			B-MD-7414092-0-0		1	ROD, MAIN SUPPORT, MDI. & REAR	
			B-IA-7414204-0-0		1	SUPPORT STRAP, CAP, REAR	
			B-MD-7414091-0-0		1	SUPPORT STRAP, CAP, FRONT	
			B-IA-7414710-0-0		1	BRKT, FILTER	
		3	D-AD-7011569-0-0		1	REGULATOR ASSY	

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H78Ø	3 OF 4	B	DD	H78Ø-Ø	J

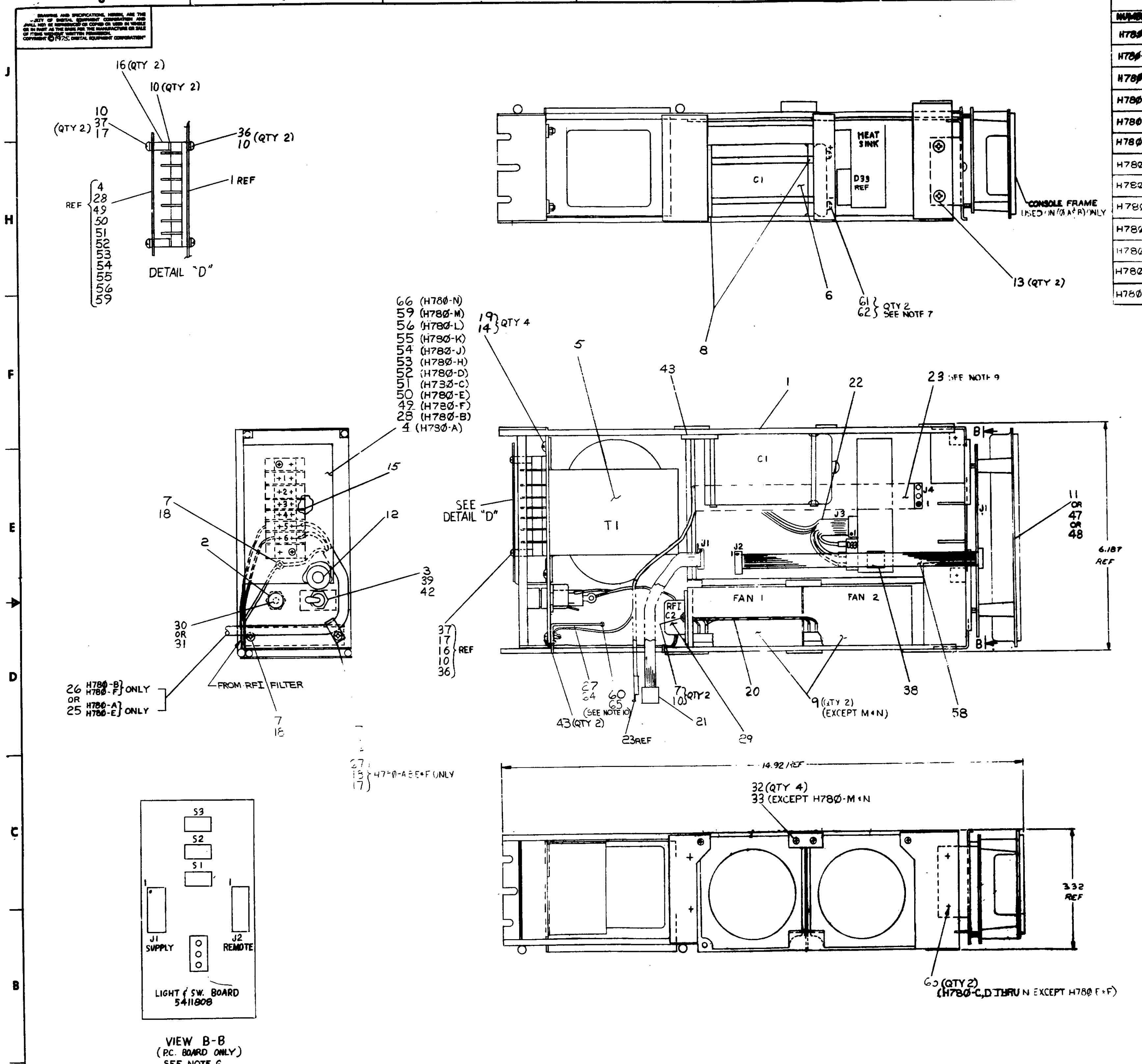
CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			MECHANICAL (SECTION 2)				
		4	C-IA-7011656-0-0		1	FRAME ASSY	
			D-MD-7414504-0-0		1	FRAME MODIFICATION	
			D-MD-7411744-0-0		1	WINDOW	
			C-IA-7008612-0-0		1	CABLE, (LOGIC BD. TO SW BD.)	
		5	D-CS-5411776-0-1		5	CIRCUIT SCHEMATIC H780 P.S.	
			D-AH-5411776-0-5			ASSY DRILL HOLE LAYOUT	
			B-MH-5411776-0-6			MODULE ECO HISTORY	
			5011775			ETCH CIRCUIT BOARD	
		6	C-AD-7011583-0-0		1	BRKT. & CHOKE ASSY	
			E-IA-7414323-0-0		1	BRKT., CHOKE SUPPORT	
		7	D-CS-5411808-0-1		2	CIRCUIT SCHEM. LIGHT & SW BD.	
			K-CO-5411808-0-4			X-Y COORDINATE HOLE LOCATION	
			D-AH-5411808-0-5			ASSY/DRILLING HOLE LAYOUT	
			B-MH-5411808-0-6			MODULE ECO HISTORY	
			5011807			ETCH CIRCUIT BOARD	
		8	D-CS-5412143-0-1		2	CIRCUIT SCHEMATIC BA11-ME,MF BD.	
			K-CO-5412143-0-4			X-Y COORD. HOLE LOC.	
			D-AH-5412143-0-5			ASSY. DRILL. HOLE LAYOUT	
			B-MH-5412143-0-6			MODULE ECO HISTORY	
			5012142			ETCH CIRCUIT BOARD	
		9	C-MD-7414416-0-0		1	SHIELD, POWER SUPPLY	
			A-SS-7414416-0-1		1	SILK SCREEN 115V	
			A-SS-7414416-0-2		1	SILK SCREEN 230V	

CUSTOMER PRINT SET	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
			MECHANICAL (SECTION 2)				
		10	A-SP-3700263-0-0	-	2	PACKAGING INSTRUCTIONS	
			C-MD-7417466-0-0	-	1	SHIPPING BRKT	
			A-PS-9905044-0-0	-	1	CUSHION SHIPPING	
			A-PS-9905966-0-0	-	1	CARTON OUTER	
			A-PS-9905967-0-0	-	1	LAMINATED BUILDUP	
		11	A-SP-H780-Ø-2		15	PRODUCT SPECIFICATION	
		12	B-PL-H780-Ø-6		1	SHIPPING LIST. H78Ø	

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

TITLE	SHEET	SIZE	CODE	NUMBER	REV
DRAWING DIRECTORY H78Ø	SHEET 4 OF 4	B	DD	H78Ø-Ø	J

DRB 108



LEGEND	
NUMBER	VARIATION
H780-Ø	H780 W/NO LINE CORD 115V/230V
H780-A	H780 MASTER CONSOLE LINE CORD 115V
H780-B	H780 WITH MASTER CONSOLE 230V LINE CORD
H780-C	H780 /NO CNSL. & NO LINE CORD
H780-E	H780 115V SLAVE CONSOLE LINE CORD
H780-F	H780 230V SLAVE CONSOLE LINE CORD
H780-D	H780 230V/NO CNSL. & NO LINE CORD
H780-H	H780 115V MASTER CONSOLE NO LINE CORD
H780-J	H780 230V MASTER CONSOLE NO LINE CORD
H780-K	H780 115V SLAVE CONSOLE NO LINE CORD
H780-L	H780 230V SLAVE CONSOLE NO LINE CORD
H780-M	H780 115V NO CONSOLE NO FANS, NO LINE CORD
H780-N	H780 230V NO CONSOLE NO FANS, NO LINE CORD

NOTES:

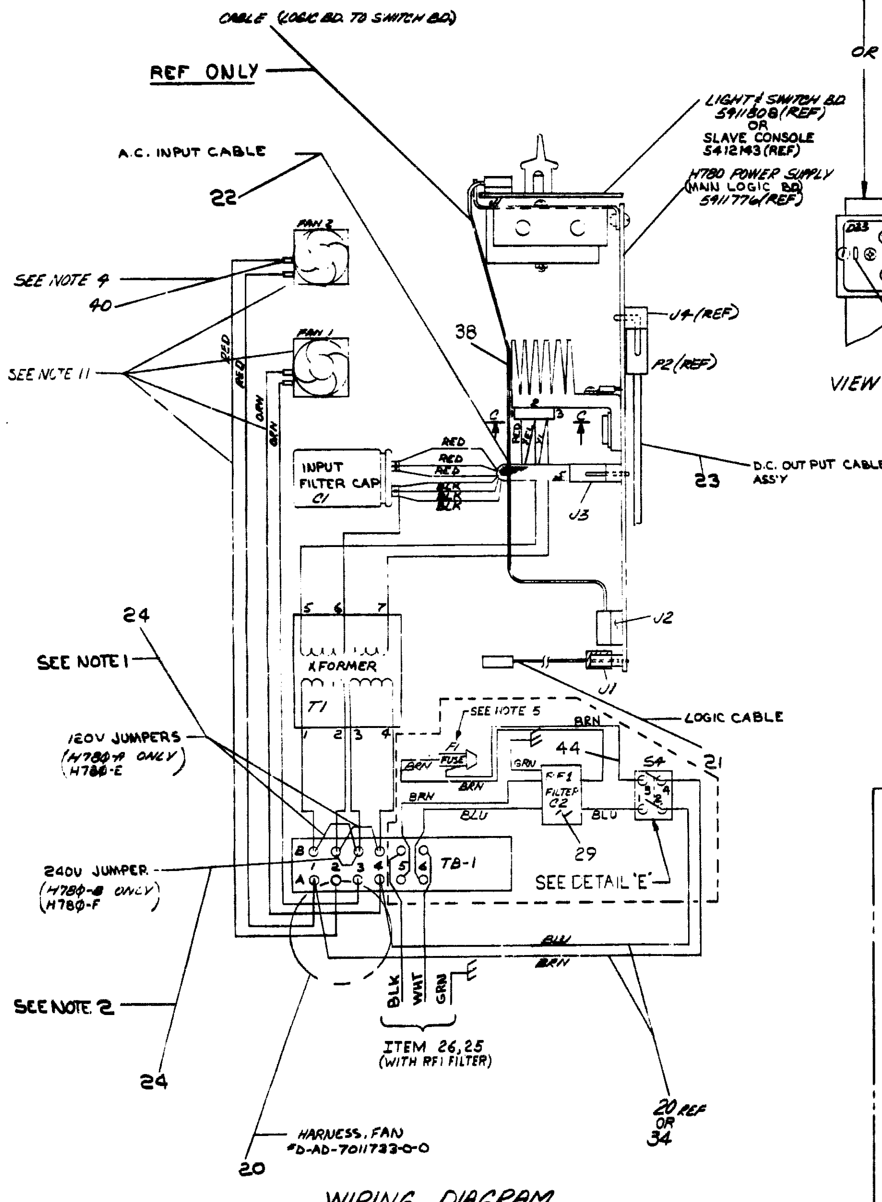
1. FOR 120V: 2 JUMPERS, ITEM #24, 5 AMP FUSE, ITEM #30, SHIELD (120V) ITEM #4, AND POWER CORD, ITEM #25 ARE REQUIRED TO BE INSTALLED PER THIS DRAWING.
2. FOR 240V: 1 JUMPER ITEM #24, 2.5 AMP FUSE, ITEM #31, SHIELD (240V) ITEM #28 AND POWER CORD, ITEM #26 ARE REQUIRED TO BE INSTALLED PER THIS DRAWING.
3. FOR WIRING DIAGRAM SEE SHEET 2.
4. SLIP ITEM #40 OVER FAN WIRES BEFORE SOLDERING & SLIP SHRINK TUBING OVER SOLDER CONN & SHRINK IN PLACE-4 PLACES. ANY COLOR SHRINK OK.
5. SLIP 1 INCH OF ITEM #41 (ANY COLOR) OVER CONNECTING WIRES BEFORE SOLDERING TO FUSE HOLDER. AFTER TERMINATION IS COMPLETE, SLIP TUBING OVER JOINT AND SHRINK.
6. VIEW B-B WHICH IS PART OF ITEM #11 IS SAME FOR ITEM 47 EXCEPT THERE ARE NO SWITCHES IN THIS ASSY. DISREGARD VIEW B-B FOR H780-C VARIATION.
7. REPLACE HARDWARE FURNISHED WITH CAP (IF ANY) BY ITEMS 61 & 62.
8. USE FLAT WASHER (ITEM 17) AS BEARING SURFACE ON CABLE CLAMP FOR POWER CORD, AT TOP OF UL SHIELD (ITEM 35)
9. CONNECT GROUND LUG FROM ITEM 23 UNDER KEP NUT ITEM 18 HOLDING THE BOTTOM OF THE UL SHIELD
10. USE ADHESIVE, PERMA BOND 240 OR EQUIVALENT, TO SECURE ITEM 60.
11. FOR OPTIONS M & N NO FANS (ITEM 9) ARE USED. ALSO FAN HARNESS (ITEM 20) IS REPLACED BY MODIFIED FAN HARNESS (ITEM 34).

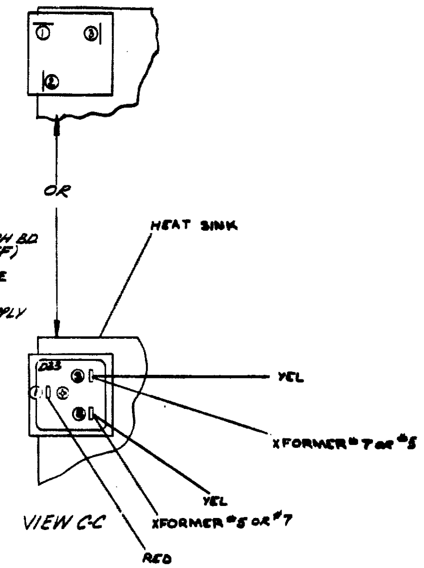
SEE C-PL-H780-Ø-Ø FOR PARTS LIST

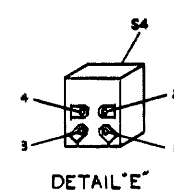
POWER, SUPPLY ASSY H780

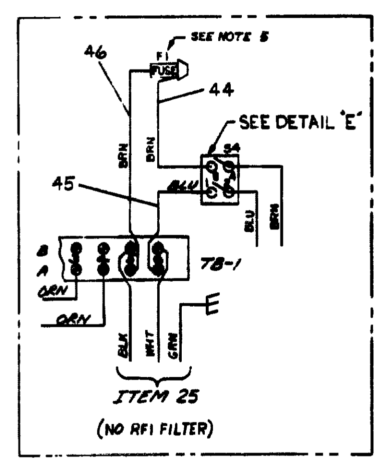
H780-Ø-Ø

[redacted]









TITLE	SIZE	CODE	NUMBER	REV.
POWER SUPPLY ASSY H780	E	UA	H780-0-0	JK

Item No.	Dwg./Part No.	Description	H780Ø	H780-A	H780-B	H780-C	H780-E	H780-F	H780-D	H780-H	H780-J	H780-K	H780-L	H780-M	H780-N
1	E-IA-7011283-0-0	Chassis, Assy, Power Supply	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1211348-00	Fuse Holder 20A, 250V	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1204722	Toglle Switch D.P.S.T.	1	1	1	1	1	1	1	1	1	1	1	1	1
4	C-IA-7414416-0	Shield P.S. (H780A)	-	1	-	-	-	-	-	-	-	-	-	-	-
5	C-IA-7011667-0-0	Transformer Assy	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1009966	Capacitor, 19,000 MFD, 40V	1	1	1	1	1	1	1	1	1	1	1	1	1
7	9006022-1	Screw Phl Hd Pan #6-32x.38	3	2	4	3	2	4	5	3	5	3	5	3	5
8	9009617	Tie Cable .19W x 11.0	2	2	2	2	2	2	2	2	2	2	2	2	2
9	1210719	Fan, Boxer 35 CFM 115V	2	2	2	2	2	2	2	2	2	2	2	-	-
10	9006633	Washer, Int. Tooth #6	4	6	8	6	6	8	8	6	8	6	8	6	8
11	D-AD-7011569-0-0	Regulator Assy	1	1	1	-	-	-	-	1	1	-	-	-	-
12	9007016	Gromet Rubber .50 I.D.	1	1	1	1	1	1	1	1	1	1	1	1	1
13	9000039-01	Screw FL. Hd. #8-32 x .25 x 100	2	2	2	2	2	2	2	2	2	2	2	2	2
14	9006565	Nut, Kep 10-32	4	4	4	4	4	4	4	4	4	4	4	4	4
15	9006905	Terminal Block 6 Pos.	1	1	1	1	1	1	1	1	1	1	1	1	1
16	9006844	Spacer Threaded #6-32 x 3/8	2	2	2	2	2	2	2	2	2	2	2	2	2
17	9006653	Washer, Flat .156 ID x .380.D.	-	3	3	2	3	3	2	2	2	2	2	2	2
18	9006560	Nut, Kep #6-32	3	3	3	3	3	3	3	3	3	3	3	3	3
19	9006071-3	Scr. Ph. Hd Truss #10-32 x .38	4	4	4	4	4	4	4	4	4	4	4	4	4
20	D-IA-7011733-0-0	Harness, Fan	1	1	1	1	1	1	1	1	1	1	1	-	-
21	C-IA-7011411-ØK-0	Cable, Logic	1	1	1	1	1	1	1	1	1	1	1	1	1
22	D-IA-7011658-0-0	Harness, Input	1	1	1	1	1	1	1	1	1	1	1	1	1
23	D-IA-7011584-0-0	Cable, DC Output	1	1	1	1	1	1	1	1	1	1	1	1	1
24	B-IA-7414691-0-0	Jumper	-	2	1	2	2	1	1	2	1	2	1	2	1
25	C-IA-7012075-1-0	Cable, Input Power 115V	-	1	-	-	1	-	-	-	-	-	-	-	-
26	C-IA-7012075-0-0	Cable, Input Power 240V	-	-	1	-	-	1	-	-	-	-	-	-	-
27	B-MD-7414712-0-0	Shield, U.L.	1	1	1	1	1	1	1	1	1	1	1	1	1
28	C-IA-7414416-1	Shield P.S. (H780 B)	-	-	1	-	-	-	-	-	-	-	-	-	-
29	C-IA-7011668-0-0	Filter	-	-	1	-	-	1	1	-	1	-	1	-	1
30	9007221	Fuse 5 Amp 250V	-	1	-	1	1	-	-	1	-	1	-	1	-
31	9008387	Fuse 2.5 Amp 250V	-	-	1	-	-	1	1	-	1	-	1	-	1
32	9006011-2	Scr. Ph. 82° FL. Hd #4-40 x .38	4	4	4	4	4	4	4	4	4	4	4	-	-
33	9006557	Nut, Kep #4-40	4	4	4	4	4	4	4	4	4	4	4	-	-
34	D-IA-7011733-01	HARNESS, FAN (MODIFIED)	-	-	-	-	-	-	-	-	-	-	-	1	1
35	9007082	Clamp .31 I.D.	-	1	1	-	1	1	-	-	-	-	-	-	-
36	9006025-1	Scr. Ph. Hd. Pan #6-32 x .62	2	2	2	2	2	2	2	2	2	2	2	2	2
37	9006020-1	Scr. Ph. Hd. Pan #6-32 x .25	-	2	2	2	2	2	2	2	2	2	2	2	2
38	9007834-00	Tape Double Sided	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
39	9009314-01	LabEL Switch (On-Off)	1	1	1	1	1	1	1	1	1	1	1	1	1
40	9107305	Tubing, Shrink	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
41	91-07253	Tube, Shrink	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
42	9009782-00	Ring Locking	1	1	1	1	1	1	1	1	1	1	1	1	1
43	9007880	Cable Tie	1	1	3	1	1	3	-	1	-	1	-	1	1

REVISIONS

REV.	CHANGE NO.		
D	H780-00004	ORIGINATED	
E	H780-00005	J.BIRO	20 Dec 76
F	H780-00006	F. KEARNS	16-MAR-77, 23 Mar 77
H	H780-00007	F. KEARNS	9 May 77, 23 MAY 77
J	H780-00008	D. BENNETT	28 June 77, 29 JUN 77
K	H780-00009	M. QUADRI	6 Sept. 77, 8 Sept 77

DEC FORM NO. DRC 110 A

DRN.	M. Baptiste	6/27/75
CHK'D	D. Healy	9/3/75
ENG.	R. Martel	9/17/75
PROJ. ENG.	M. Koulopoulos	9/17/75
PROD.	D. DeRome	9/17/75

FIRST USED ON 11/03

digital

TITLE Power Supply Assy H780

NEXT HIGHER ASSY. E-UA-BA11-M-Ø

SCALE None

SHEET 1 OF 2

SIZE	CODE	NUMBER	REV.
C	PL	H780-Ø-Ø	K

DIST.

Item No.	Dwg./Part No.	Description	H780-∅	H78∅-A	H78∅-B	H78∅-C	H78∅-E	H78∅-F	H78∅-D	H78∅-H	H78∅-J	H78∅-K	H78∅-L	H78∅-M	H78∅-N
44	B-IA-7415282-0-0	Jumper, Fuse -SW	1	1	1	1	1	1	1	1	1	1	1	1	1
45	B-IA-7415281-0-0	Jumper, TB-SW	1	1	-	1	1	-	-	1	-	1	-	1	1
46	B-IA-7415283-0-0	Jumper, TB-Fuse	1	1	-	1	1	-	-	1	-	1	-	1	1
47	D-AD-7011569-1-0	Regulator Assy	-	-	-	-	1	1	-	-	-	1	1	-	-
48	D-AD-7011569-2-0	Regulator Assy	-	-	-	1	-	-	1	-	-	-	-	1	1
49	C-IA-7414416-3	Shield, PS, H78∅F	-	-	-	-	-	1	-	-	-	-	-	-	-
50	C-IA-7414416-2	Shield, PS, H78∅E	-	-	-	-	1	-	-	-	-	-	-	-	-
51	C-IA-7414416-4	Shield, PS, H78∅C	-	-	-	1	-	-	-	-	-	-	-	-	-
52	C-IA-7414416-5	Shield, PS, H78∅D	-	-	-	-	-	-	1	-	-	-	-	-	-
53	C-IA-7414416-6	Shield, PS, H78∅H	-	-	-	-	-	-	-	1	-	-	-	-	-
54	C-IA-7414416-7	Shield, PS, H78∅J	-	-	-	-	-	-	-	-	1	-	-	-	-
55	C-IA-7414416-8	Shield, PS, H78∅K	-	-	-	-	-	-	-	-	-	1	-	-	-
56	C-IA-7414416-9	Shield, PS, H78∅L	-	-	-	-	-	-	-	-	-	-	1	-	-
57	A-SP-3700263-01	Packaging Instructions	-	-	-	1	-	-	1	1	1	1	1	1	1
58	7008612-OM	Cable, Console	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
59	C-IA-7414416-10	Shield, PS, H78∅M	-	-	-	-	-	-	-	-	-	-	-	1	-
60	9007035	Grommet, Caterpillar 2.75 in	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
61	9006635-00	Washer, Int. #10	2	2	2	2	2	2	2	2	2	2	2	2	2
62	9009669-01	Scr., Pan SLOTTED 10-32 X 5/16	2	2	2	2	2	2	2	2	2	2	2	2	2
63	9006036-01	Scr., Pan Hd. PHIL. 8-32 X 5/16	-	-	-	2	-	-	2	2	2	2	2	2	2
64	9009255	Label, POWER SUPPLY	1	1	1	1	1	1	1	1	1	1	1	1	1
65	4901230	Perma Bond, Adhesive 240	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
66	C-IA-7414416-0-11	Shield, PS, H78∅N	-	-	-	-	-	-	-	-	-	-	-	-	1
67	9006024-1	SCREW, PHL. PAN HD. 6-32 X .50	-	1	1	-	1	1	-	-	-	-	-	-	-

REVISIONS — REV. | CHANGE NO. | CHK

DRN	M. Baptiste	6/27/75
CHK'D	D. Healy	9/3/75
ENG.	R. Martel	9/17/75
PROJ. ENG.	M. Kaliopoulos	9/17/75
PROD.	D. DeRome	9/17/75
NEXT HIGHER ASSY.	E-UA-BA11-M-∅	
SCALE	None	
SHEET	2	OF 2

FIRST USED ON 11/03

digital

TITLE Power Supply Assy H78∅

SIZE	CODE	NUMBER	REV.
C	PL	H78∅-∅-∅	K

DIST.

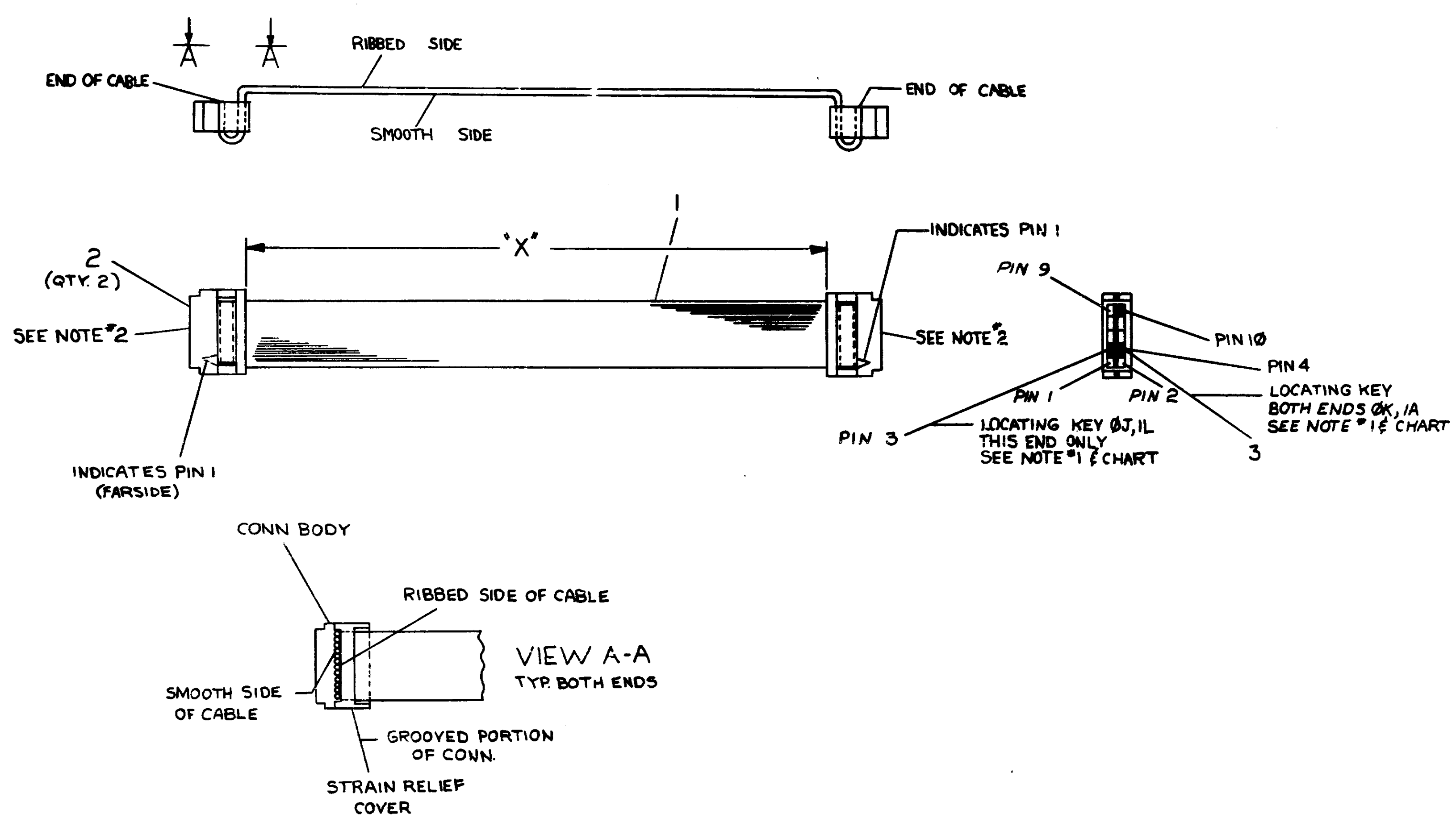
DEC FORM NO. DRC 110 A

LEGEND

NUMBER	DIM "X" VARIATION	USED ON	KEY PIN
7011411-ØJ	8 IN ±.5 IN.	BA11-L OR K	1C ONE END
7011411-ØK	9 IN ±.5 IN.	LSI-11	4 BOTH ENDS
7011411-1D	1 FT-4 IN ±1 IN.	KY11-LB	
7011411-2D	2 FT-4 IN ±1 IN.	BA11-F/DD #PF	10 ONE END
7011411-ØH	7 IN ± .5 IN.	H79Ø,1,2,3	
7011411-1J	1FT.-8IN ±1 IN.	11Ø4/34-TA	
7011411-1L	1FT. 10IN. ±1 IN.	BA11-L, H777	PIN 3 1 END
7011411-1A	1FT. -1 IN. ±1 IN.	H787	4 BOTH ENDS
7011411-3J	3FT.-8IN ±1 IN.	BA11-K, H785	
7011411-2J	2FT.-8IN ±.1 IN.	BA11K-H785	NO KEY
7011411-5F	5FT.-6IN ±1 IN.	1160	8 ONE END
7011411-12	12FT ± 3 IN.	KA57Ø	

NOTES:

1. INSERT KEY IN PROPER CONNECTOR PIN AND BREAK OFF TAB.
2. FOR ITEM (2) DRAWING IS SHOWING 3M CONNECTOR.



1	TIE, CABLE	9007031	5
1	LABEL, CABLE IDENT.	9009532	4
A/R	KEY	9009707	3
2	CONN. CRIMP	1211206-02	2
A/R	CABLE, 10 CONDUCT	9107747-02	1
QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.

7011411-0-0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM	☐	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED	☐	±.012	±.016	±.025	±.04	±.063	±0.1

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —

DRN	M. BAPTIST	5-20-75
CHK'D	D. HEALY	6-13-75
ENG.	R. BARRY	6-18-75
PROJ. ENG.	R. BARRY	6-18-75
PROD.	R. PETERSON	6-19-75

NEXT HIGHER ASSY. —

SCALE NONE

SHEET 1 OF 1

FIRST USED ON: SEE LEGEND

digital

TITLE: CABLE CONSOLE BACKPLANE

SIZE	CODE	NUMBER	REV.
D	IA	7011411-0-0	M

DIST.

REVISIONS

CHK	CHANGE NO.	REV.
	7011411-00011	M

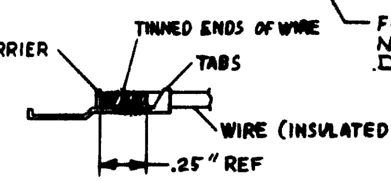
REDRAWN & REVISED
STEVE KITTLE 26 JULY 77
K. DUGGAN

FORM NO. 00-C

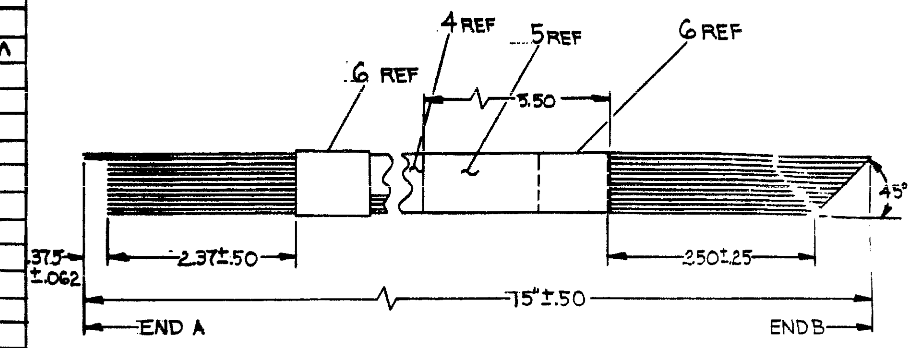
WIRE TABLE

ITEM NO	DESCRIPTION AWG	DESCRIPTION COLOR	FROM CONNECTION	FROM POINT	FROM TERM	TO CONNECTION	TO POINT	TO TERM
4	18	RED	TB-2	1	TWIST TOGETHER TIN & SOLDER	P1-1	24	3
		BRN		2		P1-2	23	
		BLK		3		P1-3	22	
		WHT	TB-3	4		P1-4	21	
		GRY		5		P1-5	20	
		VIO	TB-4	6		P1-6	19	
		BLU		7		P1-7	18	3
		GRN		8		——	17	7
		YEL	TB-5	9		P1-9	16	3
		ORN		10		P1-10	15	
		RED	TB-1	11		P1-11	14	
4	18	BRN	TB-5	12		P1-12	13	3

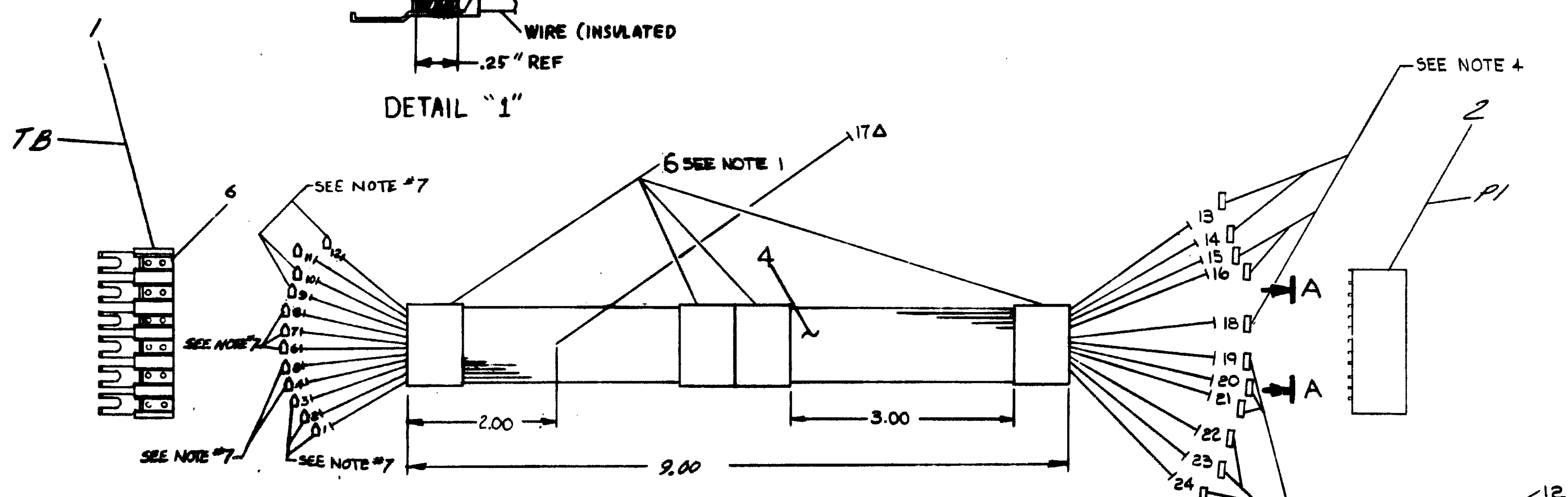
FOR GROUPING SEE NOTES 7 & 8 AND DETAIL #1

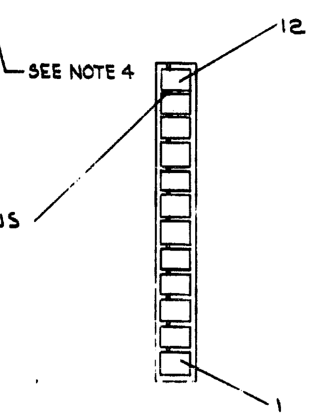


DETAIL "1"



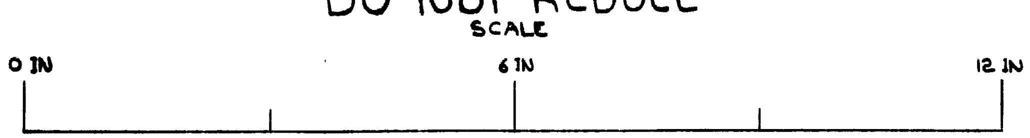
DETAIL "2"
SCALE: 1/1





VIEW A-A
WIRING SIDE
SCALE: 1/1

DO NOT REDUCE



FOR MANUFACTURING PURPOSES ONLY

NOTES:

1. CUT LENGTH OF ITEM 4 APPROXIMATELY 15" [illegible] ± 1/2" WRAP ONE WRAP OF TAPE, ITEM 6 IN FOUR PLACES AS [illegible] IN DETAIL 2
2. PEEL WIRES 13 THROUGH 24 APART DOWN TO TAPE.
3. PEEL WIRES 1 THROUGH 12 APART IN GROUPS OF 1, 2, OR 3, AS SHOWN DOWN TO TAPE.
4. FASTEN TO NAIL BOARD AND CUT TO PROPER LENGTHS 13 THRU 24 SHOULD BE CUT AT 45 ANGLE (SEE DETAIL 2)
5. STRIP AND CRIMP ITEM 3 TO WIRES 13 THROUGH 24 EXCEPT #17
6. PEEL WIRE #17 BACK TO 2" FROM TAPE. CUT TO PROPER LENGTH. (APPROXIMATELY 6" FROM BREAK OUT POINT.) STRIP 1/4" BACK AND CRIMP. ITEM 7
7. STRIP ENDS OF WIRES 1 THROUGH 12 1/4" TO 3/8" BACK AND TWIST END OF INDICATED GROUPS TOGETHER, (1, 2 & 3; 4 & 5; 6, 7 & 8; 9, 10, & 12) TIN ENDS.
8. PLACE TINNED ENDS ON FANNING STRIP. (ITEM 1) TO BARRIER (SEE DETAIL 1) AND SOLDER. (SEE WIRE TABLE FOR CONNECTIONS.) BEND TABS OVER WIRE TO PROVIDE GOOD STRAIN RELIEF. INSULATION SHOULD BE UNDER TABS.
9. PLACE WIRES 13 THROUGH 24 IN ITEM 2 AS INDICATED IN WIRE TABLE AND REFERENCEING VIEW AA.
10. CUT AND ASSEMBLE ITEM 5 TO CABLE AS SHOWN IN DETAIL "2".
11. BEND CABLE AT 6.2[illegible] [illegible]5 FROM OUTER EDGE OF P1 CONNECTOR. BEND TO [illegible] OPPOSITE FOAM TAPE (ITEM 5) SIDE OF CABLE.
12. PART NUMBER 12-12203-00 IS [illegible] ALTERNATE PART FOR ITEM *3, P/N 12-12203-01.
13. PART NUMBER 17-00057-00 IS AN ALTERNATE PART FOR ITEM *4, P/N 17-00126-00.

SYM	QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
	1	LABEL	9009532	9
	1	TIE WRAP	9007031	8
△	1	TERM, RING TONGUE	9007929-00	7
	A/R	TAPE, ELECTRIC, BLK PLASTIC	9009507	6
	A/R	TAPE, ADHESIVE BACK	9008379-00	5
19"	A/R	CABLE, 12 WIRE	1700126-00	4
▯	11	TERM, CRIMP	1212203-01	3
	1	CONN, HSG. 12 PIN	1212620-01	2
	1	CONN STRIP 6 LUG	1212698-00	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

QUANTITY & VARIATION

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: ——

DRN.	7/3/75
CHK'D	
ENG.	9/7/75
PROJ. ENG.	9/1/75
PROD.	
NEXT HIGHER ASSY.	E-UA-H780-0-0
SCALE	1/1
SHEET	1 OF 1

FIRST USED ON: 11/03

TITLE: CABLE, DC OUTPUT

SIZE	CODE	NUMBER	REV.
D	A	7011584-0-0	E

REVISIONS: A H780-00005; B H780-00006; C 7011584-00001; D 7011584-00002; E 7011584-00003

DEC FORM NO. DRD 100-C

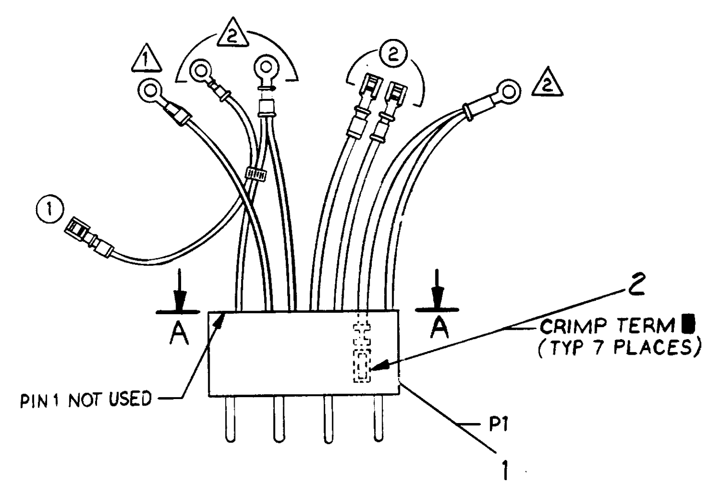
WIRE TABLE

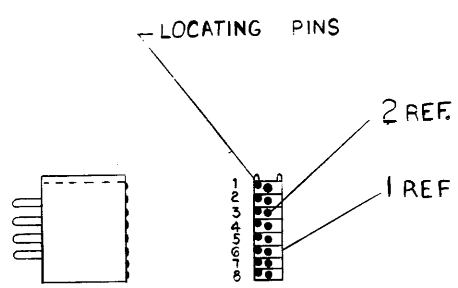
ITEM NO.	DESCRIPTION AWG	DESCRIPTION COLOR	FROM POINT	FROM CONNECTION	FROM WITH	TO POINT	TO CONNECTION	TO WITH	WIRE LENGTH
3	18	YEL		P1-6	ITEM*2		———	ITEM*11	3.0 IN
3		YEL		P1-5			———	ITEM*11	3.0 IN
4		BLK		P1-3			———	ITEM*10	4.0 IN
4		BLK		P1-8			———	ITEM*8	4.0 IN
4		BLK		P1-7			———		4.0 IN
5		RED		P1-4			———	ITEM*8	3.5 IN
5	18	RED		P1-2	ITEM*2		———		3.5 IN
6	14	RED		———	ITEM*7		———	ITEM*8	3.75 IN

SEE NOTE *1

SEE DETAIL "A" FOR P-1 PIN LOCATIONS

NOTES:
1. MAKE ALL CONNECTIONS USING WIRE TABLE AND PRECUT LENGTHS NOTED THERE.





VIEW A-A
SCALE: NONE
(P1, ITEM*1)

SYM	QTY	DESCRIPTION	DWG./PART NO.	ITEM NO.
	1	LABEL, IDENTIFICATION	9009532	12
2	2	TERM, QUICK CONN, (RED)	9007970	11
1	1	TERMINAL RING RED	9007930-00	10
X	2	TIE, CABLE	9007031	9
2	3	TERMINAL RING BLU	9007928-00	8
1	1	FASTON TAB BLU	9007969	7
	A/R	WIRE *14 AWG (RED)	9107370-22	6
	A/R	WIRE *18 AWG (RED)	9107360-22	5
	A/R	WIRE *18 AWG (BLK)	9107360-00	4
	A/R	WIRE *18 AWG (YEL)	9107360-44	3
■	7	TERMINAL CRIMP	1212203-00	2
	1	CONN, HSG 8 PIN	1212620-00	1

SEE WIRE CHART FOR WIRE LENGTHS

QUANTITY & VARIATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
SURFACE QUALITY IN MICROINCHES	MEDIUM	±.004	±.008	±.012	±.016	±.024	±.04
	PREFERRED	±.012	±.016	±.025	±.04	±.063	±0.1

NOMINAL DIMENSION RANGE INCHES

THIRD ANGLE PROJECTION

REMOVE BURRS AND BREAK SHARP CORNERS

DO NOT SCALE DWG

MATERIAL: SEE PARTS LIST

FINISH: —/—/—

DRN.	G. DRAYTON	7/22/75
CHK'D	D. HEALY	9/9/75
ENG.	R. MARTEL	9/9/75
PROJ. ENGR.	R. MARTEL	9/9/75
PROD.	... JEROME	9/9/75

NEXT HIGHER ASSY.: D UA-H780-0-0

SCALE 1/1

SHEET 1 OF 1

FIRST USED ON 11/03

digital

TITLE: HARNESS AC INPUT

SIZE	CODE	NUMBER	REV.
D	IA	7011658-0-0	B

DIST.

REVISIONS

CHK	CHANGE NO.	REV.
	7011658-00001 REVISED & REDRAWN R. Martel 29-OCT-75 R. MARTEL	A
	7011658-00002 7-APR-77 D. BENNETT D. Bennett 28 APR 77	B

DEC FORM NO. DRD 100-C

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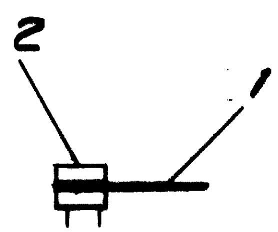
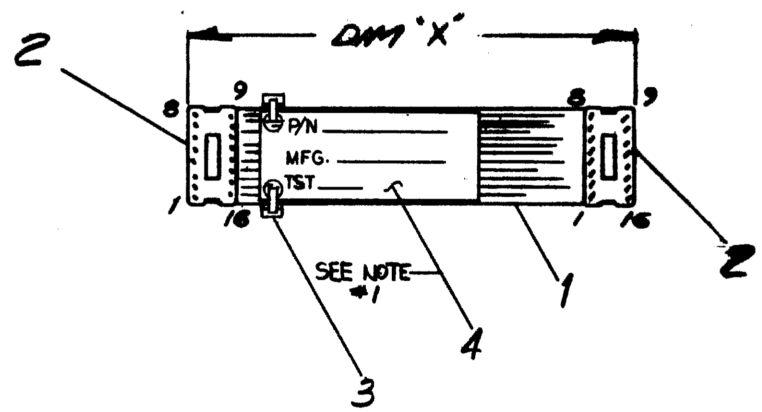
LEGEND

NUMBER	VARIATION
	DIM "X"
7008612-ØD	4 IN
7008612-1B	14 IN.
7008612-1F	18 IN.
7008612-Ø3	3 FT.
7008612-ØF	6 IN.
7008612-ØK	9 IN. ± 1 IN.
7008612-4A	49 IN. ± 1 IN.
7008612-ØM	11 IN
7008612-[illegible]	2 FT ± 1 IN.
7008612-6A	6 FT, 1 IN. ± 2 IN.
7008612-10	10 FT ± 2 IN.
7008612-1J	20 IN.
7008612-2D	2 FT. 4 IN. ± 1 IN.

NOTES:

1. PLACE LABEL, ITEM 4 AT ANY POSTION ALONG CABLE AS SHOWN.





1	LABEL, IDENTIFICATION	9009532-00	4
1	TIE, CABLE	9007031-00	3
2	SOCKET 16 CONTACTS	1210722	2
A/R	CABLE 28 AWG STRD 16 COND	9107738	1
QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

FIRST USED ON OPTION/MODEL: VT05

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES

DECIMALS	ANGLES
.XXX = .005 .XX = .02 .X = .1	±0° 30'

REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓

MATERIAL —

FINISH —

DRN.	[illegible]	DATE 10-1-71
CHK'D.	[illegible]	DATE 10-4-71
ENG.	K. [illegible]	DATE [illegible]
PROJ. ENG.	K. [illegible]	DATE [illegible]
PROD.	[illegible]	DATE [illegible]

NEXT HIGHER ASSY.

SCALE 1-1

SHEET 1 OF 1

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: CABLE, KEYBOARD

SIZE	CODE	NUMBER	REV.
C	IA	7008612-0-0	P

DIST.

SIZE C CODE IA NUMBER 7008612-C-C REV. F

REVISIONS

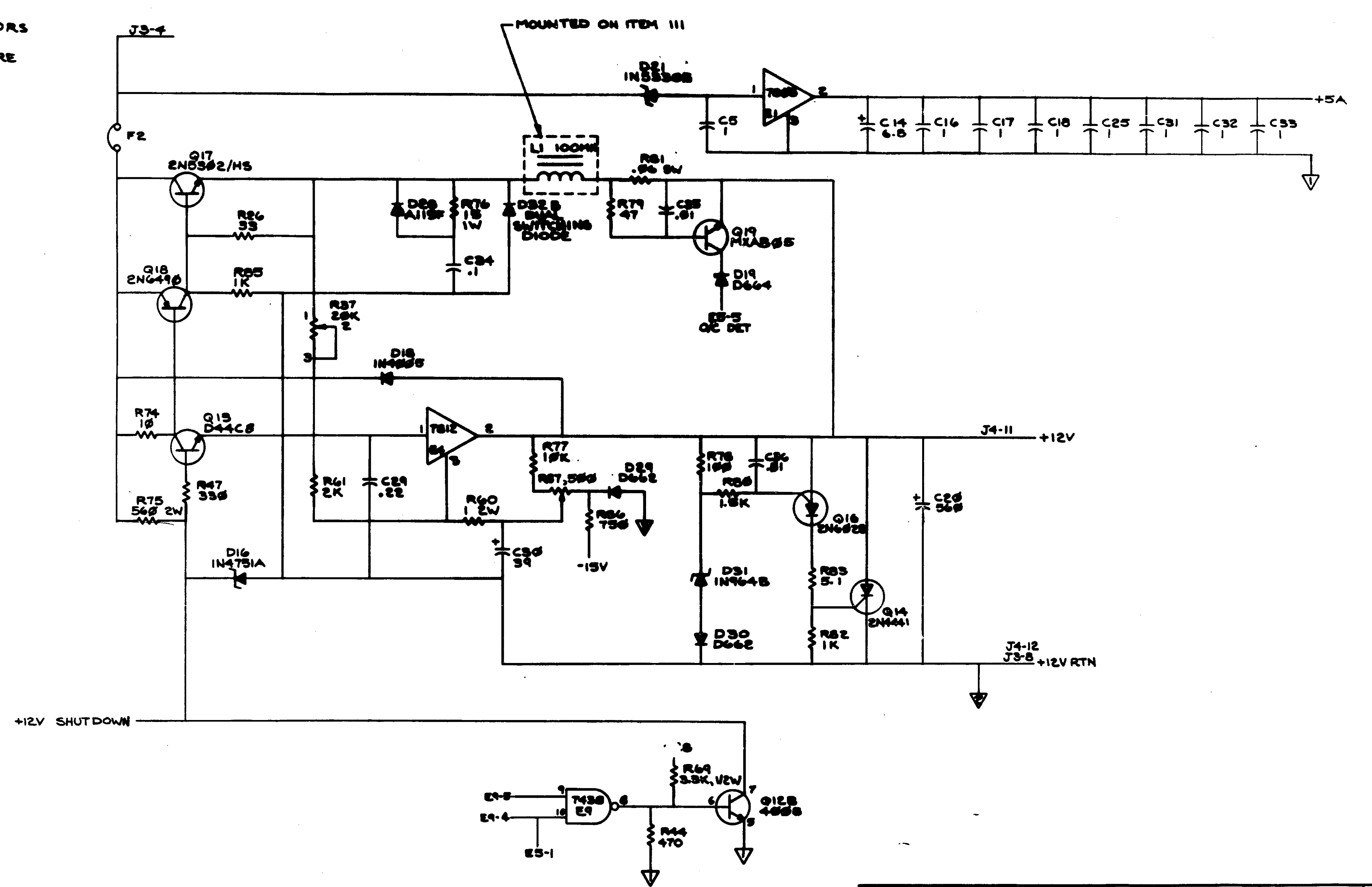
CHK	CHANGE NO.	REV.	
[illegible]	LK40-00001	A	CARLSON 6-8-72
[illegible]	GT40-00001	B	CRABBE 10-18-72
[illegible]	7008612-00001	C	J. KALAGHER 6-12-74 / 6-17-74
[illegible]	7008612-00002	D	J KALAGHER 9-26-74
[illegible]	7008612-00003	E	D. MUTNANSKY 2-20-75
[illegible]	LA36-00111	F	A. GERSHNOW 6-9-75
[illegible]	7008612-00004	H	A COHAN 9-11-75 / 8-19-75
[illegible]	7008612-00005	J	R. CAMELIO 26-JAN-76 / 2-4-76
[illegible]	7008612-00006	K	J. BIRO 16-FEB-76 / 20-FEB-76
[illegible]	7008612-00007	L	D. BENNETT 25 April 77 / 5/4/77
K.T.	7008612-00008	M	D. MARTEL 20 July 77
[illegible]	7008612-00009	N	R. MARTEL 11/22/77
[illegible]	7008612-00010	P	W. KERCHNER 8 DEC 77 / 12 DEC 77

DEC FORM NO. DRC 100-A

[redacted]

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/4 W, 5% ; ALL CAPACITORS ARE IN μF.
2. COMPONENTS SHOWN IN DASHED LINES ARE EXTERNAL TO THE P.C. BOARD.



LM 339	E5	12		3
LM 393	E2	-	8	4
IC TYPE	GND	+5V	-15V	+28V

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

IC PIN LOCATIONS

HIGHEST REF. DES.						
C39	D36	E16	Q19	R96	T1	L2
REF. DES. DELETED						
C19, C28, C38						
R42, R47, R49, R54, R57						

SEMICONDUCTOR CONVERSION CHART

PARTS LIST

ETCH BOARD REV. D

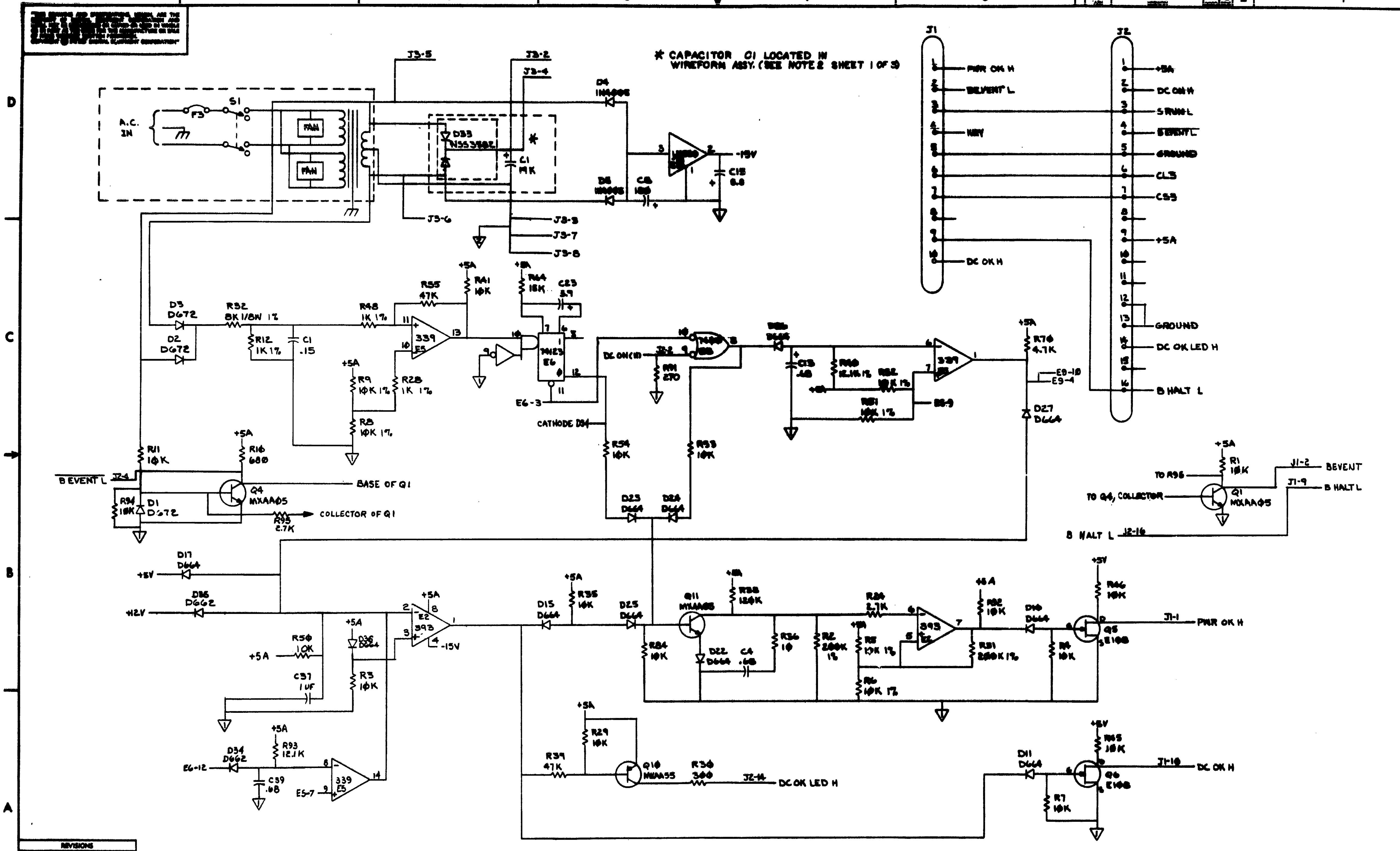
digital

TITLE H780 POWER SUPPLY

NEXT HIGHER ASSY D-AD-7011569-0-0

D CS 5411776-Ø-1 REV. M

SHEET 1 OF 3

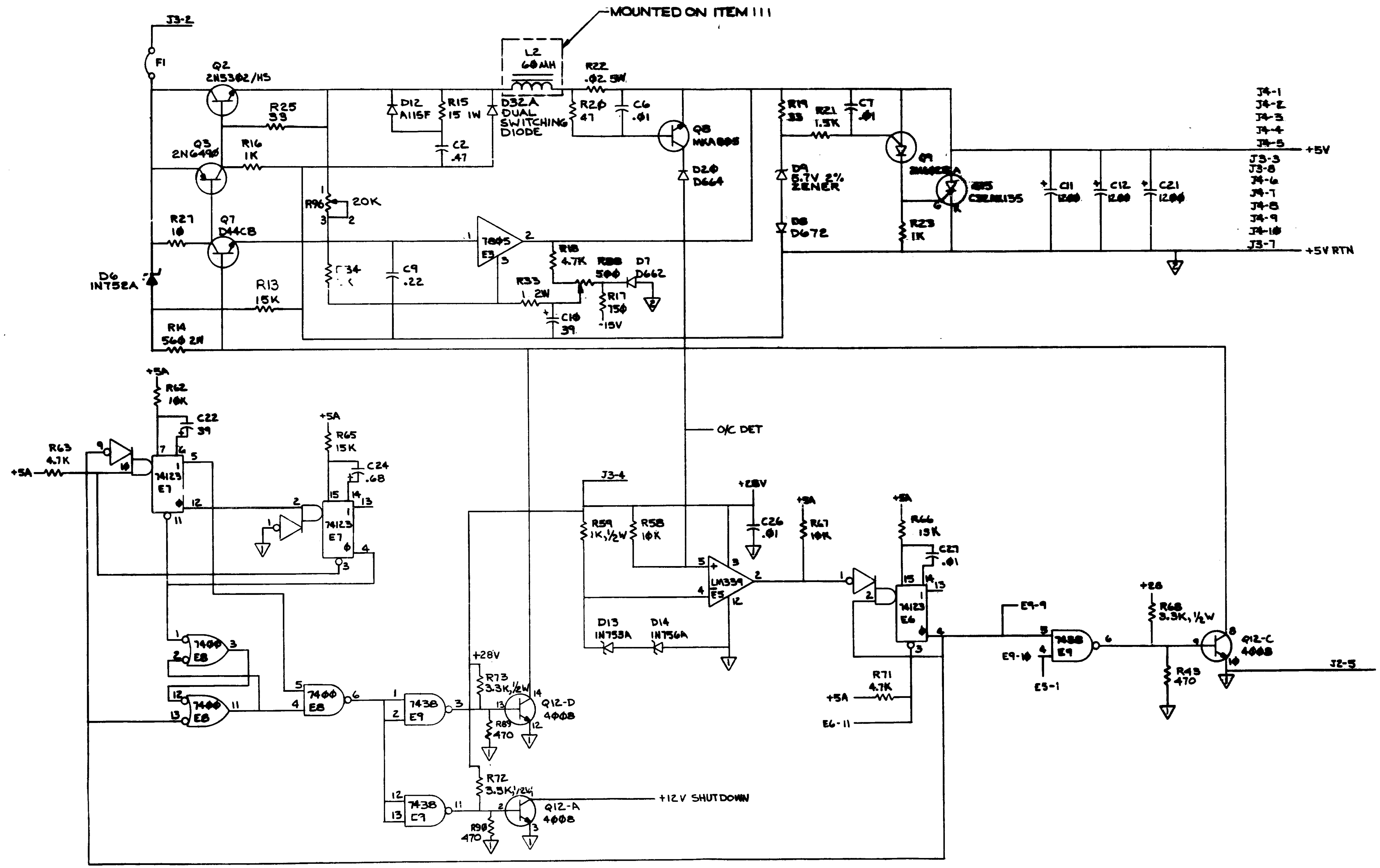


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE H780 POWER SUPPLY

SIZE D | CODE CS | NUMBER 5411776-0-1 | REV. M

SCALE | SHEET 2 OF 3



REVISIONS		
CHK	CHANGE NO.	REV.

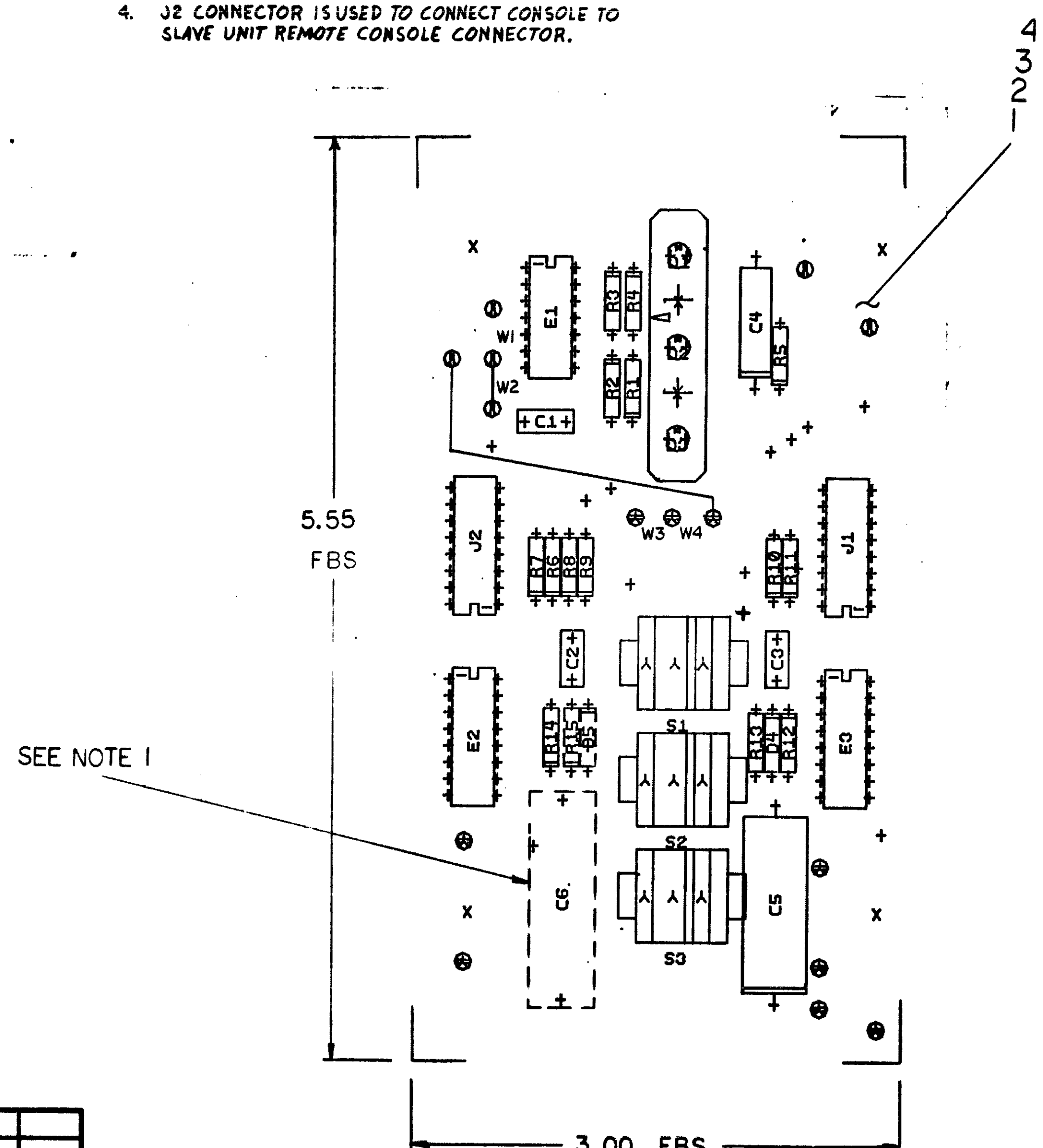
TITLE H780 POWER SUPPLY

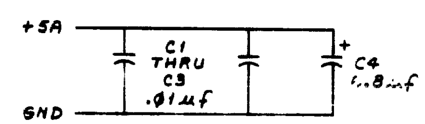
SIZE	CODE	NUMBER	REV.
D	CS	5411776-0-1	M

SCALE — SHEET 3 OF 3 — DIST.

NOTES:

1. DOTTED COMPONENTS C6, D5 AND R15 ARE ENGINEERING OPTION. VALUE TO BE DETERMINED AT LATER DATE.
2. ADD GREEN WIRE ITEM 23 FROM TP2 SPLIT LUG TO W4 SPLIT LUG NEXT TO R1Ø.
3. ~~W1, W2, AND W4 ARE OPTIONAL JUMPERS NOT TO BE INSERTED AT THIS TIME.~~
4. J2 CONNECTOR IS USED TO CONNECT CONSOLE TO SLAVE UNIT REMOTE CONSOLE CONNECTOR.
5. J1 SUPPLY CONNECTOR IS USED TO CONNECT RIBBON CABLE TO J2 ON POWER SUPPLY REGULATOR BOARD. (CABLE P/N 7008612 OM)
6. W3 AND W4 JUMPERS ARE NOT USED. (OPTIONS)





QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1		ETCHED CIRCUIT BOARD	5011807	1
REF		X-Y COORDINATE HOLE LOC.	K-CO-5411808-0-4	2
REF		ASSY, DRILL. HOLE LAYOUT	D-AH-5411808-0-5	3
REF		MODULE HISTORY	B-MH-5411808-0-6	4
1	E1	IC DEC 7406	1910741	5
1	E3	IC DEC 74123	1910936	6
1	E2	IC DEC 8838	1911117	7
10	R1, R5, R7–R13, R4	RES. 2K, 1/4W, 5%	1302388	8
2	R2, R3	RES. 220 Ω, 1/4W, 5%	1300271	9
1	R14	RES. 39K, 1/4W, 5%	1302514	10
2	J1, J2	IC SOCKET	1211813	11
1		L.E.D. HOLDER	1210940-2	12
3		SWITCH LEVERS	1210786	13
3	S1, S2, S3	SWITCH, S.P.D.T.	1210840	14
1	D4	DIODE D664	1100114	15
3	D1, D2, D3	DIODE, LIGHT EMITTING	1110864	16
1	C5	CAP, 22 MF, 10%, 50V	1011328	17
2		SCREW, PN. HD, SELF TAP #6 X .25	9008230-1	18
15		SPLIT LUG	9006735	19
3	C1, C2, C3	CAP .01 MF 100V	1001610-01	20
1	C4	CAP, 6.8 MF 35V 10%	1005306	21
A/R	W2,	UNINSULATED #22 BUS WIRE	91 07560-01	22
A/R		WIRE, #30 AWG	9105740-55	23
1	R6	RES. 10K 1/8W 1%	1303312	24

PARTS LIST

I.C. DEC 74123	8	16
I.C. DEC 8838	8	16
IC TYPE	GND	+5A
GND AND 5A ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE SHOWN ABOVE		
IC PIN LOCATIONS		

FIRST USED ON OPTION MODEL: H780

ETCH BOARD REV. C

CHANGE NO.	REV.	
5411808-00003	D	M. KOULOPOULOS 12 OCT 76
5411808-00002	C	J. BIRO 29 Apr 76, 4-1-76
5411808-00001	B	M. KOULOPOULOS 12-11-75

REVISIONS

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

SEMICONDUCTOR CONVERSION CHART

	DATE
DRN.	9-22-75
CHK'D.	9-8-75
ENG.	9-8-75
PROJ. ENG.	9-8-75
PROD.	9-8-75

NEXT HIGHER ASSY: D-AD-7Ø11569-Ø-Ø

SCALE: —/ /—

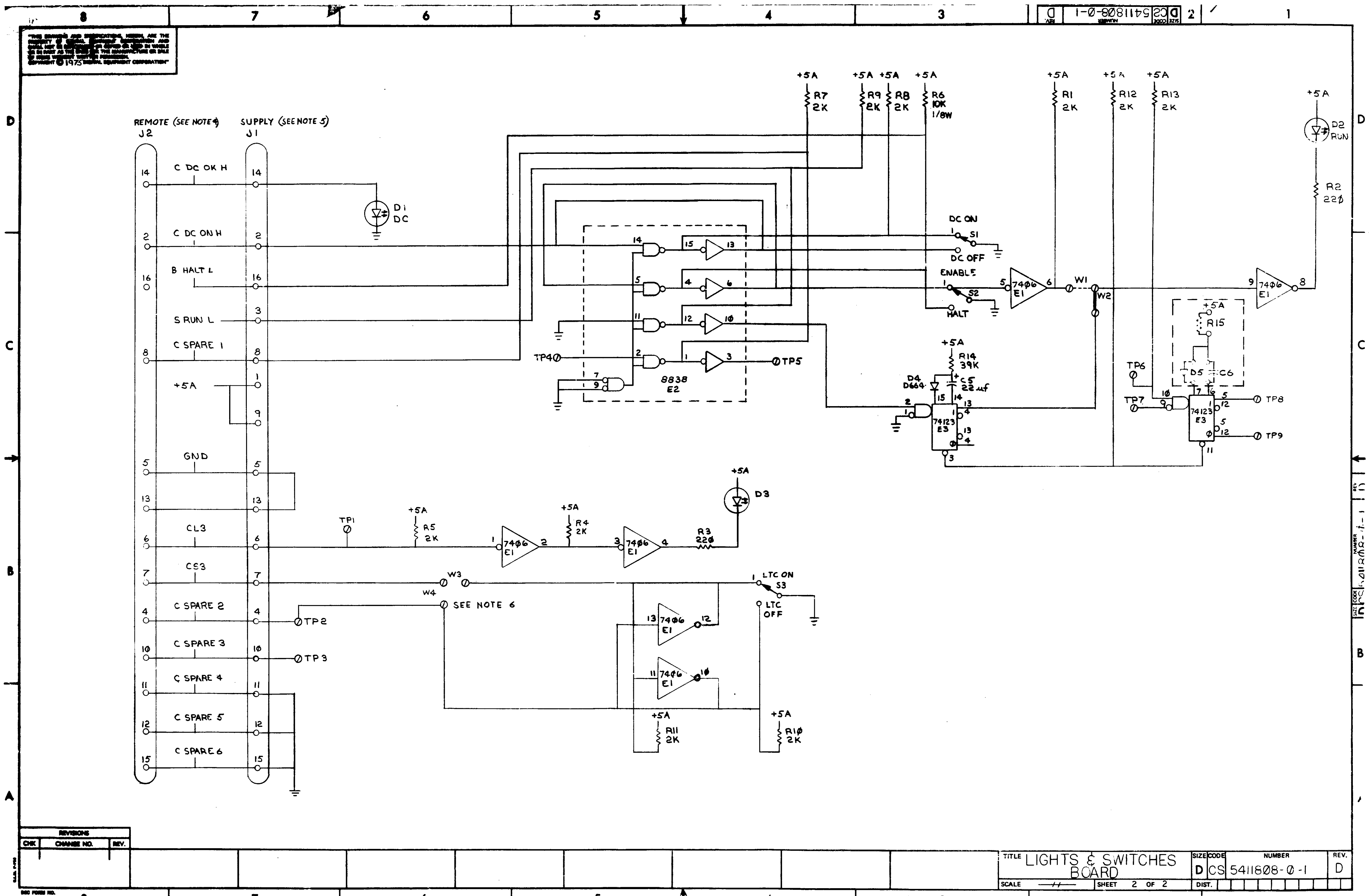
SHEET 1 OF 2

digital

TITLE: LIGHTS & SWITCHES BOARD

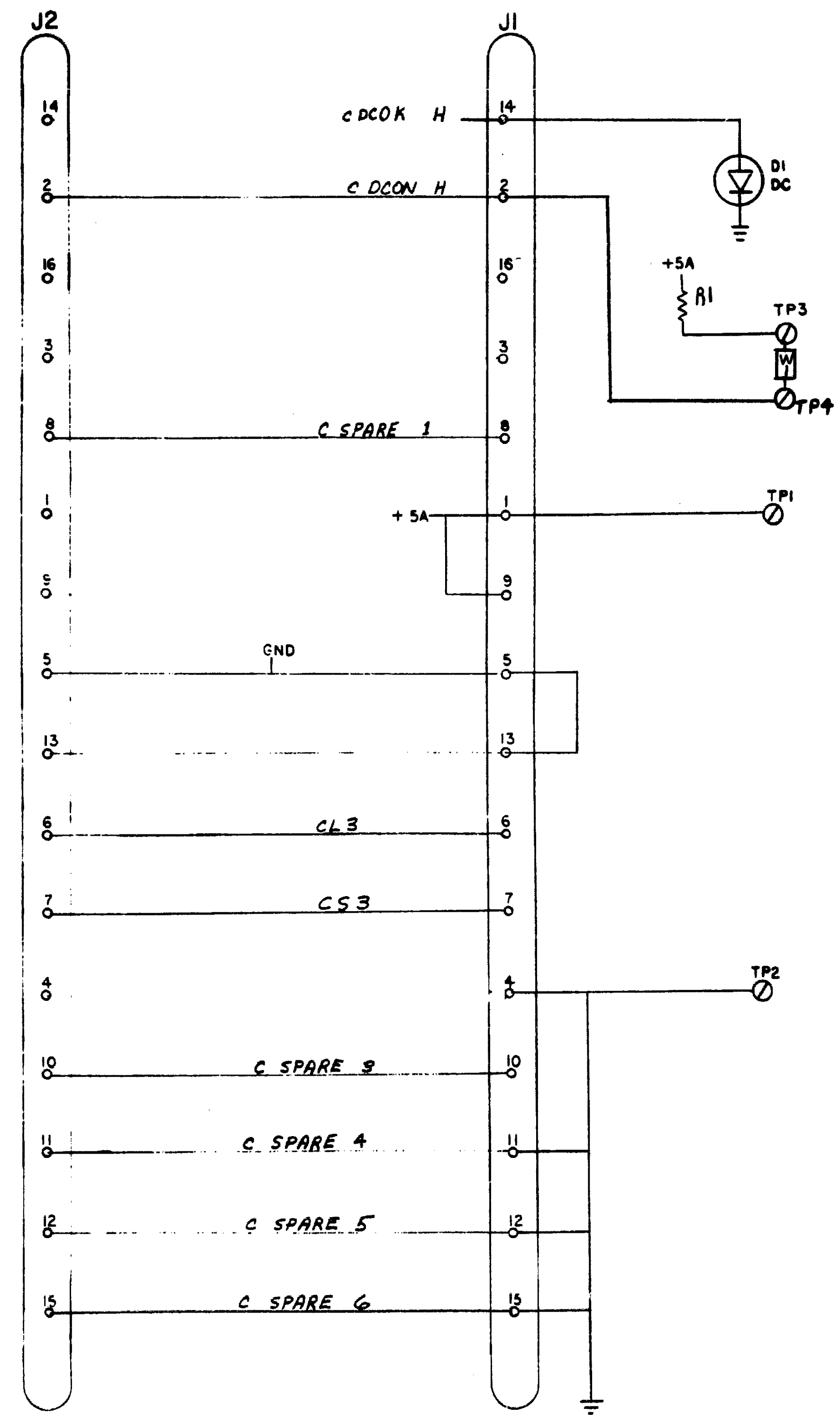
SIZE	CODE	NUMBER	REV.
D	CS	5411808-0-1	D

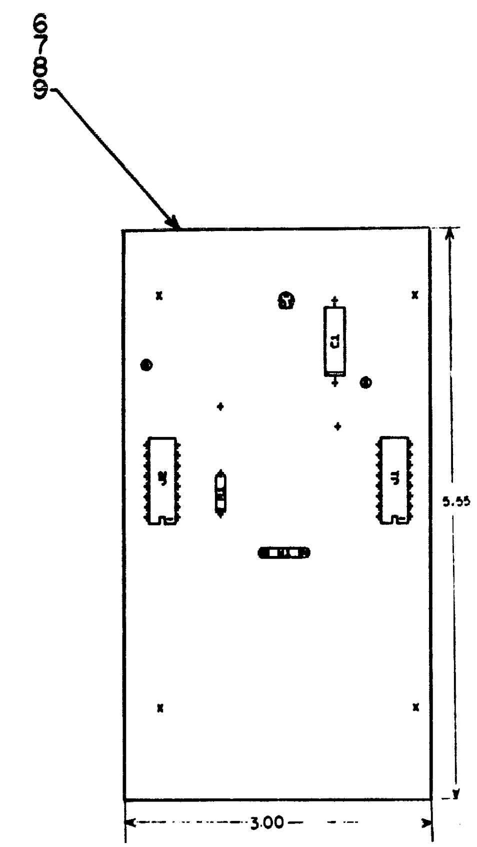
DIST.

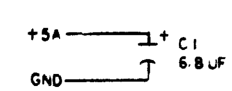


REMOTE (SEE NOTE 4) J2
SUPPLY (SEE NOTE 5) J1
C DC OK H
C DC ON H
B HALT L
S RUN L
C SPARE 1
+5A
GND
CL3
CS3
C SPARE 2
C SPARE 3
C SPARE 4
C SPARE 5
C SPARE 6
D1 DC
D2 RUN
D3
D4 D664
DC ON S1
DC OFF
ENABLE S2
HALT
LTC ON S3
LTC OFF
SEE NOTE 6
8838 E2
74123 E3
7406 E1
R7 2K
R9 2K
R8 2K
R6 10K 1/8W
R1 2K
R12 2K
R13 2K
R2 22Ø
R14 39K
C5 22 uf
R15
D5
C6
R5 2K
R4 2K
R3 22Ø
R11 2K
R1Ø 2K
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
W1
W2
W3
W4
TITLE LIGHTS & SWITCHES BOARD
SIZE D CODE CS NUMBER 5411808-Ø-1 REV. D
SCALE
SHEET 2 OF 2
DIST.
REVISIONS
CHK CHANGE NO. REV.

NOTES:







QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	W1	JUMPER INSULATED (22 AWG)	90-09185	10
1		ETCHED CIRCUIT BOARD	5012142	9
REF		X-Y COORDINATE HOLE LOC	K-CO-5412143-0-4	8
REF		ASSY/DRILL HOLE LAYOUT	D-AH-5412143-0-5	7
REF		MODULE HISTORY	B-MD-5412143-0-6	6
1	C1	CAP 6.8UF 35V 10%	10-05306	5
1	D1	DIODE LIGHT EMITTING	11-10864	4
2	J1, J2	IC SOCKET	12-11813	3
1	R1	RES 68, 1/4W 5%	13-00219	2
4	TP1 TP2 TP3 TP4	SPILT LUG	90-06735	1

PARTS LIST

FIRST USED ON OPTION MODEL

ETCH BOARD REV. B

IC TYPE	GND	+5V

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

IC PIN LOCATIONS

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

SEMICONDUCTOR CONVERSION CHART

REV. CHANGE NO. REVISIONS CHK

DRN. L. REYNOLDS DATE 2-18-76
CHK'D. F. GAROFALO DATE 2-26-76
ENG. W. [illegible] DATE 4/5/76
PROJ. ENG. W. [illegible] DATE 4/5/76
PROD. [illegible] DATE 4/10/76
NEXT HIGHER ASSY

digital

TITLE SLAVE CONSOLE

SIZE D CODE CS NUMBER 5412143-0-1 REV. A

SCALE
SHEET 1 OF 1
DIST.

DEC FORM NO. DRO 135.8

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY WALT SIZER DATE 9/29/75	CHECKED WALT SIZER DATE 9/29/75	SECTION 1
ENG Arnold D. Cohen DATE 10/17/75	PROD D. DeSousa DATE 10/17/75	ISSUED SECT. 2

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	11/03-AA	11/03-AB	11/03-BA	11/03-BB	11/03-CA	11/03-CB	11/03-DA	11/03-DB	11/Ø3-EA	11/Ø3-EB	11/Ø3-FA	11/Ø3-FB
1	ZJV01-RB	LSI-11 BASIC DIAGNOSTIC KIT	*	*	*	*	*	*	*	*	*	*	*	*
		*NOTE: These items are only to be shipped with first ship to customer.												

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
PDP 11/03 SOFTWARE LIST	NONE	A	PL	11/03-0-2	B	11/03 00007
	SHEET 1 OF 2	DIST.				

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

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY WALT SIZER DATE 9/29/75	CHECKED WALT SIZER DATE 9/29/75	SECTION 2
ENG Arnold D. Cohen DATE 10/17/75	PROD D. DeSousa DATE 10/17/75	ISSUED SECT. 2

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	11/Ø3-GA	11/Ø3-GB	11/Ø3-HA	11/Ø3-HB	11/Ø3-KA	11/Ø3-KB	11/Ø3-MA	11/Ø3-MB
1	ZJV01-RB	LSI-11 BASIC DIAGNOSTIC KIT	*	*	*	*	*	*	*	*

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
PDP 11/Ø3 SOFTWARE LIST	NONE	A	PL	11/Ø3-0-2	B	
	SHEET 2 OF 2	DIST.				

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

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY WALT SIZER DATE 9/29/75	CHECKED WALT SIZER DATE 9/29/75	SECTION 1
ENG [illegible] DATE 10/17/75	PROD [illegible] DATE 10/17/75	ISSUED SECT. 2

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	11/03-AA	11/03-AB	11/03-BA	11/03-BB	11/03-CA	11/03-CB	11/03-DA	11/03-DB	11/Ø3-EA	11/Ø3-EB	11/Ø3-FA	11/Ø3-FB
~~1~~	~~EK-LSI11-TM~~	~~LSI-11, PDP-11/03 USER'S MANUAL~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~
~~2~~	~~EB-Ø4870-75~~	~~LSI-11, 11/03 PROCESSOR HANDBOOK~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~
3	EH-Ø4779-75	LSI-11 PROGRAMMING CARD	*	*	*	*	*	*	*	*	*	*	*	*
4	ZJVØ1-RB	LSI-11 BASIC DIAGNOSTIC KIT	*	*	*	*	*	*	*	*	*	*	*	*
5	MP-11/03	PDP-11/03 CUSTOMER PRINT SET	1	1	1	1	1	1	1	1	1	1	1	1
6	A-PL-7011609-0-0	11/03 MOUNTING BRACKET KIT	1	1	1	1	1	1	1	1	1	1	1	1
7	EB-06583-76	MICROCOMPUTER HANDBOOK	*	*	*	*	*	*	*	*	*	*	*	*

*NOTE: These items are only to be shipped with first ship to customer.

TITLE PDP 11/03 SHIPPING LIST	ASSY NO. NONE SHEET 1 OF 2	SIZE A	CODE PL	NUMBER 11/03-0-1	REV. B	ECO NO. 11/03 00007

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

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY WALT SIZER DATE 9/29/75	CHECKED WALT SIZER DATE 9/29/75	SECTION 2
ENG [illegible] DATE 10/17/75	PROD [illegible] DATE 10/17/75	ISSUED SECT. 2

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	11/Ø3-GA	11/Ø3-GB	11/Ø3-HA	11/Ø3-HB	11/Ø3-KA	11/Ø3-KB	11/Ø3-MA	11/Ø3-MB
~~1~~	~~EK-LSI11-TM~~	~~LSI-11, PDP-11/Ø3 USER'S MANUAL~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~
~~2~~	~~EB-Ø487Ø-75~~	~~LSI-11, 11/Ø3 PROCESSOR HANDBOOK~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~	~~*~~
3	EH-Ø4779-75	LSI-11 PROGRAMMING CARD	*	*	*	*	*	*	*	*
4	ZJVØ1-RB	LSI-11 BASIC DIAGNOSTIC KIT	*	*	*	*	*	*	*	*
5	MP-11/Ø3	PDP-11/Ø3 CUSTOMER PRINT SET	1	1	1	1	1	1	1	1
6	A-PL-7011609-0-0	11/Ø3 MOUNTING BRACKET KIT	1	1	1	1	1	1	1	1
7	EB-06583-76	MICROCOMPUTER HANDBOOK	*	*	*	*	*	*	*	*

*NOTE: These items are only to be shipped with first ship to customer.

TITLE PDP 11/Ø3 SHIPPING LIST	ASSY NO. NONE SHEET 2 OF 2	SIZE A	CODE PL	NUMBER 11/Ø3-0-1	REV. B	ECO NO.

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