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FIELD MAINTENANCE PRINT SET

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UNIT VARIATIONS COVERED BY THIS PRINT SET
TU78-AF
TU78-AJ
TU78-AB
TU78-AD
TU78-BB
TU78-BD
TM78-AB
TM78-BB

Field Maintenance Print Set

MP01061-00

**Digital Equipment
Corporation**

DRB 124

REV. C	CHG. NO.	DATE
	TU78-SH017	9/83

Jm Blair

USED ON OPTION/MODEL
TU78

DRN.	DATE
L PETERSON	9/83

CHK'D	DATE
F ASTUTI	9/83

PROJ. ENG.	DATE
J BLAIR	9/83

FIELD SERV.	DATE
B STEERE	9/83

digital

TITLE: TAPE DRIVE TU78
FIELD MAINTENANCE PRINT SET

SIZE	CODE	NUMBER	REV.
B	TC	TU78-0-1	C
DIST.			

SIZE CODE
B TC

NUMBER
TU78-0-1

REV.
C

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DWG NO.	TITLE	REV
B-TC-TU78-0-1	TU78 TAPE DRIVE	H
E-UA-TU78-0-0	TU78 TAPE DRIVE	H
K-PL-TU78-0-DBP	TU78 TAPE DRIVE	H
E-UA-TM78-0-0	FORMATTER LOGIC ASSY	D
K-PL-TM78-C-DBP	FORMATTER LOGIC ASSY	A
E-IA-7017400-0-0	WIRED & HARNESS ASSY	C
D-CS-M8950-0-1	READ CHANNEL	L
D-UA-M8950-0-0	READ CHANNEL	L
K-PL-M8950-0-DBP	READ CHANNEL	L
D-CS-M8951-0-1	ERROR CORRECTION	C
D-UA-M8951-0-0	ERROR CORRECTION	C
K-PL-M8951-0-DBP	ERROR CORRECTION	C
D-CS-M8952-0-1	CRC & ACRC	C
D-UA-M8952-0-0	CRC & ACRC	C
K-PL-M8952-0-DBP	CRC & ACRC	C
D-CS-M8953-0-1	READ PATH SEQUENCER	D
D-UA-M8953-0-0	READ PATH SEQUENCER	D
K-PL-M8953-0-DBP	READ PATH SEQUENCER	D
D-CS-M8955-0-1	TU PORT	C
D-UA-M8955-0-0	TU PORT	C
K-PL-M8955-0-DBP	TU PORT	C

TITLE	TU78 TAPE DRIVE	SIZE	CODE	NUMBER	REV.
	FIELD MAINTENANCE PRINT SET	SHEET 2 OF 4	B TC	TU78-0-1	C

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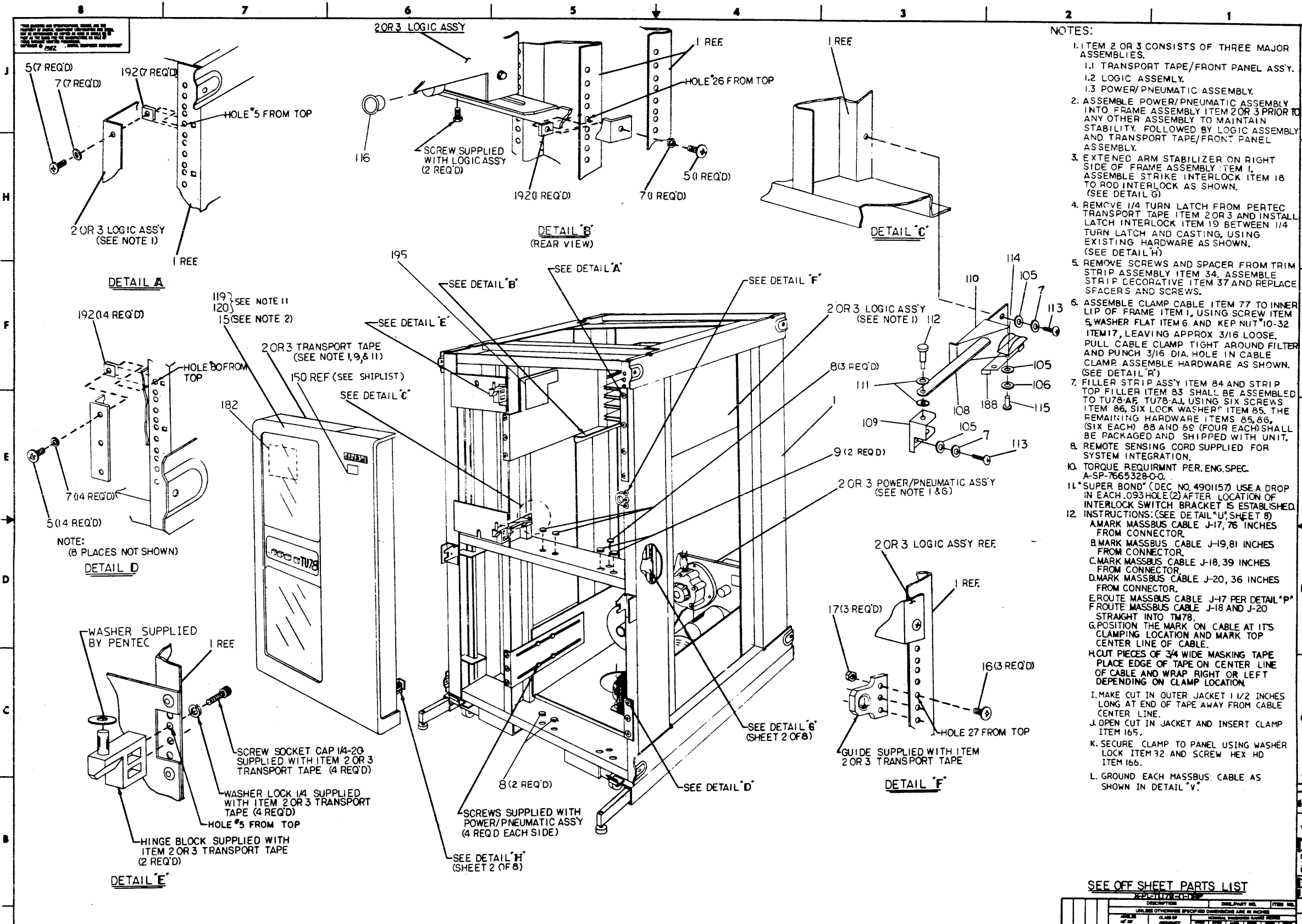
DWG NO.	TITLE	REV
D-CS-M8956-0-1	MASS BUS DATA PORT	D
D-UA-M8956-0-0	MASS BUS DATA PORT	D
K-PL-M8956-0-DBP	MASS BUS DATA PORT	D
D-CS-M8957-0-1	MASS BUS CONTROL	D
D-UA-M8957-0-0	MASS BUS CONTROL	D
K-PL-M8957-0-DBP	MASS BUS CONTROL	D
D-CS-M8958-0-1	TM78 TRANSLATOR	C
D-UA-M8958-0-0	TM78 TRANSLATOR	C
K-PL-M8958-0-DBP	TM78 TRANSLATOR	C
D-CS-M8959-0-1	WRITE MICRO CONTROLLER	F
D-UA-M8959-0-0	WRITE MICRO CONTROLLER	F
K-PL-M8959-0-DBP	WRITE MICRO CONTROLLER	F
D-CS-M8960-0-1	8085 MICRO COMPUTER	R
D-UA-M8960-0-0	8085 MICRO COMPUTER	R
K-PL-M8960-0-DBP	8085 MICRO COMPUTER	R
D-CS-H7422-0-1	H7422 CIRCUIT SCHEMATIC	B
E-UA-H7422-0-0	H7422 POWER SUPPLY	B
K-PL-H7422-0-DBP	H7422 POWER SUPPLY	B
E-AD-7017121-0-0	TM78 POWER SUPPLY	A
D-CS-7017121-0-0	TM78 POWER SUPPLY	A

TITLE	SIZE	CODE	NUMBER	REV.
TAPE DRIVE TU78 FIELD MAINTENANCE PRINT SET	SHEET 3 OF 4	B TC	TU78-0-1	C

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DWG NO.	TITLE	REV
K-PL-7017121-0-DBP	TM78 POWER SUPPLY	A
D-CS-5414240-0-1	H7476 REGULATOR	C
D-UA-5414240-0-0	H7476 REGULATOR	C
K-PL-5414240-0-DBP	H7476 REGULATOR	C
D-CS-5413716-0-1	+5V REGULATOR	B
D-UA-5413716-0-0	+5V REGULATOR	B
K-PL-5413716-0-DBP	+5V REGULATOR	B
D-CS-5412441-0-1	+5V 32 AMP REGULATOR	J
D-UA-5412441-0-0	+5V 32 AMP REGULATOR	J
K-PL-5412441-0-DBP	+5V 32 AMP REGULATOR	J
D-CS-5414192-0-1	AC/DC LOW CIRCUITRY	B
D-UA-5414192-0-0	AC/DC LOW BOARD	B
K-PL-5414192-0-DBP	AC/DC LOW BOARD	B
D-CS-00872-0-1	POWER CONTROL	B
E-UA-00872-0-0	POWER CONTROL	B
K-PL-00872-0-DBP	POWER CONTROL	B
MP-01032 (COMPLETE)	PRINTSET TEU-78	A
D-CS-5414174-0-1	TM78 KEY PAD	A
D-UA-5414174-0-0	TM78 KEY PAD	A
K-PL-5414174-0-DBP	TM78 KEY PAD	A
D-CS-5413758-0-1	TM78 BACKPLANE	C
D-UA-5413758-0-0	TM78 BACKPLANE	B
K-PL-5413758-0-DBP	TM78 BACKPLANE	B

TITLE	TAPE DRIVE TU78 FIELD MAINTENANCE PRINT SET	SIZE	CODE	NUMBER	REV.
	SHEET 4 OF 4	B	TC	TU78-0-1	C



NOTES:

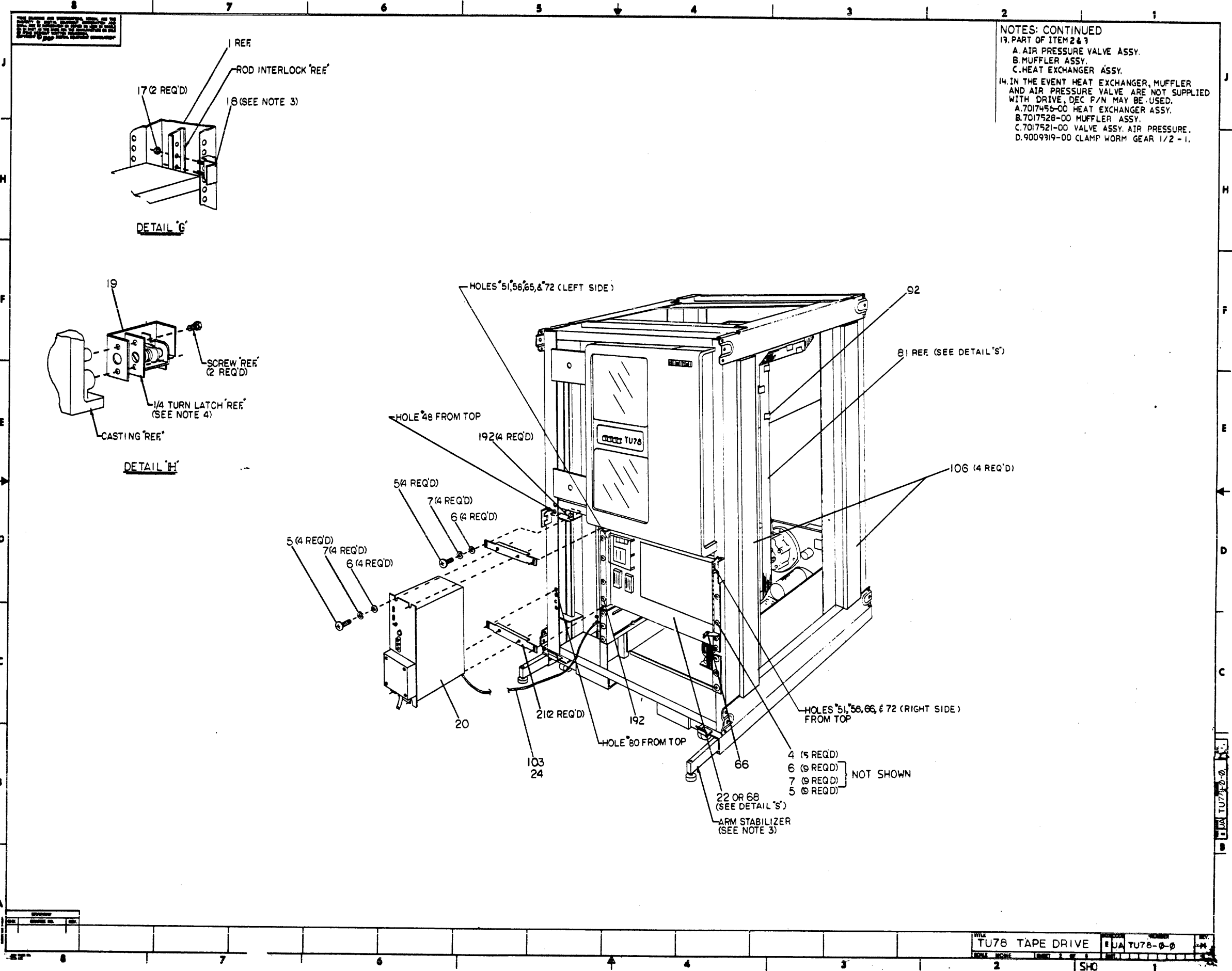
- ITEM 2 OR 3 CONSISTS OF THREE MAJOR ASSEMBLIES.
 - TRANSPORT TAPE/FRONT PANEL ASSY.
 - LOGIC ASSEMBLY.
 - POWER/PNEUMATIC ASSEMBLY.
- ASSEMBLE POWER/PNEUMATIC ASSEMBLY INTO FRAME ASSEMBLY ITEM 1, PRIOR TO ANY OTHER ASSEMBLY TO MAINTAIN STABILITY. FOLLOWED BY LOGIC ASSEMBLY AND TRANSPORT TAPE/FRONT PANEL ASSEMBLY.
- EXTENDED ARM STABILIZER ON RIGHT SIDE OF FRAME ASSEMBLY ITEM 1, ASSEMBLE STRIKE INTERLOCK ITEM 18 TO ROD INTERLOCK AS SHOWN. (SEE DETAIL G)
- REMOVE 1/4 TURN LATCH FROM PERTEC TRANSPORT TAPE ITEM 2 OR 3 AND INSTALL LATCH INTERLOCK ITEM 19 BETWEEN 1/4 TURN LATCH AND CASTING, USING EXISTING HARDWARE AS SHOWN. (SEE DETAIL H)
- REMOVE SCREWS AND SPACER FROM TRIM STRIP ASSEMBLY ITEM 34, ASSEMBLE STRIP DECORATIVE ITEM 37 AND REPLACE SPACERS AND SCREWS.
- ASSEMBLE CLAMP CABLE ITEM 77 TO INNER LIP OF FRAME ITEM 1, USING SCREW ITEM 5, WASHER FLAT ITEM 6 AND KEP NUT 10-32 ITEM 17, LEAVING APPROX 3/16 LOOSE. PULL CABLE CLAMP TIGHT AROUND FILTER AND PUNCH 3/16 DIA. HOLE IN CABLE CLAMP ASSEMBLY HARDWARE AS SHOWN. (SEE DETAIL R)
- FILLER STRIP ASSY ITEM 84 AND STRIP TOP FILLER ITEM 83 SHALL BE ASSEMBLED TO TU78-AE, TU78-AJ USING SIX SCREWS ITEM 86, SIX LOCK WASHERS ITEM 85, THE REMAINING HARDWARE ITEMS 85, 86, (SIX EACH) 88 AND 89 (FOUR EACH) SHALL BE PACKAGED AND SHIPPED WITH UNIT.
- REMOTE SENSING CORD SUPPLIED FOR SYSTEM INTEGRATION.
- TORQUE REQUIREMENT PER. ENG. SPEC. A-SP-7665328-0-0.
- *SUPER BOND* (DEC. NO. 4901157) USE A DROP IN EACH .093 HOLE (2) AFTER LOCATION OF INTERLOCK SWITCH BRACKET IS ESTABLISHED.
- INSTRUCTIONS: (SEE DETAIL "U", SHEET 8)
 - MARK MASSBUS CABLE J-17, 76 INCHES FROM CONNECTOR.
 - MARK MASSBUS CABLE J-19, 81 INCHES FROM CONNECTOR.
 - MARK MASSBUS CABLE J-18, 39 INCHES FROM CONNECTOR.
 - MARK MASSBUS CABLE J-20, 36 INCHES FROM CONNECTOR.
 - ROUTE MASSBUS CABLE J-17 PER DETAIL "P"
 - ROUTE MASSBUS CABLE J-18 AND J-20 STRAIGHT INTO TM78.
 - POSITION THE MARK ON CABLE AT ITS CLAMPING LOCATION AND MARK TOP CENTER LINE OF CABLE.
 - CUT PIECES OF 3/4" WIDE MASKING TAPE PLACE EDGE OF TAPE ON CENTER LINE OF CABLE AND WRAP RIGHT OR LEFT DEPENDING ON CLAMP LOCATION.
 - MAKE CUT IN OUTER JACKET 1 1/2 INCHES LONG AT END OF TAPE AWAY FROM CABLE CENTER LINE.
 - OPEN CUT IN JACKET AND INSERT CLAMP ITEM 165.
 - SECURE CLAMP TO PANEL USING WASHER LOCK ITEM 32 AND SCREW HEX HD ITEM 166.
 - GROUND EACH MASSBUS CABLE AS SHOWN IN DETAIL "V".

REV.	DATE	DESCRIPTION	BY	CHKD.
1		REVISED TO ADD PARTS LIST		
2		REVISED TO ADD PARTS LIST		
3		REVISED TO ADD PARTS LIST		
4		REVISED TO ADD PARTS LIST		
5		REVISED TO ADD PARTS LIST		
6		REVISED TO ADD PARTS LIST		
7		REVISED TO ADD PARTS LIST		
8		REVISED TO ADD PARTS LIST		

SEE OFF SHEET PARTS LIST

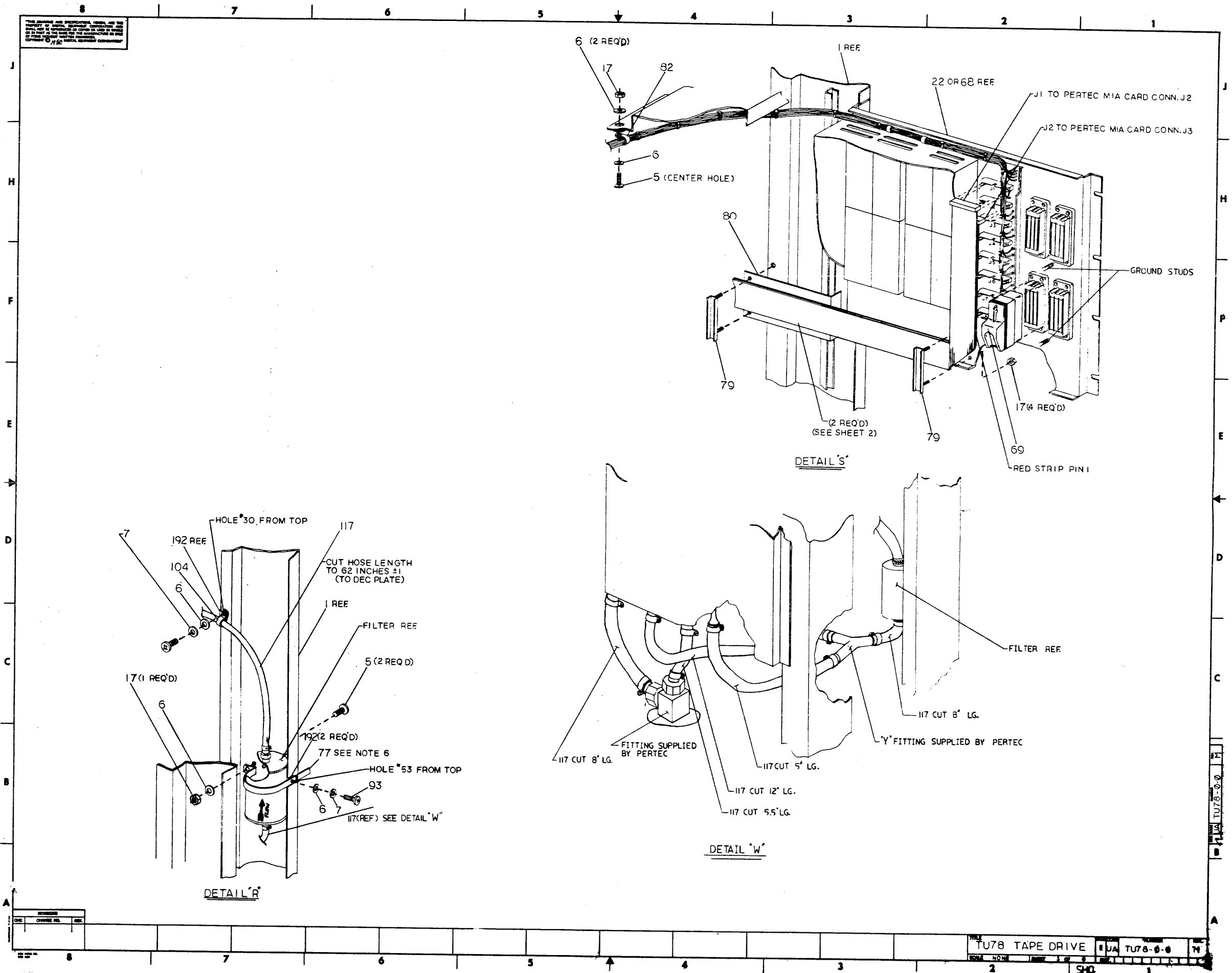
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	FRAME ASSEMBLY	1	REF.
2 OR 3	LOGIC ASSY (SEE NOTE 1)	1	REF.
2 OR 3	POWER/PNEUMATIC ASSY (SEE NOTE 1 & 6)	1	REF.
2 OR 3	TRANSPORT TAPE (SEE NOTE 1, 9, & 11)	1	REF.

DATE: OCT 78
 DRAWN BY: H. A. OLSON
 CHECKED BY: [Signature]
 TITLE: TU78 TAPE DRIVE
 SCALE: NONE



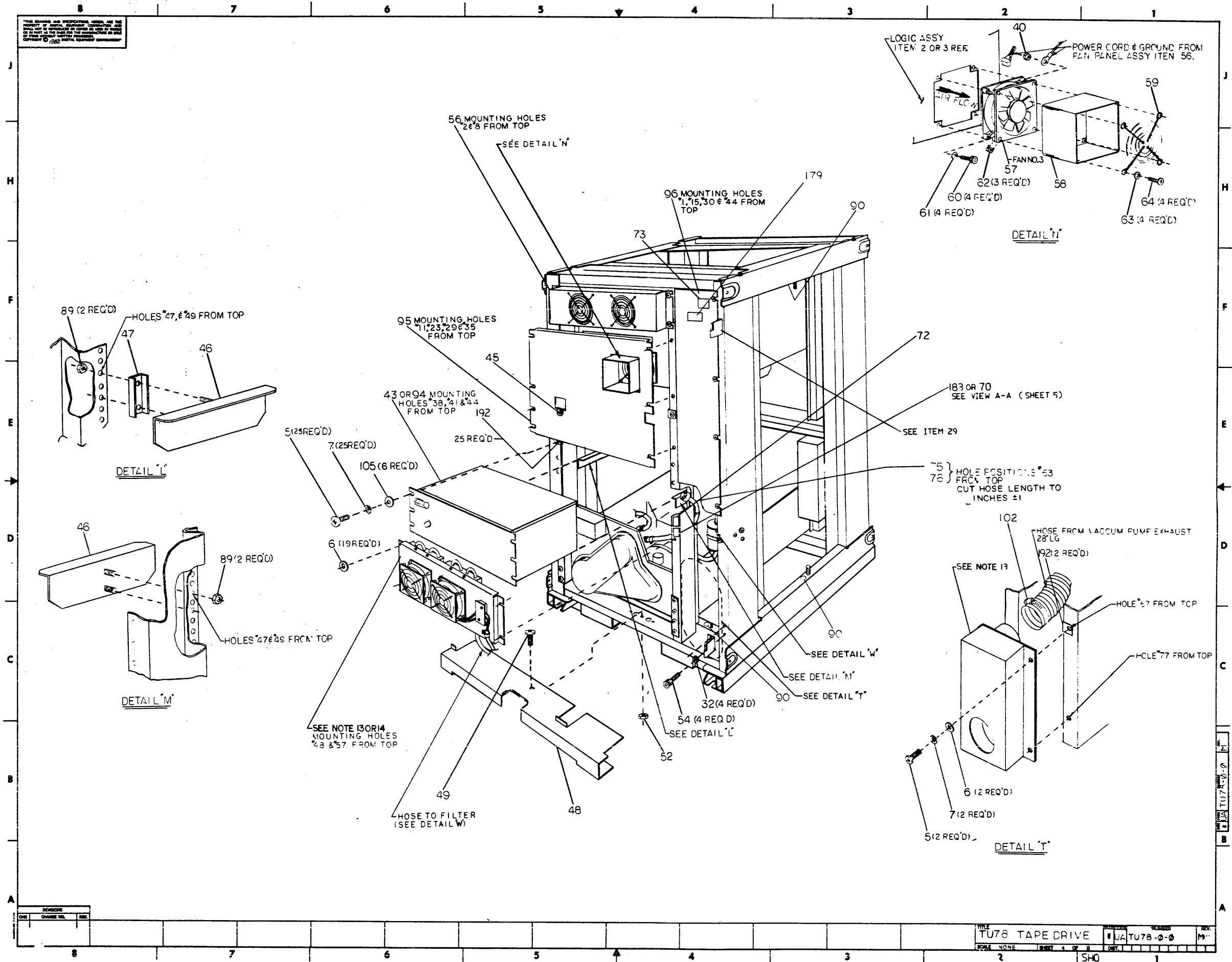
NOTES: CONTINUED
 13. PART OF ITEM 2 & 3
 A. AIR PRESSURE VALVE ASSY.
 B. MUFFLER ASSY.
 C. HEAT EXCHANGER ASSY.
 14. IN THE EVENT HEAT EXCHANGER, MUFFLER AND AIR PRESSURE VALVE ARE NOT SUPPLIED WITH DRIVE, DEC P/N MAY BE USED.
 A. 701745-00 HEAT EXCHANGER ASSY.
 B. 7017528-00 MUFFLER ASSY.
 C. 7017521-00 VALVE ASSY. AIR PRESSURE.
 D. 9009319-00 CLAMP WORM GEAR 1/2 - 1.

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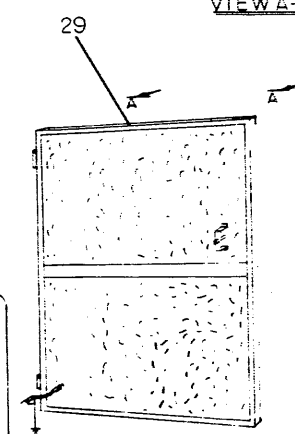
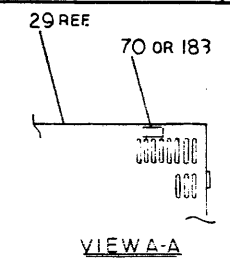
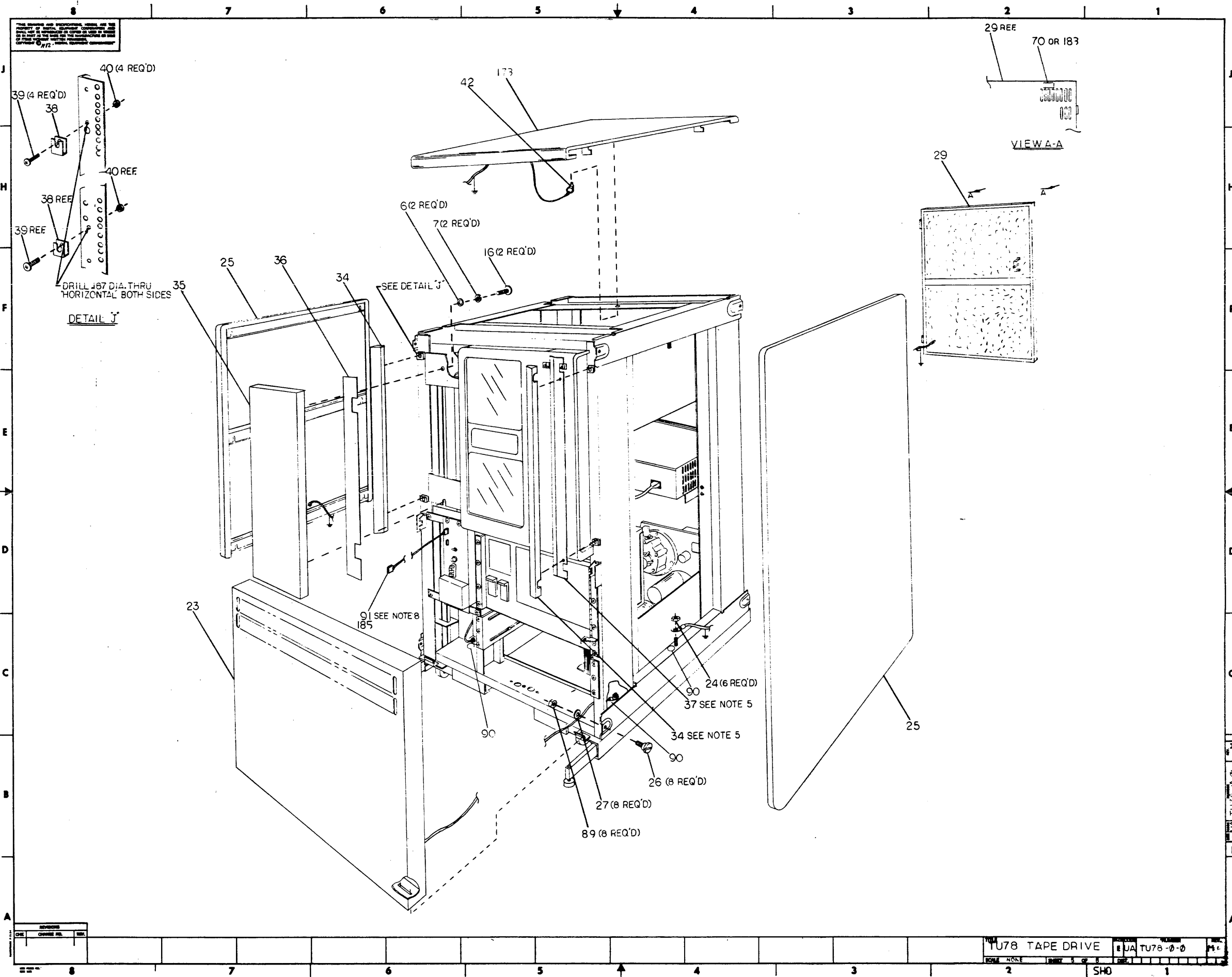


REV.	DESCRIPTION	DATE

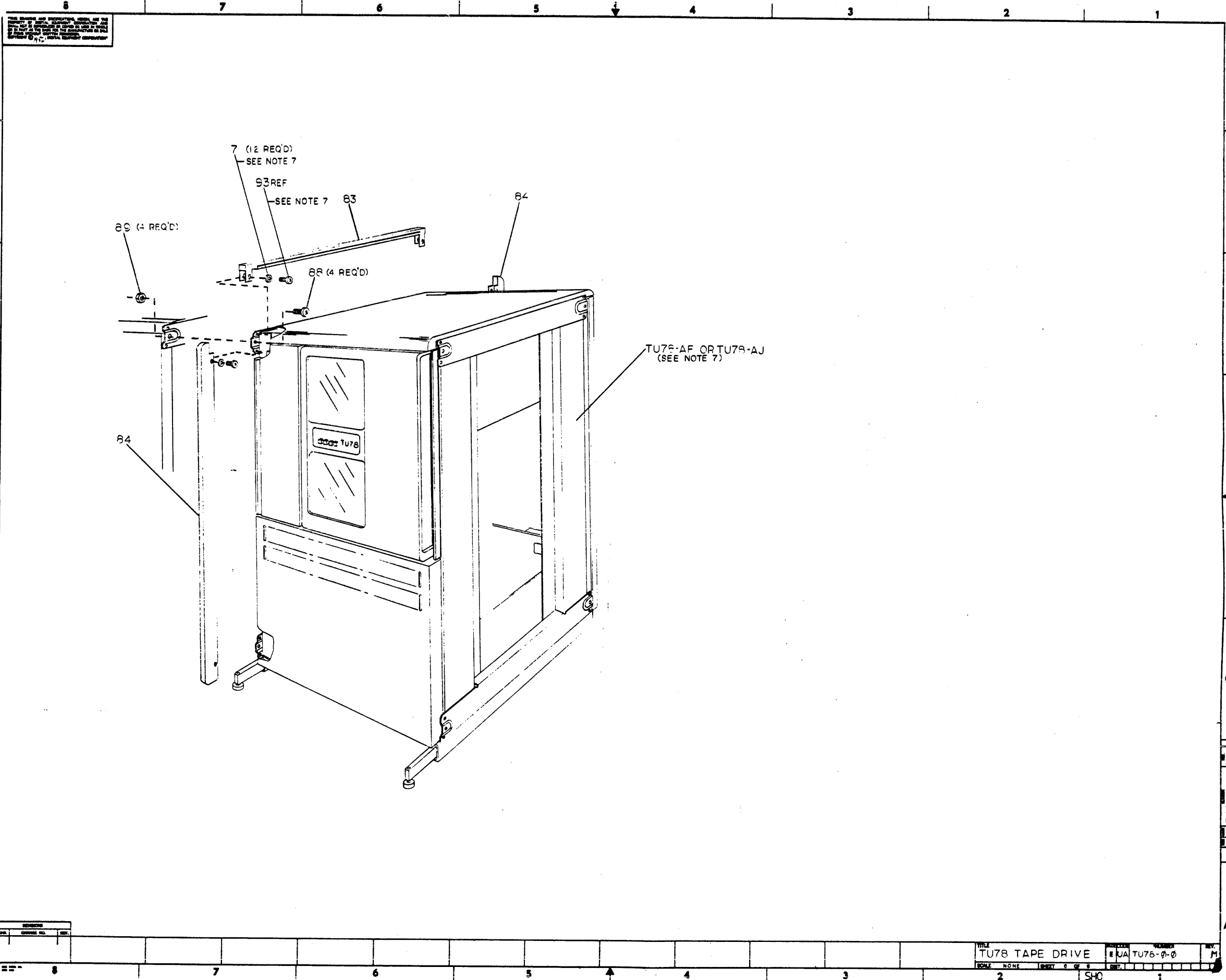
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REV.	DESCRIPTION	DATE

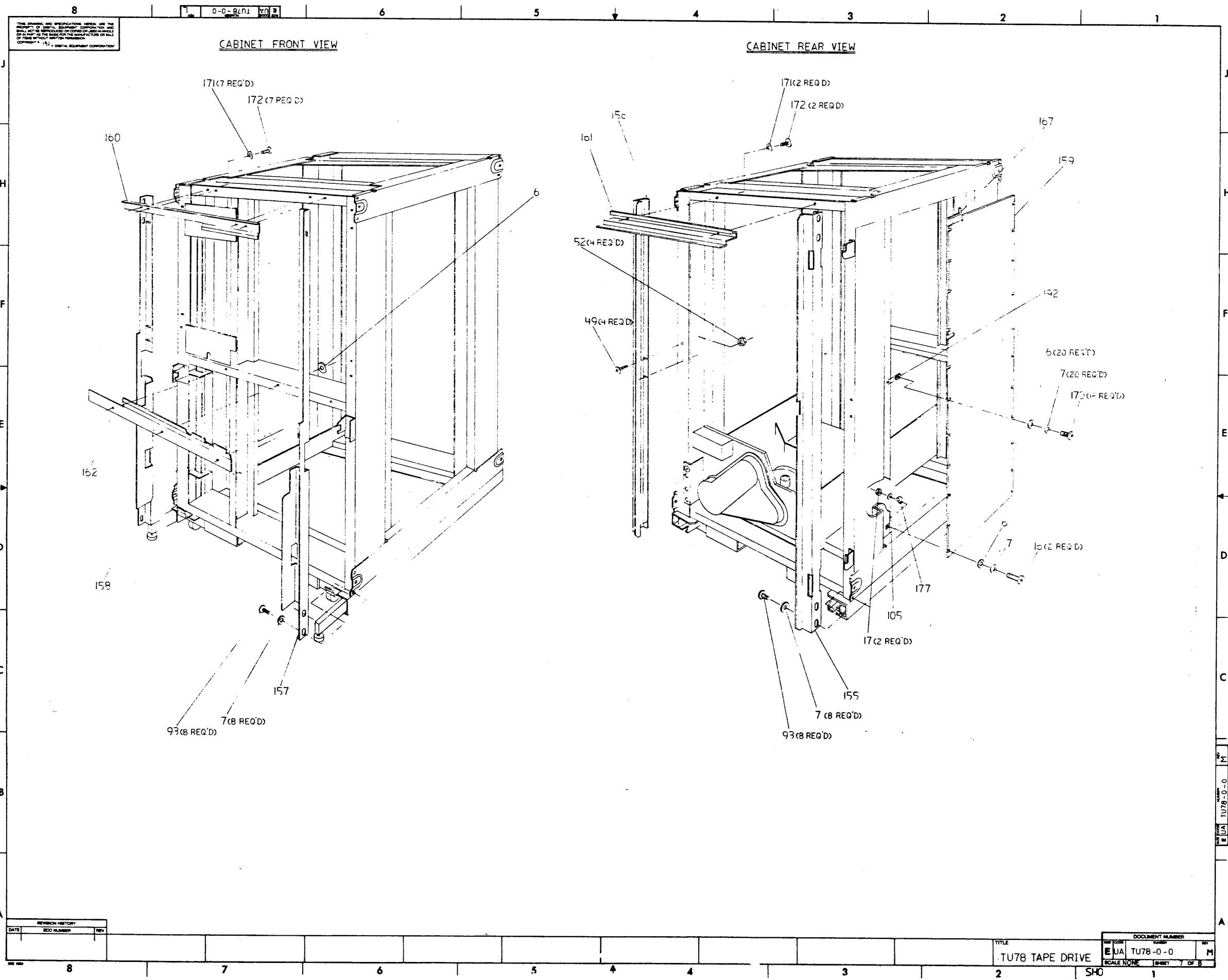


REV	DESCRIPTION	DATE	BY



REV.	DESCRIPTION

TITLE	TU78 TAPE DRIVE	REV.	JA	QUANTITY	TU78-0-0	REV.	M
SCALE	NONE	PART	0	OF	0	DRY.	
		2	SHO		1		



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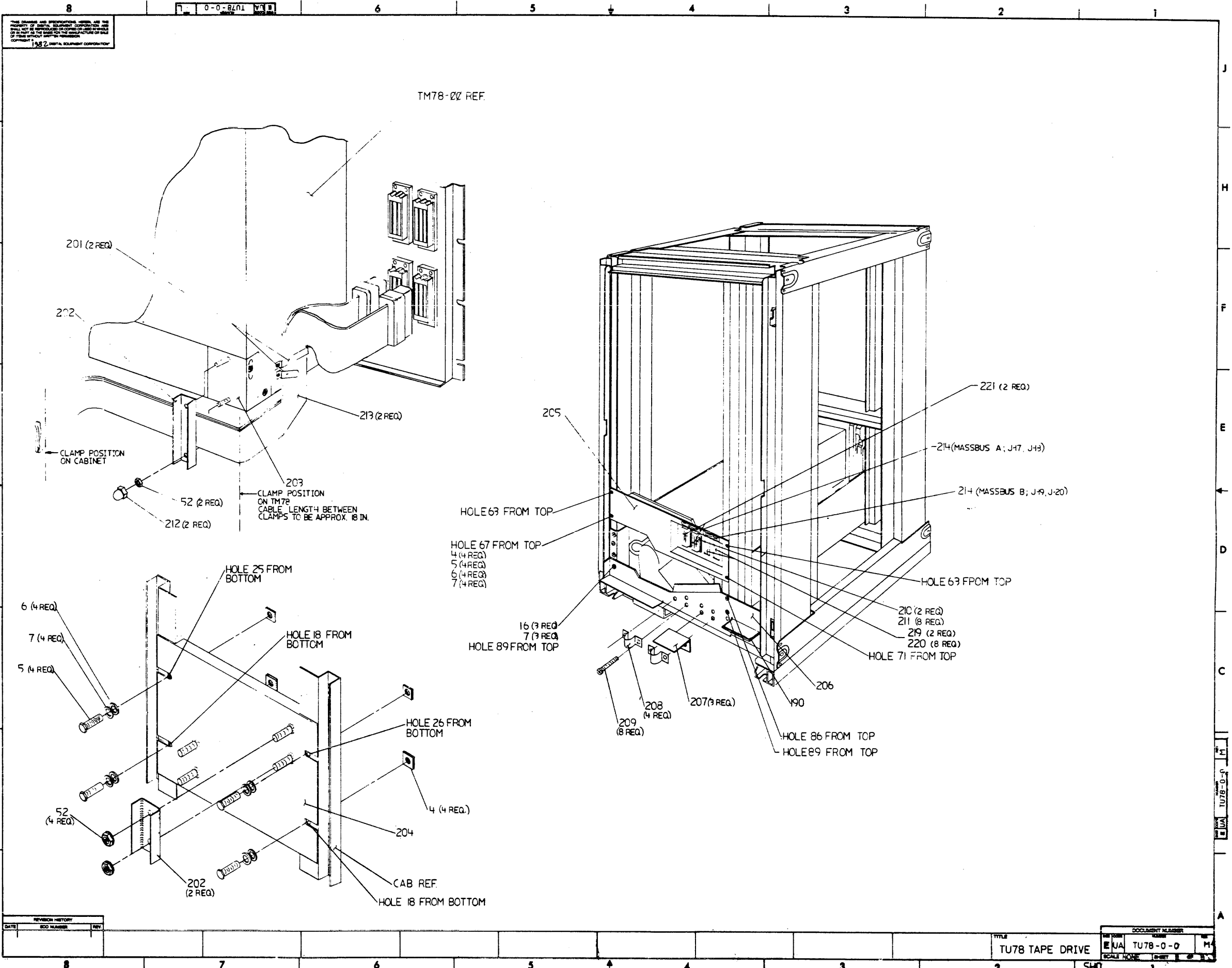
CABINET FRONT VIEW

CABINET REAR VIEW

REVISION HISTORY		
DATE	ECO NUMBER	REV

DOCUMENT NUMBER
 TITLE: TU78 TAPE DRIVE
 SCALE: NONE
 SHEET: 7 OF 8

TU78-0-0
 M



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REVISION HISTORY		
DATE	ISS NUMBER	REV

TITLE: TU78 TAPE DRIVE
 DOCUMENT NUMBER: EJA TU78-0-0
 SCALE: 1/8" = 1"

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION					
						AF	AJ	AB	AD	BB	BD
1	1	E-AD-7011588-0-0	7011588-09		FRAME ASSY SINGLE HIBOY	1	1	1	1	1	1
2	2	A-PS-3017189-0-0	3017189-00		TAPE TRANSPORT, TU78 STRK	1	1	1	1	1	1
3	3	E-AD-2200020-0-0	2200020-16		TU78 50HZ 0-2KFT ALT. KIT	-	1	-	1	-	1
4	4		9007786-00		RETAINER, U-NUT 10-32X	-	-	5	5	5	5
5	5		9006074-03		SCREW, MACH TRUSS PHIL 10-	59	59	78	79	79	79
6	6		9006668-00		WASHER, FLAT SST	57	57	57	57	57	57
7	7		9007651-00		WASHER, LOCK EXTERNAL STEEL	115	115	98	98	98	98
8	8		9007060-00		PLUG, BUTTON 0.500HOLE BRASS	5	5	5	5	5	5
9	9		9007062-00		PLUG, BUTTON 0.625HOLE BRASS	2	2	2	2	2	2
10	10	C-MD-7422573-0-0	7422573-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
11	11		9007027-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
12	12		9007583-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
13	13		9007774-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
14	14		9006646-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
15	15	A-PS-1214405-0-0	1214405-00		DOOR, TAPE TRANSPORT, FRONT, NORYL,	1	1	1	1	1	1
16	16		9006075-03		SCREW, MACH TRUSS PHIL 10-	5	5	9	9	9	9
17	17		9006565-00		NUT, HEX EXT TOOTH LCKWSHR 10-32	12	12	14	14	14	14
18	18	C-IA-7419081-0-0	7419081-00		STRIKE INTERLOCK	1	1	1	1	1	1
19	19	C-MD-7419082-0-0	7419082-00		LATCH INTERLOCK	1	1	1	1	1	1
20	20	E-UA-0872-0-0	00872-E		240V 24A FILTERED POWER CONTROL	1	1	1	1	1	1
21	21	C-IA-7423395-0-0	7423395-00		BKT SUPPORT	2	2	2	2	2	2
22	22	E-UA-TM78-AB	TM78 -AB		SINGLE MASSBUS GCR, PE FORMATTER+	-	-	1	1	1	1
23	23	D-IA-7017557-0-0	7017557-00		COVER ASSY FRONT WITH FOAM	1	1	1	1	1	1
24	24		9008203-01		NUT, HEX EXT TOOTH LCKWSHR 1/4-20	4	4	6	6	6	6
25	25	E-IA-7011509-0-0	7011509-00		END PANEL ASSY HIBOY	-	-	2	2	2	2
26	26	C-MD-7414318-0-0	7414318-00		KEY BUTTON	-	-	8	8	8	8
27	27		9006676-00		WASHER, FLAT SST	-	-	8	8	8	8
28	28		9007897-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
29	29	E-IA-7014175-0-0	7014175-01		DOOR ASSY REAR (SINGLE HIBOY)	1	1	1	1	1	1
30	31		9006056-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-

REVISION HISTORY			BASIC PART NO: TU78		DRN:	H.A. OLSON	DATE:	MAR-80	D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	J. FALKOWSKI	DATE:	25-APR-80	TITLE PARTS LIST			
	INITIAL	A	SECTION VARIATION INDEX					TU78 TAPE DRIVE			
		B	[A] AF, AJ, AB, AD, BB, BD								
		C									
		D	[B]	DES. ENG:	H.A. OLSON	DATE:	MAR-80	DOCUMENT NUMBER			
		F						SIZE	CODE	NUMBER	REV
		H	[C]	RESP. ENG.:	J. HESS	DATE:	25-APR-80	K	PL	TU78-0-DBP	M
		J									
		K	[D]	MFG. ENG.:	P. BARTON	DATE:	25-APR-80	RELEASE DATE: 30-JAN-84			
		L									
		M	[E]	ASSEMBLY NUMBER:	E-UA-TU78-0-0	TOP DOCUMENT NUMBER:	B-DD-TU78-0-0	FILE NAME:	Z1403M.PLS	EDIT #:	70
			[F]								

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION					
						AF	AJ	AB	AD	BB	BD
31	32		9007797-00		WASHER,HELICAL SPLIT SST	4	4	8	8	8	8
32	33	E-MD-7415471-0-0	7415471-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
33	34	D-IA-7011638-0-0	7011638-01		FILLER MOLDING ASSY	2	2	2	2	2	2
34	35	D-IA-7422564-0-0	7422564-03		PANEL VERTICAL 26.19+/- .09 23.25	1	1	1	1	1	1
35	36	C-MD-7422571-0-0	7422571-00		FILLER DECORATIVE	1	1	1	1	1	1
36	37	C-MD-7422930-0-0	7422930-00		RT SIDE DECSTRIP	1	1	1	1	1	1
37	38	B-MD-7422258-0-0	7422258-00		CLIP	4	4	4	4	4	4
38	39		9006024-03		SCREW,MACH TRUSS PHIL 6-	4	4	4	4	4	4
39	40		9006560-00		NUT,HEX EXT TOOTH LCKWSHR 6-32	5	5	5	5	5	5
40	41	E-IA-7011552-0-0	7011552-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
41	42	C-IA-7414622-0-0	7414622-00		STUD ASSY	1	1	1	1	1	1
42	43	C-IA-7017121-0-1	7017121-01		TM78 POWER SUPPLY (240V)	-	-	1	1	1	1
43	45	A-PS-1212972-0-0	1212972-02		SPRING,RECEPTACLE 1.04 WDX1.5	1	1	1	1	1	1
44	46	C-IA-7423394-0-0	7423394-00		P/S SUPPORT	-	-	2	2	2	2
45	47	C-MD-7423396-0-0	7423396-00		SPACER SUPPORT	-	-	1	1	1	1
46	48	D-IA-7422948-0-0	7422948-00		SAFETY FLOOR EXTN	1	1	-	-	-	-
47	49		9006039-03		SCREW,MACH TRUSS PHIL 8-	5	5	4	4	4	4
48	50		9006660-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
49	51		9006690-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
50	52		9006563-00		NUT,HEX EXT TOOTH LCKWSHR 8-32	5	5	10	10	10	10
51	53	C-IA-7011547-0-0	7011547-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
52	54		9006370-08		SCREW,CAP SOC HEX 1/4-	4	4	4	4	4	4
53	55	A-PS-3700340-0-0	3700340-02		PKG CABINET TU77 MAGTAPE FIVE PA	1	1	1	1	1	1
54	56	E-AD-7017143-0-0	7017143-00		FAN ASSEMBLY TU78	1	1	1	1	1	1
55	57	A-PS-1217916-0-0	1217916-02		FAN,TUBE AXIAL 4.5" 120CFM 230V	1	1	1	1	1	1
56	58	D-MD-7423407-0-0	7423407-00		AIR DUCT	1	1	1	1	1	1
57	59	A-PS-1210263-0-0	1210263-00		GUARD,FINGER 4.125 X 4.125 MTG H	1	1	1	1	1	1
58	60		9006331-08		SCREW,CAP SOC HEX 6-	4	4	4	4	4	4
59	61		9007801-00		WASHER,HELICAL SPLIT SST	4	4	4	4	4	4
60	62		9009165-00		CLIP, FAN MOUNTING (12-05033 FAN	3	3	3	3	3	3
61	63		9006659-00		WASHER,FLAT S/PAS	4	4	4	4	4	4
62	64		9006026-01		SCREW,MACH PAN PHIL 6-	4	4	4	4	4	4
63	65	E-UA-BC06S-0-0	BC06S-25		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
64	66	C-MD-7423392-0-0	7423392-00		STOP FORMATTER	-	-	1	1	1	1
65	67		9007090-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
66	68	E-UA-TM78-BB	TM78 -BB		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
67	69	D-AD-7009938-0-0			TERMINATOR ASSEMBLY (80-RJPO4)	0	-	2	2	1	1
68	70	A-PS-3617674-0-0	3617674-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
69	71	A-PS-3613211-0-0			DECAL,CLEAR PREPRINTED CSA 1-1/4	-	1	-	1	-	1
70	72	A-DC-7414213-0-0	7414213-00		STICKER VT50 UL	-	1	-	1	-	1
71	73	A-PS-3615710-0-0	3615710-00		LABEL,PAPER FORM FEED	1	1	1	1	1	1
72	74		9007091-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
73	75		9007867-00		MOUNT, PUSH,CABLE TIE	12	12	12	12	12	12
74	76		9007032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	24	24	24	24	24	24
75	77		9009318-00		CLAMP,CABLE,SCREW MTD 3 "	1	1	1	1	1	1
76	79	C-IA-7423398-0-0	7423398-00		C/CABLE	-	-	2	2	2	2
77	80	C-MD-7423397-0-0	7423397-00		GUARD CABLE	-	-	1	1	1	1
78	81	D-IA-7017382-C-0	7017382-08		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							TU78 TAPE DRIVE				K	PL	TU78-0-DBP	M

PARTS LIST

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:					
						AF	AJ	AB	AD	BB	BD
79	82		9007084-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
80	83	D-MD-7414403-0-0	7414403-00		STRIP TOP FILLER (INTER-CAB)	1	1	-	-	-	-
81	84	D-IA-7011838-0-0	7011838-00		FILLER STRIP ASSY. (INTERCAB)	2	2	-	-	-	-
82	86		9008007-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
83	87	D-IA-7017382-0-0	7017382-15		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
84	88		9006055-01		SCREW,MACH PAN PHIL 1/4-	4	4	-	-	-	-
85	89		9008203-00		NUT,HEX EXT TOOTH LCKWSHR 1/4-20	4	4	12	12	12	12
86	90	A-PS-3613272-0-0	3613272-00		LABEL,ADH BACK,MYLAR CAP	7	7	7	7	7	7
87	91	C-IA-7008288-0-0	7008288-8F		CABLE ASSY PDP-11	1	1	-	-	-	-
88	92		9009636-00		CLAMP,CABLE ADH MNT	-	-	5	5	5	5
89	93		9006071-03		SCREW,MACH TRUSS PHIL 10-	15	15	17	17	17	17
90	94	D-MD-7424085-0-0	7424085-00		PANEL, FILLER REAR	1	1	-	-	-	-
91	95	D-IA-7017558-0-0	7017558-00		PANEL ASSY REAR WITH FOAM	1	1	1	1	1	1
92	96	D-IA-7017559-0-0	7017559-00		BAFFLE ASSY REAR WITH FOAM	5	5	5	5	5	5
93	97	E-AD-7017456-0-0	7017456-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
94	98	A-PS-1217915-0-0	1217915-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
95	99	D-IA-7017528-0-0	7017528-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
96	100	D-AD-7017521-0-0	7017521-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
97	101		9009157-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
98	102		9008929-00		CLAMP,WORM GEAR ACCOM	1	1	1	1	1	1
99	104		9007089-00		CLAMP,CABLE,SCREW MTD. 3/4 "	1	1	1	1	1	1
100	106	A-PS-1217720-0-0	1217720-03		FOAM,ACOUSTIC,ADH BACK,48.0X4.0X	4	4	4	4	4	4
101	105		9006664-00		WASHER,FLAT SST	2	2	8	8	8	8
102	103	C-IA-7415578-0-0	7415578-00		GROUND STRAP	1	1	1	1	1	1
103	107		9007906-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
104	108		7424633-00		BAR,SLIDE ASSY	1	1	1	1	1	1
105	109		7424634-00		BRKT,DOOR PIVOT	1	1	1	1	1	1
106	110		7424635-00		BRKT,FRAME DOOR	1	1	1	1	1	1
107	111		9006714-00		WASHER,FLAT NYLON	2	2	2	2	2	2
108	112	A-PS-1217875-0-0	1217875-00		SCREW,SHLD CAP SOC 10-	1	1	1	1	1	1
109	113		9006073-01		SCREW,MACH PAN PHIL 10-	3	3	3	3	3	3
110	114		9010251-00		LOCK,SPRING	1	1	1	1	1	1
111	115		9008010-01		SCREW,MACH PAN PHIL 10-	1	1	1	1	1	1
112	116		9010254-00		PLUG,CAP	1	1	1	1	1	1
113	117		9107827-01		TUBING,POLYU .7500D	A/R	A/R	A/R	A/R	A/R	A/R
114	118	BLANK	00000-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
115	119		7424075-00		BRACKET, SAFETY INTERLOCK SW.	1	1	1	1	1	1
116	120		4901157-00		ADHESIVE,ACRYLIC RESIN,ETHYL CYA	A/R	A/R	A/R	A/R	A/R	A/R
117	121		9906641-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
118	122		9906641-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
119	123		9906641-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
120	124	A-PS-1218197-0-0	1218197-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
121	125	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
122	126		7424118-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
123	127		9906642-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
124	128		9006250-09		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
125	129		9006784-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
126	130		9006243-09		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TU78 TAPE DRIVE			K	PL	TU78-0-DBP	M

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:					
						AF	AJ	AB	AD	BB	BD
127	131		9906354-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
128	132		9906185-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
129	133		9905128-17		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
130	134	QUANTITY IS IN FT.	9906488-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
131	135		9906355-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
132	136	A-PS-3616847-00-0	3616847-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
133	137	A-PS-3616848-0-0	3616848-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
134	138	A-PS-3616946-0-0	3616946-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
135	139	A-PS-3616946-0-0	3616946-01		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
136	140	A-PS-3616946-0-0	3616946-02		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
137	141		9905016-06		CARTON,DIE CUT	1	1	1	1	1	1
138	142		4700038-00		CRIMPER,TAPE 1/2" MAG. AUTO LOAD	-	-	1	1	1	1
139	143		2200011-00		CLEANING KIT,DEC MAGTAPE	1	1	1	1	1	1
140	144		1809543-03		/REPLACED BY 30-18709-08	1	1	1	1	1	1
141	145	A-PS-1700199-0-0	1700199-04		PWR CORD,TERM 3-1.5 MM 250	-	1	-	1	-	1
142	146	EK-OTU78-UG			TU78-MT TRANSPORT USERS GUIDE	1	1	1	1	1	1
143	147	EK-QTM78-UG			TM78-MT FORMATTER USERS GUIDE	REF	REF	REF	REF	REF	REF
144	148	A-PS-3617878-0-0	3617878-01		LABEL,MID REEL LOAD	1	1	1	1	1	1
145	149	A-PS-3618036-0-0	3618036-01		LABEL,FOUR LANGUAGES	1	1	1	1	1	1
146	150	A-PS-3611382-0-0	3611382-00		NUMBER LABELS, 0 TO 7, ON PRESS	1	1	1	1	1	1
147	151		9010262-00		BOLT ,MACH HEX 1/2-	4	4	4	4	4	4
148	152		9009025-00		WASHER,FLAT SST	2	2	2	2	2	2
149	153	A-PS-3616378-0-0	3616378-00		LABEL, INDENT. *47-0003B	-	-	1	1	1	1
150	154	A-PS-3618429-0-0	3618429-01		LABEL,TAPE THREAD'G INSTRUCTIONS	1	1	1	1	1	1
151	155	E-MD-7425626-0-0	7425626-00		SEAL,REAR DOOR EM1	1	1	1	1	1	1
152	156	E-MD-7425628-0-1	7425628-01		SEAL,REAR DOOR,EM1	1	1	1	1	1	1
153	157	E-MD-7425629-0-0	7425629-00		SEAL,FRONT COVER EM1	1	1	1	1	1	1
154	158	E-MD-7425629-0-1	7425629-01		SEAL,FRONT COVER,EM1	1	1	1	1	1	1
155	159	E-MD-7425630-0-0	7425630-00		PANEL,CABINET SIDE EM1	1	1	-	-	-	-
156	160	E-MD-7425631-0-0	7425631-00		SEAL,FRONT TOP EM1	1	1	1	1	1	1
157	161	E-MD-7425632-0-0	7425632-00		SEAL,TOP COVER REAR EM1	1	1	1	1	1	1
158	162	E-MD-7425633-0-0	7425633-00		SEAL,FRONT CAB CENTER EM1	1	1	1	1	1	1
159	163	E-MD-7425673-0-0	7425673-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
160	164	C-MD-7425675-0-0	7425675-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
161	165	C-MD-7425674-0-0	7425674-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
162	166		9006241-09		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
163	167		9007035-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
164	168		BC06Z-YA		CABLE, MASSBUS SHIELDED, STRAIGH	-	-	1	1	1	1
165	169		9007092-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
166	170		9006073-03		SCREW,MACH TRUSS PHIL 10-	20	20	-	-	-	-
167	171		9007649-00		WASHER,LOCK EXTERNAL STEEL	9	9	9	9	9	9
168	172		9006021-03		SCREW,MACH TRUSS PHIL 6-	9	9	9	9	9	9
169	173		7018620-00		TOP COVER (REWORK EMT)	1	1	1	1	1	1
170	174	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
171	175	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
172	176	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
173	177		9007087-00		*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
174	178	A-PS-3618307-0-0	3618307-05		CLAMP,CABLE,SCREW MTD. 5/8 "	2	2	2	2	2	2
					ASSY,04,01	1	-	1	-	1	-

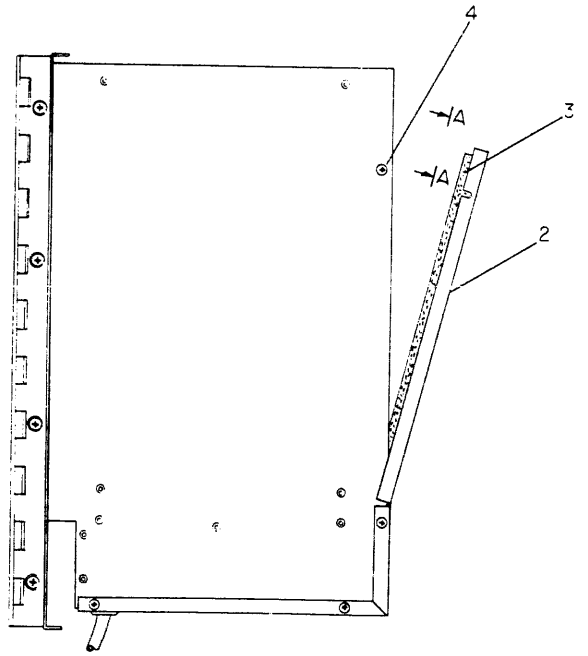
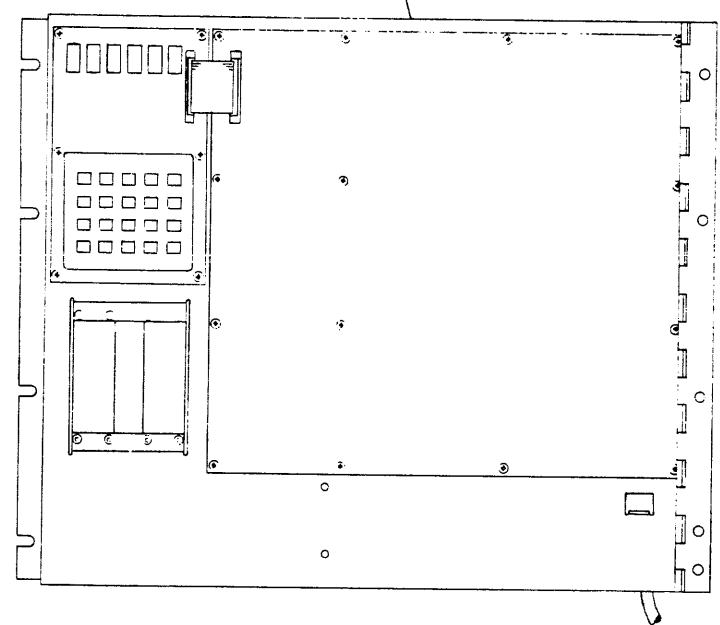
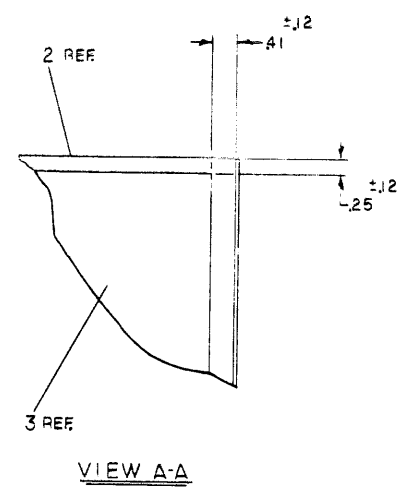
D	I	G	I	T	A	L	TITLE	SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							TU78 TAPE DRIVE				K	PL	TU78-0-DBP	M

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION					
						AF	AJ	AB	AD	BB	BD
175	179	A-PS-3617880-0-0	3617880-03		LABEL,FCC,CLASS A,PERIPHERAL	1	0	1	-	1	-
176	180	A-PS-3618331-0-0	3618331-01		LABEL,FCC CARTON 6"X3 "	1	1	1	-	1	-
177	181		9905734-01		STRAPPING,POLYESTER	A/R	A/R	A/R	A/R	A/R	A/R
178	182		3618694-01		LABEL,ATTENTION ALTI.RANGE TU78	1	1	1	1	1	1
179	183		3617674-00		LABEL,SERIAL/POWER W/O UL + CSA	-	2	-	2	-	2
180	184	BLANK				-	0	0	0	0	0
181	185		7008288-25		CABLE ASSY 25FT	-	-	1	1	1	1
182	186		9906914-01		FOL,C,275PSI	-	-	1	1	1	1
183	167		TM78 -C		DUAL ACCESS ADAPTER,NO MASSBUS B	-	-	-	1	-	1
184	188		7426633-01		SPRING,RETAINER	1	1	1	1	1	1
185	189		7412827-25		GND STRAP	-	-	1	1	1	1
186	190		9007622-00		GROMMET,CATERPILLAR POLYAMIDE	-	-	1	1	1	1
187	191		9009617-00		TIE,CABLE BUNDL.DIA 0-3"TYPE=101	3	3	3	3	3	3
188	192		9007786-01		RETAINER,U-NUT 10-32X	75	75	79	79	79	79
189	193		9009357-00		TAPE,MASKING ADH 2.0 WDX .00	A/R	A/R	A/R	A/R	A/R	A/R
190	194		9009341-00		TAPE,MASKING ADH 1.0 WDX .00	A/R	A/R	A/R	A/R	A/R	A/R
191	195		3618844-01		LABEL,SERVICE TU78	1	1	1	1	1	1
192	196		9006072-03		SCREW,MACH TRUSS PHIL 10-	1	1	1	1	1	1
193	197		9008341-00		CLIP,PVC HARNESS, DESKLASP,1"WID	2	2	2	2	-	-
194	198	A-PS-3700690-0-0	3700690-02		PKG CABINET H9600 MAGTAPE SERIES	-	-	1	1	1	1
195	199	A-PS-3700690-0-0	3700690-01		PKG CABINET H9600 MAGTAPE SERIES	1	1	-	-	-	-
196	200		3620481-01		LABEL,PORT TU78	1	1	1	1	1	1
197	201		1213715-00		CLIP,FLAT CABLE W/ADHESIVE BK	-	-	4	4	4	4
198	202		7427030-01		CLAMP	-	-	3	3	3	3
199	203		7427029-01		BRACKET,CABLE	-	-	1	1	1	1
200	204		7427031-01		PANEL,CABLE,MASS BUS	-	-	1	1	1	1
201	205		7019786-00		PANEL ASSY MASS BUS	-	-	1	1	1	1
202	206		7427430-01		SHIELD,SAFTEY	-	-	1	1	1	1
203	207		7427431-01		SHIELD,CABLE	-	-	3	3	3	3
204	208		7427432-01		CLAMP,CABLE,MASSBUS	-	-	4	4	4	4
205	209		9009545-01		SCREW,SEMS PAN PHIL 8-	-	-	8	8	8	8
206	210		7009861-00		RECEPT HOUSING ASSY-RP04	-	-	2	2	2	2
207	211		9006010-01		SCREW,MACH PAN PHIL 4-	-	-	8	8	8	8
208	212		9006613-00		NUT,RELOCK 8-32X .438AF NYLO	-	-	2	2	2	2
209	213		7019926-00		CABLE ASSY (MASSBUS FLAT TU78)	-	-	2	2	-	-
210	214		3618113-01		LABEL,MASS BUS A + B	-	-	1	1	1	1
211	215	BLANK			*** THIS ITEM IS NOT USED ***	-	-	-	-	-	-
212	216		BC06R-08		BC06R I/O CABLE	-	-	2	2	2	2
213	217		BC06R-15		BC06R IO CABLE	2	2	-	-	-	-
214	218		9007086-00		CLAMP,CABLE,SCREW MTD. 9/16"	-	-	1	1	1	1
215	219	C-MD-7428727-0-DBU	7428727-01		COVER,PANEL MASS-BUS	-	-	2	2	-	-
216	220		9008301-01		SCREW,MACH PAN PHIL 4-	-	-	8	8	-	-
217	221	C-MD-7428177-0-DBU	7428177-01		SHIELD,RECEPTACLE	-	-	2	2	4	4
218	222	A-PS-9905016-10	9905016-10		CARTON,DIE CUT,W/O FOAM,C,275SW	-	-	1	1	1	1
219	223	E-UA-BC17M-0-DBU	BC17M-25		25FT DOUBLE SHIELDED MASSBUS CAB	-	-	1	1	2	2

D	I	G	I	T	A	L	TITLE	SECTION A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							TU78 TAPE DRIVE				K	PL	TU78-0-DBP	M

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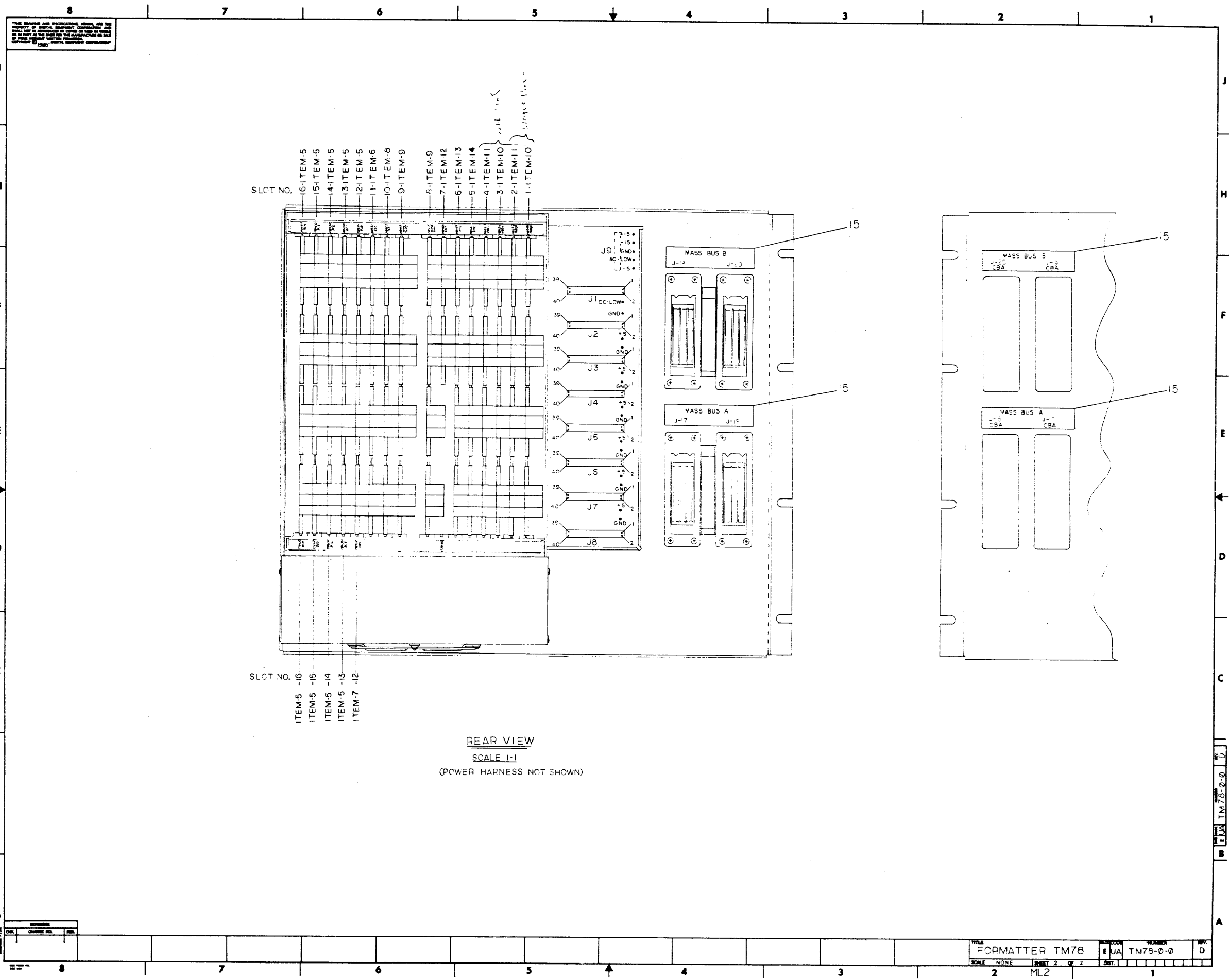
LEGEND	
PART NUMBER	DESCRIPTION
TM78-AB	SINGLE PORT
TM78-BB	DUAL PORT



REV	DATE	BY	DESCRIPTION
1	12/15/79	H.A. OLSON	INITIAL DESIGN
2	1/10/80	H.A. OLSON	REVISED FOR MANUFACTURE
3	1/20/80	H.A. OLSON	REVISED FOR MANUFACTURE
4	1/29/80	H.A. OLSON	REVISED FOR MANUFACTURE
5	2/11/80	H.A. OLSON	REVISED FOR MANUFACTURE
6	2/11/80	H.A. OLSON	REVISED FOR MANUFACTURE
7	2/11/80	H.A. OLSON	REVISED FOR MANUFACTURE
8	2/11/80	H.A. OLSON	REVISED FOR MANUFACTURE

SEE OFF SHEET PARTS LIST
K-PL-TM78-C-DBP

DESCRIPTION		DRAWING NO.		PART NO.		REV.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
DIMENSIONS	INCHES	APPLICABLE DIMENSION RANGE		DIMENSION RANGE IN INCHES			
	TOLERANCES	OVER	UNDER	OVER	UNDER	OVER	UNDER
SURFACE QUALITY	AS SPECIFIED	TO	TO	TO	TO	TO	TO
	AS SPECIFIED	TO	TO	TO	TO	TO	TO
QUANTITY & VARIATION	AS SPECIFIED	AS SPECIFIED	AS SPECIFIED	AS SPECIFIED	AS SPECIFIED	AS SPECIFIED	AS SPECIFIED
THIRD ANGLE PROJECTION	H.A. OLSON		FEB 80		TITLE		
DO NOT SCALE DRAWING	H.A. OLSON		FEB 80		FORMATTER LOGIC ASS'Y		
REMOVE BURRS AND BREAK SHARP CORNERS	H.A. OLSON		FEB 80		DRAWN BY		
MATERIAL	H.A. OLSON		FEB 80		CHECKED BY		
SEE PARTS LIST	H.A. OLSON		FEB 80		DOCUMENT NUMBER		
FINISH	H.A. OLSON		FEB 80		EUA TM78-0-0		
	H.A. OLSON		FEB 80		PAGE 1 OF 2		



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SLOT NO.

SLOT NO.

REAR VIEW
SCALE 1-1
(POWER HARNESS NOT SHOWN)

REV.	DATE	BY	CHK.

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	B-DD-M8956-0	M8956-00	TM78, MASSBUS DATA PORT, QUAD	1
2	2	B-DD-M8957-0-0	M8957-00	TM78, MASSBUS CONTROL, QUAD	1
3	3	D-AD-7009938-0-0	7009938-00	TERMINATOR ASSEMBLY (80-RJP04)	1
4	4		9906084-13	CARTON, DIE CUT, SELF LOCK	REF
5	5		9906564-22	TELESCOPE, MAILER, SETUP	REF
6	6		9906080-00	TRAY, MODULAR	REF
7	7		9906080-01	TRAY, MODULAR	REF
8	8		9906200-00	FILM, ANTISTATIC CELLULAR	REF
9	9		9905729-00	TAPE, PAPER GLUE 3.0 WDX .06	REF
10	10	A-SP-3700613-0-0	3700613-00	PKG. KIT OPTION + M78-C	1
11	11	E-UA-BC06Z-0-0	BC06Z-YA	CABLE, MASSBUS SHIELDED, STRAIGH	1
12	12		9906913-01	RSC, C, 275PSI	REF
13	13		9906914-01	FOL, C, 275PSI	REF
14	14	E-AD-7019926-0-DBU	7019926-00	CABLE ASSY (MASSBUS FLAT TU78)	2
15	15	D-AD-7009861-0-0	7009861-00	RECEPT HOUSING ASSY-RP04	2
16	16		9006010-01	SCREW, MACH PAN PHIL 4-	8

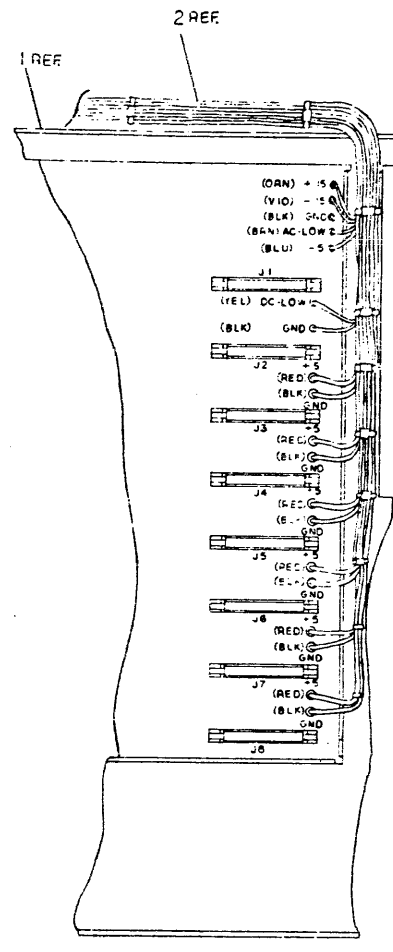
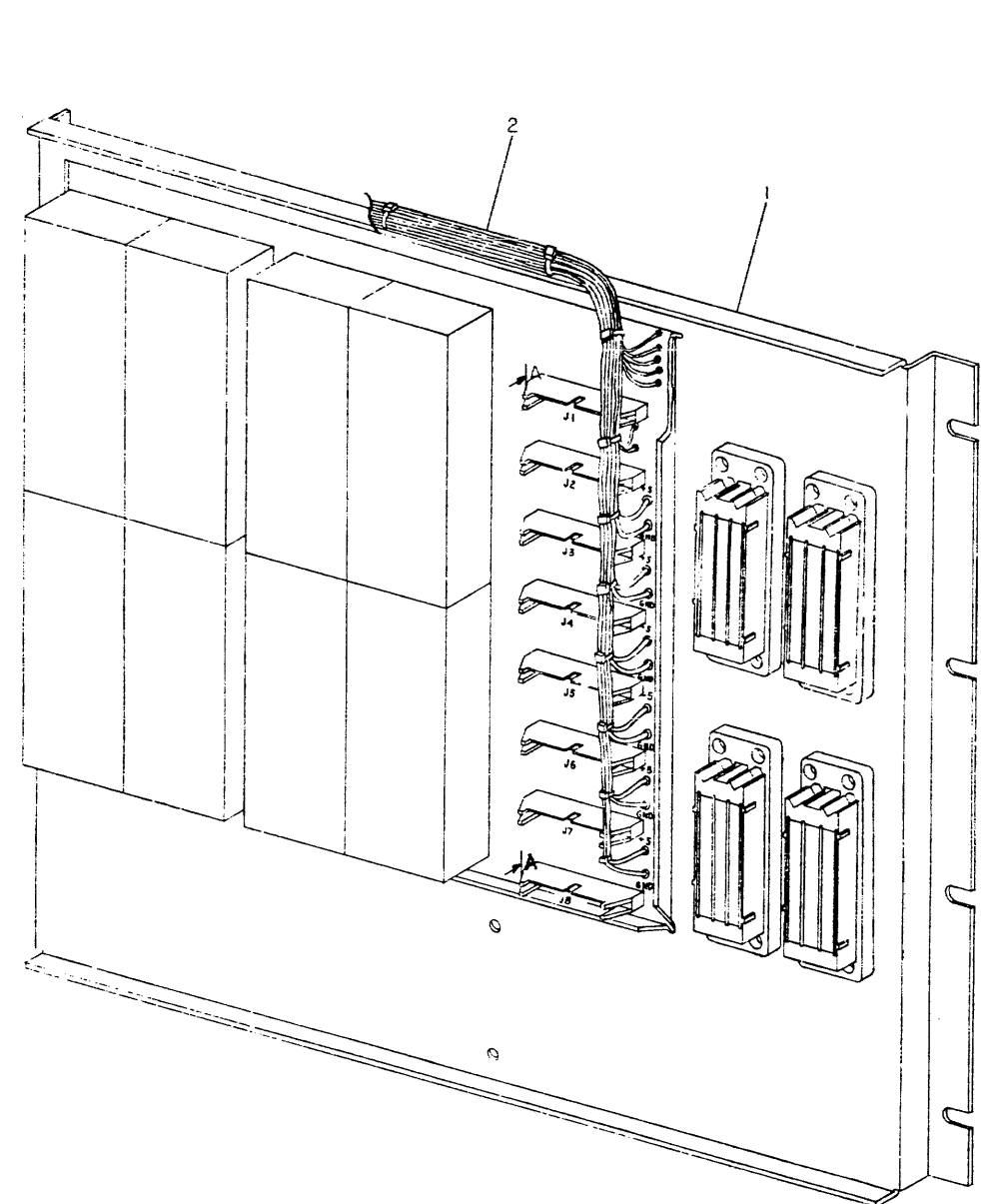
REVISION HISTORY			BASIC PART NO: OTM78		DRN: H.A. OLSON		DATE: 02-DEC-80		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	H.A. OLSON	DATE:	02-DEC-80	TITLE PARTS LIST				
RO	INITIAL TM78C-SH001	A B	SECTION. VARIATION INDEX [A] C	DES. ENG.:	H.A. OLSON	DATE:	02-DEC-80	DUAL ACCESS ADAPTER				
			[B]	RESP. ENG.:	H.A. OLSON	DATE:	02-DEC-80	DOCUMENT NUMBER				
			[C]	MFG. ENG.:	J. HESS	DATE:	02-DEC-80	SIZE	CODE	NUMBER	REV	
			[D]	ASSEMBLY NUMBER:	P. BARTON	DATE:	02-DEC-80	K	PL	TM78-C-DBP	B	
			[E]	TOP DOCUMENT NUMBER:		FILE NAME:					EDIT #	
			[F]			218108.PLS					4	

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CHK. HJ. 43


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NOTES:
SHIP ASSEMBLY IN CARTON
ITEM 3

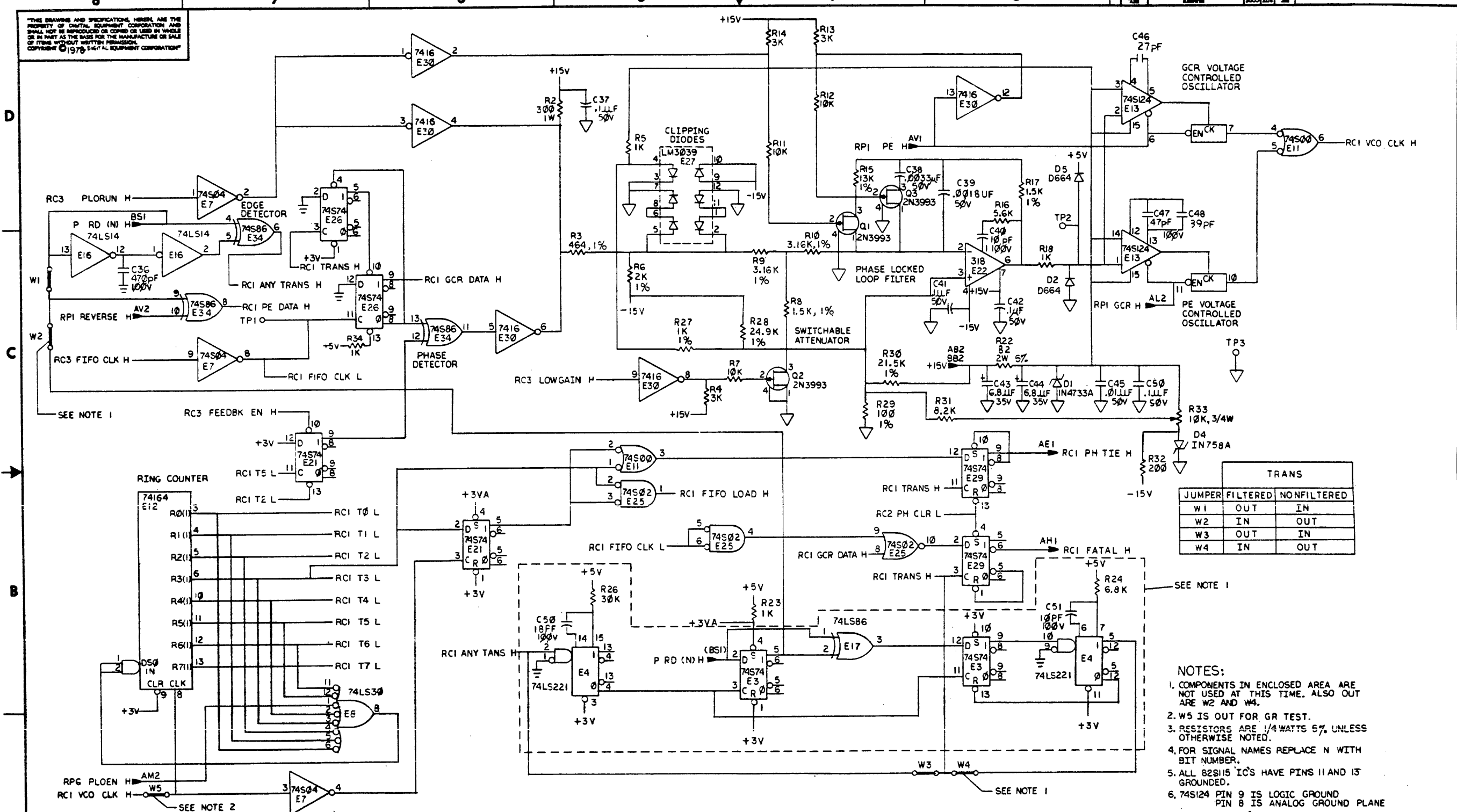


VIEW A-A

SEE OFF SHEET PARTS LIST:
KPL 7017400-0DBP

THIS PANEL INDICATOR 	DESCRIPTION		QTY	INC. PART NO.	ITEM NO.
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
	APPROX.	CLASS OF ACCURACY	MIN.	MAX.	TYP.
SURFACE	FINISH	1.0	2.0	3.0	4.0
QUALITY	CONC. DRG.	1.0	1.0	1.0	1.0
QUANTITY & VARIATION	MICROCHIPS	PREFERRED	1.0K	1.0K	1.0K
DRN. H. A. OLSON	DCT. 7	FIRST USED ON	T-178		
DATE	1-21-78	REV.	1		
PREP. ENG.	J. J. J.	TITLE	WIRED HARNESS ASSEMBLY		
PROJ. NO.	7017400-0DBP	SCALE	1:1		
NEXT HIGHER ASSEMBLY					
E. U. A. M78-0-0	SIZE	CODE	NUMBER	REV.	
SCALE	1:1	ONE	1A17017400-0-0	B	
SHEET	OF	DWG.			

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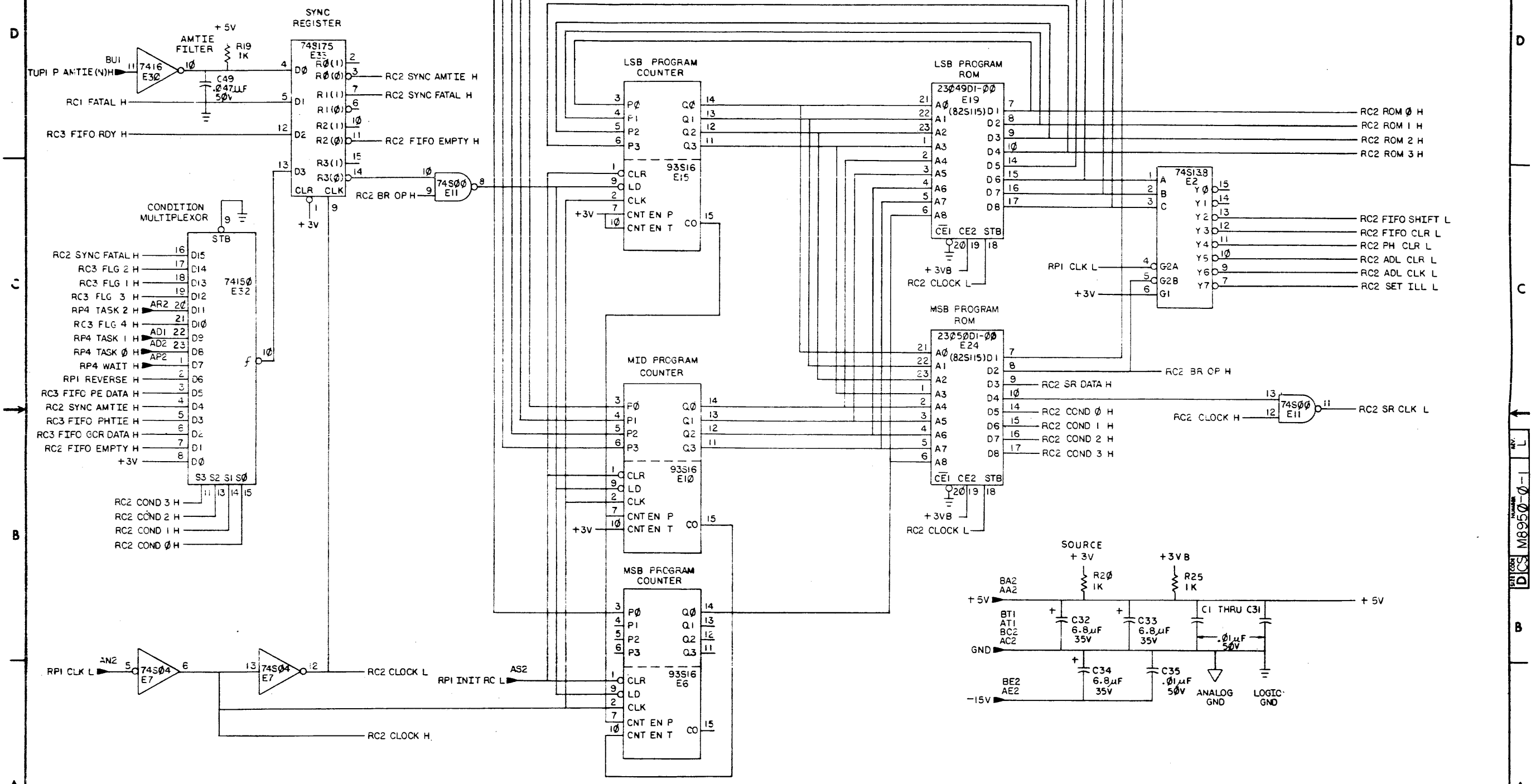
TRANS		
JUMPER	FILTERED	NONFILTERED
W1	OUT	IN
W2	IN	OUT
W3	OUT	IN
W4	IN	OUT

- NOTES:
- COMPONENTS IN ENCLOSED AREA ARE NOT USED AT THIS TIME. ALSO OUT ARE W2 AND W4.
 - W5 IS OUT FOR GR TEST.
 - RESISTORS ARE 1/4 WATTS 5% UNLESS OTHERWISE NOTED.
 - FOR SIGNAL NAMES REPLACE N WITH BIT NUMBER.
 - ALL 82S15 IC'S HAVE PINS 11 AND 13 GROUNDED.
 - 74S124 PIN 9 IS LOGIC GROUND PIN 8 IS ANALOG GROUND PLANE

REV.	DATE	BY	CHKD	DESCRIPTION
1	1/1/78	J		INITIAL DESIGN
2	1/1/78	J		REVISED
3	1/1/78	J		REVISED
4	1/1/78	J		REVISED
5	1/1/78	J		REVISED
6	1/1/78	J		REVISED
7	1/1/78	J		REVISED
8	1/1/78	J		REVISED

DRW: [Signature]	DATE: 3/17/78	FIRST USED ON: TM78	digital
CHK: [Signature]	DATE: 9/18/78	TITLE: READ CHANNEL	
ENG: [Signature]	DATE: 12/27/78	SCALE: 1/1	
PROJ. ENG: [Signature]	DATE: 12/27/78	SIZE: D	CS
NEXT HIGHER ASSY: B-00-M8950-0		NUMBER: M8950-0-1	REV. L
SHEET 1 OF 3		SHO 1	

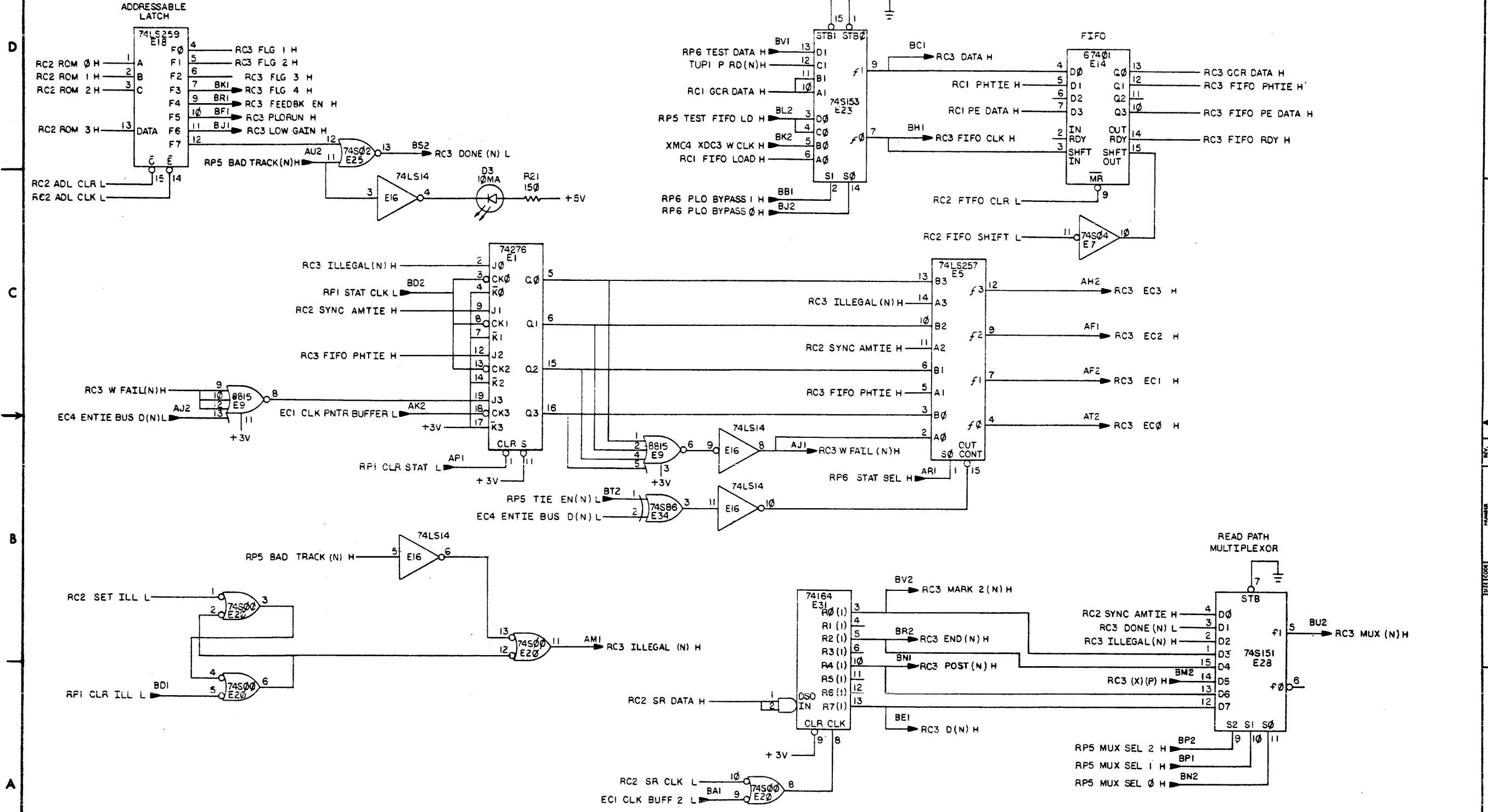
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	READ CHANNEL	SIZE CODE	DCS	NUMBER	M8950-0-1	REV.	L
SCALE	—	SHEET	2 OF 3	DIST.			

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REV. L
PART NO. DCS M8950-0-1

REVISIONS		
CHK	CHANGE NO.	REV.

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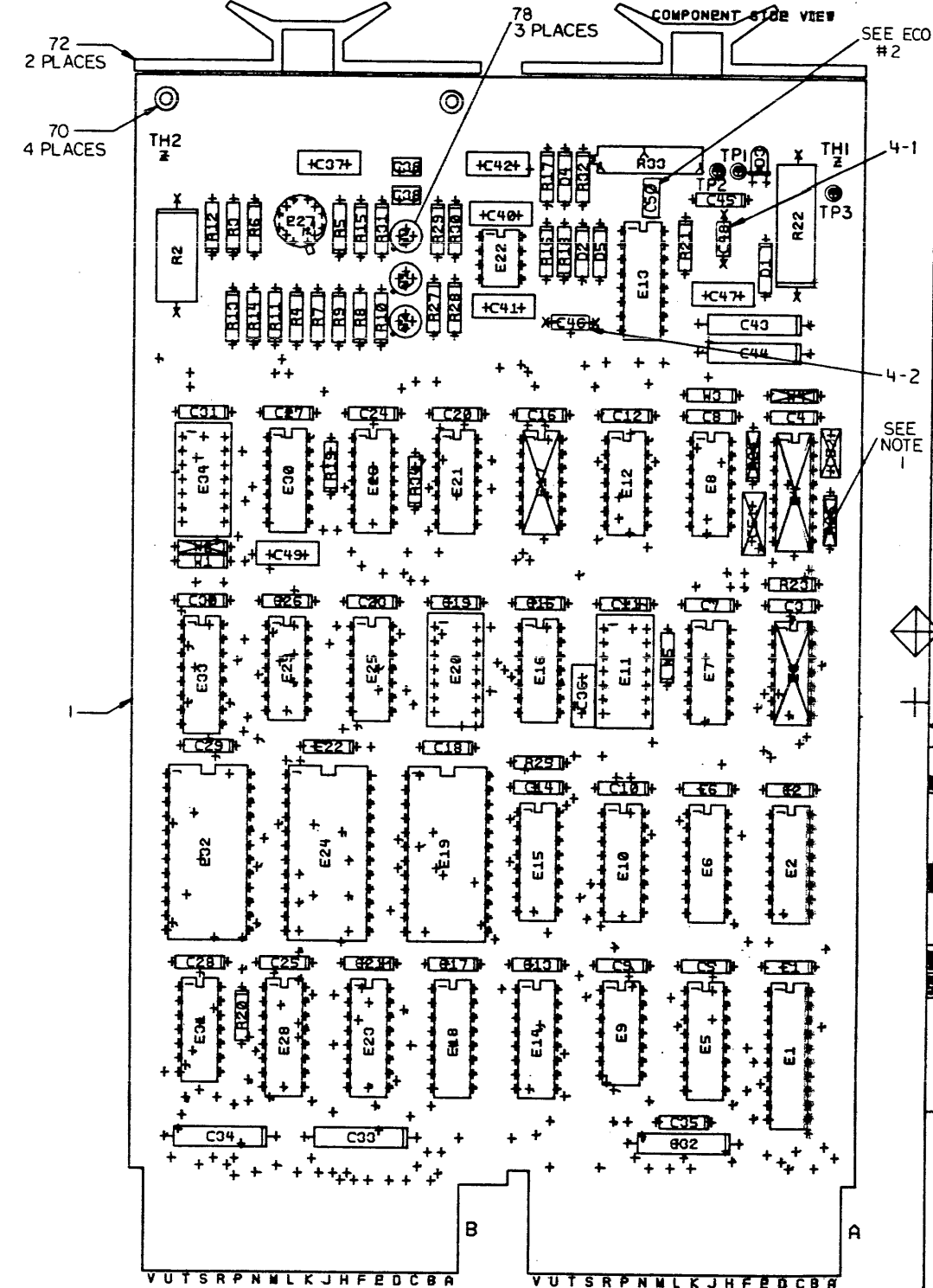
D
C
B
A

ECO #2 REWORK

2-1 BEND LEADS OF CAP. 90°, CUT OFF LEADS LEAVING MINIMUM OF 1/8" AND TACK SOLDER TO BOARD AS SHOWN BELOW. KEEP CAPACITOR AS CLOSE AS POSSIBLE TO THE +VCC PIN ON E13 (+VCC PIN IS DESIGNATED WITH *A* BELOW).

ECO #4, REWORK:

- 4-1. CHANGE C48 CAPACITOR P/N 1014766-00 15.0PF TO 60.0PF TRIMMER CAP. TO CAPACITOR P/N 1000010-00 39.0PF, 100V, 5%.
- 4-2. CHANGE C46 CAPACITOR P/N 1014766-00 15.0PF TO 60.0PF TRIMMER CAP. TO CAPACITOR P/N 1001739-00 27.0PF, 100V, 5%.



NOTES: 1. COMPONENTS CROSSED OUT, E3, E4, E17, R26, C52, R24, C51, W2 & W4 ARE NOT TO BE INSTALLED AT ASSEMBLY.
2. W5 WILL BE INSTALLED AFTER GR TEST.

STEP #	Y AXIS	STEP	TIMES
REPORT	X AXIS	3250	STEP

CHK	CHANGE NO	REV	DATE	BY
	M8950-00	J		
	ANGEL COLON			
	D JERVIS			
	M8950-00	K		
	ROULETTE			
	M8950-00	L		
	ROULETTE			

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

SIGNATURES	DATE	TITLE
DRN. Jim Fitzgerald	12/27/77	digital READ CHANNEL (FOR TM78)
CHK'D. Dave Jones	12/27/77	
PROJ. ENG. [Signature]	12/27/77	
PROD. [Signature]	12/27/77	
SCALE 2/1		
SHT. 1 OF 1		
NEXT HIGHER REV. B-DD-M8950-0		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5012673-00	M8950	1	
2	2		1000006-00	10.0 MMF 100V 5%200PPM MICA	1	C40
3	3		1000011-00	47.0 MMF 100V 5%200PPM MICA	1	C47
4	4		1000024-00	470.0 MMF 100V 5%200PPM MICA	1	C36
5	5		1000043-00	*** THIS ITEM IS NOT USED ***	-	
6	6		1001610-00	.01 MFD 50V +80-20% Z5U CER	33	C1-C31,C35,C45
7	7		1002608-00	*** THIS ITEM IS NOT USED ***	-	
8	8		1005306-00	6.8MFD 35V 10% S.TANT	5	C32-C34,C43,C44
9	9		1010978-32	.047 MFD 50V 10% CER	1	C49
10	10		1010978-36	.1 MFD 50V 10% CER	4	C37,C41,C42,C50
11	11		1011740-01	3300.0 MMF 50V 10% CER	1	C38
12	12		1011740-02	1800.0 MMF 50V 10% CER	1	C39
13	13		1014766-00	*** THIS ITEM IS NOT USED ***	-	
14	14		1100114-00	PIV= 25 IO=135 MA	2	D2,D5
15	15		1100125-00	VZ= 10.0 5% 400 MW 1N758A	1	D4
16	16		1109943-00	VZ= 5.1 5% 1 W 1N4733A	1	D1
17	17		1110324-00	LED 1MCD@10MA PIV=3	1	D3
18	18		1114774-00	SS ARRAY PIV=5/.5 IF= 25MA 6DI	1	E27
19	19		1300247-00	*** THIS ITEM IS NOT USED ***	-	
20	20		1300250-00	150.0 .25 W 5.0 % CF	1	R21
21	21		1300292-00	300.0 1.0 W 5.0 % CC	1	R2
22	22		1300365-00	1.0 K .25 W 5.0 % CF	7	R5,R18,R19,R20,R23,R25,R34
23	23		1300411-00	2.0 K .25 W 1.0 % RN55D-F10	1	R6
24	24		1300479-00	10.0 K .25 W 5.0 % CF	3	R7,R11,R12
25	25		1300496-00	*** THIS ITEM IS NOT USED ***	-	
26	26		1301423-00	*** THIS ITEM IS NOT USED ***	-	
27	27		1317586-00	82.0 2.0 W 5.0 % CC	1	R22
28	28		1301838-00	*** THIS ITEM IS NOT USED ***	-	
29	29		1301874-00	5.60 K .25 W 5.0 % CF	1	R16
30	30		1302394-00	*** THIS ITEM IS NOT USED ***	-	

REVISION HISTORY		BASIC PART NO: M8950		DRN: J.FITZGERALD	DATE: 17-AUG-78	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: D. JERVIS	DATE: 23-OCT-78	TITLE PARTS LIST	
	INIT	H	SECTION VARIATION INDEX	DES.ENG: D. JERVIS	DATE: 23-OCT-78	READ CHANNEL	
DJ	M8950-ML001	J	[A] 00	RESP.ENG.: D.JERVIS	DATE: 28-AUG-79	DOCUMENT NUMBER	
RG	M8950-ML002	K	[B]	MFG.ENG.: P.BARTON	DATE: 28-AUG-79	K	PL M8950-0-DBP
R.O	M8950-SH004	L	[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
			[D]	D-UA-M8950-0-0	#8-DD-M8950-0	Z0861L.PLS	23
			[E]				
			[F]				
			[G]				
			[H]				
			[I]				
			[J]				
			[K]				
			[L]				
			[M]				
			[N]				
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AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A2 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
31	31		1302858-00	100.0			
32	32		1303045-00	3.16 K	.25 W 1.0 *	RN55D-F10	R29
33	33		1303047-00	464.0	.25 W 1.0 *	RN55D-F10	R9,R10
34	34		1303114-00	1.0 K	.25 W 1.0 *	RN55D-F10	R3
35	35		1303155-00	21.50 K	.25 W 1.0 *	RN55D-F10	R27
36	36		1303179-00	8.20 K	.25 W 5.0 *	CF	R30
37	37		1305405-00	24.90 K	.25 W 1.0 *	RN55D-F10	R31
38	38		1309143-10	10.0 K	.75 W10.0 *	POT	R28
39	39		1310635-00	13.0 K	.25 W 1.0 *	RN55D-F10	R33
40	40		1311522-00	200.0	.25 W 5.0 *	CF	R15
41	41		1313590-00	1.50 K	.25 W 1.0 *	RN55D-F10	R32
42	42		1514775-00	2N 3993	FET 300MW	SIP CHNNL	R8,R17
43	43		1909713-00	DEC 8815	NOR GATE-DUAL	4IN	Q1-Q3
44	44		1909928-00	7416	INVERTER GATE-HEX	1I	E9
45	45		1910041-00	DEC 74164	SHIFT REG.,8BIT	SERI	E30
46	46		1910153-00	DEC 74150	MUX 1 OF 16		E31,E12
47	47		1910532-00	74S00	NAND GATE-QUAD	2IN	E32
48	48		1910534-00	74S04	INVERTER GATE-HEX	1I	E11,E20
49	49		1910544-00	74S74	FF-D DUAL,EDGE	TRIGG	E7
50	50		1910735-02	318	OP AMP		E21,E26,E29
51	51		1910956-00	74S151	MUX 1 OF 8		E22
52	52		1910957-00	74S175	FF-D QUAD COMMON	CLO	E28
53	53		1911675-00	74S138	DECODER/DEMUX	3-8 LI	E33
54	54		1911911-00	DEC 74S124	OSCILLATOR,DUAL	VOLT	E2
55	55		1912096-00	DEC 74S86	XOR GATE,QUAD	2IN	E13
56	56		1912388-00	74S02	NOR GATE-QUAD	2IN,PO	E34
57	57		1912647-00	LS257	MUX 1 OF 2 (QUAD)		E25
58	58		1912665-00	***	THIS ITEM IS NOT USED	***	E5
59	59		1912815-00	LS30	NAND GATE-SINGLE	8IN	
60	60		1912829-00	***	THIS ITEM IS NOT USED	***	E8
61	61		1910547-00	74S153	MUX 1 OF 4 (DUAL)		
62	62		1912858-00	***	THIS ITEM IS NOT USED	***	E23
63	63		1912860-00	LS259	LATCH 8BIT		
64	64		1913294-00	93S16	COUNTER,SYNCH	UP BIN	E18
65	65		1913414-00	LS14	INVERTER GATE-HEX	SC	E6,E10,E15
66	66		1914768-00	C 67401J	MEMORY FIFO,SERIAL		E16
67	67		1915367-00	74276	FF-JK QUAD		E14
68	68		23049D1-00	D1-02			E1
69	69		23050D1-00	D1-02			E19
70	70		9006732-00	EYELET,ROLLED	0.1210DX0.219		E24
71	71		9007791-00	TERM PCB	2POS SOLDER,TURRET		
72	72		9008337-06	HANDLE, FLIP CHIP,	MAGENTA		TP1-TP3
73	73		9009185-00	JUMPER, WIRE, INSULATED,	BLACK B		
74	74	D-UA-M8950-0-0		UNIT ASSY			W1,W3,W5
75	75	D-CS-M8950-0-1		CIRCUIT SCHEMATIC		REF	
76	76	D-MD-5012673-0-0		DRILL & ETCH DWG		REF	
77	77	D-EC-5012673-0-0		ETCH CUT DWG		REF	
78	78	USED UNDER Q1-Q3	9009898-00	TRANSIPAD, 4 HOLE		REF	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							READ CHANNEL		K	PL	M8950-0-DBP	L

AUTOMATED BY PRTLST.2E(3)

PARTS LIST

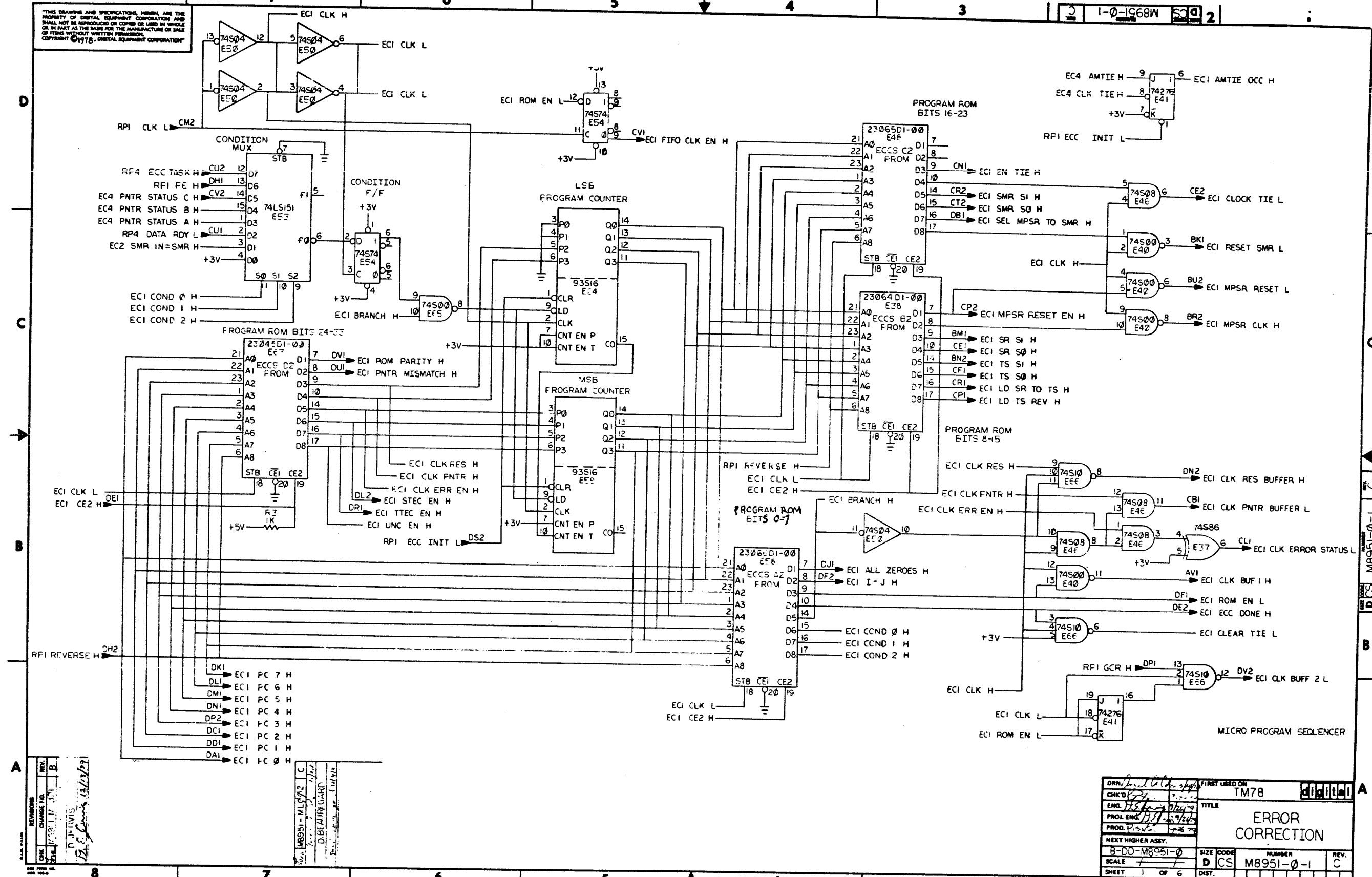
SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
79	79		1300432-00	3.0 K .25 W 5.0 % CF	3	R4,R13,R14
80	80		1000010-00	39.0 MMF 100V 5%200PPM MICA	1	C48
81	81		1001739-00	27.0 MMF 100V 5%200PPM MICA	1	C46

D	I	G	I	T	A	L	TITLE	READ CHANNEL	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8950-0-DBP	L

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1-0-1968W 2

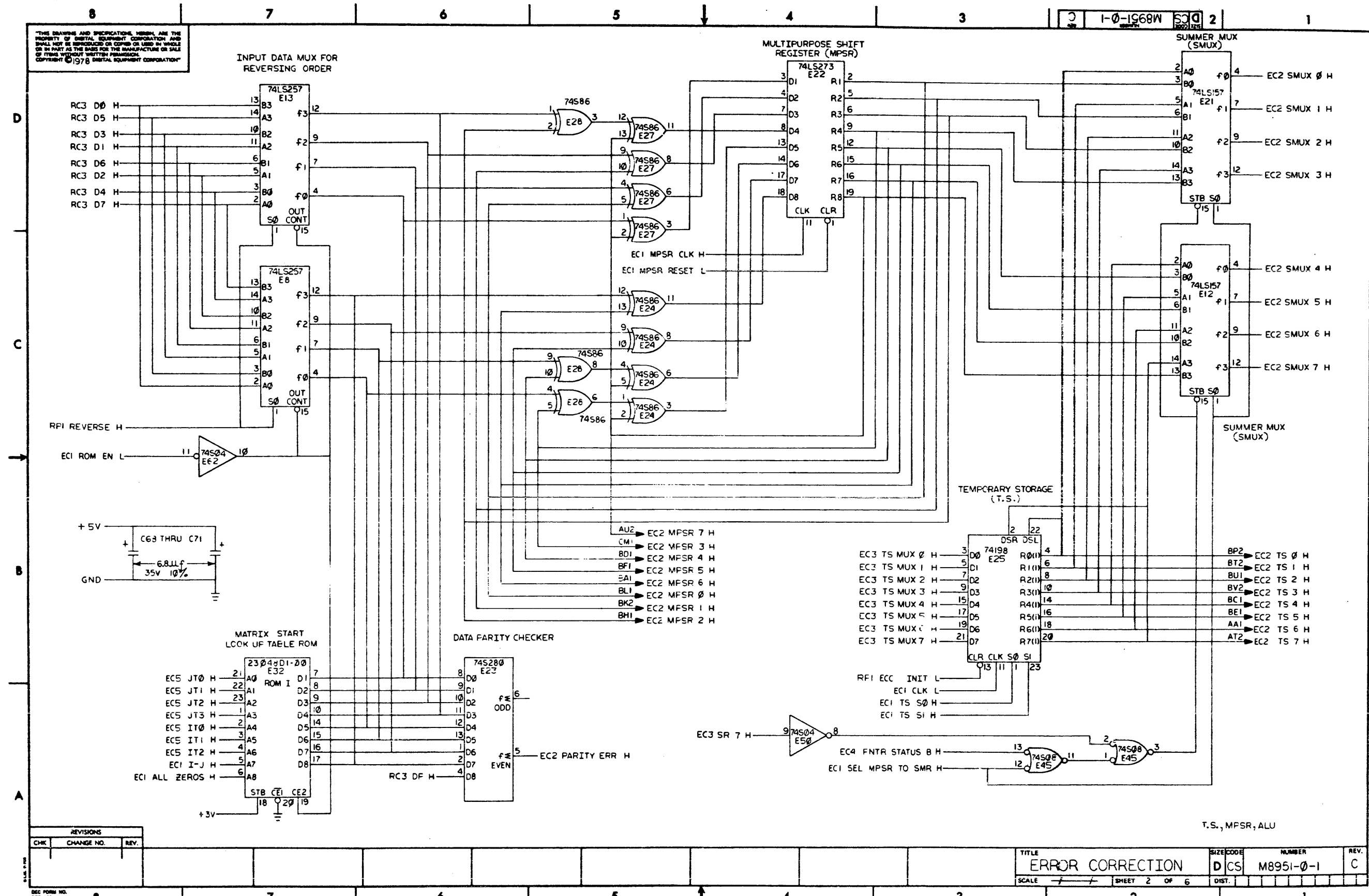


REV.	DATE	BY	CHK
1	11/17/77	J. J.
2	12/1/77	D. J.

DESIGNED BY	MLG/2
CHECKED BY	D. BEAUFRIE/GARD
DATE	11/17/77

ORNL	...	FIRST USED ON	TM78
CHK'D	...	TITLE	ERROR CORRECTION
ENG'D	...	SIZE	D CS
PROJ. ENG.	...	NUMBER	M8951-0-1
PROD. P.	...	REV.	C
NEXT HIGHER ASSY.	B-00-M8951-0	SCALE	1 OF 6
SHEET	1	DIST.	

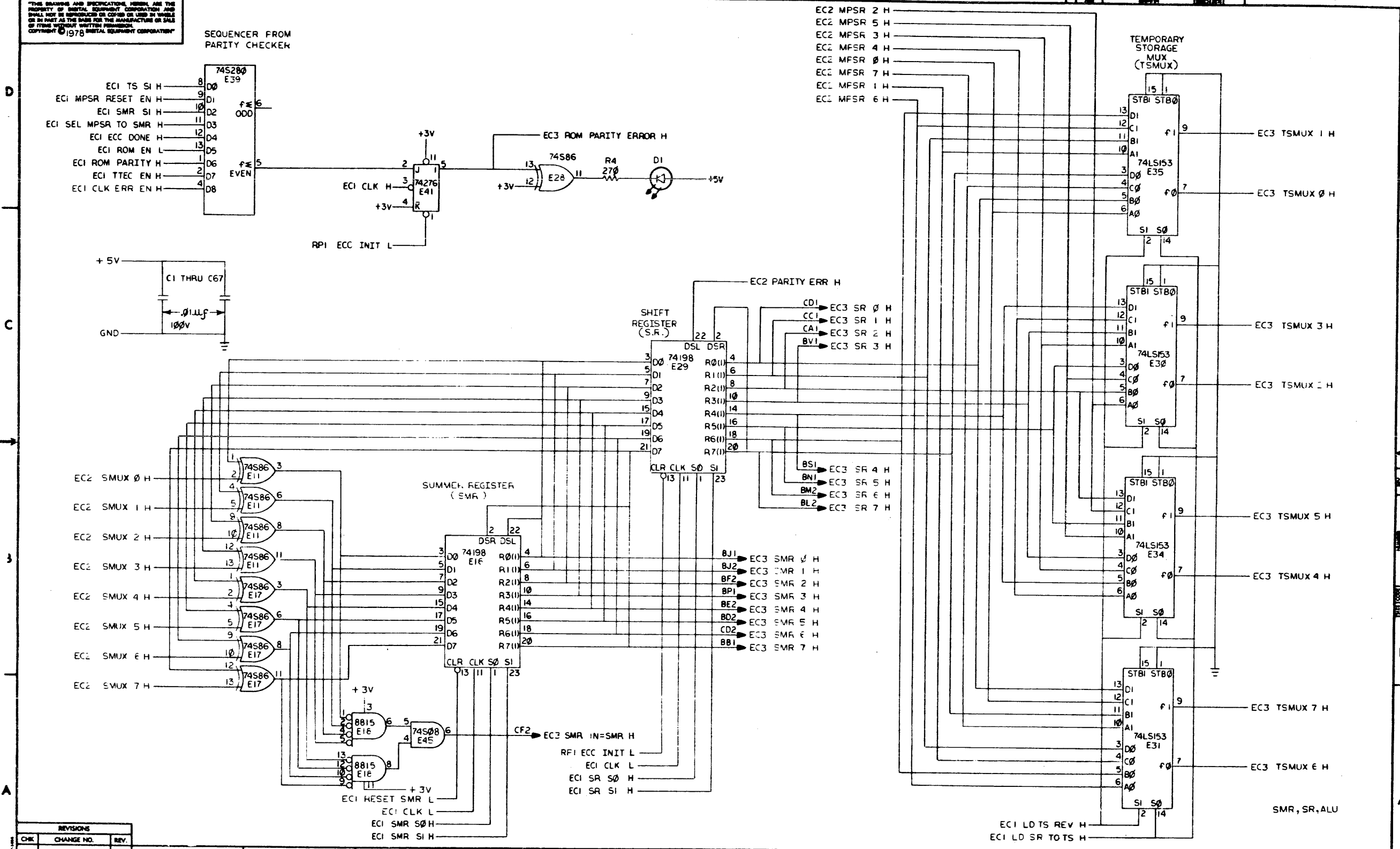
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REVISIONS		
CHK	CHANGE NO.	REV.

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1-0-1968W SC 2

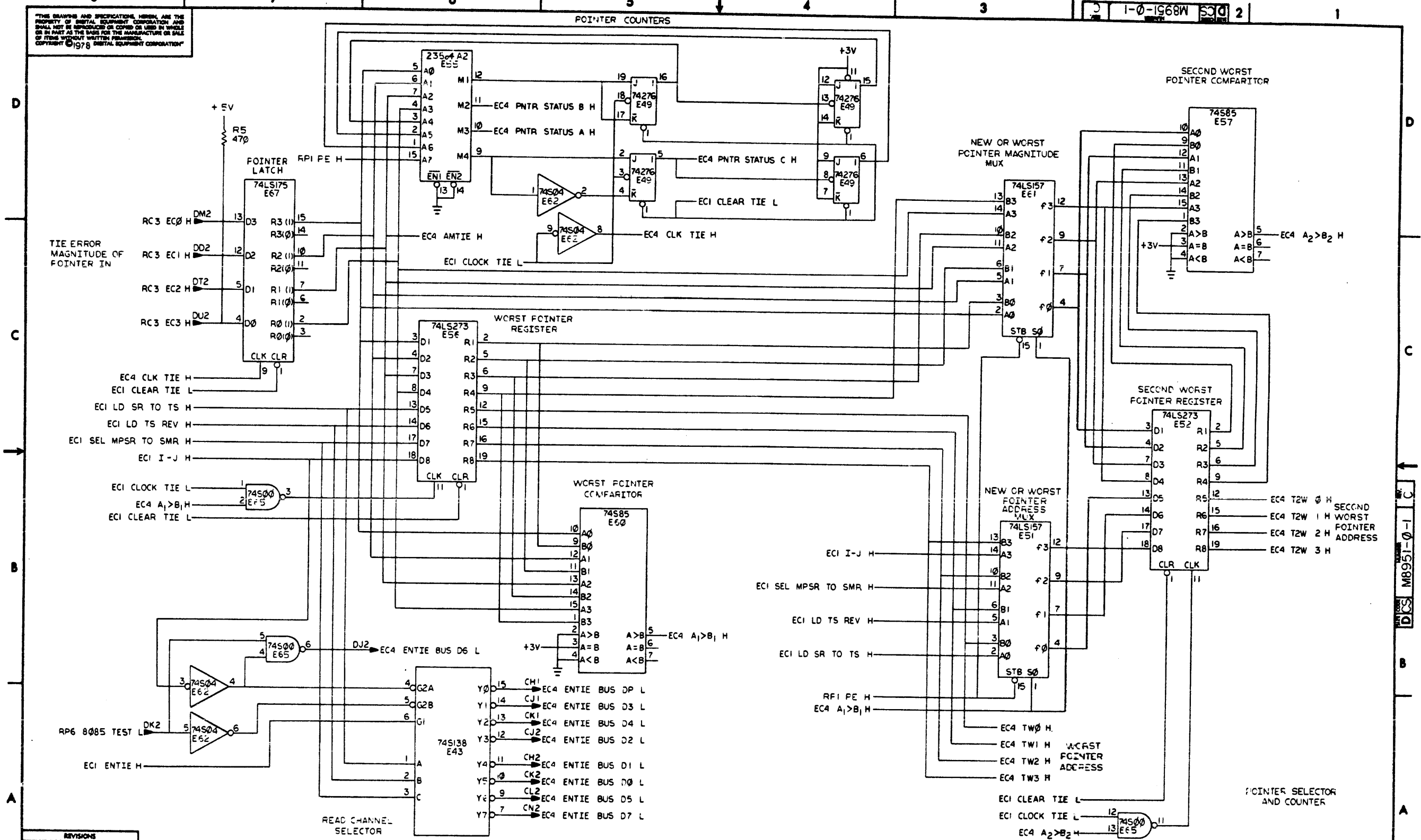


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE ERROR CORRECTION
 SCALE 1:1 SHEET 3 OF 6
 NUMBER M8951-0-1
 REV. C

DCS M8951-0-1

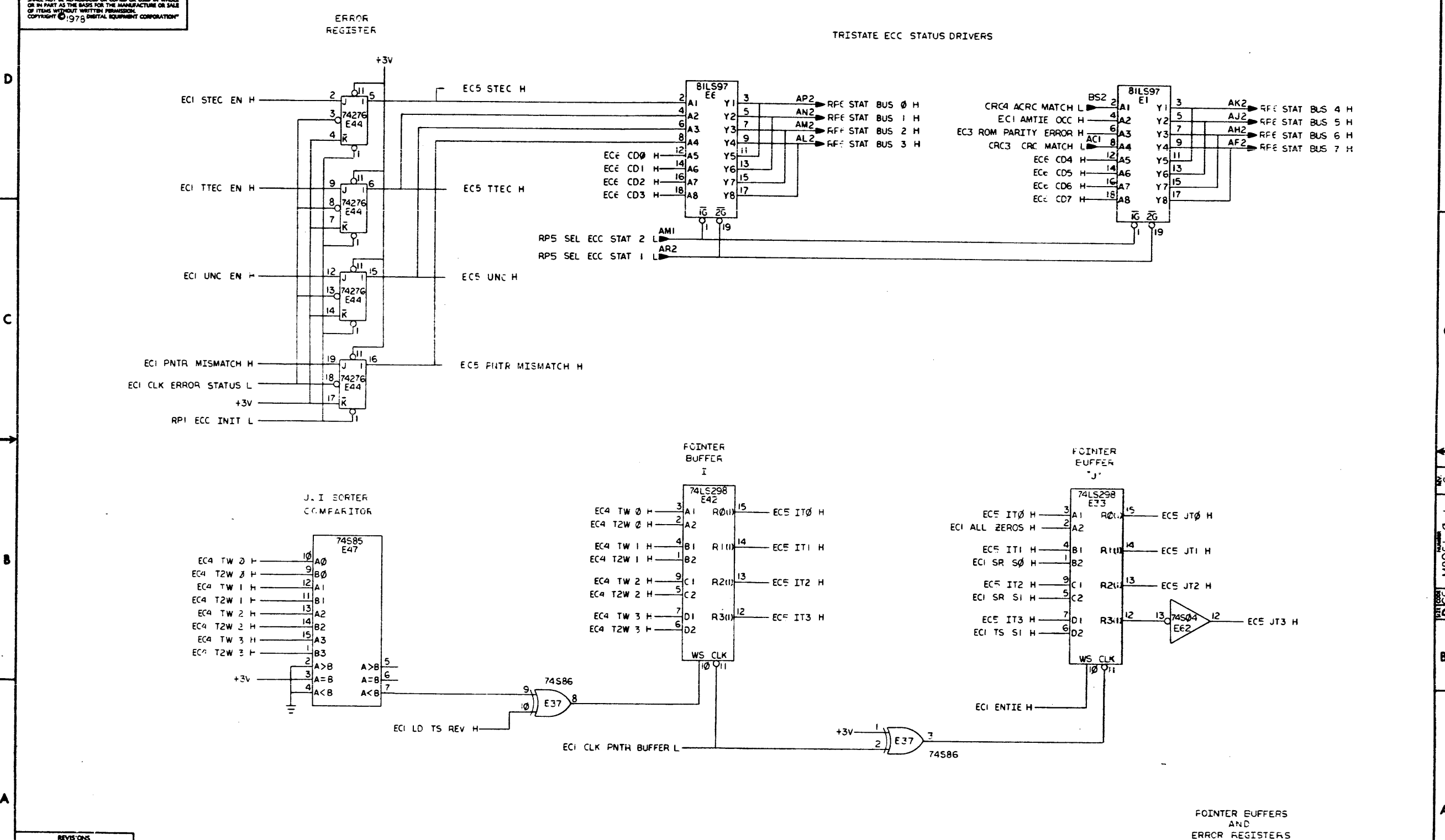
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REVISIONS		
CHK	CHANGE NO.	REV.

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1-0-1968W SQD 2



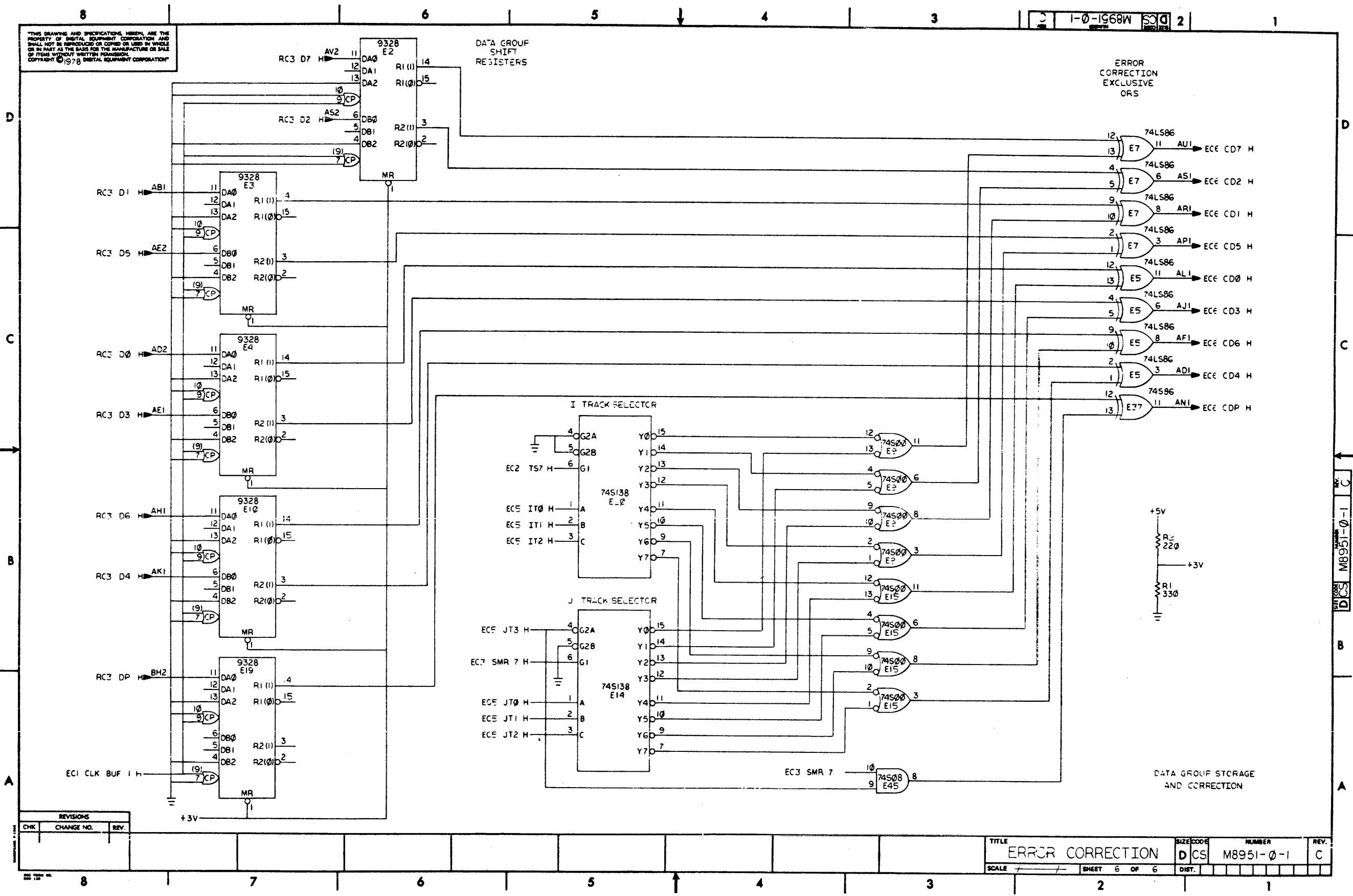
FOINTER BUFFERS AND ERROR REGISTERS

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE/SCALE	NUMBER	REV.
ERROR CORRECTION	D CS	M8951-0-1	C
SCALE	SHEET 5 OF 6	DIST.	

D CS M8951-0-1

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REVISIONS		
CHK	CHANGE NO.	REV.

M8951-0-1

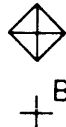
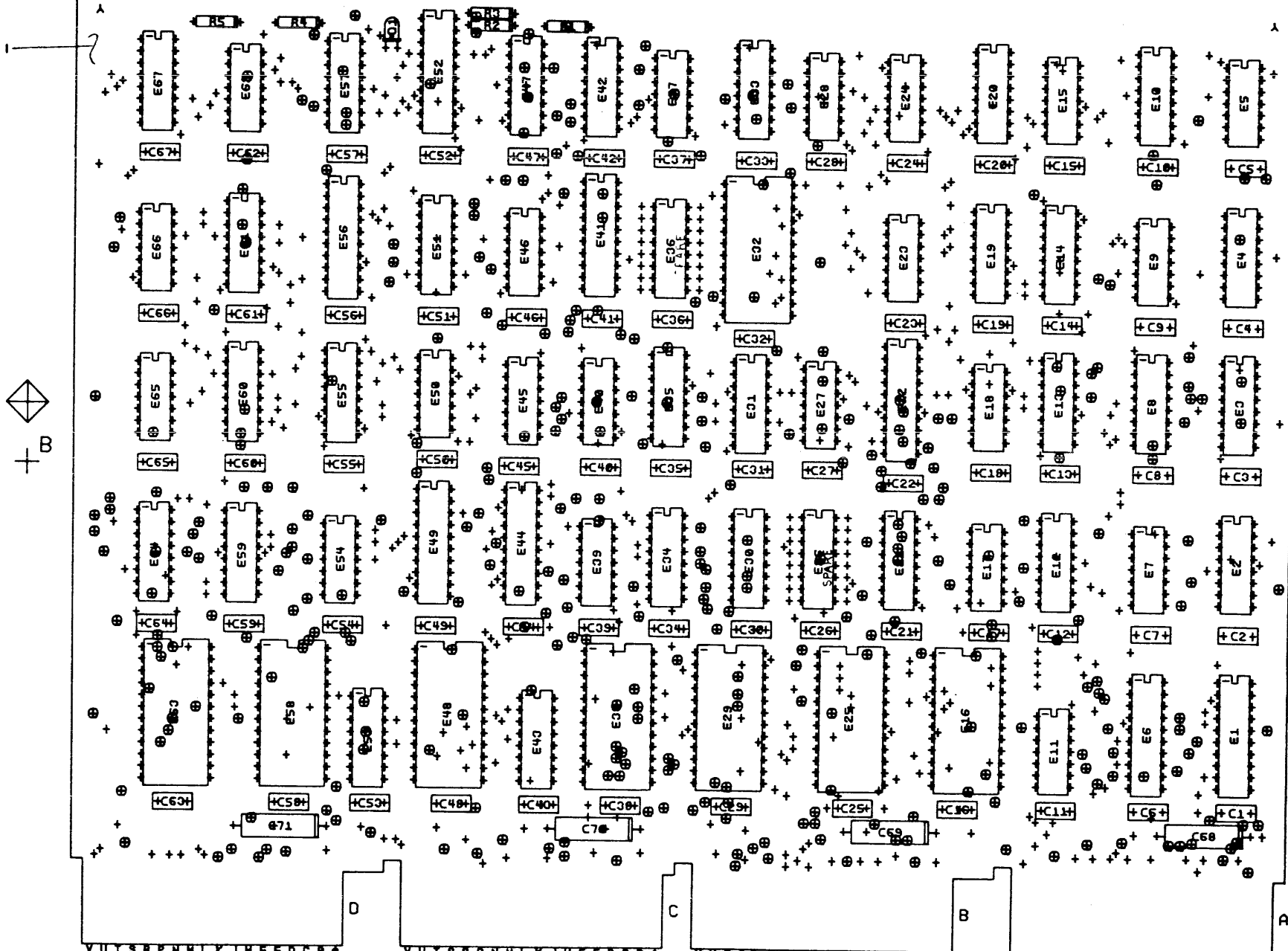
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8 7 6 5 4 3 2 1

0-0-1568W-002



COMPONENT SIDE VIEW



D
C
B
A

D
C
B
A

NOTES:

CHANGE NO	REV	DATE	BY	CHK'D
1	1	7-11-71	D. JEFF	
2	1	7-28-71	D. JEFF	
3	1	8-1-71	D. JEFF	
4	1	8-1-71	D. JEFF	

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

SIGNATURES		DATE	digital
DRN.			
CHK'D.			TITLE EPRCA CORRECTION
ENG.			
PROD. ENGR.			SIZE CODE NUMBER D UA M8 951-0-0 REV C
SCALE			
SHT.			
NEXT HIGHER ASSY. NO. 0-0-1568W-002			

8 7 6 5 4 3 2 1 MS# 11616C

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5013019-00	ERROR CORRECTION	1	
2	2		1915367-00	74276 FF-JK QUAD	3	E44,E49,E41
3	3		1001610-00	.01 MFD 50V +80-20% 25U CER	67	C1-C67
4	4		1005306-00	6.8MFD 35V 10% S.TANT	4	C68-C71
5	5		1110324-00	LED 1MCD@10MA PIV=3	1	D1
6	6		1300271-00	220.0 .25 W 5.0 % CC	1	R2
7	7		1300295-00	330.0 .25 W 5.0 % CC	1	R1
8	8		1300316-00	470.0 .25 W 5.0 % CC	1	R5
9	9		1300365-00	1.0 K .25 W 5.0 % CC	1	R3
10	10		1301972-00	270.0 .25 W 5.0 % CC	1	R4
11	11		1909713-00	DEC 8815 NOR GATE-DUAL 4IN	1	E18
12	12		1910532-00	74S00 NAND GATE-QUAD 2IN	4	E9,E15,E40,E65
13	13		1910534-00	74S04 INVERTER GATE-HEX 1I	2	E50,E62
14	14		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1	E54
15	15		1911392-00	74198 SHIFT REGISTER 8BIT	3	E16,E25,E29
16	16		1911573-00	74S280 PARITY GEN/CHKR,9BIT	2	E23,E39
17	17		1911675-00	74S138 DECODER/DEMUX 3-8 LIN	3	E14,E20,E43
18	18		1912089-00	74S85 CMPRTR-4BIT MAGNITUD	3	E47,E57,E60
19	19		1912095-00	DEC 74S86 XOR GATE,QUAD 2IN	6	E11,E17,E24,E27,E28,E37
20	20		1912389-00	74S08 AND GATE-QUAD 2IN,PO	2	E45,E46
21	21		1912647-00	LS257 MUX 1 OF 2 (QUAD)	2	E8,E13
22	22		1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E66
23	23		1912829-00	LS86 X-OR GATE-QUAD 2IN	2	E5,E7
24	24		1912844-00	LS151 MUX 1 OF 8 & DATA	1	E53
25	25		1912845-00	LS153 MUX 1 OF 4 (DUAL)	4	E30,E31,E34,E35
26	26		1912847-00	LS157 MUX 1 OF 2 (QUAD)	4	E12,E21,E51,E61
27	27		1912853-00	LS175 FF-D QUAD	1	E67
28	28		1912863-00	LS273 FF-D OCTAL W/CLEAR	3	E22,E52,E56
29	29		1912867-00	LS298 MUX 1 OF 4,2IN W/S	2	E33,E42
30	30		1913294-00	93S16 COUNTER,SYNCH UP BIN	2	E59,E64

REVISION HISTORY		BASIC PART NO: M8951		DRN:	STEVE MARLOW	DATE:	07-APR-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	C.BEVERLIE	DATE:	07-APR-78	PARTS LIST			
---	INIT	A	SECTION VARIATION INDEX	DES.ENG:	J.HESS	DATE:	10-AUG-79	TITLE			
DJ	M8951-ML001	B	[A] 00	RESP.ENG.:	D.JERVIS	DATE:	10-AUG-79	DOCUMENT NUMBER			
DB	M8951-ML002	C	[B]	MFG.ENG.:	P.BARTON	DATE:	10-AUG-79	SIZE	CODE	NUMBER	REV
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	M8951-0-DBP	C
			[D]	ID-UA-M8951-0-0		#B-DD-M8951-0					
			[E]								
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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AUTOMATED BY PRTLST.2D(11)

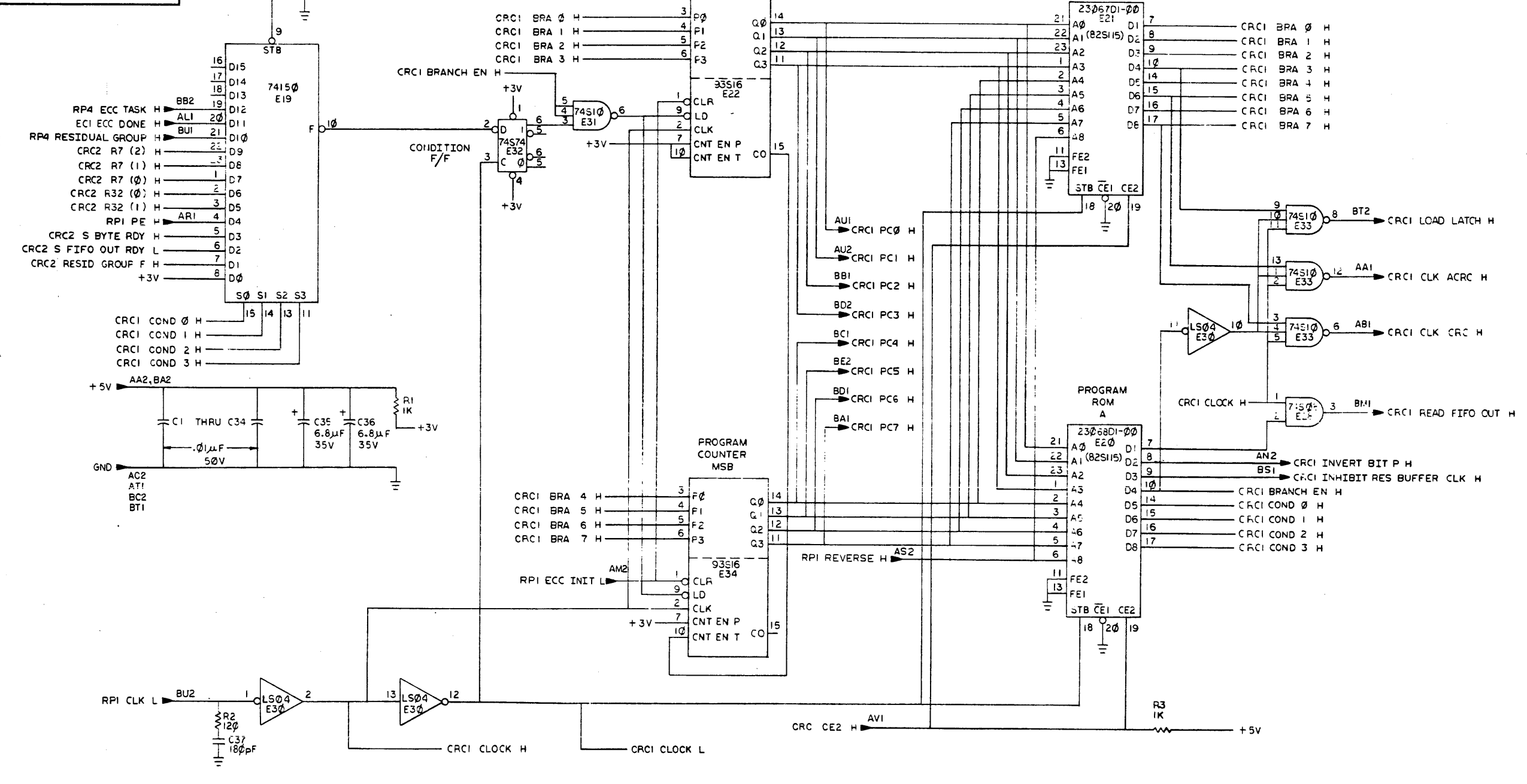
PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1914213-00	81LS97 BUFFER GATE-OCTAL 2I	2	
32	32		1915190-00	9328 SHIFT REGISTER,8BIT-	5	E1,E6
33	33		23000A1-02	*** THIS ITEM IS NOT USED ***	-	E3,E4,E10,E2,E19
34	34		23000A2-07	*** THIS ITEM IS NOT USED ***	-	
35	35		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
36	36		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	8	
37	37		23065D1-00	D1-02	1	E48
38	38		23045D1-00	D1-02	1	E63
39	39		23066D1-00	D1-02	1	E58
40	40		23064D1-00	D1-02	1	E38
41	41		23048D1-00	D1-02	1	E32
42	42		23564A2-00	A2-07	1	E55
43	43	D-UA-M8951-0-0		UNIT ASSY	REF	
44	44	D-CS-M8951-0-1		CIRCUIT SCHEMATIC	REF	
45	45	D-MD-5013019-0-0		DRILL & ETCH DWG	REF	
46	46	D-EC-5013019-0-0		ETCH CUT DWG	REF	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							ERROR CORRECTION		K	PL	M8951-0-DBP	C

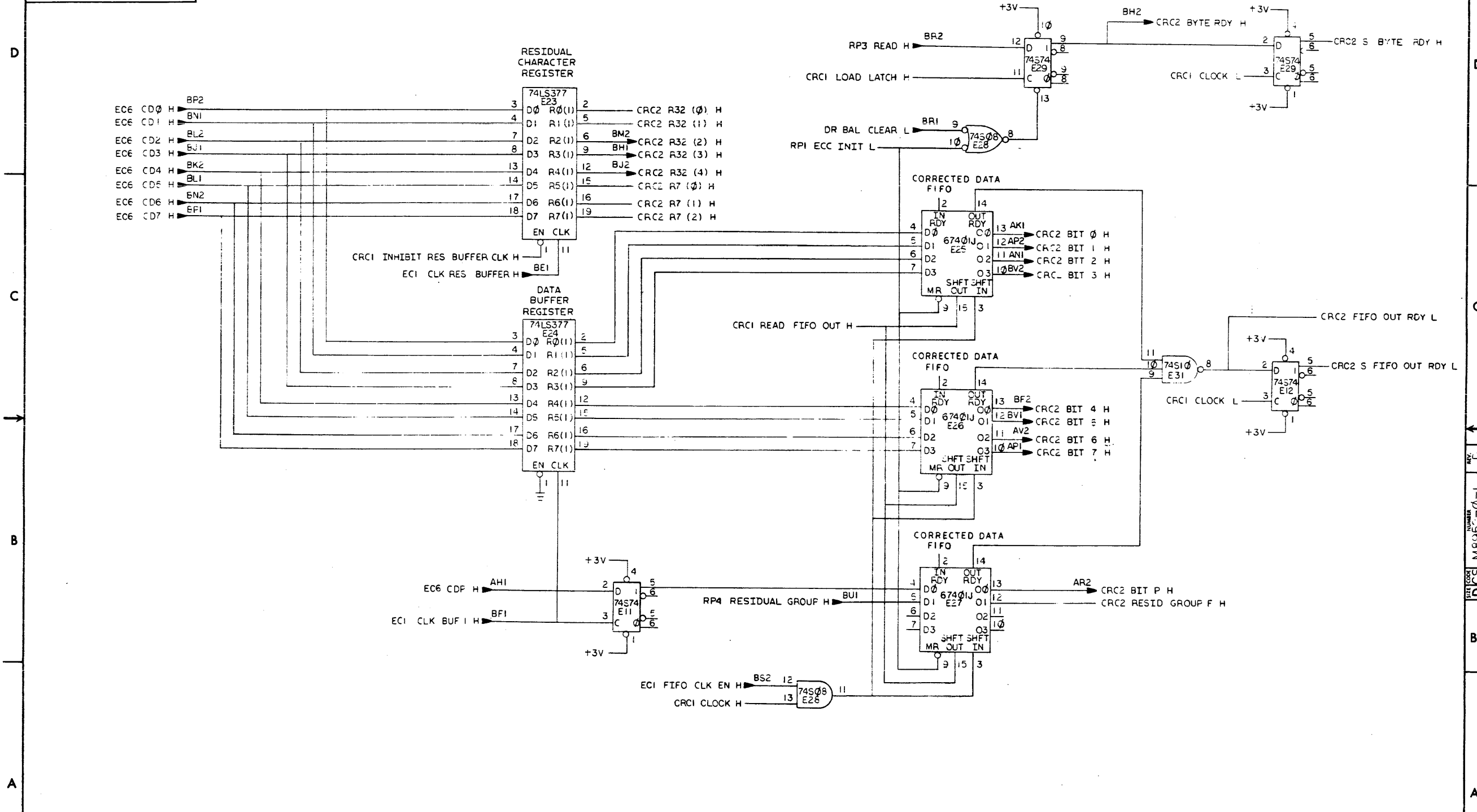
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REV.	CHG.	BY	DATE
1	00552-ML001	B	5/20/78
2	00552-ML001	B	5/20/78
3	00552-ML001	B	5/20/78
4	00552-ML001	B	5/20/78
5	00552-ML001	B	5/20/78
6	00552-ML001	B	5/20/78
7	00552-ML001	B	5/20/78
8	00552-ML001	B	5/20/78

DRN. 00552-001 4/4/79	FIRST USED ON	TM78
CHK'D. 10/26/78	TITLE	(CRCI)
ENG. 10/26/78	CRC & ACRC	
PROJ. 10/26/78	10/26/78	
PROD. 10/26/78	10/26/78	
NEXT HIGHER ASSY.		
B-DD-M8952-0	SIZE CODE	NUMBER
SCALE NONE	D CS	M8952-0-1
SHEET 1 OF 4	DIST.	D

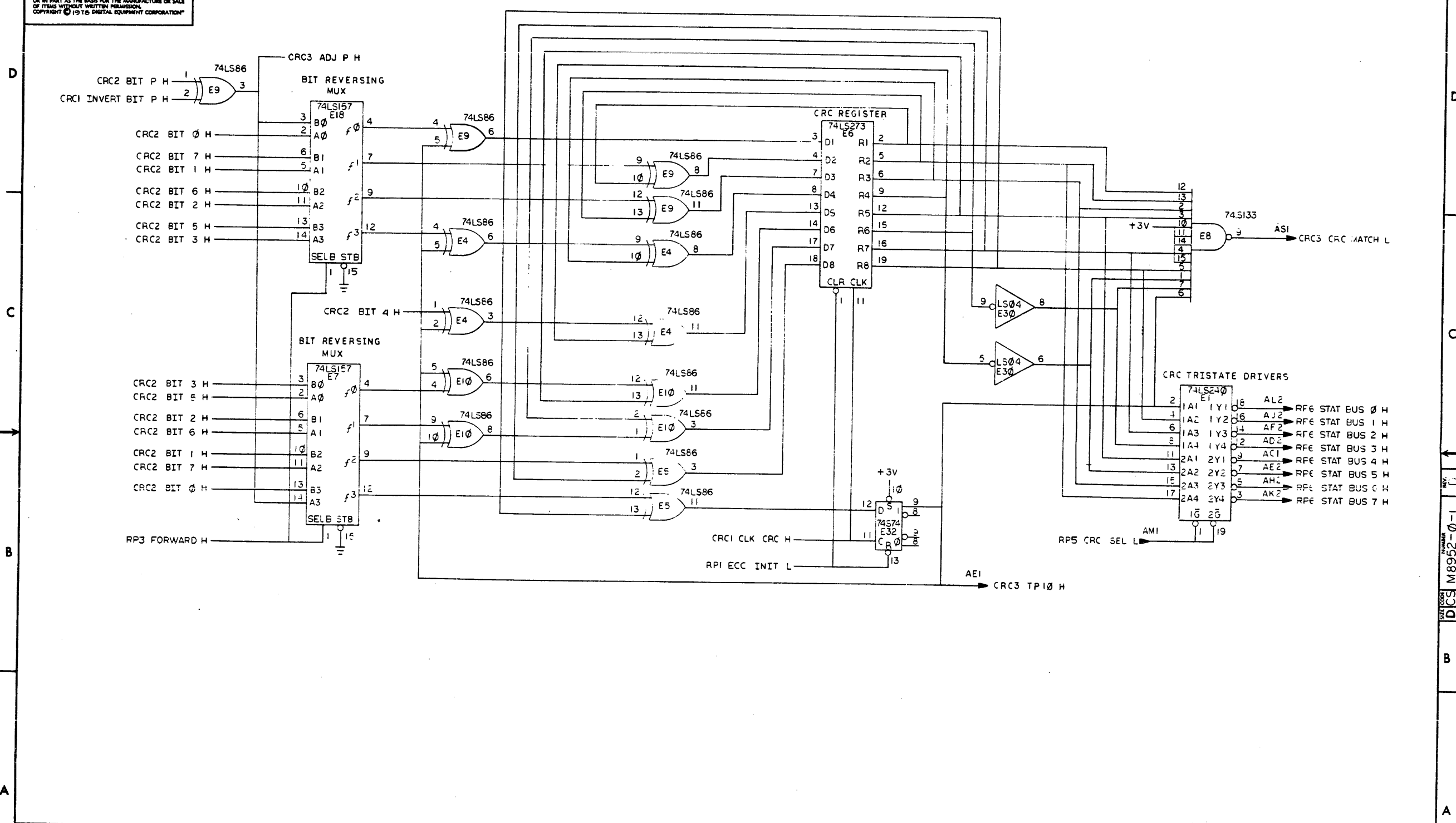
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REVISIONS		
CHK	CHANGE NO.	REV.

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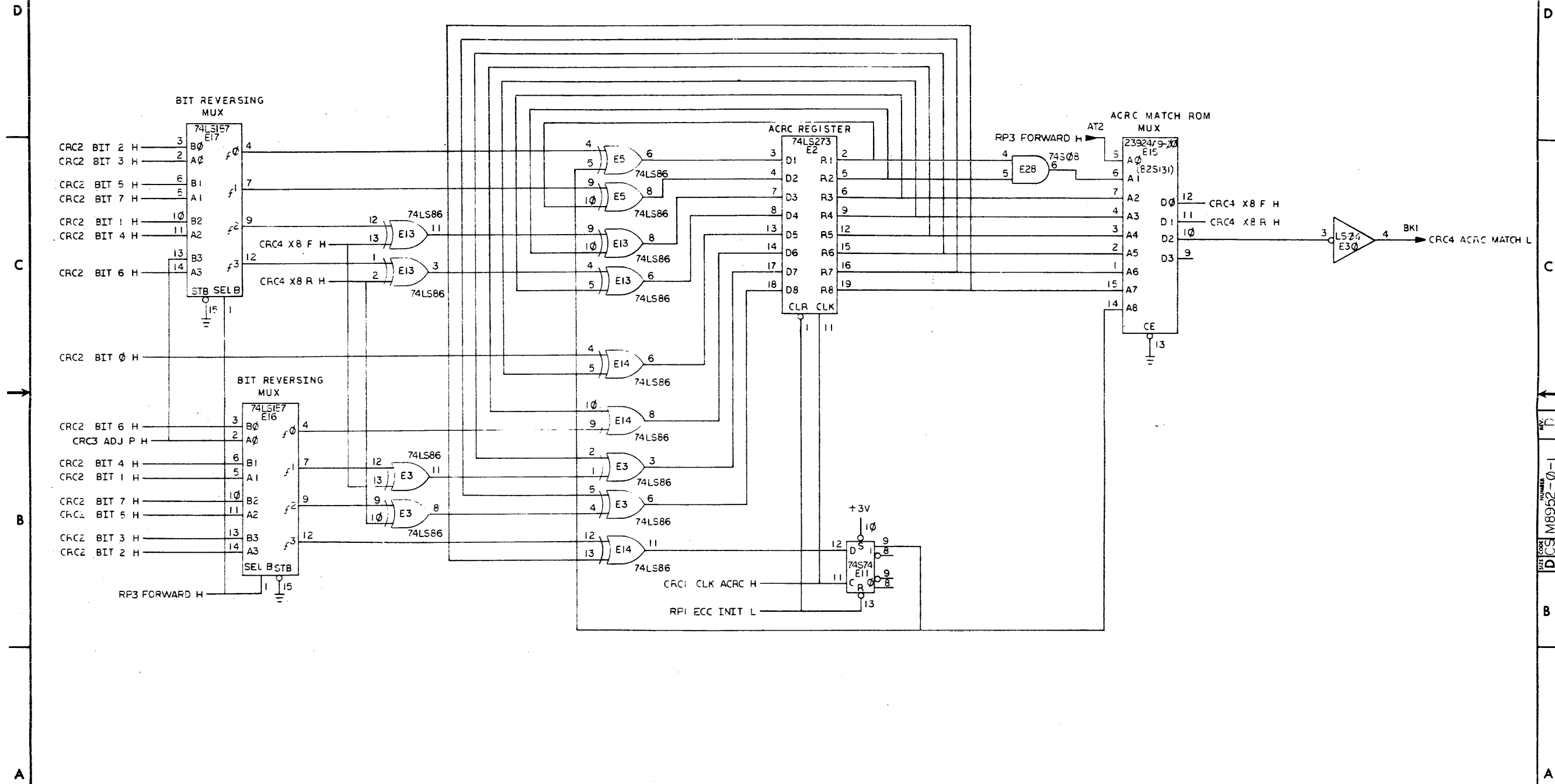
D 1-0-2668 DCS M8952-0-1 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(CRC3)	SIZE/NO.	NUMBER	REV.
CRC & ACRC		DCS	M8952-0-1	D
SCALE	SHEET 3 OF 4	DIST.	SHR	1

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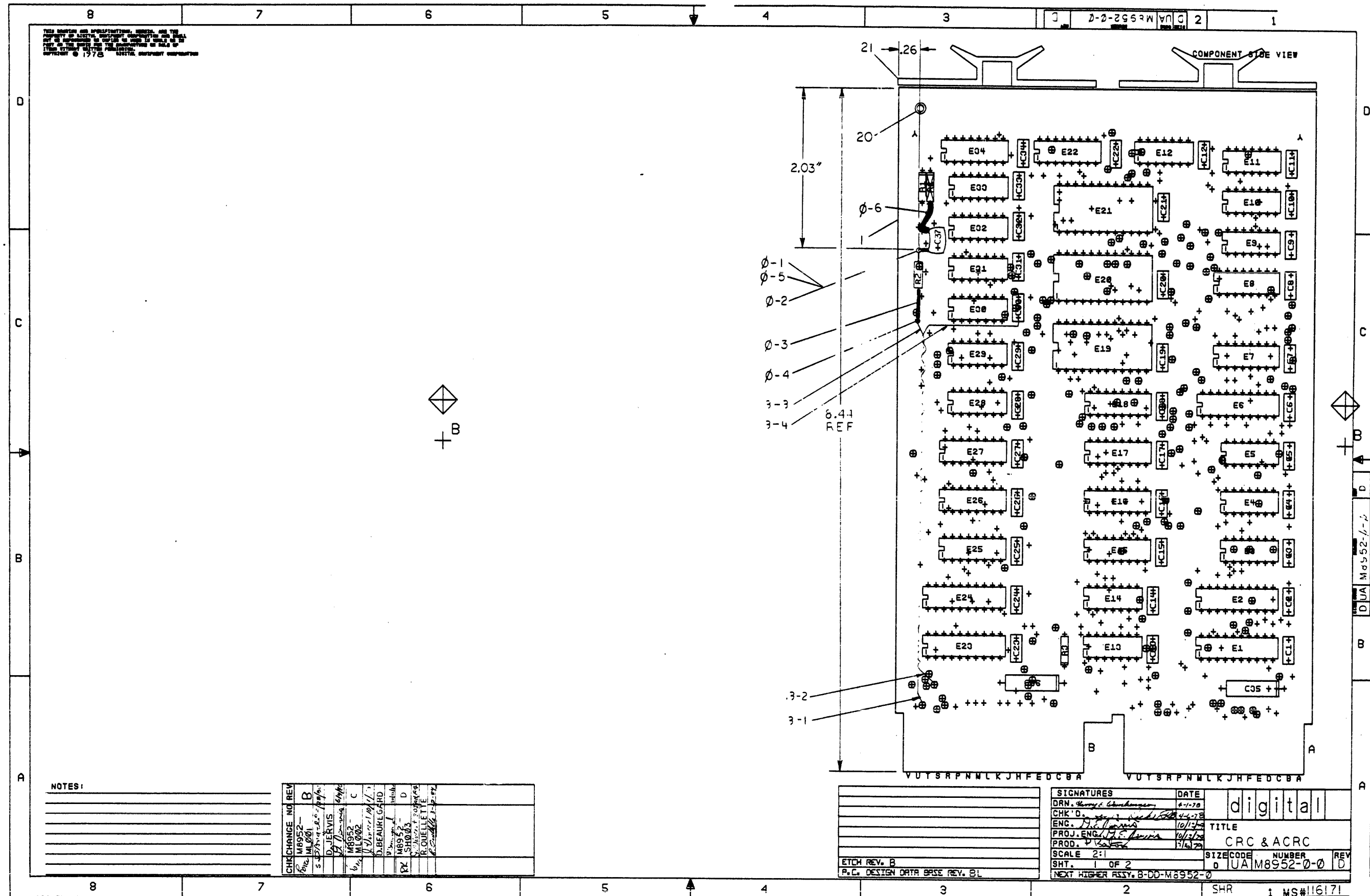
AUXILIARY CRC CHECKER

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CRC & ACRC (CRC4)	SIZE CODE	D CS	NUMBER	M8952-0-1	REV.	D
SCALE		SHEET	4 OF 4	DIST.			

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D-2-2952W Y0 G 2 1



NOTES:

CHG	NO	REV	BY	DATE
M8952-	B			
5				
D	JERVIS			
M8952-	C			
6				
D	BEAUREGARD			
M8952-	D			
7	SHOUB			
R	ROUELLETTE			

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

SIGNATURES		DATE	TITLE
DRN. <i>Kerry C. Chabannon</i>		6-1-78	
CHK'D. <i>[Signature]</i>		4/1/78	
ENC. <i>[Signature]</i>		10/1/78	
PROJ. ENG. <i>[Signature]</i>		10/1/78	
PROD. <i>[Signature]</i>		10/1/78	
SCALE 2:1			SIZE CODE NUMBER
SHT. 1 OF 2			0 IUA M8952-0-0
NEXT HIGHER ASSY. B-DD-M8952-0			REV D

digital

CRC & ACRC

0 IUA M8952-0-0

SHR 1 MS#116171

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D 0-0-2568W 2

FIRST RELEASE: M8952

REWORK INSTRUCTIONS:

- # - 1. DRILL A HOLE, #49 DRILL AT SHOWN LOCATION.
- # - 2. INSTALL A GRIPLET IN DRILLED HOLE (47479).
- # - 3. PUT SLEEVING ON ONE END OF A 120Ω 1/4 WATT RESISTOR - R2 (1300295).
- # - 4. SOLDER THE SLEEVED SIDE OF RESISTOR IN FEED-THRU AS SHOWN. NOTE: FEED-THRU SHOULD ALREADY CONNECT TO E30-1.
- # - 5. PLACE THE OTHER END OF THE 120Ω RESISTOR (R2) IN GRIPLET ALONG WITH ONE END OF A 180PF (C37) DIPPED MICA CAP AS SHOWN. (1000020-00).
- # - 6. PUT SLEEVING ON THE OTHER END OF THE CAP AND SOLDER LEAD IN TO THE HOLE WHERE R2 USED TO BE. NOTE: THIS HOLE SHOULD CONNECT TO GROUND.

REWORK INSTRUCTIONS:

ECO #3, SIDE 1:

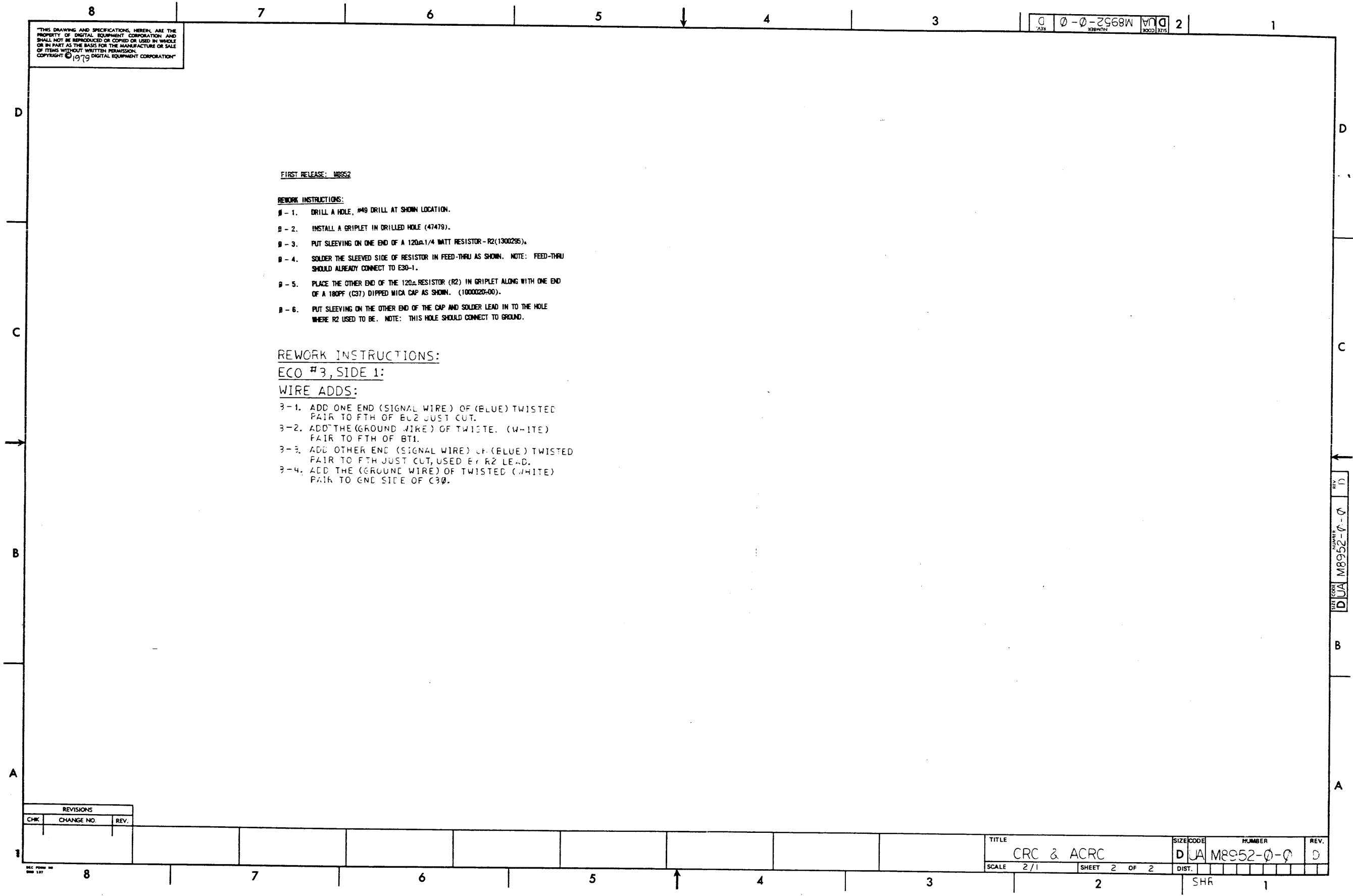
WIRE ADDS:

- 3-1. ADD ONE END (SIGNAL WIRE) OF (BLUE) TWISTED PAIR TO FTH OF B02 JUST CUT.
- 3-2. ADD THE (GROUND WIRE) OF TWISTED (WHITE) PAIR TO FTH OF B01.
- 3-3. ADD OTHER END (SIGNAL WIRE) OF (BLUE) TWISTED PAIR TO FTH JUST CUT, USED BY R2 LEAD.
- 3-4. ADD THE (GROUND WIRE) OF TWISTED (WHITE) PAIR TO GND SIDE OF C30.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
CRC & ACRC	D JA	M8952-0-0	0
SCALE 2/1	SHEET 2 OF 2	DIST.	

REV. 1
D JA M8952-0-0

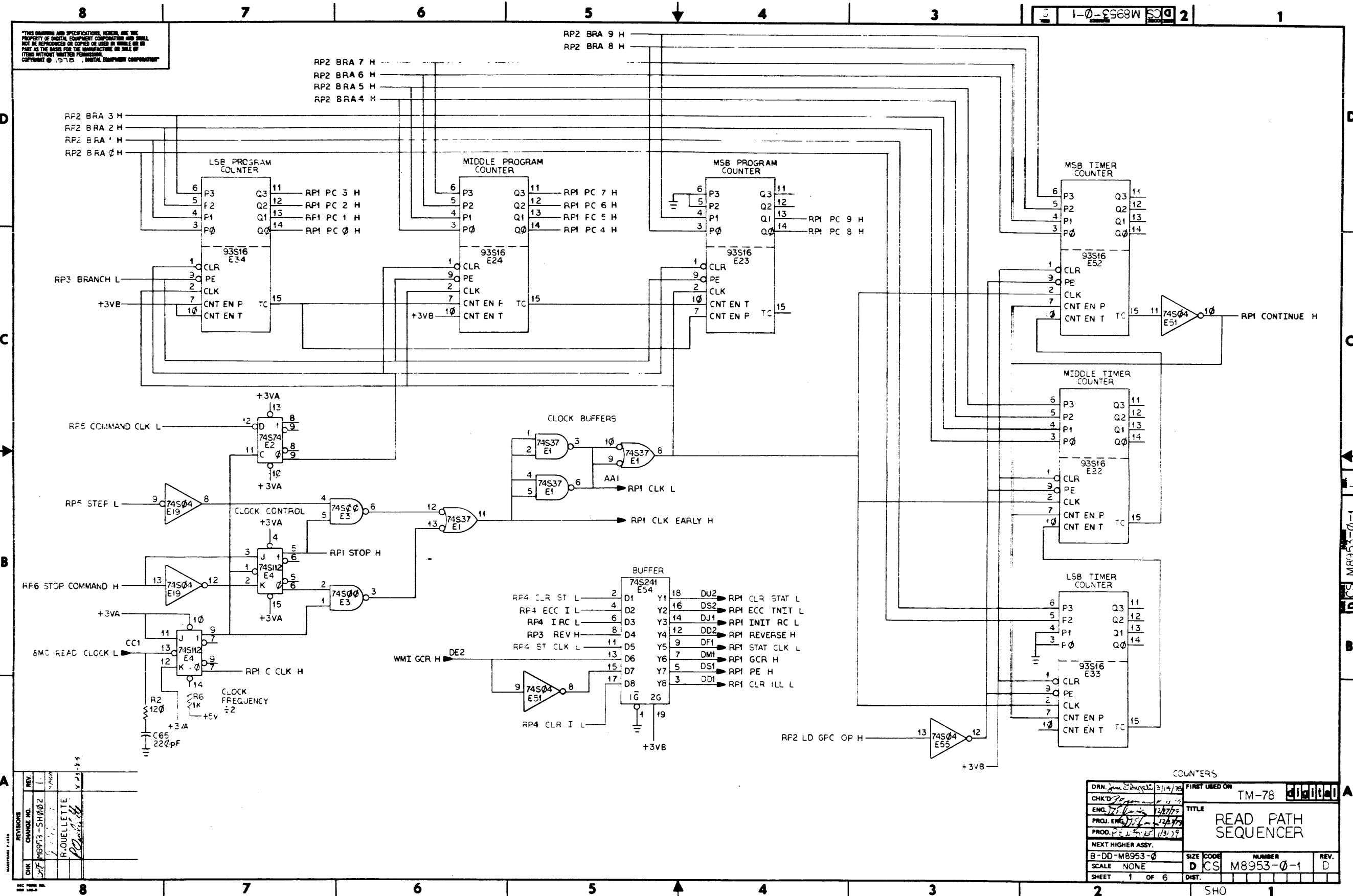


LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV DESCRIPTION VARIATION REVISION LEVEL	QTY PER VARIATION CO	REFERENCE DESIGNATOR
1	1		5013054-00	CRC + ACRC	1	
2	2		1001610-00	.01 MFD 50V ±80-200 Z5U C&P	34	C1-C34
3	3		1005366-00	0.0MFD 35V 100 S.TANI	2	C35,C36
4	4		1300365-00	1.0 K .25 W 5.0 Ω CF	7	R1,R3
5	5		1300247-00	120.0 .25 W 5.0 Ω CF	1	R2
6	6		1912063-00	745133 NAND GATE-POSITIVE 1	1	E9
7	7		1910157-00	DEC 74150 MUX 1 OF 16	1	F19
8	8		1910534-00	*** THIS ITEM IS NOT USED ***	-	
9	9		1910536-00	74510 NAND GATE-TRIPLE 3IN	7	E31,E33
10	10		1910544-00	74574 FF-D DUAL EDGE TRIGG	4	E11,E29,E32,E12
11	11		1912829-00	LS96 X-OR GATE-QUAD 2IN	7	E3-E5,E9,E10,E13,E14
12	12		1912847-00	LS157 MUX 1 OF 2 (QUAD)	4	E7,E16-F18
13	13		1912863-00	LS273 FF-D OCTAL W/CLEAR	7	E2,E6
14	14		1912872-00	LS377 FF-D 8BIT W/ENABLE	7	E23,E24
15	15		1912889-00	74508 AND GATE-QUAD 2IN,PO	1	E28
16	16		1913291-00	93516 COUNTER, SYNCH UP 6IN	7	E22,E34
17	17		1913777-00	LS240 DRIVER,LINE,OCIAL,1	1	E1
18	26		2306761-00	DI-02	1	E21
19	19		2372449-00	AY-03	1	E15
20	20		9006752-00	RYFLR1, PULLED 0.12100X0.219	4	
21	21		9008337-06	MONOLE, PLIP CHIP, MAGENTA	7	
22	22		1912768-00	C 67401J MEMORY 8120, SERIAL	3	E25-E27
23	23		1000010-00	140.0 MFD 100V 56290PPM MICA	1	C37
24	25		7107267-00	TUNING, T-PLUM .03410	1/9	
25	18		2306661-00	DI-02	1	E20
26	27		1912807-00	LS04 INVERTER GATE, HEX	1	E30
27	28		4107720-69	WIRE (WAP) TOP 30AWG KYNAR UL14	A/R	

REVISION HISTORY		BASIC PART NO		REV		DATE: 20-MAR-78		DIGITAL	
ENG	ECU NUMBER	REV	SECTION A OF A	CHG	S. MAPLE	DATE: 20-MAR-78	TITLE PARTS LIST		
	INIT	1A	SECTION VARIATION INDEX	CHG	C. REVEPLIF	DATE: 20-MAR-78	CRC + ACRC		
DDJ	1M8952-MLC01	1B	E1) CO						
DDH	1M8952-MLC02	1C	E2)						
RRD	1M8952-SH007	11	E3)	DDJ	D. JERVIS	DATE: 15-MAY-79	DOCUMENT NUMBER		
			E4)				SIGNATURE NUMBER		
			E5)				REV		
			E6)	DDJ	D. JERVIS	DATE: 15-MAY-79	K	PL	1M8952-0-D&P
			E7)						
			E8)	DDJ	P. HANTON	DATE: 15-MAY-79	RELEASE DATE: 09-MAR-84		
			E9)						
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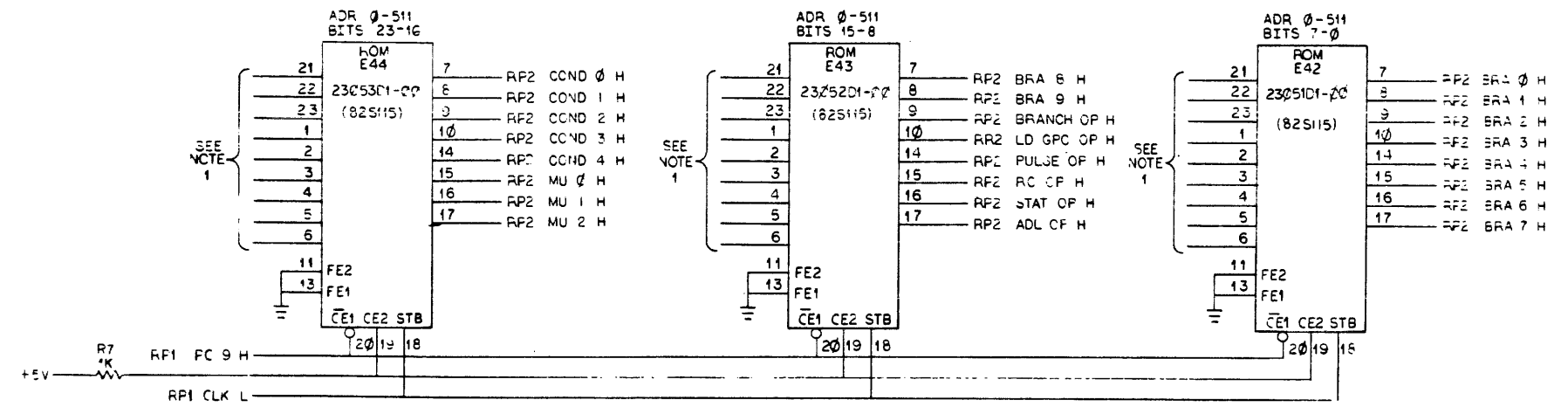
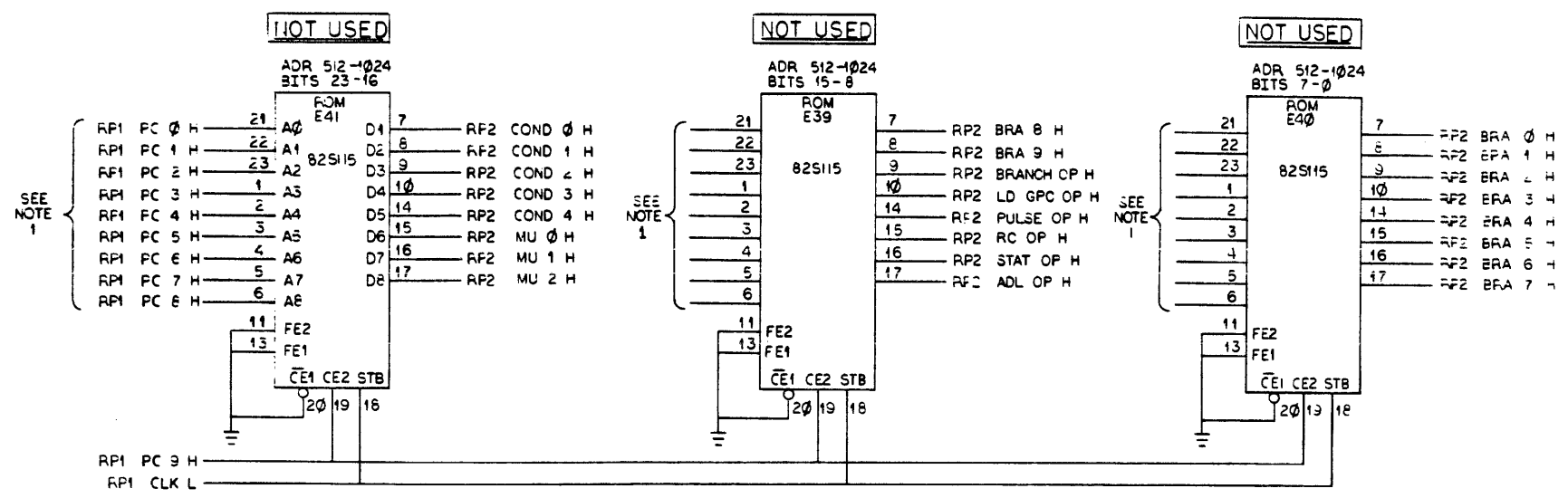


REV.	CHG.	BY	DATE
1			
2			
3			
4			
5			
6			
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8			

COUNTERS		FIRST USED ON	
DRN. DATE	3/14/78	TM-78	
CHKD		TITLE	READ PATH SEQUENCER
ENG.		SIZE CODE	D CS
PROJ. ENG.		NUMBER	M8953-0-1
PROD. P.C.		REV.	D
NEXT HIGHER ASSY.		SCALE	NONE
B-DD-M8953-0		SHEET	1 OF 6
DATE		DIST.	

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1-0-3968W SC D 2

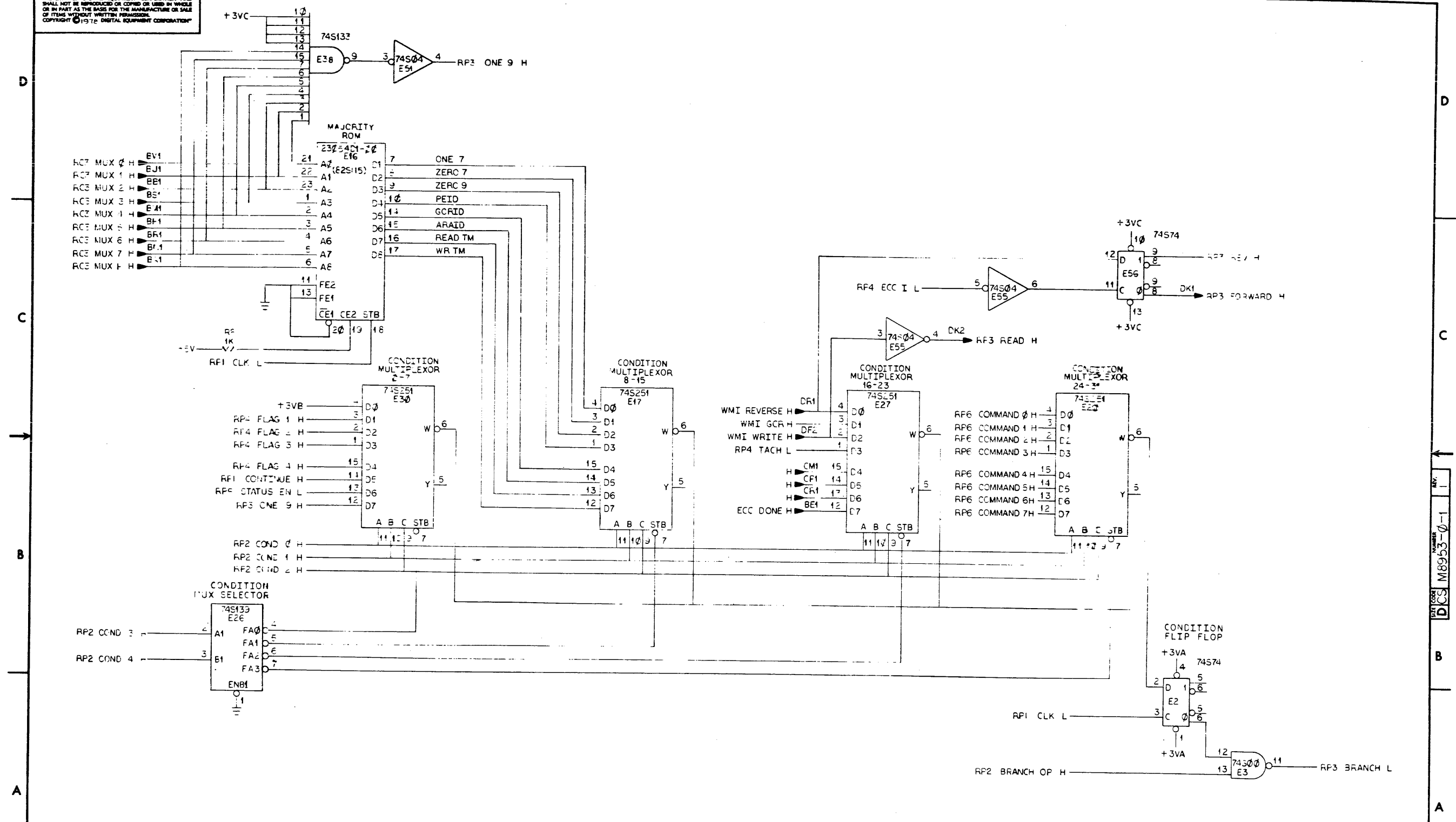


NOTE 1. ALL ROM CHIPS ON THIS SHEET HAVE ADDRESS TERMINALS COMMON.

REVISIONS		
CHK	CHANGE NO.	REV.

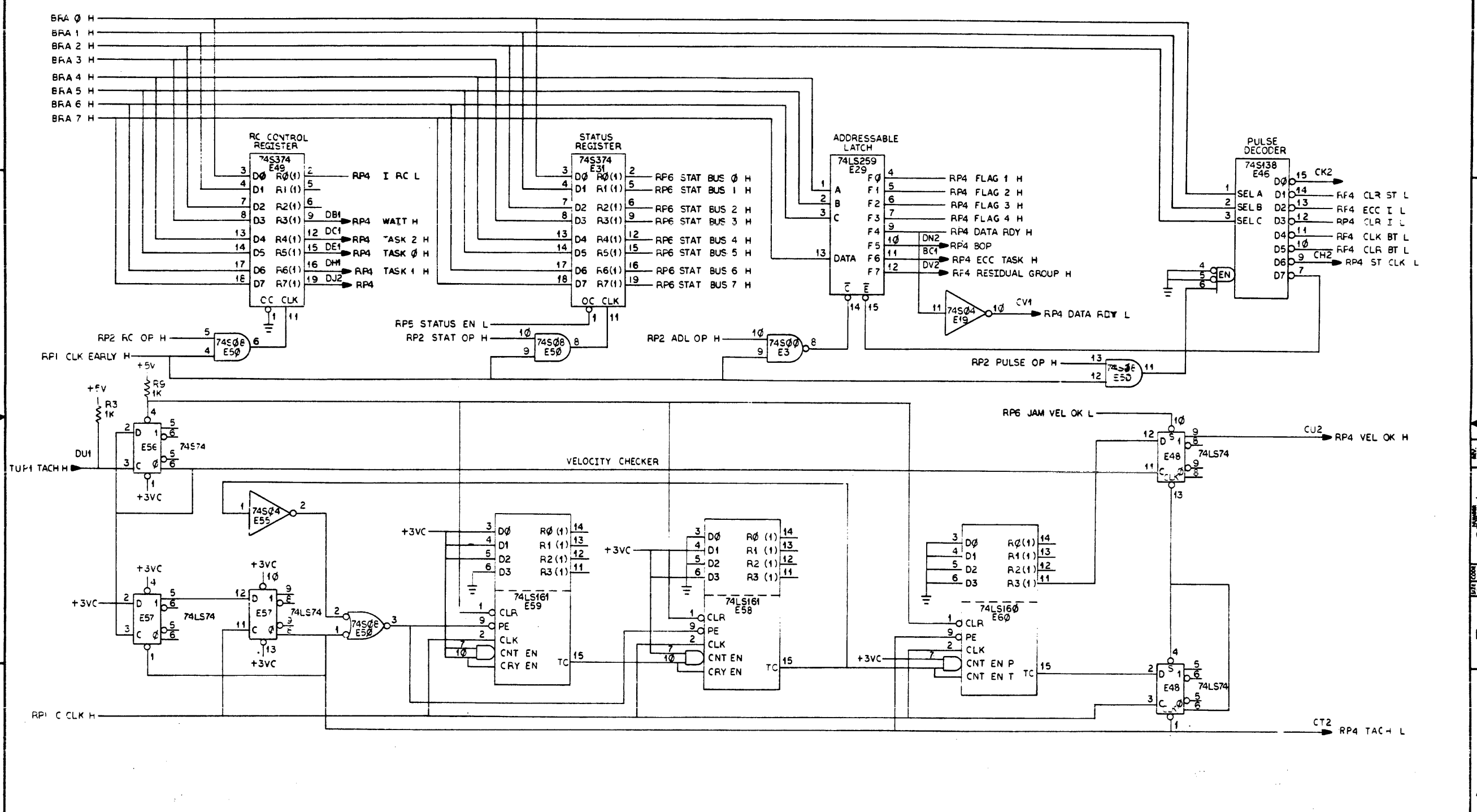
TITLE		PROGRAM ROMS		SIZE CODE		NUMBER		REV.	
READ DATA SEQUENCER		DCS		M8953-0-1		2		2	
SCALE 1:1		SHEET 2 OF 6		DIST.		SHO		1	

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REVISIONS		
CHK	CHANGE NO.	REV.

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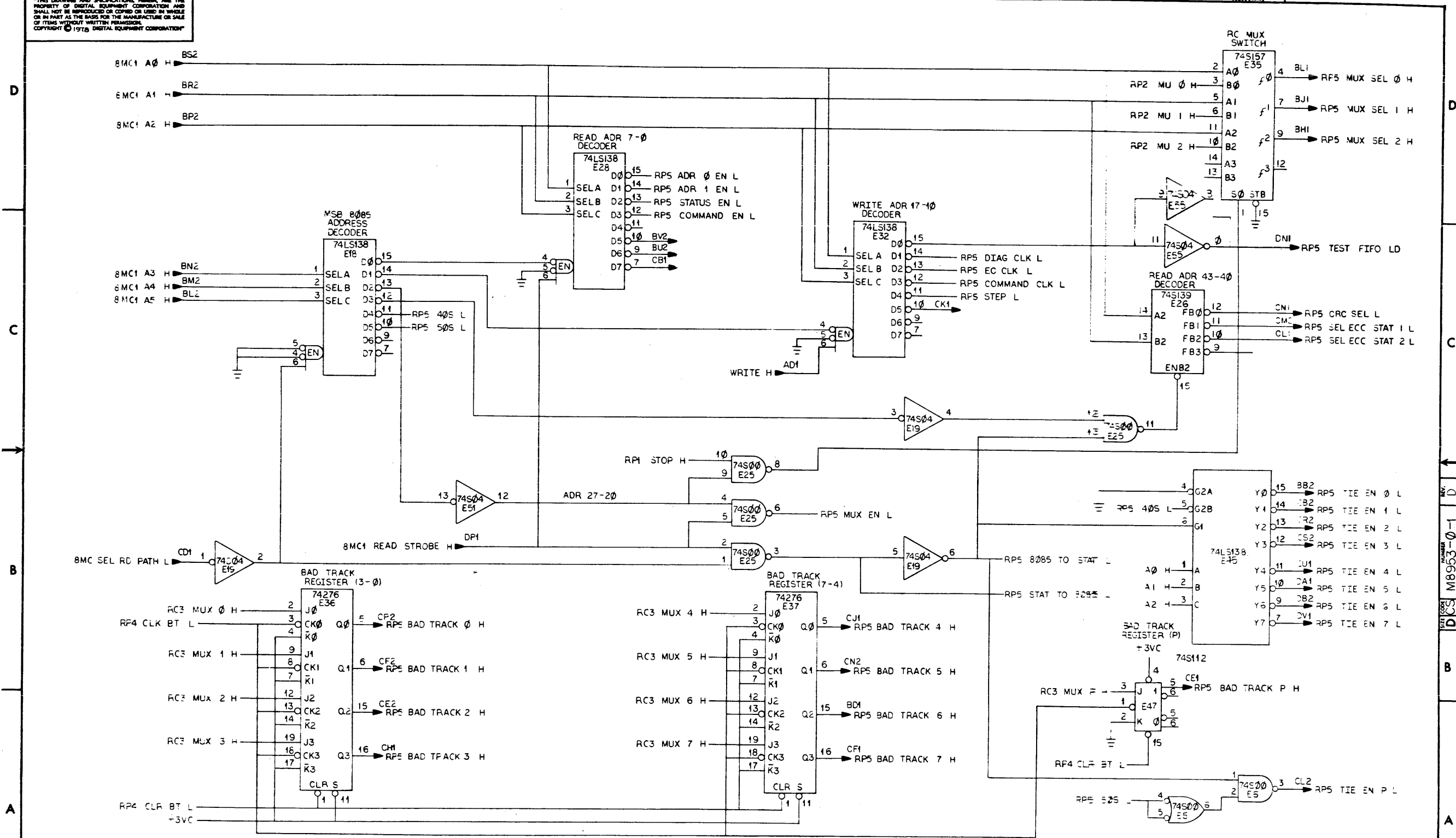


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE		NUMBER		REV.
READ PATH SEQUENCER		D CS		M8953-0-1		D
SCALE NONE		SHEET 4 OF 6		DWT.		SHO

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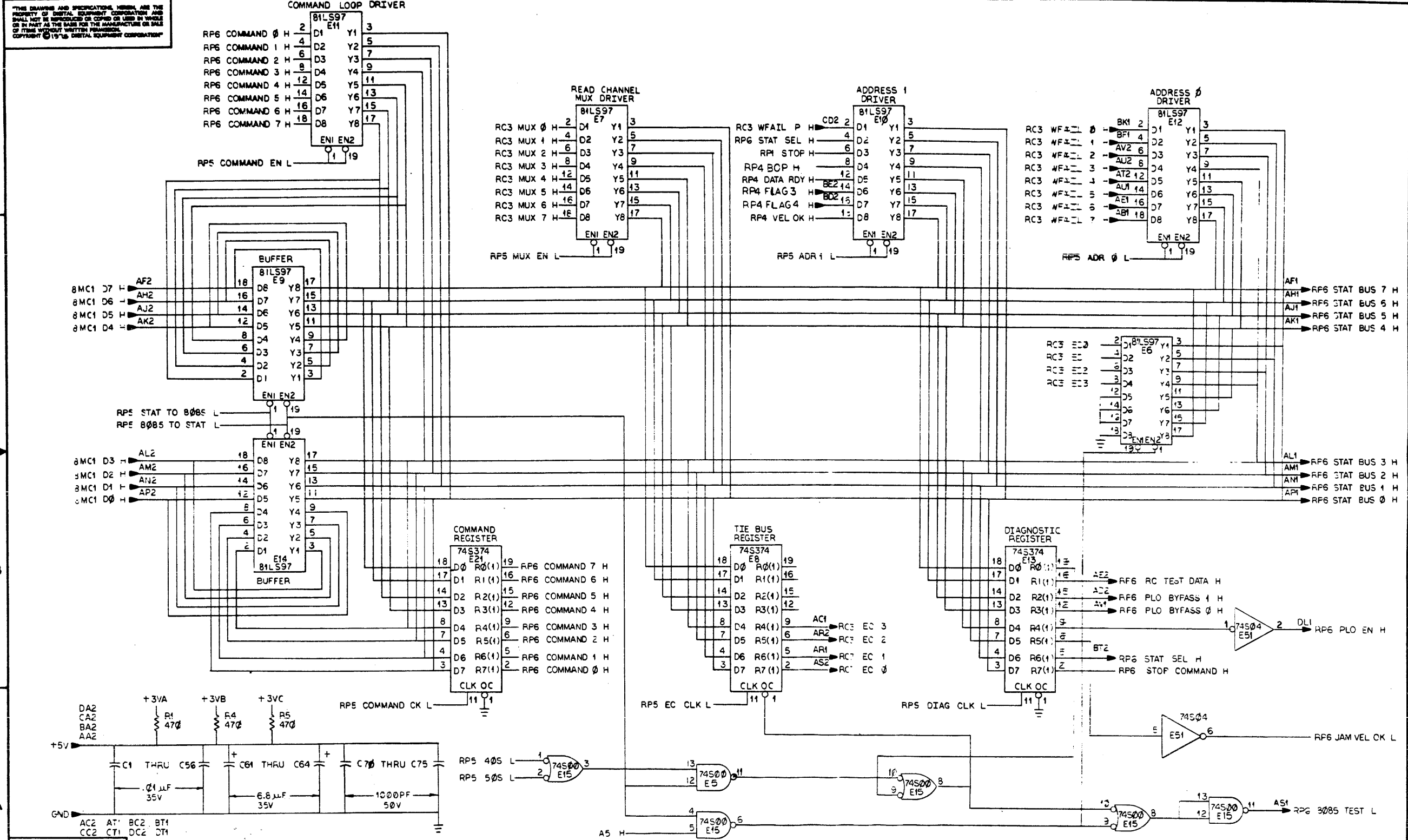
J 1-0-2968W SCQ 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	8085 ADDRESS DECODER BAD TRACK REGISTER	SIZE CODE	D CS	NUMBER	M8953-0-1	REV.	D
SCALE	ONE	SHEET	5 OF 6	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

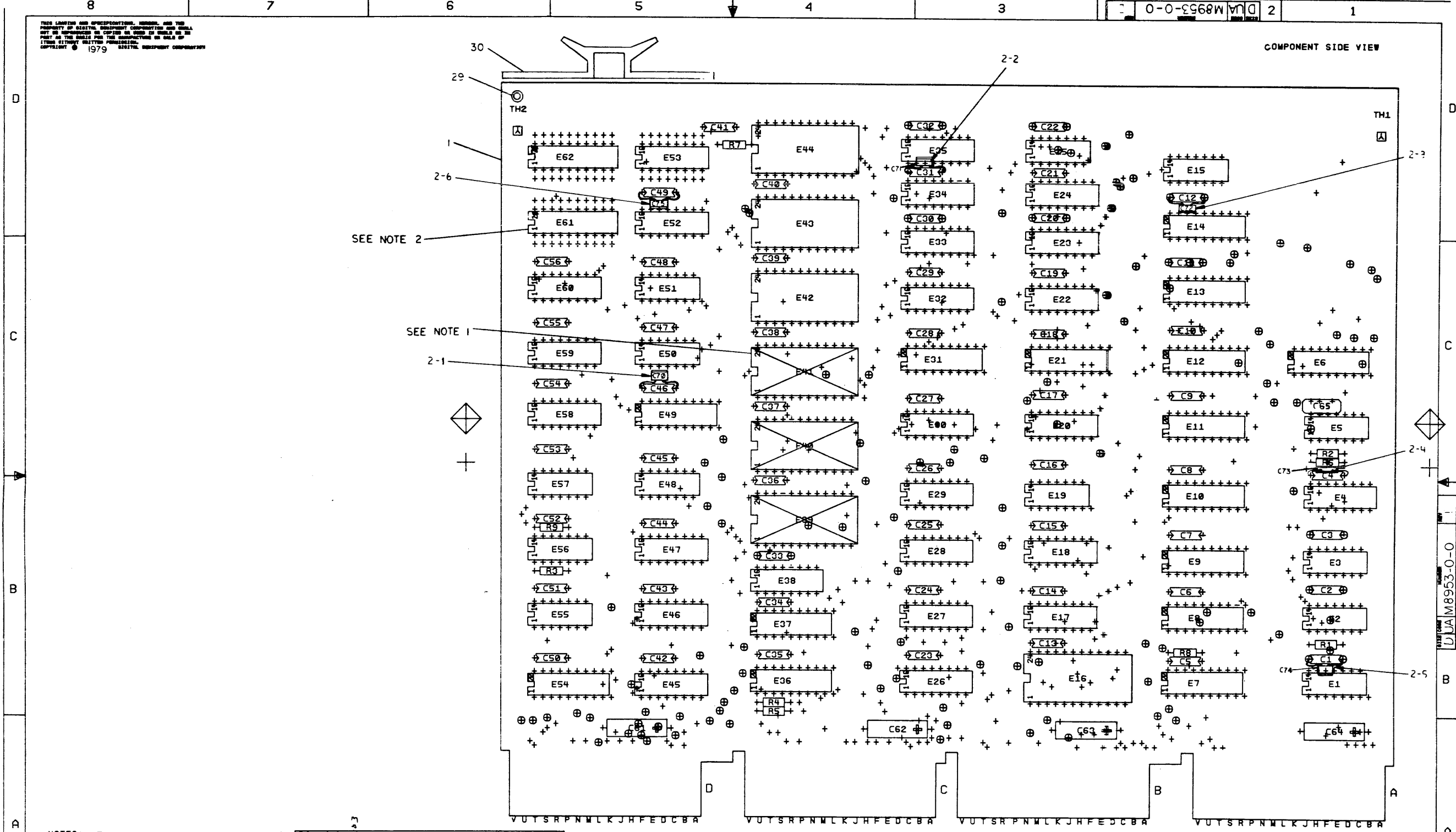
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READ PATH SEQUENCER		SIZE CODE	NUMBER
SCALE NONE		DCS	M8953-0-1
SHEET 6 OF 6		DIST.	REV. C

DCS M8953-0-1
 SHEET 6 OF 6

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0-0-89668 2 1

COMPONENT SIDE VIEW



NOTES: 1. E39-E41 ARE NOT TO BE INSTALLED AT ASSEMBLY.
2. E53, E6 & E62 ARE SPARE IC LOCATIONS.

STEP	Y AXIS	STEP	TIMES
REPEAT	X AXIS	STEP	TIMES

CHANGE NO	REV	DATE	BY	CHKD
020	D	11/13/79	WILLIAMS	WILLIAMS

ETCH REV. D
DESIGN DATA BASE, DL & DM

SIGNATURES	DATE	digital
DRN. W. Austin	11/13/79	
CHK'D. [Signature]	11/13/79	
MECH. ENG. [Signature]	11/13/79	
PROD. [Signature]	11/13/79	
TITLE		READ PATH SEQUENCER
SCALE 2/1		
SHT. 1 OF 2	SIZE CODE	NUMBER
NEXT HIGHER REV. 8-00-M8953-0	D U A	M8953-0-0

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0 0-0-ES68W 7000 2000

REWORK INSTRUCTIONS:

ECO *2, SIDE 1:

COMPONENT ADDS:

- 2-1. ADD CAP. C70 P/N 1011740-05 IN PARALLEL WITH C46 CAPACITOR.
- 2-2. ADD CAP. C71 P/N 1011740-05 IN PARALLEL WITH C31 CAPACITOR.
- 2-3. ADD CAP. C72 P/N 1011740-05 IN PARALLEL WITH C12 CAPACITOR.
- 2-4. ADD CAP. C73 P/N 1011740-05 IN PARALLEL WITH C4 CAPACITOR.
- 2-5. ADD CAP. C74 P/N 1011740-05 IN PARALLEL WITH C1 CAPACITOR.
- 2-6. ADD CAP. C75 P/N 1011740-05 IN PARALLEL WITH C49 CAPACITOR.

REVISION HISTORY		
REV	ECO NUMBER	DATE

TITLE
READ PATH SEQUENCER

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	M8953-0-0
SCALE	2/1	SHEET 2 OF 2

REV D
DUA M8953-0-0

PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5013101-00	READ PATH SEQUENCER	1	
2	2		1000021-00	220.0 MFD 100V 5%200PPM MICA	1	C65
3	3		1001610-00	.01 MFD 50V +80-20% Z5U CER	56	C1-C56
4	4		1005306-00	6.8MFD 35V 10% S.TANT	4	C61-C64
5	5		1300247-00	120.0 .25 W 5.0 % CF	1	R2
6	6		1300316-00	470.0 .25 W 5.0 % CF	3	R1,R4,R5
7	7		1300365-00	1.0 K .25 W 5.0 % CF	5	R3,R6-R9
8	8		1910532-00	74S00 NAND GATE-QUAD 2IN	4	E3,E25,E5,E15
9	9		1910534-00	74S04 INVERTER GATE-HEX 1I	3	E19,E51,E55
10	10		1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2	E2,E56
11	11		1910545-00	74S112 FF-JK DUAL,EDGE TRIG	2	E4,E47
12	12		1910548-00	74S157 MUX 1 OF 2 (QUAD)	1	E35
13	13		1911676-00	74S139 DECODER-DUAL TWO-INP	1	E26
14	14		1911983-00	74S133 NAND GATE-POSITIVE 1	1	E38
15	15		1912389-00	74S08 AND GATE-QUAD 2IN,PO	1	E50
16	16		1912728-00	74S251 MUX 1 OF 8 TRI-STA	4	E17,E20,E27,E30
17	17		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1	E1
18	18		1912824-00	LS74 FF-D DUAL,EDGE TRIGG	2	E48,E57
19	19		1912842-00	LS138 DECODER-THREE INPUT.	4	E18,E28,E32,E45
20	20		1912849-00	LS161 COUNTER,SYNCHR,4BIT	2	E58,E59
21	21		1912860-00	LS259 LATCH 8BIT	1	E29
22	22		1913294-00	93S16 COUNTER,SYNCH UP BIN	6	E22-E24,E33,E34,E52
23	23		1913493-00	74S241 OCTAL BUFFER,TRI-STA	1	E54
24	24		1913671-00	74S374 FF-D,OCTAL,TRI STATE	5	E8,E13,E21,E31,E49
25	25		1913677-00	LS160 COUNTER,LOW POWER SC	1	E60
26	26		1914213-00	81LS97 BUFFER GATE-OCTAL 2I	7	E7,E9-E12,E14,E6
27	27		1915367-00	74276 FF-JK QUAD	2	E36,E37
28	28		23054D1-00	D1-02	1	E16
29	29		9006732-00	EYELET,ROLLED 0.1210DX0.219	8	
30	30		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	

REVISION HISTORY		BASIC PART NO: M8953		DRN: W.SUPINSKI	DATE: 31-OCT-78	D I G I T A L	
ENG: ECO NUMBER	REV	SECTION A OF A	CHK'D: P.BOSSMAN	DATE: 31-OCT-78	TITLE PARTS LIST		
INIT	C	SECTION VARIATION INDEX	DES.ENG: D.JERVIS	DATE: 31-OCT-78	DOCUMENT NUMBER		
R.O:M8953-SH002	D	[A] 00	RESP.ENG.: D.JERVIS	DATE: 31-OCT-78	SIZE: K	CODE: PL	NUMBER: M8953-0-DBP
		[B]	MFG.ENG.: P.BARTON	DATE: 31-OCT-78	ASSEMBLY NUMBER: D-UA-M8953-0-0	TOP DOCUMENT NUMBER: B-DD-M8953-0-0	FILE NAME: Z0947D.PLS
		[C]					REV: D
		[D]					EDIT #: 20
		[E]					
		[F]					
		[H]					
		[J]					
		[K]					
		[L]					
		[M]					
		[N]					

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AUTOMATED BY PRTLST.2D(11)

PARTS LIST

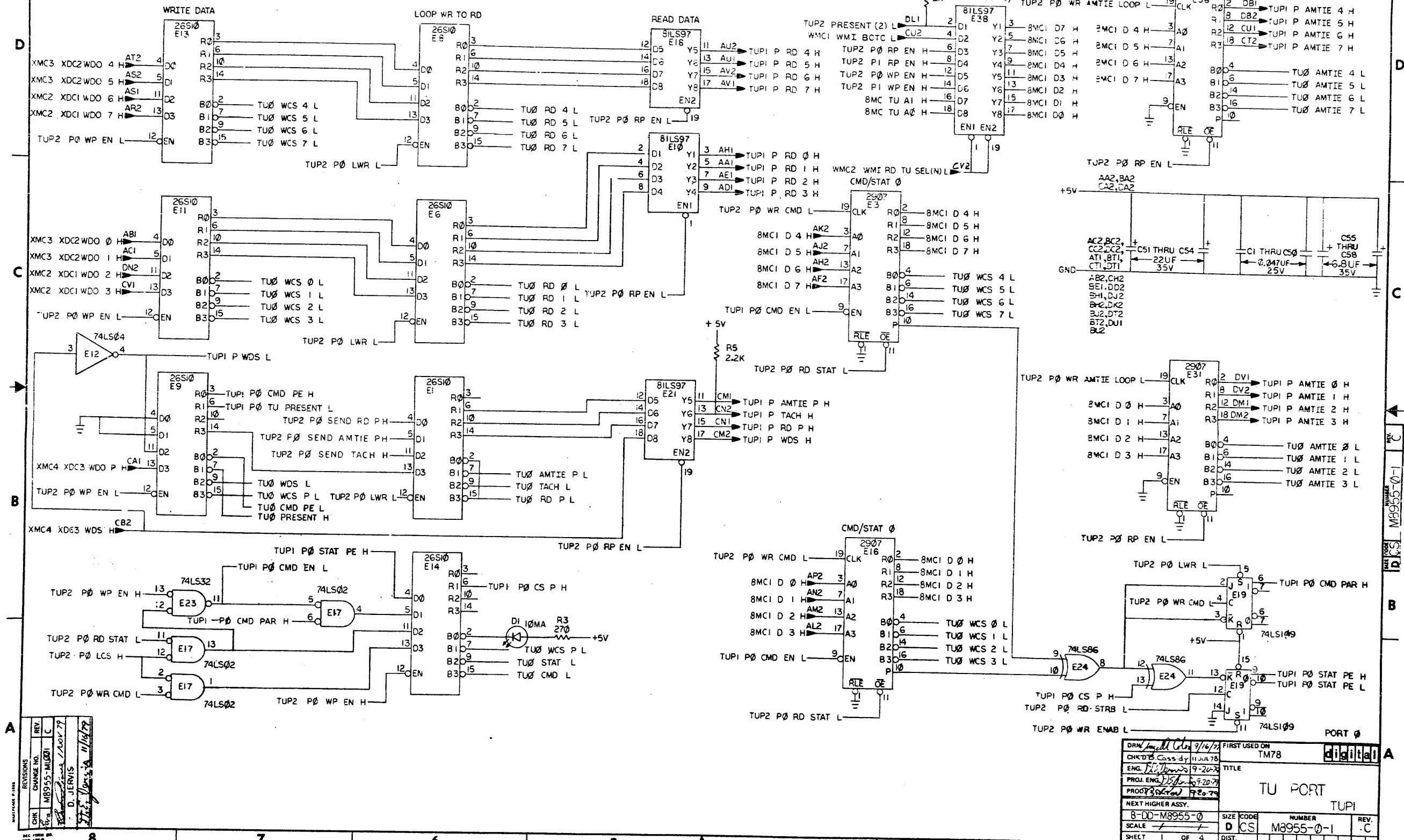
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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31	31			IC SPARE	-	
32	32		1911675-00	*** THIS ITEM IS NOT USED ***	1	E46
33	33	D-UA-M8953-0-0		74S138 DECODER/DEMUX 3-8 LI	REF	
34	34	D-CS-M8953-0-1		UNIT ASSEMBLY	REF	
35	35	D-MD-5013101-0-0		CIRCUIT SCHEMATIC	REF	
36	36	D-EC-5013101-0-0		DRILL & ETCH DRAWING	REF	
37	37		2305101-00	ETCH CUT DRAWING	1	E42
38	38		2305201-00	D1-02	1	E43
39	39		2305301-00	D1-02	1	E44
40	40		1011740-05	1000.0 MMF 50V 10% CER	6	C70-C75

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
Y&K	HH	B3					READ PATH SEQUENCER		K	PL	M8953-0-DBP	D

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NOTE 1: TYPICAL FOR E15, E22, E29, E34, E43 AND E48.

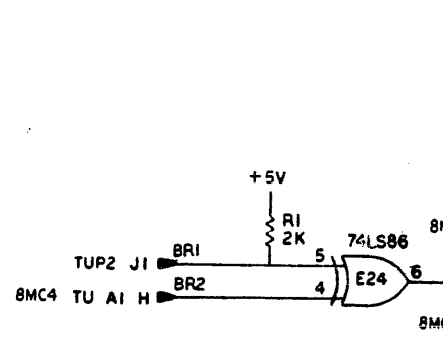
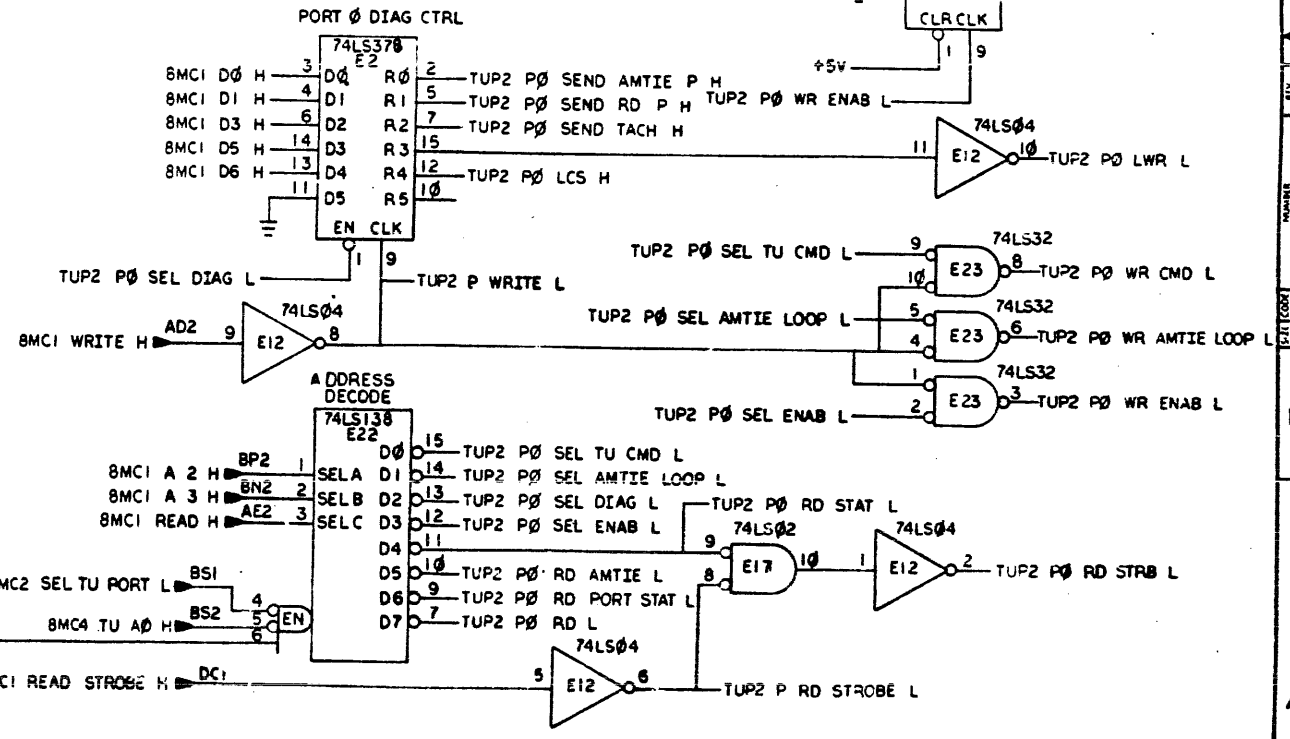
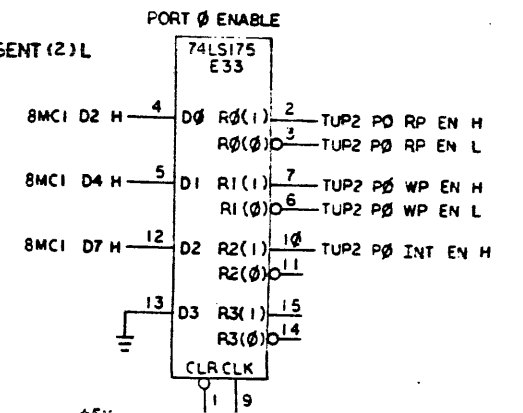
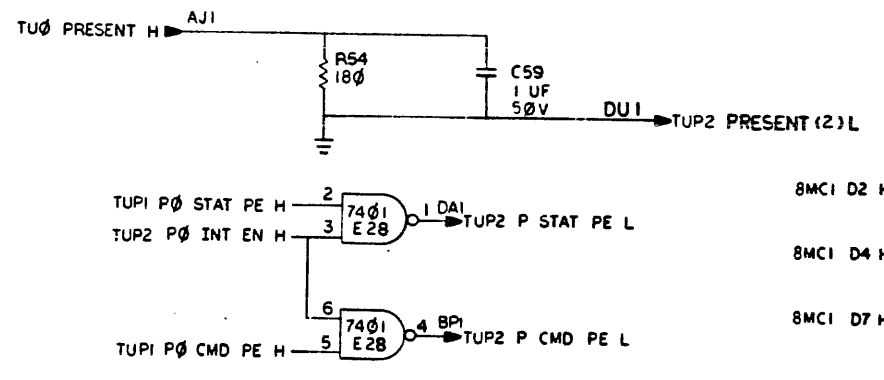
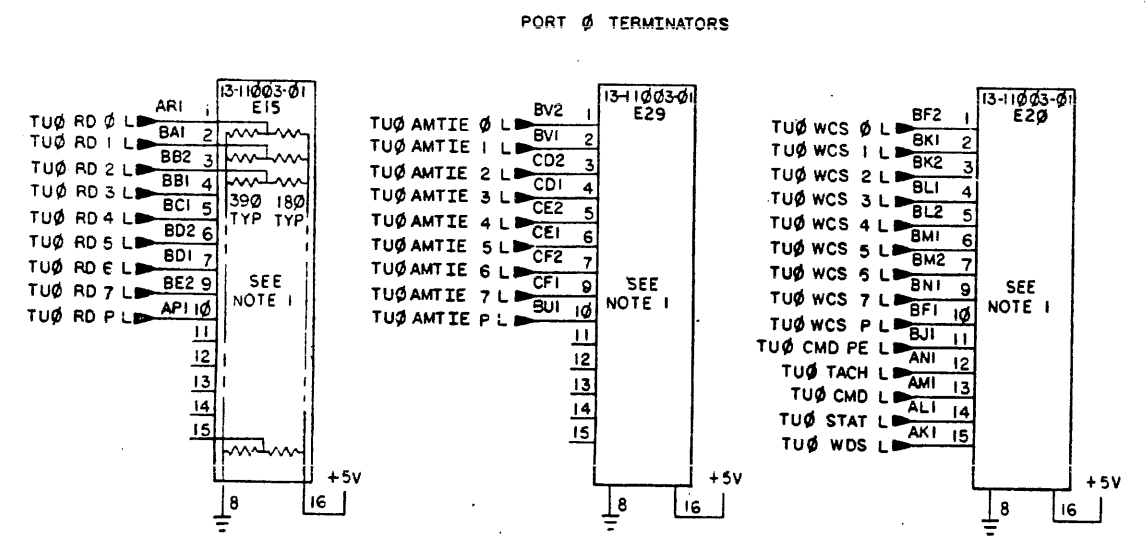
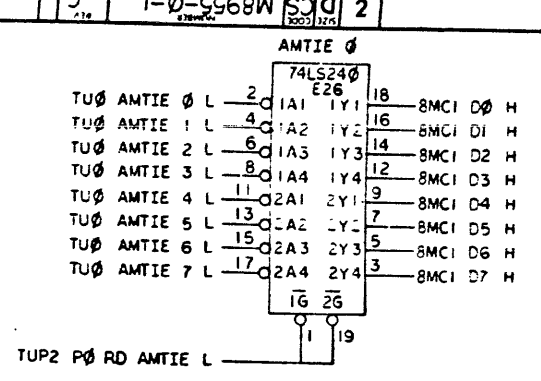
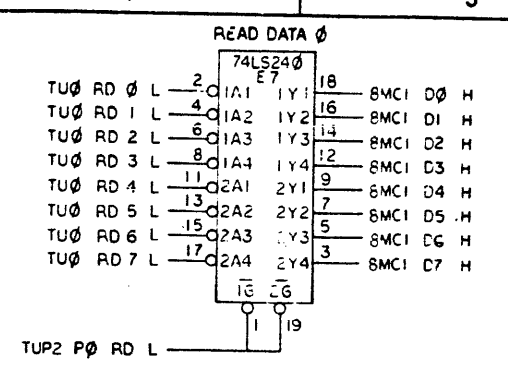
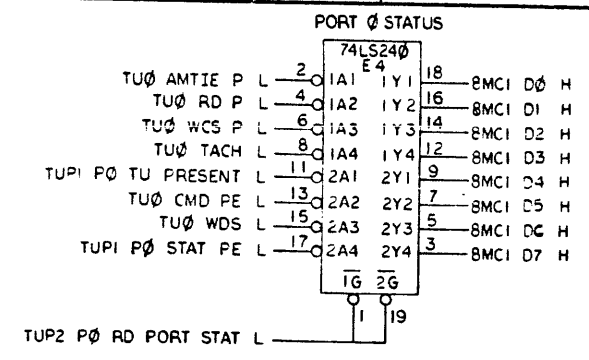


REV.	CHG.	DATE	BY	CHKD
1				
2				
3				
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5				
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8				

DRN <i>Small</i> 9/16/77	FIRST USED ON	TM78
CHK'D <i>B. Cassidy</i> 11 JUN 78	TITLE	TU PORT
ENG. <i>D. J. Jones</i> 9-20-77	PROJECT	TUPI
PROT. <i>Small</i> 7-20-77	SCALE	1 OF 4
NEXT HIGHER ASSY.	SIZE	CODE
B-DD-M8955-0	SIZE	CODE
SCALE	DIST.	NUMBER
SHEET 1 OF 4	DIST.	M8955-0-1
		REV. C

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1-0-9568W SCD 2

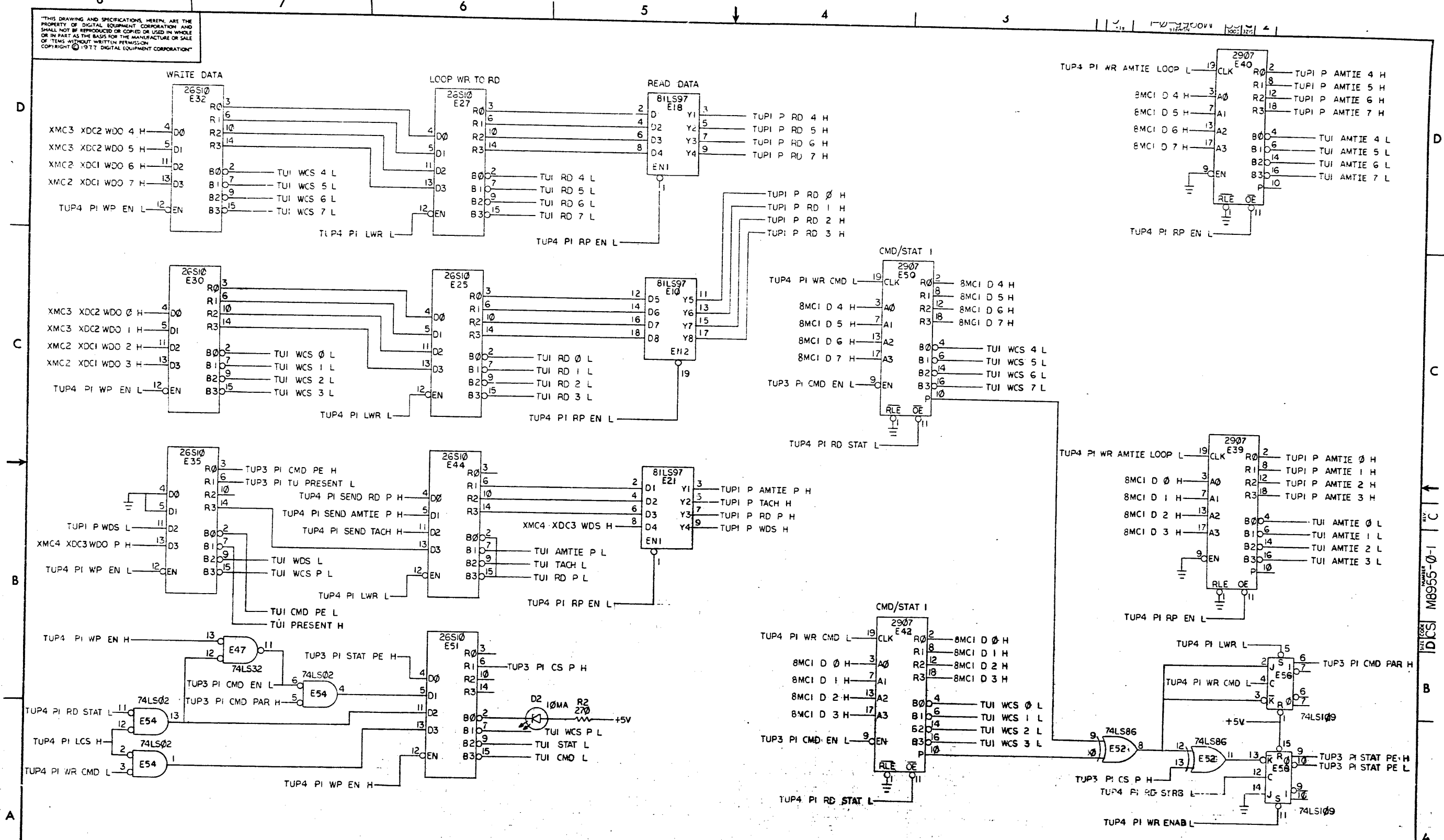


REVISIONS		
CR	CHANGE NO.	REV.

TITLE	TU PORT	SIZE CODE	DCS	NUMBER	M8955-0-1	REV.	C
SCALE	+	SHEET	2	OF	4	DIST.	

DCS FORM NO. 080 1.00

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REVISIONS		
CHK	CHANGE NO	REV.

8	7	6	5	4	3	2	1
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TITLE		SIZE	CODE	NUMBER	REV.
TU PORT		D	CS	M8955-0-1	C
SCALE	SHEET	3 OF 4		DIST.	

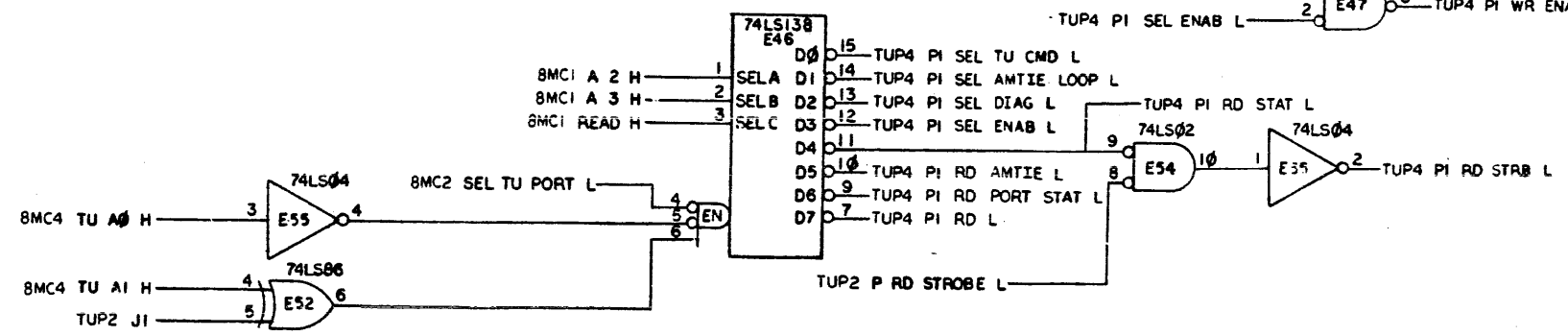
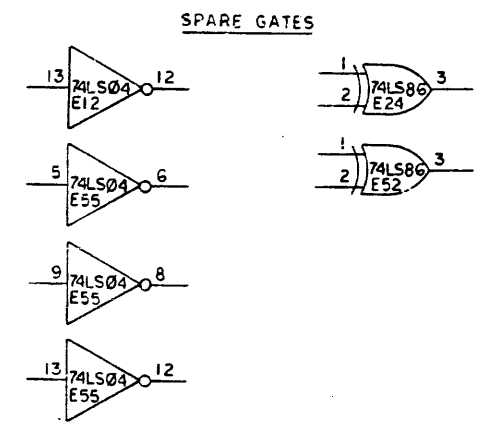
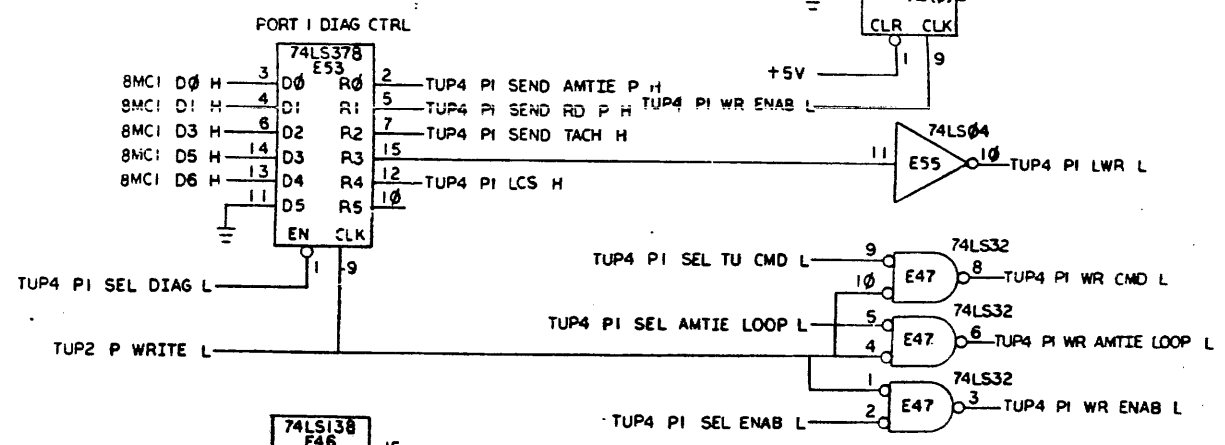
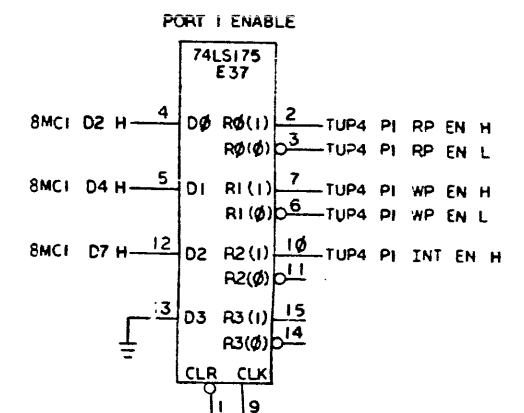
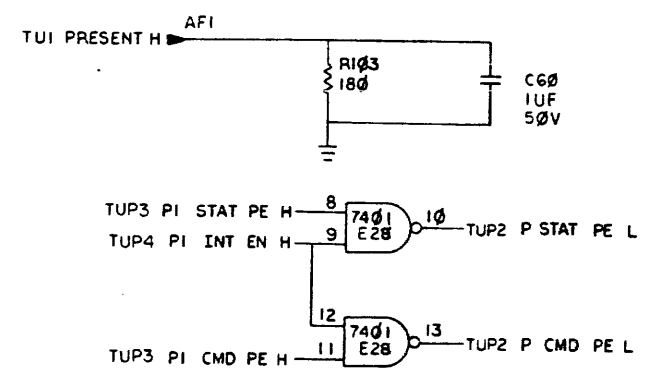
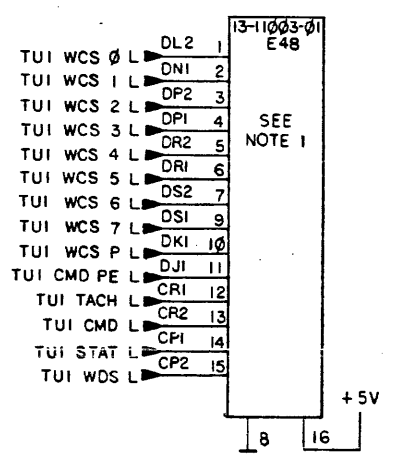
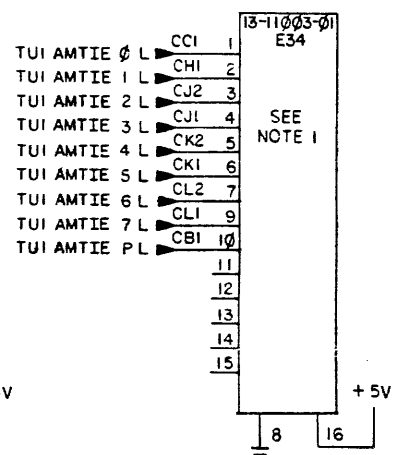
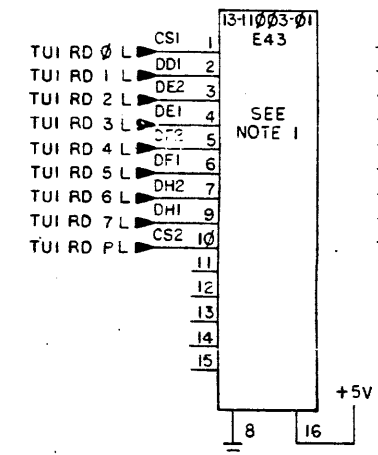
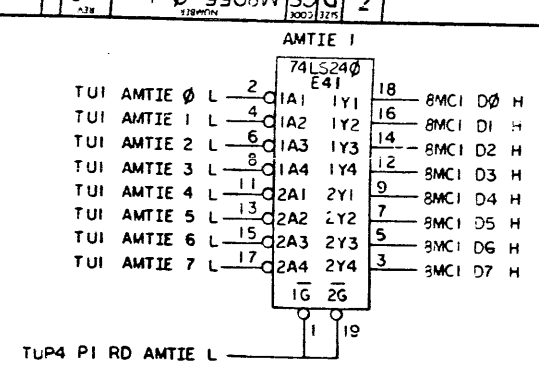
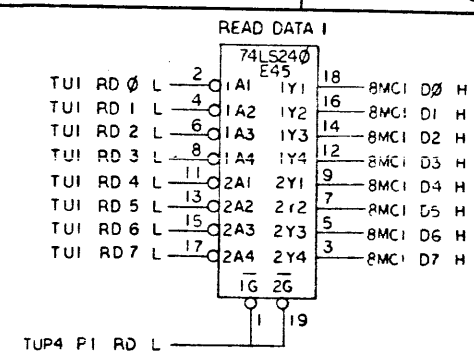
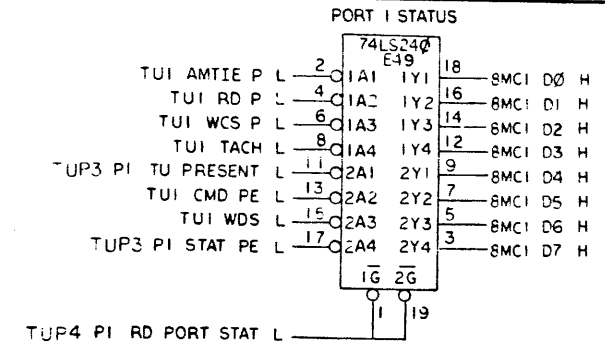
PORT I TUP3

TU PORT
SHEET 3 OF 4
M8955-0-1

M8955-0-1 C

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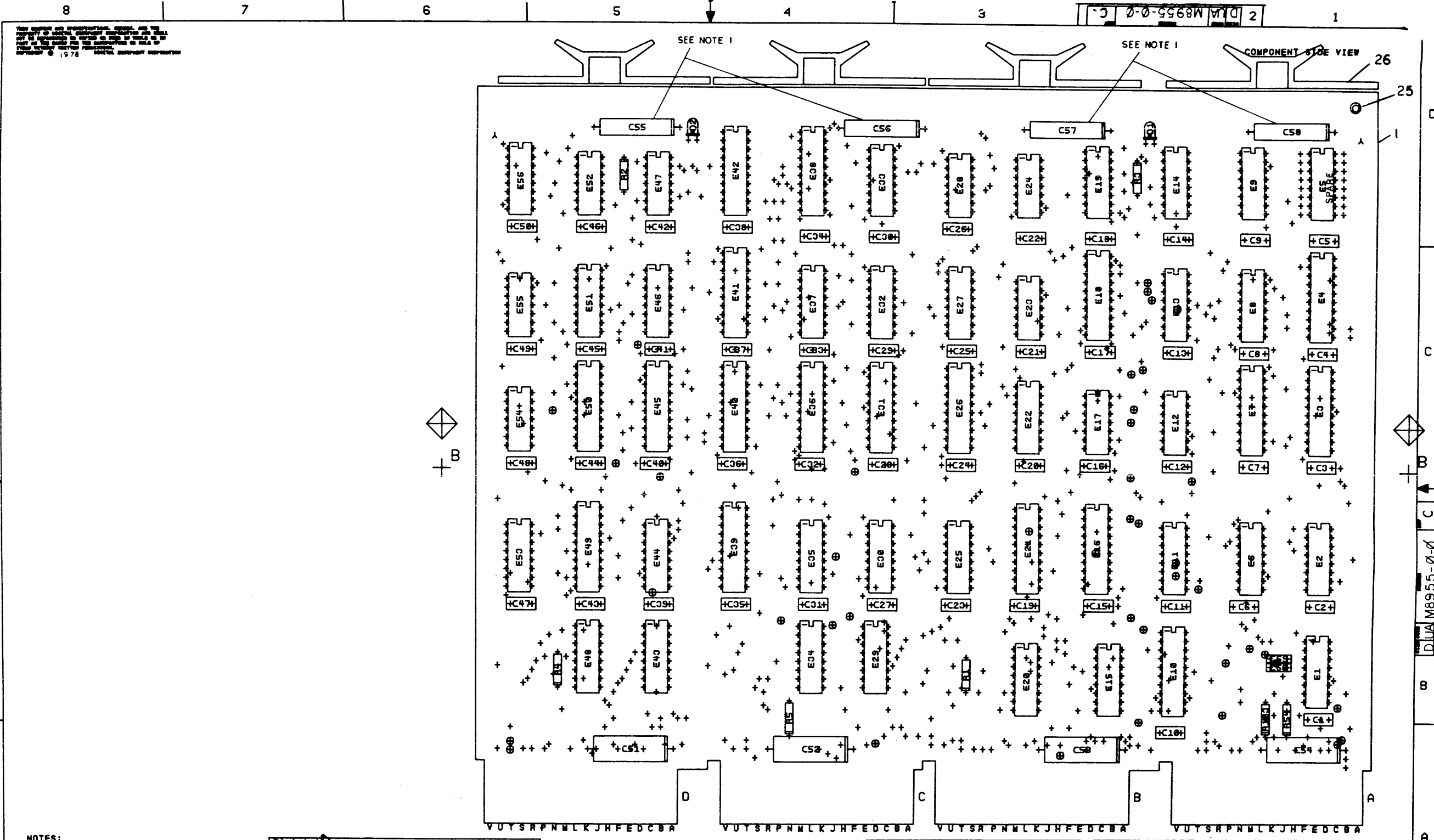
1-0-9968W 1510 2



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		TU PORT		SIZE	CODE	NUMBER	REV.
SCALE		SHEET 4 OF 4		DIST.	D CS	M8955-0-1	C

REV. C
D CS M8955-0-1



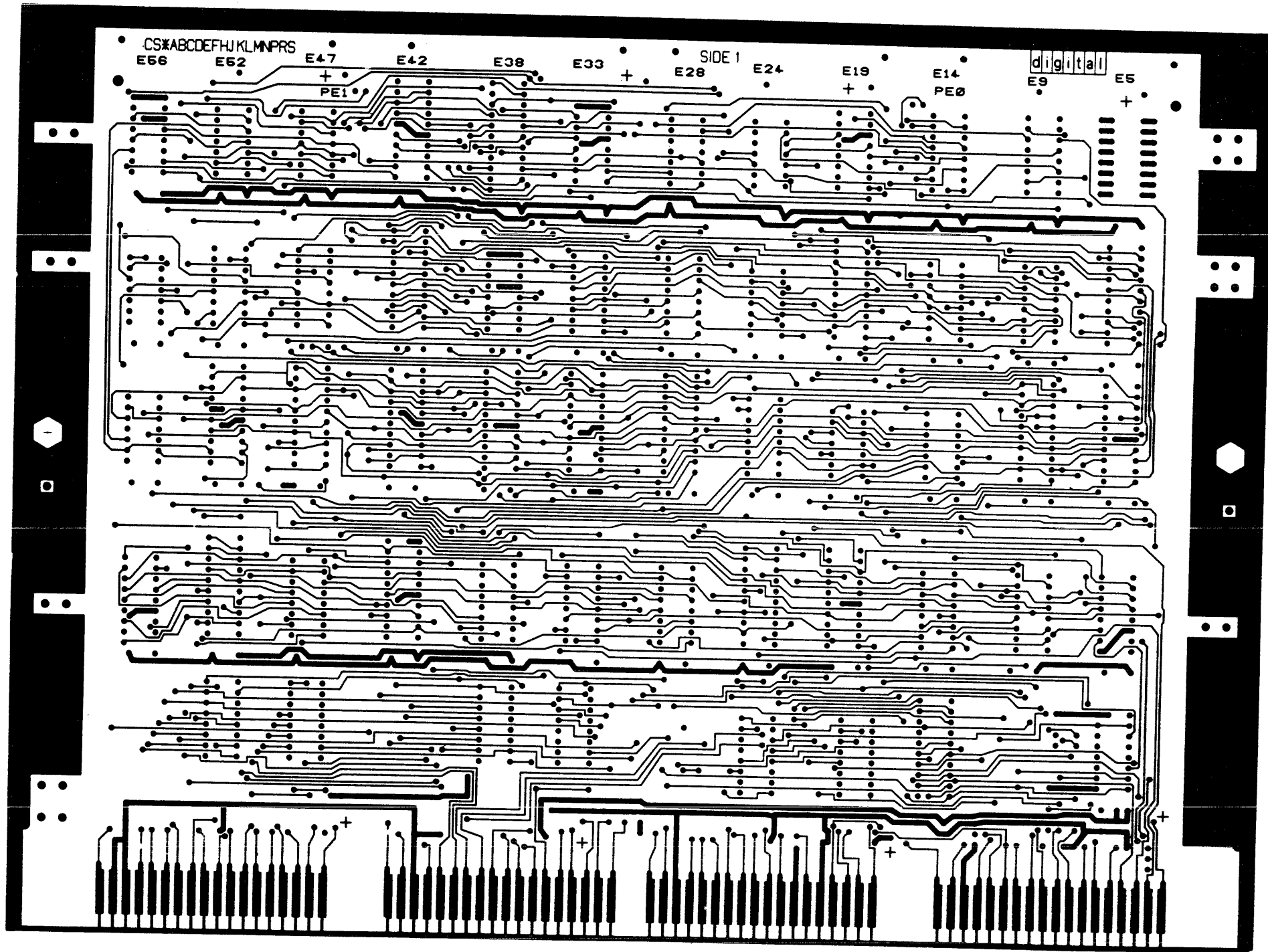
NOTES:
 1. HAND INSERT C55 THRU C58

CHANGE NO	REV	DATE	BY
1	C	11/21	D. JERVIS
2	B	11/21	D. JERVIS
3	A	11/21	D. JERVIS

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

SIGNATURES	DATE	TITLE
DRN. <i>Mary Carney</i>	11/21/78	digital TU PORT
CHK'D. <i>B. Carney</i>	11/21/78	
ENG. <i>D. S. Carney</i>	11/21/78	
PROD. <i>D. S. Carney</i>	11/21/78	
SCALE 2/1	SIZE CODE	NUMBER
SHT. 1 OF 5	0 U A M8955-0-0	C
NEXT HIGHER ASSY. B-DD-M8955-0		

LAYER 1



REVISION		
CHK	CHANGE NO	REV

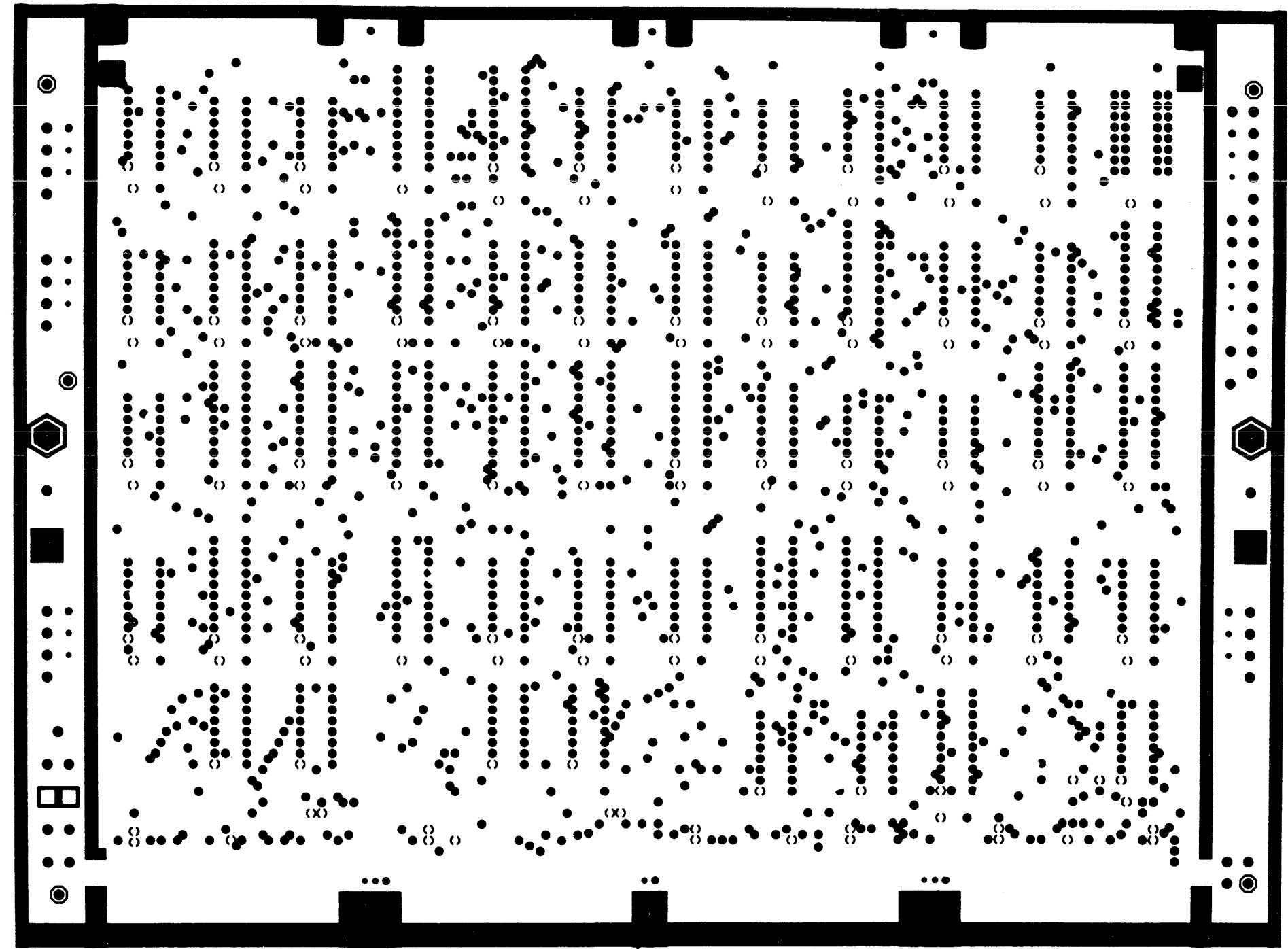
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M8955 5013001C L2

DUA M8955-0-0 2

LAYER 2



D
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D
C
B
A

DUA M8955-0-0

REV	DATE	BY	CHKD

TITLE	SIZE	CODE	NUMBER	REV.
TU PORT	D	UA	M8955-0-0	C

SCALE 2/1 SHEET 3 OF 5 DIST

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

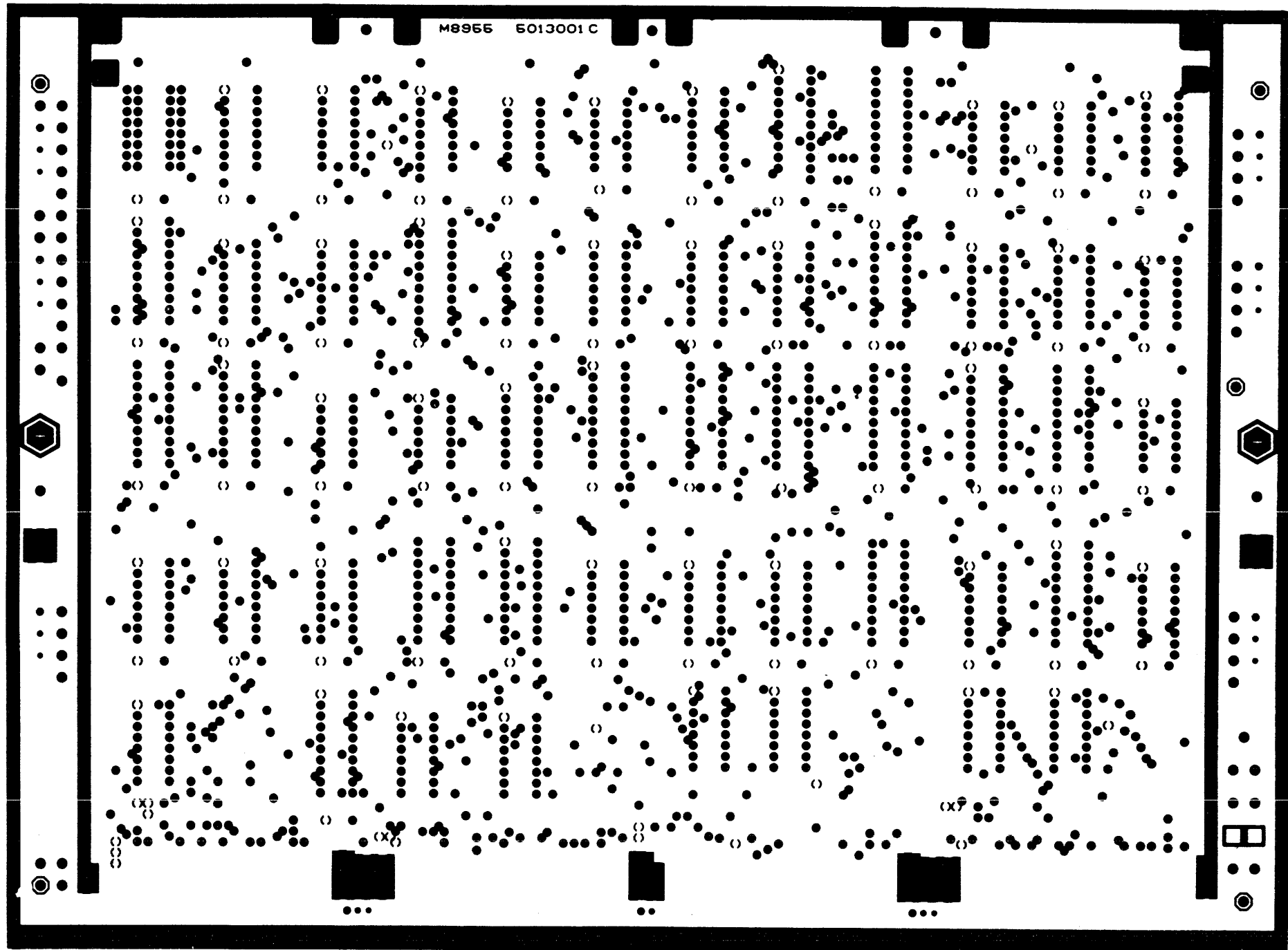
01311

Ø-Ø-9968W M D 2

L3

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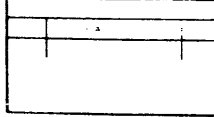
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D C B A

D C B A

D/JA M8955-Ø-Ø



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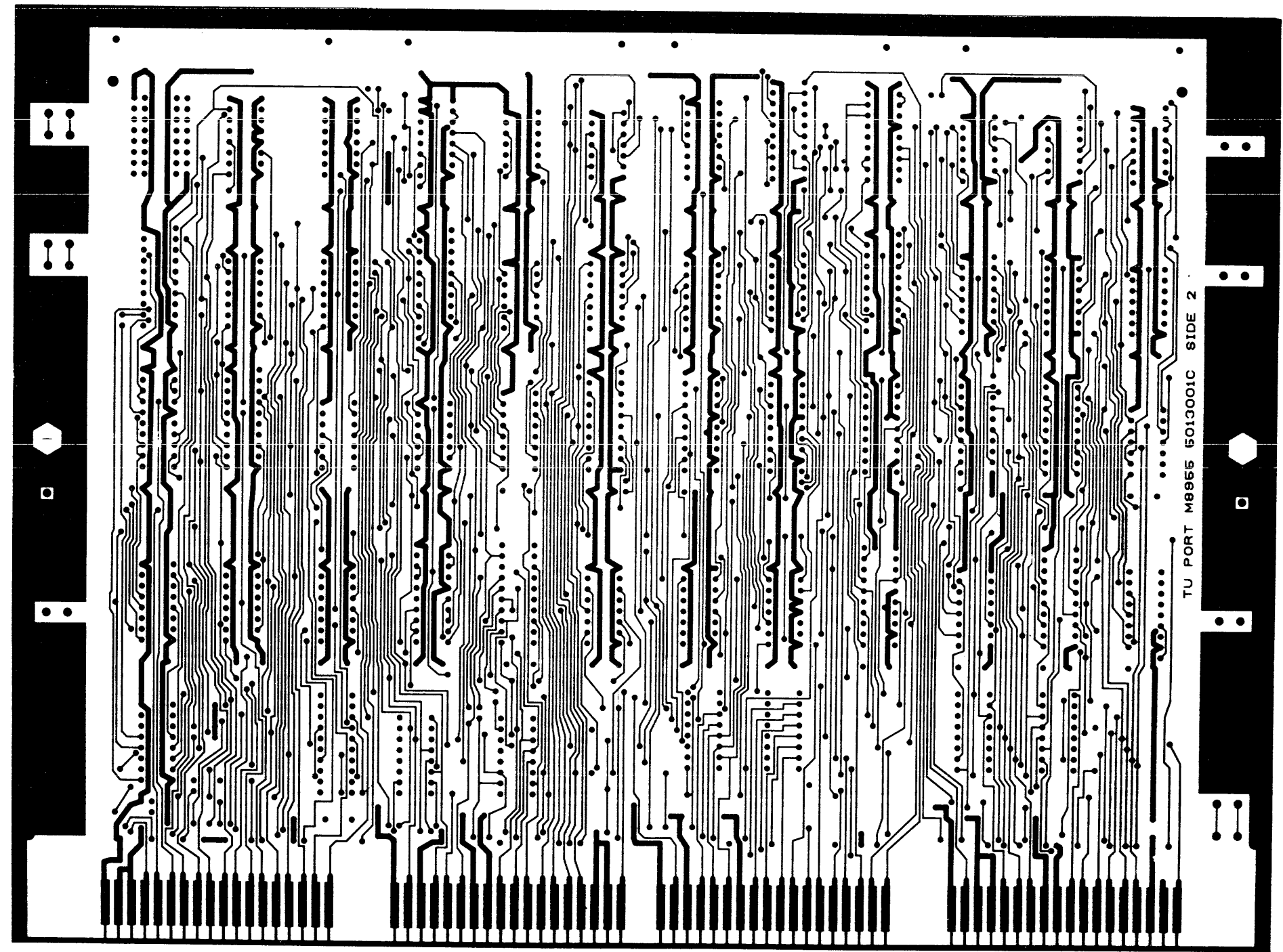
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SCALE	2/1	SHEET	4	OF	5	DIST	

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DUA M8955-0-0 2

L4

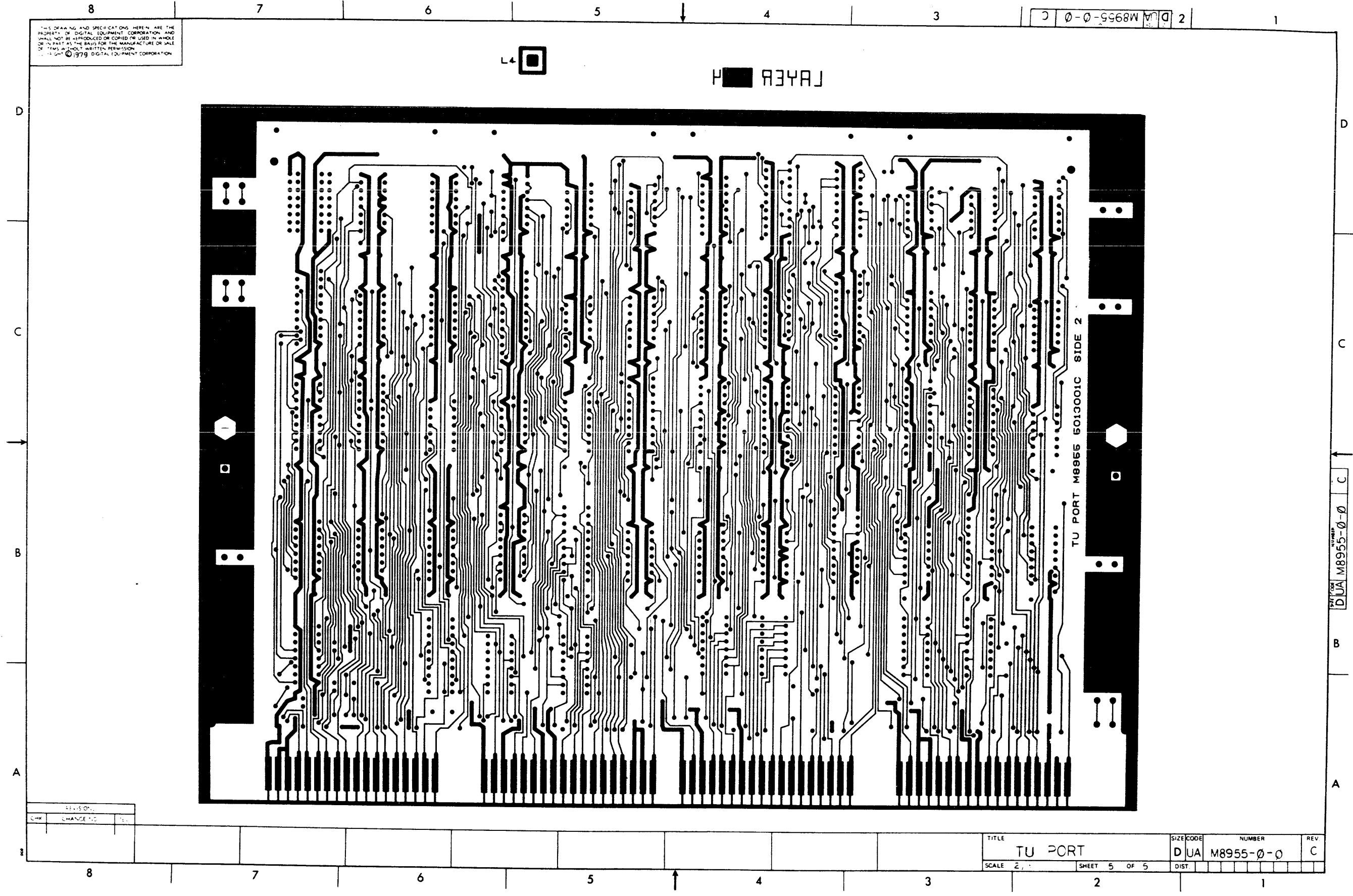
LAYER



TU PORT M8955 5013001C SIDE 2

REVISION		
CHK	CHANGE NO.	DATE

TITLE	SIZE CODE	NUMBER	REV.
TU PORT	DUA	M8955-0-0	C
SCALE 2.1	SHEET 5 OF 5	DIST.	



PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1		5013001-00	TU PORT	1	
2	2		1002433-00	22 MFD 35V 20% S.TANT	4	C51-C54
3	3		1005306-00	6.8MFD 35V 10% S.TANT	4	C55-C58
4	4		1010274-02	1 MFD 50V XZ 2C023 CER.	2	C59,C60
5	5		1012784-00	.047 MFD 50V -20+80 CER	50	C1-C50
6	6		1110324-00	LED 1NCD010MA PIV=3	2	D1,D2
7	7		1300417-00	2.2 K 1/4W 5% CC	1	R5
8	8		1301322-00	180 1/4W 5% CC	2	R54,R103
9	9		1301972-00	270 1/4W 5% CC	2	R2,R3
10	10		1302388-00	2 K 1/4W 5% CC	2	R1,R4
11	11		1311003-01	R NETWORK 14-180 14-390	6	E15,E20,E29,E34,E43,E48
12	12		1905590-00	DEC 7401 NAND GATE-QUAD 2IN,0	1	E28
13	13		1912801-00	LS02 NOR-GATE-QUAD 2IN	2	E17,E54
14	14		1912803-00	LS04 INVERTER GATE-HEX 1I	2	E12,E55
15	15		1912816-00	LS32 OR GATE-QUAD 2IN,POS	2	E23,E47
16	16		1912829-00	LS86 X-OR GATE-QUAD 2IN	2	E24,E52
17	17		1912833-00	LS109 FF-JK DUAL,POS EDGE	2	E19,E56
18	18		1912842-00	LS138 DECODER-THREE INPUT,	2	E22,E46
19	19		1912853-00	LS175 FF-D QUAD	2	E33,E37
20	20		1913777-00	LS240 DRIVER,LINE,OCTAL,T	6	E4,E7,E26,E41,E45,E49
21	21		1913788-00	26S10 TRANSCEIVER,BUS,QUA	14	E1,E25,E51,E6,E8,E9,E11,E13,E14,
22	22		1914213-00	81LS97 BUFFER GATE-OCTAL 2I	4	CONT E27,E30,E32,E35,E44
23	23		1914414-00	2907 TRANSCEIVER,BUS,QUA	8	E10,E18,E21,E38
24	24		1914867-00	FF-D HEX, COMMON REG	2	E3,E16,E31,E36,E39,E40,E42,E50
25	25		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	8	E2,E53
26	26		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
27	27	IC SPARE			1	E5
28	28	D-UA-M8955-0-0		UNIT ASSY	REF	
29	29	D-CS-M8955-0-1		CIRCUIT SCHEMATIC	REF	

REVISION HISTORY		BASIC PART NO: M8955		DRN:	R.SULLIVAN	DATE:	27-FEB-78	DIGITAL			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	W.CASSIDY	DATE:	07-AUG-78	TITLE PARTS LIST			
DJ	M8955-ML001	C	SECTION VARIATION INDEX	DES.ENG:	D.JERVIS	DATE:	11-MAY-79	TU PORT			
			[A] 00	RESP.ENG.:	D.JERVIS	DATE:	11-MAY-79	DOCUMENT NUMBER			
			[B]	MFG.ENG.:	P.BARTON	DATE:	11-MAY-79	SIZE	CODE	NUMBER	REV
			[C]	ASSEMBLY NUMBER:	D-UA-M8955-0-0	TOP DOCUMENT NUMBER:	B-DD-M8955-0-0	K	PL	M8955-0-DBP	C
			[D]			FILE NAME:	Z0567C.PLS				EDIT #
			[E]								32
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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AUTOMATED BY PRTLST.1D(10)

PARTS LIST

SHEET A2 OF A2

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
00

REFERENCE DESIGNATOR

30 30 D-MD-5013001-0-0

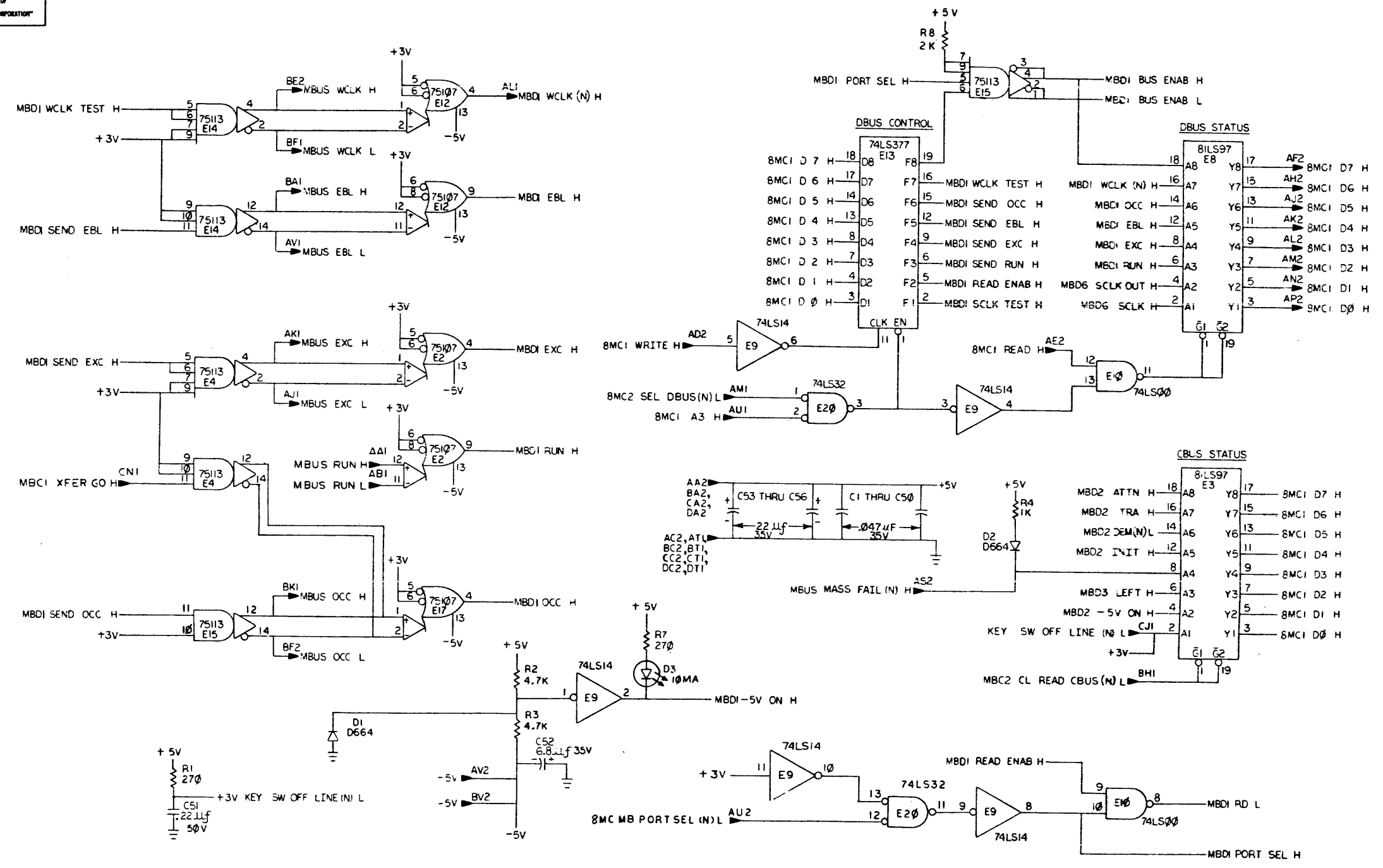
DRILL & ETCH DWG

REF

D	I	G	I	T	A	L	TITLE	TU PORT	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M8955-0-DBP	C

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1-0-9968W 2



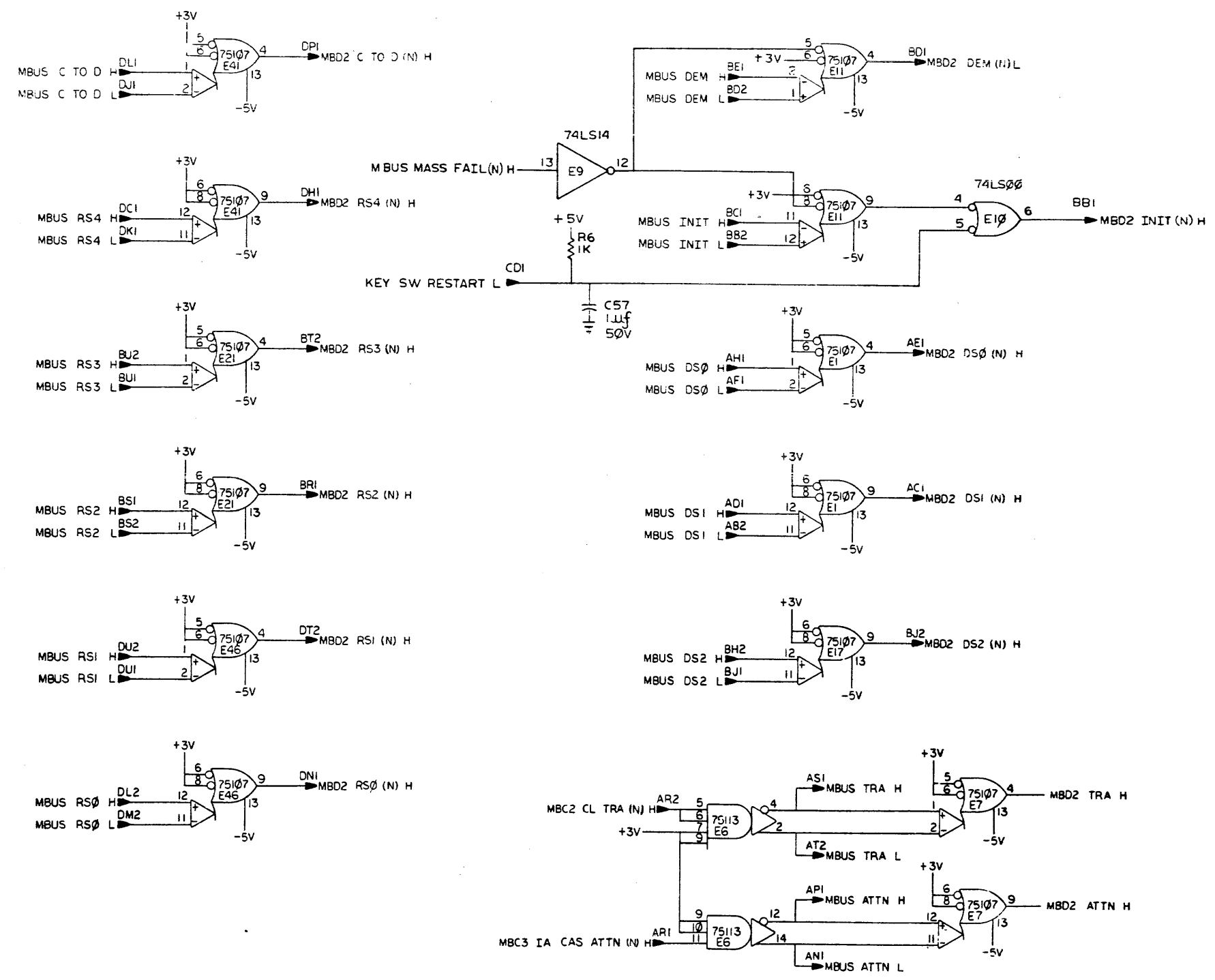
REV.	CHG.	DATE	BY	CHK.	DESCRIPTION
1		7/15/80	DAVID J. JERVIS		INITIAL DESIGN
2		7/15/80	DAVID J. JERVIS		REVISION
3		7/15/80	DAVID J. JERVIS		REVISION
4		7/15/80	DAVID J. JERVIS		REVISION
5		7/15/80	DAVID J. JERVIS		REVISION
6		7/15/80	DAVID J. JERVIS		REVISION
7		7/15/80	DAVID J. JERVIS		REVISION
8		7/15/80	DAVID J. JERVIS		REVISION

8085 INTERFACE		FIRST USED ON	
DRW: [Signature]	CHK'D: [Signature]	DATE: 1-19-78	TITLE: MASS BUS DATA PORT MBD1
ENG: B. S. Jervis	PROJ. ENG: [Signature]	PROD: [Signature]	DATE: 1-17-80
NEXT HIGHER ASSY:	B-DD-M8956-0	SIZE CODE:	D
SCALE:	1	NUMBER:	1
SHEET:	1	OF:	6
DIST.:		CS	M8956-0-1

M8956-0-1

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9-9969A SC 2

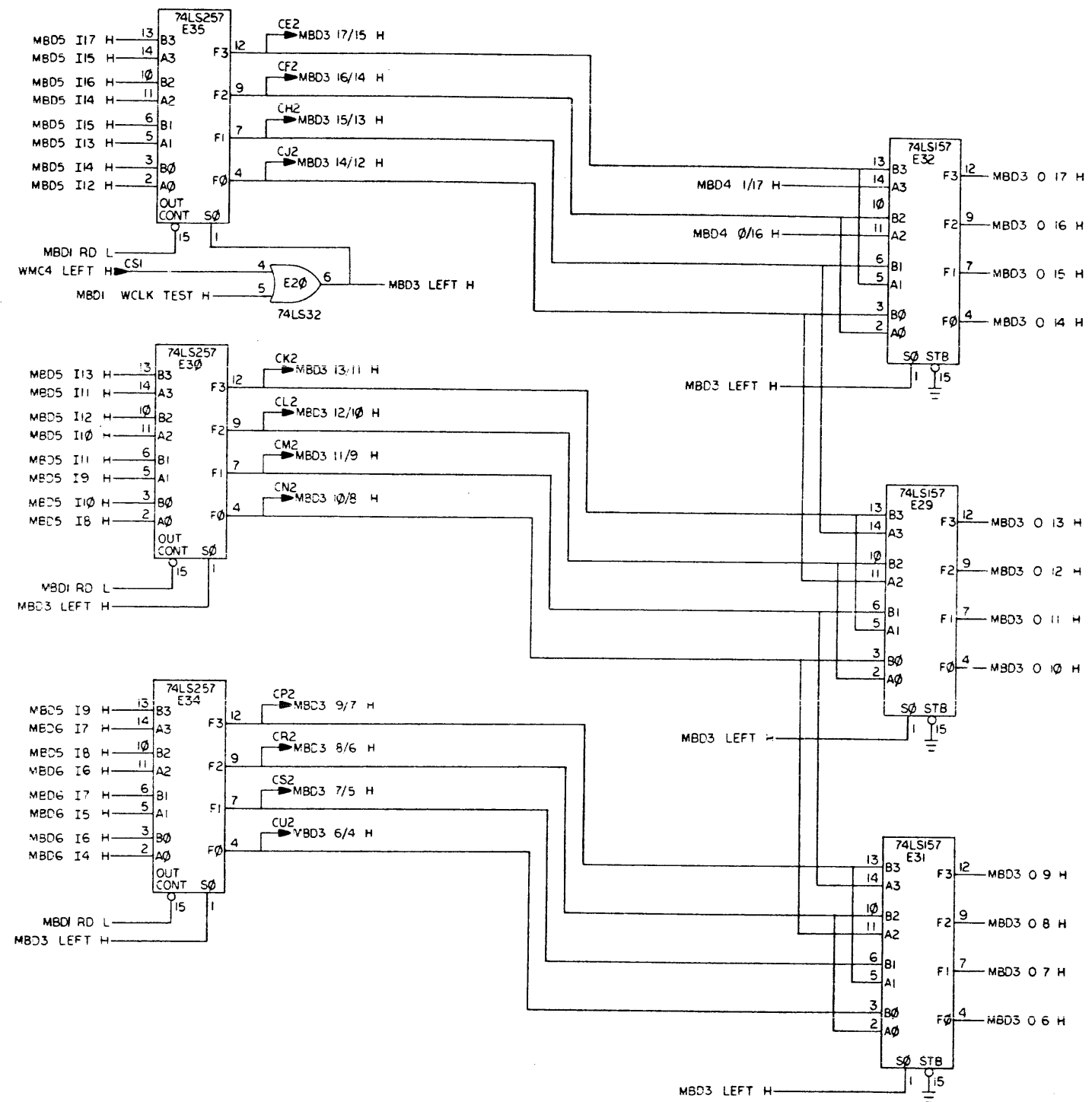


REV. D
NUMBER M8956-0-1
DCS

REVISIONS		
CHK	CHANGE NO.	REV

TITLE		CONTROL BUS MBD2	
MASS BUS DATA PORT		SIZE CODE	NUMBER
		DCS	M8956-0-1
SCALE	SHEET 2 OF 6	DIST.	REV. 0

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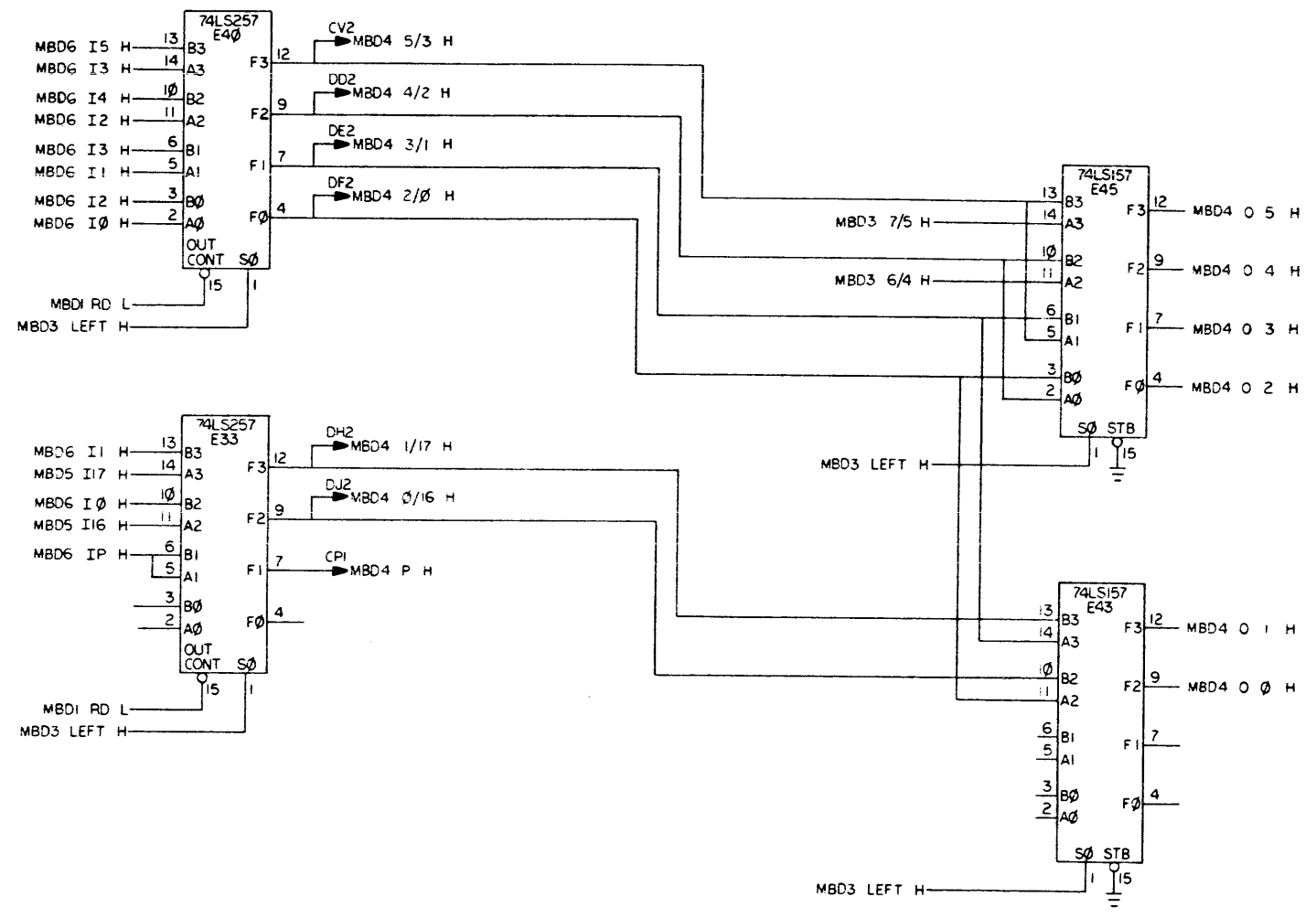
REVISIONS		
CHK	CHANGE NO	REV

MBD3
DATA MULTIPLEXORS 1

TITLE	SIZE/SCALE	NUMBER	REV.
MASS BUS DATA PORT	DCS	M8956-01	D
SCALE	SHEET 3 OF 6	DIST.	

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D 1-0-9968W 2



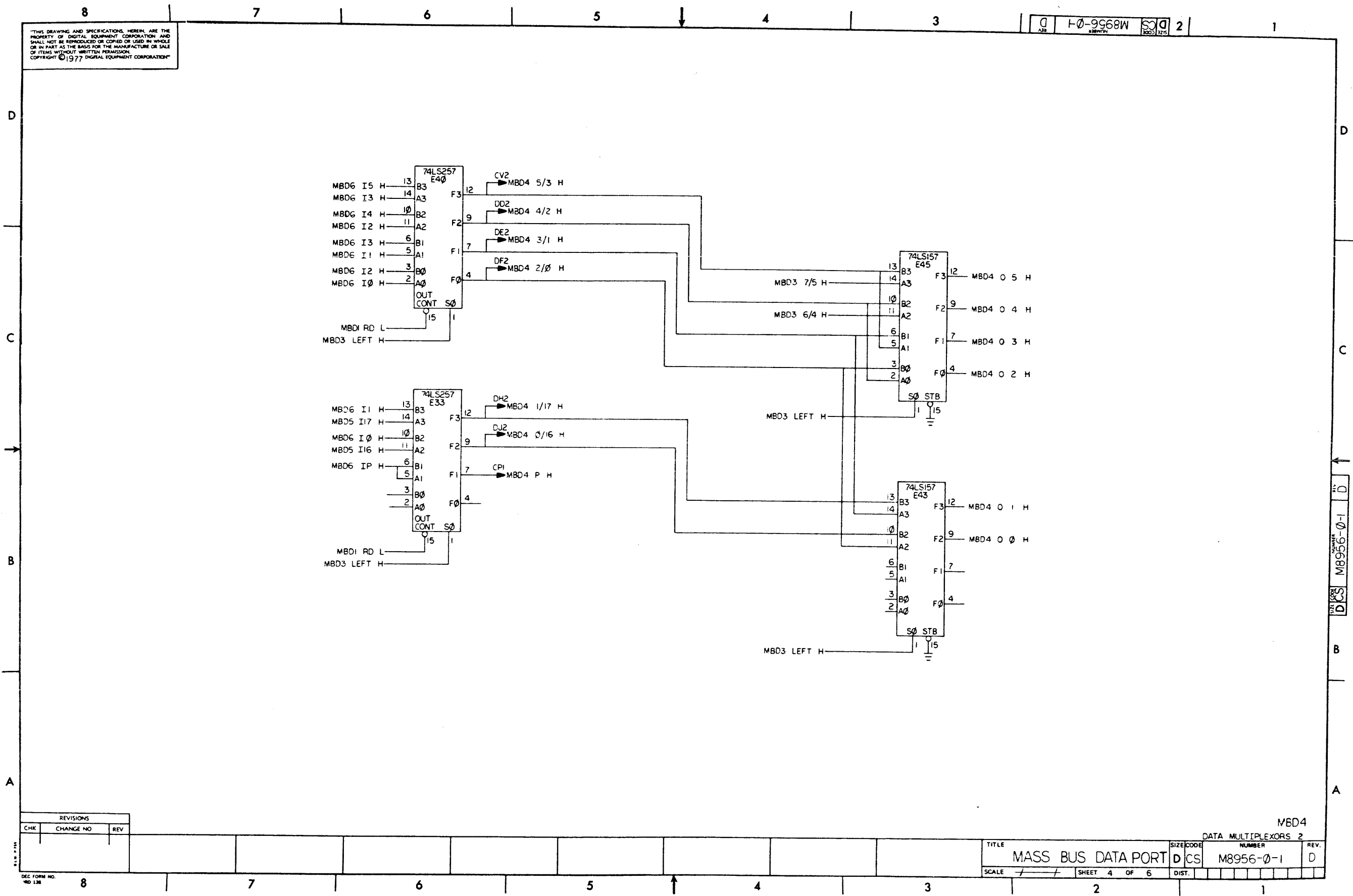
REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 138

TITLE		SIZE/CODE	NUMBER	REV.
MASS BUS DATA PORT		D CS	M8956-0-1	D
SCALE	SHEET	OF	DIST.	
	4	6		

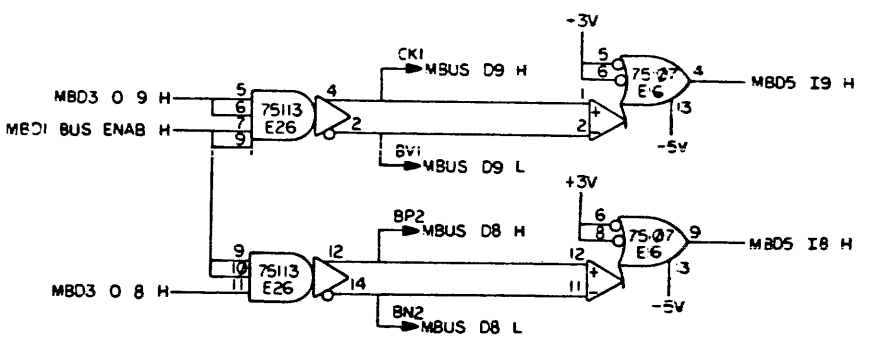
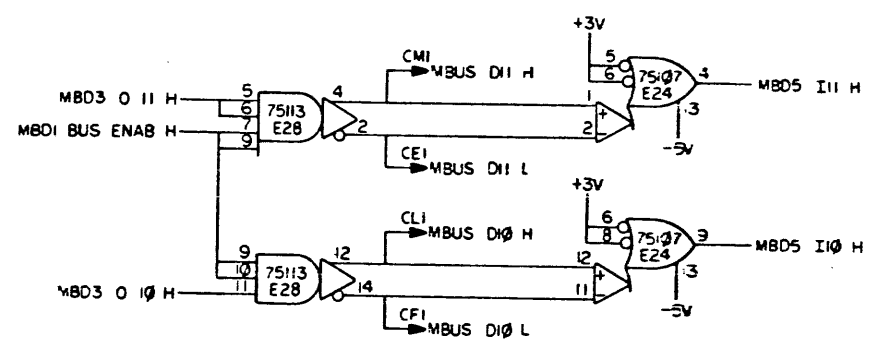
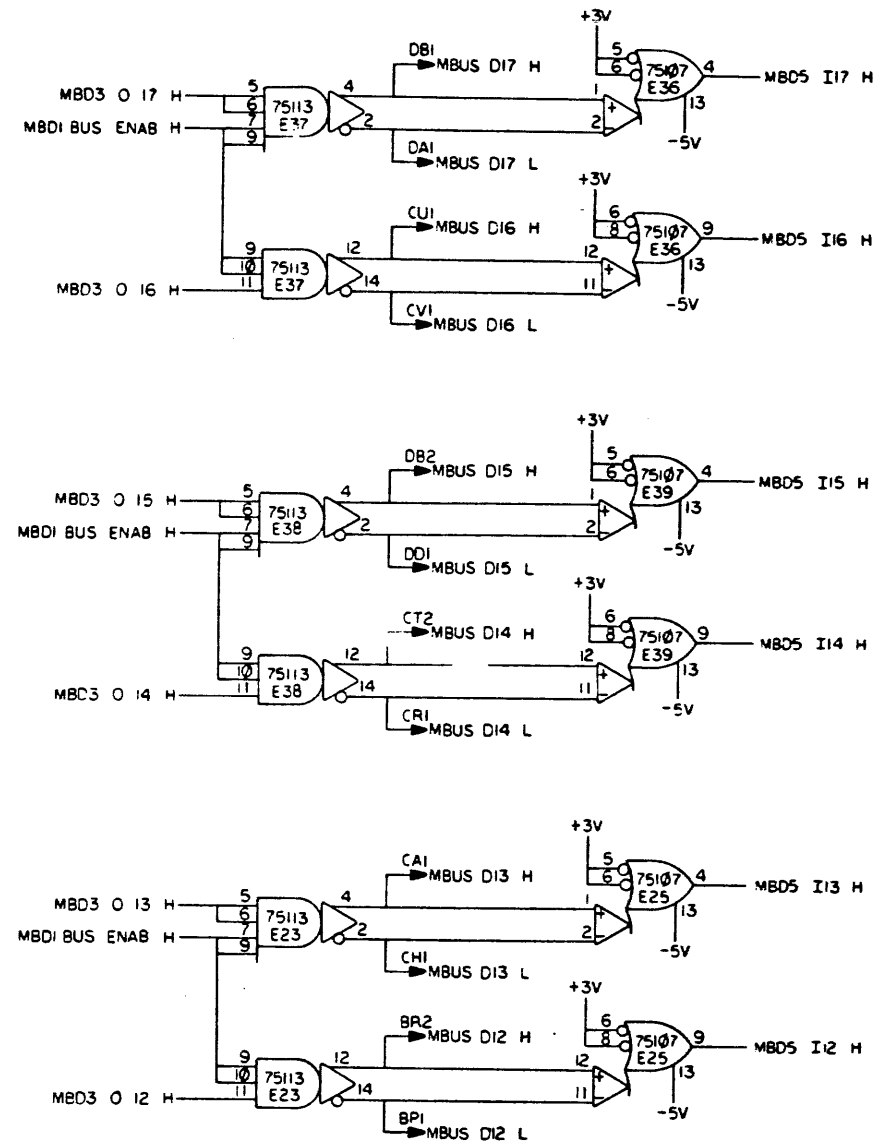
M6D4

DATA MULTIPLEXORS 2



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1-0-9968W 500 2



REVISIONS		
CHK	CHANGE NO	REV

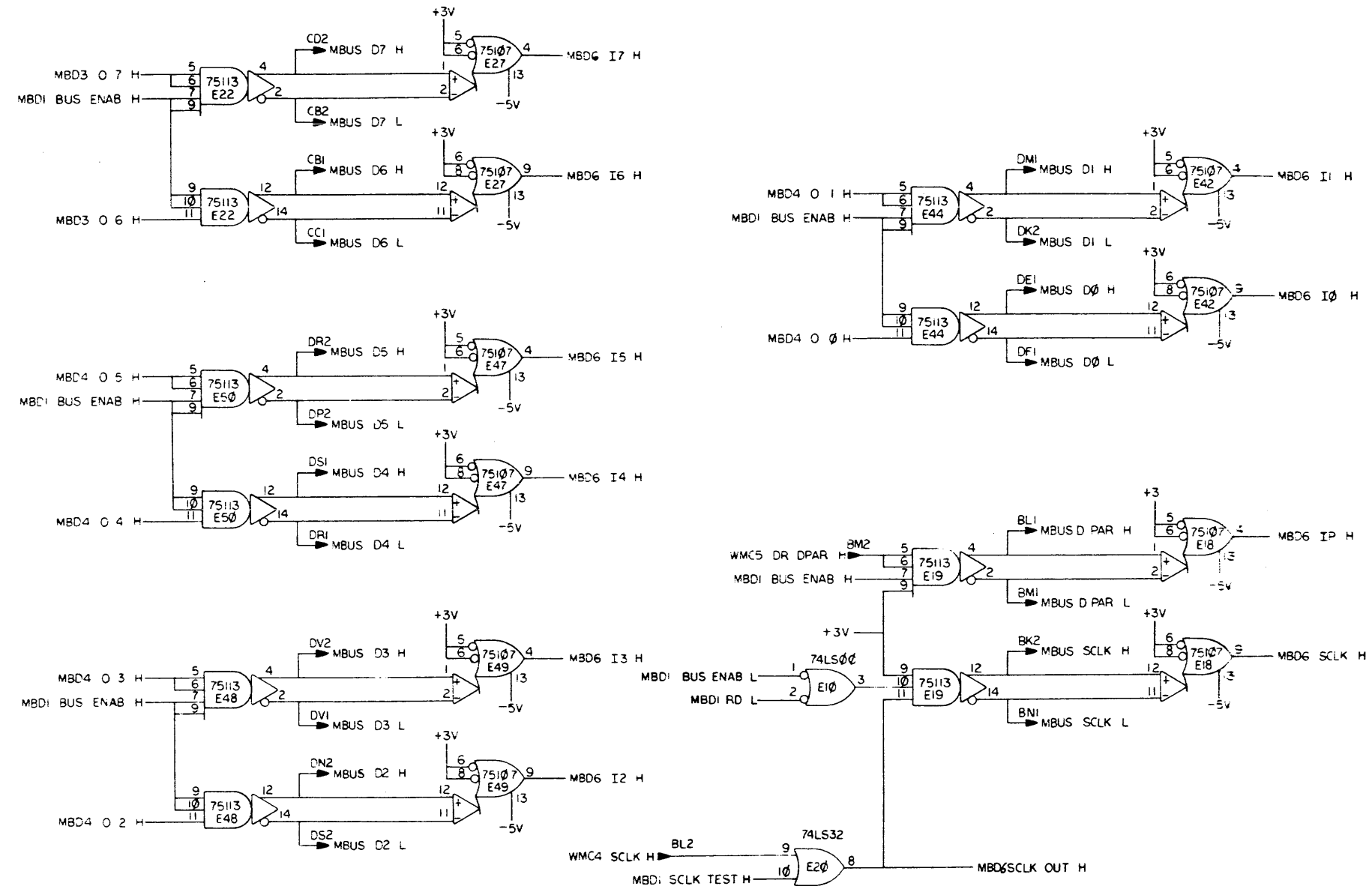
TITLE		DATA BUS 1		REV.
VASS BUS DATA PORT		SIZE CODE	NUMBER	D
SCALE		SHEET 5 OF 6	DCS M8956-0-1	D

REV. 1
DCS M8956-0-1

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D
C
B
A

D
C
B
A



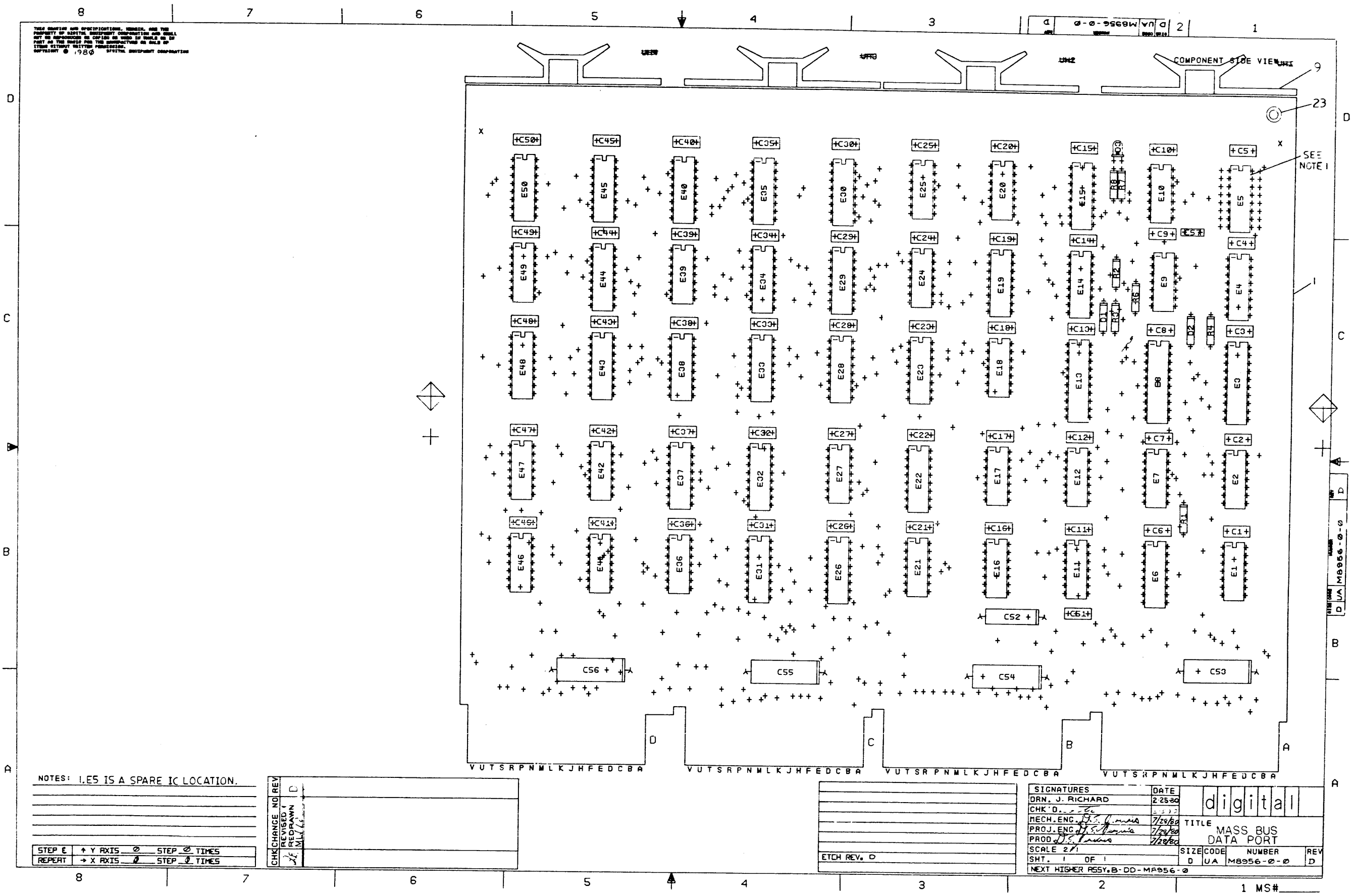
REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 780 136

REV. 10/77 NUMBER M8956-0-1 DCS

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D U A M8956-0-0 2



NOTES: 1.E5 IS A SPARE IC LOCATION.

STEP E	+ Y AXIS	0	STEP	0	TIMES
REPEAT	+ X AXIS	0	STEP	0	TIMES

CHK/CHANGE NO	REV	
REVISION		
REDRAWN		
DATE		

ETCH REV.	D
-----------	---

SIGNATURES		DATE	digital
DRN. J. RICHARD		2.25.80	
CHK'D. <i>[Signature]</i>		2.25.80	
RECH. ENG. <i>[Signature]</i>		7/29/80	
PROJ. ENG. <i>[Signature]</i>		7/29/80	
TITLE			MASS BUS DATA PORT
SCALE 2/1	SIZE	CODE	NUMBER
SHT. 1 OF 1	D	UA	M8956-0-0
NEXT HIGHER ASSY. B-DD-MA956-0			

1 MS#

PARTS LIST

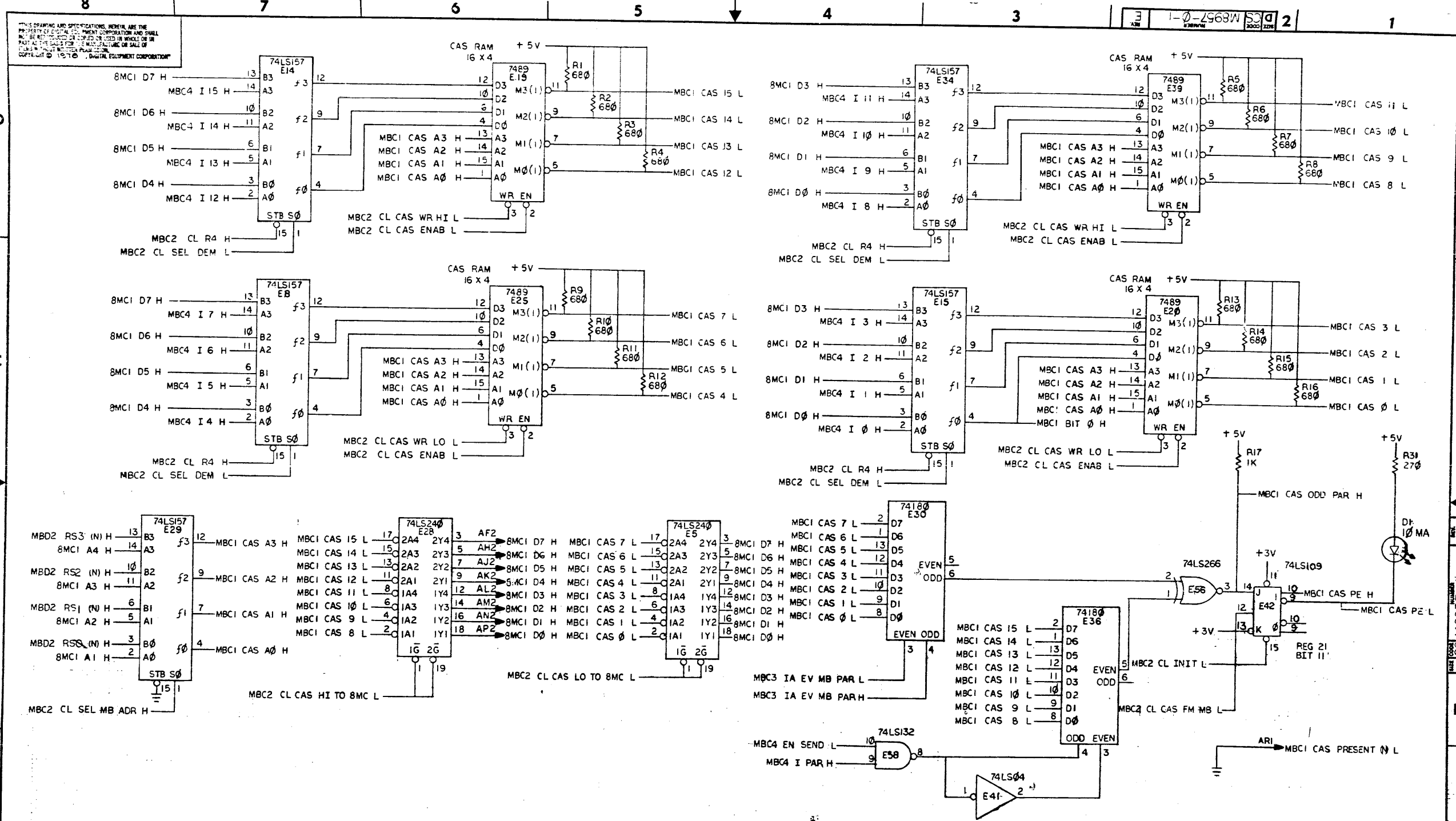
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	1	5013039-00	MASS BUS DATA PORT	1	
2	2	1005306-00	6.8MFD 35V 10% S.TANT	1	C52
3	3	1010274-01	.22 MFD 50V +80-20% Z5U CER	1	C51
4	4	1010274-02	1 MFD 50V +80-20% CER	1	C57
5	5	1012784-00	.047 MFD 50V +80-20% CER	50	C1-C50
6	6	1002433-00	22 MFD 35V 20% S.TANT	4	C53-C56
7	7	1100114-00	D 664 QS\75PCB PIV= 25V SP	2	D1,D2
8	8	1110324-00	LED 1MCD@10MA PIV=3	1	D3
9	9	9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
10	10	1301972-00	270.0 .25 W 5.0 % CC	2	R7,R1
11	11	1300365-00	1.0 K .25 W 5.0 % CC	2	R4,R6
12	12	1300447-00	4.70 K .25 W 5.0 % CC	2	R2,R3
13	13	1302177-00	*** THIS ITEM IS NOT USED ***	-	
14	14	1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	19	E1,E2,E7,E11,E12,E16-E18,E21, E24,E25,E27,E36,E39,E41,E42,E46, E47,E49
15	15	1911341-00	75113 DRIVER,LINE,DUAL,MA	14	E4,E6,E14,E19,E22,E23,E26,E28, E37,E38,E44,E48,E50,E15
16	16	1912647-00	LS257 MUX 1 OF 2 (QUAD)	5	E30,E33-E35,E40
17	17	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	E10
18	18	1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E20
19	19	1912847-00	LS157 MUX 1 OF 2(QUAD)	5	E29,E31,E32,E43,E45
20	20	1912872-00	LS377 FF-D 8BIT W/ENABLE	1	E13
21	21	1913414-00	LS14 INVERTER GATE-HEX SC	1	E9
22	22	1914213-00	81LS97 BUFFER GATE-OCTAL 2I	2	E3,E8
23	23	9006732-00	EYELET, ROLLED FLANGE, .121 OD X	8	
24	24	9105740-55	*** THIS ITEM IS NOT USED ***	-	
25	25	1302388-00	2.0 K .25 W 5.0 % CC	1	R8
26	26	D-UA-M8956-0-0	UNIT ASSY	REF	
27	27	D-CS-M8956-0-1	CIRCUIT SCHEMATIC	REF	

REVISION HISTORY			BASIC PART NO: M8956		DRN:	STU KLOTZLE	DATE: 28-AUG-78	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	L. THOMPkins	DATE: 28-AUG-78	TITLE	PARTS LIST			
	INIT	B	SECTION VARIATION INDEX				MASS BUS DATA PORT				
DJ	M8956-ML001	C	[A] 00								
DJ	M8956-ML002	D	[B]								
			[C]	DES.ENG:	R. RICHMOND	DATE: 28-SEP-78					
			[D]								
			[E]	RESP.ENG.:	D. JERVIS	DATE: 28-SEP-78	DOCUMENT NUMBER				
			[F]								
			[G]				SIZE CODE NUMBER REV				
			[H]	MFG.ENG.:	R. BARTON	DATE: 28-SEP-78	K PL M8956-0-DBP	D			
			[I]	ASSEMBLY NUMBER:	D-UA-M8956-0-0	TOP DOCUMENT NUMBER:	B-DD-M8956-0-0	FILE NAME:	Z0811D.PLS	EDIT #:	16
			[J]								
			[K]								

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
28	28	D-MD-5013039-0-0	DRILL & ETCH DWG	REF	
29	29	D-EC-5013039-0-0	ETCH CUT DWG	REF	
30	30	9107688-22	*** THIS ITEM IS NOT USED ***	-	
31	31	9107688-00	*** THIS ITEM IS NOT USED ***	-	

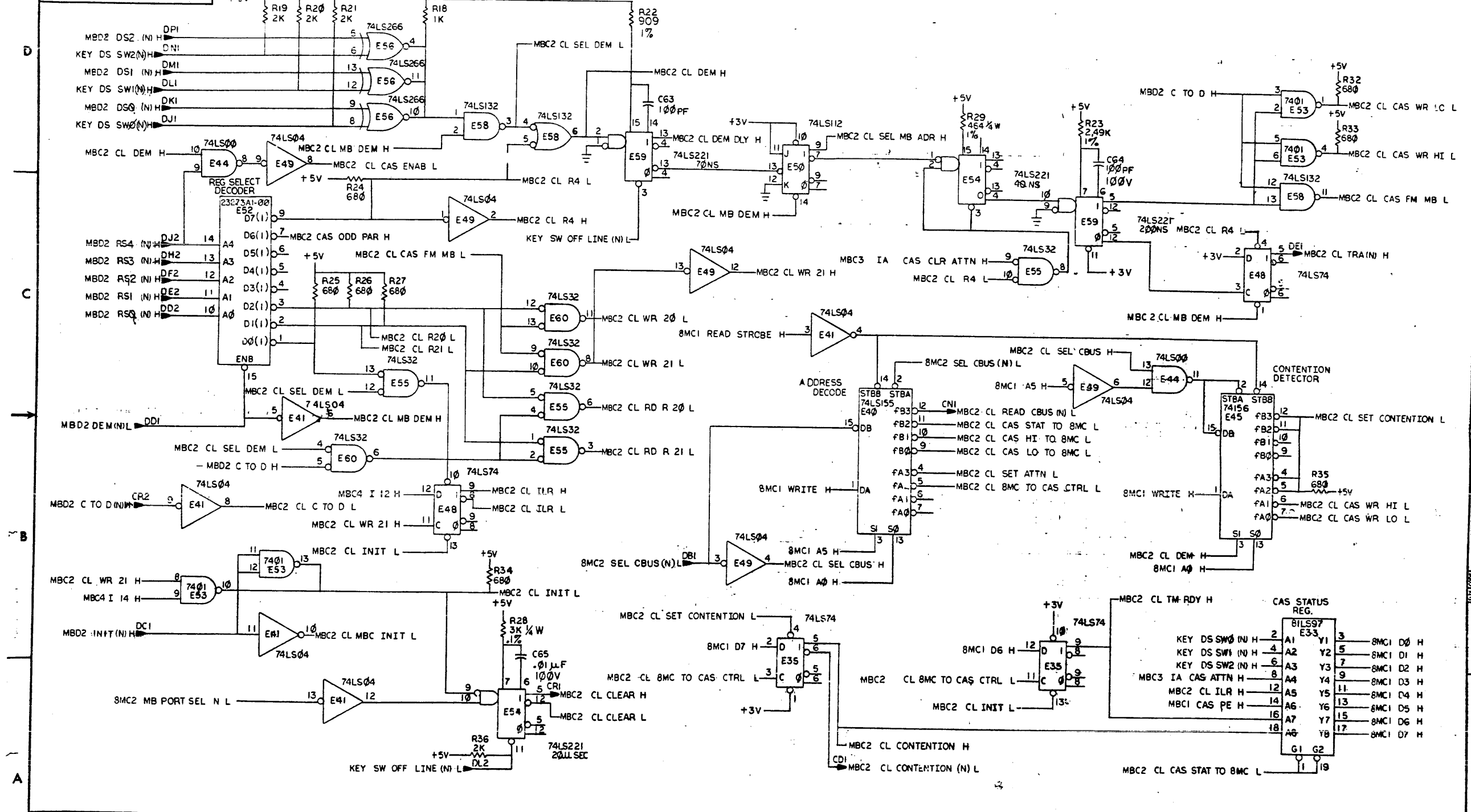
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MASS BUS DATA PORT				M8956-0-DBP	D



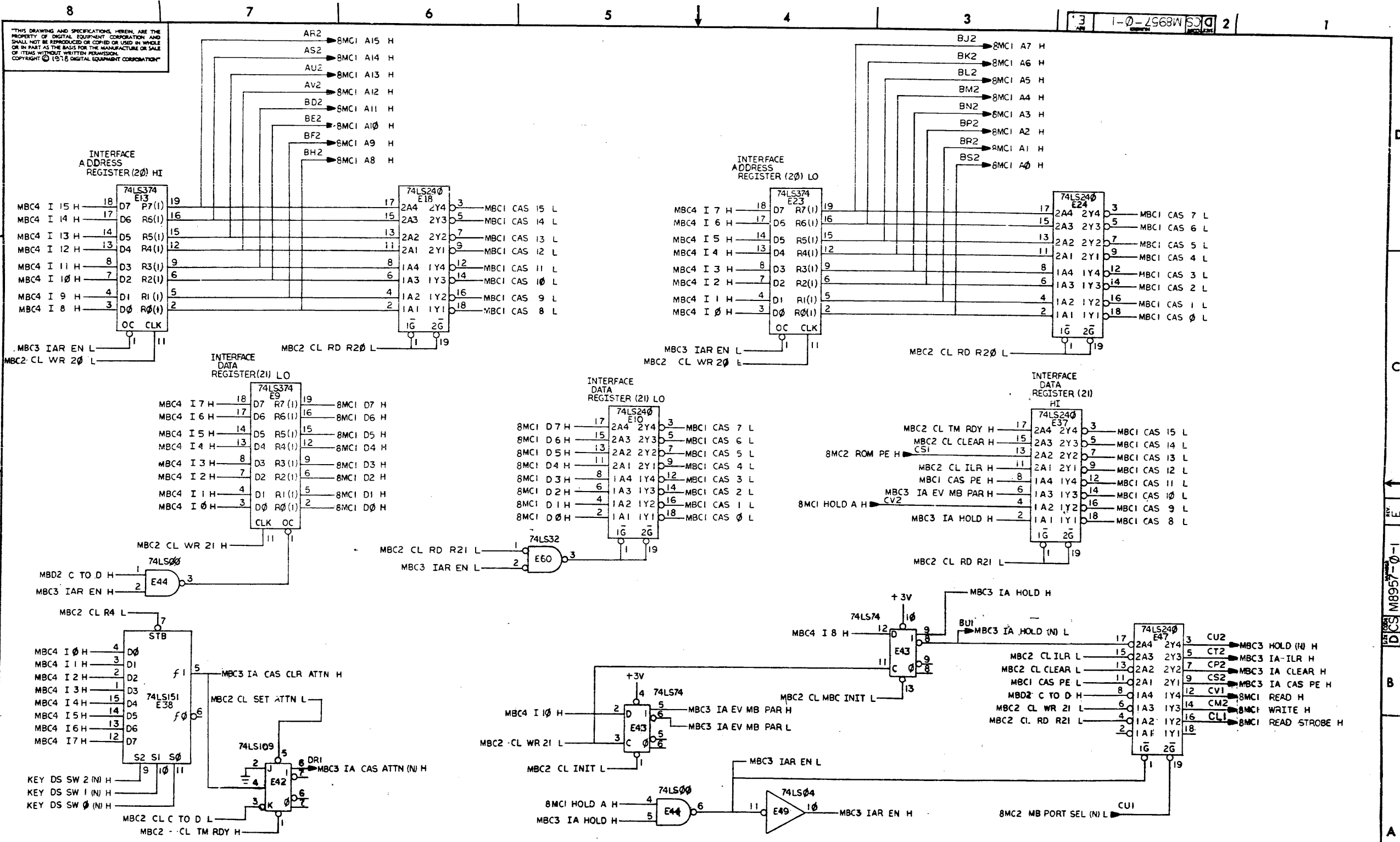
REV.	CHANGE NO.	BY	DATE
1	1	D. JERVIS	12/1/78
2	1	D. JERVIS	12/1/78
3	1	D. JERVIS	12/1/78
4	1	D. JERVIS	12/1/78
5	1	D. JERVIS	12/1/78
6	1	D. JERVIS	12/1/78
7	1	D. JERVIS	12/1/78
8	1	D. JERVIS	12/1/78

COMMON ADDRESS SPACE		FIRST USED ON	
DRN	8/12/78	CHK'D	8/12/78
ENG	8/12/78	PROJ. ENG.	8/12/78
PROD. PR.	8/12/78	NEXT HIGHER ASSY.	
B-DD-M8957-0		SCALE	NONE
SHEET 1 OF 5		SIZE	CODE
DIST.		NUMBER	REV.
SHO		D CSI M8957-0-1	E

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REVISIONS			CONTROL LOGIC		MBC2	
CHK	CHANGE NO.	REV.	TITLE	SIZE	NUMBER	REV.
			MASSBUS CONTROL (CL)	D	CS M8957-0-1	E
			SCALE NONE	SHEET 2 OF 5	DIST.	



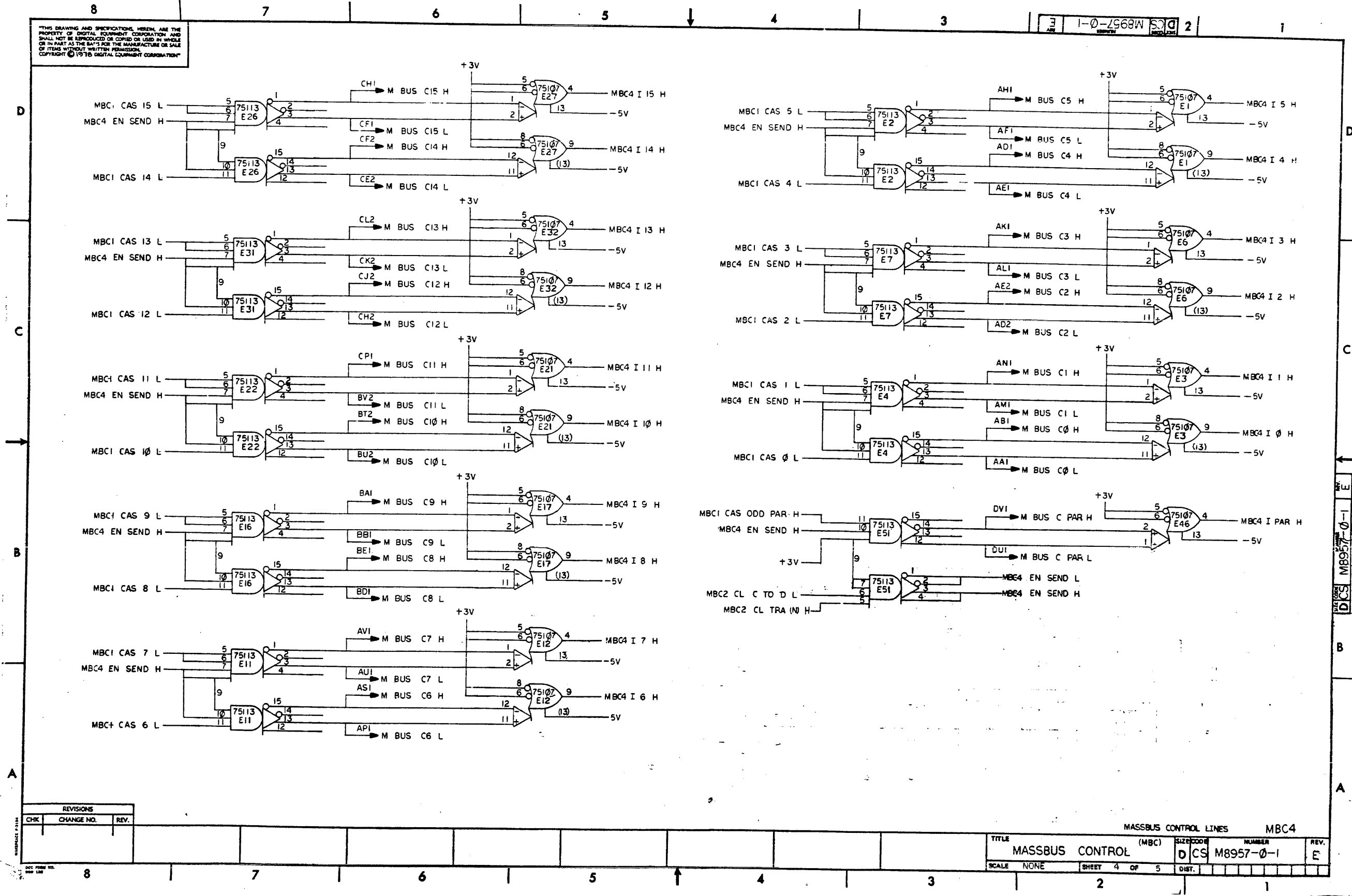
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		INTERNAL ADDRESSING		NUMBER		REV.
MASSBUS CONTROL (IA)		MBC3		D CS M8957-0-1		E
SCALE	NONE	SHEET	3 OF 5	DIST.		

M8957-0-1

REV. E

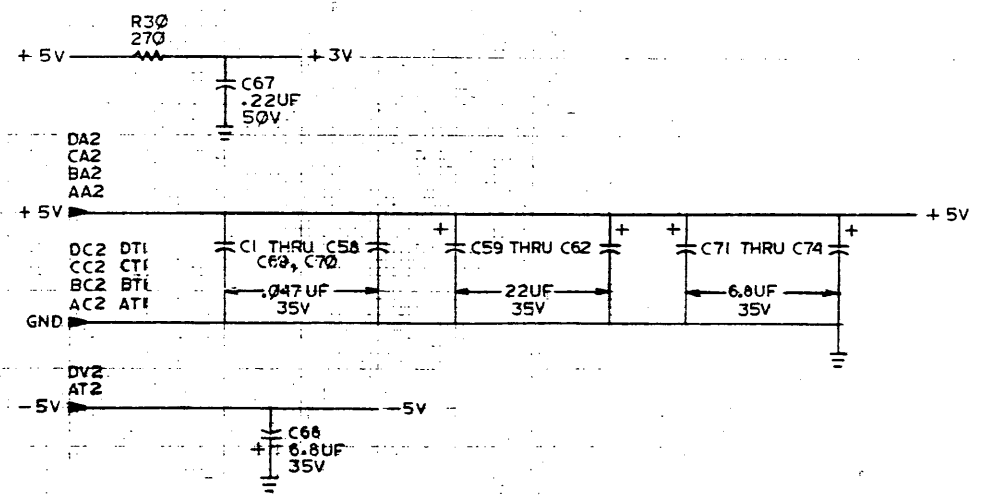
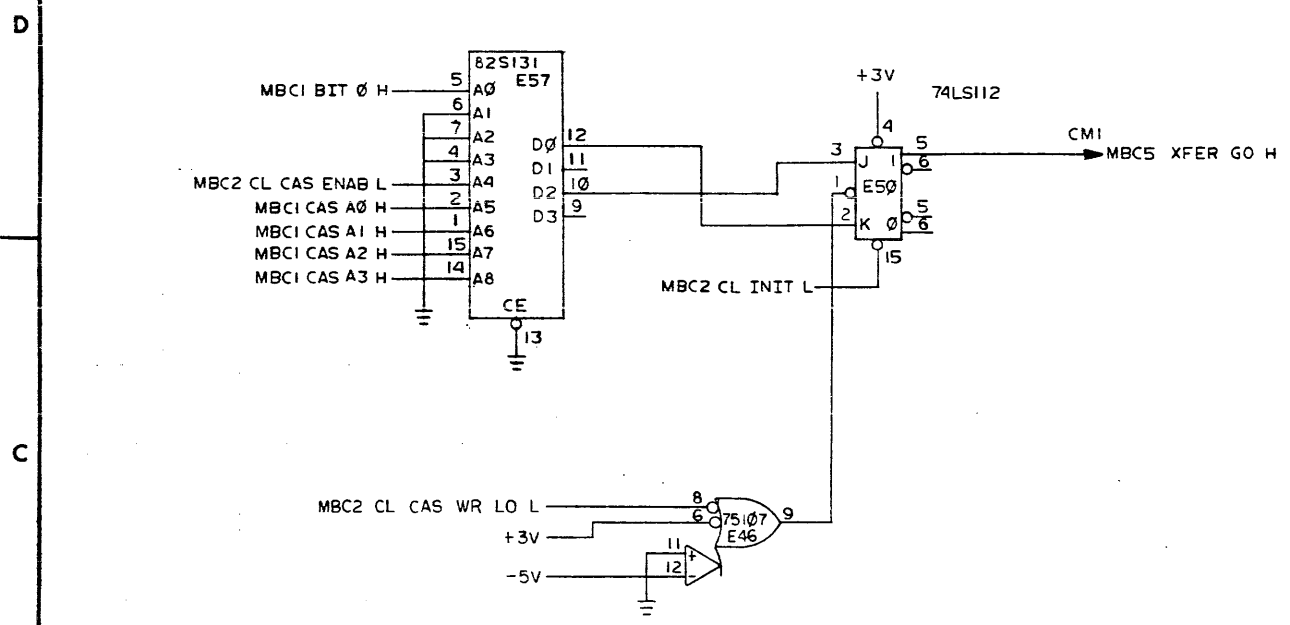
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		MASSBUS CONTROL (MBC)		SIZE CODE		NUMBER		REV.	
SCALE NONE		SHEET 4 OF 5		D CS		M8957-0-1		E	

D CS M8957-0-1 E



REVISIONS		
CHK	CHANGE NO.	REV.

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D U A M8957-0-0 2 1

REWORK INSTRUCTIONS

WIRE ADDS, SIDE 1

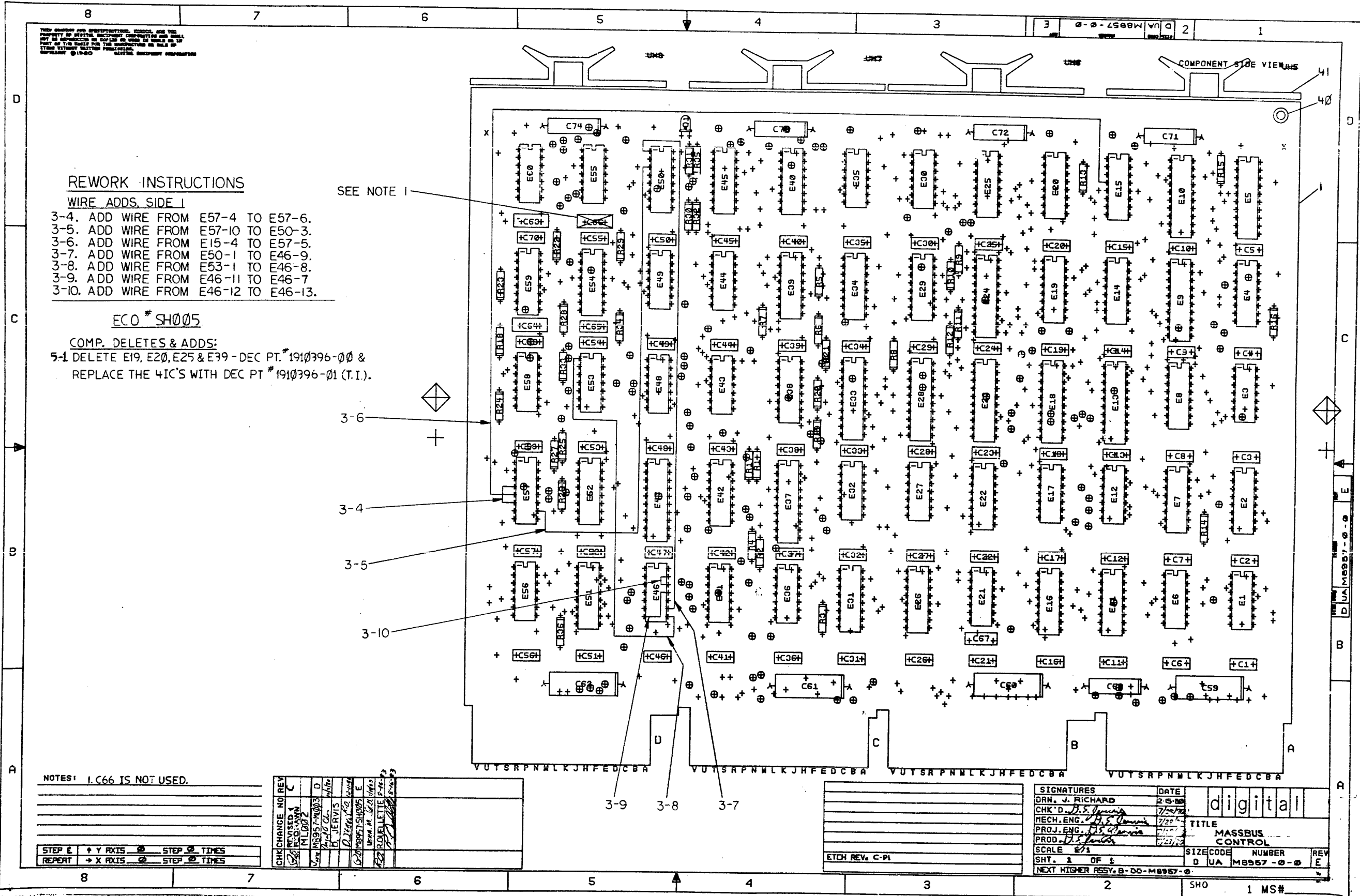
- 3-4. ADD WIRE FROM E57-4 TO E57-6.
- 3-5. ADD WIRE FROM E57-10 TO E50-3.
- 3-6. ADD WIRE FROM E15-4 TO E57-5.
- 3-7. ADD WIRE FROM E50-1 TO E46-9.
- 3-8. ADD WIRE FROM E53-1 TO E46-8.
- 3-9. ADD WIRE FROM E46-11 TO E46-7.
- 3-10. ADD WIRE FROM E46-12 TO E46-13.

ECO # SH005

COMP. DELETES & ADDS:

- 5-1 DELETE E19, E20, E25 & E39 - DEC PT. #1910396-00 & REPLACE THE 4IC'S WITH DEC PT #1910396-01 (T.I.).

SEE NOTE 1



NOTES: 1. C66 IS NOT USED.

STEP 1	Y AXIS	STEP 2	TIMES
REPEAT	X AXIS	STEP 3	TIMES

CHK	CHANGE NO	REV	DATE	BY
✓	1	C	11/10/80	J. RICHARD
✓	2	D	11/10/80	D. J. JERVIS
✓	3	E	11/10/80	D. J. JERVIS
✓	4	F	11/10/80	D. J. JERVIS
✓	5	G	11/10/80	D. J. JERVIS
✓	6	H	11/10/80	D. J. JERVIS
✓	7	I	11/10/80	D. J. JERVIS
✓	8	J	11/10/80	D. J. JERVIS
✓	9	K	11/10/80	D. J. JERVIS
✓	10	L	11/10/80	D. J. JERVIS
✓	11	M	11/10/80	D. J. JERVIS
✓	12	N	11/10/80	D. J. JERVIS
✓	13	O	11/10/80	D. J. JERVIS
✓	14	P	11/10/80	D. J. JERVIS
✓	15	Q	11/10/80	D. J. JERVIS
✓	16	R	11/10/80	D. J. JERVIS
✓	17	S	11/10/80	D. J. JERVIS
✓	18	T	11/10/80	D. J. JERVIS
✓	19	U	11/10/80	D. J. JERVIS

ETCH REV. C-P1

SIGNATURES		DATE	digital
DRN. J. RICHARD		2-5-80	
CHK'D. D.S. JERVIS		7/28/80	TITLE
MECH. ENG. D.S. JERVIS		7/28/80	
PROJ. ENG. D.S. JERVIS		7/28/80	CONTROL
PROD. D.S. JERVIS		7/28/80	
SCALE 1/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 1	D U A M8957-0-0	SHO	1 MS#
NEXT HIGHER REV. B-00-M8957-0			

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1		5013040-00	MASS BUS CONTROL	1		
2	2		1001610-01	.01 MFD 50/100V +80-20% DISC	1		C65
3	3		1000016-00	100.0 MFD 100V 5% 200PPM MICA	2		C63, C64
4	4		1012784-00	.047 MFD 50V +80-20% CER	60		C1-C58, C69, C70
5	5		1005306-00	6.8 MFD 35V 10% S.TANT	5		C68, C71-C74
6	6		1010274-01	.22 MFD 50V +80-20% Z5U CER	1		C67
7	7		1002433-00	22 MFD 35V 20% S.TANT	4		C59-C62
8	8		1110324-00	LED 1MCD@10MA PIV=3	1		D1
9	9		1301972-00	270.0 .25 W 5.0 % CF	2		R31, R30
10	10		1300365-00	1.0 K .25 W 5.0 % CF	2		R17, R18
11	11		1303047-00	464.0 .25 W 1.0 % RN55D-F10	1		R29
12	12		1312626-00	2.49 K .25 W 1.0 % RN55D-F10	1		R23
13	13		1301424-00	680.0 .25 W 5.0 % CF	24		R1-R16, R24-R27, R32-R35
14	14		1302685-00	909.0 .25 W 1.0 % RN55D-F10	1		R22
15	15		1302388-00	2.0 K .25 W 5.0 % CF	4		R19-R21, R36
16	16		1302676-00	3.0 K .25 W .10% RN55E-B 2	1		R28
17	17		1905590-00	DEC 7401 NAND GATE-QUAD 2IN, 0	1		E53
18	18		1910268-00	DEC 75107B RECEIVER, LINE, DUAL,	9		E1, E3, E6, E12, E17, E21, E27, E32, E46
19	19		1910396-00	*** THIS ITEM IS NOT USED ***	-		
20	20		1910724-00	74180 PARITY TREE, 8BIT GEN	2		E30, E36
21	21		1911341-00	75113 DRIVER, LINE, DUAL, MA	9		E2, E4, E7, E11, E16, E22, E26, E31, E51
22	22		1912799-00	LS00 NAND-GATE-QUAD 2IN, P	1		E44
23	23		1912803-00	LS04 INVERTER GATE, HEX	2		E41, E49
24	24		1912816-00	LS32 OR GATE-QUAD 2IN, POS	2		E55, E60
25	25		1912824-00	LS74 FF-D DUAL, EDGE TRIGG	3		E35, E43, E48
26	26		1912833-00	LS109 FF-JK DUAL, POS EDGE	1		E42
27	27		1912834-00	LS112 FF-JK, DUAL, EDGE TRIG	1		E50
28	28		1912838-00	LS132 NAND GATE-QUAD 2IN P	1		E58
29	29		1912844-00	LS151 MUX 1 OF 8 & DATA	1		E38
30	30		1912846-00	LS155 DECODER, 2 OF 4(DUAL)	1		E40

REVISION HISTORY			BASIC PART NO: M8957		DRN: H. RICHER DATE: 28-AUG-78		D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	DATE:	TITLE PARTS LIST			
	INIT	A	SECTION VARIATION INDEX	P. BOSSMAN	27-AUG-79	MASSBUS CONTROL			
DJ	M8957-ML001	B	[A] 00						
DJ	M8957-ML002	C	[B]						
DJ	M8957-ML003	D	[C]	DES. ENG: R. RICHMOND	27-AUG-79				
R.O.	M8957-SH005	E	[D]			DOCUMENT NUMBER			
			[E]	RESP. ENG.: D. JERVIS	27-AUG-79	SIZE: K	CODE: PL	NUMBER: M8957-0-DBP	REV: E
			[F]						
			[H]	MFG. ENG.: P. BARTON	27-AUG-79				
			[J]	ASSEMBLY NUMBER: D-UA-M8957-0-0		TOP DOCUMENT NUMBER: #B-DD-M8957-0		FILE NAME: ZC812E.PLS	EDIT #: 18
			[K]						
			[L]						
			[M]						
			[N]						

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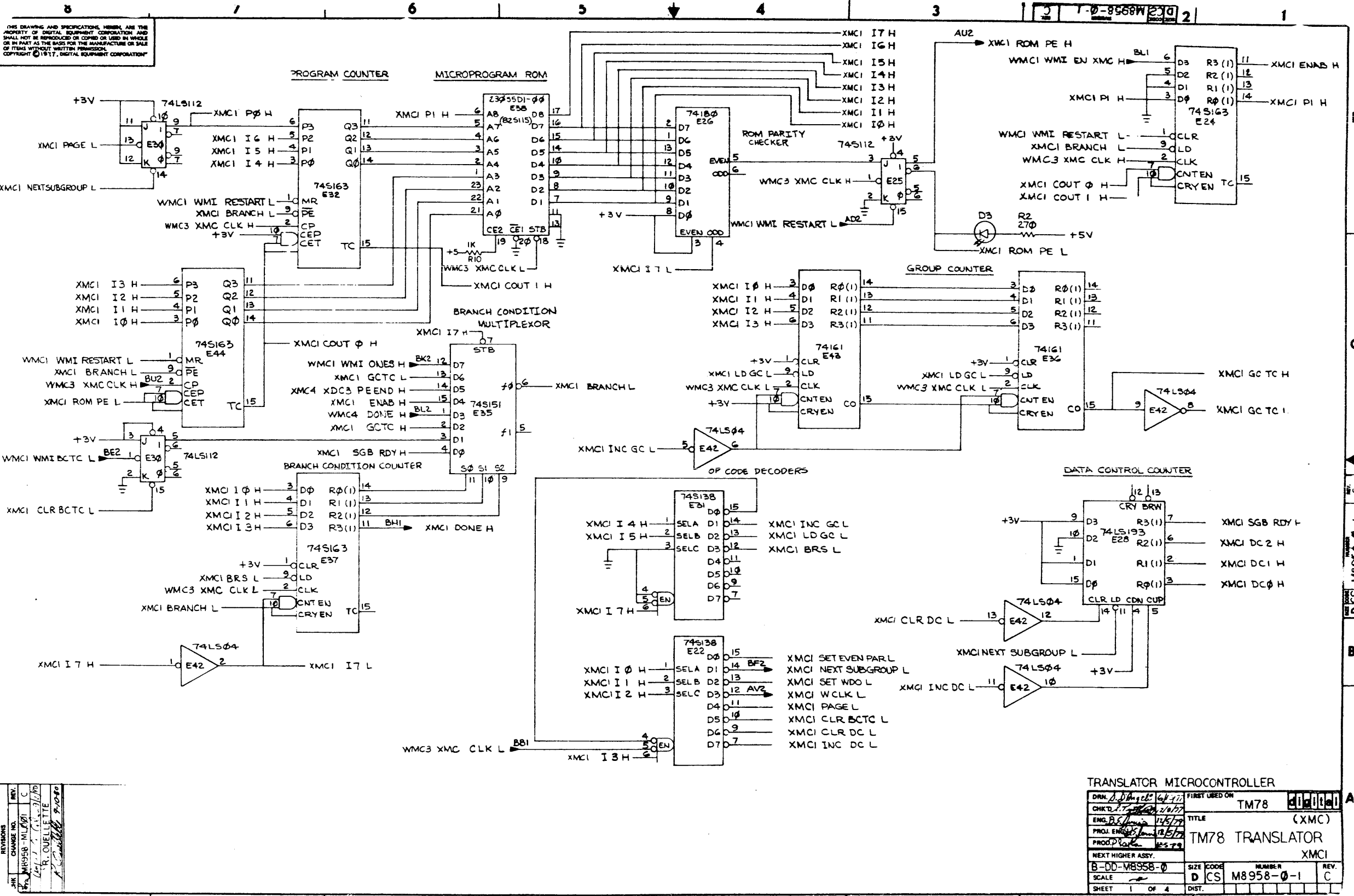
AUTOMATED BY PRTLST.2E(3)

PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1912847-00	LS157 MUX 1 OF 2(QUAD)	5	E8, E14, E15, E29, E34
32	32		1912858-00	LS221 ONE SHOT-DUAL, SCHMIT	2	E54, E59
33	33		1912862-00	LS266 X-NOR GATE-QUAD, OPN,	1	E56
34	34	SPARE IC		*** THIS ITEM IS NOT USED ***	-	
35	35		1913293-00	74156 DECODER 2-4 (DUAL)&D	1	E45
36	36		1914214-00	LS374 FF-D OCTAL EDGE TRIG	3	E9, E13, E23
37	37		1913777-00	LS240 DRIVER, LINE, OCTAL, T	7	E5, E10, E18, E24, E28, E37, E47
38	38		1914213-00	81LS97 BUFFER GATE-OCTAL 2I	1	E33
39	39		23273A1-00	A1-03, A1-04, A1-05	1	E52
40	40		9006732-00	EYELET, ROLLED 0.1210DX0.219	8	
41	41		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
42	42	D-UA-M8957-0-0		UNIT ASSEMBLY	REF	
43	43	D-CS-M8957-0-1		CIRCUIT SCHEMATIC	REF	
44	44	D-MD-5013040-0-0		DRILL & ETCH DRAWING	REF	
45	45	D-EC-5013040-0-0		ETCH CUT DRAWING	REF	
46	46		9105740-55	*** THIS ITEM IS NOT USED ***	-	
47	47		23952A9-00	A9-01	1	E57
48	48		1910396-01	7489N RAM 16X4	4	E19, E20, E25, E39

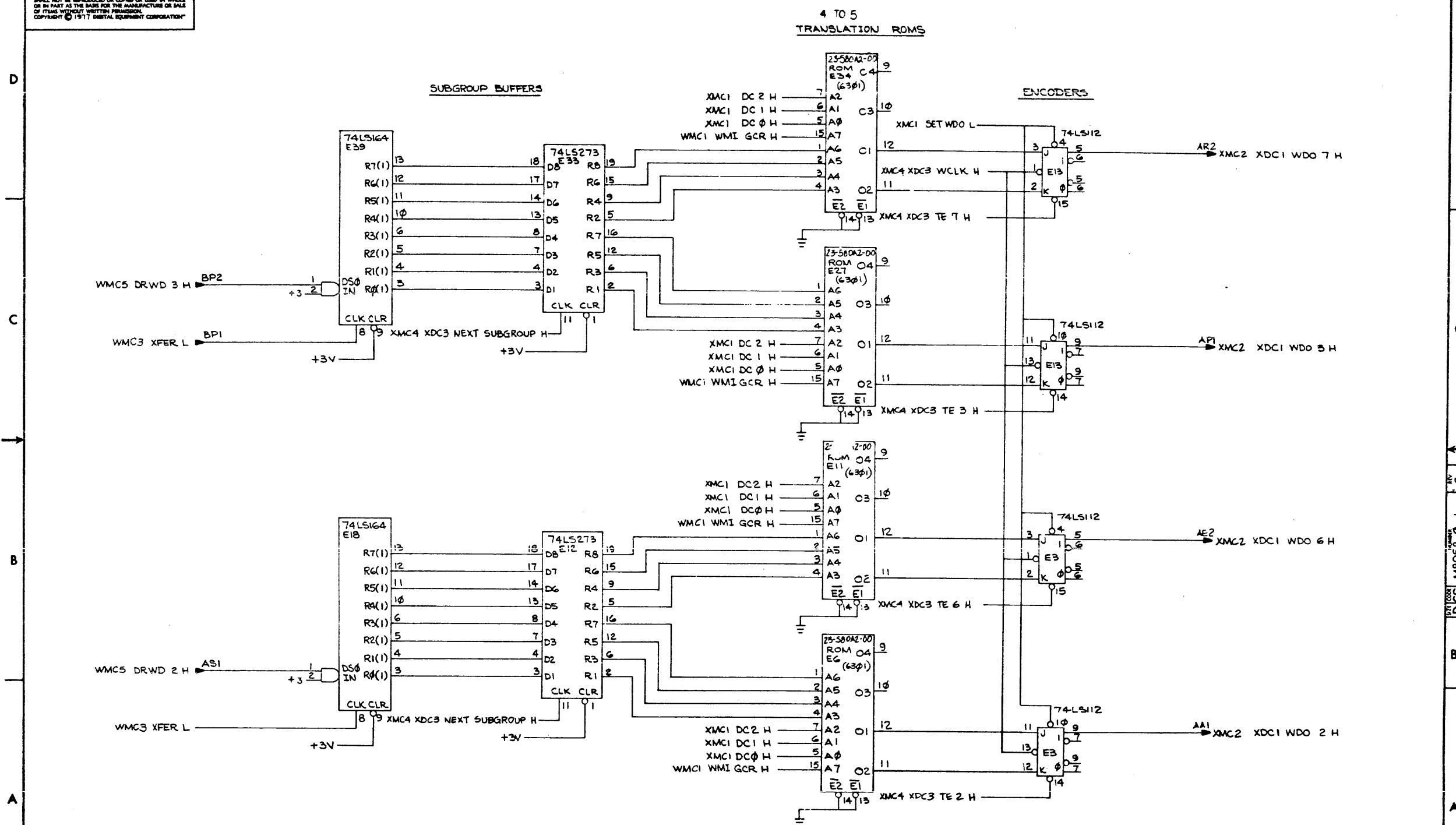
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✓	CHK	HH	43				MASSBUS CONTROL		K	PL	M8957-0-DBP	E



REV.	CHANGE NO.	DATE	BY
1	1	11/1/77	R. QUELETTE
2	1	11/1/77	R. QUELETTE

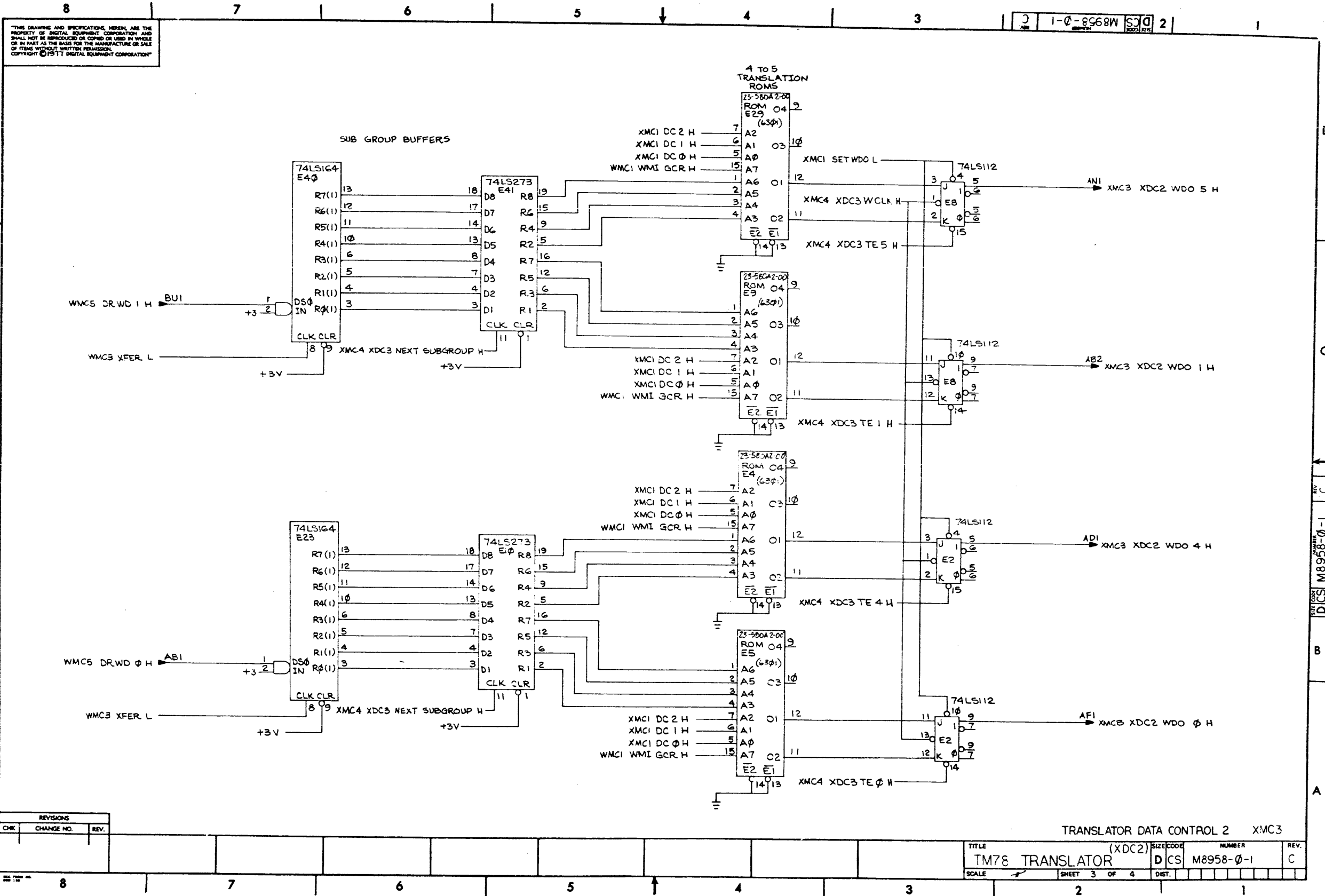
TRANSLATOR MICROCONTROLLER			
DRN. J. D. [Signature]	FIRST USED ON	TM78	
CHKD. [Signature]	TITLE	(XMC)	
ENGR. [Signature]	TITLE	TM78 TRANSLATOR	
PROJ. ENG. [Signature]		XMC1	
PROD. [Signature]			
NEXT HIGHER ASSY.			
B-DD-M8958-0	SIZE CODE	NUMBER	REV.
	D CS	M8958-0-1	C
SHEET 1 OF 4	DIST.		

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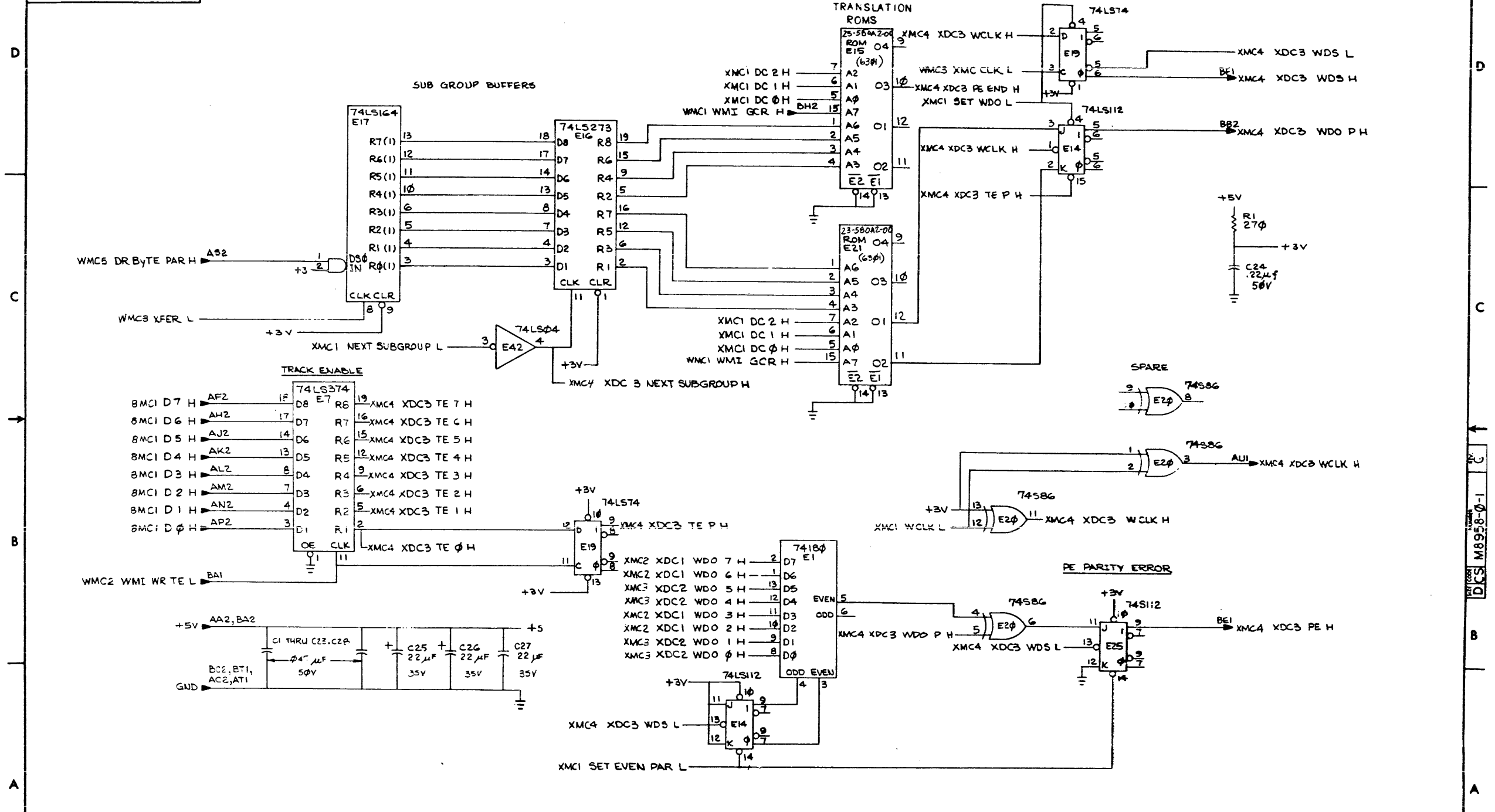


REVISIONS		
CHK	CHANGE NO.	REV.

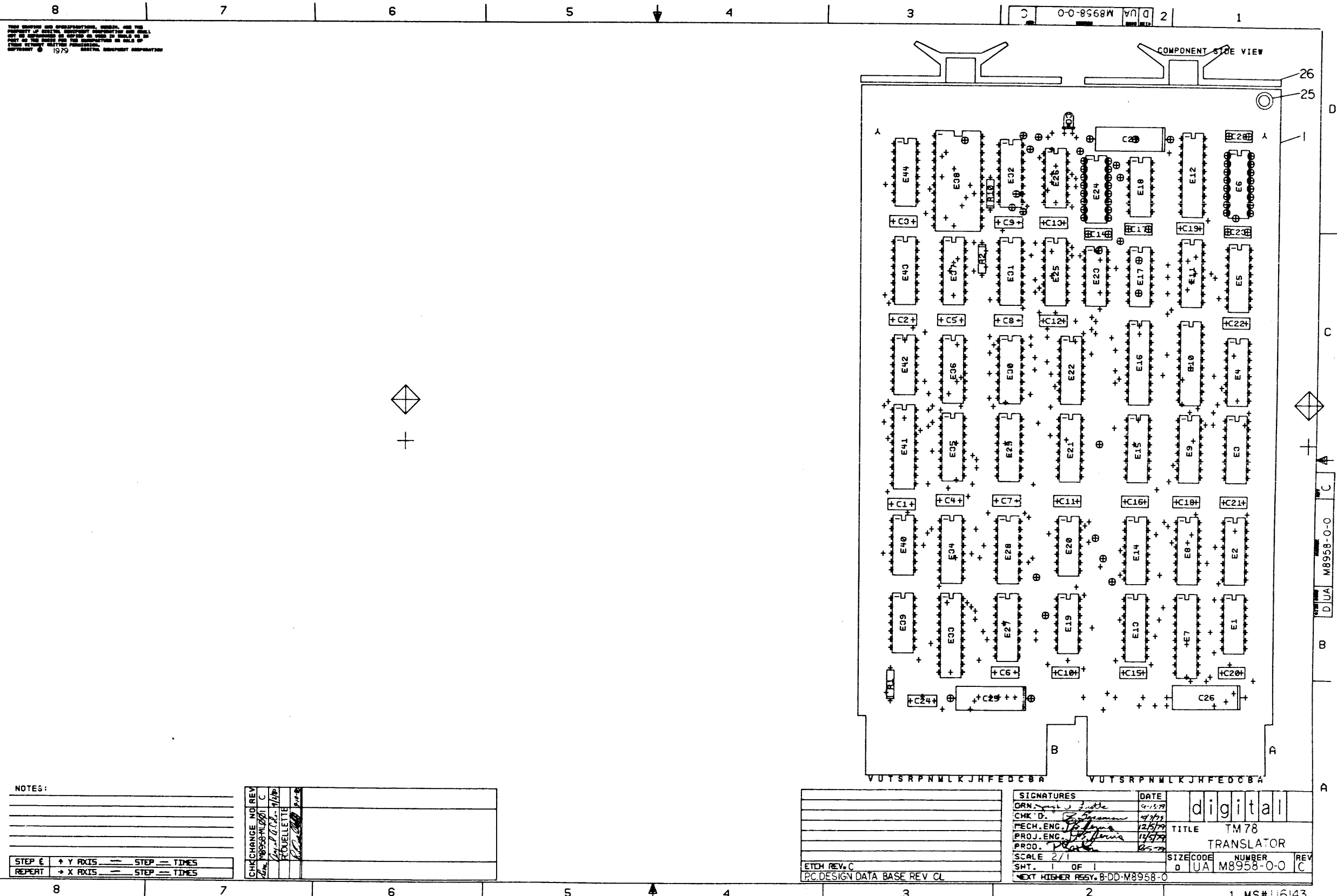
TITLE		XMC2	
TM78 TRANSLATOR	(XDC1)	SIZE CODE	NUMBER
SCALE	SHEET 2 OF 4	DIST.	REV. C



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REVISIONS		
CHK	CHANGE NO.	REV.



NOTES:

STEP E → Y AXIS — STEP — TIMES

REPEAT → X AXIS — STEP — TIMES

CHANGE NO	REV	DATE	BY	CHKD
1	C	9-15-79	ROULETT	

ETCH REV. C
PC DESIGN DATA BASE REV CL

SIGNATURES		DATE	digital
DRN. <i>[Signature]</i>		9-15-79	
CHK'D. <i>[Signature]</i>		12/5/79	TITLE TM78
TECH. ENG. <i>[Signature]</i>		12/5/79	TRANSLATOR
PROJ. ENG. <i>[Signature]</i>		12/5/79	SIZE CODE 0 U A
PROD. <i>[Signature]</i>		12/5/79	NUMBER M8958-0-0
SCALE 2/1			REV C
SMT. / OF			
NEXT HIGHER ASSY. B-DD-M8958-0			

1 MS#116143

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1979

0-0 M8958-0-0 2 1

D JUA M8958-0-0

PARTS LIST

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	1	5013002-00	M8958	1	
2	2	1012784-00	.047 MFD 50V +80-20% CER	24	C1-C23,C28
3	3	1002433-00	22 MFD 35V 20% S.TANT	3	C25,C26,C27
4	4	1010274-01	.22 MFD 50V +80-20% Z5U CER	1	C24
5	5	1110324-00	LED 1MCDQ10MA PIV=3	1	D3
6	6	1300426-00	*** THIS ITEM IS NOT USED ***	-	
7	7	1301972-00	270.0 .25 W 5.0 % CC	2	R2,R1
8	8	1910545-00	74S112 FF-JK DUAL,EDGE TRIG	1	E25
9	9	1910650-00	74161 COUNTER,SYNCHR. UP	2	E36,E43
10	10	1910724-00	74180 PARITY TREE,8BIT GEN	2	E1,E26
11	11	1910956-00	74S151 MUX 1 OF 8	1	E35
12	12	1911675-00	74S138 DECODER/DEMUX 3-8 LIN	2	E31,E22
13	13	1912803-00	LS04 INVERTER GATE-HEX 11	1	E42
14	14	1912824-00	LS74 FF-D DUAL,EDGE TRIG	1	E19
15	15	1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	1	E20
16	16	1912834-00	LS112 FF-JK DUAL,EDGE TRIG	6	E2,E3,E8,E13,E14,E30
17	17	1912842-00	*** THIS ITEM IS NOT USED ***	-	
18	18	1912850-00	LS164 SHIFT REG. 8BIT SERI	5	E17,E18,E23,E39,E40
19	19	1912854-00	LS193 COUNTER,SYNCHR,4BIT,	1	E28
20	20	1912863-00	LS273 FF-D OCTAL W/CLEAR	5	E10,E12,E16,E33,E41
21	21	1914082-00	74S163 COUNTER,SYNCH UP/DOW	4	E32,E44,E24,E37
22	22	1914214-00	LS374 FF-D OCTAL EDGE TRIG	1	E7
23	23	23580A2-00	A2-05	10	E4-E6,E9,E11,E15,E21,E27,E29,E34
24	24	23055D1-00	D1-02	1	E38
25	25	9006732-00	EYELET, ROLLED FLANGE, .121 OD X	4	
26	26	9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
27	27	1300365-00	1 0 K .25 W 5.0 % CC	1	R10
28	28	D-UA-M8958-0-0	UNIT ASSY	REF	
29	29	D-CS-M8958-0-1	CIRCUIT SCHEMATIC	REF	
30	30	D-MD-5013002-0-0	DRILL & ETCH DWG	REF	

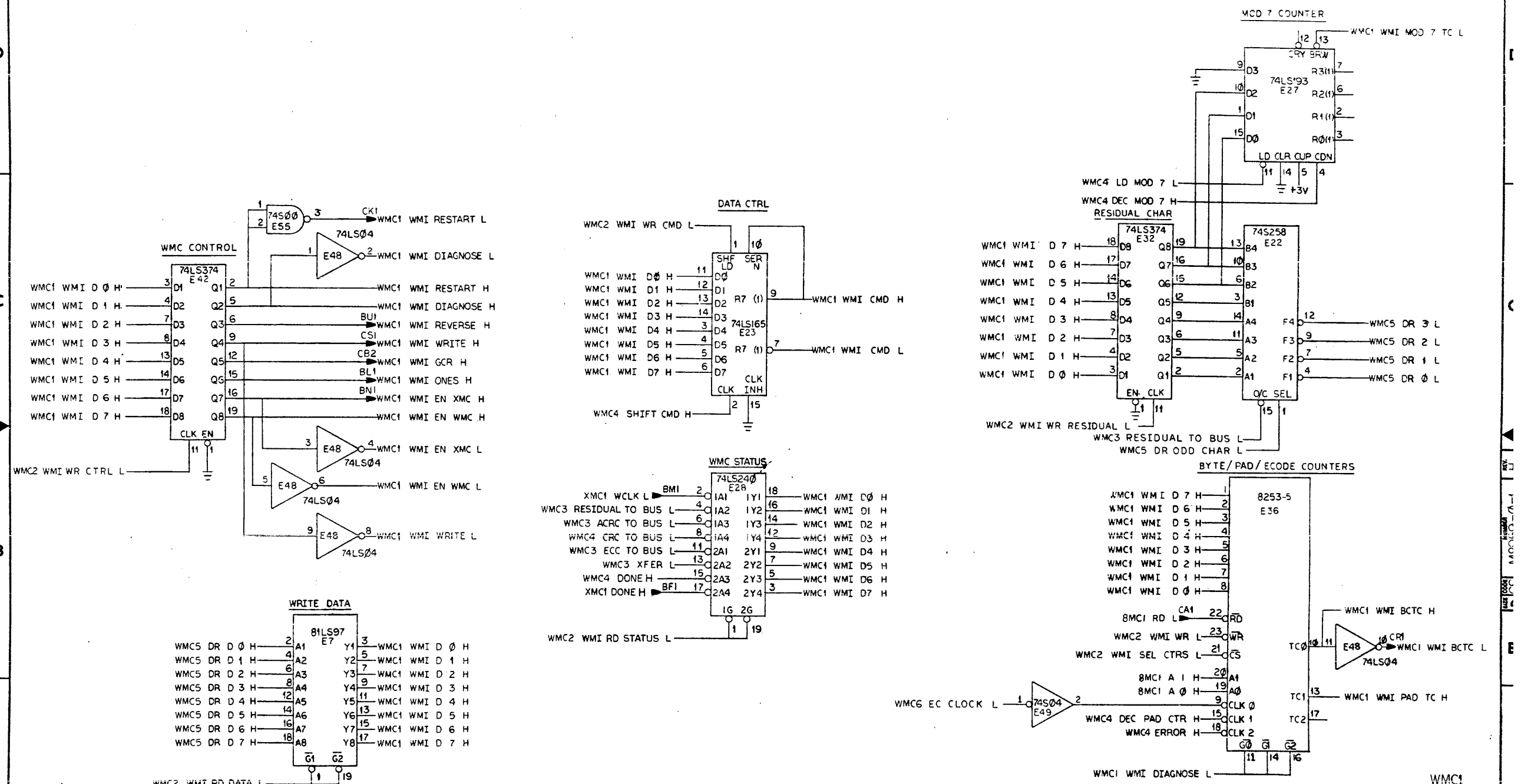
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ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	P. BOSSMAN	DATE:	07-SEP-79	TITLE PARTS LIST			
---	INIT	B	SECTION VARIATION INDEX	DES.ENG:	D. JERVIS <td>DATE:</td> <td>10-SEP-79 <td colspan="4">DOCUMENT NUMBER</td> </td>	DATE:	10-SEP-79 <td colspan="4">DOCUMENT NUMBER</td>	DOCUMENT NUMBER			
RO	M8958-ML001	C	[A] 00	RESP.ENG.:	R. RICHMOND <td>DATE:</td> <td>28-AUG-78 <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td> </td>	DATE:	28-AUG-78 <td>SIZE</td> <td>CODE</td> <td>NUMBER</td> <td>REV</td>	SIZE	CODE	NUMBER	REV
			[B]	MFG.ENG.:	P. BARTON <td>DATE:</td> <td>10-SEP-79</td> <td>K</td> <td>PL</td> <td>M8958-0-DBP</td> <td>C</td>	DATE:	10-SEP-79	K	PL	M8958-0-DBP	C
			[C]	ASSEMBLY NUMBER:	<td>TOP DOCUMENT NUMBER:</td> <td> <td colspan="2">FILE NAME:</td> <td>EDIT #</td> <td></td> </td>	TOP DOCUMENT NUMBER:	<td colspan="2">FILE NAME:</td> <td>EDIT #</td> <td></td>	FILE NAME:		EDIT #	
			[D]	D-UA-M8958-0-0		#B-DD-M8958-0		Z0903C.PLS		10	
			[E]	*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.							
			[F]	COPYRIGHT (C) 1980, DIGITAL EQUIPMENT CORPORATION *							

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
31	31	D-EC-5013002-0-0	ETCH CUT DWG	00	REF

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TM78 TRANSLATOR		K	PL	M8958-0-DBP	C

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D
C
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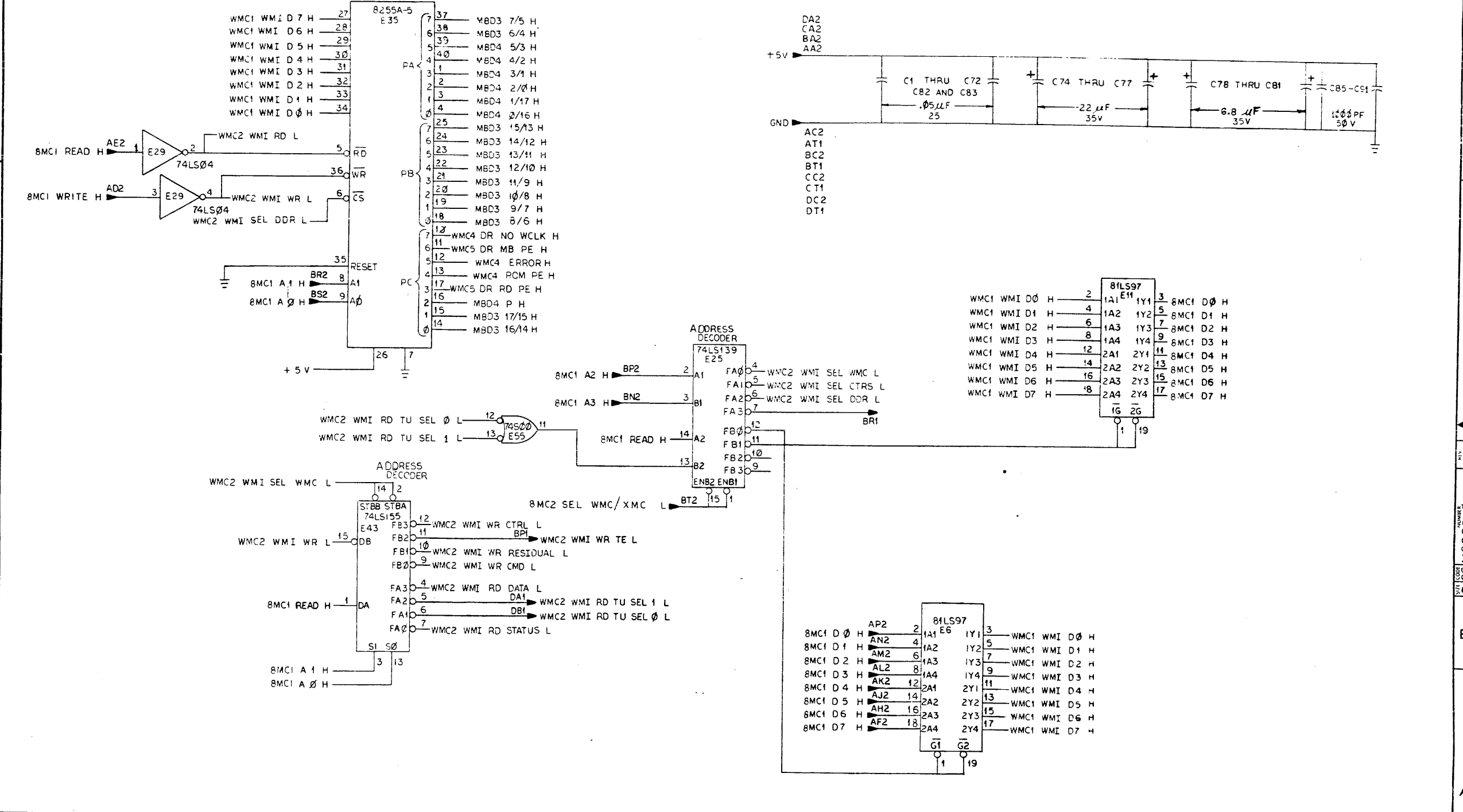


REV.	CHG	NO.	BY	DATE
1				
2				
3				
4				
5				
6				
7				
8				

DRN/REV. 1/1	DATE 12/10/77	FIRST USED ON	TM78
CHK'D 1/1	DATE 1/1/78	TITLE	WRITE (WMI 1)
ENG. 1/1	DATE 1/1/78	PROJECT	8085 INTERFACE I
PROD. 1/1	DATE 1/1/78	SIZE CODE	D CS
NEXT HIGHER ASSY.		NUMBER	M8959-0-1
B-DD-M8959-0		REV.	H
SCALE 1		SHEET	1 OF 6
		DIST.	SHO

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DIAG DATA REG, ERROR STATUS



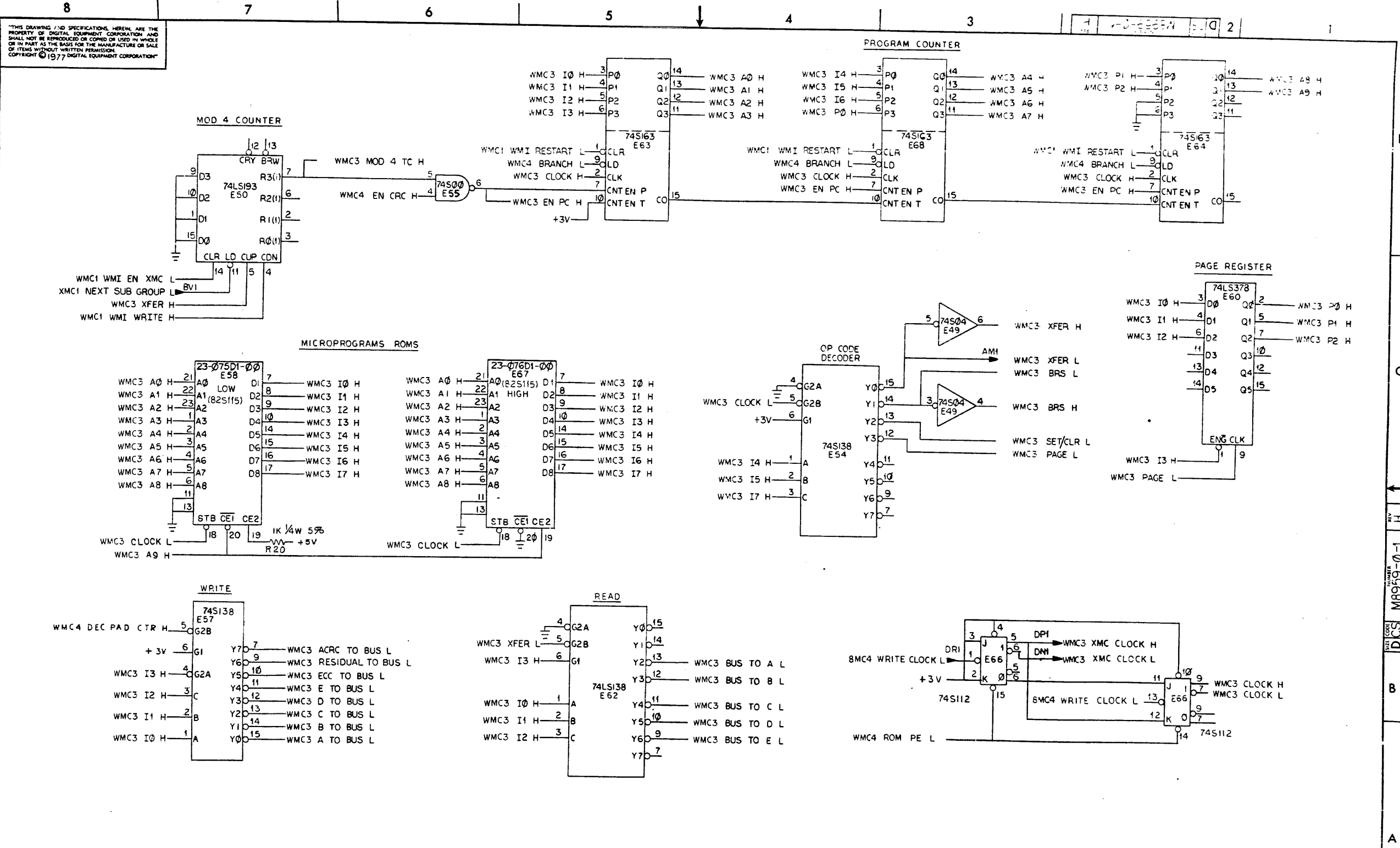
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CHK	CHANGE NO.	REV

8085 INTERFACE 2 WMC2

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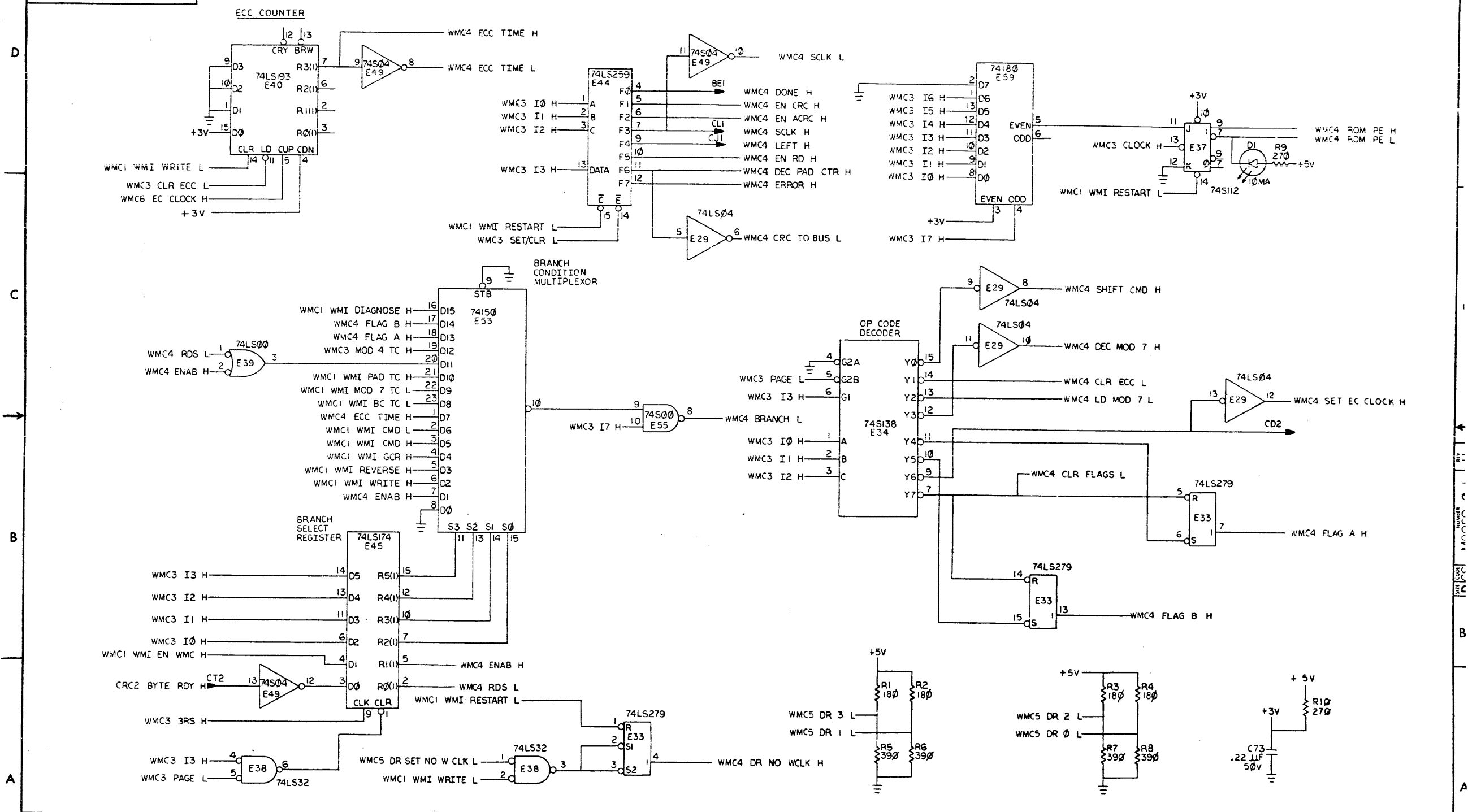
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SCALE SHEET 2 OF 6 DIST. SHO



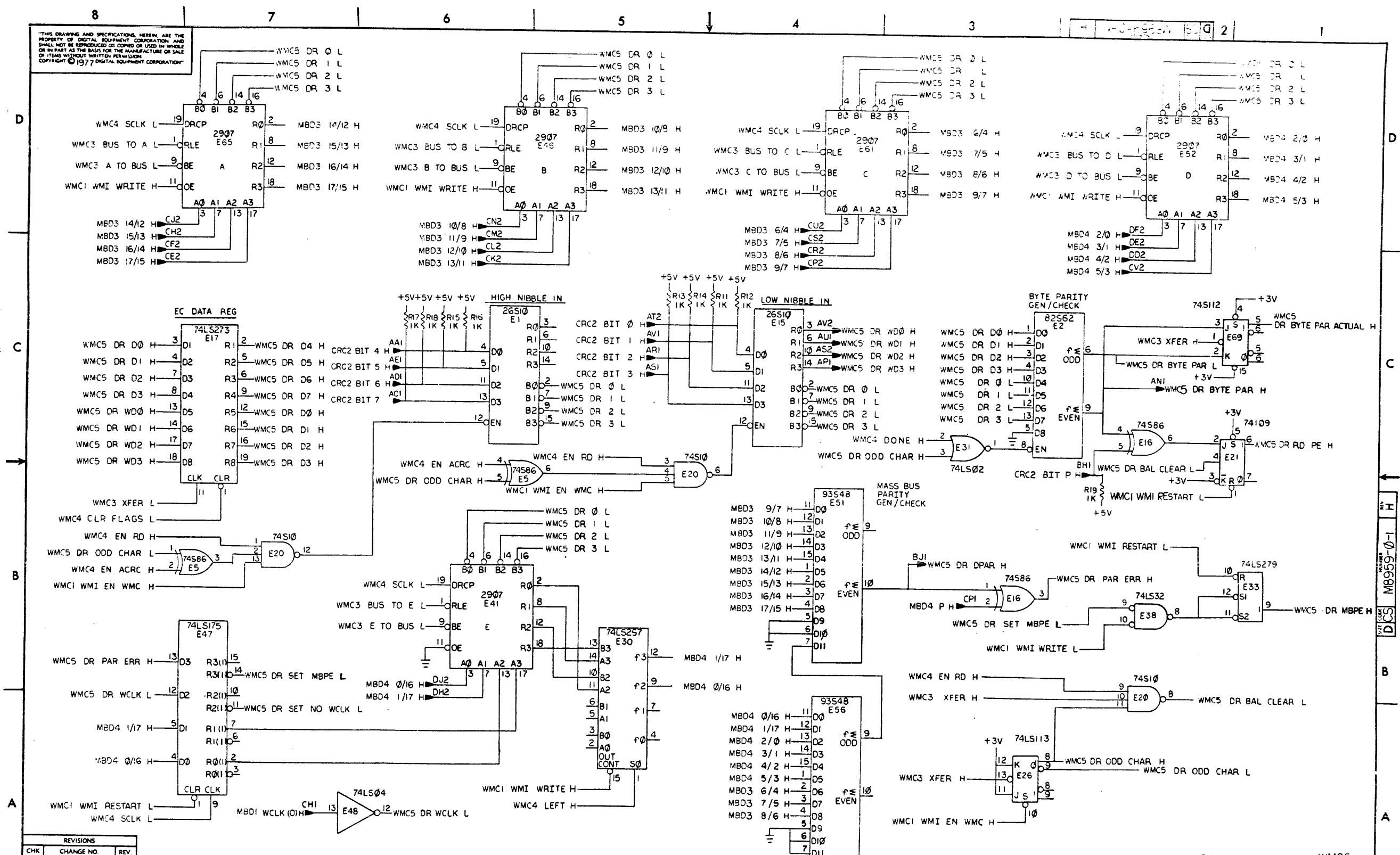
REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO	REV.

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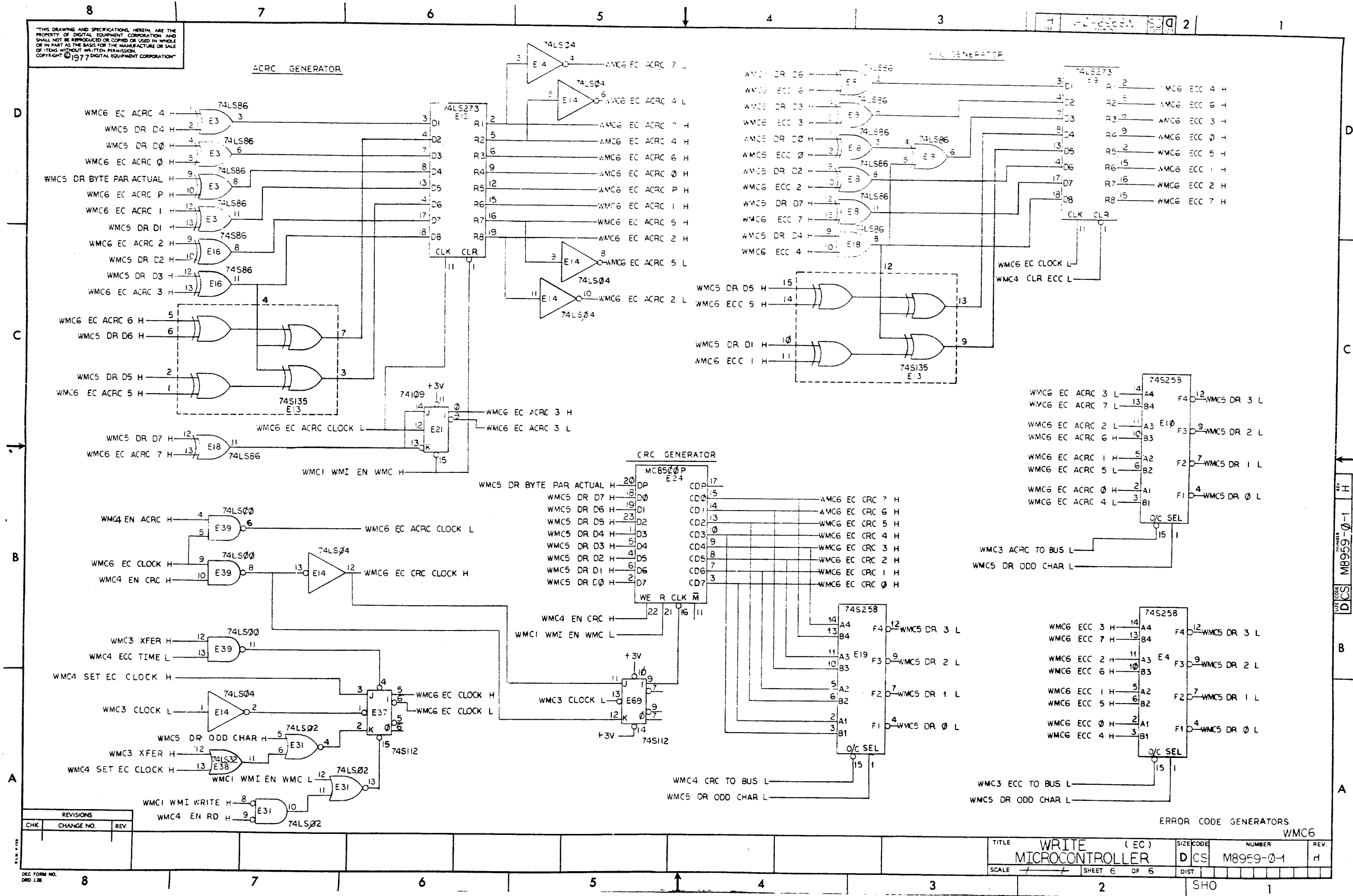
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WRITE (DR) MICROCONTROLLER		D	CS	M8959-0-1	H
SCALE	SHEET	DIST.			
	5 OF 6				

DEC FORM NO. DFD 138

DATA REGISTER WMC5

SHO

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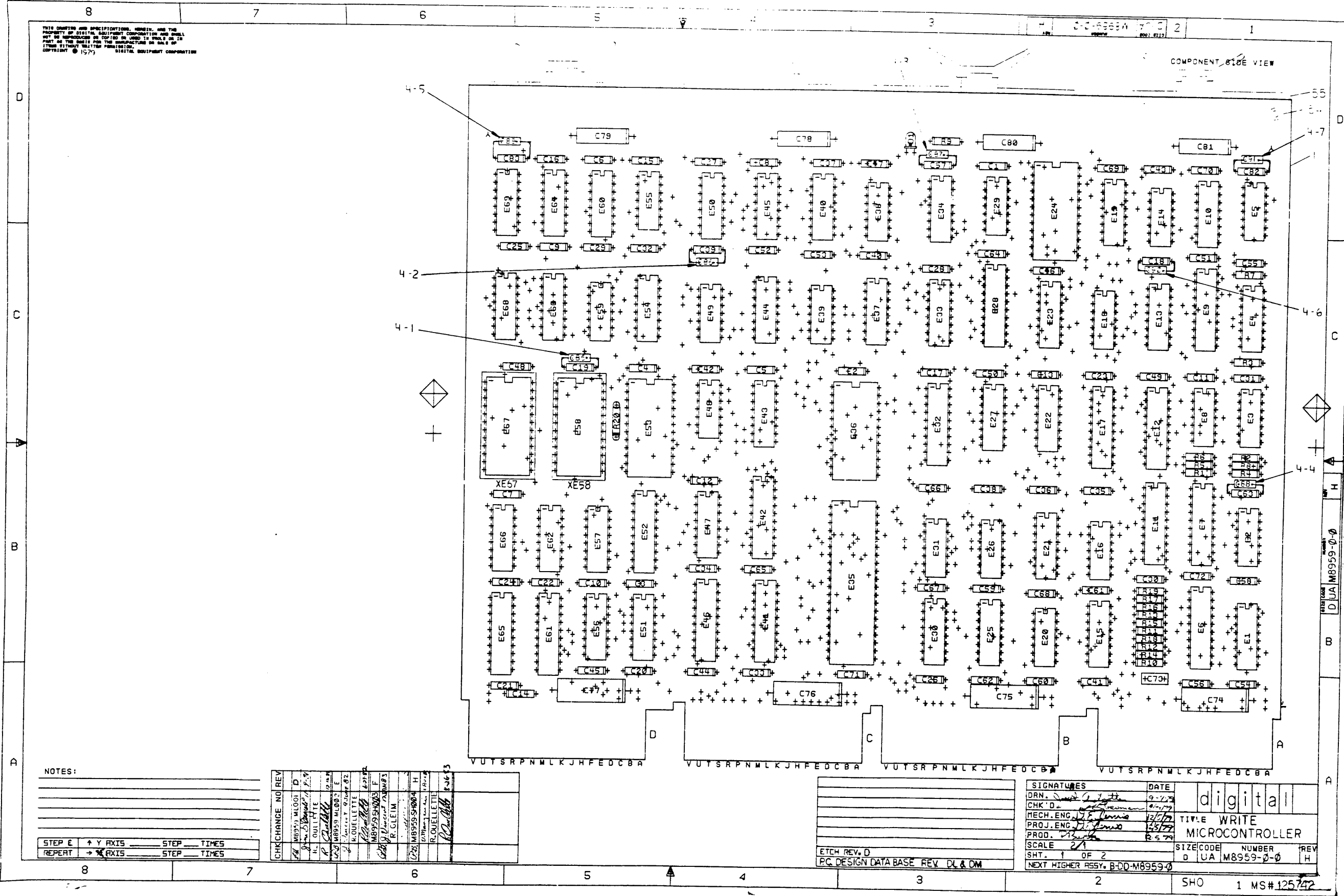
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SCALE: / /						SHEET 6 OF 6		DIST.:
DEC FORM NO. DMD 138						SHO		1

DRAWING NUMBER: M8959-0-1
 SHEET: 6 OF 6
 DIST. CODE: DCS

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3-0-8868A 700 2

COMPONENT SIDE VIEW



NOTES:

STEP E	↑ Y AXIS	STEP	TIMES
REPORT	→ X AXIS	STEP	TIMES

CHK	CHANGE	NO	REV	BY	DATE
1				M8959 ML001 D	
2				M8959 ML002 E	
3				M8959 ML003 F	
4				M8959 ML004 G	
5				M8959 ML005 H	

ETCH REV. D
PC DESIGN DATA BASE REV. DL & DM

SIGNATURES		DATE	digital
DRN.	<i>[Signature]</i>	9-1-79	
CHK'D	<i>[Signature]</i>	9-1-79	
RECH. ENG.	<i>[Signature]</i>	12-1-79	
PROJ. ENG.	<i>[Signature]</i>	12-1-79	
SCALE 2:1			SIZE CODE NUMBER REV
SHT. 1 OF 2			D UA M8959-0-0 H
NEXT HIGHER ASSY. B-DD-M8959-0			

SHO 1 MS#125742

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H 0-0-0568W 700 275

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REWORK INSTRUCTIONS:

ECO #4, SIDE 1:

COMPONENT ADDS:

- 4-1. ADD CAP. C85 P/N 1011740-05 IN PARALLEL TO CAP. C19.
- 4-2. ADD CAP. C86 P/N 1011740-05 IN PARALLEL TO CAP. C39.
- 4-3. ADD CAP. C87 P/N 1011740-05 IN PARALLEL TO CAP. C57.
- 4-4. ADD CAP. C88 P/N 1011740-05 IN PARALLEL TO CAP. C63.
- 4-5. ADD CAP. C89 P/N 1011740-05 IN PARALLEL TO CAP. C83.
- 4-6. ADD CAP. C90 P/N 1011740-05 IN PARALLEL TO CAP. C18.
- 4-7. ADD CAP. C91 P/N 1011740-05 IN PARALLEL TO CAP. C82.

D

D

C

C

B

B

A

A

DATE CODE DUA M8959-0-0

REVISION HISTORY		
REV	ECO NUMBER	DATE

TITLE
WRITE
MICROCONTROLLER

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV
DUA	M8959-0-0	H
SCALE 2/1	SHEET 2 OF 2	

ORD 137C
EN-01284-18-REV A000

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SHO 1

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
1	1	5013186-00	M8959	1		
2	2	SPARE LOCATION	*** THIS ITEM IS NOT USED ***	-		
3	3	1911291-00	82S62 PARITY TREE,9BIT GEN	1		E2
4	4	1914866-00	AM 93S48PCGEN/CHECK PARITY, 4B	2		E51,E56
5	5	1913839-00	LS165 SHIFT REG.,8BIT	1		E23
6	6	1916079-00	8253-5TIMER,PROGRAMMABLE I	1		E36
7	7	1914867-00	FF-D HEX, COMMON REG	1		E60
8	8	1012784-00	.047 MFD 50V +80-20% CER	74		C1-C72,C82,C83
9	9	1002433-00	22 MFD 35V 20% S.TANT	4		C74-C77
10	10	1005306-00	6.8MFD 35V 10% S.TANT	4		C78-C81
11	11	1010274-01	.22 MFD 50V +80-20% Z5U CER	1		C73
12	12	1110324-00	LED 1MCD@10MA PIV=3	1		D1
13	13	1213113-01	*** THIS ITEM IS NOT USED ***	-		
14	14	1300309-00	390.0 .25 W 5.0 % CC	4		R5-R8
15	15	1300365-00	1.0 K .25 W 5.0 % CC	10		R11-R20
16	16	1313469-00	240.0 .25 W 5.0 % CC	4		R1-R4
17	17	1301972-00	270.0 .25 W 5.0 % CC	2		R9,R10
18	18	1910153-00	DEC 74150 MUX 1 OF 16	1		E53
19	19	1910532-00	74S00 NAND GATE-QUAD 2IN	1		E55
20	20	1910534-00	74S04 INVERTER GATE-HEX 1I	1		E49
21	21	1910545-00	74S112 FF-JK DUAL,EDGE TRIG	3		E37,E66,E69
22	22	1910724-00	74180 PARITY TREE,8BIT GEN	1		E59
23	23	1911675-00	74S138 DECODER/DEMUX 3-8 LIN	3		E57,E54,E34
24	24	1912125-00	74S135 XOR/NOR GATE-QUAD 2I	1		E13
25	25	1912647-00	LS257 MUX 1 OF 2 (QUAD)	1		E30
26	26	1912697-00	LS174 FF-D HEX W/CLEAR	1		E45
27	27	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1		E39
28	28	1912801-00	LS02 NOR-GATE-QUAD 2IN	1		E31
29	29	1912803-00	LS04 INVERTER GATE,HEX	3		E48,E29,E14
30	30	1910536-00	74S10 NAND GATE-TRIPLE 3IN	1		E20

REVISION HISTORY		BASIC PART NO: M8959		DRN:	E. DANCAUSE	DATE: 28-AUG-78	D I G I T A L			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	S. TUTTLE	DATE: 28-AUG-78	TITLE PARTS LIST			
---	INIT	C	SECTION VARIATION INDEX	CHK'D:	S. TUTTLE	DATE: 28-AUG-78	TITLE PARTS LIST			
R.O	M8959-ML001	D	[A] 00				WRITE MICROCONTROLLER			
RO	M8959-ML002	E	[B]							
			[C]	DES.ENG:	DAVE JERVIS	DATE: 22-JUN-79				
			[D]							
			[E]							
			[F]	RESP.ENG.:	DAVE JERVIS	DATE: 22-JUN-79	DOCUMENT NUMBER			
			[G]							
			[H]							
			[J]							
			[K]	MFG.ENG.:	PETER BARTON	DATE: 22-JUN-79	K	PL	M8959-0-DBP	E
			[L]							
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #		
			[N]	D-UA-M8959-0-0		#B-DD-M8959-0	Z0939E.PLS	18		

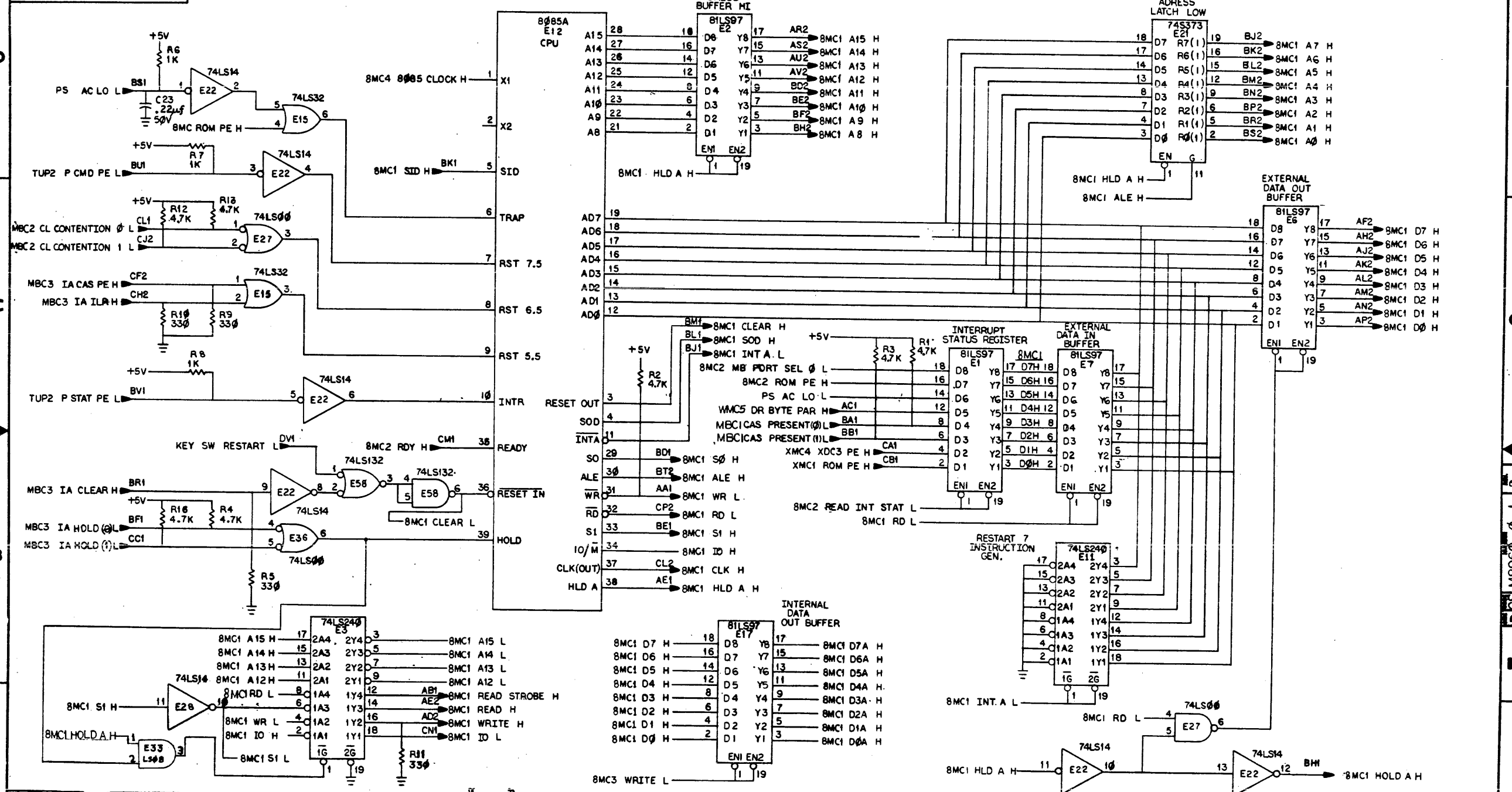
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ML2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1912816-00	LS32 OR GATE-QUAD 2IN,POS	1	E38
32	32		1912829-00	LS86 X-OR GATE-QUAD 2IN	4	E16,E3,E8,E18
33	33		1912833-00	LS109 FF-JK DUAL,POS EDGE	1	E21
34	34		1912834-00	*** THIS ITEM IS NOT USED ***	-	
35	35		1912835-00	LS113 FF-JK DUAL,EDGE TRIG	1	E26
36	36		1912842-00	LS138 DECODER-THREE INPUT,	1	E62
37	37		1912843-00	LS139 DECODER, 2 OF 4(DUAL	1	E25
38	38		1912853-00	LS175 FF-D QUAD	1	E47
39	39		1912854-00	LS193 COUNTER,SYNCHR,4BIT,	3	E27,E50,E40
40	40		1912859-00	LS258 MUX 1 OF 2 (DUAL),	4	E22,E19,E10,E4
41	41		1912860-00	LS259 LATCH 8BIT	1	E44
42	42		1912863-00	LS273 FF-D OCTAL W/CLEAR	3	E17,E12,E9
43	43		1912864-00	LS279 LATCH,QUAD-S-R	1	E33
44	44		1914082-00	74S163 COUNTER,SYNCH UP/DOW	3	E63,E64,E68
45	45		1913750-00	MC 8500 GEN,CYCLIC REDUNDANC	1	E24
46	46		1913777-00	LS240 DRIVER,LINE,OCTAL,T	1	E28
47	47		1913788-00	26S10 TRANSCEIVER,BUS,QUA	2	E1,E15
48	48		1912846-00	LS155 DECODER,2 OF 4(DUAL)	1	E43
49	49		1914213-00	81LS97 BUFFER GATE-OCTAL 2I	3	E7,E6,E11
50	50		1914214-00	LS374 FF-D OCTAL EDGE TRIG	2	E42,E32
51	51		1914414-00	2907 TRANSCEIVER,BUS,QUA	5	E65,E41,E46,E52,E61
52	52		2113894-01	8255A PROGRAMMABLE INTERFACE	1	E35
53	53		23000D1-02	*** THIS ITEM IS NOT USED ***	-	
54	54		9006732-00	EYELET,ROLLED 0.1210DX0.219	8	
55	55		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
56	56		23075D1-00	D1-02	1	E58
57	57		23076D1-00	D1-02	1	E67
58	58	D-UA-M8959-0-0		UNIT ASSY	REF	
59	59	D-CS-M8959-0-1		CIRCUIT SCHEMATIC	REF	
60	60	D-MD-5013186-0-0		DRILL & ETCH DWG	REF	
61	61	D-EC-5013186-0-0		ETCH CUT DWG	REF	
62	62		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	1	E5
63	63		1215006-06	SKT,IC 24PIN DIP TIN SOLD	2	XE58,XE67

! D ! I ! G ! I ! T ! A ! L !	! T I T L E !	! S I Z E !	! C O D E !	! D O C U M E N T N U M B E R !	! R E V !
! ! ! ! ! ! ! !	! W R I T E M I C R O C O N T R O L L E R !	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	! M 8 9 5 9 - 0 - D B P !	! E !
! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !	! ! ! ! ! ! ! !

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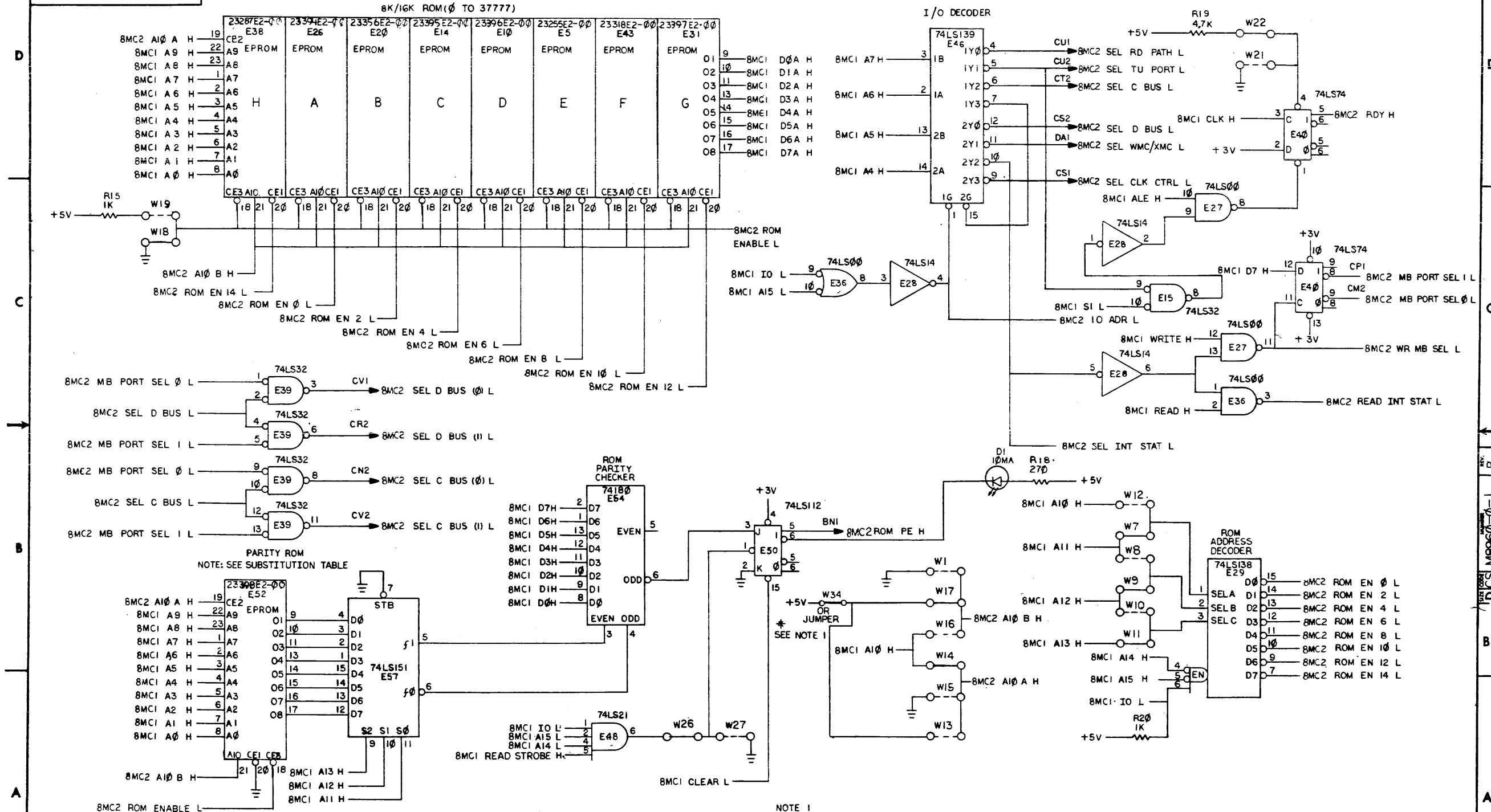


REV.	DATE	BY	CHK'D	DESCRIPTION
1	11/17/80	D. JERVIS	R. OUELLETTE	INITIAL DESIGN
2	12/10/80	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE
3	1/15/81	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE
4	2/10/81	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE
5	3/10/81	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE
6	4/10/81	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE
7	5/10/81	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE
8	6/10/81	D. JERVIS	R. OUELLETTE	REVISED FOR MANUFACTURE

DRN. 8085-018 DECT	FIRST USED ON	TM78
CHK'D 1/15/81	TITLE	8085 MICROCOMPUTER
ENG. 1/15/81	PROJECT	8085-018
PROJ. ENG. 1/15/81	PROD. 1/15/81	
NEXT HIGHER ASSY.	SIZE CODE	NUMBER
B-DD-M8960-0	SCALE NONE	D CS M8960-0-1
SHEET 1 OF 5	DIST.	

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NOTE: SEE SUBSTITUTION TABLE



REVISIONS		
CHK	CHANGE NO.	REV.

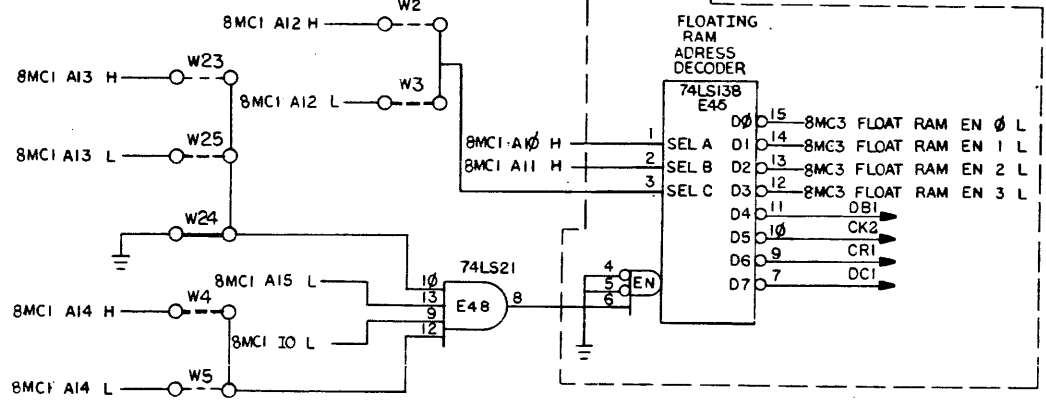
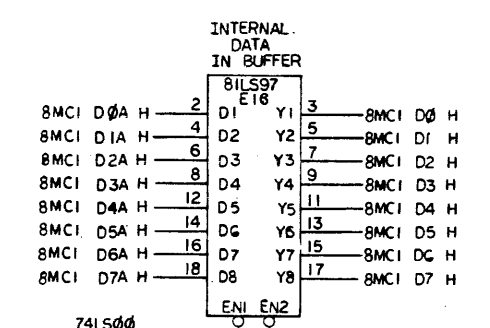
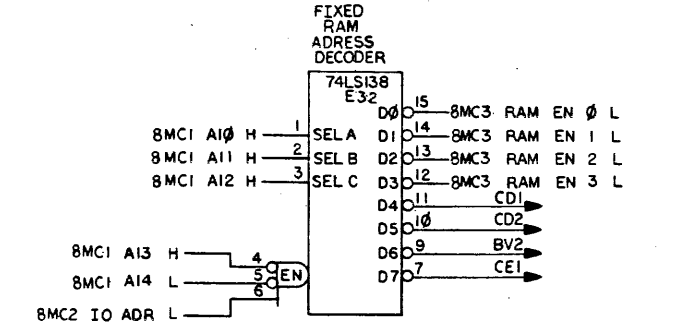
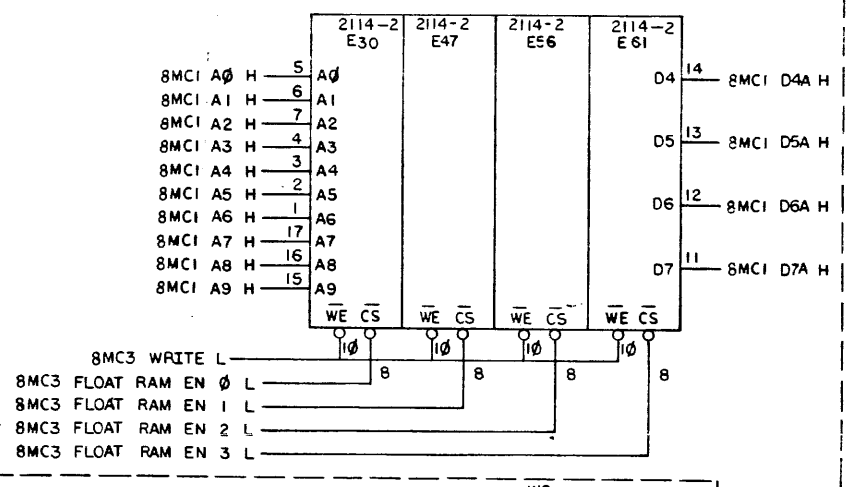
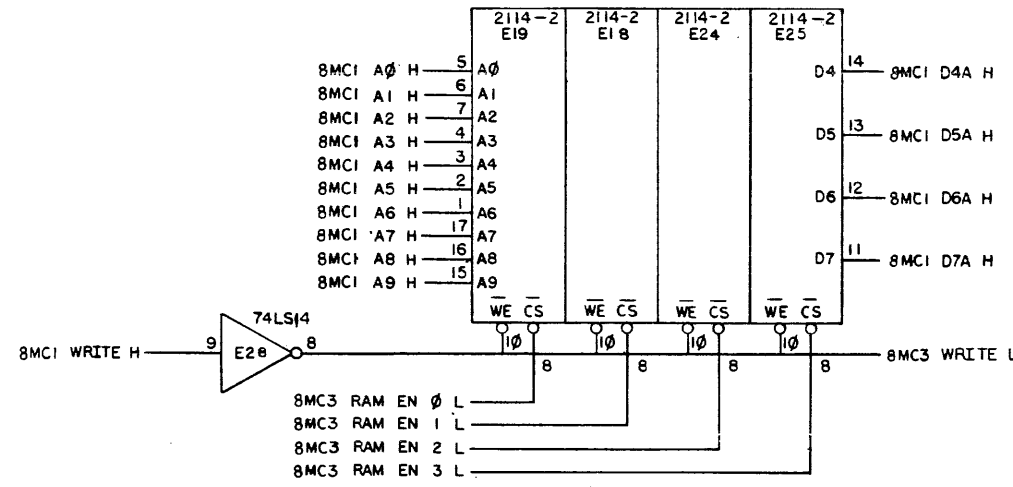
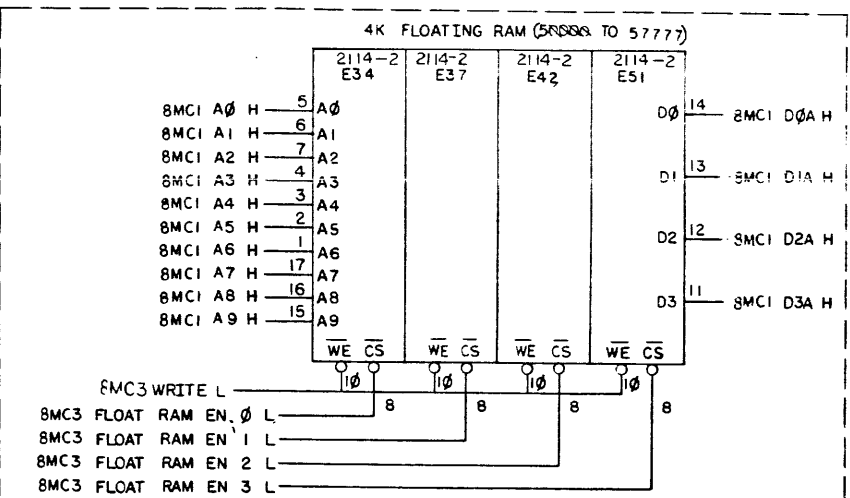
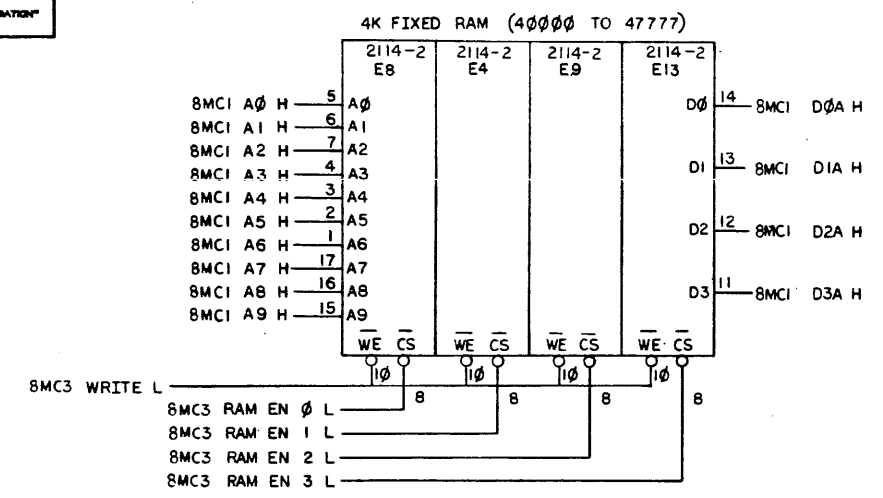
NOTE 1
* JUMPER FOR 2716 EPROM
RES FOR ALL OTHERS → (E5,10,14,20,26,31,38,43,52)

TITLE	8085 MICROCOMPUTER	SIZE CODE	DCS	NUMBER	M8960-0-1	REV.	B
SCALE	NONE	SHEET	2 OF 5	DIST.			

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1-0-0968W 2

NOTE:
PARTS ENCLOSED ARE NOT USED IN TM78.

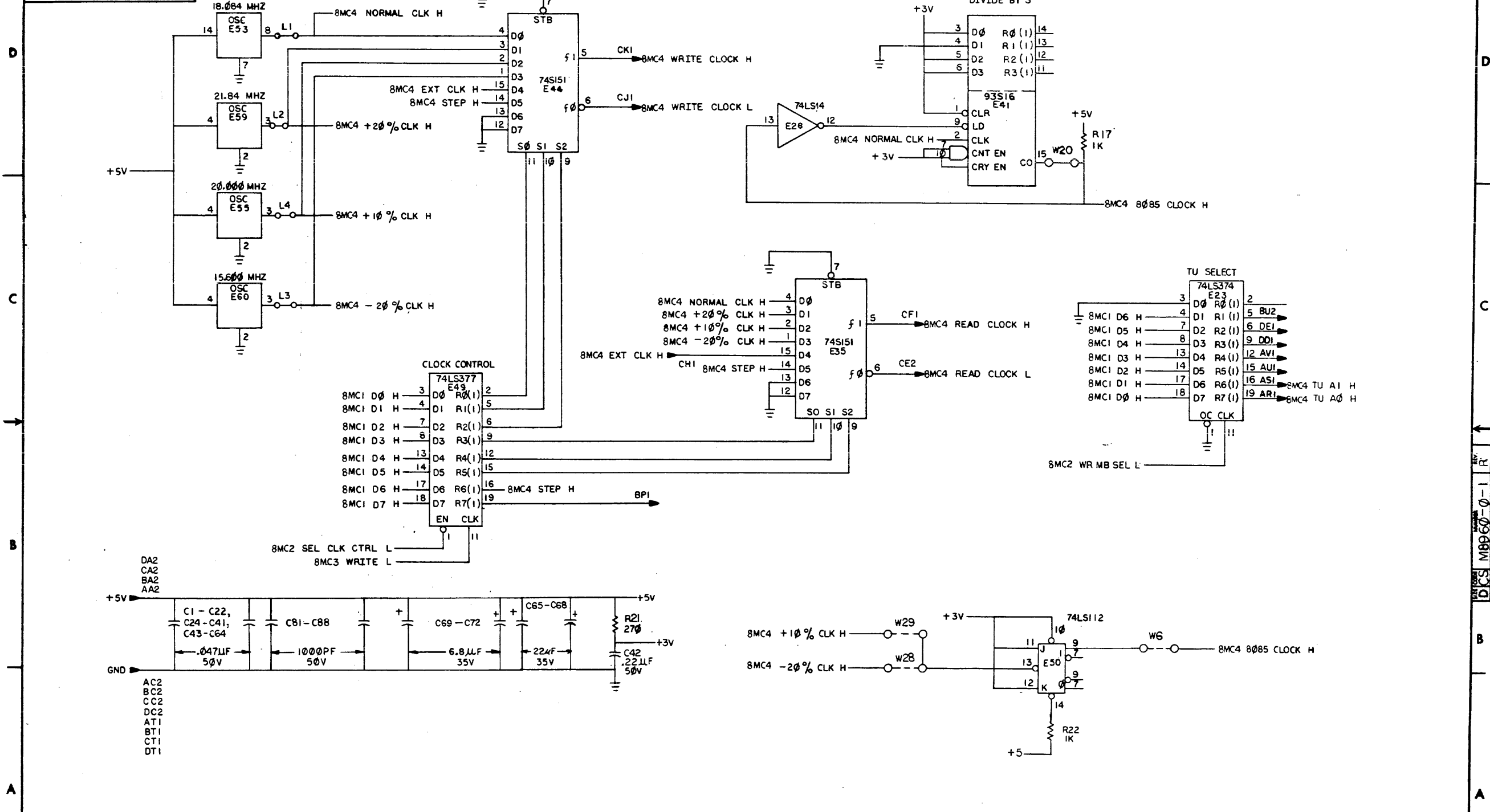


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
8085 MICROCOMPUTER		D	CS	M8960-0-1	R
SCALE	NONE	SHEET	3 OF 5	DIST.	

REV. M8960-0-1 R

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/COO	NUMBER	REV.
8085 MICROCOMPUTER		D CS	M8960-0-1	A
SCALE	SHEET	OF	DIST.	
NONE	4	5		

D CS M8960-0-1

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FLOATING RAM JUMPER CONFIGURATIONS

W4	W2	W5	W3	W23	W25	W24	LOCATIONS
OUT	IN	IN	OUT	OUT	IN	OUT	0 TO 7777
OUT	OUT	IN	IN	OUT	IN	OUT	10000 TO 17777
OUT	IN	IN	OUT	IN	OUT	OUT	20000 TO 27777
OUT	OUT	IN	IN	IN	OUT	OUT	30000 TO 37777
IN	IN	OUT	OUT	OUT	IN	OUT	40000 TO 47777
IN	OUT	OUT	IN	OUT	IN	OUT	50000 TO 57777
IN	IN	OUT	OUT	IN	OUT	OUT	60000 TO 67777
IN	OUT	OUT	IN	IN	OUT	OUT	70000 TO 77777
OUT	OUT	OUT	OUT	OUT	OUT	IN	DISABLE FLOATING RAM

ROM TYPE JUMPER CONFIGURATIONS

W15	W16	W17	W14	W18	W19	W13	W1	W12	W7	W8	W9	W10	W11	ROM TYPE
OUT	IN	OUT	OUT	OUT	IN	IN	OUT	OUT	IN	OUT	IN	OUT	IN	825191 2K PROM
OUT	OUT	IN	IN	IN	OUT	OUT	OUT	OUT	IN	OUT	IN	OUT	IN	2K ROM 2K EPROM 2316E 2716
OUT	OUT	OUT	OUT	OUT	IN	IN	IN	IN	OUT	IN	OUT	IN	OUT	1K PROM 1K PROM 82S2708 3628-4

ROM PARITY ENABLE JUMPER CONFIGURATIONS

TU PORT READ DELAY JUMPER CONFIGURATIONS

NOTE 2 *

W22	W21	DELAY TIME
IN	OUT	DELAY ONE CYCLE
OUT	IN	NO DELAY

NOTE 2 *

W26	W27	2K PARITY ROM
IN	OUT	ENABLED
OUT	IN	DISABLED

8085 CLOCK SELECT JUMPER CONFIGURATIONS

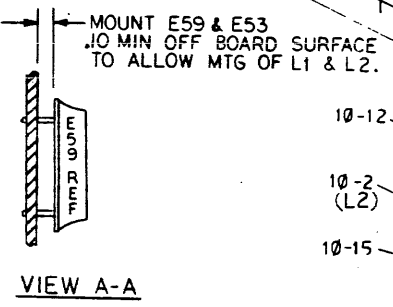
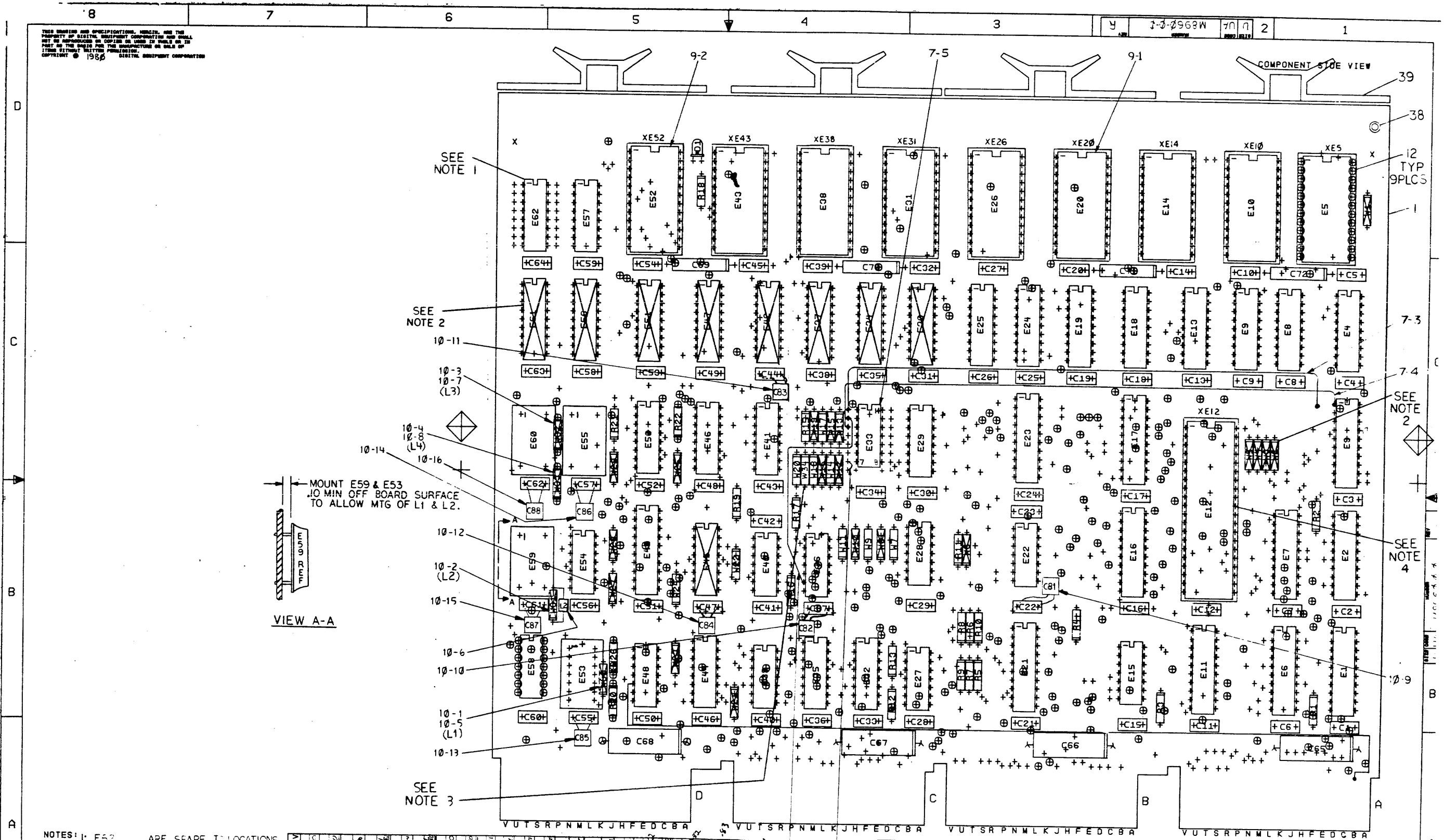
NOTE 2 *

W29	W28	W6	W20	CLOCK SPEED
OUT	OUT	OUT	IN	6.028 MHZ 166NS
OUT	IN	IN	OUT	7.800 MHZ 115NS
IN	OUT	IN	OUT	10.000 MHZ 100NS

NOTE 2: * INDICATES NORMAL CONFIGURATION.

REVISIONS		
CHK	CHANGE NO.	REV.

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NOTES: 1. E52 ARE SPARE I/O LOCATIONS
2. PARTS CROSSED OUT ARE NOT TO BE INSTALLED AT ASSEMBLY.
3. REMARK INSTRUCTION: REPLACE R14, 1K 1/4W RESISTOR WITH A JUMPER W34.
4. E2, W16, W24, L1-L4 ARE TO BE INSTALLED AFTER GR TEST, NOT AT ASSEMBLY TIME.

STEP E	→ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHANGE NO	REV	DATE	BY	CHKD
1	1	11/16/79	D. JERVIS	
2	1	11/16/79	D. JERVIS	
3	1	11/16/79	D. JERVIS	
4	1	11/16/79	D. JERVIS	
5	1	11/16/79	D. JERVIS	
6	1	11/16/79	D. JERVIS	
7	1	11/16/79	D. JERVIS	
8	1	11/16/79	D. JERVIS	
9	1	11/16/79	D. JERVIS	
10	1	11/16/79	D. JERVIS	
11	1	11/16/79	D. JERVIS	
12	1	11/16/79	D. JERVIS	
13	1	11/16/79	D. JERVIS	
14	1	11/16/79	D. JERVIS	
15	1	11/16/79	D. JERVIS	
16	1	11/16/79	D. JERVIS	
17	1	11/16/79	D. JERVIS	
18	1	11/16/79	D. JERVIS	
19	1	11/16/79	D. JERVIS	
20	1	11/16/79	D. JERVIS	
21	1	11/16/79	D. JERVIS	
22	1	11/16/79	D. JERVIS	
23	1	11/16/79	D. JERVIS	
24	1	11/16/79	D. JERVIS	
25	1	11/16/79	D. JERVIS	
26	1	11/16/79	D. JERVIS	
27	1	11/16/79	D. JERVIS	
28	1	11/16/79	D. JERVIS	
29	1	11/16/79	D. JERVIS	
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31	1	11/16/79	D. JERVIS	
32	1	11/16/79	D. JERVIS	
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34	1	11/16/79	D. JERVIS	
35	1	11/16/79	D. JERVIS	
36	1	11/16/79	D. JERVIS	
37	1	11/16/79	D. JERVIS	
38	1	11/16/79	D. JERVIS	
39	1	11/16/79	D. JERVIS	
40	1	11/16/79	D. JERVIS	
41	1	11/16/79	D. JERVIS	
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46	1	11/16/79	D. JERVIS	
47	1	11/16/79	D. JERVIS	
48	1	11/16/79	D. JERVIS	
49	1	11/16/79	D. JERVIS	
50	1	11/16/79	D. JERVIS	

ETCH REV. D

SIGNATURES	DATE	digital
DRN.	11-16-79	
CHK'D.	11-16-79	TITLE
MECH. ENG.	11-16-79	8085 CPU
PROD. ENG.	11-16-79	SIZE CODE
SCALE	1/16"	NUMBER
SHT. 1 OF 2		REV
NEXT HIGHER ASSY.	6800A-89-0-0	D UA M85-0-0-0

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REWORK INSTRUCTIONS

ECO #1

WIRE ADDS SIDE 1.
(1-3) ADD WIRE TO PTH OF E3-12 TO E48-5.

ECO #3

E38 REPLACE 23-129E2-00 WITH 23-254E2-00
E31 REPLACE 23-128E2-00 WITH 23-251E2-00
E52 REPLACE 23-130E2-00 WITH 23-252E2-00
E20 REPLACE 23-123E2-00 WITH 23-253E2-00

ECO #5

E41 REMOVE DEC P/N 1912849-00
REPLACE DEC P/N 1913294-00

ECO #10:

SIDE 1:

COMPONENT DELETES:

10-1. DELETE W30 JUMPER WIRE P/N 9009185-00.
10-2. DELETE W31 JUMPER WIRE P/N 9009185-00.
10-3. DELETE W32 JUMPER WIRE P/N 9009185-00.
10-4. DELETE W33 JUMPER WIRE P/N 9009185-00.

COMPONENT ADDS:

10-5. REPLACE W30 P/N 9009185-00 WITH L1 P/N 1621574-01.
10-6. REPLACE W31 P/N 9009185-00 WITH L2 P/N 1621574-01.
10-7. REPLACE W32 P/N 9009185-00 WITH L3 P/N 1621574-01.
10-8. REPLACE W33 P/N 9009185-00 WITH L4 P/N 1621574-01.
10-9. ADD CAP. C81 P/N 1011740-05 IN PARALLEL WITH C22 CAPACITOR.
10-10. ADD CAP. C82 P/N 1011740-05 IN PARALLEL WITH C37 CAPACITOR.
10-11. ADD CAP. C83 P/N 1011740-05 IN PARALLEL WITH C44 CAPACITOR.
10-12. ADD CAP. C84 P/N 1011740-05 IN PARALLEL WITH C47 CAPACITOR.
10-13. ADD CAP. C85 P/N 1011740-05 IN PARALLEL WITH C55 CAPACITOR.
10-14. ADD CAP. C86 P/N 1011740-05 IN PARALLEL WITH C57 CAPACITOR.
10-15. ADD CAP. C87 P/N 1011740-05 IN PARALLEL WITH C61 CAPACITOR.
10-16. ADD CAP. C88 P/N 1011740-05 IN PARALLEL WITH C62 CAPACITOR.

ECO #11:

11.1 E26- REPLACE 23316E2-00 WITH 23334E2-00
11.2 E14- REPLACE 23317E2-00 WITH 23335E2-00
11.3 E10- REPLACE 23282E2-00 WITH 23336E2-00
11.4 E31- REPLACE 23286E2-00 WITH 23337E2-00
11.5 E52- REPLACE 23357E2-00 WITH 23338E2-00

ECO #7

7-1 ADD WIRE SIDE 1 FROM E33-7 TO FTH BELOW PIN-7
7-2 ADD WIRE SIDE 1 FROM E33-2 TO E34-6
7-3 ADD WIRE SIDE 1 FROM E33-1 TO FORMER FTH OF E3-1
7-4 ADD WIRE SIDE 1 FROM E33-3 TO E3-1
7-5 COMPONENT ADD ADD E33

ECO #8

E26-REPLACE 23285E2-00 WITH 23316E2-00
E14-REPLACE 23283E2-00 WITH 23317E2-00
E52-REPLACE 23288E2-00 WITH 23319E2-00
E43-REPLACE 23127E2-00 WITH 23318E2-00

ECO #9

9-1. E20-REPLACE 23284E2-00 WITH 23356E2-00.
9-2. E52-REPLACE 23319E2-00 WITH 23357E2-00.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	8085 CPU	SIZE CODE	D UA	NUMBER	M8960-0-0	REV.	R
SCALE	2/1	SHEET	2 OF 2	DIST.			

REV. R
NUMBER M8960-0-0
D UA

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
				00	
1	1	5013133-00	8085 CPU	1	
2	2	SPARE LOCATION	*** THIS ITEM IS NOT USED ***	-	
3	3	1913294-00	93S16 COUNTER,SYNCH UP BIN	1	E41
4	4	2114963-00	UP,8-RIT NMOS	1	E12
5	5	1811660-24	OSCILLATOR, XTAL 18.084 MHZ	1	E53
6	6	2114212-00	P 2114-2 RAM,1024X4,STATIC	8	E4,E8,E9,E13,E19,E24,E18,E25
7	7	1012784-00	.047 MFD 50V +80-20Z CER	62	C1-C22,C24-C41,C43-C64
8	8	1002433-00	22 MFD 35V 20Z S.TANT	4	C65-C68
9	9	1005306-00	6.8MFD 35V 10Z S.TANT	4	C69-C72
10	10	1010274-01	.22 MFD 50V +80-20Z ZSU CER	2	C23,C42
11	11	1110324-00	LED 1MCD@10MA PIV=3	1	D1
12	12	1215006-06	SKT,IC 24PIN DIP TIN SOLD	9	CONT XE5,XE10,XE14,XE20,XE26,XE31,XE38,XE43,XE52
13	13	1300295-00	330.0 .25 W 5.0 Z CF	4	R5,R9,R10,R11
14	14	1300365-00	1.0 K .25 W 5.0 Z CF	7	R6,R15,R17,R7,R8,R20,R22
15	15	1300447-00	4.70 K .25 W 5.0 Z CF	8	R4,R16,R12,R13,R2,R3,R1,R19
16	16	1301972-00	270.0 .25 W 5.0 Z CF	2	R21,R18
17	17	1302388-00	*** THIS ITEM IS NOT USED ***	-	
18	18	1811660-00	OSCILLATOR, XTAL 20.000 MHZ	1	E55
19	19	1811660-03	OSCILLATOR, XTAL 15.600 MHZ	1	E60
20	20	1811660-07	OSCILLATOR, XTAL 21.840 MHZ	1	E59
21	21	1910724-00	74180 PARITY TREE,BRIT GEN	1	E54
22	22	1910956-00	74S151 MUX 1 GF 8	2	E35,E44
23	23	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	2	E27,E36
24	24	1912811-00	LS21 AND GATE-DUAL 4IN,PO	1	E48
25	25	1912816-00	LS32 OR GATE-QUAD 2IN,POS	2	E15,E39
26	26	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	1	E40
27	27	1912834-00	LS112 FF-JK,DUAL,EDGE TRIG	1	E50
28	28	1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E33
29	29	1912842-00	LS138 DECODER-THREE INPUT,	2	E29,E32

REVISION HISTORY		BASIC PART NO: M8960		DRN:	S. MARLOW	DATE:	28-AUG-78	DIGITAL			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	S. TUTTLE	DATE:	28-AUG-78	TITLE	PARTS LIST		
	INIT	C	SECTION VARIATION INDEX								
D.J	M8960-ML001	D	[A] 00					8085 CPU			
DJ	M8960-ML002	E	[R]								
DJ	M8960-ML003	F	[C]	DES.ENG:	BOB RICHMOND	DATE:	28-AUG-78				
DJ	M8960-ML004	H	[D]								
DB	M8960-ML005	J	[E]								
DB	M8960-ML006	K	[F]	RESP.ENG.:	BOB RICHMOND	DATE:	28-AUG-78				
R.O	M8960-ML007	L	[H]								
R.O	M8960-ML008	M	[J]					SIZE	CODE	NUMBER	REV
R.O	M8960-ML009	N	[K]	MFG.ENG.:	P.BARTON	DATE:	12-SEP-79	K	PL	M8960-0-DBP	R
R.O	M8960-SH010	P	[L]								
R.O	M8960-SH011	R	[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[N]	D-UA-M8960-0-0		#B-DD-M8960-0		Z0927R.PLS		36	

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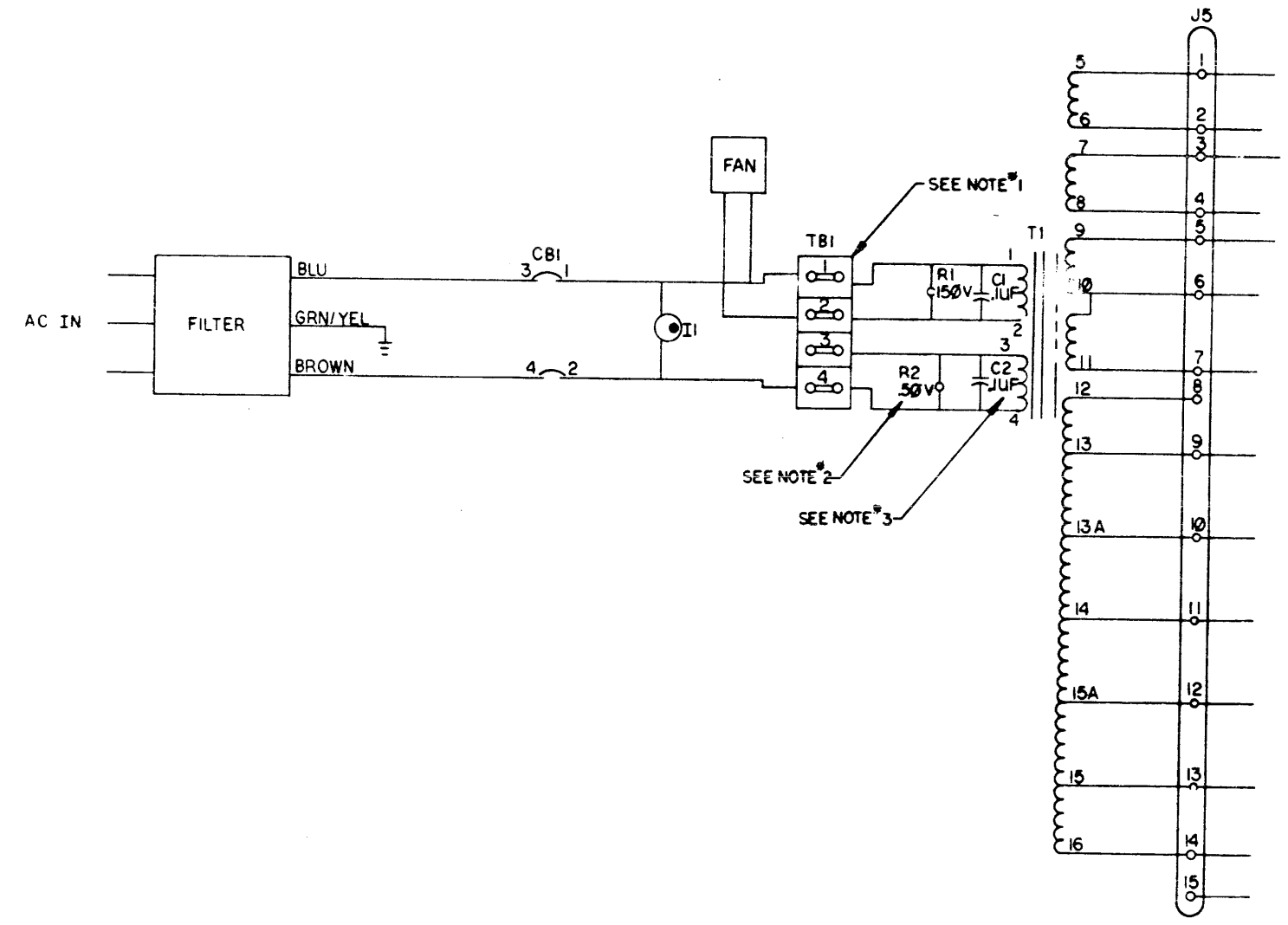
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1912843-00	LS139 DECODER, 2 OF 4(DUAL	1	E46
31	31		1912844-00	LS151 MUX 1 OF 8 & DATA	1	E57
32	32		1912872-00	LS377 FF-D 8BIT W/ENABLE	1	E49
33	33		1913414-00	LS14 INVERTER GATE-HEX SC	2	E22,E28
34	34		1913670-00	74S373 LATCH,8BIT TRANS TRI	1	E21
35	35		1913777-00	LS240 DRIVER,LINE,OCTAL,T	2	E3,E11
36	36		1914213-00	81LS97 BUFFER GATE-OCTAL 2I	6	E1,E2,E6,E7,E17,E16
37	37		1914214-00	LS374 FF-D OCTAL EDGE TRIG	1	E23
38	38		9006732-00	EYELET,ROLLED 0.1210DX0.219	8	
39	39		9008337-06	HANDLE, FLIP CHIP, MAGENTA	4	
40	40		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	11	W7,W9,W11,W14,W17,W18,W20,W22, CONT W24,W26,W34
41	41		1912838-00	LS132 NAND GATE-QUAD 2IN P	1	E58
42	42		23394E2-00	E2-04	1	E26
43	43		23356E2-00	E2-04	1	E20
44	44		23395E2-00	E2-04	1	E14
45	45		23396E2-00	E2-04	1	E10
46	46		23255E2-00	E2-04	1	E5
47	47		23318E2-00	E2-04	1	E43
48	48		23397E2-00	E2-04	1	E31
49	49		23287E2-00	E2-04	1	E38
50	50		23398E2-00	E2-04	1	E52
51	51	D-UA-M8960-0-0		UNIT ASSY	REF	
52	52	D-CS-M8960-0-1		CIRCUIT SCHEMATIC	REF	
53	53	D-MD-5013133-0-0		DRILL & ETCH DWG	REF	
54	54	D-EC-5013133-0-0		ETCH CUT DWG	REF	
55	55		9105740-55	WIRE(WRAP) 30AWG KYNAR UL14	A/R	
56	56		1215006-08	SKT,IC 40PIN DIP TIN SOLD	1	XE12
57	57		1215006-00	*** THIS ITEM IS NOT USED ***	-	
58	58	BLANK		*** THIS ITEM IS NOT USED ***	-	
59	59		1011740-05	1000.0 MMF 50V 10% CER	8	C81-C88
60	60		1621574-01	BEAD,FERRITE	4	L1-L4

DR	IG	IT	AL	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				8085 CPU			K PL	M8960-0-DBP	R

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DCS H7422-0-1

- NOTES:
1. WHEN 120V IS USED JUMPER PINS 1-3 AND 2-4 OF TBI AS SHOWN. WHEN 240V IS USED JUMPER 2-3 ONLY.
 2. R1 AND R2 ARE 150V VARISTORS.
 3. C1 AND C2 ARE 270VAC.



REVISION HISTORY	REV	DATE	INITIAL	DESCRIPTION
	A			
	B	11/17/77	MLD	REVISED TO ACC 80
			A. BARON	REVISION 2-22-80

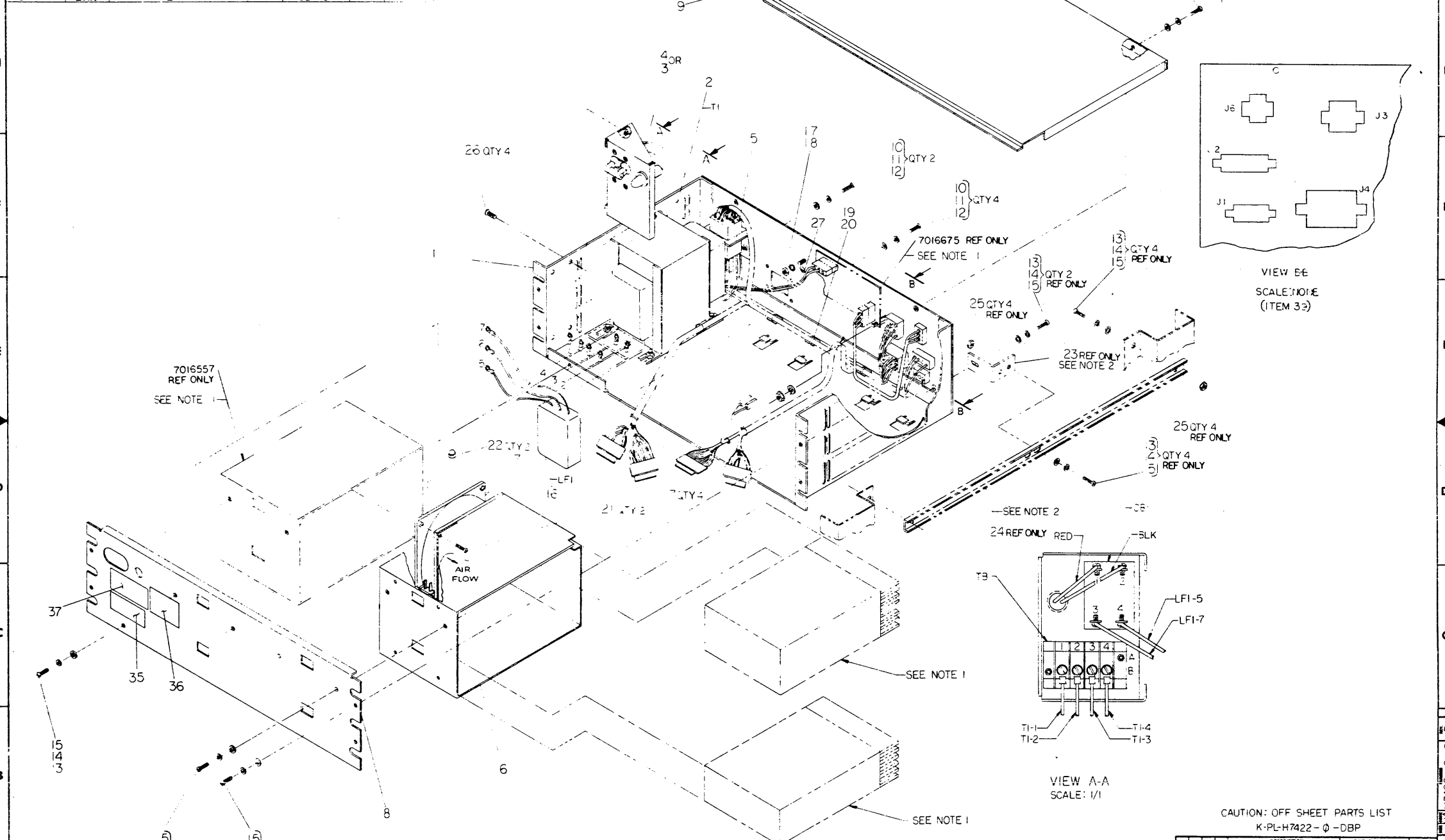
ANGEL COLON	DATE	TITLE
	24 SEPT 80	
J.H. KYLE	23 APR 80	H7422 CIRCUIT SCHEMATIC
A. Baron	23 APR 80	
A. Baron	23 APR 80	
Paul Baron	4 23 80	
B-DD-H7422-0		DOCUMENT NUMBER
DCS	H7422-0-1	a

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WIRE TABLE										
ITEM NO.	DESCRIPTION	AWG	COLOR	POINT	CONNECT ON	TERM	POINT	CONNECT ON	TERM	REMARKS
1										
2			BLK	4	T1			T1-1		
3			BLK	4	T1			T1-2		
4			BLK	4	T1			T1-3		
5			BLU	5	LFI			LFI-4		
6			GRN/YEL	5	LFI			END STUD		
7			BRN	7	LFI			CBI-3		

LEGEND	
NUMBER	VARIATION
H7422-AA	120 V
H7422-AB	240 V

NOTES:
 1. ITEMS SHOWN IN PHANTOM LINES ARE FOR PLACEMENT REF. ONLY, THEY ARE NOT INCLUDED IN THE H7422 POWER SUPPLY.
 2. ITEMS 23 & 24 CAN BE USED ONLY WITH H9546-FB SINGLE WIDTH FRAME.
 3. ITEMS 28 THRU 33 ARE USED ON DWG. E-AD-7017121-0-0.



CAUTION: OFF SHEET PARTS LIST
 K-PL-H7422-0-DBP

INITIAL	DATE	DESCRIPTION

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLE	CLASS OF	NOMINAL DIMENSION	
OF CUT	ADJUSTMENT	1/8	1/4
SURFACE	FINISH	3/8	1/2
QUALITY	FINISH	5/8	3/4
		1	2
		3	4
		5	6
		7	8
		9	10
		11	12
		13	14
		15	16
		17	18
		19	20
		21	22
		23	24
		25	26
		27	28
		29	30
		31	32
		33	34
		35	36
		37	38
		39	40
		41	42
		43	44
		45	46
		47	48
		49	50
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		53	54
		55	56
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		67	68
		69	70
		71	72
		73	74
		75	76
		77	78
		79	80
		81	82
		83	84
		85	86
		87	88
		89	90
		91	92
		93	94
		95	96
		97	98
		99	100

TITLE
 H7422
 POWER SUPPLY

SIZE CODE
 H UA H7422-0-0

REV. D

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					AA	AB
1	1	E-IA-7016566-0-0	7016556-00	CHASSIS, WELDMENT	1	1
2	2	D-IA-7016620-0-0	7016620-00	TRANSFORMER ASSY	1	1
3	3	D-AD-7016573-0-0	7016573-00	A.C. BRACKET ASSY	1	1
4	4	D-AD-7016573-0-0	7016573-01	AC BRT ASSY (240 V)	1	1
5	5	C-IA-7422611-0-0	7422611-00	BRKT, CONNECTOR	1	1
6	6	D-IA-7016557-0-0	7016557-00	MODULE CARRIER WELDMENT	1	1
7	7		1209403-02	FAN, 117CFM, BALL BEARING, STD HOU	1	1
8	8	D-MD-7422251-0-0	7422251-00	PANEL FRONT	1	1
9	9	E-MD-7422253-0-0	7422253-00	COVER	1	1
10	10		9006022-01	SCREW, PAN, PHIL 6-32X 3/8 SS	6	6
11	11		9007801-00	WASHER, LOCK, S.S. #6	6	6
12	12		9006659-00	WASHER, FLAT, .375 O.D. X .156 I	6	6
13	13	SEE NOTE	9006037-01	SCREW, PAN, PHIL 8-32X 3/8 SS	11	11
14	14	SEE NOTE	9006690-00	WASHER, LOCK, S.S. #8	11	11
15	15	SEE NOTE	9006660-00	WASHER, FLAT, .375 O.D. X .187 I	11	11
16	16	D-IA-7016574-0-0	7016574-00	LINE FILTER ASSY	1	1
17	17		9006565-00	NUT, KEP 10-32X 3/8 AF	5	5
18	18		9007651-00	WASHER, LOCK, EXTERNAL TOOTH #10	1	1
19	19		9008264-00	MOUNT, CABLE TIE, ADHESIVE BACKE	A/R	A/R
20	20		9007032-00	TIE, CABLE BUNDL. DIA 0-1-3/4"=101	A/R	A/R
21	21		9006025-01	SCREW, PAN, PHIL 6-32X 5/8 SS	2	2
22	22		9006612-00	NUT, CAP 6-32 X5/16AF REL	2	2
23	23	SEE NOTE	7422570-00	BRKT. SUPPORT REAR END	REF	REF
24	24	SEE NOTE	7422559-00	RAIL SUPPORT REAR END	REF	REF
25	25	SEE NOTE	9006563-00	NUT, KEP 8-32 X11/32AF	REF	REF
26	26		9006037-02	SCREW, FLAT, PHIL 8-32X 3/8	4	4
27	27		3612680-00	DECAL, GROUND SIGN PER 3E6 *	1	1
28	28		7016675-00	HARNESS POWER	REF	REF
29	29		7017192-00	CABLE ASSY. AC-DC-10 (INPUT)	REF	REF
30	30		5414192-00	AC DC LOWBOARD	REF	REF

REVISION HISTORY		BASIC PART NO: H7422		DRN: D. DIPERRI	DATE: 16-MAY-79	DIGITAL	
ENG: ECO NUMBER	REV	SECTION A OF A	CHK'D: F. H. KEYES JR	DATE: 26-SEP-79	TITLE PARTS LIST		
INITIAL	A	SECTION. VARIATION INDEX			H7422 POWER SUPPLY		
A.B. H7422-MLOO1	B	(A) AA, AB					
		(B)	DES. ENG.: AL BARON	DATE: 25-JAN-80			
		(C)			DOCUMENT NUMBER		
		(D)	RESP. ENG.: AL BARON	DATE: 25-JAN-80	SIZE	CODE	NUMBER
		(E)			K	PL	H7422-0-DBF
		(F)	MFG. ENG.: PETER BARTON	DATE: 25-JAN-80	REV B		
		ASSEMBLY NUMBER: E-UA-H7422-0-0		TOP DOCUMENT NUMBER: #B-DD-H7422-0	FILE NAME:	EDIT #	
					Z0572B.PLS	19	

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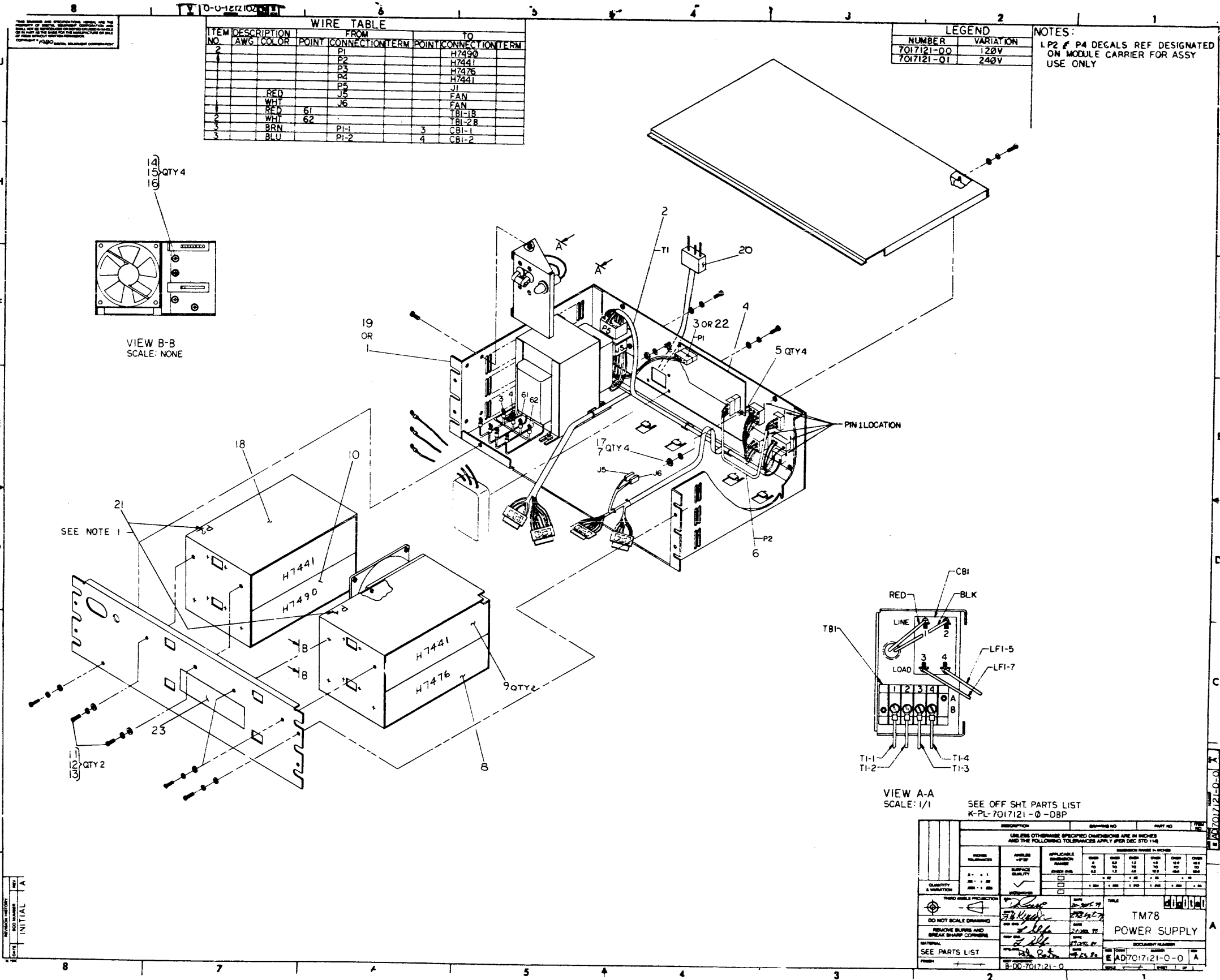
PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					AA	AB
31	31		9006800-00	SPACER, HEX, ALUM, .138 ID X .2	REF	REF
32	32		7017366-00	CABLE ASSY. AC-DC-10 (OUTPUT)	REF	REF
33	33		9008185-00	NUT, KEP 6-32X1/4 AF	REF	REF
34	34		7017192-01	CABLE ASSY AC/10-10(240V)	REF	REF
35	35		3617543-00	LABEL, PWR SUPPLY I.D.	1	-

36 NOTE: WHEN USING ITEMS 23(QTY 2), 24(QTY 2), & 25(QTY 8) INCREASE ITEMS 13,14, & 15 FROM 11 TO 19.
37 NOTE: ITEM 28 THRU 34 FOR REF., REFER TO DWG 7017121.

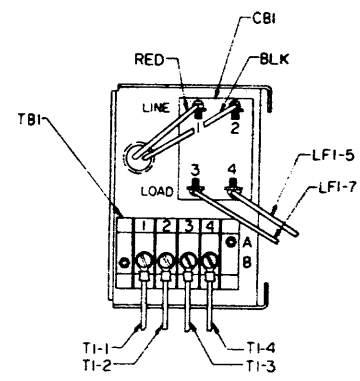
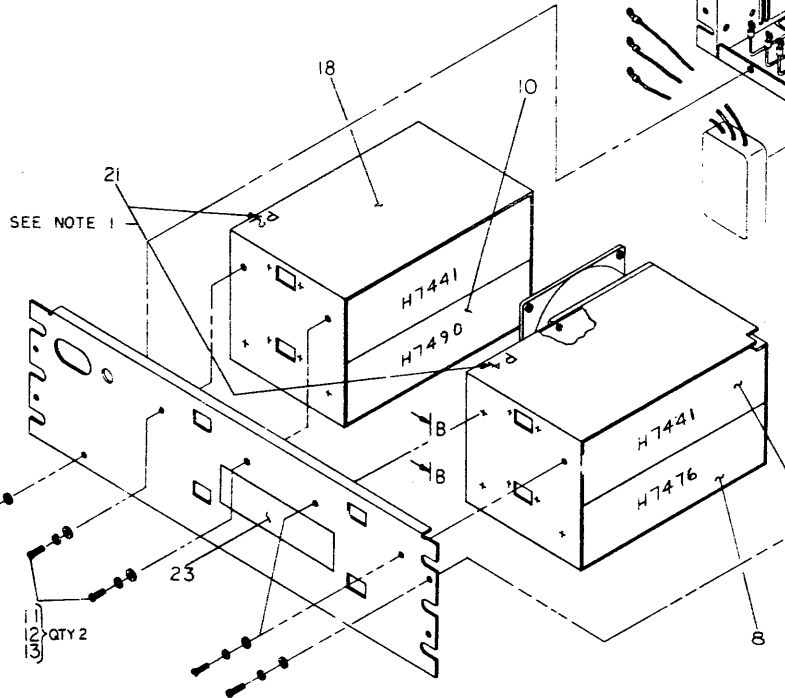
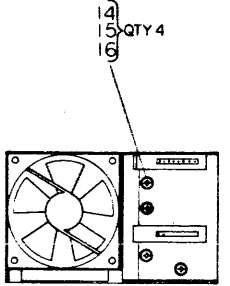
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							H7422 POWER SUPPLY		K	PL	H7422-0-DBP	B



WIRE TABLE					
ITEM NO	DESCRIPTION	FROM	TO	POINT CONNECTION	POINT CONNECTION
1		P1	H7490		
2		P2	H7441		
3		P3	H7476		
4		P4	H7441		
5	RED	J1	J1		
6	WHT	J6	FAN		
7	RED	J6	FAN		
8	WHT	61	TBI-1B		
9	BRN	62	TBI-2B		
10		PI-1	CBI-1		
11	BLU	PI-2	CBI-2		

LEGEND	
NUMBER	VARIATION
7017121-00	120V
7017121-01	240V

NOTES:
 LP2 & P4 DEGALS REF DESIGNATED ON MODULE CARRIER FOR ASSY USE ONLY



DESCRIPTION	QUANTITY	UNIT	REVISION
POWER SUPPLY	1	EA	1

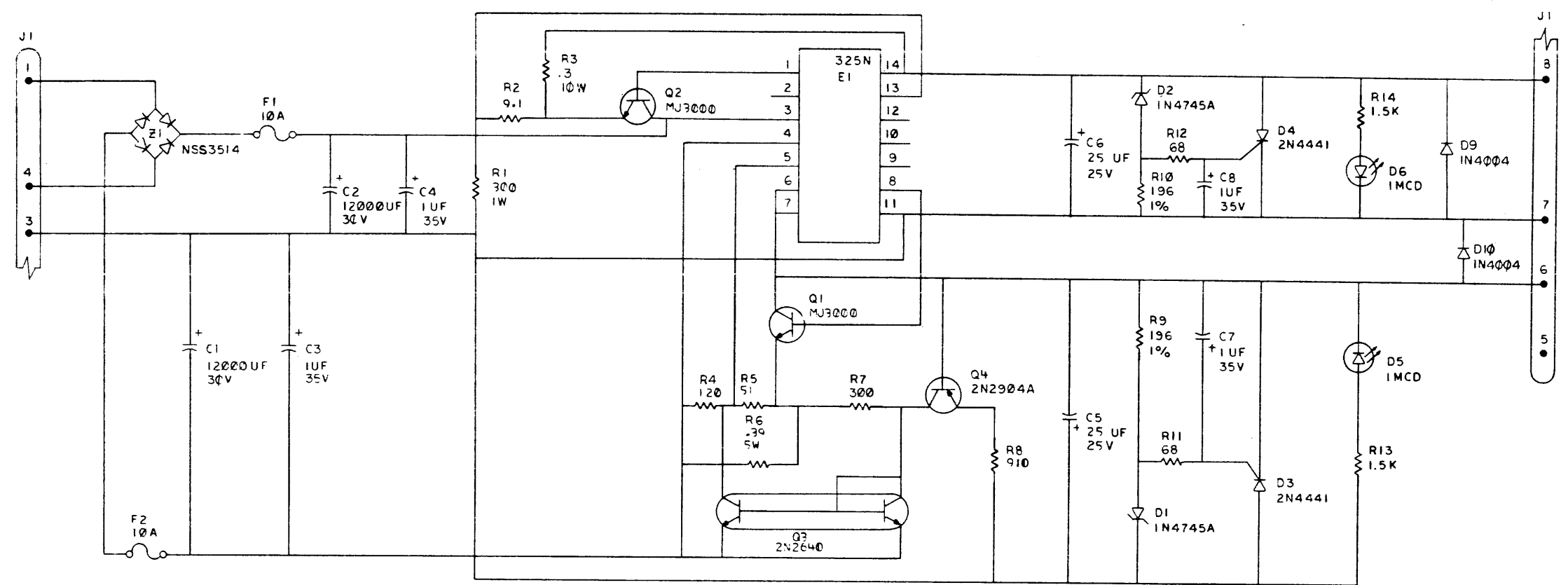
TM78
POWER SUPPLY
AD7017121-0-0 A

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION		
				00	01	
1	1	E-UA-H7422-0-0	H7422-AA	300W 120V 5X9" SUPPLY, AC LO, DC LO	1	-
2	2	E-IA-7016675-0-0	7016675-00	HARNESS POWER	1	1
3	3	C-IA-7017192-0-0	7017192-00	CABLE ASSY. AC-DC-10 (INPUT)	1	-
4	4	D-AD-5414192-0-0	5414192-00	AC DC LOWBOARD	1	1
5	5		9006800-00	SPACER, HEX, ALUM, .138 ID X .2	4	4
6	6	C-IA-7017366-0-0	7017366-00	CABLE ASSY. AC-DC-10 (OUTPUT)	1	1
7	7		9006560-00	NUT, KEP, 6-32 X 5/16 AF	4	4
8	8	D-AD-H7476-0-0	H7476-00	+/-15V 2A TRACKING LINEAR REGULA	1	1
9	9	D-AD-H7441-0-0	H7441-00	+5V 32A REGULATOR FOR H7420, H765	2	2
10	10	D-AD-H7490-0-0	H7490-00	+5V LINEAR REGULATOR, NEEDS 8VAC	1	1
11	11		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	2	2
12	12		9006690-00	WASHER, LOCK, S.S. #8	2	2
13	13		9006037-01	SCREW, PAN, PHIL 8-32X 3/8 SS	2	2
14	14		9006664-00	WASHER, FLAT, .437 OD X .218 ID	8	2
15	15		9007906-00	WASHER, LOCK S.S. #10	8	8
16	16		9006071-01	SCREW, PAN, PHIL 10-32X 3/8 SS	8	8
17	17		9006656-00	WASHER, FLAT, .312 O.D. X .156 I	4	4
18	18	D-IA-7016557-0-0	7016557-00	MODULE CARRIER WELDMENT	1	1
19	19	E-UA-H7422-0-0	H7422-AB	300W 240V 5X9" SUPPLY, AC LO	-	1
20	20		1700083-01	PWR CORD, TERM. 75IN, 14-3, 250V 6	-	1
21	21		7409872-02	DECAL PWR HARNESS [BLK/CLR]	1	1
22	22	C-IA-7017192-0-0	7017192-01	CABLE ASSY AC/10-10(240V)	1	1
23	23		3617542-00	LABEL, MODULE LOCATION	1	1

REVISION HISTORY			BASIC PART NO: 7017121		DRN: D. DIPERRI <i>DD</i>		DATE: 21-SEP-79		D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	F. H. KEYES JR <i>FK</i>	DATE:	26-SEP-79	TITLE	PARTS LIST		
	INITIAL	A	SECTION. VARIATION INDEX					TM78 POWER SUPPLY			
			[A] 00,01								
			[B]	DES.ENG.:	L. SALAFIA <i>LS</i>	DATE:	25-JAN-80		DOCUMENT NUMBER		
			[C]								
			[D]	RESP.ENG.:	L. SALAFIA <i>LS</i>	DATE:	25-JAN-80	SIZE	CODE	NUMBER	REV
			[E]								
			[F]	MFG.ENG.:	PETER BARTON <i>P.B.</i>	DATE:	25-JAN-80	K	PL	7017121-0-DBP	A
				ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #		
				E-UA-7017121-0-0		#B-DD-7017121-0		Z0943A.PLS	18		

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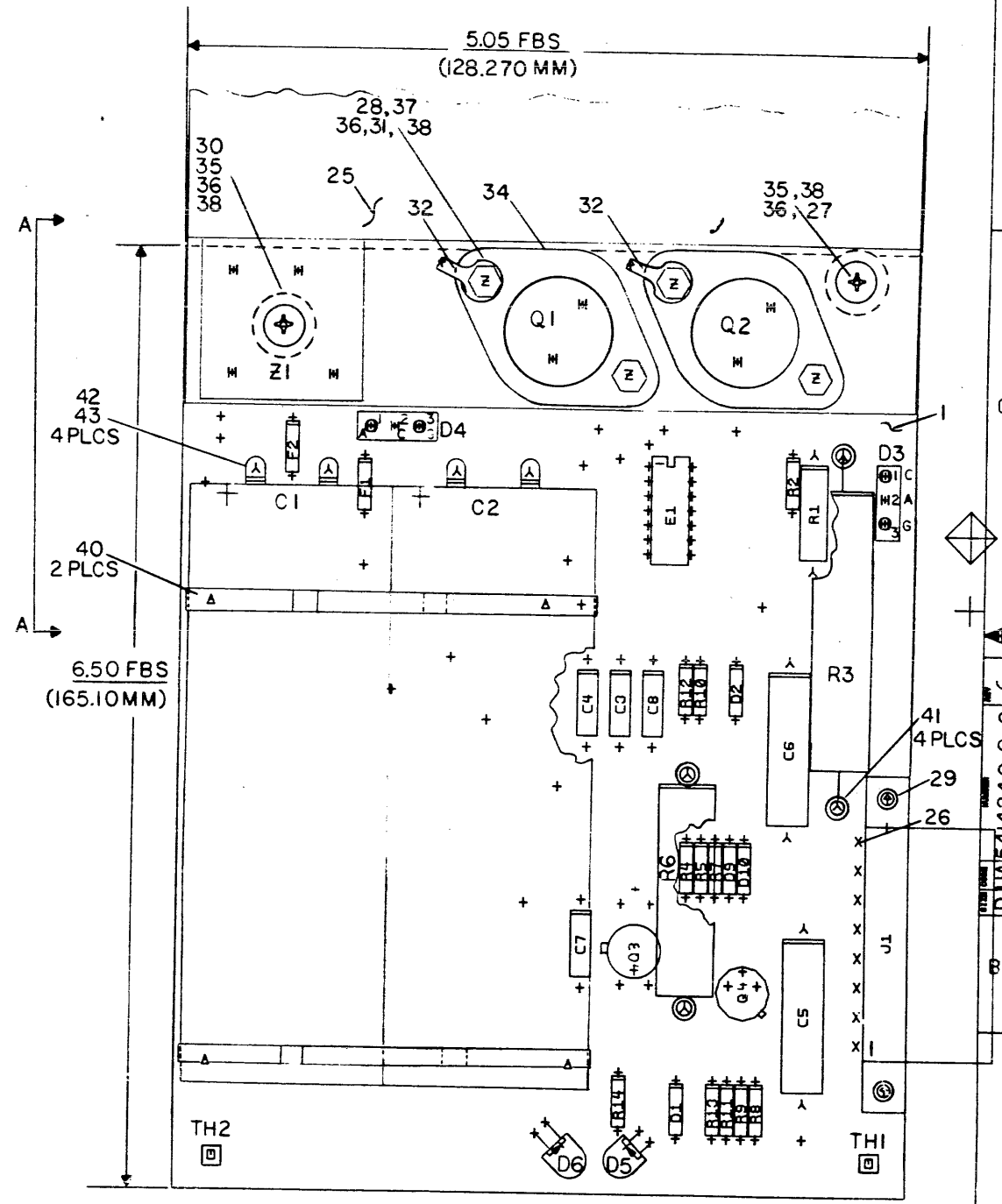
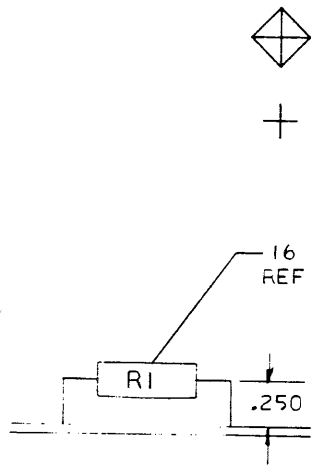
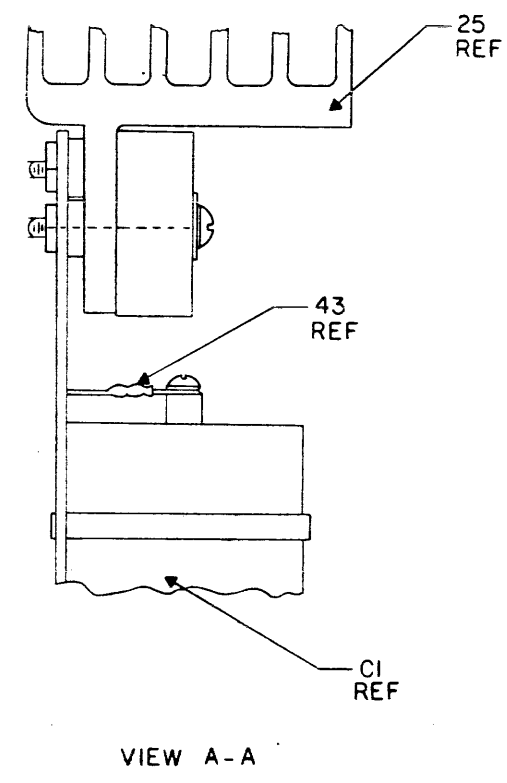
REV.	CHG.	NO.	DATE	BY	REVISIONS
1					INITIALS
2					REVISIONS

DRW	CHK'D	ENG.	PROJ. ENG.	PROD.	NEXT HIGHER ASSY.	FIRST USED ON	TITLE
						H7422	H7476 REGULATOR
B:DD-5414240-0	SCALE	SHEET	OF	DIST.	SIZE	CODE	NUMBER
					D	CS	5414240-0-1

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 1980

8 7 6 5 4 3 2 1
 DUA5414240-0-C

COMPONENT SIDE VIEW



NOTES:

STEP E	→ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHG	NO	REV	DATE	BY	APP
A	1				
B	2				
C	3				

ETCH REV.	C
PC DATA BASE	CL

SIGNATURES		DATE	digital
DRN. <i>V. J. ...</i>		1-15-80	
CHK'D. <i>[Signature]</i>		1-15-80	TITLE H7476 REGULATOR
MECH. ENG. <i>[Signature]</i>		2-4-80	
PROJ. ENG. <i>[Signature]</i>		2-9-80	
PROD. <i>[Signature]</i>		2-12-80	
SCALE 2/1			SIZE CODE NUMBER REV
SHT. 1 OF 1			D UA 5414240-0-C
NEXT HIGHER ASSY. B-DD-5414240-0			

1 MS#180608

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1		D-MD-5014239-0-0	5014239-00	DRILL & ETCH BRD	1	
10			1009968-00	12,000 MFD 30V +75-10% AL EL	1	C1,C2
11			1001776-00	1 MFD 35V 10% S.TANT	1	C3,C4,C7,C8
12			1000075-00	25 MFD 25V +75-10% AL EL	1	C5,C6
13			1113117-00	1N 4745A VZ=16.0 5% 1W A	1	D1,D2
14			1505867-00	2N 4441 SCR@ 50V & 8A	1	D3,D4
15			1110324-00	LED 1MCD@10MA PIV=3	1	D5,D6
16			1105796-00	1N 4004 PIV=400 I= 1A D041 SP	1	D9,D10
17			1210929-01	FUSE SUB-MINI 10.000A 125V, A	1	F1,F2
18			1110714-00	NSS3514 FWR@400 I=20A (TRW)	1	Z1
19			1511349-00	TIP 640 (OR MJ3000) NPN DARLINGT	1	Q1,Q2
20			1517856-00	2N 2640 NPN 600MW SI	1	Q3
21			1501913-00	2N 2904A PNP 600MW SI 60 40 Y	1	Q4
22			1913218-00	325 VOLT REG FIX +/-15V	1	E1
23			1317918-00	9.10 .25 W 5.0 % CC	1	R2
24			1300292-00	300.0 1.0 W 5.0 % CC	1	R1
25			1309107-00	.30 10.0 W 5.0 % WW	1	R3
26			1301425-00	300.0 .25 W 5.0 % CC	1	R7
27			1312928-00	51.0 .25 W 5.0 % CC	1	R5
28			1305374-00	910.0 .25 W 5.0 % CC	1	R8
29			1302956-00	196.0 .25 W 1.0 % RN550-F10	1	R9,R10
30			1300219-00	68.0 .25 W 5.0 % CC	1	R11,R12
			1300391-00	1.50 K .25 W 5.0 % CC	1	R13,R14
			1209340-00	MATE-N-LOK 8POS COMM HSG,SKT	1	J1
			1217031-00	HEAT SINK,EXTRUDED	1	
			1209455-01	MATE-N-LOK SKT COMM PC MTG LOOSE	1	
			9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	1	
			9007793-01	SCREW,PAN,PHIL 6-32X 9/16 SS	1	
			9006732-00	EYELET ROLL FLANGE .1210DX .219	1	
			9008916-01	SCREW,PAN,PHIL 6-32X 15/16SS	1	

REVISION HISTORY		BASIC PART NO: 5414240		DRN: SUE BOURBEAU		DATE: 19-MAR-80		D I G I T A L	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	JIM FITZGERALD	DATE:	19-MAR-80	TITLE	PARTS LIST
	INITIAL	B	SECTION VARIATION INDEX					H7476 REGULATOR	
L.S.	5414240-MLO01	C	(A) 00						
			(B)						
			(C)						
			(D)						
			(E)						
			(F)						
			(H)						
			(J)						
			(K)						
			(L)						
			(M)						
			(N)						
				DES.ENG:	L J SALAFIN	DATE:	19-MAR-80	DOCUMENT NUMBER	
				RESP.ENG.:	L J SALAFIN	DATE:	19-MAR-80	SIZE:CODE: NUMBER	REV
				MFG.ENG.:	P BARTON	DATE:	19-MAR-80	K PL 5414240-0-DBP	C
				ASSEMBLY NUMBER:	D-UA-5414240-0-0	TOP DOCUMENT NUMBER:	#B-DD-5414240-0	FILE NAME:	EDIT #
								20782C.PLS	5

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AUTOMATED BY PRTLST.3M(41)

PARTS LIST

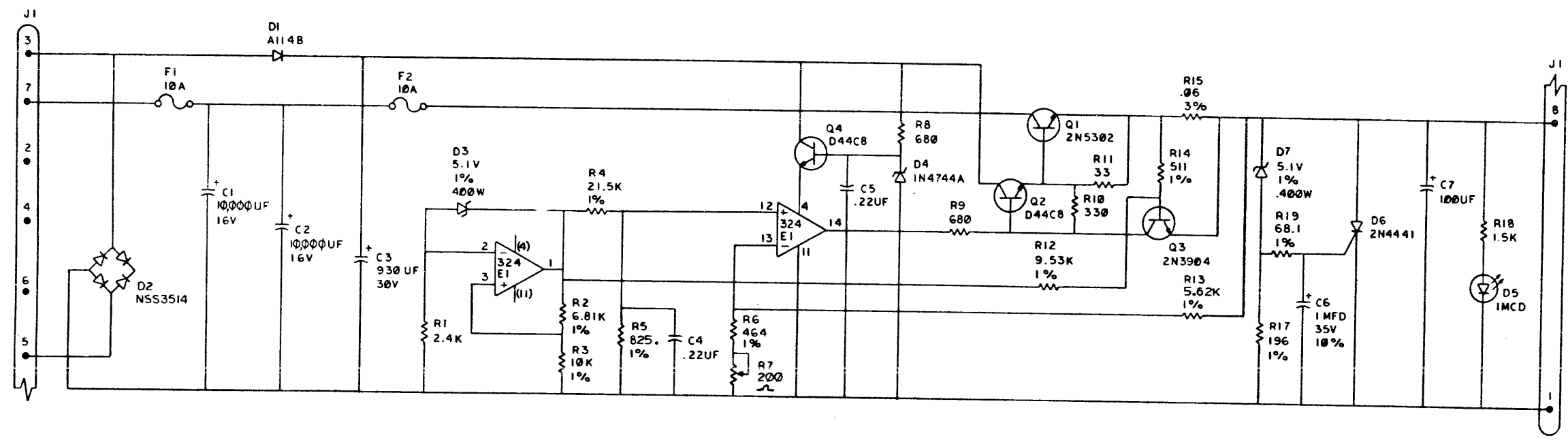
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
43	41	41	9008185-00	NUT,KEP 6-32X 1/4 AF	4		
43	41	41	9009676-00	TERM,SOLDER BARRIER STR	2		
43	41	41	9009993-00	WASHER,INSULAT'G,CLEAR MICA	2		
43	41	41	1214789-00	INSERT,THREADED 6-32 BRASS,ELEC	2		
43	41	41	9006656-00	WASHER,FLAT,.312 O.D. X .156 I	4		
43	41	41	9006707-00	WASHER,NYLON,FLAT #6 .312 OD	4		
43	41	41	9007801-00	WASHER,LOCK,S.S.#6	6		
43	41	41	9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	4		
43	41	41	9009798-00	SPACER,CERAMIC,.186 ODX.078 ID	4		
43	41	41	9007930-00	TERM,RING #10STUD CRIMP 16-2	4		
43	41	41	9107560-03	WIRE,BUSS,18AWG	A/R		
43	41	41	1317859-00	.39 5.0 W 5.0 % WW	1		R6
43	41	41	1300247-00	120.0 .25 W 5.0 % CC	1		R4

D	I	G	I	T	A	L	TITLE	H7476 REGULATOR	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5414240-0-DBP	C

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D CS 5413716-0-1 C 2



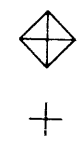
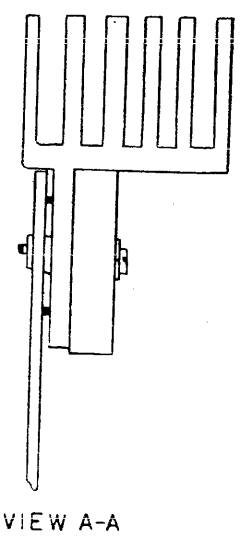
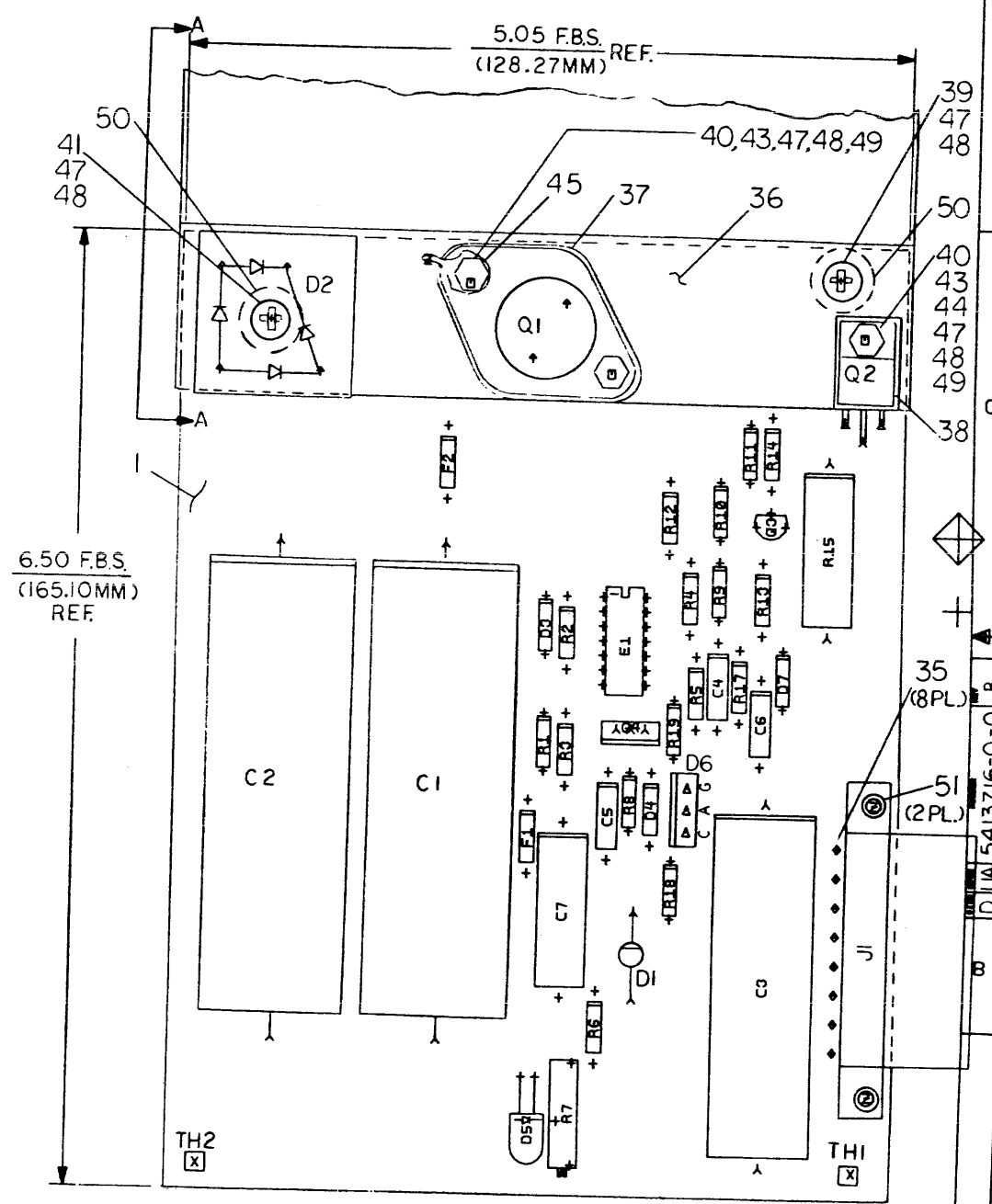
REV.	C
CHANGE NO.	5413716
BY	MLOOI
DATE	10/22/73
DESIGNED BY	ALFRED BARON
CHECKED BY	ALFRED BARON

DRN	13	FIRST USED ON	H7490
CHK'D	A. Baron	DATE	10/22/73
ENG.	A. Baron	DATE	10/22/73
PROJ. ENG.	A. Baron	DATE	10/22/73
PROD. ENGR.	A. Baron	DATE	10/22/73
NEXT HIGHER ASSY.		TITLE	+5V REGULATOR
B-DD-5413716-0	SIZE CODE	NUMBER	D CS 5413716-0-1
SCALE		REV.	C
SHEET	1	OF	1

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DLA 5413716-0-0 2 1

COMPONENT SIDE VIEW



NOTES:

STEP E	+ Y AXIS	STEP	TIMES
REPEAT	+ X AXIS	STEP	TIMES

CHANGE NO	REV

ETCH REV.	C
	C

SIGNATURES		DATE	digital
DRN. <i>P. J. Carson</i>		<i>12/22/79</i>	
CHK'D. <i>G. Carson</i>		<i>12/22/79</i>	
MECH. ENG. <i>G. Carson</i>		<i>12/22/79</i>	
PROJ. ENG. <i>G. Carson</i>		<i>12/22/79</i>	
TITLE			+5V REGULATOR
SCALE 2-1			
SHT. 1- OF 1		SIZE CODE	NUMBER
NEXT HIGHER ASSY. B-DD-5413716-0		D	UA 5413716-0-0 1 B

1 MS# 180325

PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5013715-0-0	5013715-00	DRILL & ETCH BD	1		
2	2		1303177-00	2.40 K .25 W 5.0 % CC	1		R1
3	3		1304870-00	6.81 K .25 W 1.0 % RN55D-F10	1		R2
4	4		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1		R3
5	5		1303155-00	21.50 K .25 W 1.0 % RN55D-F10	1		R4
6	6		1303047-00	464.0 .25 W 1.0 % RN55D-F10	1		R6
7	7		1309143-05	200.0 .75 W 10.0 % POT	1		R7
8	8		1001776-00	1 MFD 35V 10% S.TANT	1		C6
9	9		1301424-00	680.0 .25 W 5.0 % CC	2		R9,R8
10	10		1300295-00	330.0 .25 W 5.0 % CC	1		R10
11	11		1300197-00	33.0 .25 W 5.0 % CC	1		R11
12	12		1314397-00	9.53 K .25 W 1.0 % RN55D-F10	1		R12
13	13		1305128-00	5.62 K .25 W 1.0 % RN55D-F10	1		R13
14	14		1302411-00	511.0 .25 W 1.0 % RN55D-F10	1		R14
15	15		1310876-02	.06 5.0 W 3.0 % WW	1		R15
16	17		1303226-00	68.10 .25 W 1.0 % RN55D-F10	1		R19
17	18		1300391-00	1.50 K .25 W 5.0 % CC	1		R18
18	19		1016102-00	10,000 MFD 16V +75-10% AL EL	2		C1,C2
19	20		1010509-00	930 MFD 30V +75-10% AL EL	1		C3
20	21		1013466-11	.22 MFD 50V +80-20% Z5U CER	2		C4,C5
21	22		1004815-00	100 MFD 20V 10% S.TANT	1		C7
22	23		1112595-01	A114B PIV=200 I= 1A	1		D1
23	24		1110714-00	NSS3514 FWR@400 I=20A (TRW)	1		D2
24	25		1105873-00	4MS-1A21 VZ= 5.1 1% .400W	2		D3,D7
25	26		1105648-01	1N 4744A VZ= 15.0 5% 1W	1		D4
26	27		1110324-00	LED 1MCD@10MA PIV=3	1		D5
27	28		1510196-00	2N 5302/HSNPN 200WC SI 60 40 M	1		Q1
28	29		1510421-00	D 44C8 NPN 30WT SI 60 20	2		Q2,Q4
29	30		1509524-00	2N 3904 NPN 310MW SI 40 40 M	1		Q3
30	31		1505867-00	2N 4441 SCR@ 50V & 8A	1		D6

REVISION HISTORY		BASIC PART NO: 5413716		DRN:	A. OUELETTE	DATE:	23-FEB-79	D I G I T A L			
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	DANIEL	DATE:	08-JAN-80	TITLE	PARTS LIST		
AB	5413716-ML001	C	[A] 00					H7490			
			[B]	DES.ENG:	DANIEL PRINCIPE	DATE:	23-FEB-79				
			[C]	RESP.ENG.:	DANIEL PRINCIPE	DATE:	23-FEB-79	DOCUMENT NUMBER			
			[D]					SIZE	CODE	NUMBER	REV
			[E]	MFG.ENG.:	PETER BARTON	DATE:	08-JAN-80	K	PL	5413716-0-DBP	C
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[G]	D-UA-5413716-0-0		B-DD-5413716-0-0		Z0230C.PLS		19	
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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AUTOMATED BY PRTLST.CH(24)

PARTS LIST

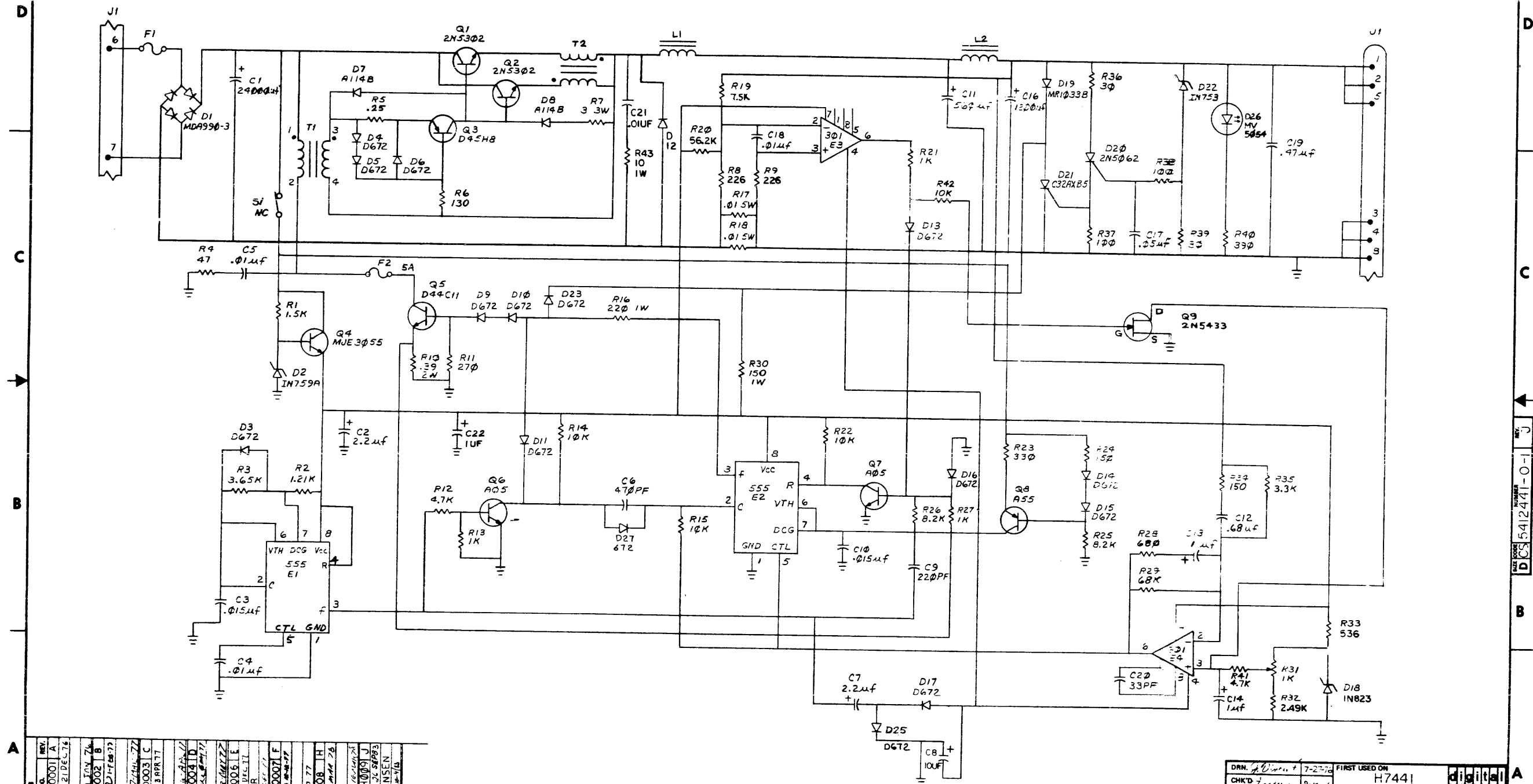
SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
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31	32		1912107-00	324 OF AMP,QUAD	1		E1
32	33		1210929-01	FUSE, SUB-MINI, 10.000A, 125V, A	2		F1,F2
33	34		1209340-00	MATE-N-LOK 8POS COMM HSG,SKT	1		J1
34	35		1209456-01	MATE-N-LOK SKT COMM PC MTG LOOSE	8		
35	36		1217031-00	HEAT SINK,EXTRUDED	1		
36	37		1213071-06	INSULATOR,RUBBER SILICONE	1		
37	38		1213071-02	INSULATOR,RUBBER SILICONE SM	1		
38	39		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	1		
39	40		9007793-01	SCREW,PAN,PHIL 6-32X 9/16 SS	3		
40	41		9008916-01	SCREW,PAN,PHIL 6-32X 15/16SS	1		
41	43		9008185-00	NUT,KEP , 6-32X1/4 AF	3		
42	44		9009769-00	WASHER, RECTANGULAR .405X.225X.0	1		
43	45		9009676-00	TERM LUG 1POS SOLDER	1		
44	46		1302956-00	196.0 .25 W 1.0 % RN55D-F10	1		R17
45	47		9007801-00	WASHER, LOCK, S.S. #6	5		
46	48		9006656-00	WASHER, FLAT, .312 O.D. X .156 I	5		
47	49		9006707-00	WASHER, NYLON, FLAT #6 .312 OD	3		
48	50		1214789-00	INSERT,THREADED 6-32 ,BRASS,ELEC	2		
49	51		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	2		
50	52		1305143-00	825.0 .25 W 1.0 % RN55D-F10	1		R5

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							H7490		K	PL	5413716-0-DBP	C

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DIGITAL EQUIPMENT CORPORATION
5412441-0-1 J



REV.	DATE	BY	CHKD	DESCRIPTION
1	7-27-76	R. DAY	R. DAY	INITIAL DESIGN
2	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
3	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
4	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
5	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
6	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
7	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
8	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
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10	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
11	8-10-76	R. DAY	R. DAY	REVISED FOR MANUFACTURE
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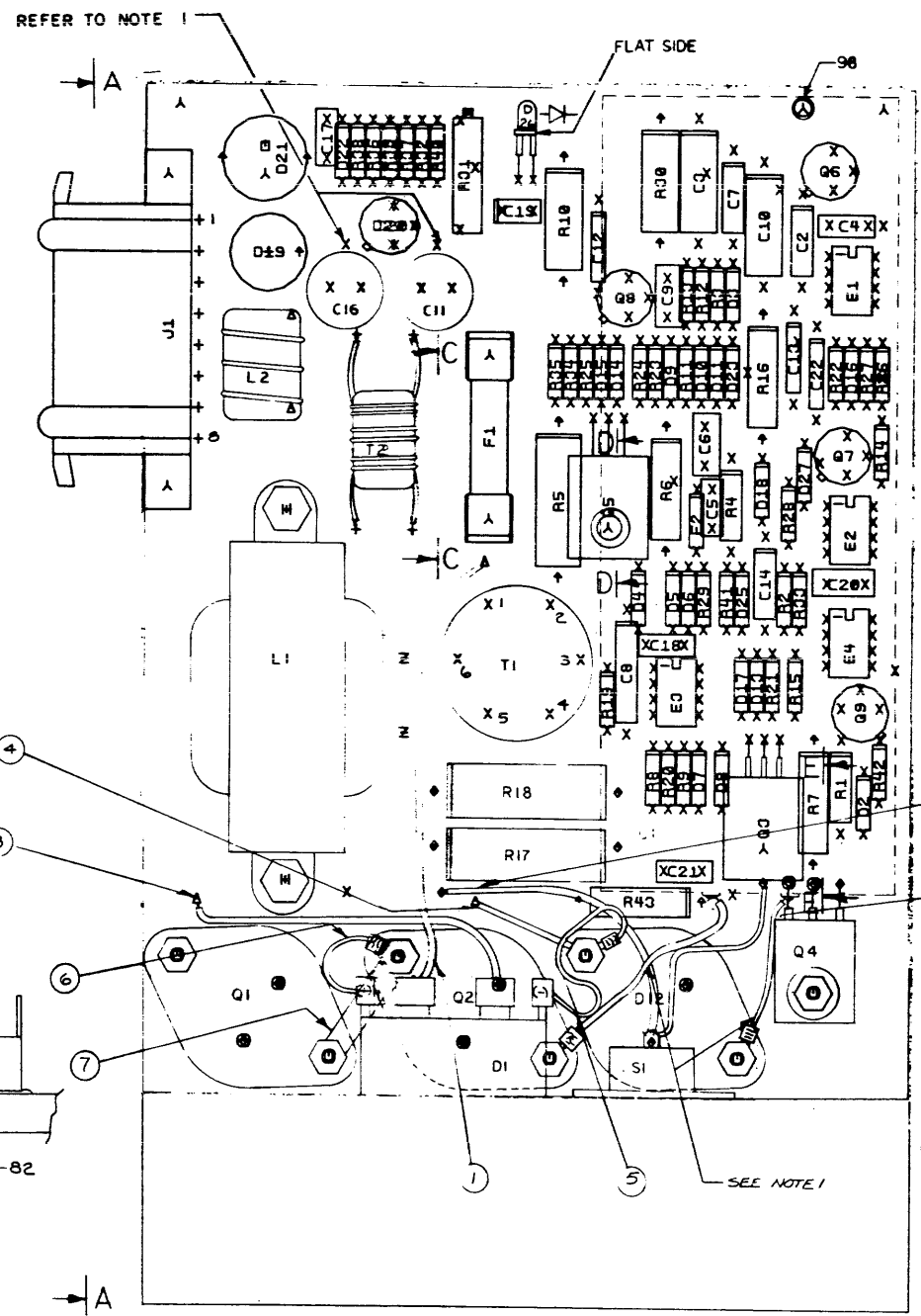
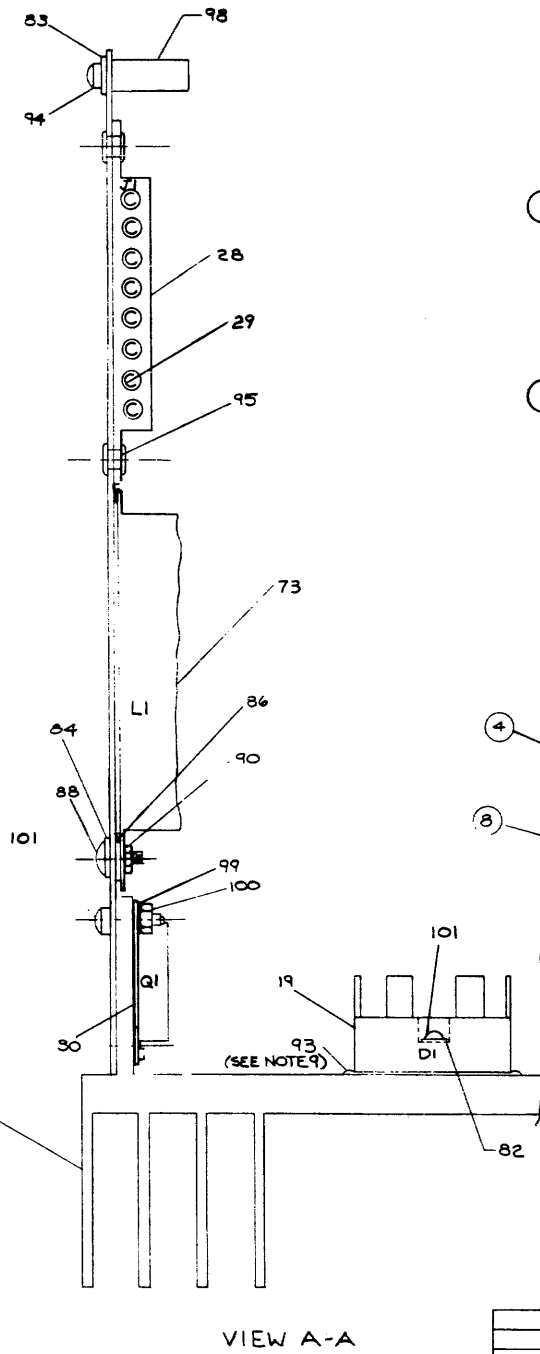
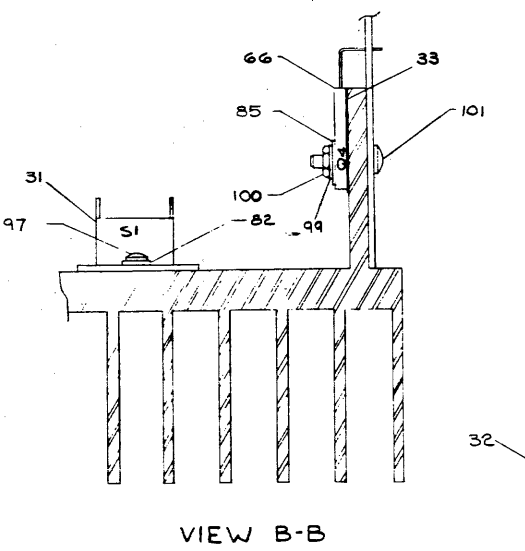
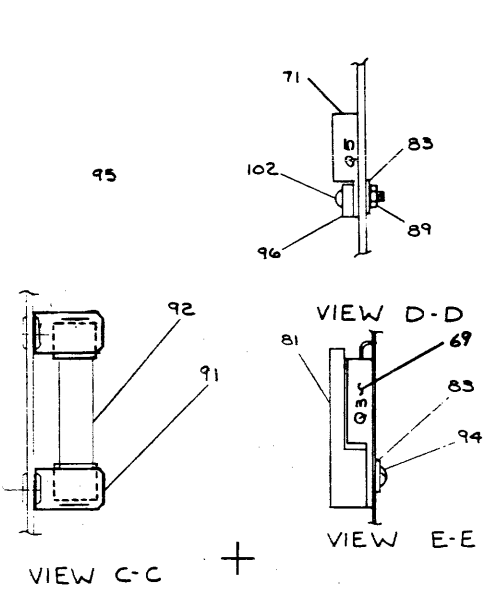
DRN: 7-27-76	FIRST USED ON: H7441
CHK'D: R. DAY	TITLE: +5V 32 AMP REGULATOR
ENG: R. DAY	SCALE: 1 OF 1
PROJ. ENG: R. DAY	SHEET: 1 OF 1
PROD. R. DAY	SIZE CODE: D
NEXT HIGHER ASSY:	NUMBER: 5412441-0-1
	REV. J
	DIST. SHO

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WIRE & BUS STRAP RUNS

NO.	FROM	TO	WIRE OR BUS LENGTH
①	FEEDTHRU AT F1	TERMINAL D1	#14 AWG 4" SEE NOTE 3
②	S1	FEEDTHRU SHOWN	#18 AWG 3"
③	S1	FEEDTHRU SHOWN	#18 AWG 2.5"
④	D12	FEEDTHRU SHOWN	DEC PT #121407-05 SEE NOTE 4
⑤	TERMINAL D1	D12	#14 AWG 3" SEE NOTE 5
⑥	TERMINAL D1	Q2	#14 AWG 2" SEE NOTE 6
⑦	Q2	Q1	DEC PT #121407-04 SEE NOTE 7
⑧	TERMINAL D1	FEEDTHRU SHOWN	#14 AWG 2.75" SEE NOTE 2

NOTES: 1. MOUNT WIRES PER IA DRAWING NO. IA 7013274. RED WIRE TO CASE Q2 AND POSITIVE TERMINAL C1 & BLACK WIRE TO CASE D12 AND NEGATIVE TERMINAL C1.
 2. WIRE RUN ② IS SOLDERED AT D1.
 3. WIRE RUN ① IS SOLDERED AT D1.
 4. STRAP ④ (ITEM #26) IS SOLDERED AT FEEDTHROUGH SHOWN AND MOUNTED UNDER RING LUG OF D12.
 5. WIRE RUN ⑤ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF D12.
 6. WIRE RUN ⑥ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF Q2.
 7. BUS STRAP ⑦ (ITEM #25) IS MOUNTED UNDER RING LUG OF Q2 AND ON CASE OF Q1.
 8. TORQUE HARDWARE ON Q1, Q2, Q4 AND D12 TO 1/2 INCH-LBS. FROM NUT SIDE ONLY. TORQUE OTHER HARDWARE TO DEC STD VALUES.
 9. APPLY THERMAL COMPOUND TO D1 (ITEM #9) ONLY.



NOTES:
 1. INDICATED DRILL POINTS AT C11 AND C16 SHOULD NOT BE USED FOR DRILL ALIGNMENT DURING MANUFACTURE. THESE OVERSIZED PADS WILL NOT CENTER WITH DRILL BORING.

CHANGE NO	REV	DATE	BY	CHK'D	APP'D
1	H	1-1-77
2	K	1-1-77

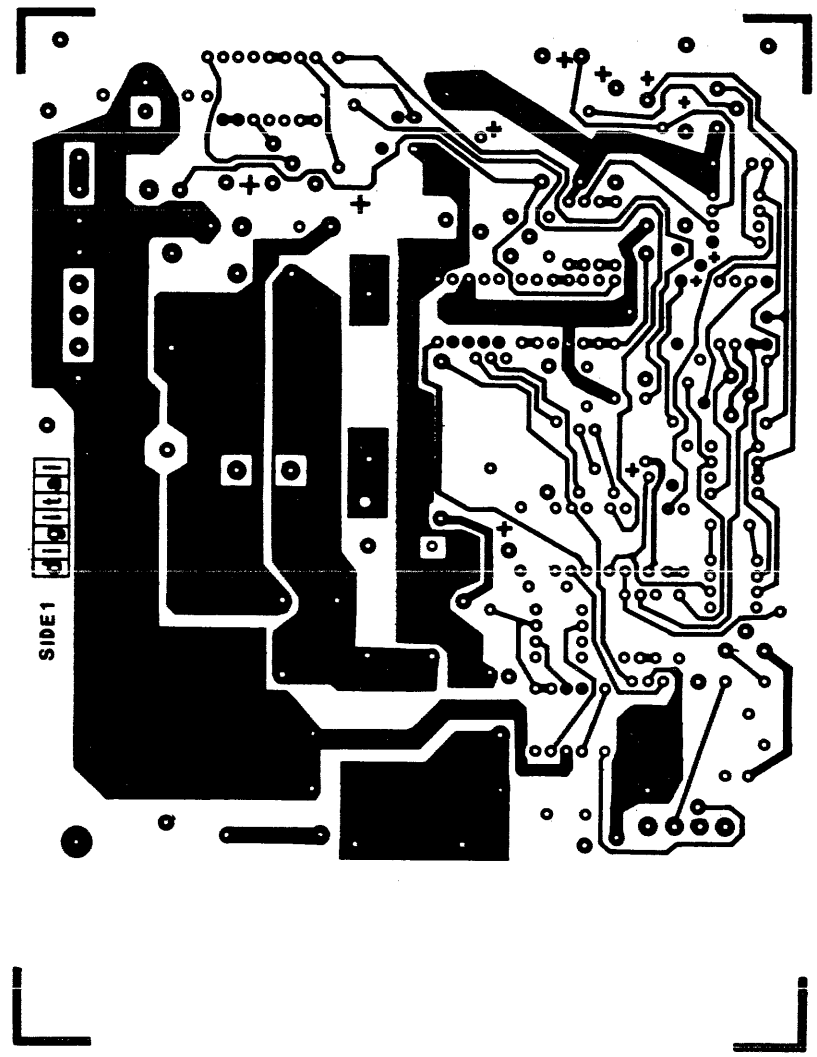
ETCH REV. B
 P.C. DESIGN DATA BASE REV. B-P4

SIGNATURES	DATE	TITLE
DRW. Burt C. H...	5-20-77	digital
CHK'D. J. ...	3-2-77	
ENG. ...	1-1-77	
PROJ. ENG. ...	1-1-77	
PROD. ...	1-1-77	

SCALE 2/1
 SH. 1 OF 3
 NEXT HIGHER ASSY: B-DD-5412441-0

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DUA 5412441-0-0 K 2



SIDE 1

DUA 5412441-0-0 K

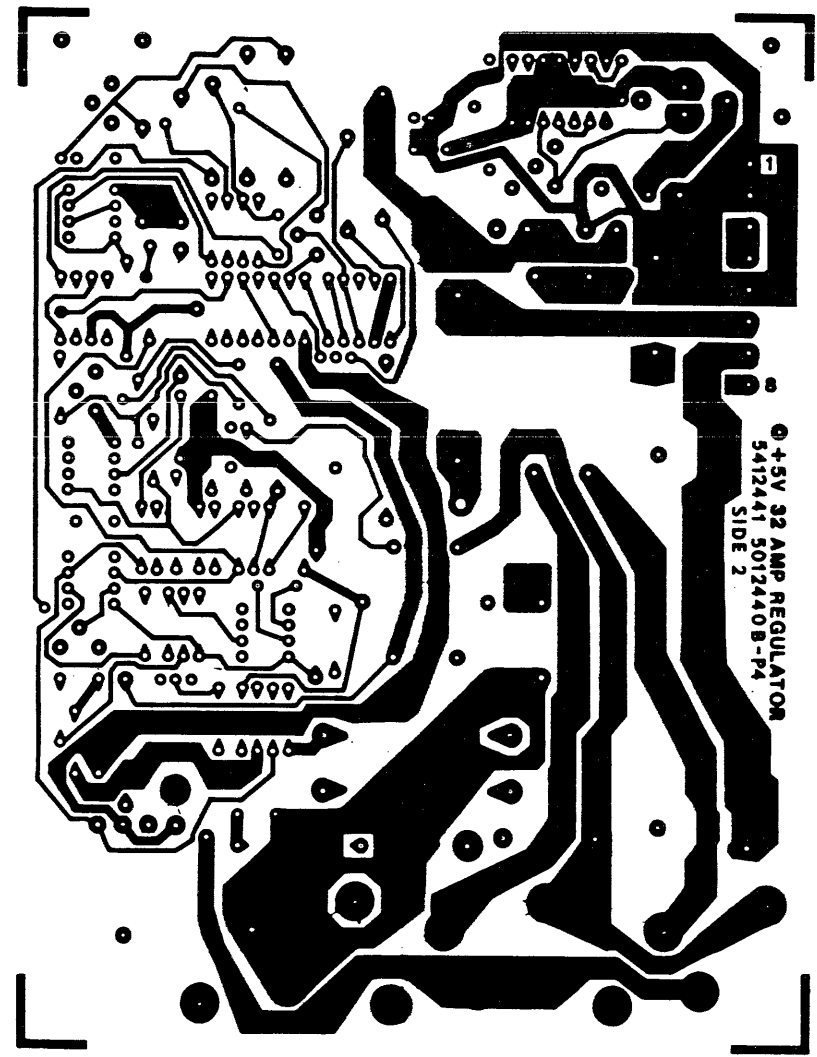
REVISIONS		
CHK	CHANGE NO.	REV.

+5V, 32 AMP, REGULATOR		REV. NO.	REV.
2/1	SHEET 2 OF 3	DUA 5412441-0-0	K

SHO 1

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D UA 5412441-0-0 K 2



+5V 32 AMP REGULATOR
5412441 50124408-P4
SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE: +5V 32AMP REGULATOR
SCALE: 2/1
SHEET 3 OF 3
D UA 5412441-0-0 K

8 7 6 5 4 3 2 1

D C B A

D C B A

8 7 6 5 4 3 2 1

SHO

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	D-MD-5012440-0-0	5012440-00	5412441	1	
2	2		1000009-00	33.0 MMF 100V 5%200PPM MICA	1	C20
3	3		1000021-00	220.0 MMF 100V 5%200PPM MICA	1	C9
4	4		1001610-01	.01 MFD50/100V +80-20% DISC	4	C4,C5,C18,C21
5	5		1002627-00	2.2MFD 20V 10% S.TANT	2	C2,C7
6	6		1004813-00	10 MFD 20V 10% S.TANT	1	C8
7	7		1010279-00	.47 MFD 25V 20% CER	1	C19
8	8		1010646-00	.015 MFD 50V 2% M.POLYCARB	2	C3,C10
9	9		1010702-00	24,000 MFD 50V +75-10% AL EL	1	C1
10	10		1012607-00	560 MFD 20V+100-10% AL EL	1	C11
11	11		1012607-01	1200 MFD 6.3V+100-10% AL EL	1	C16
12	12		1009964-00	.68 MFD 35V 10% S.TANT	1	C12
13	13		1001776-00	1 MFD 35V 10% S.TANT	3	C13,C14,C22
14	14		1000024-00	470.0 MMF 100V 5%200PPM MICA	1	C6
15	15		1105508-00	VZ= 6.2 5% 400 MW 1N823	1	D18
16	16		1102808-00	*** THIS ITEM IS NOT USED ***	-	
17	17		1103341-00	PIV= 300 IO= 3.00A	1	D19
18	18		1105275-00	PIV= 60 IO=300 MA -15NS	15	D3-D6,D9-D11,D13-D17,D23,D25,D27
19	19		1110051-00	RECT. ASSY PIV= 200 IO=25.00A	16	D1
20	20		1110324-00	LED 1MCD@10MA PIV=3	1	D26
21	21		1110836-00	VZ= 12.0 5% 400 MW 1N759A	1	D2
22	22		1110968-00	SCR PIV= 100 IO= .80A 2N5062	1	D20
23	23		1112595-01	PIV= 200 IO= 1.00A AXIAL	2	D7,D8
24	24		1113496-00	RECT,ULTRA FAST PIV= 100 IO=30.0	1	D12
25	25		1214074-04	STRAP,THERMAL 2 HOLE	1	
26	26		1214074-05	STRAP,THERMAL LUG .815	1	
27	27		1209070-00	FUSE, SUB-MINI, 5.000A, 125V, R	1	F2
28	28		1209340-00	MATE-N-LOK 08SKT(1X08) HSG	1	J1
29	29		1209456-01	MATE-N-LOK 01SKT 20-18AWG .0870D	8	
30	30		1213071-02	INSULATOR,RUBBER SILICONE SM	3	

REVISION HISTORY			BASIC PART NO: 5412441								
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	D.SIREEN	DATE:	10-MAR-78	D I G I T A L			
SC	00008	J	SECTION VARIATION INDEX	CHK'D:	F.GAROFALO	DATE:	10-MAR-78	TITLE PARTS LIST			
G.C.	5412441-SH009	K	[A] 00					+5V 32 AMP REGULATOR			
			[B]	DES.ENG:	R.DAY	DATE:	10-MAR-78	DOCUMENT NUMBER			
			[C]					SIZE CODE NUMBER REV			
			[D]	RESP.ENG.:	R.DAY	DATE:	10-MAR-78				
			[E]								
			[F]	MFG.ENG.:	R.B.KING	DATE:	10-MAR-78	K	PL	5412441-0-DBP	K
			[H]	ASSEMBLY NUMBER:	D-UA-5412441-0-0	TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[J]					Z7929K.PLS		8	
			[K]								
			[L]								
			[M]								
			[N]								

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AUTOMATED BY PRTLST.1D(11)

PARTS LIST

SHEET A2 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1212787-00	THERMOSTAT,08212,C0182,NC	1	S1
32	32		1210737-02	HEAT SINK,EXTRUSION 5.125X2.62	1	
33	33		1213071-06	INSULATOR,RUBBER SILICONE	1	
34	34		1312626-00	2.49 K .25 W 1.0 * RN55D-F10	1	R32
35	35		1300229-00	100.0 .25 W 5.0 * CF	2	R37,R38
36	36		1300250-00	150.0 .25 W 5.0 * CF	2	R24,R34
37	37		1305322-00	7.50 K .25 W 1.0 * RN55D-F10	1	R19
38	38		1300295-00	330.0 .25 W 5.0 * CF	1	R23
39	39		1301424-00	680.0 .25 W 5.0 * CF	1	R28
40	40		1301327-00	68.0 K .25 W 5.0 * CF	1	R29
41	41		1300439-00	3.30 K .25 W 5.0 * CF	1	R35
42	42		1310219-00	.25 4.0 W 1.0 * WW	1	R5
43	43		1300248-00	130.0 1.0 W 5.0 * CC	1	R6
44	44		1302644-00	226.0 .25 W 1.0 * RN55D-F10	2	R8,R9
45	45		1300277-00	220.0 1.0 W10.0 * CC	1	R16
46	46		1300309-00	390.0 .25 W 5.0 * CF	1	R40
47	47		1312922-00	536.0 .25 W 1.0 * RN55D-F10	1	R33
48	48		1300365-00	1.0 K .25 W 5.0 * CF	3	R13,R21,R27
49	49		1300394-00	1.50 K .50 W 5.0 * CF	1	R1
50	50		1300447-00	4.70 K .25 W 5.0 * CF	2	R12,R41
51	51		1300479-00	10.0 K .25 W 5.0 * CF	4	R14,R15,R22,R42
52	52		1301695-00	47.0 .50 W 5.0 * CF	1	R4
53	53		1301972-00	270.0 .25 W 5.0 * CF	1	R11
54	54		1312747-00	56.20 K .25 W 1.0 * RN55D-F10	1	R20
55	55		1302751-00	30.0 .25 W 5.0 * CF	2	R36,R39
56	56		1302871-00	1.21 K .25 W 1.0 * RN55D-F10	1	R2
57	57		1303179-00	8.20 K .25 W 5.0 * CF	2	R25,R26
58	58		1305337-00	3.65 K .25 W 1.0 * RN55D-F10	1	R3
59	59		1309143-07	1.0 K .75 W10.0 * POT	1	R31
60	60		1310868-00	.39 2.0 W 5.0 * WW	1	R10
61	61		1313712-00	.01 5.0 W 3.0 * WW	2	R17,R18
62	62		1312682-00	3.0 3.0 W 5.0 * WW	1	R7
63	63		1300256-00	150.0 1.0 W10.0 * CC	1	R30
64	64		1300171-00	10.0 1.0 W 5.0 * CC	1	R43
65	65		1510196-00	2N 5302/HSNPN 200WC SI 60 40 M	2	Q1,Q2
66	66		1510555-00	MJE3055 NPN 90WC SI 60 20 Y	1	Q4
67	67		1510705-00	XA 05 NPN 500MW SI 60 50 P	2	Q6,Q7
68	68		1510706-00	XA 55 PNP 500MW SI 60 50 P	1	Q8
69	69		1510708-00	D 45H8 PNP 50WT SI 60 60 Y	1	Q3
70	70		1510928-00	SCR PIV= 100 IO=25.00A	1	D21
71	71		1512790-00	D 44C12 NPN 30W SI	1	Q5
72	72		1511686-00	DEC5433 FET N 350MW 10 25 1A	1	Q9
73	73		1612584-00	50 UH 30A	1	L1
74	74		1612592-00	PULSE XFMR,RATIO 4:1	1	T1
75	75		1613713-00	CHOKER, 5 UH 32A	1	L2
76	76		1613714-00	2 UH 20A	1	T2
77	77		1910282-00	301AN OP AMP	2	E3,E4
78	78		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							+5V 32 AMP REGULATOR		K	PL	5412441-0-DBP	K

AUTOMATED BY PRTLST.1D(11)

PARTS LIST

SHEET A3 OF A3

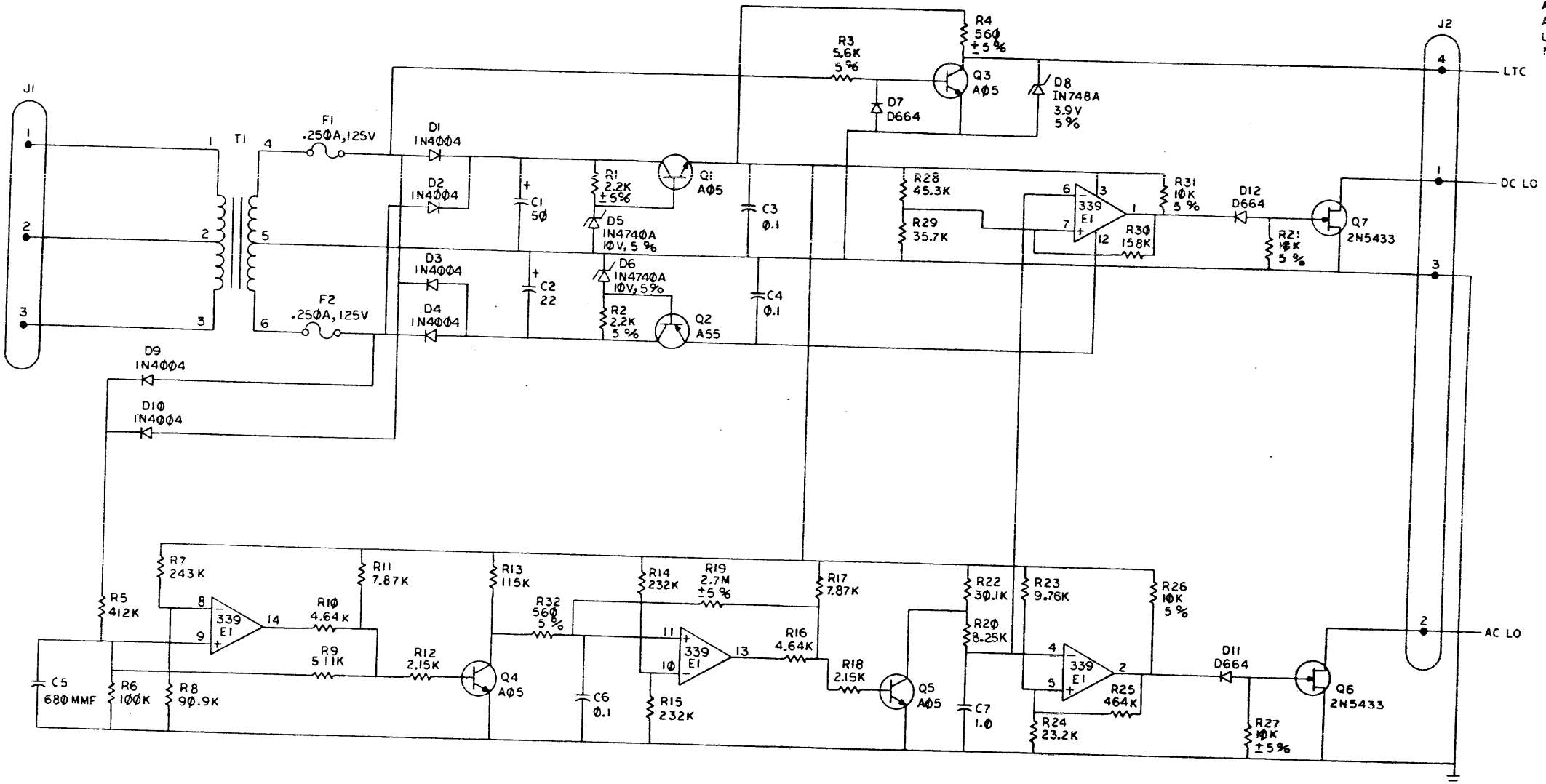
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79		7013274-00	JUMPER CAP TRAWS	1	
80	80		7013274-01	JUMPER CAP TRAWS	1	
81	81		7414765-00	HEATSINK	1	
82	82		9006633-00	WASHER, LOCK INTERNAL STEEL	3	
83	83		9008172-00	WASHER, FLAT SST	3	
84	84		9006660-00	WASHER, FLAT SST	2	
85	85		9006653-00	WASHER, FLAT STEEL	1	
86	86		9008082-00	WASHER, FLAT FIBRE	2	
87	87		9007927-00	TERM, RING #5, 6STUD CRIMP 14-1	2	
88	88		9006037-03	SCREW, MACH TRUSS PHIL 8-	2	
89	89		9006557-00	NUT, HEX EXT TOOTH LCKWSHR 4-40	1	
90	90		9006563-00	NUT, HEX EXT TOOTH LCKWSHR 8-32	2	
91	91		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOU	2	
92	92		9007226-00	FUSE, REG BLO 15 A, 32V GLASS	1	F1
93	93		9008268-00	COMPOUND, THERMAL JOINT	A/R	
94	94		9006012-01	SCREW, MACH PAN PHIL 4-	2	
95	95		9009000-00	EYELET, ROLLED 0.1210DX0.156	4	
96	96		9009769-00	WASHER, RECTNGLR STEEL	1	
97	97		9006021-01	SCREW, MACH PAN PHIL 6-	2	
98	98		9007660-00	SPACER, THREADED RND PHEN 4-4	1	
99	99		9007801-00	WASHER, HELICAL SPLIT SST	7	
100	100		9008957-00	NUT, HEX 6-32X .246AF SS/N	7	
101	101		9007793-01	SCREW, MACH PAN PHIL 6-	8	
102	102		9006010-01	SCREW, MACH PAN PHIL 4-	1	
103	103		9107360-99	WIRE, 18AWG(19/30)IPVC 150V	A/R	
104	104		9107370-00	WIRE, 14AWG19/.0147IPVC 150V	A/R	
105	105		1009678-00	.047 MFD 16V +80-20%Y5T DISC	1	C17
106	106		1102421-01	VZ= 6.2 1% 400 MW 1N753A	1	D22

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							+5V 32 AMP REGULATOR		K	PL	5412441-0-DBP	K

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D 5414192-0-1 B

NOTE:
ALL RES. 1/4W ± 1%,
ALL CAP VAL IN µF,
UNLESS OTHERWISE
NOTED.



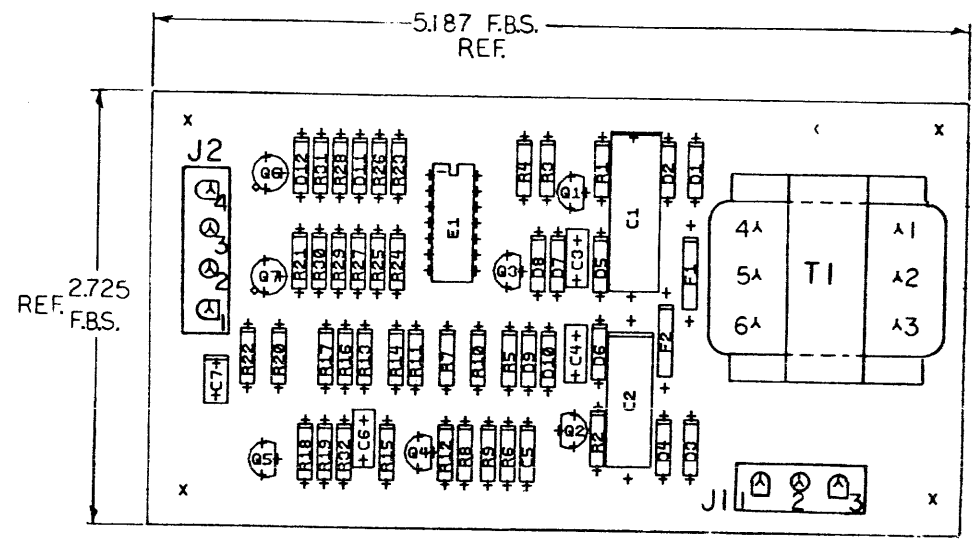
REV.	CHG.	NO.	DATE	BY
1		5414192-M1001	12-11-79	ALFRED FARON
2		5414192-M1001	7-27-79	ALFRED FARON

DRN. <i>[Signature]</i>	12-11-79	FIRST USED ON	H7422
CHK'D. <i>[Signature]</i>	12-11-79	TITLE	AC/DC-LO CIRCUITRY
ENG. <i>[Signature]</i>	12-11-79	SIZE	D
PROJ. ENG. <i>[Signature]</i>	12-11-79	CODE	5414192-0-1
PROD. <i>[Signature]</i>	12-11-79	NUMBER	1
NEXT HIGHER ASSY.		REV.	B
B-DD-5414192-C		SCALE	
SHEET 1 OF 1		DIST.	

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8 0-0-2614192-0 2 1

COMPONENT SIDE VIEW



D
C
B
A

D
C
B
A

NOTES:

STEP 1	→ Y AXIS	STEP 2	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHK CHANGE NO	REV	DATE
544192	B	10-26-79
JAL FARM 202 x 11 7-28-80		

ETCH REV. B

SIGNATURES		DATE	digital
DRN. Andy Ouellet		10-22-79	
CHK'D. [Signature]		10-26-79	TITLE AC/DC LOW BRD.
MECH. ENG. G. Basso		12-6-79	
PROJ. ENG. G. Basso		12-6-79	
PROD. Peter Bontal / S. Basso		12-20-79	
SCALE 2/1	OF	SIZE CODE	NUMBER
SHT. 2	OF 1	d UA 5414192-0-0	REV B
NEXT HIGHER ASSY. B-00-5414192-0			

8 7 6 5 4 3 2 1 MS#180643

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1		D-MD-5014191-0-0	5014191-00	DRILL + ETCH BOARD	1		
2			1002433-00	22 MFD 35V 20% S.TANT	1		C2
3			1010978-36	.1 MFD 50V 10% CER	3		C3, C4, C6
4			1013466-08	680.0 MMF 50V 10% X7R CER	1		C5
5			1014905-00	1 MFD 50V 10%	1		C7
6			1105796-00	1N 4004 PIV=400 I= 1A D041 SP	6		D1-D4, D9, D10
7			1114377-00	1N 4740A VZ= 10.0 5% 1W	2		D5, D6
8			1100114-00	D 664 QS\75PCB PIV= 25V SP	3		D7, D11, D12
9			1100122-00	1N 748A VZ= 3.9 5%	1		D8
10			1210929-04	FUSE, SUB-MINI .250A, 125V. A	2		F1, F2
11			1212297-01	MATE-N-LOK 4PIN UNIV HEADER	1		J2
12			1212297-03	MATE-N-LOK 3PIN UNIV HEADER	1		J1
13			1510705-00	XA 05 NPN 500MW SI 60 50 P	4		Q1, Q3-Q5
14			1510706-00	XA 55 PNP 500MW SI 60 50 P	1		Q2
15			1511686-00	DECS433 FET N 350MW 10 25 1A	2		Q6, Q7
16			1612342-00	XFMR P=AB S=48CT	1		T1
17			1912108-00	339 VOLT CMPRTR, QUAD	1		U1
18			1300417-00	2.20 K .25 W 5.0 % CC	2		R1, R2
19			1301874-00	5.60 K .25 W 5.0 % CC	1		R3
20			1301890-00	560.0 .25 W 5.0 % CC	2		R4, R32
21			1300479-00	10.0 K .25 W 5.0 % CC	4		R21, R26, R27, R31
22			1309680-00	2.70 M .25 W 5.0 % CC	1		R19
23			1317183-04	412.0 K .25 W 1.0 % RN55D-F10	1		R5
24			1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1		R6
25			1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1		R7
26			1311320-00	90.90 K .25 W 1.0 % RN55D-F10	1		R8
27			1305323-00	511.0 K .25 W 1.0 % RN55D-F10	1		R9
28			1304856-00	4.64 K .25 W 1.0 % RN55D-F10	2		R10, R16
29			1317183-01	7.87 K .25 W 1.0 % RN55D-F10	2		R11, R17
30			1311653-00	2.15 K .25 W 1.0 % RN55D-F10	2		R12, R18

REVISION HISTORY		BASIC PART NO: 5414192		DRN: M. QUADRI		DATE: 6-27-79		D I G I T A L	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	COSTA L.	DATE:	07-DEC-79	TITLE PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG:	PL BARON	DATE:	07-DEC-79	DOCUMENT NUMBER	
AB	5414192-ML001	B	[A] 00	RESP.ENG.:	AL BARON	DATE:	07-DEC-79	SIZE:	CODE: NUMBER
			[B]	MFG.ENG.:	PETER BAFTON	DATE:	07-DEC-79	K	PL 5414192-0-DBP
			[C]	ASSEMBLY NUMBER:	D-UA-5414192-0-0	TOP DOCUMENT NUMBER:	B-DD-5414192-0-0	FILE NAME:	EDIT #
			[D]					20577B.PLS	13
			[E]	"THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION"					
			[F]						
			[G]						
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			[N]						

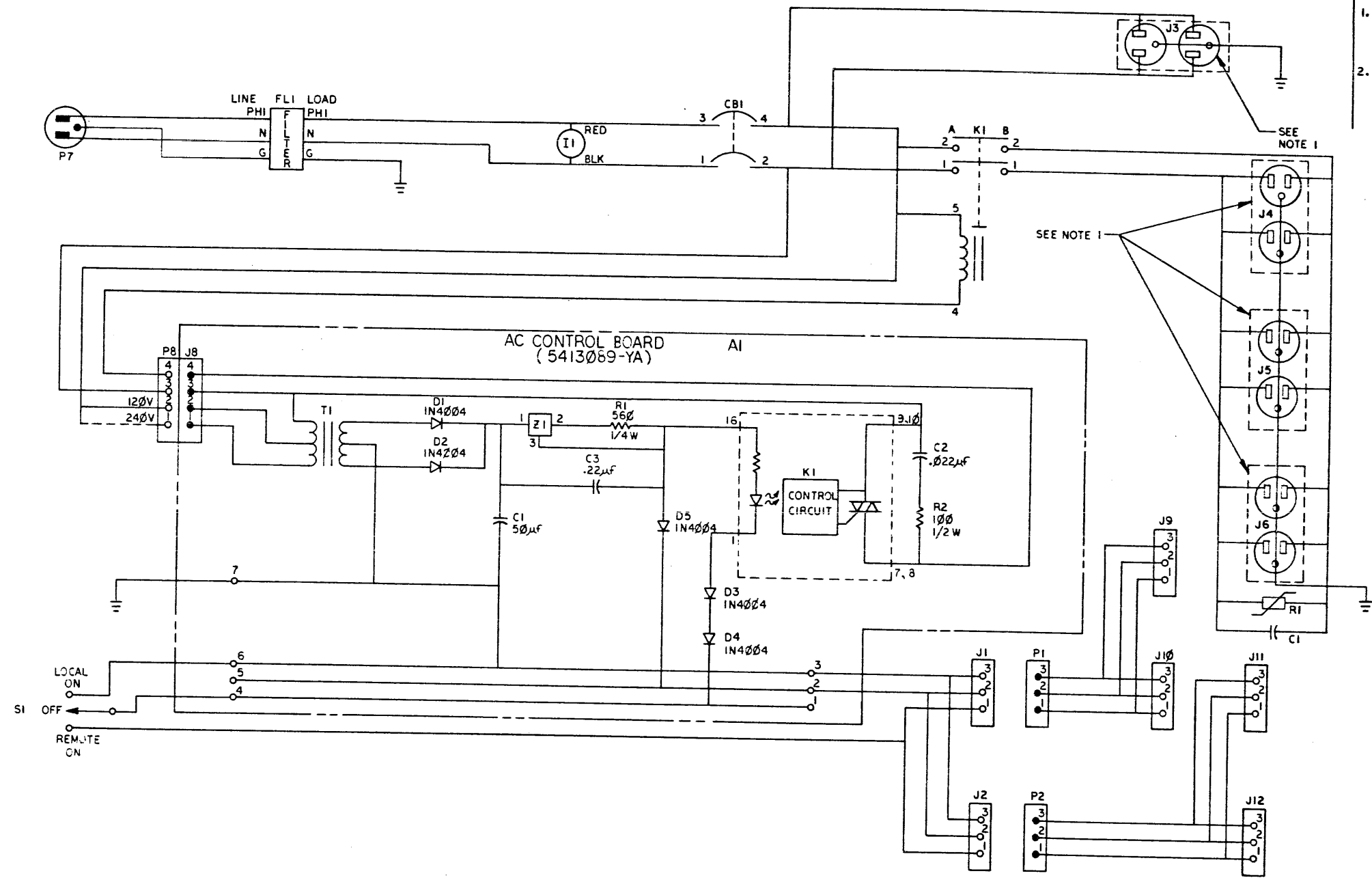
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				00		
31	31	1317183-03	115.0 K .25 W 1.0 % RN55D-F10	1		R13
32	32	1305424-00	232.0 K .25 W 1.0 % RN55D-F10	2		R14,R15
33	33	1309414-00	9.76 K .25 W 1.0 % RN55D-F10	1		R23
34	34	1313841-00	23.20 K .25 W 1.0 % RN55D-F10	1		R24
35	35	1303043-00	464.0 K .25 W 1.0 % RN55D-F10	1		R25
36	36	1316443-00	45.30 K .25 W 1.0 % RN55D-F10	1		R28
37	37	1305421-00	35.70 K .25 W 1.0 % RN55D-F10	1		R29
38	38	1314990-00	158.0 K .25 W 1.0 % RN55D-F10	1		R30
39	39	1305325-00	8.25 K .25 W 1.0 % RN55D-F10	1		R20
40	40	1311594-00	30.10 K .25 W 1.0 % RN55D-F10	1		R22
41	41	A-PS-3700537-0-0	3700537-00 KIT OPTION TM78 POWER SUPPLY	A/R		
42	42	1000080-00	50 MFD 50V +75-10% AL EL	1		C1

43 NOTE: *FOR FIELD SERVICE SPARES ORDER PACKAGING MATERIAL PER A-SP-3700537-0-0

D	I	G	I	T	A	L	TITLE	AC/DC-LO CIRCUITRY	SECTION 9 OF 9	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5414192-0-DBP	B

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- NOTES:**
1. RECEPTACLES J3-J6 ARE PICTORIALLY SHOWN FOR VARIATION 872-A ONLY. FOR VARIATIONS B & C, SEE PARTS LIST.
 2. RECEPTACLES J3-J6 ON SHEET 2 ARE PICTORIALLY SHOWN FOR VARIATION 872-D ONLY. FOR VARIATION E, SEE PARTS LIST.

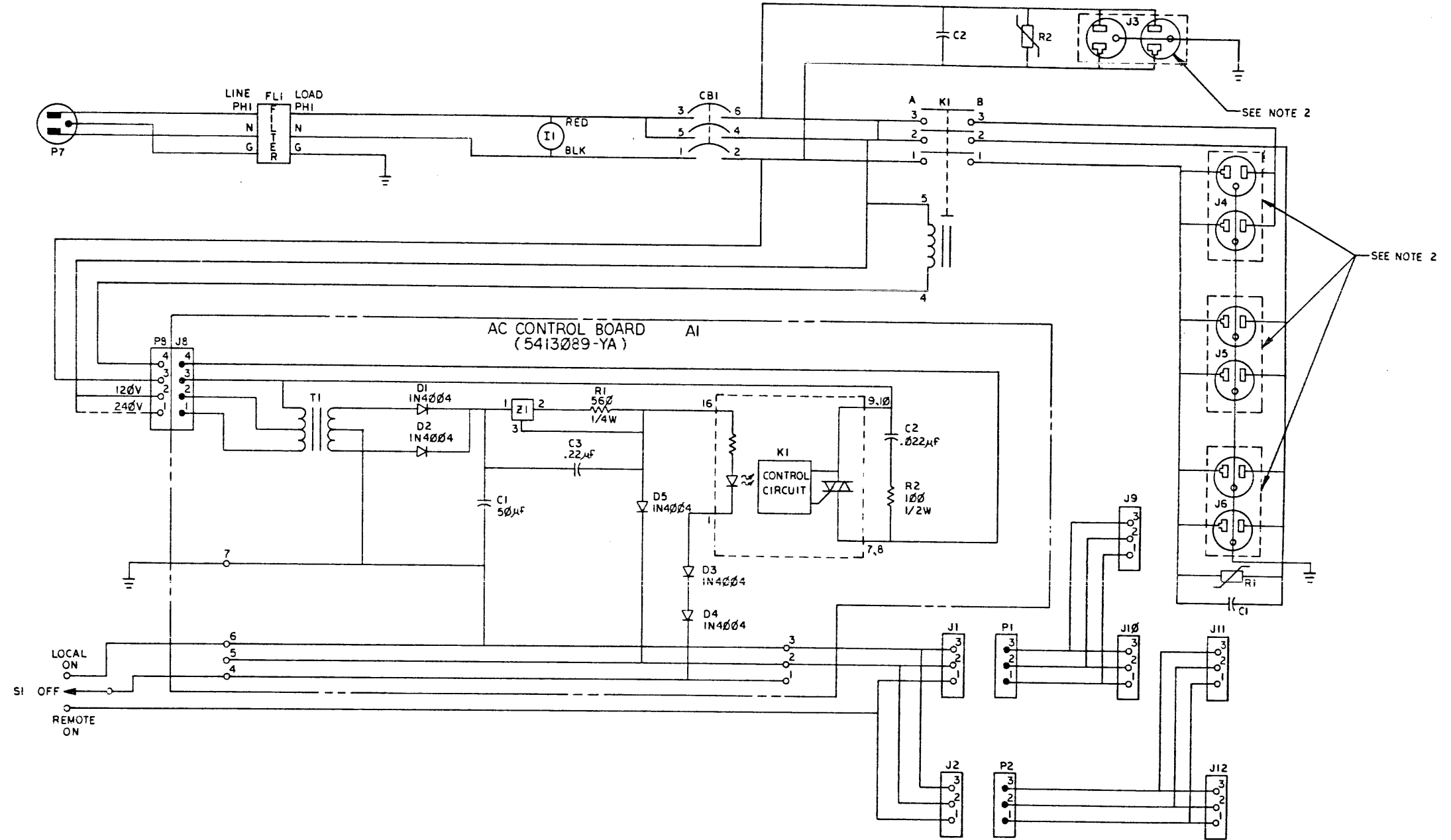


FOR VARIATIONS 872-A, B & C ONLY

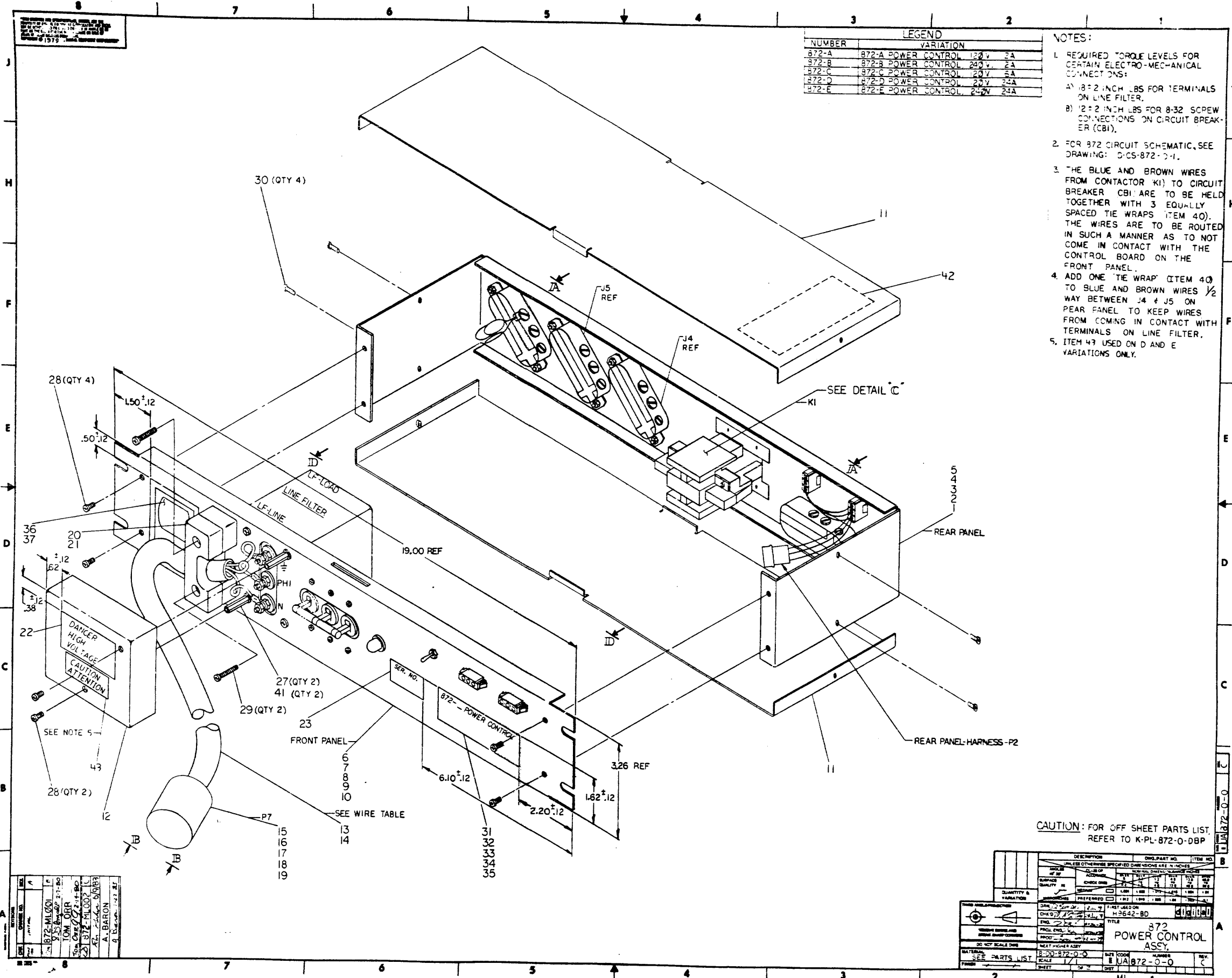
REV.	CHG. NO.	INITIAL	DATE
A			
B			

872 ML001
2-7-80
JOM ORK
10m Orig. G. 2-19-80

DRN. <i>D. Sullivan</i>	FIRST USED ON	872	digital
CHK'D	TITLE	POWER CONTROL (872)	
ENG. <i>Sullivan</i>	PROD. ENG. <i>Sullivan</i>		
NEXT HIGHER ASSY.			
E-UA-872-C-0	SIZE CODE	NUMBER	REV.
SCALE NONE	D CS	872-0-1	B
SHEET 1 OF 2	DIST.		



REVISIONS		
CHK	CHANGE NO.	REV.



NUMBER	VARIATION
872-A	872-A POWER CONTROL 120 V 2A
872-B	872-B POWER CONTROL 240 V 2A
872-C	872-C POWER CONTROL 220 V 2A
872-D	872-D POWER CONTROL 220 V 24A
872-E	872-E POWER CONTROL 240V 24A

- NOTES:
1. REQUIRED TORQUE LEVELS FOR CERTAIN ELECTRO-MECHANICAL CONNECTIONS:
 - A) 18 ± 2 INCH LBS FOR TERMINALS ON LINE FILTER.
 - B) 12 ± 2 INCH LBS FOR 8-32 SCREW CONNECTIONS ON CIRCUIT BREAKER (CBI).
 2. FOR 872 CIRCUIT SCHEMATIC, SEE DRAWING: DCS-872-0-1.
 3. THE BLUE AND BROWN WIRES FROM CONTACTOR (K1) TO CIRCUIT BREAKER (CBI) ARE TO BE HELD TOGETHER WITH 3 EQUALLY SPACED TIE WRAPS (ITEM 40). THE WIRES ARE TO BE ROUTED IN SUCH A MANNER AS TO NOT COME IN CONTACT WITH THE CONTROL BOARD ON THE FRONT PANEL.
 4. ADD ONE TIE WRAP (ITEM 40) TO BLUE AND BROWN WIRES 1/2 WAY BETWEEN J4 & J5 ON REAR PANEL TO KEEP WIRES FROM COMING IN CONTACT WITH TERMINALS ON LINE FILTER.
 5. ITEM 43 USED ON D AND E VARIATIONS ONLY.

REV	DESCRIPTION	DATE	BY	CHKD
1	872-ML001	2-7-50		
2	LOW VOLT			
3	872-ML002	5/6/53		
4	A. BARON			

CAUTION: FOR OFF SHEET PARTS LIST, REFER TO K-PL-872-0-DBP

DESCRIPTION	QTY	PART NO.	ITEM NO.
872-ML001	1		
872-ML002	1		
872-ML003	1		
872-ML004	1		
872-ML005	1		
872-ML006	1		
872-ML007	1		
872-ML008	1		
872-ML009	1		
872-ML010	1		
872-ML011	1		
872-ML012	1		
872-ML013	1		
872-ML014	1		
872-ML015	1		
872-ML016	1		
872-ML017	1		
872-ML018	1		
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872-ML020	1		
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872-ML031	1		
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872-ML092	1		
872-ML093	1		
872-ML094	1		
872-ML095	1		
872-ML096	1		
872-ML097	1		
872-ML098	1		
872-ML099	1		
872-ML100	1		

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION				
					A	B	C	D	E
1	1	E-AD-7017019-0-0	7017019-00	REAR PANEL ASSY.	1	-	-	-	-
2	2	E-AD-7017019-0-0	7017019-01	872-B REAR PANEL ASSY	-	1	-	-	-
3	3	E-AD-7017019-0-0	7017019-02	872-C REAR PANEL ASSY	-	-	1	-	-
4	4	E-AD-7017019-0-0	7017019-03	872-D REAR PANEL ASSY	-	-	-	1	-
5	5	E-AD-7017019-0-0	7017019-04	872-E REAR PANEL ASSY	-	-	-	-	1
6	6	E-AD-7017020-0-0	7017020-00	872-A FRONT PANEL ASSY	1	-	-	-	-
7	7	E-AD-7017020-0-0	7017020-01	872-B FRONT PANEL ASSY	-	1	-	-	-
8	8	E-AD-7017020-0-0	7017020-02	872-C FRONT PANEL ASSY	-	-	1	-	-
9	9	E-AD-7017020-0-0	7017020-03	872-D FRONT PANEL ASSY	-	-	-	1	-
10	10	E-AD-7017020-0-0	7017020-04	872-E FRONT PANEL ASSY.	-	-	-	-	1
11	11	C-IA-7422925-0-0	7422925-00	COVER POWER CONTROL	2	2	2	2	2
12	12	C-MD-7422926-0-0	7422926-00	COVER POWER CORD	1	1	1	1	1
13	13	A-PS-1700027-0-0	1700027-01	PWR CORDAGE 3COND 14AWG SJT	1	1	1	-	-
14	14	A-PS-1700025-0-0	1700025-00	PWR CORDAGE 3COND 12AWG STO	-	-	-	1	1
15	15	A-PS-9008938-0-0	9008938-00	CONN,POWER 02P3W PLUG NEMA 05-1	1	-	-	-	-
16	16	A-PS-9008853-0-0	9008853-00	CONN,POWER 02P03W PLUG NEMA 06-1	-	1	-	-	-
17	17	A-PS-1215183-0-0	1215183-00	CONN,POWER 02P03W PLUG NEMA 05-	-	-	1	-	-
18	18	A-PS-1211193-0-0	1211193-00	CONN,POWER 02P03W PLUG NEMA L05-	-	-	-	1	-
19	19	A-PS-1216886-0-0	1216886-00	CONN,POWER 02P03W PLUG NEMA LG -	-	-	-	-	1
20	20		1215566-00	CLAMP,CABLE SCREW MNT	1	1	1	-	-
21	21		1215566-01	CLAMP,CABLE SCREW MNT	-	-	-	1	1
22	22	A-PS-3617696-0-0	3617696-01	LABEL,DANGER HIGH VOLTAGE	1	1	1	1	1
23	23	A-PS-3613210-0-0	3613210-02	LABEL, UL FOIL ADH BACK	1	1	1	1	1
24	24	A-PS-3611448-0-0	3611448-00	*** THIS ITEM IS NOT USED ***	-	-	-	-	-
25	25	A-PS-3612063-0-0	3612063-00	LABEL, ADHESIVE I.D. FOR UL C	1	1	1	1	1
26	26	A-PS-3613211-0-0	3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1	1	1	1	1
27	27		9000001-03	STANDOFF,MALE/FEMALE HEX 8-32	2	2	2	2	2
28	28		9010174-01	SCREW,SEMS PAN PHIL 8-	6	6	6	6	6
29	29		9010174-02	SCREW,SEMS PAN PHIL 8-	2	2	2	2	2
30	30		9010174-00	SCREW,SEMS PAN PHIL 6-	4	4	4	4	4

REVISION HISTORY		BASIC PART NO: 00872		DRN: JUDY SLEZ	DATE: 12-OCT-79	D I G I T A L				
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D: GEORGE HOVEY	DATE: 12-OCT-79	TITLE		PARTS LIST		
---	INITIAL	A	SECTION. VARIATION INDEX	DES.ENG.: TOM ORR	DATE: 12-OCT-79	872 POWER CONTROL				
TO	872-ML001	B	[A] A , B , C , D , E	RESP.ENG.: TOM ORR	DATE: 12-OCT-79	DOCUMENT NUMBER				
A.B	872-ML002	C	[B]	MFG.ENG.: GLEN ARMBRUSTER	DATE: 12-OCT-79	SIZE	CODE	NUMBER	REV	
			[C]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	872-0-DBP	C	
			[D]	E-UA-872-0-0	B-DD-872-0-0	FILE NAME:		EDIT #		
			[E]			Z1012C.PLS		9		
			[F]							

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PARTS LIST

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION					
				A	B	C	D	E	
31	31	A-PS-3616797-0-0	3616797-00	LABEL,POWER CONTROLLER 872-A	1	-	-	-	-
32	32	A-PS-3616797-0-0	3616797-01	LABEL,POWER CONTROLLER 872-B	-	1	-	-	-
33	33	A-PS-3616797-0-0	3616797-02	LABEL,POWER CONTROLLER 872-C	-	-	1	-	-
34	34	A-PS-3616797-0-0	3616797-03	LABEL,POWER CONTROLLER 872-D	-	-	-	1	-
35	35	A-PS-3616797-0-0	3616797-04	LABEL,POWER CONTROLLER 872-E	-	-	-	-	1
36	36	A-PS-3616798-0-0	3616798-00	LABEL,220-240V OUTLET	-	-	-	-	1
37	37	A-DC-7416581-0-1	7416581-01	DECAL	-	1	-	-	1
38	38		9007926-01	TERM,RING #10STUD CRIMP 10-1	-	-	-	3	3
39	39		9007928-00	TERM,RING #10STUD CRIMP 14-1	3	3	3	-	-
40	40		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	4	4	4	4	4
41	41		9006690-00	WASHER,HELICAL SPLIT SST	2	2	2	2	2
42	42		3616073-00	LABEL,ID W/COPY VERTICAL	1	1	1	1	1
43	43		3617614-00	LABEL,CAUTION OVER CURRENT PROTE	-	-	-	1	1

D	I	G	I	T	A	L	TITLE	872 POWER CONTROL	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	872-0-DBP	C

8

DUAL TEU78-0-0

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3

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CABLE CHART

FROM		CONNECTION			TO		REMARKS	WITH
I/O CONNECTOR PANEL (J5)	NOTE 4	PORT "A" IN (J18)	NOTE 4	ITEM #9 (BC06S)	DUAL PORT ONLY	TU78 MASTER GND STUD	ITEM #11 (7412827)	
I/O CONNECTOR PANEL (J6)		PORT "B" IN (J20)						
11/780 CABINET GND STUD		TU78 MASTER GND STUD						
11/780 I/O CONN PANEL	DUAL PORT ONLY	PORT "A" OUT (J17)	TERMINATOR ASSY FOR TU78 MASTER	ITEM #16 (7009938)				
		PORT "B" OUT (J19)						
TM78 LOGIC (J1)		DRIVE #0 MIA (J2)		ITEM #4-#7 (7017382)				
TM78 LOGIC (J2)		DRIVE #0 MIA (J3)						
TM78 LOGIC (J3)		DRIVE #1 MIA (J2)						
TM78 LOGIC (J4)		DRIVE #1 MIA (J3)						
TM78 LOGIC (J5)		DRIVE #2 MIA (J2)						
TM78 LOGIC (J6)		DRIVE #2 MIA (J3)						
TM78 LOGIC (J7)		DRIVE #3 MIA (J2)						
TM78 LOGIC (J8)		DRIVE #3 MIA (J3)						

CPU INTERNAL CONN

I/O CONNECTOR PANEL (J5-A)	SEE NOTE 1	RH780/M9041	ALWAYS INSTALLED	ITEM #8 (BC06R)
I/O CONNECTOR PANEL (J5-B)				
I/O CONNECTOR PANEL (J5-C)				
I/O CONNECTOR PANEL (J6-A)	SEE NOTE 1	RH780/M9041	DUAL PORT ONLY	ITEM #8 (BC06R)
I/O CONNECTOR PANEL (J6-B)				
I/O CONNECTOR PANEL (J6-C)				

LEGEND

NUMBER	DESCRIPTION
TEU78-AB	SINGLE ACCESS DRIVE ASSY 240V 60 HZ
TEU78-AD	SINGLE ACCESS DRIVE ASSY 240V 50 HZ
TEU78-AL	TEU78-AB WITHOUT CONTROLLER (RH780)
TEU78-AN	TEU78-AD WITHOUT CONTROLLER (RH780)
TEU78-BB	DUAL ACCESS DRIVE ASSY 240V 60 HZ
TEU78-BD	DUAL ACCESS DRIVE ASSY 240V 50 HZ

TAPE RH780 IN CAB	M9041 CONNECTOR	I/O CONNECTOR PANEL
1ST	A	J5-A
	B	J5-B
	C	J5-C
2ND	A	J6-A
	B	J6-B
	C	J6-C

NOTES:

- RED STRIPE ON CABLES MUST FACE THE FINGERS ON THE M9041. THE RIB SIDE OF THE BC06R CABLE MUST FACE AWAY FROM THE M9041 REFER TO E-IA-11780-0-0 FOR COMPLETE INSTALLATION DETAILS FOR BC26R CABLES.
- THE TOTAL LENGTH OF MASSBUS CABLES FROM THE MASSBUS CONTROLLER TO THE TERMINATOR MUST NOT EXCEED 160 FEET.
- FOUR TAPE DRIVES ARE SHOWN FOR REFERENCE ONLY MAXIMUM NUMBER OF TM78'S PER CONTROLLER IS EIGHT. MAXIMUM NUMBER OF SLAVE DRIVES PER TM78 IS FOUR. MAXIMUM NUMBER OF TAPE DRIVES PER CONTROLLER IS THIRTY-TWO.
- J NUMBERS SHOWN FOR REFERENCE ONLY.
- TU78 SINGLE PORT MASTER SHOWN FOR REFERENCE ONLY.
- RADIAL BUS CABLE (7017382) SUPPLIED WITH TAPE DRIVE. ROUTE CABLES UP THRU SPACE BETWEEN CABINET FRAMES TO M.I.A. (MULTIPLE INTERFACE ADAPTER).
- DRIVES #1 THRU #3 ARE SHOWN FOR REFERENCE ONLY.

CAUTION: FOR OFF SHEET PARTS LIST SEE K-PL-TEU78-0-DBP

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)			
INCHES TOLERANCES	ANGLES ± 0° 30'	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES
X = ± .1		(CHECK ONE)	OVER 0 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 60.0
XX = ± .02		<input type="checkbox"/> ± .004	<input type="checkbox"/> ± .008
XXX = ± .005		<input type="checkbox"/> ± .012	<input type="checkbox"/> ± .018
THIRD ANGLE PROJECTION	DATE 10/23/80	TITLE digital	
DO NOT SCALE DRAWING	DATE 16 FEB 81	TEU78 SYSTEM ASSEMBLY	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE 2 FEB 81	DOCUMENT NUMBER	
MATERIAL	DATE 12 FEB 81	SIZE CODE	NUMBER
SEE PARTS LIST	DATE 12 FEB 81	DUAL	TEU78-0-0
FINISH //	DATE	SCALE NONE	SHEET 1 OF 2

REV	ECO NUMBER	DATE

8

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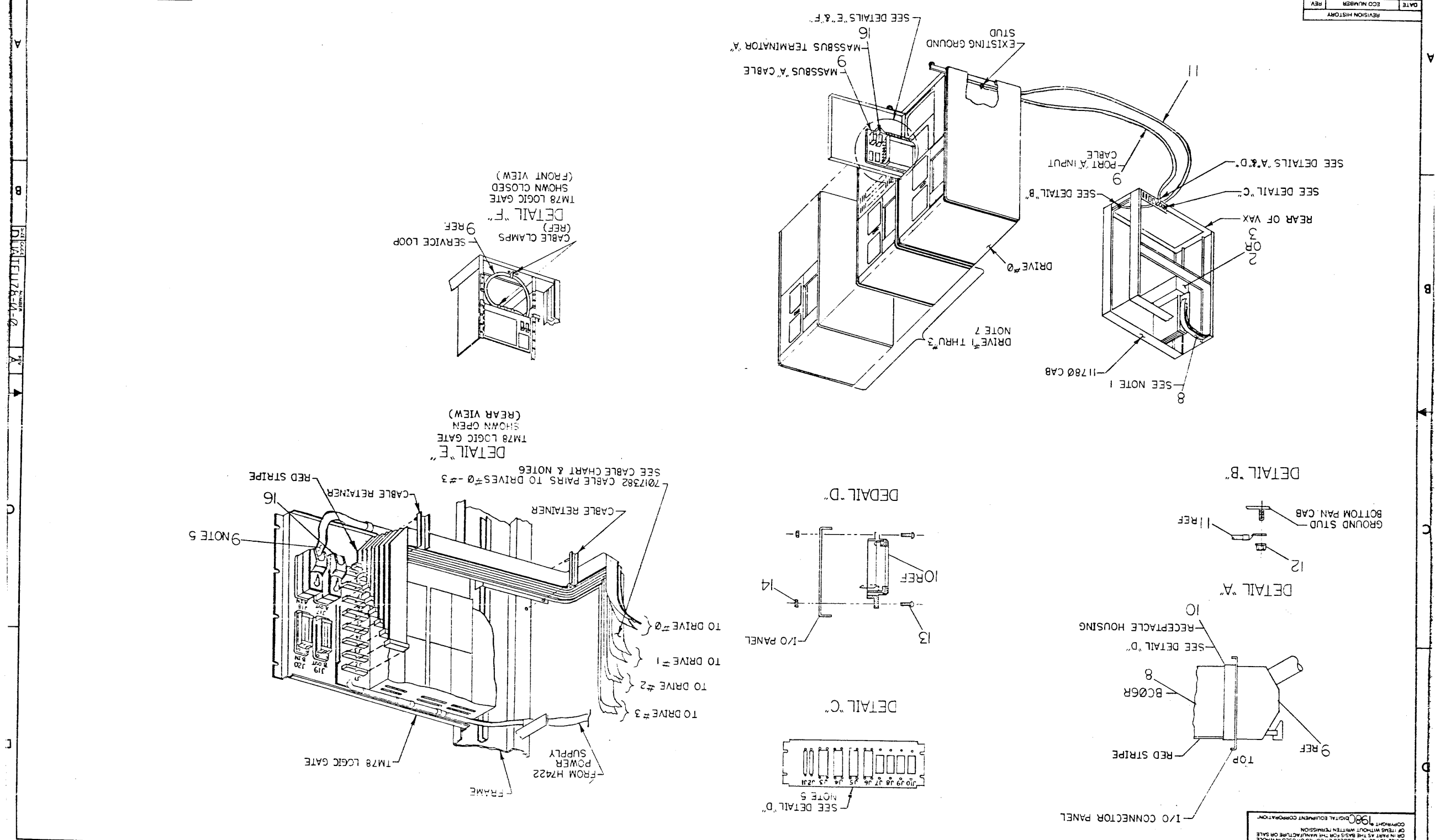
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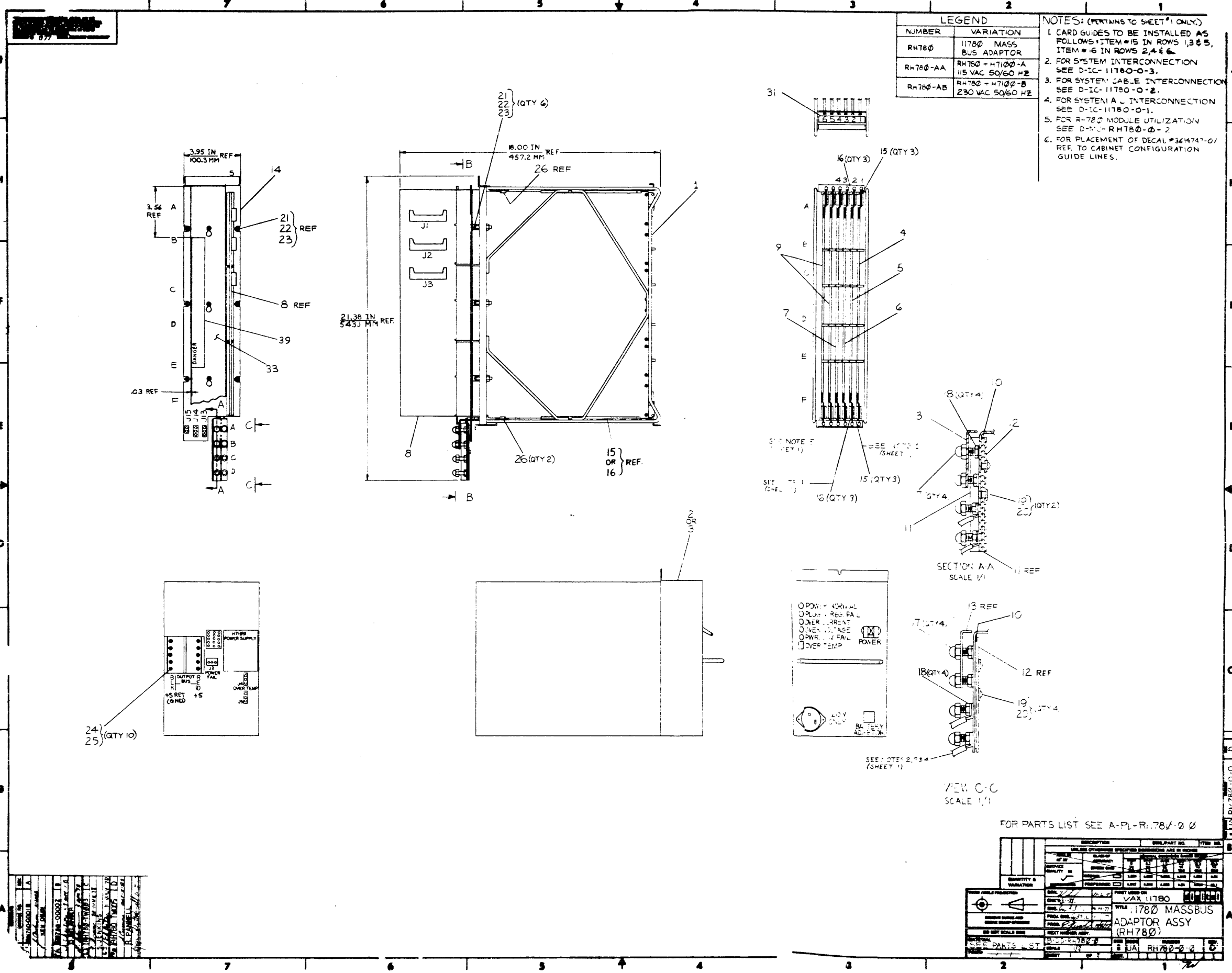
PARTS LIST

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION					
					AB	AD	AL	AN	BB	BD
1	1	E-UA-RH780-0-0	RH780-00	MBA, ADD-ON, NO POWER SUPPLY	0	0	0	0	1	1
2	2		RH780-AA	RH780 + H7100-A,120V	1	0	0	0	1	0
3	3		RH780-AB	RH780 + H7100-B,240V	0	1	0	0	0	1
4	4	E-UA-TU78-0-0	TU78-AB	TU78-AF + TM78-AB,240V 60HZ	1	0	1	0	0	0
5	5		TU78-AD	TU78-AJ + TM78-AB,240V 50HZ	0	1	0	1	0	0
6	6		TU78-BB	TU78-AF + TM78-BB,240V 60HZ	0	0	0	0	1	0
7	7		TU78-BD	TU78-AJ + TM78-BB,240V 50HZ	0	0	0	0	0	1
8	8	D-UA-BC06R-0-0	BC06R-10	CABLE I/O 10FT TM02	REF	REF	REF	REF	REF	REF
9	9	D-UA-BC06S-0-0	BC06S-25	CABLE MAS BUSS 25 FT	1	1	1	1	2	2
10	10	D-AD-7009861-0-0	7009861-00	RECEPT HOUSING ASSY-RP04	1	1	1	1	2	2
11	11	D-IA-7412827-0-0	7412827-25	GND STRAP	1	1	1	1	1	1
12	12		9006568-00	NUT,KEP ,5/16-18 X1/2 AF	1	1	1	1	1	1
13	13		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	4	4	4	4	8	8
14	14		9006557-00	NUT,KEP , 4-40X 1/4 AF	4	4	4	4	8	8
15	15		9007880-00	TIE,CABLE BUNDL,DIA 0-1-1/4"=101	A/R	A/R	A/R	A/R	A/R	A/R
16	16	D-AD-7009938-0-0	7009938-00	TERMINATOR ASSEMBLY (80-RJP04)	REF	REF	REF	REF	REF	REF
17	17	D-UA-7008288-0-0	7008288-30	CABLE ASSY.	1	1	1	1	1	1

REVISION HISTORY		BASIC PART NO:	TEU78	DRN:	PEGGY BLACK <i>PB</i>	DATE:	02-OCT-80	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	DAVE BURNS <i>PB</i>	DATE:	02-OCT-80	TITLE PARTS LIST			
---	INITIAL	A	SECTION. VARIATION INDEX [A] AB,AD,AL,AN,BB,BD					TEU78 SYSTEM			
			[B]	DES,ENG,:	DAVE BURNS <i>PB</i>	DATE:	02-OCT-80				
			[C]					DOCUMENT NUMBER			
			[D]	RESP,ENG,:	DAVE BURNS <i>PB</i>	DATE:	02-OCT-80	SIZE	CODE	NUMBER	REV
			[E]	MFG,ENG,:	BRUCE ROTENBERG <i>PB</i>	DATE:	02-OCT-80	K	PL	TEU78-0-DBP	A
			[F]	ASSEMBLY NUMBER:	E-UA-TEU78-0-0	TOP DOCUMENT NUMBER:	B-DD-TEU78-0-0	FILE NAME:	22273,PLS	EDIT #	6

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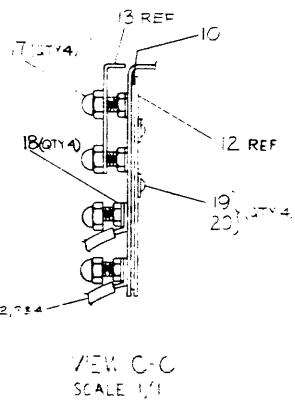
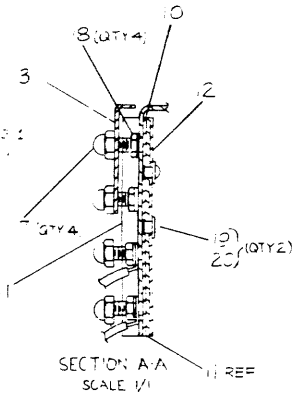
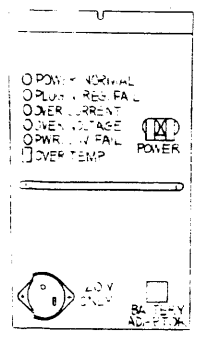
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LEGEND

NUMBER	VARIATION
RH780	11780 MASS BUS ADAPTOR
RH780-AA	RH780-H7100-A 115 VAC 50/60 HZ
RH780-AB	RH780-H7100-B 230 VAC 50/60 HZ

- NOTES: (PERTAINS TO SHEET 1 ONLY)**
- CARD GUIDES TO BE INSTALLED AS FOLLOWS: ITEM #15 IN ROWS 1,3 & 5, ITEM #16 IN ROWS 2,4 & 6.
 - FOR SYSTEM INTERCONNECTION SEE D-IC-11780-0-3.
 - FOR SYSTEM CABLE INTERCONNECTION SEE D-IC-11780-0-2.
 - FOR SYSTEM A/C INTERCONNECTION SEE D-IC-11780-0-1.
 - FOR RH780 MODULE UTILIZATION SEE D-M-L-RH780-0-2.
 - FOR PLACEMENT OF DECAL #3614747-01 REF. TO CABINET CONFIGURATION GUIDE LINES.

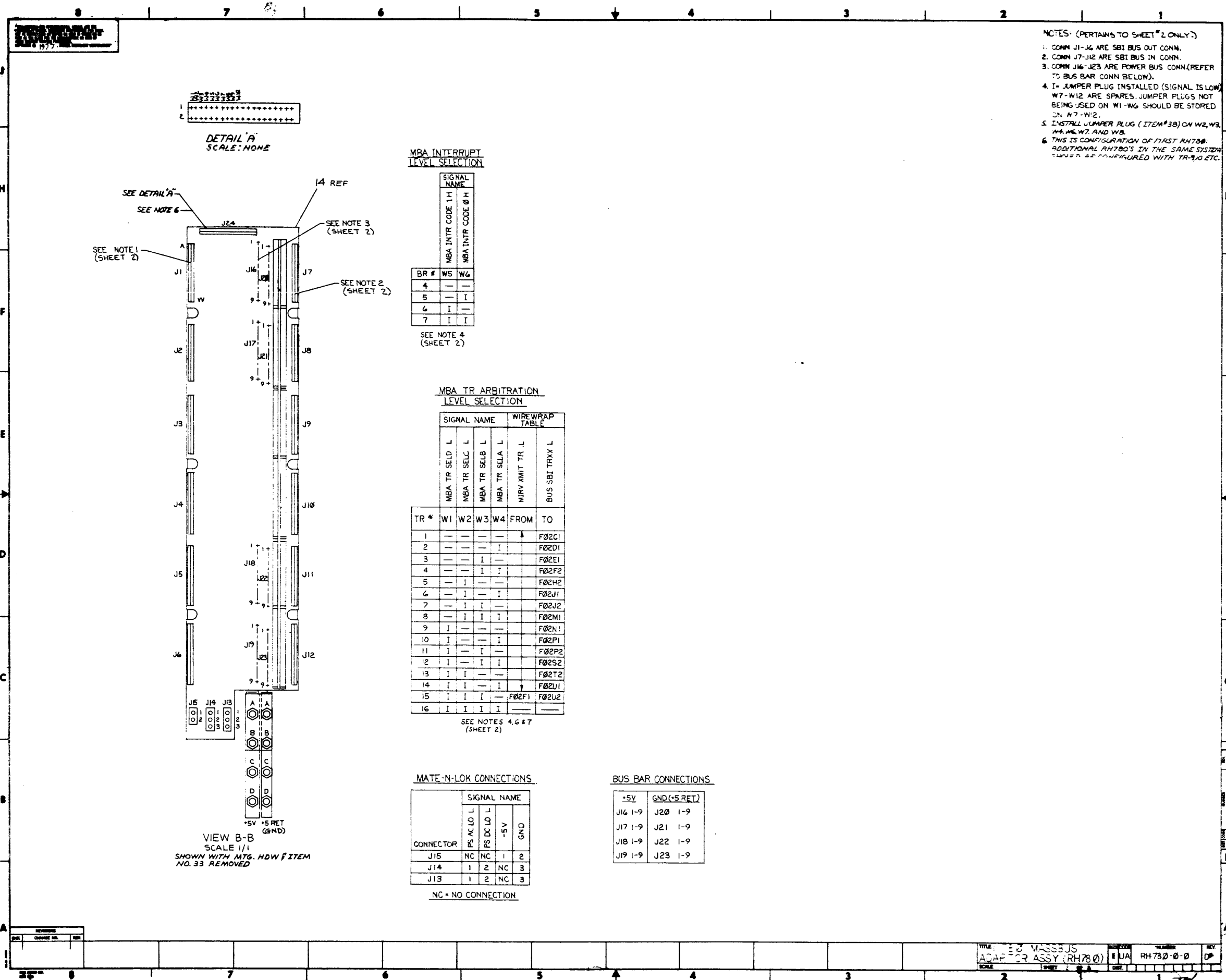


FOR PARTS LIST SEE A-PL-RH780-0-0

DESCRIPTION	QUANTITY	UNIT
VAX 11780	1	UNIT
11780 MASSBUS ADAPTOR ASSY (RH780)	1	UNIT
11780-0-0	1	UNIT

SEE PARTS LIST

REV	DESCRIPTION	DATE	BY	CHKD
1	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.
2	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.
3	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.
4	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.
5	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.
6	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.
7	REVISED TO ADD PARTS LIST	10/1/78	J. L. B.	J. L. B.



- NOTES: (PERTAINS TO SHEET 2 ONLY.)
- CONN J1-J6 ARE SBI BUS OUT CONN.
 - CONN J7-J12 ARE SBI BUS IN CONN.
 - CONN J16-J23 ARE POWER BUS CONN. (REFER TO BUS BAR CONN BELOW).
 - I- JUMPER PLUG INSTALLED (SIGNAL IS LOW). W7-W12 ARE SPARES. JUMPER PLUGS NOT BEING USED ON W1-W6 SHOULD BE STORED ON W7-W12.
 - INSTALL JUMPER PLUG (ITEM#3B) ON W2, W3, W4, W6, W7, AND W8.
 - THIS IS CONFIGURATION OF FIRST RH780. ADDITIONAL RH780'S IN THE SAME SYSTEM SHOULD BE CONFIGURED WITH TR-9, 10, ETC.

DETAIL A
SCALE: NONE

MBA INTERRUPT LEVEL SELECTION

BR #	SIGNAL NAME	
	MBA INTR CODE 1 H	MBA INTR CODE 0 H
4	I	I
5	I	I
6	I	I
7	I	I

SEE NOTE 4 (SHEET 2)

MBA TR ARBITRATION LEVEL SELECTION

TR #	SIGNAL NAME				WIRE WRAP TABLE	
	MBA TR SELD L	MBA TR SELC L	MBA TR SELB L	MBA TR SELA L	MIRV XMIT TR L	BUS SBI TRXX L
1	I	I	I	I		F02C1
2	I	I	I	I		F02D1
3	I	I	I	I		F02E1
4	I	I	I	I		F02F2
5	I	I	I	I		F02H2
6	I	I	I	I		F02J1
7	I	I	I	I		F02J2
8	I	I	I	I		F02M1
9	I	I	I	I		F02N1
10	I	I	I	I		F02P1
11	I	I	I	I		F02P2
12	I	I	I	I		F02S2
13	I	I	I	I		F02T2
14	I	I	I	I		F02U1
15	I	I	I	I		F02F1 F02U2
16	I	I	I	I		

SEE NOTES 4, 6 & 7 (SHEET 2)

MATE-N-LOK CONNECTIONS

CONNECTOR	SIGNAL NAME			
	PS AC LO L	PS DC LO L	-5V	GND
J15	NC	NC	1	2
J14	1	2	NC	3
J13	1	2	NC	3

NC = NO CONNECTION

BUS BAR CONNECTIONS

+5V		GND(+5 RET)	
J16 1-9	J20 1-9		
J17 1-9	J21 1-9		
J18 1-9	J22 1-9		
J19 1-9	J23 1-9		

VIEW B-B
SCALE 1/1
SHOWN WITH MTG. HDW ITEM NO. 33 REMOVED

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION		
					OO	AA	AB
1	1	E-IA-7013712-0-0	7013712-00	CARD CAGE MBA/UBA	1	1	1
2	2	E-UA-H7100-A-0	H7100-A	11780 500 WATT SUPPLY: 5V 100A,1	-	1	-
3	3	E-UA-H7100-B-0	H7100-B	11780 500-WATT SUPPLY: 5V 100A,2	-	1	-
4	4	E-UA-M8275-0-0	M8275-00	MSI MASSBUS ADAPTER SBI INTERFAC	1	1	1
5	5	E-UA-M8276-0-0	M8276-00	MIR MASSBUS INTERNAL REGISTERS	1	1	1
6	6	E-UA-M8274-0-0	M8274-00	RH780 EXTENDED SILO (256X8) MASS	1	1	1
7	7	E-UA-M8278-0-0	M8278-00	MCB MASSBUS ADAPTER CONTROL	1	1	1
8	8	D-UA-M9041-0-0	M9041-00	MASSBYS PADDLE CARD	1	1	1
9	9	D-IA-7014103-0-0	7014103-00	BLANK MODULE ASSY	2	2	2
10	10	B-IA-7418902-0-0	7418902-00	STUD PLATE BUS BAR ADAPTER	2	2	2
11	11	B-MD-7418903-0-0	7418903-00	U-BAR	1	1	1
12	12	B-MD-7419084-0-0	7419084-00	PLATE, HOLDING	1	1	1
13	13	B-MD-7419485-0-0	7419485-00	COVER, BUS BAR MEMORY	1	1	1
14	14	E-IA-7013627-0-0	7013627-00	BACKPLANE ASSY (MBA)	1	1	1
15	15		1212405-00	GUIDE,CARD ,NYLON ,NATURAL	6	6	6
16	16		1212405-01	GUIDE,CARD ,NYLON ,MAGNETA	6	6	6
17	17		9006610-00	NUT,CAP,PELOCK 10-32X .438AF NYL	8	8	8
18	18		9006565-00	NUT,HEX EXT TOOTH LCKWSHR 10-32	8	8	8
19	19		9008032-01	SCREW,MACH PAN PHIL 4-	4	4	4
20	20		9006655-00	WASHER,FLAT SST	4	4	4
21	21		9006 043-01	SCREW,MACH PAN PHIL	8-	6	6
22	22		9006660-00	WASHER,FLAT SST	6	6	6
23	23		9006563-00	NUT,HEX EXT TOOTH LCKWSHR 8-32	6	6	6
24	24		9006073-01	SCREW,MACH PAN PHIL 10-	10	10	10
25	25		9007906-00	WASHER,HELICAL SPLIT STEEL	10	10	10
26	26		1211630-00	GUIDE,CARD ,POLMIDE,NATURAL	2	2	2
27	27	D-IC-11780-0-3		11780 SUB SYSTEM INTERCONNECT	REF	REF	REF
28	28	D-IC-11780-0-2		11780 SYSTEM INTERCONNECT DIAGRA	REF	REF	REF
29	29	D-IC-11780-0-1		11780 SYSTEM POWER DIAGRAM	REF	REF	REF
30	30	D-MU-RH780-0-2		RH780 MODULE UTILIZATION	REF	REF	REF

REVISION HISTORY		BASIC PART NO: RH780		DRN:	A.RUSZCZYK	DATE:	01-APR-83	D I G I T A L				
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	T.MCCULLOUGH	DATE:	01-AP	R-83	TITLE			PARTS LIST
---	INITIAL	D	SECTION, VARIATION INDEX						11780 MASSBUS ADAPTOR ASSY			
RP	RH780-TW005	E	(A) OO,AA,AB						(RH780)			
			(B)	DES.ENG.:	R.PANNELL	DATE:	01-APR-83		DOCUMENT NUMBER			
			(C)									
			(D)	RESP.ENG.:	R.PANNELL	DATE:	01-APR-83		SIZE	CODE	NUMBER	REV
			(E)						K	PL	RH780-0-DBP	E
			(F)	MFG.ENG.:	A.PADLA	DATE:	01-APR-83					
				ASSEMBLY NUMBER:	A-PL-RH780-0-0	TOP DOCUMENT NUMBER:	E-UA-RH780-0-0		FILE NAME:		Z5532E.PLS	EDIT #
												6

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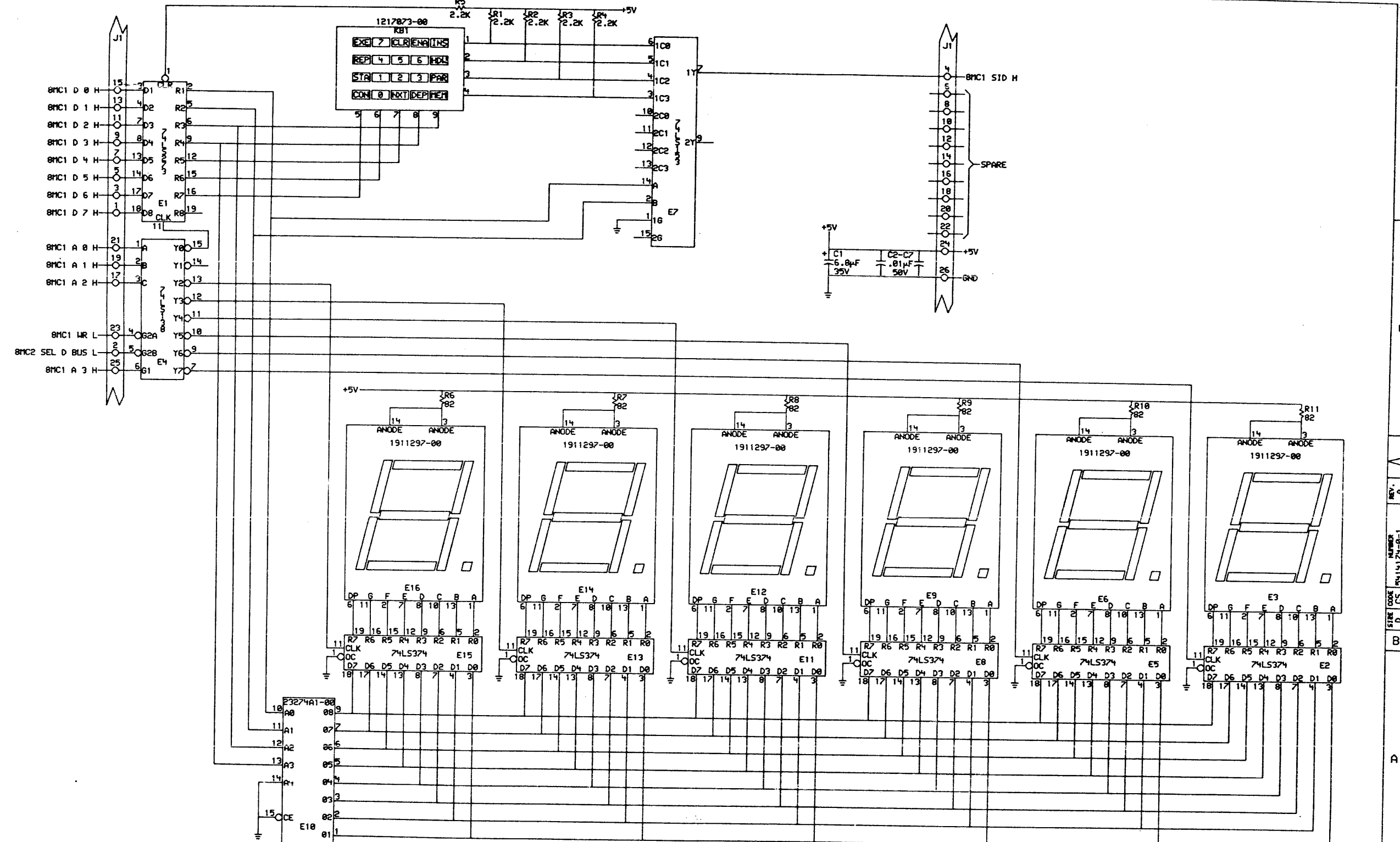
AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION		
					00	AA	AB
31	31		3613281-03	LABEL,ADHESIVE BACK FOR BA11-K	2	2	2
32	32		7014212-0M	CABLE AC,DC,LOW	-	1	1
33	33	C-MD-7419450-0-0	7419450-00	COVER MBA BACKPLANE	1	1	1
34	34		7014530-0L	CABLE POWER RED	2	2	2
35	35		7014249-0L	CABLE POWER BLACK	2	2	2
36	36		1700087-00	CABLE,RIBBON,20 COND. ASSY FLAT	6	6	6
37	37		7014212-0H	CABLE AC,DC,LOW	1	-	-
38	38		1214314-00	CONN,P+S 02SKT(1X02).100CC JUM	6	6	6
39	39		3615087-02	LABEL,"DANGER-HIGH CURRENT"	1	1	1
40	40	D-UA-BC06R-0-0	BC06R-10	CABLE I/O 10FT TM02	3	3	3
41	41		7014213-0K	CAB OVER TEMP	-	-	1
42	42		9009642-00	SCREW,SEMS PAN PHIL 8-	4	5	5
43	43		3614747-01	LABEL,MODULE UTILIZATION RH780	1	1	1
44	44		7009861-00	RECEPT HOUSING ASSY-RP04	1	1	1
45	45		7412827-25	GND STRAP	1	1	1
46	46		9006568-00	NUT,HEX EXT TOOTH LCKWSH 5/16-18	1	1	1
47	47		9008033-01	SCREW,MACH PAN PHIL 4-	4	4	4
48	48		9006556-00	NUT,HEX 4-40X .264AF SS/N	4	4	4
49	49		7009938-00	TERMINATOR ASSEMBLY (80-RJP04)	1	1	1

D	I	G	I	T	A	L	TITLE	11780 MASSBUS ADAPTOR ASSY (RH780)	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	RH780-0-CBP	E



D
C
B
A

D
C
B
A

REVISIONS		
CHK	CHANGE NO.	REV

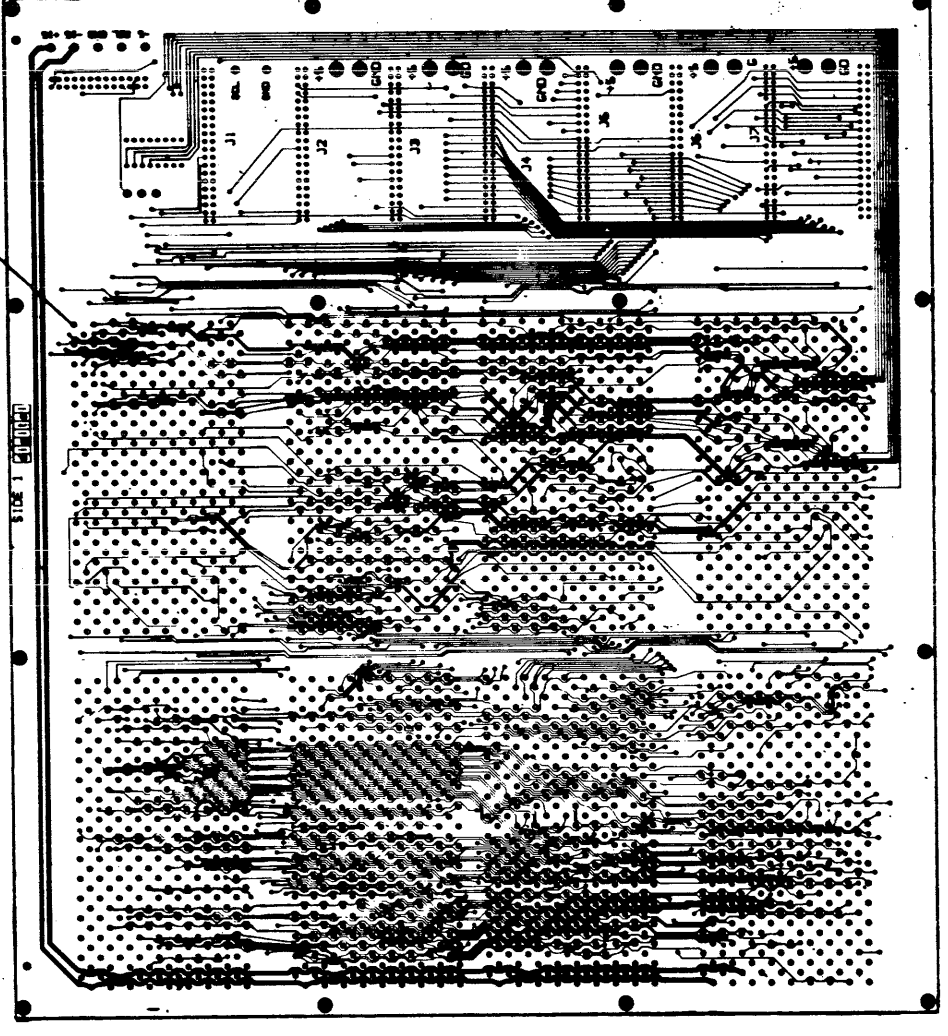
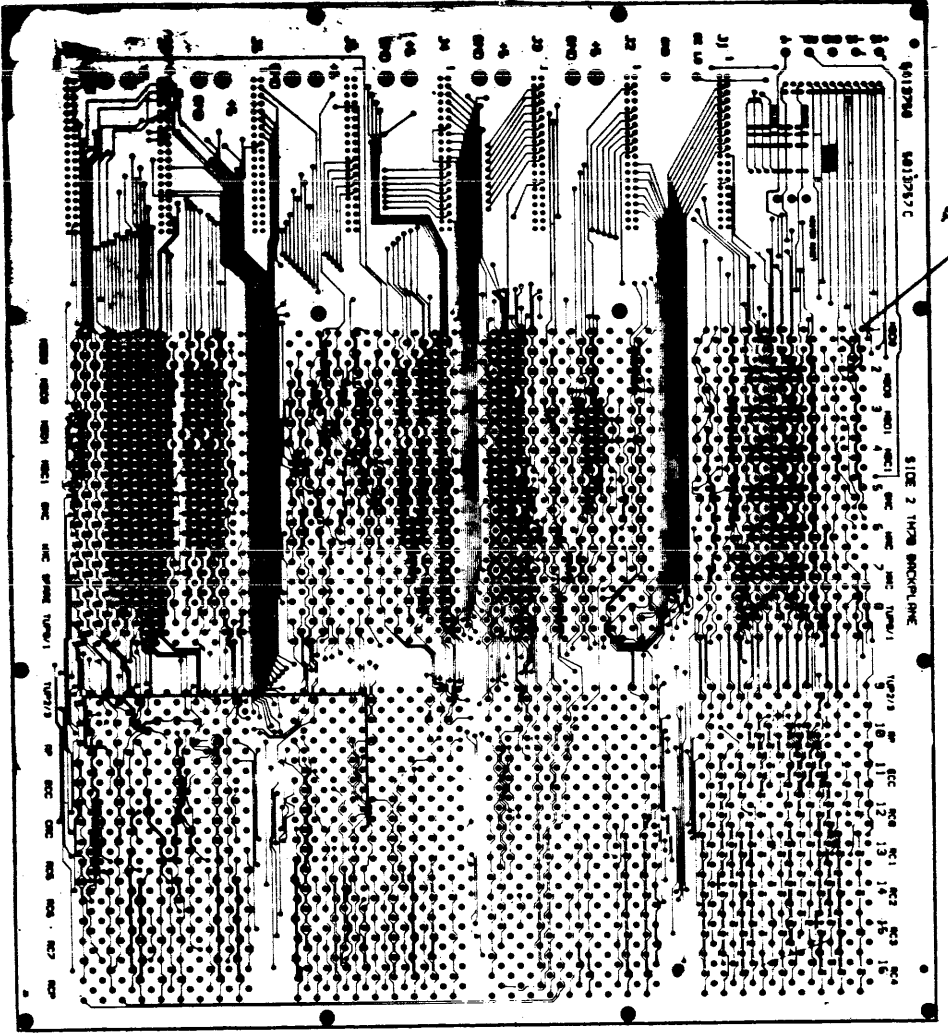
	DATE: 15-APR-88	DATE: 16-APR-80	TITLE: TM78 KEYPAD
	DATE: 16-APR-88	DATE: 16-APR-80	
L 364,4825 JBCS.DRW FIRST USED ON OPTION MODEL: TM78	111-APR-88 11:11 NEXT HIGHER ASSEMBLY: B-DD-5414174-0	SIZE CODE: D CS NUMBER: 5414174-0-1	REV: A

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1			5014173-00	ETCH BOARD FOR 5414174	1	
2			1001610-00	.01 MFD 50V +80-20% 25U CER	6	C2-C7
3			1005306-00	6.8MFD 35V 10% S.TANT	1	C1
4			1217073-00	KEYBOARD, 5X4 MATRIX	1	KB1
5			1215341-02	HEADER, 26PIN VERTICAL	1	J1
6			1301477-00	82.0 .25 W 5.0 % CC	6	R6-R11
7			1300417-00	2.20 K .25 W 5.0 % CC	5	R1-R5
8			1911297-00	5082-7730 SEGMENT DISPLAY LA	6	E3, E6, E9, E12, E14, E16
9			1912842-00	LS138 DECODER-THREE INPUT,	1	E4
10			1912845-00	LS153 MUX 1 OF 4 (DUAL)	1	E7
11			1912863-00	LS273 FF-D OCTAL W/CLEAR	1	E1
12			1914214-00	LS374 FF-D OCTAL EDGE TRIG	6	E2, E5, E8, E11, E13, E15
13			23274A1-00	A1-07	1	E10
14		E-UA-5414174-0-0		UNIT ASSY	REF	
15		D-CS-5414174-0-1		CIRCUIT SCHEMATIC	REF	
16		E-MD-5014173-0-0		DRILL & ETCH DWG	REF	
17		E-EC-5014173-0-0		ETCH CUT DWG	REF	
18			9006004-01	SCREW, PAN, PHIL 2-56X 7/16 SS	4	
19			9006705-00	WASHER, NYLON, FLAT #4 .375 OD	4	
20			9008053-00	NUT, ELA-STOP, 2-56 X1/4 AF X 1	4	

REVISION HISTORY		BASIC PART NO: 5414174		DRN: V.MANGAUDIS		DATE: 20-SEP-79		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P.BOSSMAN	DATE:	20-SEP-79	TITLE	PARTS LIST
	INITIAL	A	SECTION VARIATION INDEX					TM78 KEYPAD	
			[A] 00						
			[B]						
			[C]	DES.ENG:	D.JERVIS	DATE:	20-SEP-79		
			[D]						
			[E]					DOCUMENT NUMBER	
			[F]	RESP.ENG.:	D.JERVIS	DATE:	20-SEP-79		
			[H]					SIZE	CODE
			[J]					NUMBER	REV
			[K]	MFG.ENG.:	P.BARTON	DATE:	20-SEP-79	K	PL
			[L]					5414174-0-DBP	A
			[M]	ASSEMBLY NUMBER:	E-UA-5414174-0-0	TOP DOCUMENT NUMBER:	#B-DD-5414174-0	FILE NAME:	EDIT #
			[N]					Z0546A.PLS	3

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NOTES:

CHANGE NO	REV	DATE	BY	CHKD
5413758	-	11/27/78	ROUELLETTE	
5413758	C			

SIGNATURES	DATE	digital
DRN. <i>[Signature]</i>	11/27/78	
CHK. <i>[Signature]</i>		TITLE
ENG. <i>[Signature]</i>		TM78 BACKPLANE
PROJ. ENG. <i>[Signature]</i>		SCALE 1-1
PROD. <i>[Signature]</i>		SHT. 1 OF 1
ETCH REV C FIRST USED ON 11/78		SIZE CODE NUMBER REV
		D CS 5413758-0-1 C

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					VARIATION REVISION LEVEL:	00	
1	1		5013757-00		54-13756	1	
2	-		1210758-01		CONN,CARD 28PIN SLOTTED OPEN FN	R	J14-J21
3	3		1215341-00		PCB HEADER 40PIN(2X20).100CC STM	R	J1-J8
4	4		1215741-02		PCB HEADER 26PIN(2X13).100CC STM	1	J9
5	5		1211164-04		SW,LP 09PCS/1PST 5VDC100MA P	1	S1
6	6		1211079-00		SW,LP 1PDT HC-NO MOM 1A	1	PS1
7	7	F-UA-5413758-0-0			UNIT ASSY	REF	
8	8	L-CS-5413759-0-1			CIRCUIT SCHEMATIC	REF	
9	9	F-MU-5013757-0-0			DRAW & FITCH DWG	REF	
10	10	F-FC-5013757-0-0			FITCH CUT DWG	REF	

REVISION HISTORY		BASIC PART NO: 5413758		DATE	BY	DESCRIPTION
ENGR	FCR NUMBER	REV	SECTION A OF A	70-SEP-79	V. MANGAUDIS	D I G I T A L
INITIAL			SECTION VARIATION INDEX	70-SEP-79	P. RUSSMAN	TITLE PARTS LIST
R.C.1541375H-SH001			(A) 00			INTO BACKPLANE
			(B)	70-SEP-79	D. JERVIS	DOCUMENT NUMBER
			(C)			SIZE CODE NUMBER REV
			(D)	70-SEP-79	D. JERVIS	K PL 5413758-0-DBP C
			(E)			
			(F)	70-SEP-79	P. HANTON	RELEASE DATE: 05-MAR-84
			(G)			
			(H)			
			(I)			
			(J)			
			(K)			
			(L)			
			(M)			
			(N)			
			(O)			

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