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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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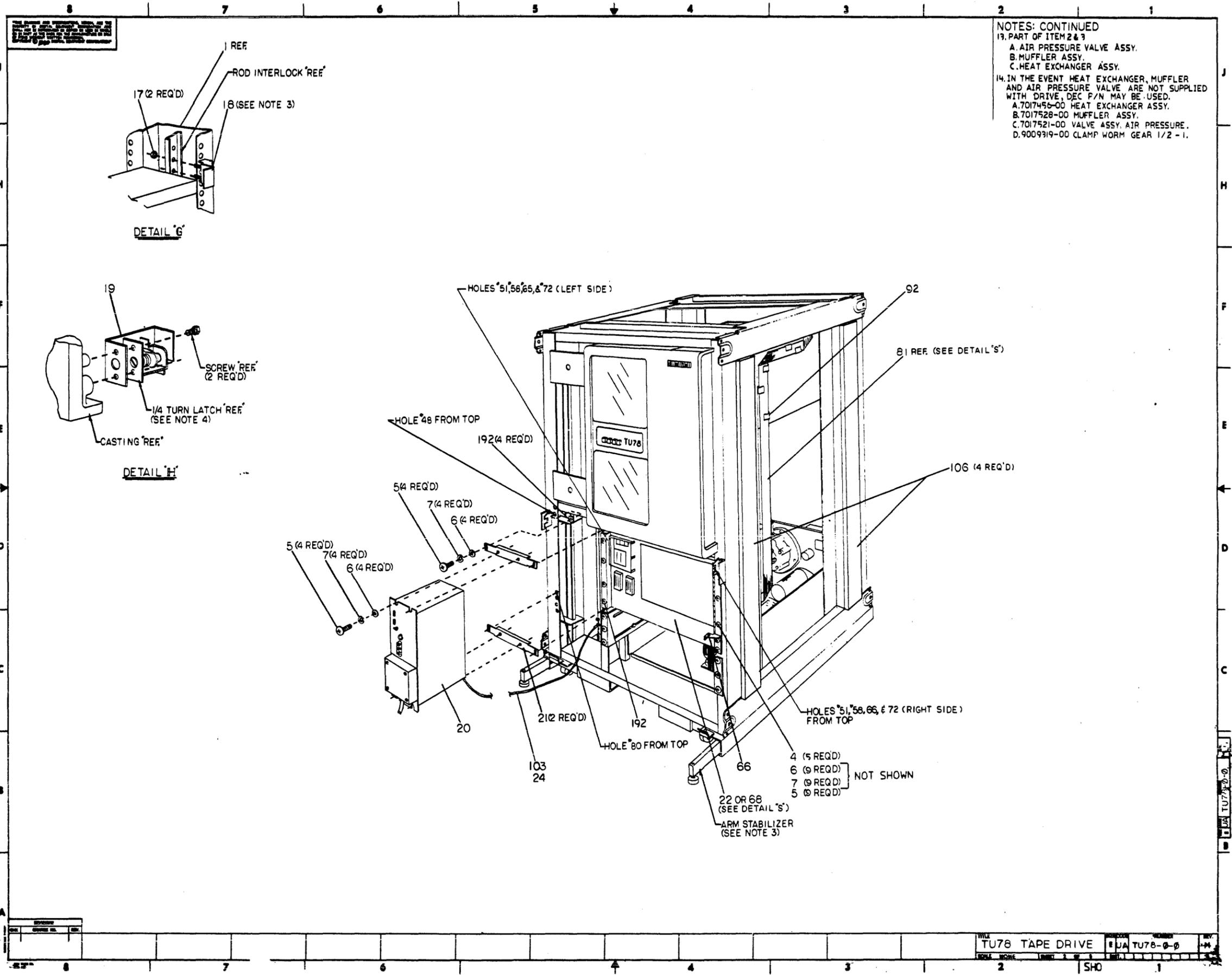
DWG NO.	TITLE	REV
D-CS-M8956-0-1	MASS BUS DATA PORT	D
D-UA-M8956-0-0	MASS BUS DATA PORT	D
K-PL-M8956-0-DBP	MASS BUS DATA PORT	D
D-CS-M8957-0-1	MASS BUS CONTROL	D
D-UA-M8957-0-0	MASS BUS CONTROL	D
K-PL-M8957-0-DBP	MASS BUS CONTROL	D
D-CS-M8958-0-1	TM78 TRANSLATOR	C
D-UA-M8958-0-0	TM78 TRANSLATOR	C
K-PL-M8958-0-DBP	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
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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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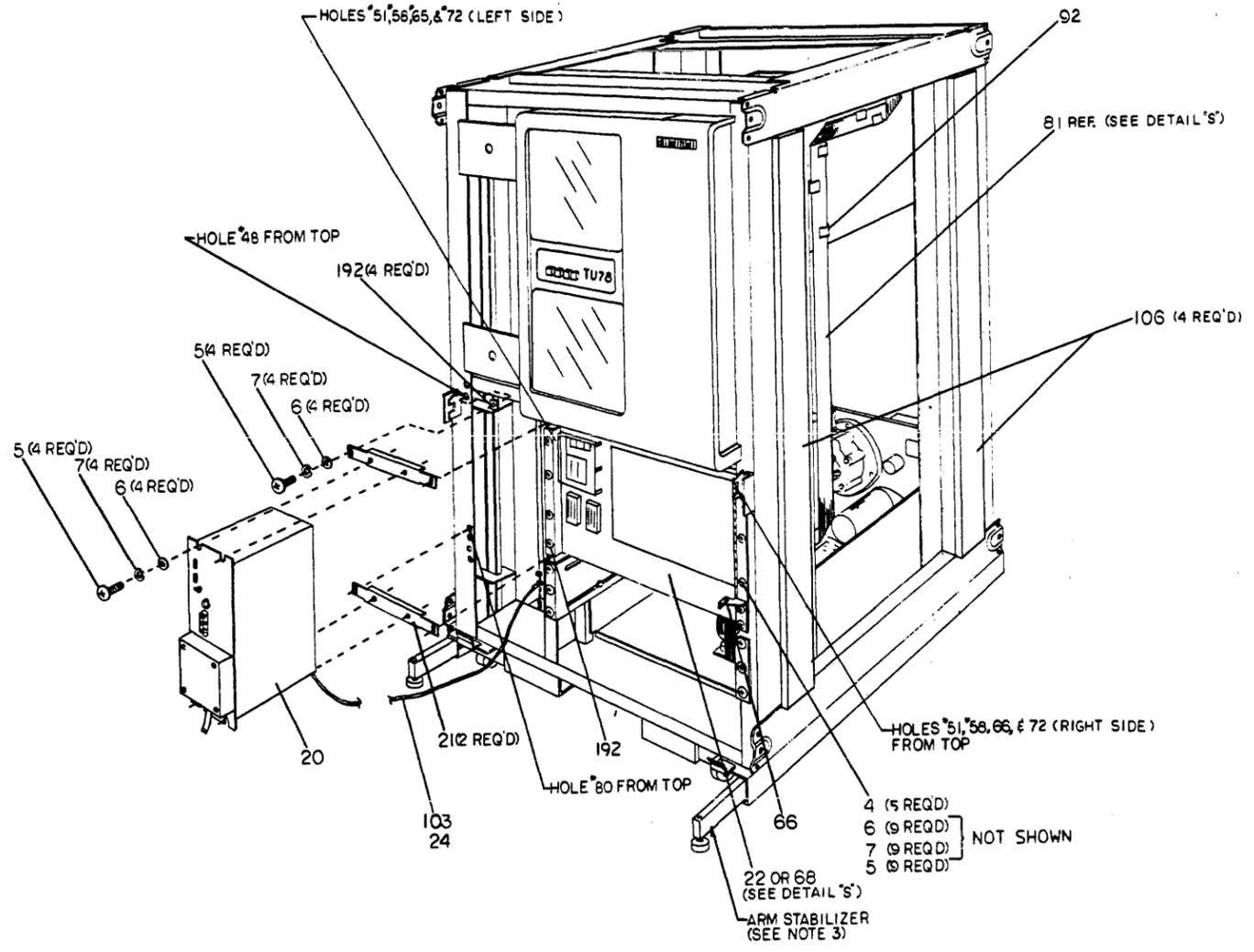
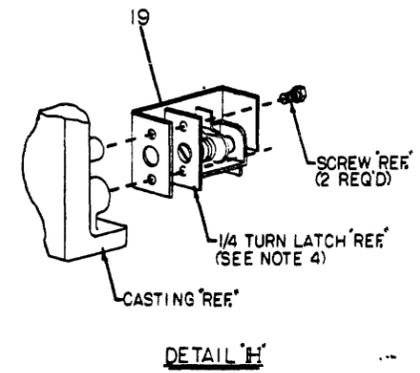
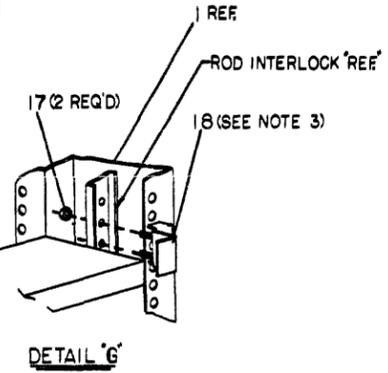
DWG NO.	TITLE	REV
K-PL-7017121-0-DBP	TM78 POWER SUPPLY	A
D-CS-5414240-0-1	H7476 REGULATOR	C
D-UA-5414240-0-0	H7476 REGULATOR	C
K-PL-5414240-0-DBP	H7476 REGULATOR	C
D-CS-5413716-0-1	+5V REGULATOR	B
D-UA-5413716-0-0	+5V REGULATOR	B
K-PL-5413716-0-DBP	+5V REGULATOR	B
D-CS-5412441-0-1	+5V 32 AMP REGULATOR	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	SHEET 4 OF 4	SIZE	CODE	NUMBER	REV.
			B	TC	TU78-0-1	C

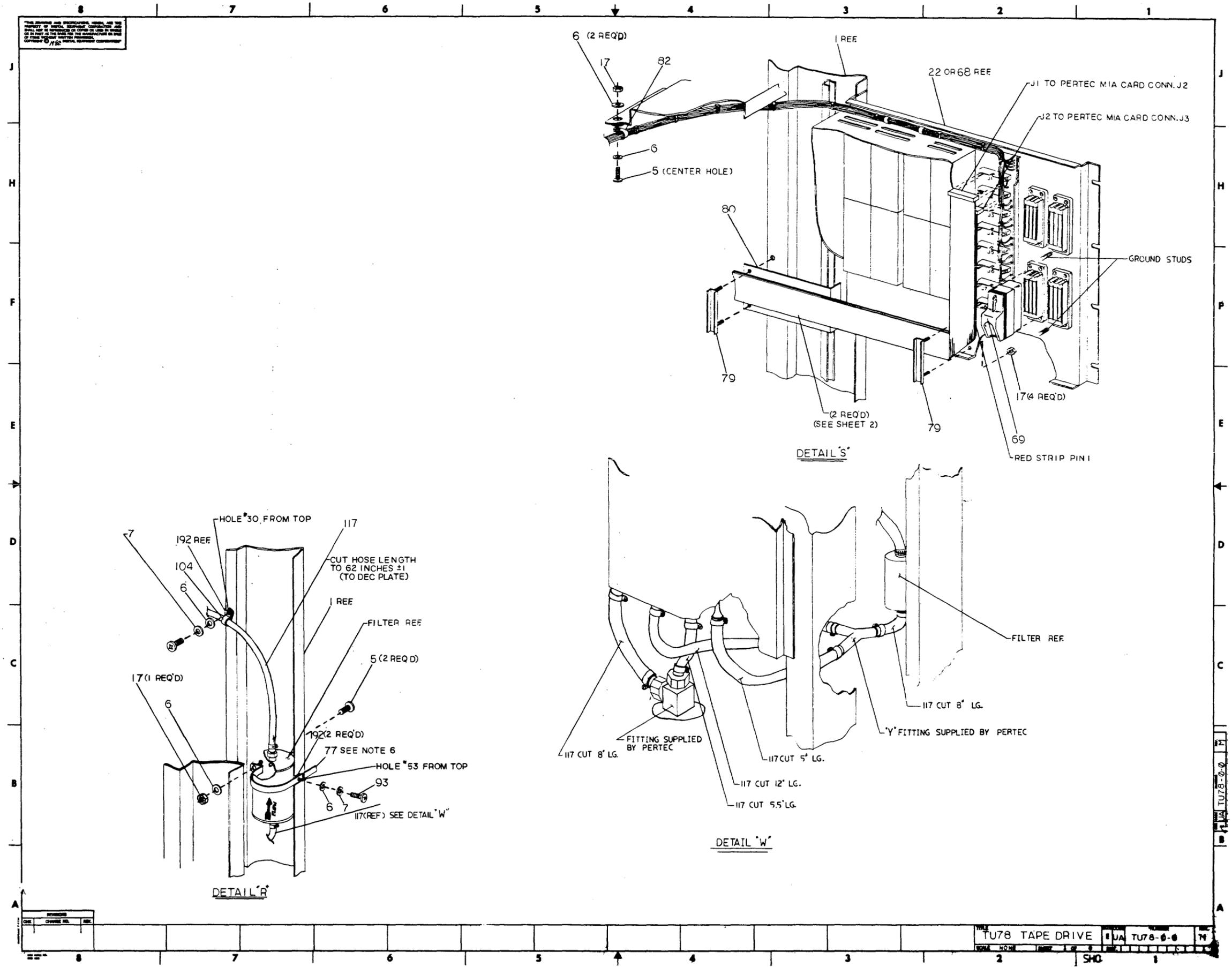


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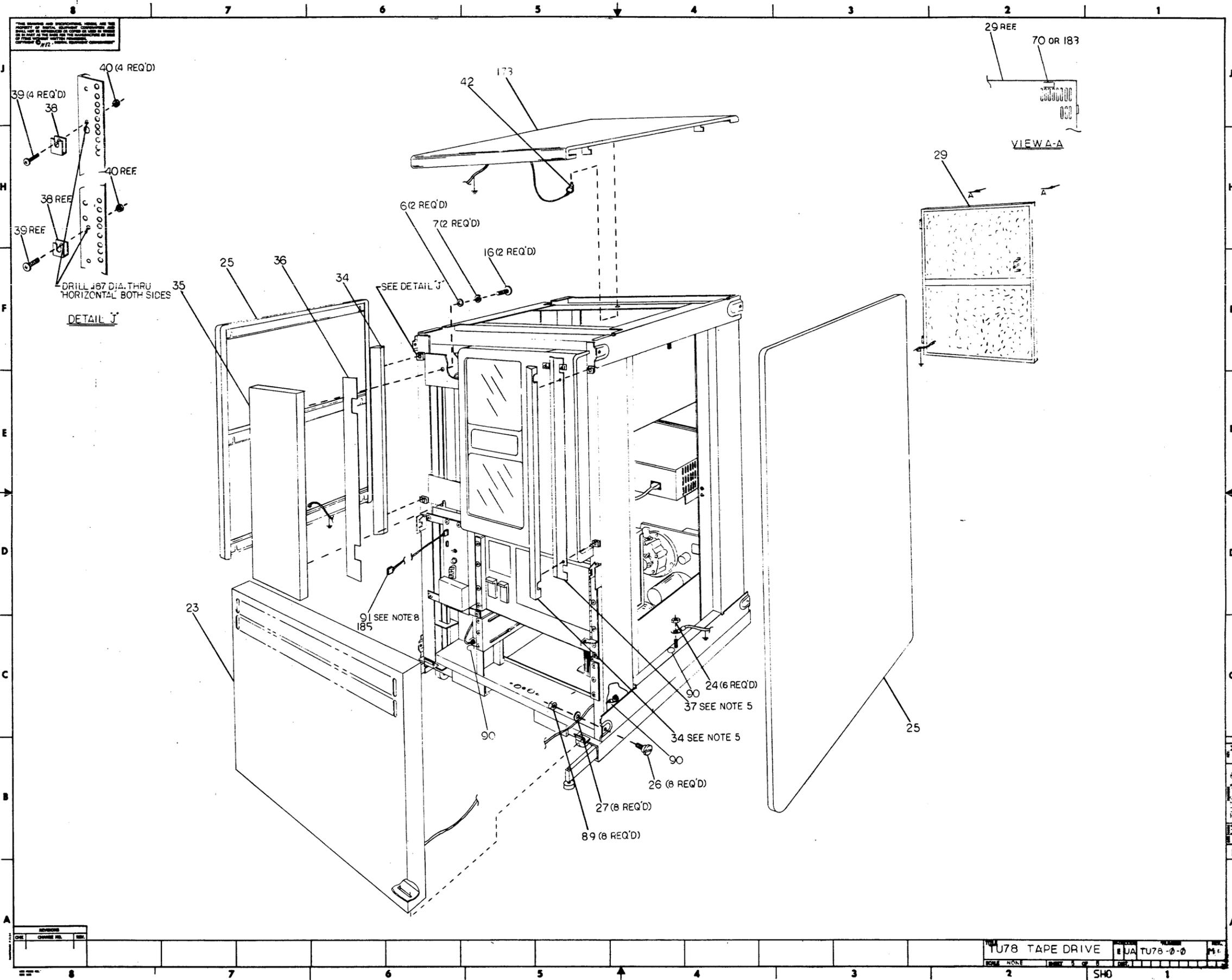
NOTES: CONTINUED
 13. PART OF ITEM 2 & 3
 A. AIR PRESSURE VALVE ASSY.
 B. MUFFLER ASSY.
 C. HEAT EXCHANGER ASSY.
 14. IN THE EVENT HEAT EXCHANGER, MUFFLER AND AIR PRESSURE VALVE ARE NOT SUPPLIED WITH DRIVE, DEC P/N MAY BE USED.
 A. 7017456-00 HEAT EXCHANGER ASSY.
 B. 7017528-00 MUFFLER ASSY.
 C. 7017521-00 VALVE ASSY. AIR PRESSURE.
 D. 9009919-00 CLAMP WORM GEAR 1/2 - 1.



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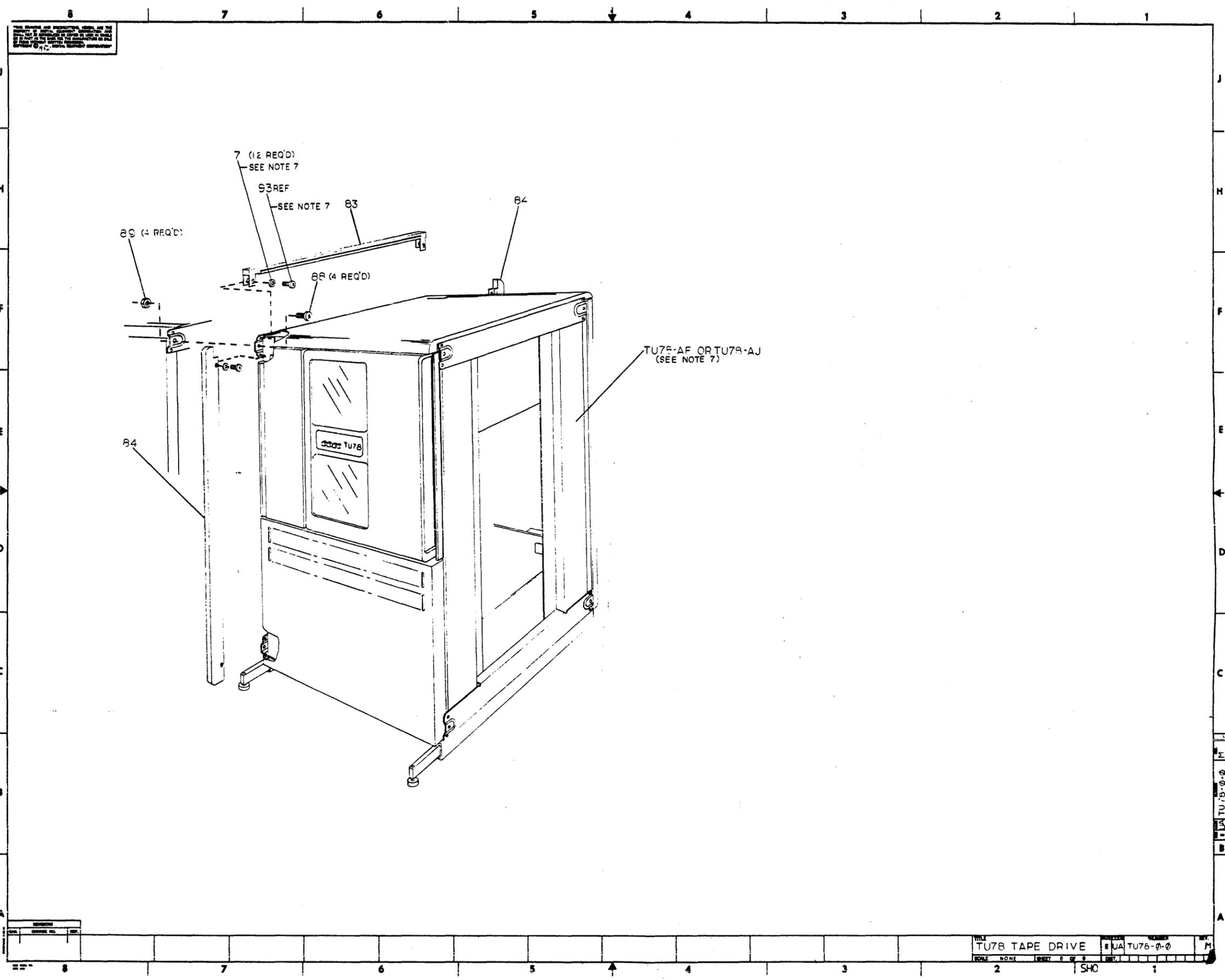


REV	DESCRIPTION	DATE



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REV.	DESCRIPTION	DATE

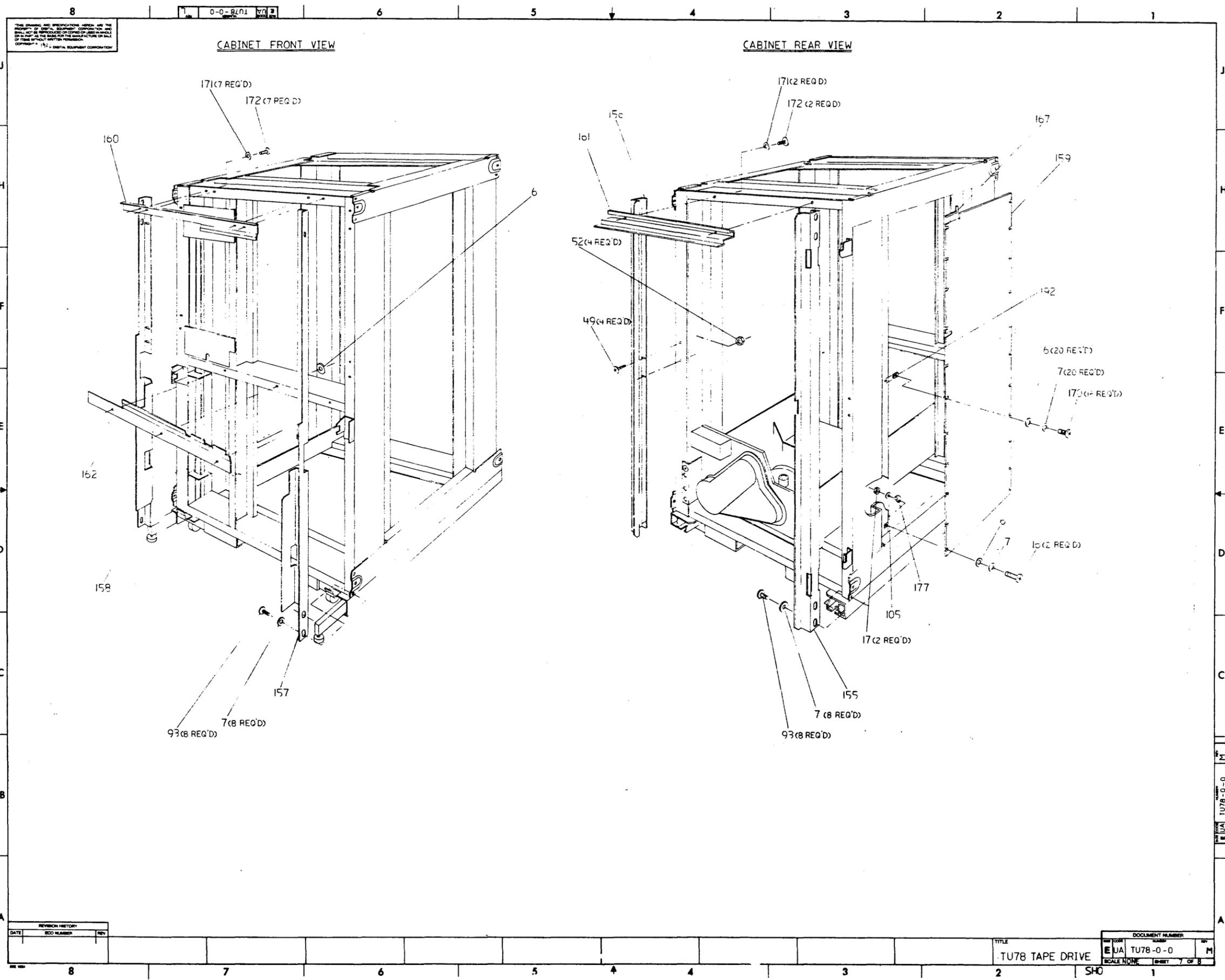


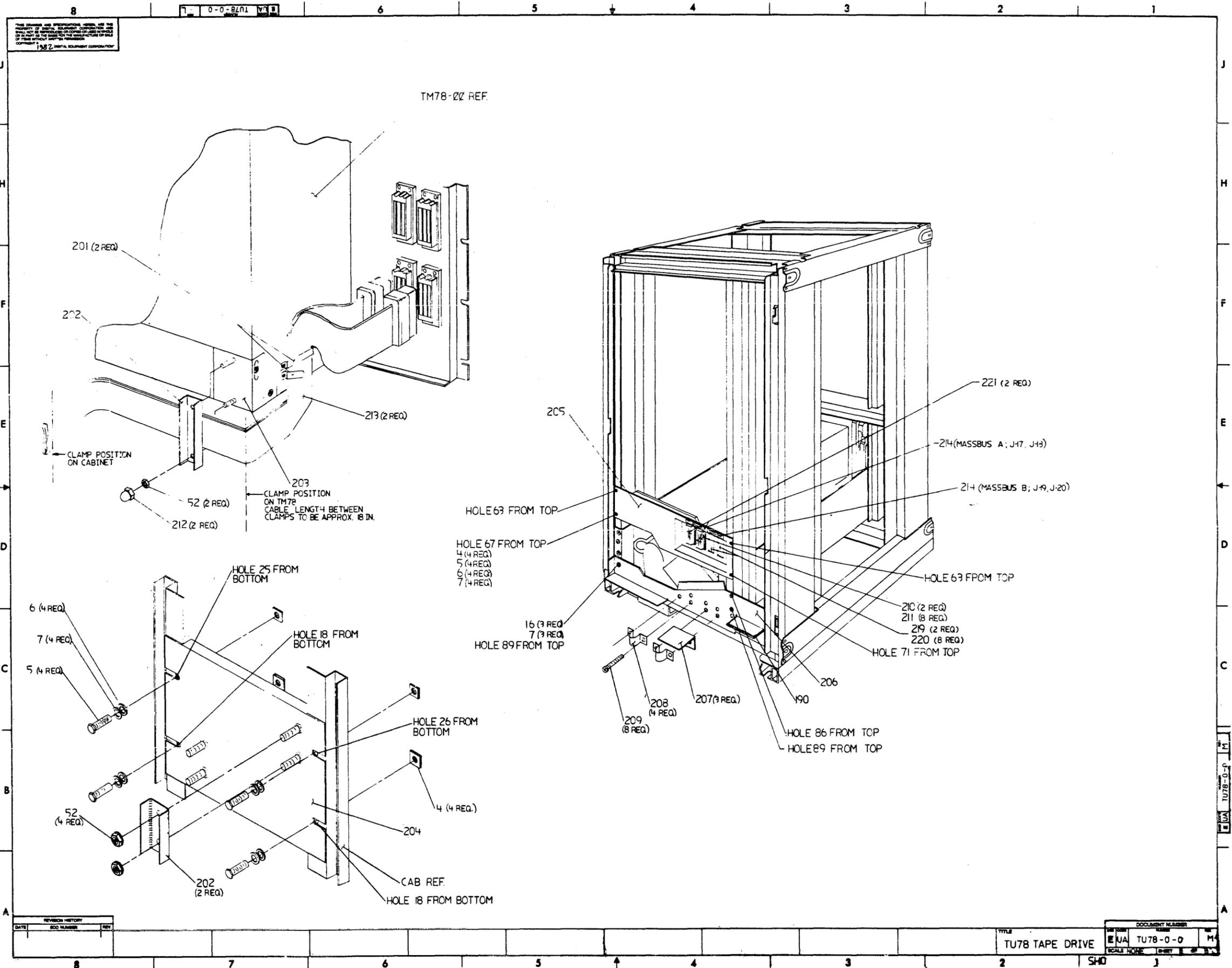
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REV.	DESCRIPTION	DATE

TITLE	TU76 TAPES DRIVE	REV.	1
NO.	2	DATE	6-6-68
BY	SHO	CHKD.	
APP.			

TU76-TU78-0-0





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REVISION HISTORY		
DATE	REV. NUMBER	REV.

TITLE		DOCUMENT NUMBER	
TU78 TAPE DRIVE		EUA TU78-0-0	
SCALE NONE		SHEET 1	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER 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 POWE 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	DES.ENG:	H.A.OLSON	DATE:	MAR-80	SIZE	CODE	NUMBER	REV			
HO	TU78-ML002	B	[A]AF,AJ,AB,AD,BB,BD	RESP.ENG.:	J.HESS	DATE:	25-APR-80	K	PL	TU78-0-DBP	M			
H.O	TU78-ML005	C		MFG.ENG.:	P.BARTON	DATE:	25-APR-80	RELEASE DATE: 30-JAN-84						
H.O	TU78-ML006	D	[B]	ASSEMBLY NUMBER:	E-UA-TU78-0-0	TOP DOCUMENT NUMBER:	B-DD-TU78-0-0	FILE NAME:	Z1403M.PLS			EDIT #	70	
H.O	TU78-ML007	F	[C]											
HO	TU78-ML010	H	[D]											
HO	TU78-ML013	J	[E]											
HO	TU78-SHO15	K	[F]											
RO	TU78-SHO16	L												
RO	TU78-SHO19	M												

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:					
						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 MGLDING 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

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	QUANITIY 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-OTM78-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		CLAMP,CABLE,SCREW MTD. 5/8 "	2	2	2	2	2	2
174	178	A-PS-3618307-0-0	3618307-05		ASSY.04,01	1	-	1	-	1	-

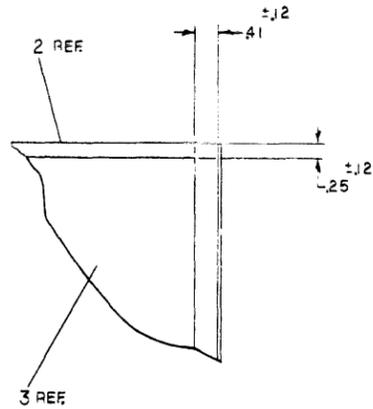
D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							TU78 TAPE DRIVE			K	PL	TU78-0-DBP	M

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	187		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

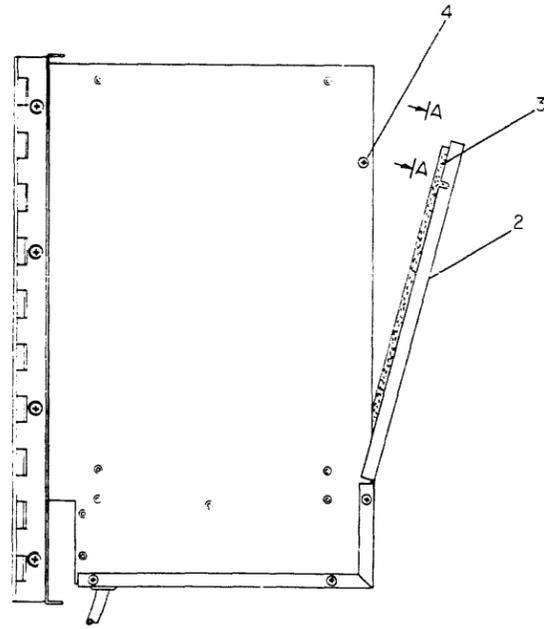
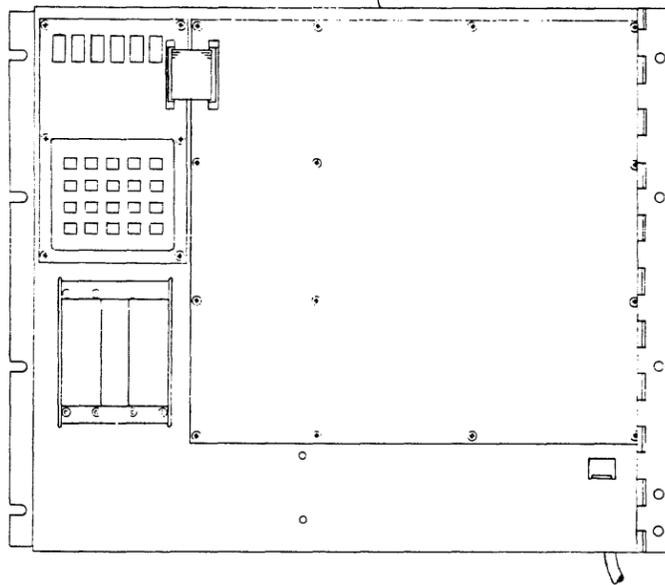
DIGITAL		TITLE	TU78 TAPE DRIVE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
					K	PL	TU78-0-DBP	M

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



VIEW A-A



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

REV	DESCRIPTION	DATE
1	INITIAL DESIGN	1/27/60
2	REVISED TO ADD PORTS	2/1/60
3	REVISED TO ADD PORTS	2/1/60
4	REVISED TO ADD PORTS	2/1/60
5	REVISED TO ADD PORTS	2/1/60
6	REVISED TO ADD PORTS	2/1/60
7	REVISED TO ADD PORTS	2/1/60
8	REVISED TO ADD PORTS	2/1/60

DESCRIPTION		DRAWING NO.		PART NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)					
DIMENSION RANGES IN INCHES					
INCHES	APPLICABLE DIMENSION RANGE	OVER	UNDER	OVER	UNDER
0.0001 - 0.0005	0.0001 - 0.0005	±0.0005	±0.0005	±0.0005	±0.0005
0.0005 - 0.0010	0.0005 - 0.0010	±0.0010	±0.0010	±0.0010	±0.0010
0.0010 - 0.0020	0.0010 - 0.0020	±0.0020	±0.0020	±0.0020	±0.0020
0.0020 - 0.0050	0.0020 - 0.0050	±0.0050	±0.0050	±0.0050	±0.0050
0.0050 - 0.0100	0.0050 - 0.0100	±0.0100	±0.0100	±0.0100	±0.0100
0.0100 - 0.0200	0.0100 - 0.0200	±0.0200	±0.0200	±0.0200	±0.0200
0.0200 - 0.0500	0.0200 - 0.0500	±0.0500	±0.0500	±0.0500	±0.0500
0.0500 - 0.1000	0.0500 - 0.1000	±0.1000	±0.1000	±0.1000	±0.1000
0.1000 - 0.2000	0.1000 - 0.2000	±0.2000	±0.2000	±0.2000	±0.2000
0.2000 - 0.5000	0.2000 - 0.5000	±0.5000	±0.5000	±0.5000	±0.5000
0.5000 - 1.0000	0.5000 - 1.0000	±1.0000	±1.0000	±1.0000	±1.0000
1.0000 - 2.0000	1.0000 - 2.0000	±2.0000	±2.0000	±2.0000	±2.0000
2.0000 - 5.0000	2.0000 - 5.0000	±5.0000	±5.0000	±5.0000	±5.0000
5.0000 - 10.0000	5.0000 - 10.0000	±10.0000	±10.0000	±10.0000	±10.0000
10.0000 - 20.0000	10.0000 - 20.0000	±20.0000	±20.0000	±20.0000	±20.0000
20.0000 - 50.0000	20.0000 - 50.0000	±50.0000	±50.0000	±50.0000	±50.0000
50.0000 - 100.0000	50.0000 - 100.0000	±100.0000	±100.0000	±100.0000	±100.0000
100.0000 - 200.0000	100.0000 - 200.0000	±200.0000	±200.0000	±200.0000	±200.0000
200.0000 - 500.0000	200.0000 - 500.0000	±500.0000	±500.0000	±500.0000	±500.0000
500.0000 - 1000.0000	500.0000 - 1000.0000	±1000.0000	±1000.0000	±1000.0000	±1000.0000
1000.0000 - 2000.0000	1000.0000 - 2000.0000	±2000.0000	±2000.0000	±2000.0000	±2000.0000
2000.0000 - 5000.0000	2000.0000 - 5000.0000	±5000.0000	±5000.0000	±5000.0000	±5000.0000
5000.0000 - 10000.0000	5000.0000 - 10000.0000	±10000.0000	±10000.0000	±10000.0000	±10000.0000
10000.0000 - 20000.0000	10000.0000 - 20000.0000	±20000.0000	±20000.0000	±20000.0000	±20000.0000
20000.0000 - 50000.0000	20000.0000 - 50000.0000	±50000.0000	±50000.0000	±50000.0000	±50000.0000
50000.0000 - 100000.0000	50000.0000 - 100000.0000	±100000.0000	±100000.0000	±100000.0000	±100000.0000
100000.0000 - 200000.0000	100000.0000 - 200000.0000	±200000.0000	±200000.0000	±200000.0000	±200000.0000
200000.0000 - 500000.0000	200000.0000 - 500000.0000	±500000.0000	±500000.0000	±500000.0000	±500000.0000
500000.0000 - 1000000.0000	500000.0000 - 1000000.0000	±1000000.0000	±1000000.0000	±1000000.0000	±1000000.0000
1000000.0000 - 2000000.0000	1000000.0000 - 2000000.0000	±2000000.0000	±2000000.0000	±2000000.0000	±2000000.0000
2000000.0000 - 5000000.0000	2000000.0000 - 5000000.0000	±5000000.0000	±5000000.0000	±5000000.0000	±5000000.0000
5000000.0000 - 10000000.0000	5000000.0000 - 10000000.0000	±10000000.0000	±10000000.0000	±10000000.0000	±10000000.0000
10000000.0000 - 20000000.0000	10000000.0000 - 20000000.0000	±20000000.0000	±20000000.0000	±20000000.0000	±20000000.0000
20000000.0000 - 50000000.0000	20000000.0000 - 50000000.0000	±50000000.0000	±50000000.0000	±50000000.0000	±50000000.0000
50000000.0000 - 100000000.0000	50000000.0000 - 100000000.0000	±100000000.0000	±100000000.0000	±100000000.0000	±100000000.0000
100000000.0000 - 200000000.0000	100000000.0000 - 200000000.0000	±200000000.0000	±200000000.0000	±200000000.0000	±200000000.0000
200000000.0000 - 500000000.0000	200000000.0000 - 500000000.0000	±500000000.0000	±500000000.0000	±500000000.0000	±500000000.0000
500000000.0000 - 1000000000.0000	500000000.0000 - 1000000000.0000	±1000000000.0000	±1000000000.0000	±1000000000.0000	±1000000000.0000
1000000000.0000 - 2000000000.0000	1000000000.0000 - 2000000000.0000	±2000000000.0000	±2000000000.0000	±2000000000.0000	±2000000000.0000
2000000000.0000 - 5000000000.0000	2000000000.0000 - 5000000000.0000	±5000000000.0000	±5000000000.0000	±5000000000.0000	±5000000000.0000
5000000000.0000 - 10000000000.0000	5000000000.0000 - 10000000000.0000	±10000000000.0000	±10000000000.0000	±10000000000.0000	±10000000000.0000
10000000000.0000 - 20000000000.0000	10000000000.0000 - 20000000000.0000	±20000000000.0000	±20000000000.0000	±20000000000.0000	±20000000000.0000
20000000000.0000 - 50000000000.0000	20000000000.0000 - 50000000000.0000	±50000000000.0000	±50000000000.0000	±50000000000.0000	±50000000000.0000
50000000000.0000 - 100000000000.0000	50000000000.0000 - 100000000000.0000	±100000000000.0000	±100000000000.0000	±100000000000.0000	±100000000000.0000
100000000000.0000 - 200000000000.0000	100000000000.0000 - 200000000000.0000	±200000000000.0000	±200000000000.0000	±200000000000.0000	±200000000000.0000
200000000000.0000 - 500000000000.0000	200000000000.0000 - 500000000000.0000	±500000000000.0000	±500000000000.0000	±500000000000.0000	±500000000000.0000
500000000000.0000 - 1000000000000.0000	500000000000.0000 - 1000000000000.0000	±1000000000000.0000	±1000000000000.0000	±1000000000000.0000	±1000000000000.0000
1000000000000.0000 - 2000000000000.0000	1000000000000.0000 - 2000000000000.0000	±2000000000000.0000	±2000000000000.0000	±2000000000000.0000	±2000000000000.0000
2000000000000.0000 - 5000000000000.0000	2000000000000.0000 - 5000000000000.0000	±5000000000000.0000	±5000000000000.0000	±5000000000000.0000	±5000000000000.0000
5000000000000.0000 - 10000000000000.0000	5000000000000.0000 - 10000000000000.0000	±10000000000000.0000	±10000000000000.0000	±10000000000000.0000	±10000000000000.0000
10000000000000.0000 - 20000000000000.0000	10000000000000.0000 - 20000000000000.0000	±20000000000000.0000	±20000000000000.0000	±20000000000000.0000	±20000000000000.0000
20000000000000.0000 - 50000000000000.0000	20000000000000.0000 - 50000000000000.0000	±50000000000000.0000	±50000000000000.0000	±50000000000000.0000	±50000000000000.0000
50000000000000.0000 - 100000000000000.0000	50000000000000.0000 - 100000000000000.0000	±100000000000000.0000	±100000000000000.0000	±100000000000000.0000	±100000000000000.0000
100000000000000.0000 - 200000000000000.0000	100000000000000.0000 - 200000000000000.0000	±200000000000000.0000	±200000000000000.0000	±200000000000000.0000	±200000000000000.0000
200000000000000.0000 - 500000000000000.0000	200000000000000.0000 - 500000000000000.0000	±500000000000000.0000	±500000000000000.0000	±500000000000000.0000	±500000000000000.0000
500000000000000.0000 - 1000000000000000.0000	500000000000000.0000 - 1000000000000000.0000	±1000000000000000.0000	±1000000000000000.0000	±1000000000000000.0000	±1000000000000000.0000
1000000000000000.0000 - 2000000000000000.0000	1000000000000000.0000 - 2000000000000000.0000	±2000000000000000.0000	±2000000000000000.0000	±2000000000000000.0000	±2000000000000000.0000
2000000000000000.0000 - 5000000000000000.0000	2000000000000000.0000 - 5000000000000000.0000	±5000000000000000.0000	±5000000000000000.0000	±5000000000000000.0000	±5000000000000000.0000
5000000000000000.0000 - 10000000000000000.0000	5000000000000000.0000 - 10000000000000000.0000	±10000000000000000.0000	±10000000000000000.0000	±10000000000000000.0000	±10000000000000000.0000
10000000000000000.0000 - 20000000000000000.0000	10000000000000000.0000 - 20000000000000000.0000	±20000000000000000.0000	±20000000000000000.0000	±20000000000000000.0000	±20000000000000000.0000
20000000000000000.0000 - 50000000000000000.0000	20000000000000000.0000 - 50000000000000000.0000	±50000000000000000.0000	±50000000000000000.0000	±50000000000000000.0000	±50000000000000000.0000
50000000000000000.0000 - 100000000000000000.0000	50000000000000000.0000 - 100000000000000000.0000	±100000000000000000.0000	±100000000000000000.0000	±100000000000000000.0000	±100000000000000000.0000
100000000000000000.0000 - 200000000000000000.0000	100000000000000000.0000 - 200000000000000000.0000	±200000000000000000.0000	±200000000000000000.0000	±200000000000000000.0000	±200000000000000000.0000
200000000000000000.0000 - 500000000000000000.0000	200000000000000000.0000 - 500000000000000000.0000	±500000000000000000.0000	±500000000000000000.0000	±500000000000000000.0000	±500000000000000000.0000
500000000000000000.0000 - 1000000000000000000.0000	500000000000000000.0000 - 1000000000000000000.0000	±1000000000000000000.0000	±1000000000000000000.0000	±1000000000000000000.0000	±1000000000000000000.0000
1000000000000000000.0000 - 2000000000000000000.0000	1000000000000000000.0000 - 2000000000000000000.0000	±2000000000000000000.0000	±2000000000000000000.0000	±2000000000000000000.0000	±2000000000000000000.0000
2000000000000000000.0000 - 5000000000000000000.0000	2000000000000000000.0000 - 5000000000000000000.0000	±5000000000000000000.0000	±5000000000000000000.0000	±5000000000000000000.0000	±5000000000000000000.0000
5000000000000000000.0000 - 10000000000000000000.0000	5000000000000000000.0000 - 10000000000000000000.0000	±10000000000000000000.0000	±10000000000000000000.0000	±10000000000000000000.0000	±10000000000000000000.0000
10000000000000000000.0000 - 20000000000000000000.0000	10000000000000000000.0000 - 20000000000000000000.0000	±20000000000000000000.0000	±20000000000000000000.0000	±200000	

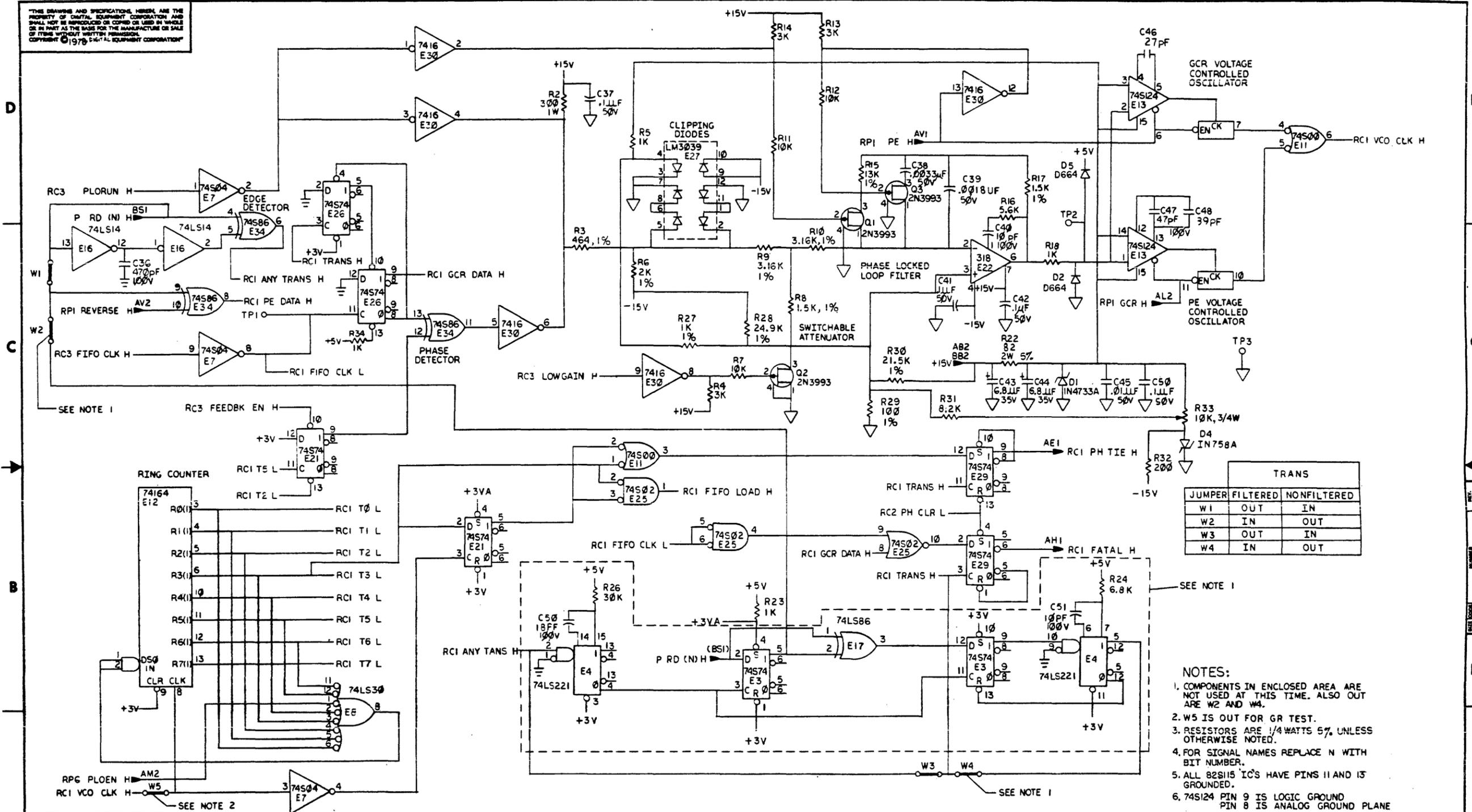
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	B-DD-M8956-0	M8956-00	TM78, MASSBUS DATA PORT, QUAD	1
2	2	B-DD-M8957-0-0	M8957-00	TM78, MASSBUS CONTROL, QUAD	1
3	3	D-AD-7009938-0-0	7009938-00	TERMINATOR ASSEMBLY (80-RJP04)	1
4	4		9906084-13	CARTON, DIE CUT, SELF LOCK	REF
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.:	J. HESS	DATE:	02-DEC-80	DOCUMENT NUMBER			
			[C]	MFG. ENG.:	P. BARTON	DATE:	02-DEC-80	SIZE:	CODE:	NUMBER	REV
			[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K	PL	TM78-C-DBP	B
			[E]							FILE NAME:	EDIT #
			[F]							Z1810B.PLS	4

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CHK HH.43

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- 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 82S115 IC'S HAVE PINS 11 AND 13 GROUNDED.
 - 74LS124 PIN 9 IS LOGIC GROUND PIN 8 IS ANALOG GROUND PLANE

REV.	DATE	BY	CHKD
1	11/17/78	W. J. GILLET	R. OUELLETTE
2	12/17/78	W. J. GILLET	R. OUELLETTE
3	1/17/79	W. J. GILLET	R. OUELLETTE
4	2/17/79	W. J. GILLET	R. OUELLETTE
5	3/17/79	W. J. GILLET	R. OUELLETTE
6	4/17/79	W. J. GILLET	R. OUELLETTE
7	5/17/79	W. J. GILLET	R. OUELLETTE
8	6/17/79	W. J. GILLET	R. OUELLETTE
9	7/17/79	W. J. GILLET	R. OUELLETTE
10	8/17/79	W. J. GILLET	R. OUELLETTE
11	9/17/79	W. J. GILLET	R. OUELLETTE
12	10/17/79	W. J. GILLET	R. OUELLETTE
13	11/17/79	W. J. GILLET	R. OUELLETTE
14	12/17/79	W. J. GILLET	R. OUELLETTE
15	1/17/80	W. J. GILLET	R. OUELLETTE
16	2/17/80	W. J. GILLET	R. OUELLETTE
17	3/17/80	W. J. GILLET	R. OUELLETTE
18	4/17/80	W. J. GILLET	R. OUELLETTE
19	5/17/80	W. J. GILLET	R. OUELLETTE
20	6/17/80	W. J. GILLET	R. OUELLETTE
21	7/17/80	W. J. GILLET	R. OUELLETTE
22	8/17/80	W. J. GILLET	R. OUELLETTE
23	9/17/80	W. J. GILLET	R. OUELLETTE
24	10/17/80	W. J. GILLET	R. OUELLETTE
25	11/17/80	W. J. GILLET	R. OUELLETTE
26	12/17/80	W. J. GILLET	R. OUELLETTE
27	1/17/81	W. J. GILLET	R. OUELLETTE
28	2/17/81	W. J. GILLET	R. OUELLETTE
29	3/17/81	W. J. GILLET	R. OUELLETTE
30	4/17/81	W. J. GILLET	R. OUELLETTE
31	5/17/81	W. J. GILLET	R. OUELLETTE
32	6/17/81	W. J. GILLET	R. OUELLETTE
33	7/17/81	W. J. GILLET	R. OUELLETTE
34	8/17/81	W. J. GILLET	R. OUELLETTE
35	9/17/81	W. J. GILLET	R. OUELLETTE
36	10/17/81	W. J. GILLET	R. OUELLETTE
37	11/17/81	W. J. GILLET	R. OUELLETTE
38	12/17/81	W. J. GILLET	R. OUELLETTE
39	1/17/82	W. J. GILLET	R. OUELLETTE
40	2/17/82	W. J. GILLET	R. OUELLETTE
41	3/17/82	W. J. GILLET	R. OUELLETTE
42	4/17/82	W. J. GILLET	R. OUELLETTE
43	5/17/82	W. J. GILLET	R. OUELLETTE
44	6/17/82	W. J. GILLET	R. OUELLETTE
45	7/17/82	W. J. GILLET	R. OUELLETTE
46	8/17/82	W. J. GILLET	R. OUELLETTE
47	9/17/82	W. J. GILLET	R. OUELLETTE
48	10/17/82	W. J. GILLET	R. OUELLETTE
49	11/17/82	W. J. GILLET	R. OUELLETTE
50	12/17/82	W. J. GILLET	R. OUELLETTE

DRN	W. J. GILLET	2/17/78	FIRST USED ON	TM78	digital
CHK	R. OUELLETTE	9/17/78	TITLE	READ CHANNEL	
ENG	W. J. GILLET	12/17/78	PROD. ENG.	12/17/78	
PROD. ENG.	W. J. GILLET	12/17/78	PROD. FOR	12/17/78	
NEXT HIGHER ASSY.					
B-00-M8950-0			SIZE	CODE	NUMBER
SCALE			D	CS	M8950-0-1
SHEET			OF	3	DIST.

SEE NOTE 1

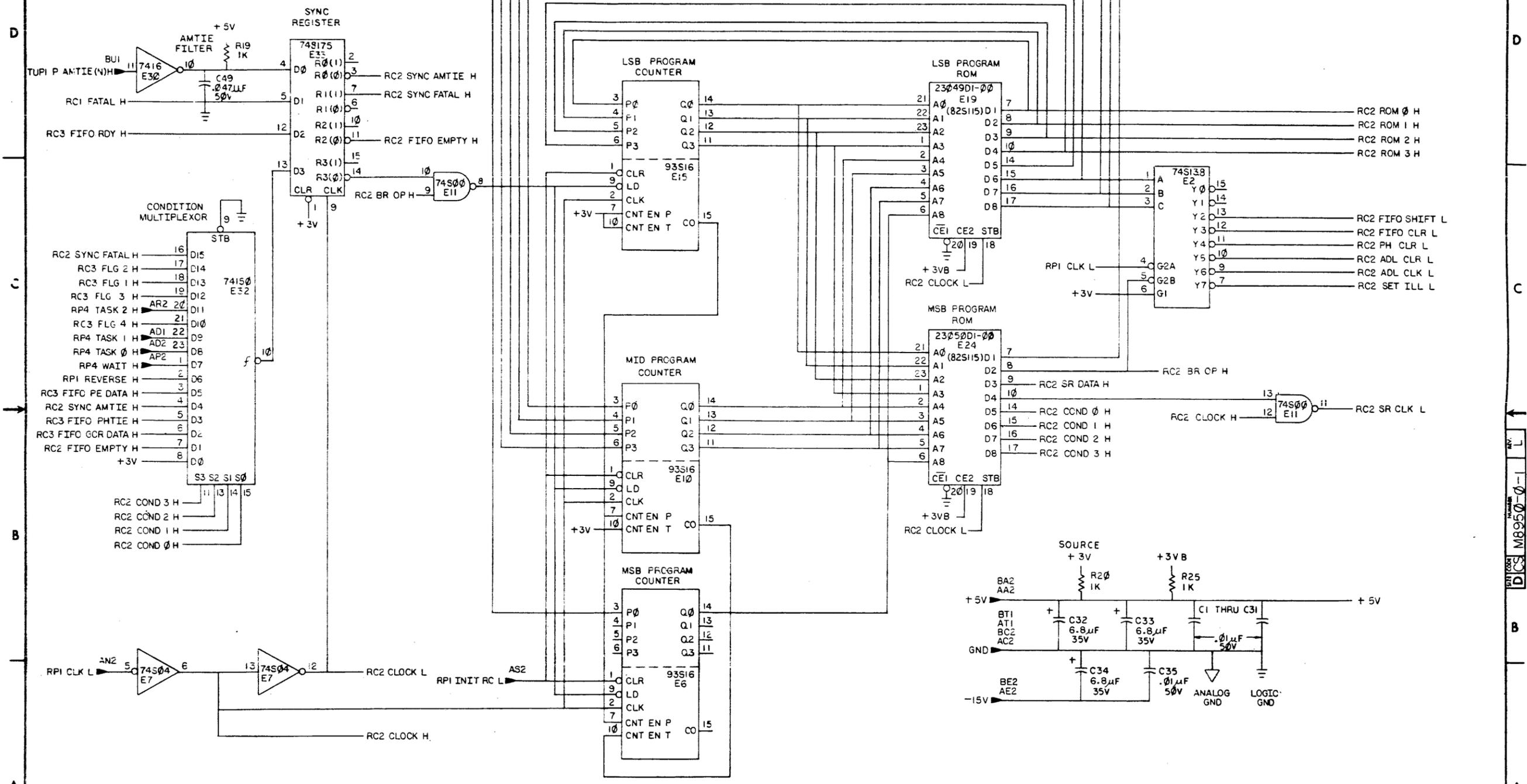
SEE NOTE 2

SEE NOTE 1

SEE NOTE 1

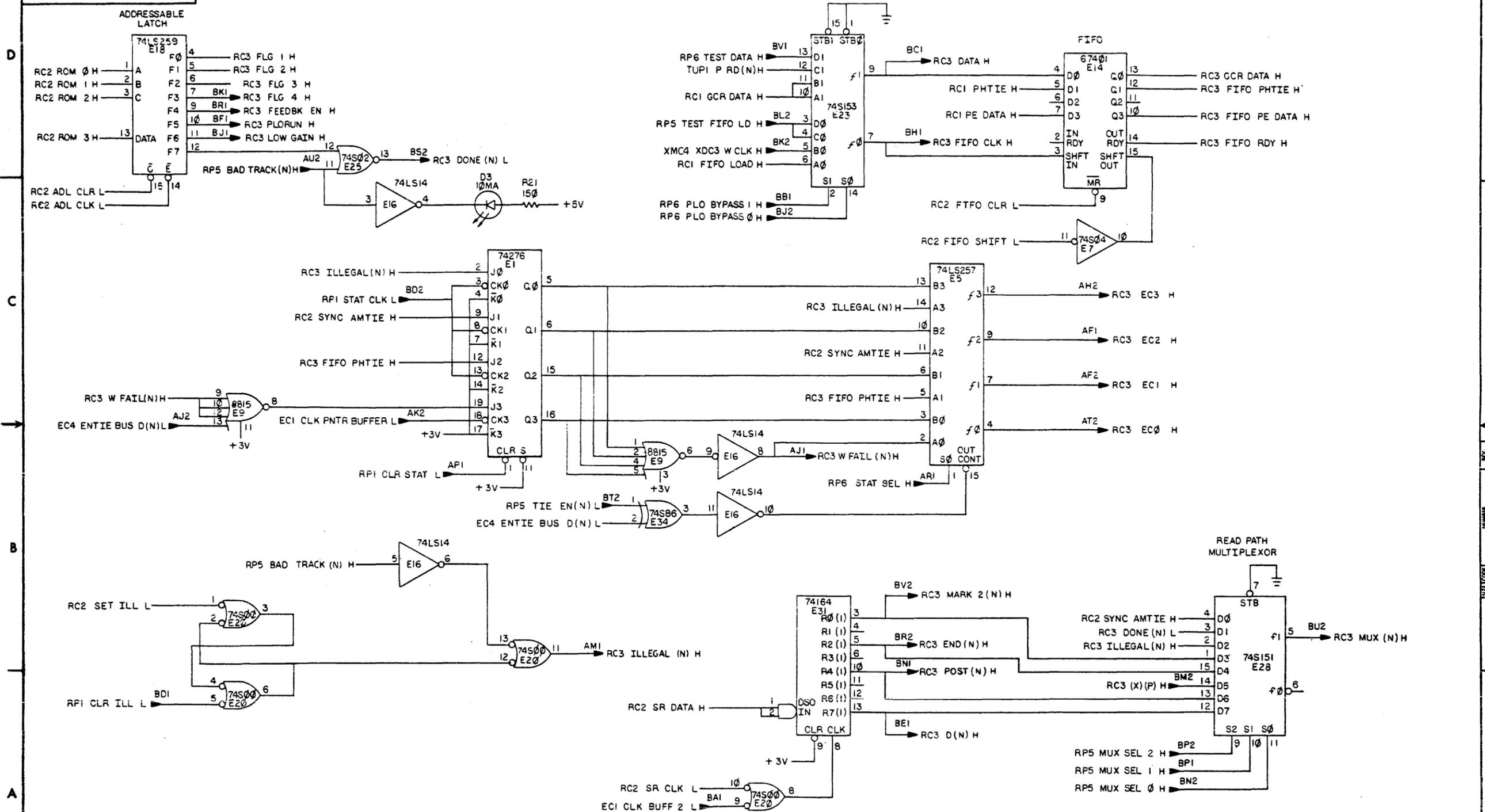
SEE NOTE 1

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REVISIONS		
CHK	CHANGE NO.	REV.

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REVISIONS		
CHK	CHANGE NO.	REV.

REV. L
NUMBER M8950-0-1
DCS

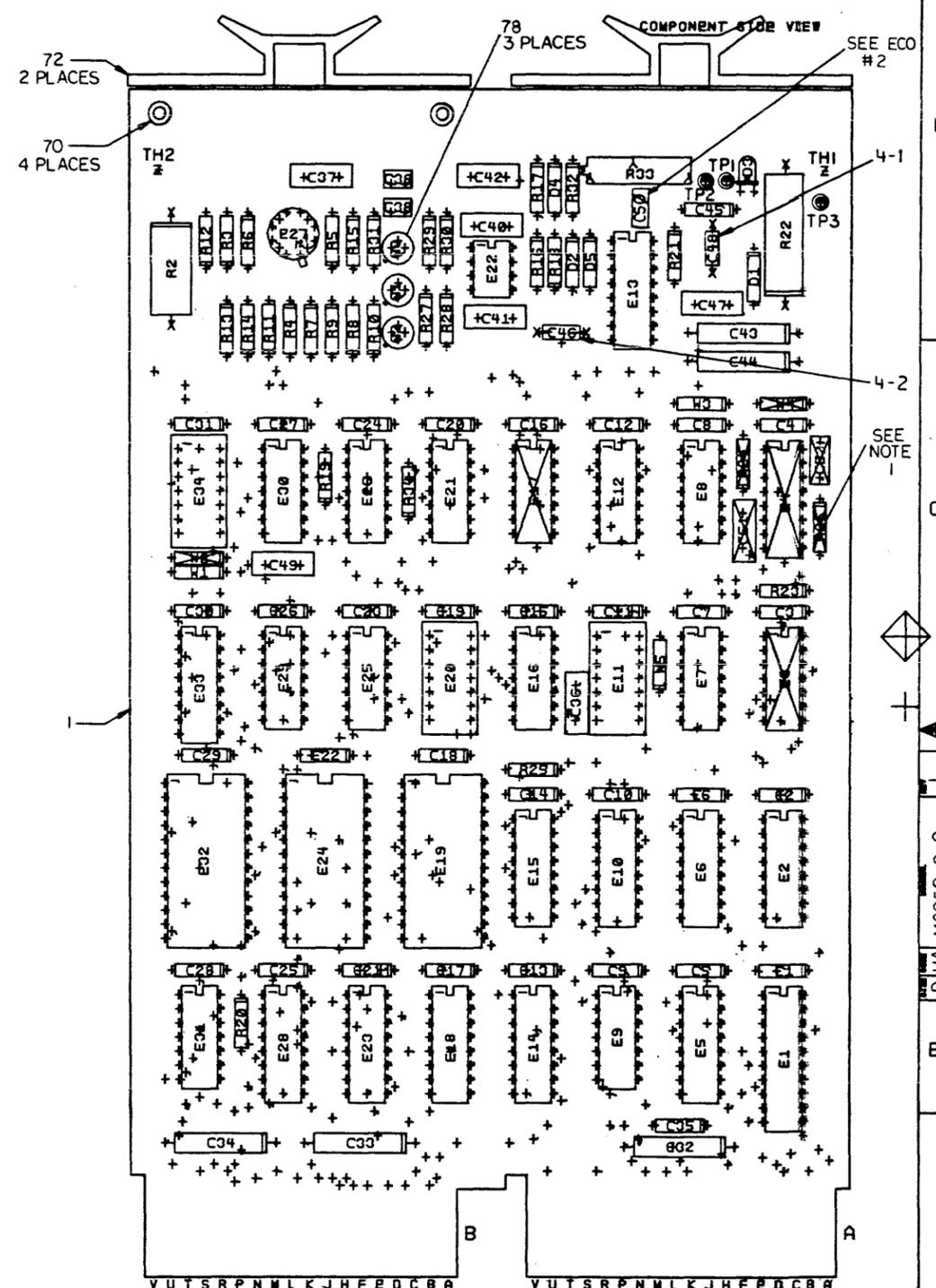
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ECO #2 REWORK

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	STEP	TIMES

CHANGE NO	REV	DATE	BY	CHK'D
1	J		ANGEL COLON	
2	K		D. J. JERVIS	
3	L		R. GILLET	
4	M		R. GILLET	
5	N		R. GILLET	
6	O		R. GILLET	

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

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

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
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 <td>DATE:</td> <td>23-OCT-78 <td colspan="2">READ CHANNEL</td> </td>	DATE:	23-OCT-78 <td colspan="2">READ CHANNEL</td>	READ CHANNEL	
DJ	M8950-ML001	J	[A]	00	RESP.ENG.:	D. JERVIS <td>DATE:</td> <td>28-AUG-79 <td colspan="2">DOCUMENT NUMBER</td> </td>	DATE:	28-AUG-79 <td colspan="2">DOCUMENT NUMBER</td>	DOCUMENT NUMBER	
RG	M8950-ML002	K	[B]		MFG.ENG.:	P. BARTON <td>DATE:</td> <td>28-AUG-79 <td>SIZE: K</td> <td>CODE: PL</td> </td>	DATE:	28-AUG-79 <td>SIZE: K</td> <td>CODE: PL</td>	SIZE: K	CODE: PL
R.O	M8950-SH004	L	[C]		ASSEMBLY NUMBER:	D-UA-M8950-0-0 <td>TOP DOCUMENT NUMBER:</td> <td>#8-DD-M8950-0 <td>NUMBER: M8950-0-DBP</td> <td>REV: L</td> </td>	TOP DOCUMENT NUMBER:	#8-DD-M8950-0 <td>NUMBER: M8950-0-DBP</td> <td>REV: L</td>	NUMBER: M8950-0-DBP	REV: L
			[D]		FILE NAME:	Z0861L.PLS	EDIT #:	23		
			[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) 1983. DIGITAL EQUIPMENT CORPORATION"					
			[F]							
			[G]							
			[H]							
			[I]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1302858-00	100.0 .25 W 1.0 * RN55D-F10	1	R29
32	32		1303045-00	3.16 K .25 W 1.0 * RN55D-F10	2	R9,R10
33	33		1303047-00	464.0 .25 W 1.0 * RN55D-F10	1	R3
34	34		1303114-00	1.0 K .25 W 1.0 * RN55D-F10	1	R27
35	35		1303155-00	21.50 K .25 W 1.0 * RN55D-F10	1	R30
36	36		1303179-00	8.20 K .25 W 5.0 * CF	1	R31
37	37		1305405-00	24.90 K .25 W 1.0 * RN55D-F10	1	R28
38	38		1309143-10	10.0 K .75 W10.0 * POT	1	R33
39	39		1310635-00	13.0 K .25 W 1.0 * RN55D-F10	1	R15
40	40		1311522-00	200.0 .25 W 5.0 * CF	1	R32
41	41		1313590-00	1.50 K .25 W 1.0 * RN55D-F10	2	R8,R17
42	42		1514775-00	2N 3993 FET 300MW SIP CHNNL	3	Q1-Q3
43	43		1909713-00	DEC 8815 NOR GATE-DUAL 4IN	1	E9
44	44		1909928-00	7416 INVERTER GATE-HEX 1I	1	E30
45	45		1910041-00	DEC 74164 SHIFT REG.,8BIT SERI	2	E31,E12
46	46		1910153-00	DEC 74150 MUX 1 OF 16	1	E32
47	47		1910532-00	74500 NAND GATE-QUAD 2IN	2	E11,E20
48	48		1910534-00	74504 INVERTER GATE-HEX 1I	1	E7
49	49		1910544-00	74574 FF-D DUAL,EDGE TRIGG	3	E21,E26,E29
50	50		1910735-02	318 OP AMP	1	E22
51	51		1910956-00	74S151 MUX 1 OF 8	1	E28
52	52		1910957-00	74S175 FF-D QUAD COMMON CLO	1	E33
53	53		1911675-00	74S138 DECODER/DEMUX 3-8 LI	1	E2
54	54		1911911-00	DEC 74S124 OSCILLATOR,DUAL VOLT	1	E13
55	55		1912096-00	DEC 74S86 XOR GATE,QUAD 2IN	1	E34
56	56		1912388-00	74S02 NOR GATE-QUAD 2IN,PO	1	E25
57	57		1912647-00	LS257 MUX 1 OF 2 (QUAD)	1	E5
58	58		1912665-00	*** THIS ITEM IS NOT USED ***	-	
59	59		1912815-00	LS30 NAND GATE-SINGLE 8IN	1	E8
60	60		1912829-00	*** THIS ITEM IS NOT USED ***	-	
61	61		1910547-00	74S153 MUX 1 OF 4 (DUAL)	1	E23
62	62		1912858-00	*** THIS ITEM IS NOT USED ***	-	
63	63		1912860-00	LS259 LATCH 8BIT	1	E18
64	64		1913294-00	93S16 COUNTER,SYNCH UP BIN	3	E6,E10,E15
65	65		1913414-00	LS14 INVERTER GATE-HEX SC	1	E16
66	66		1914768-00	C 67401J MEMORY FIFO,SERIAL	1	E14
67	67		1915367-00	74276 FF-JK QUAD	1	E1
68	68		23049D1-00	D1-02	1	E19
69	69		23050D1-00	D1-02	1	E24
70	70		9006732-00	EYELET,ROLLED 0.1210DX0.219	4	
71	71		9007791-00	TERM PCB 2POS SOLDER,TURRET	3	TP1-TP3
72	72		9008337-06	HANDLE, FLIP CHIP, MAGENTA	2	
73	73		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	3	W1,W3,W5
74	74	D-UA-M8950-0-0		UNIT ASSY	REF	
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	3	

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

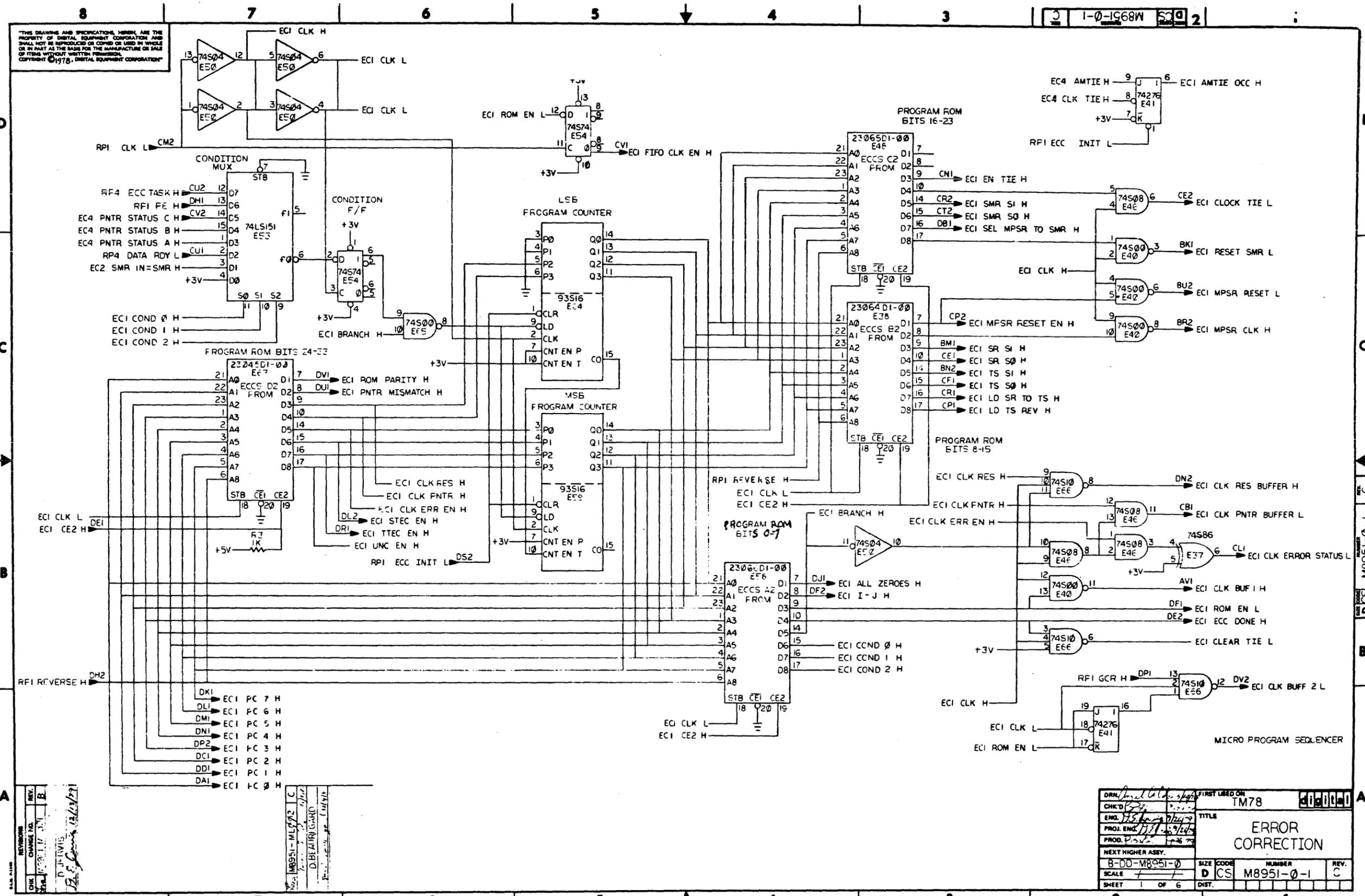
AUTOMATED BY PRTLST.2E(3)

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-IG68W SC 2

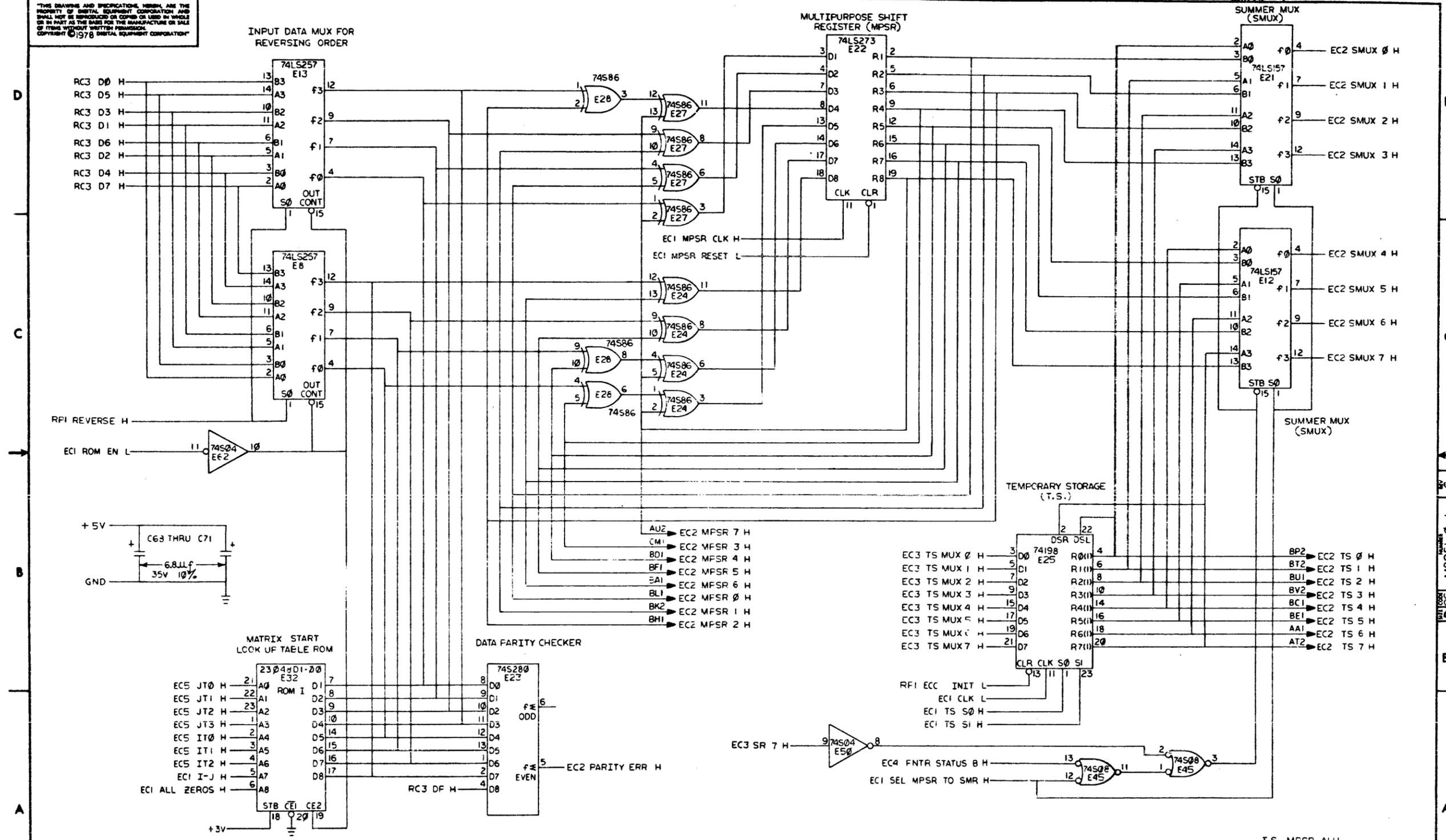
REV. 1	DATE 11/17/77	BY J. J. L. W. S.
REV. 2	DATE 12/13/77	BY J. J. L. W. S.

M8951-01072 C
D. B. L. W. S.
D. B. L. W. S.

DRN: 100-100-100	FIRST USED ON: TM78
CHK'D: [Signature]	TITLE: ERROR CORRECTION
ENGR: [Signature]	SIZE CODE: D CS
PROJ. ENG: [Signature]	NUMBER: M8951-0-1
PROD. DES: [Signature]	REV. C
NEXT HIGHER ASSY.:	SCALE: 1 OF 6
B-00-M8951-0	DIST.:

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1-0-1968W 500 2



REVISIONS		
CHK	CHANGE NO.	REV.

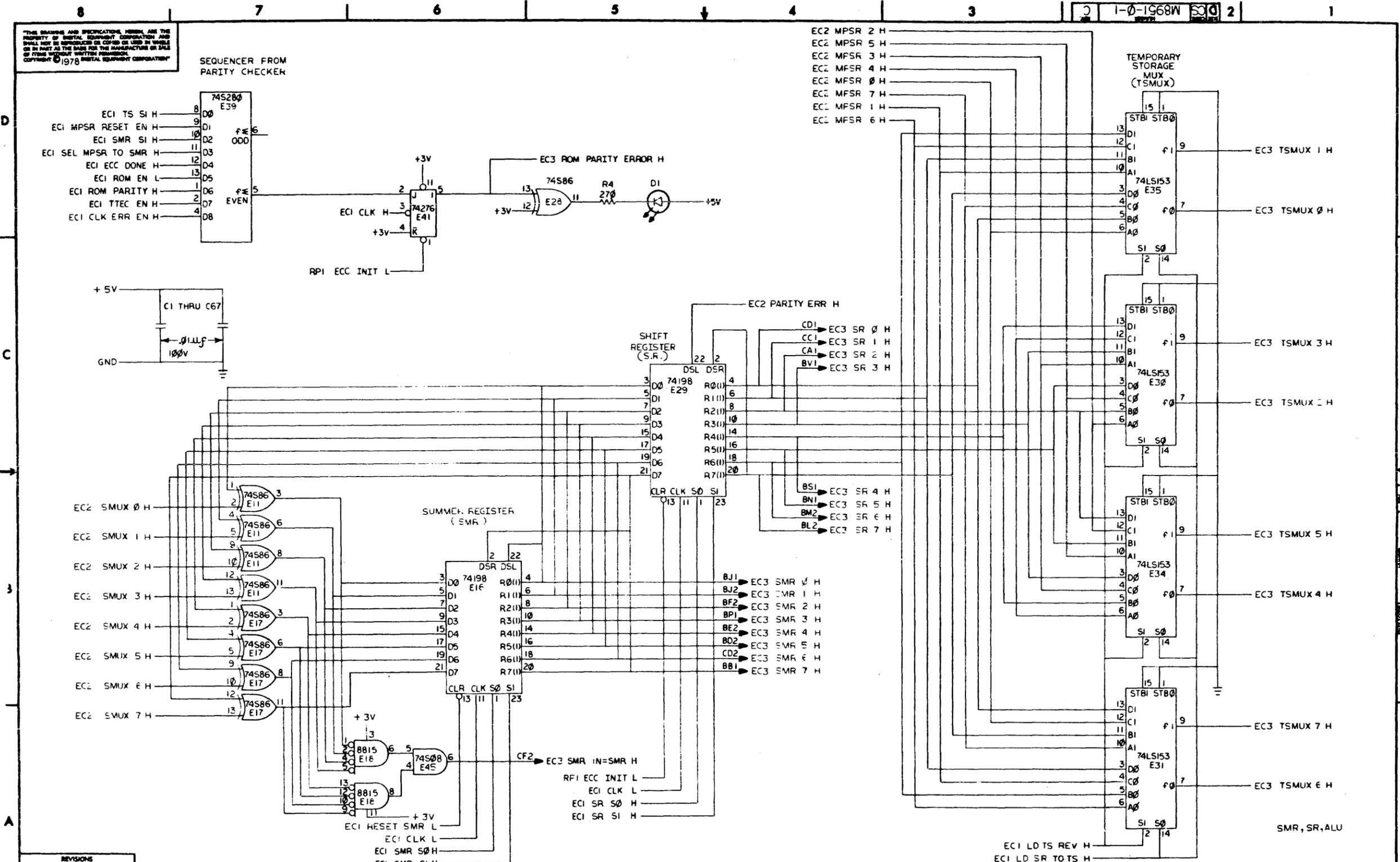
DEC FORM NO. 100 1.00	8	7	6	5	4	3	2	1	
TITLE ERROR CORRECTION							SIZE CODE D CS	NUMBER M8951-0-1	REV. C
SCALE							SHEET 2 OF 6	DIST.	

M8951-0-1

B

A

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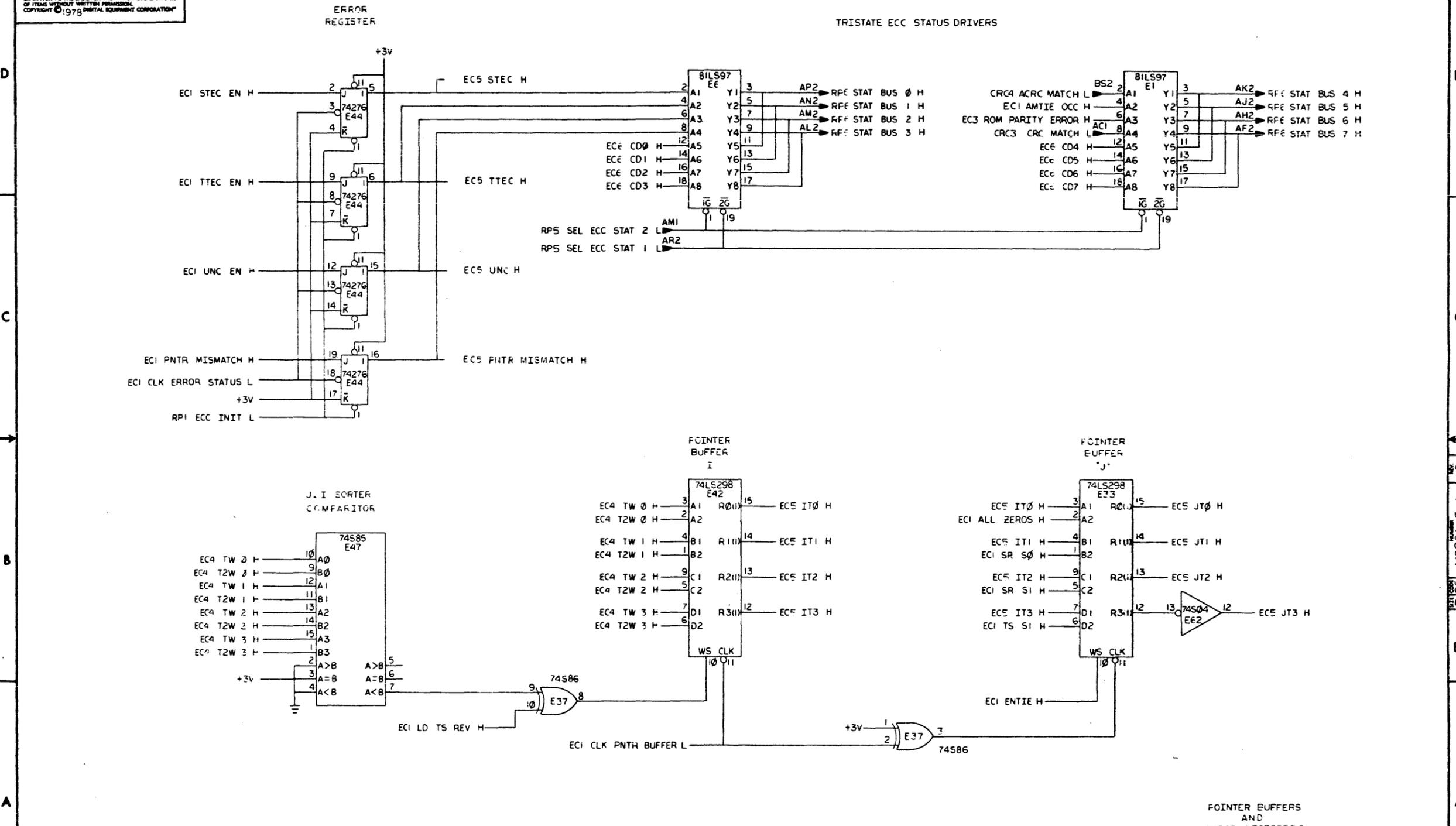
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	ERROR CORRECTION	SIZE CODE	D CS	NUMBER	M8951-0-1	REV.	C
SCALE	1:1	SHEET	3	OF	6	DIST.	

D CS M8951-0-1

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1-0-1968W SQ 2

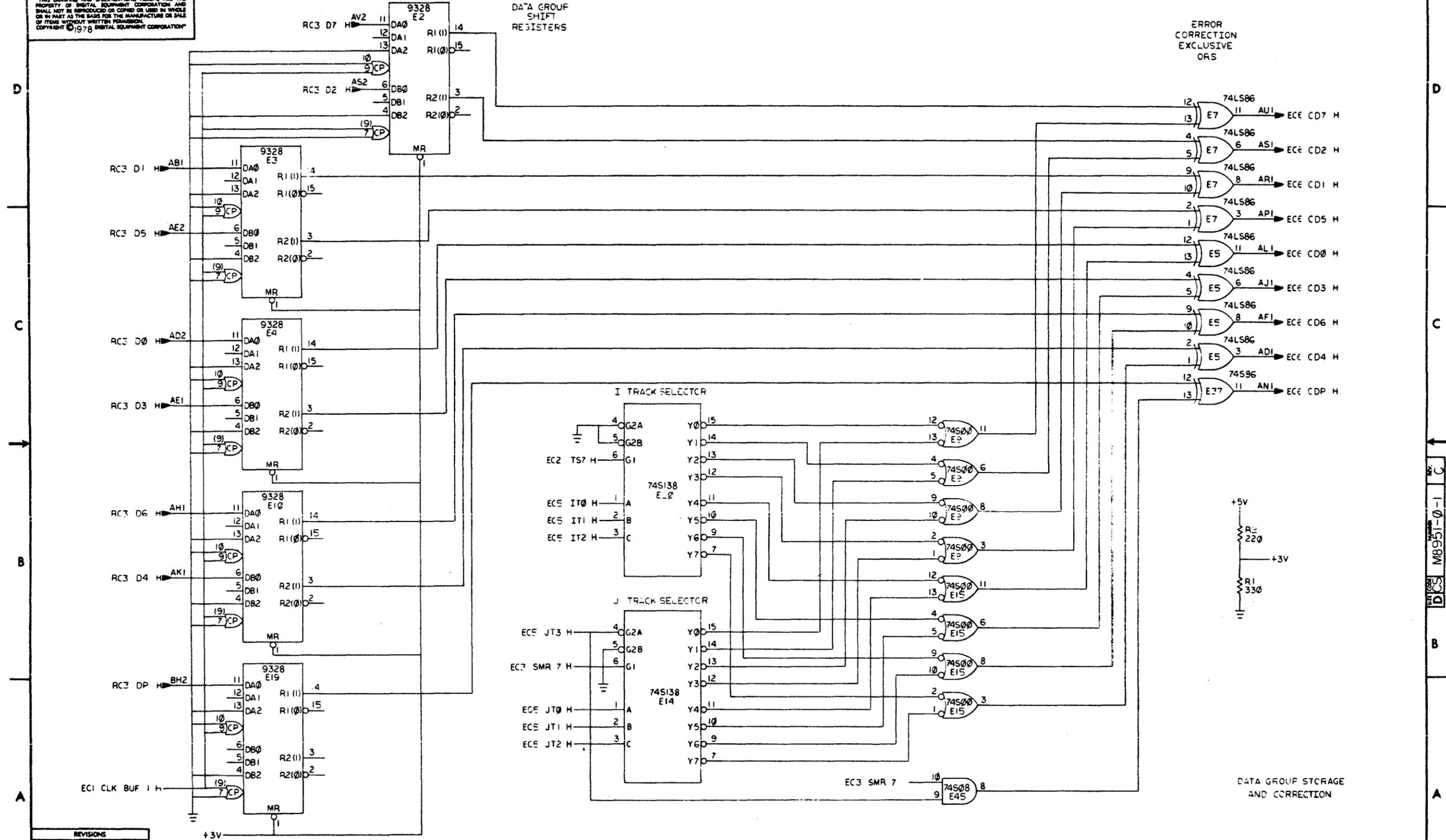


FOINTER BUFFERS AND ERROR REGISTERS

REVISIONS		
CHK	CHANGE NO.	REV.

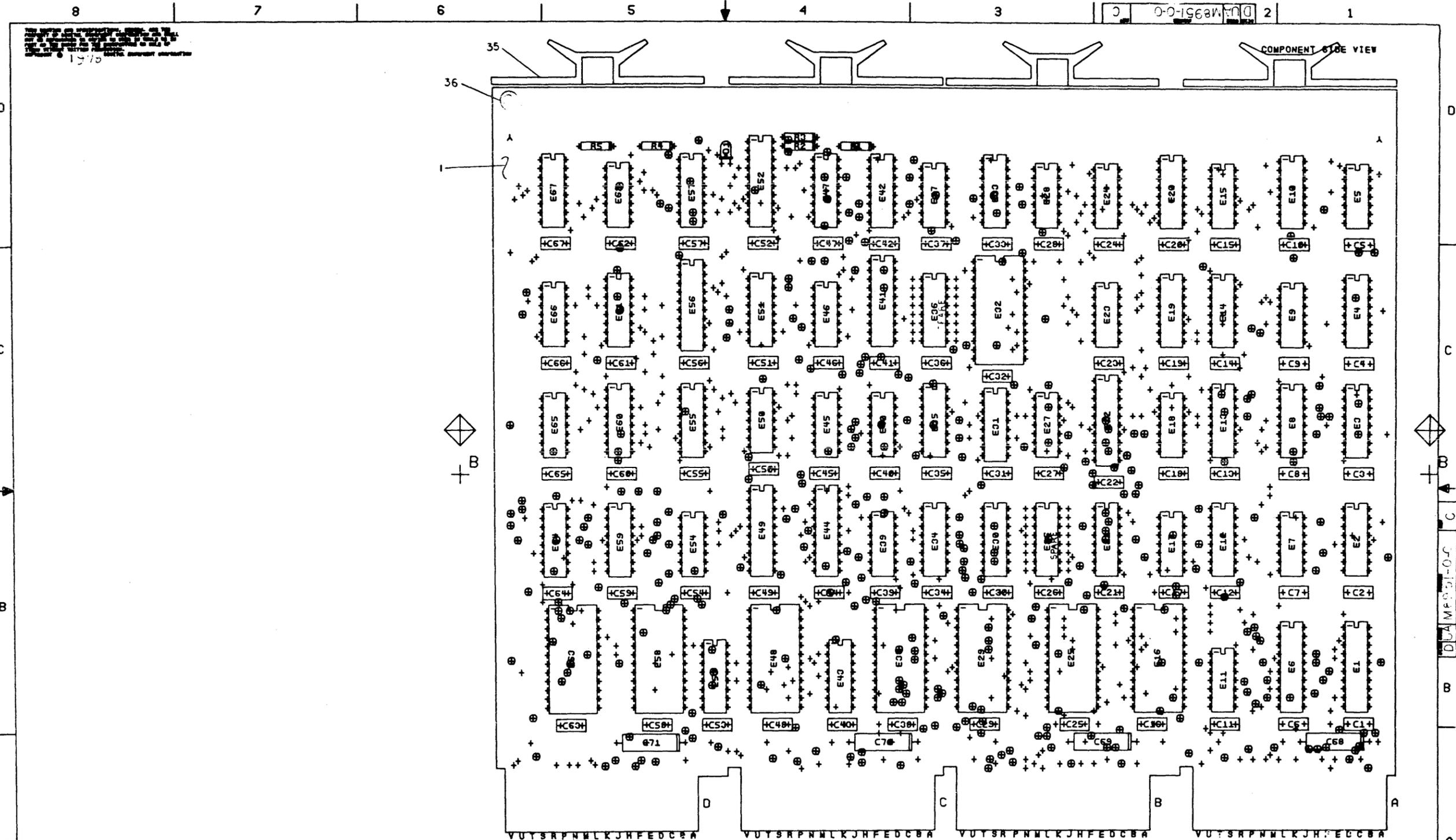
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SCALE	1:1	SHEET	5 OF 6	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

D CS M8951-0-1



NOTES:

CHG	NO	REV	DATE	BY	CHK'D
1	1	1	10/1/79	D. JETTY	
2	1	1	10/1/79	D. JETTY	
3	1	1	10/1/79	D. JETTY	
4	1	1	10/1/79	D. JETTY	
5	1	1	10/1/79	D. JETTY	
6	1	1	10/1/79	D. JETTY	
7	1	1	10/1/79	D. JETTY	
8	1	1	10/1/79	D. JETTY	

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

SIGNATURES	DATE
DRN. <i>[Signature]</i>	9-26-79
CHK'D. <i>[Signature]</i>	9-26-79
ENG. <i>[Signature]</i>	9-26-79
PROJ. ENG. <i>[Signature]</i>	9-26-79
PROD. <i>[Signature]</i>	9-26-79
SCALE 27	
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NEXT HIGHER ASSY. 13-0-1895-0	

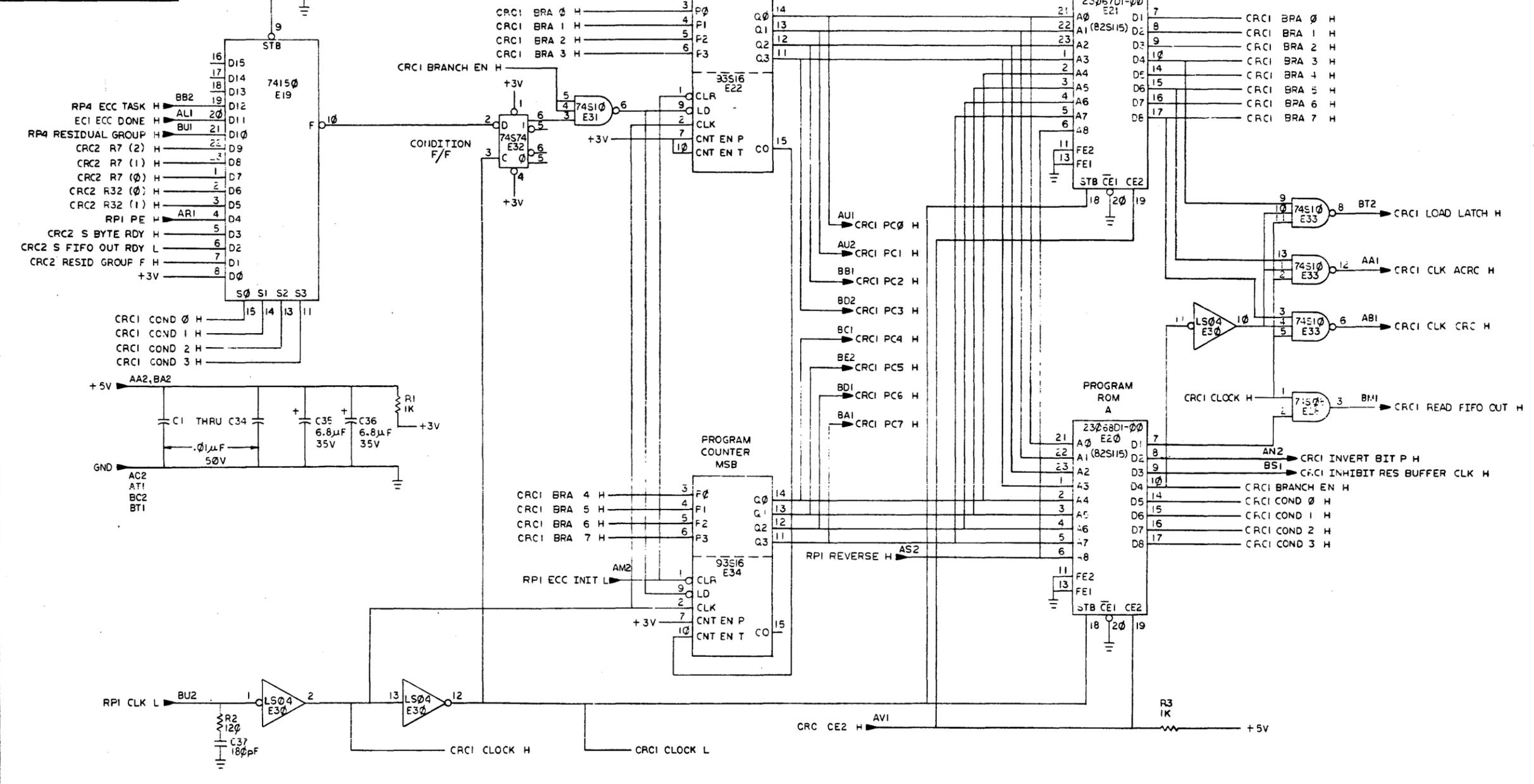
digital	
TITLE	EPROM CORRECTION
SIZE	0 UA M8951-C-0
CODE	
NUMBER	
REV	C

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
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	74500 NAND GATE-QUAD 2IN	4	E9,E15,E40,E65
13	13	1910534-00	74504 INVERTER GATE-HEX 1I	2	E50,E62
14	14	1910544-00	74574 FF-D DUAL,EDGE TRIGG	1	E54
15	15	1911392-00	74198 SHIFT REGISTER 8BIT	3	E16,E25,E29
16	16	1911573-00	745280 PARITY GEN/CHKR,9BIT	2	E23,E39
17	17	1911675-00	745138 DECODER/DEMUX 3-8 LIN	3	E14,E20,E43
18	18	1912089-00	74585 CMPRTR-4BIT MAGNITUD	3	E47,E57,E60
19	19	1912095-00	DEC 74586 XOR GATE,QUAD 2IN	6	E11,E17,E24,E27,E28,E37
20	20	1912387-00	74508 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	74510 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	D I G I T A L			
ENG!	ECO NUMBER	REV	SECTION A OF A	CHK'D:	C.BEVERLIE	DATE:	07-APR-78	TITLE PARTS LIST			
---	INIT	A	SECTION,VARIATION INDEX	CHK'D:	C.BEVERLIE	DATE:	07-APR-78	ERROR CORRECTION			
DJ	M8951-ML001	B	[A] 00	DES.ENG:	J.HESS	DATE:	10-AUG-79	DOCUMENT NUMBER			
DB	M8951-ML002	C	[B]	RESP.ENG.:	D.JERVIS	DATE:	10-AUG-79	SIZE	CODE	NUMBER	REV
			[C]	MFG.ENG.:	P.BARTON	DATE:	10-AUG-79	K	PL	M8951-0-DBP	C
			[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #!	
			[E]	D-UA-M8951-0-0		#B-DD-M8951-0		Z0810C.PLS		17	
			[F]								
			[G]								
			[H]								
			[I]								
			[J]								
			[K]								
			[L]								
			[M]								
			[N]								

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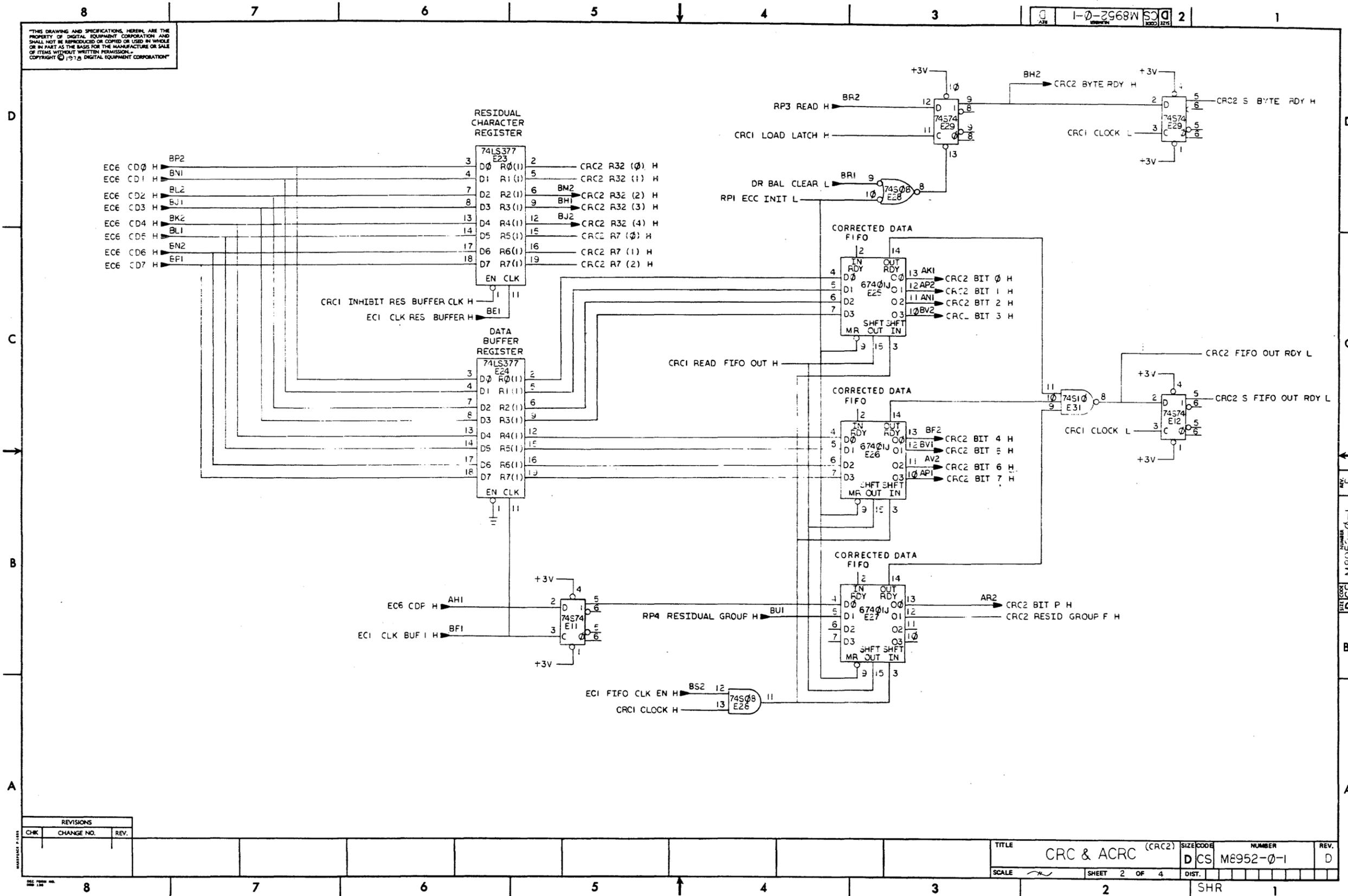


REV.	CHANGED BY	DATE
B	ML001	12/10/75
C	ML002	1/14/76
D	SH003	1/14/76

DAVID JERVIS
D. BEAUREGARD
R. COUELLETTE

DRN. DATE: 4/4/75	FIRST USED ON: TM78	digital
CHK'D BY: H/26/75	TITLE: (CRCI)	
ENG. BY: J. J. J. 10/12/75	CRC & ACRC	
PROJ. ENG. BY: J. J. J. 10/16/75	NEXT HIGHER ASSY.	
SCALE: NONE	SIZE CODE: D	NUMBER: CS M8952-0-1
SHEET: 1 OF 4	DIST.	REV. D

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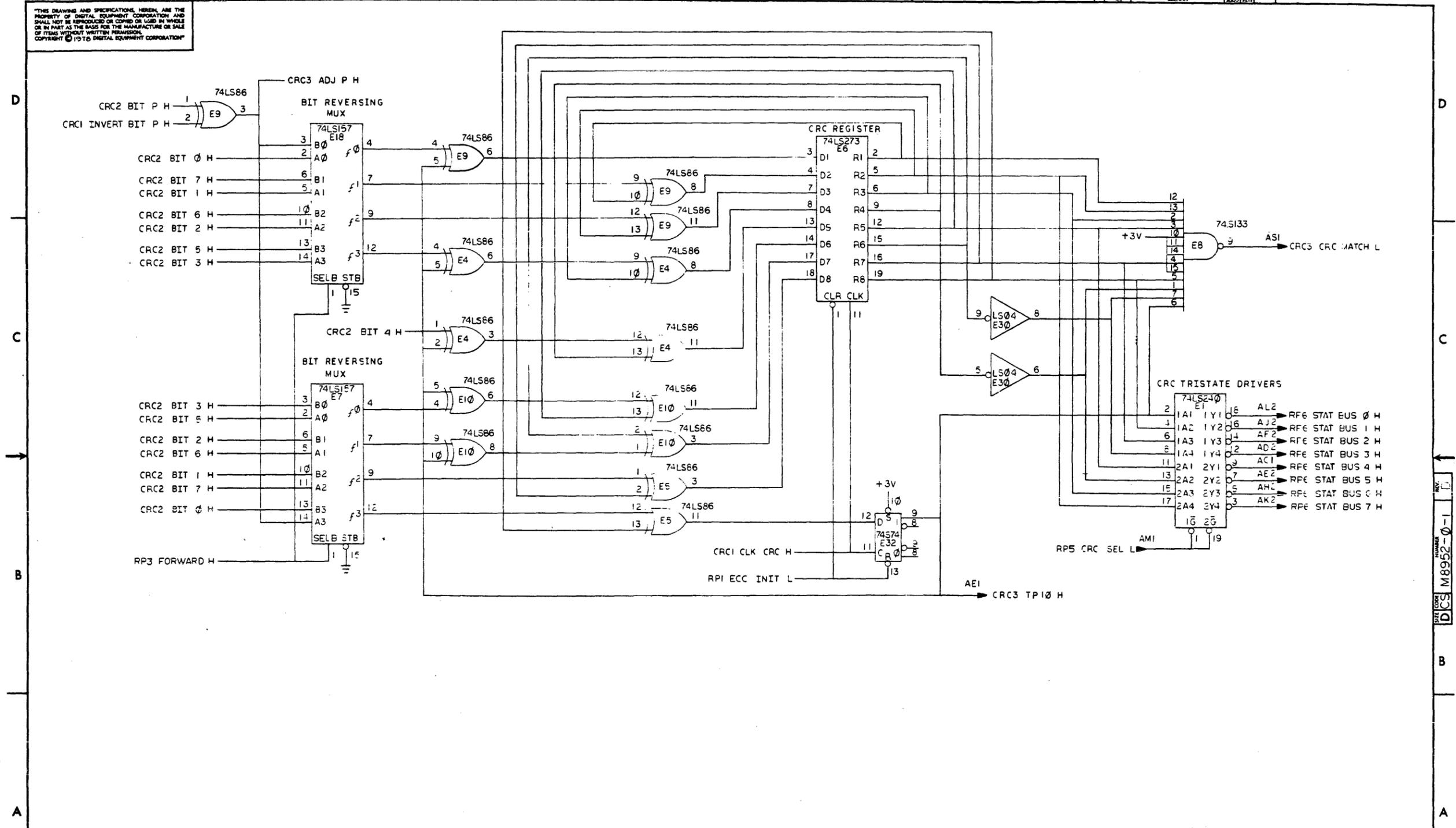
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	CRC & ACRC (CRC2)	SIZE/COO	NUMBER	REV.
SCALE	SHEET 2 OF 4	D CS	M8952-0-1	D

REV. 1
NUMBER M8952-0-1
D CS

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1-0-2668M SCD 2

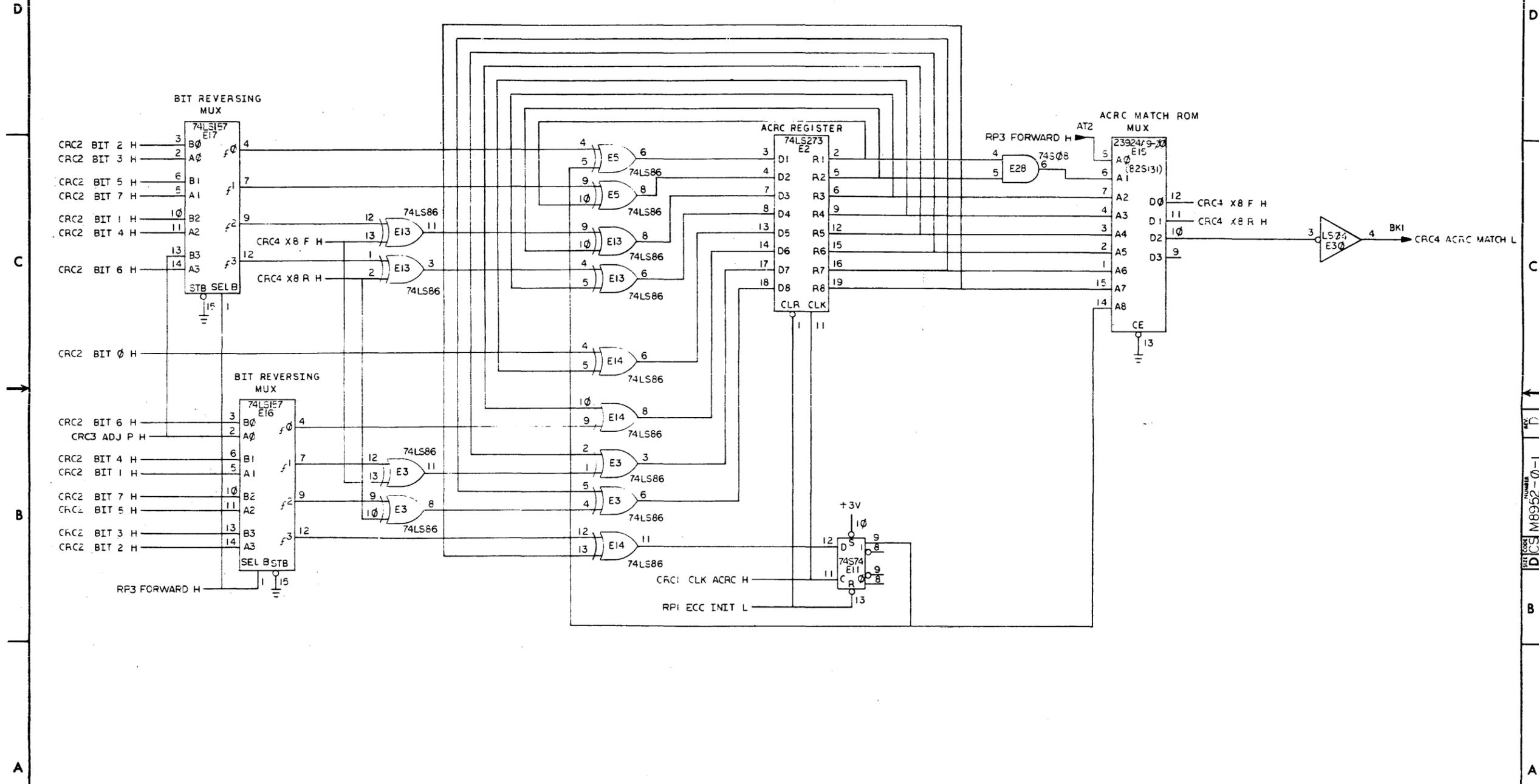


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	(CRC3)	SIZE/CODE	NUMBER	REV.
CRC & ACRC		DCS	M8952-0-1	D
SCALE		SHEET	3 OF 4	DIST.
			SHR	

REV. 1
M8952-0-1

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AUXILIARY CRC CHECKER

REVISIONS		
CHK	CHANGE NO.	REV.

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

D CS M8952-0-1

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D 0-0-ZG68W 2

FIRST RELEASE: M8952

REWORK INSTRUCTIONS:

- R-1. DRILL A HOLE, #49 DRILL AT SHOWN LOCATION.
- R-2. INSTALL A GRIPLET IN DRILLED HOLE (47479).
- R-3. PUT SLEEVING ON ONE END OF A 120Ω 1/4 WATT RESISTOR - R2(1300295).
- R-4. SOLDER THE SLEEVED SIDE OF RESISTOR IN FEED-THRU AS SHOWN. NOTE: FEED-THRU SHOULD ALREADY CONNECT TO E30-1.
- R-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).
- R-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:

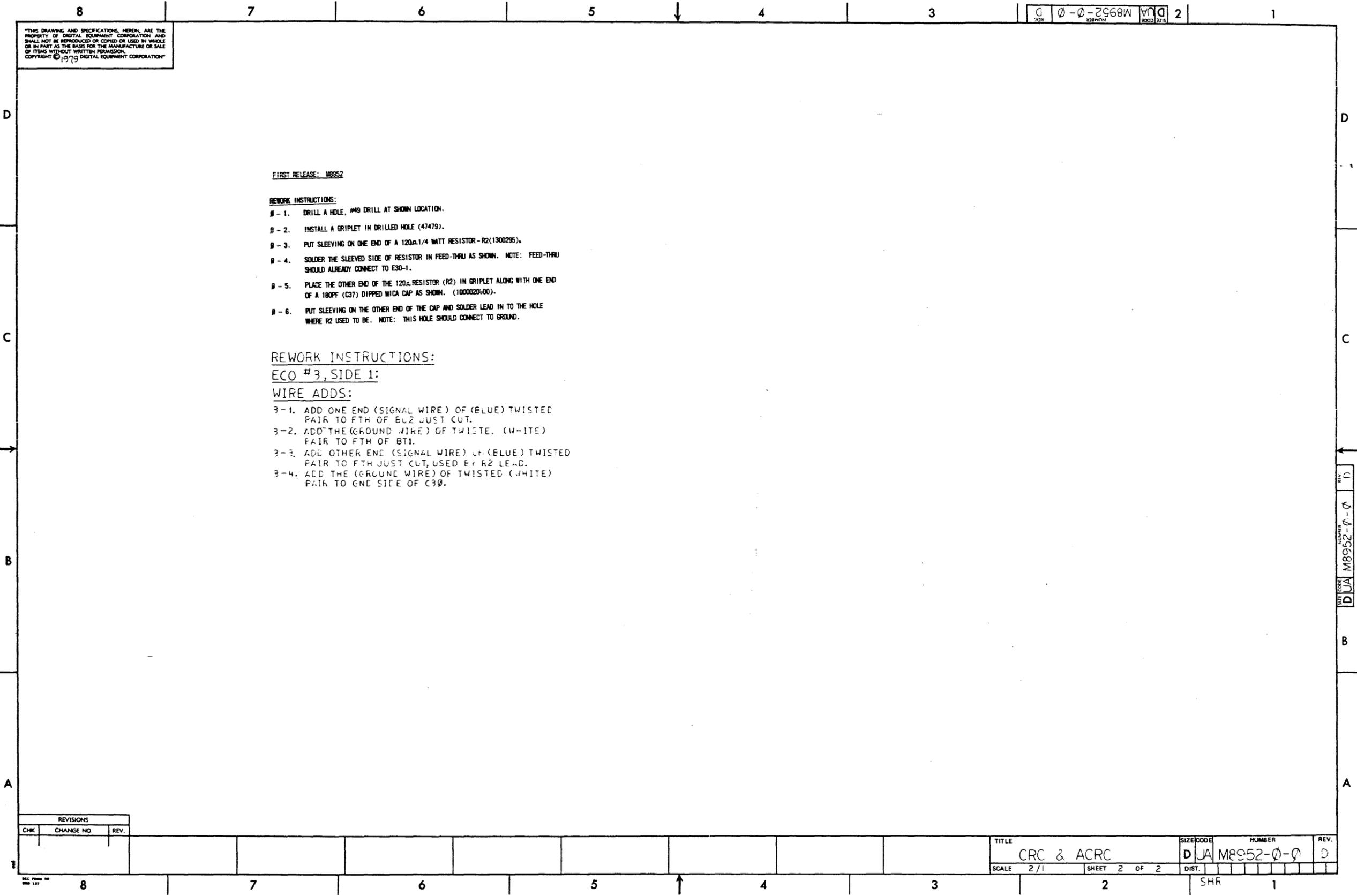
WIRE ADDS:

- 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.

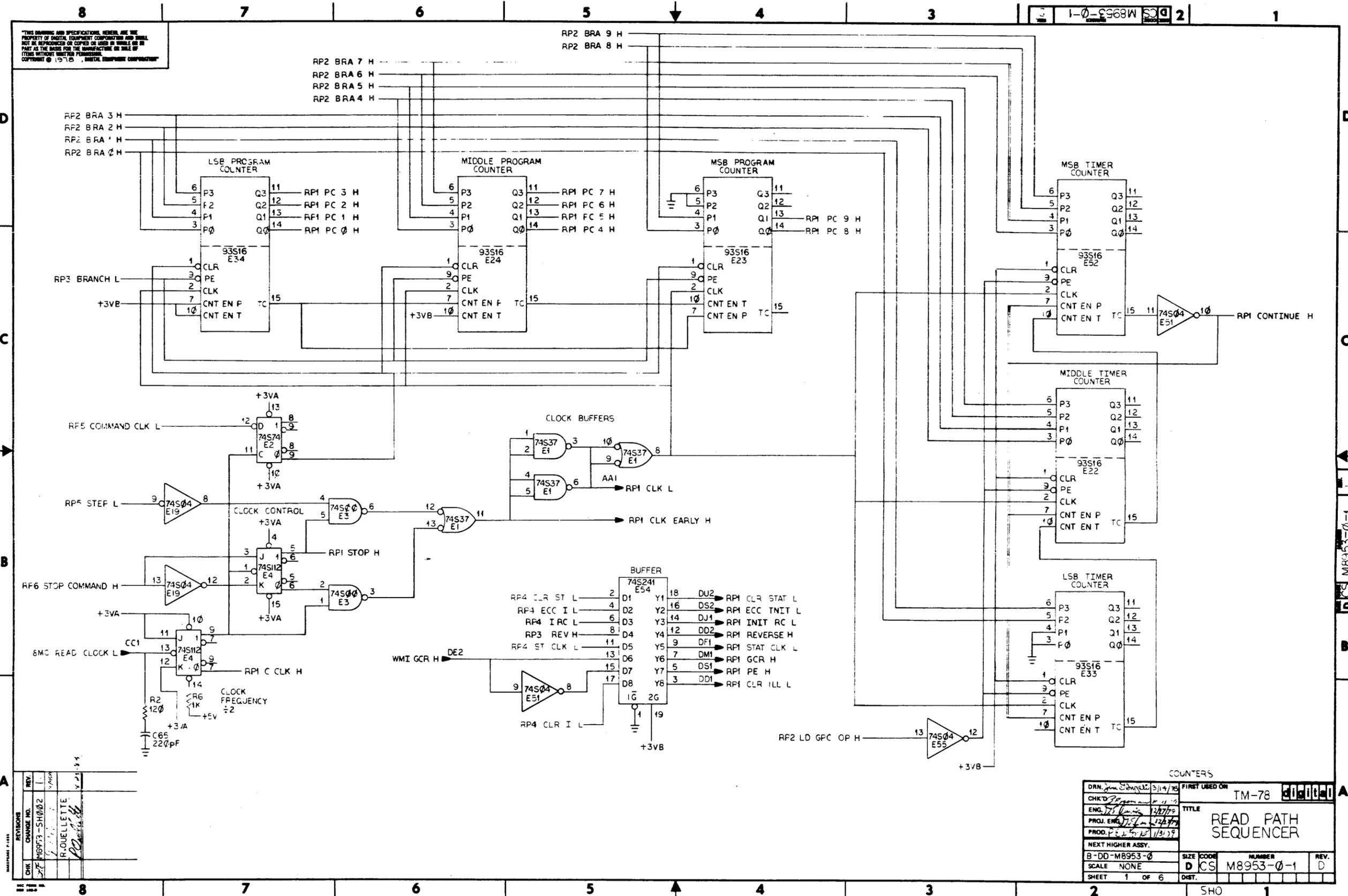
REVISIONS		
CHK	CHANGE NO.	REV.

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

UNIT CONT. DJA M8952-0-0 REV. 1



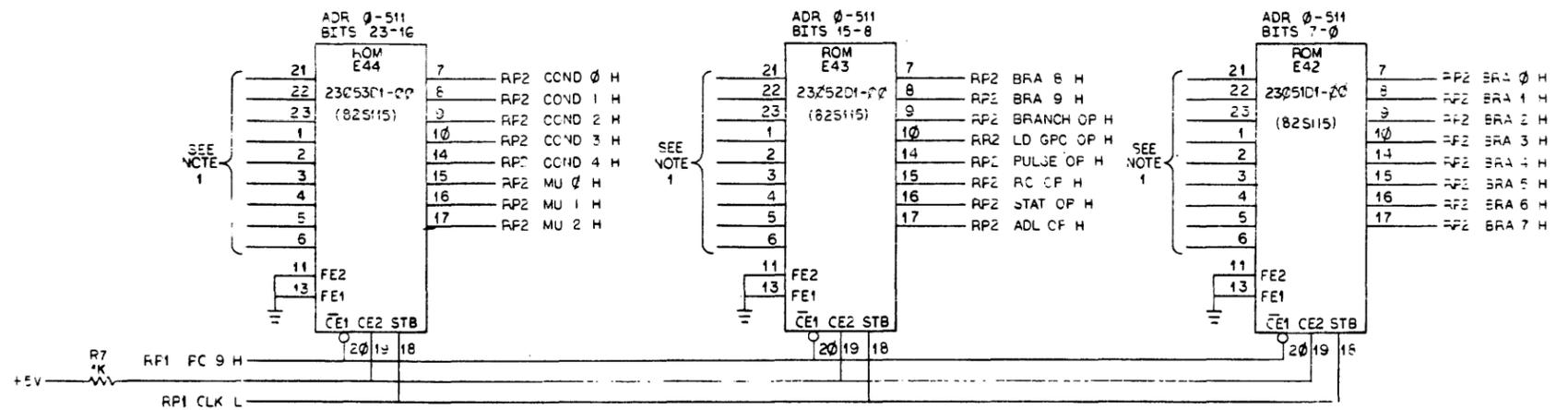
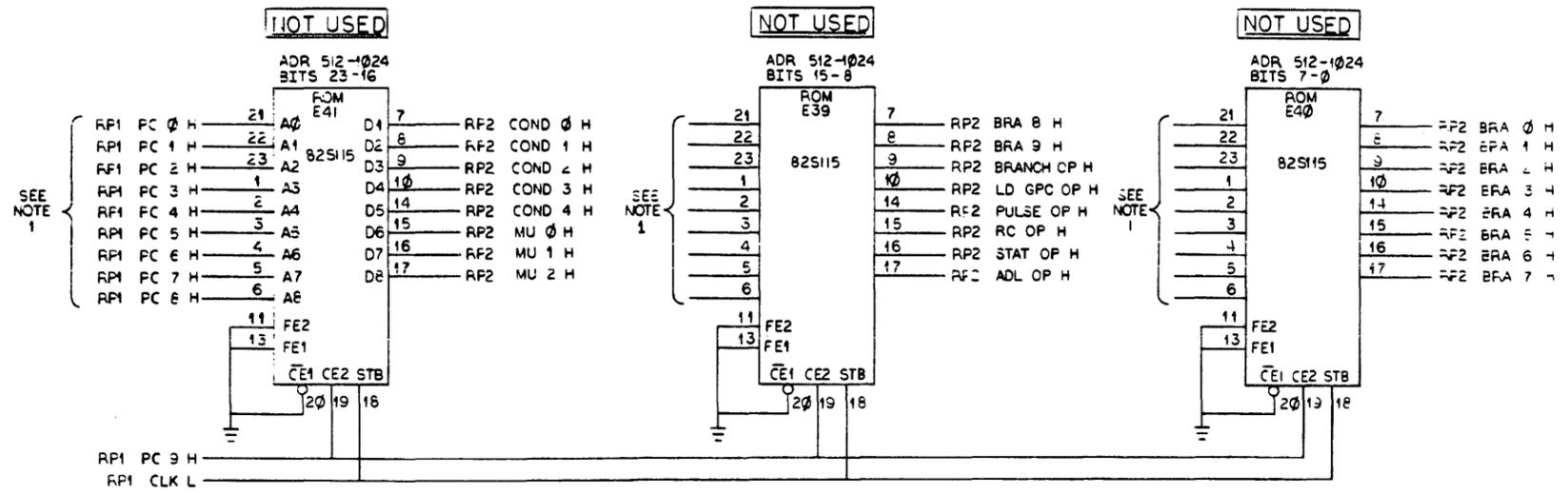
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REV.	CHANGE NO.	DATE	BY	CHK
1	1	1/14/75	R. ROUELLETTE	
2	2	1/27/75		
3	3	1/27/75		

COUNTERS		FIRST USED ON	
DRN. J. M. C. 3/14/75	3/14/75	TM-78	digital
CHK'D		TITLE	
ENG. J. M. C.	1/27/75	READ PATH SEQUENCER	
PROJ. ENG. J. M. C.	1/27/75	SIZE	CODE
PROD. P. J. M. C.	1/27/75	D	CS
NEXT HIGHER ASSY.		NUMBER	REV.
B-DD-M8953-0		M8953-0-1	D
SCALE	NONE	SHEET 1 OF 6	
SHEET 1 OF 6		DST.	

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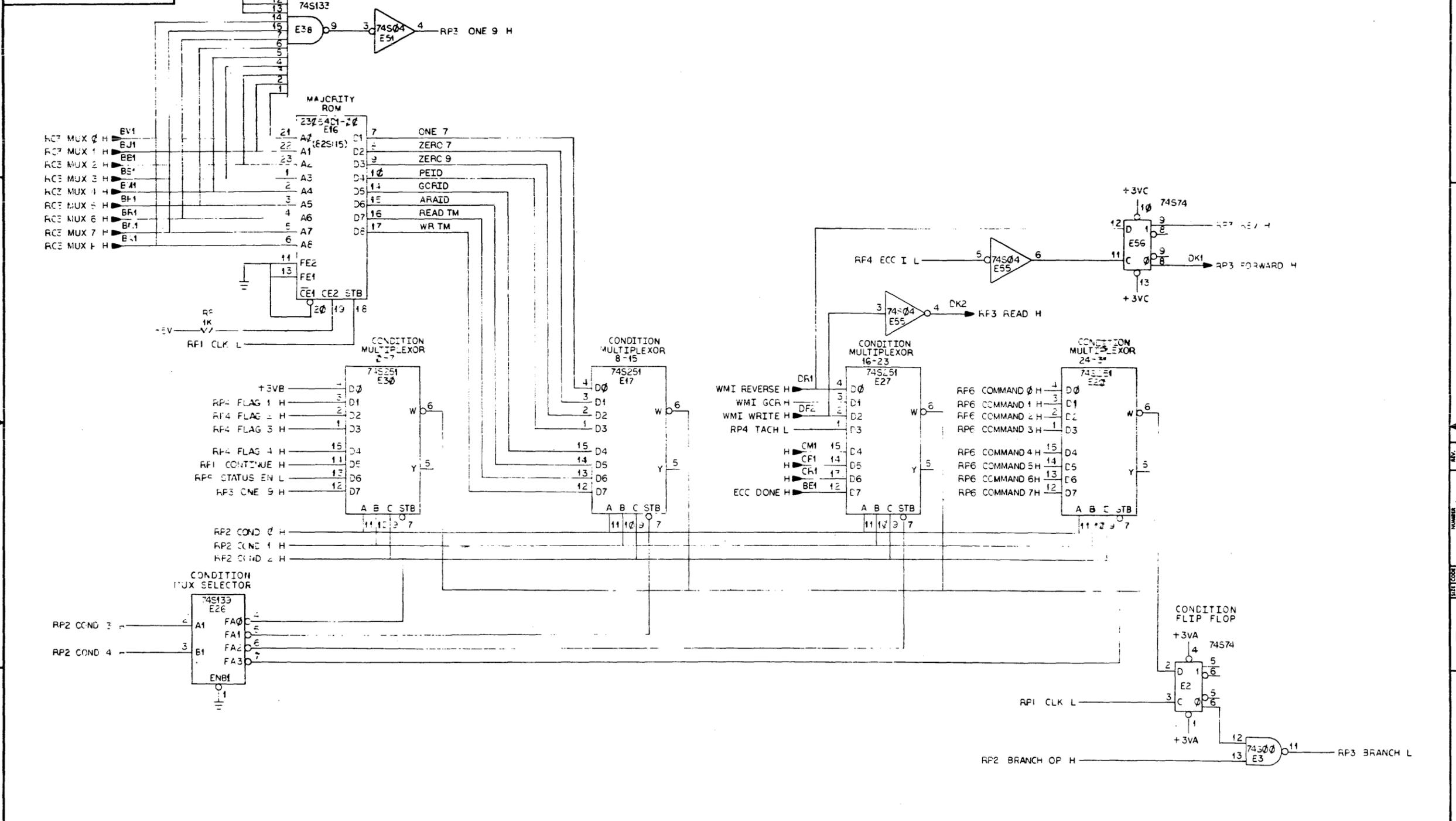


NOTE 1. ALL ROM CHIPS ON THIS SHEET HAVE ADDRESS TERMINALS COMMON.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		PROGRAM ROMS		REV.	
READ DATA SEQUENCER		D CS M8953-0-1		D	
SCALE NONE		SHEET 2 OF 6		DIST.	

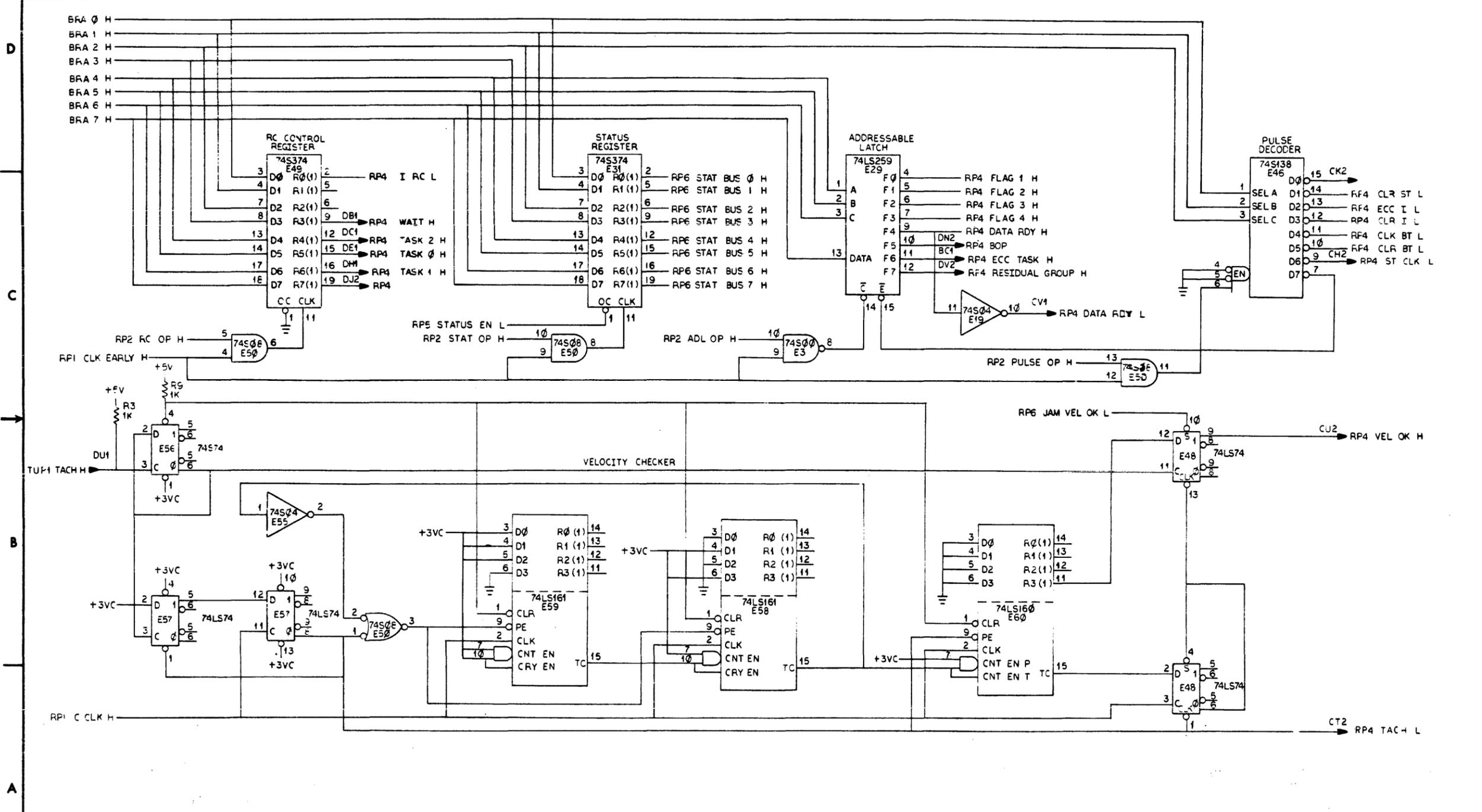
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
READ PATH SEQUENCER		D CS	M8953-0-1	0
SCALE	SHEET	OF	DIST.	
NONE	3	6		

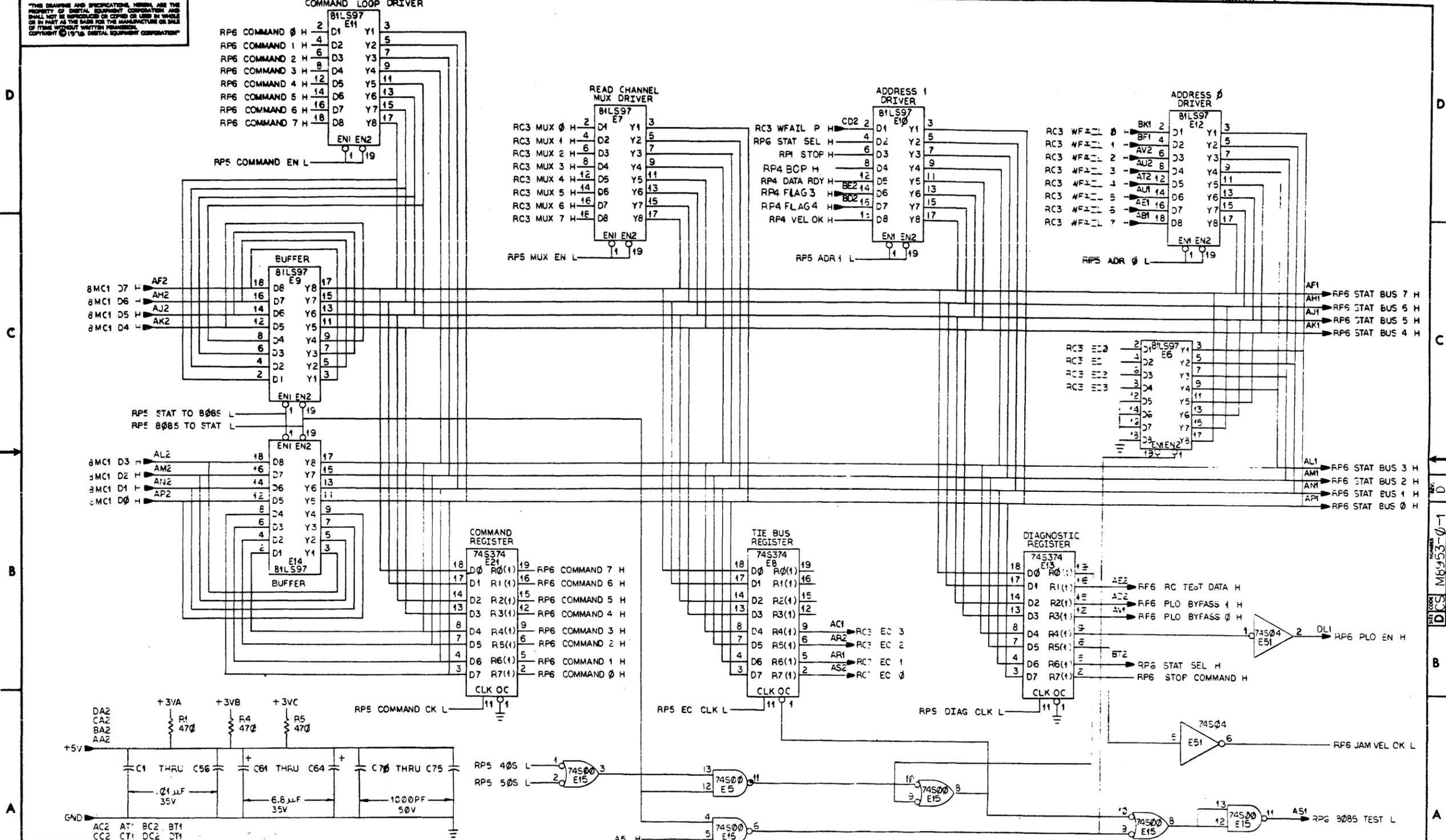
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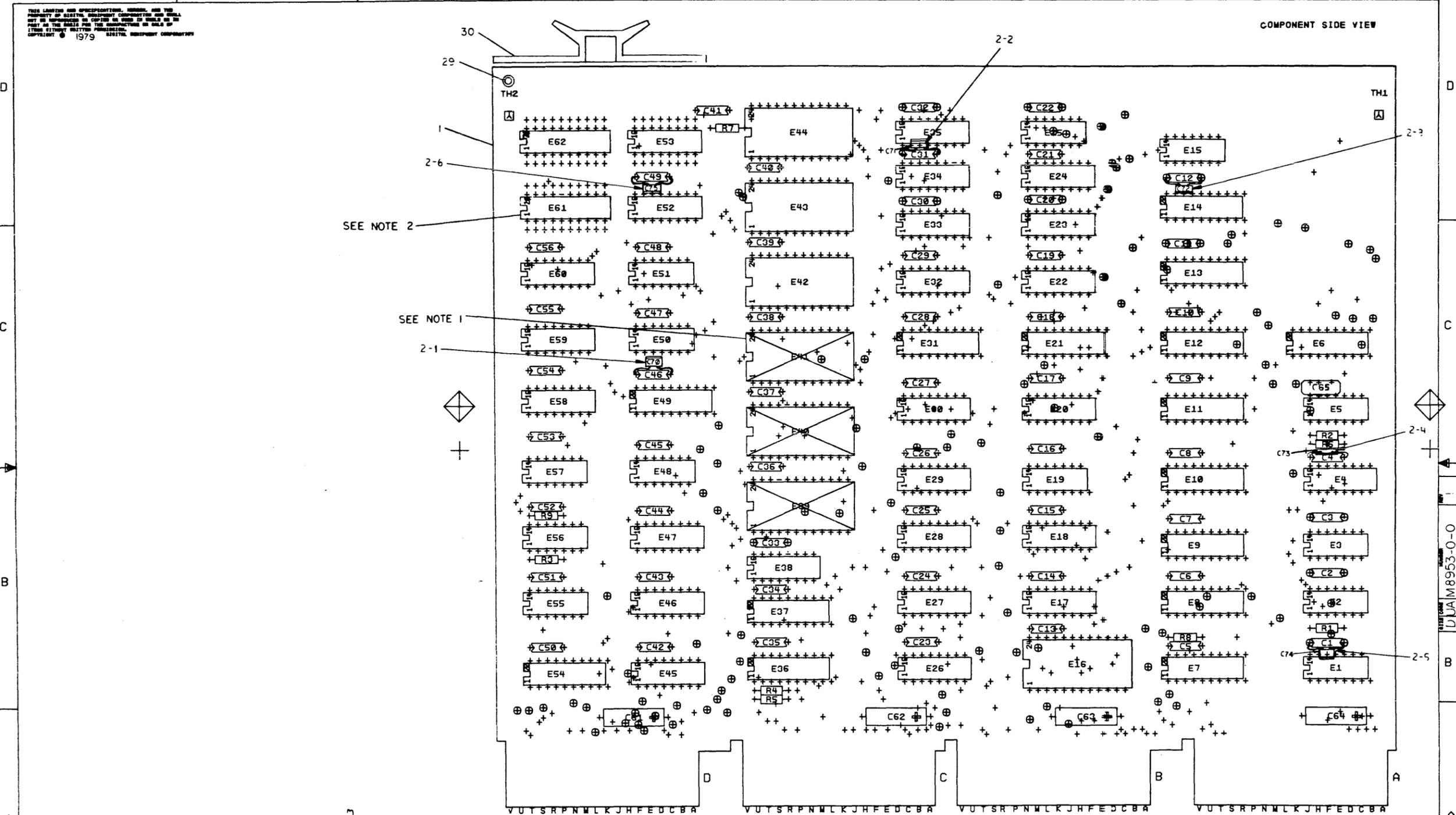
REVISIONS		
CHK	CHANGE NO.	REV.

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

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REVISIONS			3085 DATA INTERFACE			
CHK	CHANGE NO.	REV.	TITLE	SIZE CODE	NUMBER	REV.
			READ PATH SEQUENCER	D CS	M8953-0-1	D
			SCALE NONE	SHEET 6 OF 6	DIST.	



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

STEP	Y AXIS	STEP	TIMES
REPEAT	X AXIS	STEP	TIMES

CHANGE NO	REV
002	SH002

ETCH REV. D
DESIGN DATA BASE. DL & DM

SIGNATURES		DATE	digital
DRN. W. Austin		8-8-79	
CHK'D. [Signature]		4/1/79	
MECH. ENG. [Signature]		1/27/79	
PROJ. ENG. [Signature]		2/5/77	
PROD. [Signature]		1/31/79	
SCALE 2/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 2	D UA	M8953-0-0	D
NEXT HIGHER ASSY. B-0D-M8953-0			

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0-0-ES68W

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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.

D

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REVISION HISTORY		
REV.	ECO NUMBER	DATE

TITLE
READ PATH SEQUENCER

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	M8953-0-0

DRG 137C
REV 01/19/78

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SCALE 2/1

SHEET 2 OF 2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1		5013101-00	READ PATH SEQUENCER	1	
2	2		1000021-00	220.0 MMF 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	CODE	NUMBER	REV
			[B]	MFG.ENG.:	P.BARTON	DATE:	31-OCT-78	K	PL	M8953-0-DBP	D
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[D]	D-UA-M8953-0-0		B-DD-M8953-0-0		Z0947D.PLS		20	
			[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) 1983. DIGITAL EQUIPMENT CORPORATION "							
			[F]								
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PARTS LIST

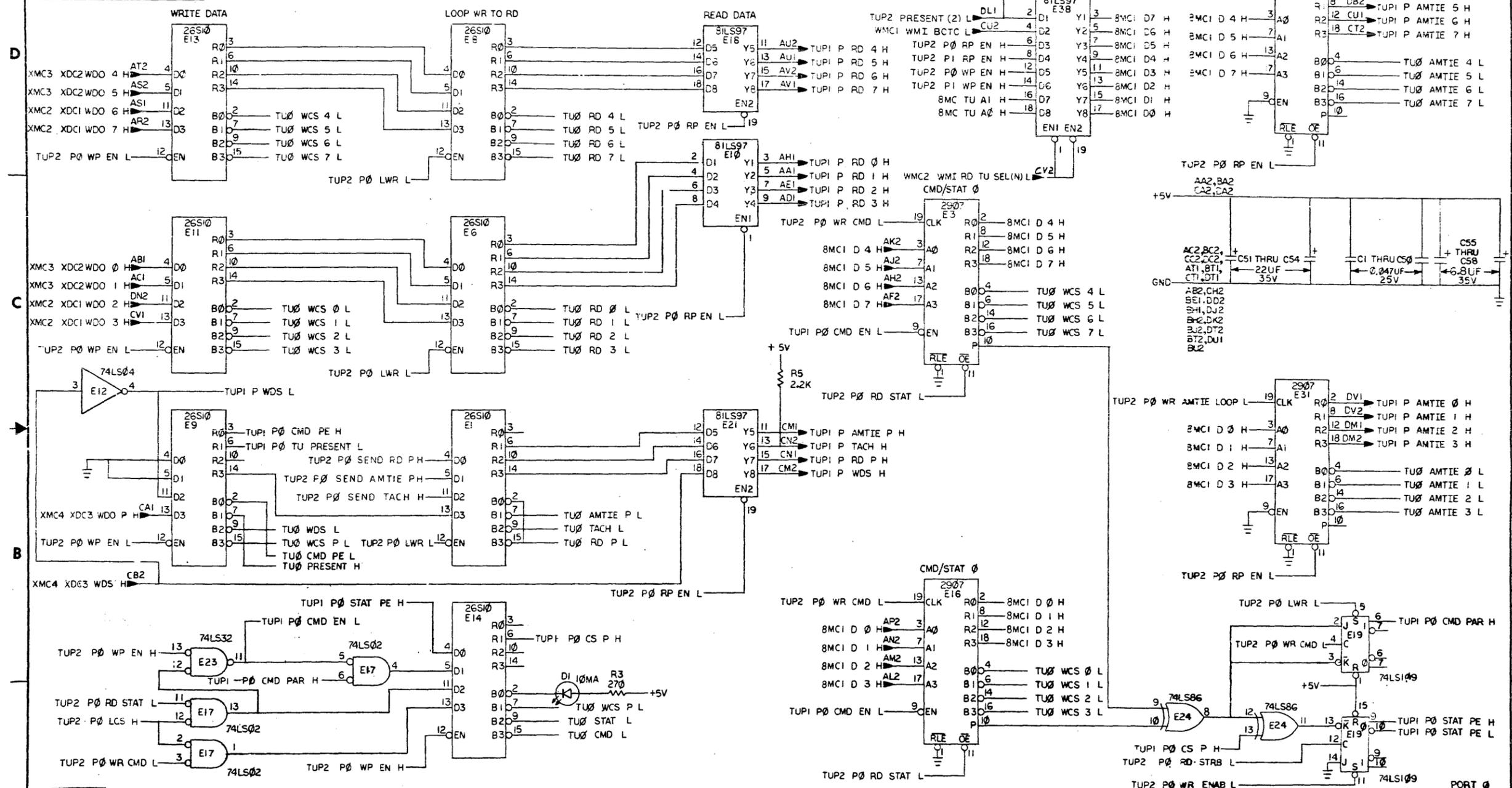
SHEET A2 OF A2

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 ***	-	
33	33	D-UA-M8953-0-0		74S138 DECODER/DEMUX 3-8 LI	1	E46
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	REF	
38	38		2305201-00	D1-02	1	E42
39	39		2305301-00	D1-02	1	E43
40	40		1011740-05	1000.0 MMF 50V 10% CER	6	E44 C70-C75

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

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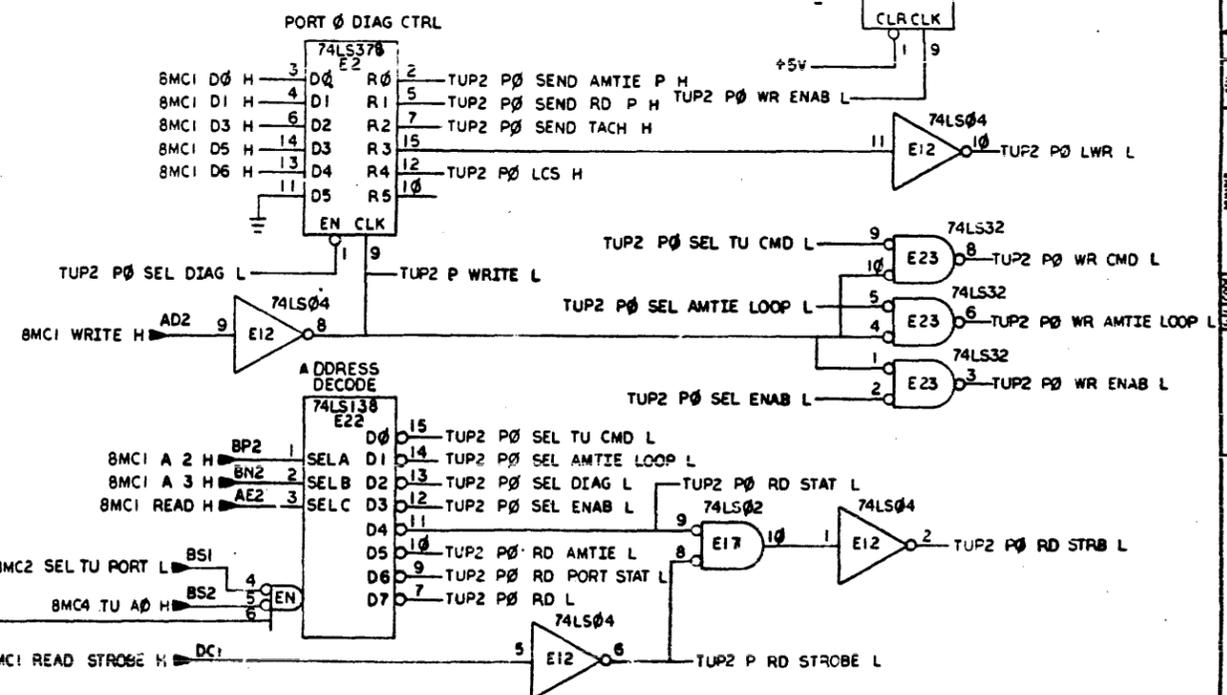
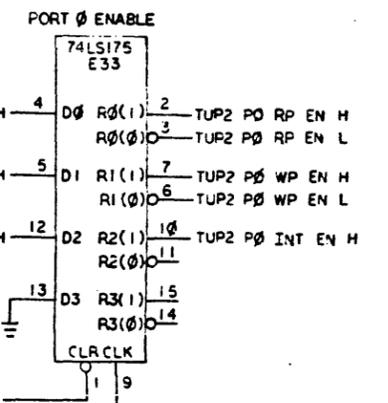
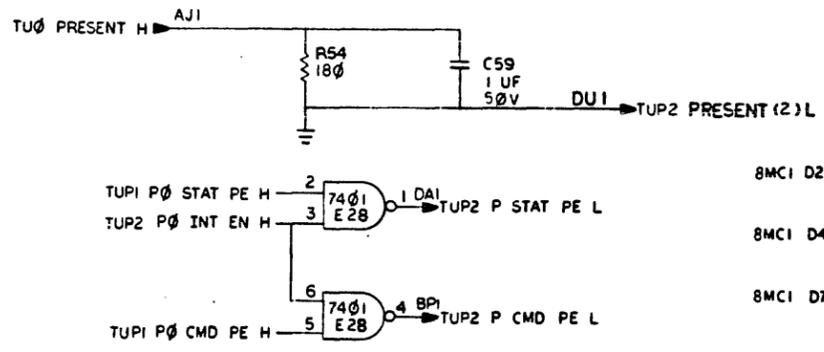
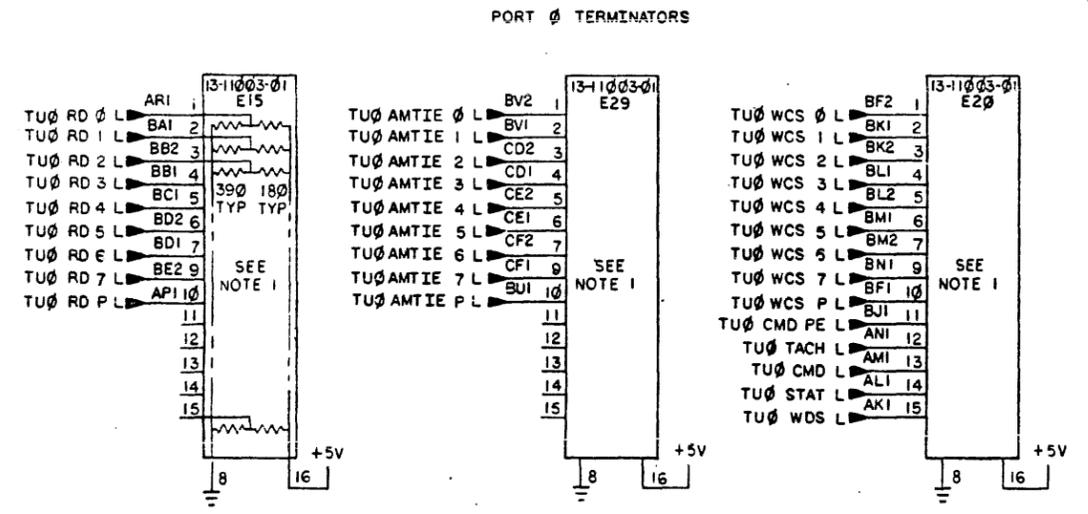
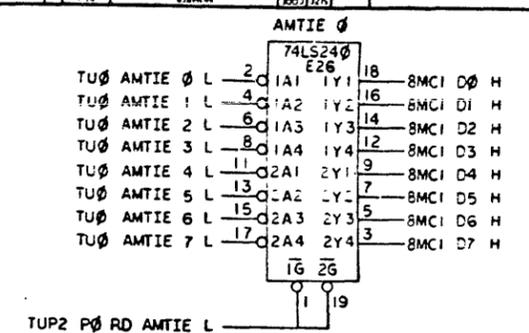
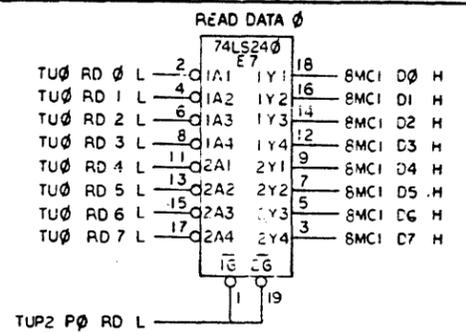
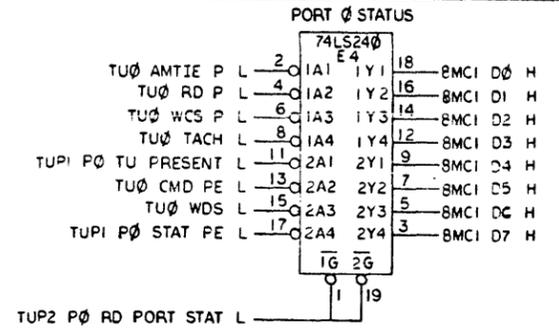
NOTE 1: TYPICAL FOR E15, E20, E29, E34, E43 AND E48.



REV	CHG	NO.	DATE	BY	CHK'D BY
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B-DD-M8955-0		SIZE	CODE	NUMBER
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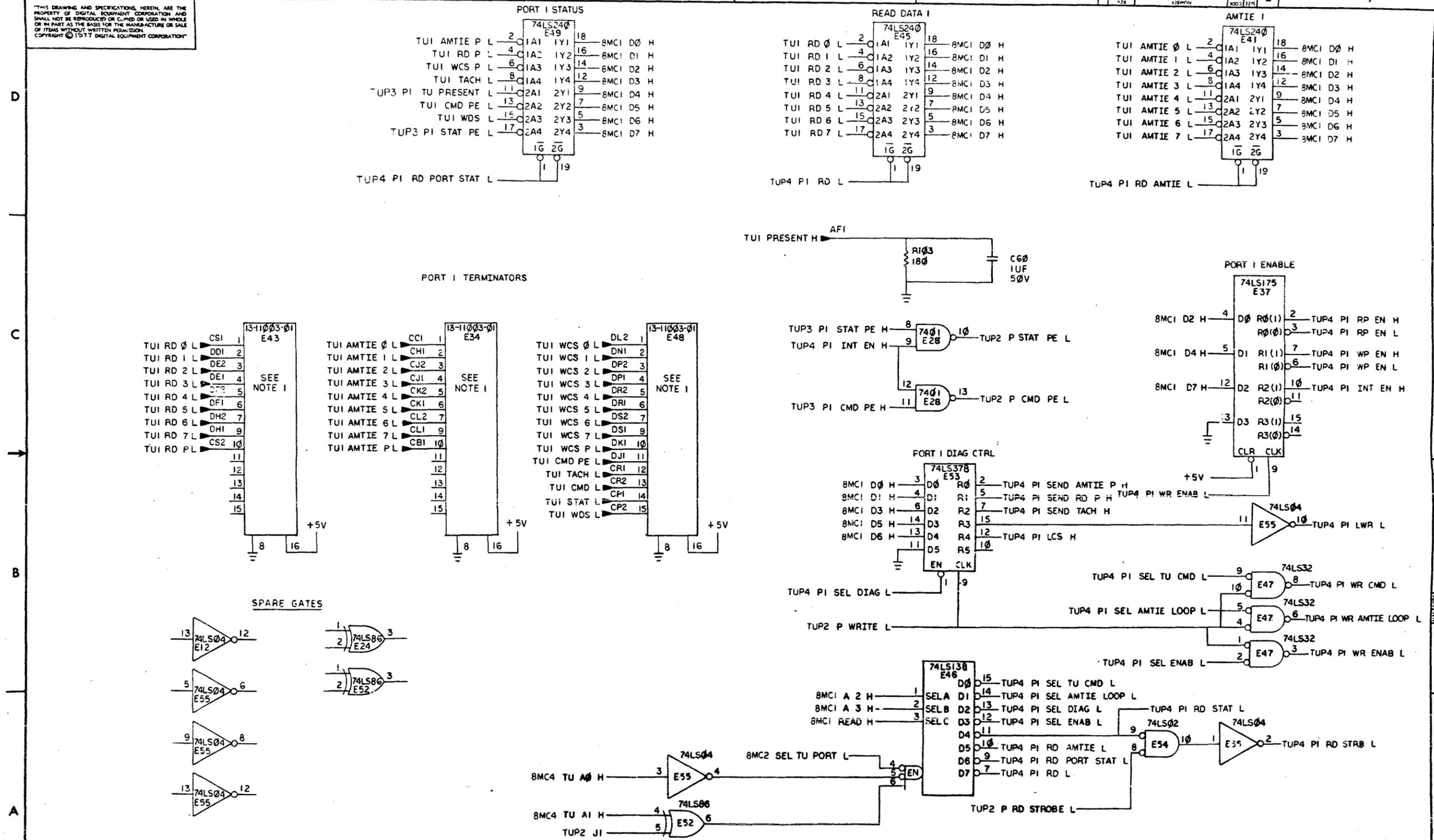
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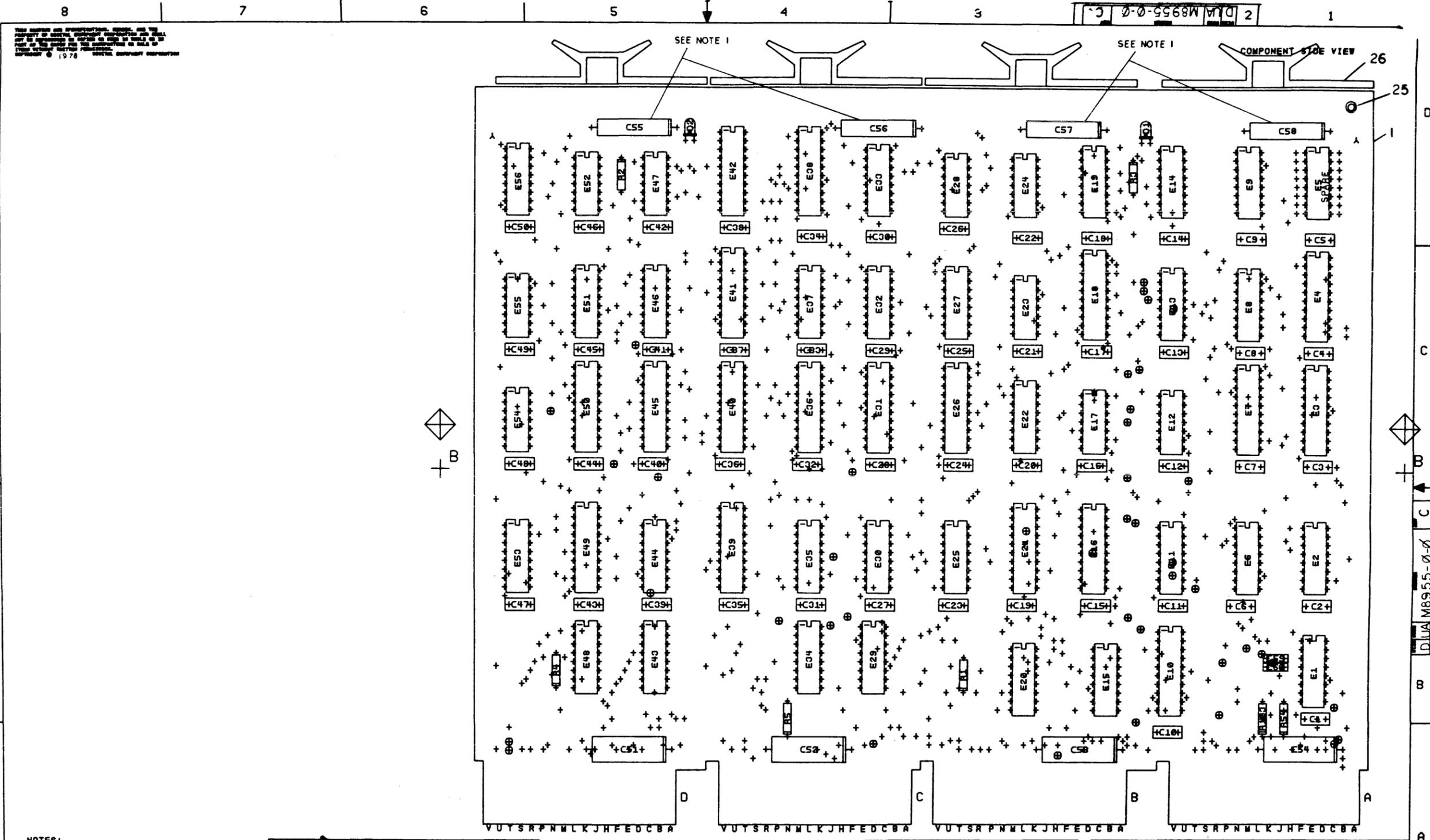
REVISIONS		
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REVISIONS			TITLE		SIZE CODE		NUMBER		REV.
CHK	CHANGE NO.	REV.	TU PORT		DCS		M8955-0-1		C



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 DATE 10-19-78 BY SP-6/BJM/STP

NOTES:
 1. HAND INSERT C55 THRU C58

CHG	NO	REV
1	1	C
2	1	C
3	1	C
4	1	C
5	1	C
6	1	C
7	1	C
8	1	C

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

SIGNATURES	DATE	TITLE
DRAWN: <i>Mike Carver</i>	22-78	TU PORT
CHK'D: <i>B. Conroy</i>	2/25/78	
ENG. <i>P.S. Jones</i>	9-20-78	
PROJ. ENG. <i>P.S. Jones</i>	9-20-78	
PROD. <i>P. Smith</i>	7-26-78	
SCALE 2/1		SIZE CODE NUMBER
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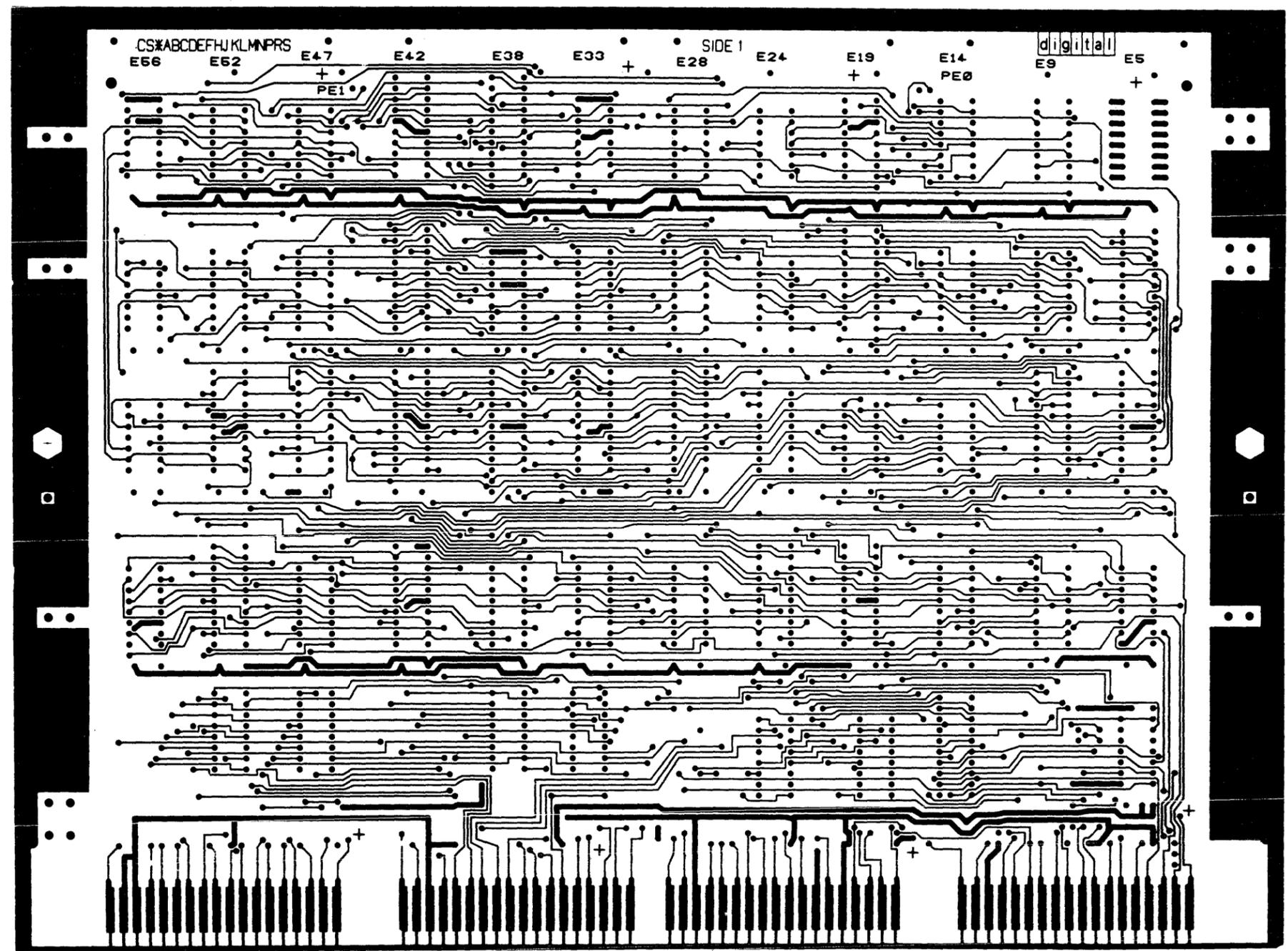
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M8955 5013001C

LAYER 1



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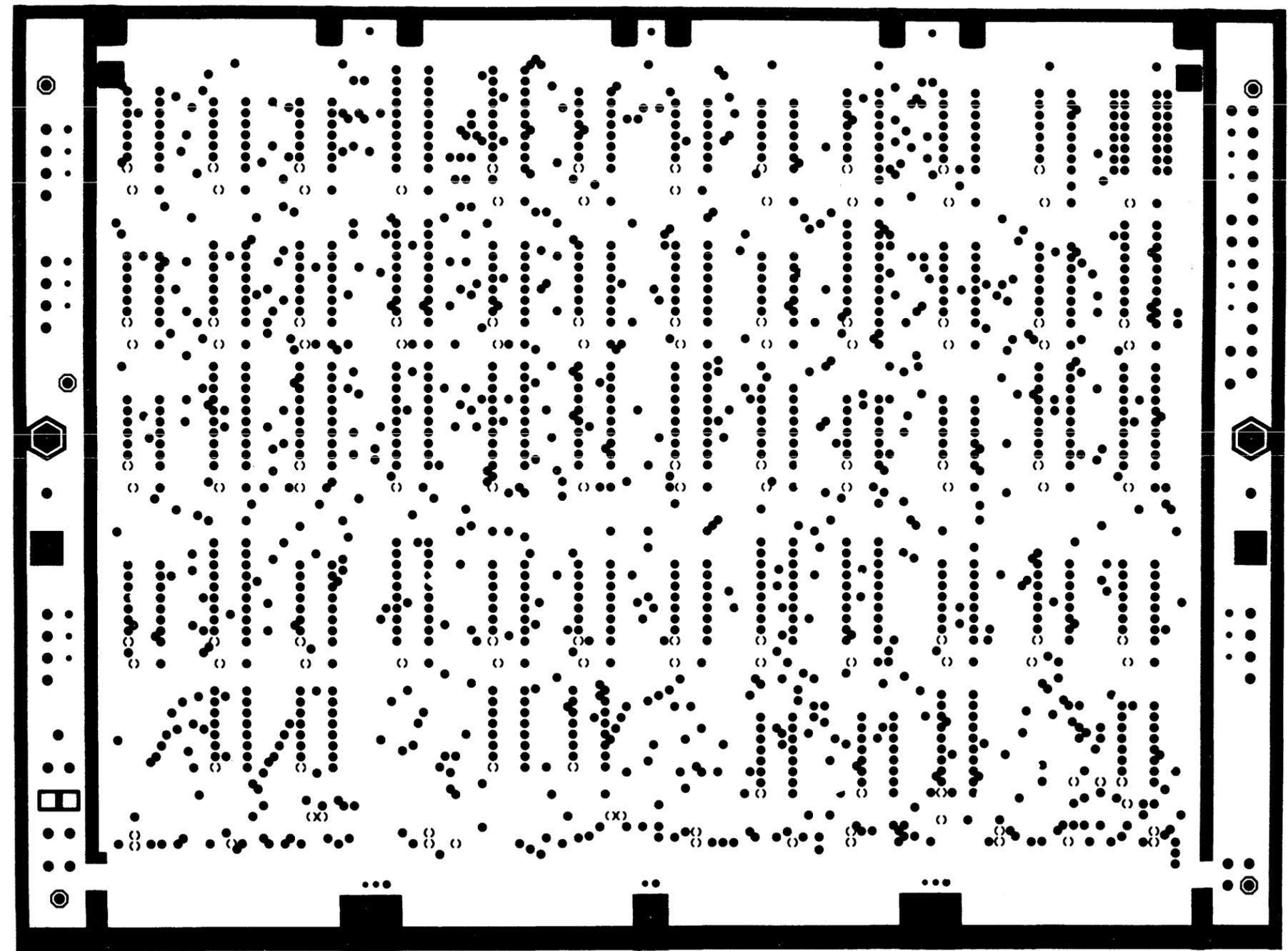
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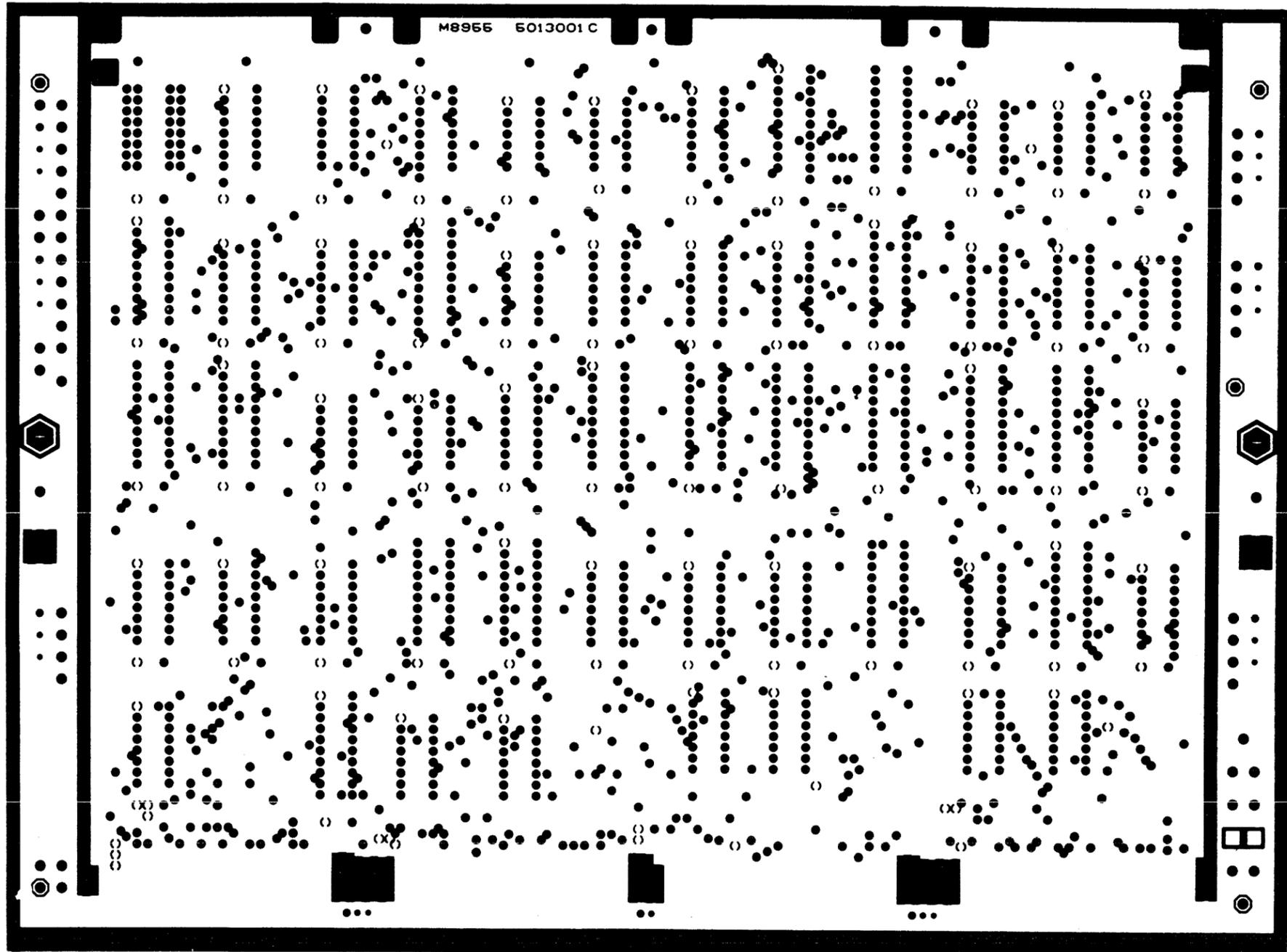
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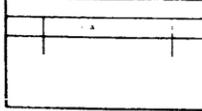
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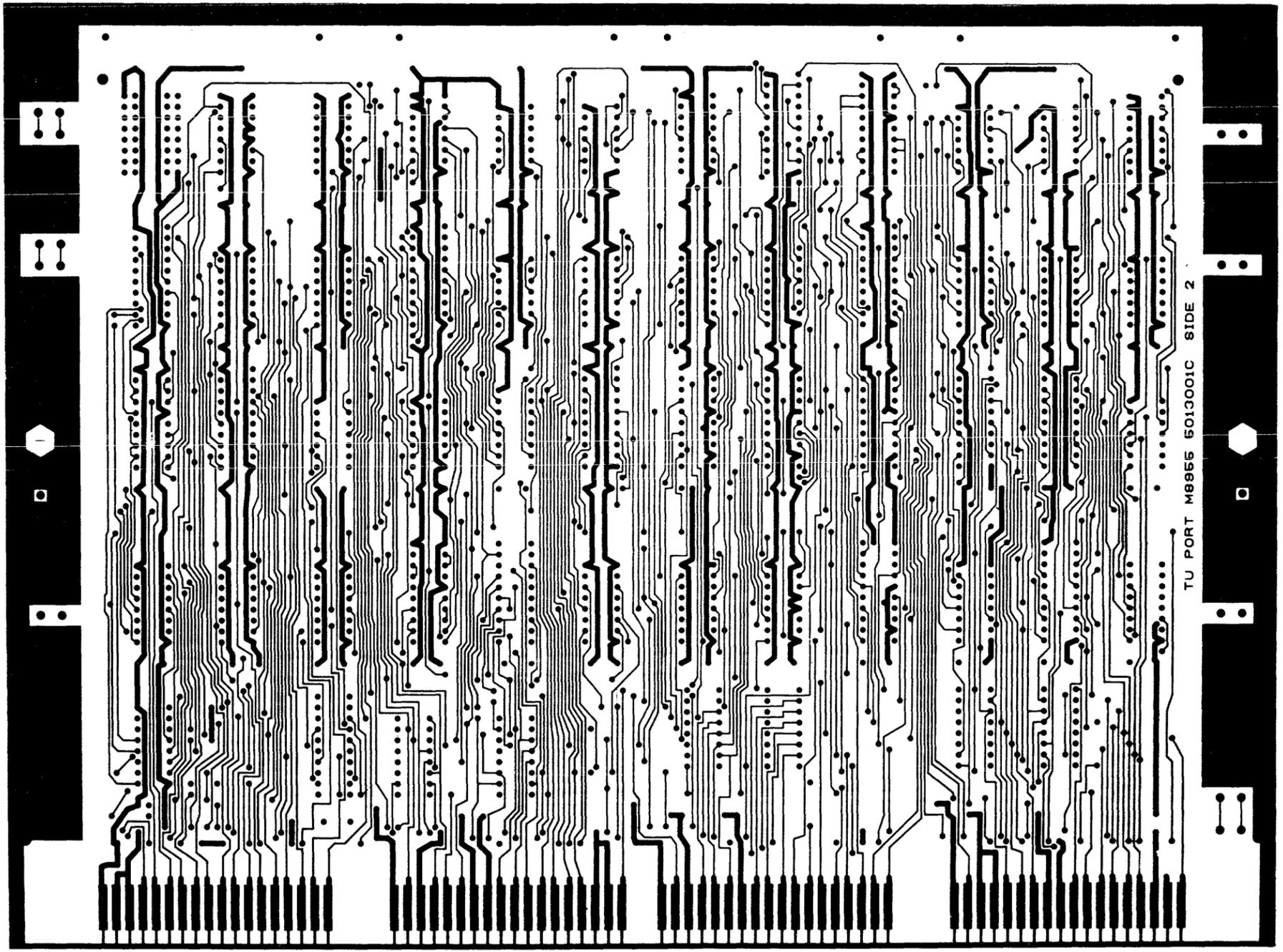
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TITLE	TU PORT	SIZE CODE	D/JA	NUMBER	M8955-Ø-Ø	REV	C
SCALE	2/1	SHEET	4	OF	5	DIST	

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PARA 834AJ



TU PORT M8955 5013001C SIDE 2

REVISION		
CHK	CHANGE NO	DATE

TITLE	TU PORT	SIZE CODE	DUA	NUMBER	M8955-0-0	REV	C
SCALE	2	SHEET	5	OF	5	DIST	

DUA M8955-0-0 2

DUA M8955-0-0 C

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 1MCD@10MA 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,
					CONT E27,E30,E32,E35,E44
22	22	1914213-00	81LS97 BUFFER GATE-OCTAL 2I	4	E10,E18,E21,E38
23	23	1914414-00	2907 TRANSCEIVER,BUS,QUA	8	E3,E16,E31,E36,E39,E40,E42,E50
24	24	1914867-00	FF-D HEX, COMMON REG	2	E2,E53
25	25	9006732-00	EYELET, ROLLED FLANGE, .121 OD X	8	
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	PARTS LIST			
		B	SECTION VARIATION INDEX					TU PORT			
DJ	M8955-ML001	C	[A] 00								
			[B]								
			[C]	DES.ENG:	D.JERVIS	DATE:	11-MAY-79				
			[D]								
			[E]	RESP.ENG.:	D.JERVIS	DATE:	11-MAY-79	DOCUMENT NUMBER			
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			[G]					K	PL	M8955-0-DBP	C
			[H]								
			[I]								
			[J]								
			[K]	MFG.ENG.:	P.BARTON	DATE:	11-MAY-79				
			[L]								
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #		
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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

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REFERENCE DESIGNATOR

30 30 D-MD-5013001-0-0

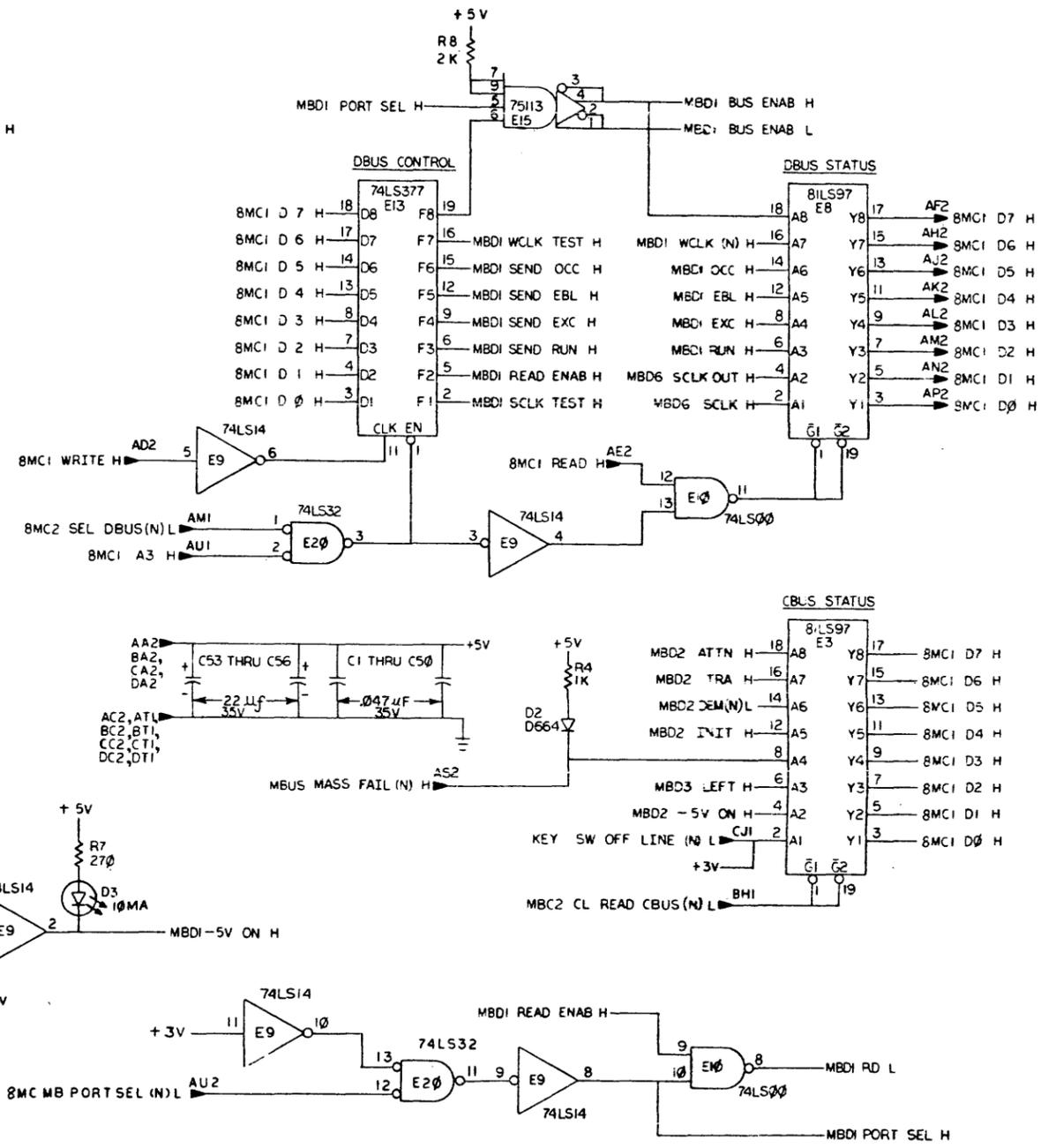
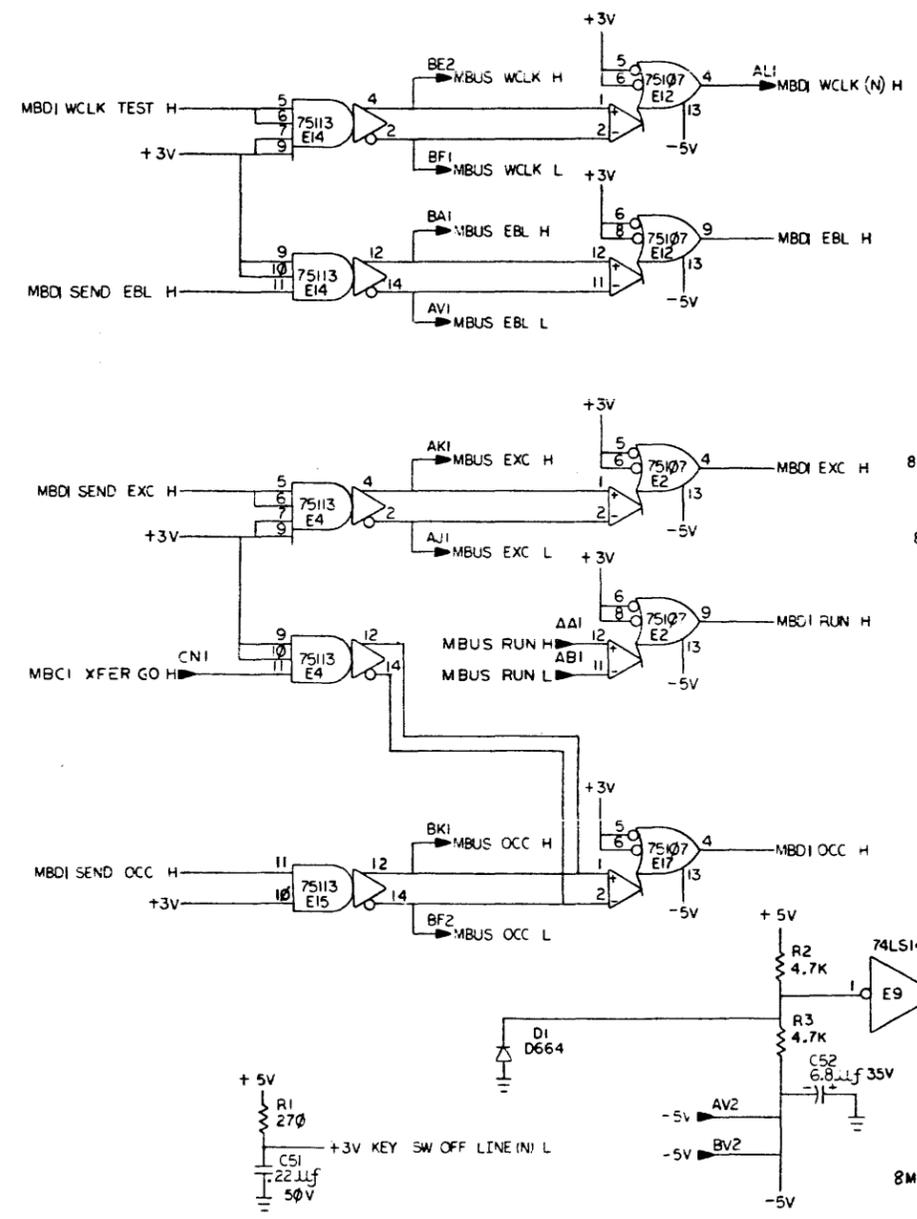
DRILL & ETCH DWG

REF

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
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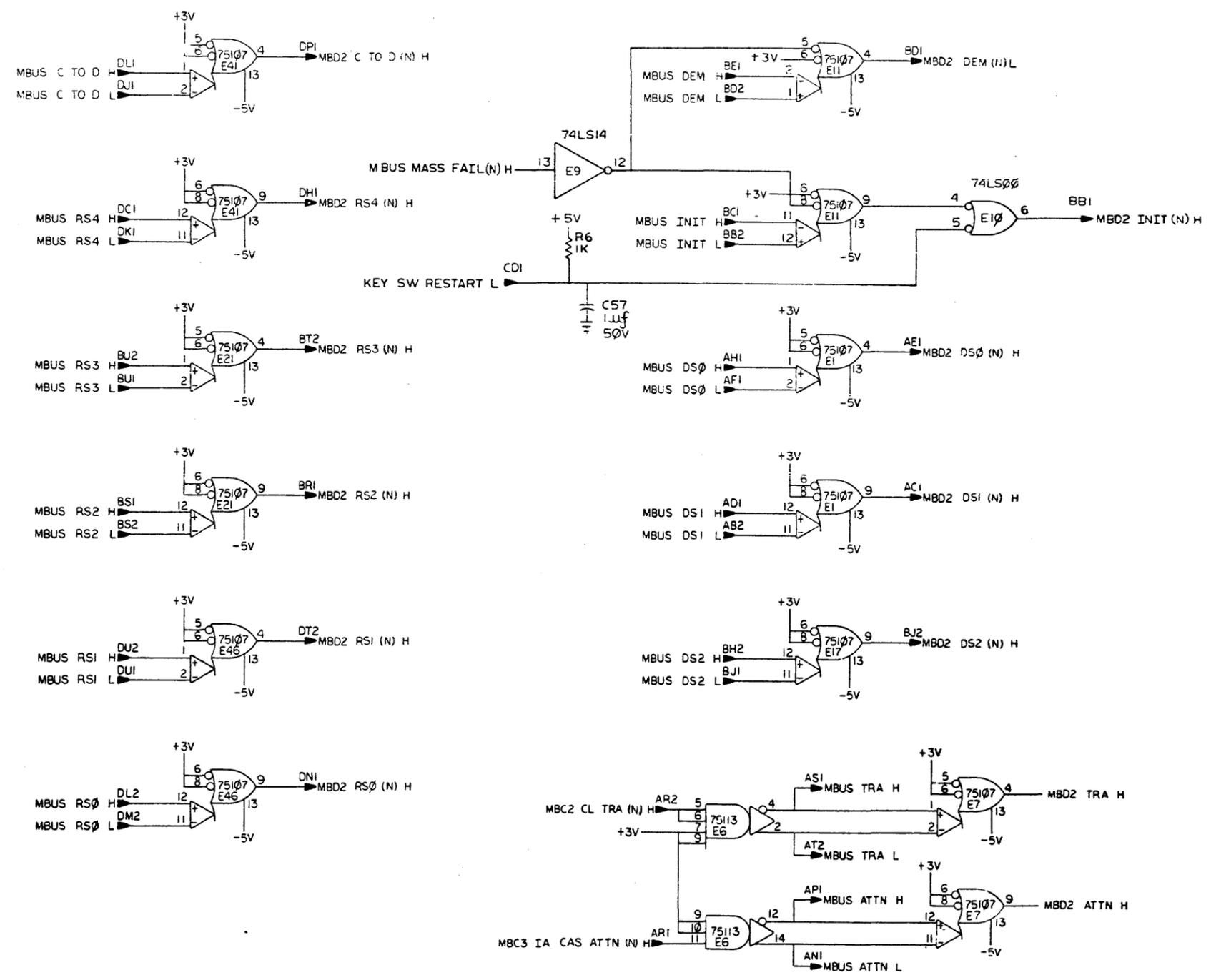


REV.	CHG.	NO.	DATE	BY	CHK.
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2		2	5/13/80	DAVID JERVIS	
3		3	6/21/80	DAVID JERVIS	

8085 INTERFACE		FIRST USED ON	
DRN	10/11/77	TM78	
CHK'D	11/13/78	TITLE	MASS BUS DATA PORT MBD1
ENG	11/15/78	NUMBER	
PROJ. ENG.	11/17/78	REV.	D
PROD.	1-17-80	SCALE	1 OF 6
NEXT HIGHER ASSY.		SIZE	D
B-DD-M8956-0		CODE	M8956-0-1
DIST.			

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1-0-9969N SOI 2

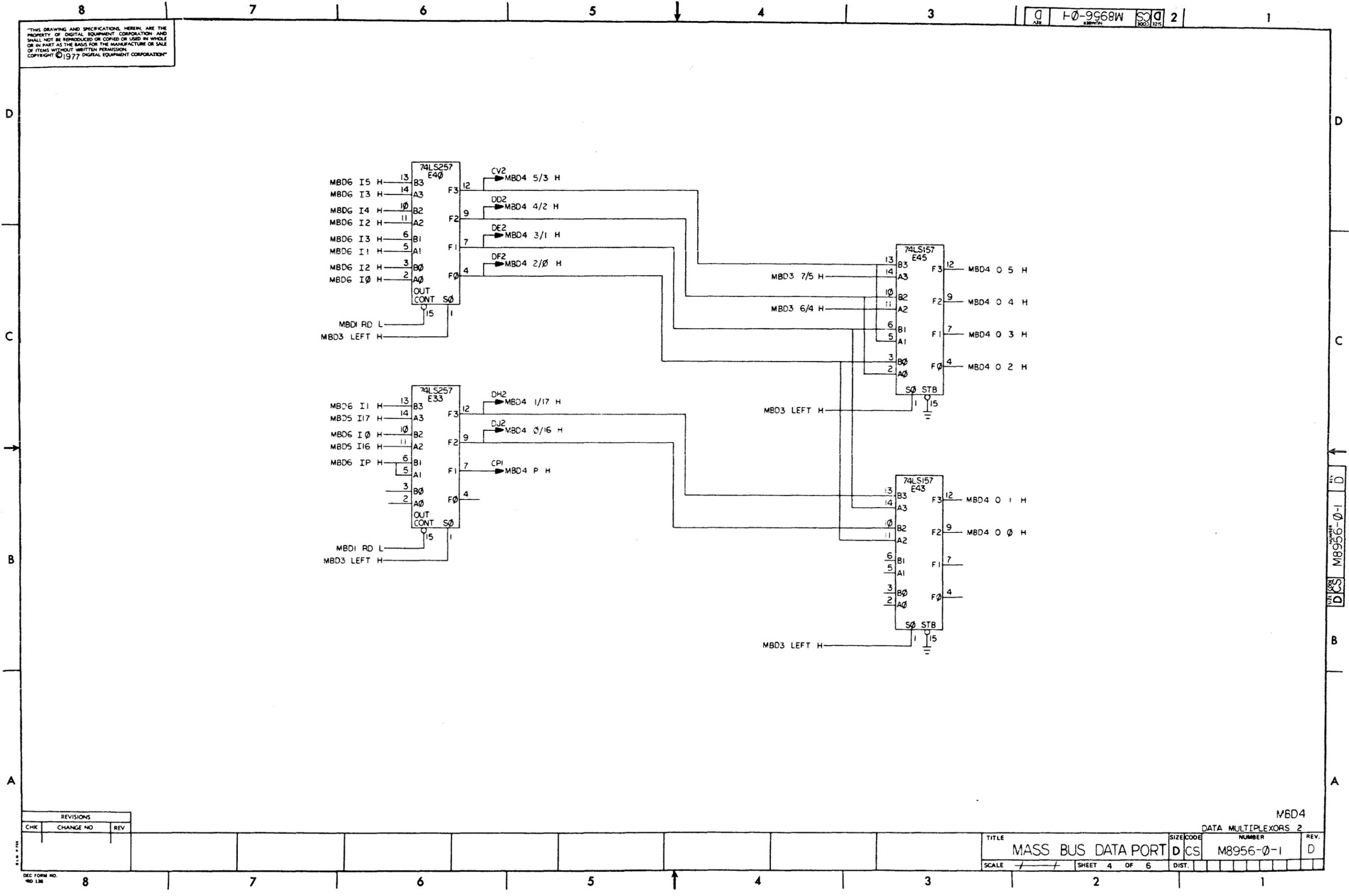


DCS
 M8956-0-1
 DCS

REVISIONS		
CHK	CHANGE NO.	REV

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

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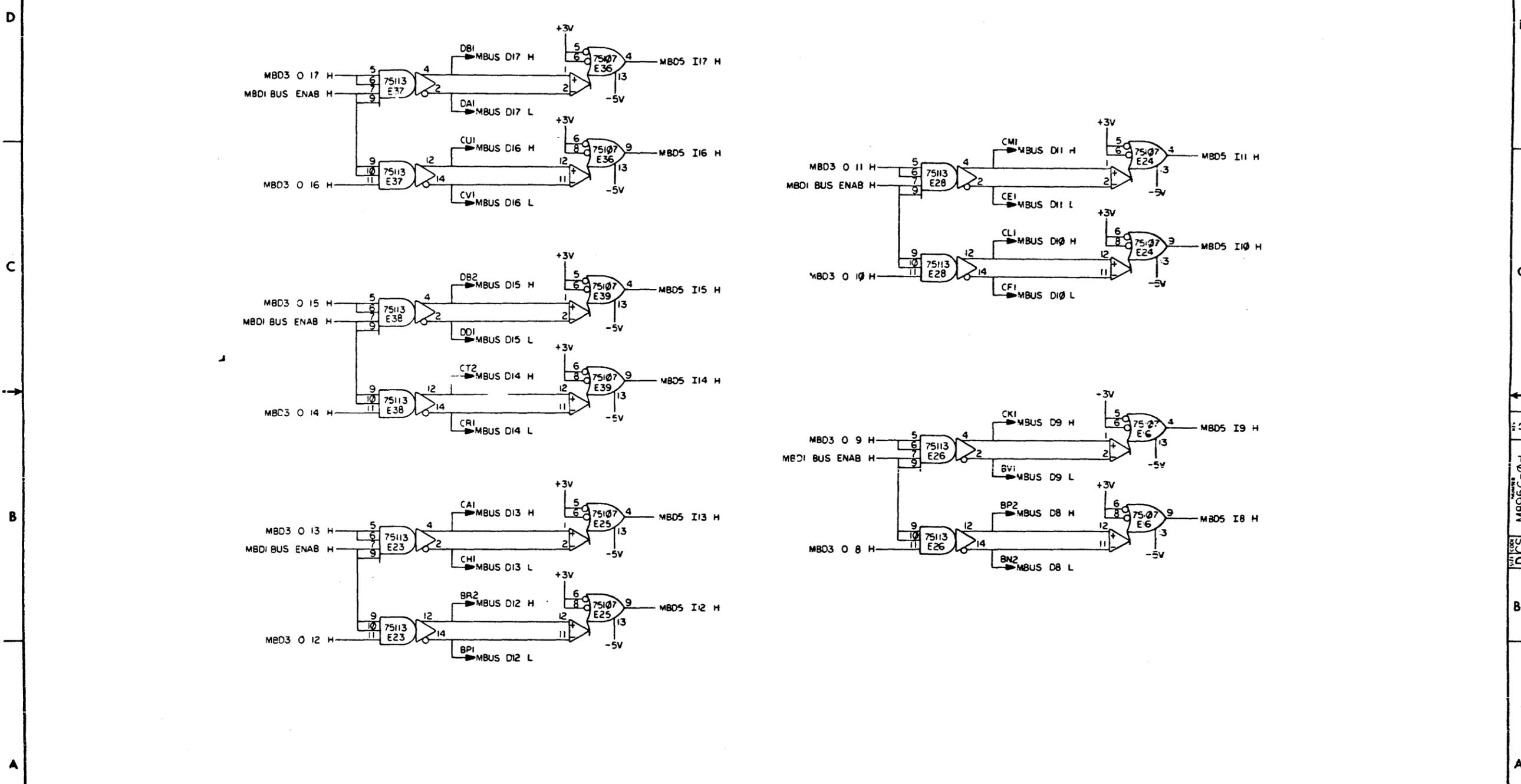


REVISIONS		
CHK	CHANGE NO	REV

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

MBD4
DATA MULTIPLEXORS 2

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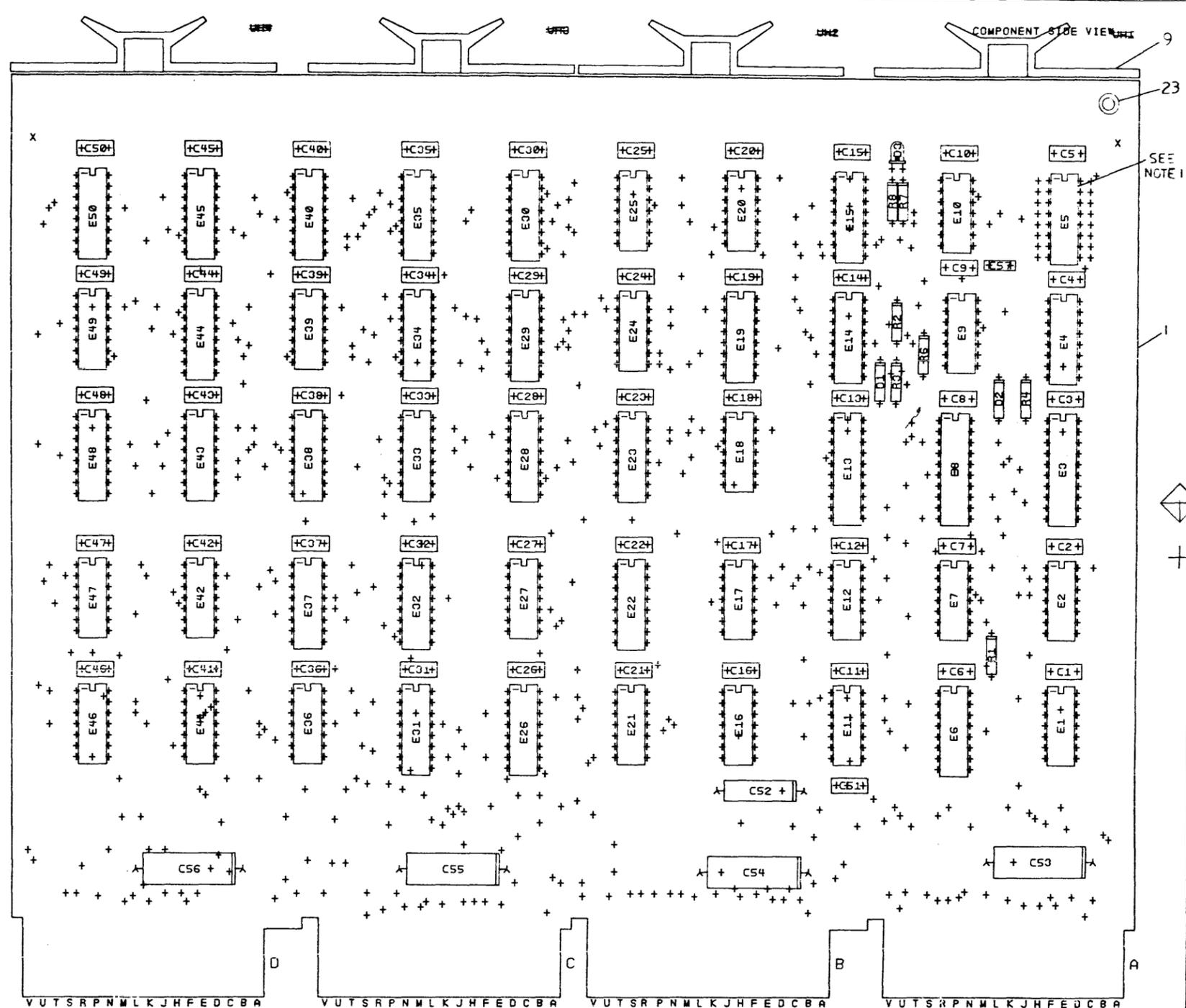
REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO. 110

TITLE		DATA BUS I	
MASS BUS DATAPORT		SIZE CODE	NUMBER
SCALE		D CS	M8956-0-1
SHEET 5 OF 6		DIST.	REV. D

REV. D
NUMBER M8956-0-1
D CS

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NOTES: 1.E5 IS A SPARE IC LOCATION.

STEP	DESCRIPTION	DATE	TIMES

CHANGE NO	REV	DATE	BY	CHK'D

ETCH REV. D

SIGNATURES		DATE	digital
DRN. J. RICHARD		2-25-80	
CHK'D. [Signature]		2-25-80	TITLE MASS BUS DATA PORT
MECH. ENG. [Signature]		7/25/80	
PROJ. ENG. [Signature]		7/25/80	
PROD. [Signature]		7/25/80	SIZE CODE NUMBER REV D UA M8956-0-0 D
SCALE 2/1			
SHT. 1 OF 1			
NEXT HIGHER ASSY. B-DD-M8956-0			

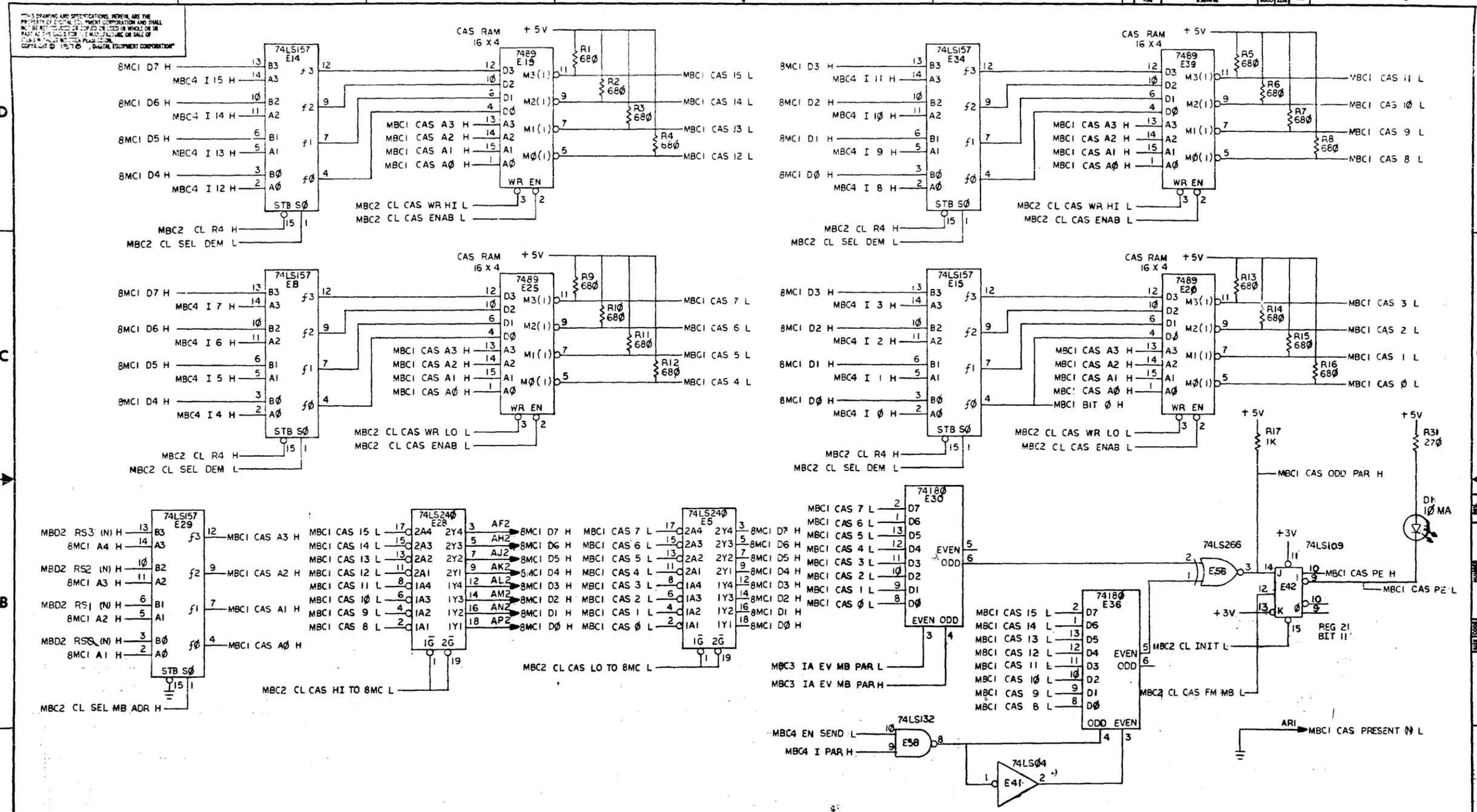
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1		5013039-00	MASS BUS DATA PORT	1	
2		1005306-00	6.8MFD 35V 10% S.TANT	1	C52
3		1010274-01	.22 MFD 50V +80-20% Z5U CER	1	C51
4		1010274-02	1 MFD 50V +80-20% CER	1	C57
5		1012784-00	.047 MFD 50V +80-20% CER	50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

REVISION HISTORY		BASIC PART NO: M8956		DRN:	STU KLOTZLE	DATE:	28-AUG-78	DIGITAL			
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]					DOCUMENT NUMBER			
			[E]	RESP.ENG.:	D. JERVIS	DATE:	28-SEP-78	SIZE	CODE	NUMBER	REV
			[F]								
			[G]								
			[H]	MFG.ENG.:	R. BARTON	DATE:	28-SEP-78	K	PL	M8956-0-DBP	D
			[I]								
			[J]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[K]	D-UA-M8956-0-0		B-DD-M8956-0-0		Z0811D.PLS		16	
			[L]								
			[M]								
			[N]								

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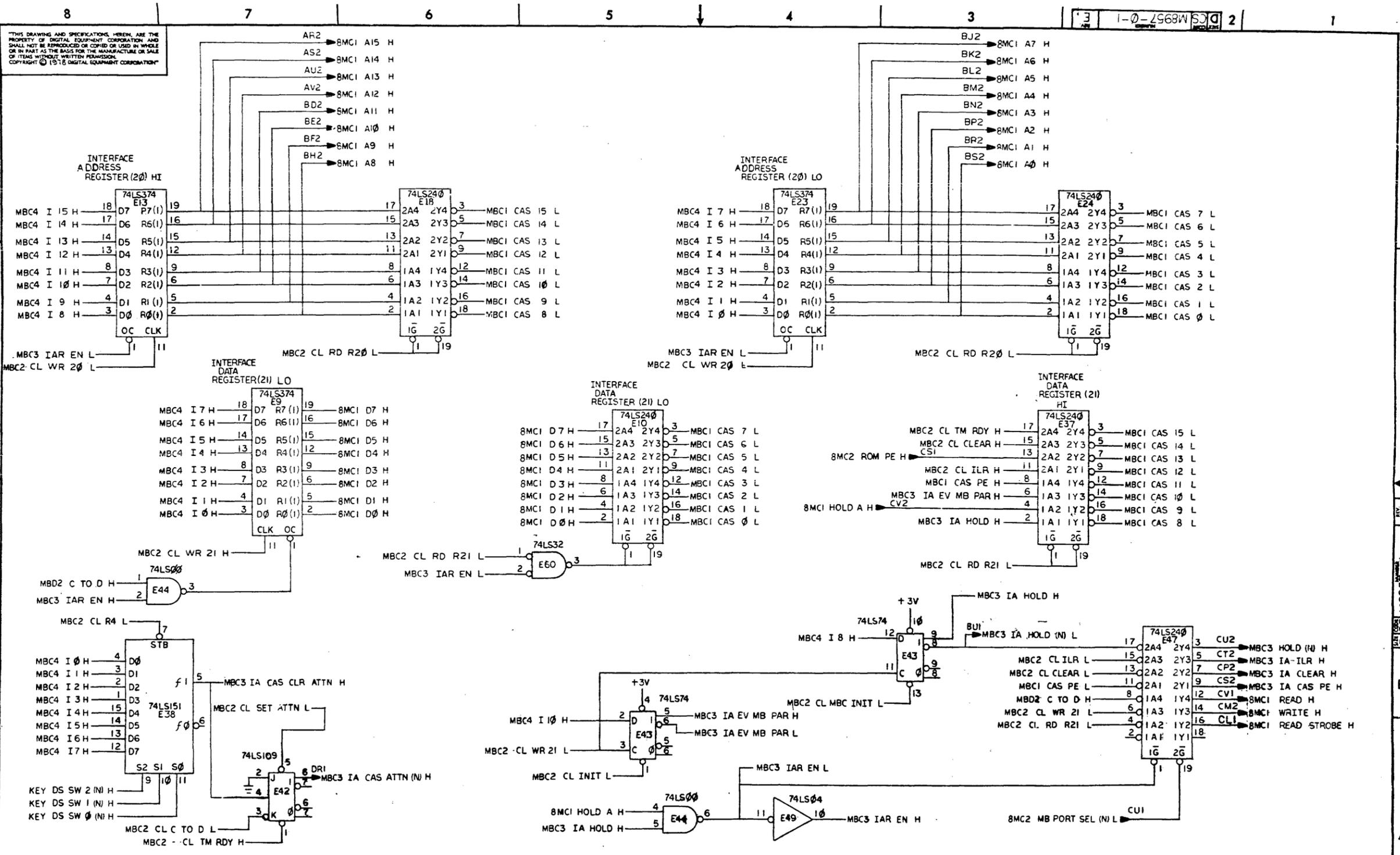
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
28	28	D-MD-5013039-0-0		DRILL & ETCH DWG	REF	
29	29	D-EC-5013039-0-0		ETCH CUT DWG	REF	
30	30		9107688-22	*** THIS ITEM IS NOT USED ***	-	
31	31		9107688-00	*** THIS ITEM IS NOT USED ***	-	

DIGITAL							TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MASS BUS DATA PORT		K	PL	M8956-0-DBP	D



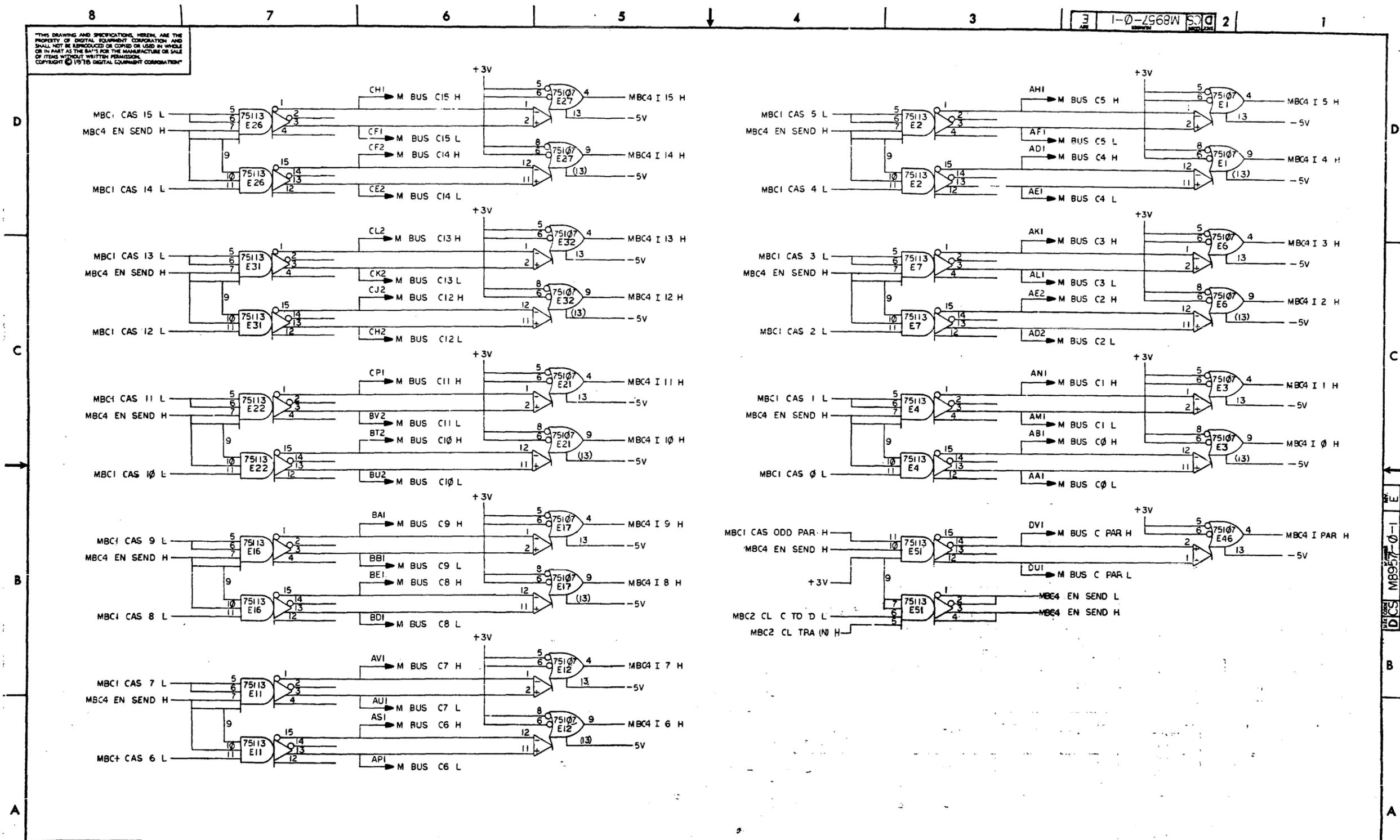
REV.	CHANGE NO.	BY	DATE
1	1	D. JERVIS	12/12/80
2	2	D. JERVIS	12/12/80
3	3	D. JERVIS	12/12/80
4	4	D. JERVIS	12/12/80
5	5	D. JERVIS	12/12/80
6	6	D. JERVIS	12/12/80
7	7	D. JERVIS	12/12/80
8	8	D. JERVIS	12/12/80

DRN: B-98-981-4212	FIRST USED ON	TM78	digital
CHK'D: [Signature]	DATE	12/12/80	
ENG: [Signature]	TITLE	MASSBUS CONTROL (CAS)	
PROJ. ENG: [Signature]	PROD: [Signature]	MBCI	
NEXT HIGHER ASSY:	SIZE	CODE	NUMBER
B-DD-M8957-0	D	CS	M8957-0-1
SCALE: NONE	SHEET	1	OF 5
DIST.			



REVISIONS			INTERNAL ADDRESSING				MBC3	
CHK	CHANGE NO.	REV.	TITLE	SIZE	NUMBER	REV.		
			MASSBUS CONTROL (IA)	DCS	M8957-0-1	E		
			SCALE NONE	SHEET 3	OF 5	DIST.		

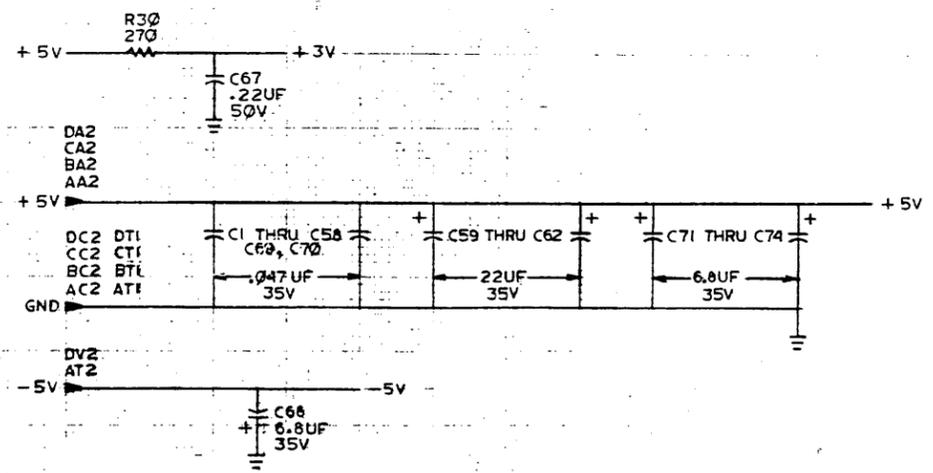
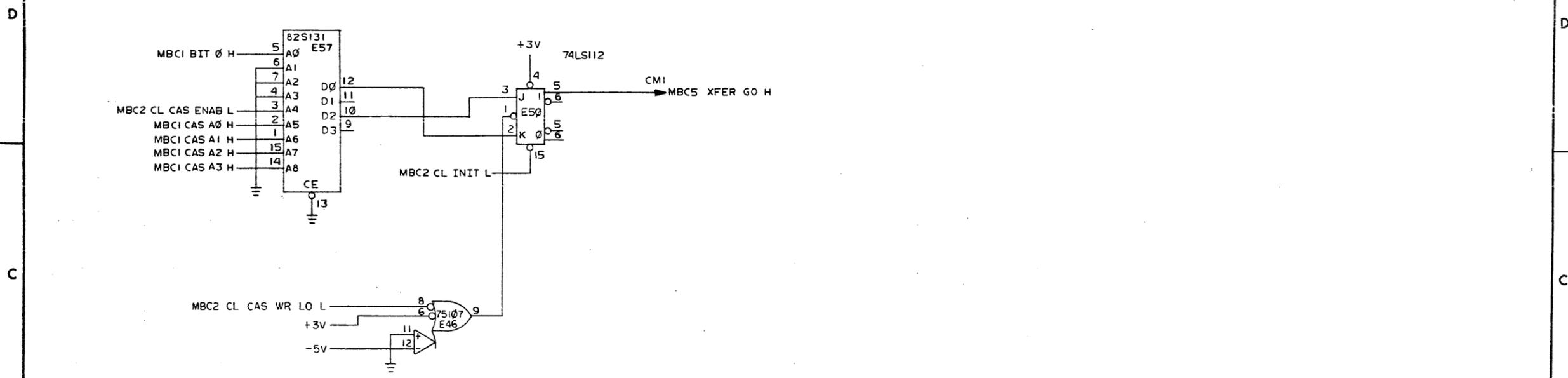
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REVISIONS		
CHK	CHANGE NO.	REV.

010 0000 DCS M8957-0-1 EU

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REVISIONS		
CHK	CHANGE NO.	REV.

DCS M8957-0-1
 REV. E

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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

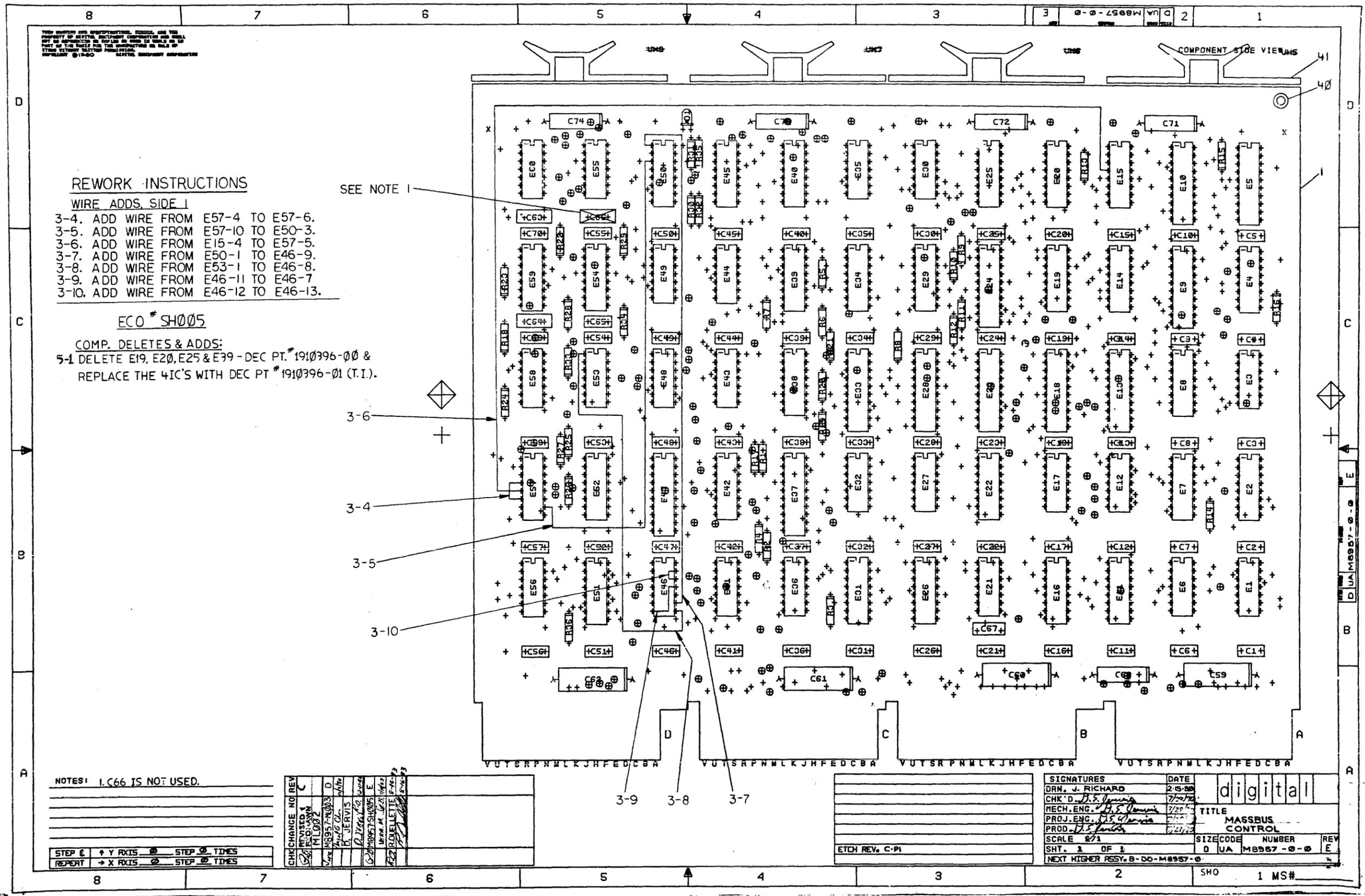
NOTES: 1. C66 IS NOT USED.

STEP	Y AXIS	STEP	TIMES
REPEAT	X AXIS	STEP	TIMES

CHECK	NO	REV
DESIGNED		
DRN		
CHK'D		
MECH. ENG.		
PROD.		

ETCH REV. C-01

SIGNATURES		DATE	digital
DRN. J. RICHARD		2-5-68	
CHK'D. D. S. JENNIFER		7/20/70	
MECH. ENG. B. S. DOMINI		7/20/70	
PROJ. ENG. J. S. DOMINI		7/20/70	TITLE
PROD. D. S. JENNIFER		7/20/70	MASSBUS CONTROL
SCALE 2/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 1	D UA M8957-0-0		E
NEXT HIGHER ASSY. 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	6.8MFD 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	660.0 .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:	P. BOSSMAN	DATE: 27-AUG-79	TITLE PARTS LIST			
	INIT	A	SECTION VARIATION INDEX				MASSBUS CONTROL			
DJ	M8957-ML001	B	[A] 00							
DJ	M8957-ML002	C	[B]							
DJ	M8957-ML003	D	[C]							
R.O.	M8957-SH005	E	[D]							
			[E]							
			[F]							
			[H]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							
				MFG.ENG.:	P. BARTON	DATE: 27-AUG-79	SIZE: K	CODE: PL	NUMBER: M8957-0-DBP	REV: E
				ASSEMBLY NUMBER:	D-UA-M8957-0-0	TOP DOCUMENT NUMBER:	#B-DD-M8957-0	FILE NAME:	ZC812E.PLS	EDIT #: 18

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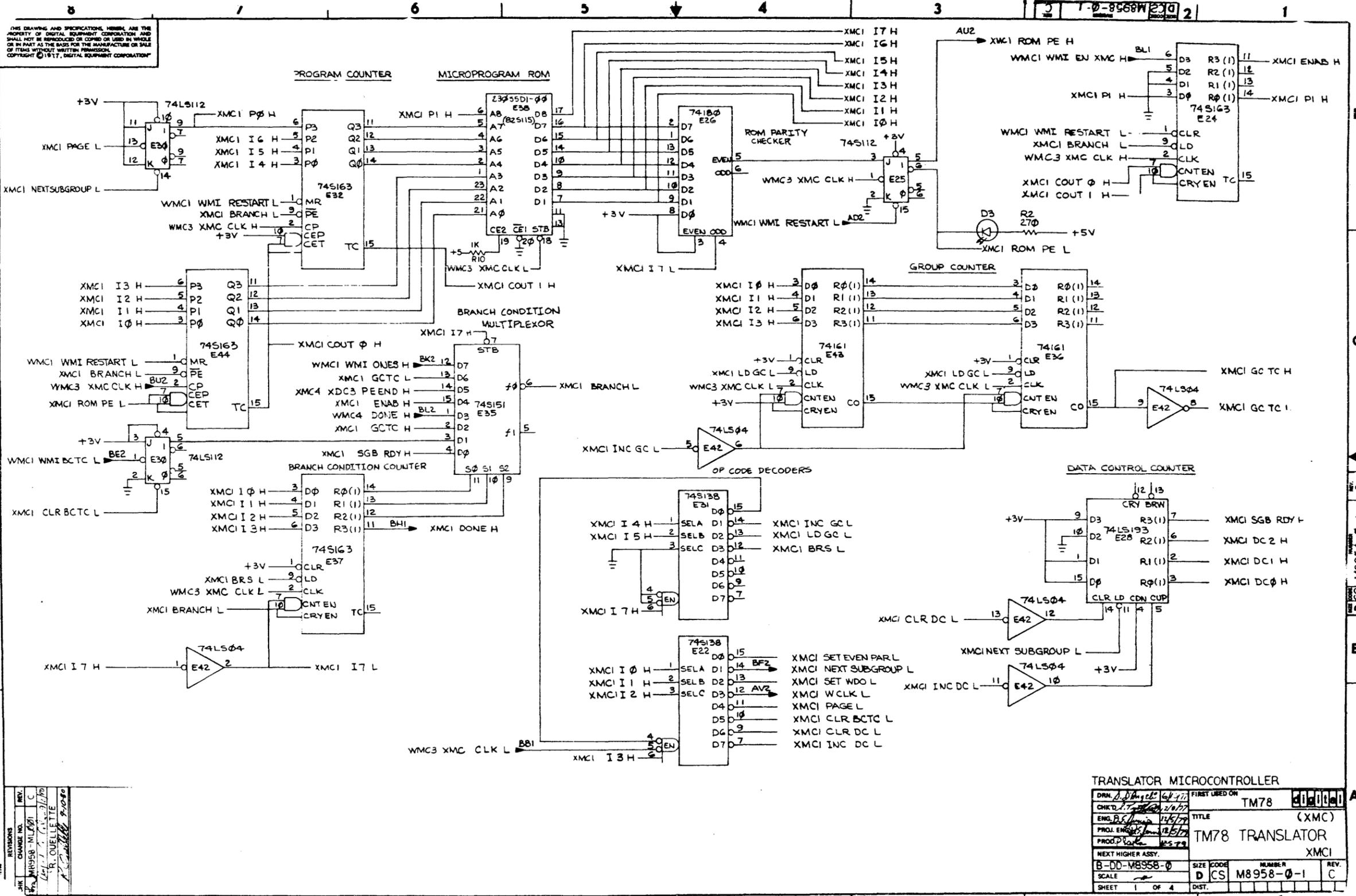
AUTOMATED BY PRTLST.2E(3)

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 0.12100X0.219	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

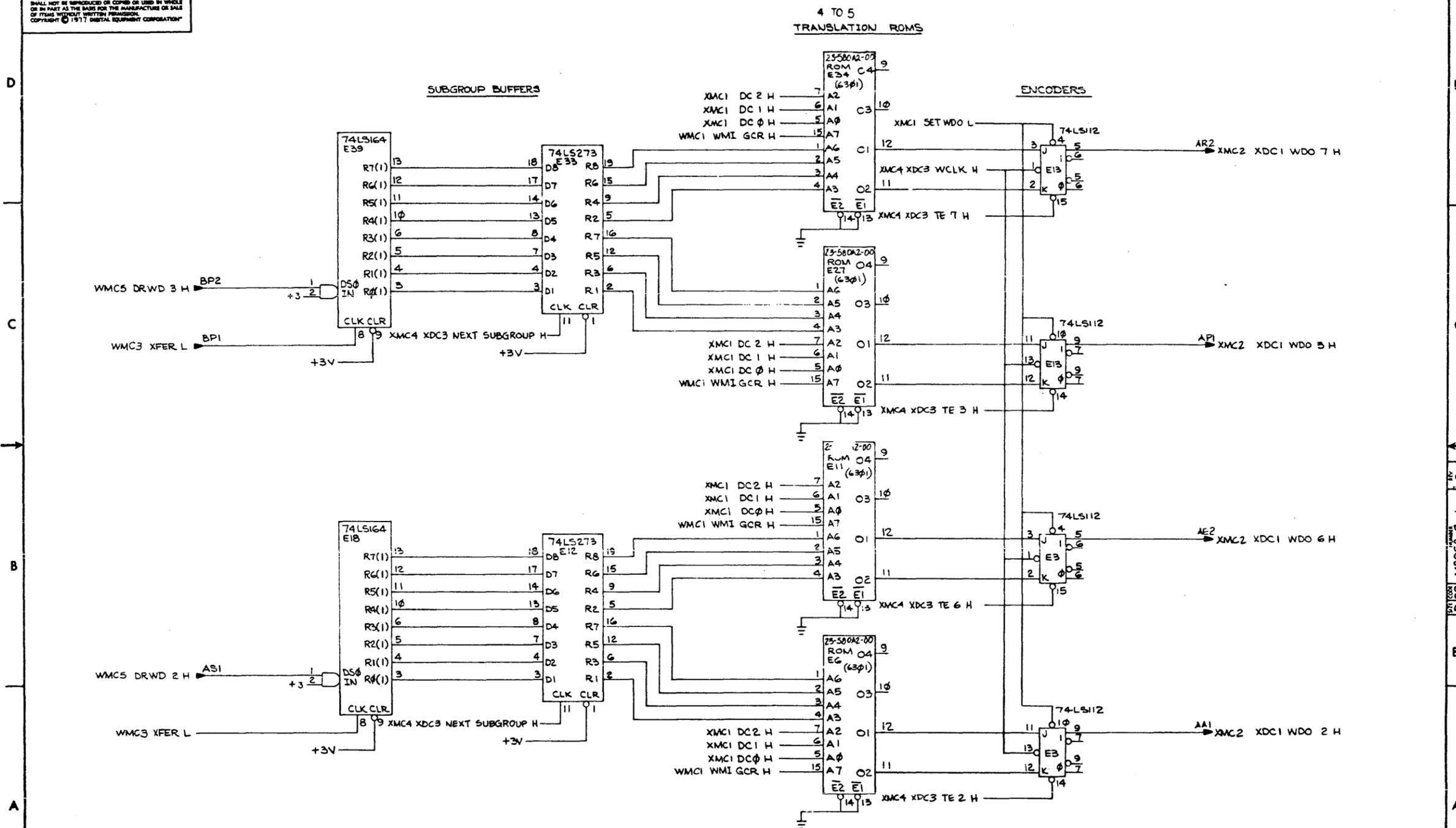
D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
CHK	HH	43					MASSBUS CONTROL		K	PL	M8957-0-DBP	E



REV.	DATE	BY	CHKD.
1	11/17/77	R. OUELLETTE	
2	12/15/77		
3	12/15/77		

TRANSLATOR MICROCONTROLLER			
DRN. 11/17/77	FIRST USED ON	TM78	
CHKD. 12/15/77	TITLE	(XMC)	
ENGR. 12/15/77	TITLE	TM78 TRANSLATOR	
PROD. 12/15/77	TITLE	XMC1	
NEXT HIGHER ASSY.	SIZE	CODE	NUMBER
B-DD-M8958-0	D	CS	M8958-0-1
SCALE	DIST.		
SHEET 1 OF 4			

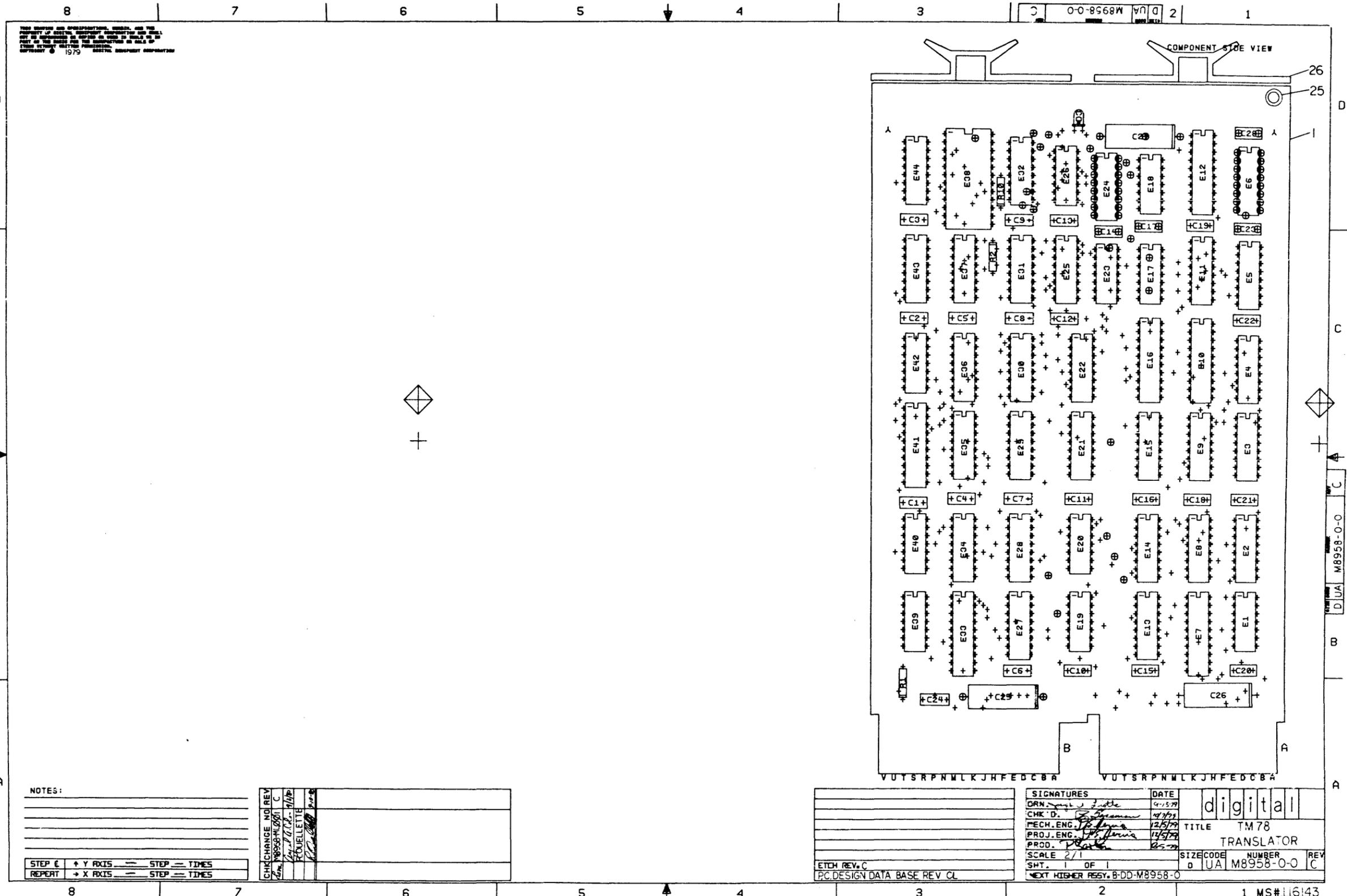
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		TRANSLATOR DATA CONTROL 1 XMC2	
TM78 TRANSLATOR (XDC1)		SIZE CODE	NUMBER
SCALE		DCS	M8958-0-1
SHEET 2 OF 4		DIST.	

DCS M8958-0-1



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 PORTION OF THIS DRAWING WHICH IS CLASSIFIED AS SECRET.
 THIS PORTION OF THIS DRAWING IS CLASSIFIED AS SECRET
 UNLESS INDICATED OTHERWISE. DATE 12/15/79
 1979

NOTES:

CHG. NO.	REV.	DATE	BY
1	C	12/15/79	W. J. [Signature]
2			
3			
4			

ETCH REV. C
 PC DESIGN DATA BASE REV. CL

SIGNATURES	DATE	digital
DRN. [Signature]	12/15/79	
CHK'D. [Signature]	12/15/79	TITLE TM 78
TECH. ENG. [Signature]	12/15/79	TRANSLATOR
PROJ. ENG. [Signature]	12/15/79	SCALE 2/1
PROD. [Signature]	12/15/79	SHT. 1 OF 1
		SIZE CODE NUMBER
		D UA M8958-0-0 C
		REV
		C

1 MS# 1643

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
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 1MCD@10MA 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 1I	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	1912852-00	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	

REVISION HISTORY		BASIC PART NO: M8958		DRN: R. WALDIE		DATE: 28-AUG-78		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	P. BOSSMAN	DATE:	07-SEP-79	TITLE	PARTS LIST
---	INIT	B	SECTION VARIATION INDEX	CHK'D:	P. BOSSMAN	DATE:	07-SEP-79		
RD	M8958-ML001	C	[A] 00					TM78 TRANSLATOR	
			[B]	DES.ENG:	D. JERVIS	DATE:	10-SEP-79		
			[C]						
			[D]	RESP.ENG.:	R. RICHMOND	DATE:	28-AUG-78		DOCUMENT NUMBER
			[E]						
			[F]						
			[G]						
			[H]						
			[I]	MFG.ENG.:	P. BARTON	DATE:	10-SEP-79	K	PL M8958-0-DBP
			[J]						
			[K]						
			[L]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			[M]	D-UA-M8958-0-0		#B-DD-M8958-0		Z0903C.PLS	10
			[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

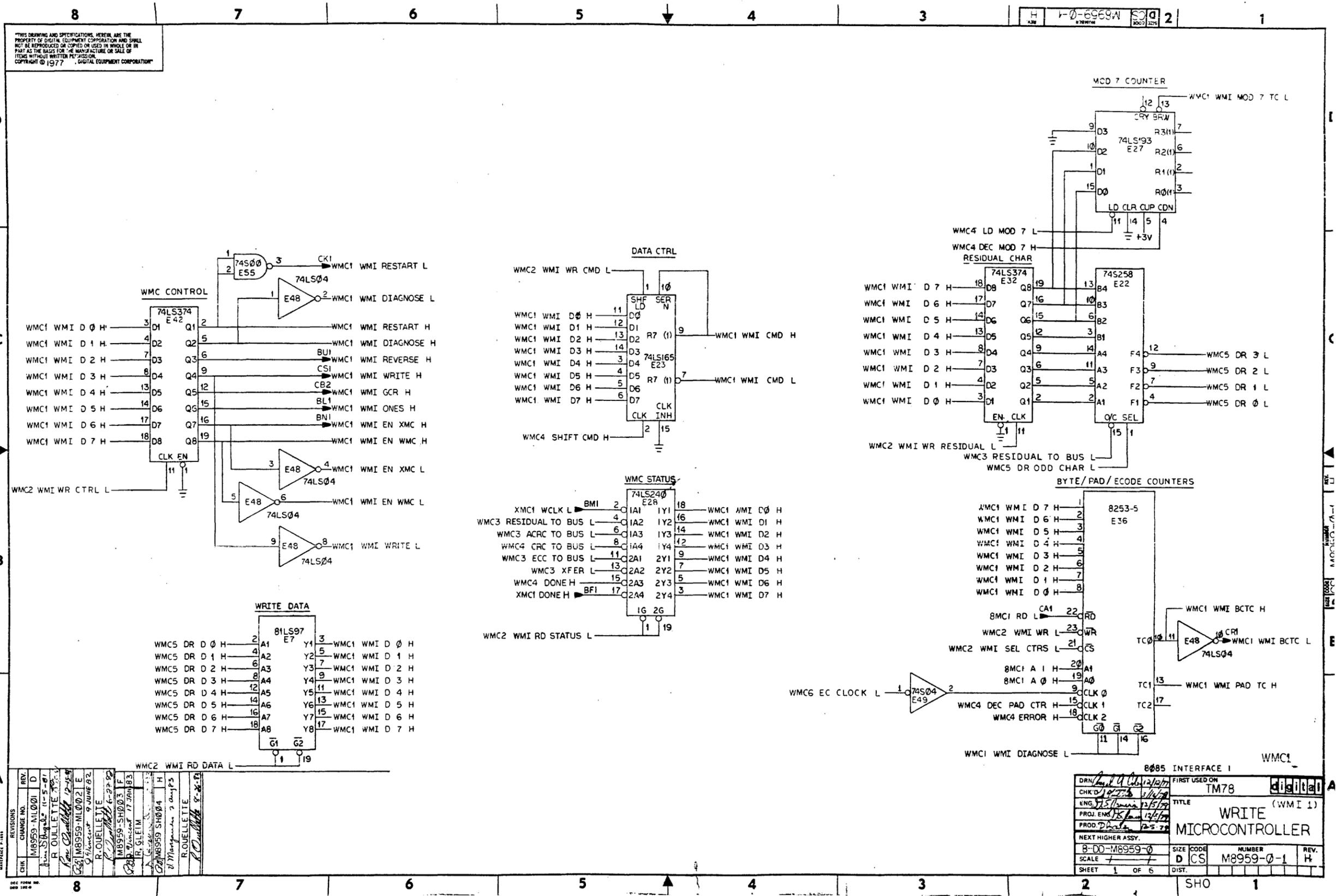
REFERENCE DESIGNATOR

31 31 D-EC-5013002-0-0

ETCH CUT DWG

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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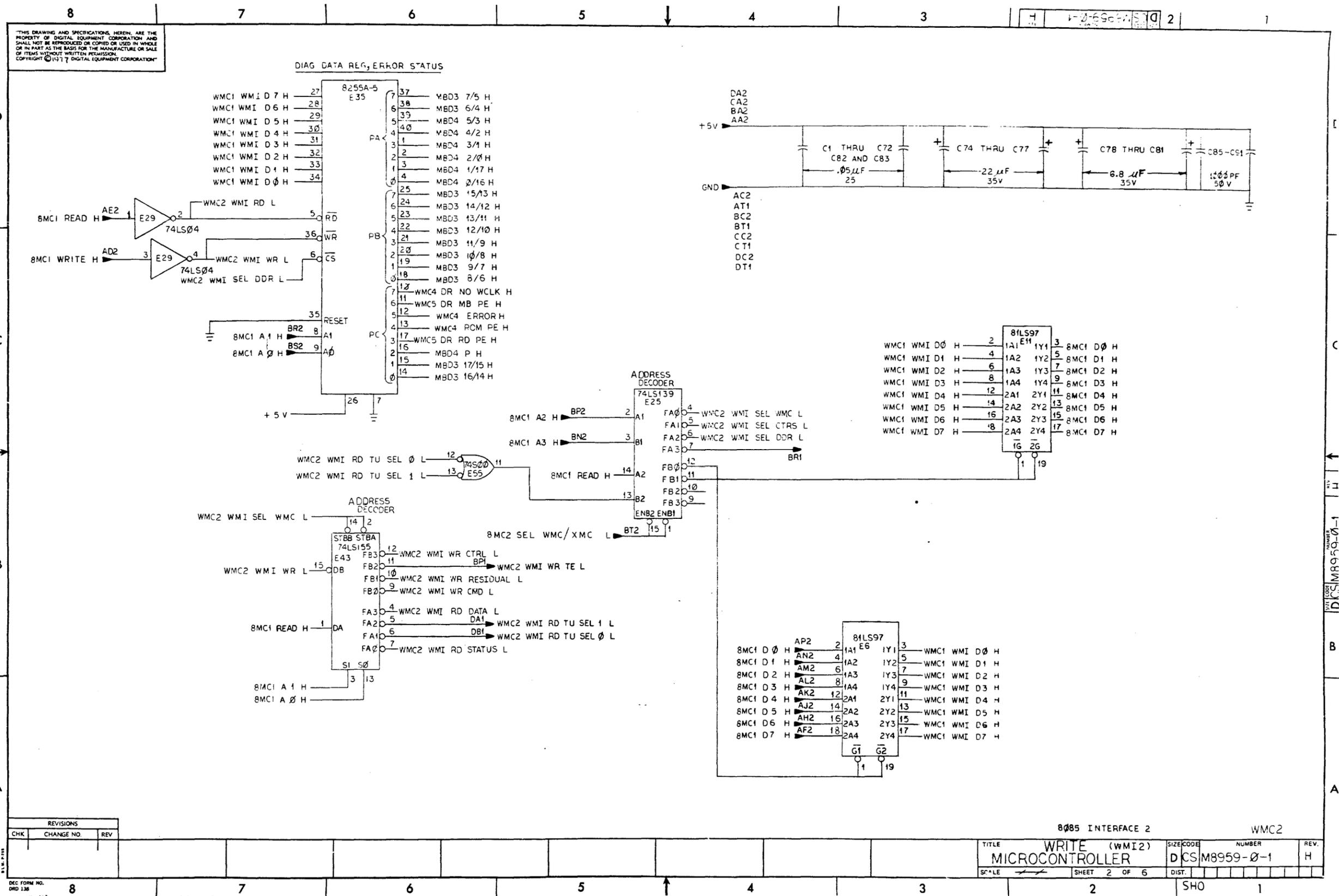
REVISIONS

CHK	CHANGE NO.	REV.	DATE
	M8959-NIL001	D	
	M8959-NIL002	E	
	M8959-SH003	F	
	M8959-SH004	H	

DESIGNED BY: R. OUELLETTE
 CHECKED BY: R. OUELLETTE
 DRAWN BY: R. OUELLETTE
 DATE: 12-25-77

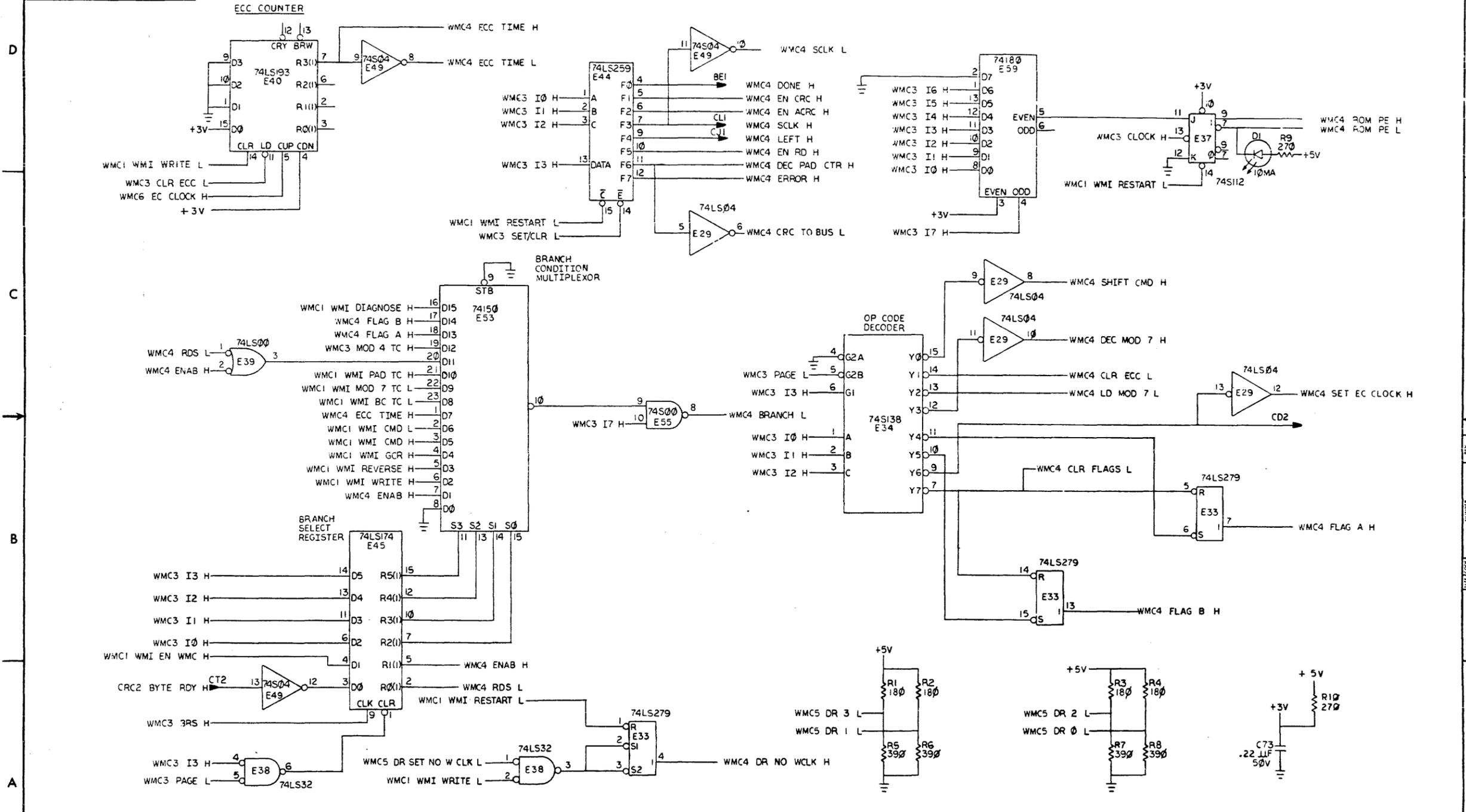
8085 INTERFACE I

DRN	12/12/77	FIRST USED ON	TM78
CHK'D	12/23/77		
ENG	12/23/77	TITLE	WRITE (WMI 1)
PROJ. ENG.	12/23/77		
PROD. DES.	12-25-77		
NEXT HIGHER ASSY.			
B-DD-M8959-0	SIZE CODE	NUMBER	REV.
SCALE 1 OF 6	D CS	M8959-0-1	H
SHEET 1 OF 6	DIST.		



REVISIONS		
CHK	CHANGE NO.	REV.

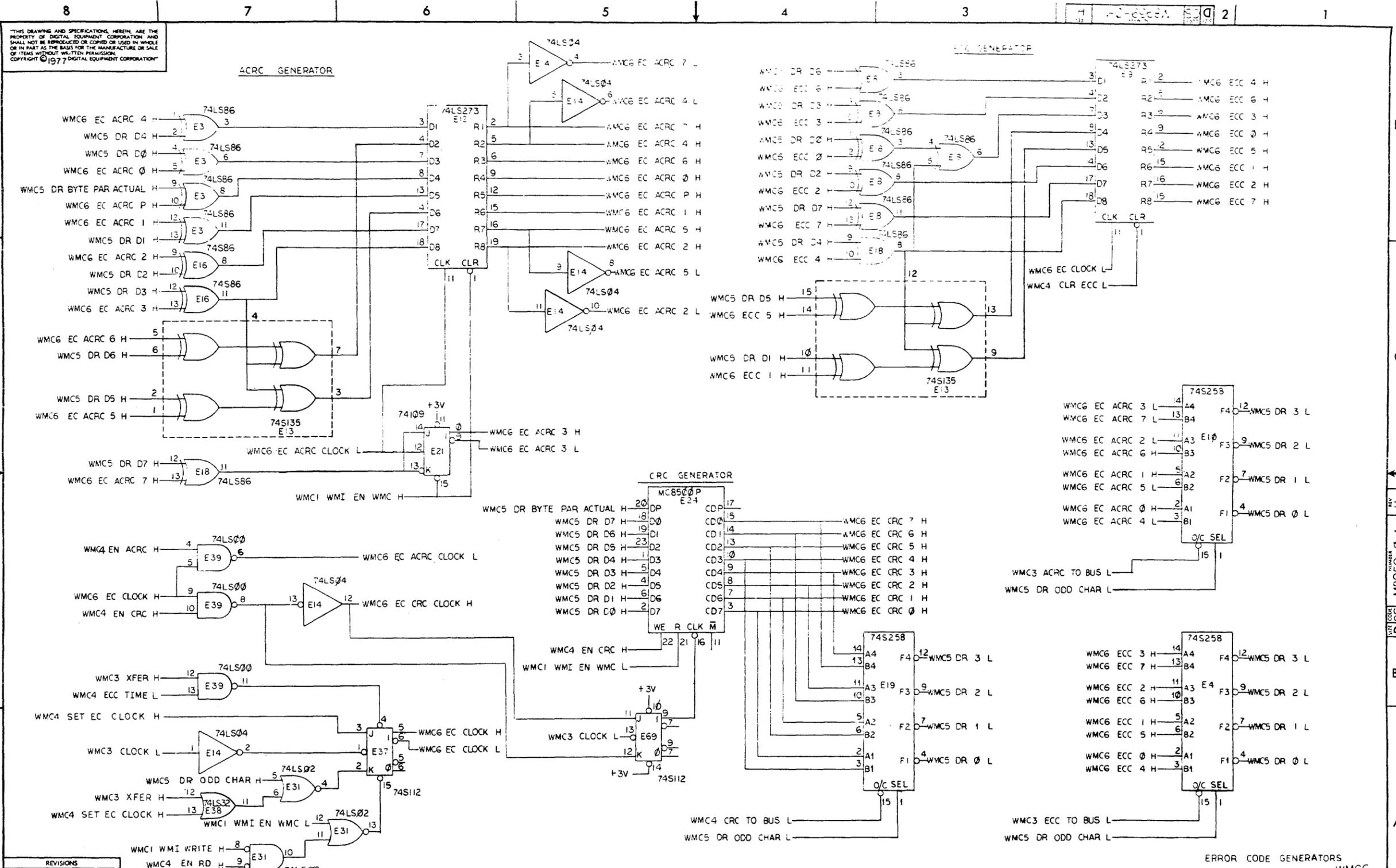
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		MICROCONTROLLER 2		NUMBER		REV.	
WRITE (WMC2)		DCS		M8959-0-1		H	
SCALE		SHEET 4 OF 6		DIST.		SHO	

NUMBER
 DATE
 TIME
 BY
 CHECKED
 APPROVED
 TITLE



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REVISIONS		
CHK	CHANGE NO.	REV.

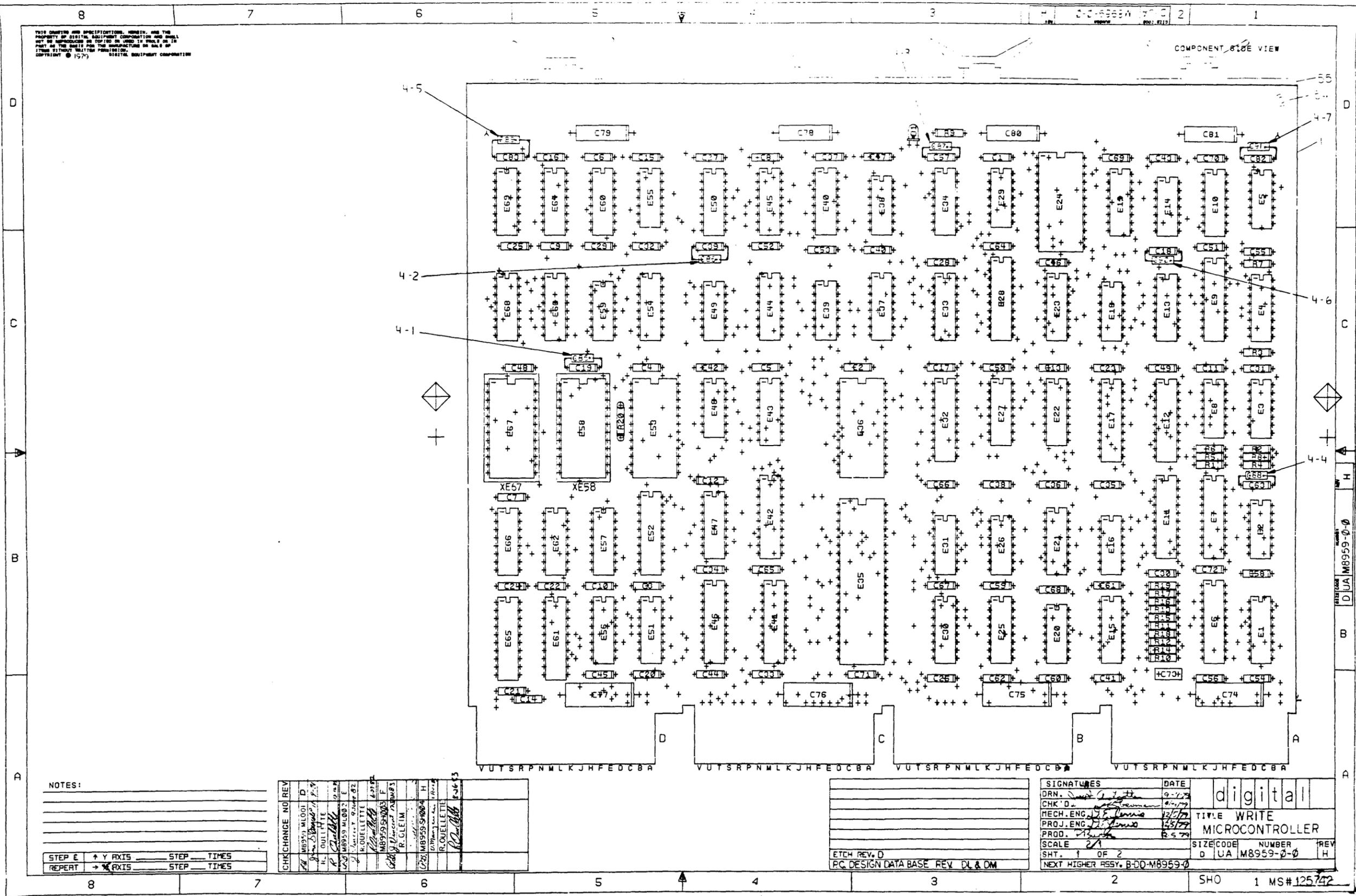
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SCALE	1:1	SHEET	6	OF	6	DIST.	

REV. H
NUMBER MB959-0-1
DCS

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0-0-8959A 700 2

COMPONENT SIDE VIEW



NOTES:

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

CH	CHANGE NO	REV
1	M8959 M1001	D
2	M8959 M1001	E
3	M8959 M1001	F
4	M8959 M1001	G
5	M8959 M1001	H
6	M8959 M1001	I
7	M8959 M1001	J
8	M8959 M1001	K
9	M8959 M1001	L
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12	M8959 M1001	O
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130	M8959 M1001	DY

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

SIGNATURES	DATE
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CHK'D. <i>[Signature]</i>	9-1-77
MECH. ENG. <i>[Signature]</i>	12/5/77
PROJ. ENG. <i>[Signature]</i>	12/5/77
SCALE 2/1	
SHT. 1 OF 2	
NEXT HIGHER ASSY. B-00-M8959-0	

digital
TITLE WRITE
MICROCONTROLLER
SIZE CODE NUMBER REV
D UA M8959-0-0 H

SHO 1 MS#125742

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H 0-0-6586W 77 D

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

C

B

A

D

C

B

A

DRAWING NUMBER
 DUA M8959-0-0
 SHEET 2 OF 2

REVISION HISTORY		
REV.	ECO NUMBER	DATE

TITLE
 WRITE
 MICROCONTROLLER

DOCUMENT NUMBER		REV
SIZE	CODE	NUMBER
D	UA	M8959-0-0
SCALE	2/1	SHEET 2 OF 2

ORD 1370
 EN-0124-16-REV A(20)

8 7 6 5 4 3 2 1

SHO 1

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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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	74S133 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		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: E. DANCAUSE	DATE: 28-AUG-78
---	INIT	C	SECTION VARIATION INDEX	CHK'D: S. TUTTLE	DATE: 28-AUG-78
R,0	M8959-ML001	D	[A] 00	DES.ENG: DAVE JERVIS	DATE: 22-JUN-79
RO	M8959-ML002	E	[B]	RESP.ENG.: DAVE JERVIS	DATE: 22-JUN-79
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			[D]		
			[E]		
			[F]		
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			[H]		
			[I]		
			[J]		
			[K]	MFG.ENG.: PETER BARTON	DATE: 22-JUN-79
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			[M]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:
			[N]	D-UA-M8959-0-0	#B-DD-M8959-0
					FILE NAME: Z0939E.PLS
					EDIT #: 18

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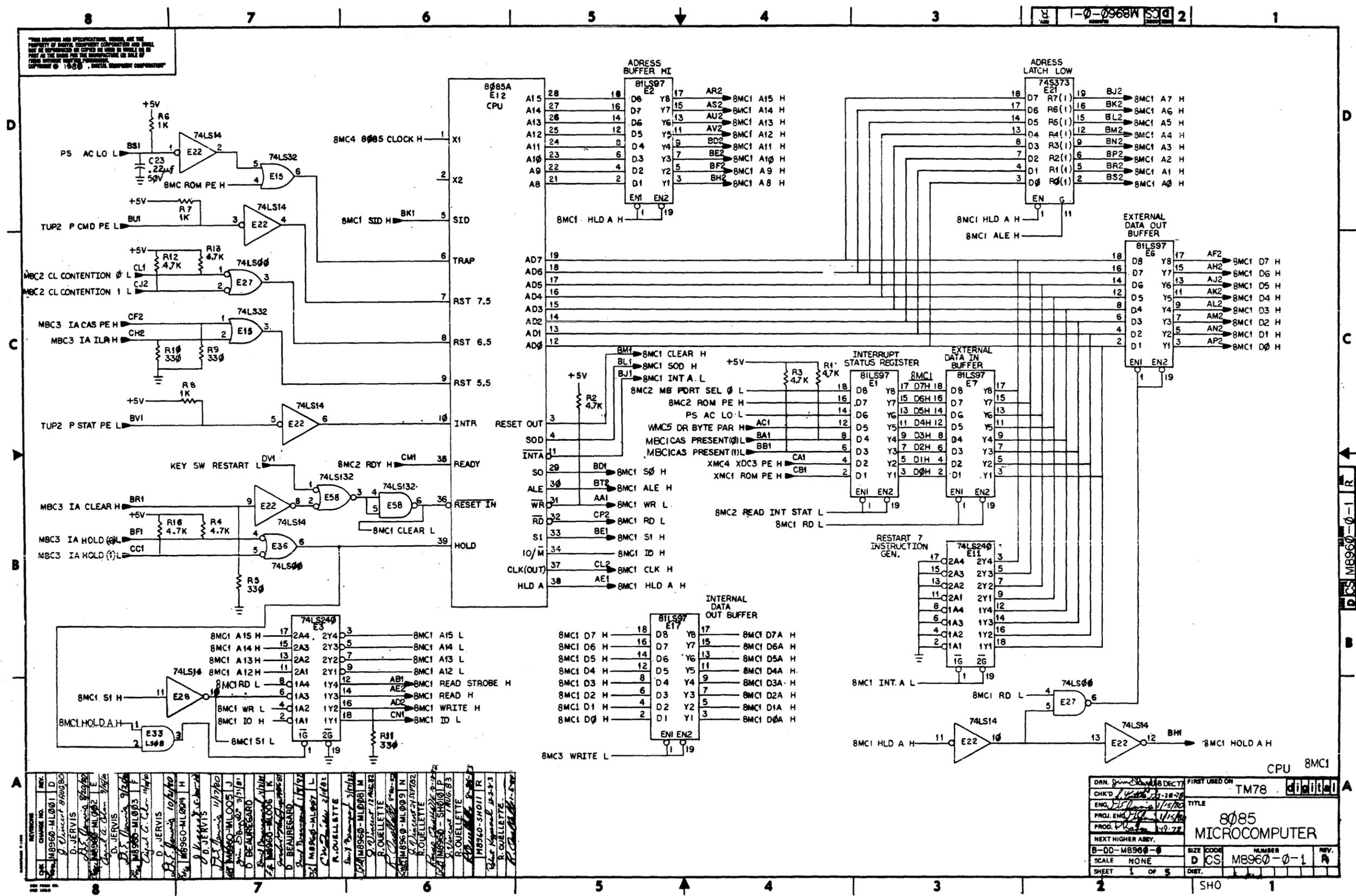
ML2

PARTS LIST

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

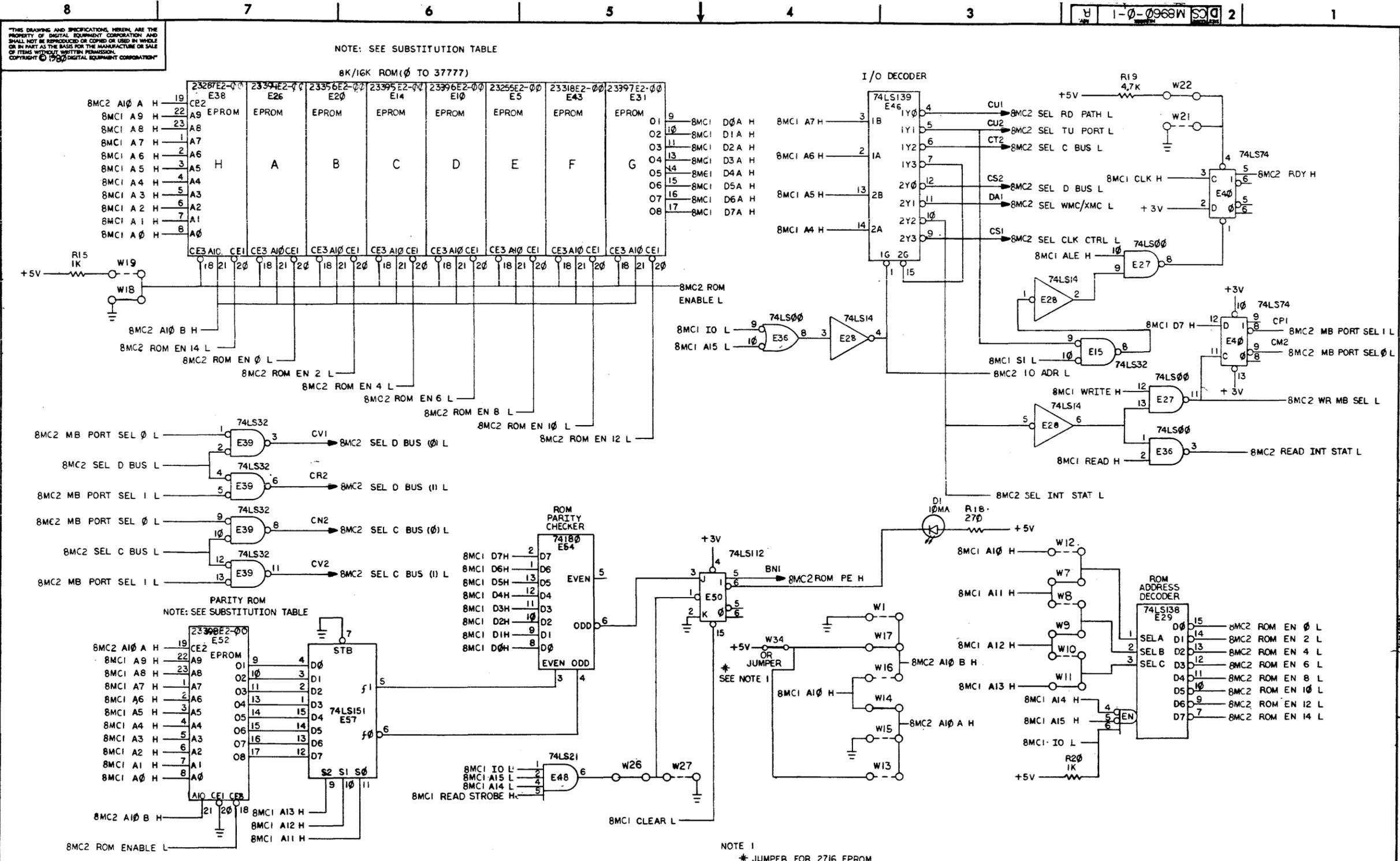
! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV !
! ! ! ! ! ! ! !	WRITE MICROCONTROLLER	! ! ! ! ! ! ! !	! K ! PL !	MB959-0-DBP	! E !

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REV.	DATE	BY	CHK'D	APP'D	DESCRIPTION
1	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	INITIAL DESIGN
2	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 1
3	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 2
4	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 3
5	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 4
6	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 5
7	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 6
8	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 7
9	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 8
10	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 9
11	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 10
12	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 11
13	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 12
14	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 13
15	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 14
16	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 15
17	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 16
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21	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 20
22	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 21
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42	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 41
43	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 42
44	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 43
45	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 44
46	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 45
47	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 46
48	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 47
49	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 48
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51	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 50
52	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 51
53	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 52
54	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 53
55	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 54
56	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 55
57	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 56
58	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 57
59	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 58
60	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 59
61	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 60
62	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 61
63	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 62
64	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 63
65	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 64
66	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 65
67	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 66
68	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 67
69	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 68
70	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 69
71	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 70
72	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 71
73	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 72
74	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 73
75	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 74
76	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 75
77	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 76
78	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 77
79	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 78
80	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 79
81	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 80
82	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 81
83	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 82
84	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 83
85	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 84
86	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 85
87	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 86
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94	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 93
95	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 94
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97	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 96
98	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 97
99	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 98
100	11/15/76	D. JERVIS	D. JERVIS	D. JERVIS	REVISION 99

DRN	11/15/76	DEC 77	FIRST USED ON	TM78
CHK'D	D. JERVIS	11/15/76	TITLE	8085 MICROCOMPUTER
ENG.	D. JERVIS	11/15/76	SCALE	NONE
PROJ. ENGR.	D. JERVIS	11/15/76	SHEET	1 OF 5
PROD. ENGR.	D. JERVIS	11/15/76	SIZE CODE	D CS M8960-0-1
NEXT HIGHER ASSY.	B-DD-M8960-0	NUMBER	REV.	1
SCALE	NONE	DIST.		



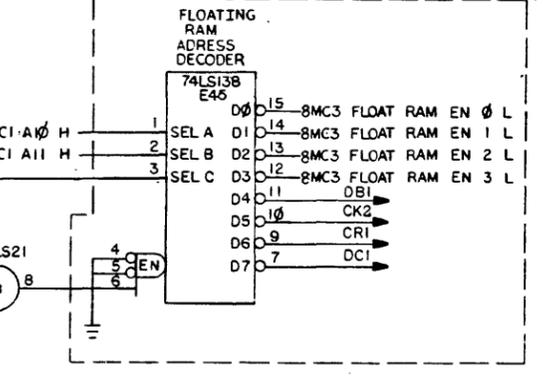
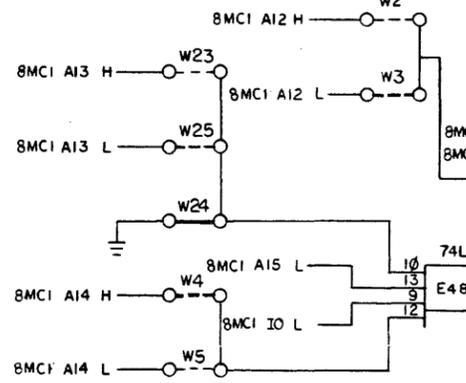
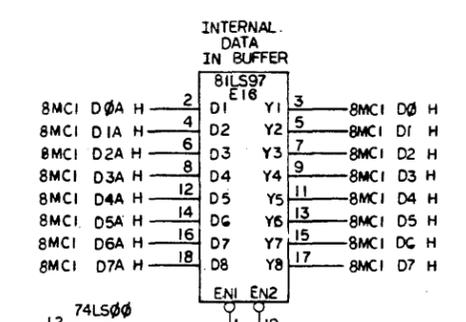
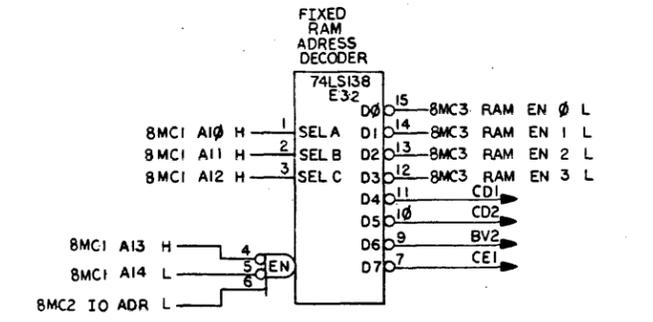
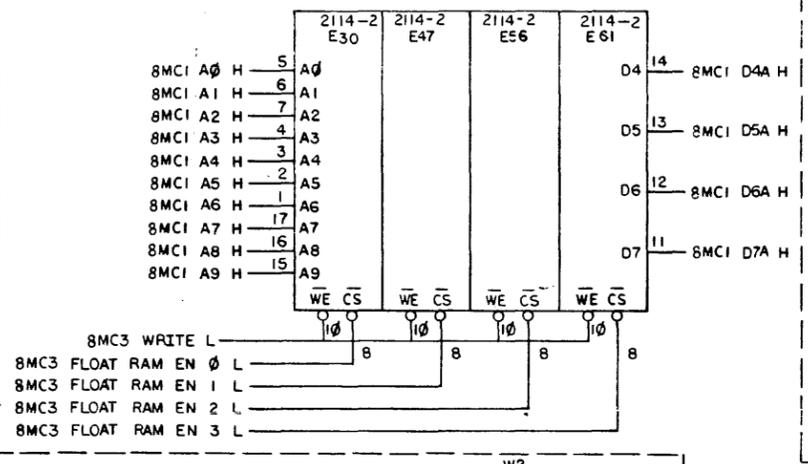
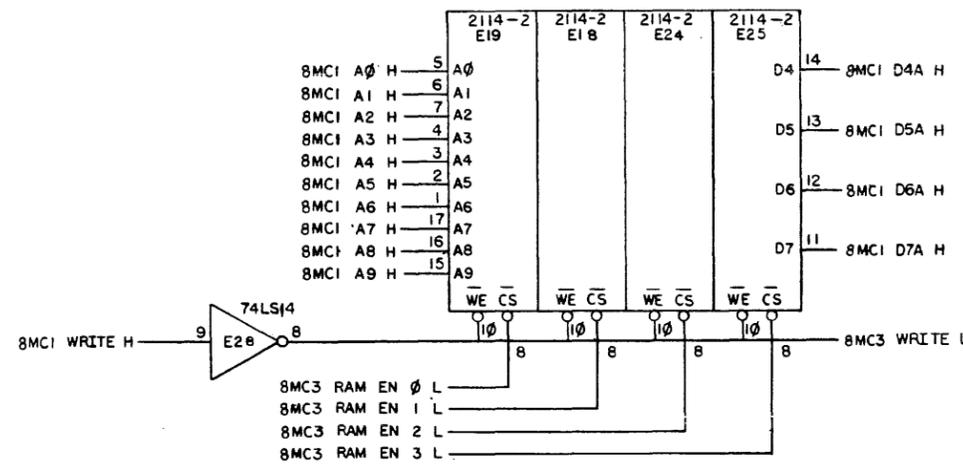
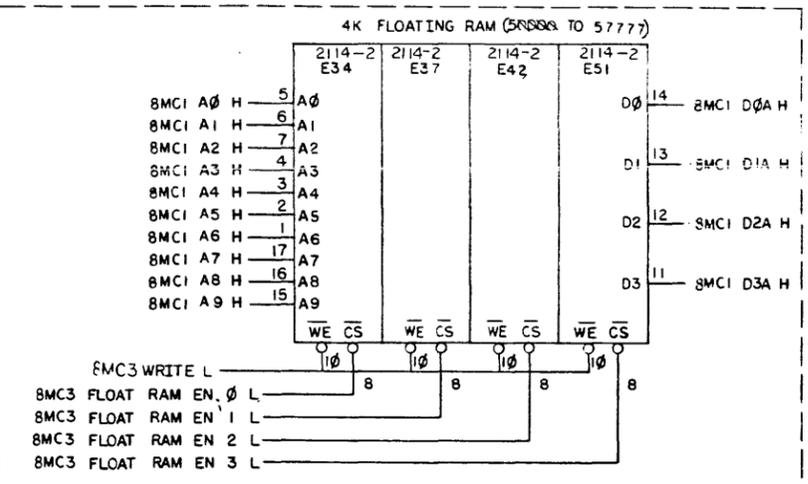
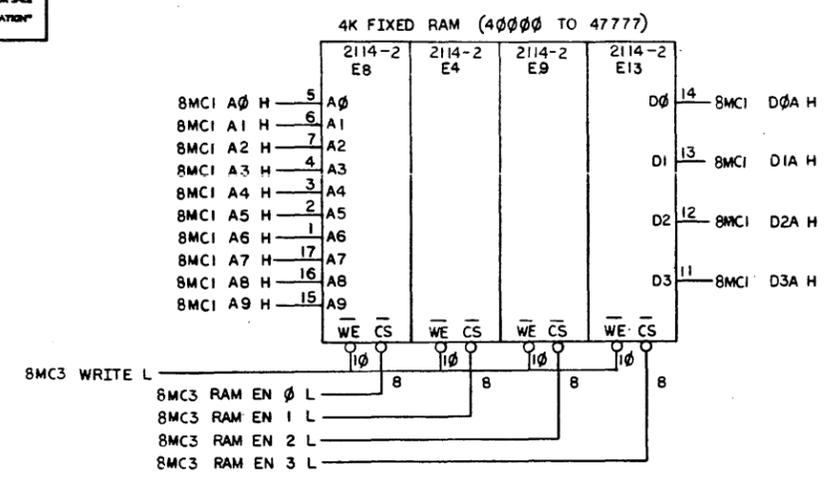
REVISIONS		
CHK	CHANGE NO.	REV.

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

TITLE		E PROMS		8MC2	
8085 MICROCOMPUTER		SIZE CODE	NUMBER	REV.	
SCALE NONE		DCS	M8960-0-1	B	
SHEET 2 OF 5		DST.		SHO	

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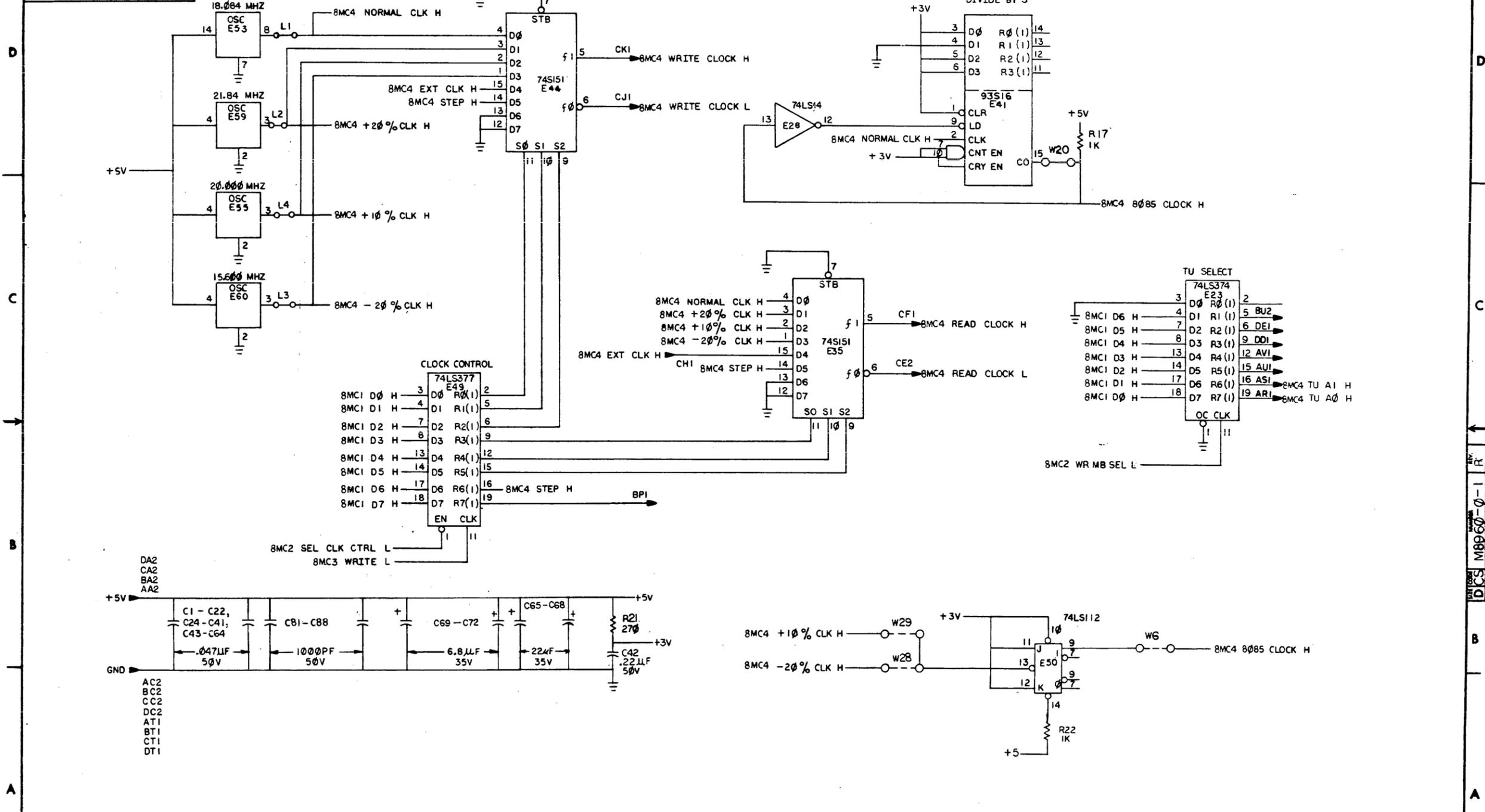
NOTE:
PARTS ENCLOSED ARE NOT USED IN TM78.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		RAMS		8MCI	
8085 MICROCOMPUTER		DCS M8960-0-1		R	
SCALE	NONE	SHEET	3 OF 5	DIST.	SHO

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REVISIONS		
CHK	CHANGE NO.	REV.

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

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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	82S191 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.

TITLE		SIZE CODE		NUMBER		REV.
8085 MICROCOMPUTER		DCS		M8960-0-1		R
SCALE	SHEET	OF	DIST.			
	5	5				

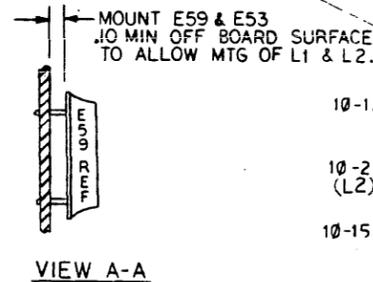
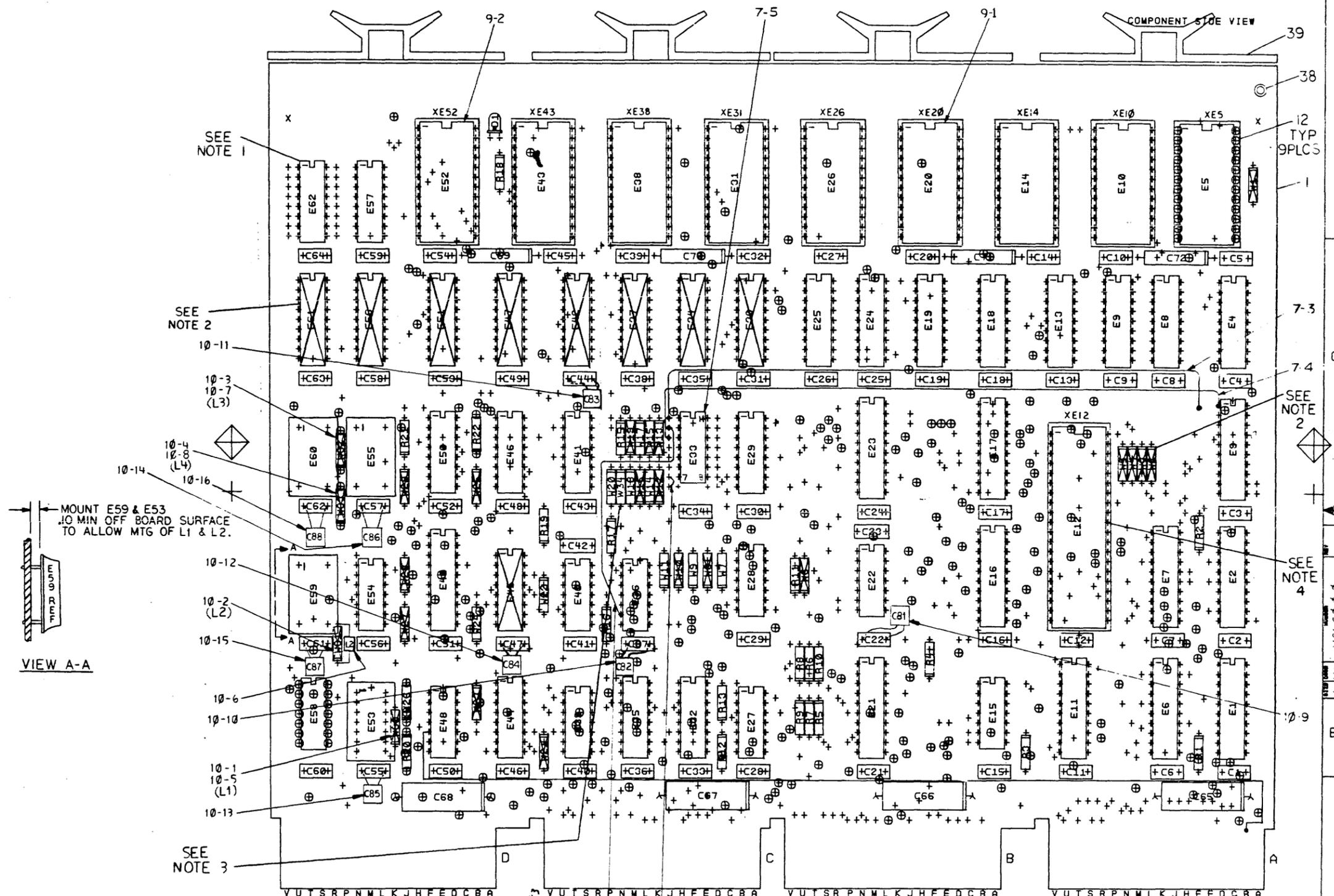
REV. R M8960-0-1 DCS

8MC5

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D
C
B
A



- NOTES: 1. E62 ARE SPARE I/O LOCATIONS.
 2. PARTS CROSSED OUT ARE NOT TO BE INSTALLED AT ASSEMBLY.
 3. REWORK INSTRUCTION: REPLACE R14, 1K 1/4W RESISTOR WITH A JUMPER W34.
 4. E12W16, 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

CHG	NO	REV	DATE	BY	CHK'D
1	1	1	11/16/79	D. JERVIS	D. JERVIS
2	1	1	11/17/79	D. JERVIS	D. JERVIS
3	1	1	11/18/79	D. JERVIS	D. JERVIS
4	1	1	11/18/79	D. JERVIS	D. JERVIS
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99	1	1	11/18/79	D. JERVIS	D. JERVIS
100	1	1	11/18/79	D. JERVIS	D. JERVIS

ETCH REV. D

SIGNATURES		DATE
DRN.		
CHK'D.		11/16/79
MECH. ENG.		11/17/79
PROJ. ENG.		11/18/79
PROD.		11/18/79
SCALE	2/1	
SHT.	1 OF 2	
NEXT HIGHER ASSY.	8-00-V23-0-0	

digital	
TITLE	8085 CPU
SIZE CODE	D UA M8500-02
NUMBER	1
REV	A
SHO	1 MS#116241

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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 #7

7-1 ADD WIRE SIDE 1 FROM E33-7 TO PTH BELOW PIN-7
7-2 ADD WIRE SIDE 1 FROM E33-2 TO E34-6
7-3 ADD WIRE SIDE 1 FROM E32-1 TO FORMER PTH OF E3-1
7-4 ADD WIRE SIDE 1 FROM E32-3 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.

ECO #10:

SIDE 1:

COMPONENT DELETES:

10-1. DELETE W30 JUMPER WIRE P/N 9000185-00.
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

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. H
NUMBER 0-0
D UA M8960-0-0

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 +80-20% CER	62	C1-C22, C24-C41, C43-C64
8	8		1002433-00	22 MFD 35V 20% S.TANT	4	C65-C68
9	9		1005306-00	6.8MFD 35V 10% S.TANT	4	C69-C72
10	10		1010274-01	.22 MFD 50V +80-20% Z5U 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 % CF	4	R5, R9, R10, R11
14	14		1300365-00	1.0 K .25 W 5.0 % CF	7	R6, R15, R17, R7, R8, R20, R22
15	15		1300447-00	4.70 K .25 W 5.0 % CF	8	R4, R16, R12, R13, R2, R3, R1, R19
16	16		1301972-00	270.0 .25 W 5.0 % 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, 8RIT 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	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	IC	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]					DOCUMENT NUMBER			
DB	M8960-ML006	K	[F]	RESP. ENG.:	BOB RICHMOND	DATE: 28-AUG-78					
R.O.	M8960-ML007	L	[H]				SIZE	CODE	NUMBER	REV	
R.O.	M8960-ML008	M	[J]								
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		#R-DD-M8960-0		Z0927R.PLS		36	

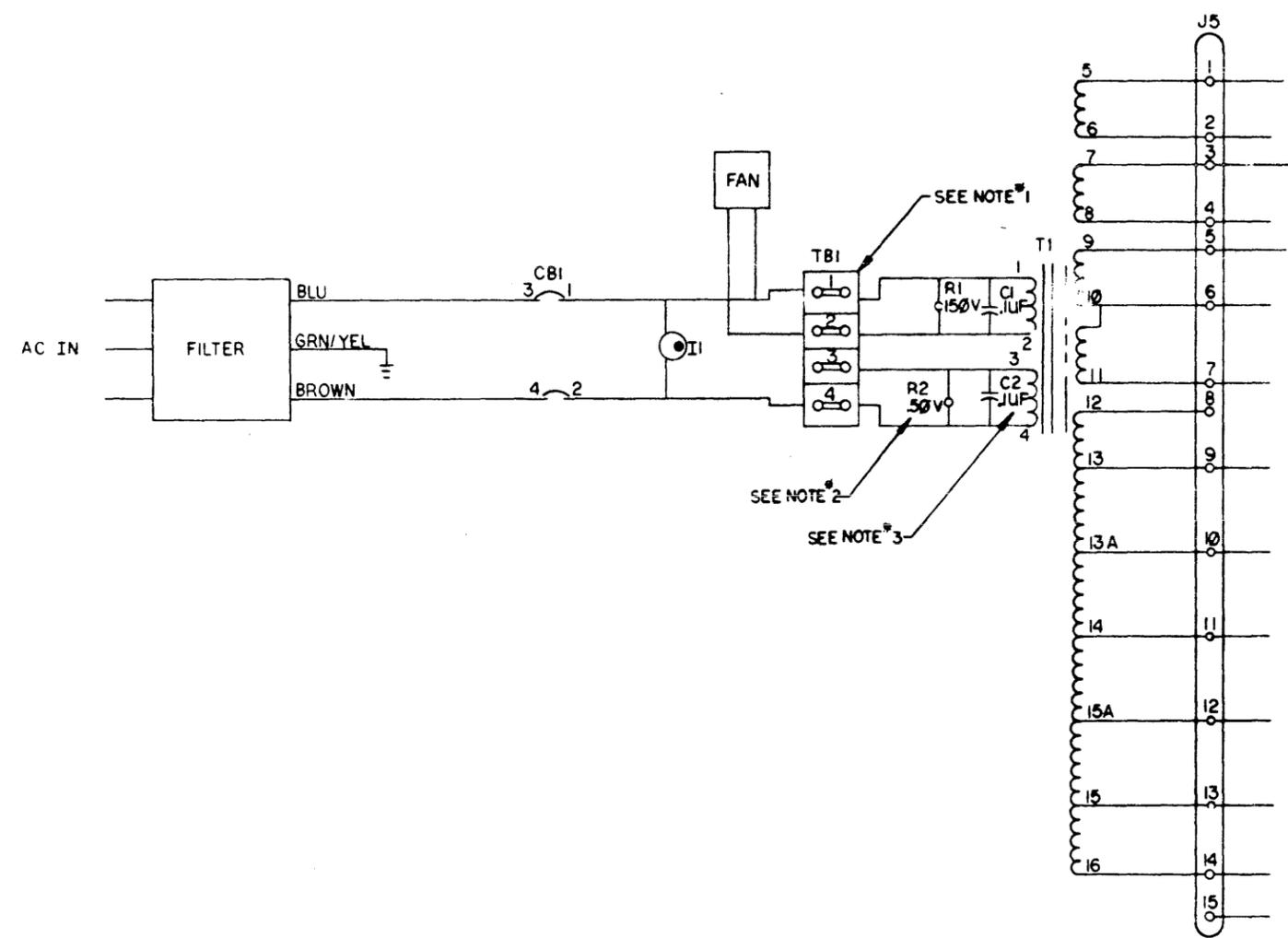
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30		1912843-00	LS139 DECODER, 2 OF 4(DUAL	1	E46
31	31		1912844-00	LS151 MUX 1 OF 8 & DATA	1	E57
32	32		1912872-00	LS377 FF-D 8BIT W/ENABLE	1	E49
33	33		1913414-00	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 MHF 50V 10% CER	8	C81-C88
60	60		1621574-01	BEAD,FERRITE	4	L1-L4

! D ! I ! G ! I ! T ! A ! L !	! TITLE !	! SECTION A OF A !	! SIZE !	! CODE !	! DOCUMENT NUMBER !	! REV !
	8085 CPU			K PL	M8960-0-DBP	R

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- NOTES:
1. WHEN 120V IS USED JUMPER PINS 1-3 AND 2-4 OF TB1 AS SHOWN. WHEN 240V IS USED JUMPER 2-3 ONLY.
 2. R1 AND R2 ARE 150V VARISTORS.
 3. C1 AND C2 ARE 270 VAC.



REVISION HISTORY	REV	DATE	INITIAL
	A		
	B	11/27/80	MLB
	C	1/14/81	MLB
	D	1/23/81	MLB
	E	1/23/81	MLB
	F	1/23/81	MLB
	G	1/23/81	MLB
	H	1/23/81	MLB
	I	1/23/81	MLB
	J	1/23/81	MLB
	K	1/23/81	MLB
	L	1/23/81	MLB
	M	1/23/81	MLB
	N	1/23/81	MLB
	O	1/23/81	MLB
	P	1/23/81	MLB
	Q	1/23/81	MLB
	R	1/23/81	MLB
	S	1/23/81	MLB
	T	1/23/81	MLB
	U	1/23/81	MLB
	V	1/23/81	MLB
	W	1/23/81	MLB
	X	1/23/81	MLB
	Y	1/23/81	MLB
	Z	1/23/81	MLB

ANGEL COLON	24-SEPT-80	TITLE	digital
A.H. M...	23-APR-80	H7422	
G. Barron	23-APR-80	CIRCUIT SCHEMATIC	
G. Barron	25-APR-80		
G. Barron	25-APR-80		
Paul Barber	4-23-80		
B-DD-H7422-0		DOCUMENT NUMBER	D CS H7422-0-1 B

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
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
			(E)			NUMBER	REV
			(F)	MFG. ENG.: PETER BARTON	DATE: 25-JAN-80	K	PL
				ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	
				E-UA-H7422-0-0	#B-DD-H7422-0	20572B.PLS	
						EDIT #	
						19	

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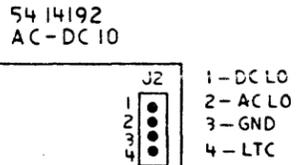
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					AA	AB
31	31		9006800-00	SPACER, HEX, ALUM, .138 ID X	.2	REF REF
32	32		7017366-00	CABLE ASSY. AC-DC-10 (OUTPUT)		REF REF
33	33		9008185-00	NUT, KEP 6-32X1/4 AF		REF REF
34	34		7017192-01	CABLE ASSY AC/10-10(240V)		REF REF
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	H7422 POWER SUPPLY	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	H7422-0-DBP	B

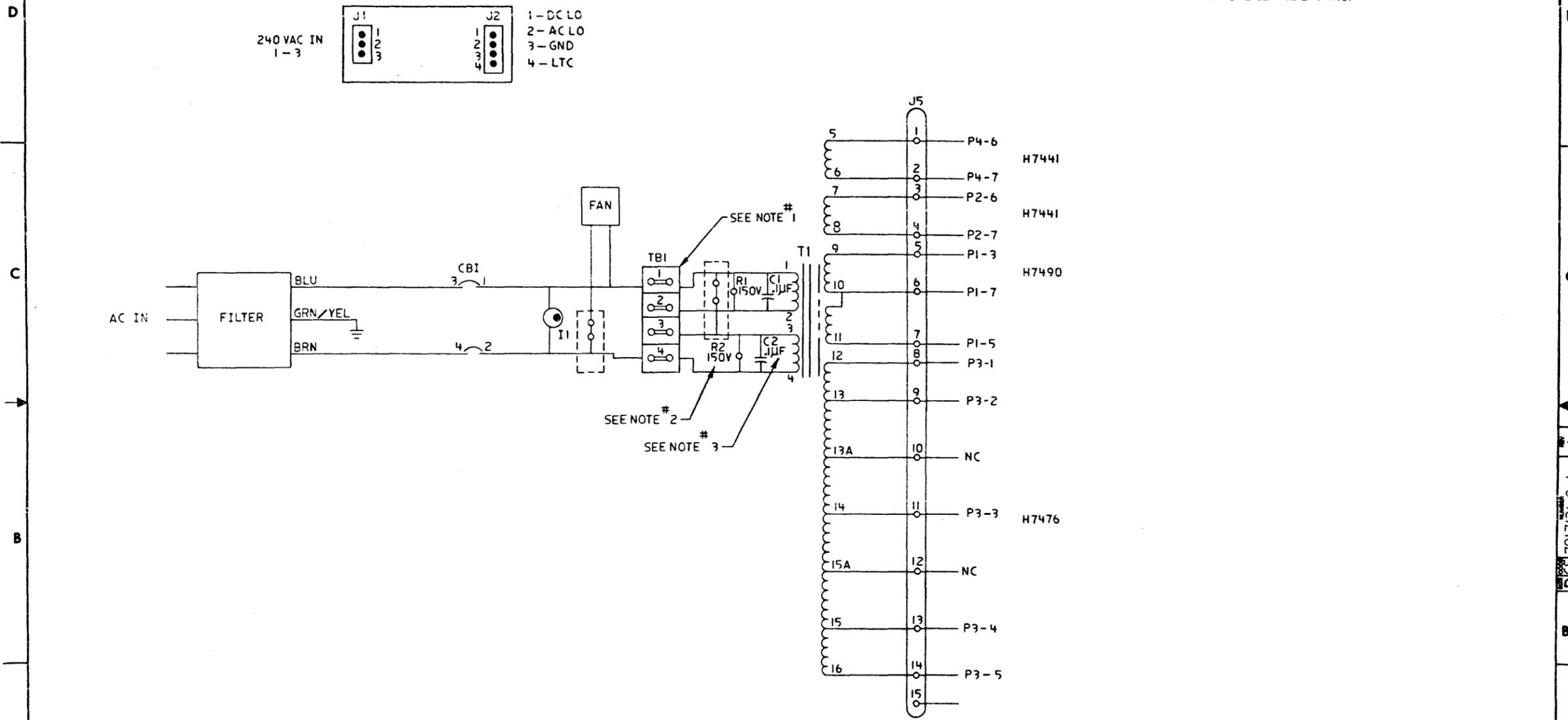
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1-0-217121-0-1



240 VAC IN
1-3

- NOTES:
1. JUMPER ON 2-3 ONLY.
 2. R1 & R2 ARE 150V VARISTORS.
 3. C1 & C2 ARE 270 VAC.



REVISION HISTORY	REV.	INITIAL
DATE		

DESIGNED BY: John Flynn	DATE: 18 MAR 80	TITLE: digital
CHECKED BY: J.H. Kopp	DATE: 23 APR 80	
DESIGNED BY: J. Salafia	DATE: 29 MAR 80	TM 78 CIRCUIT SCHEMATIC
CHECKED BY: J. Salafia	DATE: 29 MAR 80	
DESIGNED BY: Peter Rabin	DATE: 4-23-80	DOCUMENT NUMBER:
		DCS 7017121-0-1

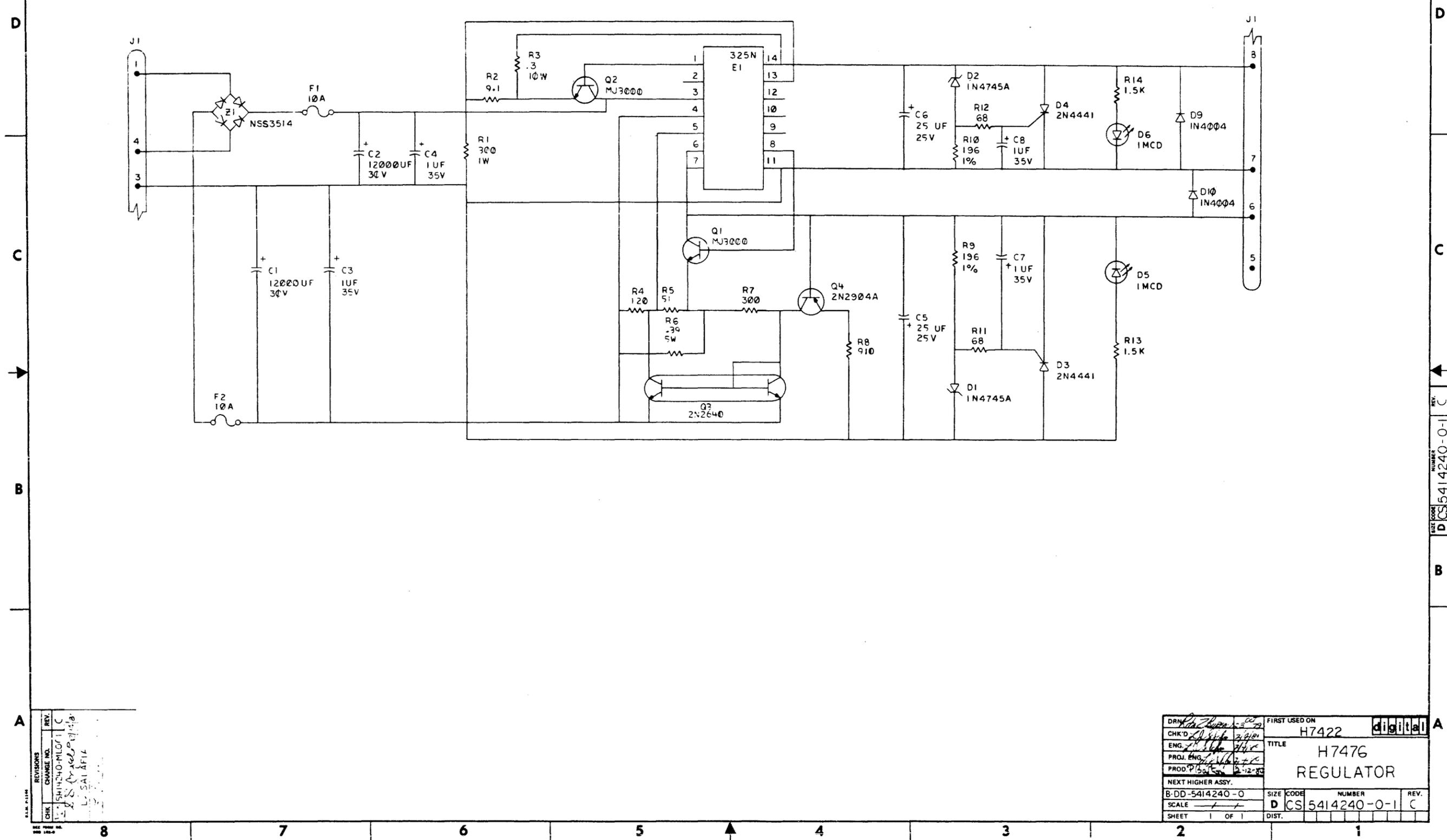
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION	
					00	01
1	1	E-UA-H7422-0-0	H7422-AA	300W 120V 5X9" SUPPLY, AC LO, DC LO	1	-
2	2	E-IA-7016675-0-0	7016675-00	HARNESS POWER	1	1
3	3	C-IA-7017192-0-0	7017192-00	CABLE ASSY. AC-DC-10 (INPUT)	1	-
4	4	D-AD-5414192-0-0	5414192-00	AC 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 X5/16AF	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		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN: D. DIPERRI <i>DD</i>	DATE: 21-SEP-79
	INITIAL	A	SECTION. VARIATION INDEX	CHK'D: F. H. KEYES JR <i>FK</i>	DATE: 26-SEP-79
			[A] 00,01	DES.ENG.: L. SALAFIA <i>LS</i>	DATE: 25-JAN-80
			[B]	RESP.ENG.: L. SALAFIA <i>LS</i>	DATE: 25-JAN-80
			[C]	MFG.ENG.: PETER BARTON <i>P.B.</i>	DATE: 25-JAN-80
			[D]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:
			[E]	E-UA-7017121-0-0	#B-DD-7017121-0
			[F]		FILE NAME: Z0943A.PLS
					EDIT #: 18

TITLE: TM78 POWER SUPPLY
 PARTS LIST
 DOCUMENT NUMBER
 SIZE: K PL NUMBER: 7017121-0-DBP REV: A

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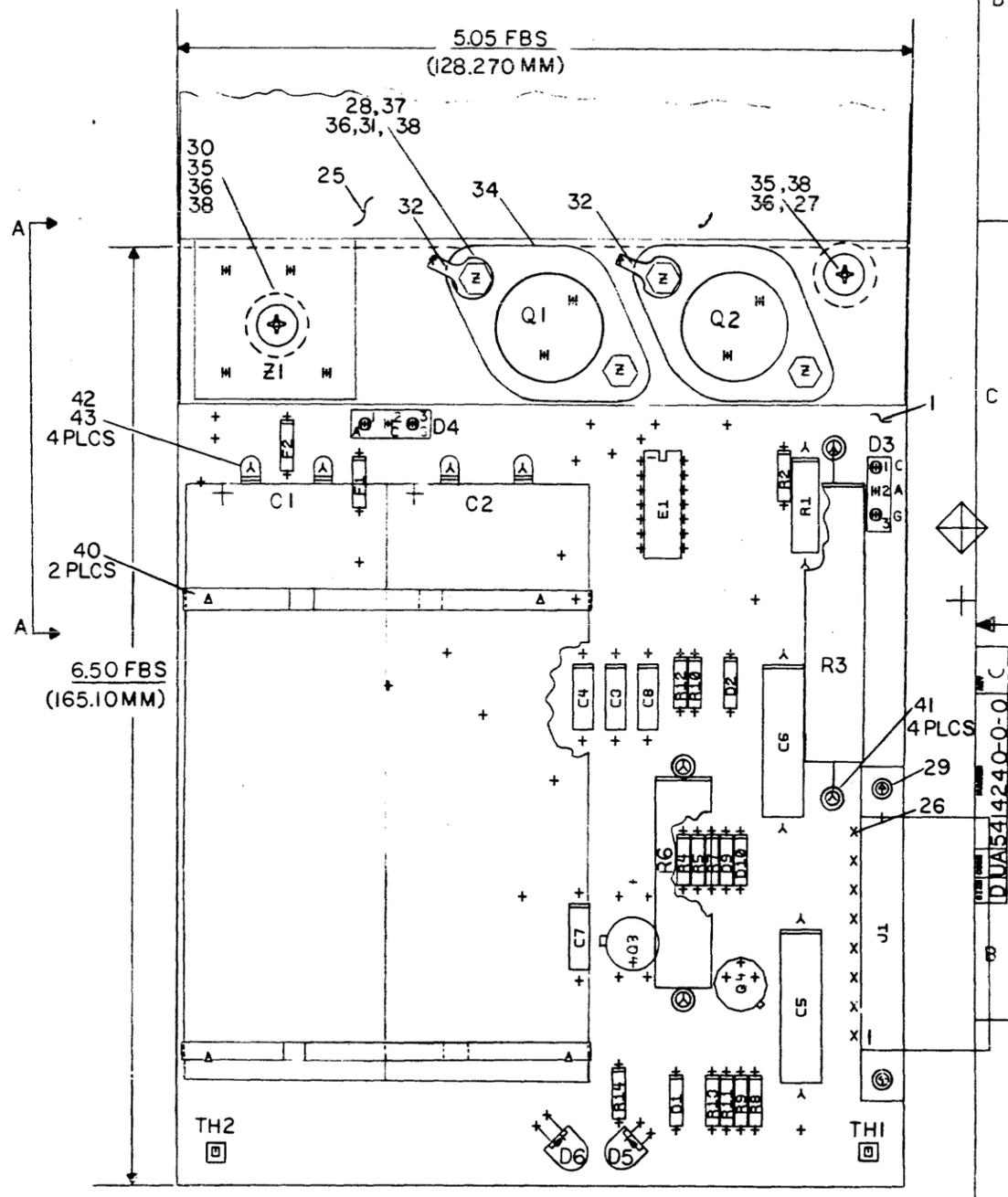
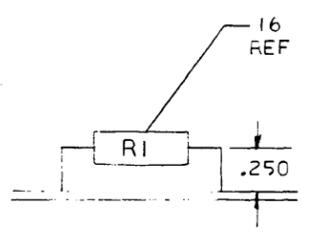
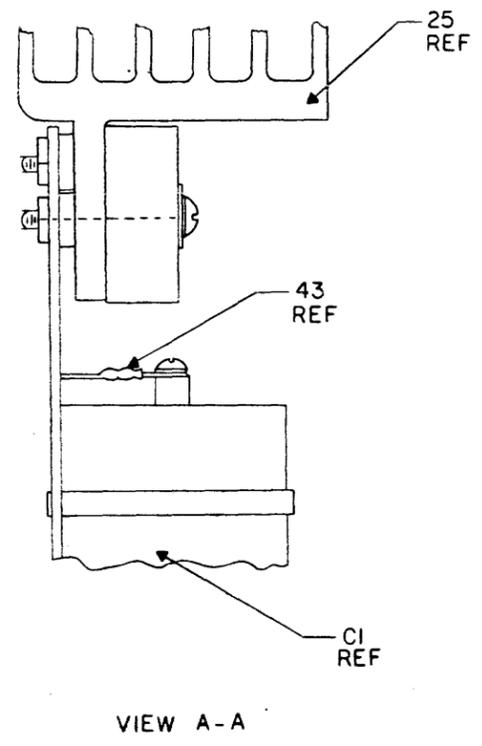


REV.	CHANGE NO.	DATE	BY	CHK
1	1	12/10/68	SAI AFIL	

DRN	2/2/69	FIRST USED ON	H7422	digital
CHK'D	2/2/69	TITLE	H7476 REGULATOR	
ENG.	2/2/69	SCALE		
PROJ. ENG.	2/2/69	SHEET	1	OF 1
PROD.	2/2/69	SIZE CODE	D	CS 5414240-0-1
NEXT HIGHER ASSY.		NUMBER		
B-DD-5414240-0		REV.		C

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COMPONENT SIDE VIEW



NOTES:

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

CHK	CHANGE NO	REV
A	5414240	C
B	MLOOI	
C	2/12/80	
L	SALAFIA	

ETCH REV.	C
PC DATA BASE	CL

SIGNATURES	DATE	digital		
DRN. <i>Vinny Bouchard</i>	1-15-80			
CHK'D.	1-15-80	TITLE H7476 REGULATOR		
RECH. ENG. <i>Z. J. Salafia</i>	2-4-80			
PROJ. ENG. <i>Z. J. Salafia</i>	2-4-80			
PROD. <i>Z. J. Salafia</i>	2-12-80			
SCALE 2/1		SIZE CODE	NUMBER	REV
SHT. 1 OF 1		D	UA 5414240-0-0	C
NEXT HIGHER REV. B-DD-5414240-0				

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	D-MD-5014239-0-0	5014239-00	DRILL & ETCH BRD	1	
		1009968-00	12,000 MFD 30V +75-10% AL EL	1	C1,C2
		1031776-00	1 MFD 35V 10% S.TANT	1	C3,C4,C7,C8
		1000075-00	25 MFD 25V +75-10% AL EL	1	C5,C6
		1113117-00	1N 4745A VZ=16.0 5% 1W A	1	D1,D2
		1505867-00	2N 4441 SCR@ 50V & 8A	1	D3,D4
		1110324-00	LED 1MCD@10MA PIV=3	1	D5,D6
		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	1	D9,D10
		1210929-01	FUSE, SUB-MINI, 10.000A, 125V, A	1	F1,F2
		1110714-00	NSS3514 FWR@400 I=20A (TRW)	1	Z1
		1511349-00	TIP 640 (OR MJ3000) NPN DARLINGT	2	Q1,Q2
		1517856-00	2N 2640 NPN 600MW SI	1	Q3
		1501913-00	2N 2904A PNP 600MW SI 60 40 Y	1	Q4
		1913218-00	325 VOLT REG FIX +/-15V	1	E1
		1317918-00	9.10 .25 W 5.0 % CC	1	R2
		1300292-00	300.0 1.0 W 5.0 % CC	1	R1
		1309107-00	.30 10.0 W 5.0 % WW	1	R3
		1301425-00	300.0 .25 W 5.0 % CC	1	R7
		1312928-00	51.0 .25 W 5.0 % CC	1	R5
		1305374-00	910.0 .25 W 5.0 % CC	1	R8
		1302956-00	196.0 .25 W 1.0 % RN550-F10	1	R9,R10
		1300219-00	68.0 .25 W 5.0 % CC	2	R11,R12
		1300391-00	1.50 K .25 W 5.0 % CC	2	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	8	
		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	1	
		9007793-01	SCREW,PAN,PHIL 6-32X 9/16 SS	4	
		9006732-00	EYELET,ROLL FLANGE .12100X .219	2	
		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			DOCUMENT NUMBER	
			(B)			SIZE CODE NUMBER REV	
			(C)			K PL 5414240-0-DBP C	
			(D)			ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: FILE NAME: EDIT #	
			(E)			D-UA-5414240-0-0 #B-DD-5414240-0 Z0782C.PLS 6	
			(F)				
			(G)				
			(H)				
			(I)				
			(J)				
			(K)				
			(L)				
			(M)				
			(N)				

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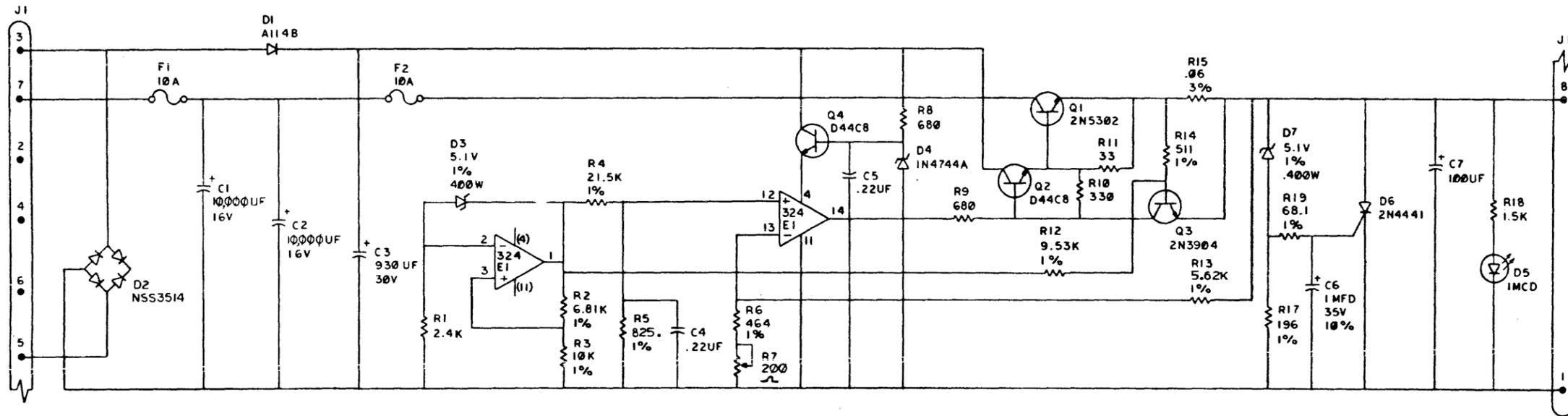
PARTS LIST

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
31	31		9008185-00	NUT,KEP 6-32X 1/4 AF	4	
32	32		9009676-00	TERM,SOLDER BARRIER STR	2	
33	33		9009993-00	WASHER,INSULAT'G,CLEAR MICA	2	
34	34		1214789-00	INSERT,THREADED 6-32 BRASS,ELEC	2	
35	35		9006656-00	WASHER,FLAT .312 O.D. X .156 I	6	
36	36		9006707-00	WASHER,NYLON,FLAT #6 .312 OD	4	
37	37		9007801-00	WASHER,LOCK,S.S.#6	6	
38	38		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	4	
39	39		9009798-00	SPACER,CERAMIC .186 ODX.078 ID	4	
40	40		9007930-00	TERM,RING #10STUD CRIMP 16-2	4	
41	41		9107560-03	WIRE,BUSS,18AWG	A/R	
42	42		1317859-00	.39 5.0 W 5.0 % WW	1	R6
43	43		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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DRN	<i>Baron</i>	FIRST USED ON	<i>H7490</i>
CHK'D	<i>a Baron</i>	TITLE	+5V REGULATOR
ENGR	<i>a Baron</i>	PROJ. ENGR	<i>a Baron</i>
PROD. ENGR	<i>a Baron</i>	PROD. ENGR	<i>a Baron</i>
NEXT HIGHER ASSY.		SIZE CODE	D
B-DD-5413716-0		NUMBER	5413716-0-1
SCALE		REV.	C
SHEET		DIST.	

REV.	C
CHANGE NO.	5413716
DATE	1/10/78
BY	<i>ALFRED BARON</i>
APPROVED	<i>ALFRED BARON</i>

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
					00	
1	1	D-MD-5013715-0-0	5013715-00	DRILL & EICH 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	4M5-1A71 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			DIGITAL		
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D:	DANIEL	DATE:	08-JAN-80	TITLE	PARTS LIST					
---	INITIAL	B	SECTION VARIATION INDEX	DES.ENG:	DANIEL PRINCIPE	DATE:	23-FEB-79							
AB	5413716-ML001	C	[A] 00	RESP.ENG.:	DANIEL PRINCIPE	DATE:	23-FEB-79	H7490						
			[B]				DOCUMENT NUMBER							
			[C]											
			[D]											
			[E]											
			[F]											
			[G]											
			[H]											
			[I]											
			[J]											
			[K]	MFG.ENG.:	PETER BARTON	DATE:	08-JAN-80	K PL	5413716-0-DBP	C				
			[L]											
			[M]											
			[N]											
				ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:	EDIT #			
				D-UA-5413716-0-0			B-DD-5413716-0-0			Z0230C.PLS	19			

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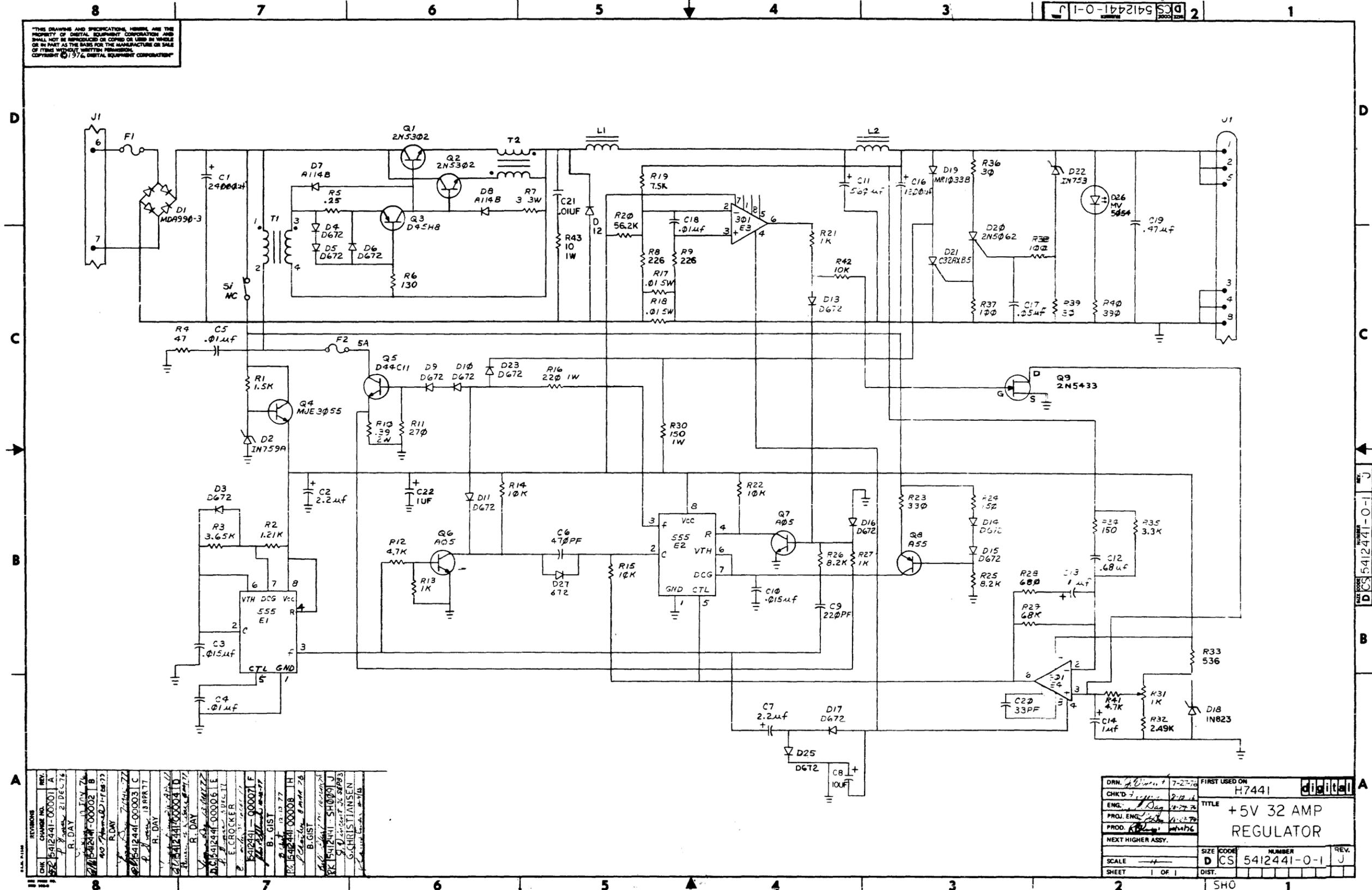
PARTS LIST

SHEET A2 OF A2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	32	1912107-00	324 OP 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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REV.	CHG.	BY	DATE
1	5412441-00001	A	7-27-76
2	5412441-00002	B	8-10-76
3	5412441-00003	C	8-10-76
4	5412441-00004	D	8-10-76
5	5412441-00005	E	8-10-76
6	5412441-00006	F	8-10-76
7	5412441-00007	G	8-10-76
8	5412441-00008	H	8-10-76
9	5412441-00009	I	8-10-76
10	5412441-00010	J	8-10-76

DRN. <i>[Signature]</i>	7-27-76	FIRST USED ON	H7441
CHK'D <i>[Signature]</i>	8-10-76	TITLE	+5V 32 AMP REGULATOR
ENG. <i>[Signature]</i>	8-10-76	SIZE	D
PROJ. ENG. <i>[Signature]</i>	8-10-76	CODE	5412441-0-1
PROD. <i>[Signature]</i>	8-10-76	NUMBER	1
NEXT HIGHER ASSY.		REV.	J
SCALE		DIST.	
SHEET	1 OF 1		

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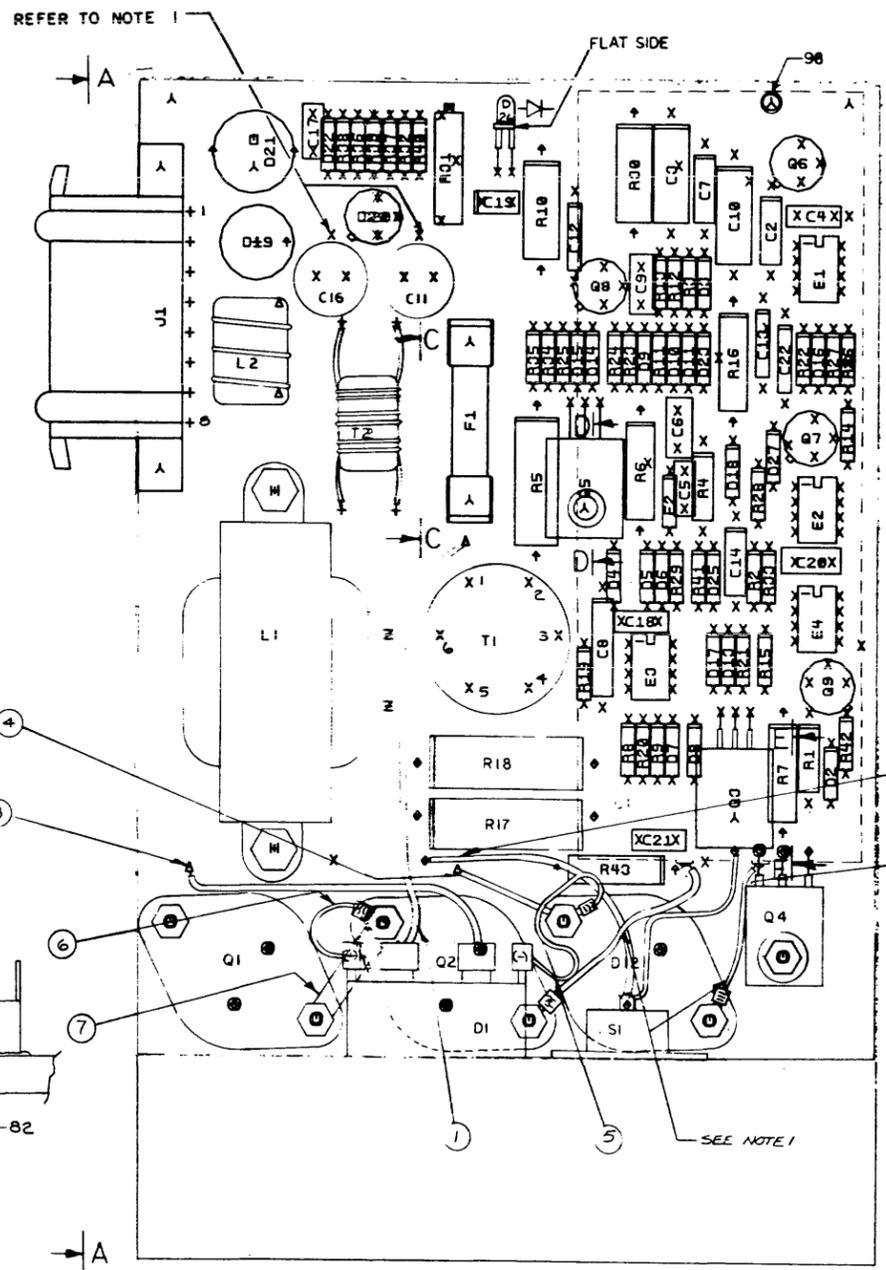
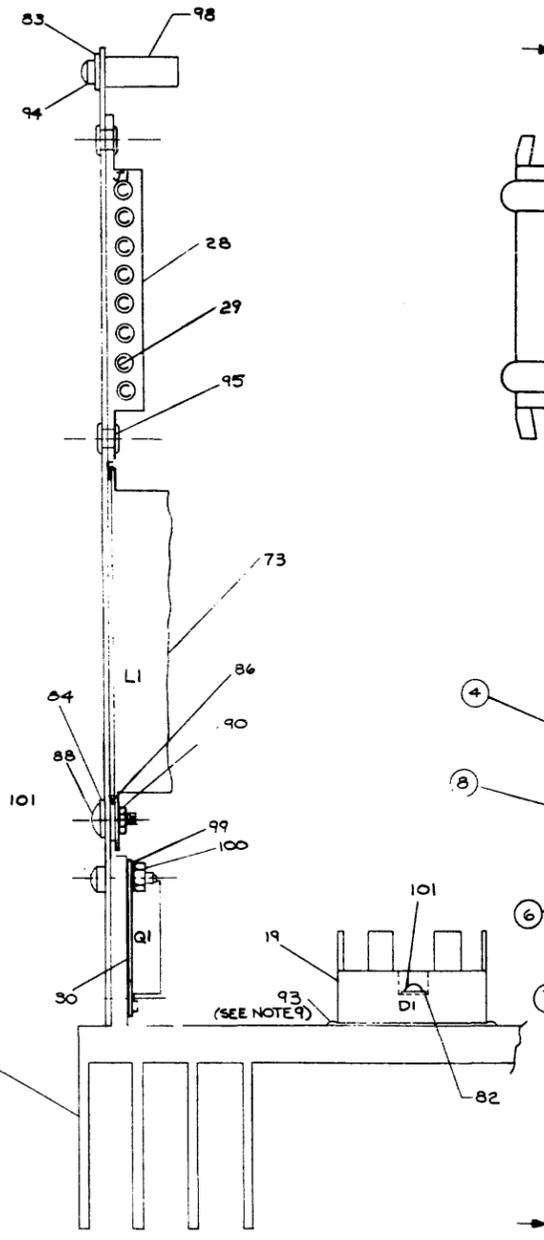
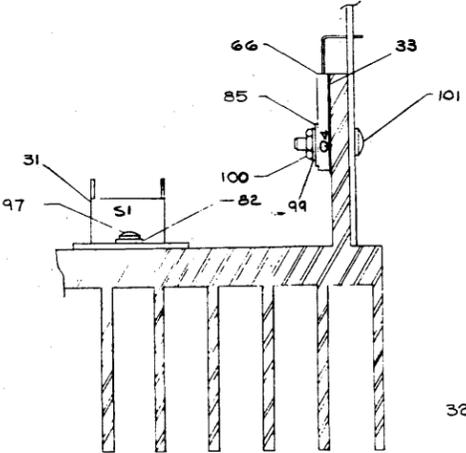
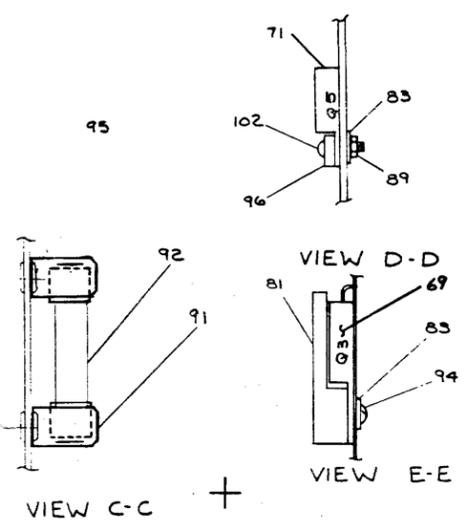
DUA 5412441-0-0 K 2 1

COMPONENT SIDE VIEW

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 #1214074-09 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 #1214074-09 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 #20) IS SOLDERED AT FEEDTHROUGH SHOWN AND MOUNTED UNDER RING LUG OF D12.
 5. WIRE RUN ③ 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 BINCH-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
1	H	1-11-77	R. DAY	
2	J	1-11-77	R. DAY	
3	K	1-11-77	R. DAY	

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

SIGNATURES	DATE	digital
DRN. Buckle	5-20-77	
CHK'D. [Signature]	3-25-77	TITLE +5V, 32 AMP
ENG. [Signature]	1-11-77	REGULATOR
PROJ. ENG. [Signature]	1-11-77	SCALE 2/1
PROD. [Signature]	1-11-77	SHT. 1 OF 3
		NEXT HIGHER ASSY. B-DD-5412441-0
		SIZE CODE NUMBER REV
		D UA 5412441-0 K

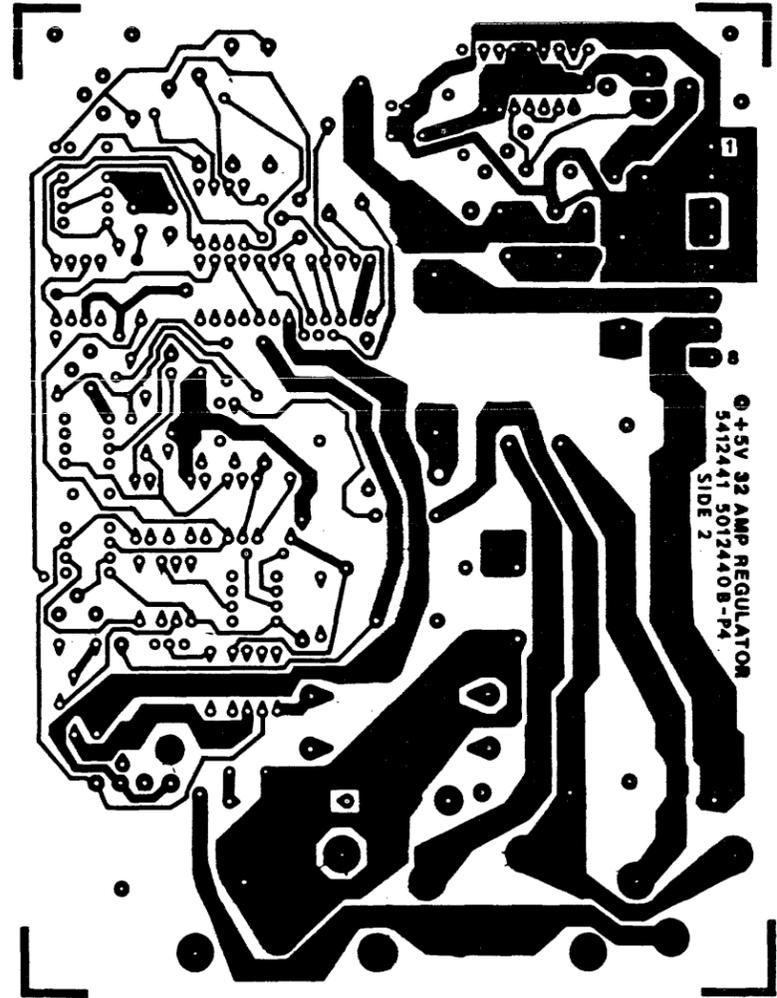
DUA 5412441-0-0 K

8 7 6 5 4 3 2 1

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DUA 5412441-0-0 K

D
C
B
A



D
C
B
A

DUA 5412441-0-0 K

REVISIONS		
CHK	CHANGE NO.	REV.

8	7	6	5	4	3	2	1		
TITLE: +5V 32AMP REGULATOR							SCALE: 2/1	SHEET 3 OF 3	SHO
DUA 5412441-0-0 K									

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			D I G I T A L		
ENG:	ECO NUMBER	REV	SECTION A OF A	DRN:	D.SIREEN	DATE:	10-MAR-78	
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	
			[C]					DOCUMENT NUMBER
			[D]	RESP.ENG.:	R.DAY	DATE:	10-MAR-78	
			[E]					SIZE CODE NUMBER REV
			[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: Z7929K.PLS EDIT # 8
			[J]					
			[K]					
			[L]					
			[M]					
			[N]					

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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
31	31		1212787-00	THERMOSTAT, 0.0212, C6182, 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 W 10.0 * 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 W 10.0 * 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 W 10.0 * 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	CHOKE, 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

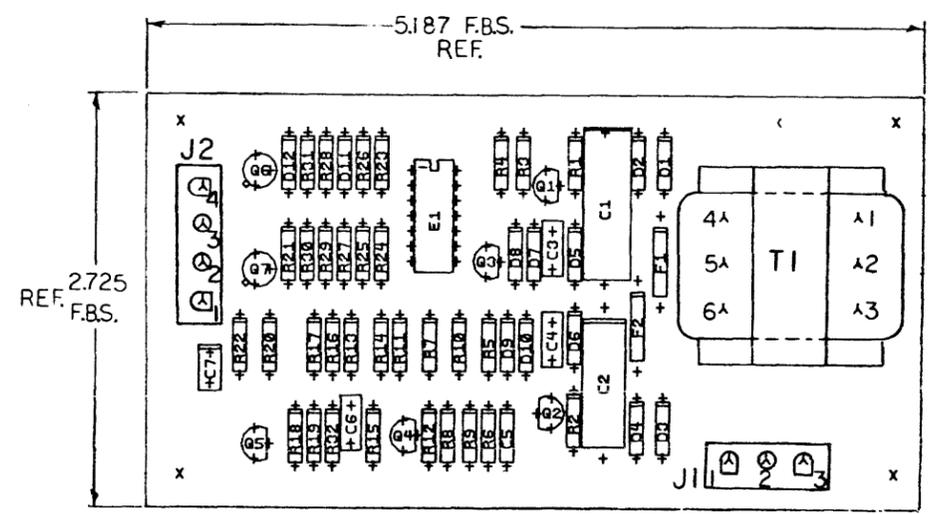
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
79	79	7013274-00	JUMPER CAP TRAWS	1	
80	80	7013274-01	JUMPER CAP TRAWS	1	
81	81	7414765-00	HEATSINK	1	
82	82	9006633-00	WASHER, LOCK INTERNAL STEEL	3	
83	83	9008172-00	WASHER, FLAT SST	3	
84	84	9006660-00	WASHER, 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

8 7 6 5 4 3 2 1

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COMPONENT SIDE VIEW



NOTES:

STEP E	↑ Y AXIS	STEP 2	TIMES
REPEAT	→ X AXIS	STEP	TIMES

CHANGE NO	REV	DATE
54210	B	10-22-73
ALFARIN		
REF. 5.1. 9-28-70		

ETCH REV. B

SIGNATURES		DATE	digital
DRN. <i>Andy Ouellet</i>		10-22-73	
CHK'D. <i>[Signature]</i>		10-24-73	TITLE
MECH. ENG. <i>G. Bason</i>		12-6-73	
PROJ. ENG. <i>G. Bason</i>		12-6-73	AC/DC LOW BRD.
PROD. <i>Peter Bartel / S. Bann</i>		12/1/73	
SCALE 2/1			SIZE CODE
SHT. OF			NUMBER
NEXT HIGHER REV. B-DD-5414192-0			REV

DUA5414192-0-0 B

1 MS#180643

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5014191-0-0	5014191-00	DRILL + ETCH BOARD	1		
2	2		1002433-00	22 MFD 35V 20% S.TANT	1		C2
3	3		1010978-36	.1 MFD 50V 10% CER	3		C3, C4, C6
4	4		1013466-08	680.0 MMF 50V 10% X7R CER	1		C5
5	5		1014905-00	1 MFD 50V 10%	1		C7
6	6		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	6		D1-D4, D9, D10
7	7		1114377-00	1N 4740A VZ= 10.0 5% 1W	2		D5, D6
8	8		1100114-00	D 664 QS\75PCB PIV= 25V SP	3		D7, D11, D12
9	9		1100122-00	1N 748A VZ= 3.9 5%	1		D8
10	10		1210929-04	FUSE, SUB-MINI .250A, 125V A	2		F1, F2
11	11		1212297-01	MATE-N-LOK 4PIN UNIV HEADER	1		J2
12	12		1212297-03	MATE-N-LOK 3PIN UNIV HEADER	1		J1
13	13		1510705-00	XA 05 NPN 500MW SI 60 50 P	4		Q1, Q3-Q5
14	14		1510706-00	XA 55 PNP 500MW SI 60 50 P	1		Q2
15	15		1511686-00	DEC5433 FET N 350MW 10 25 1A	2		Q6, Q7
16	16		1612342-00	XFMR P=AB S=48CT	1		T1
17	17		1912108-00	339 VOLT CMPRTR, QUAD	1		E1
18	18		1300417-00	2.20 K .25 W 5.0 % CC	2		R1, R2
19	19		1301874-00	5.60 K .25 W 5.0 % CC	1		R3
20	20		1301890-00	560.0 .25 W 5.0 % CC	2		R4, R32
21	21		1300479-00	10.0 K .25 W 5.0 % CC	4		R21, R26, R27, R31
22	22		1309680-00	2.70 M .25 W 5.0 % CC	1		R19
23	23		1317183-04	412.0 K .25 W 1.0 % RN55D-F10	1		R5
24	24		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1		R6
25	25		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1		R7
26	26		1311320-00	90.90 K .25 W 1.0 % RN55D-F10	1		R8
27	27		1305323-00	51.0 K .25 W 1.0 % RN55D-F10	1		R9
28	28		1304856-00	4.64 K .25 W 1.0 % RN55D-F10	2		R10, R16
29	29		1317183-01	7.87 K .25 W 1.0 % RN55D-F10	2		R11, R17
30	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: ELO NUMBER	REV	SECTION A OF A		CHK'D: COSTA L.	DATE: 07-DEC-79	TITLE PARTS LIST	
AB 5414192-MLOO1	B	SECTION VARIATION INDEX		AC/DC-LO CIRCUITRY			
		[A]	00	DOCUMENT NUMBER			
		[B]		SIZE CODE NUMBER REV			
		[C]		MFG.ENG.: PETER BAFTON DATE: 07-DEC-79 K PL 5414192-0-DBP B			
		[D]		ASSEMBLY NUMBER: TOP DOCUMENT NUMBER: FILE NAME: EDIT #			
		[E]		D-UA-5414192-0-0 B-DD-5414192-0-0 Z0577B.PLS 13			
		[F]					
		[G]					
		[H]					
		[I]					
		[J]					
		[K]					
		[L]					
		[M]					
		[N]					

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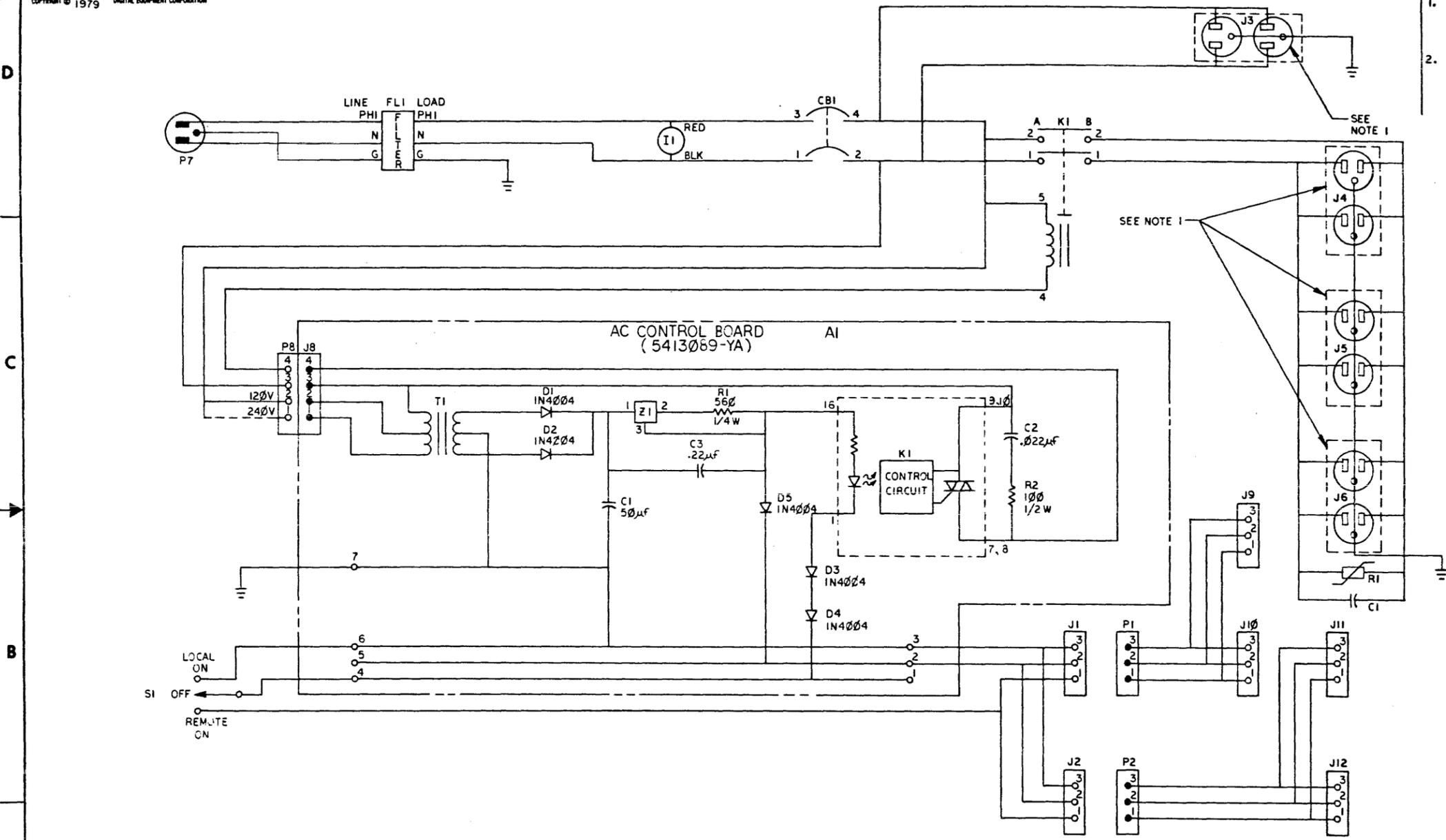
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
31	31		1317183-03	115.0 K .25 W 1.0 % RN55D-F10	1		R13
32	32		1305424-00	232.0 K .25 W 1.0 % RN55D-F10	2		R14,R15
33	33		1309414-00	9.76 K .25 W 1.0 % RN55D-F10	1		R23
34	34		1313841-00	23.20 K .25 W 1.0 % 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.

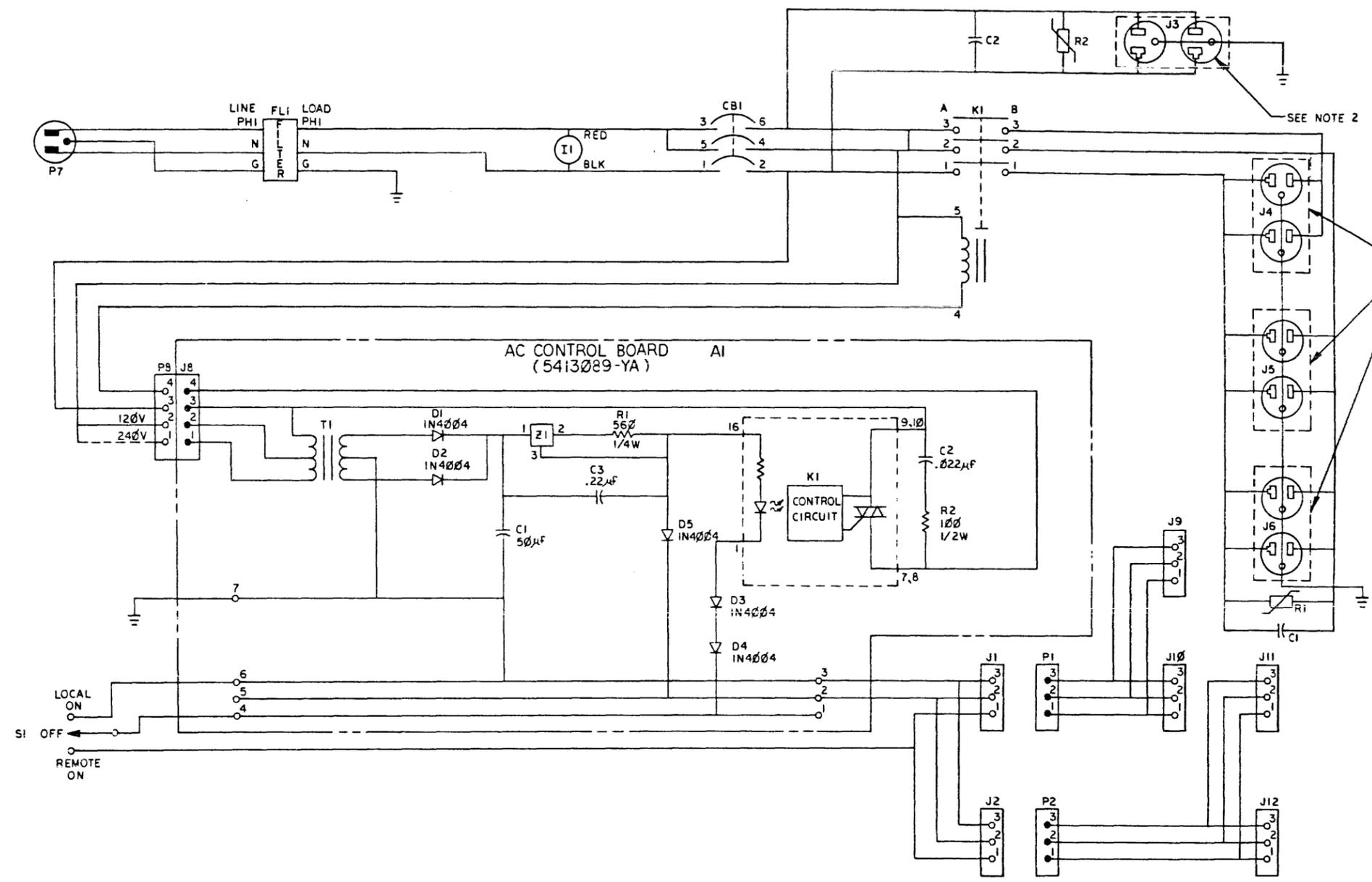


FOR VARIATIONS 872-A, B & C ONLY

REV.	A
CHANGE NO.	B
INITIAL	ML
DATE	2-7-80
DESIGNED BY	TOM CRK
CHECKED BY	Tom Crk
DATE	2-19-80

DRN	2/10/79	FIRST USED ON	872	digital
CHK'D		TITLE	POWER CONTROL (872)	
ENG.		PROJ. ENG.		
PROD.		NEXT HIGHER ASSY.		
SCALE	NONE	SIZE CODE	D CS	NUMBER
SHEET	1 OF 2	DIST.		REV.
				B

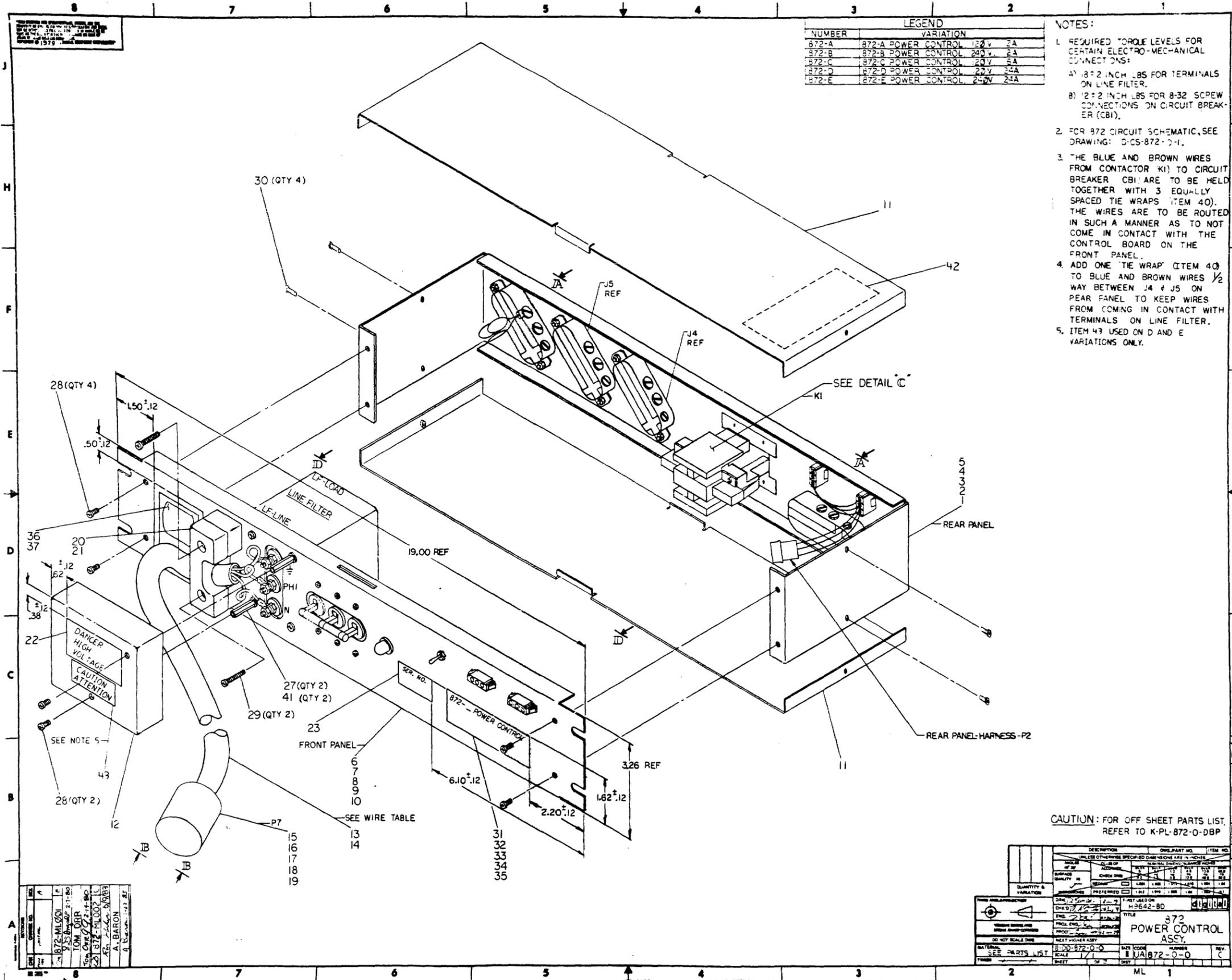
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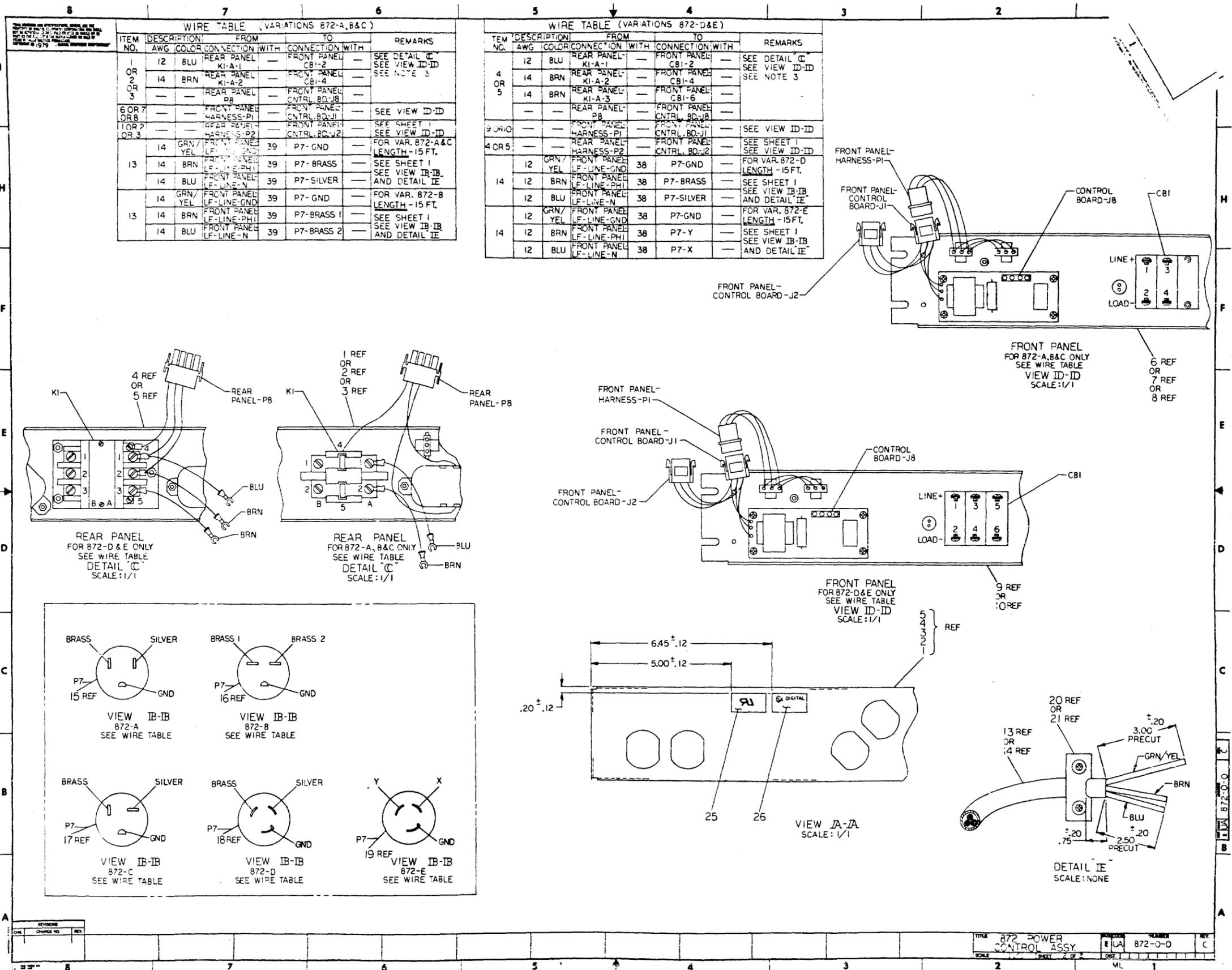


FOR VARIATIONS 872-D & E ONLY

REVISIONS		
CHK	CHANGE NO.	REV.

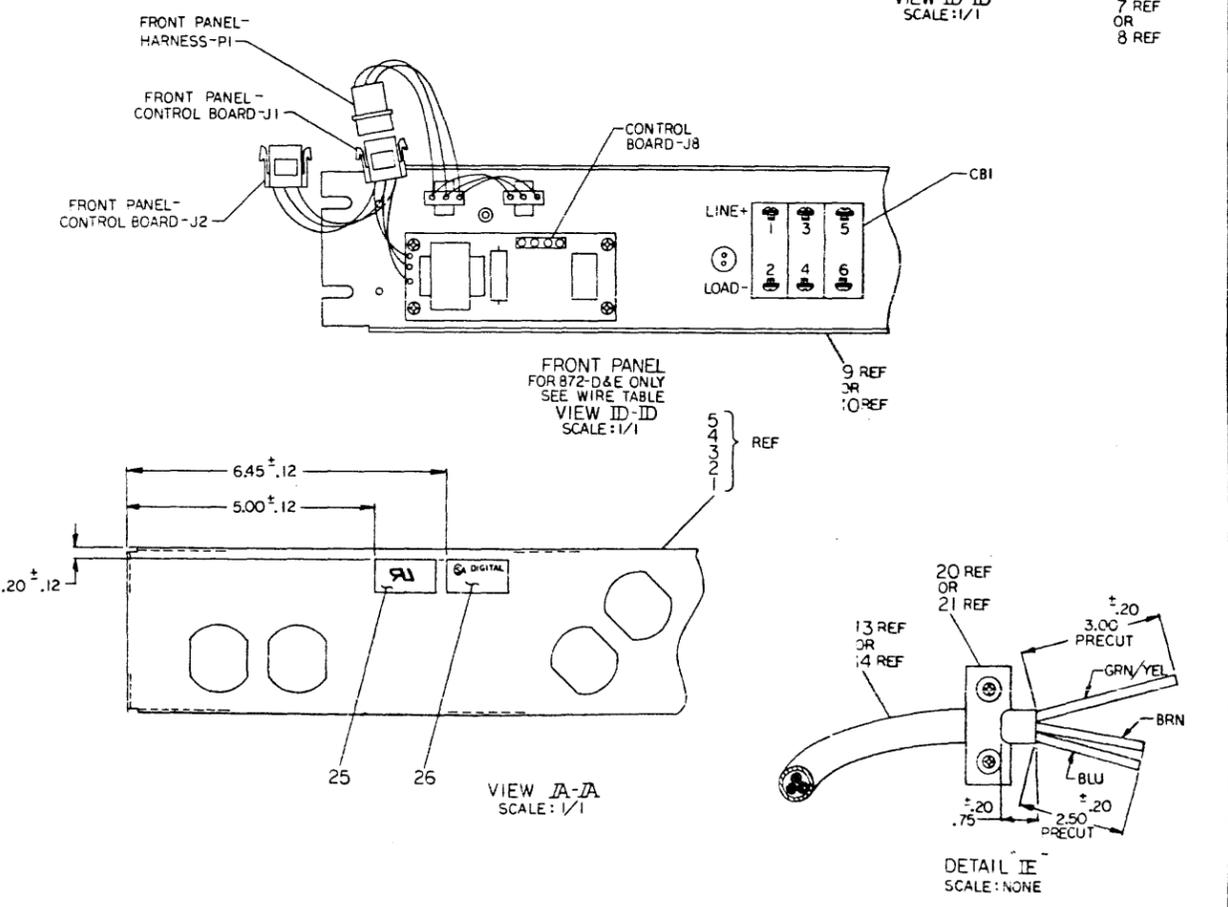
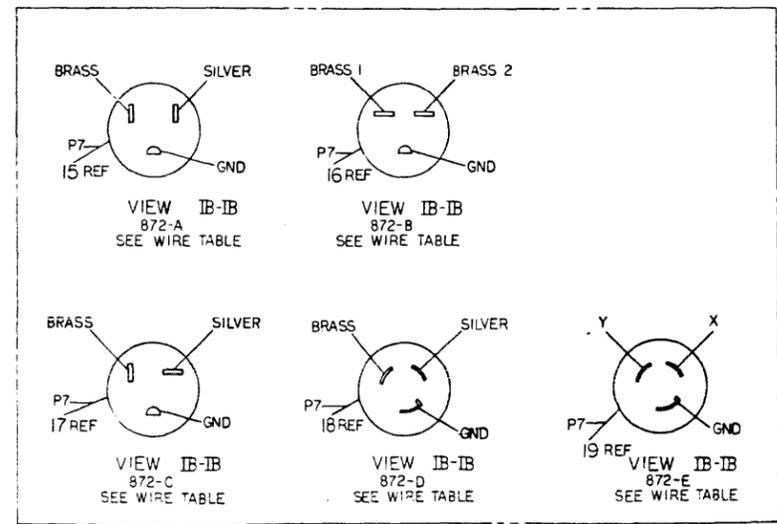
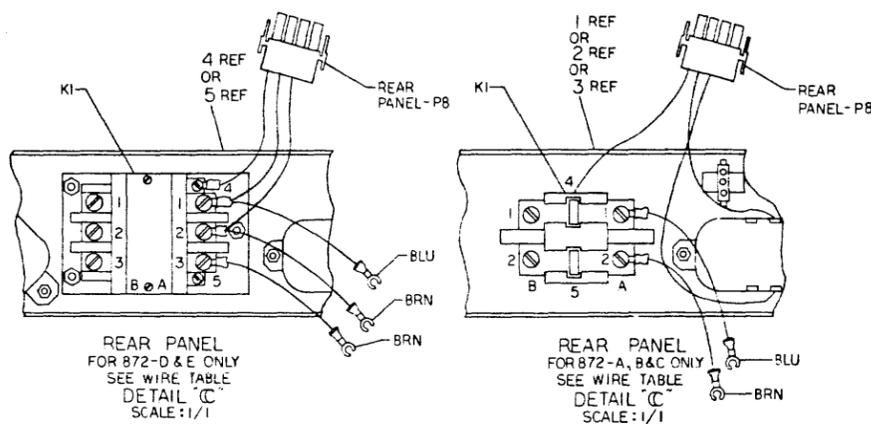
TITLE	POWER CONTROL (872)	SIZE CODE	D/CS	NUMBER	872-0-1	REV.	B
SCALE	NONE	SHEET	2 OF 2	DIST.			





WIRE TABLE (VARIATIONS 872-A, B & C)					
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS	
1 OR 2 OR 3	12 BLU REAR PANEL KI-A-1	FRONT PANEL CB1-2	SEE DETAIL C SEE VIEW ID-ID SEE NOTE 3		
	14 BRN REAR PANEL KI-A-2	FRONT PANEL CB1-4			
	FRONT PANEL PB	FRONT PANEL CNTRL. BD-J8			
6 OR 7 OR 8	FRONT PANEL HARNESS-PI	FRONT PANEL CNTRL. BD-J1	SEE VIEW ID-ID		
10 OR 11 OR 12	FRONT PANEL HARNESS-P2	FRONT PANEL CNTRL. BD-J2	SEE VIEW ID-ID		
13	14 GRN/YEL FRONT PANEL LF-LINE-GND	39 P7-GND	FOR VAR. 872-A & C LENGTH - 15 FT.		
	14 BRN FRONT PANEL LF-LINE-PH1	39 P7-BRASS	SEE SHEET I SEE VIEW IB-IB AND DETAIL IE		
	14 BLU FRONT PANEL LF-LINE-N	39 P7-SILVER			
13	14 GRN/YEL FRONT PANEL LF-LINE-GND	39 P7-GND	FOR VAR. 872-B LENGTH - 15 FT.		
	14 BRN FRONT PANEL LF-LINE-PH1	39 P7-BRASS 1	SEE SHEET I SEE VIEW IB-IB AND DETAIL IE		
	14 BLU FRONT PANEL LF-LINE-N	39 P7-BRASS 2			

WIRE TABLE (VARIATIONS 872-D & E)					
ITEM NO.	DESCRIPTION	FROM	TO	REMARKS	
4 OR 5	12 BLU REAR PANEL KI-A-1	FRONT PANEL CB1-2	SEE DETAIL C SEE VIEW ID-ID SEE NOTE 3		
	14 BRN REAR PANEL KI-A-2	FRONT PANEL CB1-4			
	FRONT PANEL PB	FRONT PANEL CNTRL. BD-J8			
9 OR 10	FRONT PANEL HARNESS-PI	FRONT PANEL CNTRL. BD-J1	SEE VIEW ID-ID		
4 OR 5	FRONT PANEL HARNESS-P2	FRONT PANEL CNTRL. BD-J2	SEE VIEW ID-ID		
14	12 GRN/YEL FRONT PANEL LF-LINE-GND	38 P7-GND	FOR VAR. 872-D LENGTH - 15 FT.		
	12 BRN FRONT PANEL LF-LINE-PH1	38 P7-BRASS	SEE SHEET I SEE VIEW IB-IB AND DETAIL IE		
	12 BLU FRONT PANEL LF-LINE-N	38 P7-SILVER			
14	12 GRN/YEL FRONT PANEL LF-LINE-GND	38 P7-GND	FOR VAR. 872-E LENGTH - 15 FT.		
	12 BRN FRONT PANEL LF-LINE-PH1	38 P7-Y	SEE SHEET I SEE VIEW IB-IB AND DETAIL IE		
	12 BLU FRONT PANEL LF-LINE-N	38 P7-X			



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,PCWER 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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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	-	-	-
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

0-0-TEU78-0-0

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CABLE CHART				
CONNECTION				
FROM	REMARKS	TO	REMARKS	WITH
I/O CONNECTOR PANEL (J5)	NOTE 4	PORT "A" IN (J18)	NOTE 4	ITEM #9 (BC06S)
I/O CONNECTOR PANEL (J6)		PORT "B" IN (J20)	DUAL PORT ONLY	ITEM #9 (BC06S)
11/780 CABINET GND STUD		TU78 MASTER GND STUD		ITEM #11 (7412827)
11/780 I/O CONN PANEL		TU78 MASTER POWER CONTROL		ITEM #17 (7008288)
		PORT "A" OUT (J17)	TERMINATOR ASSY FOR TU78 MASTER	ITEM #16 (7009938)
	DUAL PORT ONLY	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)		(7017382)
TM78 LOGIC (J4)		DRIVE #1 MIA (J3)		NOTE 6 & 7
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)			ALWAYS INSTALLED	
I/O CONNECTOR PANEL (J5-C)			DUAL PORT ONLY	
I/O CONNECTOR PANEL (J6-A)	SEE NOTE 1	RH780/M9041	DUAL PORT ONLY	ITEM #8 (BC06R)
I/O CONNECTOR PANEL (J6-B)			DUAL PORT ONLY	
I/O CONNECTOR PANEL (J6-C)			DUAL PORT ONLY	

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.

REV	DATE	ECO NUMBER	REVISION HISTORY

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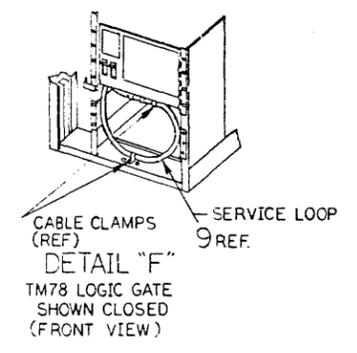
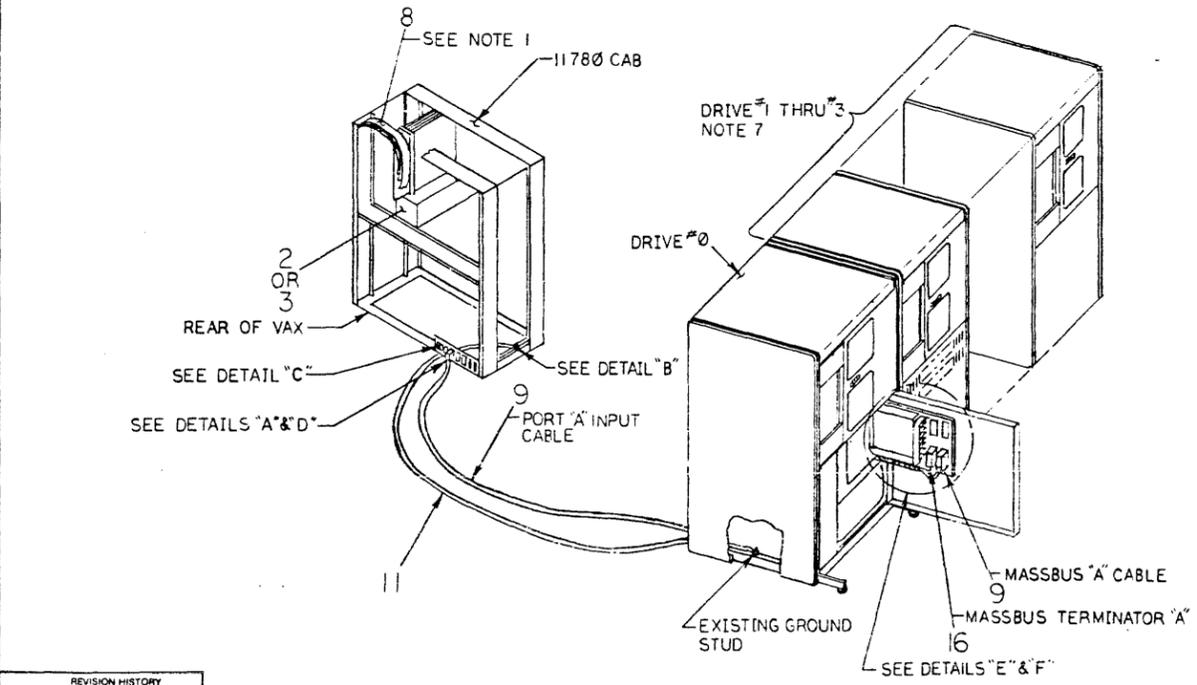
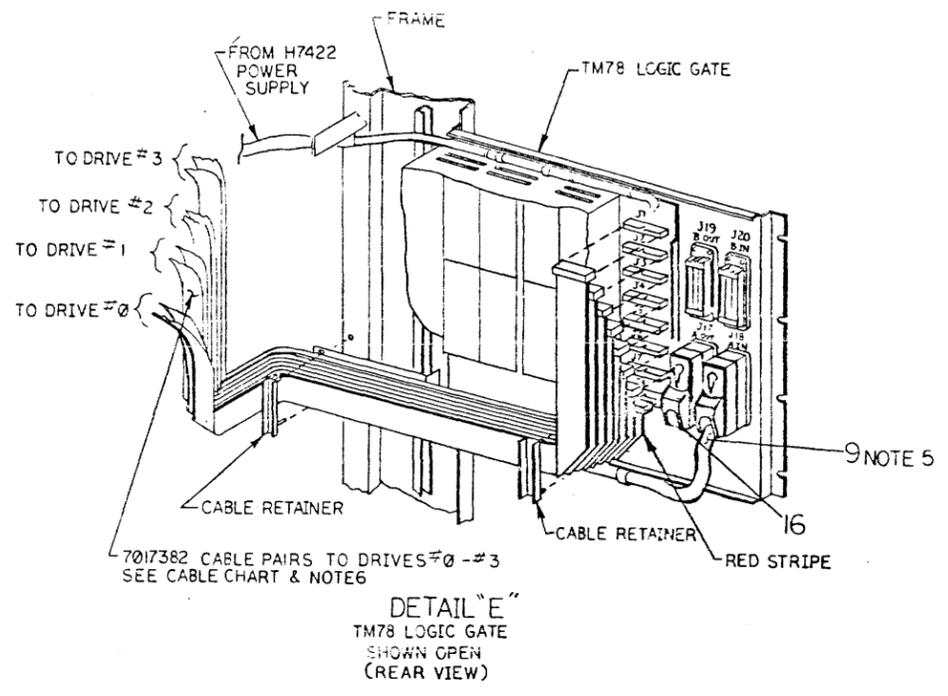
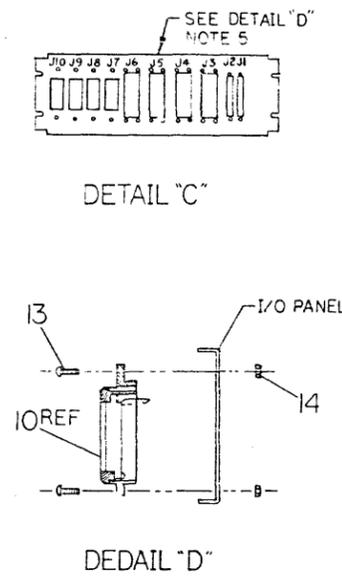
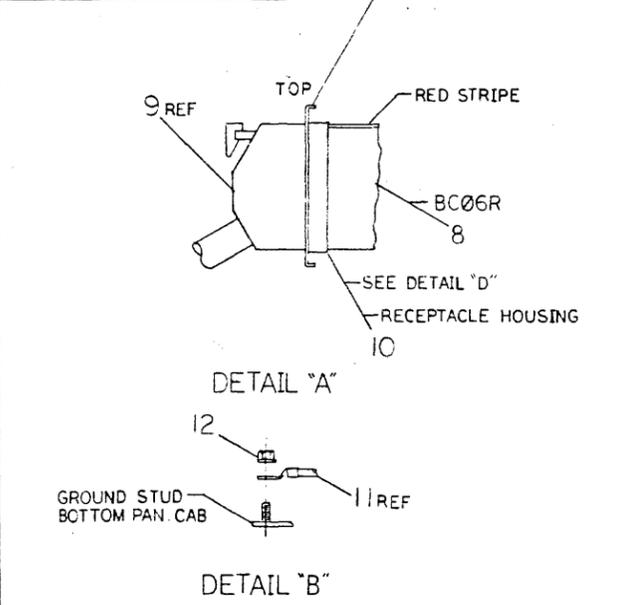
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CAUTION: FOR OFF SHEET PARTS LIST
 SEE K-PL-TEU78-0-DBP

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	SURFACE QUALITY	CHECK ONE	OVER 0 TO 1.2
XX = ± .02			OVER 1.2 TO 4.0
XXX = ± .015			OVER 4.0 TO 12.0
			OVER 12.0 TO 40.0
			OVER 40.0 TO 60.0
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DATE	TITLE
		10/23/80	TEU78 SYSTEM ASSEMBLY
	DO NOT SCALE DRAWING	DATE	DOCUMENT NUMBER
	REMOVE BURRS AND BREAK SHARP CORNERS	16 FEB 81	DUA TEU78-0-0
MATERIAL	SEE PARTS LIST	DATE	SCALE
		12 FEB 81	NONE
FINISH			SHEET 1 OF 4
		B-DD-TEU78-0-0	

REV A
 NUMBER 0-0-TEU78-0-0
 PART NO. 0-0-TEU78-0-0

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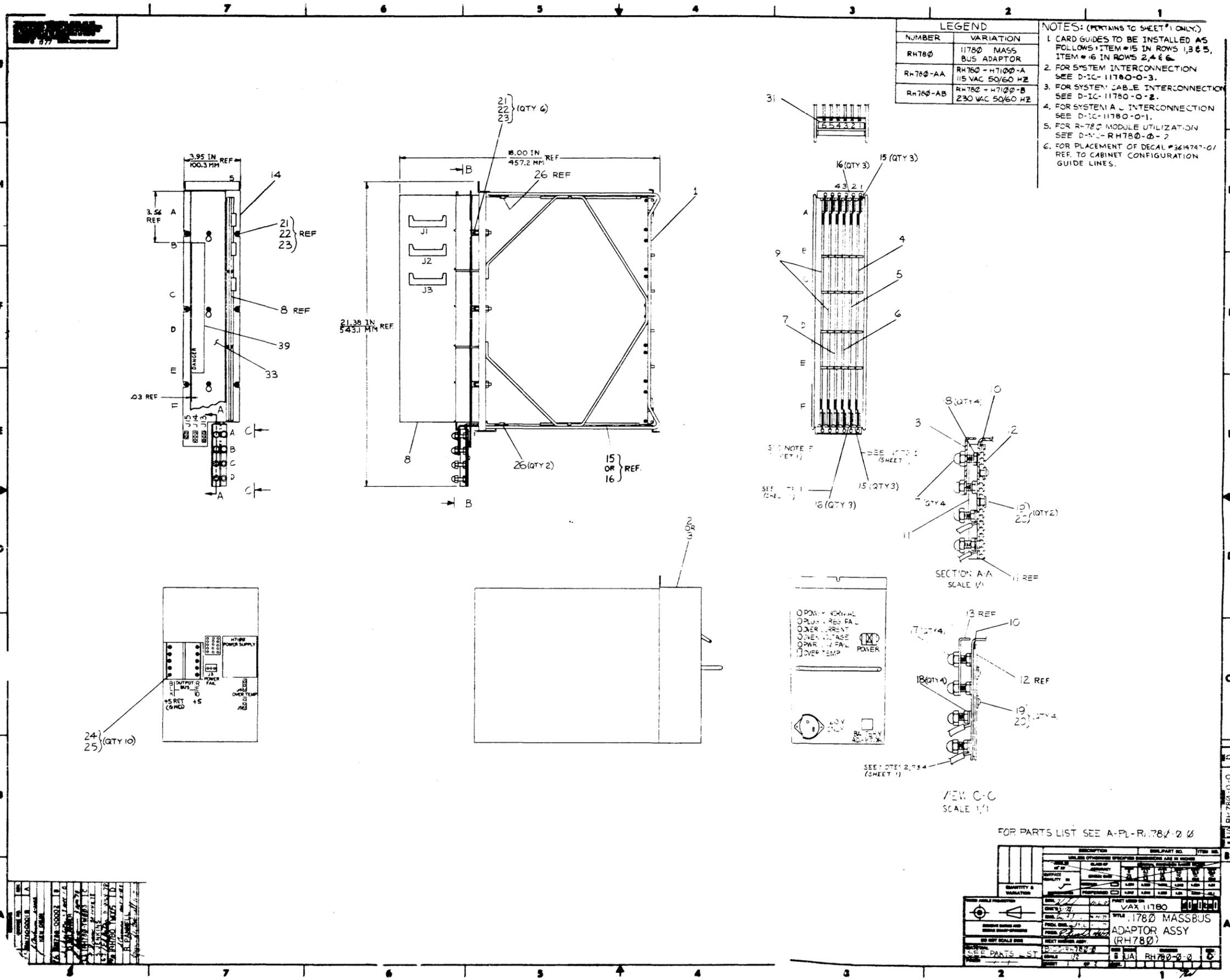
REVISION HISTORY		
DATE	ECO NUMBER	REV

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	0TU78-AB	TU78-AF + TM78-AB,240V 60HZ	1	0	1	0	0	0
5	5		0TU78-AD	TU78-AJ + TM78-AB,240V 50HZ	0	1	0	1	0	0
6	6		0TU78-BB	TU78-AF + TM78-BB,240V 60HZ	0	0	0	0	1	0
7	7		0TU78-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	DATE: 02-OCT-80	TEU78 SYSTEM				
			[A] AB,AD,AL,AN,BB,BD	DES,ENG.: DAVE BURNS <i>PB</i>	DATE: 02-OCT-80				
			[B]	RESP,ENG.: DAVE BURNS <i>PB</i>	DATE: 02-OCT-80	DOCUMENT NUMBER			
			[C]	MFG,ENG.: BRUCE ROTENBERG <i>PB</i>	DATE: 02-OCT-80	SIZE	CODE	NUMBER	REV
			[D]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	K	PL	TEU78-0-DBP	A
			[E]	E-UA-TEU78-0-0	B-DD-TEU78-0-0	FILE NAME:		EDIT #	
			[F]			22273,PLS		6	

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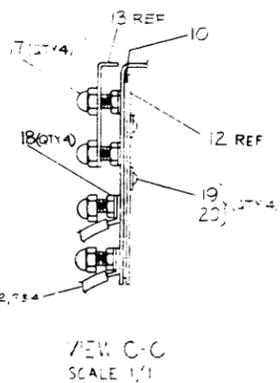
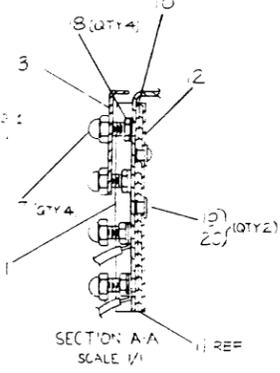
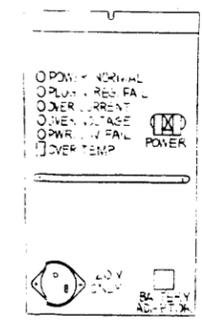
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LEGEND

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

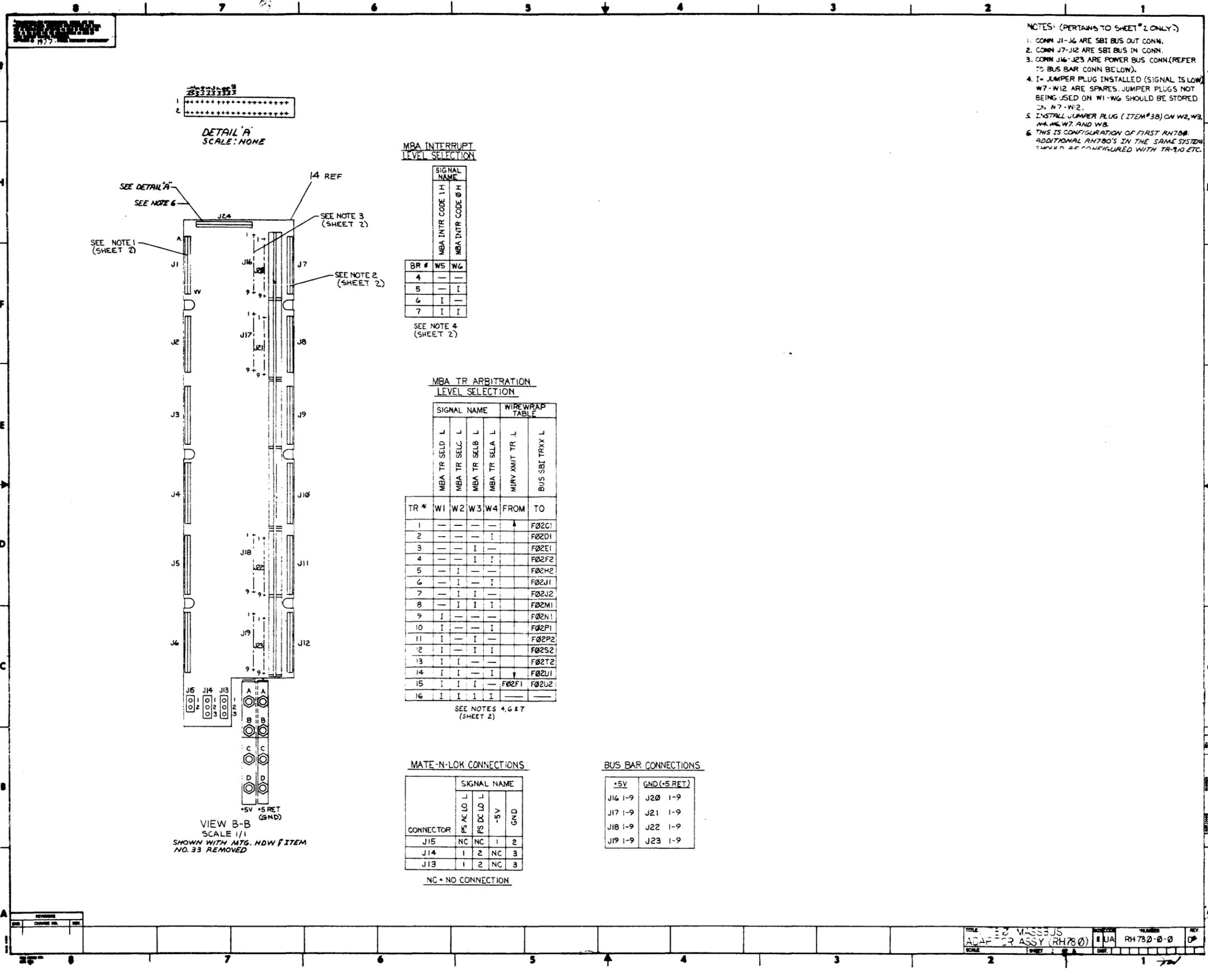
- NOTES: (PERTAINS TO SHEET #1 ONLY.)**
1. CARD GUIDES TO BE INSTALLED AS FOLLOWS: ITEM #15 IN ROWS 1,3 & 5, ITEM #16 IN ROWS 2,4 & 6.
 2. FOR SYSTEM INTERCONNECTION SEE D-IC-11780-0-3.
 3. FOR SYSTEM CABLE INTERCONNECTION SEE D-IC-11780-0-2.
 4. FOR SYSTEM A/C INTERCONNECTION SEE D-IC-11780-0-1.
 5.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



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

REV	DATE	DESCRIPTION
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DESCRIPTION	QUANTITY	UNIT
VAX 11780	1	PCB
11780 MASSBUS ADAPTOR ASSY (RH780)	1	PCB
JA RH780-0-0	1	PCB



- 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 IN W7-W12.
 - INSTALL JUMPER PLUG (ITEM#38) 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, ETC.

DETAIL A
SCALE: NONE

MBA INTERRUPT LEVEL SELECTION

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

SEE NOTE 4 (SHEET 2)

MBA TR ARBITRATION LEVEL SELECTION

TR #	SIGNAL NAME				WIREWRAP 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	-	-	-	-		F02C1
2	-	-	-	-		F02D1
3	-	-	I	-		F02E1
4	-	-	I	-		F02F2
5	-	I	-	-		F02H2
6	-	I	-	I		F02J1
7	-	I	I	-		F02J2
8	-	I	I	I		F02M1
9	I	-	-	-		F02N1
10	I	-	-	I		F02P1
11	I	-	I	-		F02P2
12	I	-	I	I		F02S2
13	I	I	-	-		F02T2
14	I	I	-	I		F02U1
15	I	I	I	-	F02F1	F02U2
16	I	I	I	I		

SEE NOTES 4, 6 & 7 (SHEET 2)

MATE-N-LOK CONNECTIONS

CONNECTOR	SIGNAL NAME			
	PG AC LO L	PG 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		
					00	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 (RH780)			
RP	RH780-TW005	E	(A) 00,AA,AB	DES.ENG.:	R.PANNELL	DATE:	01-APR-83		DOCUMENT NUMBER			
			(B)	RESP.ENG.:	R.PANNELL	DATE:	01-APR-83		SIZE	CODE	NUMBER	REV
			(C)	MFG.ENG.:	A.PADLA	DATE:	01-APR-83	K	PL	RH780-0-DBP	E	
			(D)	ASSEMBLY NUMBER:	A-PL-RH780-0-0	TOP DOCUMENT NUMBER:	E-UA-RH780-0-0		FILE NAME:	Z5532E.PLS	EDIT #	
			(E)								6	
			(F)									

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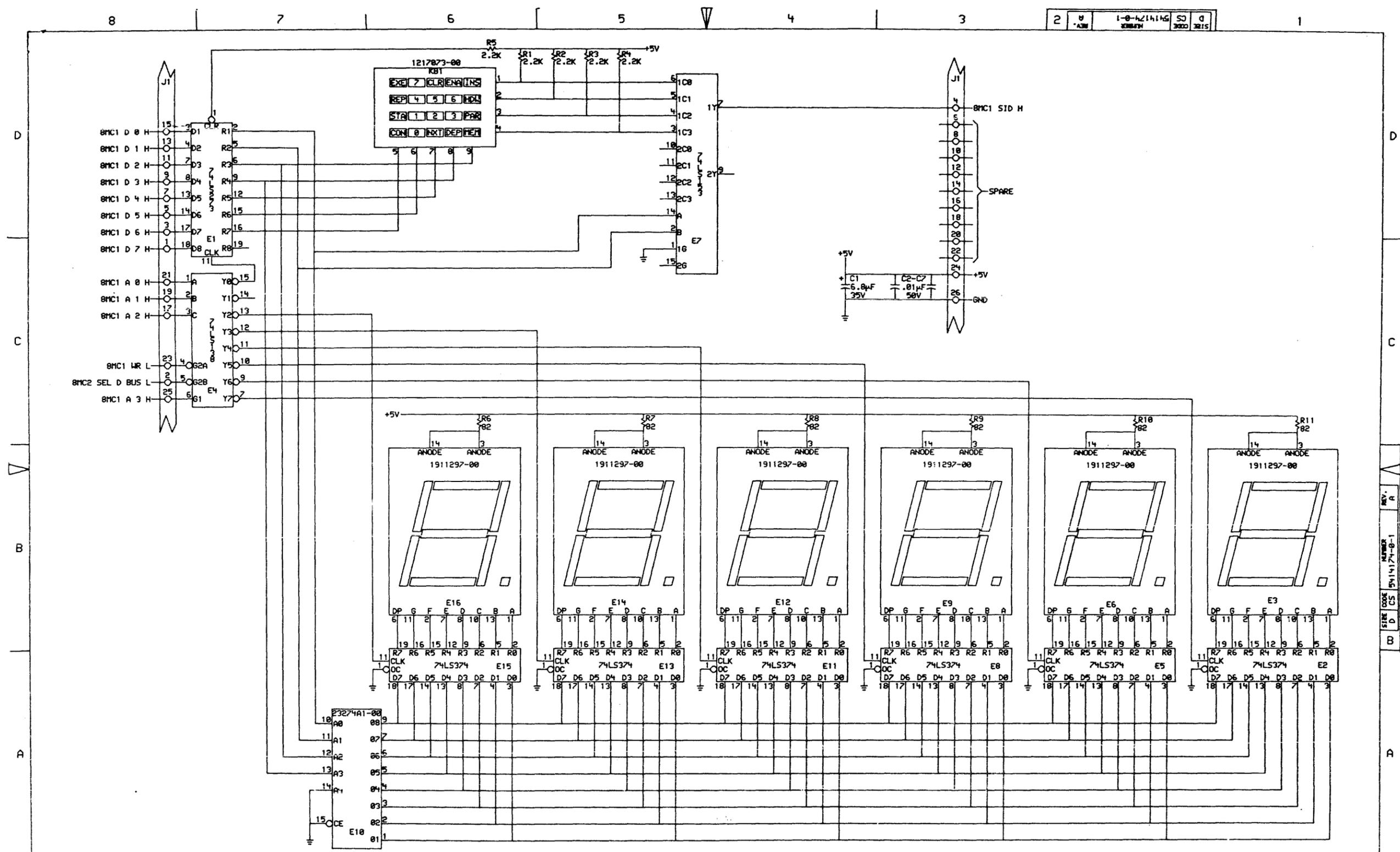
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P A R T S L I S T

SHEET A2 OF A2

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION		
					OO	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	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							11780 MASSBUS ADAPTOR ASSY (RH780)		K	PL	RH780-0-CBP	E



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REVISIONS		
CHK	CHANGE NO.	REV

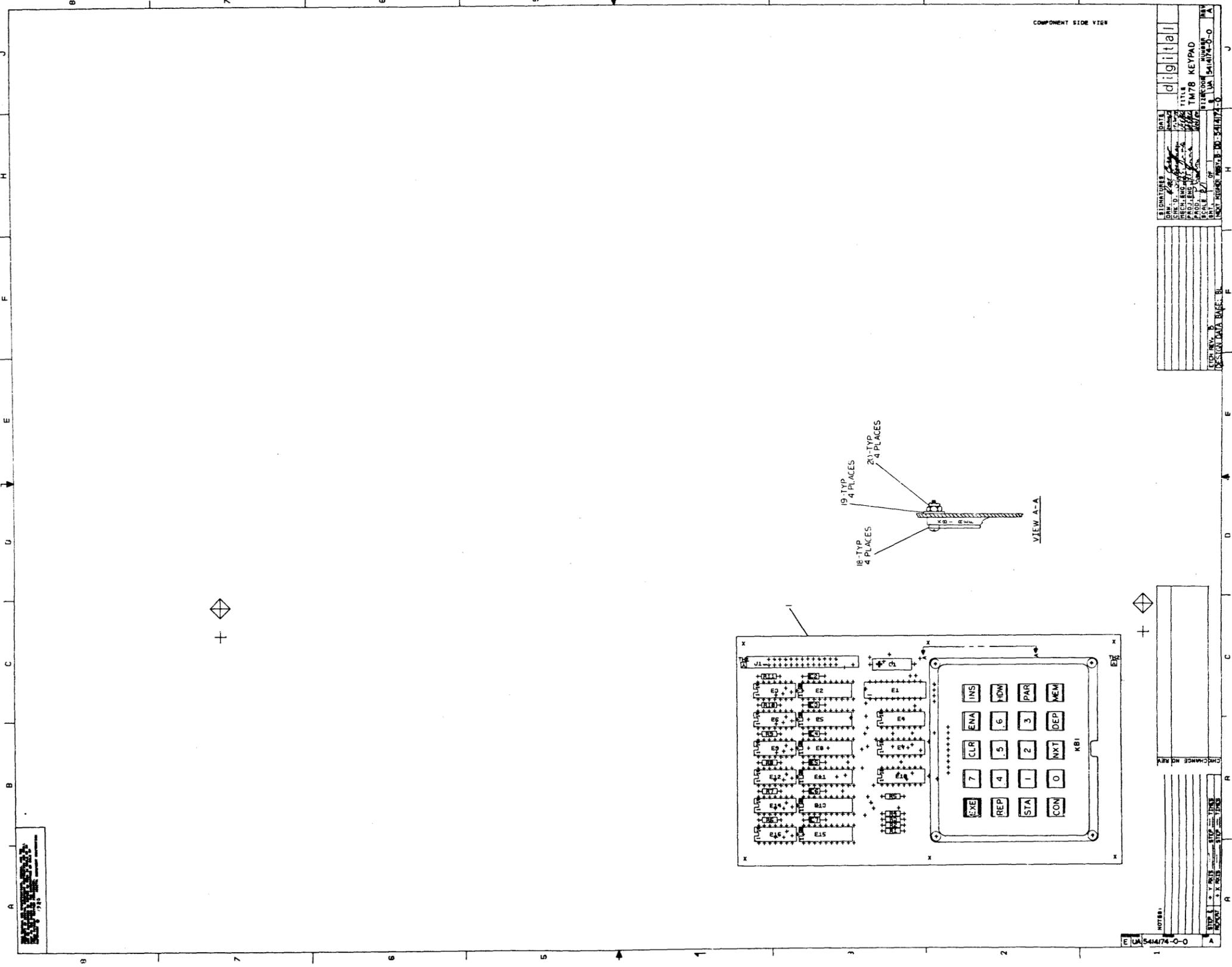
DATE: 15-APR-88	DESIGNER: J. J. Lewis	DATE: 15-APR-88	TITLE: TM78 KEYPAD
DATE: 15-APR-88	DESIGNER: J. J. Lewis	DATE: 15-APR-88	TITLE: TM78 KEYPAD
DATE: 15-APR-88	DESIGNER: J. J. Lewis	DATE: 15-APR-88	TITLE: TM78 KEYPAD

364,4825 JKBCS.DWG	11-APR-88 11:11	NEXT HIGHER ASSEMBLY: B-DD-5414174-0	SIZE: D CS	CODE: 5414174-0-1	NUMBER: A	REV: A
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REV. A
NUMBER 5414174-0-1
SIZE CODE CS
D

15770886VARDWAVE0025

DESIGN ZA 2 23 AUG 79 12 18 A M DRI USN WAW 65



COMPONENT SIDE VIEW

18-TYP
4 PLACES

19-TYP
4 PLACES

21-TYP
4 PLACES

VIEW A-A

DATE	11/11/79	TITLE	digital
DESIGNED BY	[Signature]	PROJECT NO.	TM78 KEYPAD
CHECKED BY	[Signature]	QUANTITY	1
APPROVED BY	[Signature]	REVISION	0
DATE	11/11/79	BY	LA 541474-D-0
SCALE	1:1	NO. OF SHEETS	1
PROJECT NO.	TM78 KEYPAD	DATE	11/11/79
BY	LA 541474-D-0	NO. OF SHEETS	1

REV.	DESCRIPTION

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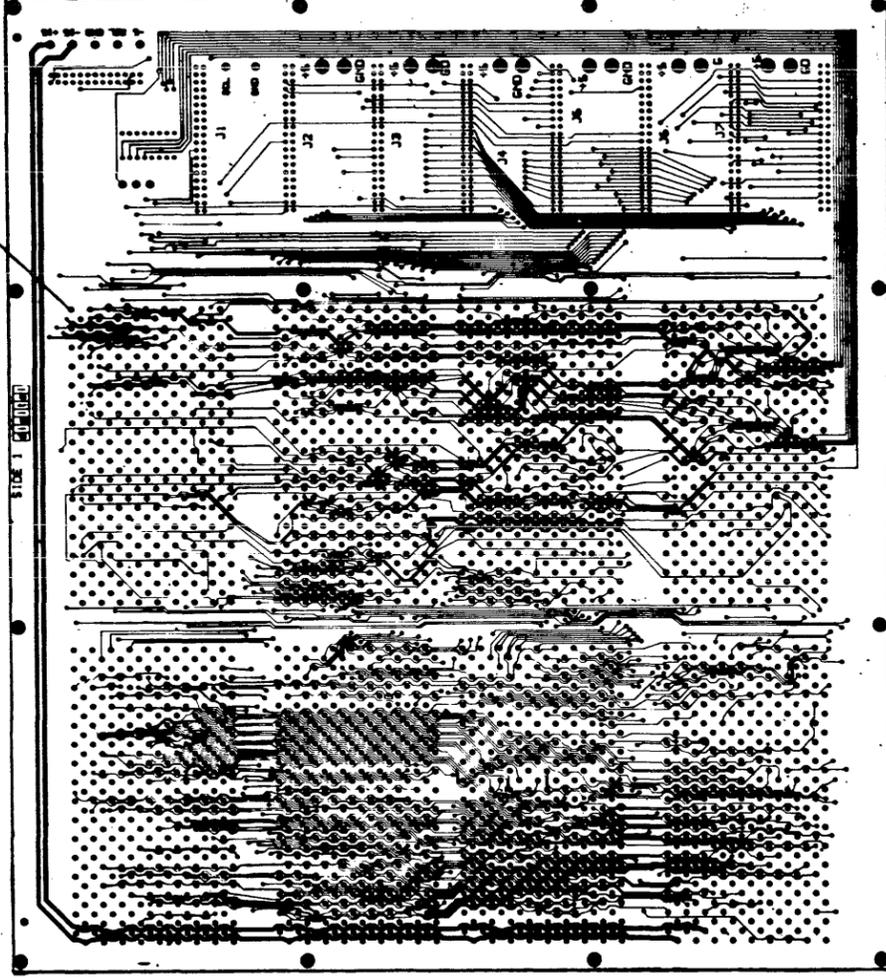
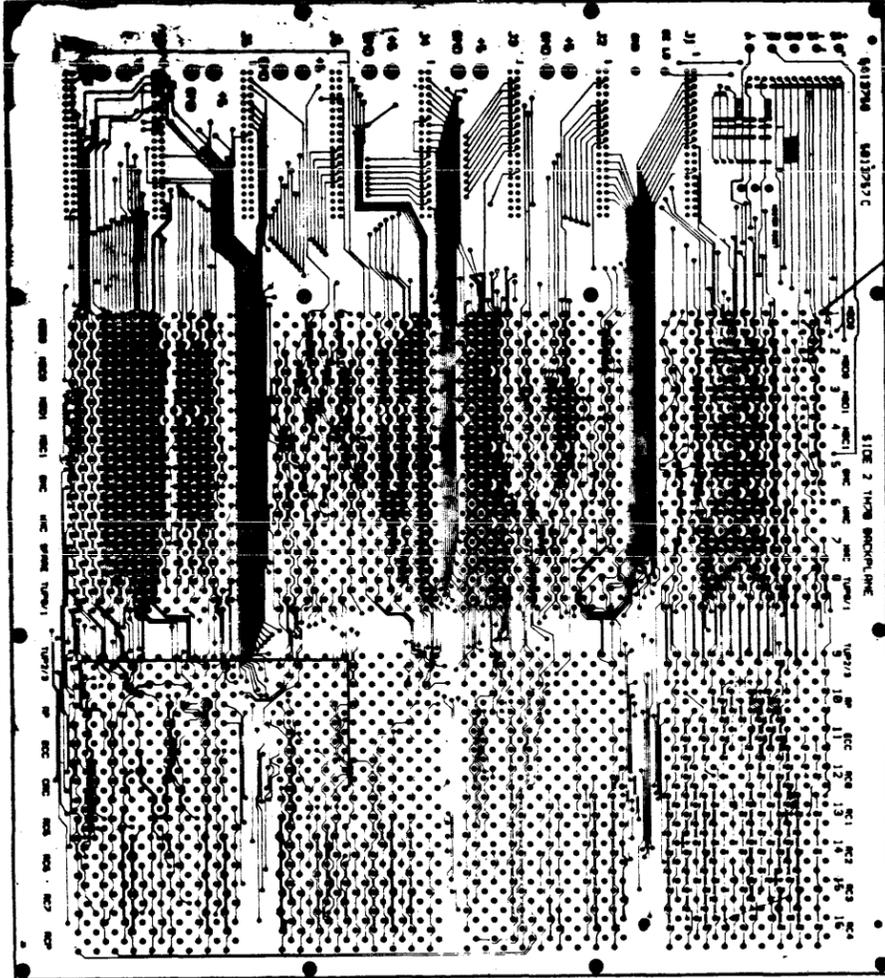
REV.	DESCRIPTION

REV.	DESCRIPTION

E LA 541474-D-0

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	DES.ENG: D.JERVIS	DATE: 20-SEP-79	DOCUMENT NUMBER	
			[B]	RESP.ENG.: D.JERVIS	DATE: 20-SEP-79	SIZE: CODE:	NUMBER
			[C]	MFG.ENG.: P.BARTON	DATE: 20-SEP-79	K	PL 5414174-0-DBP
			[D]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME: EDIT #	
			[E]	E-UA-5414174-0-0	#B-DD-5414174-0	20546A.PLS 3	
			[F]	"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"			
			[G]				
			[H]				
			[J]				
			[N]				



NOTES:

CHANGE NO	REV	
5413758	-	C
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SIGNATURES	DATE	digital
DRN. <i>[Signature]</i>	<i>[Date]</i>	
CHK. <i>[Signature]</i>	<i>[Date]</i>	TITLE
ENG. <i>[Signature]</i>	<i>[Date]</i>	TM78 BACKPLANE
PROJ. ENG. <i>[Signature]</i>	<i>[Date]</i>	
PROD. P. <i>[Signature]</i>	<i>[Date]</i>	
SCALE 1-1	SIZE CODE	NUMBER
SHT. 1 OF 1	D CS 5413758-0-1	C
ETCH REV C FIRST USED ON TM78		

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
			VARIATION REVISION LEVEL:	00	
1		5013757-00	54-13758	1	
2		1210758-01	CONN, CARD 28PIN SLOTTED OPEN FN	1	J14-J21
3		1215341-00	PCB HEADER 40PIN(2X20).100CC STM	1	J1-J8
4		1215341-02	PCB HEADER 26PIN(2X13).100CC STM	1	J9
5		1211164-04	SW, DIP 09POS/1PST 5VDC100MA P	1	S1
6		1211079-00	SW, DIP 1PDT NC-NO MOM 1A	1	PB1
7	F-UA-5413758-0-0		UNIT ASSY	REF	
8	L-CS-5413758-0-1		CIRCUIT SCHEMATIC	REF	
9	F-MD-5013757-0-0		DRILL & FITCH DWG	REF	
10	F-EC-5013757-0-0		FITCH CUT DWG	REF	

REVISION HISTORY		BASIC PART NO: 5413758		DATE: 70-SEP-79	D I G I T A L
ENGR	EC NUMBER	REV	SECTION A OF A	NAME: V. MANGAUDIS	TITLE: PARTS LIST
---	INITIAL	IC	SECTION VARIATION INDEX	DATE: 70-SEP-79	INTO BACKPLANE
R.015413758-SH001			(A) 00	NAME: P. RUSSMAN	DOCUMENT NUMBER
			(B)	DATE: 70-SEP-79	SIZE CODE NUMBER
			(C)	NAME: D. JERVIS	REV
			(D)	DATE: 70-SEP-79	K PL 5413758-0-DBP C
			(E)	NAME: D. JERVIS	
			(F)	DATE: 70-SEP-79	RELEASE DATE: 04-MAR-84
			(G)	NAME: P. HANTON	
			(H)	DATE: 70-SEP-79	
			(I)	ASSEMBLY NUMBER:	FILE NAME:
			(J)	F-UA-5413758-0-0	20949C.PLS
			(K)	TOP DOCUMENT NUMBER:	EDIT #
			(L)	FB-00-5413758-0	4
			(M)		
			(N)		

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