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FIELD MAINTENANCE PRINT SET

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TABLE OF CONTENTS

E-UA-NIA20-A-0	NIA20-A UNIT ASSY
K-PL-NIA20-A-DBP	NIA20-A UNIT ASSY
D-IC-NIA20-A-1	INTERCONNECT NIA20-A
A-SP-NIA20-A-1	SPEC FOR NIA20-A
E-AD-7019268-0-0	CARD CAGE ASSY
K-PL-7019268-0-DBP	CARD CAGE ASSY
D-IA-7020539-0-0	CABLE, FAN A/C 50HZ
K-PL-7020539-0-DBP	CABLE, FAN A/C 50HZ
D-IA-7019274-0-0	CABLE, FAN A/C 60HZ
K-PL-7019274-0-DBP	CABLE, FAN A/C 60HZ
D-IA-7019272-0-DBU	HARNESS DC-5.2
K-PL-7019272-0-DBP	HARNESS DC-5.2
D-IA-7019273-0-DBU	CABLE ASSY
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D-UA-BC06R-0-0	I/O CABLE
K-PL-BC06R-0-DBP	I/O CABLE
D-AD-7019266-0-0	MODULE BLANK ASSY
K-PL-7019266-0-DBP	MODULE BLANK ASSY
D-DD-M3001-0 (COMPLETE)	E-BUS INTERFACE
D-DD-M3002-0 (COMPLETE)	MICROPROCESSOR
D-DD-M3003-0 (COMPLETE)	C-BUS INTERFACE
B-DD-L0072-0 (COMPLETE)	NIA20 ADAPTER
D-IA-7019893-0-0	INTERNAL CABLE
K-PL-7019893-0-DBP	INTERNAL CABLE

UNIT VARIATIONS COVERED BY THIS PRINT SET

NIA20-AA
NIA20-AB

FIELD MAINTENANCE
PRINT SET

DIGITAL EQUIPMENT
CORPORATION

PRINT SET PART
NUMBER MP01984-01

REVISION HISTORY	REV.	DATE	DRN.	DATE	TITLE		
	ECO NUMBER		M. JOSEPH	4 DEC 84	NIA20-A TABLE OF CONTENTS		
			CHK'D JOE DONAHER	10 DEC 84			
			DES. ENG. PAT CAPPABIANCA	10 DEC 84			
DATE			RESP. ENG. JOHN TIUNAN	10 DEC 84	SIZE CODE	NUMBER	REV.
			FIELD SERVICE BOB BRANDIMARTE	10 DEC 84	B TC	NIA20-A-DBU	A
			TOP DOC.				
			B-DD-NIA20-A-DBU		SHEET 1 OF 2		

REV. A
NUMBER NIA20-A-DBU
SIZE CODE B TC

A-PS-9107673-0-0	POWER CORD EXT. 60HZ	
D-AD-7011432-0-0	POWER CORD EXT. 50HZ	
D-1A-7021448-0-DBU	HARNESS DC VOLTAGE MON.}	SECT. #1
K-PL-7021448-0-DBP	HARNESS DC VOLTAGE MON.}	
D-1A-7020352-0-0	HARNESS DC VOLTAGE MON.}	SECT. #2
K-PL-7020352-0-DBP	HARNESS DC VOLTAGE MON.}	
D-1A-7019862-0-0	HARNESS VANE SWITCH	
K-PL-7019862-0-DBP	HARNESS VANE SWITCH	
B-DD-5414506-0 (COMPLETE)	VOLTAGE MONITOR BOARD	
D-1A-7019270-0-0	CABLE M-BUS	
K-PL-7019270-0-DBP	CABLE M-BUS	
D-1A-7020488-0-0	HARNESS, SHORT VANE SWITCH	
K-PL-7020488-0-DBP	HARNESS, SHORT VANE SWITCH	
B-DD-5414793-0 (COMPLETE)	BACKPANEL CI20	
D-DD-5415695-0 (COMPLETE)	CURRENT LIMITER	
K-PL-NIA20-A-SH	NIA20-A SHIPLIST	

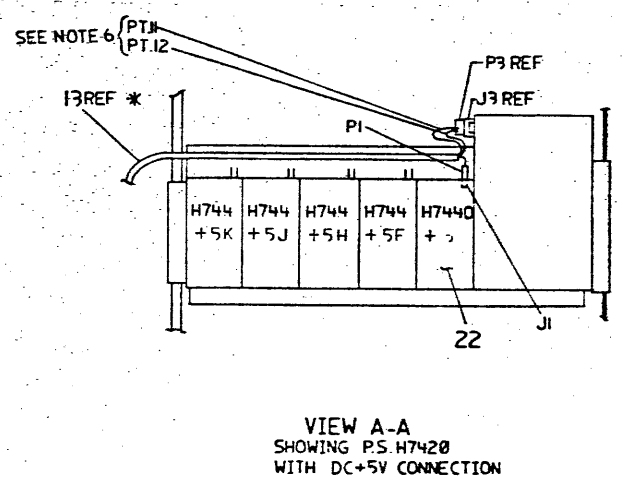
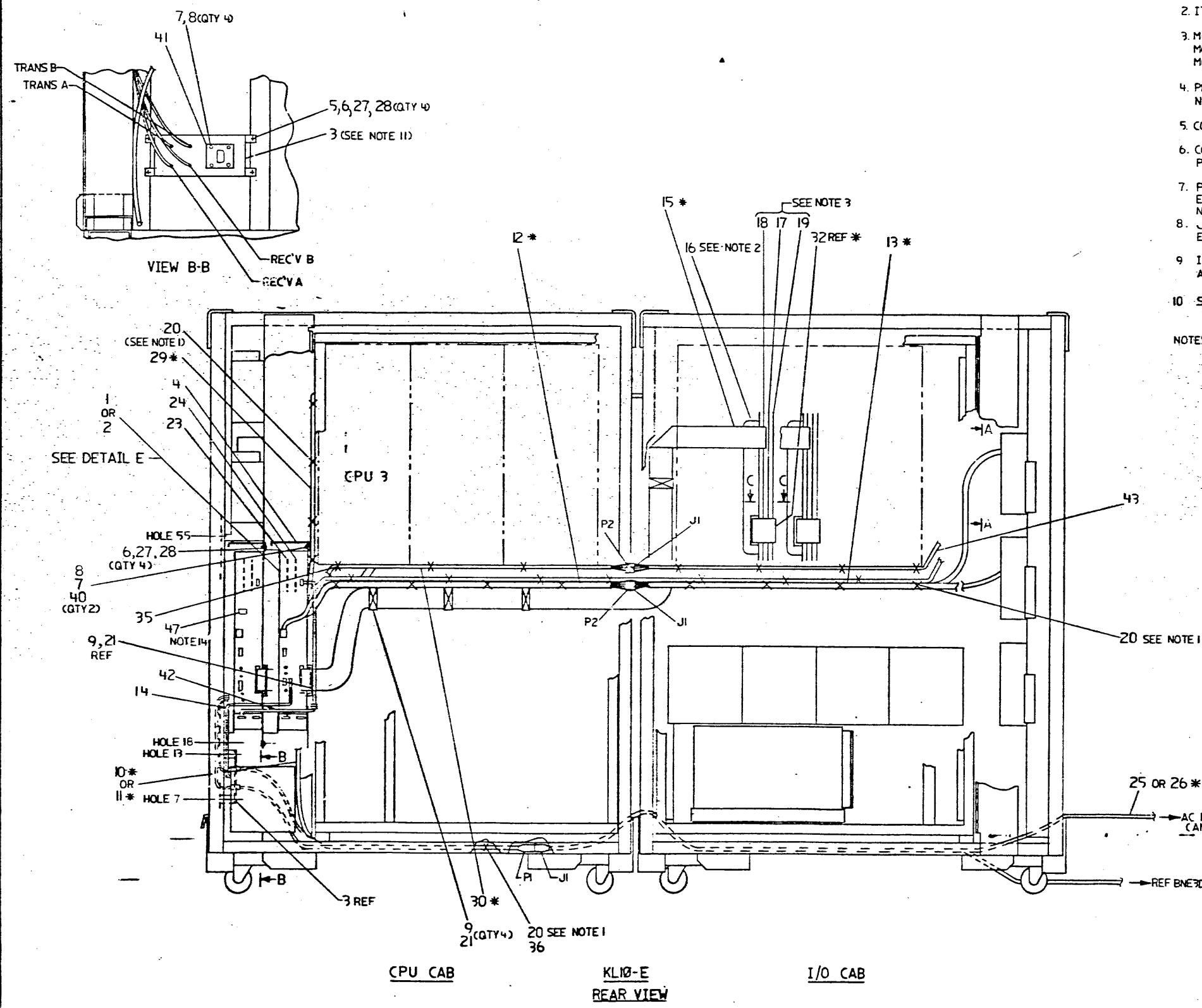
A-PS-9107673-0-0	POWER CORD EXT. 60HZ	
D-AD-7011432-0-0	POWER CORD EXT. 50HZ	
D-IA-7021448-0-DBU	HARNESS DC VOLTAGE MON.	} SECT. #1
K-PL-7021448-0-DBP	HARNESS DC VOLTAGE MON.	
D-IA-7020352-0-0	HARNESS DC VOLTAGE MON.	} SECT. #2
K-PL-7020352-0-DBP	HARNESS DC VOLTAGE MON.	
D-IA-7019862-0-0	HARNESS VANE SWITCH	
K-PL-7019862-0-DBP	HARNESS VANE SWITCH	
B-DD-5414506-0 (COMPLETE)	VOLTAGE MONITOR BOARD	
D-IA-7019270-0-0	CABLE M-BUS	
K-PL-7019270-0-DBP	CABLE M-BUS	
D-IA-7020488-0-0	HARNESS, SHORT VANE SWITCH	
K-PL-7020488-0-DBP	HARNESS, SHORT VANE SWITCH	
B-DD-5414793-0 (COMPLETE)	BACKPANEL CI20	
D-DD-5415695-0 (COMPLETE)	CURRENT LIMITER	
K-PL-NIA20-A-SH	NIA20-A SHIPLIST	

TITLE:	NIA20-A	SIZE	CODE	NUMBER	REV.
TABLE OF CONTENTS		B	TC	NIA20-A-DBU	A
SHEET 2 OF 2					

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LEGEND		
PART NO.	VARIATION	REV
NIA20-AA	15/50/60HZ	A2
NIA20-AE	250V 50/60HZ	A2

- NOTES: * FOR ALL HARNESS AND CABLE CONNECTIONS SEE HARNESS OR CABLE CHARTS ON SHEET 3.
1. ATTACH CABLE TIES (ITEM 20) APPROX 8" APART EXCEPT WHERE SHOWN.
 2. ITEM *16 OCCUPIES SLOTS 22, 23 & 24.
 3. MODULE M 3001 ITEM *19 IS LOCATED IN RH20 LOGIC ASSY SLOT *19
MODULE M 3002 ITEM *17 IS LOCATED IN SLOT *20
MODULE M 3003 ITEM *18 IS LOCATED IN SLOT *21
 4. PLACE ITEM *37 (DECAL, AIR FLOW) ON POWER CONTROLLER *863 NEXT TO AIR FLOW CPU LED.
 5. CONNECT TO ANY AVAILABLE SWITCHED OUTLET.
 6. CONNECT POINTS 11 & 12 FROM ITEM *39 PIN MATE-N-LOCK, TO AVAILABLE POSITION 1 & 2, OR 3 & 4, OR 5 & 6, OR 7 & 8 (19-30 VAC).
 7. P2 ON ITEM *30 (HARNESS, VANE SWITCH) CONNECTS WITH EXISTING VANE SWITCH CONNECTOR. SEE VIEW D-D ON SHEET 2 OF 3. NOT USED WHEN C120 IS INSTALLED.
 8. J1 ON ITEM *30 (HARNESS, VANE SWITCH) CONNECTS WITH EXISTING CONNECTOR P4. SEE VIEW D-D ON SHEET 2 OF 3.
 9. ITEM *39 (SUPPORT, CABLE) NOT USED IF SYSTEM IS EQUIPPED WITH A MA20 CORE MEMORY.
 10. SWITCH POSITIONS ON VOLTAGE MONITOR BOARD: SWITCH *1 - ON
SWITCH *2 - OFF
SWITCH *3 - OFF
SWITCH *4 - OFF
- NOTES CONTINUED ON SHEET 2



CAUTION: OFF SHEET PARTS LIST SEE K-PL-NIA20-A-DBP. (Z7838A)

DATE: 10/1/78
DRAWN BY: J. L. TUNNAN
CHECKED BY: J. L. TUNNAN
APPROVED BY: J. L. TUNNAN
REVISION: 1

DESCRIPTION		DRAWING NO.		PART NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY: PER DEC STD 114					
INCHES	ALL DIMENSIONS	WIRE CABLE	DRILLING	FINISH	OTHER
2 ± .1	± .010	± .010	± .010	± .010	± .010
25 ± .01	± .005	± .005	± .005	± .005	± .005
300 ± .01	± .005	± .005	± .005	± .005	± .005
QUANTITY & VARIATION		TYPED ANGLE PROJECTION		TITLE	
DO NOT SCALE DRAWING		DO NOT SCALE DRAWING		NIA20 ASSY	
REMOVE BURRS AND BREAK SHARP CORNERS		REMOVE BURRS AND BREAK SHARP CORNERS		DOCUMENT NUMBER	
SEE PARTS LIST		SEE PARTS LIST		EUA NIA20-A-0	

NOTES: CONTINUED FROM SHEET 1

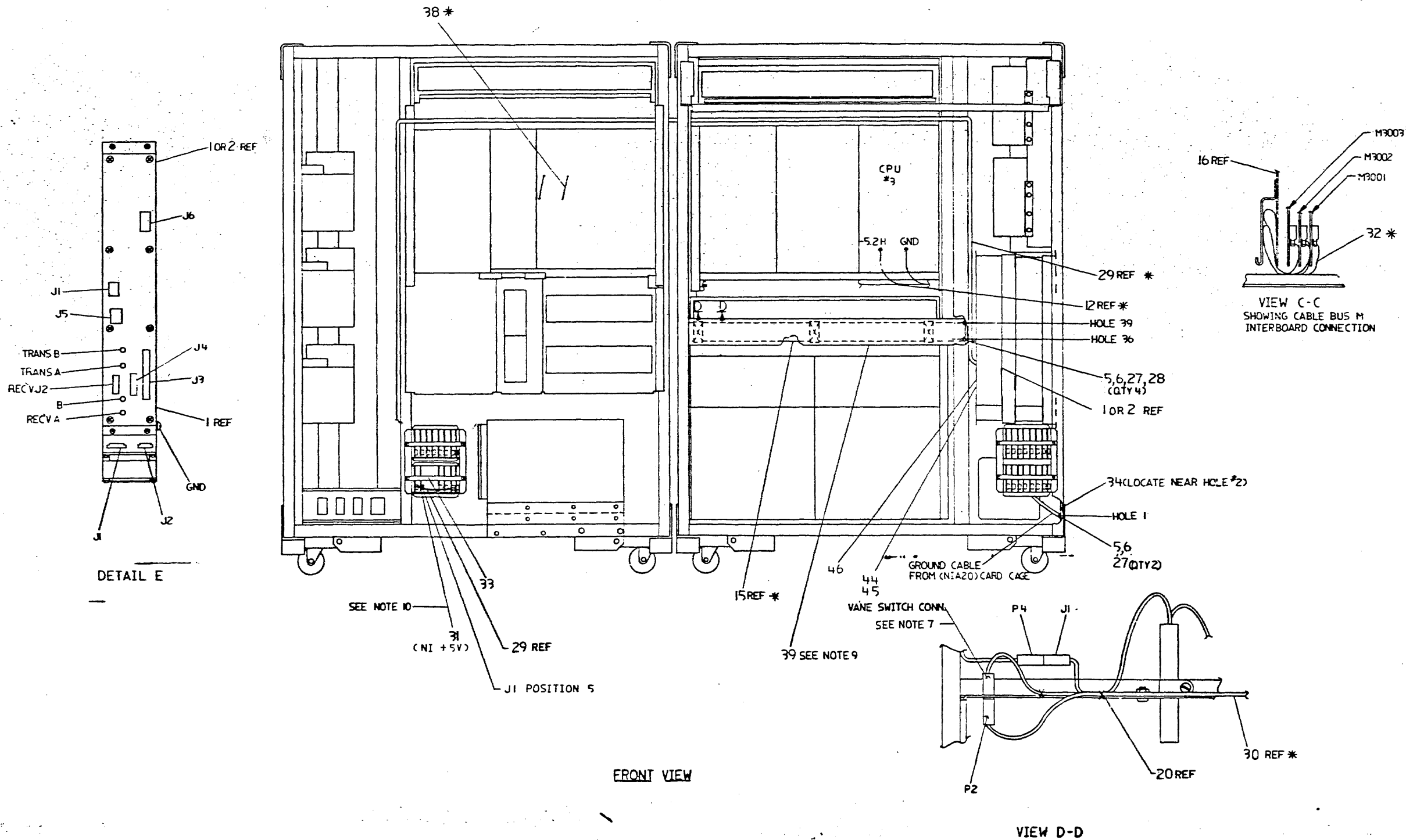
11. ITEMS NOT NEEDED WHEN 'CI' KIT IS INSTALLED

ITEMS	QTY	PART NO.
5	8	9007786-00
6	8	9005073-01
27	8	9007651-00
28	8	9006668-00
3	1	7426312-01
30	1	7019862-00

12. REMOVE CABLE FROM 'C120' CARDCAGE IN J6 POSITION AND PLUG INTO J6 ON 'NIA20' CARDCAGE.

13. ITEM #42 ONLY USED WHEN C120 AND NIA20 ARE INSTALLED TOGETHER.

14. PLACE ITEM #47 OVER LABEL INSIDE OF CARD CAGE DOOR.



LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	
						AA	AB
						VARIATION REVISION LEVEL:	
						A2	A2
1	1	E-AD-7019268-0-0	7019268-00		CARD CAGE ASSY IPA-20-L	1	-
2	2	E-AD-7019268-0-0	7019268-01		CARD CAGE ASSY CI20	-	1
3	3	D-IA-7428312-0-0	7428312-01	A	BRACKET,INTERFACE	1	1
4	4	C-IA-7428222-0-0	7428222-01		BAFFLE,AIR	1	1
5	5		9007786-00		RETAINER,U-NUT 10-32X	9	9
6	6		9006073-01		SCREW,MACH PAN PHIL 10-	13	13
7	7		9006022-01		SCREW,MACH PAN PHIL 6-	6	6
8	8		9006633-00		WASHER,LOCK INTERNAL STEEL	6	6
9	9		1213716-00		SPACER,FOAM POLYU 1/2	4	4
10	10	D-IA-7020539-0-0	7020539-06		CABLE,FAN AC	-	1
11	11	D-IA-7019274-0-0	7019274-06		CABLE,FAN AC	1	-
12	12	D-IA-7019272-0-0	7019272-00		HARNESS DC-5.2 SECT N1-1 DC+5	1	1
13	13	D-IA-7019273-0-0	7019273-00		HARNESS DC-5.2 SECT N1-2 DC+5	1	1
14	14	D-IA-7019893-0-0	7019893-3L		CABLE ASSY, ETHERNET	1	1
15	15		BC06R-08		BC06R I/O CABLE	1	1
16	16	D-AD-7019266-0-0	7019266-00		MODULE BLANK ASSY	1	1
17	17		M3002-00		CI20 MICROPROCESSOR,MULTIWIRE HE	1	1
18	18		M3003-00		CI20 C-BUS/PLI INTERFACE,MULTIWI	1	1
19	19		M3001-00		CI20 E-BUS INTERFACE,MULTIWIRE H	1	1
20	20		9007032-00		TIE,CABLE BUNDL.DIA 0-1-3/4"=101	A/R	A/R
21	21		1213715-00		CLIP,FLAT CABLE W/ADHESIVE BK	4	4
22	22		H7440-00		POA1 H7440	1	1
23	23		L0072-00		NI20 (KL10 TO NI ADAPTOR)	1	1
24	24	D-IA-7014103-0-0	7014103-00		BLANK MODULE ASSY	1	1
25	25		9107673-06		PWR CORD,TERM 3-14 SJT 115	1	-
26	26	D-AD-7011432-0-0	7011432-02		POW CORD EXTENSION 50HZ	-	1
27	27		9007651-00		WASHER,LOCK EXTERNAL STEEL	14	14
28	28		9006664-00		WASHER,FLAT SST	12	12
29	29	D-IA-7020352-0-0	7020352-00		HARNESS, D.C. VOLTAGE MONITOR	1	1
30	30	D-IA-7019362-0-0	7019862-00		HARNESS,VANE SWITCH	1	1

REVISION HISTORY			BASIC PART NO: NIA20		DRN: P. DENNISON	DATE: 8 SEP 83	D I G I T A L			
ENC	ECO NUMBER	REV	SECTION A OF A							
---	INITIAL	A	SECTION VARIATION INDEX		CHK'D: JIM SICARD	DATE: 14-APR-83	TITLE PARTS LIST			
UT	NIA20-MR001	B	[A]AA,AB				NIA20 ASSY (KL10-E)			
			[B]		DES.ENG: P. CAPPABIANCA	DATE: 25-APR-83	DOCUMENT NUMBER			
			[C]				SIZE	CODE	NUMBER	REV
			[D]		RESP.ENG.: P. CAPPABIANCA	DATE: 25-APR-83	K	PL	NIA20-A-DBP	B
			[E]		MFG.ENG.: S. ALMEIDA	DATE: 15-APR-83	RELEASE DATE: 16-AUG-85			
			[F]		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
					E-UA-NIA20-A-0	#B-DD-NIA20-A	Z7838B.PLS		34	

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LINE ITEM		TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	
						AA	AB
					VARIATION REVISION LEVEL:	A2	A2
31	31	D-UA-5414506-0-0	5414506-01		VOLTAGE, MONITOR BOARD	1	1
32	32	D-IA-7019270-0-0	7019270-1J		BUS, CABLE, M ASSY.	1	1
33	33		3621499-01	A	LABEL,DCV MONITOR CI20	1	1
34	34		3613272-00		LABEL,ADH BACK,MYLAR CAP	1	1
35	35		9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	36	36
36	36		9008264-00		MOUNT, CABLE TIE, ADHESIVE BACKE	A/R	A/R
37	37	SEE NOTE 4 ON UA	3621498-02	A	LABEL,AIRFLOW CPU/NI CT 20	1	1
38	38	SEE NOTE 1	9105740-55		WIRE(WRAP) 30AWG KYNAR UL14	A/R	A/R
39	39	D-IA-7428311-0-0	7428311-01		SUPPORT,CABLE	1	1
40	40		9006659-00	A	WASHER,FLAT S/PAS	2	2
41	41		5415695-01		CURRENT LIMITER	1	1
42	42	D-IA-7020488-0-0	7020488-00		CABLE, SHORT SWITCH VANE	1	1
43	43	D-IA-7021448-0-0	7021448-5C		CABLE DC VOLTAGE MONITOR SECT. 1	1	1
44	44		3617674-00		LABEL,SERIAL/POWER W/O UL + CSA	-	1
45	45		3617674-01		LABEL,SERIAL/POWER W UL & CSA	1	-
46	46		3617880-09		LABEL,CLASS "A" SUBASSEMBLY	1	-
47	47		3621501-02		LABEL,MODULE LOCATION,NI20	1	1

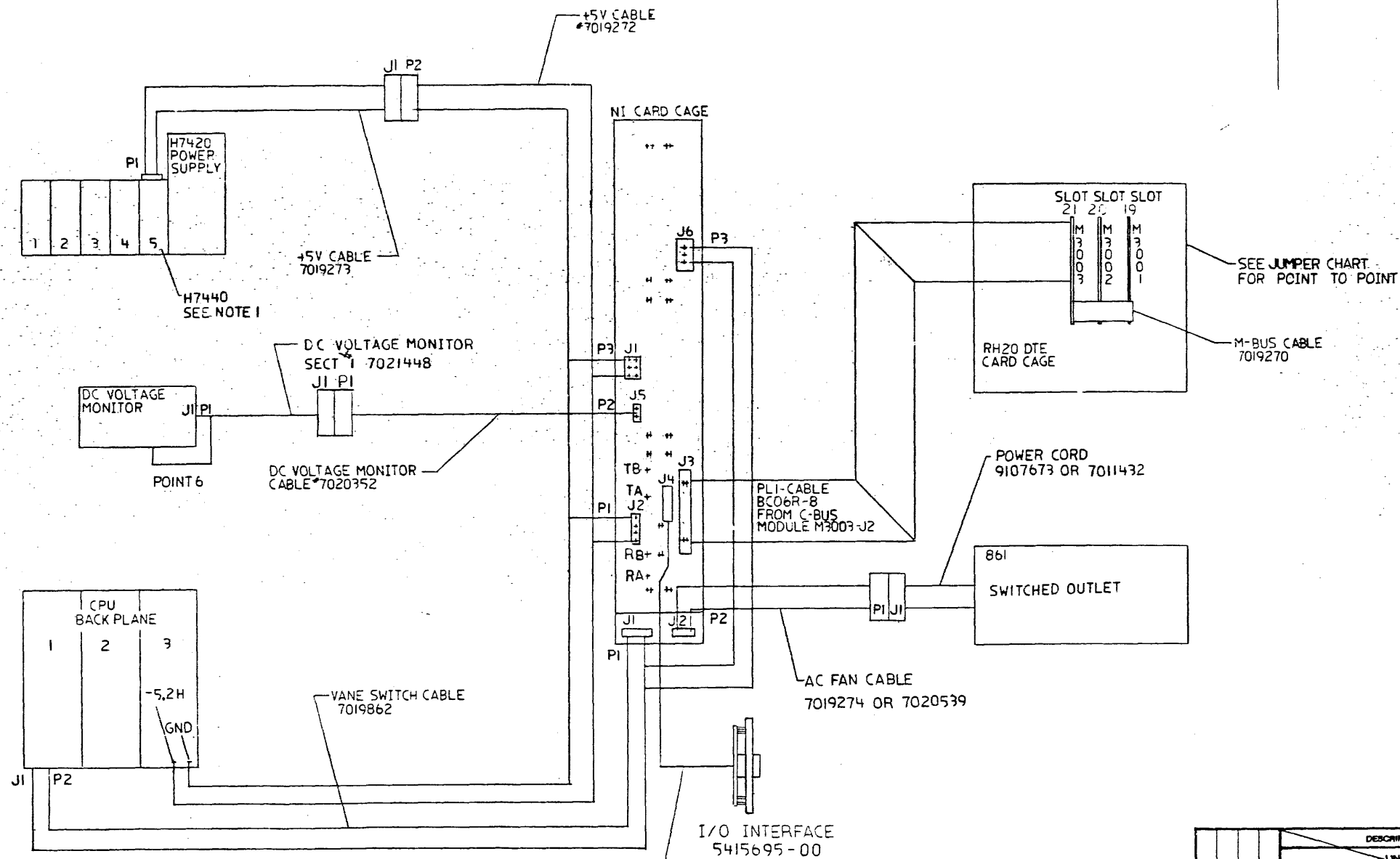
48 NOTE: 12 FEET REQUIRED

DIGITAL				TITLE		SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				NIA20 ASSY (KL10-E)			K	PL	NIA20-A-DBP	B

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NOTES:

1. CONNECT 2 POSITION CONNECTOR PI TO H7440-J1. CONNECT POINTS 11&12 TO H7420 9PIN MAT-IN LOK. TO AVAILABLE POSITION 1&2 3&4 5&6 OR 7&8. (19-30 VAC)



SEE JUMPER CHART FOR POINT TO POINT

M-BUS CABLE 7019270

JUMPER CHART			
FROM		TO	
UNIT	LOCATION	UNIT	LOCATION
RH20BP	B10N1	RH20BP	B13B1
	B13B1		B19B1
	C10L2		B13B2
	B13B2		B19B2
	C10K2		B13U1
	B13U1		B19U1
	C10T2		C13B1
	C13B1		C19B1
	C12H2		C13N1
	C13N1		C19N1
	C12L1		C13B2
	C13B2		C19B2
	C14H2		A15R2
	C14F1		F15A1
	A14J2		A15E1
	C14P1		A15D2
	C14K2		A15S2
	B14J1		B15A1
	C20H2		A21R2
	C20F1		F21A1
	A20J2		A21E1
	C20P1		A21D2
	C20K2		A21S2
RH20BP	B20J1	RH20BP	B21A1

DESCRIPTION		DRAWING NO.		PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER ISO-STD 114)							
INCHES TOLERANCES		ANGLES ±0°30'		APPLICABLE DIMENSION RANGE			
X = ±.1		SURFACE QUALITY		(CHECK ONE)			
JXX = ±.02		MICRONCHES		OVER OVER OVER OVER OVER OVER			
XXX = .005		MICRONCHES		TO TO TO TO TO TO			
QUANTITY & VARIATION		THIRD ANGLE PROJECTION		DATE 8-SEPT-83			
DO NOT SCALE DRAWING		REMOVE BURRS AND BREAK SHARP CORNERS		DATE 3-DEC-84			
MATERIAL		FINISH		DATE 27-JUN-85			
NEXT HIGHER DOC.		E-UA-NIA20-A-0		DATE 29-JUN-84			
TITLE		INTERCONNECT DIAGRAM NIA20-A		DOCUMENT NUMBER			
SCALE		1		REV. A			
SHEET 1 OF 1		MRO					

DATE 5-DEC-84

REVISIONS

B	NIA20	MRO01	B. EICHMANN	1 MAY 81	<i>[Signature]</i>	9/1/81
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OFF. 10. (1972) 107900 10.47 1
110. 10.10

SHEET 1 OF 35

01991350

CONTINUATION SHEET

1.0 OVERVIEW

This describes the installation of the NIA20 Network Interconnect Adapter in a KL10-E system. Figures 3-1 and 3-2 show the NIA20 installed in a KL10-E, rear and front views, respectively. Table 3-1 itemizes the NIA20 parts and Table 3-2 lists the harness and cable connections used in the NIA20/KL10-E installation.

The NIA20 installation uses assigned slots in RH20 Logic Assembly positions 4 and 5, with RH20 positions 6 and 7 reserved for installation of a CI20 Computer Interconnect. A system containing an NIA20 is limited to a maximum of four RH20s. In the installation of an NIA20, a module blank assembly, DEC part number 7019266-00, is used to prevent plugging any other module into RH20 position 4 as described in subsection 3.4.3, instruction 7 (see figure 3-3).

NOTE

The prior or subsequent installation of a CI20 Computer Interconnect with an NIA20 requires minor deviations in the following procedures and will be described herein when applicable.

SIZE A	CODE SP	NUMBER NIA20-A-1	REV D
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DEC FORM NO EN-01022-16-N370-(381)
DRA 108

SHEET 2 OF 35

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CONTINUATION SHEET

Installation of the NIA20 in an existing system requires implementing the following procedures:

1. Unpacking and checkout of installation kit
2. Pre-installation checkout
3. Backplane wire adds
4. Installation of port modules
5. Installation of power supply regulator
6. Installation of NIA card cage
7. Installation of NIA current limiter
8. Installation of DC power harness
9. Installation of vane switch harness
10. Installation of DC voltage monitor harness and module
11. Installation of PLI bus
12. Installation of fan ac cable and power cord
13. Installation of internal NIA cable
14. Installation of KL10 Adapter Board and Blank Module Assembly
15. Checkout

The following subsections provide detailed instructions for performing each of the above installation procedures.

SIZE A	CODE SP	NUMBER NIA20-A-1	REV B
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DEC FORM NO EN-01022-16-N370-(381)
DRA 108

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910149

CONTINUATION SHEET

Figure 3-1. NIA20 in KL10-E, Rear View

DEC FORM NO EN-01022-16-N370-(381)
DRA 108

SHEET 4 OF 35

TITLE NIA20-A INSTALLATION PROCEDURE

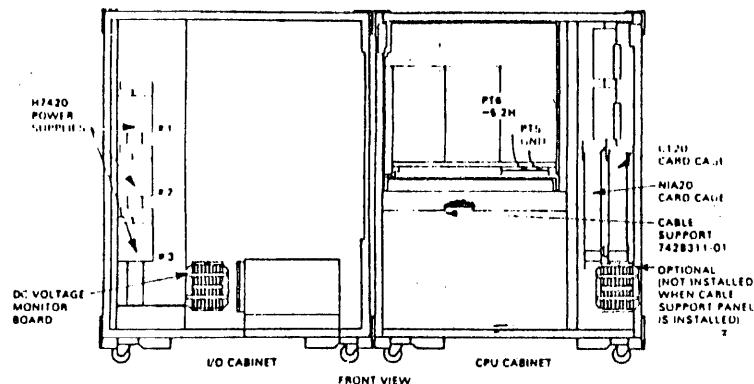


Figure 3-2. NIA20 in KL10-E, Front View

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

Table 3-1. NIA20 in KL10-E Parts List

Line Item	Part Number	Description	Qty
1	7019268-00	Card Cage Assy IPA-20-L	1
2	7019268-01	Card Cage Assy CI20	1
3	7428312-01	Bracket, Interface	1
4	7428222-01	Baffle, Air	1
5	9007786-00	Retainer, U-Nut 10-32X	9
6	9006073-01	Screw, Mach Pan Phil 10-	13
7	9006022-01	Screw, Mach Pan Phil 6-	6
8	9006633-00	Washer, Lock Internal Steel	6
9	1213716-00	Spacer, Foam Polyu 1/2	4
10	7020539-06	Cable, Fan AC	1
11	7019274-06	Cable, Fan AC	1
12	7019272-00	Harness, DC-5.2 Sect NI-1 DC+5	1
13	7019273-00	Harness, DC-5.2 Sect NI-2 DC+5	1
14	7019893-34	Cable Assy Ethernet	1
15	BC06R	BC06R I/O Cable	1
16	7019266-00	Module Blank Assy	1
17	M3002-00	CI20 Microprocessor, Multiwire HE	1
18	M3003-00	CI20 C-Bus/PLI Interface, Multiwire	1
19	M3001-00	CI20 E-Bus Interface, Multiwire HE	1
20	9007032-00	Tie, Cable Bundl. Dia 0-1-3/4"-101	A/R
21	1213715-00	Clip, Flat Cable W/Adhesive Bk	4
22	H7440-00	POA1 H7440	1
23	L0072-00	NI20 (KL10 to NI Adaptor)	1
24	7014103-00	Blank Module Assy	1
25	9107673-06	Pwr Cord, Term 3-14 SJT 115	1
26	7011432-02	Pow Cord Extension 50Hz	1
27	9007651-00	Washer, Lock External Steel	14
28	9006664-00	Washer, Flat SST	12
29	J20352-00	Harness, DC Voltage Monitor	1
30	7019862-00	Harness, Vane Switch	1
31	5414506-01	Voltage, Monitor Board	1
32	7019270-1J	Bus, Cable, M Assy	1
33	3621499-01	Label, DCV Monitor CI20	1
34	3613272-00	Label, Adh Back, Mylar Cap	1
35	9007031-00	Tie, Cable Bundl. Dia 0-3/4"-101	36
36	9008264-00	Mount, Cable Tie, Adhesive Back	A/R
37	3621498-02	Label, Airflow CPU/NI CT 20	1
38	9105740-55	Wire (Wrap) 30AWG KYNAR UL14 (12 ft. required)	A/R
39	7428311-01	Support, Cable	1
40	9006659-00	Washer, Flat S/PAS	2
41	5415695-01	Current Limiter	1
42	7020488-00	Cable, Short Switch Vane	1
43	7021448-5C	Cable, DC Voltage Monitor Sect.1	1
44	3617674-00	Label, Serial/Power W/O UL + CSA	1
45	3617674-01	Label, Serial/Power W UL + CSA	1
46	3617880-09	Label, Class "A" Subassembly	1
47	3621501-02	Label, Module Location, NI20	1

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

Table 3-2. NIA20 in KL10-E Harness and Cable Connections

HARNESS CONNECTIONS				
Parts List Item No.	Harness Terminals	Connection	Remarks	
	Point	Connection		
12	-	P1	NIA20 BP J2	-
	-	P3	NIA20 BP J1	-
	5	-	CPU #3 BP GND	-
	6	-	CPU #3 BP -5.2H	-
	-	P2	SECT. N-2 J1	Parts List Item 13
13	-	P1	H7440 J1	See Figure 3-5
	7	-	See Figure 3-5	
	8	-	See Figure 3-5	
30	-	P1	Fan Brkt. J1	See Note 1
	-	P2	See Figure 3-11	See Note 1
	-	J1	See Note 2	See Note 1
	-	P3	NIA20 BP J6	See Notes 1 and 3
29	-	P2	NIA20 BP J5	
	-	P1	J1	Parts List Item 31
	6	-	+5V Mon.Bd. J1-5	See Figure A-2
41	P3	P1	CI20 Cable Vane Switch	See Note 4
	P2	-	NIA20 Fan Brkt. J1	See Note 4
	P1	-	CI20 Fan Brkt. J1	See Note 4
43	-	J1	P1 Parts List Item 29	
	-	P1	Mon.Bd. J1	Parts List Item 31

NOTES:

- Items not needed when CI kit is installed:

Item	Qty	Part No.	Description
5	8	9007786-00	Retainer, U-Nut 10-32X
6	8	9006073-01	Screw, Mach Pan Phil 10-
27	8	9007651-00	Washer, Lock Ext ST
28	8	9006664-00	Washer, Flat SST
3	1	7428312-01	Bracket, Interface
30	1	7019862-00	Harness, Vane Switch
- J1 on Parts List Item 40 (Harness, Vane Switch) connects with existing connector P4 (see Figure 3-11).
- Relocate cable from CI20 Card Cage at J6 connector and insert into NIA20 Card Cage J6 connector.
- Parts List Item 4 used when CI20 and NIA20 are installed together.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

CABLE CONNECTIONS									
Parts List Item No.	Unit	From			To			Remarks	
		Location	Ref.Desig.	Unit	Location	Ref.Desig.			
10	CI Cage Fan Brk	Gnd J2	Gnd P2	25 or 26	J1	P1		NIA20-CB	
14	CI Cage	J4	P1	41		P2			
25/26	Item 10 or 11	P1	J1	B61 PC		P1		Connect to any avail. switched outlet	
1/2	CI Cage	Gnd	-	Cabrill	Hole P	-			
15	NI20 BP	J3	P1 Stripe Down	RH20 DTE CC	M3003 J2	P2 Stripe Up			
32	M3003	J1	P3	M3002	J1	P2			
	M3001	J1	P1	M3002	J1	P2			
38	RH20 BP	B10N1	-	RH20 BP	B13B1	-			
		B13B1	-		B19B1	-			
		C10L2	-		B13B2	-			
		B13B2	-		B19B2	-			
		C10K2	-		B13U1	-			
		B13U1	-		B19U1	-			
		C10T2	-		C13B1	-			
		C13B1	-		C19B1	-			
		C12H2	-		C13N1	-			
		C13N1	-		C19N1	-			
		C12L1	-		C13B2	-			
		C13B2	-		C19B2	-			
		C14H2	-		A15R2	-			
		C14F1	-		F15A1	-			
		A14J2	-		A15E1	-			
		C14P1	-		A15D2	-			
		C14K2	-		A15S2	-			
		B14J1	-		B15A1	-			
		C20H2	-		A21R2	-			
		C20F1	-		F21A1	-			
		A20J2	-		A21E1	-			
		C20P1	-		A21D2	-			
		C20K2	-		A21S2	-			
		B20J1	-		B21A1	-			

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

2.0 UNPACKING AND CHECKOUT

Before unpacking any equipment, move all boxes into the computer area. Check the shipment against the packing list to be sure that all boxes were sent. If any boxes are missing, contact the customer and the branch field service manager. Check that all boxes are sealed, and there is no sign of external damage, such as dents, holes, or damaged corners.

If any boxes are open or damaged, document it on the installation or field service report and inform the customer. Open the boxes one at a time, starting with the box marked "READ ME FIRST" and find the packing slip. Check the contents of the box against the packing slip and examine each item for damage. Note missing or damaged items on the installation report or field service report.

This completes the unpacking and checkout phase. Advise the branch field service manager of any problems during this phase. If any items are damaged, the branch field service manager may want the customer to file an insurance claim. For missing items, the branch field service manager should get a short-ship request.

3.0 EQUIPMENT NEEDED FOR INSTALLATION AND CHECKOUT

The following equipment is required for installation and checkout of the NIA20:

1. wire wrap tool (or wire wrap gun), No. 30 AWG, DEC part No. 29-18301
2. wire unwrapping tool, No. 30 AWG, DEC part No. 29-13513
3. Regular Phillips screwdriver
4. Tektronix 475 oscilloscope or equivalent (100 MHz)
5. KLAD pack
6. scope, digital voltmeter
7. H4080 Ethernet Loopback Connector

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

4.0 INSTALLATION PROCEDURE

4.1 Pre-Installation Checkout

Before performing the installation, verify that the presently configured system is operating properly to preclude the possibility of current system problems being ascribed to the NIA20 after its installation.

1. Remove all customer media, to minimize the possibility of corrupting customer data.
2. Mount the supplied KLAD pack, bring up the diagnostic monitor, and run the "B" string to verify that the system is working properly.
3. Power-down the system.
4. Verify that the system has a M8532-YA board installed. If not, replace the currently installed M8532 with a M8532-YA.
5. RH20 positions 4 and 5 will be used for the NIA20. If there is an RH20 in position 4, remove it. If there is an RH20 in position 5, leave it temporarily installed and perform diagnostic DFRHB to verify the reliability of the backplane wiring. If there is no RH20 in position 5, relocate a module from one of the other RH20 positions to position 5.
6. Power-up the system and run diagnostic DFRHB. This verifies that the backplane wiring of RH20 position 5 is functional. Power-down the system and reinstall the RH20 in its original position.
7. Perform diagnostic DFRHB also in RH20 position 7 to verify the reliability of existing backplane wiring in RH20 positions 6 and 7, before implementing any NIA20 modifications.
8. Power-down the system and reinstall the RH20 in its original position.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

4.2 Backplane Wire Adds

For the installation of the NIA20, twenty-four new wires must be added to RH20 backplane positions 4 and 5. An examination of the RH20 backplane must be performed to confirm the physical addition of the wire wraps listed in Table 3-3. A CHECK column is included in the table for the wire installer to record installation progress.

To prepare the wire adds, strip approximately 1 inch of insulation from the wire to allow sufficient turns to be made on the wire wrap post. After each wire is added, enter a check in the blank space adjacent to the wire listing in Table 3-3.

To assure the reliability of the new wiring, an ohmmeter check of each new wire add should be performed by a person other than the wire installer.

Table 3-3. NIA20 in KL10-E Wire Adds

Signal Name	From	To/From To	Check
EBUS D11 L	B10N1	B13B1 B19B1	
EBUS D12 L	C10L2	B13B2 B19B2	
EBUS D13 L	C10K2	B13U1 B19U1	
EBUS PARITY L	C10T2	C13B1 C19B1	
EBUS P100 L	C12H2	C13N1 C19N1	
EBUS PARITY ACTIVE L	C12L1	C13B2 C19B2	
MPR7 MMBUSCTFLD01 H	C14L1	A15R2	
MPR7 MMBUSCTFLD08 H	C14F1	F15A1	
MPR7 MTIMEFLD H	A14J2	A15E1	
CB11 CLK2 L	C14P1	A15D2	
CB12 CLK4 L	C14K2	A15S2	
CB12 CCCHANERR L	B14J1	B15A1	
MPR7 MMBUSCTFLD01 H	C20H2	A21R2	
MPR7 MMBUSCTFLD08 H	C20F1	F21A1	
MPR7 MTIMEFLD H	A20J2	A21E1	
CB11 CLK2 L	C20P1	A21D2	
CB12 CLK4 L	C20K2	A21S2	
CB12 CCCHANERR L	B20J1	B21A1	

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

4.3 Installation Of Port Modules

Protective backing is placed on the lower third non-component side of each port module and the upper third of the non-component side of the M3002. As the modules are inserted and/or removed, the protective backing protects the Mbus and PL1 bus cables. Note that the protective backing should not interfere with the card guide or cover the gold finger contacts on the module. Insert the port modules as follows:

1. Connect Mbus cable, DEC part number 7019270-1J. Be sure to orient the cable so that the flat wire comes out of the cable header away from the board, as shown in Figure 3-3.
2. Insert the M3001 EBus Interface/Port ALU Module in the rightmost slot of RH20 position number 5 (slot 19, looking at the backplane from the module side). The arrow on cable should be aligned with the arrow on the board connector.
3. Connect the Mbus cable to the M3002 Port Microprocessor Module as shown in Figure 3-3.
4. Insert the Module M3002 in slot 20 to the left of the installed M3001 as shown in Figure 3-3.
5. Connect the Mbus cable to the M3003 module as shown in Figure 3-3.
6. Install the M3003 CBUS/PL1 Interface Module in slot 21 which is located to the left of the installed M3002.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

TITLE NIA20-A INSTALLATION PROCEDURE

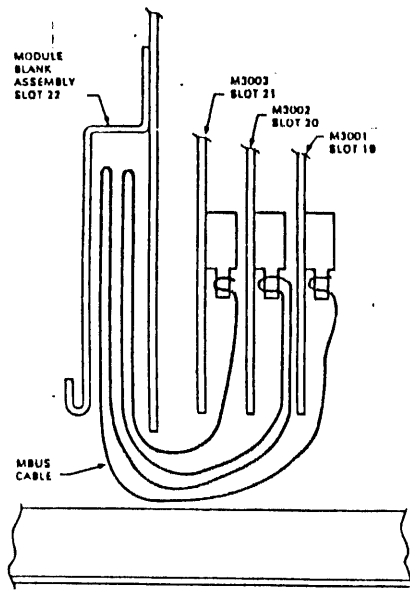


Figure 3-3. MBus Cable Interboard Connection, Top View

SIZE A	CODE SP	NUMBER NIA20-A-1	REV B
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TITLE NIA20-A INSTALLATION PROCEDURE

7. Install the Module Blank Assembly, DEC part Number 7019266-00. In RH20 position 4, slot 22. This assembly blocks slots 22, 23, and 24. It prevents modules from being inserted into RH20 position 4 and provides a baffle for system cabinet airflow.
8. Perform an ohmmeter check between PT17U and ground to verify that there are no shorts to ground.
9. Fold the MBus cable into the Module Blank Assembly as shown in Figure 3-3.
10. Close the module door.
11. Attach the self-sticking Module Utilization Decal, DEC part number 3622344-OZ, on the upper rear Baffle Panel.
12. Power Up the KI.10.
13. Readjust the existing +5 volt power supply to 5.0 +/- 0.25 V. This adjustment is located on H7420 number 1 in H744 number 4. The location of this regulator is the second slot over from the circuit breaker. The voltage is monitored at +5F, between PT17U and ground.
14. Type MR (CR) with KLDCP loaded and running, then type FX1 (CR) in response to the command prompt, as shown below:


```

      > MR (CR)
      > FX1 (CR)
      
```
15. Deskw the port modules using a Tektronix 475 (or equivalent 100 MHz minimum) oscilloscope by performing the following steps (see Figure 3-4):
16. Connect channel 1 of the oscilloscope to MTR MBOX CLK II, 033P1, on the CPU backplane. Use a ground Clip.

SIZE A	CODE SP	NUMBER NIA20-A-1	REV B
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TITLE NIA20-A INSTALLATION PROCEDURE

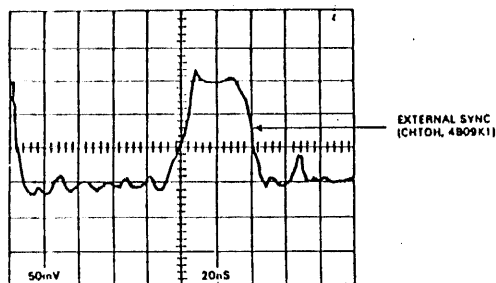


Figure 3-4A. External Sync (CHT0-H)

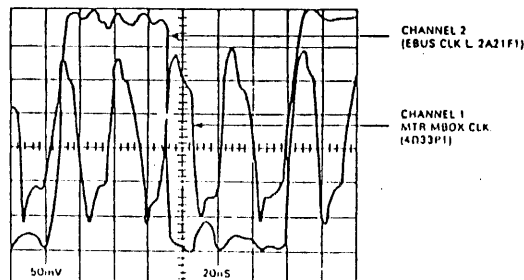


Figure 3-4B. EBUS CLK L and MTR MBOX CLK

Figure 3-4 NIA20 Deskw Timing

SIZE A	CODE SP	NUMBER NIA20-A-1	REV B
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4.4 Power Supply Regulator Installation.

Three H7420 power supplies are located on the I/O Cabinet side wall as shown in Figure 3-1. The H7440 regulator to be added is installed in the upper H7420 power supply location. This additional +5 volt regulator is required to support the NIA20 card cage and is installed as follows (see Figure 3-5):

1. Remove the spare slot filler panel from slot 5 of the H7420 number 1 power supply. Save all existing hardware.
2. Take the new H7440 regulator from the kit and install the H7440 in slot 5 of H7420 number 1, using two screws on top and one thumb screw at the bottom. Note that some systems may use H744 or H7440 regulators.

SIZE A	CODE SP	NUMBER NIA20-A-1	REV B
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TITLE NIA20-A INSTALLATION PROCEDURE FOR KL10E

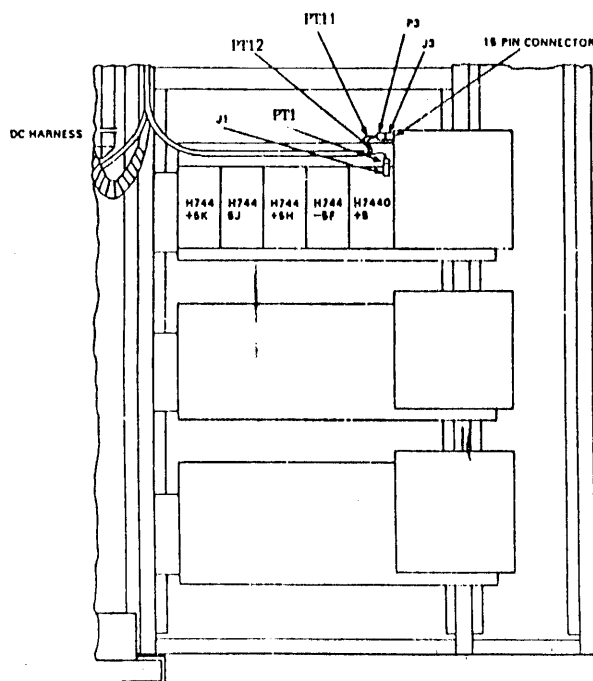


Figure 3-5. H7420 Power Supply

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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TITLE NIA20-A INSTALLATION PROCEDURE

17. Set the time base to 20 ns.
18. Set channel 1 vertical gain to 0.5 V/division. Set the ground reference to 1.3 volts above the horizontal center level of the oscilloscope. (ATR MBOX CLK H is an ECL signal.)
19. Set the oscilloscope sync to positive external.
20. Connect external sync input to CHTO H, 4809K1 on the CPU backplane. Use a ground clip.
21. Connect channel 2 to CD51, EBUS CLK L, 2A21F1 on the I/O backplane. Set the channel 2 vertical gain to 0.5 V/division. Use a ground clip. To measure TTL voltages, set the ground reference to 1.5 volts below the horizontal center line of the oscilloscope.
22. Press the Trigger View Switch of the oscilloscope and display the external sync. Adjust the display, so that the rising edge of the external sync aligns with the vertical center line of the oscilloscope.
23. Display MBOX CLK H, channel 1. Identify the rising edge of MBOX CLK H that occurs prior to the vertical center line of the oscilloscope. Display channel 1 and channel 2.
24. Put the KL10-E in the override fault state. Remove the I/O rear door to access the I/O backplane.
25. Locate the 3rd from bottom potentiometer on the clock module (M8559) in slot 12 of the I/O backplane. Using this potentiometer, adjust the FALLING edge of channel 2, EBUS CLK L so that it crosses the RISING edge of MBOX CLK H. This crossing occurs on the horizontal center line of the oscilloscope.
26. Disconnect all probes.
27. Mount the KLAD pack on the front end RP06.
28. Load and run diagnostic DFPTA to verify proper functioning of the port modules. If the modules fail, troubleshoot as directed by the diagnostic. If the modules are functioning properly, continue with the installation.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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TITLE NIA20-A INSTALLATION PROCEDURE

4.5 Installation Of NIA20 Card Cage/Internal Cable

NOTES

1. When a C120 is installed, the NIA20 is mounted as shown in Figure 3-1.
2. In the event the CPU Cabinet side panel cannot be removed, the installation of the Current Limiter (refer to subsection 3.4.5.1) should be performed before installing the card cage to avoid making the location inaccessible.

To install the NIA20 card cage shown in Figure 3-6 and the internal NIA20 cable, perform the following instructions:

1. Install the two NIA20 mounting brackets shown in Figure 3-7 as follows:
 - a) Remove and reposition any tie-wrapped cables from the right-side frame member of the CPU Cabinet (as viewed from the front) to accommodate the NIA20 mounting brackets and card cage.
 - b) Install a total of 8 U-Nuts (Tinnerman nuts), DEC part number 9007786-00, on the right-side frame members of the CPU cabinet (viewed from the front) in preparation for NIA20 card cage and Current Limiter installation. Insert the Tinnerman nuts into frame holes 5, 11, 15 and 52 on each vertical side frame member counting up from the bottom of the cabinet (see Figure 3-7). Four Tinnerman nuts are inserted into each vertical side frame member.
 - c) Use four 10/32 one-half inch Phillips panhead machine screws, DEC part number 9006073-01 and four No. 10 star lock washers, DEC part number 9007651-00 on each vertical side of the frame.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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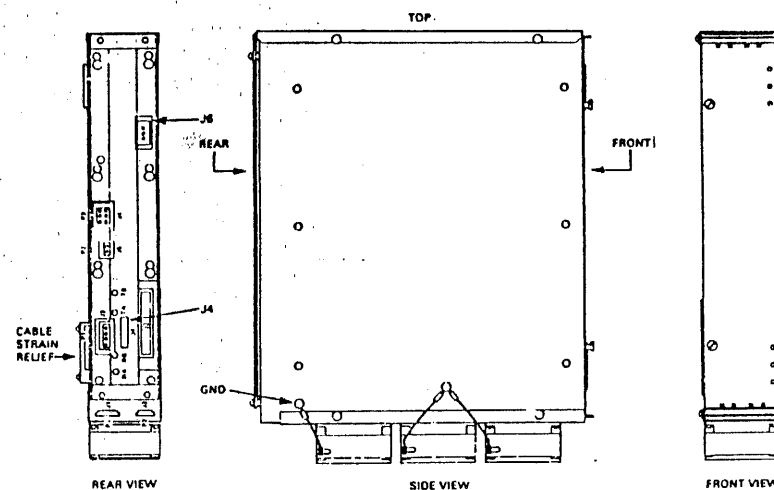


Figure 3-6. NIA20 Card Cage Views

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE NIA20-A INSTALLATION PROCEDURE			
2. Locate the NIA20 internal cable strain relief (white) on the rear left-side of NIA20 card cage (see Figure 3-6). Because of the inaccessible location of this strain relief once the card cage is mounted, the internal cable is routed through it before installing the card cage. 3. Locate the three-foot internal NIA20 cable, DEC part number 7019893-2L. 4. Prepare the internal NIA20 cable for installation by positioning a stick mount on the right-side frame member of the CPU Cabinet (viewed from the front), above the reserved C120 connectors on the Bracket Interface (see Figure 3-9). 5. Route the three-foot internal NIA20 cable through the white plastic strain relief on the NIA20 card cage. Allow enough slack to connect the internal cable to the NIA20 card cage backplane and tighten the strain relief. 6. Connect the internal NIA20 cable to the J4 connector (see Figure 3-6) on the rear of the NIA20 card cage and route the cable as shown in Figure 3-1. The cable connector engages a detent when properly seated. 7. Mount the NIA20 card cage on the two NIA20 mounting brackets (see Figure 3-7), using a total of four 10/32 screws, external lockwashers, and flat washers in frame holes 15 and 52. Hang the NIA20 card cage on the top two screws, then install the bottom two screws. 8. Install the NIA20 card cage ground cable (see Figure 3-6) as follows: a) Install a Tinnerman nut in hole 11 of the left side frame member in the CPU cabinet (viewed from the rear). b) Connect the ground cable on the left-side frame member (viewed from the rear) by inserting a screw and using a starwasher on each side of the ground cable. c) Attach a ground label, DEC part number 3613272-00, closest to hole 1. 9. Run the internal NIA20 cable to the previously positioned stick mount and insert its other end into the rear J1 connector of the NIA20 Current Limiter.			
SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE NIA20-A INSTALLATION PROCEDURE			
Figure 3-7. NIA-20 Card Cage in KL10-E			
SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE NIA20-A INSTALLATION PROCEDURE			
4.5.1 Installation Of NIA20 Current Limiter - The NIA20 Current Limiter, DEC part number 5415695-01 is pre-installed on the Bracket Interface, DEC part number 7428312-01, as shown in Figure 3-8. The Bracket Interface, NIA20 internal cable, and BNE3 external cable are installed at the site as follows: 1. Locate the Bracket Interface which is to be located on the lower right-side frame holes 5 and 11 of the CPU Cabinet (viewed from the front). Four 10-32 screws, external lockwashers, and flat washers are used to install the Bracket Interface. 2. Connect the internal cable to the rear J1 connector and also connect the BNE3 external (Ethernet Transceiver) cable to the front P1 connector located on the NIA20 Current Limiter (see Figure 3-8).			
Figure 3-8. NIA20 Current Limiter			
SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE NIA20-A INSTALLATION PROCEDURE			
4.5.2 Harness Installation - The following list of harnesses to be installed are: 1. DC power harness (2 sections) 2. vane switch cable 3. DC voltage monitor cables 4. fan ac cable and power cord 5. PL1 bus 6. External BNE3 NIA20 cable Figure 3-9 shows a diagram of the harness and cable interconnections. The above harnesses are installed as follows: 1. Install tie wraps approximately eight inches apart on all harnesses. When routing cables close to internal assemblies, use spiral wire wrap to protect the cables from edges.			
SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLENIA20-A INSTALLATION PROCEDURE

9. Remove the original KL CPU vane switch cable (P4) and connect this to the NIA20 vane switch cable connector J1.

10. Connect P2 of the vane switch cable to the original KL CPU vane switch assembly (see Figures 3-1 and 3-12).

11. Overlay the CPU/NIA20 air flow fault decal over the existing CPU air fault message decal on the 863 Fault Switch.

12. Locate the DC voltage monitor cable, DEC part number 7020352-00 (see Figure 3-13). Connect P2 of the DC voltage monitor cable to J5 on the NIA20 card cage and connect the other cable end (P1) into connector J1 on the new DC voltage monitor board.

13. Locate the switches on the DC voltage monitor board, DEC part number 5414506-01. Only Switch S1 should be ON, while all other DC voltage monitor board switches should be OFF.

14. Insert the DC voltage monitor board into the +5 volt slot of the DC voltage monitor card cage.

15. Attach the monitor panel decal, DEC part number 3621501-02, to indicate the slot used for the NIA20 DC voltage monitor board.

16. Connect the remaining single orange wire of the DC voltage monitor cable to a location adjacent to the existing orange wire on the DC voltage monitor board zone +5L.

17. Tie wrap the DC voltage monitor and vane switch harnesses to the DC power cable. Use adhesive-backed square cable mounts to support the harness.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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CONTINUATION SHEET

TITLENIA20-A INSTALLATION PROCEDURE

The diagram illustrates the reconnection of the vane switch cable. In the 'BEFORE' state, the cable is connected to a connector with a P4 label. In the 'AFTER' state, the cable is connected to J1 on the CPU backplane, and the other end (P2) is connected to the vane switch connector.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLENIA20-A INSTALLATION PROCEDURE

The diagram shows the DC voltage monitor cable assembly. The cable (7020352-00) has two connectors: P1 and P2. P2 is connected to J5 on the card cage. P1 is connected to J1 on the DC voltage monitor board. An orange wire is connected to a location adjacent to the zone +5L on the DC voltage monitor board.

Figure 3-13. DC Voltage Monitor Cable

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLENIA20-A INSTALLATION PROCEDURE

18. Locate the fan ac cable, DEC part number 7019274-06 (120 Vac 60 Hz) or 7020539-06 (240 Vac 50 Hz), and the power cord, DEC part number 9107673-06 (120 Vac 60 Hz) or 7011432-02 (240 Vac 50 Hz), (see Figure 3-14). Connect the fan ac cable connector P2 to connector J2 on the NIA20 card cage and then join the fan ac cable to the power cord. Insert the other end of the power cord into any available switched outlet of the 861 power controller. Connect the ground wire to the adjacent side ground screw on the NIA20 card cage. Use a star washer to ensure a good electrical connection.

19. Install a Tinnerman nut in hole 11 on the frame and attach the ground cable from the NIA20 card cage to the frame. Use two star washers to ensure a good electrical connection.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

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TITLE NIA20-A INSTALLATION PROCEDURE

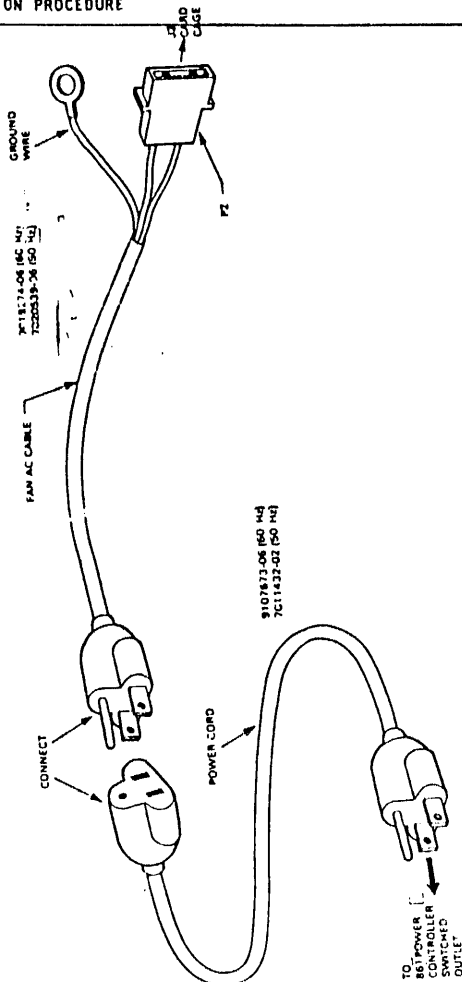


Figure 3-14. Fan AC Cable And Power Cord

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

DEC FORM NO EN-01022-16-N370-(381)
DRA 108

SHEET 33 OF 35

TITLE NIA20-A INSTALLATION PROCEDURE

20. Locate Cable Support panel, DEC part number 7428311-00 (see Figure 3-1). Install the smooth side of panel (used to support the cable harnesses) toward the rear when facing the CPU cabinet. Use four of each: Tinnerman nuts, screws, flat washers, and lock washers in holes 36 and 39.
21. Locate the PLI cable, DEC part number BC06R-08 (see Figure 3-1 for cable route and Figure 3-9 for cable connection). Connect one end of the PLI cable (identified by a red line imprinted on top of the cable) to module M3003 and route through the cable strain relief on the NIA20 card cage. The other end of the PLI cable (identified by a red line imprinted on bottom of the cable) to connector J3 on the NIA20 card cage (see Figure 3-6). To secure the PLI cable, install adhesive foam, DEC part number 1213716-00, within each of the 4 flat cable clamps. Install one cable clamp on the side of the CPU card cage and three cable clamps across rear of cable support panel.
22. Route the cables as shown in Figure 3-1.
23. Replace the CPU Cabinet door.

4.6 Installation Of KL10 Adapter Board And Blank Module Assembly

The KL10 to NI Adapter Board, DEC part number L0072-00, and the Blank Module Assembly, DEC part number 7014103-00, are installed in the NIA20 card cage as follows:

1. The KL10 to NI Adapter Board and the Blank Module Assembly are installed into the NIA20 card cage by opening its front hinged-end panel door.
2. Install the KL10 to NI Adapter Board (L0072-00) in the left hand slot.
3. Install the Blank Module Assembly (7014103-00) in the adjacent slot to the right.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

DEC FORM NO EN-01022-16-N370-(381)
DRA 108

SHEET 34 OF 35

TITLE NIA20-A INSTALLATION PROCEDURE

4.7 Checkout

The physical part of the installation is complete at this point. All that remains is to verify that the system runs properly in the new configuration. Perform the following steps to verify the installation.

1. Verify that the KL10-E is no longer in the override fault state.
2. Power up the KL10-E.
3. Readjust the 5 volt power supply to 5.0 +/- 0.25 V. This adjustment is located on power supply H7420 number 1, regulator H7440 slot 5 (see Figure 3-5). This regulator is located nearest the H7420 power supply breaker. The voltage is monitored at the black and red wires on connector J1 of the NIA20 card cage (see Figure 3-7).

4. Load and run diagnostic DFPTA for a least 5 passes in Exec mode.

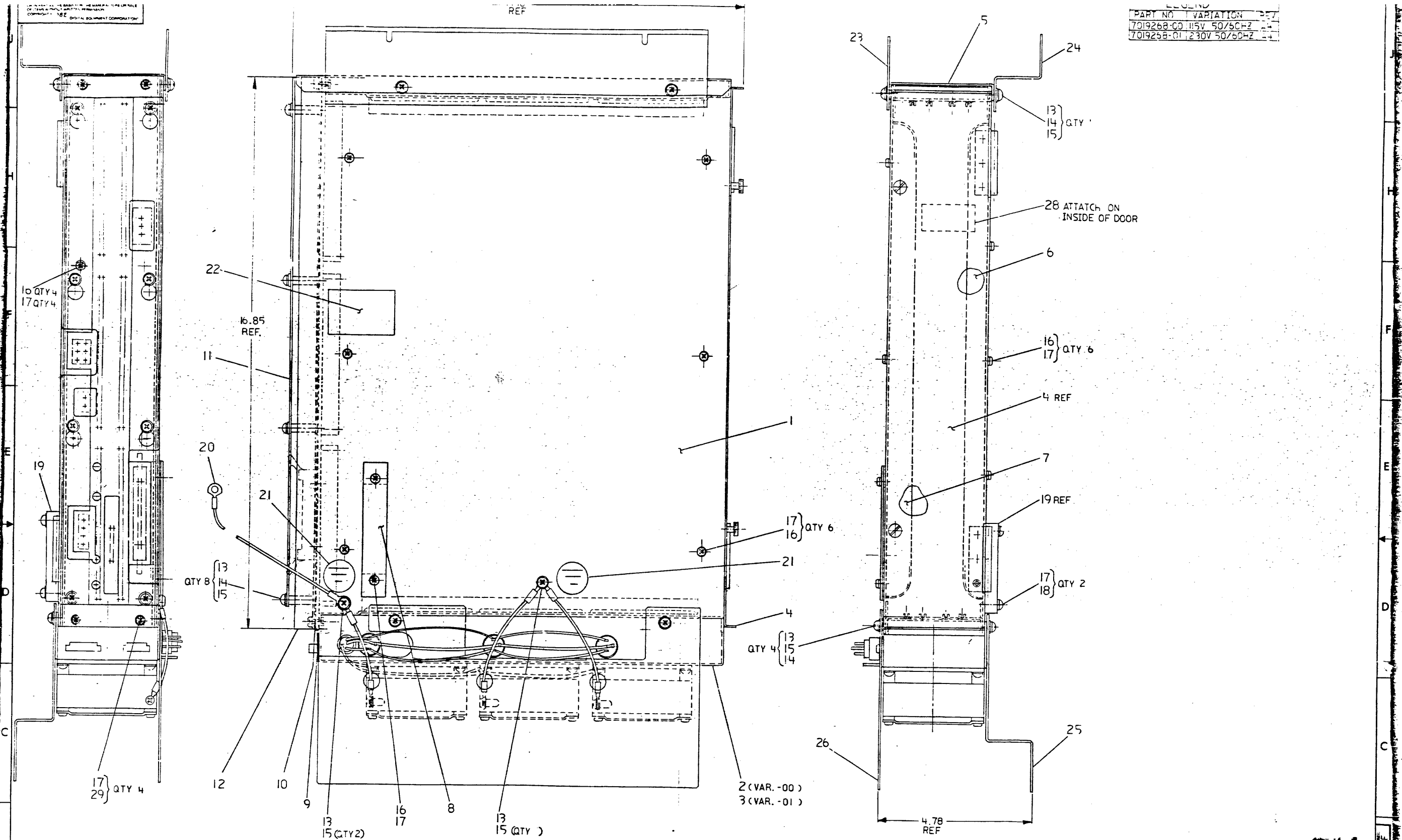
NOTE: Certain configurations may require the use of an H4080 Ethernet Loopback Connector in place of existing Ethernet Transceiver.

5. Load and run diagnostic DFNIE for at least 5 passes in Exec mode.
6. Load and run diagnostic DFNIA for at least 5 passes in Exec mode.
7. Enable the operating system
8. Run diagnostics DFPTA in user mode for at least 5 passes.
9. Run diagnostics UETP NIA20 Test in user mode for at least 4 hours.
10. Disable the operating system.
11. Remove all Field Service packs and tapes from the customers system and store in a secure area.
12. Transfer/Sign-off system to customer's authorized representative.

SIZE	CODE	NUMBER	REV
A	SP	NIA20-A-1	B

DEC FORM NO EN-01022-16-N370-(381)
DRA 108

SHEET 35 OF 35



CAUTION: OFF SHEET PARTS LIST EXIST
SEE K-PL-7019268-G-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 X + .1 .XX + .02 .XXX + .006		ANGLES ± 0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE) ☐ 0 - 1 ☐ 1 - 2 ☒ 2 - 3 ☐ 3 - 4 ☐ 4 - 6 ☐ 6 - 10 ☐ 10 - 30 ☐ 30 - 60 ☐ 60 - 120 ☐ 120 - 240 ☐ 240 - 480 ☐ 480 - 960 ☐ 960 - 1920 ☐ 1920 - 3840 ☐ 3840 - 7680 ☐ 7680 - 15360 ☐ 15360 - 30720 ☐ 30720 - 61440 ☐ 61440 - 122880 ☐ 122880 - 245760 ☐ 245760 - 491520 ☐ 491520 - 983040 ☐ 983040 - 1966080 ☐ 1966080 - 3932160 ☐ 3932160 - 7864320 ☐ 7864320 - 15728640 ☐ 15728640 - 31457280 ☐ 31457280 - 62914560 ☐ 62914560 - 125829120 ☐ 125829120 - 251658240 ☐ 251658240 - 503316480 ☐ 503316480 - 1006632960 ☐ 1006632960 - 2013265920 ☐ 2013265920 - 4026531840 ☐ 4026531840 - 8053063680 ☐ 8053063680 - 16106127360 ☐ 16106127360 - 32212254720 ☐ 32212254720 - 64424509440 ☐ 64424509440 - 128849018880 ☐ 128849018880 - 257698037760 ☐ 257698037760 - 515396075520 ☐ 515396075520 - 1030792151040 ☐ 1030792151040 - 2061584302080 ☐ 2061584302080 - 4123168604160 ☐ 4123168604160 - 8246337208320 ☐ 8246337208320 - 16492674416640 ☐ 16492674416640 - 32985348833280 ☐ 32985348833280 - 65970697666560 ☐ 65970697666560 - 131941395333120 ☐ 131941395333120 - 263882790666240 ☐ 263882790666240 - 527765581332480 ☐ 527765581332480 - 1055531162664960 ☐ 1055531162664960 - 2111062325329920 ☐ 2111062325329920 - 4222124650659840 ☐ 4222124650659840 - 8444249301319680 ☐ 8444249301319680 - 16888498602639360 ☐ 16888498602639360 - 33776997205278720 ☐ 33776997205278720 - 67553994410557440 ☐ 67553994410557440 - 135107988821114880 ☐ 135107988821114880 - 270215977642229760 ☐ 270215977642229760 - 540431955284459520 ☐ 540431955284459520 - 1080863910568919040 ☐ 1080863910568919040 - 2161727821137838080 ☐ 2161727821137838080 - 4323455642275676160 ☐ 4323455642275676160 - 8646911284551352320 ☐ 8646911284551352320 - 17293822569102704640 ☐ 17293822569102704640 - 34587645138205409280 ☐ 34587645138205409280 - 69175290276410818560 ☐ 69175290276410818560 - 138350580552821637120 ☐ 138350580552821637120 - 276701161105643274240 ☐ 276701161105643274240 - 553402322211286548480 ☐ 553402322211286548480 - 1106804644422573096960 ☐ 1106804644422573096960 - 2213609288845146193920 ☐ 2213609288845146193920 - 4427218577690292387840 ☐ 4427218577690292387840 - 8854437155380584775680 ☐ 8854437155380584775680 - 17708874310761169551360 ☐ 17708874310761169551360 - 35417748621522339102720 ☐ 35417748621522339102720 - 70835497243044678205440 ☐ 70835497243044678205440 - 141670994486089356410880 ☐ 141670994486089356410880 - 283341988972178712821760 ☐ 283341988972178712821760 - 566683977944357425643520 ☐ 566683977944357425643520 - 1133367955888714851287040 ☐ 1133367955888714851287040 - 2266735911777429702574080 ☐ 2266735911777429702574080 - 4533471823554859405148160 ☐ 4533471823554859405148160 - 9066943647109718810296320 ☐ 9066943647109718810296320 - 18133887294219437620592640 ☐ 18133887294219437620592640 - 36267774588438875241185280 ☐ 36267774588438875241185280 - 72535549176877750482370560 ☐ 72535549176877750482370560 - 145071098353755500964741120 ☐ 145071098353755500964741120 - 290142196707511001929482240 ☐ 290142196707511001929482240 - 580284393415022003858964480 ☐ 580284393415022003858964480 - 1160568786830044007717928960 ☐ 1160568786830044007717928960 - 2321137573660088015435857920 ☐ 2321137573660088015435857920 - 4642275147320176030871715840 ☐ 4642275147320176030871715840 - 9284550294640352061743431680 ☐ 9284550294640352061743431680 - 18569100589280704123886863360 ☐ 18569100589280704123886863360 - 37138201						

REVISION HISTORY					
E	ECO NUMBER	REV			
1	RELEASED	D			
2	10/27/78	F			
Name (Last, First MI) CAHILL, JAMES JAMES C. CAHILL JR. 120 HILCOM F More Chgo Ill 4-21-77 J. TIVNAN Chicago, Ill 27-1968					

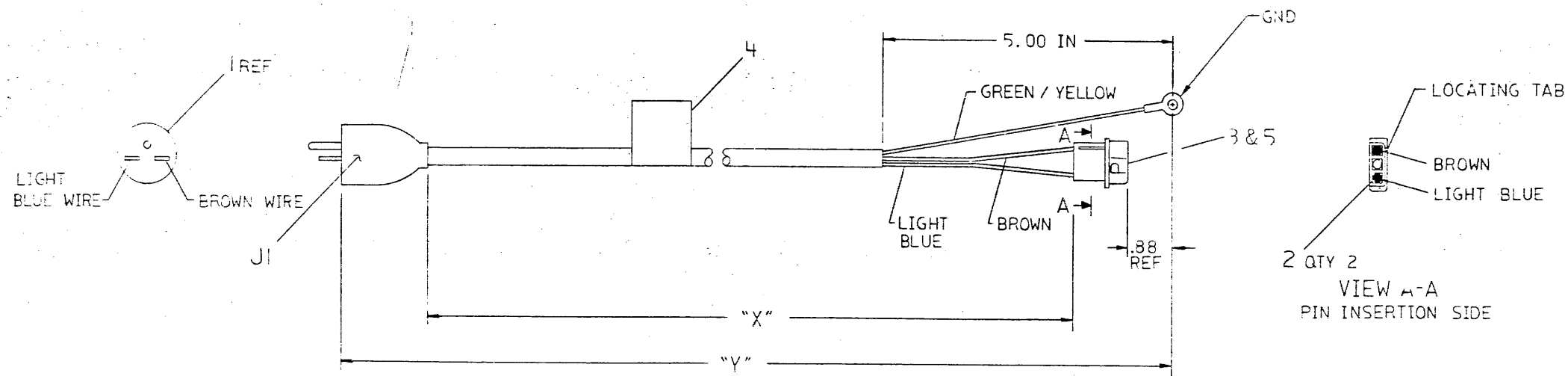
LINE ITEM		TOP DOCUMENT		PART NUMBER		REV	DESCRIPTION	VARIATION REVISION LEVEL:		QTY	PER	VARIATION
								A4	A4	00	01	
1	1	D-1A-7018178-0-0		7018178-00			WELDMENT, CARD CAGE			1	1	
2	2	D-1A-7018941-0-0		7018941-00			PLATE, FAN ASSY			1	-	
3	3	D-1A-7018941-0-0		7018941-01			PLATE, FAN ASSY			-	1	
4	4	D-AD-7020492-0-0		7020492-00			DOOR, REAR ASSY			1	1	
5	5	D-1A-7018179-0-0		7018179-00			WELDMENT, COVER			1	1	
6	6	E-1A-7424873-0-0		7424873-00			PANEL, FILLER			1	1	
7	7	E-1A-7424873-0-0		7424873-01			PANEL, FILLER			1	1	
8	8	E-AD-7018181-0-0		7018181-00			STRAIN RELIEF ASSY			1	1	
9	9			5414793-00			BACKPLANE, IPAZO			1	1	
10	10	C-MD-7424875-0-0		7424875-01			GASKET			1	1	
11	11	E-MD-7424870-0-0		7424870-01			COVER, BACKPLANE			1	1	
12	12	E-1A-7424871-0-0		7424871-01			STIFFENER, BACKPLANE			1	1	
13	13			9006038-01			SCREW, MACH PAN PHIL	8-		18	18	
14	14			9006660-00			WASHER, FLAT	SST		16	16	
15	15			9008151-00			WASHER, LOCK	EXTERNAL STEEL		20	20	
16	16			9006022-01			SCREW, MACH PAN PHIL	6-		18	18	
17	17			9007649-00			WASHER, LOCK	EXTERNAL STEEL		24	24	
18	18			9006025-01			SCREW, MACH PAN PHIL	6-		2	2	
19	19	C-MD-7427436-0-0		7427436-01			STRAINRELIEF, BLOCK			1	1	
20	20			1213756-16			GROUND STRAP			1	1	
21	21			3613272-00		B	LABEL, ADH BACK, MYLAR CAP			1	1	
22	22			3616606-00		A	LABEL, TOP LEVEL STATUS			2	2	
23	23	C-1A-7428223-0-0		7428223-01			PLATE, TOP			1	1	
24	24	C-MD-7428225-0-0		7428225-01			BRACKET, TOP			1	1	
25	25	C-MD-7428224-0-0		7428224-01			BRACKET, BOTTOM			1	1	
26	26	D-1A-7428221-0-0		7428221-01			PLATE, BOTTOM			1	1	
27	27			3621500-01			*** THIS ITEM IS NOT USED ***			-	-	
28	28			3621501-01			LABEL, MODULE LOCATION C120			1	1	
29	29			9006024-01			SCREW, MACH PAN PHIL	6-		4	4	

REVISION HISTORY			BASIC PART NO: 7019268		DRN: W. ALLEN		DATE: 9 OCT 81		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A									
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PC	7019268-MR001	E	(A) 00,01						CARD CAGE ASSY			
PC	C120-MR01A	F							C120			
			(B)		DES.ENG: P. CAPPABIANCA		DATE: 14-APR-83		DOCUMENT NUMBER			
			(C)						SIZE		CODE NUMBER	
			(D)		RESP.ENG.: P. CAPPABIANCA		DATE: 14-APR-83		K		PL 7019268-0-DBF	
			(E)		MFG.ENG.: S. ALMEIDA		DATE: 13-APR-83		RELEASE DATE: 28-FEB-85			
			(F)		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
					E-AD-7019268-0-0				25878F.PLS		02	

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LEGEND			
PART NO.	DIM. "X" VAR.	DIM. "Y" (RECUT) REF.	REV.
7020539-06	5 FT. 9 IN. ± 10 IN.	6 FT. ± 5 IN.	B1



CAUTION: OFF SHEET PARTS LIST EXIST
SEE K-PL-7020539-0-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	
X = ± .1 XX = ± .02 XXX = ± .005	SURFACE QUALITY MICROINCHES	DIMENSION RANGE IN INCHES	
		OVER 0 TO 0.2	OVER 0.2 TO 0.4
		OVER 0.4 TO 0.6	OVER 0.6 TO 0.8
		OVER 0.8 TO 1.0	OVER 1.0 TO 1.2
		OVER 1.2 TO 1.4	OVER 1.4 TO 1.6
		OVER 1.6 TO 1.8	OVER 1.8 TO 2.0
		OVER 2.0 TO 2.2	OVER 2.2 TO 2.4
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		OVER 7.6 TO 7.8	OVER 7.8 TO 8.0
		OVER 8.0 TO 8.2	OVER 8.2 TO 8.4
		OVER 8.4 TO 8.6	OVER 8.6 TO 8.8
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		OVER 9.2 TO 9.4	OVER 9.4 TO 9.6
		OVER 9.6 TO 9.8	OVER 9.8 TO 10.0
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		OVER 10.8 TO 11.0	OVER 11.0 TO 11.2
		OVER 11.2 TO 11.4	OVER 11.4 TO 11.6
		OVER 11.6 TO 11.8	OVER 11.8 TO 12.0
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		OVER 12.4 TO 12.6	OVER 12.6 TO 12.8
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		OVER 28.0 TO 28.2	OVER 28.2 TO 28.4
		OVER 28.4 TO 28.6	OVER 28.6 TO 28.8
		OVER 28.8 TO 29.0	OVER 29.0 TO 29.2
		OVER 29.2 TO 29.4	OVER 29.4 TO 29.6
		OVER 29.6 TO 29.8	OVER 29.8 TO 30.0
		OVER 30.0 TO 30.2	OVER 30.2 TO 30.4
		OVER 30.4 TO 30.6	OVER 30.6 TO 30.8
		OVER 30.8 TO 31.0	OVER 31.0 TO 31.2
		OVER 31.2 TO 31.4	OVER 31.4 TO 31.6
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		OVER 32.4 TO 32.6	OVER 32.6 TO 32.8
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		OVER 33.6 TO 33.8	OVER 33.8 TO 34.0
		OVER 34.0 TO 34.2	OVER 34.2 TO 34.4
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		OVER 38.0 TO 38.2	OVER 38.2 TO 38.4
		OVER 38.4 TO 38.6	OVER 38.6 TO 38.8
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		OVER 39.2 TO 39.4	OVER 39.4 TO 39.6
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		OVER 41.2 TO 41.4	OVER 41.4 TO 41.6
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		OVER 42.0 TO 42.2	OVER 42.2 TO 42.4
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		OVER 49.6 TO 49.8	OVER 49.8 TO 50.0
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		OVER 50.8 TO 51.0	OVER 51.0 TO 51.2
		OVER 51.2 TO 51.4	OVER 51.4 TO 51.6
		OVER 51.6 TO 51.8	OVER 51.8 TO 52.0
		OVER 52.0 TO 52.2	OVER 52.2 TO 52.4
		OVER 52.4 TO 52.6	OVER 52.6 TO 52.8
		OVER 52.8 TO 53.0	OVER 53.0 TO 53.2
		OVER 53.2 TO 53.4	OVER 53.4 TO 53.6
		OVER 53.6 TO 53.8	OVER 53.8 TO 54.0
		OVER 54.0 TO 54.2	OVER 54.2 TO 54.4
		OVER 54.4 TO 54.6	OVER 54.6 TO 54.8
		OVER 54.8 TO 55.0	OVER 55.0 TO 55.2
		OVER 55.2 TO 55.4	OVER 55.4 TO 55.6
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		OVER 56.8 TO 57.0	OVER 57.0 TO 57.2
		OVER 57.2 TO 57.4	OVER 57.4 TO 57.6
		OVER 57.6 TO 57.8	OVER 57.8 TO 58.0
		OVER 58.0 TO 58.2	OVER 58.2 TO 58.4
		OVER 58.4 TO 58.6	OVER 58.6 TO 58.8
		OVER 58.8 TO 59.0	OVER 59.0 TO 59.2
		OVER 59.2 TO 59.4	OVER 59.4 TO 59.6
		OVER 59.6 TO 59.8	OVER 59.8 TO 60.0
		OVER 60.0 TO 60.2	OVER 60.2 TO 60.4
		OVER 60.4 TO 60.6	OVER 60.6 TO 60.8
		OVER 60.8 TO 61.0	OVER 61.0 TO 61.2
		OVER 61.2 TO 61.4	OVER 61.4 TO 61.6
		OVER 61.6 TO 61.8	OVER 61.8 TO 62.0
		OVER 62.0 TO 62.2	OVER 62.2 TO 62.4
		OVER 62.4 TO 62.6	OVER 62.6 TO 62.8
		OVER 62.8 TO 63.0	OVER 63.0 TO 63.2
		OVER 63.2 TO 63.4	OVER 63.4 TO 63.6
		OVER 63.6 TO 63.8	OVER 63.8 TO 64.0
		OVER 64.0 TO 64.2	OVER 64.2 TO 64.4
		OVER 64.4 TO 64.6	OVER 64.6 TO 64.8
		OVER 64.8 TO 65.0	OVER 65.0 TO 65.2
		OVER 65.2 TO 65.4	OVER 65.4 TO 65.6
		OVER 65.6 TO 65.8	OVER 65.8 TO 66.0
		OVER 66.0 TO 66.2	OVER 66.2 TO 66.4
		OVER 66.4 TO 66.6	OVER 66.6 TO 66.8
		OVER 66.8 TO 67.0	OVER 67.0 TO 67.2
		OVER 67.2 TO 67.4	OVER 67.4 TO 67.6
		OVER 67.6 TO 67.8	OVER 67.8 TO 68.0
		OVER 68.0 TO 68.2	OVER 68.2 TO 68.4
		OVER 68.4 TO 68.6	OVER 68.6 TO 68.8
		OVER 68.8 TO 69.0	OVER 69.0 TO 69.2
		OVER 69.2 TO 69.4	OVER 69.4 TO 69.6
		OVER 69.6 TO 69.8	OVER 69.8 TO 70.0
		OVER 70.0 TO 70.2	OVER 70.2 TO 70.4
		OVER 70.4 TO 70.6	OVER 70.6 TO 70.8
		OVER 70.8 TO 71.0	OVER 71.0 TO 71.2
		OVER 71.2 TO 71.4	OVER 71.4 TO 71.6
		OVER 71.6 TO 71.8	OVER 71.8 TO 72.0
		OVER 72.0 TO 72.2	OVER 72.2 TO 72.4
		OVER 72.4 TO 72.6	OVER 72.6 TO 72.8
		OVER 72.8 TO 73.0	OVER 73.0 TO 73.2
		OVER 73.2 TO 73.4	OVER 73.4 TO 73.6
		OVER 73.6 TO 73.8	OVER 73.8 TO 74.0
		OVER 74.0 TO 74.2	OVER 74.2 TO 74.4
		OVER 74.4 TO 74.6	OVER 74.6 TO 74.8
		OVER 74.8 TO 75.0	OVER 75.0 TO 75.2
		OVER 75.2 TO 75.4	OVER 75.4 TO 75.6
		OVER 75.6 TO 75.8	OVER 75.8 TO 76.0
		OVER 76.0 TO 76.2	OVER 76.2 TO 76.4
		OVER 76.4 TO 76.6	OVER 76.6 TO 76.8
		OVER 76.8 TO 77.0	OVER 77.0 TO 77.2
		OVER 77.2 TO 77.4	OVER 77.4 TO 77.6
		OVER 77.6 TO 77.8	OVER 77.8 TO 78.0
		OVER 78.0 TO 78.2	OVER 78.2 TO 78.4
		OVER 78.4 TO 78.6	OVER 78.6 TO 78.8
		OVER 78.8 TO 79.0	OVER 79.0 TO 79.2
		OVER 79.2 TO 79.4	OVER 79.4 TO 79.6
		OVER 79.6 TO 79.8	OVER 79.8 TO 80.0
		OVER 80.0 TO 80.2	OVER 80.2 TO 80.4
		OVER 80.4 TO 80.6	OVER 80.6 TO 80.8
		OVER 80.8 TO 81.0	OVER 81.0 TO 81.2
		OVER 81.2 TO 81.4	OVER 81.4 TO 81.6
		OVER 81.6 TO 81.8	OVER 81.8 TO 82.0
		OVER 82.0 TO 82.2	OVER 82.2 TO 82.4
		OVER 82.4 TO 82.6	OVER 82.6 TO 82.8
		OVER 82.8 TO 83.0	OVER 83.0 TO 83.2
		OVER 83.2 TO 83.4	OVER 83.4 TO 83.6
		OVER 83.6 TO 83.8	OVER 83.8 TO 84.0
		OVER 84.0 TO 84.2	OVER 84.2 TO 84.4
		OVER 84.4 TO 84.6	OVER 84.6 TO 84.8
		OVER 84.8 TO 85.0	OVER 85.0 TO 85.2
		OVER 85.2 TO 85.4	OVER 85.4 TO 85.6
		OVER 85.6 TO 85.8	OVER 85.8 TO 86.0
		OVER 86.0 TO 86.2	OVER 86.2 TO 86.4
		OVER 86.4 TO 86.6	OVER 86.6 TO 86.8
		OVER 86.8 TO 87.0	OVER 87.0 TO 87.2
		OVER 87.2 TO 87.4	OVER 87.4 TO 87.6
		OVER 87.6 TO 87.8	OVER 87.8 TO 88.0
		OVER 88.0 TO 88.2	OVER 88.2 TO 88.4
		OVER 88.4 TO 88.6	OVER 88.6 TO 88.8
		OVER 88.8 TO 89.0	OVER 89.0 TO 89.2
		OVER 89.2 TO 89.4	OVER 89.4 TO 89.6
		OVER 89.6 TO 89.8	OVER 89.8 TO 90.0
		OVER 90.0 TO 90.2	OVER 90.2 TO 90.4
		OVER 90.4 TO 90.6	OVER 90.6 TO 90.8
		OVER 90.8 TO 91.0	OVER 91.0 TO 91.2
		OVER 91.2 TO 91.4	OVER 91.4 TO 91.6
		OVER 91.6 TO 91.8	OVER 91.8 TO 92.0
		OVER 92.0 TO 92.2	OVER 92.2 TO 92.4
		OVER 92.4 TO 92.6	OVER 92.6 TO 92.8
		OVER 92.8 TO 93.0	OVER 93.0 TO 93.2
		OVER 93.2 TO 93.4	OVER 93.4 TO 93.6
		OVER 93.6 TO 93.8	OVER 93.8 TO 94.0
		OVER 94.0 TO 94.2	OVER 94.2 TO 94.4
		OVER 94.4 TO 94.6	OVER 94.6 TO 94.8
		OVER 94.8 TO 95.0	OVER 95.0 TO 95.2
		OVER 95.2 TO 95.4	OVER 95.4 TO 95.6
		OVER 95.6 TO 95.8	OVER 95.8 TO 96.0
		OVER 96.0 TO 96.2	OVER 96.2 TO 96.4
		OVER 96.4 TO 96.6	OVER 96.6 TO 96.8
		OVER 96.8 TO 97.0	OVER 97.0 TO 97.2
		OVER 97.2 TO 97.4	OVER 97.4 TO 97.6
		OVER 97.6 TO 97.8	OVER 97.8 TO 98.0
		OVER 98.0 TO 98.2	OVER 98.2 TO 98.4
		OVER 98.4 TO 98.6	OVER 98.6 TO 98.8
		OVER 98.8 TO 99.0	OVER 99.0 TO 99.2
		OVER 99.2 TO 99.4	OVER 99.4 TO 99.6
		OVER 99.6 TO 99.8	OVER 99.8 TO 100.0
		OVER 100.0 TO 100.2	OVER 100.2 TO 100.4
		OVER 100.4 TO 100.6	OVER 100.6 TO 100.8
		OVER 100.8 TO 101.0	OVER 101.0 TO 101.2
		OVER 101.2 TO 101.4	OVER 101.4 TO 101.6
		OVER 101.6 TO 101.8	OVER 101.8 TO 102.0
		OVER 102.0 TO 102.2</	

LINE ITEM
TOP DOCUMENT

PART NUMBER
REV
DESCRIPTION

QTY PER VARIATION
06

1
2
3
4
5

1
2
3
4
5

4-DC-7409872-0-0

1700016-06
1209378-00
1209351-03
3610073-00
7409872-02

PWR CORD,TERM 3-18 SJT
MATE-N-LOK 01PIN 20-14AWG .08500
MATE-N-LOK 03PIN(1X03).200CC HSG
LABEL,10 W/COPY VERTICAL
PWR HARNESS DECAL, BLACK ON CL3A

230
.08500
.200CC HSG
.200CC HSG
.200CC HSG

1
2
1
1
1

REVISION HISTORY

SCO NUMBER
REV

INITIAL

BASIC PART NO: 7020539

SECTION A OF A

SECTION VARIATION INDEX

[A] 06

[B]

[C]

[D]

[E]

[F]

DNR: P. E. DENNISON
DATE: 15-APR-83

CHK'D: 14 DEC 83
DATE: 14 DEC 82

DES.ENG: P. CAPPABIANCA
DATE: 14 APR 83

RESP.ENG.: P. CAPPABIANCA
DATE: 14 APR 83

MFG.ENG.: J. MCCAFFERY
DATE: 11 APR 83

ASSEMBLY NUMBER: 10-1A-7020539-0-0
TOP DOCUMENT NUMBER: 1E-UA-CI29-A-0
FILE NAME: Z6009C.PLS

D I G I T A L

TITLE PARTS LIST
CABLE FAN AC 50HZ

DOCUMENT NUMBER
SIZE CODE NUMBER
REV

K PL 7020539-0-08P C

RELEASE DATE: 02-FEB-84

6

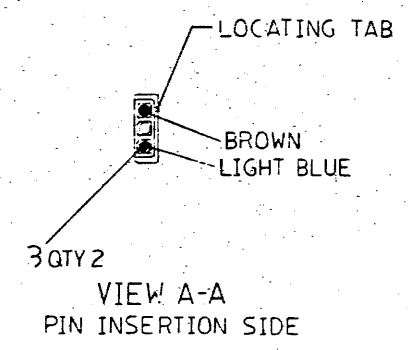
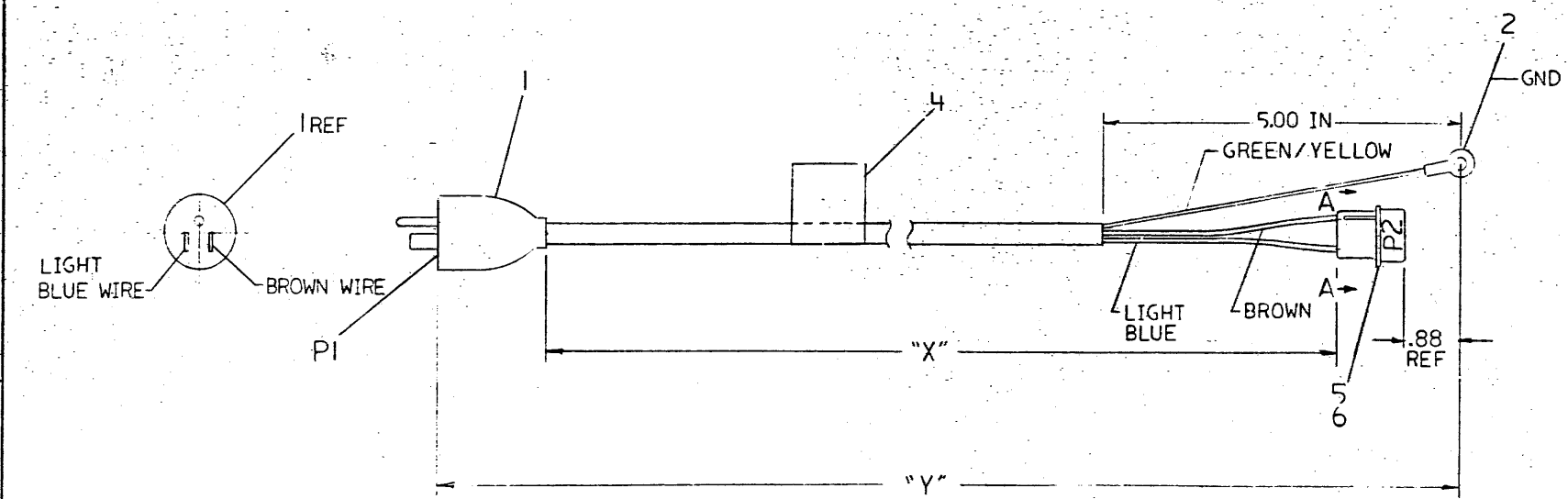
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LEGEND				
PART NO.	DIM. "X" VAR	DIM. "Y" (PRECUT) REF	REV	
7019274-06	5 FT. 9 IN. ± 1.0 IN.	6 FT. ± .5 IN.	BI	

NOTES:



CAUTION: OFF SHEET SHEET PARTS LIST EXISTS.
SEE K-PL-7019274-0-DBP.

REV	ECO NUMBER	RELEASED
C		

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 (CHECK ONE)	DIMENSION RANGE IN INCHES				
			OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0
X ± .1 XX ± .02 XXX ± .005	SURFACE QUALITY ✓ MICRONCHES	☐ ± .02 ☐ ± .03 ☐ ± .04	± .004	± .008	± .012	± .016	± .020
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DATE 19 APR 82	TITLE digital				
DO NOT SCALE DRAWING	REMOVE BURRS AND BREAK SHARP CORNERS	DATE 14 APR 83	CABLE, FAN AC 60 HZ				
MATERIAL	SEE PARTS LIST	DATE 14 APR 83	DOCUMENT NUMBER				
FINISH		DATE 1-11-83	DIA 7019274-0-0				
NEXT HIGHER DOC E-0A-C120-A-3			SCALE SHEET 1 OF 1				

LINE ITEM		TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION
VARIATION REVISION LEVEL:						
1	1		1700906-06		PWR CORD,TERM 3-15 SJT	115
2	2		9007928-00		TERM,RTNG #10STUD CRIMP	14-1
3	3		1209378-00		MATE-W-LDK D1PTN 20-14AWG .09500	2
4	4		3615973-00		LABEL,TD W/COPY VERTICAL	1
5	5	A-DC-7409872-0-0	7409872-02		PWR HARNESS DECAL, BLACK ON CLSA	1
6	6		1209351-03		MATE-W-LDK 03PTN(1X93).299CC HSG	1

REVISION HISTORY		BASIC PART NO: 7019274		DPN: W ALLEN	DATE: 19 APR 82	D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: G. F.	DATE: 14 DEC 82	TITLE PARTS LIST	
	INITIAL	C	SECTION VARIATION INDEX			CABLE PAN,AC 60 HZ	
			EA106				
			[B]	DES.ENG: P. CAPPABIANCA	DATE: 14 APR 83	DOCUMENT NUMBER	
			[C]			SIZE/CODE	NUMBER
			[D]	RESP.ENG.: P. CAPPABIANCA	DATE: 14 APR 83	K PL	7019274-0-DBP
			[E]				REV
			[F]	INFG.ENG.: J. MCCAFFERY	DATE: 11 APR 83	RELEASE DATE: 02-FEB-94	
				ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
				D-1A-7019274-0-0		Z5903C.PLS	8
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MD

8

0-0-3/26102 VI d

6

5

4

3

2

1

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WIRE TABLE

ITEM NO	DESCRIPTION	COLOR	POINT	FROM	WITH	POINT	TO	WITH	REMARKS
1	TWP #14	BLU	1	P1-4	4	6		5	TWP
		BLU	2	P1-3					
		BLK	3	P1-2					
		BLK	4	P1-					TWP
7	TWP #14	RED	7	P2-1		11	P3-4	4	
		BLK	8	P2-2		12	P3-1		
7	TWP #14	BLK	9	P2-3		13	P3-3		
		RED	10	P2-4	4	14	P3-6	4	

LEGEND

PART NO	VARIATION	REV
7019272-00	AS SHOWN	A2

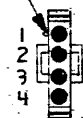
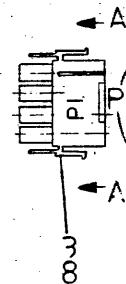
NOTES:

- USE TIE WRAPS (X) ITEM 6 APPROXIMATELY EVERY 3 INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT.
- CONNECTOR TO BE LABELED WITH COMPONENT IDENTIFIERS.
- UNLESS OTHERWISE NOTED ALL LENGTHS ARE IN INCHES.

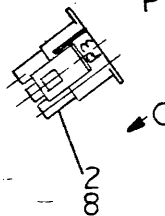
SYMBOLS

ITEM NO	SYMBOL	PART NO (REF)
4	□	1212170-00
5	○	9007920-00

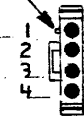
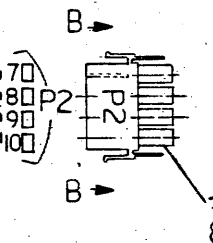
LOCATING TAB

VIEW A-A
PIN INSERTION SIDE

LOCATING TAB

VIEW C-C
PIN INSERTION SIDE

LOCATING TAB

VIEW B-B
PIN INSERTION SIDE

CAUTION

CAUTION

DO NOT REDUCE
FOR MANUFACTURING PURPOSES ONLYCAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7019272-0-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 (CHECK ONE)	DIMENSION RANGE IN INCHES				
			OVER 0.2 TO 0.4	OVER 0.4 TO 0.6	OVER 0.6 TO 1.0	OVER 1.0 TO 1.5	OVER 1.5 TO 2.0
± .01	± 30°	☐	☐	☐	☐	☐	☐
± .02	± 45°	☐	☐	☐	☐	☐	☐
± .05	± 60°	☐	☐	☐	☐	☐	☐
± .10	± 90°	☐	☐	☐	☐	☐	☐
± .15	± 120°	☐	☐	☐	☐	☐	☐
± .20	± 150°	☐	☐	☐	☐	☐	☐
± .25	± 180°	☐	☐	☐	☐	☐	☐
± .30	± 210°	☐	☐	☐	☐	☐	☐
± .35	± 240°	☐	☐	☐	☐	☐	☐
± .40	± 270°	☐	☐	☐	☐	☐	☐
± .45	± 300°	☐	☐	☐	☐	☐	☐
± .50	± 330°	☐	☐	☐	☐	☐	☐
± .55	± 360°	☐	☐	☐	☐	☐	☐
± .60	± 390°	☐	☐	☐	☐	☐	☐
± .65	± 420°	☐	☐	☐	☐	☐	☐
± .70	± 450°	☐	☐	☐	☐	☐	☐
± .75	± 480°	☐	☐	☐	☐	☐	☐
± .80	± 510°	☐	☐	☐	☐	☐	☐
± .85	± 540°	☐	☐	☐	☐	☐	☐
± .90	± 570°	☐	☐	☐	☐	☐	☐
± .95	± 600°	☐	☐	☐	☐	☐	☐
± 1.00	± 630°	☐	☐	☐	☐	☐	☐
± 1.05	± 660°	☐	☐	☐	☐	☐	☐
± 1.10	± 690°	☐	☐	☐	☐	☐	☐
± 1.15	± 720°	☐	☐	☐	☐	☐	☐
± 1.20	± 750°	☐	☐	☐	☐	☐	☐
± 1.25	± 780°	☐	☐	☐	☐	☐	☐
± 1.30	± 810°	☐	☐	☐	☐	☐	☐
± 1.35	± 840°	☐	☐	☐	☐	☐	☐
± 1.40	± 870°	☐	☐	☐	☐	☐	☐
± 1.45	± 900°	☐	☐	☐	☐	☐	☐
± 1.50	± 930°	☐	☐	☐	☐	☐	☐
± 1.55	± 960°	☐	☐	☐	☐	☐	☐
± 1.60	± 990°	☐	☐	☐	☐	☐	☐
± 1.65	± 1020°	☐	☐	☐	☐	☐	☐
± 1.70	± 1050°	☐	☐	☐	☐	☐	☐
± 1.75	± 1080°	☐	☐	☐	☐	☐	☐
± 1.80	± 1110°	☐	☐	☐	☐	☐	☐
± 1.85	± 1140°	☐	☐	☐	☐	☐	☐
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± 1.95	± 1200°	☐	☐	☐	☐	☐	☐
± 2.00	± 1230°	☐	☐	☐	☐	☐	☐
± 2.05	± 1260°	☐	☐	☐	☐	☐	☐
± 2.10	± 1290°	☐	☐	☐	☐	☐	☐
± 2.15	± 1320°	☐	☐	☐	☐	☐	☐
± 2.20	± 1350°	☐	☐	☐	☐	☐	☐
± 2.25	± 1380°	☐	☐	☐	☐	☐	☐
± 2.30	± 1410°	☐	☐	☐	☐	☐	☐
± 2.35	± 1440°	☐	☐	☐	☐	☐	☐
± 2.40	± 1470°	☐	☐	☐	☐	☐	☐
± 2.45	± 1500°	☐	☐	☐	☐	☐	☐
± 2.50	± 1530°	☐	☐	☐	☐	☐	☐
± 2.55	± 1560°	☐	☐	☐	☐	☐	☐
± 2.60	± 1590°	☐	☐	☐	☐	☐	☐
± 2.65	± 1620°	☐	☐	☐	☐	☐	☐
± 2.70	± 1650°	☐	☐	☐	☐	☐	☐
± 2.75	± 1680°	☐	☐	☐	☐	☐	☐
± 2.80	± 1710°	☐	☐	☐	☐	☐	☐
± 2.85	± 1740°	☐	☐	☐	☐	☐	☐
± 2.90	± 1770°	☐	☐	☐	☐	☐	☐
± 2.95	± 1800°	☐	☐	☐	☐	☐	☐
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± 3.10	± 1890°	☐	☐	☐	☐	☐	☐
± 3.15	± 1920°	☐	☐	☐	☐	☐	☐
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± 3.30	± 2010°	☐	☐	☐	☐	☐	☐
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± 3.45	± 2100°	☐	☐	☐	☐	☐	☐
± 3.50	± 2130°	☐	☐	☐	☐	☐	☐
± 3.55	± 2160°	☐	☐	☐	☐	☐	☐
± 3.60	± 2190°	☐	☐	☐	☐	☐	☐
± 3.65	± 2220°	☐	☐	☐	☐	☐	☐
± 3.70	± 2250°	☐	☐	☐	☐	☐	☐
± 3.75	± 2280°	☐	☐	☐	☐	☐	☐
± 3.80	± 2310°	☐	☐	☐	☐	☐	☐
± 3.85	± 2340°	☐	☐	☐	☐	☐	☐
± 3.90	± 2370°	☐	☐	☐	☐	☐	☐
± 3.95	± 2400°	☐	☐	☐	☐	☐	☐
± 4.00	± 2430°	☐	☐	☐	☐	☐	☐
± 4.05	± 2460°	☐	☐	☐	☐	☐	☐
± 4.10	± 2490°	☐	☐	☐	☐	☐	☐
± 4.15	± 2520°	☐	☐	☐	☐	☐	☐
± 4.20	± 2550°	☐	☐	☐	☐	☐	☐
± 4.25	± 2580°	☐	☐	☐	☐	☐	☐
± 4.30	± 2610°	☐	☐	☐	☐	☐	☐
± 4.35	± 2640°	☐	☐	☐	☐	☐	☐
± 4.40	± 2670°	☐	☐	☐	☐	☐	☐
± 4.45	± 2700°	☐	☐	☐	☐	☐	☐
± 4.50	± 2730°	☐	☐	☐	☐	☐	☐
± 4.55	± 2760°	☐	☐	☐	☐	☐	☐
± 4.60	± 2790°	☐	☐	☐	☐	☐	☐
± 4.65	± 2820°	☐	☐	☐	☐	☐	☐
± 4.70	± 2850°	☐	☐	☐	☐	☐	☐
± 4.75	± 2880°	☐	☐	☐	☐	☐	☐
± 4.80	± 2910°	☐	☐	☐	☐	☐	☐
± 4.85	± 2940°	☐	☐	☐	☐	☐	☐
± 4.90	± 2970°	☐	☐	☐	☐	☐	☐
± 4.95	± 3000°	☐	☐	☐	☐	☐	☐
± 5.00	± 3030°	☐	☐	☐	☐	☐	☐
± 5.05	± 3060°	☐	☐	☐	☐	☐	☐
± 5.10	± 3090°	☐	☐	☐	☐	☐	☐
± 5.15	± 3120°	☐	☐	☐	☐	☐	☐
± 5.20	± 3150°	☐	☐	☐	☐	☐	☐
± 5.25	± 3180°	☐	☐	☐	☐	☐	☐
± 5.30	± 3210°	☐	☐	☐	☐	☐	☐
± 5.35	± 3240°	☐	☐	☐	☐	☐	☐
± 5.40	± 3270°	☐					

			MIN		QTY PER VARIATION
LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV DESCRIPTION	00
					A2
VARIATION REVISION LEVEL:					
1	1		9107440-06	WIRE,TWP 14AWG19/.0147IPVC 300V1	A/R
2	2		1212167-06	MATE-N-LOK 06SKT(2X03).250CC HSG	1
3	3		1212167-01	MATE-N-LOK 04SKT(1X04).250CC HSG	2
4	4		1212170-00	MATE-N-LOK 01SKT 20-14AWG .0850D	12
5	5		9007920-00	TERM QUICK .300TAB CRIMP 12-1	2
6	6		9007880-00	TIE,CABLE BUNDL DIA 0-1.14"=101	8
7	7		9107440-02	WIRE,TWP 14AWG19/.0147IPVC 300V1	A/R
8	8	A-DC-7409872-0-0	7409872-02	PWR HARNESS DECAL, BLACK ON CLEA	1
9	9		3616073-00	LABEL,ID W/COPY VERTICAL	1

REVISION HISTORY			BASIC PART NO: 7019272		DRN:	W. ALLEN	DATE: 13-APR-82	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A					TITLE PARTS LIST			
---	INITIAL	B	SECTION VARIATION INDEX		CHK'D:	G. F.	DATE: 10 DEC 82	HARNESS DC-5.2 SECTION-1 DC+5			
PC	7019272-MR001	C	[A]00								
			[B]		DES.ENG:	P. CAPPABIANCA	DATE: 14 APR 83	DOCUMENT NUMBER			
			[C]					SIZE	CODE	NUMBER	REV
			[D]		RESP.ENG.:	P. CAPPABIANCA	DATE: 14 APR 83	K	PL	7019272-0-DBP	C
			[E]		MFG.ENG.:	J. MCCAFFERY	DATE: 11 APR 83	RELEASE DATE: 30-OCT-84			
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
					D-1A-7019272-0-0			Z5884C.PLS		9	

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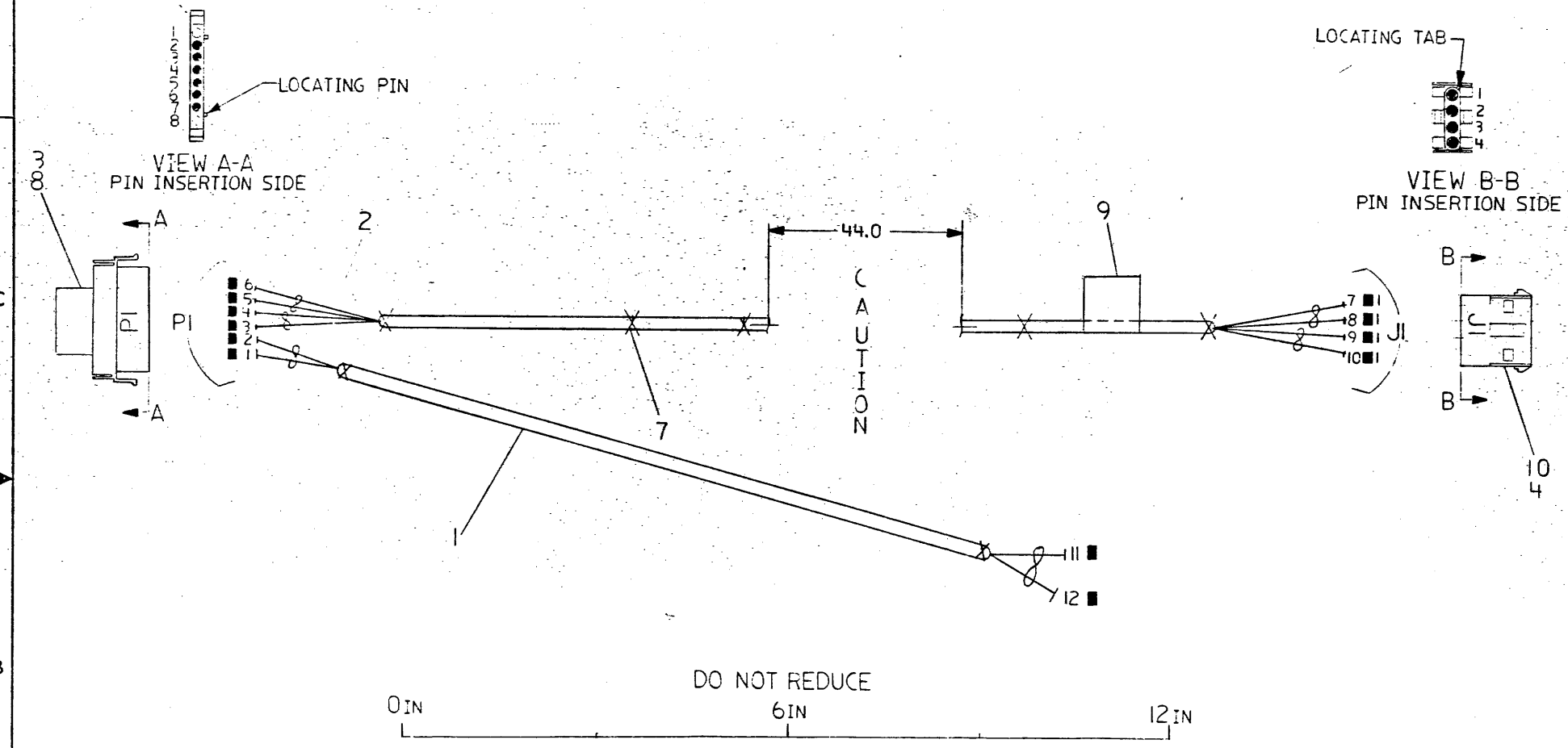
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SYMBOLS		
ITEM NO.	SYMBOL	PART NO. (REF)
5	■	1209375-00
6	■	1212162-00

WIRE TABLE									
ITEM NO	DESCRIPTION	FROM			TO			REMARKS	
		AWG	COLOR	POINT	CONNECTION	WITH	POINT		
1	TWP #18	WHT	1	PI-7	5	12	5		
2	TWP #14	RED	2	PI-6	11	5			
		RED	3	PI-5	10	J1-4	6		
		BLK	4	PI-4	9	J1-3	▲		
2	TWP #14	BLK	5	PI-3	8	J1-2	▼		
		RED	6	PI-2	5	J1-1	6		

LEGEND		
PART NO	VARIATION	REV
7019273 00	AS SHOWN	01

- NOTES:
1. USE TIE WRAPS(X) ITEM 7 APPROXIMATELY EVERY 3 INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT.
 2. CONNECTOR TO BE LABELED WITH COMPONENT IDENTIFIERS.
 3. UNLESS OTHERWISE NOTED ALL LENGTHS ARE IN INCHES.



DO NOT REDUCE
FOR MANUFACTURING PURPOSE ONLY

CAUTION: OFF SHEET PARTS LIST EXIST
SEE K-PL-7019273-0-DBP

REVISION HISTORY	
DATE	REV
	C

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	APPLICABLE DIMENSION RANGE	DIMENSION RANGE IN INCHES
.X ± .1	SURFACE QUALITY	(CHECK ONE)	OVER 0 TO .2
XX ± .02			OVER .2 TO .4
XXX ± .006			OVER .4 TO .6
			OVER .6 TO .8
			OVER .8 TO 1.0
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LINE ITEM		TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION
VARIATION REVISION LEVEL:						
1	1		9107430-92		WIRE,TWP 18AWG(19/30)TPVC 150V	A/R
2	2		9107440-02		WIRE,TWP 14AWG19/.0147TPVC 300V1	A/R
3	3	A-PS-1209340-0-0	1209340-01		MATE-N-LOK J8PIN(1X08)	HSG 1
4	4	A-PS-1212168-0-0	1212168-02		MATE-N-LOK 04POS(1X34).250CC HSG	1
5	5	A-PS-1209376-0-0	1209378-00		MATE-N-LOK 01PIN 20-14AWG .085JD	8
6	6	A-PS-1212169-0-0	1212169-00		MATE-N-LOK 01PIN 20-14AWG .085JD	4
7	7		9007880-00		TIE,CABLE BUNDL DIA 0-1.14"=101	A/R
8	8	A-DC-7409872-0-0	7409872-02		PWR HARNESS DECAL, BLACK ON CLEAR	1
9	9		3616073-00		LABEL,YD W/CDPV VERTICAL	1
10	10	A-DC-7409873-0-0	7409873-02		PWR CONN DECAL BLACK ON CLEAR	1

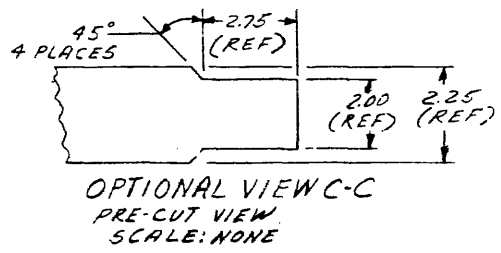
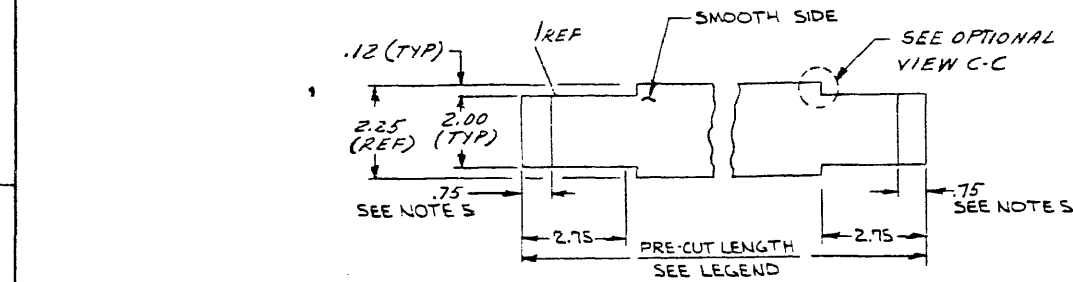
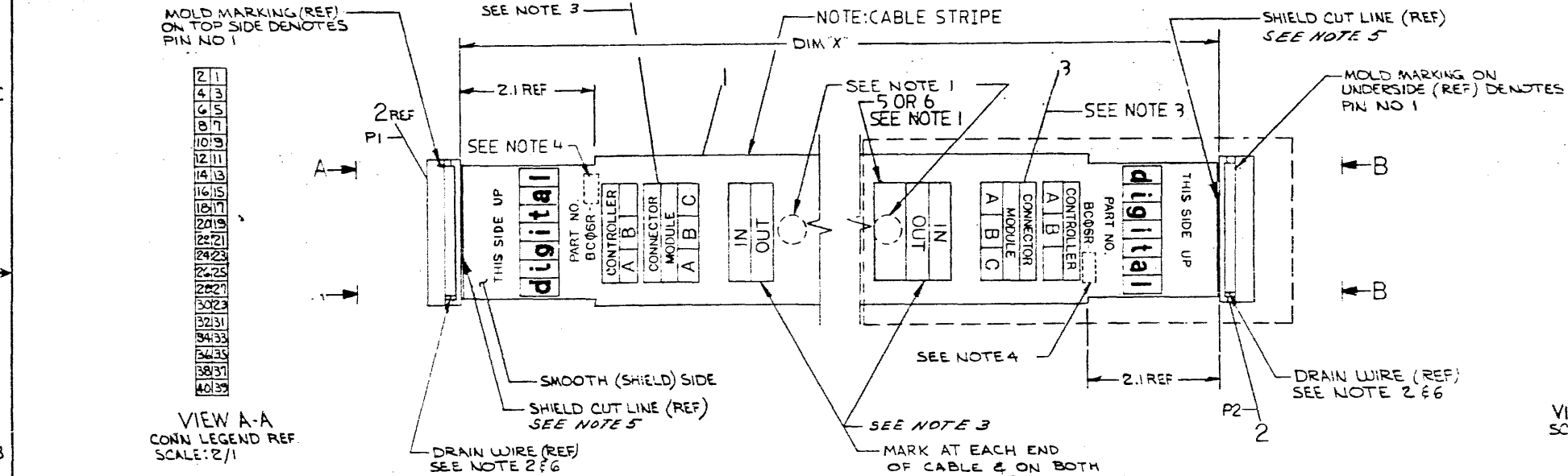
REVISION HISTORY		BASIC PART NO: 7019273		DRN:	W. ALLEN	DATE: 14-APR-82	D I G I T A L	
ENG:	ECU NUMBER	REV	SECTION A OF A	CHK'D:	G. F.	DATE: 14 DEC 82	TITLE PARTS LIST	
---	INITIAL	C	SECTION VARIATION INDEX				HARNESS DC-5.2	
			CA300				SECT N-2 DC+5	
			[B]	DES.ENG:	P. CAPPABIANCA	DATE: 14 APR 83	DOCUMENT NUMBER	
			[C]				SIZE CODE NUMBER REV	
			[D]	RESP.ENG.:	P. CAPPABIANCA	DATE: 14 APR 83	PL 7019273-0-06P C	
			[E]	MFG.ENG.:	J. MCCAFFERY	DATE: 11 APR 83	RELEASE DATE: 02-FEB-84	
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
				10-1A-7019273-0-0		1E-0A-C120-0-0	75883C.PLS	4
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WIRE TABLE			
FROM	TO	FROM	TO
P1-1	P2-1	P1-21	P2-21
P1-2	P2-2	P1-22	P2-22
P1-3	P2-3	P1-23	P2-23
P1-4	P2-4	P1-24	P2-24
P1-5	P2-5	P1-25	P2-25
P1-6	P2-6	P1-26	P2-26
P1-7	P2-7	P1-27	P2-27
P1-8	P2-8	P1-28	P2-28
P1-9	P2-9	P1-29	P2-29
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P1-16	P2-16	P1-36	P2-36
P1-17	P2-17	P1-37	P2-37
P1-18	P2-18	P1-38	P2-38
P1-19	P2-19	P1-39	P2-39
P1-20	P2-20	P1-40	P2-40

LEGEND			
NUMBER	DIM X"	PRECUT LENGTH	REMARKS
BC06R-01	1 FT	1 FT 1.5 IN ± 1 IN	SEE PRE-CUT VIEW C-C
BC06R-02	12 FT	2 FT 1.5 IN ± 1 IN	
BC06R-03	3 FT	3 FT 1.5 IN ± 1 IN	
BC06R-04	4 FT	4 FT 1.5 IN ± 1 IN	
BC06R-05	4 FT 6 IN	4 FT 7.5 IN ± 1.5 IN	SEE NOTE 7
BC06R-06	6 FT	6 FT 1.5 IN ± 2 IN	
BC06R-08	8 FT	8 FT 1.5 IN ± 2 IN	
BC06R-10	10 FT	10 FT 1.5 IN ± 2 IN	
BC06R-12	12 FT	12 FT 1.5 IN ± 3 IN	
BC06R-20	20 FT	20 FT 1.5 IN ± 3 IN	
BC06R-25	25 FT	25 FT 1.5 IN ± 3 IN	
BC06R-30	30 FT	30 FT 1.5 IN ± 6 IN	
BC06R-50	50 FT	50 FT 1.5 IN ± 10 FT	
BC06R-60	60 FT	60 FT 1.5 IN ± 12 FT	
BC06R-75	75 FT	75 FT 1.5 IN ± 15 FT	
BC06R-A0	100 FT	100 FT 1.5 IN ± 2 FT	
BC06R-07	7 FT	7 FT 1.5 IN ± 2 IN	
BC06R-08	8 FT 6 IN	8 FT 7.5 IN ± 1 IN	SEE PRE-CUT VIEW C-C
BC06R-15	15 FT	15 FT 1.5 IN ± 3 IN	
BC06R-1C	15 IN	16.5 IN ± 1 IN	SEE PRE-CUT VIEW C-C
BC06R-1K	1 FT 9 IN	1 FT 10.5 IN ± 1 IN	SEE PRE-CUT VIEW C-C

- NOTES:
1. LABEL (ITEMS 5 OR 6 CAN BE USED) TO CONTAIN:
REV.
DATE (OF BUILD)
MFG (STAMP) TEST (STAMP)
INSP (STAMP)
AFFIX LABEL AROUND CABLE IN APPROX CENTER.
 2. DRAIN WIRE CONNECTS TO PIN NO 40.
 3. RUBBER STAMP INFORMATION SHOWN USING INK (ITEM 3) & ARTWORK DEC NO A-DC-7411699-0-0.
 4. STAMP APPLICABLE OPTION DASH NO. ACCORDING TO LENGTH.
 5. REMOVE SHIELD .75 FROM END OF PRECUT CABLE (SEE VIEW C-C).
 6. COVER EXPOSED DRAIN WIRE WITH ITEM 4 PRIOR TO ASSY (BOTH ENDS).
 - * 7. FOR RP04, RP05, RP06 USE WRAP AROUND VINYL LABEL. SEE VARIATIONS ON DRAWING NUMBER A-PS-3615389-0-0 ALSO SEE NEXT HIGHER ASSEMBLY E-IA-7009807-0-0 AND E-IA-7009808-0-0.



CAUTION: OFF SHEET PARTS LIST EXISTS. SEE: K-PL-BC06R-0-DBP (Z 6996)

REV	CHG	NO	DATE	BY	CHK	APP
1	1	1	11/14/74	W. DUNN		
2	1	1	11/14/74	W. DUNN		
3	1	1	11/14/74	W. DUNN		
4	1	1	11/14/74	W. DUNN		
5	1	1	11/14/74	W. DUNN		
6	1	1	11/14/74	W. DUNN		
7	1	1	11/14/74	W. DUNN		
8	1	1	11/14/74	W. DUNN		
9	1	1	11/14/74	W. DUNN		
10	1	1	11/14/74	W. DUNN		
11	1	1	11/14/74	W. DUNN		
12	1	1	11/14/74	W. DUNN		
13	1	1	11/14/74	W. DUNN		
14	1	1	11/14/74	W. DUNN		
15	1	1	11/14/74	W. DUNN		
16	1	1	11/14/74	W. DUNN		
17	1	1	11/14/74	W. DUNN		
18	1	1	11/14/74	W. DUNN		
19	1	1	11/14/74	W. DUNN		
20	1	1	11/14/74	W. DUNN		
21	1	1	11/14/74	W. DUNN		
22	1	1	11/14/74	W. DUNN		
23	1	1	11/14/74	W. DUNN		
24	1	1	11/14/74	W. DUNN		
25	1	1	11/14/74	W. DUNN		
26	1	1	11/14/74	W. DUNN		
27	1	1	11/14/74	W. DUNN		
28	1	1	11/14/74	W. DUNN		
29	1	1	11/14/74	W. DUNN		
30	1	1	11/14/74	W. DUNN		
31	1	1	11/14/74	W. DUNN		
32	1	1	11/14/74	W. DUNN		
33	1	1	11/14/74	W. DUNN		
34	1	1	11/14/74	W. DUNN		
35	1	1	11/14/74	W. DUNN		
36	1	1	11/14/74	W. DUNN		
37	1	1	11/14/74	W. DUNN		
38	1	1	11/14/74	W. DUNN		
39	1	1	11/14/74	W. DUNN		
40	1	1	11/14/74	W. DUNN		

FIRST USED ON OPTION/MODEL		QTY	DESCRIPTION		PART NO	ITEM NO
RP04			PARTS LIST			
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES			DATE	DATE	EQUIPMENT CORPORATION	
DECIMALS			11/14/74	11/14/74	TITLE	
ANGLES			11/14/74	11/14/74	BC06R I/O CABLE	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY			11/14/74	11/14/74	REV. J	
MATERIAL			11/14/74	11/14/74	DUA BC06R-0-0	
SEE PARTS LIST			11/14/74	11/14/74	SHEET 1 OF 1	
FINISH			11/14/74	11/14/74	DIST	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN	REV	DESCRIPTION	QTY	PER VARIATION
1	1		1700034-00	H		CABLE,RIBBON BOND 40COND 30AWG	A/R	
2	2		1211206-00	S		CONN,IDC 40SKT(2X20).100CC GOL	2	
3	3		4901150-00	A		INK,ACID BASE,WATERPROOF	A/R	
4	4		3612511-00	CR		TAPE,VINYL ADH .50 WDX 7M	A/R	
5	5		3616073-00	B		LABEL,ID W/COTY VERTICAL	1	
6	6		3616989-00	A		LABEL,CABLE LARGE	1	

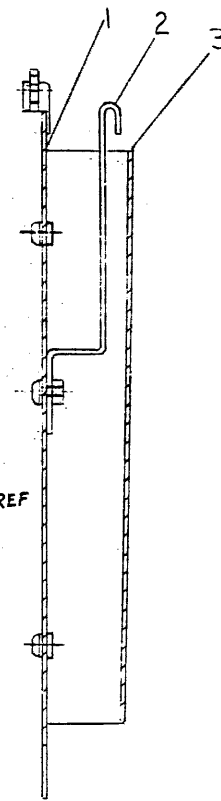
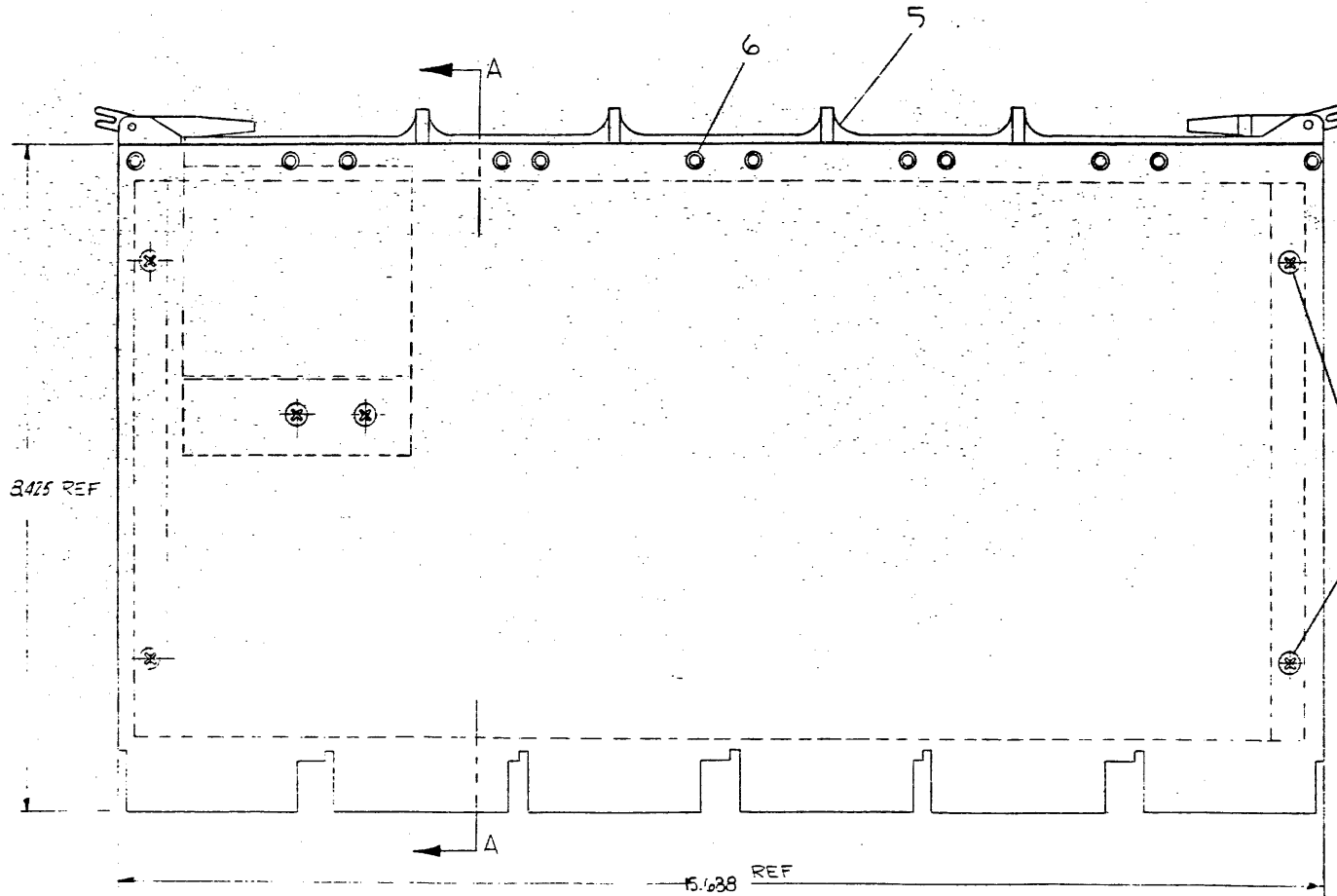
REVISION HISTORY			BASIC PART NO: BC06R		DRN:	D. DI PERRI	DATE: 12-22-73	D	I	G	I	T	A	L
ENG:	ECC NUMBER	REV	SECTION A OF A					TITLE PARTS LIST						
WH	BC06R-CX007	H	SECTION VARIATION INDEX		CHK'D:	B. MONETTE	DATE: 3-25-74	BC06R I/O CABLE						
RM	BC06R-CX008	J	[AJ01											
			[B]		DES.ENG:	D. POTTER	DATE: 3-29-73	DOCUMENT NUMBER						
			[C]					SIZE	CODE	NUMBER	REV			
			[D]		RESP.ENG.:	D. LIGNOS	DATE: 4-17-74	K	PL	BC06R 0-DBP	J			
			[E]		MFG.ENG.:	A. PARLSING	DATE: 4-21-74	RELEASE DATE:						
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #				
					D-UA-BC06R-0-0-0		E-IA-7009807-0-0	Z6996J.PLS		4				

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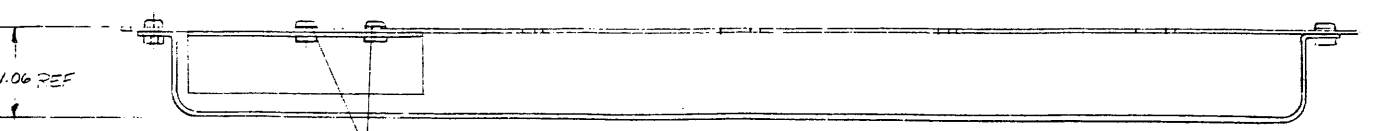
LEGEND		
NUMBER	DESCRIPTION	REV
700266-00	AS SHOWN	A1

NOTES:



SECTION A-A

CAUTION: OFF SHEET PARTS LIST MUST SEE K.P. 700266-0-03P



4 QTY 6

REVISION HISTORY	ECO NUMBER	REV
RELEASED		B

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 (CHECK ONE)	DIMENSION RANGE IN INCHES						
			OVER	OVER	OVER	OVER	OVER	OVER	
X = ± .1	SURFACE QUALITY	(CHECK ONE)	TO 0.2	TO 1.2	TO 4.0	TO 12.0	TO 40.0	TO 60.0	
XX = ± .02			± .02	± .03	± .05	± .10	± .15	± .20	
XXX = ± .005			± .004	± .008	± .012	± .016	± .024	± .04	
MICROINCHES									
THIRD ANGLE PROJECTION		DATE	TITLE						
DO NOT SCALE DRAWING		DATE	MODULE BLANK						
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	ASSY						
MATERIAL		DATE	DOCUMENT NUMBER						
FINISH		DATE	E-0A-C120-A-0						

LINE ITEM		TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION
				MIN		33
VARIATION REVISION LEVEL:						
1	1	D-MD-7428313-0-0	49057-00		AIR FLOW CONTROLLER, HEX (FOR C12	1
2	2	C-IA-7424869-0-0	7424869-01		CLTP	1
3	3	D-IA-7426796-0-0	7426796-01		BAFFLE	1
4	4		9006022-01		SCREW, WASH PIN PHIL 5-	6

REVISION HISTORY		BASIC PART NO: 7019266		URN: W. ALLEN		DATE: 26-FEB-82		D I G I T A L	
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D: C. F.		DATE: 14-DEC-82		TITLE PARTS LIST	
---	INITIAL	18	SECTION VARIATION INDEX					MODULE BLANK ASSY	
			CA100						
			[B]	DES.ENG: P. CAPPABIANCA		DATE: 13-APR-83		DOCUMENT NUMBER	
			[C]					SIZE CODE NUMBER	
			[D]	RESP.ENG.: P. CAPPABIANCA		DATE: 13-APR-83		K PL 7019266-0-DBP 8	
			[E]	MFG.ENG.: S. ALMEIDA		DATE: 13-APR-83		RELEASE DATE: 02-FEB-84	
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
				D-AD-7019266-0-0				Z5881B.PLS	
								EDIT #	
								6	
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MPD

DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS	
			ECO NUMBER	-	M3001-MR001
		M3001-00	MODULE REVISION	A1	A1
D-UA-M3001-0-0	2		EBUS	A	A1
K-PL-M3001-0-DBP	2		PARTS LIST, M3001	A	A1
D-CS-M3001-0-EBI1	1		CI20 EBUS INTFC CONTROL 1	A	A
D-CS-M3001-0-EBI2	1		CI20 EBUS INTFC CONTROL 2	A	A
D-CS-M3001-0-EBI3	1		CI20 EBUS INTFC EBUS-MBUS MUXS	A	A
D-CS-M3001-0-EBI4	1		CI20 EBUS INTFC CSR REG	A	A
D-CS-M3001-0-EBI5	1		CI20 EBUS INTFC EBUS PAR AND EBUF	A	A
D-CS-M3001-0-EBI6	1		CI20 EBUS INTFC EBUS XCEIVERS	A	A
D-CS-M3001-0-EBI7	1		CI20 EBUS INTFC MICROPROC ALU 1	A	A
D-CS-M3001-0-EBI8	1		CI20 EBUS INTFC MICROPROC ALU 2	A	A
D-CS-M3001-0-EBI9	1		CI20 EBUS INTFC UPROC CNST MUX	A	A
D-CS-M3001-0-EBIA	1		CI20 EBUS INTFC PWR & GND	A	A
D-CS-M3001-0-EBIB	1		CI20 EBUS INTFC UNUSED FINGER	A	A
D-CS-M3001-0-BLK	1		BLOCK DIAGRAM EBUS MODULE	A	A
K-PC-M3001-0-DBI	-		P.C. DESIGN DATA BASE	A	A
D-DD-5015384-0	2		DRAWING DIRECTORY, 5015384	REF	REF

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. D. DELLORCO	DATE 19-FEB-85	ENG. E. BLOOM	DATE 19-FEB-85	TITLE: DRAWING DIRECTORY		
	CHK'D. D. CAUNTER	DATE 19-FEB-85	BOARD LOCATION: N/A	SHEET 2 OF 2	M3001 (EBUS)		
	DSK: M30012.T2PL4.571 19-FEB-85 13:06				NEXT HIGHER ASSEMBLY:		
FIRST USED ON OPTION/MODEL: CI20					SIZE CODE D DD	NUMBER M3001-0	REV. C

DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS	
			ECO NUMBER	M3001	M3001
				MR001	MR002
		M3001-00	MODULE REVISION	A2	A3
D-UA-M3001-0-0	1		EBUS	B	C
K-PL-M3001-0-DBP	2		PARTS LIST, M3001	B	C
D-CS-M3001-0-EBI1	1		CI20 EBUS INTFC CONTROL 1	A	A
D-CS-M3001-0-EBI2	1		CI20 EBUS INTFC CONTROL 2	A	A
D-CS-M3001-0-EBI3	1		CI20 EBUS INTFC EBUS-MBUS MUXS	A	A
D-CS-M3001-0-EBI4	1		CI20 EBUS INTFC CSR REG	A	A
D-CS-M3001-0-EBI5	1		CI20 EBUS INTFC EBUS PAR AND EBUF	A	A
D-CS-M3001-0-EBI6	1		CI20 EBUS INTFC EBUS XCEIVERS	A	A
D-CS-M3001-0-EBI7	1		CI20 EBUS INTFC MICROPROC ALU 1	A	A
D-CS-M3001-0-EBI8	1		CI20 EBUS INTFC MICROPROC ALU 2	A	A
D-CS-M3001-0-EBI9	1		CI20 EBUS INTFC UPROC CNST MUX	A	A
D-CS-M3001-0-EBIA	1		CI20 EBUS INTFC PWR & GND	A	A
D-CS-M3001-0-EBIB	1		CI20 EBUS INTFC UNUSED FINGER	A	A
D-CS-M3001-0-BLK	1		BLOCK DIAGRAM EBUS MODULE	A	A
K-PC-M3001-0-DBI	-		P.C. DESIGN DATA BASE	B	B
D-DD-5015384-0	2		DRAWING DIRECTORY, 5015384	REF	REF

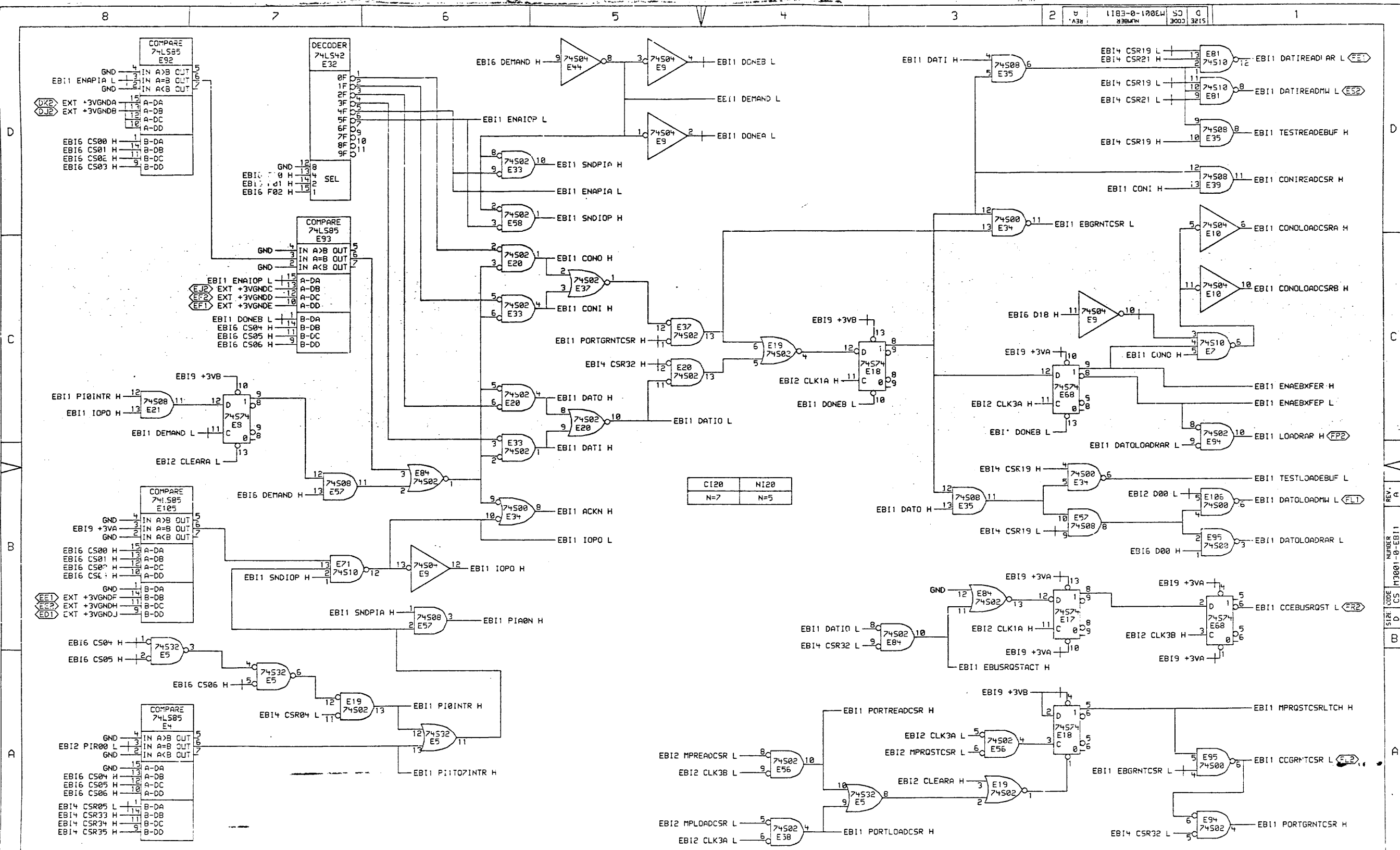
LINE ITEM	TCP	DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
						00		
VARIATION REVISION LEVEL:						A3		
1	1	D-MC-5015384-0-0	5015384-01	C	DRILL & ETCH DWG FOR M3001	1		
2	2		1001610-00		.01 MFD 50V +80-20% Z5U CER	113		C1-C17,C19-C29,C31-C52,C55-C104, C107-C119
3	3		1012084-03		150 MFD 15V +75-10% AL EL	10		C131-C140
4	4		1012784-00		.047 MFD 50V +80-20% CER	17		C18,C30,C53,C54,C105,C106, C120-C130
5	5		1216832-03		PCB,HEADER 50POS(2X25).100CC 90D	1		J1
6	6		1215278-00		CABLE,FLEX NOMEX SHEET MODULE PR	1		
7	7		1216988-02		HANDLE,MODULE,HEX TWO EJECTORS	1		
8	8		1300295-00		330.0 .25 W 5.0 % CF	2		R1,R3
9	9		1300309-00		390.0 .25 W 5.0 % CF	6		R6,R8,R10,R12,R14,R16
10	11		1301322-00		180.0 .25 W 5.0 % CF	8		R2,R4,R5,R7,R9,R11,R13,R15
11	12		1910532-B0		74S00 BURNED-IN NAND GATE-	6		E12,E34,E82,E95,E106,E108
12	13		1910534-B0		74S04 BURNED-IN INVERTER G	6		E9,E10,E44,E53,E78,E79
13	14		1910536-B0		74S10 BURNED-IN NAND GATE-	3		E7,E71,E81
14	15		1910537-B0		74S11 BURNED-IN AND GATE-T	1		E124
15	15		1910544-B0		74S74 BURNED-IN FF-D DUAL,	9		E6,E8,E17,E18,E55,E67-E69,E83
16	17		1911117-00	DEC	8838 TRANSCEIVER,BUS,QUA	16		E1-E3,E14-E16,E27-E30,E40-E43, E54,E66
17	18		1911573-B0		74S280 BURNED-IN PARITY GEN	10		E46-E50,E52,E74,E76,E77,E86
18	19		1911641-B0		74S257 BURNED-IN MUX,QUAD 2	9		E87-E90,E99-E103
19	20		1911675-B0		74S138 BURNED-IN DECODER/DE	1		E45
20	21		1912097-00	SN	74S182 LOOK AND CARRY GEN	3		E113,E119,E125
21	22		1912388-B0		74S02 BURNED-IN NOR GATE-Q	8		E19,E20,E33,E37,E56,E58,E84,E94
22	23		1912389-B0		74S08 BURNED-IN AND GATE,Q	7		E21,E35,E39,E57,E59,E72,E118
23	24		1912697-00		LS174 FF-D HEX W/CLEAR	6		E91,E98,E104,E112,E114,E115
24	25		1912799-B0		LS00 BURNED-IN NAND GATE-	2		E22,E26
25	26		1912805-B0		LS08 BURNED-IN AND GATE-Q	2		E13,E23
26	27		1912819-00		LS42 DECODER,BCD-DECIMAL	1		E32
27	28		1912824-B0		LS74 BURNED-IN FF-D DUAL-	3		E11,E24,E25

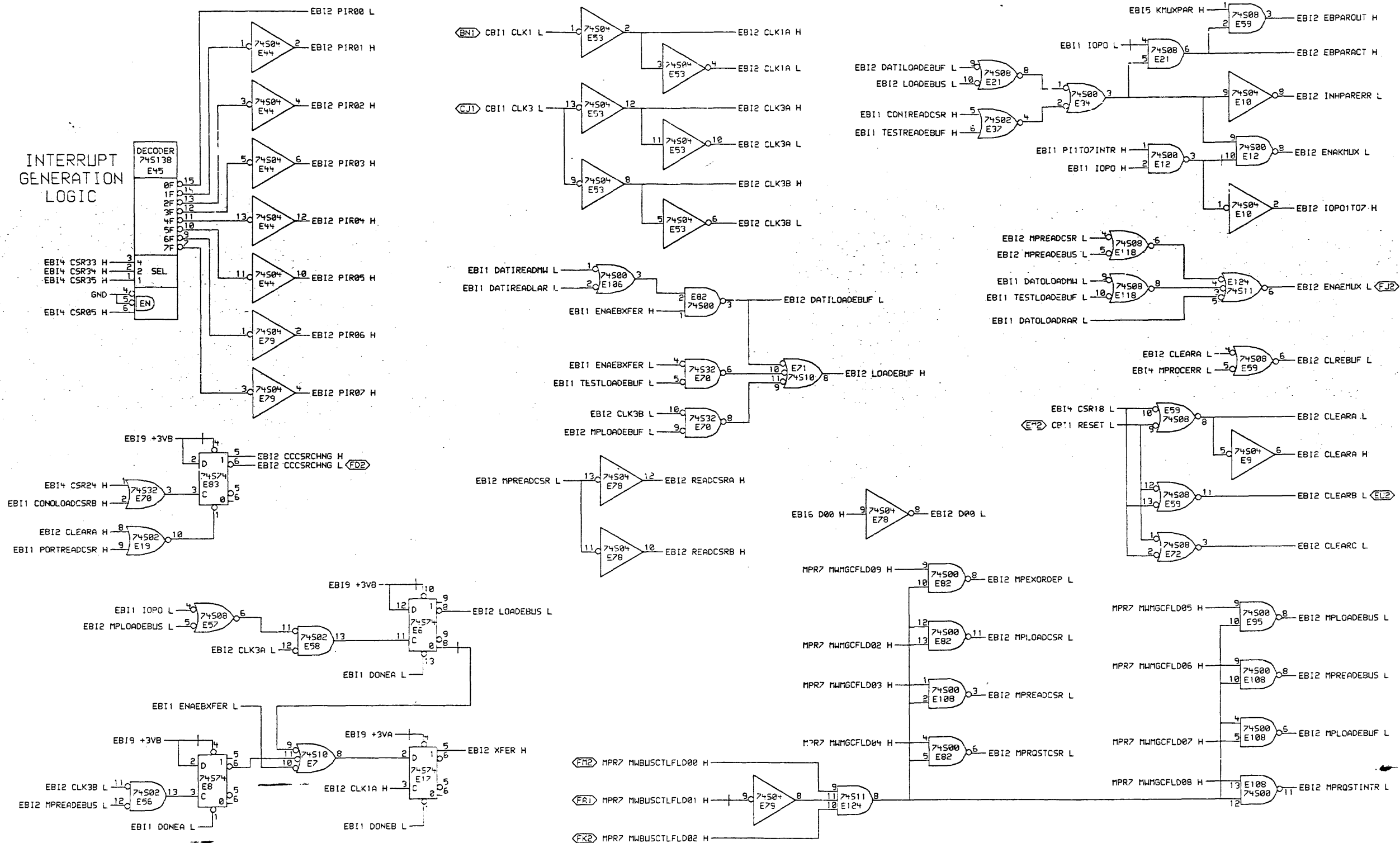
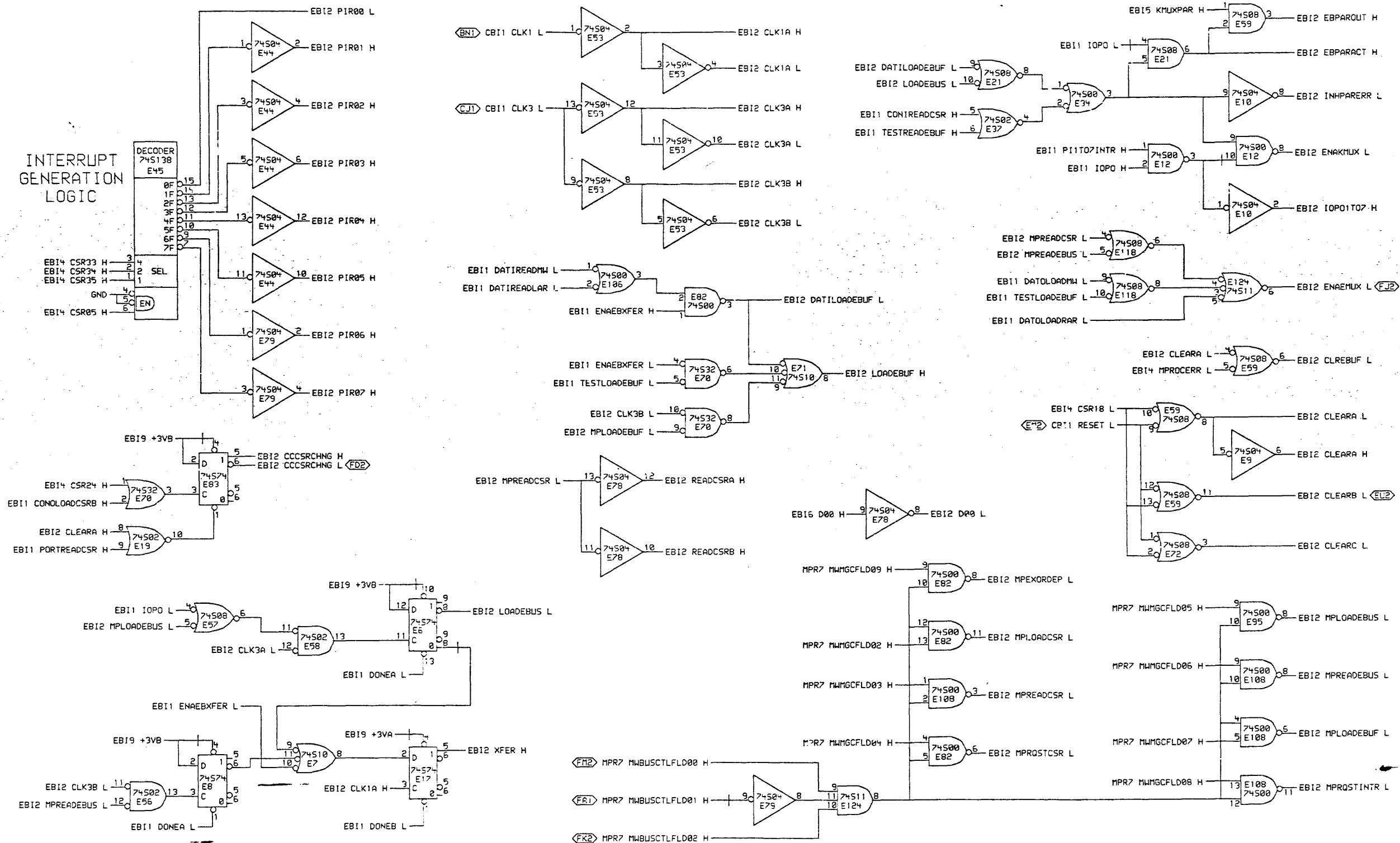
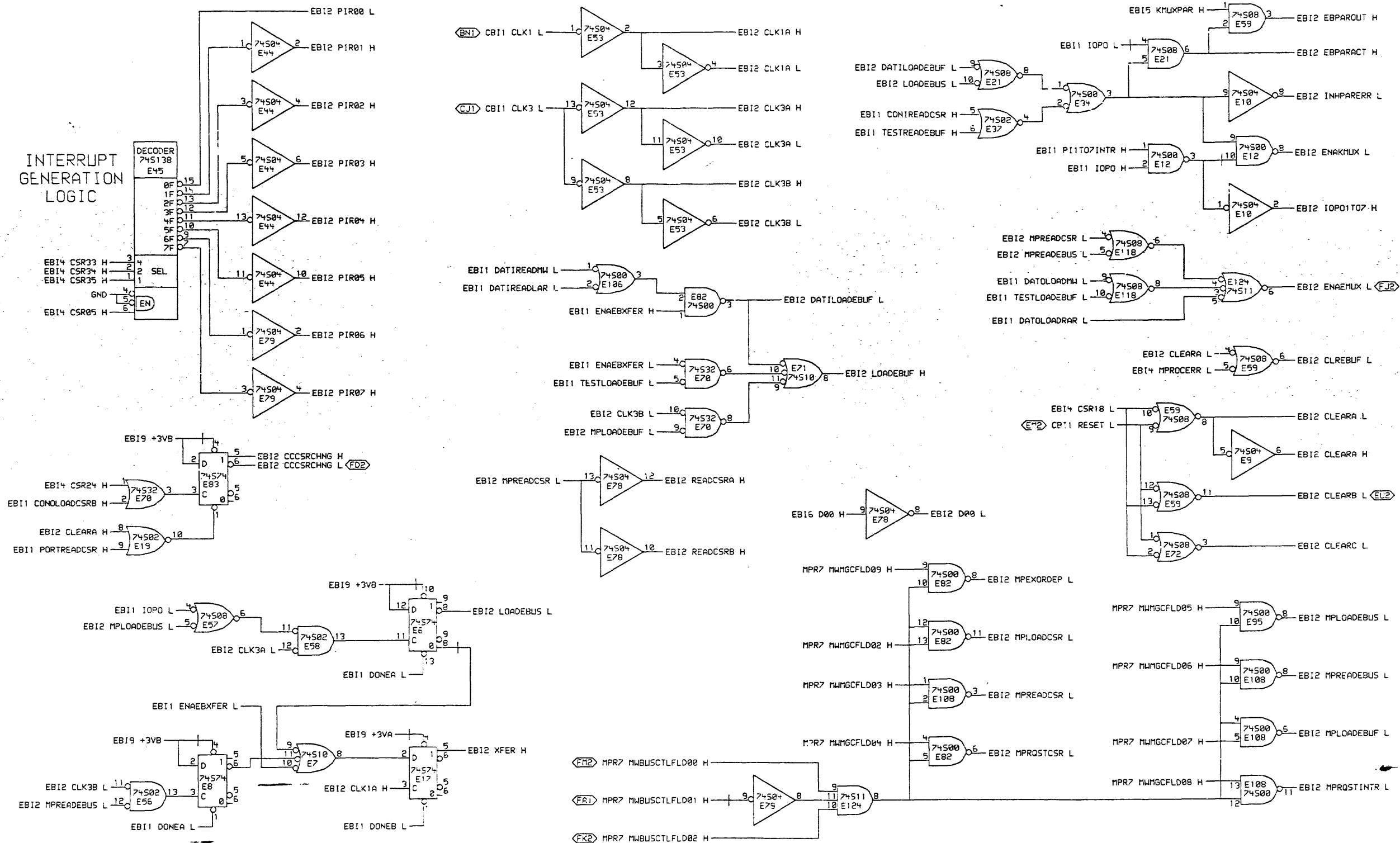
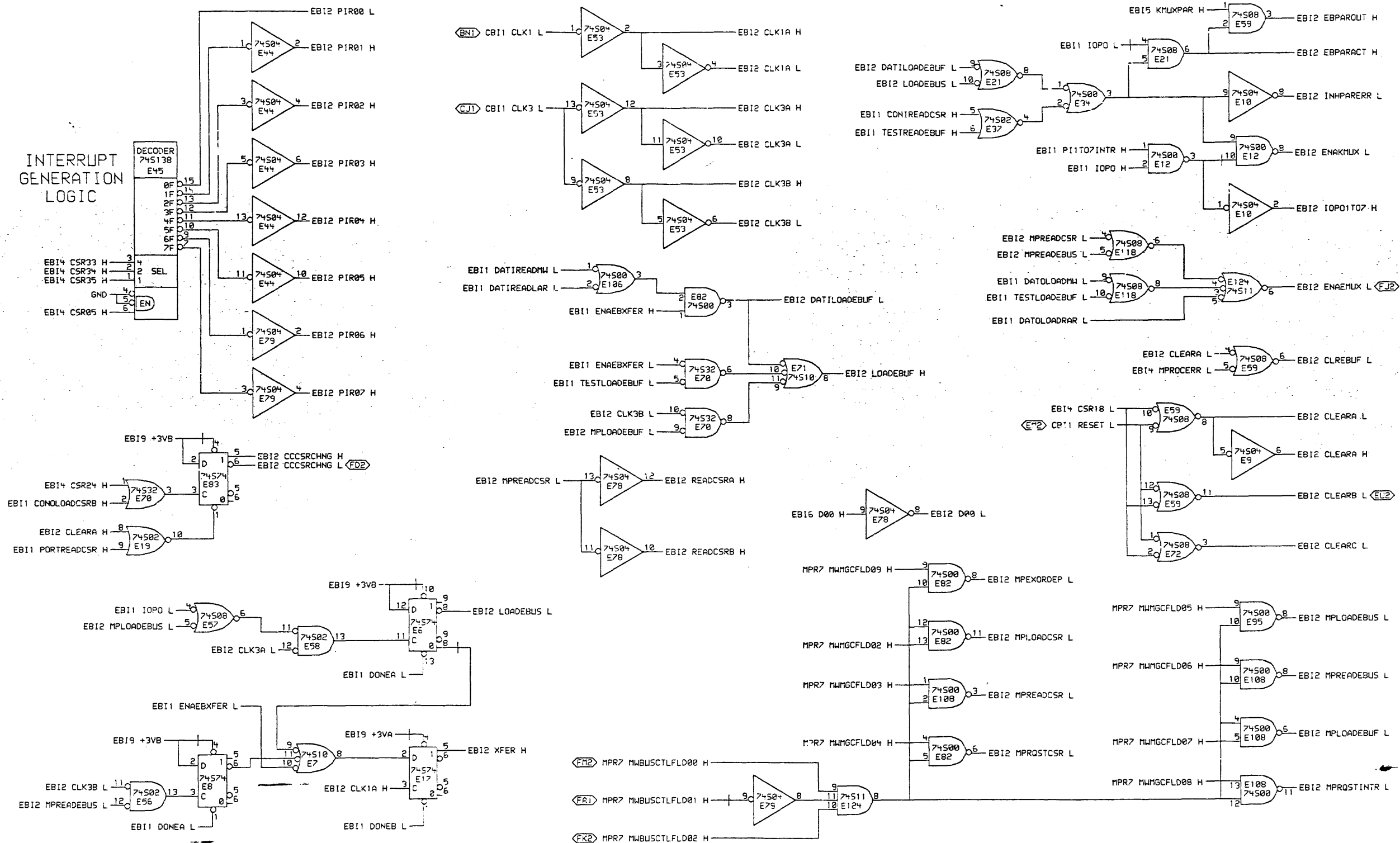
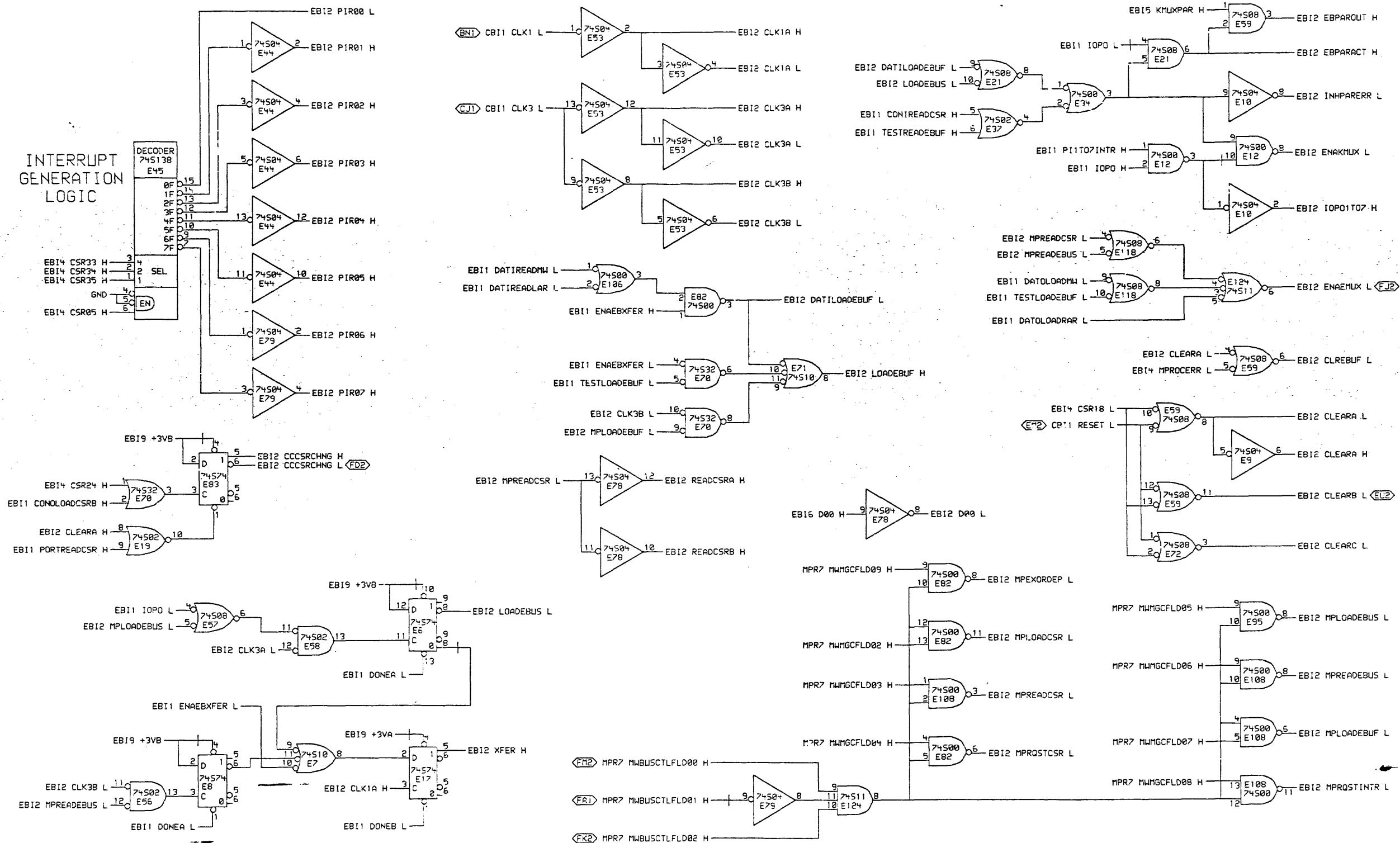
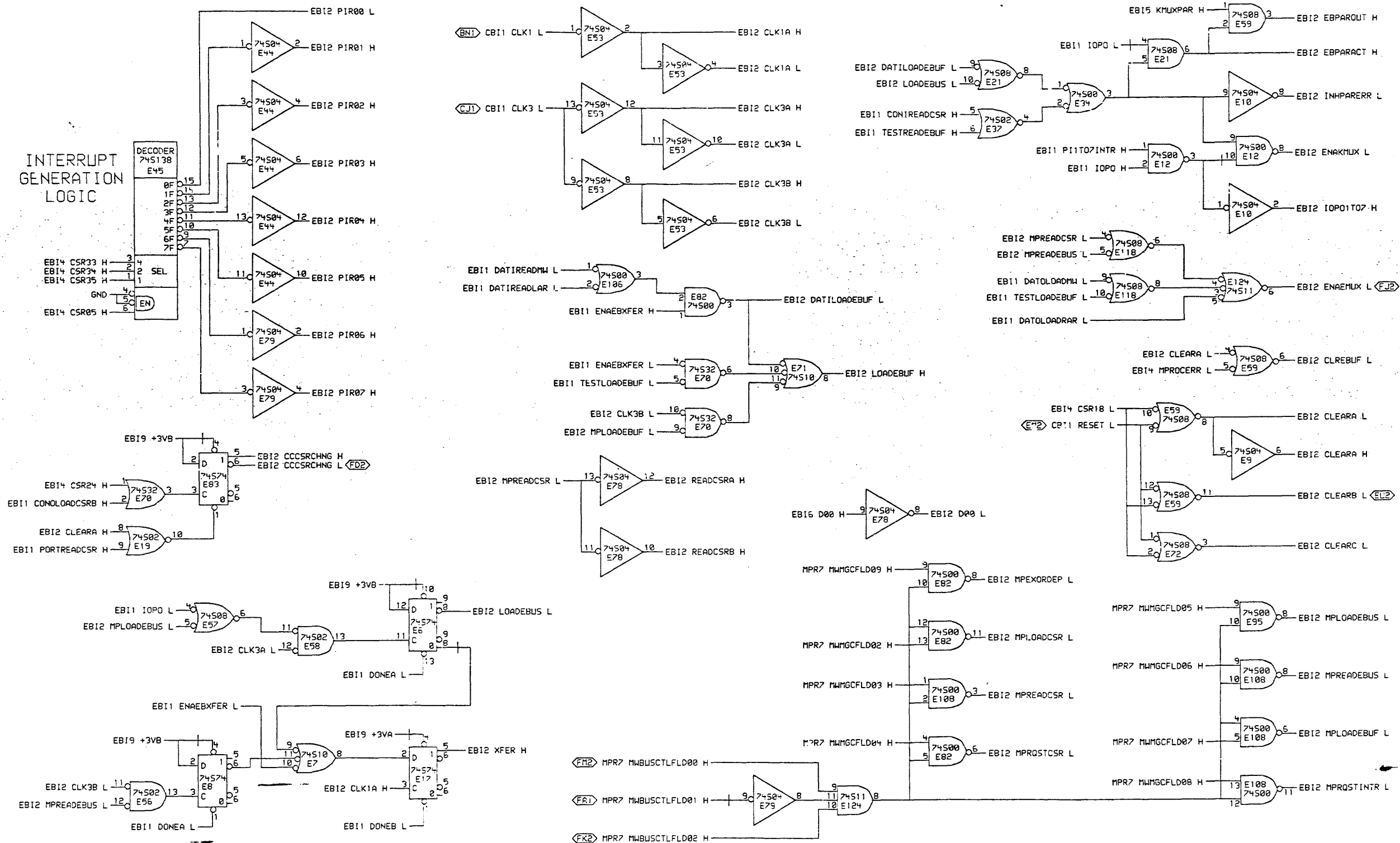
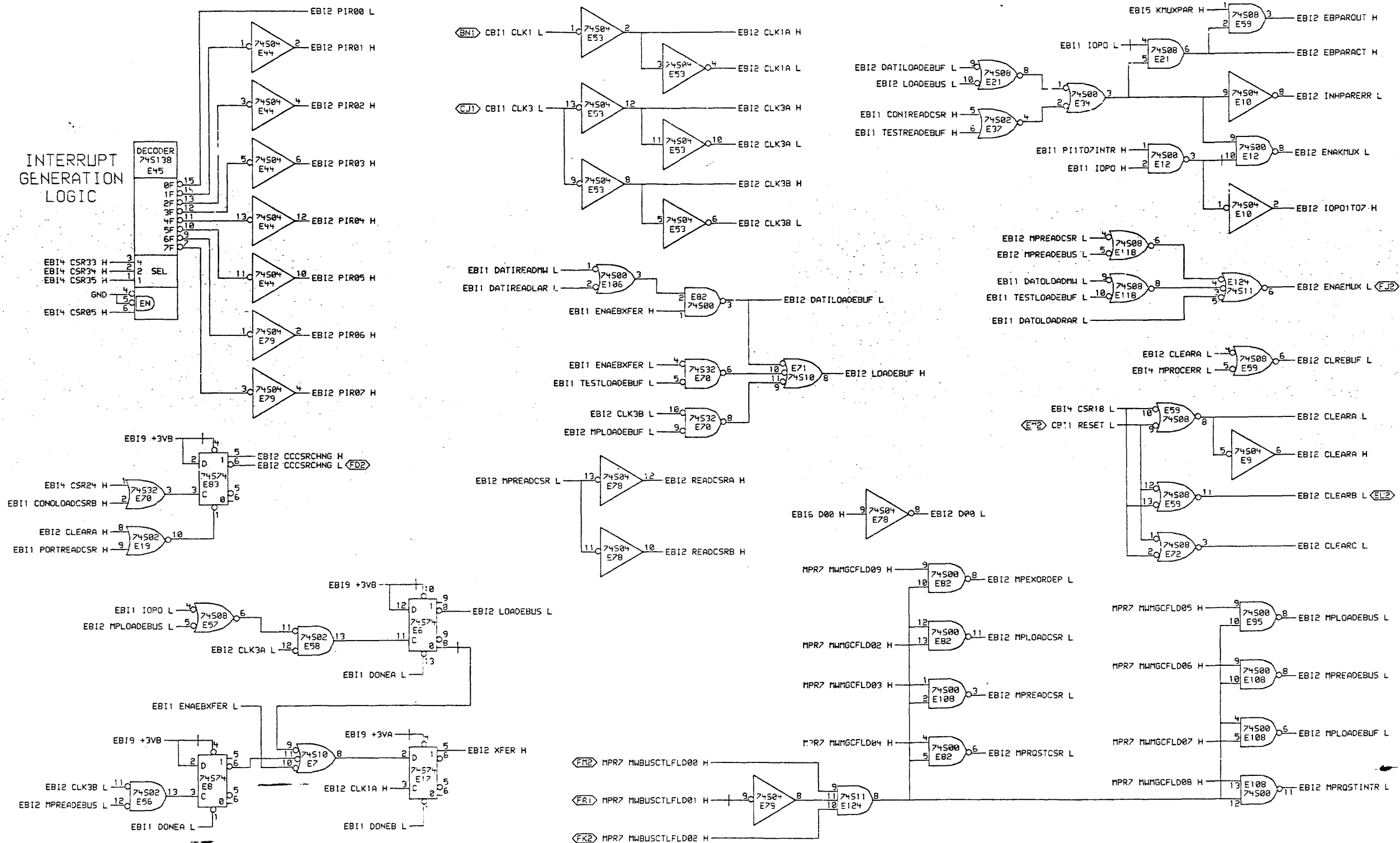
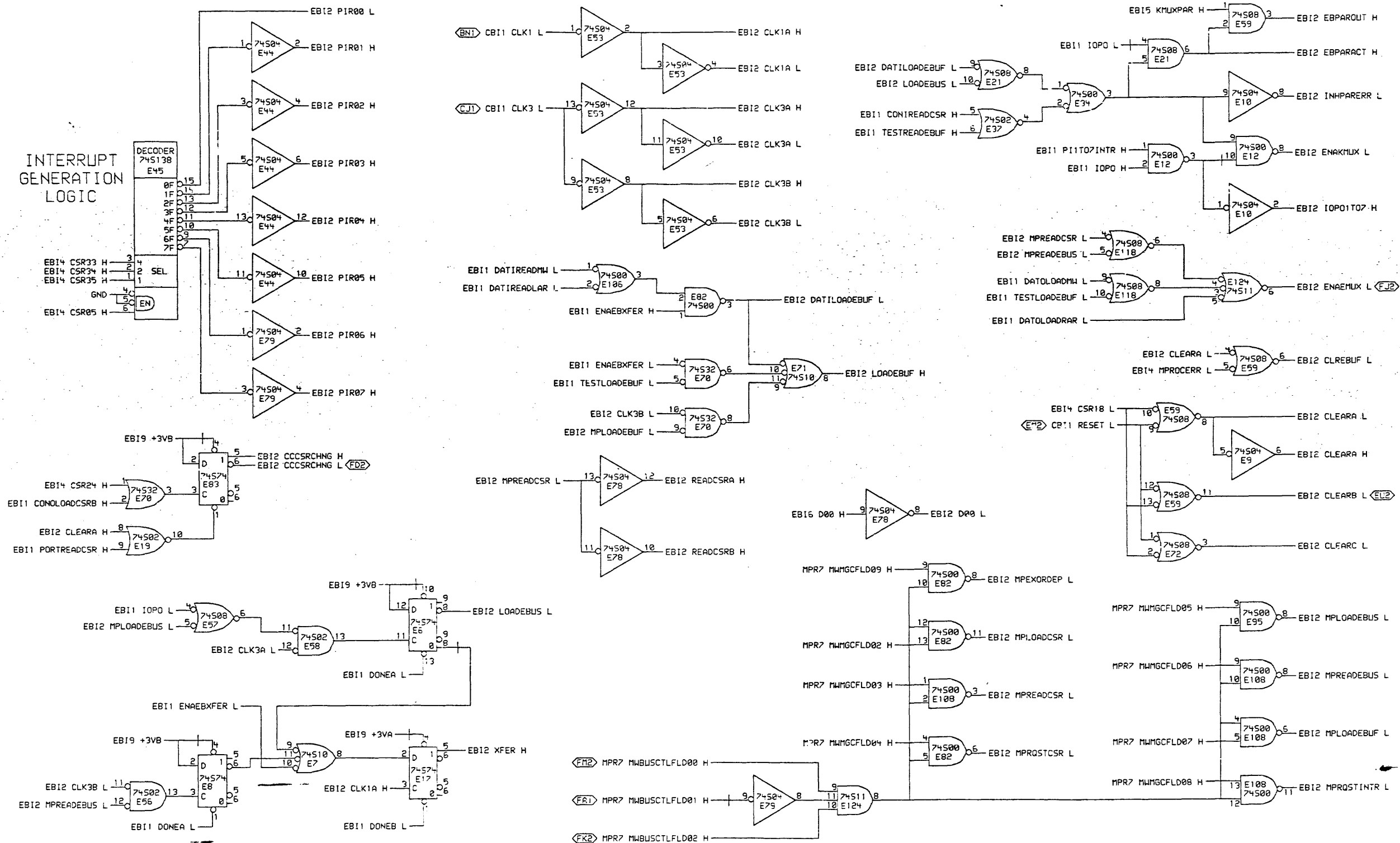
REVISION HISTORY		BASIC PART NO: M3001		DRN: D,DELLORCO		DATE: 14-OCT-82		D I G I T A L	
ENG	ECC NUMBER	REV	SECTION A OF A	CHK'D:	D,DELLORCO	DATE:	3-JAN-84	TITLE	PARTS LIST
---	INITIAL	A	SECTION VARIATION INDEX	---	---	---	---	M3001	---
UT	M3001-MR001	B	[A] .00	---	---	---	---	EBUS	---
EB	M3001-MR002	C	[B]	---	---	---	---	---	---
			[C]	DES,ENG:	R,CARN	DATE:	19-APR-84	DOCUMENT NUMBER	---
			[D]	---	---	---	---	SIZE	CODE
			[E]	---	---	---	---	NUMBER	REV
			[F]	RESP,ENG.:	R,CARN	DATE:	19-APR-84	K	PL
			[H]	---	---	---	---	M3001-0-DBP	C
			[J]	---	---	---	---	---	---
			[K]	MFG,ENG.:	R,CARN	DATE:	19-APR-84	RELEASE DATE:	18-FEB-85
			[L]	---	---	---	---	---	---
			[M]	ASSEMBLY NUMBER:	---	TOP DOCUMENT NUMBER:	---	FILE NAME:	EDIT #
			[N]	D-UA-M3001-0-0	---	#D-DD-M3001-0	---	Z8533C.PLS	18

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LINE ITEM		TCP	DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY 00 A3	PER VARIATION	REFERENCE DESIGNATOR
VARIATION REVISION LEVEL:									
28	29			1912828-00		LS85 COMPARATOR,4BIT MAGN	4		E4,E92,E93,E105
29	30			1912847-00		LS157 MUX 1 OF 2(QUAD)	14		E38,E51,E60,E61,E63-E65,E73,E85,
30	31			1912853-B0		LS175 BURNED-IN FF-D,QUAD	3	CONT	E96,E97,E109-E111
31	32			1913245-00		2901 BIPOLAR MICROPROCESSO	9		E62,E75,E80
32	33			1913340-B0		74S32 BURNED-IN OR GATE,QU	2		E120-E123,E126-E130
33	34			9000024-01		EYELET,ROLLED 0.1210DX0.192	12		E5,E70

DIGITAL				TITLE		SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				M3001						
				EBUS						
							K	PL	M3001-Q-DBP	C

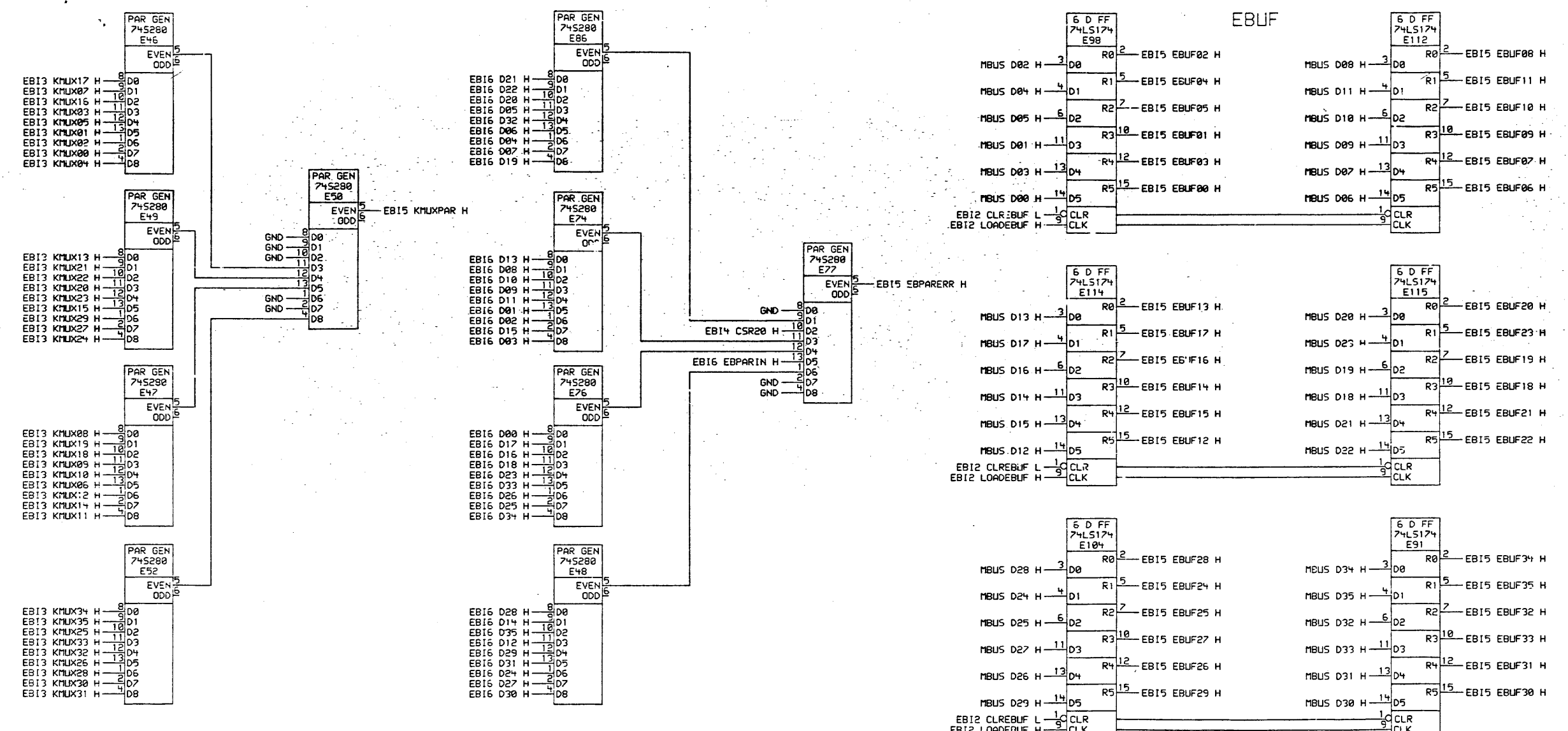


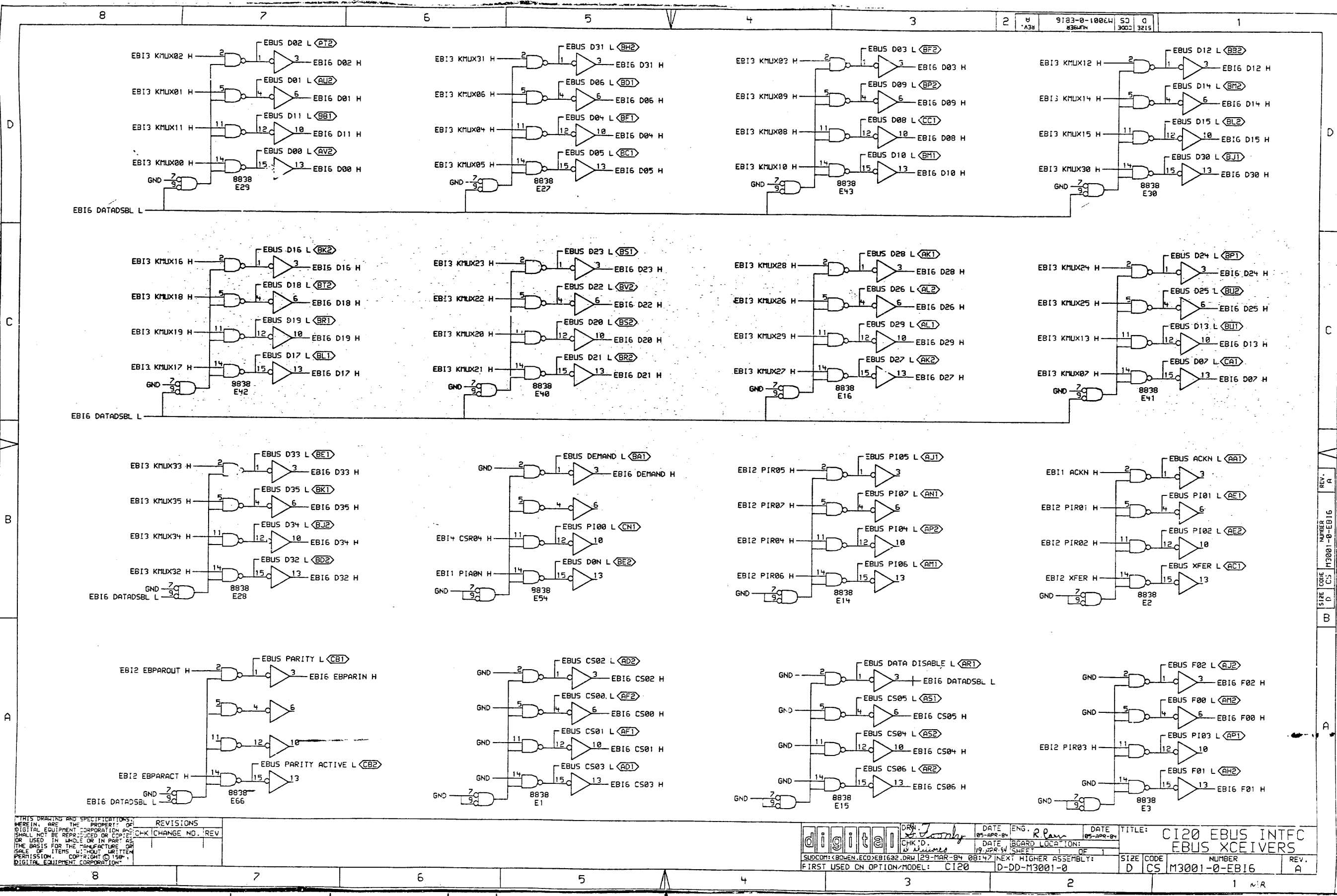


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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRW. <i>J. J. J.</i>	DATE <i>05-APR-84</i>	ENG. <i>R. Carr</i>	DATE <i>05-APR-84</i>	TITLE: C120 EBUS INTFC CONTROL 2
	CHK'D. <i>A. M. M.</i>	DATE <i>05-APR-84</i>	BOARD LOCATION: <i>05-APR-84</i>		
SUDCOM: (BOUEN.ECO)EB1203.DRW		29-MAR-84	08:44	NEXT HIGHER ASSEMBLY:	
FIRST USED ON OPTION/MODEL: C120		D-DD-M3001-0			
SIZE	CODE	NUMBER		REV.	
D	CS	M3001-0-EB12		A	





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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE 05-APR-84	ENG. R. L. L.	DATE 05-APR-84	TITLE: C120 EBUS INTFC EBUS XCEIVERS
	CHK'D. 12/1/84	DATE 19-APR-84	BOARD LOCATION: 1 OF 1	SIZE CODE D CS
	SUDCOM: (BOWEN.ECO)EB1602.DRW	29-MAR-84 08:47	NEXT HIGHER ASSEMBLY: D-DD-M3001-0	NUMBER M3001-0-EB16
FIRST USED ON OPTION/MODEL: C120				

D

C

B

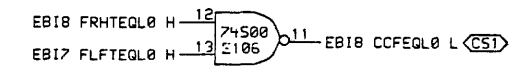
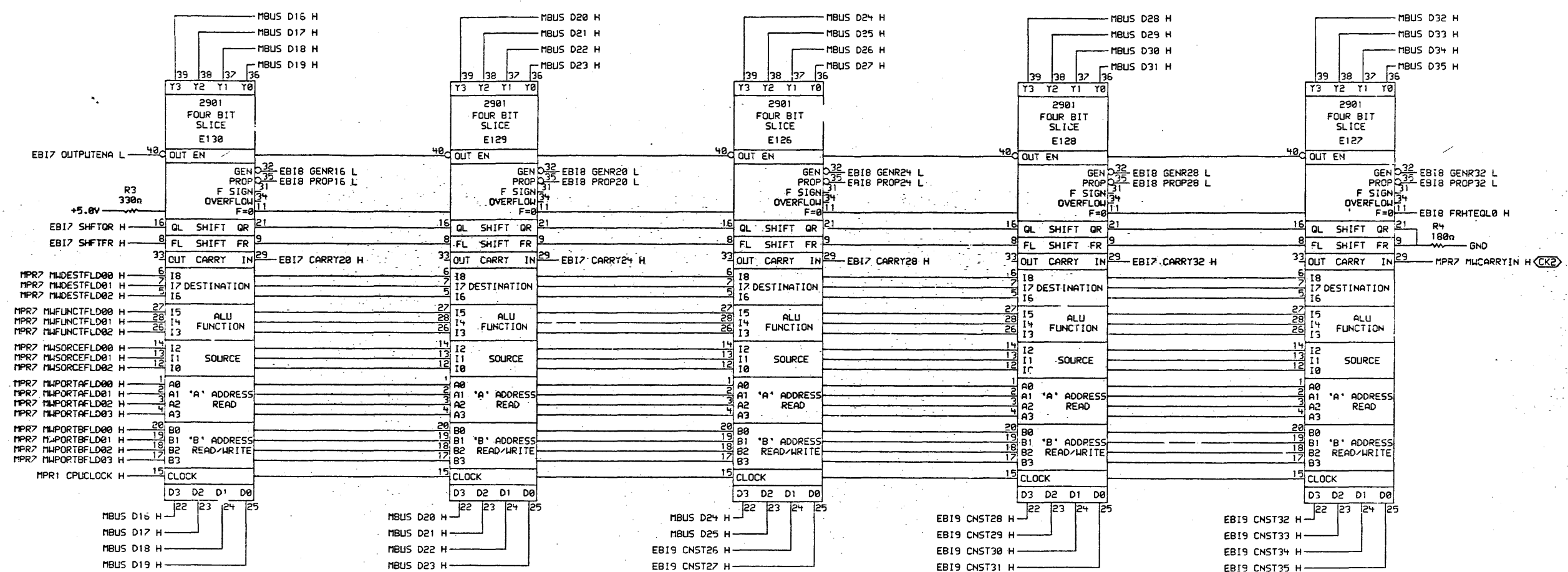
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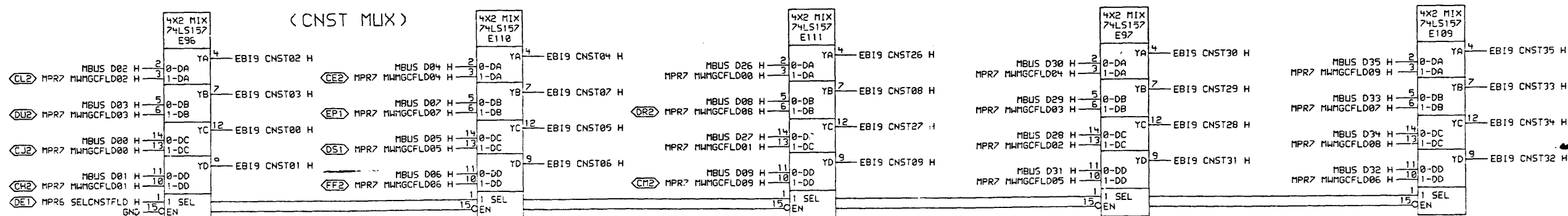
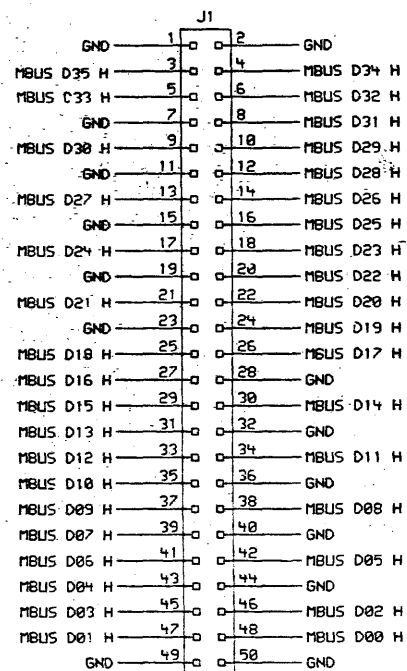
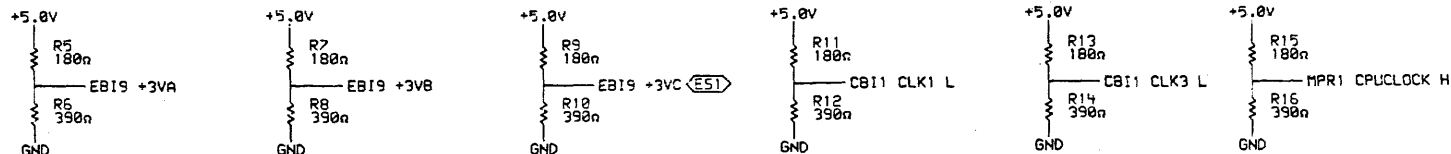
D

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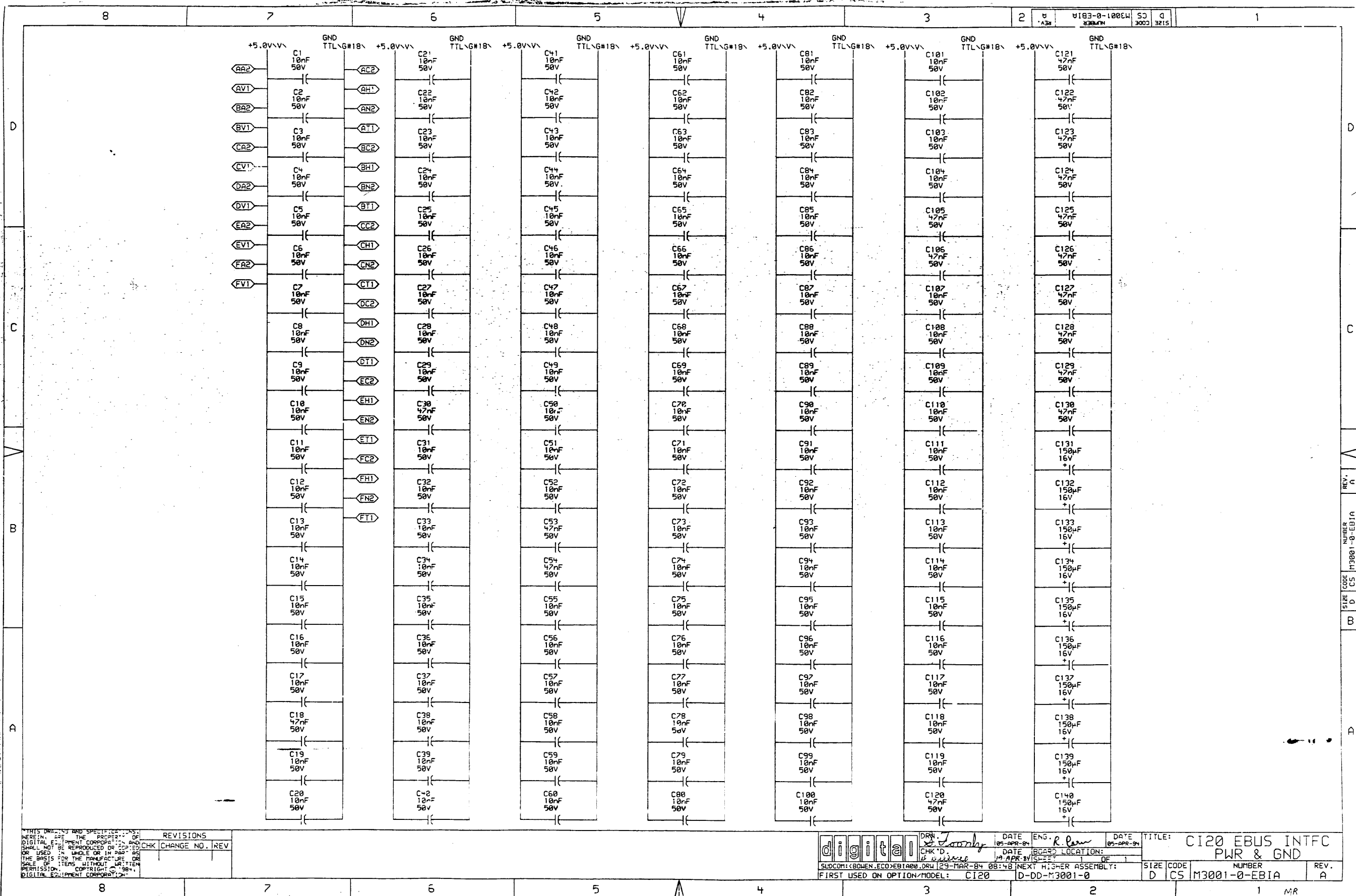




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REVISIONS
CHANGE NO. REV

digital	DATE	ENG.	DATE	TITLE:
	05-APR-84	R. L. L.	05-APR-84	CI20 EBUS INTFC UPROC CNST MUX
CHK'D.	DATE	BOARD LOCATION:	SIZE	CODE
05-APR-84	05-APR-84	1 OF 1	D	CS
SUBCOM: <304EN.ECD>E1900.DRW		NEXT HIGHER ASSEMBLY:		NUMBER
FIRST USED ON OPTION/MODEL: CI20		ID-DD-M3001-0		M3001-0-EBI9
				REV.
				A



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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE	105-APR-84	ENG.	R. Law	DATE	105-APR-84	TITLE:	C120 EBUS INTFC PWR & GND		
	CHK'D.	105-APR-84	DATE	105-APR-84	BOARD LOCATION:	1	OF	1		
SUDCOM:K80HEN.ECO:EBIA00.DRW:129-MAR-84 08:48 NEXT HIGHER ASSEMBLY:							SIZE	CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: C120							D	C5	M3001-0-EBIA	A

D

C

B

A

D

C

B

A

- AB1 N/C SEE NOTE 3
- AB2 N/C SEE NOTE 3
- AI1 N/C SEE NOTE 3
- CD1 N/C SEE NOTE 1
- CE1 N/C SEE NOTE 1
- CF1 N/C SEE NOTE 1
- CF2 CBI1 CLK2 L
- CK1 N/C SEE NOTE 1
- CL1 CBI1 CLK4 L
- CP1 N/C SEE NOTE 2
- CP2 N/C SEE NOTE 2
- CU1 N/C SEE NOTE 3
- DB1 N/C SEE NOTE 3
- DB2 N/C SEE NOTE 3
- DC1 N/C NOTE:EXTRA GND
- DH2 N/C NOTE:EXTRA GND
- DJ1 N/C SEE NOTE 2
- DK1 N/C SEE NOTE 2
- DN1 N/C NOTE:EXTRA GND
- DS2 N/C SEE NOTE 1
- DT2 N/C NOTE:EXTRA GND
- DU1 N/C SEE NOTE 3
- DV2 N/C SEE NOTE 2
- EB1 N/C SEE NOTE 3
- EB2 N/C SEE NOTE 3
- EC1 N/C NOTE:EXTRA GND
- ED2 N/C SEE NOTE 1
- EH2 N/C NOTE:EXTRA GND
- EJ1 N/C NOTE:EXTRA GND
- EK1 N/C NOTE:EXTRA GND
- EL2 N/C SEE NOTE 1
- EM1 N/C SEE NOTE 2
- EN1 N/C NOTE:EXTRA GND
- EP2 N/C NOTE:EXTRA GND
- ER1 N/C SEE NOTE 2
- ER2 N/C SEE NOTE 2
- ET2 N/C NOTE:EXTRA GND
- EU1 N/C SEE NOTE 3
- EV2 N/C SEE NOTE 1
- FB1 N/C SEE NOTE 3
- FB2 N/C SEE NOTE 3
- FC1 N/C NOTE:EXTRA GND
- FE2 N/C SEE NOTE 2
- FH2 N/C NOTE:EXTRA GND
- FK1 N/C SEE NOTE 1
- FM1 N/C SEE NOTE 1
- FN1 N/C NOTE:EXTRA GND
- FP1 MPR7 MARKBIT H
- FR1 N/C SEE NOTE 1
- FS1 N/C SEE NOTE 2
- FS2 N/C SEE NOTE 1
- FT2 N/C SEE NOTE 2
- FU1 N/C SEE NOTE 3
- FL2 N/C NOTE:EXTRA GND
- FV2 N/C SEE NOTE 2

NOTE 1: THESE PINS ARE CONNECTED AS SHOWN BELOW

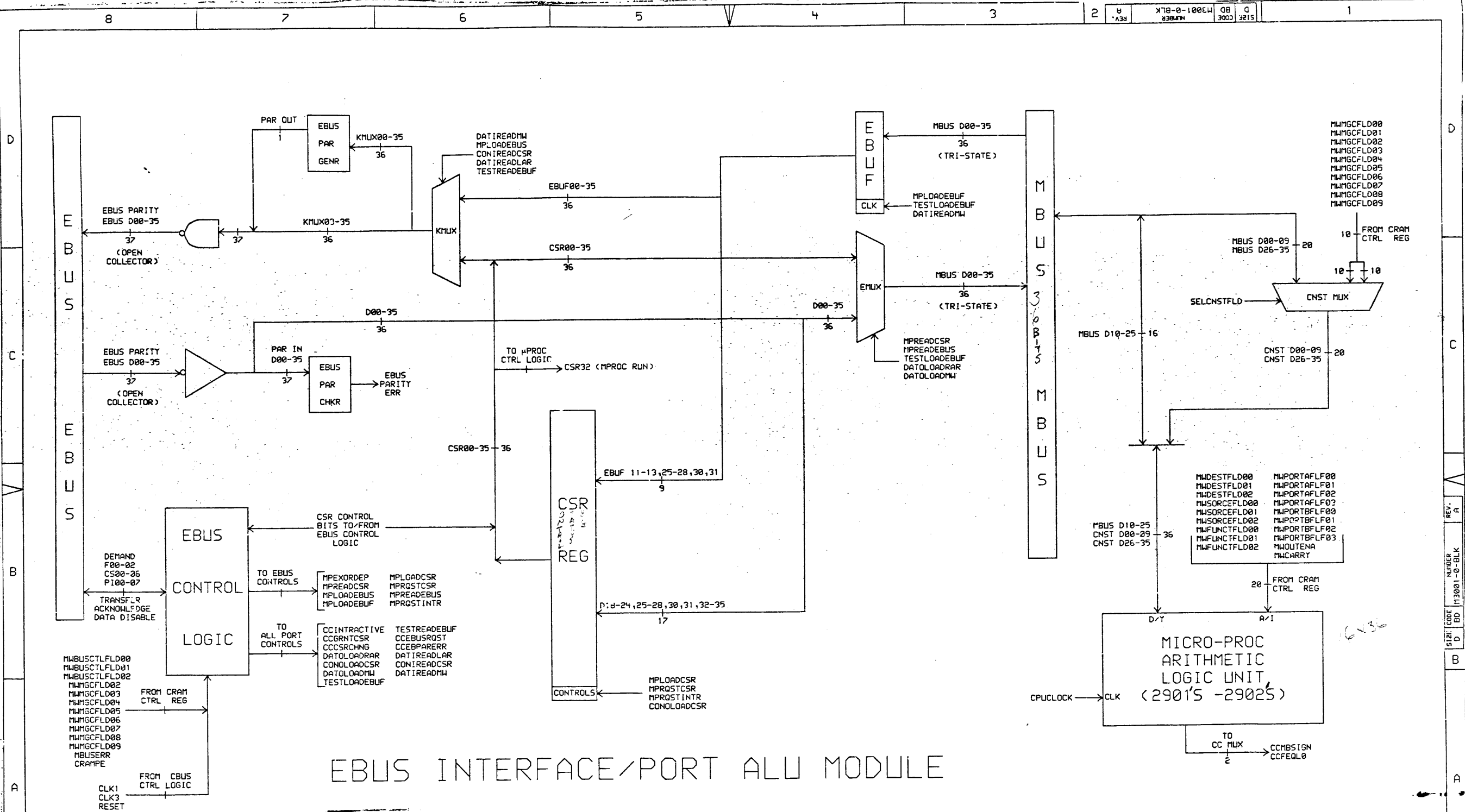
FROM	TO
C13D1	A14A1
C13E1	A14U2
F13R1	B14H2
F13M1	B14K1
D13S2	B14K2
E13L2	B14R1
E13D2	C14J1
C13F1	C14R2
C13K1	D14H2
F13K1	D14J1
E13V2	A15U2
F13S2	A15J1

NOTE 2: THESE PINS DO NOT CONNECT TO EITHER THE MPROC OR CBUS
NOTE 3: RSVD FOR -5.2V

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE 05-APR-84	ENG. R. P. ...	DATE 05-APR-84	TITLE: CI20 EBUS INTFC UNUSED FINGER
	CHK'D. W. ...	DATE 19-APR-84	BOARD LOCATION: SHEET 1 OF 1	
SUDCOM: \BOWEN.ECO\EBIB00.DRW 129-MAR-84 08:49		NEXT HIGHER ASSEMBLY: D-DD-M3001-0		
FIRST USED ON OPTION/MODEL: CI20		SIZE CODE D CS	NUMBER M3001-0-EBIB	REV. A



EBUS INTERFACE/PORT ALU MODULE

8

7

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1

C

REV

A38

0-2000

M3002

QC

D

300

3215

1

DRAWING NUMBER

PAGE

PART NO.

DESCRIPTION

REVISIONS

ECO NUMBER

-

M3002
M3001

M3002-00

MODULE REVISION

A1

A1

D-UA-M3002-0-0

1

MICRO PROCESSOR

A

A1

K-PL-M3002-0-DBP

2

PARTS LIST, M3002

A

A1

D-CS-M3002-0-MPR1

1

CI20 MPROC CONT CTRL LOGIC 1

A

A

D-CS-M3002-0-MPR2

1

CI20 MPROC CONT CTRL LOGIC 2

A

A

D-CS-M3002-0-MPR3

1

CI20 MPROC CONT SEQR AND RAM ADDR

A

A

D-CS-M3002-0-MPR4

1

CI20 MPROC CONT CRAM RAM 1

A

A

D-CS-M3002-0-MPR5

1

CI20 MPROC CONT CRAM RAM 2

A

A

D-CS-M3002-0-MPR6

1

CI20 MPROC CONT CRAM PARITY

A

A

D-CS-M3002-0-MPR7

1

CI20 MPROC CONT CRAM REG

A

A

D-CS-M3002-0-MPR8

1

CI20 MPROC CONT LOCAL STORAGE

A

A

D-CS-M3002-0-MPR9

1

CI20 MPROC CONT CRAM LOAD 1

A

A

D-CS-M3002-0-MPRA

1

CI20 MPROC CONT CRAM LOAD 2

A

A

D-CS-M3002-0-MPRB

1

CI20 MPROC CONT PWR AND GND

A

A

D-CS-M3002-0-MPRC

1

CI20 MPROC CONT UNUSED FINGERS

A

A

D-BD-M3002-0-BLK

1

BLOCK DIAGRAM MICROPROCESSOR MOD

A

A

K-PC-M3002-0-DBI

-

P.C. DESIGN DATA BASE

A

A

D-DD-5015385-0

2

DRAWING DIRECTORY, 5015385

REF

REF

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REVISIONS

CHK CHANGE NO. REV

digital

DRN.
D. DELLORCO
CHK'D.
D. CAUNTERDATE
19-FEB-85
ENG.
E BLOOM
DATE
19-FEB-85
BOARD LOCATION: N/ADATE
19-FEB-85
SHEET
1 OF 2TITLE: DRAWING DIRECTORY
M3002DSK: M30021.T2P(4,57) 119-FEB-85 13:07
FIRST USED ON OPTION/MODEL: CI20SIZE CODE
D DD
NUMBER
M3002-0
REV.
C

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1

MRO

DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS	
				M3002 MR001	M3002 MR002
		M3002-00	MODULE REVISION	A2	A3
D-UA-M3002-0-0	1		MICRO PROCESSOR	B	C
K-PL-M3002-0-DBP	2		PARTS LIST, M3002	B	C
D-CS-M3002-0-MPR1	1		CI20 MPROC CONT CTRL LOGIC 1	A	A
D-CS-M3002-0-MPR2	1		CI20 MPROC CONT CTRL LOGIC 2	A	A
D-CS-M3002-0-MPR3	1		CI20 MPROC CONT SEQ# AND RAM ADDR	A	A
D-CS-M3002-0-MPR4	1		CI20 MPROC CONT CRAM RAM 1	A	A
D-CS-M3002-0-MPR5	1		CI20 MPROC CONT CRAM RAM 2	A	A
D-CS-M3002-0-MPR6	1		CI20 MPROC CONT CRAM PARITY	A	A
D-CS-M3002-0-MPR7	1		CI20 MPROC CONT CRAM REG	A	A
D-CS-M3002-0-MPR8	1		CI20 MPROC CONT LOCAL STORAGE	A	A
D-CS-M3002-0-MPR9	1		CI20 MPROC CONT CRAM LOAD 1	A	A
D-CS-M3002-0-MPRA	1		CI20 MPROC CONT CRAM LOAD 2	A	A
D-CS-M3002-0-MPRB	1		CI20 MPROC CONT PWR AND GND	A	A
D-CS-M3002-0-MPRC	1		CI20 MPROC CONT UNUSED FINGERS	A	A
D-BD-M3002-0-BLK	1		BLOCK DIAGRAM MICROPROCESSOR MOD	A	A
K-PC-M3002-0-DBI	-		P.C. DESIGN DATA BASE	B	B
D-DD-5015385-0	2		DRAWING DIRECTORY, 5015385	REF	REF

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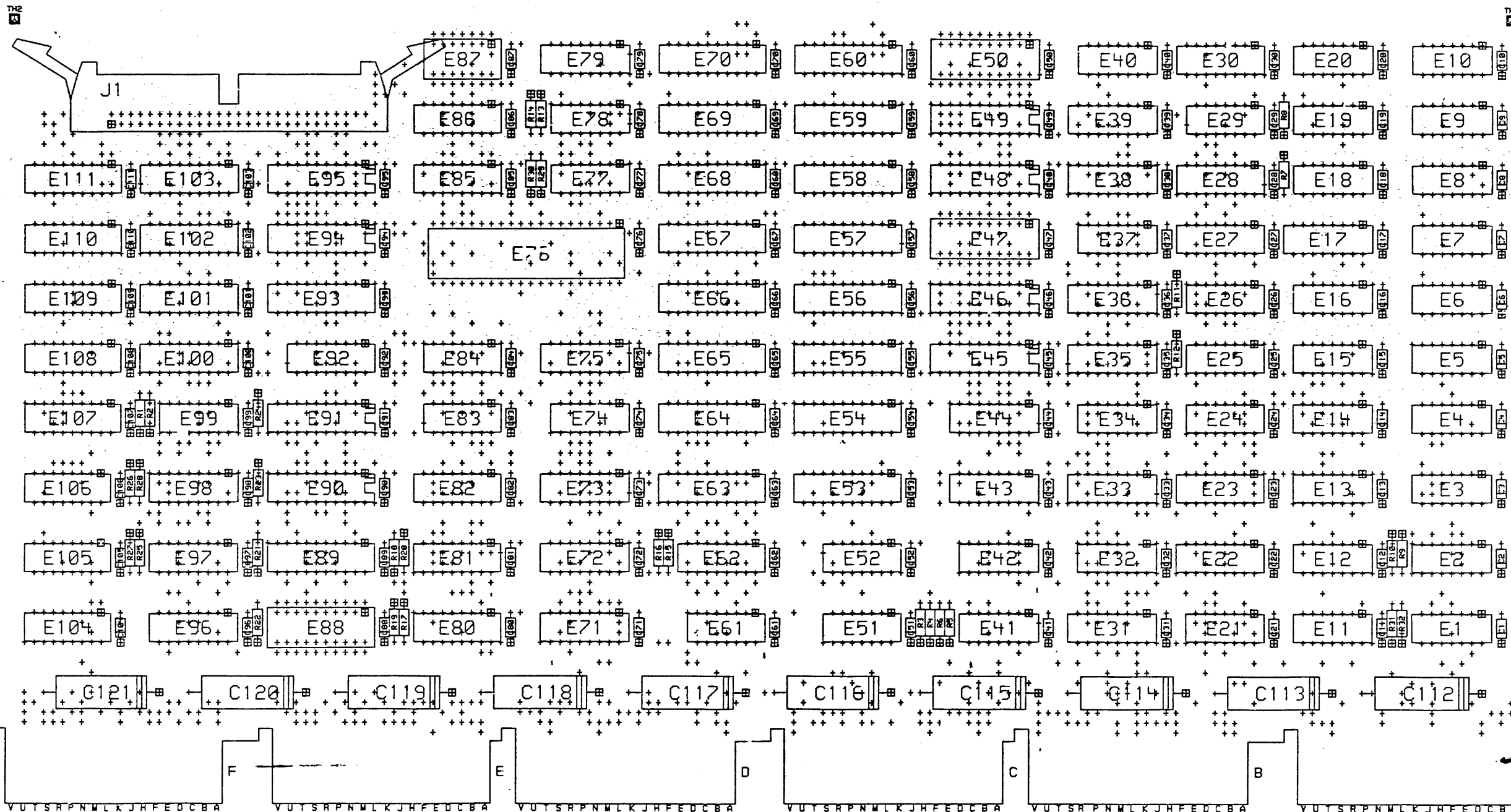
REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. D. DELLORCO	DATE 19-FEB-85	ENG. E BLOOM	DATE 19-FEB-85	TITLE: DRAWING DIRECTORY M3002
	CHK'D D. CAUNTER	DATE 19-FEB-85	BOARD LOCATION: N/A	SHEET 2 OF 2	
DSK: M30022.T2PL4,573		19-FEB-85 13:02		NEXT HIGHER ASSEMBLY:	
FIRST USED ON OPTION/MODEL: CI20		SIZE D	CODE DD	NUMBER M3002-0	REV. C

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36(QTY.12) COMPONENT SIDE VIEW

35



NOTES: SPARE COMPONENT LOCATIONS:
E47, E50, E87, E88

2 THIS BOARD MUST MEET SAFETY
REQ. FOR "HPWR"

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

CHK	CHANGE	NO	REV
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
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121	121	121	121

ETCH REV. C1

SIGNATURES	DATE	TITLE
ORN. D. S. [Signature]	2/2/84	digital
CHK. D. S. [Signature]	2/2/84	
MECH. ENG. [Signature]	2/2/84	
PROJ. ENG. [Signature]	2/2/84	
PROD. [Signature]	2/2/84	
SCALE 2/1		
SHT. 1 OF 1		
TOP DOC NO: D-DD-M3002-0		

LINE ITEM	TCP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				VARIATION REVISION LEVEL:	00		
					A3		
1	1	D-MD-5015385-0-0	5015385-01	C DRILL & ETCH DWG FOR M3002	1		
2	2		1001610-00	.01 MFD 50V +80-20% 25U CER	76		
3	3		1012784-00	.047 MFD 50V +80-20% CER	35	CONT	C1-C10,C12-C50,C52,C61,C62,C71,C73-C75,C77-C84,C87,C90-C99,C104
						CONT	C11,C51,C53-C60,C63-C70,C72,C76,C85,C86,C88,C89,C100-C103,
						CONT	C105-C111
4	4		1012084-03	150 MFD 15V +75-10% AL EL	10		C112-C121
5	5		1910536-B0	74S10 BURNED-IN NAND GATE-	1		E1
6	6		1910544-B0	74S74 BURNED-IN FF-D DUAL,	3		E2,E6,E13
7	7		1910532-B0	74S00 BURNED-IN NAND GATE-	1		E3
8	8		1910534-B0	74S04 BURNED-IN INVERTER G	8		E4,E7,E12,E20,E26,E40,E41,E77
9	9		1912389-B0	74S08 BURNED-IN AND GATE,Q	4		E5,E14,E21,E99
10	10		1910542-B0	74S64 BURNED-IN A-O-I GATE	4		E8,E9,E18,E19
11	11		1910539-B0	74S20 BURNED-IN NAND GATE-	1		E10
12	12		1912746-B0	74S37 BURNED-IN NAND GATE-	3		E11,E51,E84
13	13		1912388-B0	74S02 BURNED-IN NOR GATE-Q	3		E15,E52,E83
14	14		1910537-B0	74S11 BURNED-IN AND GATE-T	1		E16
15	15		1911675-B0	74S138 BURNED-IN DECODER/DE	1		E17
16	16		1910956-00	74S151 MUX 1 OF 8	2		E22,E31
17	17		1912697-00	LS174 FF-D HEX W/CLEAR	3		E23,E98,E106
18	18		1911573-B0	74S280 BURNED-IN PARITY GEN	8		E24,E29,E32,E34,E37,E42,E61,E74
19	19		1913340-B0	74S32 BURNED-IN OR GATE,QU	1		E25
20	20		1910550-B0	74S174 BURNED-IN FF-D HEX	11	CONT	E27,E28,E33,E35,E38,E43,E62,E72,E73,E75,E96
21	21		1911641-B0	74S257 BURNED-IN MUX,QUAD 2	8		E30,E36,E39,E44,E81,E82,E85,E86
22	22		1913493-B0	74S241 BURNED-IN OCTAL BUFF	8		E45,E46,E48,E49,E90,E91,E94,E95
23	23		2119250-00	4KX4 STATIC RAM 55NS	16		E53-E60,E63-E70
24	24		1910548-B0	74S157 BURNED-IN MUX 1 OF 2	5		E71,E80,E97,E104,E105
25	25		1916358-00	CONTROLLER,MICROPROG	1		E76
26	26		1911712-B0	74S51 BURNED-IN AND/OR GAT	1		E78

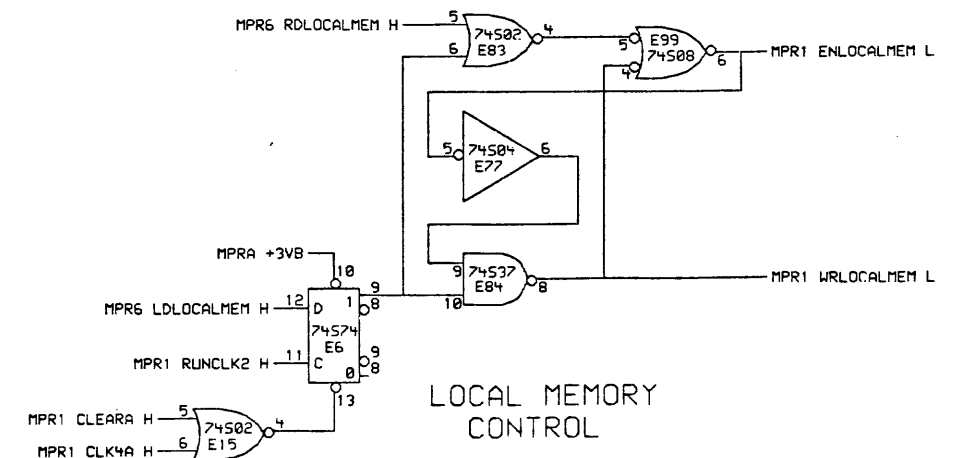
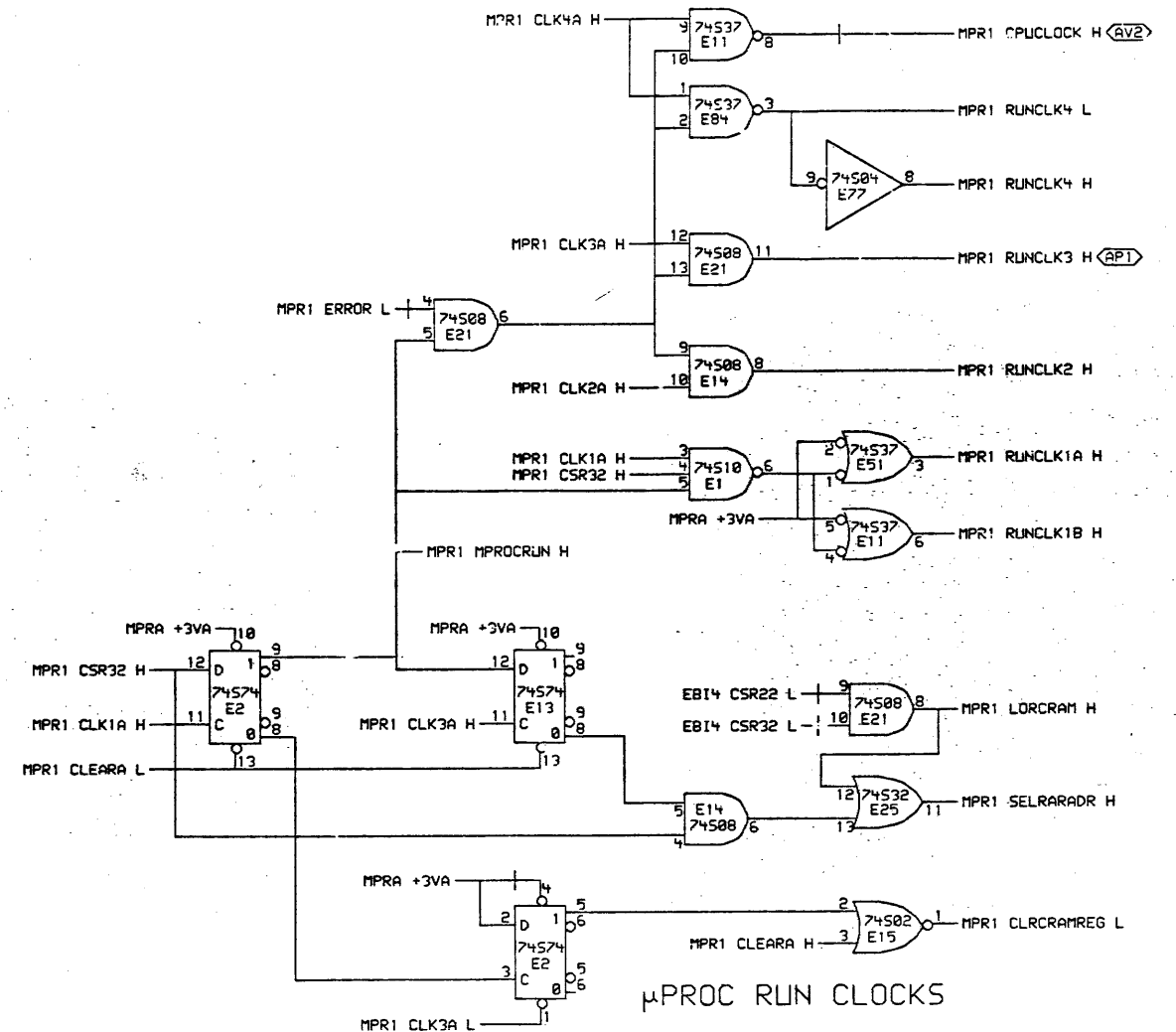
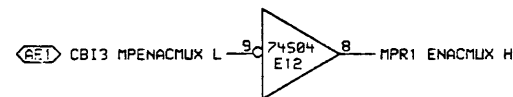
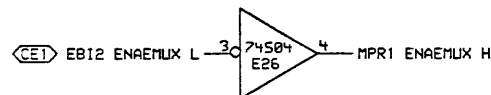
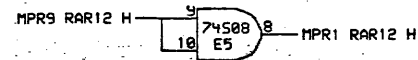
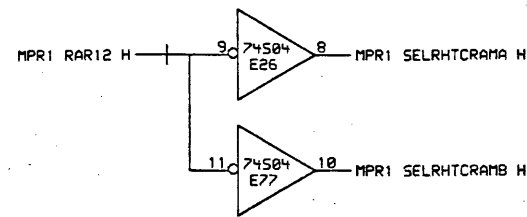
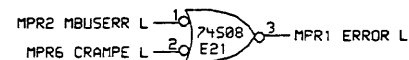
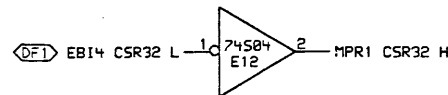
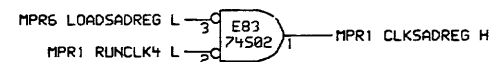
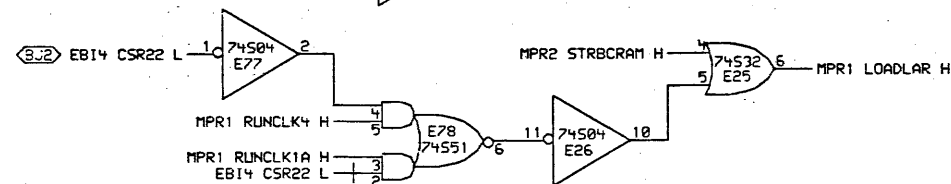
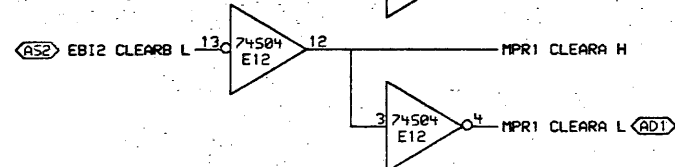
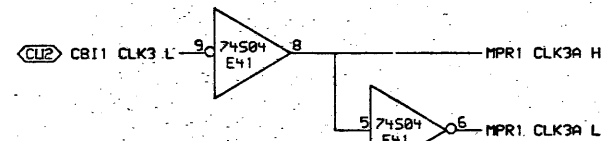
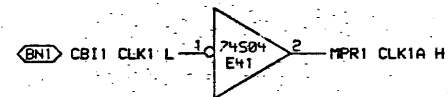
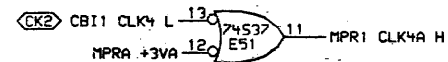
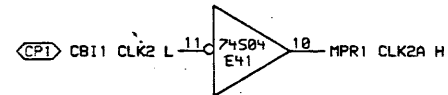
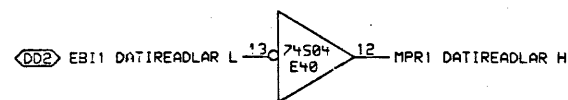
REVISION HISTORY			BASIC PART NO: M3002			DRN: D,DELLORCO			DATE: 5-APR-83			D I G I T A L		
ENG	ECC NUMBER	REV	SECTION A OF A											
---	INITIAL	A	SECTION VARIATION INDEX			CHK'D: R.W.CAUNTER			DATE: 7-APR-83			TITLE PARTS LIST		
JT	M3002-MR001	B	[A] 00									M3002		
EB	M3002-MR002	C	[B]									MICRO PROCESSOR		
			[C]			DES.ENG: R.CARN			DATE: 19-APR-84			DOCUMENT NUMBER		
			[D]									SIZE CODE NUMBER		
			[E]									REV		
			[F]			RESP.ENG.: R.CARN			DATE: 19-APR-84			K PL M3002-0-DBP		
			[H]									C		
			[J]											
			[K]			MFG.ENG.: R.CARN			DATE: 19-APR-84			RELEASE DATE: 18-FEB-85		
			[L]											
			[M]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:		
			[N]			D-UA-M3002-0-0			D-DD-M3002-0			Z8532C.PLS		
												9		

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LINE	ITEM	TCP	DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
						VARIATION REVISION LEVEL:	00		
							A3		
27	27			1912847-00		LS157 MUX 1 OF 2(QUAD)	2		E79,E92
28	28			1914214-00		LS374 FF-D OCTAL EDGE TRIG	2		E89,E93
29	29			2116957-03		1K MOS RAM 55NS 1	9		E100-E103,E107-E111
30	30			1216832-03		PCB,HEADER 50POS(2X25).100CC 90D	1		J1
31	31			1301322-00		180.0 .25 W 5.0 % CF	10		R1,R4,R6,R8,R9,R12,R13,R15,R29,
								CONT	R31
32	32			1300309-00		390.0 .25 W 5.0 % CF	10		R2,R3,R5,R7,R10,R11,R14,R16,R30,
								CONT	R32
33	33			1300202-00		47.0 .25 W 5.0 % CF	12		R17-R28
34	34			1215278-00		CABLE,FLEX NOMEX SHEET MODULE PR	1		
35	35			1216988-02		HANDLE,MODULE,HEX TWO EJECTORS	1		
36	36			9000024-01	A	EYELET,ROLLED 0.1210DX0.192	12		

37 NOTE: 1. SPARE COMPONENT LOCATIONS ARE: E47,E50,E87,E88

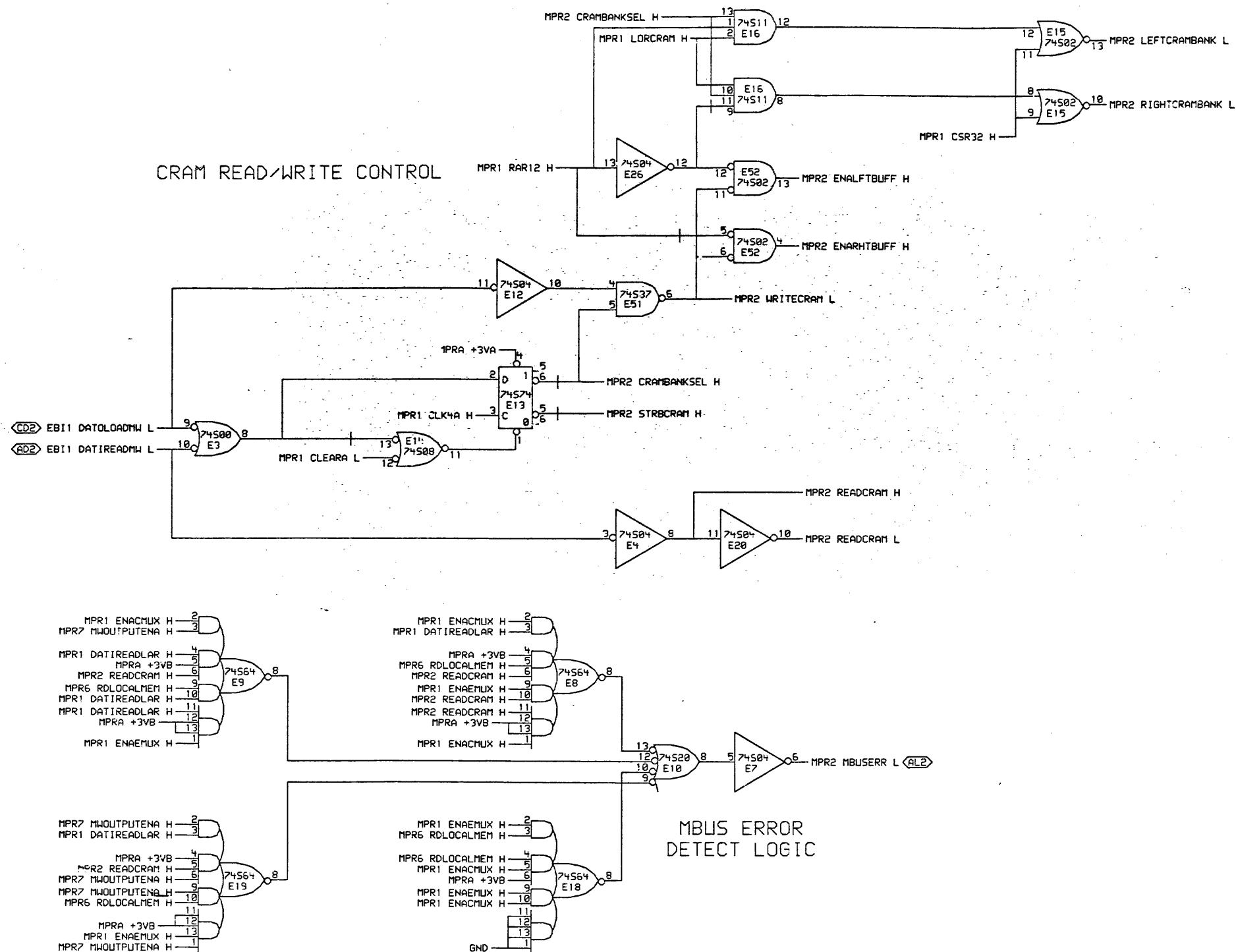
DIGITAL				TITLE		SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				M3002						
				MICRO PROCESSOR						
							K	PL	M3002-0-DBP	C



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REVISIONS
CHK CHANGE NO. REV

digital
DATE 04-APR-84 ENG Rlan
DATE 19 APR 84 BOARD LOCATION: 1
SHEET 1 OF 1
SUBCOM: BOWEN.ECO MPR100.DRW 129-MAR-84 09:51 NEXT HIGHER ASSEMBLY: FIRST USED ON OPTION/MODEL: C120 D-DD-M3002-0
TITLE: C120 MPROC CONT CTRL LOGIC 1
SIZE CODE D CS
NUMBER M3002-0-MPR1
REV. A



D

C

B

A

D

C

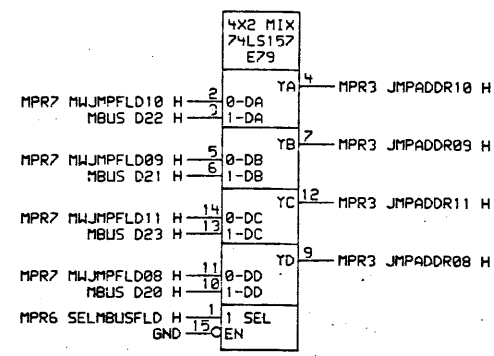
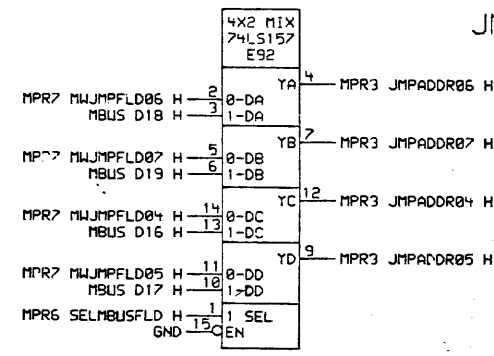
REV

A

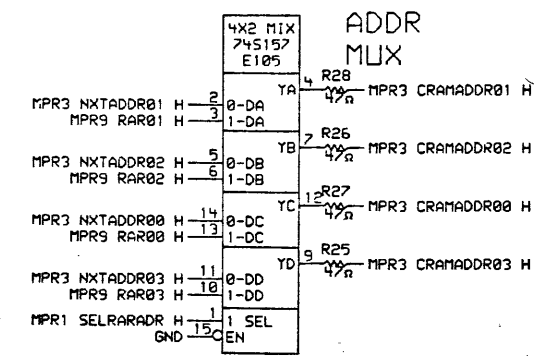
B

A

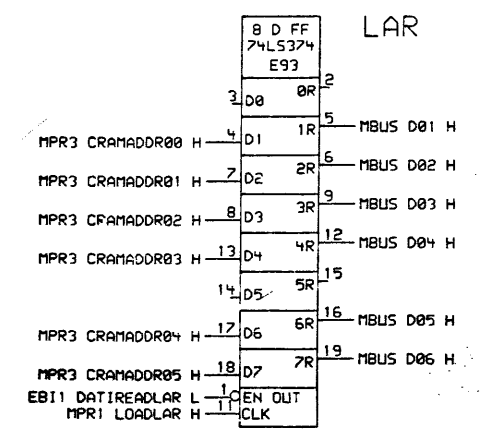
JMP MUX



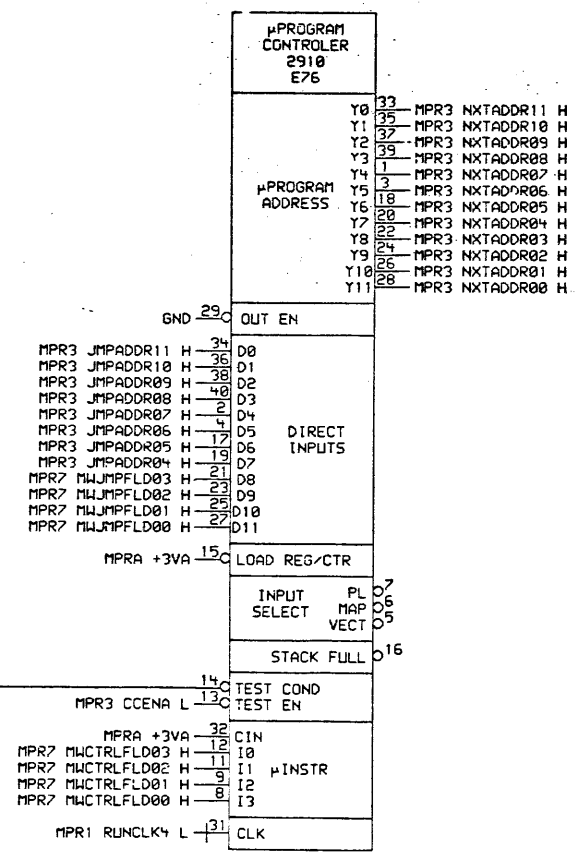
ADDR MUX



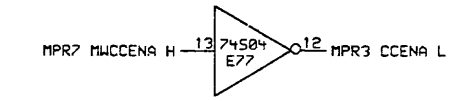
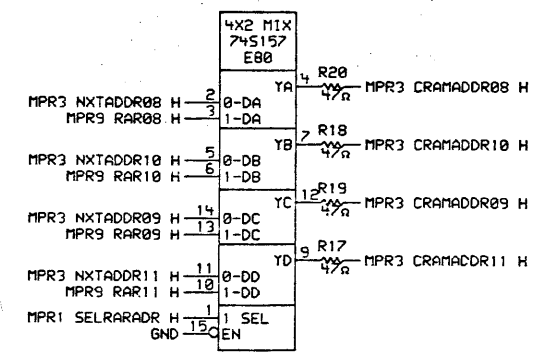
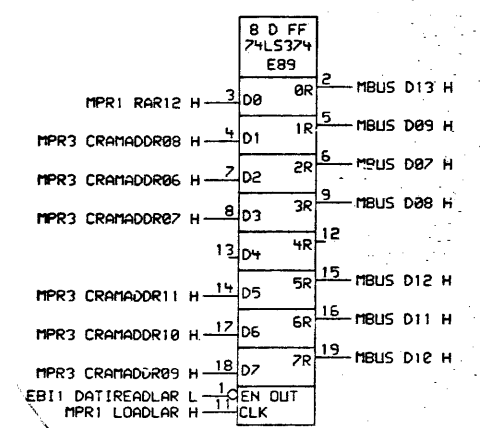
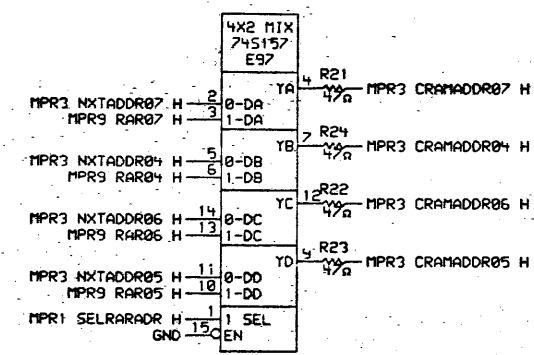
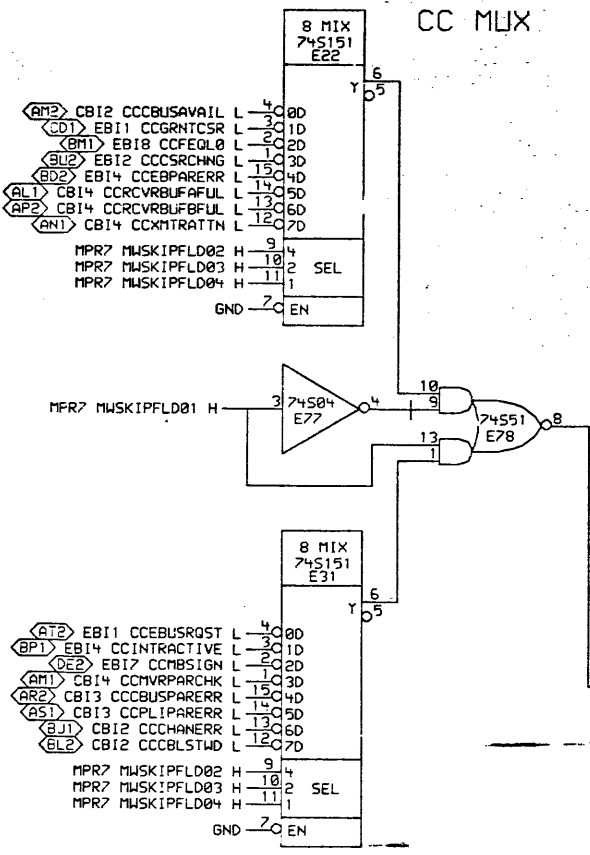
LAR



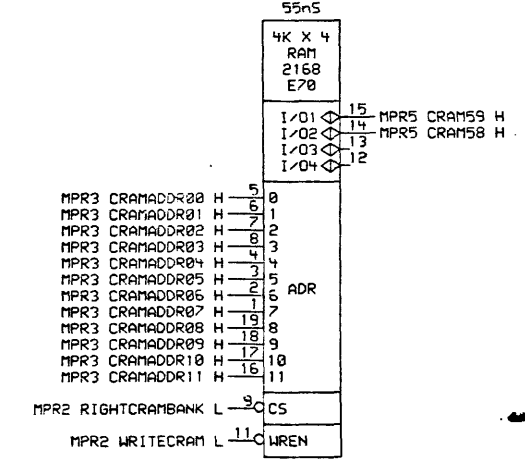
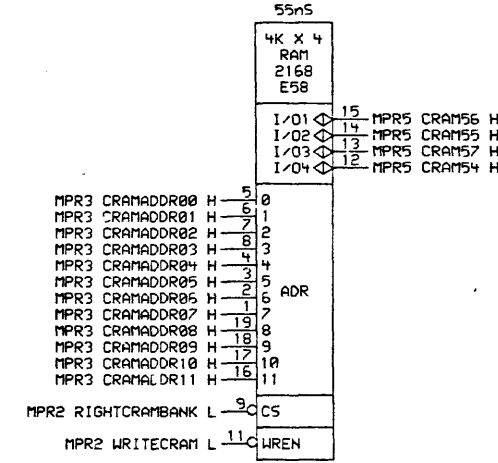
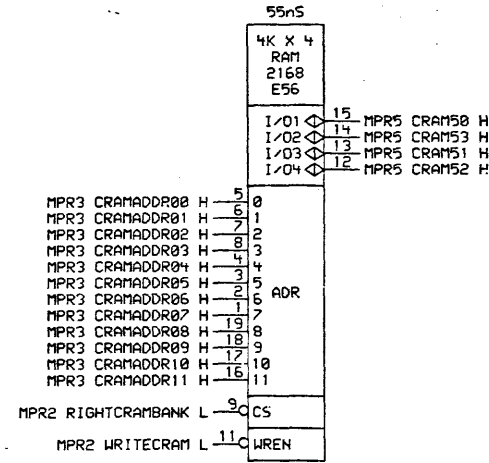
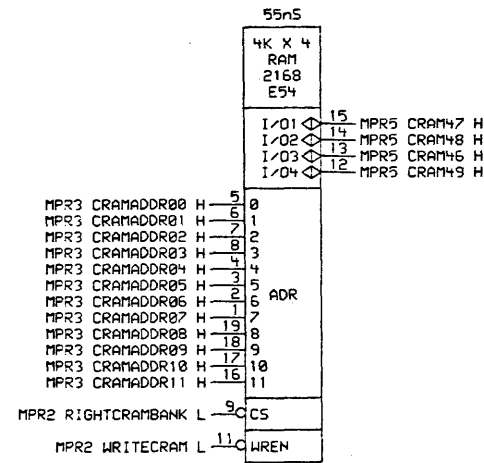
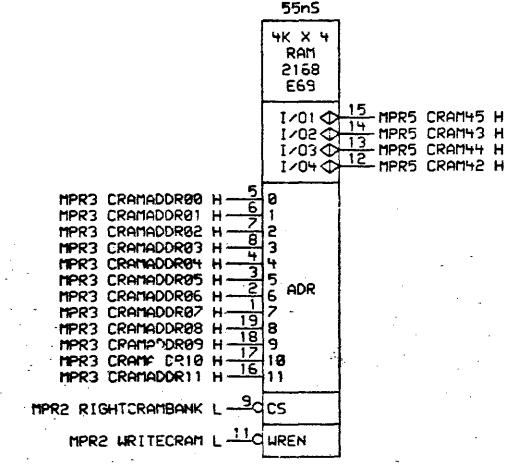
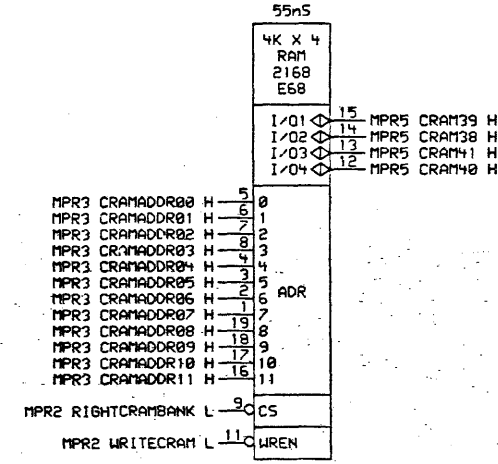
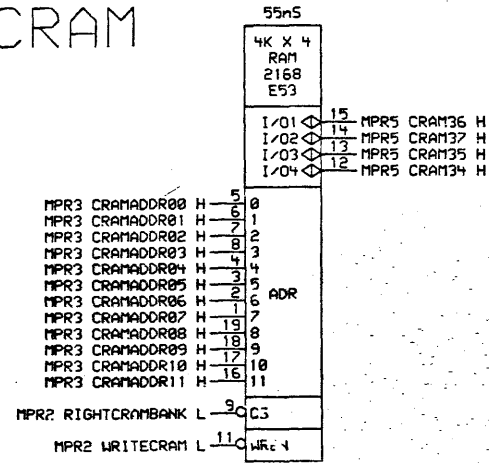
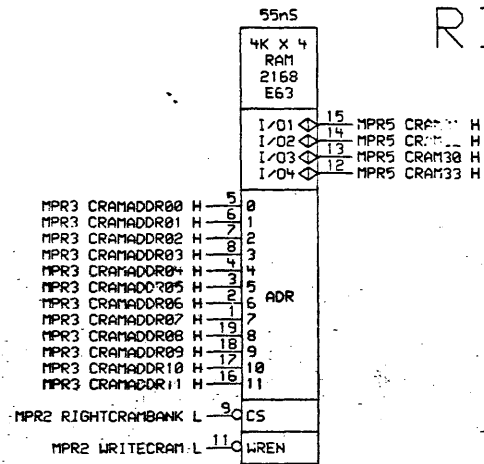
MICROSEQR



CC MUX



RIGHT CRAM

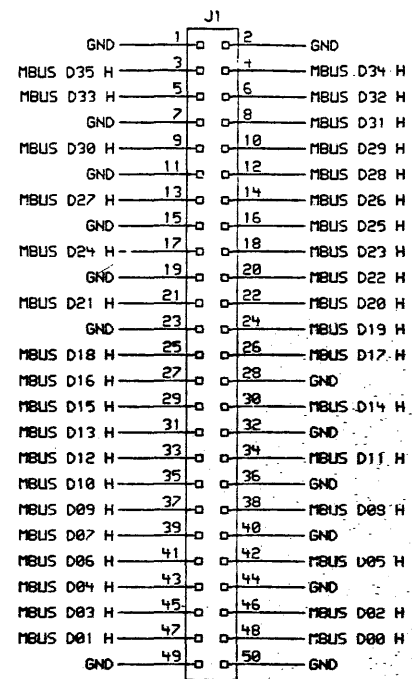
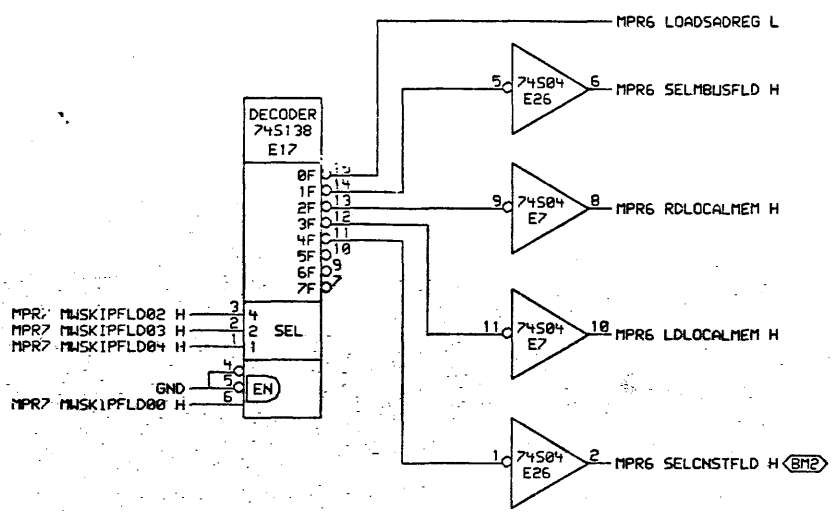


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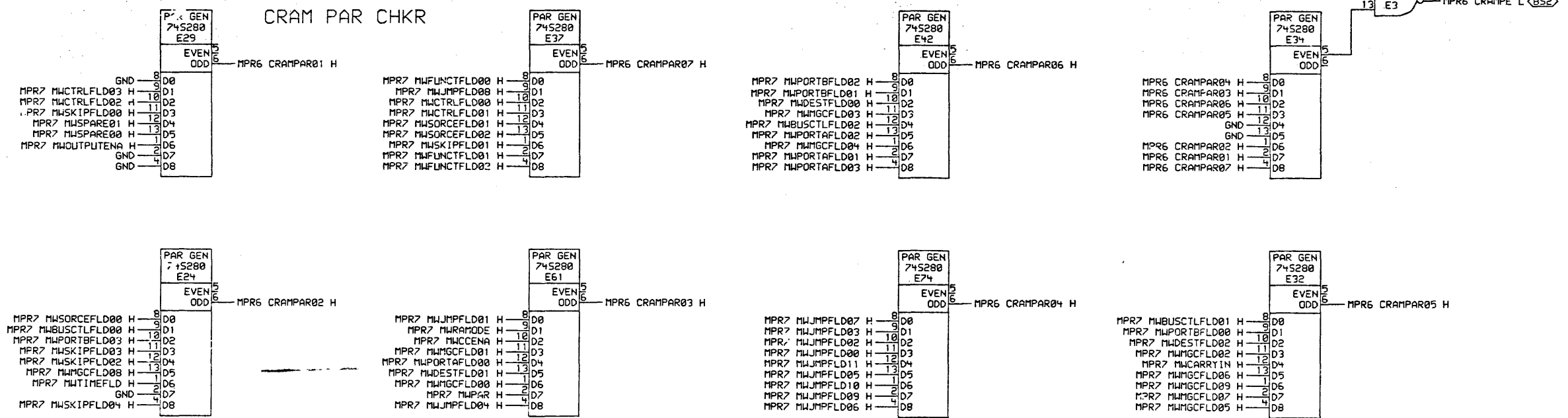
REVISIONS	
CHK	CHANGE NO. / REV

digital	DATE: 04-APR-84	ENG: P. B.	DATE: 04-APR-84	TITLE: C120 MPROC CONT
	CHK'D: J. L.	DATE: 10-APR-84	BOARD LOCATION: 1	CRAM RAM 2
SUDCOM: <BOWEN.ECO>MPR500.DRW [29-MAR-84 08:52] NEXT HIGHER ASSEMBLY:				SIZE: CODE
FIRST USED ON OPTION/MODEL: C120				NUMBER: D CS M3002-0-MPR5
				REV: A

COND/SKIP DECODER



GRAM PAR CHKR



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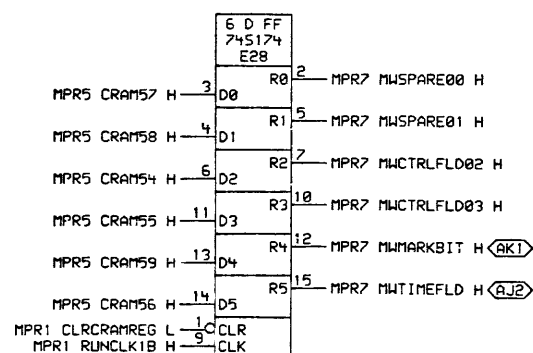
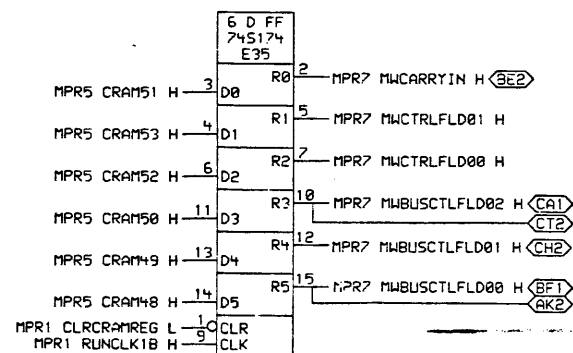
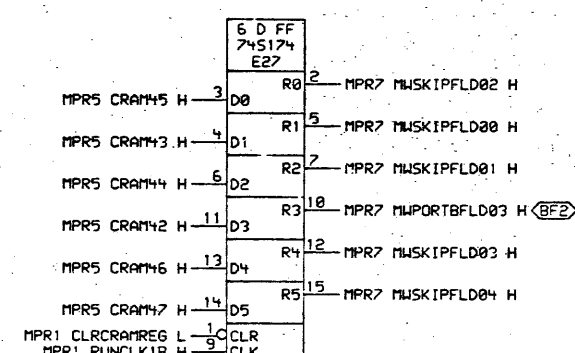
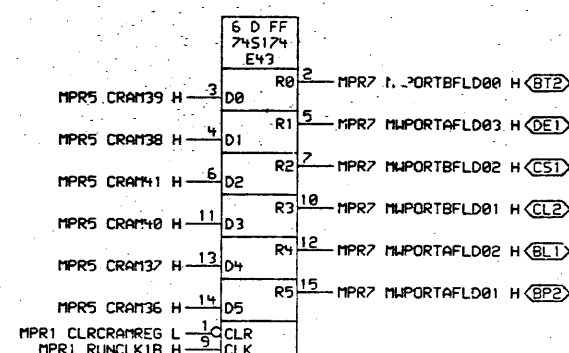
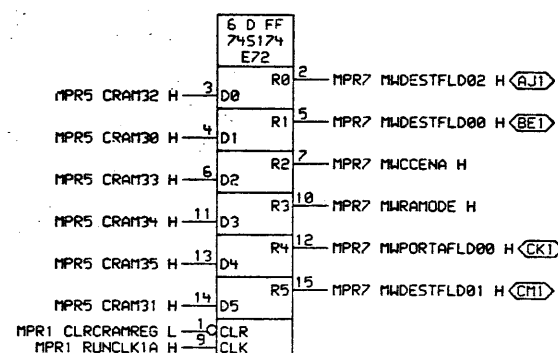
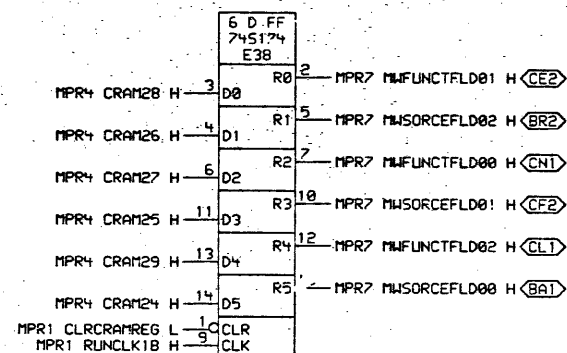
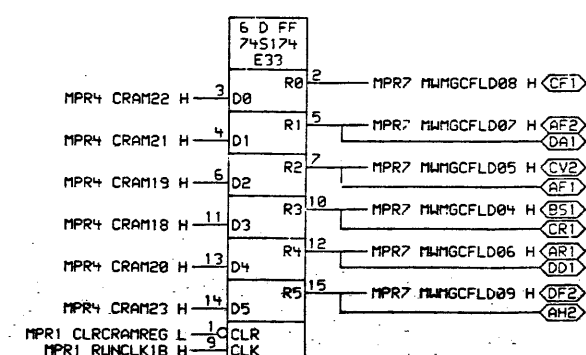
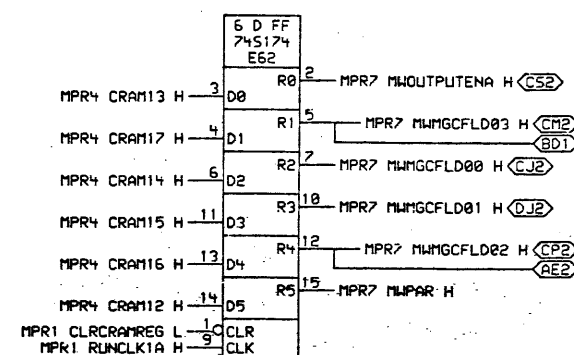
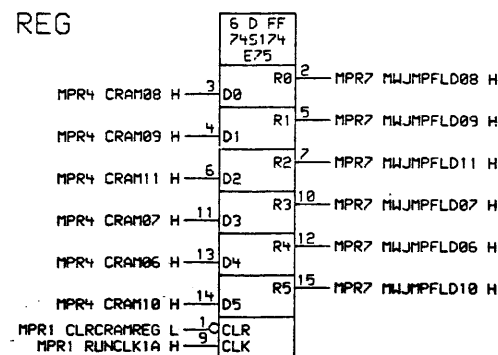
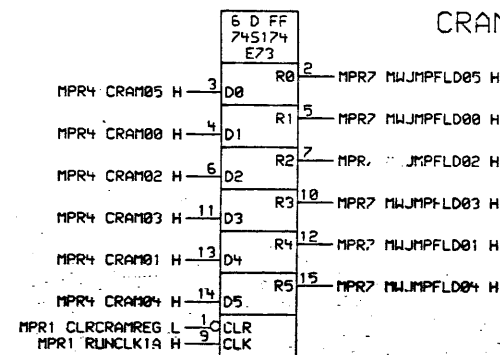
REVISIONS	
CHK	CHANGE NO. REV

digital	DATE 04-APR-84	ENG R. L. L.	DATE 04-APR-84	TITLE: C120 MPROC CONT
	DATE 14 APR 84	BOARD LOCATION: 1	DATE 14 APR 84	CRAM PARITY
SUDCON: (BOMEN, ECO) MPR600.DRW 129-MAR-84 08:53 NEXT HIGHER ASSEMBLY:				SIZE CODE D CS
FIRST USED ON OPTION/MODEL: C120 D-DD-M3002-0				NUMBER M3002-0-MPR6
				REV. A

D

D

CRAM CTRL REG



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REVISIONS		
CHK	CHANGE NO.	REV

digit	DATE 04-APR-84	ENG. R. Law	DATE 04-APR-84	TITLE: C120 MPROC CONT
	CHK'D 0. Univel	DATE 10-APR-84	SHEET 1 OF 1	CRAM REG
SUBCOM: <BOWEN.ECO> MPR700.DRW 129-MAR-84 08:53 NEXT HIGHER ASSEMBLY:				SIZE CODE D CS
FIRST USED ON OPTION/MODEL: C120				NUMBER M3002-0-MPR7
				REV. A

D

C

B

A

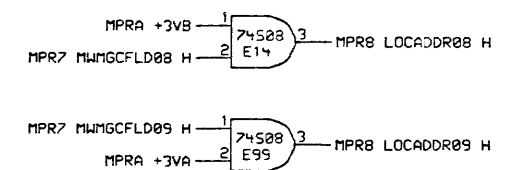
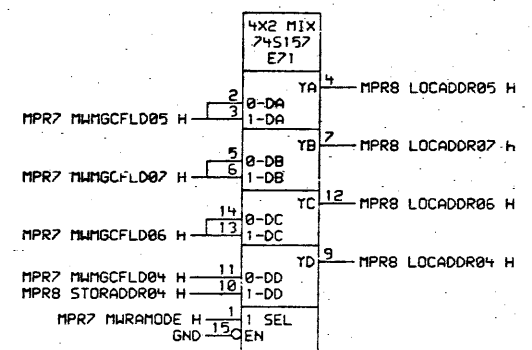
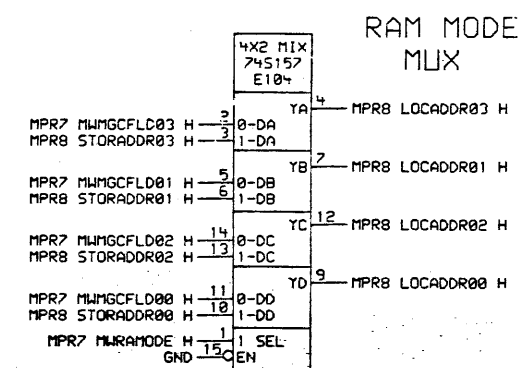
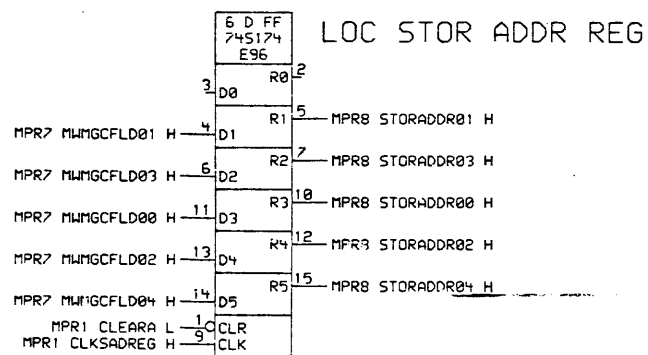
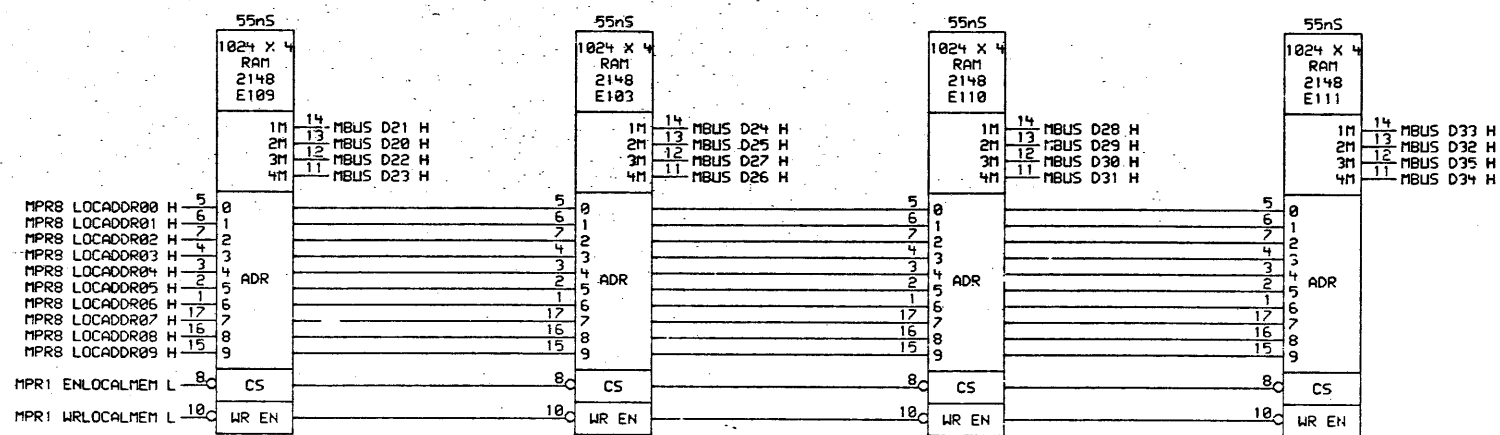
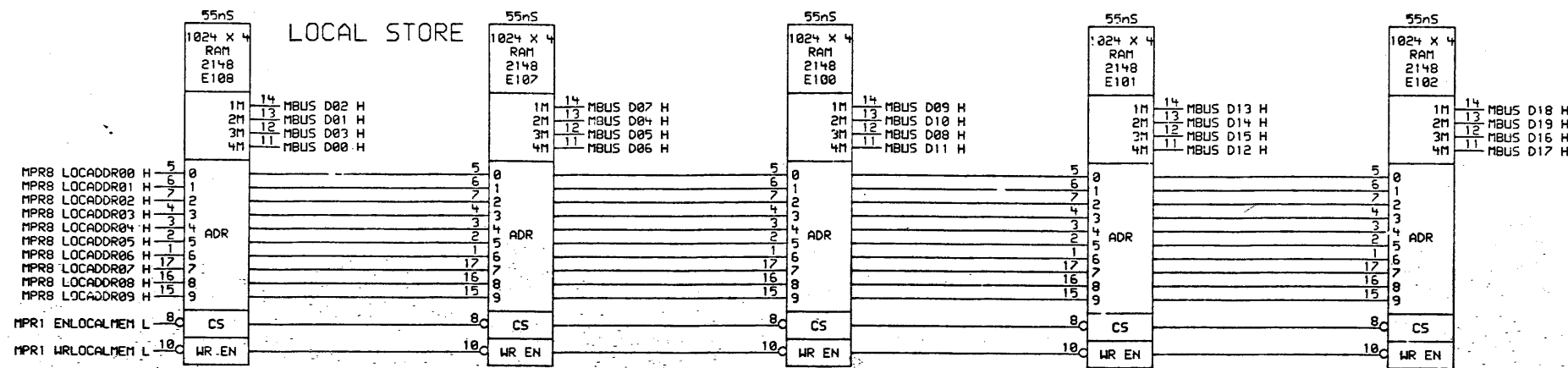
D

C

A

B

D



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REVISIONS		
CHK	CHANGE NO.	REV

digital	DATE 04-APR-84	ENG R. Law	DATE 04-APR-84	TITLE: C120 MPROC CONT LOCAL STORAGE
	CHK'D. [Signature]	DATE 12-APR-84	BOARD LOCATION: DE 1	
SUDCOM: (BOWEN.ETC) MPR800.DRW 123-MAR-84 08:53 NEXT HIGHER ASSEMBLY: D-DD-M3002-0				
FIRST USED ON OPTION/MODEL: C120		SIZE D	CODE CS	NUMBER M3002-0-MPR8

D

C

B

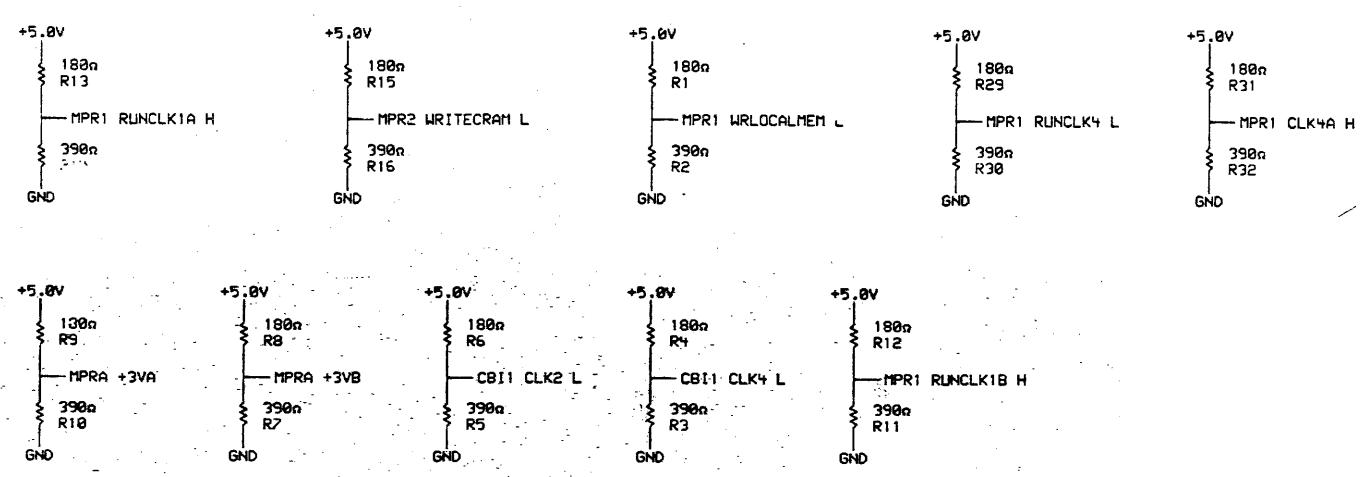
A

D

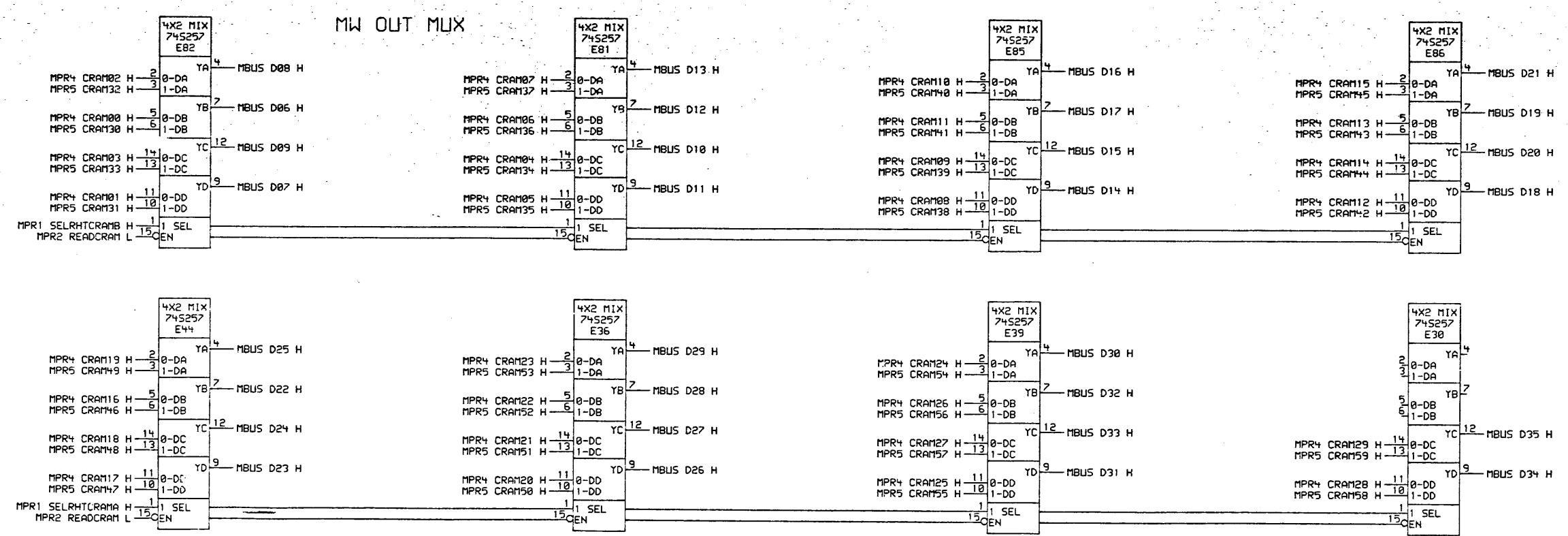
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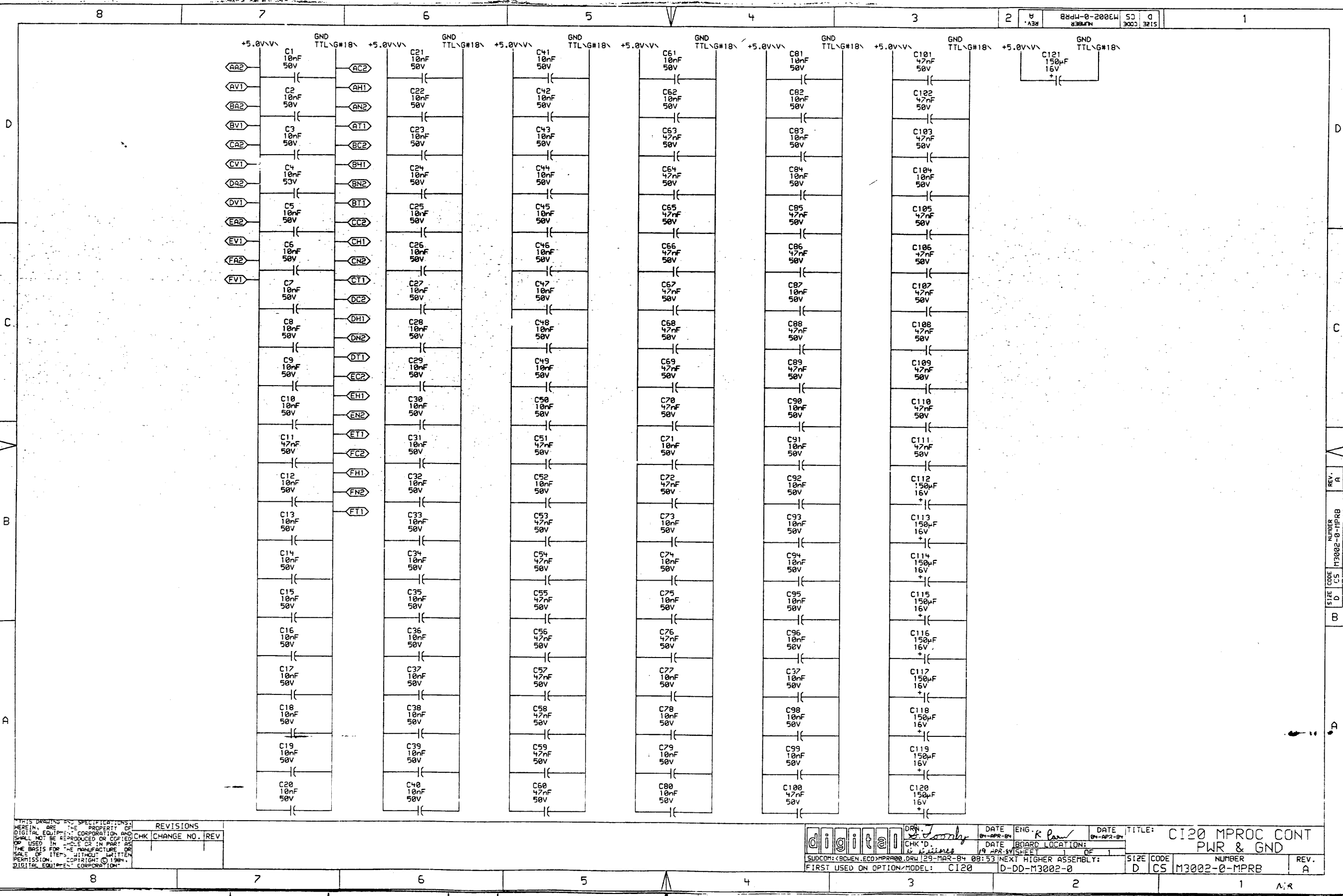
B

A



MW OUT MUX





REVISIONS		
CHK	CHANGE NO.	REV

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digital

DRN. *Looney*
CHK'D. *W. K. Jones*

DATE 04-APR-84
DATE 19 APR 84 SHEET 1 OF 1

ENG. *R. Law*
BOARD LOCATION: 1

DATE 04-APR-84

TITLE: C120 MPROC CONT PWR & GND

SUDCOM: (SCHEN, ECO) MPR00.DRW 129-MAR-84 08:53 NEXT HIGHER ASSEMBLY:

FIRST USED ON OPTION/MODEL: C120 D-DD-M3002-0

SIZE	CODE	NUMBER	REV.
D	CS	M3002-0-MPRB	A

AA1 N/C SEE NOTE 1
AB1 N/C SEE NOTE 3
AB2 N/C -5.2V
AC1 N/C EXTRA GND
AU1 N/C -5.2V
AU2 N/C SEE NOTE 1
BB1 N/C SEE NOTE 3
BB2 N/C SEE NOTE 3
BC1 N/C EXTRA GND
BH2 N/C SEE NOTE 1
BK1 N/C SEE NOTE 1
BK2 N/C SEE NOTE 1
BR1 N/C SEE NOTE 1
BU1 N/C SEE NOTE 3
CB1 N/C SEE NOTE 3
CB2 N/C SEE NOTE 3
CC1 N/C EXTRA GND
CJ1 N/C SEE NOTE 1
CR2 N/C SEE NOTE 1
CU1 N/C SEE NOTE 3
DB1 N/C SEE NOTE 3
DB2 N/C SEE NOTE 3
DC1 N/C EXTRA GND
DH2 N/C SEE NOTE 1
DJ1 N/C SEE NOTE 1
DK1 N/C SEE NOTE 2

DK2 N/C SEE NOTE 2
DL1 N/C SEE NOTE 2
DL2 N/C SEE NOTE 2
DM1 N/C SEE NOTE 2
DM2 N/C SEE NOTE 2
DN1 N/C SEE NOTE 2
DP1 N/C SEE NOTE 2
DP2 N/C SEE NOTE 2
DR1 N/C SEE NOTE 2
DR2 N/C SEE NOTE 2
DS1 N/C SEE NOTE 2
DS2 N/C SEE NOTE 2
DT2 N/C SEE NOTE 2
DU1 N/C SEE NOTE 3
DU2 N/C SEE NOTE 2
DV2 N/C SEE NOTE 2
EA1 N/C SEE NOTE 2
EB1 N/C SEE NOTE 3
EB2 N/C SEE NOTE 3
EC1 N/C SEE NOTE 2
ED1 N/C SEE NOTE 2
ED2 N/C SEE NOTE 2
EE1 N/C SEE NOTE 2
EE2 N/C SEE NOTE 2
EF1 N/C SEE NOTE 2
EF2 N/C SEE NOTE 2
EH2 N/C SEE NOTE 2

EJ1 N/C SEE NOTE 2
EJ2 N/C SEE NOTE 2
EK1 N/C SEE NOTE 2
EK2 N/C SEE NOTE 2
EL1 N/C SEE NOTE 2
EL2 N/C SEE NOTE 2
EM1 N/C SEE NOTE 2
EM2 N/C SEE NOTE 2
EN1 N/C SEE NOTE 2
EP1 N/C SEE NOTE 2
EP2 N/C SEE NOTE 2
ER1 N/C SEE NOTE 2
ER2 N/C SEE NOTE 2
ES1 N/C SEE NOTE 2
ES2 N/C SEE NOTE 2
ET2 N/C SEE NOTE 2
EU1 N/C SEE NOTE 3
EU2 N/C SEE NOTE 2
EV2 N/C SEE NOTE 2
FA1 N/C SEE NOTE 2
FB1 N/C SEE NOTE 3
FB2 N/C -5.2V
FC1 N/C SEE NOTE 2
FD1 N/C SEE NOTE 2
FD2 N/C SEE NOTE 2
FE1 N/C SEE NOTE 2
FE2 N/C SEE NOTE 2

FF1 N/C SEE NOTE 2
FF2 N/C SEE NOTE 2
FH2 N/C SEE NOTE 2
FJ1 N/C SEE NOTE 2
FJ2 N/C SEE NOTE 2
FK1 N/C SEE NOTE 2
FK2 N/C SEE NOTE 2
FL1 N/C SEE NOTE 2
FL2 N/C SEE NOTE 2
FN1 N/C SEE NOTE 2
FN2 N/C SEE NOTE 2
FP1 N/C SEE NOTE 2
FP2 N/C SEE NOTE 2
FR1 N/C SEE NOTE 2
FR2 N/C SEE NOTE 2
FS1 N/C SEE NOTE 2
FS2 N/C SEE NOTE 2
FT2 N/C SEE NOTE 2
FU1 N/C -5.2V
FU2 N/C SEE NOTE 2
FV2 N/C SEE NOTE 2

NOTE 1: THESE PINS ARE CONNECTED AS SHOWN BELOW

FROM	TO
C13D1	A14A1
C13E1	A14U2
F13R1	B14H2
F13M1	B14K1
D13S2	B14K2
E13L2	B14R1
E13D2	C14J1
C13F1	C14R2
C13K1	D14H2
F13K1	D14J1

NOTE 2: RSVD FOR MASS BUS
NOTE 3: RSVD FOR -5.2V

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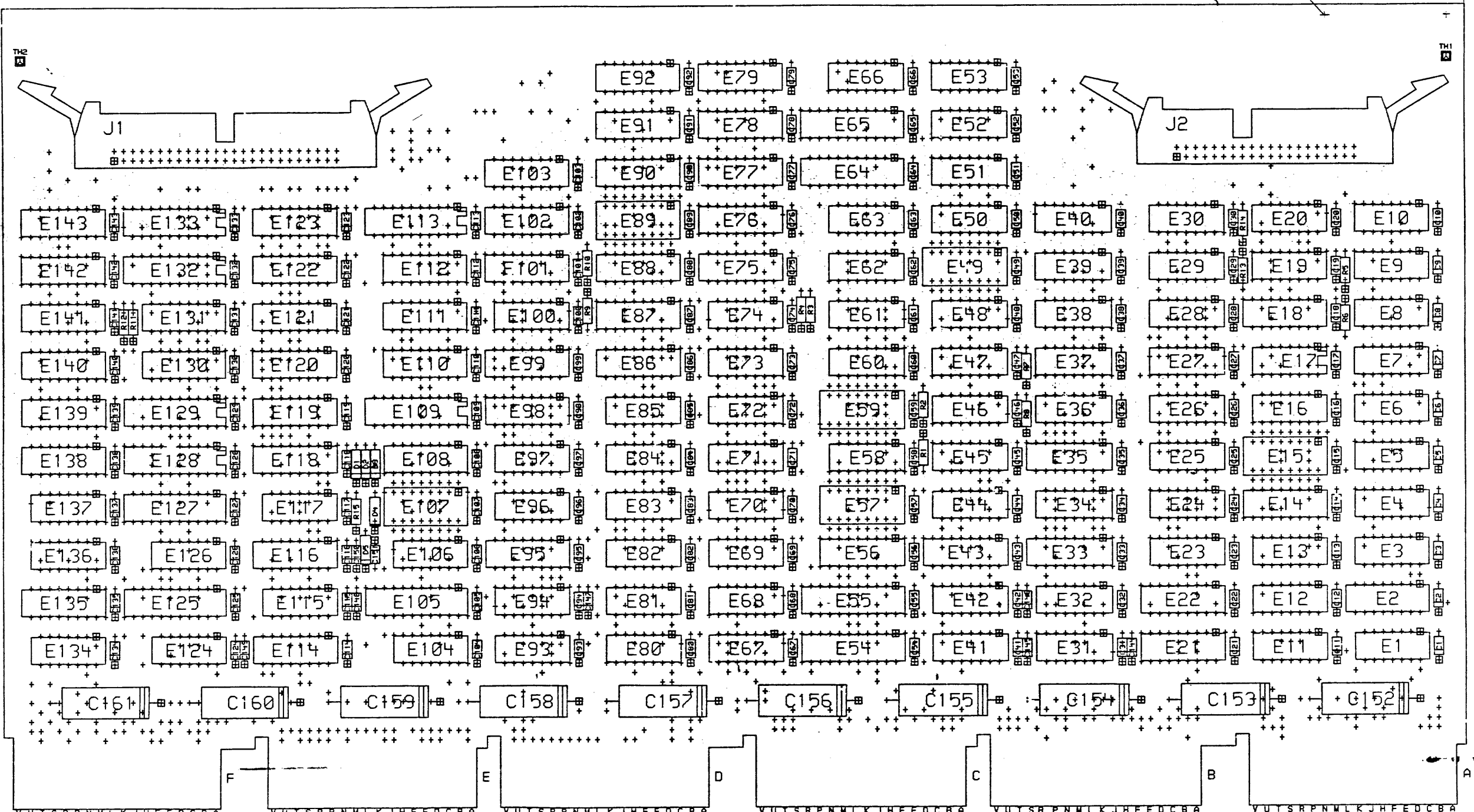
REVISIONS
CHK CHANGE NO. REV

digital	DATE 04-APR-84	ENG. R. Low	DATE 04-APR-84	TITLE: C120 MPROC CONT UNUSED FINGERS
	CHK'D. 19 APR 84	DATE 19 APR 84	BOARD LOCATION: DE 1	SIZE CODE D CS
SUBCOM: BOWEN.ECO MPRC00.DRW 29-MAR-84 08:54 NEXT HIGHER ASSEMBLY: D-DD-M3002-0				NUMBER M3002-0-MPRC
FIRST USED ON OPTION/MODEL: C120				REV. A

DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS	
			ECO NUMBER	-	M3003 MR001
		M3003-00	MODULE REVISION	A1	A1
D-UA-M3003-0-0	2		CBUS	A	A1
K-PL-M3003-0-DBP	2		PARTS LIST, M3003	A	A1
D-CS-M3003-0-CBI1	1		CI20 CBUS INTFC CBUS CONTROL 1	A	A
D-CS-M3003-0-CBI2	1		CI20 CBUS INTFC CBUS CONTROL 2	A	A
D-CS-M3003-0-CBI3	1		CI20 CBUS INTFC MVR CONTROL 1	A	A
D-CS-M3003-0-CBI4	1		CI20 CBUS INTFC MVR CONTROL 2	A	A
D-CS-M3003-0-CBI5	1		CI20 CBUS INTFC CBUS INTERFACE	A	A
D-CS-M3003-0-CBI6	1		CI20 CBUS INTFC CBUS PARITY	A	A
D-CS-M3003-0-CBI7	1		CI20 CBUS INTFC FMTR INPUT MUX5	A	A
D-CS-M3003-0-CBI8	1		CI20 CBUS INTFC MVR/FMTR	A	A
D-CS-M3003-0-CBI9	1		CI20 CBUS INTFC PLI INTERFACE	A	A
D-CS-M3003-0-CBIA	1		CI20 CBUS INTFC MBUS INTERFACE	A	A
D-CS-M3003-0-CBIB	1		CI20 CBUS INTFC PWR & GND	A	A
D-CS-M3003-0-CBIC	1		CI20 CBUS INTFC UNUSED FINGERS	A	A
D-CS-M3003-0-BLK	1		BLOCK DIAGRAM CBUS MODULE	A	A
K-PC-M3003-0-DBI	-		P.C. DESIGN DATA BASE	A	REF
D-DD-5015386-0	2		DRAWING DIRECTORY, 5015386	REF	REF

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41 QTY 12 COMPONENT SIDE VIEW



NOTES: 1. SPARE COMPONENT LOCATIONS ARE: E15, E49, E57, E59, E89, E107.
2. THIS BOARD MUST MEET SAFETY REQ. FOR HPWR.

STEP E	↑ Y AXIS	STEP 0	TIMES
REPEAT	→ X AXIS	STEP 0	TIMES

CHK	CHANGE NO	REV	DATE	BY
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ETCH REV. C1

SIGNATURES		DATE	digital			
DRN. <i>W. Bloom</i>		10/1/84				
CHK. <i>D. S. Bloom</i>		10/1/84				
MECH. ENG. <i>J. Tamm</i>		10/1/84	TITLE			
PROJ. ENG. <i>J. Tamm</i>		10/1/84	CBUS			
PROD. <i>W. Bloom</i>		10/1/84				
SCALE 2/1		SIZE CODE	NUMBER		REV	
SHT. 1 OF 1		D UA	M3003-0-0		C	
TOP DOC NO: D-DD-M3003-0						

LINE	ITEM	TCP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
						00		
						A3		
VARIATION REVISION LEVEL:								
1	1	D-MD-5015386-0-0	5015386-01	C	DRILL & ETCH DWG FOR M3003	1		
2	2		1001610-00		.01 MFD 50V +80-20% 25U CER	132		C1-C17,C19-C28,C30,C32-C40, CONT C43-C45,C47-C58,C60-C73,C75-C93, CONT C95-C99,C101-C114,C116-C123, CONT C125-C140,C142,C143,C150,C151 C18,C29,C45,C59,C74,C100,C141 C31,C41,C42,C94,C115,C124, CONT C144-C149 C152-C161 D1-D5 J1 J2
3	3		1012784-00		.047 MFD 50V +80-20% CER	7		
4	4		1010274-00		.22 MFD 50V +80-20% 25U CER	12		
5	5		1012084-03		150 MFD 15V +75-10% AL EL	10		
6	6		1100113-00		D 662 OS 600PCB(STABISTOR)	5		
7	7		1216832-03		PCB,HEADER 50POS(2X25).100CC 90D	1		
8	8		1216832-02		PCB,HEADER 40PCS(2X20).100CC 90D	1		
9	9		1215278-00		CABLE,FLEX NOMEX SHEET MODULE PR	1		
10	10		1216988-02		HANDLE,MODULE,HEX TWO EJECTORS	1		
11	11		1301322-00		180.0 .25 W 5.0 % CF	7		R1,R3,R5,R7,R9,R11,R13
12	12		1300309-00		390.0 .25 W 5.0 % CF	7		R2,R4,R6,R8,R10,R12,R14
13	13		1301477-00		82.0 .25 W 5.0 % CF	1		R15
14	14		1912746-B0		74S37 BURNED-IN NAND GATE-	5		E1,E8,E11,E30,E104
15	15		1911117-00	DEC	8838 TRANSCEIVER,BUS,QUA	1		E2
16	16		1910539-B0		74S20 BURNED-IN NAND GATE-	2		E3,E29
17	17		1910544-B0		74S74 BURNED-IN FF-D DUAL,	11		E4,E13,E16,E20,E23,E34,E38,E45, CONT E52,E61,E62
18	18		1912388-B0		74S02 BURNED-IN NOR GATE-Q	10		E5,E10,E19,E24,E25,E47,E48,E71, CONT E72,E81
19	19		1910534-B0		74S04 BURNED-IN INVERTER G	8		E6,E12,E39,E46,E53,E85,E93,E100
20	20		1910536-B0		74S10 BURNED-IN NAND GATE-	1		E7
21	21		1910532-B0		74S00 BURNED-IN NAND GATE-	4		E9,E28,E63,E80
22	22		1910957-B0		74S175 BURNED-IN FF-D QUAD	3		E14,E18,E35
23	23		1616653-00	DELAY=	50NS,10TAPS WITH TTLBU	1		E17
24	24		1911675-B0		74S138 BURNED-IN DECODER/DE	1		E21

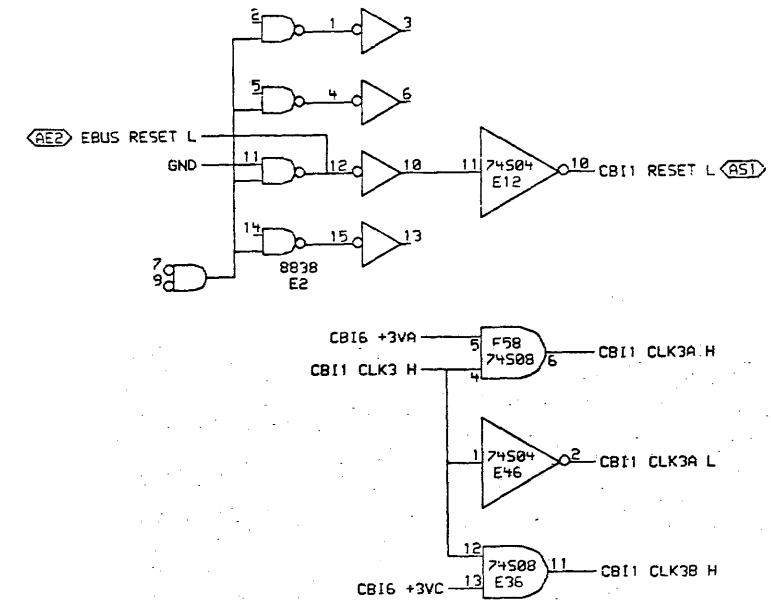
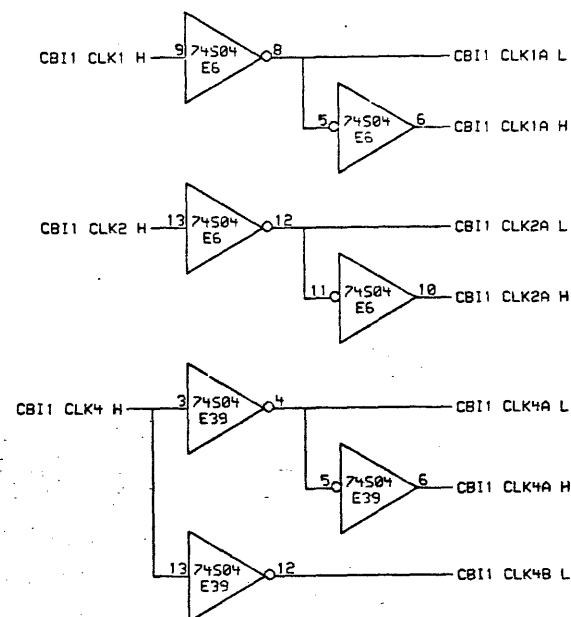
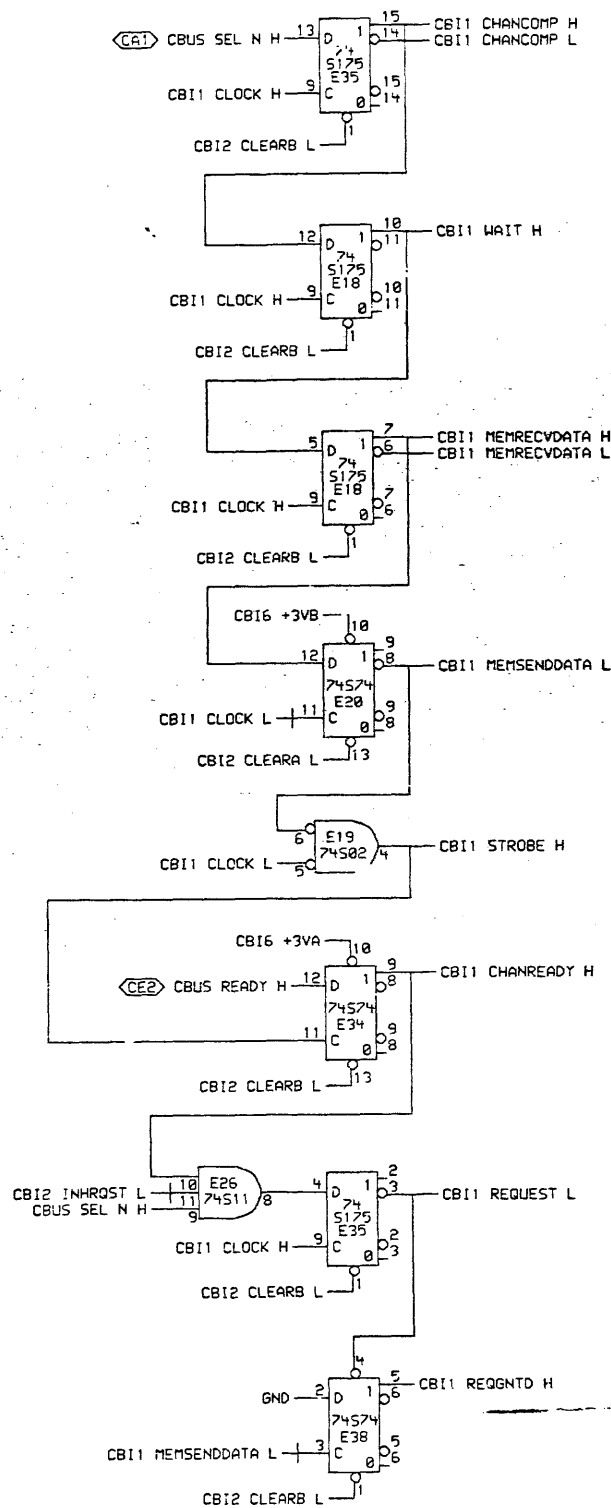
REVISION HISTORY		BASIC PART NO: M3003		DRN: D.DELLORCO		DATE: 18-NOV-82		D I G I T A L	
ENG	ECC NUMBER	REV	SECTION A OF A	CHK'D:	D,CAUNTER	DATE:	18-NOV-82	TITLE	PARTS LIST
---	INITIAL	A	SECTION.VARIATION INDEX	---	[A] 00	---	---	M3003	C BUS
UT	M3003-MF001	B	[B]	DES.ENG:	R,CARN	DATE:	19-APR-84	DOCUMENT NUMBER	---
EB	M3003-MF002	C	[C]	---	---	---	---	SIZE!CODE! NUMBER	REV
---	---	---	[D]	---	---	---	---	---	---
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---	---	---	[F]	RESP.ENG.:	R,CARN	DATE:	19-APR-84	K ! PL ! M3003-0-DBP	C
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---	---	---	[L]	---	---	---	---	---	---
---	---	---	[M]	ASSEMBLY NUMBER:	---	TOP DOCUMENT NUMBER:	---	FILE NAME:	EDIT #
---	---	---	[N]	D-UA-M3003-0-0	---	#D-DD-M3003-0	---	ZR534C.PLS	18

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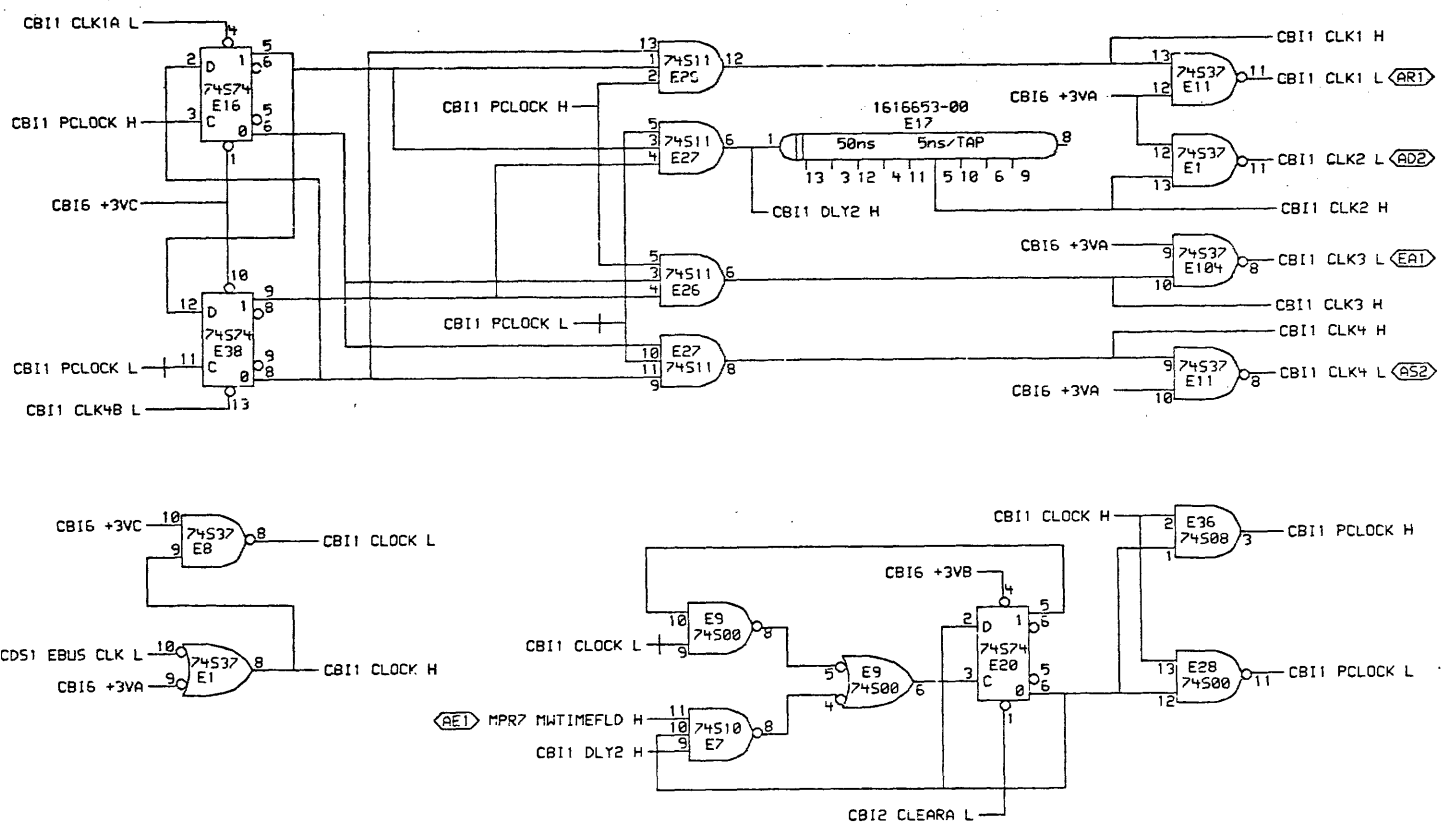
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VARIATION REVISION LEVEL:							00	A3	
25	25			1910545-B0		74S112 BURNED-IN FF-JK DUAL	1		E22
26	26			1910537-B0		74S11 BURNED-IN AND GATE-T	2		E26,E27
27	27			1910010-00		RECT. ASSY PIV= 100 IO=15.00A	6		E31,E41,E42,E94,E115,E124
28	28			1913340-B0		74S32 BURNED-IN OR GATE,QU	5		E32,E37,E50,E60,E68
29	29			1912697-00		LS174 FF-D HEX W/CLEAR	7		E33,E43,E56,E95,E114,E116,E135
30	30			1912389-B0		74S08 BURNED-IN AND GATE,Q	3		E36,E58,E84
31	31			1911712-B0		74S51 BURNED-IN AND/OR GAT	2		E40,E70
32	32			1911573-B0		74S280 BURNED-IN PARITY GEN	12		E44,E51,E66,E69,E73,E74,E82,E97
								CONT	E117,E126,E136,E137
33	33			1913671-B0		74S374 BURNED-IN FF-D OCTAL	7		E54,E55,E64,E65,E105,E125,E127
34	34			1910837-00		8093 BUFFER GATE-QUAD 2IN	2		E67,E134
35	35			1912847-00		LS157 MUX 1 OF 2(QUAD)	11		E75,E76,E79,E87,E88,E108,E118,
								CONT	E119,E138,E142,E143
36	36			1910548-B0		74S157 BURNED-IN MUX 1 OF 2	2		E77,E92
37	37			1910552-00		74S194 SHIFT REG.,4BIT RIGH	12		E78,E90,E91,E99,E101-E103,E110,
								CONT	E120,E130,E140,E141
38	38			1912096-B0		74S86 BURNED-IN XOR GATE,Q	3		E83,E96,E106
39	39			1911641-B0		74S257 BURNED-IN MUX,QUAD 2	9		E86,E98,E111,E112,E121-E123,
								CONT	E131,E139
40	40			1913493-B0		74S241 BURNED-IN OCTAL BUFF	6		E109,E113,E128,E129,E132,E133
41	41			9000024-01		EYELET,ROLLED 0.121ODX0.192	12		

42 NOTE: 1. SPARE LOCATIONS ARE: E15,E49,E57,E59,E89,E107

DIGITAL		TITLE	SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
		M3003						
		C.BUS			K	PL	M3003-0-DBP	C



CLOCK GENERATION LOGIC



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REV. A

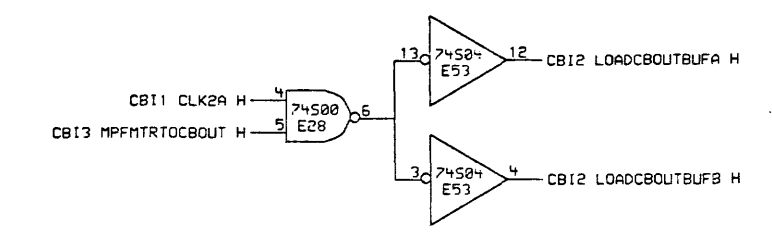
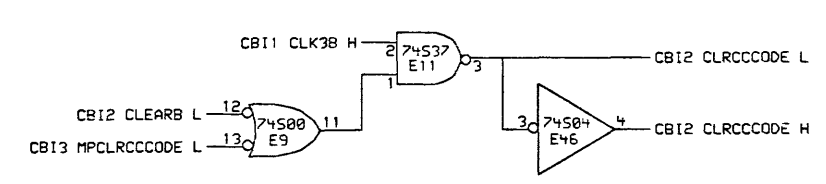
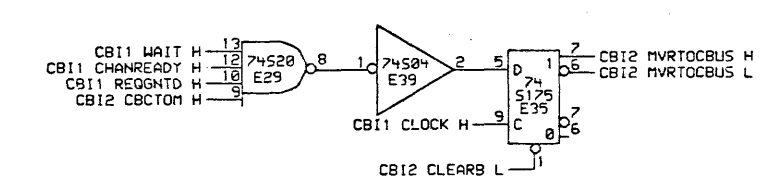
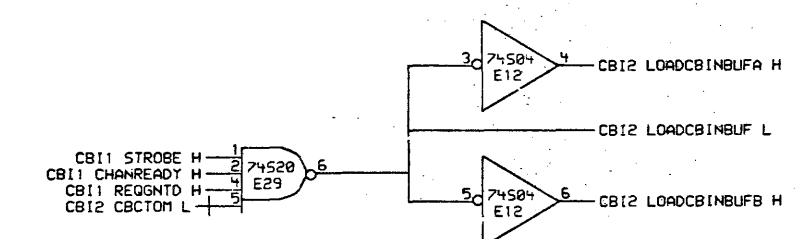
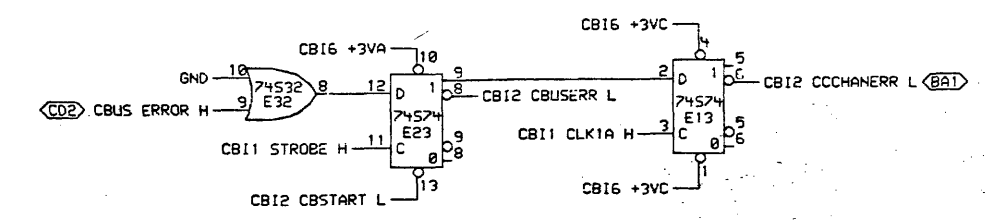
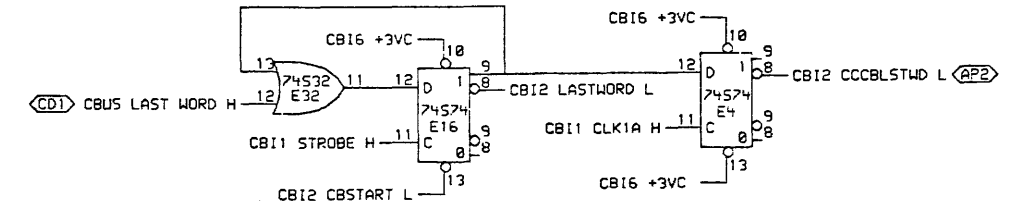
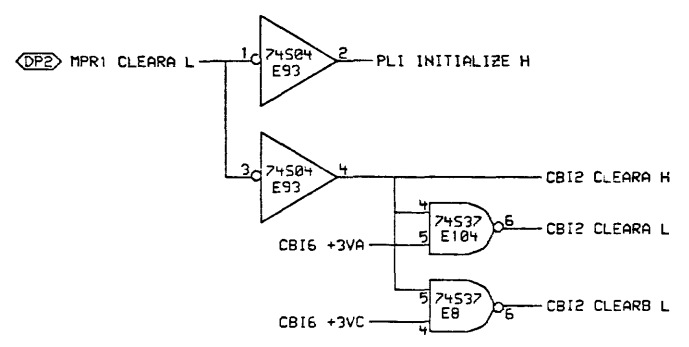
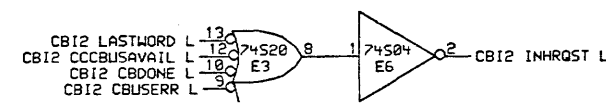
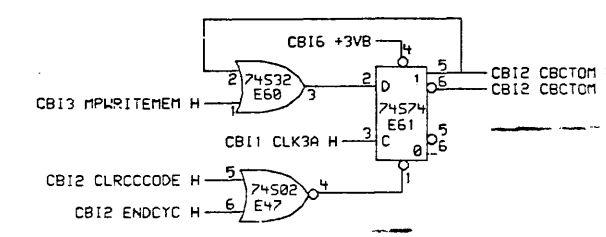
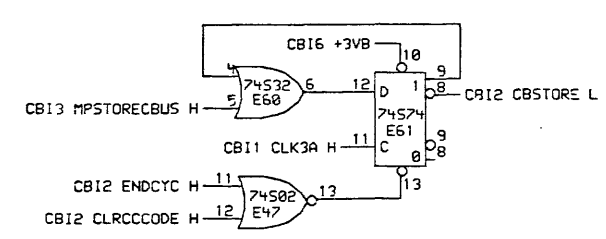
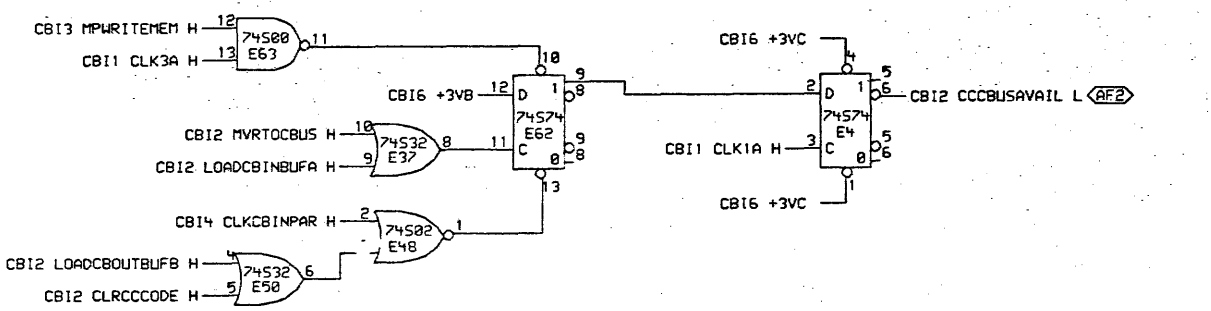
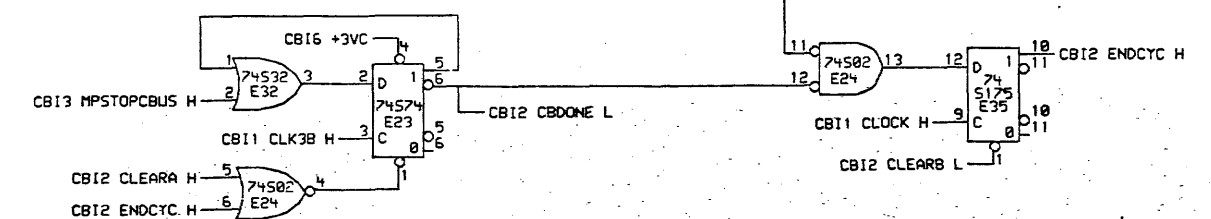
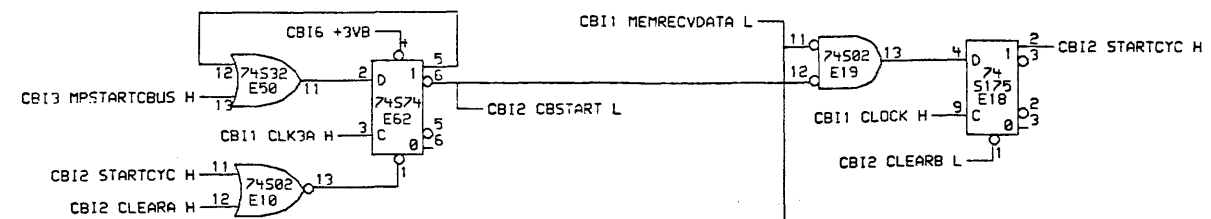
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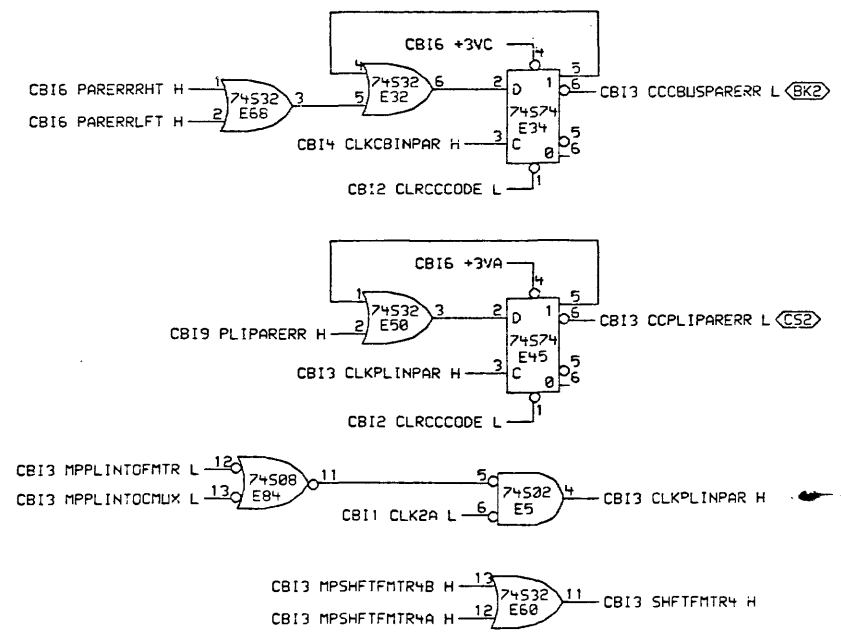
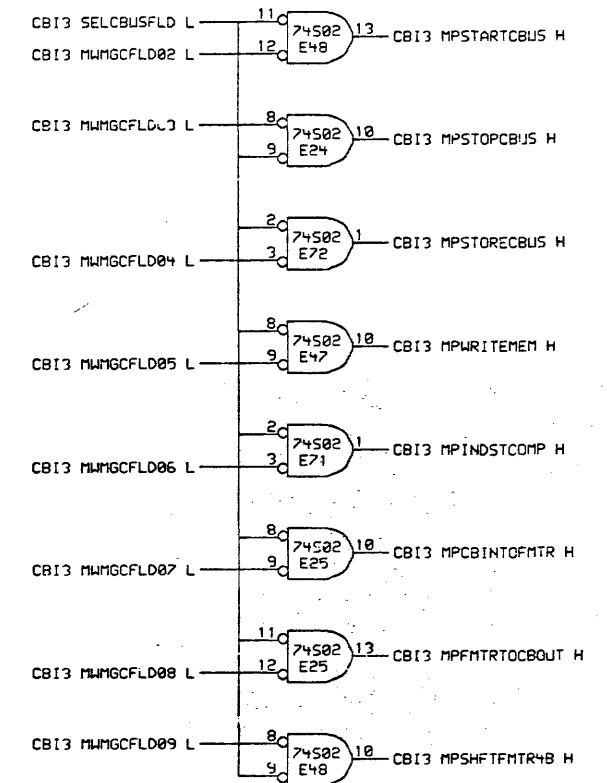
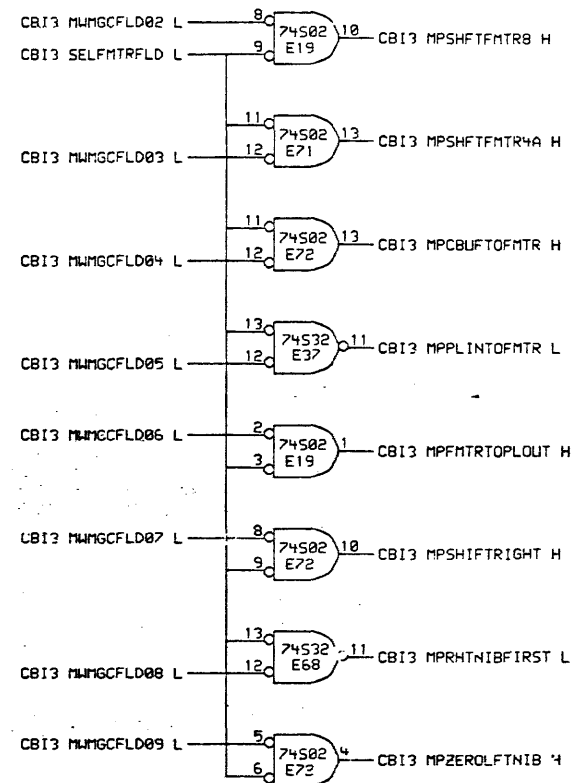
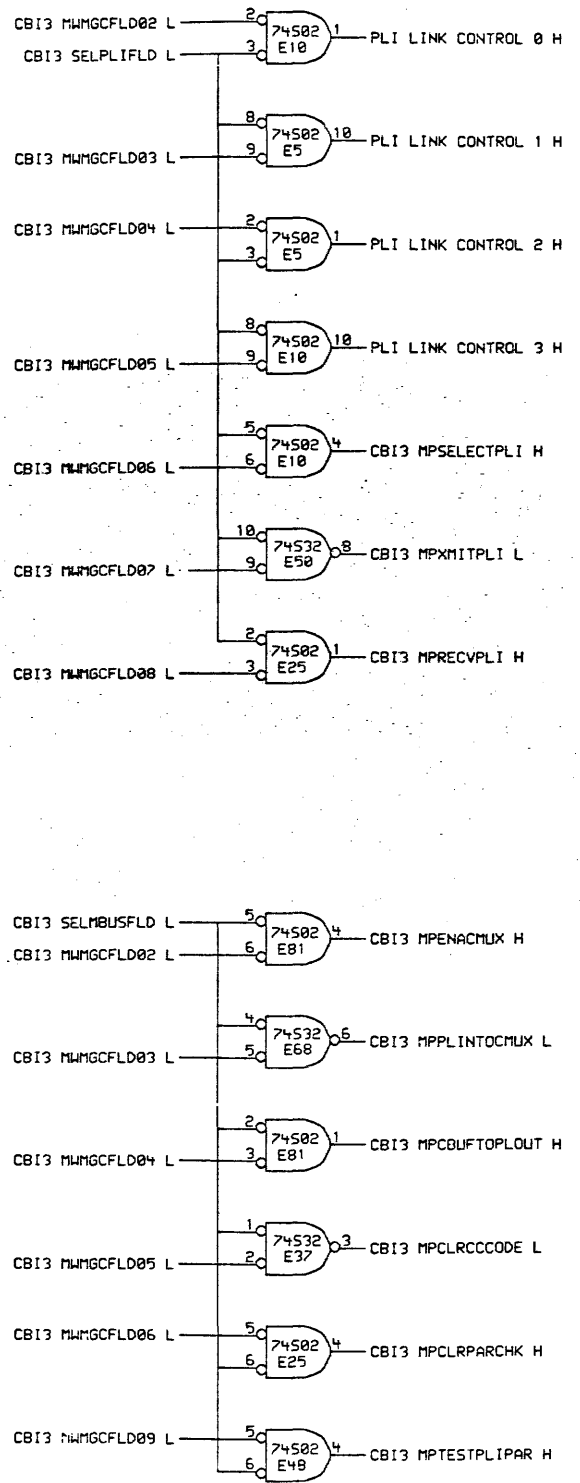
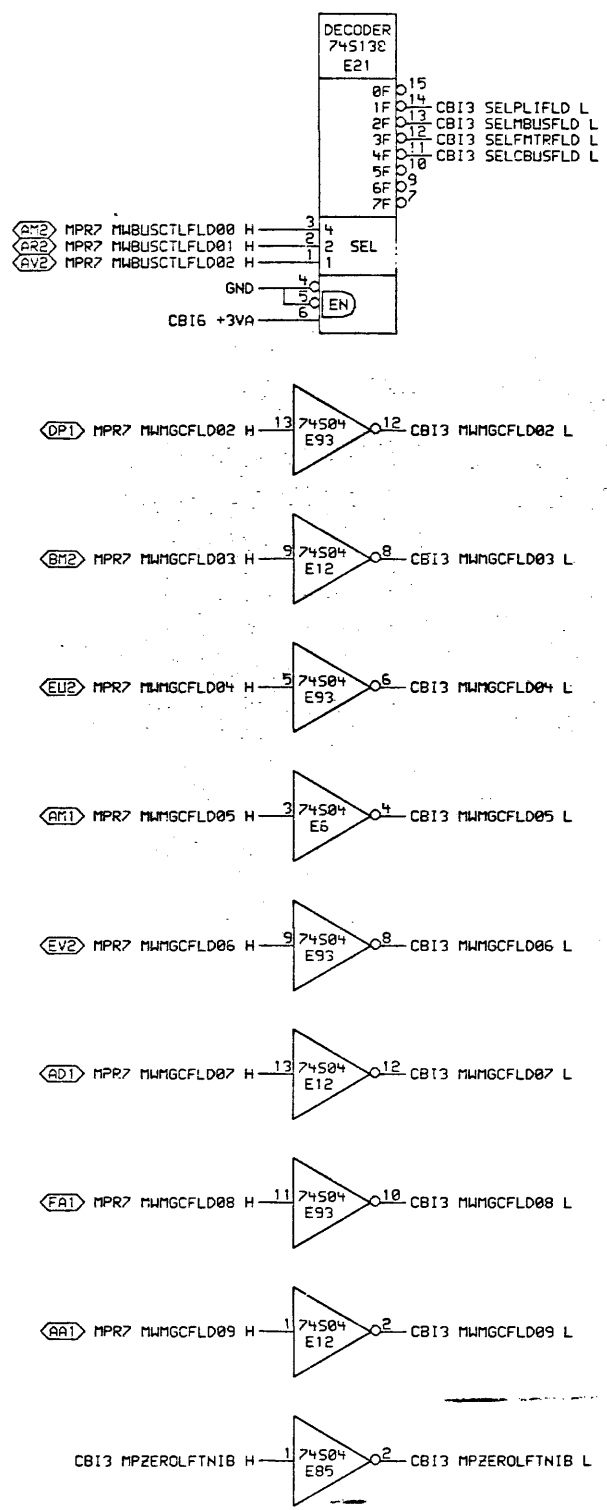


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REVISIONS	
CHK	CHANGE NO. REV

digital	DATE	ENG	DATE	TITLE:
	03-APR-84	R. CARR	03-APR-84	CI20 CBUS INTFC
CHK'D.	DATE	BOARD LOCATION:		CBUS CONTROL 2
	14-APR-84			
SUPCOM: (ROWEN.ECD)CB1203.DRW	29-MAR-84 09:01	NEXT HIGHER ASSEMBLY:		
FIRST USED ON OPTION/MODEL:	CI20	D-DD-M3003-0		
			SIZE CODE	NUMBER
			D CS	M3003-0-CB12
				REV. A

D
C
B
A



D

C

B

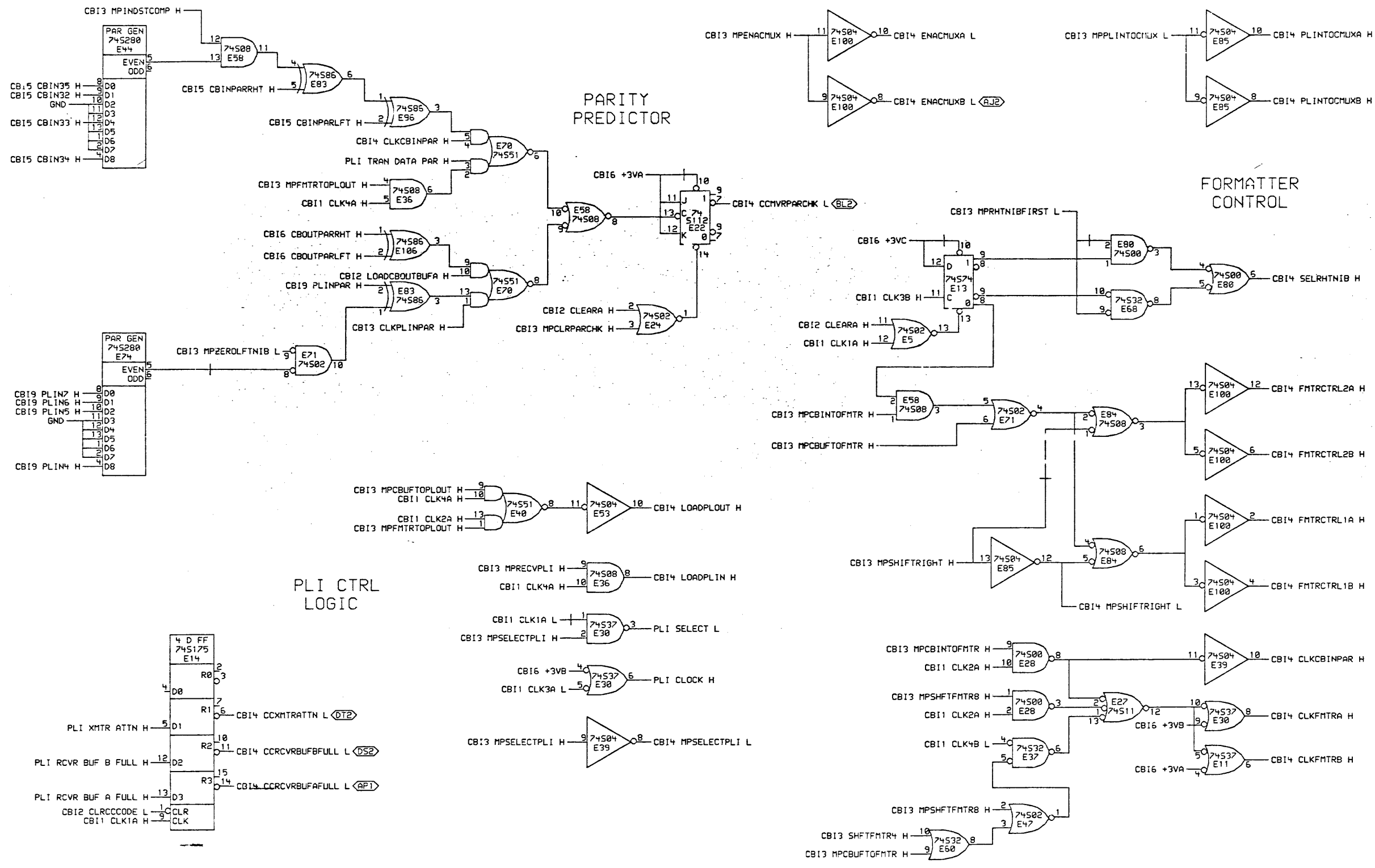
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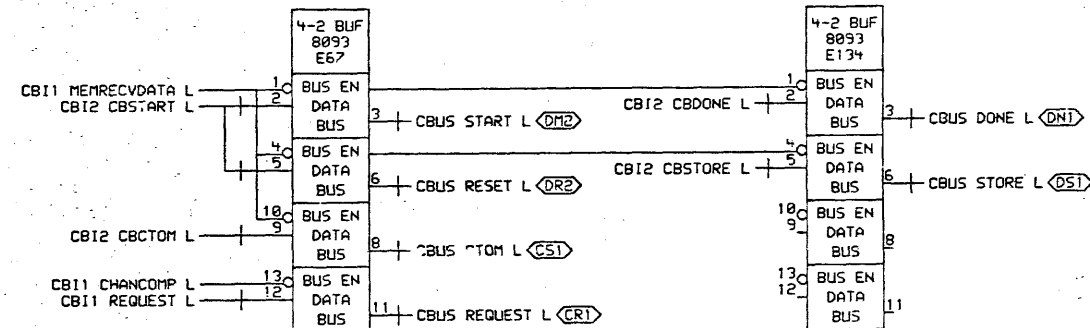
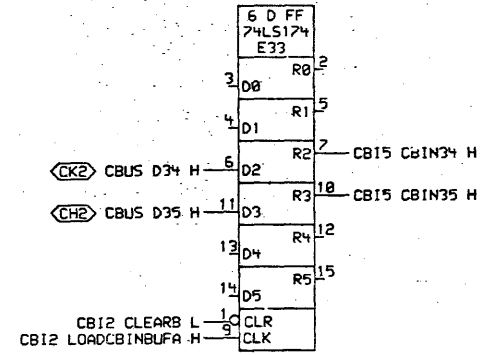
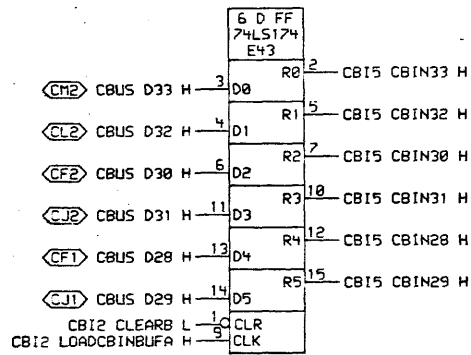
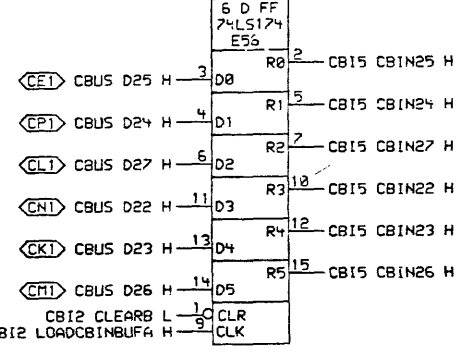
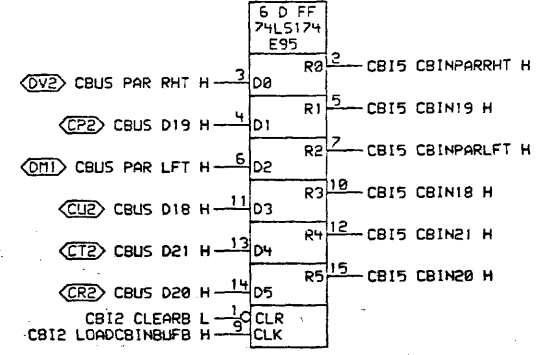
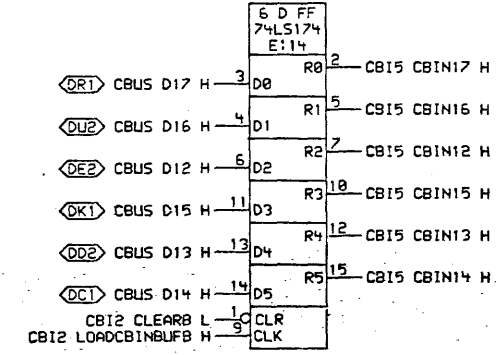
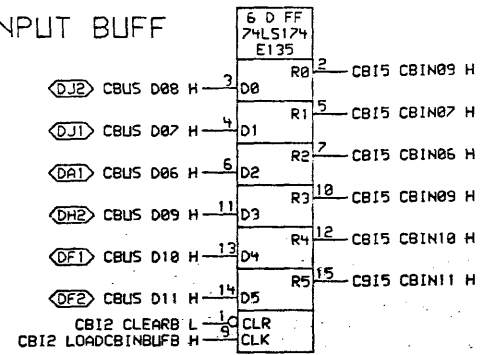
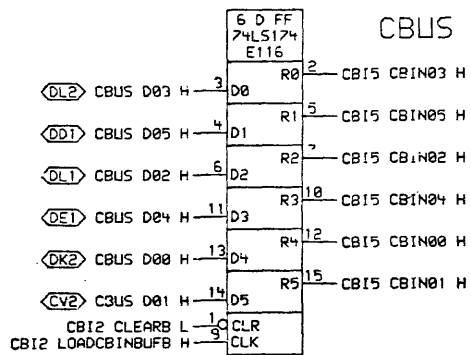
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REV. A

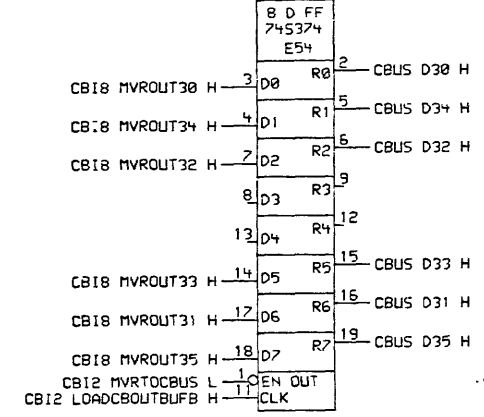
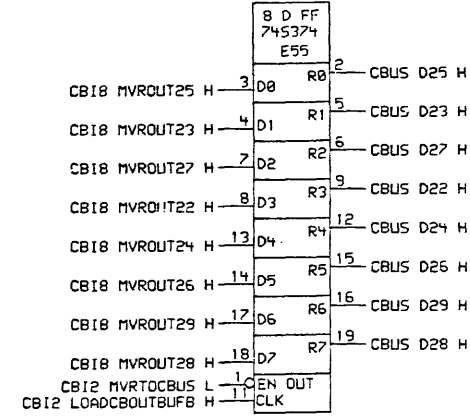
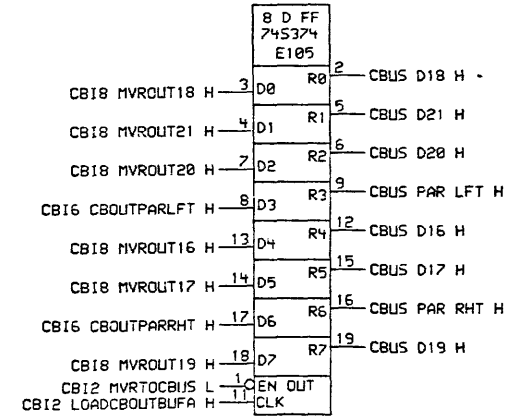
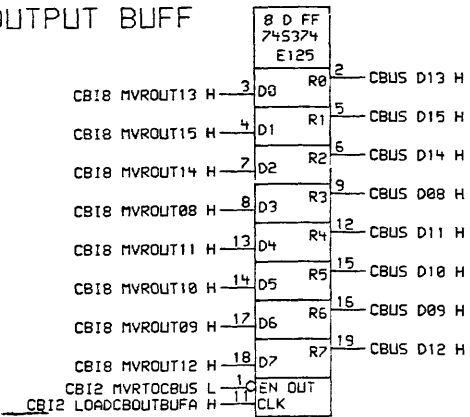
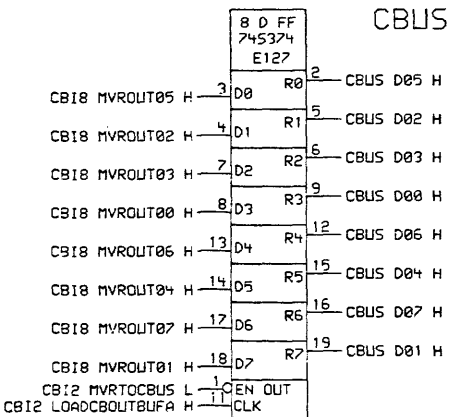
SIZE CODE CS M3003-0-CB15

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CBUS INPUT BUFF



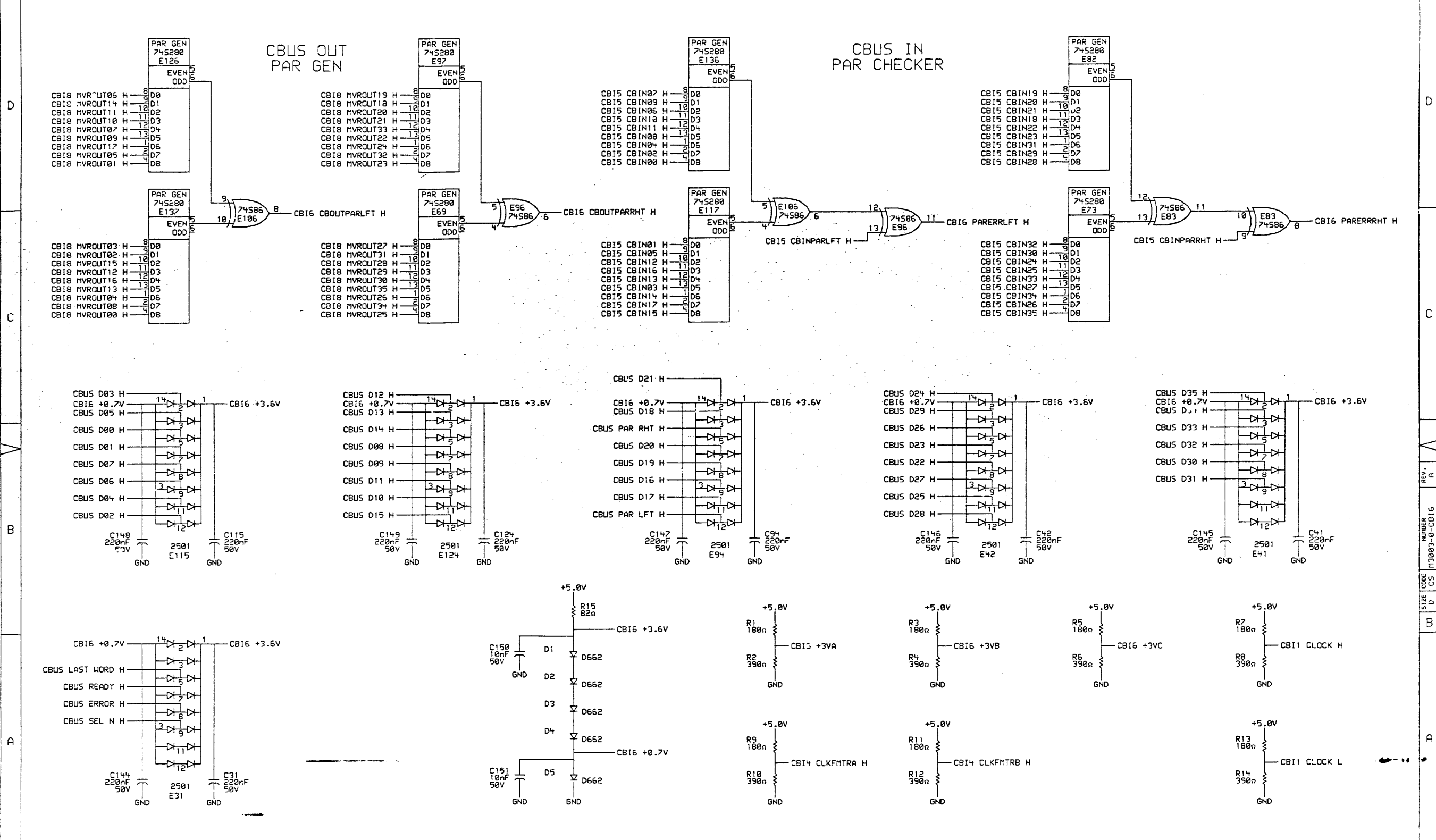
CBUS OUTPUT BUFF



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REVISIONS		
CHK	CHANGE	NC, REV

digital	DATE	ENG. R. C. B.	DATE	TITLE: C120 CBUS INTFC
	CHK'D.	03-APR-84	03-APR-84	CBUS INTERFACE
SUDCOM: (BOWEN, ECO) CB1500.DRW		DATE		BOARD LOCATION:
FIRST USED ON OPTION/MODEL: C120		19-APR-84		1 OF 1
		NEXT HIGHER ASSEMBLY:		SIZE CODE
		D-DD-M3003-0		D CS
				NUMBER
				M3003-0-CB15
				REV. A



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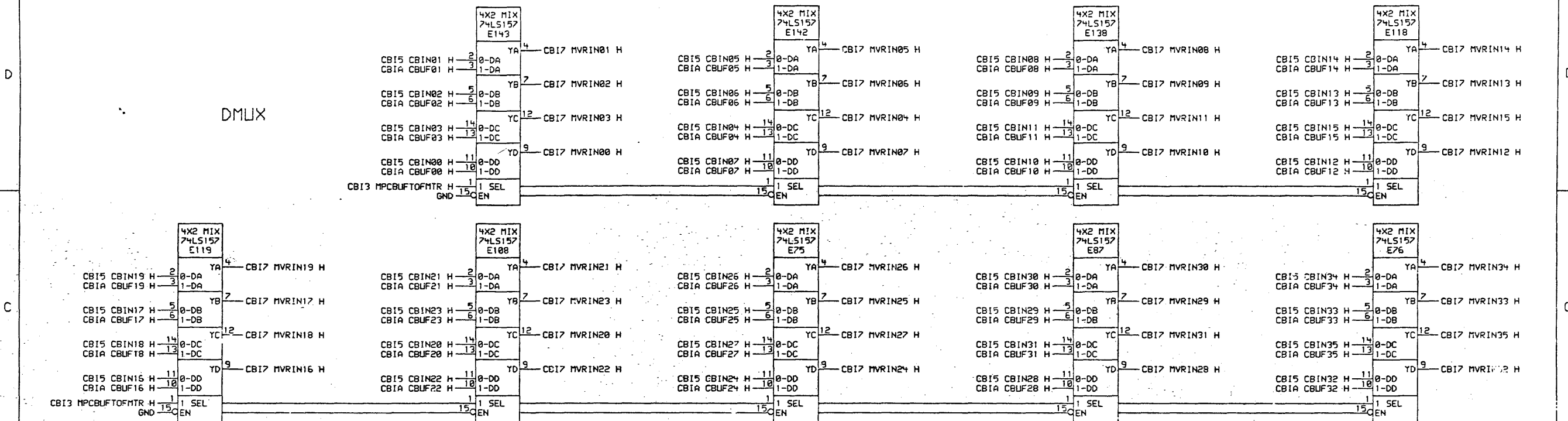
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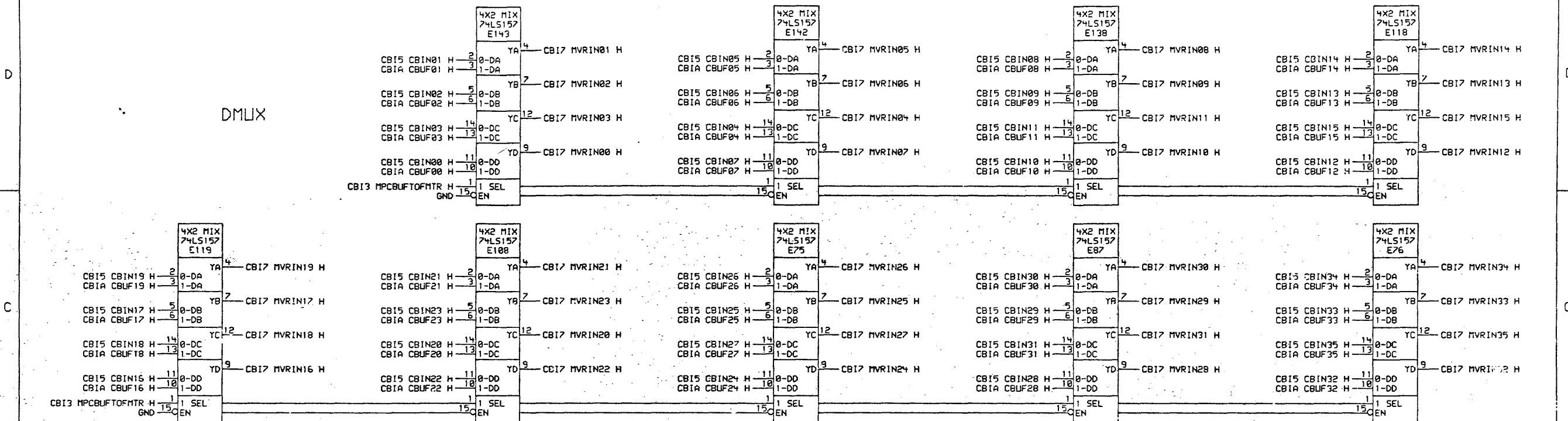
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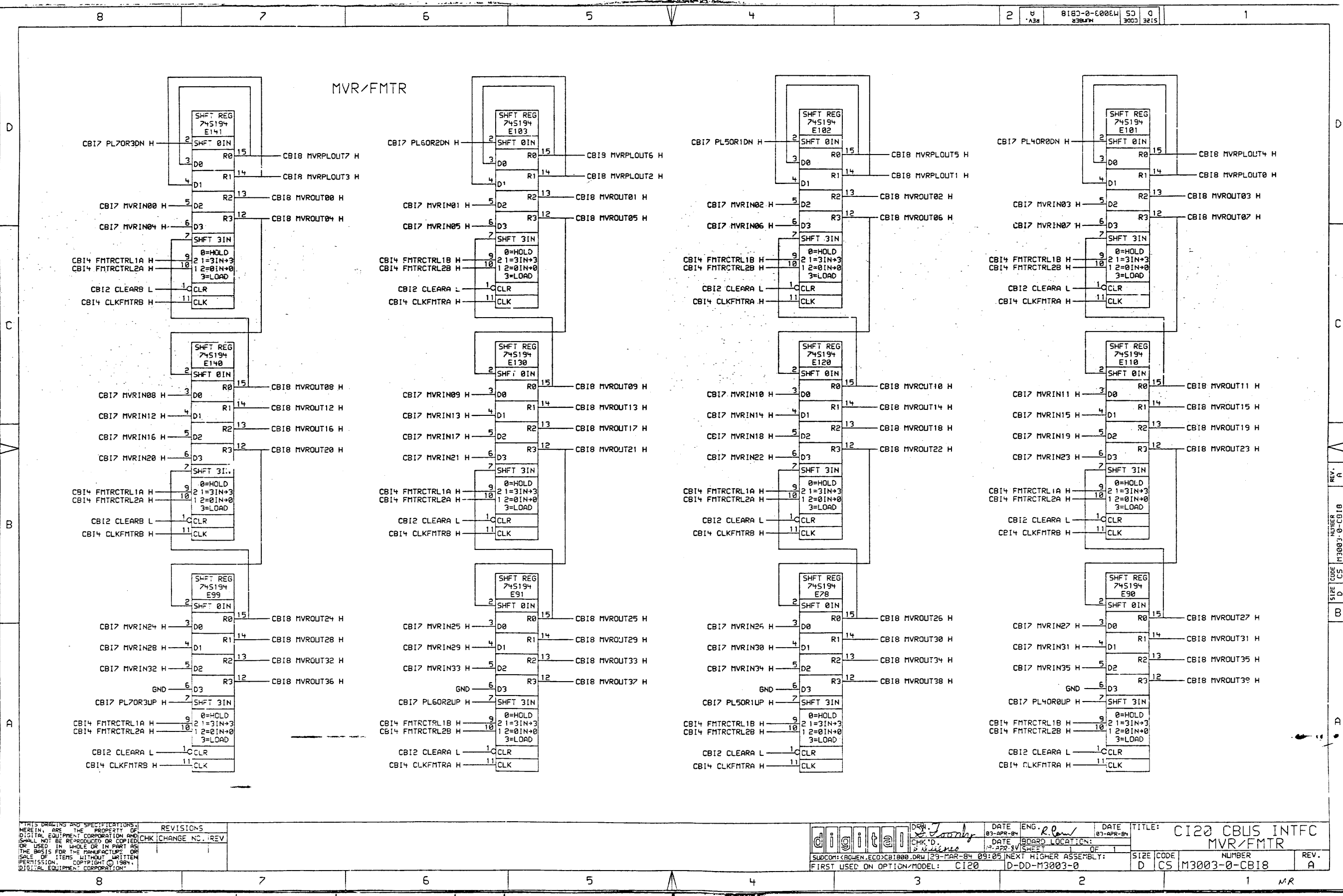
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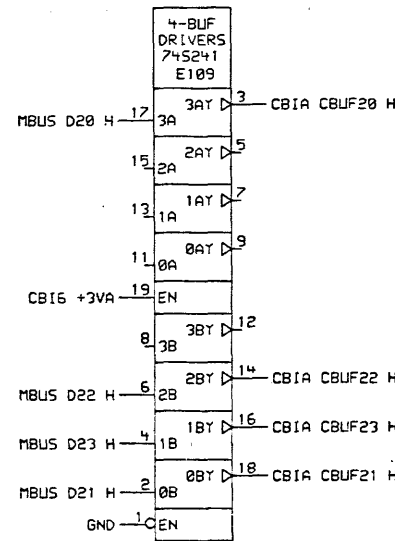
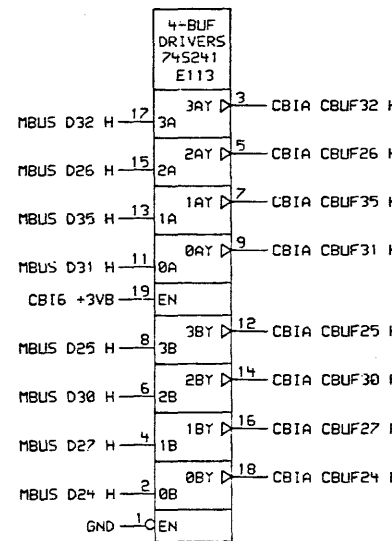
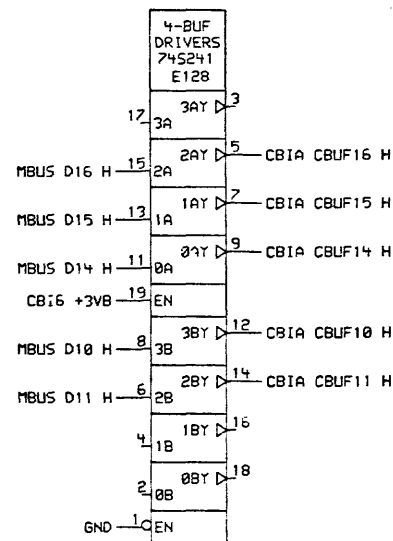
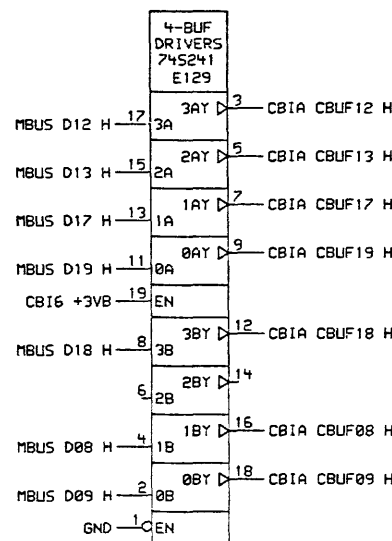
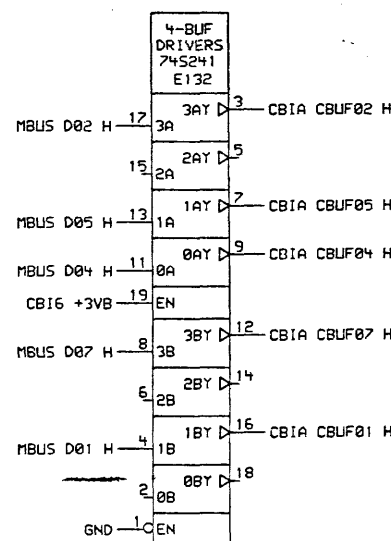
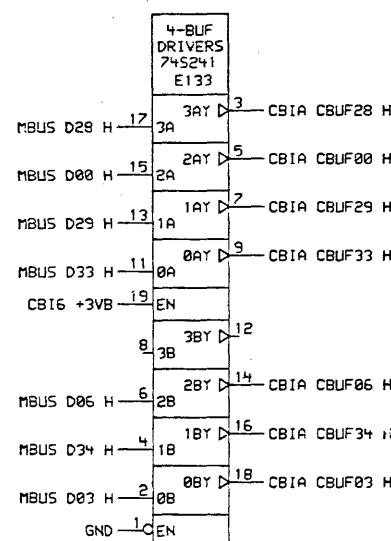
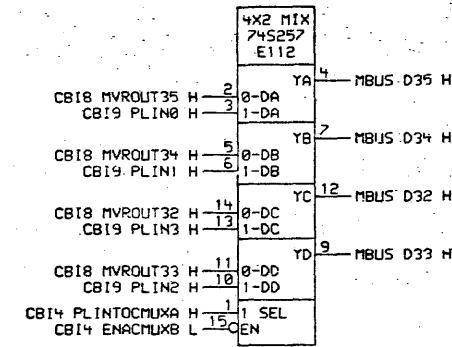
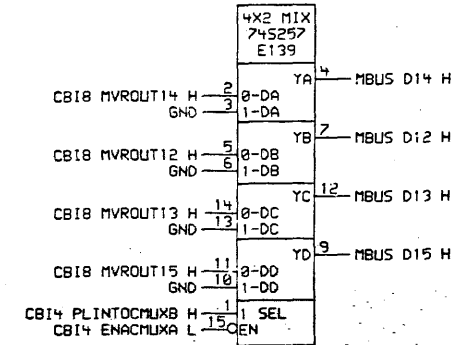
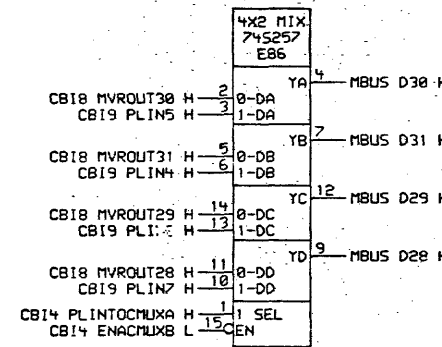
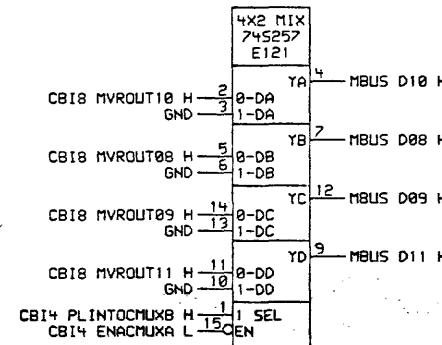
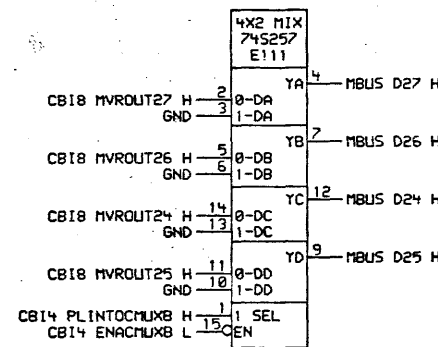
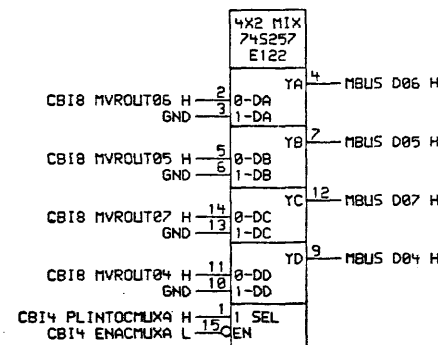
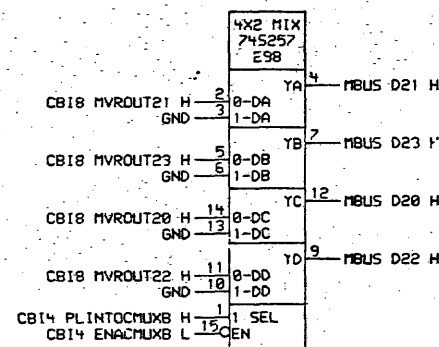
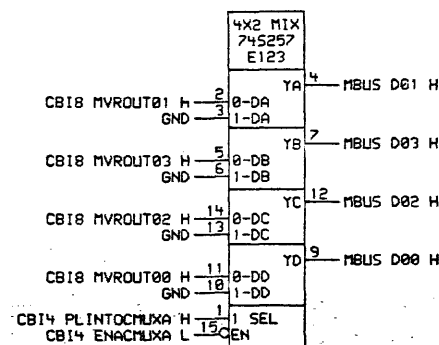
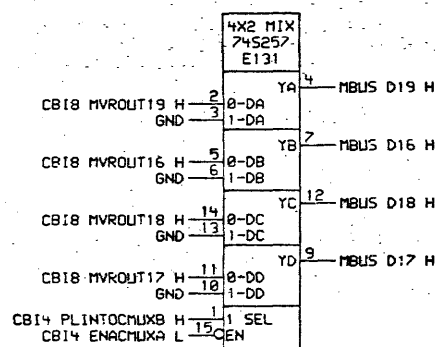
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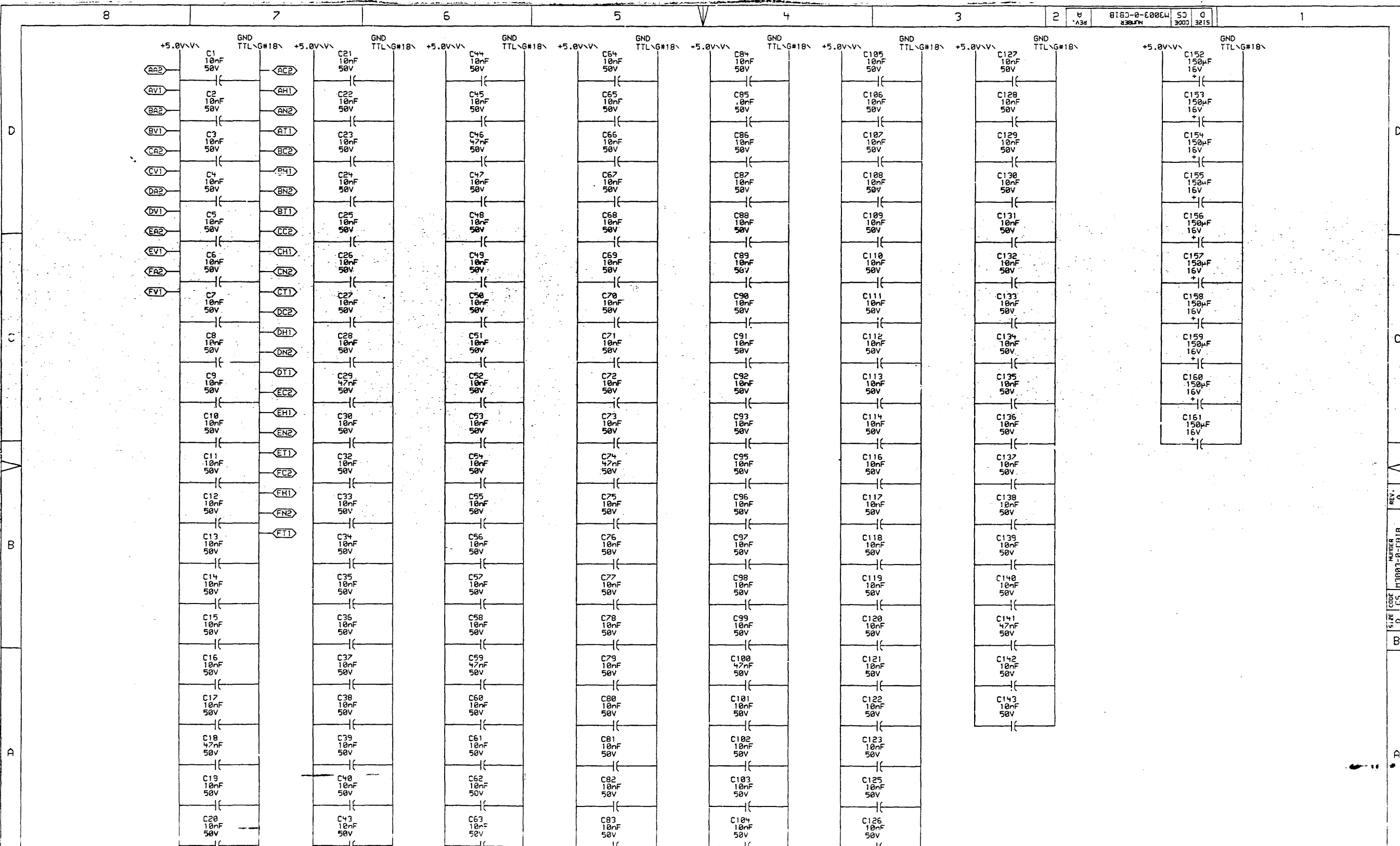
CMUX



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REVISIONS
CHK CHANGE NO. REV

digital
DATE 03-APR-84
ENG. R. L. L. L.
DATE 03-APR-84
SHEET 1 OF 1
TITLE: C120 CBUS INTFC MBUS INTERFACE
NUMBER M3003-0-CBIA
REV. A



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REVISIONS		CHK. CHANGE NO. REV.		DATE 03-APR-84		DATE 03-APR-84	
SUDCOM: BOWEN.ECD\CB1000.DRW 129-MAR-84 09:06 INEXT: HIGHER ASSEMBLY:		FIRST USED ON OPTION/MODEL: C120		D-DD-M3003-0		SIZE CODE D CS M3003-0-CB1B	
8		7		6		5	
4		3		2		1	

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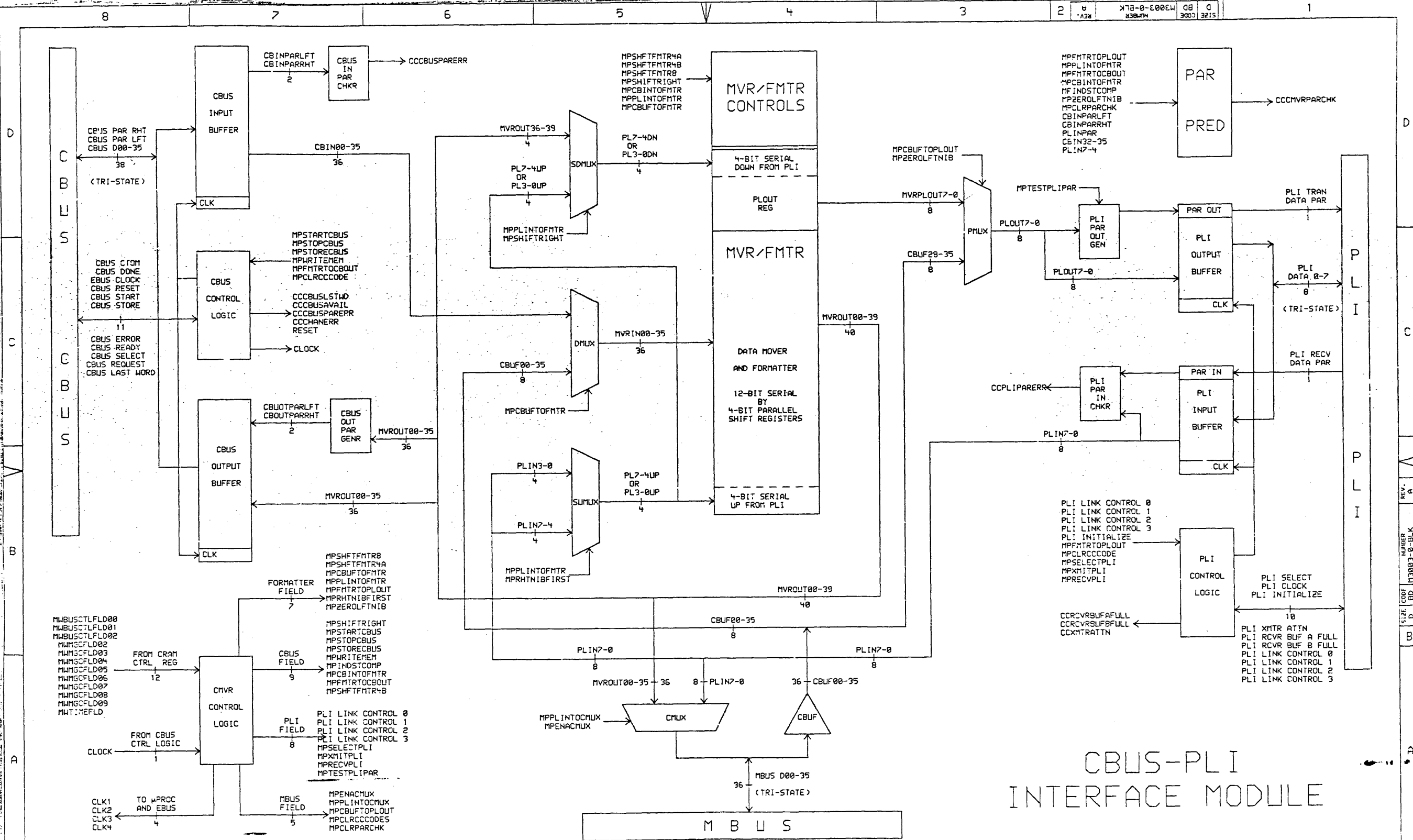
A

AB2	N/C SEE NOTE 3	BF1	N/C EXTRA GND	DB2	N/C SEE NOTE 3	EP2	N/C SEE NOTE 2	FL3	N/C SEE NOTE 2						
AB1	N/C SEE NOTE 3	BH2	EBUS D31 L	DB1	N/C SEE NOTE 3	EP1	N/C SEE NOTE 2	FL1	N/C SEE NOTE 2						
AC1	N/C EXTRA GND	BJ2	EBUS D34 L	DU1	N/C SEE NOTE 3	ER2	N/C SEE NOTE 2	FM2	N/C SEE NOTE 2						
AH2	N/C EXTRA GND	BJ1	EBUS D30 L	ER2	N/C SEE NOTE 3	ER1	N/C SEE NOTE 2	FM1	N/C SEE NOTE 2						
AJ1	N/C SEE NOTE 1	BK1	EBUS D35 L	EB1	N/C SEE NOTE 3	ES2	N/C SEE NOTE 2	FN1	N/C EXTRA GND						
AK2	EBUS D27 L	BL1	EBUS D17 L	EC1	N/C EXTRA GND	ES1	N/C SEE NOTE 2	FP2	N/C SEE NOTE 2						
AK1	EBUS D28 L	BM1	N/C EXTRA GND	ED2	N/C SEE NOTE 2	ET2	N/C EXTRA GND	FP1	N/C SEE NOTE 2						
AL2	EBUS D26 L	BN1	N/C EXTRA GND	ED1	N/C SEE NOTE 2	EU1	N/C SEE NOTE 3	FR2	N/C SEE NOTE 2						
AL1	EBUS D29 L	BP2	N/C EXTRA GND	EE2	N/C SEE NOTE 2	FB2	N/C SEE NOTE 3	FR1	N/C SEE NOTE 2						
AN1	N/C EXTRA GND	BP1	EBUS D24 L	EE1	N/C SEE NOTE 2	FB1	N/C SEE NOTE 3	FS2	N/C SEE NOTE 2						
AT2	N/C EXTRA GND	BR2	EBUS D21 L	EF2	N/C SEE NOTE 2	FC1	N/C EXTRA GND	FS1	N/C SEE NOTE 2						
AU2	N/C SEE NOTE 1	BR1	EBUS D19 L	EF1	N/C SEE NOTE 2	FD2	N/C SEE NOTE 2	FT2	N/C EXTRA GND						
AU1	N/C SEE NOTE 3	BS2	EBUS D20 L	EH2	N/C EXTRA GND	FD1	N/C SEE NOTE 2	FU2	N/C EXTRA GND						
BB2	N/C SEE NOTE 3	BS1	EBUS D23 L	EJ2	N/C SEE NOTE 2	FE2	N/C SEE NOTE 2	FU1	N/C SEE NOTE 3						
BB1	N/C SEE NOTE 3	BT2	EBUS D18 L	EJ1	N/C SEE NOTE 2	FE1	N/C SEE NOTE 2	FV2	N/C SEE NOTE 4						
BC1	N/C EXTRA GND	BU2	EBUS D25 L	EK2	N/C SEE NOTE 2	FF2	N/C SEE NOTE 2	NOTE 1: THESE PINS ARE CONNECTED AS SHOWN BELOW <table><tr><td>FROM</td><td>TO</td></tr><tr><td>F1352</td><td>A15J1</td></tr><tr><td>E13V2</td><td>A15U2</td></tr></table>		FROM	TO	F1352	A15J1	E13V2	A15U2
FROM	TO														
F1352	A15J1														
E13V2	A15U2														
BD2	EBUS D32 L	BU1	N/C SEE NOTE 3	EK1	N/C SEE NOTE 2	FF1	N/C SEE NOTE 2								
BD1	N/C EXTRA GND	BV2	EBUS D22 L	EL2	N/C SEE NOTE 2	FH2	N/C EXTRA GND	NOTE 2: RSVD FOR MASS BUS NOTE 3: RSVD FOR -5.2V NOTE 4: THESE PINS DO NOT CONNECT TO EITHER THE EBUS OR MPROC							
BE2	N/C EXTRA GND	CB2	N/C SEE NOTE 3	EL1	N/C SEE NOTE 2	FJ2	N/C SEE NOTE 2								
BE1	EBUS D33 L	CB1	N/C SEE NOTE 3	EM2	N/C SEE NOTE 2	FJ1	N/C SEE NOTE 2								
BF2	N/C EXTRA GND	CC1	N/C EXTRA GND	EM1	N/C SEE NOTE 2	FK2	N/C SEE NOTE 2								
		CU1	N/C SEE NOTE 3	EN1	N/C EXTRA GND	FK1	N/C SEE NOTE 2								

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REVISIONS
CHK CHANGE NO. REV

digital	DATE	ENG	DATE	TITLE:
	83-APR-84	R. L. Brown	83-APR-84	C120 CBUS INTFC UNUSED FINGERS
CHK'D	DATE	BOARD LOCATION:	DATE	
6/8/84	4-APR-84	1 OF 1		
SUDCOM: <BOWEN.ECO>C81C00.DRW 29-MAR-84 09:05 NEXT HIGHER ASSEMBLY:				SIZE CODE
FIRST USED ON OPTION MODEL: C120				D CS
				NUMBER
				M3003-0-CBIC
				REV.
				A



CBUS-PLI
INTERFACE MODULE

DRAWING NUMBER	NO.OF SHT	PART NUMBER	DESCRIPTION	REVISION	ECO L0072 MR001
E-UA-L0072-0-0	2	L0072-00	MODULE REVISION NIA	A1	A2
K-PL-L0072-0-DBP	4		PART LIST, L0072	A	-
E-UA-L0072-0-1	1		NIA	-	A
K-PL-L0072-1-DBP	4		PARTS LIST, L0072	-	A
D-CS-L0072-0-NIAA	1		LINK CONTROL & PHYS ADDRESS	A	B
D-CS-L0072-0-NIAB	1		XMIT STATUS & PLI MUX	A	B
D-CS-L0072-0-NIAC	1		TDR REG. & PHYS ADDR ROM	A	B
D-CS-L0072-0-NIAD	1		TRANSMIT BUF TIMING & ADDR COUNTER	A	B
D-CS-L0072-0-NIAE	1		TRANSMIT CONTROL LOGIC	A	B
D-CS-L0072-0-NIAF	1		TRANSMIT BUFFER	A	B
D-CS-L0072-0-NIAG	1		RETRY LOGIC	A	B
D-CS-L0072-0-NIAH	1		CRC LOGIC	A	B
D-CS-L0072-0-NIAI	1		RX SHIFT,FRAMING & ADDRESS COMPARE	A	B
D-CS-L0072-0-NIAJ	1		REC & RX MEM CONTROL LOGIC	A	B
D-CS-L0072-0-NIAK	1		RCV STAT & FREE USED BUF LISTS	A	B
D-CS-L0072-0-NIAL	1		RECEIVE MEMORY ADDRESS COUNTERS	A	B
D-CS-L0072-0-NIAM	1		RECEIVE MEMORY ADDRESS MUX	A	B
D-CS-L0072-0-NIAN	1		RECEIVE MEMORY	A	B
D-CS-L0072-0-NIAO	1		MANCHESTER DECODER AND CSLN DET	A	B
D-CS-L0072-0-NIAP	1		MANCHESTER ENCODER AND CLK	A	B
D-CS-L0072-0-NIAQ	1		CAPDRW 1 PWR & GND	A	B
D-CS-L0072-0-NIAR	1		CAPDRW 2 N/C PINS	A	B
D-CS-L0072-0-NIAS	1		-5.2V CAP	A	B
D-BD-L0072-0-BD	1		L0072 BLOCK DIAG	-	A
K-PC-L0072-0-DBI	-		P.C. DESIGN DATA BASE TAPE	B	C
D-DD-5015697-0	1		5015697 DRAWING DIRECTORY	REF	REF

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REV. B
NUMBER DD
L0072-0



NOTE: 1. STATE COMPANY LOCATION, AND:
 2. DATE OF LAST INSPECTION
 3. NAME OF LAST INSPECTOR
 4. NAME OF UNIT DRIVER
 5. UNIT NO. (UNITED STATES)

UNIT NO.	DATE	INSPECTOR	UNIT DRIVER
1	10/10/50	W. H. HARRIS	W. H. HARRIS
2	10/10/50	W. H. HARRIS	W. H. HARRIS
3	10/10/50	W. H. HARRIS	W. H. HARRIS
4	10/10/50	W. H. HARRIS	W. H. HARRIS
5	10/10/50	W. H. HARRIS	W. H. HARRIS
6	10/10/50	W. H. HARRIS	W. H. HARRIS
7	10/10/50	W. H. HARRIS	W. H. HARRIS
8	10/10/50	W. H. HARRIS	W. H. HARRIS
9	10/10/50	W. H. HARRIS	W. H. HARRIS
10	10/10/50	W. H. HARRIS	W. H. HARRIS
11	10/10/50	W. H. HARRIS	W. H. HARRIS
12	10/10/50	W. H. HARRIS	W. H. HARRIS
13	10/10/50	W. H. HARRIS	W. H. HARRIS
14	10/10/50	W. H. HARRIS	W. H. HARRIS
15	10/10/50	W. H. HARRIS	W. H. HARRIS
16	10/10/50	W. H. HARRIS	W. H. HARRIS
17	10/10/50	W. H. HARRIS	W. H. HARRIS
18	10/10/50	W. H. HARRIS	W. H. HARRIS
19	10/10/50	W. H. HARRIS	W. H. HARRIS
20	10/10/50	W. H. HARRIS	W. H. HARRIS
21	10/10/50	W. H. HARRIS	W. H. HARRIS
22	10/10/50	W. H. HARRIS	W. H. HARRIS
23	10/10/50	W. H. HARRIS	W. H. HARRIS
24	10/10/50	W. H. HARRIS	W. H. HARRIS
25	10/10/50	W. H. HARRIS	W. H. HARRIS
26	10/10/50	W. H. HARRIS	W. H. HARRIS
27	10/10/50	W. H. HARRIS	W. H. HARRIS
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29	10/10/50	W. H. HARRIS	W. H. HARRIS
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31	10/10/50	W. H. HARRIS	W. H. HARRIS
32	10/10/50	W. H. HARRIS	W. H. HARRIS
33	10/10/50	W. H. HARRIS	W. H. HARRIS
34	10/10/50	W. H. HARRIS	W. H. HARRIS
35	10/10/50	W. H. HARRIS	W. H. HARRIS
36	10/10/50	W. H. HARRIS	W. H. HARRIS
37	10/10/50	W. H. HARRIS	W. H. HARRIS
38	10/10/50	W. H. HARRIS	W. H. HARRIS
39	10/10/50	W. H. HARRIS	W. H. HARRIS
40	10/10/50	W. H. HARRIS	W. H. HARRIS
41	10/10/50	W. H. HARRIS	W. H. HARRIS
42	10/10/50	W. H. HARRIS	W. H. HARRIS
43	10/10/50	W. H. HARRIS	W. H. HARRIS
44	10/10/50	W. H. HARRIS	W. H. HARRIS
45	10/10/50	W. H. HARRIS	W. H. HARRIS
46	10/10/50	W. H. HARRIS	W. H. HARRIS
47	10/10/50	W. H. HARRIS	W. H. HARRIS
48	10/10/50	W. H. HARRIS	W. H. HARRIS
49	10/10/50	W. H. HARRIS	W. H. HARRIS
50	10/10/50	W. H. HARRIS	W. H. HARRIS

REWORK INSTRUCTIONS

NEW RELEASE

0-1 THRU 0-17 FOR ETCH CUTS REFER TO
E-EC-5015637-0-0

COMPONENT ADDS, SIDE 1, AS SHOWN
0-18 R154 (P/N 1300229-00)
0-19 R155 (P/N 1300219-00)

LIFT PINS, SIDE 1
0-20 LIFT BOTTOM PIN OF R61 (CLOSEST TO FINGERS)
0-21 LIFT BOTTOM PIN OF R57 (SIDE CLOSEST TO FINGERS)

WIRE ADD, SIDE 1, (P/N 9107460-55)
0-22 R88 TOP (SIDE AWAY FROM FINGERS) TO R50 BOTTOM (SIDE CLOSEST TO FINGERS)

WIRE ADDS, SIDE 1, (P/N 9105740-55)
0-23 E43-2 TO E25-1
0-24 E44-2 TO E63-4
0-25 E179-4 TO C242-2 (NEGATIVE SIDE OF CAP)
0-26 E204-3 TO E235-11
0-27 E204-3 TO R97-1 (SIDE AWAY FROM FINGERS)
0-28 E159-3 TO E202-4
0-29 E190-8 TO E202-5
0-30 E190-8 TO E91-4
0-31 E202-6 TO E85-3
0-32 E91-13 TO E85-2
0-33 E91-6 TO E91-1
0-34 E74-9 TO E91-3
0-35 E91-12 TO E35-10
0-36 E91-2 TO E91-5
0-37 E91-5 TO E109-1
0-38 E91-12 TO E190-5
0-39 FINGER PIN C2 TO FINGER PIN C46
0-40 E111-15 TO E111-8
0-41 R61 BOTTOM (CLOSEST TO FINGERS) TO E181-14
0-42 E157-9 TO E157-3
0-43 E157-4 TO E159-3
0-44 E61-8 TO E143-19
0-45 E228-1 TO E225-15
0-46 E228-2 TO E230-8
0-47 E228-16 TO R36-2 (SIDE CLOSEST TO FINGERS)
0-48 E228-15 TO E228-16
0-49 R57-2 (SIDE CLOSEST TO FINGERS) TO LIFTED END OF R61 (SIDE CLOSEST TO FINGERS)
0-50 E196-2 TO E198-3
0-51 E197-11 TO E199-6
0-52 E197-3 TO E195-8
0-53 E138-10 TO E193-3
0-54 E81-8 TO E139-12

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
			VARIATION REVISION LEVEL:	00 A1	
1	1	D-MD-5015697-0-0	5015697-01	DRILL AND ETCH FOR L0072	1
2	2		1000019-00	150.0 MMF 100V 5%200PPM MICA	2
3	3		1001610-00	.01 MFD 50V +80-20% Z5U CER	245
					C251,C253
					C1-C63,C70-C74,C80-C94,
					C100-C238,C245,C248,C249,
					C254-C265,C270-C277
4	4		1002424-00	1200.0 MMF 100V 5%200PPM MICA	2
5	5		1012084-01	8 MFD 25V +75-10% AL EL	1
6	6		1012784-00	.047 MFD 50V +80-20% CER	20
					C250,C252
					C242
					C64-C69,C75-C79,C95-C99,
					C266-C269
7	7		1016681-00	.47 MFD 50V +80-20% CER	1
8	8		1018220-03	1500 MFD 16V+100-10% AL EL	5
9	9		1018220-04	220 MFD 6V+100-10% AL EL	1
10	10		1100113-00	D 662 OS 600PCB(STABISTOR)	2
11	11		1100114-00	PIV= 25 IO=135 MA	4
12	12		1105871-00	VZ= 5.15 1% 250 MW	1
13	13		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1
14	14		1300171-00	10.0 1.0 W 5.0 % CC	1
15	15		1300219-00	68.0 .25 W 5.0 % CF	54
					R51
					R7,R13-R21,R24,R36,R42,R47,R48,
					R55,R56,R62-R71,R73-R75,R80,R90,
					R99,R101,R103-R109,R111-R116,
					R122,R125,R139-R141,R145,R155
16	16		1300229-00	100.0 .25 W 5.0 % CF	17
					R27,R29-R34,R38,R39,R43,R46,R49,
17	17		1300309-00	390.0 .25 W 5.0 % CF	23
					R52,R96,R133,R134,R154
					R53,R59,R72,R76,R78,R83,R85,R87,
					R94,R97,R126,R128,R130,R132,
					R136,R138,R143,R146,R149-R153
18	18		1300316-00	470.0 .25 W 5.0 % CF	3
19	19		1300365-00	1.0 K .25 W 5.0 % CF	4
20	20		1300439-00	3.30 K .25 W 5.0 % CF	1
21	21		1300496-00	15.0 K .25 W 5.0 % CF	1
					R3,R60,R110
					R4,R28,R37,R119
					R57
					R117

REVISION HISTORY		BASIC PART NO: L0072		DRN: D,DELLORCO		DATE: 06-JUL-84		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	D,DELLORCO	DATE:	06-JUL-84	TITLE	PARTS LIST
	INITIAL	A	SECTION VARIATION INDEX					L0072	
			[A] 00					NIA	
			[B]						
			[C]	DES.ENG:	R,NEMET	DATE:	06-JUL-84	DOCUMENT NUMBER	
			[D]					SIZE	CODE
			[E]					NUMBER	REV
			[F]	RESP.ENG.:	R,NEMET	DATE:	06-JUL-84	K	PL
			[H]					L0072-0-DBP	A
			[J]						
			[K]	MFG.ENG.:	D,FORMAN	DATE:	18-DEC-84	RELEASE DATE:	14-JAN-85
			[L]						
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			[N]	E-UA-L0072-0-0		D-DD-L0072-0		MR378A.PLS	14

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY	PER VARIATION	REFERENCE DESIGNATOR
22	22		1301322-00		180.0 .25 W 5.0 % CF		23		R23,R35,R41,R44,R45,R61,R77,R79, CONT R81,R84,R86,R89,R92,R95,R98, CONT R127,R129,R131,R135,R137,R142, CONT R144,R147
23	23		1301424-00		680.0 .25 W 5.0 % CF		1		R58
24	24		1302388-00		2.0 K .25 W 5.0 % CF		4		R9,R10,R26,R120
25	25		1302391-00		20.0 K .25 W 5.0 % CF		1		R8
26	26		1302466-00		100.0 K .25 W 5.0 % CF		1		R40
27	27		1303064-00		75.0 .25 W 1.0 % RN55D-F10		1		R93
28	28		1303179-00		8.20 K .25 W 5.0 % CF		3		R11,R82,R91
29	29		1303312-00		10.0 K .25 W 1.0 % RN55D-F10		2		R12,R148
30	30		1305121-00		38.30 .25 W 1.0 % RN55D-F10		4		R5,R6,R123,R124
31	31		1309294-00		105.0 .25 W .10% RN55E-B 2		1		R54
32	32		1309729-00		15.0 1.0 W 5.0 % CC		1		R50
33	33		1313150-00		430.0 .25 W 5.0 % CF		8		R1,R2,R22,R25,R100,R102,R118, CONT R121
34	34		1319471-01		10.0 2.0 W 5.0 % M.OXIDE		1		R88
35	35		1510706-02		C 55 PNP 500MW SI		2		Q1,Q2
36	36		1611601-00		DELAY= 50NS,TAPPED LINE		1		E211
37	37		1616653-01		DELAY= 100NS,10TAPS WITH TTLBU		2		E177,R195
38	38		1619248-00		DELAY= 25/74NS ECL MULTI-LOGIC		1		E230
39	39		1811660-00		OSCILLATOR, XTAL 20,000 MHZ		1		E161
40	40		1910532-B0		74S00 BURNED-IN NAND GATE-		5		E43,E112,E130,E107,E202
41	41		1910534-B0		74S04 BURNED-IN INVERTER G		9		E9,E45,E60,E105,E130,E154,E157, CONT E186,E201
42	42		1910536-B0		74S10 BURNED-IN NAND GATE-		5		E44,E91,E118,E190,E198
43	43		1910537-B0		74S11 BURNED-IN AND GATE-T		3		E7,E119,E218
44	44		1910539-B0		74S20 BURNED-IN NAND GATE-		6		E46,E47,E53,E131,E167,E169
45	45		1910542-B0		74S64 BURNED-IN A-O-I GATE		2		E84,E156
46	46		1910544-B0		74S74 BURNED-IN FF-D DUAL,		10		E4,E5,E41,E116,E142,E146,E159, CONT E170,E200,E233
47	47		1910544-01		74S74-60GG-D DUAL,EDGE TRIG		2		E141,E197
48	48		1910545-B0		74S112 BURNED-IN FF-JK DUAL		1		E123
49	49		1910547-B0		74S153 BURNED-IN MUX 1 OF 4		1		E111
50	50		1910548-B0		74S157 BURNED-IN MUX 1 OF 2		5		E72,E128,E135,E137,E216
51	51		1910549-B0		74S158 BURNED-IN MUX 1 OF 2		4		E16,E17,E55,E58
52	52		1910550-B0		74S174 BURNED-IN FF-D HEX		2		E38,E59
53	53		1910957-B0		74S175 BURNED-IN FF-D QUAD		2		E148,E194
54	54		1911402-00		10105 OR/NOR GATE,2-3-2		3		E207,E213,E225
55	55		1911404-00		10107 XOR/NOR GATE,3-2IN		2		E226,E229
56	56		1911414-00		10124 TTL TO ECL TRNSLTR		2		E182,E184
57	57		1911415-00		10125 ECL TO TTL TRNSLTR		2		E183,E185
58	58		1911506-00		10173 MUX-QUAD 2IN W/OUTPU		1		E224
59	59		1911573-B0		74S280 BURNED-IN PARITY GEN		3		E90,E113,E219
60	60		1911641-B0		74S257 BURNED-IN MUX,QUAD 2		1		E28
61	61		1911675-B0		74S138 BURNED-IN DECODER/DE		2		E191,E192
62	62		1911676-B0		74S139 BURNED-IN DECODER-DU		1		E175
63	63		1911712-B0		74S51 BURNED-IN AND/OR GAT		3		E106,E176,E232

D I G I T A L					TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
					L0072					
					NIA					
							K	PL	L0072-0-DBP	A

LINE ITEM	TCP	DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY 00 A1	PER VARIATION	REFERENCE DESIGNATOR
VARIATION REVISION LEVEL:								
64	64		1911983-B0		74S133 BURNED-IN NAND GATE-	2		E8,E51
65	65		1912096-B0		74S86 BURNED-IN XOR GATE,Q	1		E94
66	66		1912388-B0		74S02 BURNED-IN NOR GATE-Q	7		E21,E80,E82,E102,E168,E188,E217
67	67		1912389-B0		74S08 BURNED-IN AND GATE,Q	4		E34,E57,E63,E178
68	68		1912656-B0		LS67 BURNED-IN REGISTER F	4		E199,E206,E221,E222
69	69		1912660-B0		74S253 BURNED-IN MUX 1 OF 4	4		E104,E125,E164,E165
70	70		1912746-B0		74S37 BURNED-IN NAND GATE-	4		E3,E100,E150,E203
71	71		1912799-B0		LS00 BURNED-IN NAND GATE-	1		E138
72	72		1912801-B0		LS02 BURNED-IN NOR GATE-Q	3		E39,E162,E183
73	73		1912805-B0		LS08 BURNED-IN AND GATE-Q	3		E86,E181,E196
74	74		1912813-B0		LS27 BURNED-IN NOR GATE-T	1		E205
75	75		1912824-B0		LS74 BURNED-IN FF-D DUAL-	1		E204
76	76		1912833-00		LS109 FF-JK DUAL,POS EDGE	1		E136
77	77		1912834-B0		LS112 BURNED-IN FF-JK DUAL	5		E103,E120-E122,E124
78	78		1912849-B0		LS161 BURNED-IN COUNTER,SY	9		E1,E10-E13,E29,E40,E147,E220
79	79		1912851-B0		LS169 BURNED-IN COUNTER,SY	4		E107-E109,E117
80	80		1912853-B0		LS175 BURNED-IN FF-D,QUAD	2		E83,E101
81	81		1912863-B0		LS273 BURNED-IN FF-D,OCTAL	1		E237
82	82		1913009-00		4N36 OPTO COUPLED ISLTR	1		E180
83	83		1913220-00		10216 RECEIVER,TRIPLE LINE	2		E223,E227
84	84		1913294-B0		93S16 BURNED-IN COUNTER,SY	10		E2,E15,E18-E20,E35,E37,E54,E56,E74
85	85		1913340-B0		74S32 BURNED-IN OR GATE,QU	1	CONT	E193
86	86		1913493-B0		74S241 BURNED-IN OCTAL BUFF	2		E140,E160
87	87		1913671-B0		74S374 BURNED-IN FF-D OCTAL	3		E36,E93,E235
88	88		1913671-50		74S374 FF-D,OCTAL,TRI STATE	4		E61,E62,E85,E88
89	89		1913888-00	DC	102A EQUALS CHECKER 8BIT	1		E236
90	90		1914084-00		74S299 SHIFT REG.,8BIT RIGH	3		E25,E153,E234
91	91		1914085-B0		74S260 BURNED-IN NOR GATE,D	4		E14,E52,E70,E129
92	92		1914156-00	LM	393 VOLT.COMPARATOR DUAL	1		E179
93	93		1914768-00	C	67401J MEMORY FIFO,SERIAL	6		E110,E114,E115,E127,E149,E166
94	94		1914845-00		2918 FF-D QUAD TRI-STATE	6		E132-E134,E172-E174
95	95		1914866-00	AM	93S48PCGEN/CHECK PARITY, 4B	1		E6
96	96		1917244-B0		74S169 BURNED-IN COUNTER,SY	3		E48-E50
97	97		1918353-00		10231 FF-D MASTER-SLAVE	5		E208-E210,E212,E214
98	98		2116957-13		1KX4 MOS RAM 55NS	6		E64-E69
99	99		2118054-04		16K MOS RAM STATIC	10		E75-E79,E95-E99
100	100		23058K4-00	K4-01		1		E81
101	101		23059K4-00	K4-01		1		E22
102	102		23060K4-00	K4-01		1		E23
103	103		23071K5-00	K5-01		2		E32,E73
104	104		23072K5-00	K5-01		2		E31,E89
105	105		23082K5-00	K5-01		1		E26
106	106		23083K5-00	K5-01		1		E27
107	107		23084K5-00	K5-01		1		E30
108	108		23085K5-00	K5-01		1		E158
109	109		23086K5-00	K5-01		1		E145
110	110		23106K3-00	K3-01	PAL,REG	2		E151,E152

D I G I T A L				TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
				L0072					
				NIA					
						K	PL	L0072-0-DBP	A

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN	DESCRIPTION	QTY PER VARIATION		REFERENCE DESIGNATOR
				REV		00	A1	
				VARIATION REVISION LEVEL:				
111	111	D-IA-7019209-0-0	23107K3-00	K3-01	PAL,REG	1	E143	
112	112		23112K3-00	K3-01	PAL,REG	1	E24	
113	113		23113K3-00	K3-01	PAL,REG	1	E144	
114	114		23167J5-00	J5-01	PAL,LOGIC	1	E92	
115	115		7019209-00	BUSBAR ASSY (1.4 CTRS)		1	W1	
116	116		9000024-01	EYELET,ROLLED	0.1210DX0.192	12		
117	117		23384A1-00	A1-07		1	E71	
118	118		23365A1-00	A1-09		1	E171	
119	119		9010213-01	SPACER,DUAL IN-LINE NYLN .450		1		

120 NOTE: 1. SPARE COMPONENT LOCATIONS ARE: E33,E42,E87,E126,E155,E189,E215,
121 NOTE: E228,E231,E238
122 NOTE: 2. ITEM #119 PART #9010213-01 USED UNDER ITEM #39 PART #1811660-00

DIGITAL		TITLE		SECTION A OF A		SIZE CODE		DOCUMENT NUMBER		REV	
		L0072						L0072-0-DBP		A	
		NIA									

[illegible][illegible]

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				VARIATION REVISION LEVEL:	00		
					A2		
1	1	D-MD-5015697-0-0	5015697-01	DRILL AND ETCH FOR L0072	1		
2	2		1000019-00	150.0 MMF 100V 5%200PPM MICA	2		C251,C253
3	3		1001610-00	.01 MFD 50V +80-20% Z5U CER	245		C1-C63,C70-C74,C80-C94,
						CONT	C100-C238,C245,C248,C249,
						CONT	C254-C265,C270-C277
4	4		1002424-00	1200.0 MMF 100V 5%200PPM MICA	2		C250,C252
5	5		1012084-01	8 MFD 25V +75-10% AL EL	1		C242
6	6		1012784-00	.047 MFD 50V +80-20% CER	20		C64-C69,C75-C79,C95-C99,
						CONT	C266-C269
7	7		1016681-00	.47 MFD 50V +80-20% CER	1		C247
8	8		1018220-03	1500 MFD 15V+100-10% AL EL	5		C239-C241,C243,C244
9	9		1018220-04	220 MFD 6V+100-10% AL EL	1		C246
10	10		1100113-00	D 662 OS 600PC8(STABISTOR)	2		D5,D6
11	11		1100114-00	PIV= 25 IO=135 MA	4		D1-D4
12	12		1105871-00	VZ= 5.15 1% 250 MW	1		D7
13	13		1216989-02	HANDLE,MODULE,HEX TWO EJECTORS	1		
14	14		1300171-00	10.0 1.0 W 5.0 % CC	1		R51
15	15		1300219-00	68.0 .25 W 5.0 % CF	54		R7,R13-R21,R24,R36,R42,R47,R48,
						CONT	R55,R56,R62-R71,R73-R75,R80,R90,
						CONT	R99,R101,R103-R109,R111-R116,
						CONT	R122,R125,R139-R141,R145,R155
16	16		1300229-00	100.0 .25 W 5.0 % CF	17		R27,R29-R34,R38,R39,R43,R46,R49,
						CONT	R52,R96,R133,R134,R154
17	17		1300309-00	390.0 .25 W 5.0 % CF	23		R53,R59,R72,R76,R78,R83,R85,R87,
						CONT	R94,R97,R126,R128,R130,R132,
						CONT	R136,R138,R143,R146,R149-R153
18	18		1300316-00	470.0 .25 W 5.0 % CF	3		R3,R60,R110
19	19		1300365-00	1.0 K .25 W 5.0 % CF	4		R4,R28,R37,R119
20	20		1300439-00	3.30 K .25 W 5.0 % CF	1		R57
21	21		1300496-00	15.0 K .25 W 5.0 % CF	1		R117

REVISION HISTORY			BASIC PART NO: L0072			DRN: D.DELLORCO			DATE: 06-JUL-84			DIGITAL		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: D.DELLORCO			DATE: 06-JUL-84			TITLE PARTS LIST		
	L0072-MR001	A	SECTION VARIATION INDEX			DES.ENG: R.NEMET			DATE: 06-AUG-84			DOCUMENT NUMBER		
			[A] 00			RESP.ENG.: R.NEMET			DATE: 06-AUG-84			SIZE CODE NUMBER REV		
			[B]			MFG.ENG.: D.FORMAN			DATE: 06-AUG-84			K PL L0072-1-DBP A		
			[C]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:		
			[D]			E-UA-L0072-0-0			D-DD-L0072-0			MR477A.PLS		
			[E]											
			[F]											
			[G]											
			[H]											
			[I]											
			[J]											
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			[N]											

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:	QTY PER VARIATION		REFERENCE DESIGNATOR
						00	A2	
22	22	1301322-00		180.0 .25 W 5.0 % CF		23		R23,R35,R41,R44,R45,R61,R77,R79, R81,R84,R86,R89,R92,R95,R98, R127,R129,R131,R135,R137,R142, R144,R147
								CONT R58
								CONT R9,R10,R26,R120
								CONT R8
23	23	1301424-00		680.0 .25 W 5.0 % CF		1		R40
24	24	1302388-00		2.0 K .25 W 5.0 % CF		4		R93
25	25	1302391-00		20.0 K .25 W 5.0 % CF		1		R11,R82,R91
26	26	1302466-00		100.0 K .25 W 5.0 % CF		1		R12,R148
27	27	1303064-00		75.0 .25 W 1.0 % RN55D-F10		1		R5,R6,R123,R124
28	28	1303179-00		8.20 K .25 W 5.0 % CF		3		R54
29	29	1303312-00		10.0 K .25 W 1.0 % RN55D-F10		2		R50
30	30	1305121-00		38.30 .25 W 1.0 % RN55D-F10		4		R1,R2,R22,R25,R100,R102,R118, R121
31	31	1309294-00		105.0 .25 W .10% RN55E-8 2		1		CONT R88
32	32	1309729-00		15.0 1.0 W 5.0 % CC		1		Q1,Q2
33	33	1313150-00		430.0 .25 W 5.0 % CF		8		E211
								E177,R195
34	34	1319471-01		10.0 2.0 W 5.0 % M.OXIDE		1		E230
35	35	1510706-02		C 55 PNP 500MW SI		2		E161
36	36	1611601-00		DELAY= 50NS,TAPPED LINE		1		E43,E112,E139,E187,E202
37	37	1616653-01		DELAY= 100NS,10TAPS WITH TTLBU		2		E9,E45,E60,E105,E130,E154,E157, E186,E201
38	38	1619248-00		DELAY= 25/74NS ECL MULTI-LOGIC		1		CONT E44,E91,E118,E190,E198
39	39	1811660-00		OSCILLATOR, XTAL 20.000 MHZ		1		E7,E119,E218
40	40	1910532-80		74S00 BURNED-IN NAND GATE-		5		E46,E47,E53,E131,E167,E169
41	41	1910534-80		74S04 BURNED-IN INVERTER G		9		E84,E156
								CONT E4,E5,E41,E116,E142,E146,E159, E170,E200,E233
42	42	1910536-80		74S10 BURNED-IN NAND GATE-		5		E141,E197
43	43	1910537-80		74S11 BURNED-IN AND GATE-T		3		E123
44	44	1910539-80		74S20 BURNED-IN NAND GATE-		6		E111
45	45	1910542-80		74S64 BURNED-IN A-O-I GATE		2		E72,E128,E135,E137,E216
46	46	1910544-80		74S74 BURNED-IN FF-D DUAL,		10		E16,E17,E55,E58
								CONT E38,E59
47	47	1910544-01		74S74-60GG-D DUAL,EDGE TRIG		2		E148,E194
48	48	1910545-80		74S112 BURNED-IN FF-JK DUAL		1		E207,E213,E225
49	49	1910547-80		74S153 BURNED-IN MUX 1 OF 4		1		E226,E229
50	50	1910548-80		74S157 BURNED-IN MUX 1 OF 2		5		E182,E184
51	51	1910549-80		74S158 BURNED-IN MUX 1 OF 2		4		E183,E185
52	52	1910550-80		74S174 BURNED-IN FF-D HEX		2		E224
53	53	1910957-80		74S175 BURNED-IN FF-D QUAD		2		E90,E113,E219
54	54	1911402-00		10105 OR/NOR GATE,2-3-2		3		E28
55	55	1911404-00		10107 XOR/NOR GATE,3-2IN		2		E191,E192
56	56	1911414-00		10124 TTL TO ECL TRNSLTR		2		E175
57	57	1911415-00		10125 ECL TO TTL TRNSLTR		2		E106,E176,E232
58	58	1911506-00		10173 MUX, QUAD 2-IN W/LAT		1		
59	59	1911573-80		74S280 BURNED-IN PARITY GEN		3		
60	60	1911641-80		74S257 BURNED-IN MUX,QUAD 2		1		
61	61	1911675-50		74S138 BURNED-IN DECODER/DE		2		
62	62	1911676-80		74S139 BURNED-IN DECODER-DU		1		
63	63	1911712-80		74S51 BURNED-IN AND/OR GAT		3		

I D I G I T A L				I T I T L E		I S E C T I O N A O F A		I S I Z E I C O D E I		D O C U M E N T N U M B E R		I R E V	
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				NIA						L0072-1-DBP			

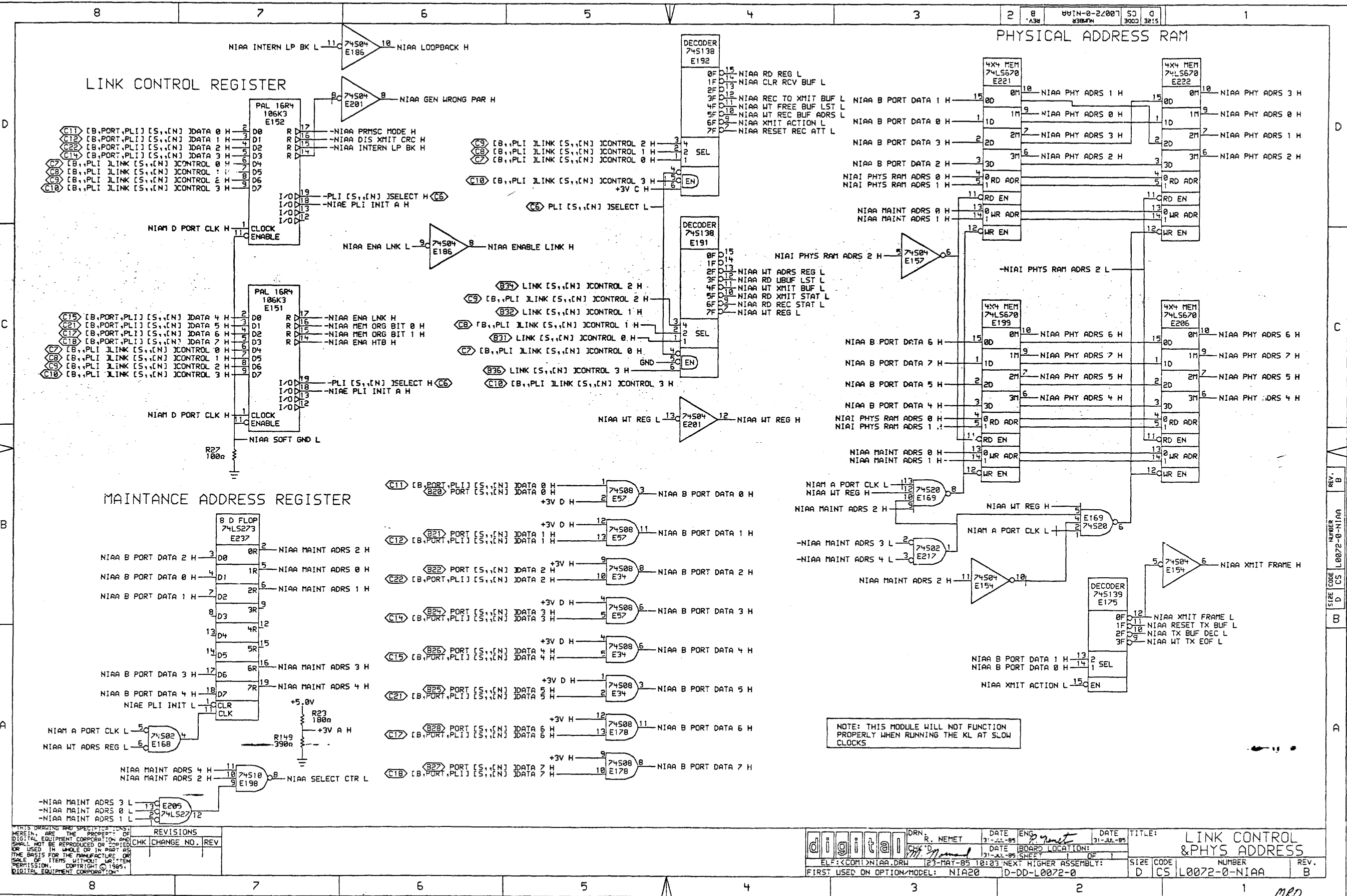
LINE ITEM		TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
						00		
VARIATION REVISION LEVEL:						A2		
64	64		1911983-80		74S133	BURNED-IN NAND GATE-	2	E8,E51
65	65		1912096-80		74S86	BURNED-IN XOR GATE,Q	1	E94
66	66		1912388-80		74S02	BURNED-IN NOR GATE-Q	7	E21,E80,E82,E102,E168,E188,E217
67	67		1912389-80		74S08	BURNED-IN AND GATE,Q	4	E34,E57,E63,E178
68	68		1912656-80		LS670	BURNED-IN REGISTER F	4	E199,E206,E221,E222
69	69		1912660-80		74S253	BURNED-IN MUX 1 OF 4	4	E104,E125,E164,E165
70	70		1912746-80		74S37	BURNED-IN NAND GATE-	4	E3,E100,E150,E203
71	71		1912799-80		LS00	BURNED-IN NAND GATE-	1	E138
72	72		1912801-80		LS02	BURNED-IN NOR GATE-Q	3	E39,E162,E163
73	73		1912805-80		LS08	BURNED-IN AND GATE-Q	3	E86,E181,E196
74	74		1912813-80		LS27	BURNED-IN NOR GATE-T	1	E205
75	75		1912824-80		LS74	BURNED-IN FF-D DUAL-	1	E204
76	76		1912833-00		LS109	FF-JK DUAL,POS EDGE	1	E136
77	77		1912834-80		LS112	BURNED-IN FF-JK DUAL	5	E103,E120-E122,E124
78	78		1912849-80		LS161	BURNED-IN COUNTER,SY	9	E1,E10-E13,E29,E40,E147,E220
79	79		1912851-80		LS169	BURNED-IN COUNTER,SY	4	E107-E109,E117
80	80		1912853-80		LS175	BURNED-IN FF-D,QUAD	2	E83,E101
81	81		1912863-80		LS273	BURNED-IN FF-D,OCTAL	1	E237
82	82		1913009-00		4N36	OPTO COUPLED ISLTR	1	E180
83	83		1913220-00		10216	RECEIVER, TRIPLE LIN	2	E223,E227
84	84		1913294-80		93S16	BURNED-IN COUNTER,SY	10	E2,E15,E18-E20,E35,E37,E54,E56,E74
CONT								
85	85		1913340-80		74S32	BURNED-IN OR GATE,QU	1	E193
86	86		1913493-80		74S241	BURNED-IN OCTAL BUFF	2	E140,E160
87	87		1913671-80		74S374	BURNED-IN FF-D OCTAL	3	E36,E93,E235
88	88		1913671-50		74S374	FF-D,OCTAL,TRI STATE	4	E61,E62,E85,E88
89	89		1913888-00	DC	102A	EQUALS CHECKER 8BIT	1	E236
90	90		1914084-00		74S299	SHIFT REG.,8BIT RIGH	3	E25,E153,E234
91	91		1914085-80		74S260	BURNED-IN NOR GATE,D	4	E14,E52,E70,E129
92	92		1914156-00	LM	393	VOLT.COMPARATOR DUAL	1	E179
93	93		1914768-00	C	67401J	MEMORY FIFO,SERIAL	6	E110,E114,E115,E127,E149,E156
94	94		1914845-00		2918	FF-D QUAD TRI-STATE	6	E132-E134,E172-E174
95	95		1914866-00	AM	93S48PC	GEN/CHECK PARITY, 48	1	E6
96	96		1917244-80		74S169	BURNED-IN COUNTER,SY	3	E48-E50
97	97		1918353-00		10231	FF-D, MASTER-SLAVE,	5	E208-E210,E212,E214
98	98		2116957-13			1KX4 MOS RAM 55NS	6	E64-E69
99	99		2118054-04			16K MOS RAM STATIC	10	E75-E79,E95-E99
100	100		23058K4-00	K4-01			1	E81
101	101		23059K4-00	K4-01			1	E22
102	102		23060K4-00	K4-01			1	E23
103	103		23071K5-00	K5-01			2	E32,E73
104	104		23072K5-00	K5-01			2	E31,E89
105	105		23082K5-00	K5-01			1	E26
106	106		23083K5-00	K5-01			1	E27
107	107		23084K5-00	K5-01			1	E30
108	108		23085K5-00	K5-01			1	E158
109	109		23086K5-00	K5-01			1	E145
110	110		23106K3-00	K3-01		PAL,REG	2	E151,E152

!	!						!TITLE	!	!			!	!SIZE!	!CODE!	!DOCUMENT NUMBER	!	!REV	!
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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	VARIATION REVISION LEVEL:		QTY PER VARIATION	REFERENCE DESIGNATOR
						00	A2		
111	111		23107K3-00	K3-01	PAL,REG	1		1	E143
112	112		23112K3-00	K3-01	PAL,REG	1		1	E24
113	113		23113K3-00	K3-01	PAL,REG	1		1	E144
114	114		23167J5-00	J5-01	PAL,LOGIC	1		1	E92
115	115	D-IA-7019209-0-0	7019209-00		BUSBAR ASSY (1.4 CTRS)	1		1	W1
116	116		9000024-01		EYELET,ROLLED 0.1210DX0.192	12			
117	117		23384A1-00	A1-07		1		1	E71
118	118		23365A1-00	A1-09		1		1	E171
119	119		9010213-01		SPACER,DUAL IN-LINE NYLN .450	1			

- 120 NOTE: 1. SPARE COMPONENT LOCATIONS ARE: E33,E42,E87,E126,E155,E189,E215,
121 NOTE: E231,E239
122 NOTE: 2. ITEM #119 PART #9010213-01 USED UNDER ITEM #39 PART #1811660-00

DIGITAL				TITLE		SECTION A OF A		SIZE	CODE	DOCUMENT NUMBER	REV
				L0072							
				NIA				K	PL	L0072-1-DBP	A

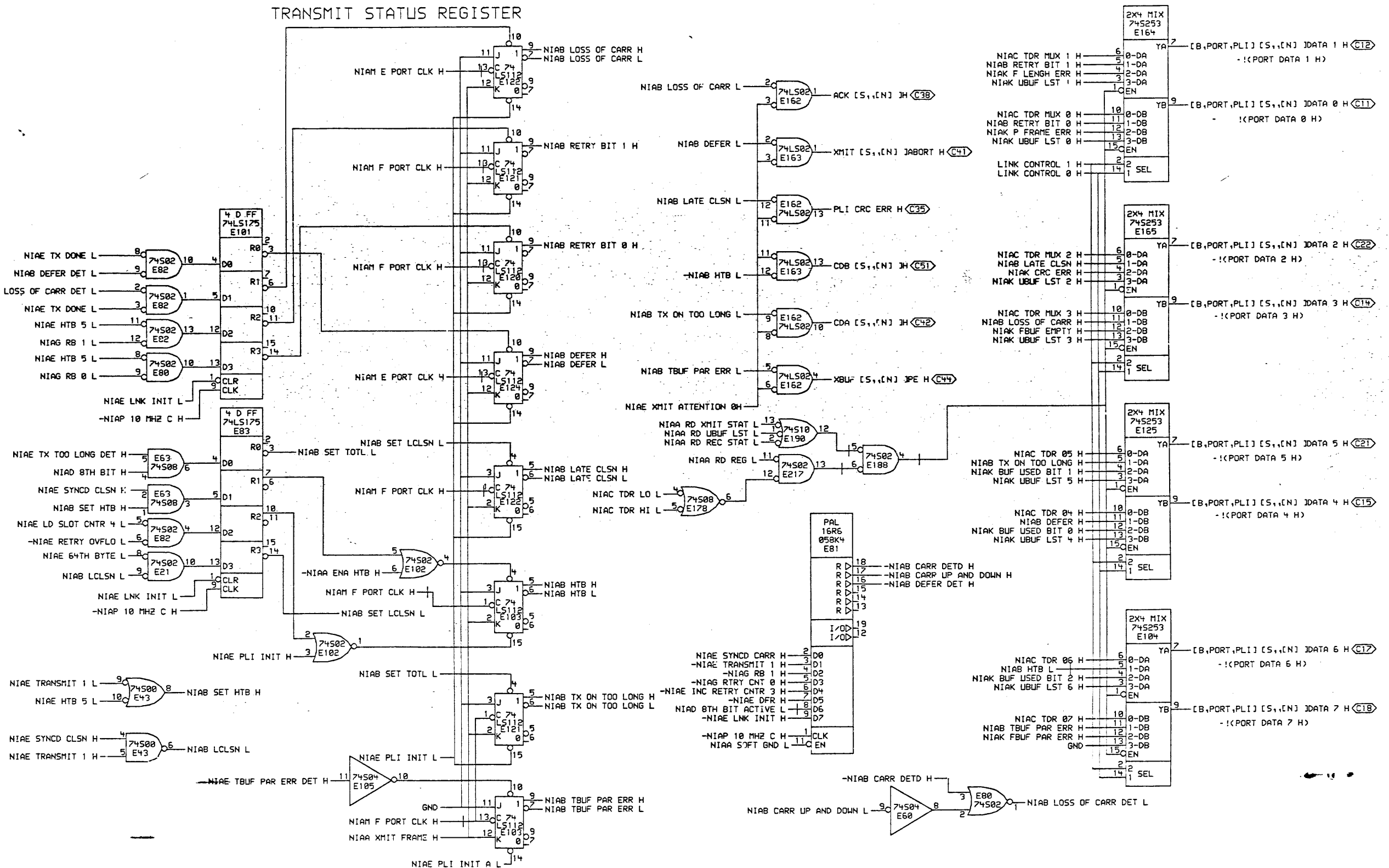


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REVISIONS			DATE		DATE		TITLE	
CHK	CHANGE NO.	REV	31-JUL-85		31-JUL-85		LINK CONTROL & PHYS ADDRESS	
			DATE		DATE		NUMBER	
			31-JUL-85		31-JUL-85		1 OF 1	
			DATE		DATE		REV.	
			31-JUL-85		31-JUL-85		B	
			DATE		DATE		NUMBER	
			31-JUL-85		31-JUL-85		1 OF 1	
			DATE		DATE		REV.	
			31-JUL-85		31-JUL-85		B	

digital	DRN. R. NEMET	DATE 31-JUL-85	ENG. J. NEMET	DATE 31-JUL-85	TITLE: LINK CONTROL & PHYS ADDRESS
CHK'D. J. NEMET	DATE 31-JUL-85	BOARD LOCATION: 1	OF 1	SIZE CODE	NUMBER
ELF: <COM>NIAA.DRW	23-MAY-85 10:03	NEXT HIGHER ASSEMBLY:	SIZE CODE	NUMBER	REV.
FIRST USED ON OPTION/MODEL: NIA20	10-DD-L0072-0		D	CS	L0072-0-NIAA

TRANSMIT STATUS REGISTER



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REVISIONS		
CHK	CHANGE NO.	REV

digital
ELF:<COM1>NIAB.DR
FIRST USED ON OPTION

DRN	DATE	ENG.	DATE
R. NEMET	31-JUL-85	R. Nemet	31-JUL-85
CHK'D	DATE	BOARD LOCATION:	
10-03	10-03	SHEET 1 OF 1	
NEXT HIGHER ASSEMBLY:			
MODEL: NIA20		D-DD-L0072-0	

TITLE: XMIT STATUS & PLI MUX			
SIZE	CODE	NUMBER	REV.
D	CS	L0072-0-NIAB	B

MRO

RANDOM NUMBER GENERATOR/RETRY COUNTER

FORCE COLLISION REGISTER

NIAJ SYNC TRANSMIT 1 H
 TRUF DATA 0 H
 TRUF DATA 1 H
 TRUF DATA 2 H

C7 [B,PLI] LINK [S,EN] CONTROL 0 H
 B31 LINK [S,EN] CONTROL 0 H
 C8 [B,PLI] LINK [S,EN] CONTROL 1 H
 B32 LINK [S,EN] CONTROL 1 H
 C9 [B,PLI] LINK [S,EN] CONTROL 2 H
 B34 LINK [S,EN] CONTROL 2 H
 C10 [B,PLI] LINK [S,EN] CONTROL 3 H
 B36 LINK [S,EN] CONTROL 3 H

C6 [B,PLI] LINK [S,EN] SELECT L
 NIAA SELECT CTR L
 PORT DATA 0 H
 PORT DATA 1 H
 NIAM B PORT CLK H

NIAJ RV 4 L
 NIAJ RV 5 L
 NIAJ RV 3 L
 NIAJ RV 2 L
 NIAJ RV 0 L
 NIAJ RV 8 L
 NIAJ RV 7 L
 NIAJ RV 1 L
 NIAJ RV 9 L

NIAJ RTRY CNT 3 L
 NIAJ RTRY CNT 2 L
 NIAJ RTRY CNT 1 L
 NIAJ RTRY CNT 0 L
 NIAJ RV 5 L

NIAJ FORCE CLSN H

NIAJ RV 1 L

NIAJ RV 9 L
 NIAJ RV 6 L
 NIAE LNK INIT L
 NIAE ST XMIT H
 NIAE INC RETRY CNTR 3 L
 NIAE PRESET PRNG L

NIAP 10 MHZ F L

R32 100n

NIAE ST XMIT H
 NIAE LD SLOT CNTR 4 L

BIN CTR 74LS161 E11

BIN CTR 74LS161 E29

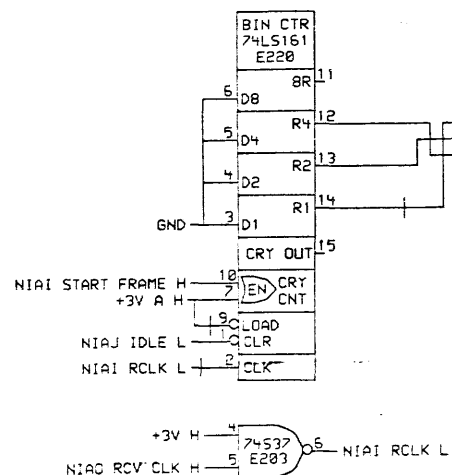
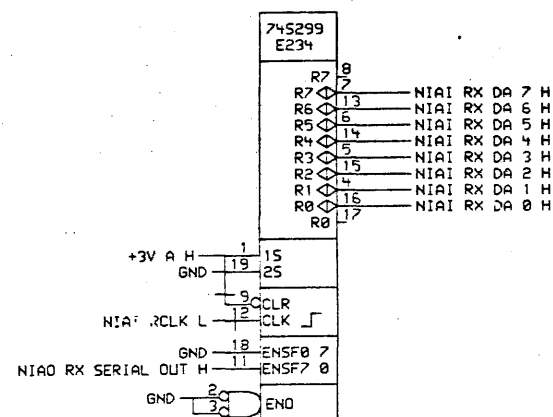
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SLOT TIMER

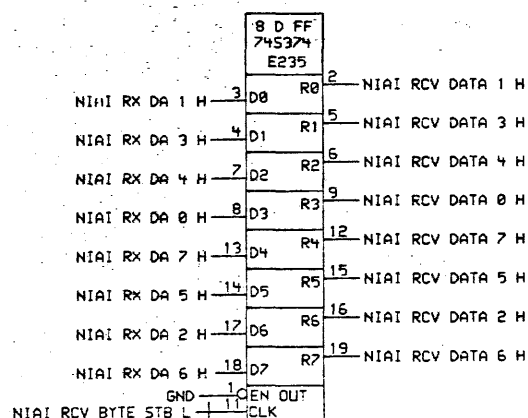
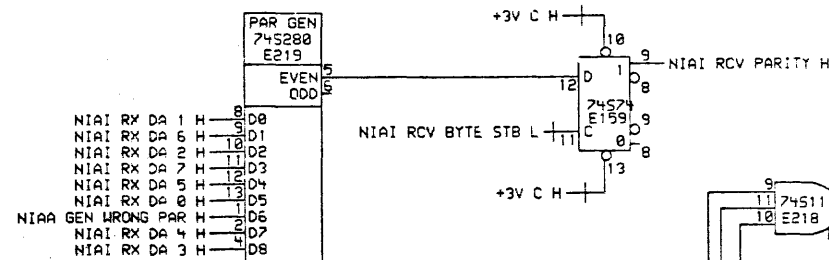
BIN CTR 74LS161 E13

digital DRN R. NEMET		DATE 31-JUL-85 DATE 31-JUL-85	ENG. K. Nemet DATE 31-JUL-85	TITLE: RETRY LOGIC
ELF: COM1 NIAJ.DRW 129 MAY-85 10:48		NEXT HIGHER ASSEMBLY:		SIZE CODE NUMBER REV. D CS L0072-2-NIAJ B
FIRST USED ON OPTION/MODEL: NIA20		D-DD-L0072-0		MRO

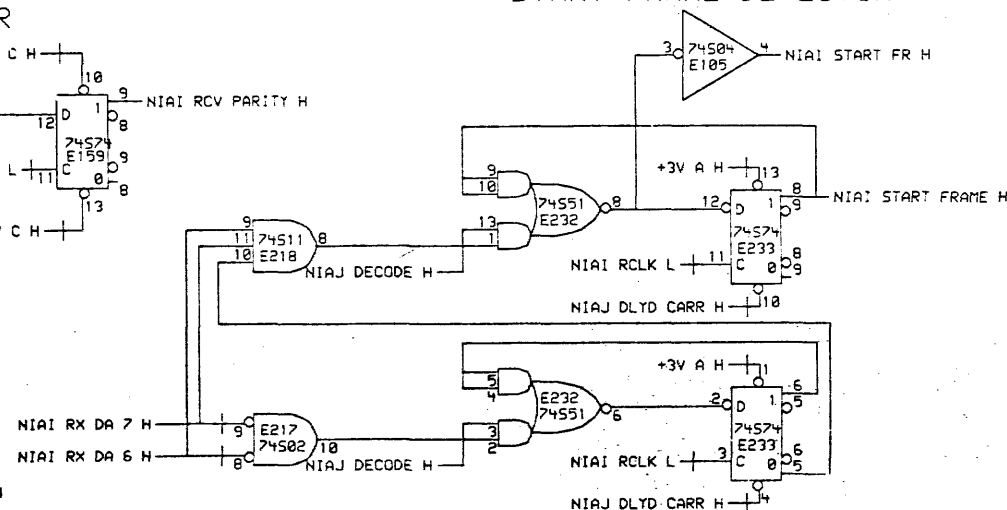
RECEIVE DESERIALIZER



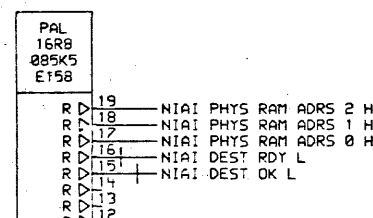
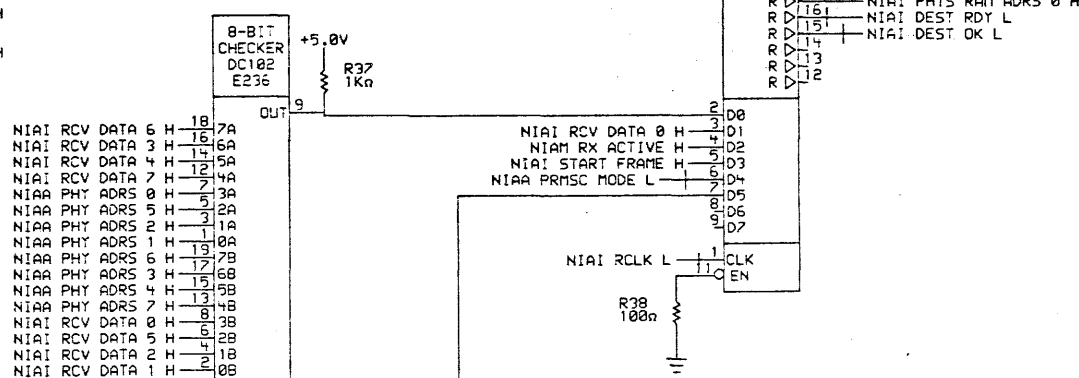
RECEIVER PARITY GENERATOR



START FRAME DETECTOR



RECEIVE ADDRESS COMPARE



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REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

REV.	CHG.	NO.	REV.
1			

digital	DRN R. NEMET	DATE 31-JUL-85	ENG R. NEMET	DATE 31-JUL-85	TITLE: RX SHIFT FRAMING & ADDRESS COMPARE
ELF:CCOM1NIAI.DRW	123 MAY-85 10:56	NEXT: HIGHER ASSEMBLY:	SIZE CODE D CS	NUMBER L0072-0-NIAI	REV. B
FIRST USED ON OPTION/MODEL: NIA20	D-00-L0272-0				

mro

D

C

B

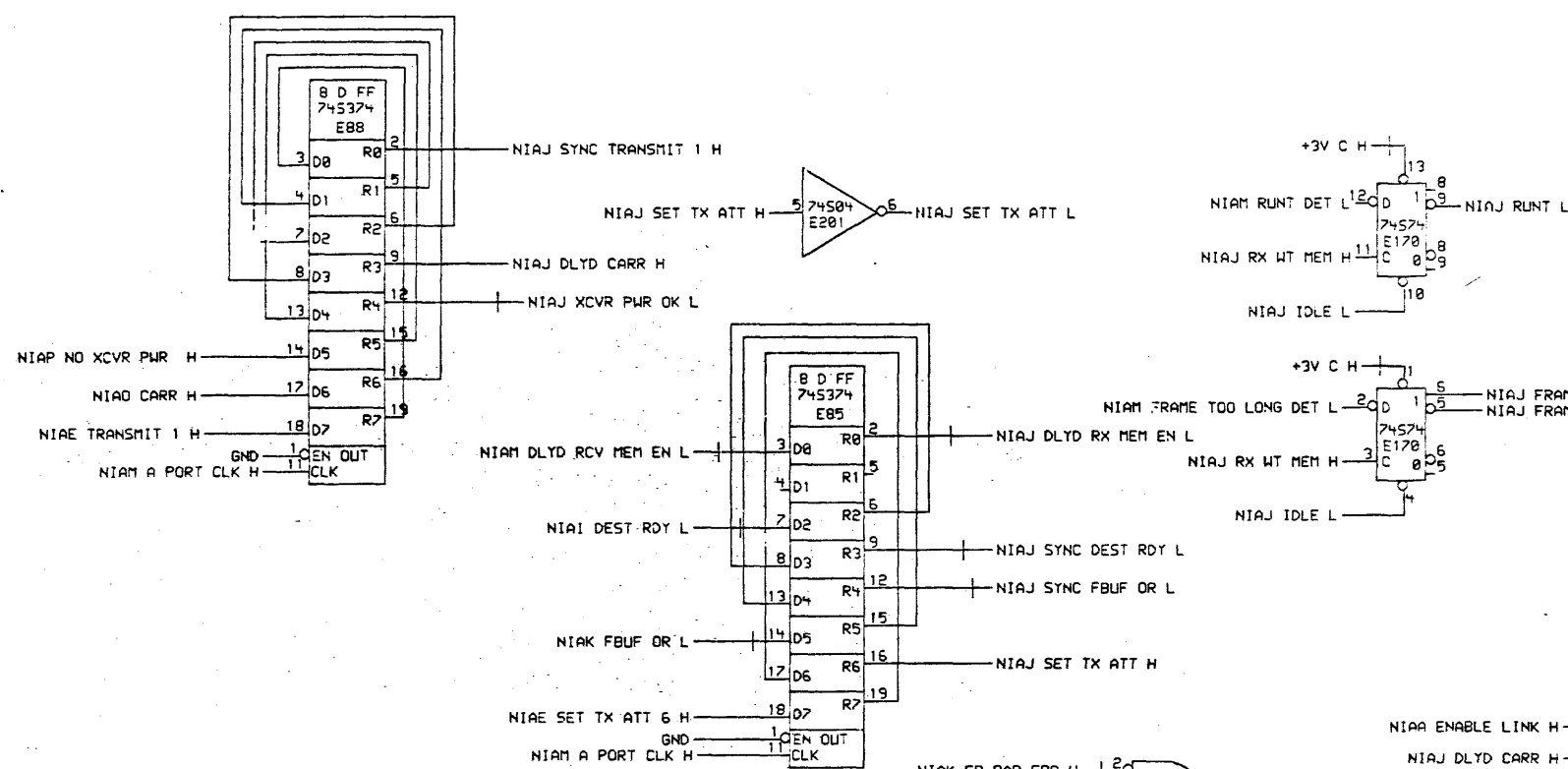
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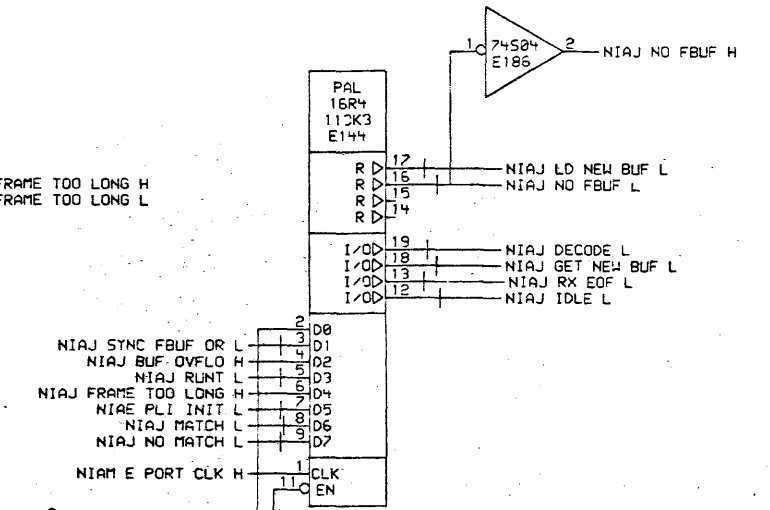
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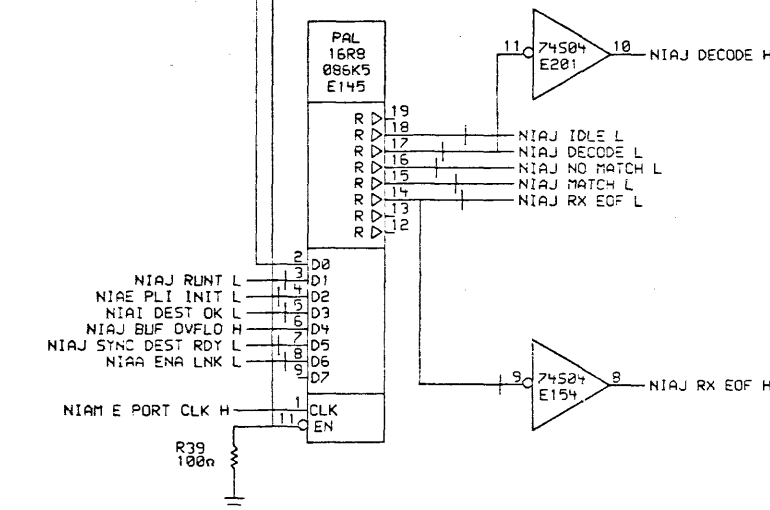
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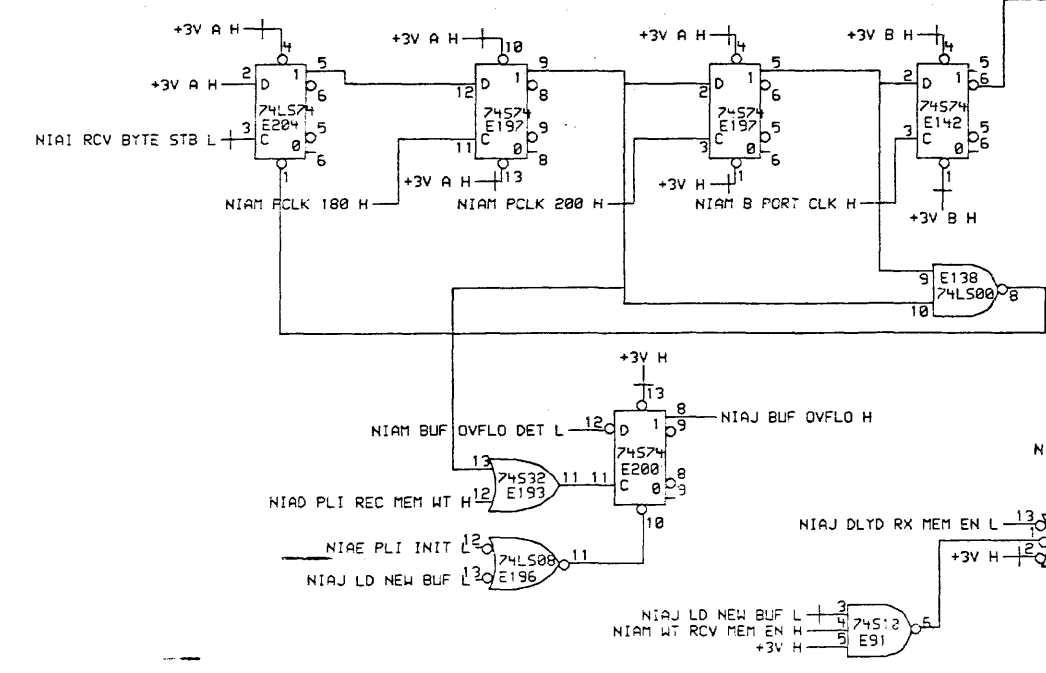
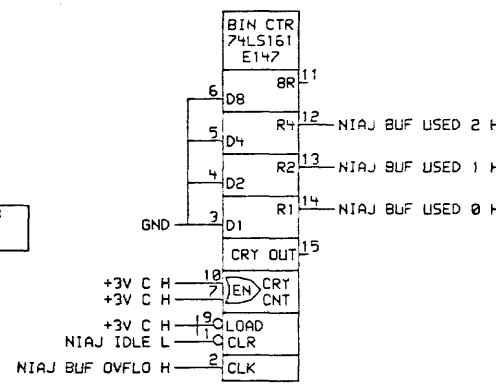
RECEIVE MEMORY STATE MACHINE



RECEIVE STATE MACHINE



USED BUFFER COUNTER



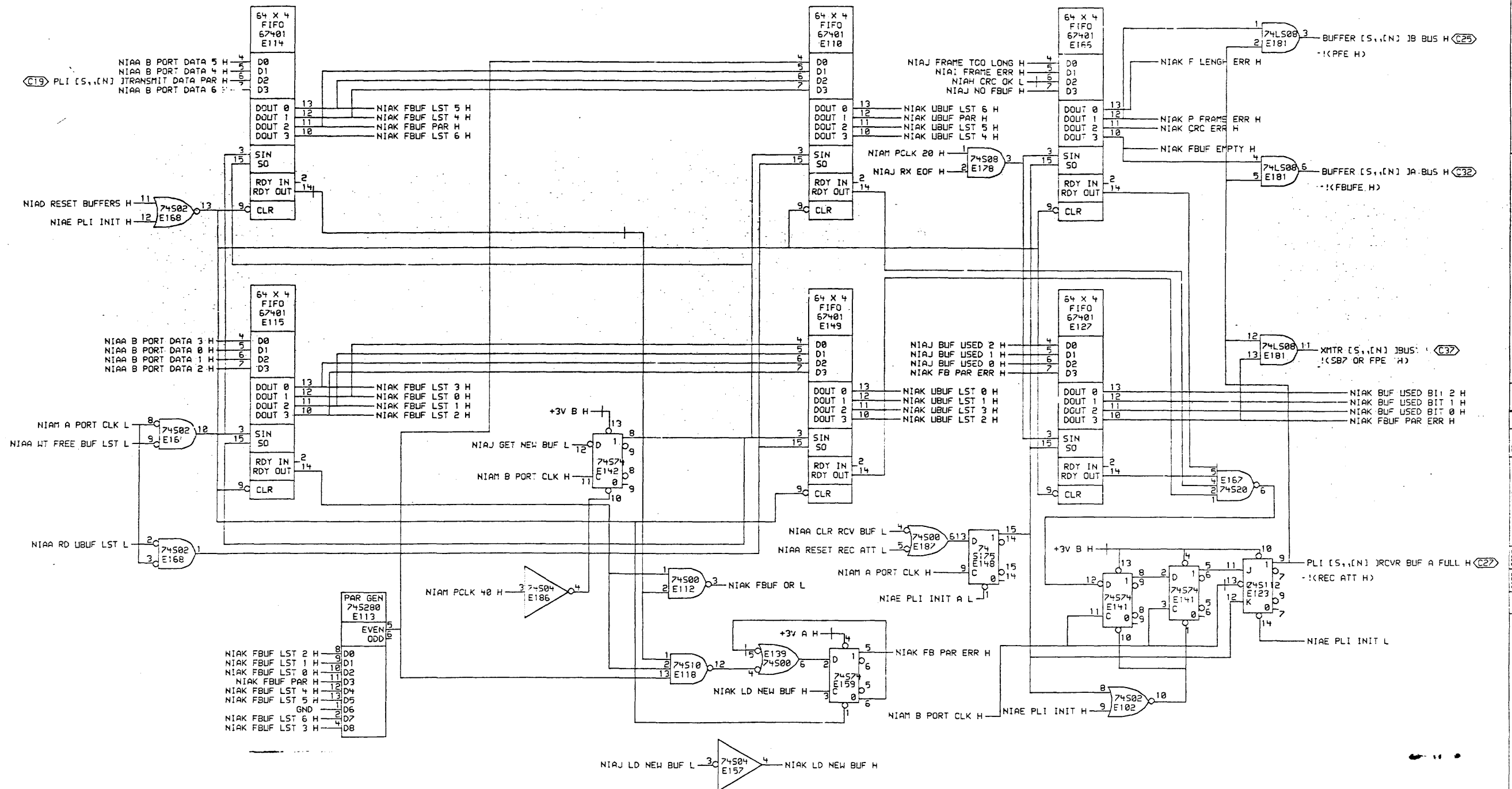
REVISIONS	
CHK	CHANGE NO. REV

DATE	ENG.	DATE	TITLE:
31-JUL-85	10/10	31-JUL-85	REC & RX MEM CONTROL LOGIC
DATE	BOARD LOCATION:	DATE	BOARD LOCATION:
31-JUL-85	5-RET	31-JUL-85	5-RET
FILE: <COM1>NIAJ.DRW	23-MAY-85	NEXT HIGHER ASSEMBLY:	SIZE CODE NUMBER REV.
FIRST USED ON OPTION/MODEL:	NIA20	D-DD-L0072-0	D CS L0072-0-NIAJ B

FREE BUFFER LIST

USED BUFFER LIST

RECEIVE STATUS FIFO

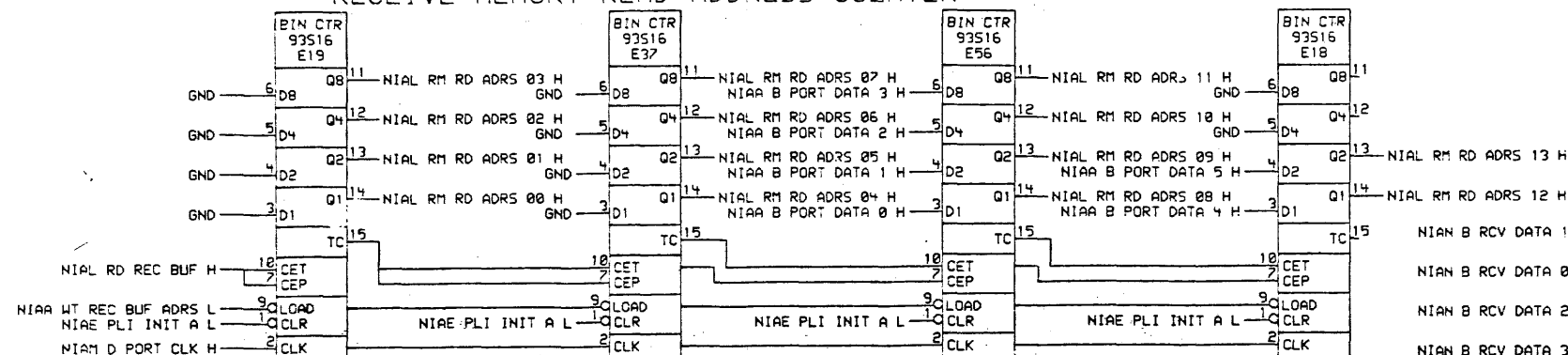


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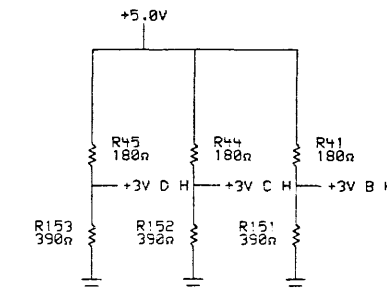
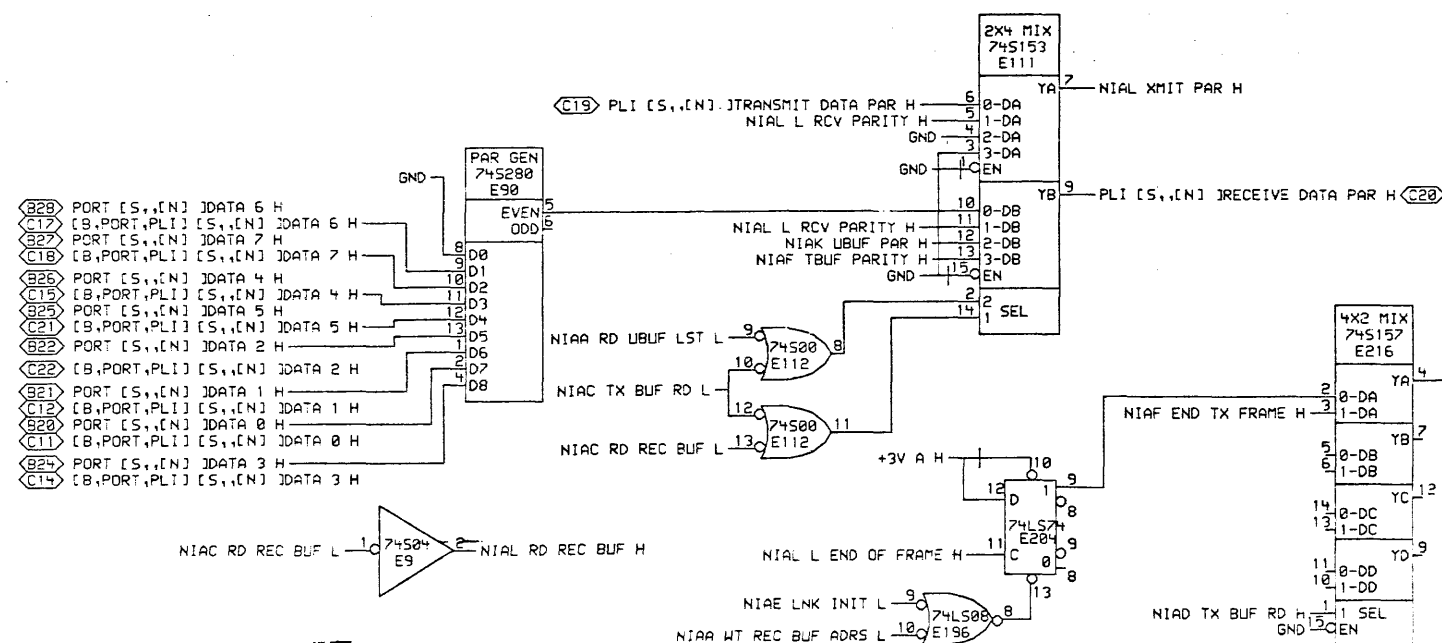
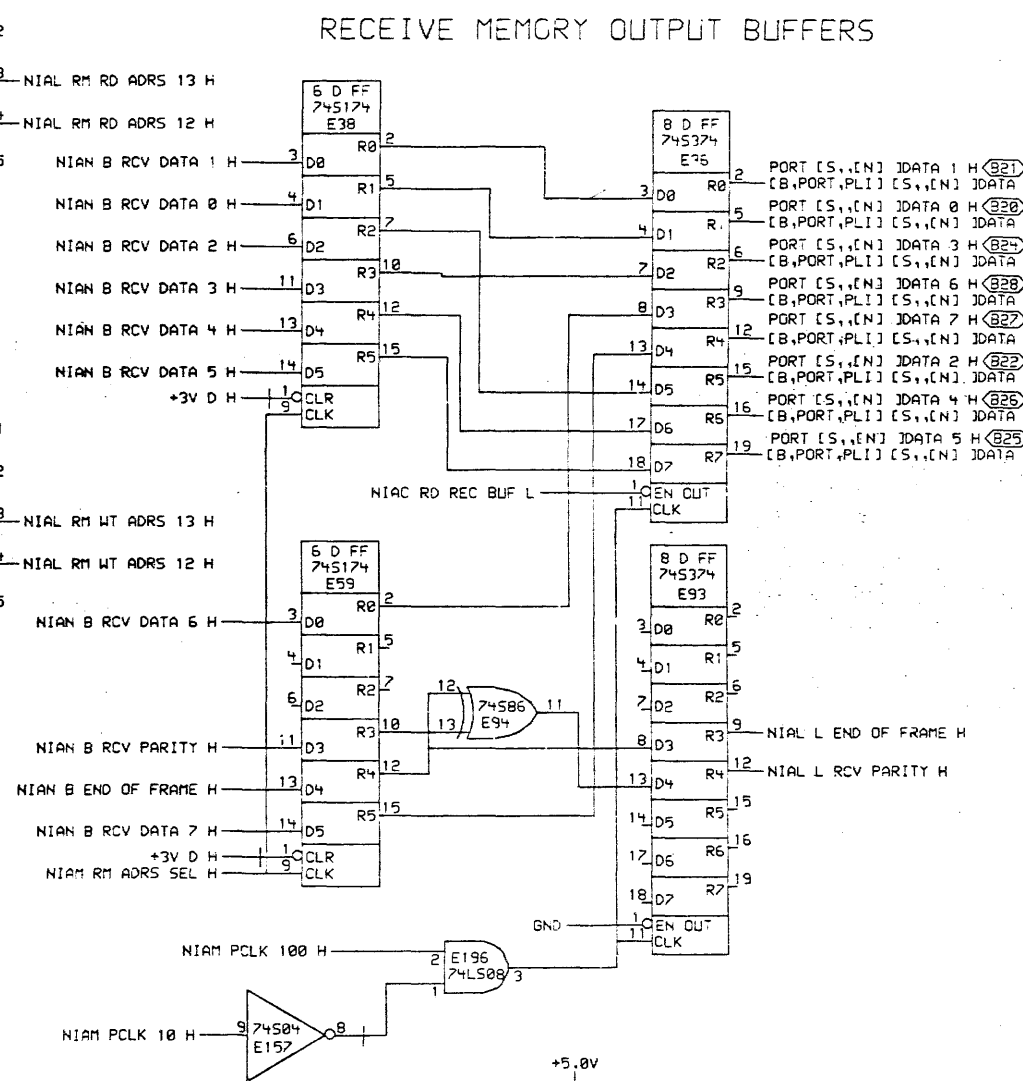
REVISIONS
CHK CHANGE NO. REV

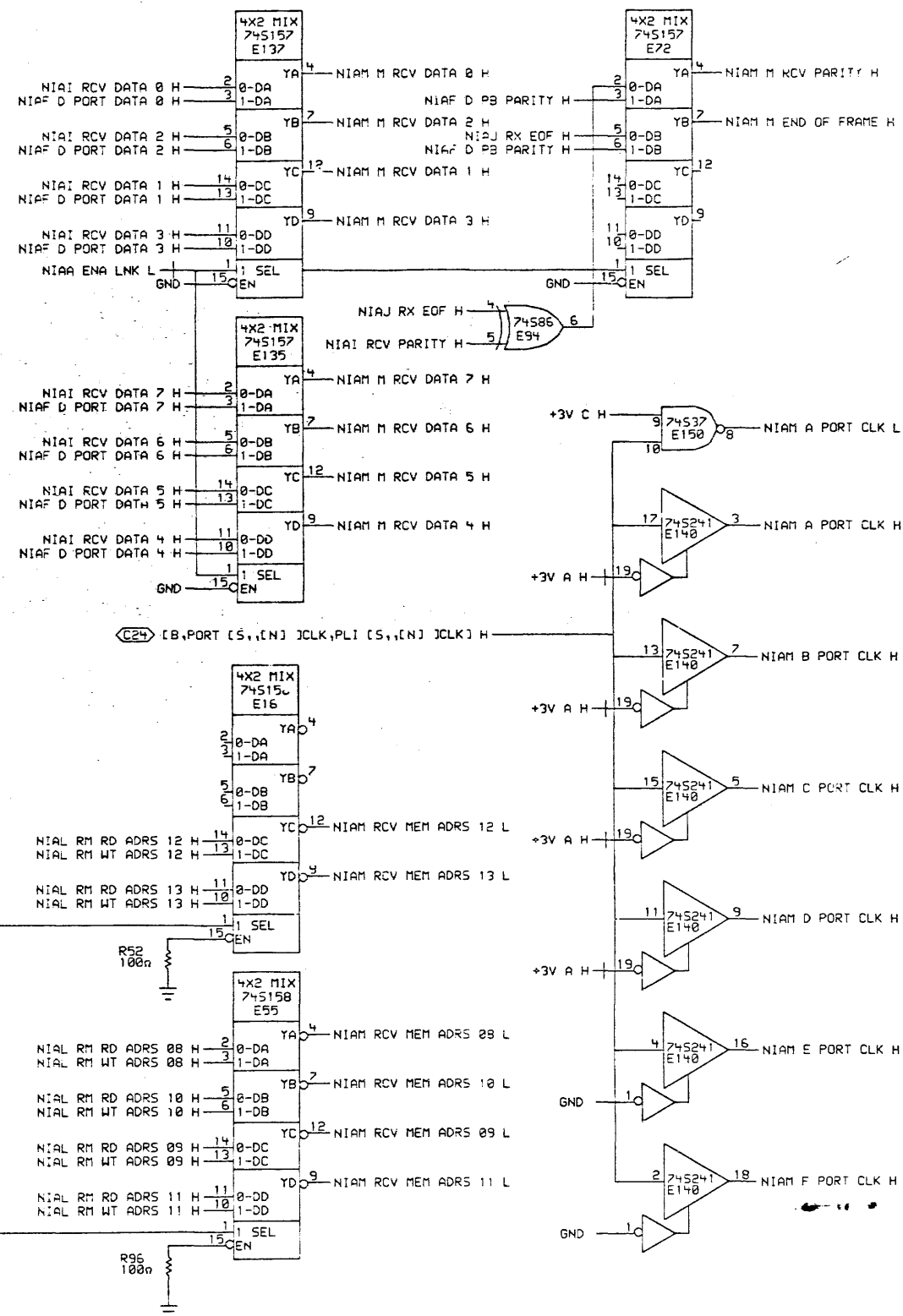
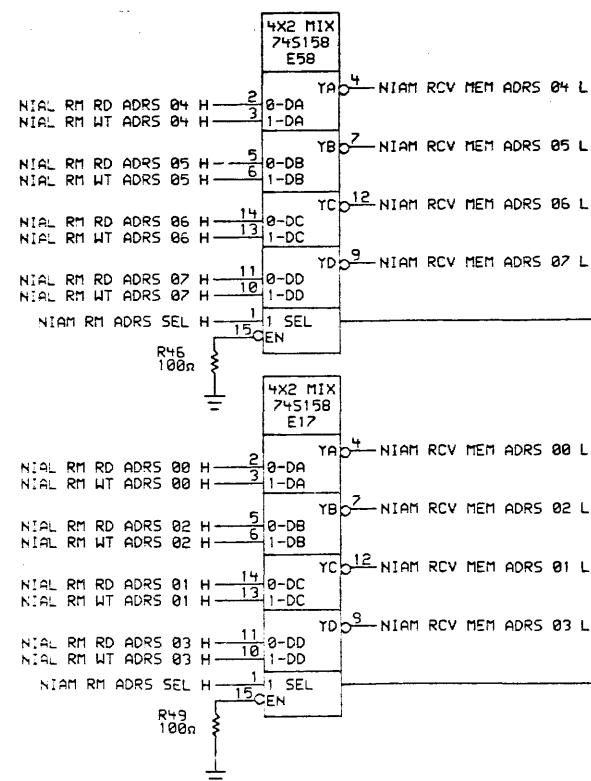
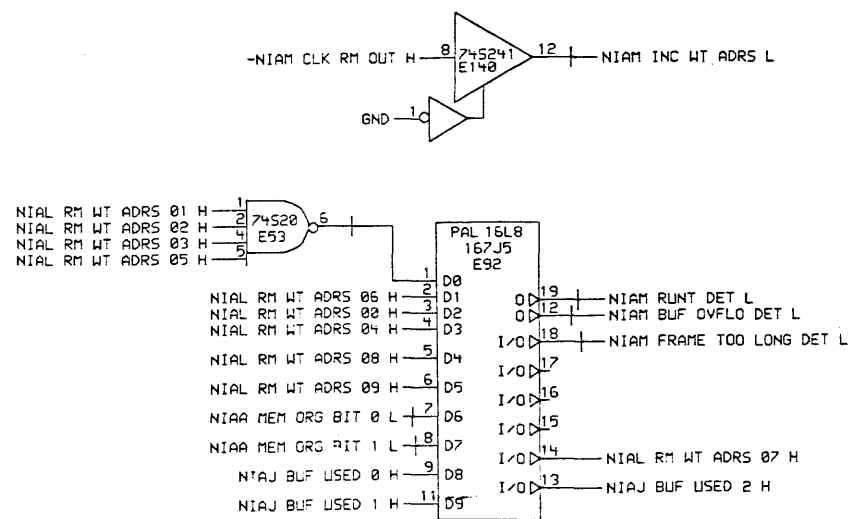
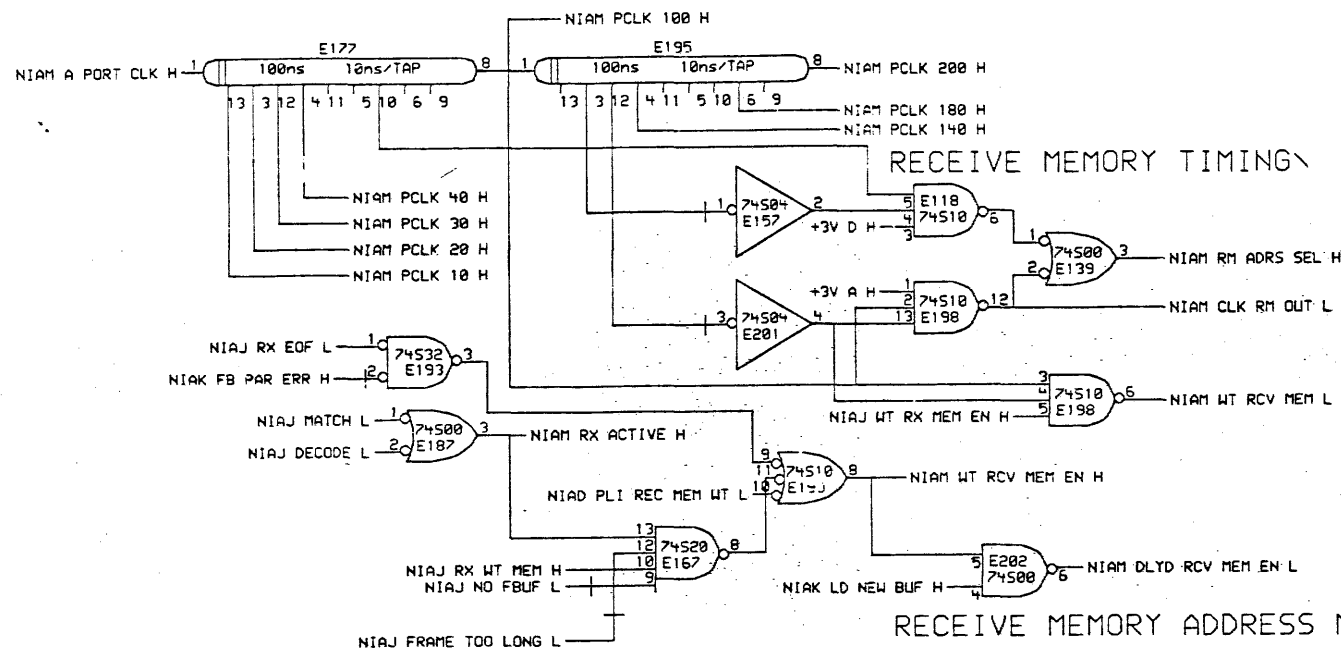
digital DRN. R. NEMET DATE 31-JUL-85 ENG. R. NEMET DATE 31-JUL-85 TITLE: RCV STAT & FREE USED BUF LISTS
DATE 13-JUL-85 SHEET 1 OF 1
ELF:KCOM\NIAK.DRW 23-MAY-85 10:56 NEXT HIGHER ASSEMBLY:
FIRST USED ON OPTION/MODEL: NIA20 D-DD-L0072-0
SIZE CODE NUMBER REV.
D C5 L0072-0-NIAK B

MD

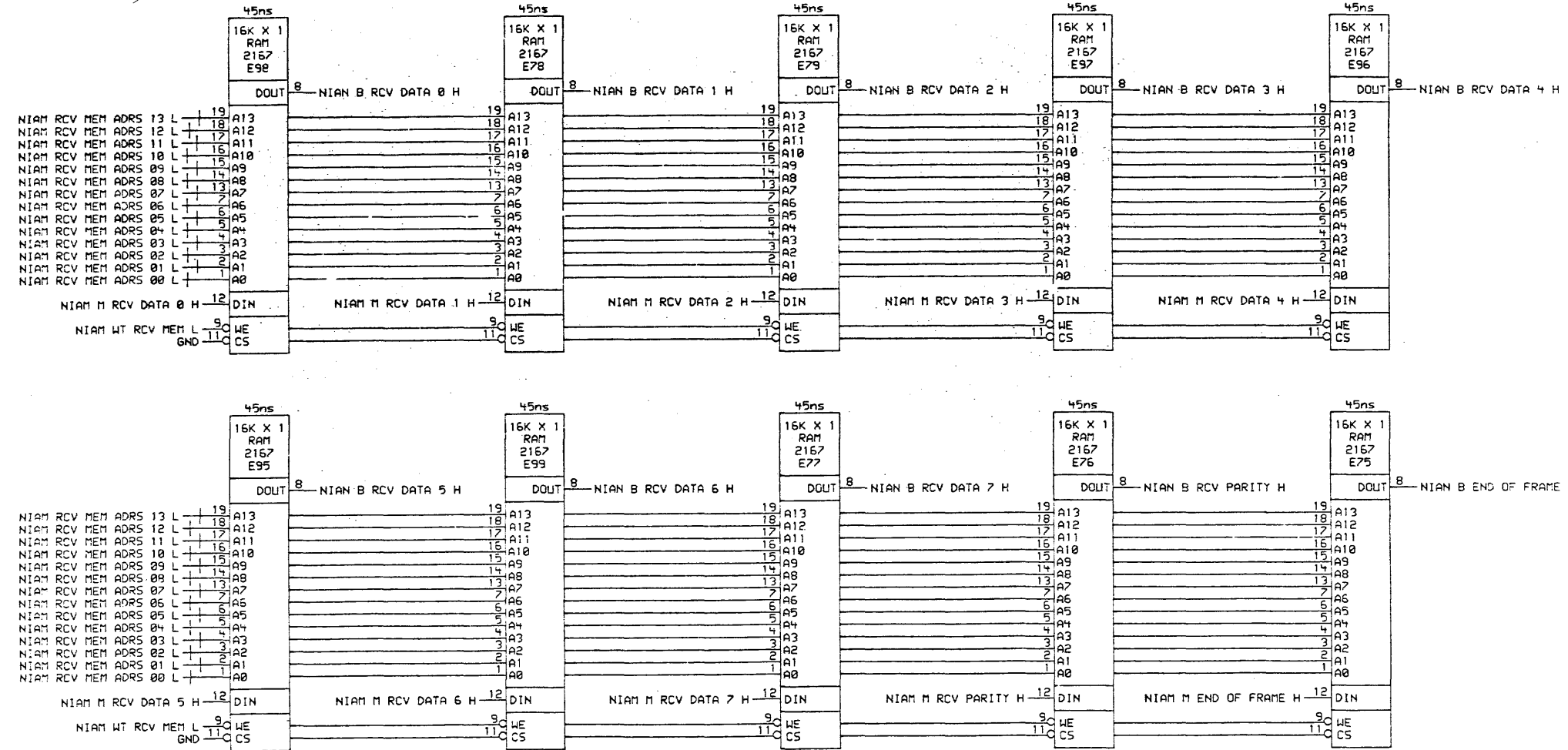


RECEIVE MEMORY WRITE ADDRESS COUNTER





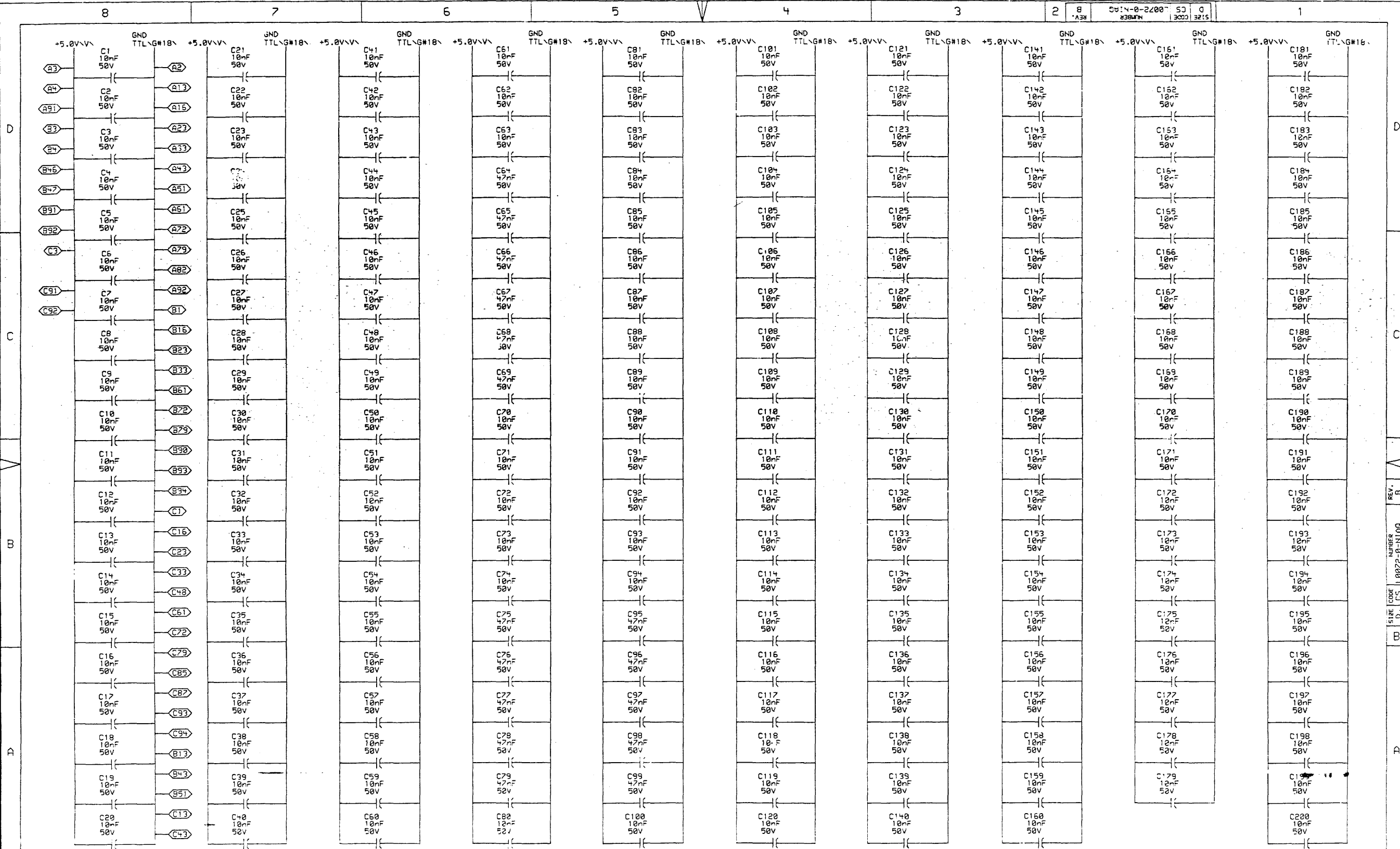
RECEIVE MEMORY BUFFER



REVISIONS	
CHK	CHANGE NO. / REV.

digital	DRN R. NEMET	DATE 31-JUL-95	ENG R. NEMET	DATE 31-JUL-95	TITLE: RECEIVE MEMORY
CHK: [Signature]		DATE 31-JUL-95		BOARD LOCATION: [Blank]	
ELF: CCM1NIAM.DRW		23-MAY-85 10:58		NEXT HIG-ER ASSEMBLY: [Blank]	
FIRST USED ON OPTION/MODEL: NIA20		D-DD-L0072-0		SIZE CODE D CS	
				NUMBER L0072-0-NIAM	
				REV. B	

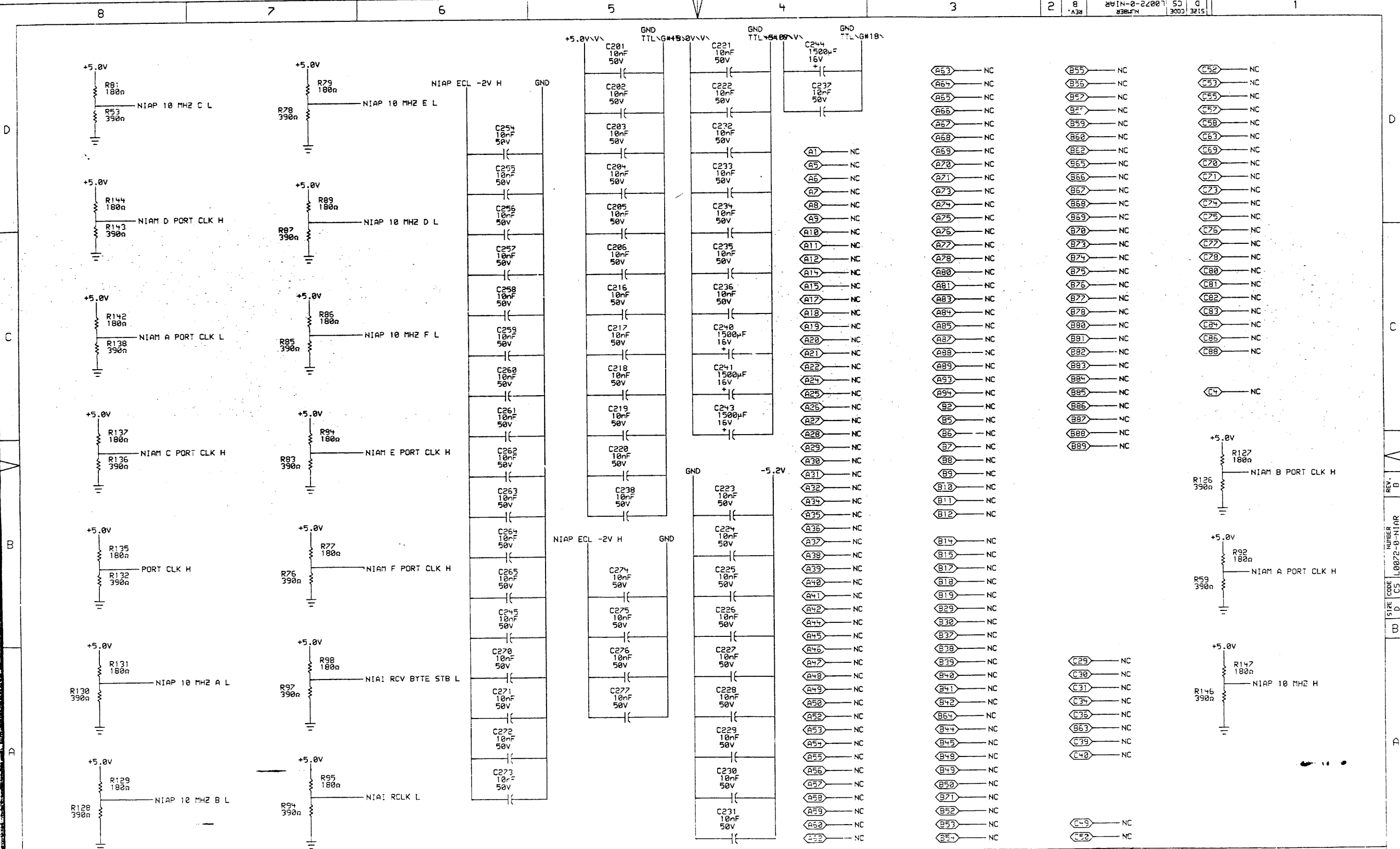
meo

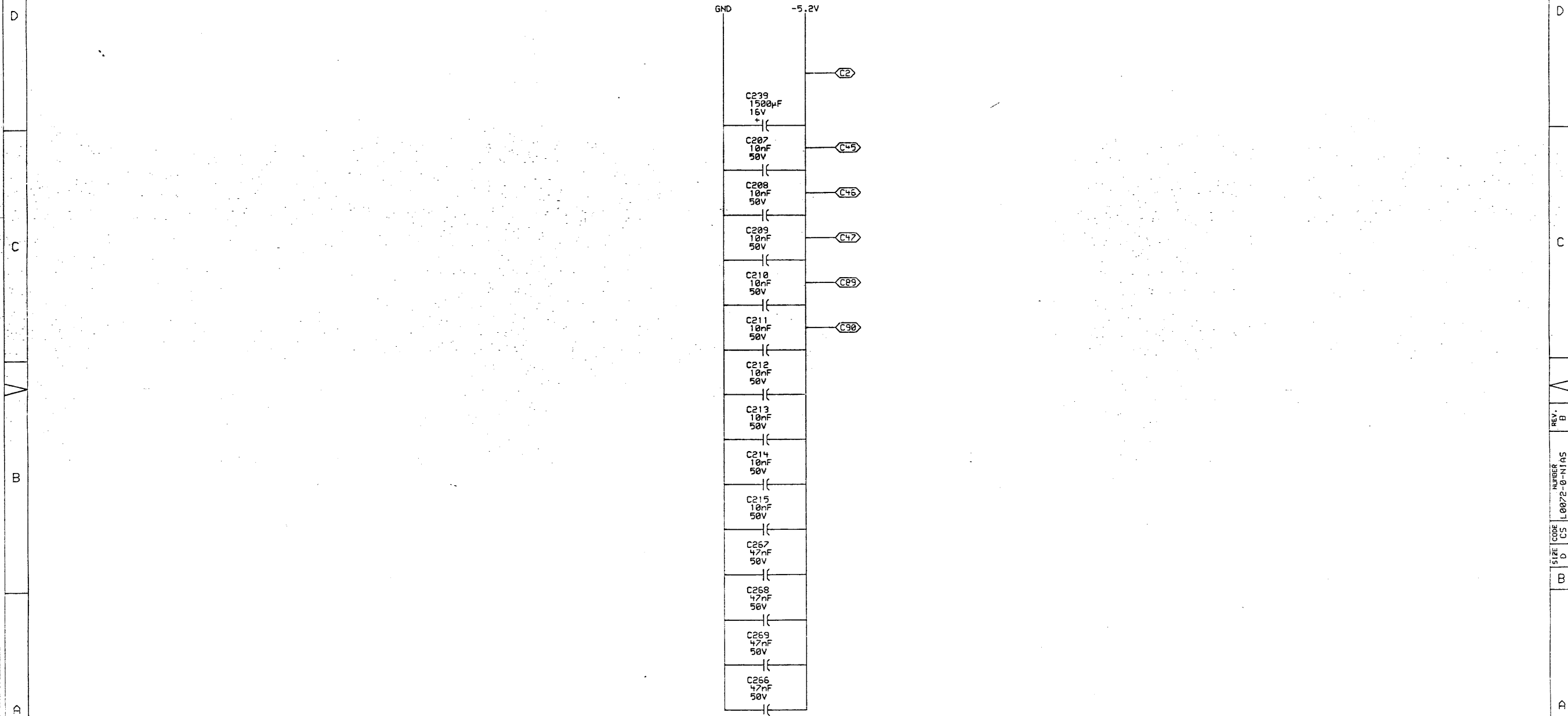


REVISIONS		DATE		ENG.		TITLE	
CHK	CHANGE NO. REV.	31-JUL-85	31-JUL-85	31-JUL-85	31-JUL-85	CAPDRW 1 PWR & GND	
		DATE		DATE		REV.	
		31-JUL-85		31-JUL-85		B	
		SHEET		SHEET		NUMBER	
		1		1		L0072-0-NIAQ	
		FIRST USED ON OPTION/MODEL: NIA20		D-DD-L0272-0		REV.	
						B	

8 7 6 5 4 3 2 1

MRO

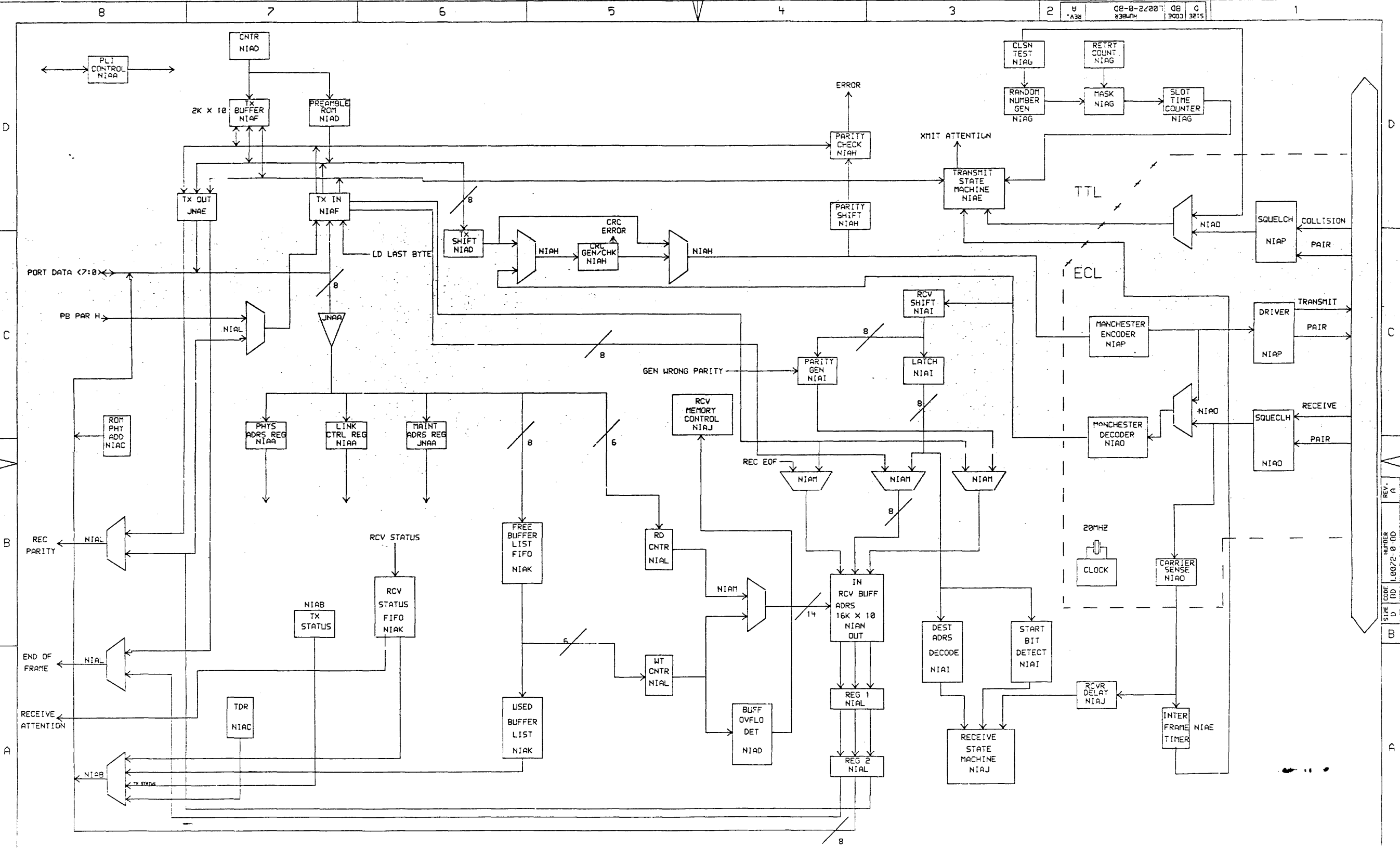




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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. R. NEMET	DATE ENG. 31-JUL-85	DATE 31-JUL-85	TITLE: -5.2V CAP
	CHK'D <i>mm</i>	DATE 31-JUL-85	DATE 31-JUL-85	DATE 31-JUL-85
FIRST USED ON OPTION/MODEL: NIA20				SIZE CODE D CS
NEXT HIGHER ASSEMBLY: D-DD-L0072-2				NUMBER L0072-0-NIAS
				REV. B



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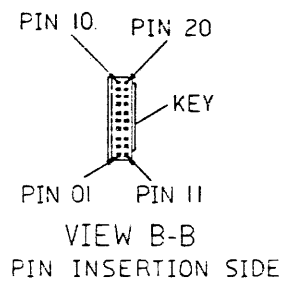
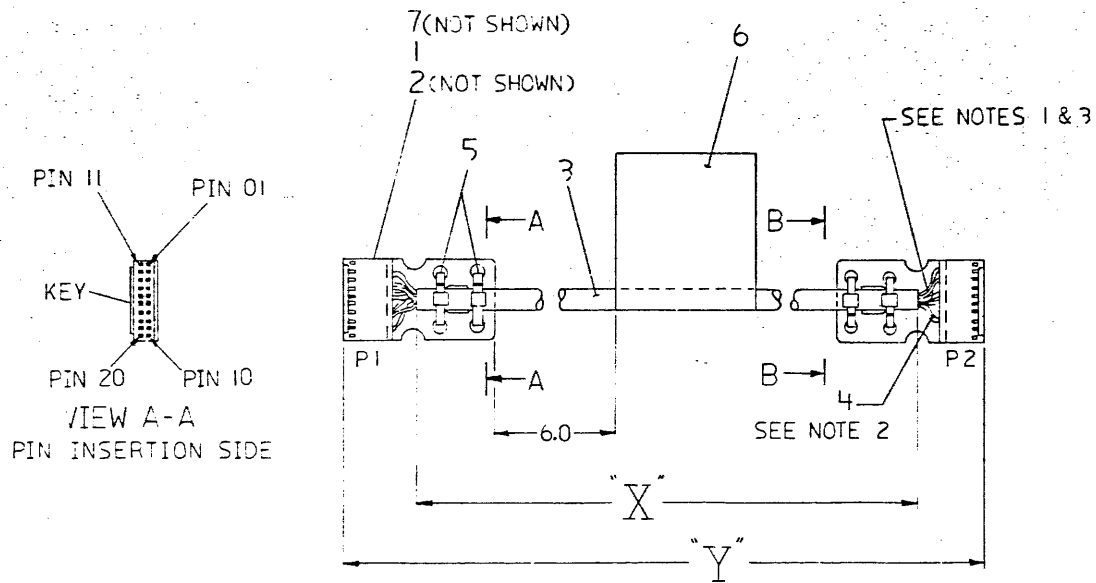
WIRE TABLE								
ITEM DESCRIPTION		FROM			TO			
NO	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH
24	SHLD	—	PI-11	—	4 & 2	—	P2-11	4 & 2
28	WHT	—	PI-2	—	7	—	P2-2	7
TWP	BLK	—	PI-3	—	7	—	P2-3	7
24	VIO	—	PI-15	—	2	—	P2-15	2
3	TWT	RED	PI-18	—	2	—	P2-18	2
	BLK	—	PI-19	—	2	—	P2-19	2
28	BLU	—	PI-5	—	7	—	P2-5	7
TWP	GRN	—	PI-6	—	7	—	P2-6	7
28	CRN	—	PI-8	—	7	—	P2-8	7
TWP	YEL	—	PI-9	—	7	—	P2-9	7

LEGEND				
PART NUMBER	DIM "X" VAR	DIM "Y" (PRECUT)	REF	REV
7019893-2L	2FT. 10IN. 10IN.	3FT. 0IN. 0IN.		AI
7019893-3L	3FT. 10IN. 21IN.	4FT. 0IN. 0IN.		AI
7019893-7L	5FT. 10IN. 11IN.	8FT. 0IN. 0IN.		AI

- NOTES
1. REMOVE OUTER JACKET AND SHIELD OF ITEM #3 .75 INCHES, BOTH ENDS.
 2. INSTALL ITEM #4 TO SHIELD DRAIN WIRE, BOTH ENDS, BEFORE ATTACHING ITEM #2.
 3. MAINTAINING THE INTEGRITY OF THE TWISTED WIRE PAIRS AS MUCH AS POSSIBLE, INSTALL ITEM #2 ON ALL LEADS, AND INSERT INTO CONNECTOR HOUSING (ITEM #1).
 4. ATTACH ITEM #5 BOTH ENDS.

C

B



NC = NO CONNECTION
T = TWISTED WIRE PAIR
T = TWISTED WIRE TRIPLET

PIN	CONN NO.	PI	CONN PIN NO.	P2
1	NC		1	
2	RECEIVE +		2	WHT
3	RECEIVE -		3	BLK
4	NC		4	
5	COLLISION PRESENCE +		5	BLU
6	COLLISION PRESENCE -		6	GRN
7	NC		7	
8	TRANSMIT +		8	CRN
9	TRANSMIT -		9	YEL
10	NC		10	
11	SHIELD		11	
12	NC		12	
13	NC		13	
14	NC		14	
15	DETECT H		15	VIO
16	NC		16	
17	NC		17	
18	POWER		18	RED
19	GROUND		19	BLK
20	NC		20	

CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7019893-0-08P

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 (CHECK ONE)	
X = ± .1		OVER 0 TO 0.2	
XX = ± .02		OVER 0.2 TO 1.2	
XXX = ± .005		OVER 1.2 TO 4.0	
		OVER 4.0 TO 12.0	
		OVER 12.0 TO 40.0	
		OVER 40.0 TO 60.0	
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	TITLE	
		digital	
DO NOT SCALE DRAWING	REMOVE BURRS AND BREAK SHARP CORNERS	CABLE ASSEMBLY	
MATERIAL	SEE PARTS LIST	ETHERNET	
FINISH		DOCUMENT NUMBER	
		DIA: 7019893-0-0	
		SCALE	
		SHEET	
		CF	

REVISION HISTORY
ECO NUMBER
DATE
RELEASED

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY PER VARIATION		
						2L	3L	7L
						VARIATION REVISION LEVEL:		
						A1	A1	A1
1	1		1214112-07	A	CONN,P+S 20POS(2X10).100CC HSG	2	2	2
2	2		1214113-00		CONN,P+S 01SKT 24-20AWG	8	8	8
3	3		1700347-01		CABLE,RND 09COND 28AWG TWP	A/R	A/R	A/R
4	4		9107278-11		TUBING,TEFLON .042ID	A/R	A/R	A/R
5	5		9007031-00		TIE,CABLE BUNDL.DIA 0- 3/4"=101	4	4	4
6	6		3616073-00		LABEL,ID W/COPY VERTICAL	1	1	1
7	7		1214293-00		CONN,P+S 01SKT 30-26AWG	12	12	12

REVISION HISTORY			BASIC PART NO: 7019893			D I G I T A L		
ENG	ECC NUMBER	REV	SECTION A OF A	DRN:	JOE DONAHER	DATE:	18 AUG 82	
---	INITIAL	A	SECTION.VARIATION INDEX	CHK'D:	JOE DONAHER	DATE:	12 APR 84	TITLE PARTS LIST
			[A]2L,3L,7L					CABLE ASSY, ETHERNET
			[B]	DES.ENG:	P CAPPABIANCA	DATE:	25-APR-84	DOCUMENT NUMBER
			[C]					SIZE!CODE! NUMBER
			[D]	RESP.ENG.:	P CAPPABIANCA	DATE:	25-APR-84	K ! PL ! 7019893-0-DBP
			[E]					
			[F]	MFG.ENG.:	J. MCCAFFREY	DATE:	17 MAY 84	RELEASE DATE: 12-JUN-84
				ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:
				D-IA-7019893-0-0		D-IA-7019893-0-0		Z5372A.PLS
								EDIT #
								6

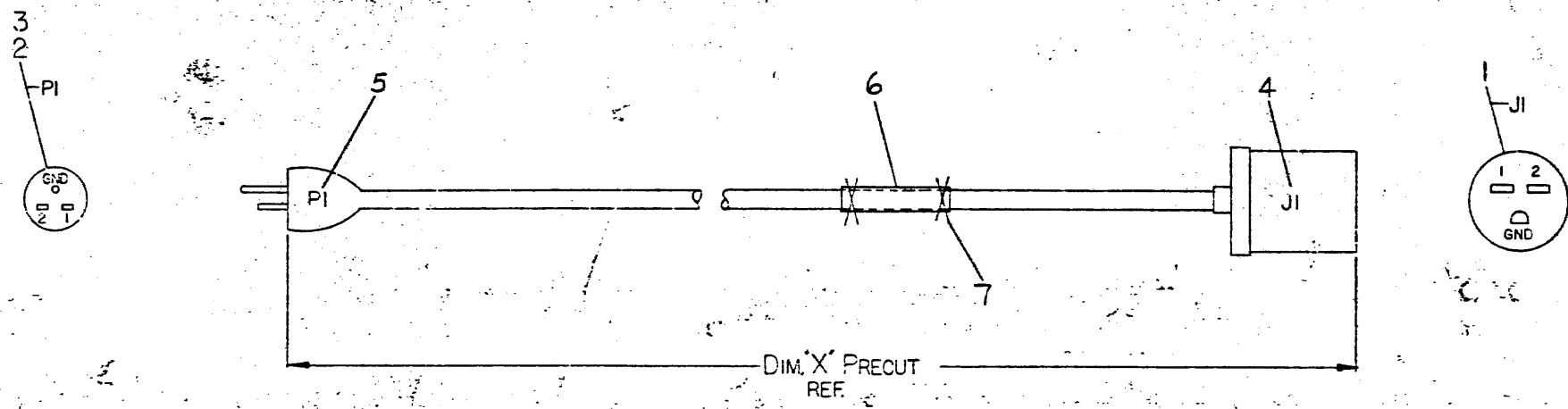
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WIRE TABLE						
ITEM NO	DESCRIPTION	FROM	TO	REMARKS		
2	—	BLK	PI-1	—	JI-1	—
OR	—	WHT	PI-2	—	JI-2	—
3	—	GRN	PI-GND	—	JI-GND	—

LEGEND	
NUMBER	DIM. & VARIATION
7011432-1	3 FT ± 1.5 IN.
7011432-2	6 FT ± 3.0 IN.
7011432-3	9 FT ± 3.0 IN.

NOTES:
1. POWER CORD INSULATED JACKET SHALL BE CAPTIVE WITHIN THE RECEPTACLE (ITEM #1) STRAIN RELIEF WITH NO WIRE INSULATION VISIBLE.



REV.	CHANGE NO.	DATE	BY	APP.
A	1	7/1/75	J. H. WILSON	

2	2	2	TIES, CABLE	9007031	7
1	1	1	LABEL, CABLE I.D.	9009532	6
1	1	1	POWER HARL. DECAL (WHT/CLR)	1A-DG7409872-1-0	5
1	1	1	POWER CONN. DECAL (WHT/CLR)	1A-DG7409873-1-0	4
1	1	1	POWER CORD 230V	1700016-09	3
1	1	1	POWER CORD 230V	1700016-06	2
1	1	1	RECEPTACLE, AC 3-WIRE	5008855	1

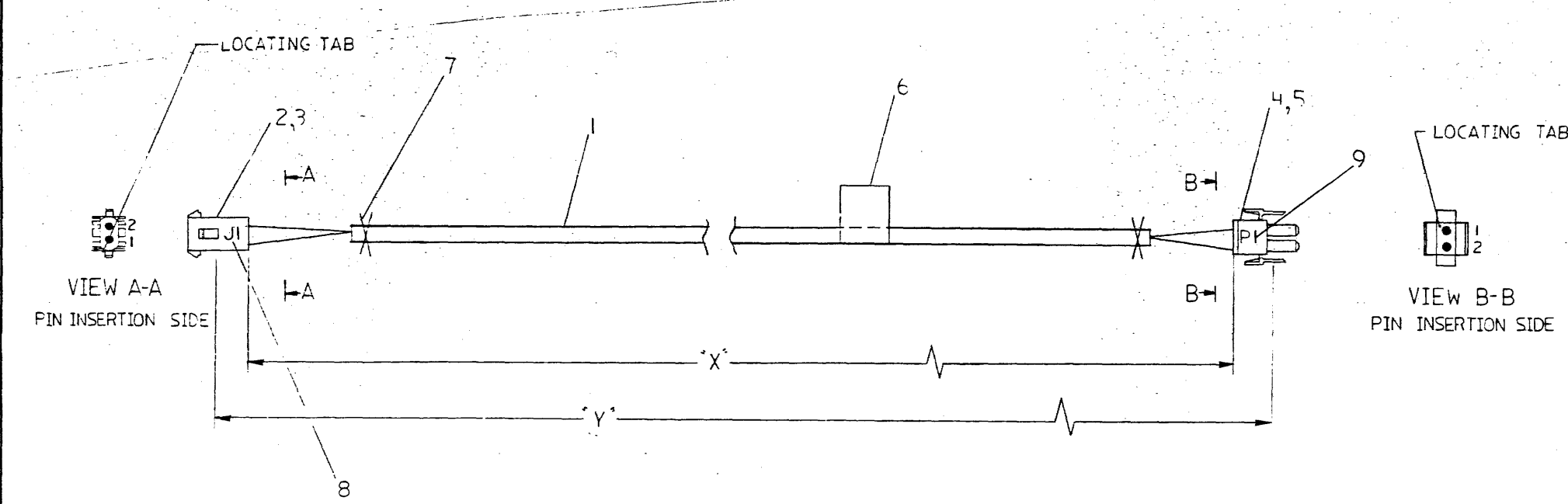
7011432-3	7011432-2	7011432-1
THIRD ANGLE PROJECTION		
REMOVE BURRS AND BREAK SHARP CORNERS		
DO NOT SCALE DWG		
NEXT HIGHER ASSY		
MATERIAL SEE PARTS LIST		
FINISH		
DESCRIPTION		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
CLASS OF ACCURACY		
SURFACE QUALITY		
MICROINCHES		
QUANTITY & VARIATION		
DRN. NO.		
CHKD. BY		
ENG. BY		
PROJ. ENG.		
PRCD.		
TITLE		
POWER CORD		
SIZE		
CODE		
NUMBER		
REV.		

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WIRE TABLE								
ITEM NO.	AWG	COLOR	POINT	FROM CONNECTION	WITH	POINT	TO CONNECTION	WITH
2	20	RED	—	J1-1	3	—	P1-1	5
	TWP	BLK	—	J1-2	3	—	P1-2	5

LEGEND				
PART NO.	DIM. X VARIATION	DIM. Y (PRECUT)	REF	REV
7021448-5C	5FT. 3IN ± 2.0IN	5FT. 4IN ± 2.0		A2

- NOTES:
1. CONNECTOR TO BE LABELED WITH COMPONENT IDENTIFIERS USING ITEMS 8 & 9.
 2. UNLESS OTHERWISE NOTED ALL LENGTHS ARE IN INCHES.



CAUTION: OFF SHEET PARTS LIST EXISTS
SEE K-PL-7021448-0-DBP.

REV.	ECO NUMBER	DATE
A	1	5-30-84
B	2	7-16-84
C	3	6-30-84
D	4	7-16-84

PCATABLE
PCATABLE

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'	SURFACE QUALITY	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES				
				OVER 0	OVER 0.2	OVER 0.4		
				TO 0.2	TO 0.4	TO 0.6		
				TO 0.6	TO 0.8	TO 1.0		
QUANTITY & VARIATION		MICROMETERS		± 0.04	± 0.08	± 0.12		
THIRD ANGLE PROJECTION		DATE		TITLE				
DO NOT SCALE DRAWING		DATE		CABLE, D.C. VOLTAGE MONITOR SECTION #1				
REMOVE BURRS AND BREAK SHARP CORNERS		DATE		DOCUMENT NUMBER				
MATERIAL		DATE		SIZE CODE NUMBER				
SEE PARTS LISTS		DATE		DIA 7021448-0-012				
FINISH		DATE		SCALE 1/1 SHEET 1 OF 1				

LINE ITEM TOP DOCUMENT

PART NUMBER REV DESCRIPTION

VARIATION REVISION LEVEL:

QTY PER VARIATION

5C

A2

1	1	9107789-02	WIRE,TWP 20AWG(07/28)PVC 300V	A/R
2	2	1212168-01	MATE-N-LOK 02POS(1X02).250CC HSG	1
3	3	1212169-00	MATE-N-LOK 01PIN 20-14AWG .0850D	2
4	4	1212167-02	MATE-N-LOK 02SKT(1X02).250CC HSG	1
5	5	1212170-00	MATE-N-LOK 01SKT 20-14AWG .0850D	2
6	6	3616073-00	LABEL,ID W/COPY VERTICAL	1
7	7	9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R
8	8	7409873-02	PWR CONN DECAL BLACK ON CLEAR	1
9	9	7409872-02	PWR HARNESS DECAL, BLACK ON CLEA	1

REVISION HISTORY			BASIC PART NO: 7021448		DRN: G. ALSTON		DATE: 30-MAY-84		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: J. BROWN		DATE: 16-JUL-84		TITLE PARTS LIST			
---	INITIAL	A	SECTION.VARIATION INDEX		DES.ENG: P. CAPPABIANCA		DATE: 20-JUN-84		CABLE,D.C. VOLTAGE			
PC	7021448-MR001	B	[A]5C		RESP.ENG.: P. CAPPABIANCA		DATE: 20-JUN-84		MONITOR SECTION #1			
			[B]		MFG.ENG.: JOHN MCCAFFREY		DATE: 16 JUL 84		DOCUMENT NUMBER			
			[C]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		SIZE!CODE! NUMBER		REV	
			[D]		D-IA-7021448-0-0		D-IA-7021448-0-0		K PL 7021448-0-DBP		B	
			[E]						RELEASE DATE: 31-JAN-85			
			[F]									

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8

0-0-250202

0000 3275

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3

2

1

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SYMBOL

ITEM NO.	SYMBOL	PART NO. (REF)
5	0	I2I5I2I-04
6	0	I2I2I70-00

WIRE TABLE

ITEM NO	DESCRIPTION	FROM			TO			REMARKS		
		AWG	COLOR	POINT	CONNECTION	WITH	POINT		CONNECTION	WITH
3	TWP	20	RED	1	PI-9	5	7	P2-1	6	
4	20		BLK	2	PI-7	5	8	P2-2	6	
10	20		ORG	5	PI-5	5	6		5	2.75 LG

LEGEND

PART NO	VARIATION	REV
7020352-00	AS SHOWN	A2

NOTES:

1. UNLESS OTHERWISE NOTED ALL LENGTHS ARE IN INCHES.

2. CONNECTOR TO BE LABELED WITH COMPONENT IDENTIFIERS.

REVISION HISTORY	REV	DATE	ECO NUMBER	RELEASED
	B			
	C			
	D			
	E			
	F			
	G			
	H			
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			

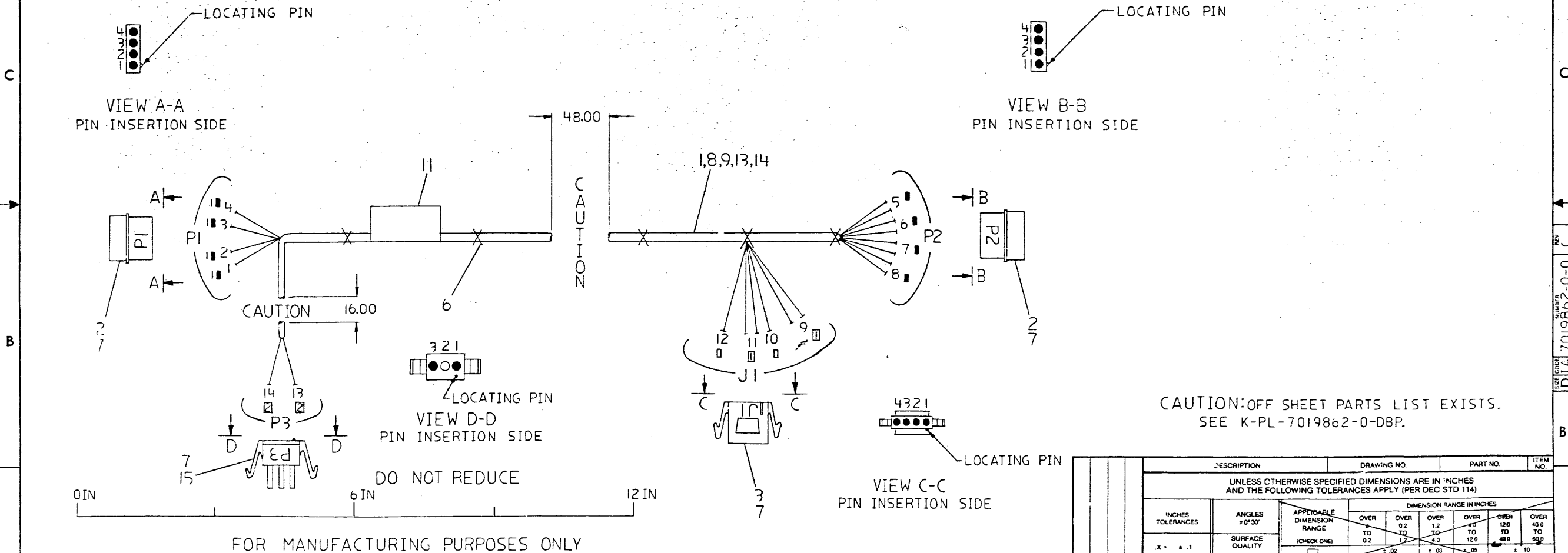
DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)								
INCHES TOLERANCES	ANGLES °/30'	APPROXIMATE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES					
			OVER 0.2 TO 0.2	OVER 0.2 TO 0.2	OVER 0.2 TO 0.2	OVER 0.2 TO 0.2	OVER 0.2 TO 0.2	OVER 0.2 TO 0.2
QUANTITY & VARIATION	SURFACE QUALITY							
THIRD ANGLE PROJECTION	DATE	TITLE	digital					
DO NOT SCALE DRAWING	DATE	HARNES DC VOLTAGE MONITOR						
REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DOCUMENT NUMBER						
MATERIAL	DATE	DIA 7020352-0-0						
SEE PARTS LIST	DATE	MPO 1						
FINISH	DATE	E-0A-C120-A-0						

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION
					VARIATION REVISION LEVEL:	00	A2
1	1		1214112-03		CONN,P+S 12POS(2X06).100CC HSG	1	
2	2		1212167-02		MATE-N-LOK 02SKT(1X02).250CC HSG	1	
3	3		9107789-02		WIRE,TWP 20AWG(07/28)PVC 300V	A/R	
4	4		9107460-00		WIRE, 20AWG(07/28)IPVC 150V	A/R	
5	5		1215121-04		CONN,P&S 01SKT 24-20AWG	6	
6	6		1212170-00		MATE-N-LOK 01SKT 20-14AWG .0850D	2	
7	7		9007031-00	B	TIE,CABLE BUNDL.DIA 0- 3/4"=101	2	
8	8	A-DC-7409872-0-0	7409872-02		PWR HARNESS DECAL, BLACK ON CLEA	1	
9	9		3616073-00		LABEL,ID W/COPY VERTICAL	1	
10	10		9107460-33		WIRE, 20AWG(07/28)IPVC 150V	A/R	
11	11	A-DC-7409872-0-0	7409872-01		PWR HARNESS DECAL WHITE ON CLEAR	1	

REVISION HISTORY			BASIC PART NO: 7020352		DRN: W. ALLEN		DATE: 1 OCT 82		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A						TITLE PARTS LIST			
---	INITIAL	B	SECTION VARIATION INDEX		CHK'D: G. F.		DATE: 10 DEC 82		HARNESS D C			
PC	7020352-MR001	C	[A]00						VOLTAGE MONITOR			
			[B]		DES.ENG: P. CAPPABIANCA		DATE: 13 APR 83		DOCUMENT NUMBER			
			[C]						SIZE	CODE	NUMBER	REV
			[D]		RESP.ENG.: P. CAPPABIANCA		DATE: 13 APR 83		K	PL	7020352-0-DBP	C
			[E]		MFG.ENG.: J. MCCAFFERY		DATE: 11 APR 83		RELEASE DATE: 30-OCT-84			
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
					D-1A-7020352-0-0				Z5906C.PLS		13	

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8		6		5		4		3		2		1																				
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		ITEM DESCRIPTION		FROM			TO			PART NO		VARIATION			REV																	
		NO	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	7019862-00				AS SHOWN		B1															
SYMBOLS <table><tr><th>ITEM NO.</th><th>SYMBOL</th><th>PART NO. (REF)</th></tr><tr><td>4</td><td>■</td><td>1209378-00</td></tr><tr><td>5</td><td>□</td><td>1209379-03</td></tr><tr><td>10</td><td>■</td><td>1209378-03</td></tr><tr><td>12</td><td>■</td><td>1209379-00</td></tr><tr><td>16</td><td>■</td><td>1212170-00</td></tr></table>		ITEM NO.	SYMBOL	PART NO. (REF)	4	■	1209378-00	5	□	1209379-03	10	■	1209378-03	12	■	1209379-00	16	■	1212170-00	9	22	BLK	1	PI-1	10	8	P2-1	4				
		ITEM NO.	SYMBOL	PART NO. (REF)																												
		4	■	1209378-00																												
		5	□	1209379-03																												
		10	■	1209378-03																												
		12	■	1209379-00																												
		16	■	1212170-00																												
		9	22	BLK	9	J1-1	12	13	P3-1	16																						
14	18	BLK				7	P2-2	4																								
9	22	BLK	2	PI-2	10																											
9	22	BLK	10	J1-2	5	6	P2-3	4																								
8	22	ORN	3	PI-3	10																											
8	22	ORN	11	J1-3	12	14	P3-3	16																								
13	18	ORN																														
		1	22	YEL	4	PI-4	10	5	P2-4	4																						
		1	22	YEL	12	J1-4	5																									



CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7019862-0-DBP.

DESCRIPTION		DRAWING NO.		PART NO.		ITEM NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)									
QUANTITY & VARIATION	INCHES TOLERANCES X = ± .1 XX = ± .02 XXX = ± .005	ANGLES ± 0° 30'	SURFACE QUALITY ✓	APPLICABLE DIMENSION RANGE (CHECK ONE)					
				DIMENSION RANGE IN INCHES					
				OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 120		
THIRD ANGLE PROJECTION		DATE 16 NOV 82		TITLE HARNESS, SWITCH VANE					
DO NOT SCALE DRAWING		DATE 14 DEC 82		DOCUMENT NUMBER					
REMOVE BURRS AND BREAK SHARP CORNERS		DATE 14 APR 83		DIA 7019862-0-0 C					
MATERIAL		DATE 14 APR 83		SCALE 1/1					
SEE PARTS LIST		DATE 14 APR 83		SHEET 1 OF 1					
FINISH		DATE 14 APR 83		1/20					

MIN

QTY PER VARIATION

00

VARIATION REVISION LEVEL:

LINE ITEM TOP DOCUMENT

PART NUMBER REV DESCRIPTION

1	1	9107350-44	WIRE, 22AWG(07/30)IPVC 150V	A/P
2	2	1209351-01	MATE-N-LOK 04PIN(1X04).200CC HSS	2
3	3	1209350-04	MATE-N-LOK 04SKT(1X04).200CC HSS	1
4	4	1209378-00	MATE-N-LOK 01PIN 20-14AWG .0850D	4
5	5	1209379-03	MATE-N-LOK 01SKT 30-22AWG .0850D	2
6	6	9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	A/R
7	7	7409873-02	PWR CONN DECAL BLACK ON CLEAR	1
8	8	9107350-33	WIRE, 22AWG(07/30)IPVC 150V	A/R
9	9	9107350-00	WIRE, 22AWG(07/30)IPVC 150V	A/R
10	10	1209379-03	MATE-N-LOK 01PIN 30-22AWG .0850D	4
11	11	3516077-00	LABEL,TD W/COPY VERTICAL	1
12	12	1209379-00	MATE-N-LOK 01SKT 20-14AWG .0820D	2
13	13	9107360-33	WIRE, 18AWG(19/30)IPVC 150V	A/R
14	14	9107360-00	WIRE, 18AWG(19/30)IPVC 150V	A/R
15	15	1212167-00	MATE-N-LOK 03SKT(1X03).250CC HSS	1
16	16	1212170-00	MATE-N-LOK 01SKT 20-14AWG .0950D	2

REVISION HISTORY			BASIC PART NO: 7019862			DRW: JOE DONAHER			DATE: 15 NOV 82			DIGITAL		
REV			SECTION A OF A			CHK'D: G. F.			DATE: 14 APR 83			TITLE PARTS LIST		
INITIAL			SECTION VARIATION INDEX			DES.ENG: P. CAPPABIANCA			DATE: 14 APR 83			HARNESS, SWITCH VANE		
			EAT00											
			[B]			RESP.ENG.: P. CAPPABIANCA			DATE: 14 APR 83			DOCUMENT NUMBER		
			[C]									SIZE CODE NUMBER		
			[D]									REV		
			[E]			ASSEMBLY NUMBER:			DATE: 11 APR 83			K PL 7019862-0-DBP C		
			[F]			TOP DOCUMENT NUMBER:			RELEASE DATE: 02-FEB-84					
						FILE NAME:			EDIT #					
						Z5889C.PLS			9					
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NOTES:

[illegible]

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USED ON OPTION/MODEL	
KL10	

DRN.	M. Normand	25 Sept 81
CHK'D	RW Counter	10 Oct 81
ENG.	KE Josephson	10 Oct 81
PROD.	10 Oct 81	1 Oct 81

TITLE	VOLTAGE MONITOR BOARD
-------	-----------------------

SIZE	CODE	NUMBER					REV.
B	DD	5414506-1					A
SHEET		OF					

ME

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 01	REFERENCE DESIGNATOR
1	1	D-MD-5014505-0-0	5014505-00	DRILL AND ETCH BRD.	1	
2	2		1000075-00	25 MFD 25V +75-10% AL EL	1	C1
3	3		1000004-00	.02 MFD 100V 20% Z5U DISC	1	C2
4	4		1001610-00	.01 MFD 50V +80-20% Z5U CER	1	C3
5	5		1000080-00	50 MFD 50V +75-10% AL EL	1	C4
6	6		1010274-01	.22 MFD 50V +80-20% Z5U CER	2	C5,C6
7	7		1117373-00	LED ASSY GREEN	1	D1
8	8		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	1	D2
9	9		1217652-00	HEADER 12PIN RT ANGLE,DBL RO	1	J1
10	10		1317925-00	6.98 K .25 W .10% RN55E-B 2	1	R1
11	11		1317924-00	36.50 K .25 W .10% RN55E-B 2	1	R2
12	12		1317923-00	51.10 K .25 W .10% RN55E-B 2	1	R3
13	13		1317922-00	732.0 .25 W .10% RN55E-B 2	1	R4
14	14		1305355-00	7.0 K .25 W .10% RN55C-B 5	1	R5
15	15		1300365-00	1.0 K .25 W 5.0 % CC	2	R6,R7
16	16		1300250-00	150.0 .25 W 5.0 % CC	1	R8
17	17		1300347-00	680.0 .50 W 5.0 % CC	1	R9
18	18		1302368-00	1.0 K 1.0 W 5.0 % CC	1	R10
19	19	SEE NOTE #1	1917657-00	3544J LOW-VOLT SUPERVISORY	1	E1
20	20		1300447-00	4.70 K .25 W 5.0 % CC	2	R11,R12
21	21		1211164-00	SW,DIP 1P 1A 4POS	1	SW1
22	22		9107807-11	TUBING,THIN WALL,.022ID UL A/R		

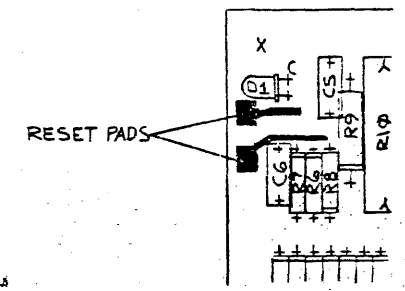
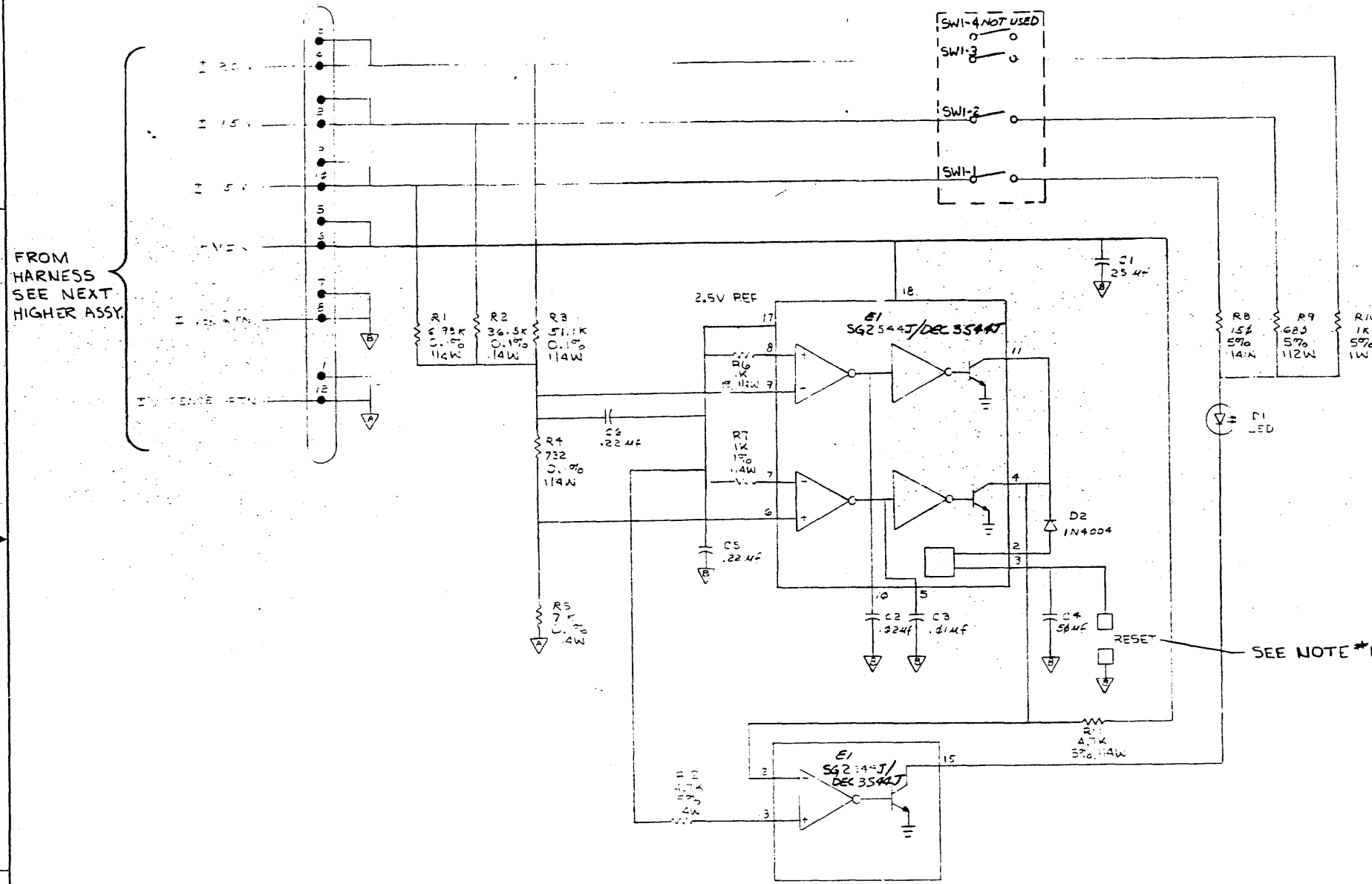
23 NOTE: 1.THIS PART CAN BE MARKED SG2544J/DEC3544J.

REVISION HISTORY			BASIC PART NO: 5414506			DRN: M,NORMAND			DATE: 22-SEP-81			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: R,W,CAUNTER			DATE: 1-OCT-81			TITLE PARTS LIST		
---	INITIAL	A	SECTION VARIATION INDEX			[A] 01			5414506-01			VOLTAGE MONITOR BOARD		
			[B]			DES.ENG: R,JOSEPHSON			DATE: 1-OCT-81			DOCUMENT NUMBER		
			[C]			RESP.ENG: R,JOSEPHSON			DATE: 1-OCT-81			SIZE CODE NUMBER REV		
			[D]			MFG.ENG: T,CAVANAUGH			DATE: 1-OCT-81			Y PL 5414506-1-DBP A		
			[E]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME:		
			[F]			D-UA-5414506-1-0			R-DD-54145-5-1			Z3208A,PL8		
			[G]											
			[H]											
			[I]											
			[J]											
			[K]											
			[L]											
			[M]											
			[N]											

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NOTES:
1. JUMPER PADS TO RESET INDICATOR. RESET IS ALSO PROVIDED BY REMOVAL OF ALL POWER TO THE MODULE. RESET JUMPER MUST BE LESS THAN 100 OHMS MAXIMUM.



SWITCH POSITION	VOLTAGE
1	OFF OFF ON
2	OFF ON OFF
3	ON OFF OFF
4	NOT USED

SWITCH SW1
CAUTION: ONLY ONE SWITCH MUST BE ON FOR PROPER OPERATION OF THIS BOARD.

SEE NOTE #1

REV	CHANGED NO.
1	1

DRN: [Signature]	FIRST USED ON	KL12	digital
CHKD: [Signature]	TITLE	VOLTAGE MONITOR BOARD	
ENG: [Signature]	PROJ: [Signature]		
PROJ: [Signature]	DATE: [Signature]		
NEXT: [Signature]	DATE: [Signature]		
DATE: [Signature]	DATE: [Signature]		
SCALE: [Signature]	SCALE: [Signature]		
SHEET: [Signature]	SHEET: [Signature]		

MR 1

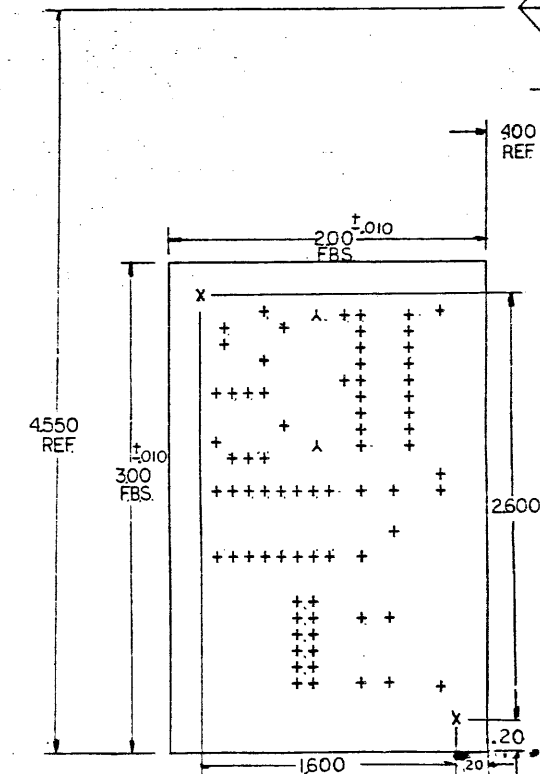
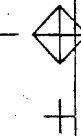
TITLE VOLTAGE MONITOR

J1-11 SENSE VOLTAGE RETURN
J1-12 SENSE VOLTAGE RETURN

In addition, two printed circuit pads are provided for reset.

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COMPONENT SIDE VIEW



NOTES: 2ML74

STEP 1: + Y AXIS 35 STEP 2 TIMES

REPEAT: + X AXIS 26 STEP 3 TIMES

CHK	CHANGE NO	REV	DIMENSIONAL TOLERANCE INCHES
			XXX = ±.005
			XX = ±.020
			X = ±.040
			ANGLE = ±0°30'

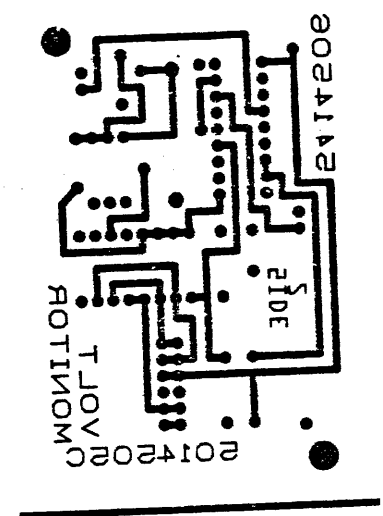
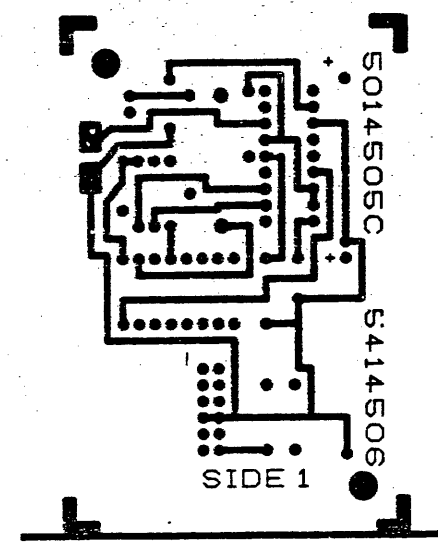
HOLE DATA										
SYMBOL	+	A	X	+	Z	M	A	D	+	*
FIN HOLE SIZE	.042	.055	.141							
PLATED	X	X	OPT							
NON PLATED										
QTY.	74	2	2							
()-OFF GRD HLE										
DRILL SIZE										
.025 GRID UNLESS INDICATED										

BOARD FABRICATION INFORMATION	
BOARD SIZE	10.5 QUAD
BOARD DATA	DWG. #EMD-7605819-17-0
BOARD MAT'L	FL-6F-065-E 2/2
DES PS	-1400000
QTY. OF LAYERS	2
PTH. X PRINT	PAD-ETCH
SOLDER MASKING	SIDE 2 BOTH SIDES
GLD. CONTACTS	NO BOTTOM TOP

SIGNATURES		DATE	digital	TITLE	DRILL AND ETCH DRAWING
DRN.	REVISION	5-18-80			
CHK.	5-20-80	6-10-80			
TECH. ENG.	6-10-80				
PROJ. ENG.	6-10-80				
PROD. ENG.	7-10-80				
SCALE	2/1				
SHT.	1 OF 2				
NEXT HIGHER ASSY. DUA-5414506-0-0 ETCH REV. C					

MR 1 MS# 190515A

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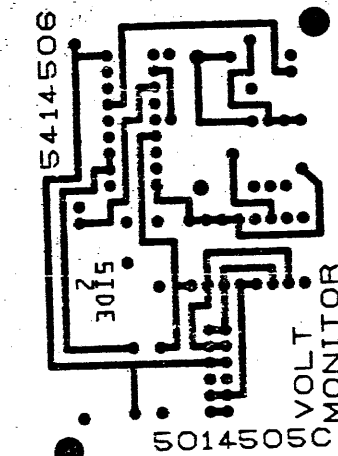
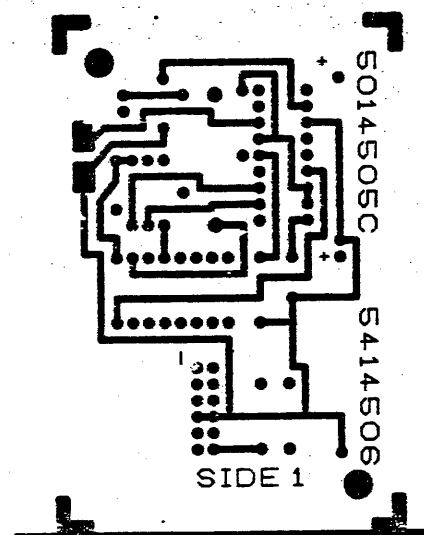


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER		REV.
DRILL & ETCH DRAWING		D	MD	5014505-0-0	A
SCALE	2/1	SHEET	2	OF	2

ME 1

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NOTES:

CHK	CHANGE	NO	REV

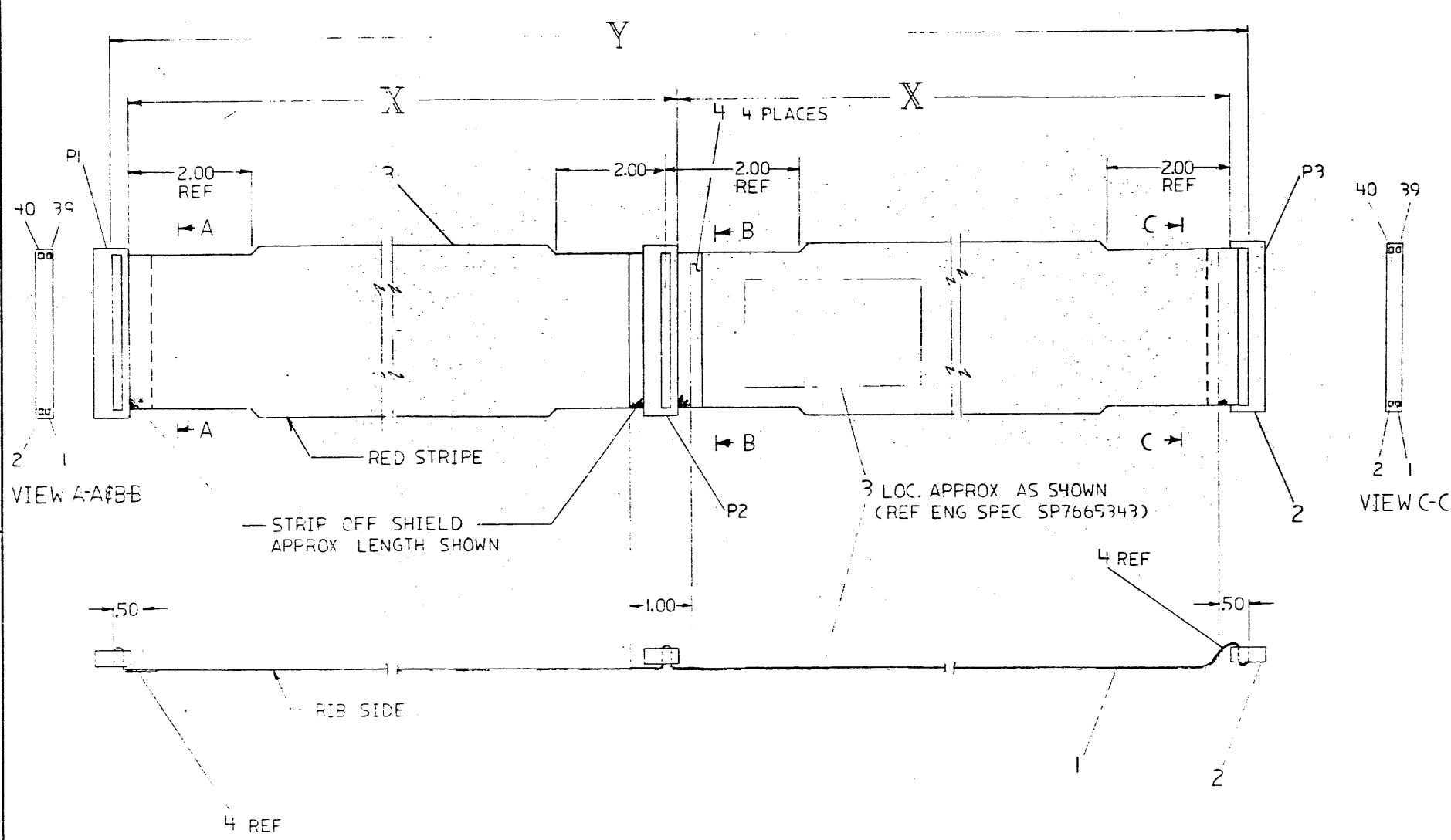
SIGNATURES		DATE	digital
DRN. R. W. Carter		6/20/80	
CHK. D. W. Carter		6/20/80	
ENG. R. W. Carter		6/20/80	
PROJ. ENG. R. W. Carter		6/20/80	
PRCD. R. W. Carter		6/20/80	TITLE
SCALE 2/1			ETCH CUT DRAWING
SHT. 1 OF 1		SIZE CODE	NUMBER
ETCH REV C FIRST USED ON KLI0		D EC 5014505-0-0	REV A

MIL 1 MS#

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LEGEND			
PART NO.	DIM "X"	DIM "Y" (PRECUT)	REV
7019270-1J	0 FT., 10 IN. ± 1 IN.	1 FT., 10 IN. (REF)	AI
7019270-03	1 FT., 6 IN. ± 1 IN.	3 FT., 2 IN. (REF)	AI

NOTES:



CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7019270-0-D3P.

REVISION HISTORY	ECO NUMBER	REV
RELEASED		B

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 (CHECK ONE)	
X ± 1	SURFACE QUALITY	OVER 0.2 TO 1.2	
XX ± 0.2	✓	OVER 1.2 TO 4.0	
XXX ± 0.05	MICROINCHES	OVER 4.0 TO 12.0	
		OVER 12.0 TO 40.0	
		OVER 40.0 TO 100.0	
THIRD ANGLE PROJECTION	DATE 10 MAR 81	TITLE digital	
DO NOT SCALE DRAWING	DATE 11 SEP 82	BUS, CABLE	
REMOVE BURRS AND BREAK SHARP CORNERS	DATE 13 APR 83	M. ASSY	
MATERIAL	DATE 13 APR 83	DOCUMENT NUMBER	
SEE PARTS LIST	DATE	DIA 7019270-0-0 B	
FINISH	DATE	SCALE	
		SHEET 1 OF 1	

LINE ITEM TOP DOCUMENT

PART NUMBER REV DESCRIPTION

VARIATION REVISION LEVEL:

QTY PER VARIATION
1J 03

1	1	1700004-01	CABLE,RIBBON BOND 50CND 28AWG	A/R	A/R
2	2	1211664-00	CONN,IDC 50POS(1X25).100CC GOL	3	3
3	3	3616073-00	LABEL,ID W/COPY VERTICAL	1	1
4	4	3612511-00	TAPE,VINYL ADH .50 WDX 7M	A/R	0

REVISION HISTORY		BASIC PART NO: 7019270		DRN: W. ALLEN		DATE: 10-MAR-82		D I G I T A L	
ENG	ECD NUMBER	REV	SECTION A OF A	CHK'D: G. F.		DATE: 10 DEC 82		TITLE PARTS LIST	
---	INITIAL	8	SECTION VARIATION INDEX	DES.ENG: P. CAPPABIANCA		DATE: 13 APR 83		DOCUMENT NUMBER	
			[A]1J,03					SIZE CODE NUMBER	
			[B]	RESP.ENG.: P. CAPPABIANCA		DATE: 13 APR 83		K PL 7019270-0-000	
			[C]						
			[D]	MFG.ENG.: J. MCCAFFERY		DATE: 11 APR 83		RELEASE DATE: 02-MAR-84	
			[E]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
			[F]	ID-IA-7019270-0-0				25885B.PLS	
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1982 DIGITAL EQUIPMENT CORPORATION

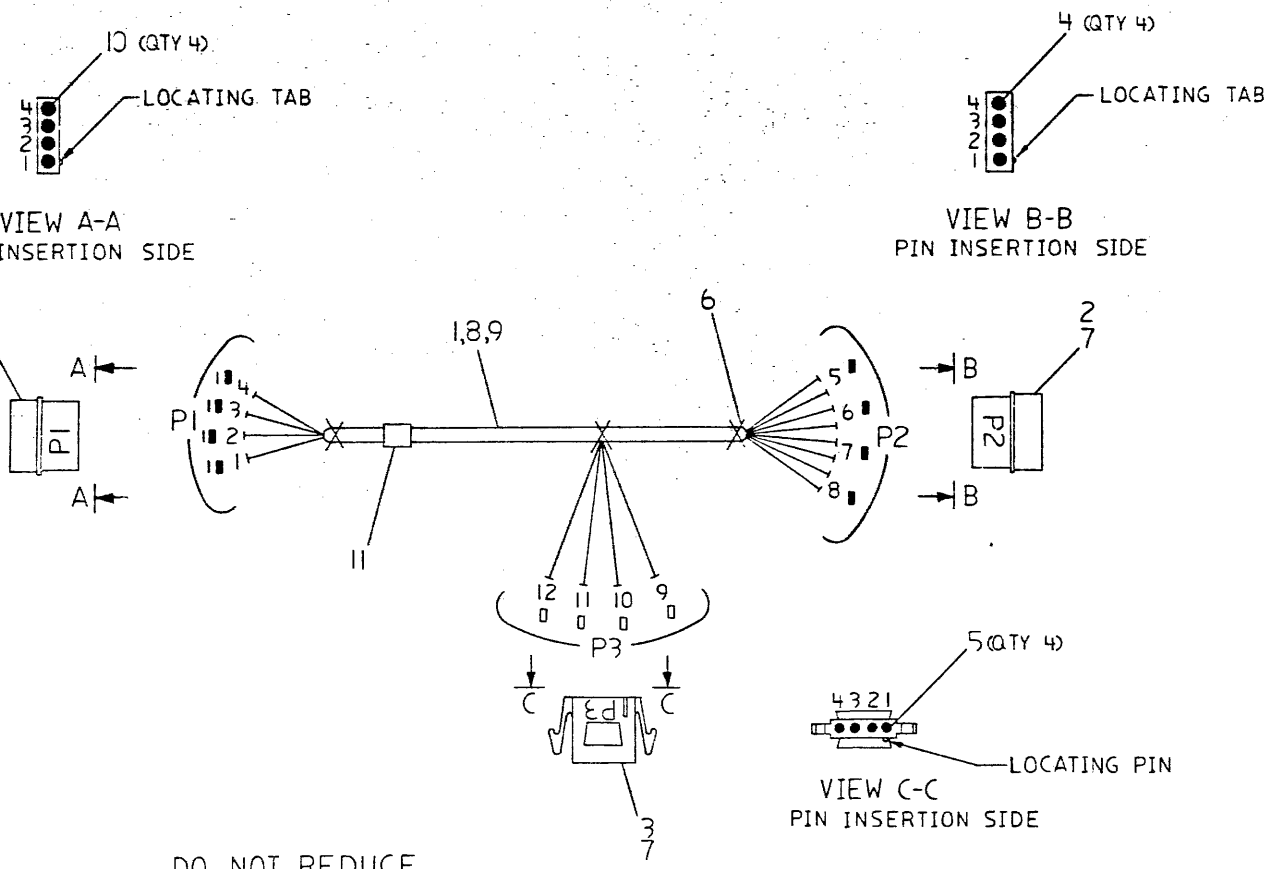
SYMBOLS

ITEM NO	SYMBOL	PART NO (REF)
4		1209378-00
5		1209379-03
10		1209378-03

WIRE TABLE									
ITEM DESCRIPTION			FROM			TO			REMARKS
NO	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
9	22	BLK	1	PI-1	10				
			9	P3-1	5	8	P2-1	4	
			2	PI-2	10				
9		BLK	10	P3-2	5	7	P2-2	4	
8		ORN	3	PI-3	10				
8		ORN	11	P3-3	5	6	P2-3	4	
1		YEL	4	PI-4	10				
1	22	YEL	12	P3-4	5	5	P2-4	4	

LEGEND		
PART NO	VARIATION	REV
7020488-00	AS SHOWN	A1

- NOTES:
1. USE TIE WRAPS (X) ITEM #6 APPROXIMATELY EVERY 3 INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT.
 2. CONNECTOR TO BE LABELED WITH COMPONENT IDENTIFIERS.
 3. UNLESS OTHERWISE NOTED ALL LENGTHS ARE IN INCHES.



DO NOT REDUCE
0 IN 6 IN 12 IN
FOR MANUFACTURING PURPOSES ONLY

CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7020488-0-DBP. (Z5867A)

REV	ECO NUMBER	DATE
1	1	11-1-82

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				
X = ± .1	SURFACE QUALITY	DIMENSION RANGE IN INCHES				
XX = ± .02		OVER 0 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 80.0
XXX = ± .006	✓	± .02	± .03	± .04	± .05	± .06
QUANTITY & VARIATION	MICROMETERS	± .004	± .008	± .012	± .016	± .024
THIRD ANGLE PROJECTION	DATE 15 Nov 82	TITLE HARNESS, SMALL SWITCH VANE				
DO NOT SCALE DRAWING	DATE 13-5-84	DOCUMENT NUMBER				
REMOVE BURRS AND BREAK SHARP CORNERS	DATE 3-5-84	DIA 7020488-0-0				
MATERIAL	DATE 2-5-84	SCALE 1/1				
SEE PARTS LIST	DATE 1-5-84	SHEET 1 OF 1				
FINISH	DATE 1-5-84	N/A				

1. *Journal of the American Medical Association*, 1990; 263: 1025-1026.

LINE	ITEM	TOP DOCUMENT	PART NUMBER	REV	DESCRIPTION	QTY	PER VARIATION
					VARIATION REVISION LEVEL:	00	A1
1	1		9107350-44		WIRE, 22AWG(07/30)IPVC 150V	A/R	
2	2		1209351-04		MATE-N-LOK 04PIN(1X04).20000 HSG	2	
3	3		1209350-04		MATE-N-LOK 04SKT(1X04).20000 HSG	1	
4	4		1209378-00		MATE-N-LOK 01PIN 20-14AWG .08500	4	
5	5		1209379-03		MATE-N-LOK 01SKT 30-22AWG .08500	4	
6	6		9007031-00		TIE,CABLE BUNDL DIA 0- 3/4"=101	A/R	
7	7	A-DC-7409872-0-0	7409872-02		PWR HARNESS DECAL, BLACK ON CLEA	1	
8	8		9107350-33		WIRE, 22AWG(07/30)IPVC 150V	A/R	
9	9		9107350-00		WIRE, 22AWG(07/30)IPVC 150V	A/R	
10	10		1209378-03		MATE-N-LOK 01PIN 30-22AWG .08500	4	
11	11		3616073-00		LABEL,ID W/COPY VERTICAL	1	

REVISION HISTORY			BASIC PART NO: 7020488		DRN: JOE DONAHER		DATE: 15 NOV 82		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: JIM SICARD	DATE: 13 FEB 84	TITLE PARTS LIST				
---	INITIAL	A	SECTION VARIATION INDEX			SHORT SWITCH VANE				
			(A) 100							
			(B)	DES.ENG: P CAPPABIANCA	DATE: 29 JUN 84	DOCUMENT NUMBER				
			(C)			SIZE	CODE	NUMBER	REL.	
			(D)	RESP.ENG.: P CAPPABIANCA	DATE: 29 JUN 84	K	PL	7020488-0-DBP	A	
			(E)	MFG.ENG.: J MCCAFFREY	DATE: 29 JUN 84	RELEASE DATE: 05-JUL-84				
			(F)	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:				
				10-1A-7020488-0-0	10-1A-7020488-0-0	25987A.PLS				
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D

C

B

A

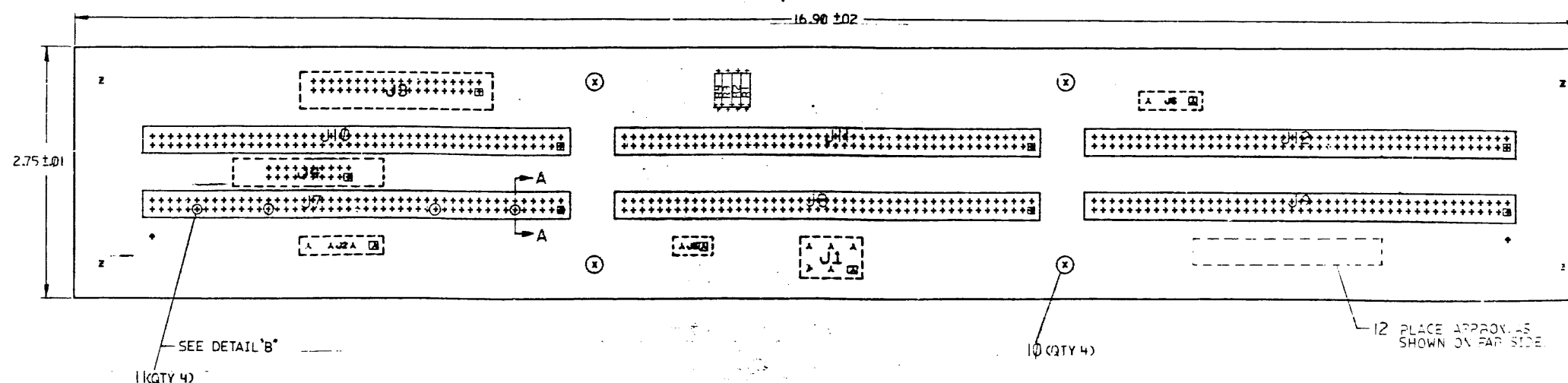
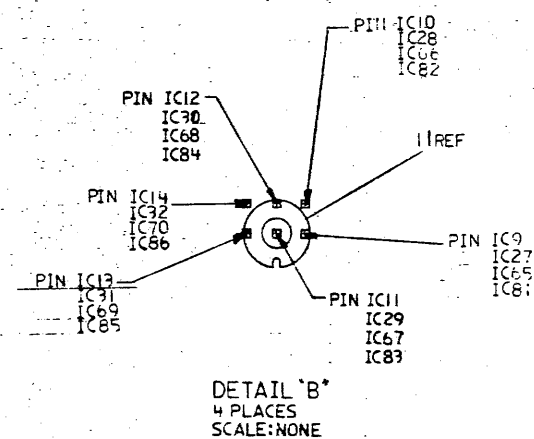
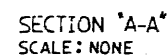
DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS
			ECO NUMBER	-
		5414793-00	MODULE REVISION	A1
E-UA-5414793-0-0	1		IPA 20-L BACKPANEL	A
K-PL-5414793-0-DBP	1		PARTS LIST, 5414793	A
D-CS-5414793-0-1	5		IPA20-L BACKPLANE INT CONN	A
K-PC-5414793-0-DBC	-		CALDEC DATA BASE	A
D-DD-5014792-0	1		DRAWING DIRECTORY, 5014792	A

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN	E. WILSON	DATE	06-12-84	ENG.	06-12-84	DATE	06-12-84	TITLE:	DRAWING DIRECTORY			
	CHK'D.	06-12-84	DATE	06-12-84	BOARD LOCATION:	N/A			5414793				
	DSK:14793.T2P14.361	06-12-84	09:41	NEXT HIGHER ASSEMBLY:									
FIRST USED ON OPTION/MODEL:										SIZE	CODE	NUMBER	REV.
										D	DD	5414793-0	A

REV. A
5414793-0
DD
B



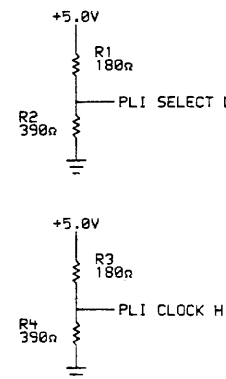
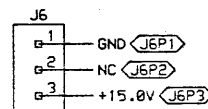
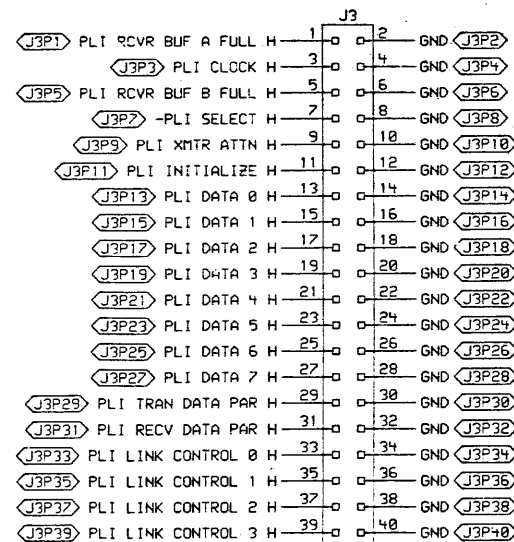
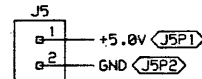
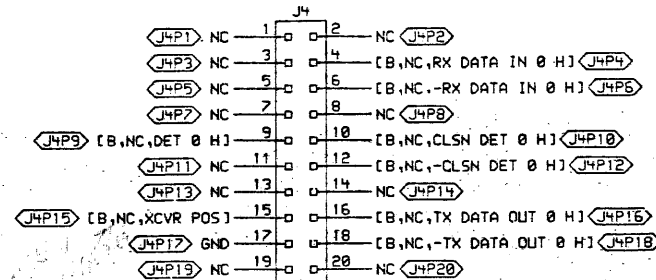
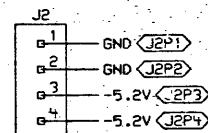
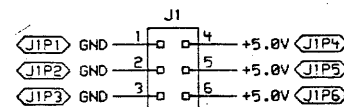
LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
				VARIATION REVISION LEVEL:	00		
					A1		
1	1	D-MD-5014792-0-0	5014792-00	DRILL&ETCH DRAWING	1		
2	2		1300309-00	390.0 .25 W 5.0 % CF	2		R2,R4
3	3		1301322-00	180.0 .25 W 5.0 % CF	2		R1,R3
4	4		1212297-12	MATE-N-LOK 06PIN(2X03).250CC HDR	1		J1
5	5		1212297-15	MATE-N-LOK 04PIN(1X04).250CC HDR	1		J2
6	6		1220547-01	PCB HEADER 40PIN(2X20).100CC STR	1		J3
7	7		1217869-01	PCB,HEADER 20PIN(2X10).100CC STR	1		J4
8	8		1212297-10	MATE-N-LOK 02PIN(1X02).250CC HDR	1		J5
9	9		1212297-14	MATE-N-LOK 03PIN(1X03).250CC HDR	1		J6
10	10		9009150-02	INSERT,THREAD SLP-CLNCH	4		
11	11		1218506-00	CONN,COAX BKP 50 OHM PLUG CLAM	4		
12	12	A-DC-7411881-0-0	7411881-01	DECAL	1		
13	13		1218421-02	CARD EDGE 94PIN(2X47).100CC STR	6		J7-J12
14	14		9905016-04	CARTON,DIE CUT,SELF LOCK W/FOAM	1		

REVISION HISTORY		BASIC PART NO: 5414793		DRN: J.PLANTE		DATE: 14-SEP-82		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	R.W.CAUNTER	DATE:	1-DEC-82	TITLE	PARTS LIST
---	INITIAL	A	SECTION VARIATION INDEX	CHK'D:	R.W.CAUNTER	DATE:	1-DEC-82	5414793	IPA 20-L BACKPLANE
			[A] 00						
			[B]						
			[C]	DES.ENG:	P.CAPPABIANCA	DATE:	8-JUN-84		DOCUMENT NUMBER
			[D]					SIZE	CODE
			[E]					NUMBER	REV
			[F]	RESP.ENG.:	P.CAPPABIANCA	DATE:	8-JUN-84	K	PL
			[G]						
			[H]						
			[J]						
			[K]	MFG.ENG.:	S.BAYNE	DATE:	5-NOV-84		RELEASE DATE: 05-NOV-84
			[L]						
			[M]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			[N]	IE-DA-5414793-0-0		IE-DD-5414793-0		Z9869A.PLS	14

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IPA20-L POWER AND SIGNAL INTERCONNECTIONS

- NOTES: 1. THE VARIABLE FIELDS ARE DEFINED AS FOLLOWS:
[B, FIELD 1, FIELD 2]
FIELD 1 = C120; FIELD 2 = N1A20
2. NO VARIABLE SIGNAL FIELD DENOTES A COMMON
SIGNAL FOR BOTH C1/N1A 20.
3. FOR BACKPANEL WIRELISTER GENERATION/CONTROL,
RUN THE FOLLOWING WD FILES WITH SW B=2:
IPAPWR.WD, BKPSL1.WD, AND BKPSL2.WD
4. FOR C120 OR N1A20 BACKPANEL SIGNAL WIRELIST,
RUN THE FOLLOWING WD FILES:
IPAPWR.WD, IPASLT1.WD, AND IPASLT2.WD
AND SET SW B=1 FOR C120 AND B=2 FOR N1A20.

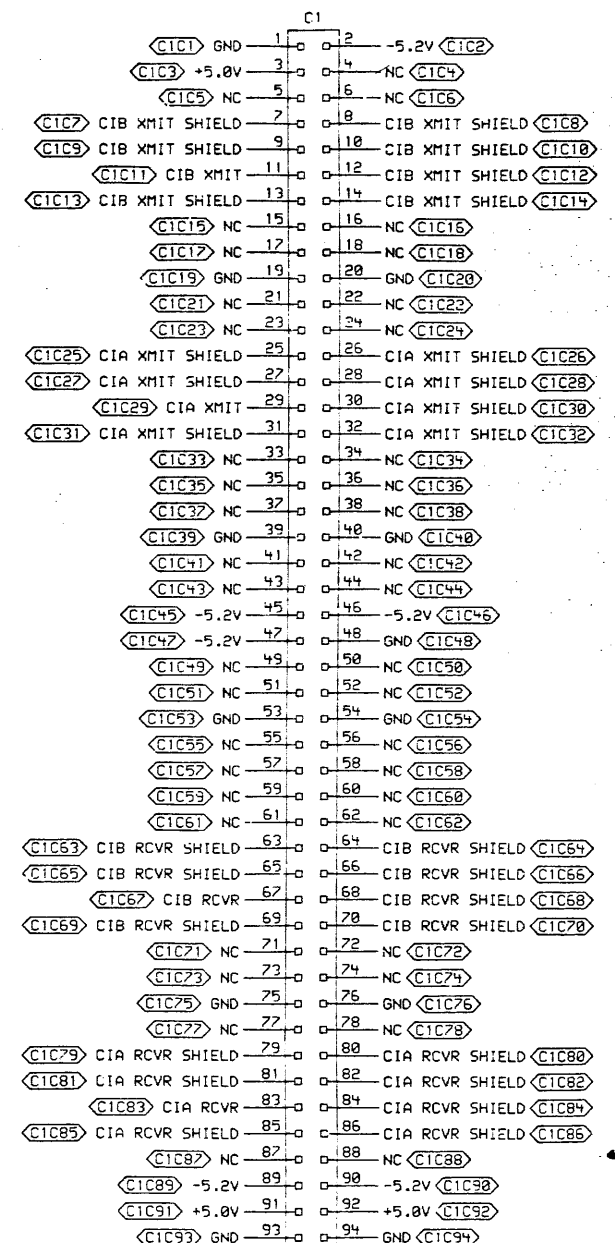
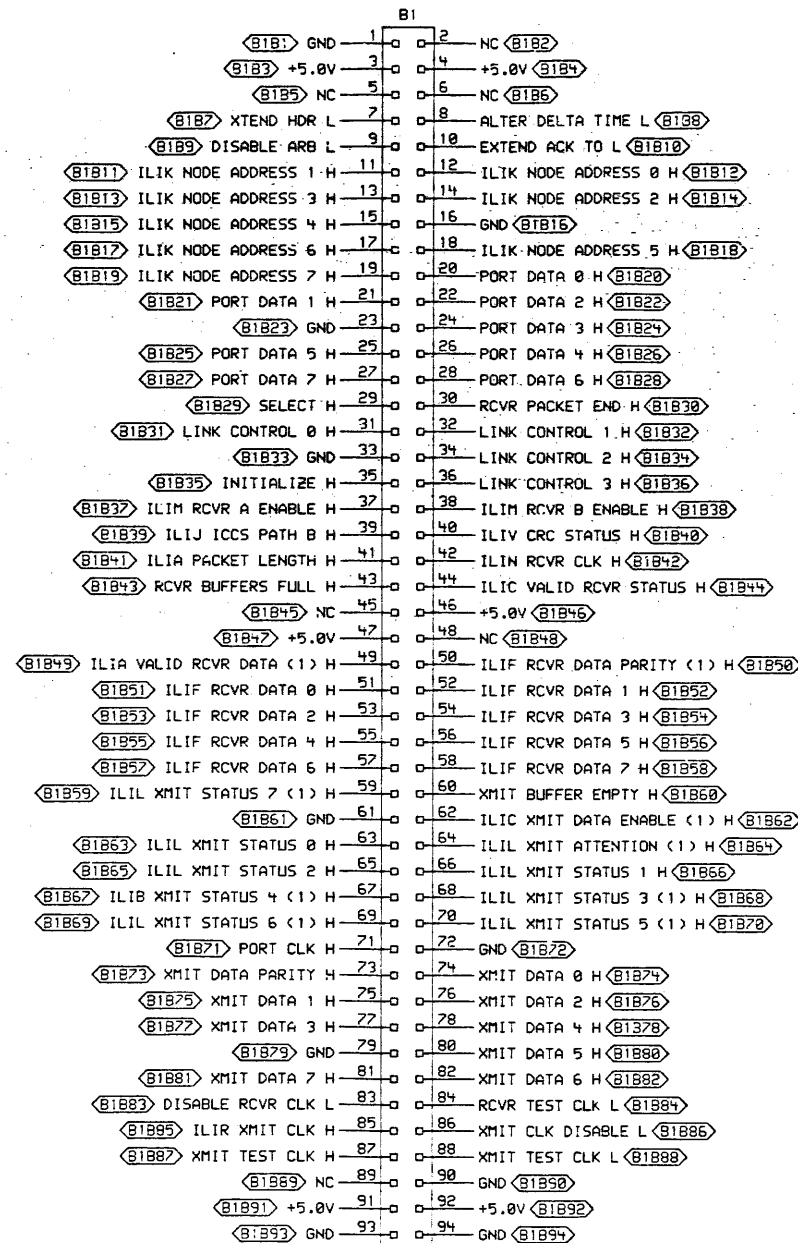
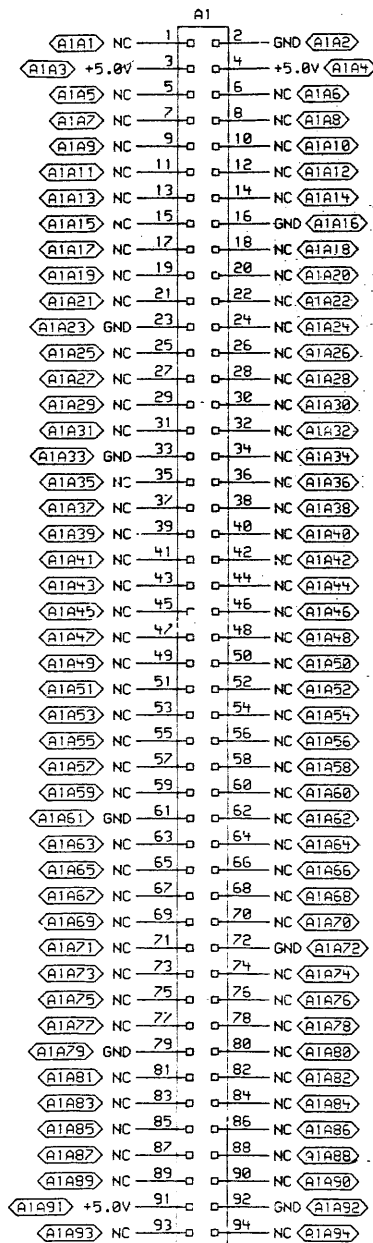


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REVISIONS	
CHK	CHANGE NO. REV.

DIGITAL	DATE 10-22-84	ENG. R. J. EICHMANN	DATE 10-22-84	TITLE: IPA20-L	
	CHK'D D. DELLORCO	DATE 10-22-84	BOARD LOCATION: 1 OF 5	BACKPLANE INT CONN	
XTRA: (EICHMANN) IPAPWR.DRW 10-JUL-84 09:08 NEXT HIGHER ASSEMBLY: IPA20-L				SIZE D	CODE CS
FIRST USED ON OPTION/MODEL: IPA20-L				NUMBER 5414793-0-1	REV. A

L0100 (LINK) SIGNALS FOR SLOT 1 (CI20 ONLY)

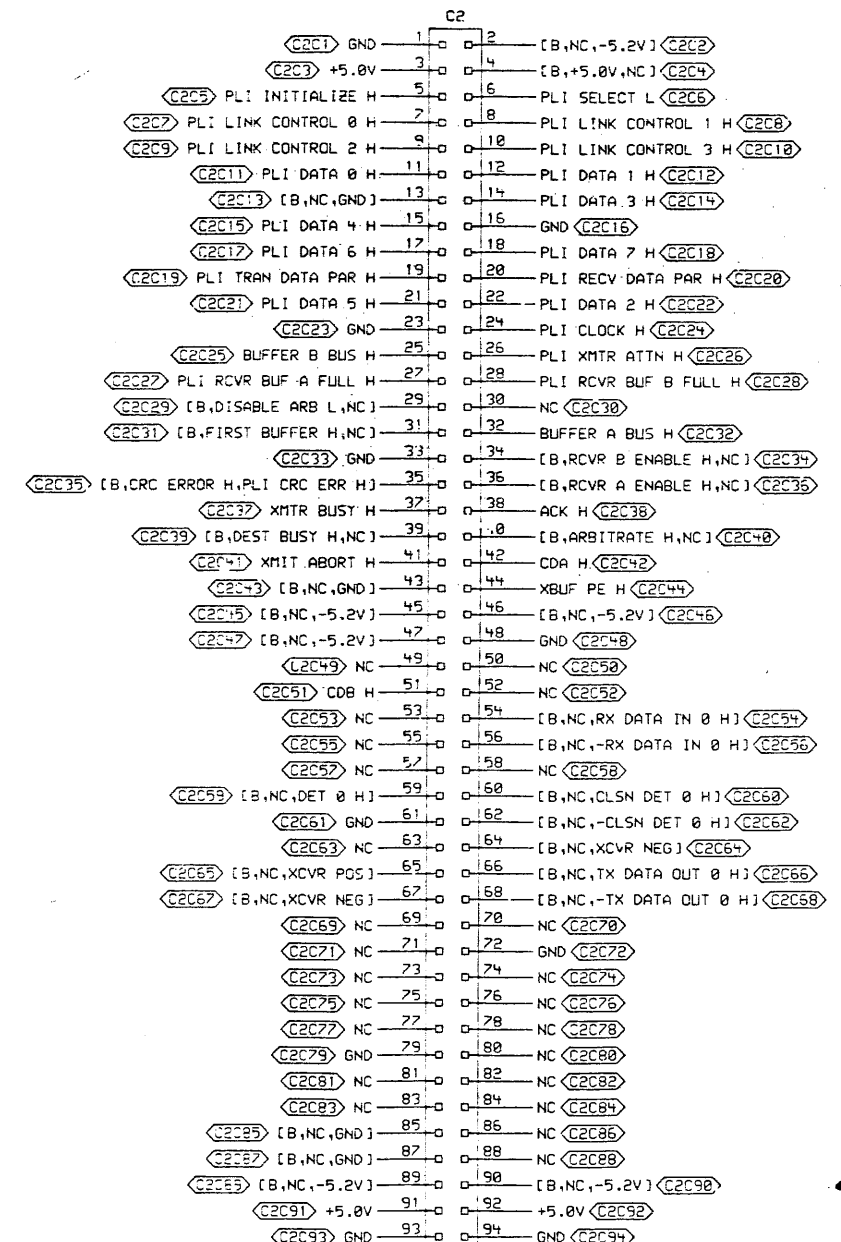
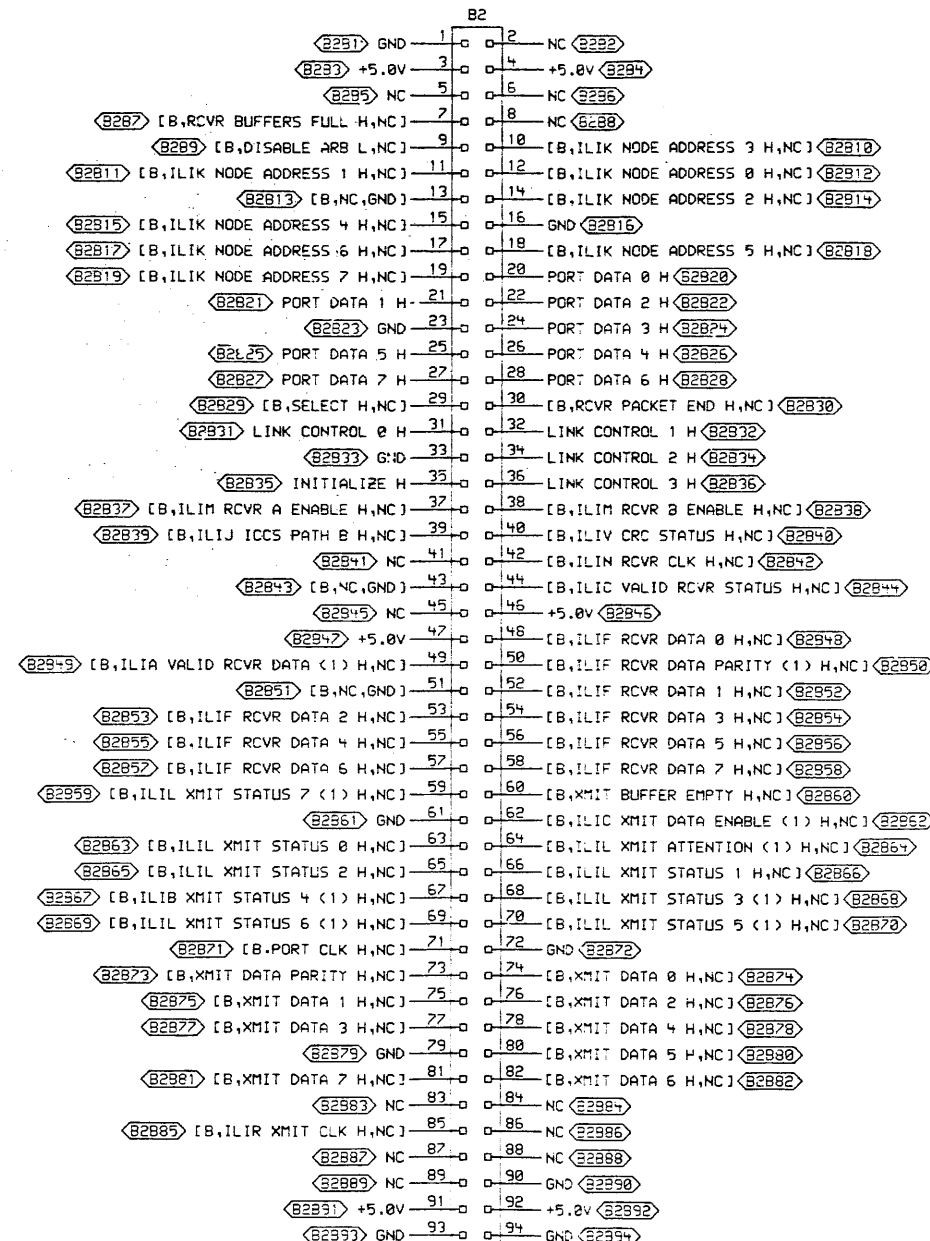
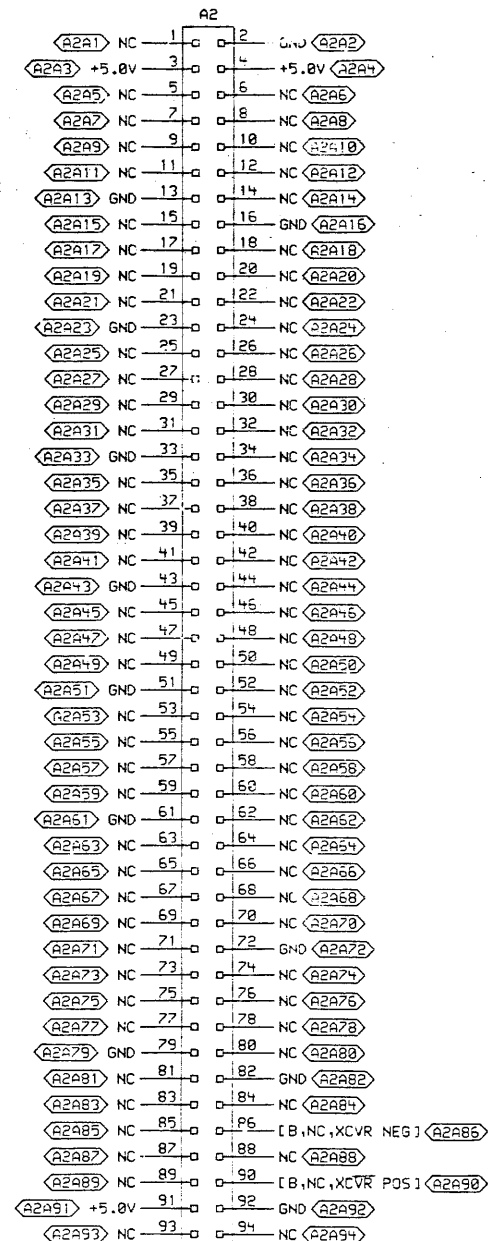


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REVISIONS	CHK	CHANGE NO.	REV

digital	DATE	ENG.	DATE	TITLE:
	10-JUL-84	R. J. EICHMANN	10-JUL-84	IPA20-L
CHK'D	DATE	BOARD LOCATION:	BACKPLANE INT CONN	
D. DELLORCO	10-JUL-84	SHEET 2 OF 5		
FIRST USED ON OPTION MODEL: IPA20-L			SIZE	CODE
			D	CS
			NUMBER	REV.
			5414793-0-1	A

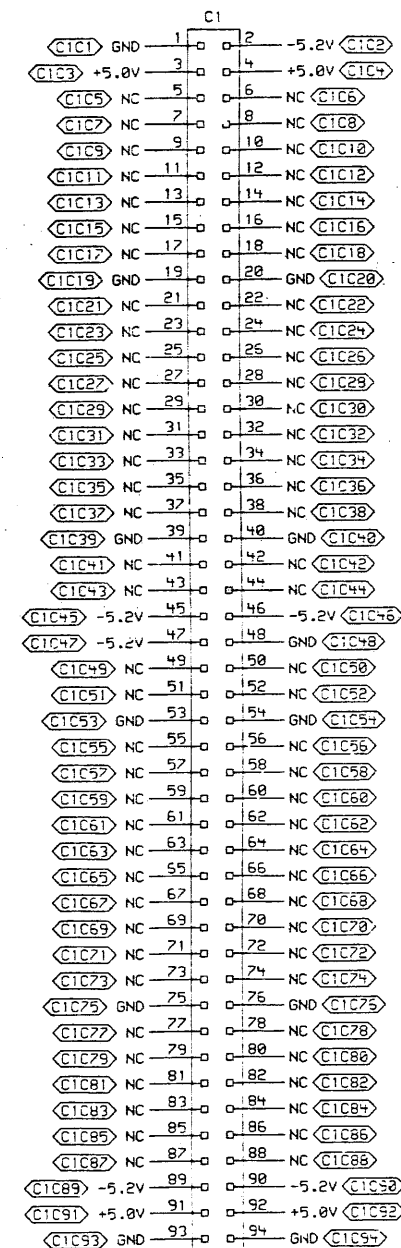
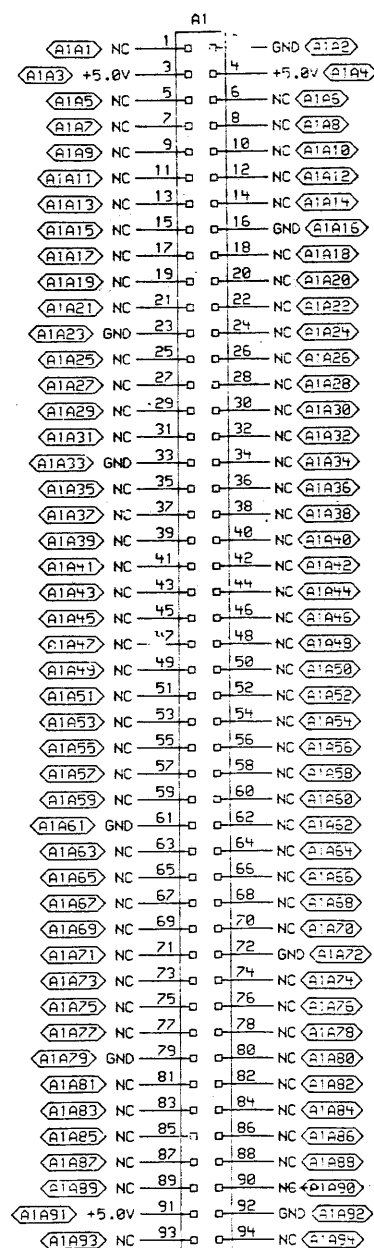
L0109 (PILA) SIGNALS FOR SLOT 2 (B FIELD #1)
L0072 (NIA) SIGNALS FOR SLOT 2 (B FIELD #2)



REVISIONS
CHK CHANGE NO. IREV

DATE ENG. 10-JUL-84 R.J. EICHMANN
DATE 10-JUL-84
TITLE: IPA20-L
BACKPLANE INT CONN
SIZE CODE NUMBER REV.
D CS 5414793-0-1 A

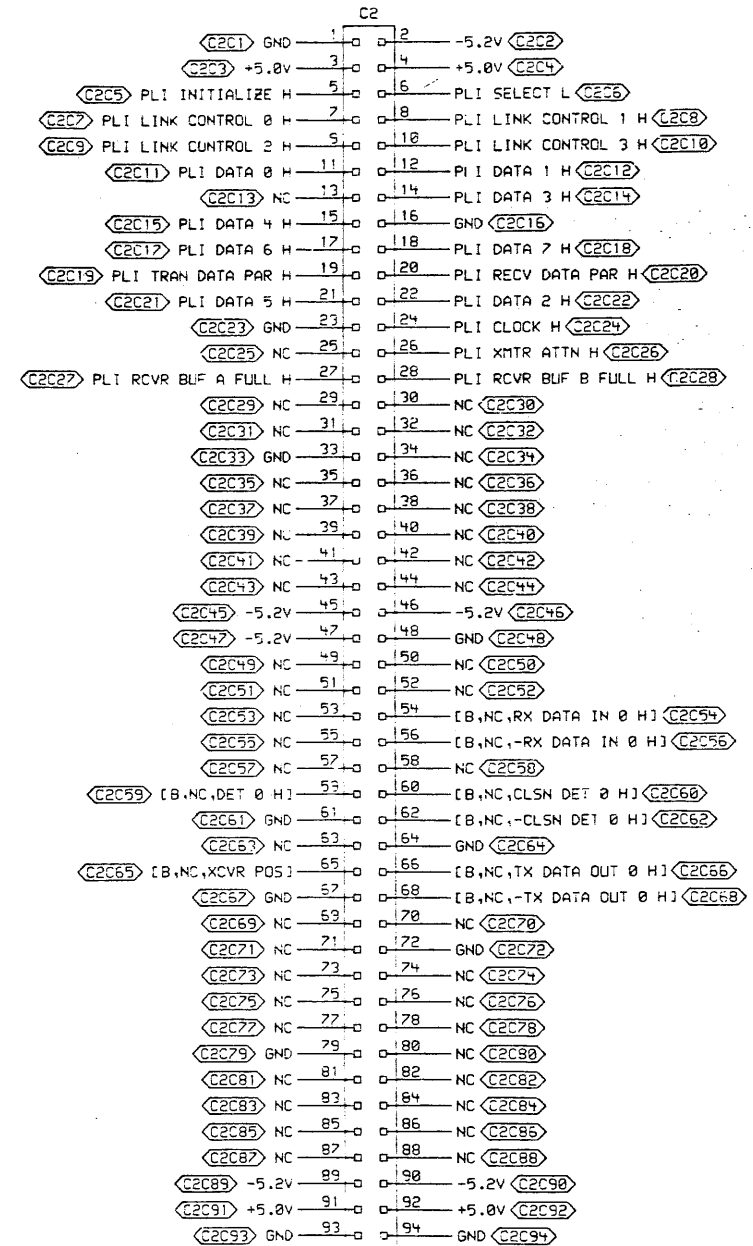
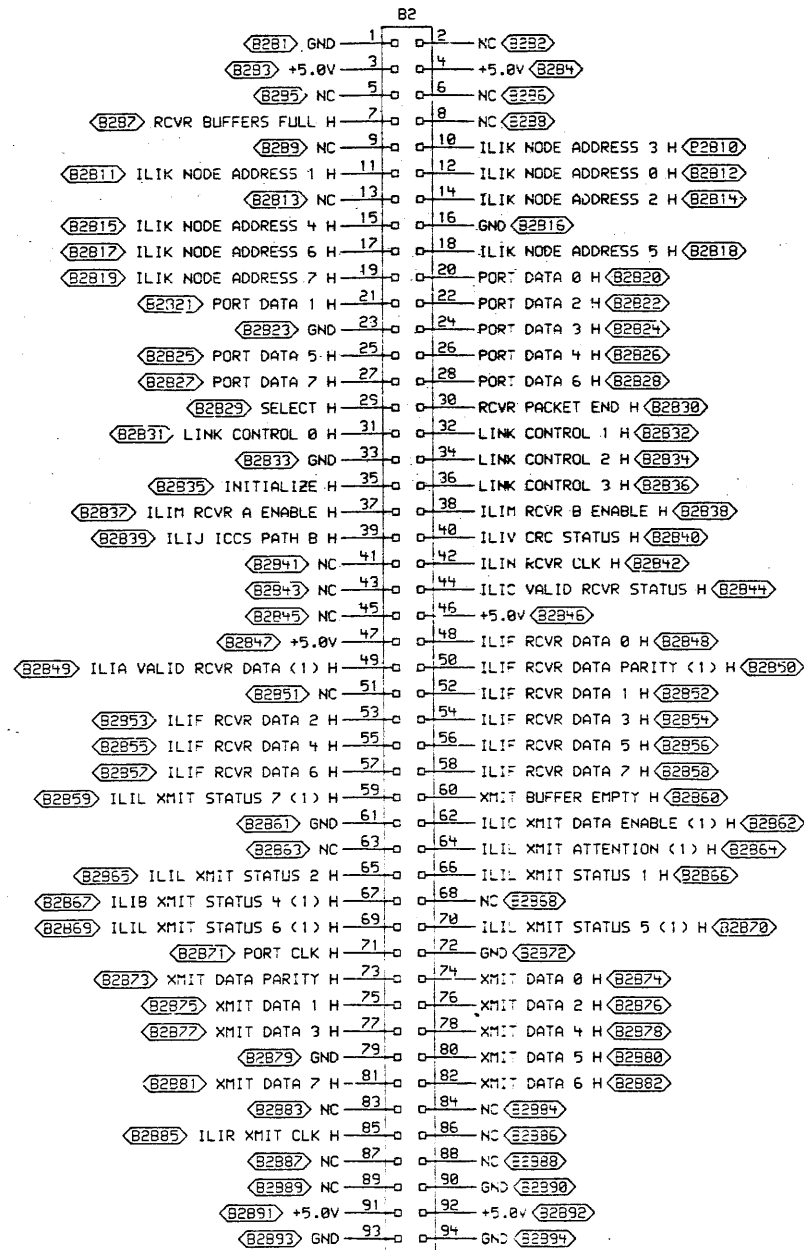
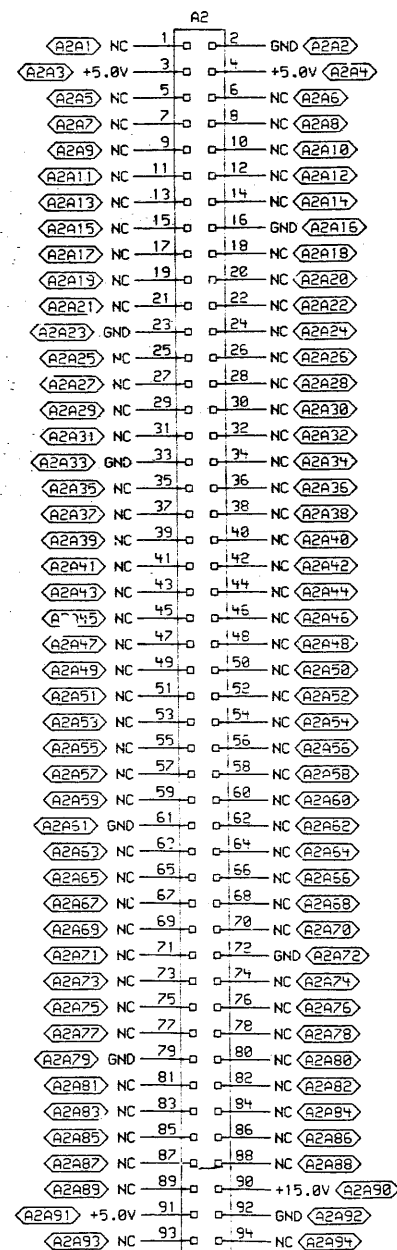
IPA20-L SLOT 1 BACKPANEL CONNECTIONS

[illegible]

REVISIONS	
CHANGE NO.	REV

digital	DATE	ENG.	DATE	TITLE:			
	10-JUL-84	R.J.EICHMANN	10-JUL-84	IPA20-L			
CHK'D D. DELLORCO	DATE	BOARD LOCATION:		BACKPLANE INT CONN			
	10-JUL-84	SHEET 4 OF 5					
XTRA: (EICHMANN) BKPSL: DRJ 10-JUL-84 09:12 NEXT HIGHER ASSEMBLY:				SIZE	CODE	NUMBER	REV.
FIRST USED ON OPTION: MODEL: IPA20-L IPA20-L				D	CS	5414793-0-1	A

IPA20-L SLOT 2 BACKPANEL CONNECTIONS



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REVISIONS	CHK	CHANGE NO.	REV

digital

DATE: 10-JUL-84
 ENG: R.J. EICHMANN
 DATE: 10-JUL-84
 BOARD LOCATION: 5 OF 5
 XTRA: (EICHMANN)BKP5L2.DRW 110-33-09:13 NEXT HIGHER ASSEMBLY: IPA20-L

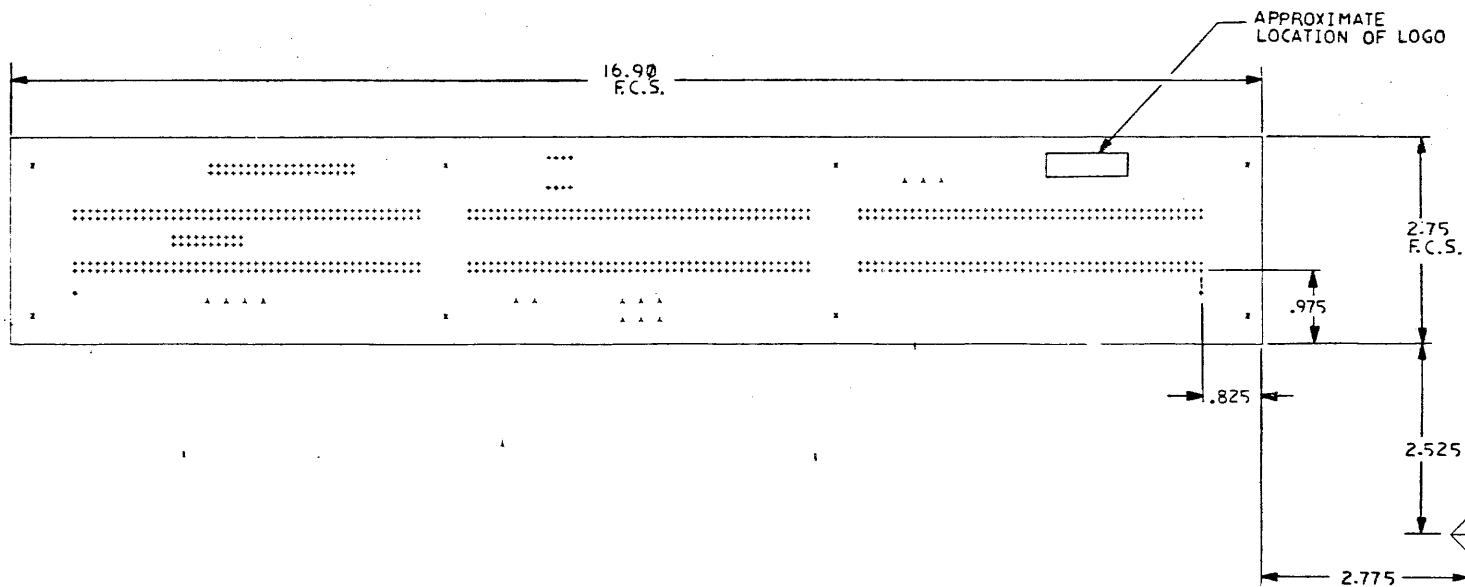
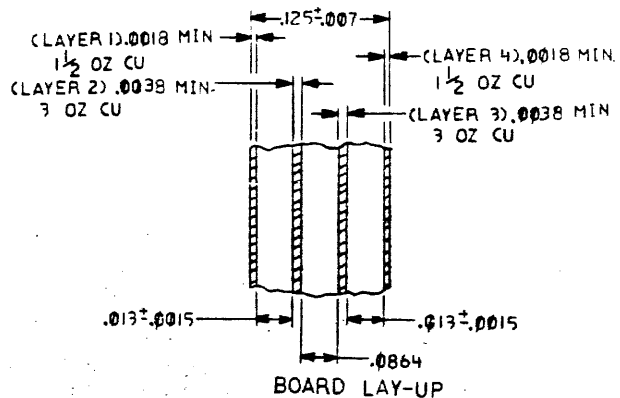
TITLE: IPA20-L BACKPLANE INT. CONN

SIZE	CODE	NUMBER	REV.
D	CS	5414733-0-1	A

MRO 1

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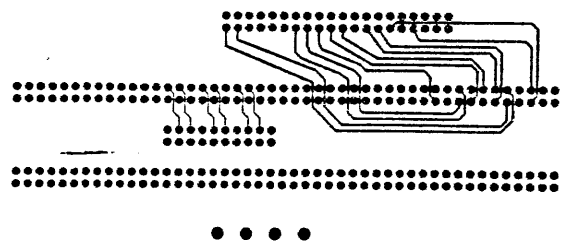
VIEWS FROM SIDE 1
COMPONENT SIDE



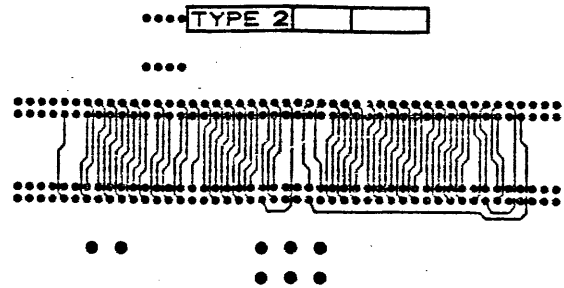
FOR HOLE TOLERANCES USE DEC STD 176										DESIGN INFORMATION		FABRICATION INFORMATION		TOLERANCES	
SYMBOL										CIRCUIT SIZE: X 16.90 Y 2.75 INCHES		FABRICATE BOARD PCB () AS SHOWN		INCHES UNLESS SPECIFIED	
FIN HOLE SIZE										CIRCUIT TYPE: APE () PTH () ML ()		SOLDER MASK, SIDE 1 () SIDE 2 () NONE ()		.XXX ± .010 ANGLES	
PLATED										CIRCUIT H015X15 ()				.XX ± .020 10 DEG 30 MIN	
NON PLATED										TECHNOLOGY: S0 () H012X13 () H20 () OTHER () MSL		SPECIFICATIONS AND STANDARDS:		.X ± .100	
QTY.										UL REQUIREMENTS LPWR () HPWR ()		MATERIALS AND WORKMANSHIP FOR ALL FABRICATED PRINTED WIRING		SIGNATURES	
OFF GRD HOLE										CIRCUIT OUTLINE & FINGER DETAIL () AS SHOWN		BOARDS MUST MEET OR EXCEED THE REQUIREMENTS OF DEC STD 176.		DATE	
DRILL SIZE										LAYER CONSTRUCTION PER () AS SHOWN		SPECIAL NOTES:		CHK'D: [Signature] 9/1/83	
NOTE: ALL HOLE LOCATIONS ARE DESIGNED ON .025 GRID INCREMENTS FROM ORIGIN UNLESS SYMBOL IS CIRCLED.										ARTWORK LAYOUT: MANUAL () CAD ()				MECH ENG: [Signature] 5/24/82	
										ENG SPECIAL FEATURES:				PROD ENG: [Signature] 8/28/82	
										SPECIAL NOTES:				MFG ENG: [Signature] 10/1/82	
														SCALE: 1/1	
														SHEET 1 OF 5	
														TDP DOCUMENT NO: D-DD-5014792-0	
														TITLE: DRILL & ETCH DRAWING	
														SIZE CODE NUMBER REV	
														D MD5014792-0-0 A	
														ETCH REV: C	

U
H
F
E
D
C
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A

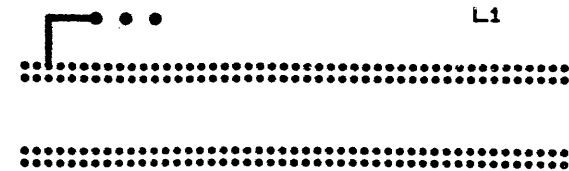
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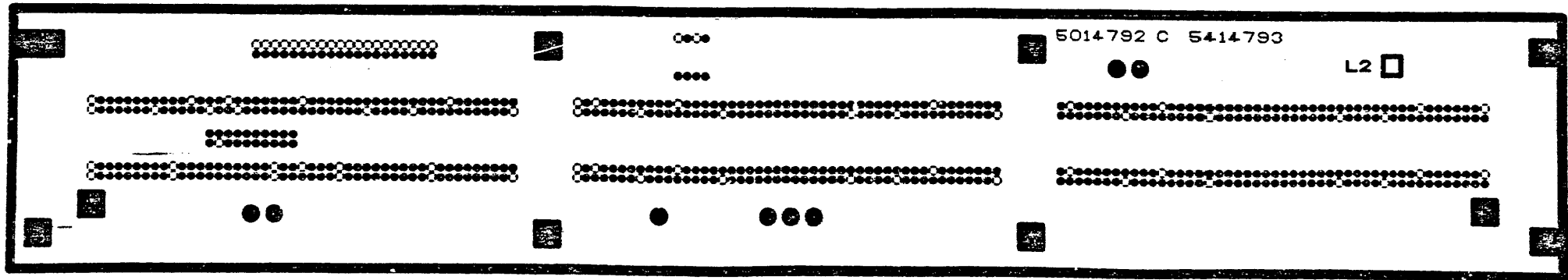


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PROJ. ENG.		
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SAT.	271	
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TITLE		
DRILL & ETCH DRAWING		
NUMBER		
REV		
EFC 2014/01/01		
J		

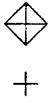
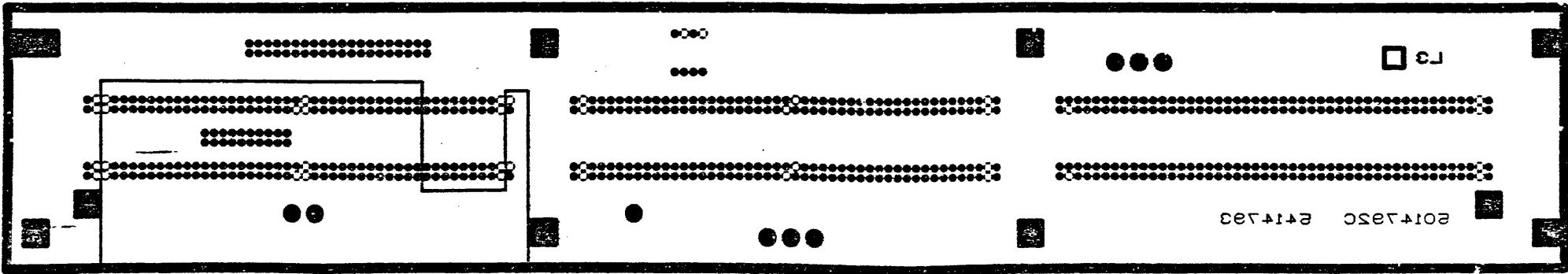
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SIGNATURES	DATE	TITLE
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MECH. ENG.		DRILL & ETCH DRAWING
PROJ. ENG.		
SCALE	3 OF 5	SIZE CODE
SHT.		NUMBER
REV		REV
E		E
J		J

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PROJ. ENG.	PROJ. ENG.	DRILL & ETCH DRAWING	
SCALE	2 1/1	SIZE CODE	
SHT. 4 OF 5	NUMBER	REV	
TOP DOCUMENT: 00-54752-1			504792-0-0

A B C D E F H J

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			ECO NUMBER	- 1
D-UA-5415695-0-0	1	5415695-00	MODULE REVISION	A1 A2
K-PL-5415695-0-DBP	1		CURRENT LIMITER	A B
D-CS-5415695-0-1	1		PARTS LIST, 5415695	A B
A-SP-5415695-0-DBF	6		CURRENT LIMITER	A A
			NI CURRENT LIMITER ENG. SPEC.	A A
K-PC-5415695-0-DBG	-		GEMS DESIGN DATA BASE	A A
B-DD-5015694-0	1		DRAWING DIRECTORY, 5015694	REF REF

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REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. D. DELLORCO	DATE 15-JAN-85	ENG. <i>[Signature]</i>	DATE 16-JAN-85
	CHK'D <i>[Signature]</i>	DATE 15-JAN-85	BOARD LOCATION: N/A	
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FIRST USED ON OPTION/MODEL:		N/A		

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SIZE CODE	NUMBER
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REV.	B

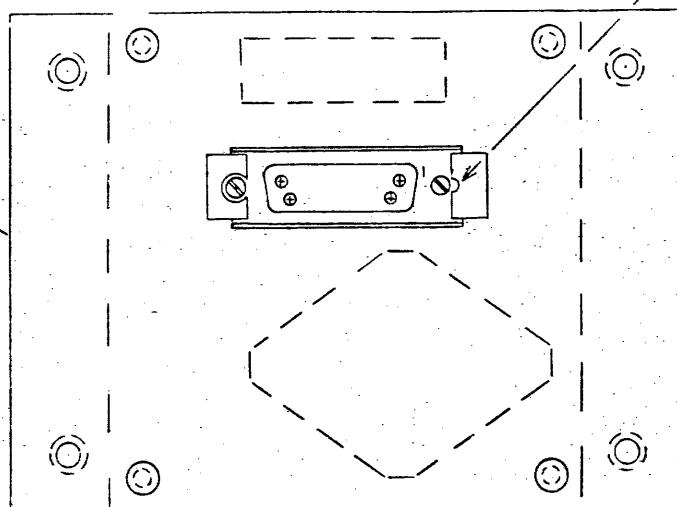
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LEGEND		
PART NO.	VARIATION	REV
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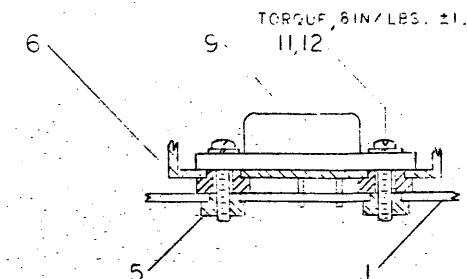
COMPONENT SIDE VIEW

VIEW-B

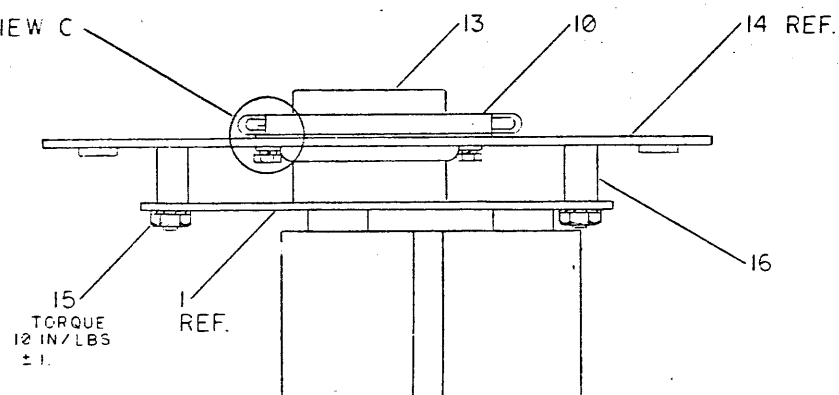
SMALL NOTCH ON PIN 1
END OF CCNN.



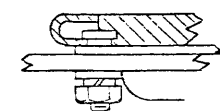
VIEW A-A



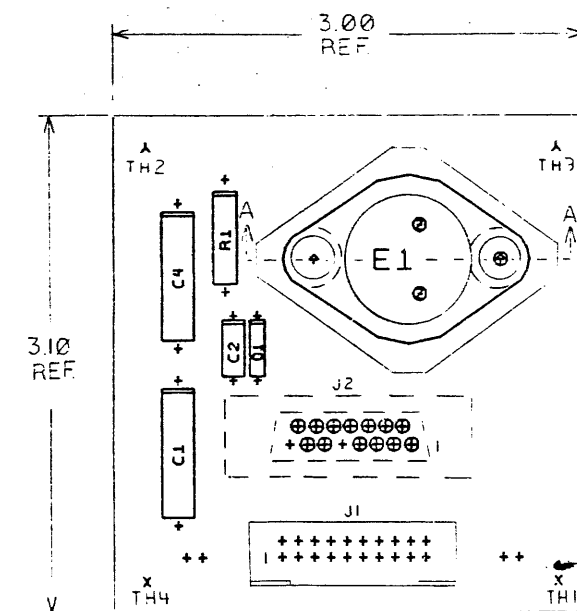
SEE VIEW C



VIEW-C



POST, FLAT WASHER,
LOCK WASHER, AND
NUT, ARE PART OF
ITEM 10.
TORQUE 5 IN/LBS. ±1.



NOTES: 1. STEP AND REPEAT CODE 2AC80.
2. ITEM 13, AND ITEM 14, ASSEMBLED
AFTER FLOW SOLDER SEE VIEWS
B AND C.

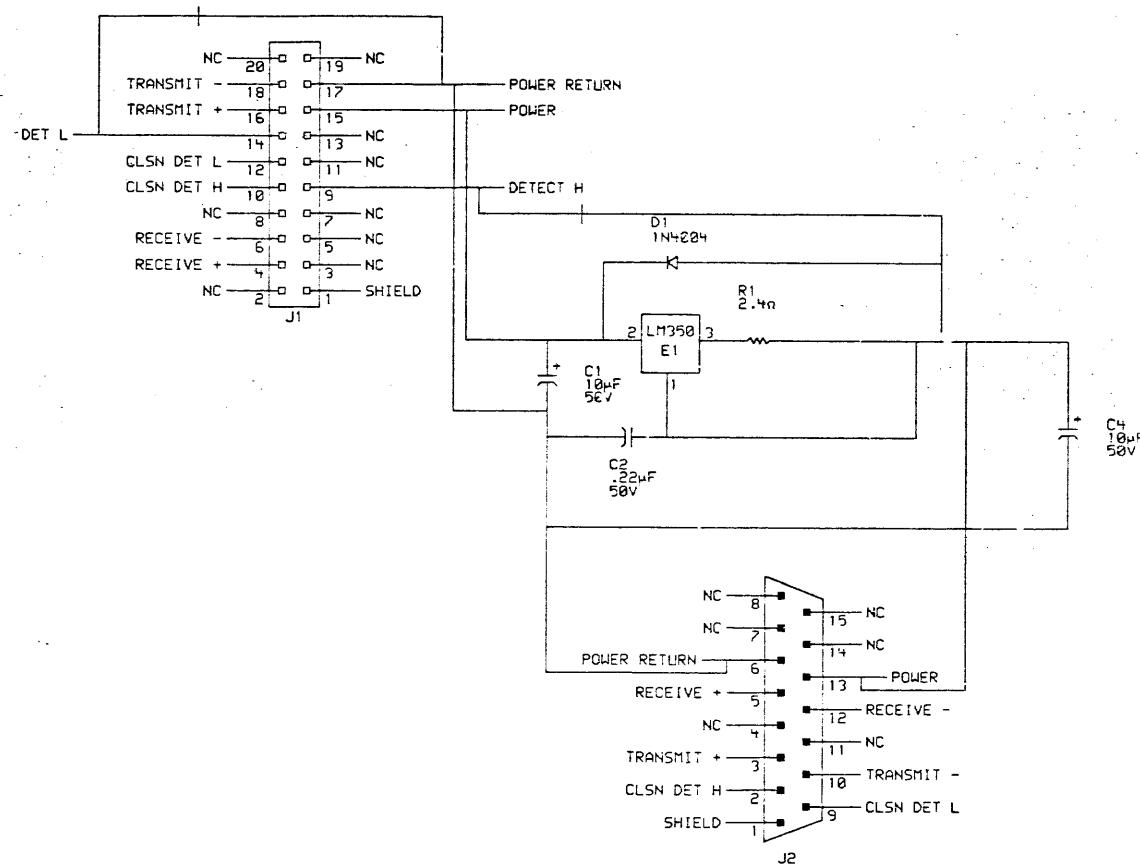
STEP 5 → Y AXIS 3.10 STEP 3 TIMES
REPEAT → X AXIS 3.00 STEP 5 TIMES

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2	2	B
3	3	C
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8	8	H
9	9	I
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405	405	OO
406	406	OP
407	407	OQ
408	408	OR

LINE ITEM	TCP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
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1	1	D-MD-5015694-0-0	5015694-01	DRILL AND ETCH FOR 54-15695-00	1	
2	2		1000070-00	10 MFD 50V+100-10% AL EL	2	C1,C4
3	3		1017897-01	.22 MFD 50V +80-20% CER	1	C2
4	4		1105796-00	PIV= 400 IO= 1.00A 1N4004 DO-41	1	D1
5	5		1214789-00	INSERT,THREAD	2	
6	6		1213426-03	HEAT SINK,TO-3 1.880X01.4	1	
7	7		1213477-06	PCB HEADER 20PIN(2X10).100CC STR	1	J1
8	8		1320740-01	2.40 3.0 W 1.0 % WW	1	R1
9	9		1916580-01	A 350 VOLT REG,VAR 2V	1	E1
10	10		1218489-00	A CONN,D SUB 15PIN LATCH KIT	1	
11	11		9006024-01	SCREW,MACH PAN PHIL 6-	2	
12	12		9007801-00	WASHER,HELICAL SPLIT SST	2	
13	13		1220350-01	A CONN,D SUB 15SKT ASSY STR TIN PL	1	J2
14	14		7429724-01	PANEL,I/O INTERFACE	1	
15	15		9006560-00	A NUT,HEX EXT TOOTH LCKWSHR 6-32	4	
16	16		9006801-00	A SPACER,CLEAR HOLE HEX ALUM 6	4	

REVISION HISTORY		BASIC PART NO: 5415695		DRN: J,LENT		DATE: 20-OCT-82		D I G I T A L	
ENG	ECC NUMBER	REV	SECTION A OF A	CHK'D: PASCO		DATE: 26-SEP-83		TITLE PARTS LIST	
---	INITIAL	A	SECTION VARIATION INDEX	DES.ENG: J,CROSS		DATE: 9-DEC-83		DOCUMENT NUMBER	
PC	5415695-MR001	B	[A] 00	RESP.ENG.: J,CROSS		DATE: 9-DEC-83		SIZE!CODE! NUMBER	
			[B]	MFG.ENG.: M,WARRIEN		DATE: 28-MAR-84		RELEASE DATE: 15-JAN-85	
			[C]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
			[D]	D-UA-5415695-0-0		D-DD-5415695-0		Z8529B,PLS	
			[E]					EDIT #	
			[F]					15	
			[G]						
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REVISIONS	
CHK	CHANGE NO. REV

digital	DATE	09-FEB-84	ENG	6.2m 84	DATE	09-FEB-84	TITLE	CURRENT LIMITER
	CHK'D	13 FEB 84	DATE	13 FEB 84	BOARD LOCATION			
SUDCOM: (BLEN, ECO) ETH. DRW		105-FEB-84 29:13		NEXT HIGHER ASSEMBLY:		SIZE	CODE	NUMBER
FIRST USED ON OPTION/MODEL:		D-DD-5415695-00		D		CS	5415695-0-1	REV.
								A

DATE	ECO #	ORIGINATOR	APPROVED	REV
01-Jun-1984	Init.	John Cross	John Tivnan	A

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Engineer

Date

File ID: 74

DOCUMENT NUMBER			
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MRO

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1 GENERAL

The NI Current Limiter provides a limit to the output current available from the protected port. The circuit will limit the output current to 600 milliamperes, maximum.

No fuse protection is required because the circuit is designed to be current-limiting.

1.1 REFERENCED DOCUMENTS

EL-00030-00	DEC STD 030 Module Manufacturing Standard
EL-00102-00	DEC STD 102 Environmental Standard For Computers and Peripherals
EL-00119-00	DEC STD 119 Digital Product Safety
EL-00186-00	DEC STD 186 Signal Integrity

2 ELECTRICAL SPECIFICATIONS

2.1 POWER SOURCE

The circuit will operate from a 15 V, 2 ampere dc power source.

2.2 INPUT VOLTAGE

+15 (+ 2%) Vdc, ripple and noise 5% maximum

2.3 OUTPUT VOLTAGE

+15.3 to +11.4 Vdc, ripple and noise 5% maximum

2.4 OUTPUT CURRENT

500 milliamperes, maximum

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2.5 EXTERNAL PROTECTION

Because the short circuit current will be limited to 600 milliamperes, maximum, and the components will not exceed safe temperatures under operating or overload conditions, the current limiter requires no external protection.

2.6 CONNECTIONS

2.6.1 Input J1 20-Pin Connector Berg Type

Pin	Function	Pin	Function
1	NC	11	NC
2	NC	12	CLSN DET L
3	NC	13	NC
4	RECEIVE +	14	DETECT L
5	NC	15	POWER +15V
6	RECEIVE -	16	TRANSMIT +
7	NC	17	POWER RTN
8	NC	18	TRANSMIT -
9	DETECT H	19	NC
10	CLSN DET H	20	NC

2.6.2 Output J2 15-Pin Connector D Shell (Type RS-232)

Pin	Function	Pin	Function
1	SHIELD	8	NC
2	CLSN DET H	9	CLSN DET L
3	TRANSMIT +	10	TRANSMIT -
4	NC	11	NC
5	RECEIVE +	12	RECEIVE -
6	POWER RTN	13	POWER +12
7	NC	14	NC
		15	NC

2.6.3 Internally Commoned

All signals with same name
Pin 14 J1 to Pin 17 J1 to Pin 6 J2 (Power RTN Layer)
Pin 9 J1 to Pin 13 J2
Pin 1 J1 to Pin 1 J2 to Mounting Panel (GND Layer)

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MRO

3 MECHANICAL SPECIFICATIONS

3.1 SIZE

Printed circuit board mounted on panel 4.2 x 3.1 inches.

3.2 MOUNTING

The panel will be mounted by four 6-32 inserts, one in each corner. Mounting dimensions are approximately 2.35 x 3.55 in. for mounting on 74-28312 interface bracket.

3.3 CONNECTIONS

The circuit will be connected to the power source and I/O bulkhead via J1, 20-pin, Berg type header connector. The output will be connected to J2, 15-pin D Shell connector (Type RS-232).

3.4 WEIGHT

6.6 ounce typical.

3.5 COOLING

- Natural convection.
- Total dissipation during normal operation - 2 watts typical.
- Total dissipation during short circuit condition - 9.5 watts maximum.

3.6 TEMPERATURE RANGE

+10°C to +50°C (+50°F to +122°F) per DEC STD 102 for Class B environment as cooled by internal cabinet air.

3.7 ALTITUDE

8000 feet operate with maximum allowable temperature reduced by 1°F for each 1000 feet elevation.

DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV
K	SP	5415695-0-DBF	A
PAGE		5	OF 6

3.8 VIBRATION

Sinusoidal vibration:

5-22 HZ	0.010 inch DA
22-500 HZ	0.25 GPK
500-22 HZ	0.25 GPK
22-5 HZ	0.010 inch DA

Sweep rate 1 octave/min. Per DEC STD 102 Class B.

3.9 MECHANICAL SHOCK

40 GPK Per DEC STD 102 Class B.

4 RELIABILITY

4.1 MBTF

Greater than 1,000,000 hour for ground fixed environment per MIL-HDBK-217D.

5 SAFETY

The PC board will be Type 1 material.

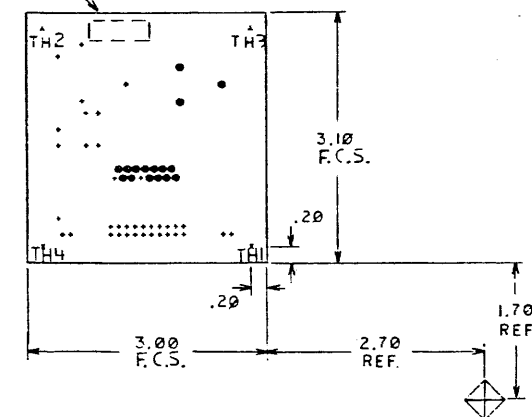
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K	SP	5415695-0-DBF	A
PAGE		6	OF 6

DRAWING NUMBER	PAGE	PART NO.	DESCRIPTION	REVISIONS
			ECO NUMBER	-
		5015694-01	ETCHED CIRCUIT BOARD	B1
D-MD-5015694-0-0	4		DRILL AND ETCH DRAWING	A
D-EC-5015694-0-0	1		ETCH CU" DRAWING	A

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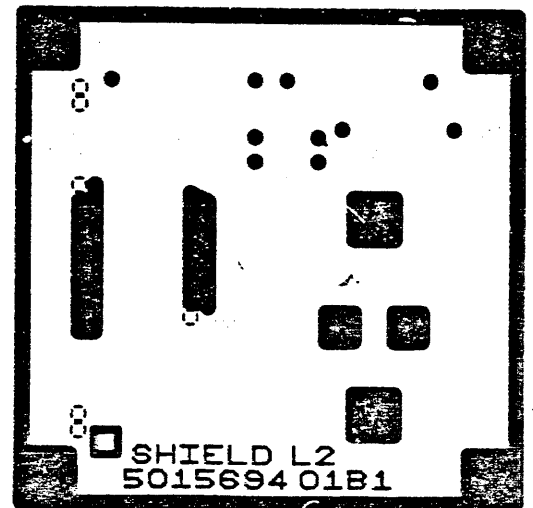
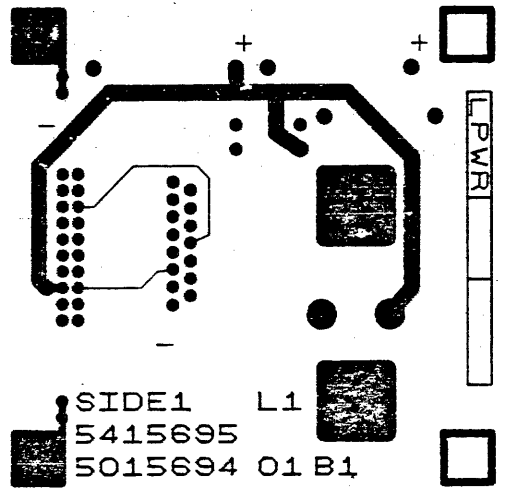
REVISIONS		
CHK	CHANGE NO.	REV

digital	DRN. D. DELLORCO	DATE 02-APR-84	ENG. <i>[Signature]</i>	DATE 02-APR-84	TITLE: DRAWING DIRECTORY 5015694
	CHK'D. <i>[Signature]</i>	DATE 02-APR-84	BOARD LOCATION: SHEET 1 OF 1		
DSK:15694.T2P[4,36]			02-APR-84 11:36		SIZE CODE NUMBER REV.
FIRST USED ON OPTION:MODEL: "			D-DD-5415695-0		D DD 5015694-0 A



TITLE: DRILL AND ETCH DRAWING			
SIZE	CODE	NUMBER	REV
D	MD	5215694-0-0	A
94-0-0		ETCH REV: BI	

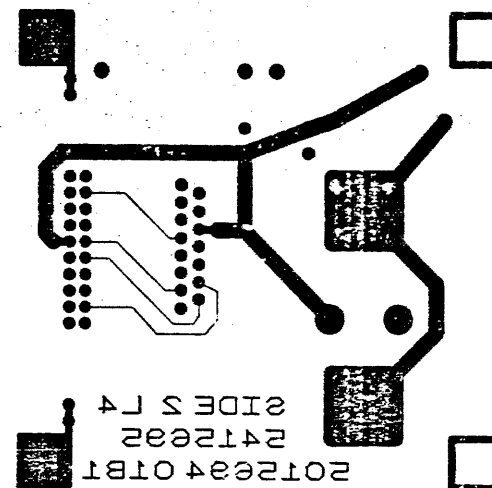
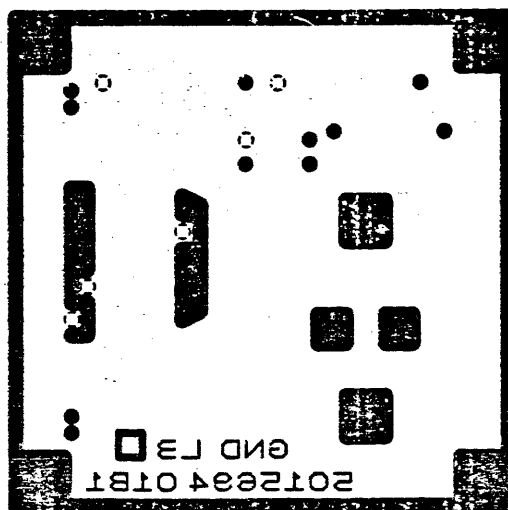
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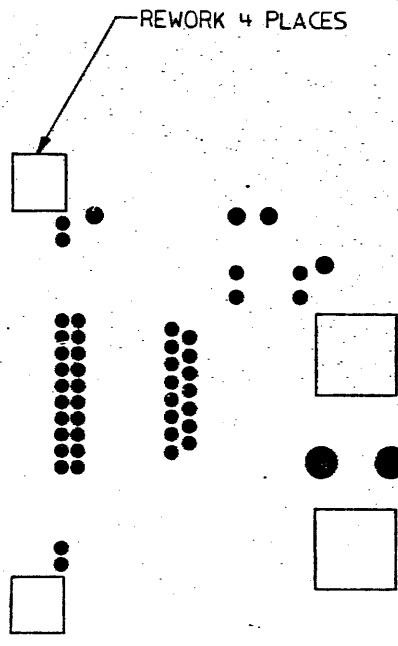
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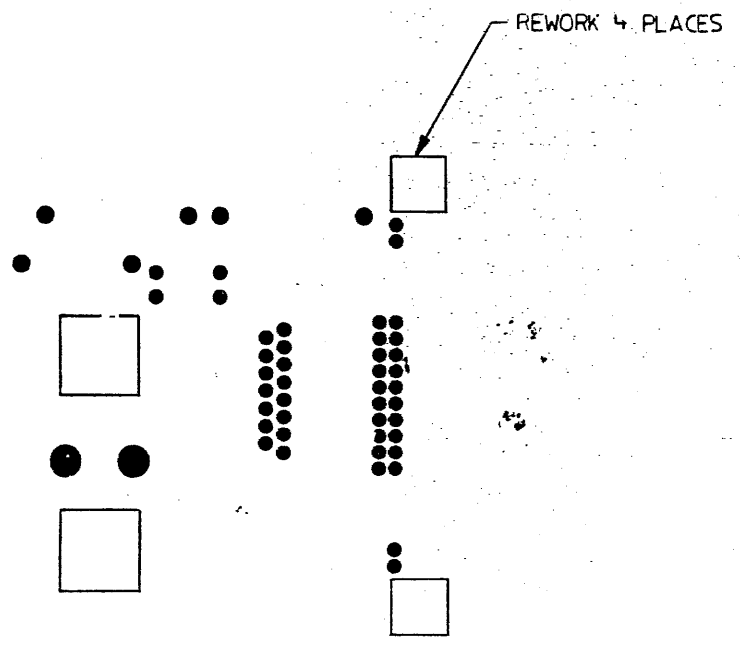
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CHK	CHANGE NO	REV

TITLE DRILL & ETCH DRAWING		SIZE CODE D MD	NUMBER 5015694-0-0	REV. A
SCALE 2/1	SHEET 3	OF 4	DIST.	MR

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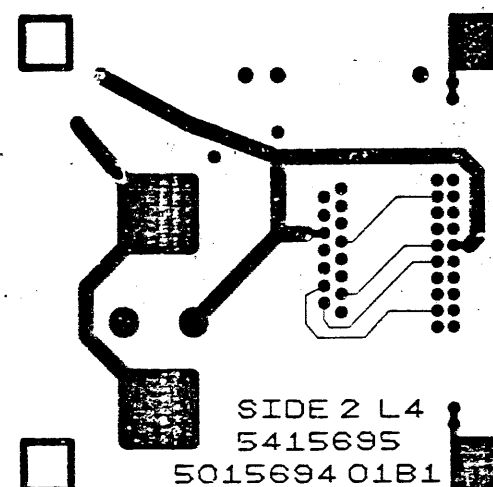
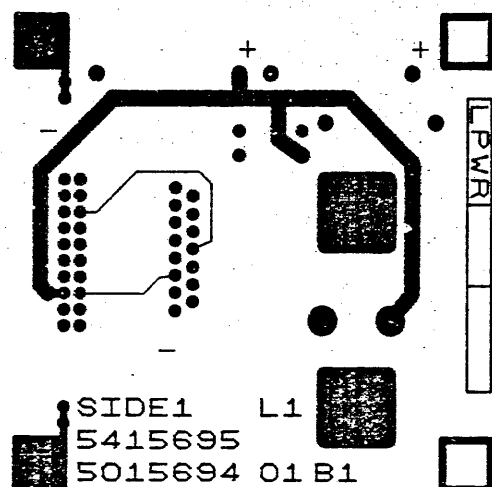


SOLDER MASK REWORK
SIDE 1



SOLDER MASK REWORK
SIDE 2

REVISIONS		
CHK	CHANGE NO.	REV



NOTES:

CHK	CHANGE NO	REV
64	RELEASED AT	A

SIGNATURES		DATE		digital			
DRN. <i>A. Smith</i>		<i>12/20/83</i>					
CHK'D. <i>J. Smith</i>							
ENG. <i>J. Smith</i>		<i>12/20/83</i>		TITLE ETCH CUT DRAWING			
PROJ. ENG. <i>J. Smith</i>		<i>12/20/83</i>					
PROD. <i>J. Smith</i>		<i>12/20/83</i>					
SCALE 2/1		SIZE CODE					
SHT. 1 OF 1		0 EC		NUMBER 5015694-0-0		REV A	
ETCH REVEL FIRST USED ON VENUS							