

Clock 170 rev.

CAL DATA 1 COMPUTER
(P/N C85400100)

DRAWING PACKAGE
C21518004-X6







DOCUMENT C21518004
Revision X6
September 1975

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REVISIONS

<u>Revision</u>	<u>Date</u>	<u>Approval</u>	<u>Description</u>
X1	2-74		Preliminary edition
X2	9-74		Release edition. Added introduction material.
X3	10-74		Title change from CDP-XI/00 Processor, to Cal Data 1 Computer
X4	11-74		Removed Theory of Operation and CPU Engine 1 and 2 from package. Added proprietary notice.
X5	2-75		Added 12-Slot Backplane and 18-Slot Backplane (C81080341) to package
X6	9-75		Format change from B to A size. Added revision sheet and document list price change from \$18.60 to \$10.65.

INTRODUCTION

This volume contains engineering drawings for the Cal Data 1 Computer, part number C85400100.

Table 1 lists the engineering drawings contained in this document. Material parts lists are included with each assembly drawing.

Components are identified, where applicable, by both the suggested manufacturer's part number and the Cal Data part number. In general, commercially available parts conform to specifications published by the manufacturer; however, Cal Data component specifications dictate the performance of all component parts used.

Schematics use industry standard designations where applicable (e.g., 7401, 2N5769). These designations are for convenience only and do not necessarily imply that these specific parts are used. The parts lists contain the accurate identification of individual parts.

Table 1. Drawings in this Document

Number	Title
C85400100	Computer Assembly, Cal Data 1
C22285009	Configuration Specification, Cal Data 1 Computer Assembly
C81080620	Board Assembly, 12-Slot Backplane
C21080620	Board Schematic, 12-Slot Backplane
C81080340	Board Assembly, 18-Slot Backplane
C21080340	Board Schematic, 18-Slot Backplane
C81080341	Board Assembly, 18-Slot Backplane
C85300046	Cable Assembly, Fan
C85300057	Power Harness
C85300208	Power Harness
C81080130	Board Assembly, Processor Interconnect
C21080130	Board Schematic, Processor Interconnect
C81080050	Board Assembly, Terminator
C21080050	Board Schematic, Terminator

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SHEET NUMBERS

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01	01	01	01	01	01	01	01	01	01																																												
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

REVISION LOG: REVISIONS TO THIS DOCUMENT WILL BE MAINTAINED ON A PER SHEET BASIS

- 8. ITEMS 9 AND 10 ARE USED WITH BACKPLANE ASSY C81080340 AND C81080341. ITEMS 16 AND 17 ARE USED WITH BACKPLANE ASSY C81080620. ITEMS 7 AND 8 ARE COMMON TO BOTH BACKPLANES.
- 7. QUANTITY OF ITEM 4 MUST BE SELECTED TO AGREE WITH THE BACKPLANE ASSEMBLY:
USE QTY 2 WITH BACKPLANE ASSY'S C81080340 AND C81080341
USE QTY 3 WITH BACKPLANE ASSY C81080620
- 6. HOLES ARE PROVIDED FOR CUSTOMERS USE ONLY TO RETAIN THIS UNIT WITHIN A CABINET. REQUIRED HARDWARE IS NOT A PART OF THIS ASSY.
- 5. CHASSIS SLIDES AND MOUNTING HARDWARE TO BE SHIPPED SEPARATELY FROM UNIT.
- 4. REFERENCE DOCUMENTS:
FOR TEST PROCEDURE SEE C22413017
FOR SHIPPING PREPARATION SEE C22283002
- 3. ITEM 33, BUS GRANT CONTINUITY P.W. BOARD MUST BE INSTALLED IN ALL UNUSED SLOTS OF ROW D STARTING WITH ROW 7 WHEN USING THE C81080340 BACKPLANE AND STARTING WITH ROW 5 WHEN USING THE C81080620 BACKPLANE REGARDLESS OF SYSTEM CONFIGURATION.
- 2. ITEMS ARE SELECTED TO AGREE WITH THE MARKETING CODE AS NOTED ON THE SALES ORDER. FOR CONFIGURATION SPECIFICATION SEE DOCUMENT C22285009.
- 1. MAKE PER CAL DATA SPEC C22270100.

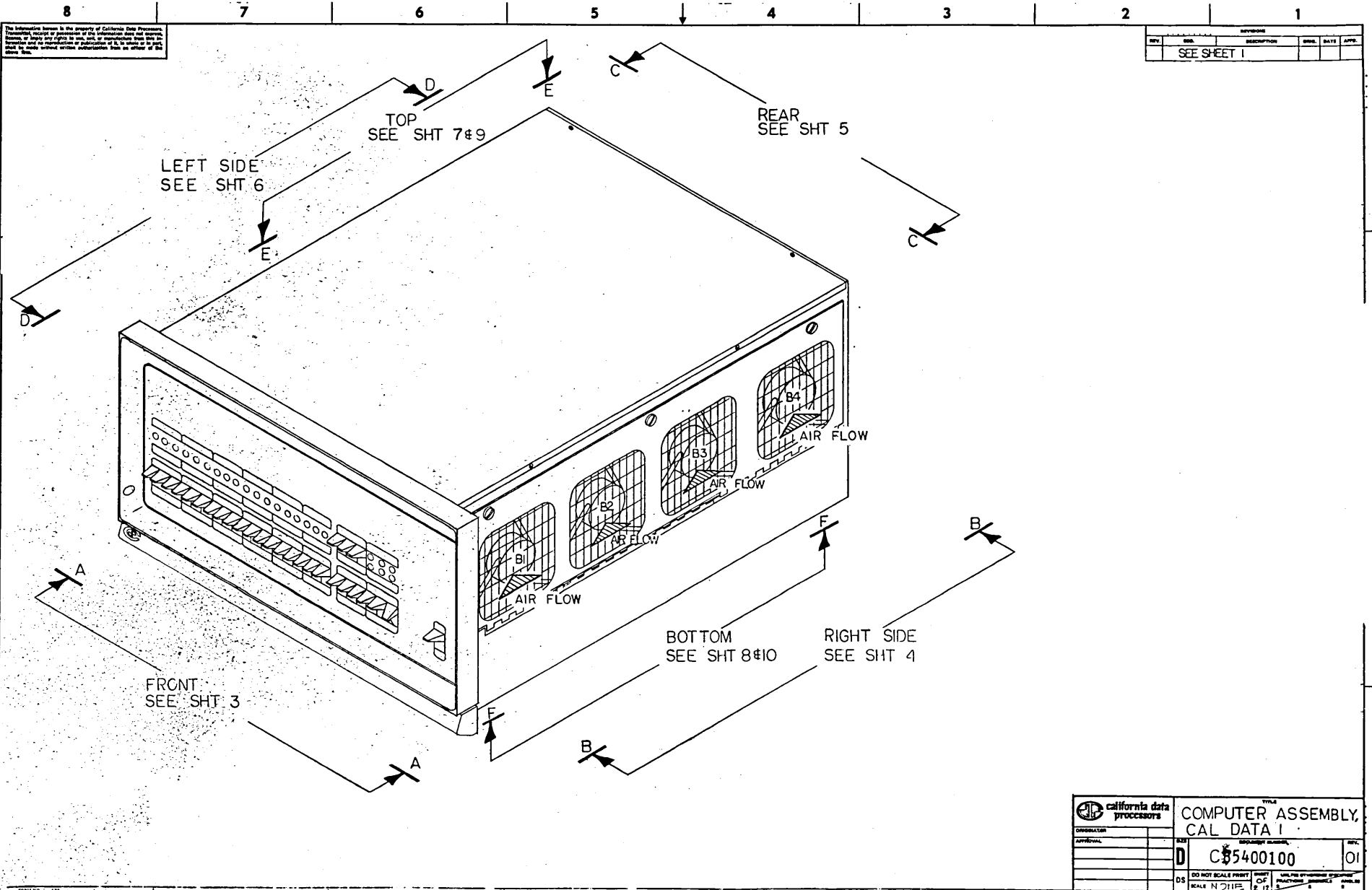
NOTES: UNLESS OTHERWISE SPECIFIED

RELEASE STATUS				REVISIONS			
RELEASE LEVEL	APPROVED	DATE	REV	REV	DESCRIPTION	DATE	APPD
EXPERIMENTAL			01	01	DRN 18500730	CK 12-24-62	
ENGINEERING			02	01	RECORD CHANGE	PLA 1-15-63	
PRODUCTION			03	01	RECORD CHANGE	DA 2-28-63	

FOR PARTS LIST SEE SHEETS 11 AND 12

ITEM	PART NO.	QTY	DESCRIPTION
			COMPUTER ASSEMBLY, CAL DATA I
APPROVED: <i>[Signature]</i> 12-24-62 APPROVED: <i>[Signature]</i> 1-15-63 APPROVED: <i>[Signature]</i> 2-28-63			DOCUMENT NUMBER C85400100
DO NOT SCALE PRINT SCALE: 1/12			SHEET OF 12

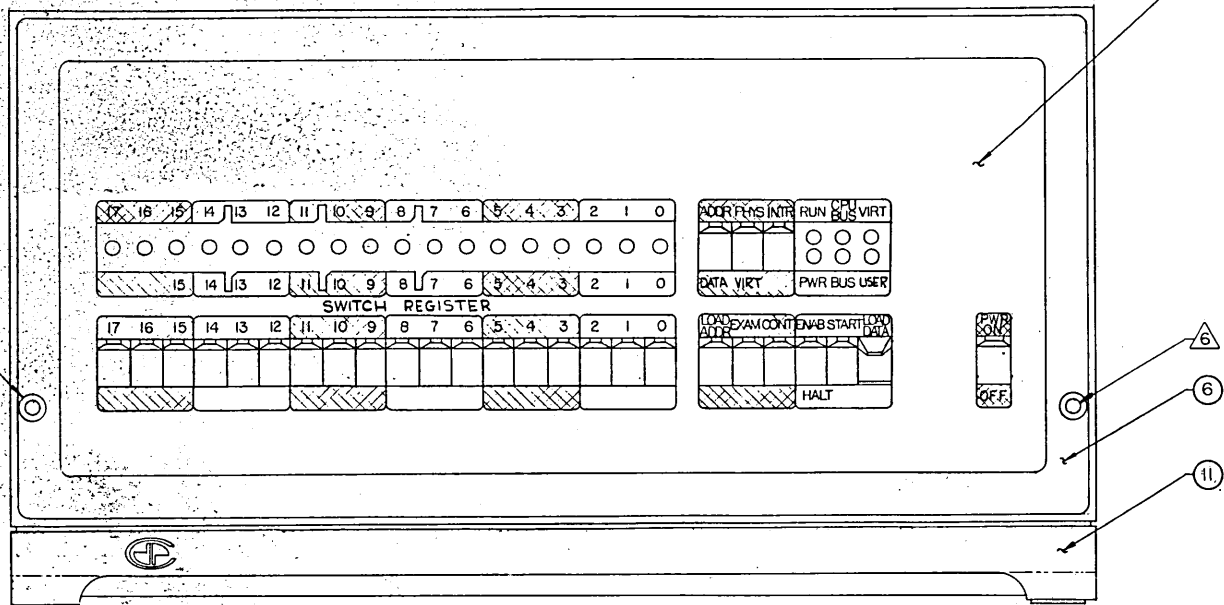
3 PLACE 2 DIG	3 PLACE 3 DIG	ANGLES IN ° W
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california data processors <small>INCORPORATED</small>	MODEL COMPUTER ASSEMBLY, CAL DATA I			REV. 01
	PART NO. C55400100	QUANTITY 1		
DO NOT SCALE PRINT SCALE: N.D.T.T.S.		PART OF 1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	

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REV. 1001
 SEE SHEET 1

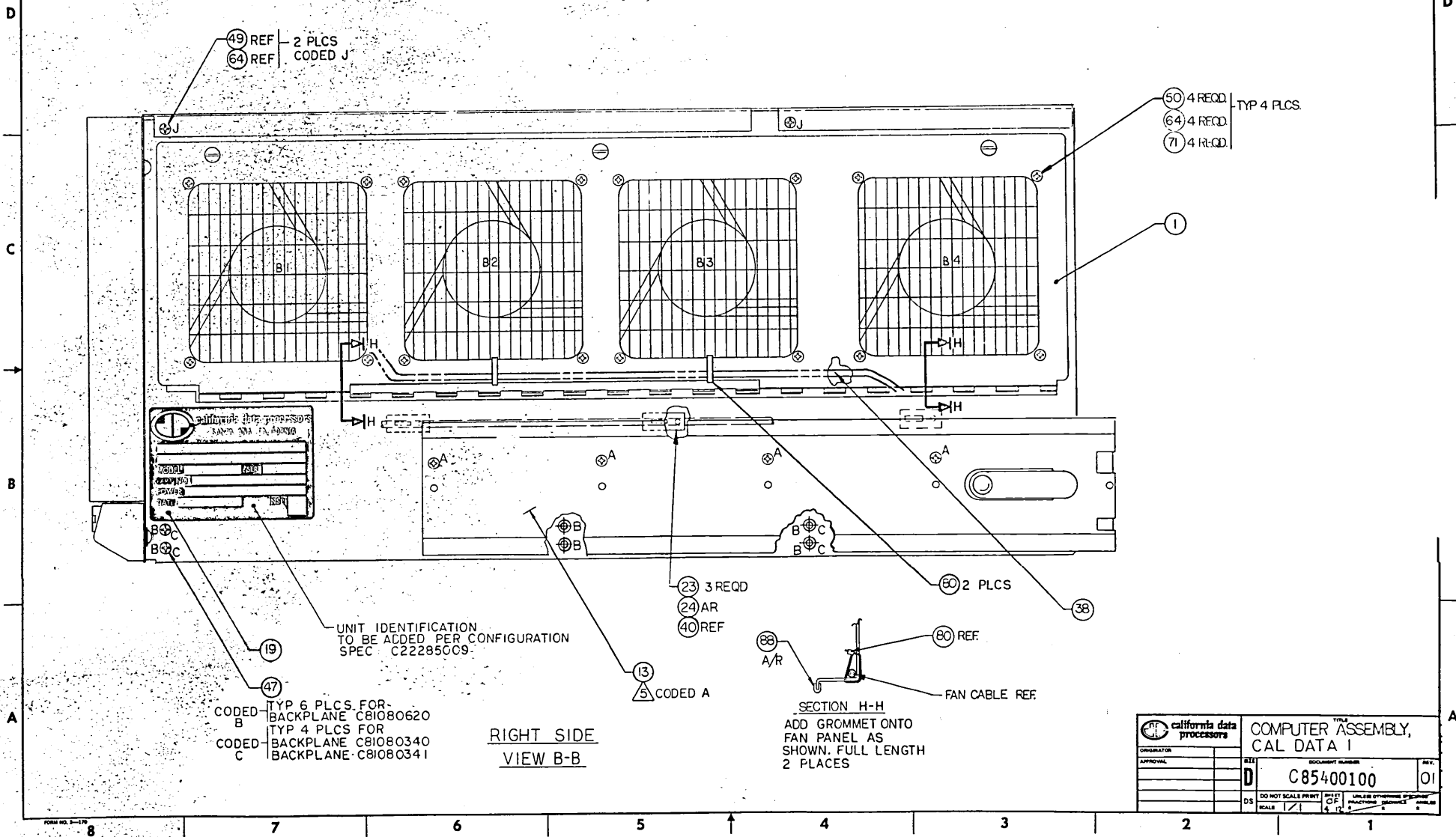


FRONT, VIEW A-A

	COMPUTER ASSEMBLY, CAL DATA I	
	OPERATOR APPROVAL	DOCUMENT NUMBER D C85400100
DO NOT SCALE PRINT DIMENSIONS	SHEET 03	UNLESS OTHERWISE SPECIFIED FRACTIONS DECIMALS ANGLES

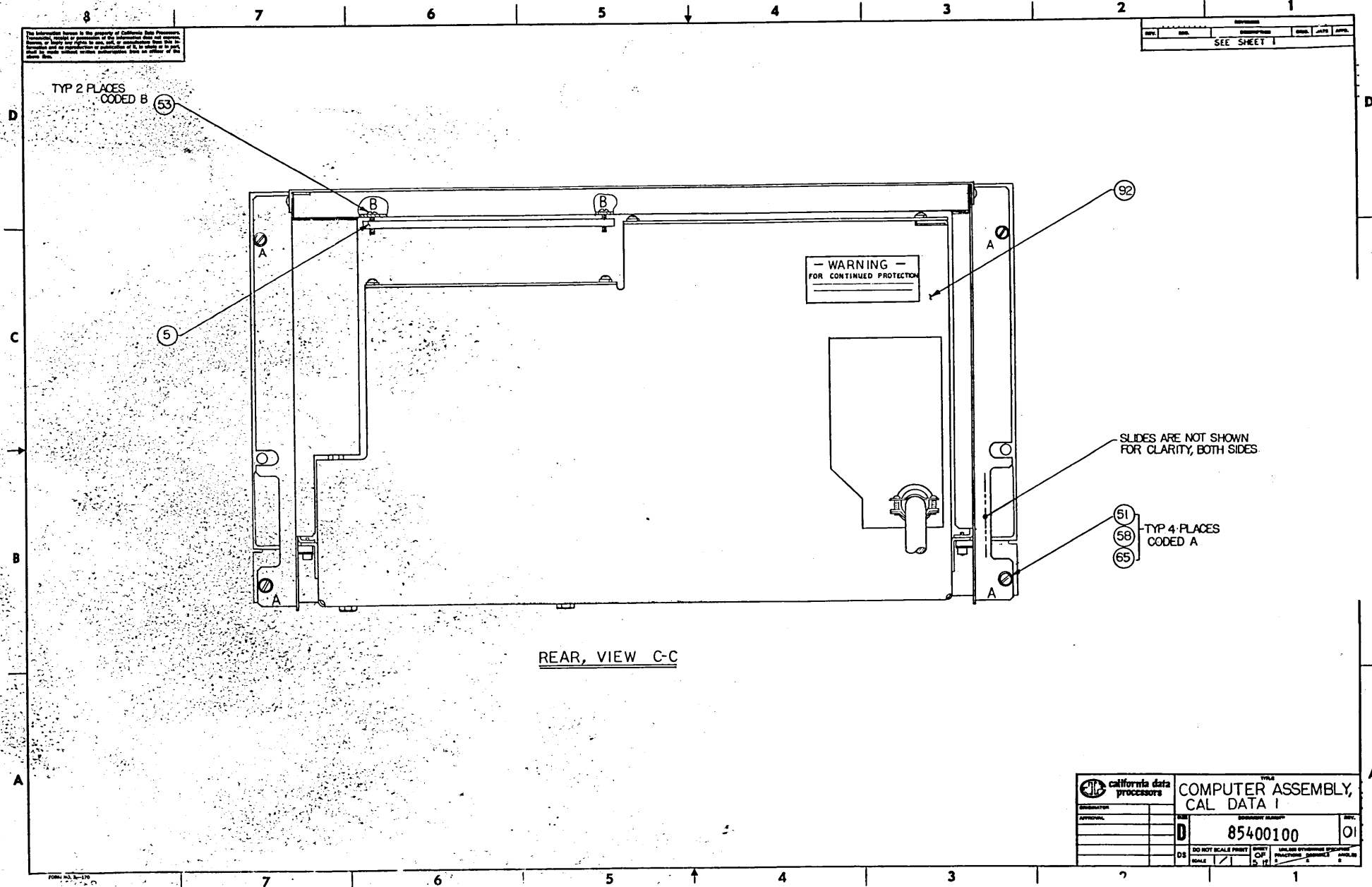
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SEE SHEET I				

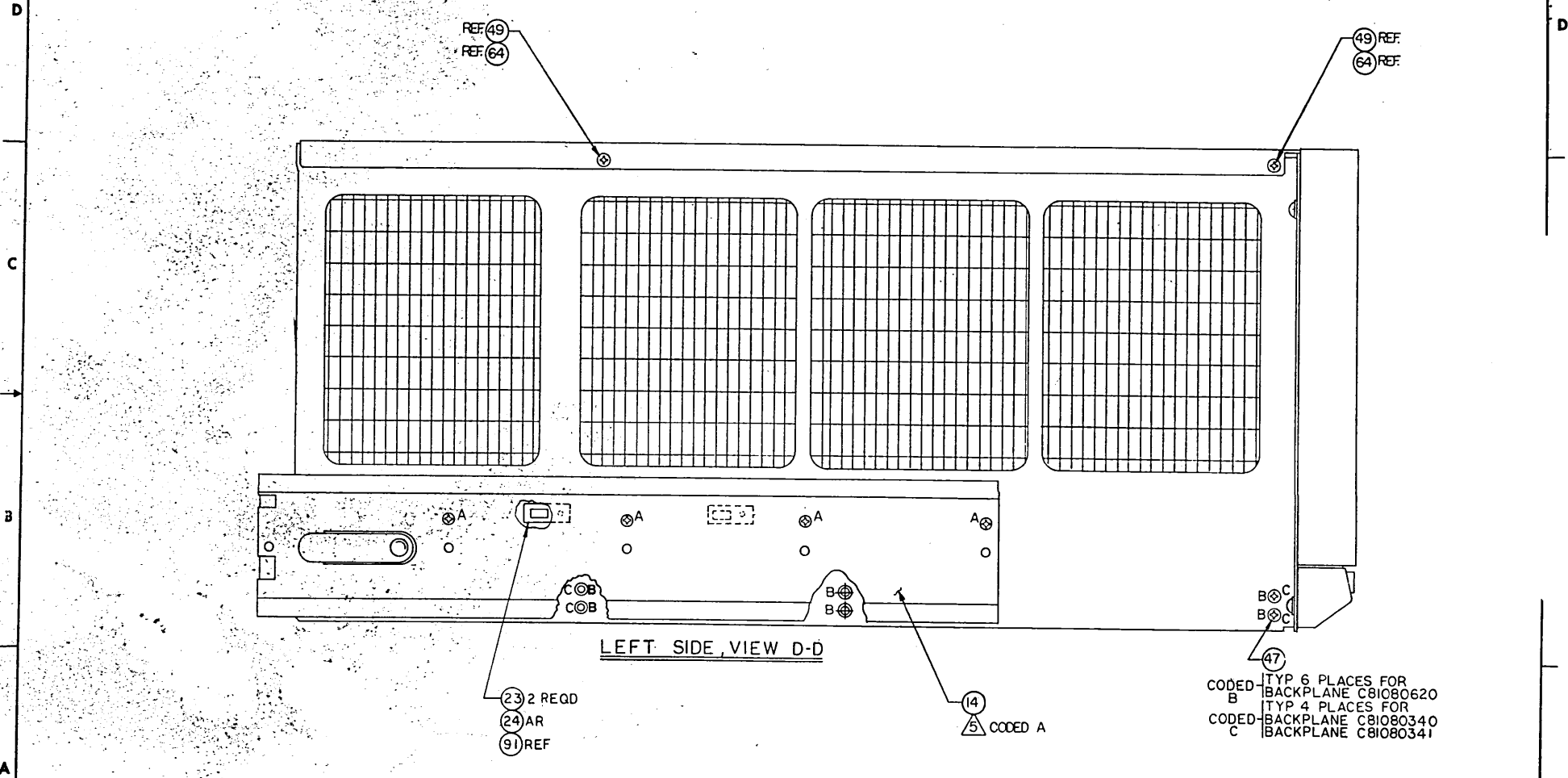


REAR, VIEW C-C

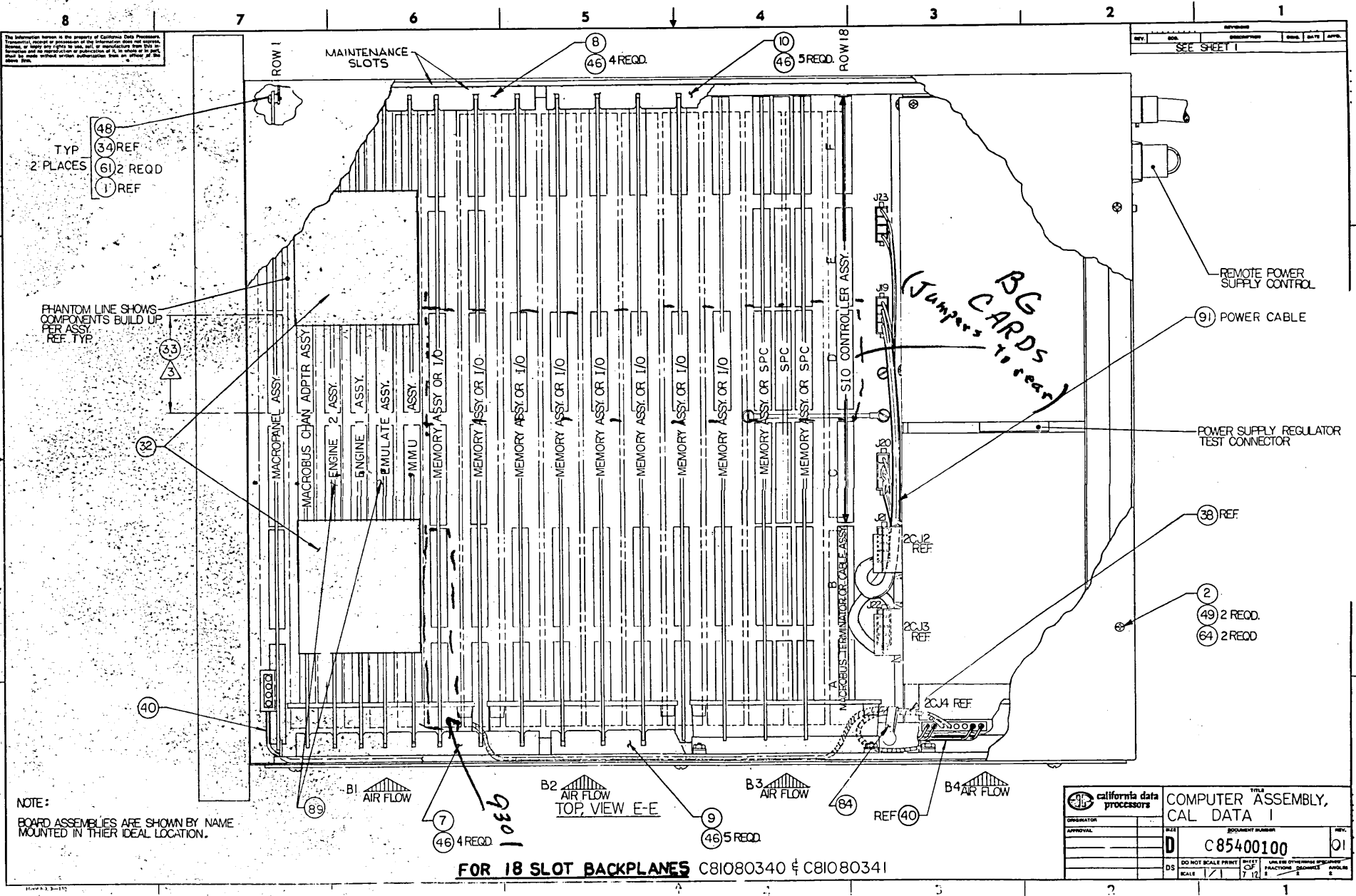
	COMPUTER ASSEMBLY, CAL DATA I	
	DRAWING NUMBER D 85400100	REV. 01
DO NOT SCALE PRINT SCALE <input checked="" type="checkbox"/>	CHECKED BY DATE	RELEASE BY DATE

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	TITLE COMPUTER ASSEMBLY CAL DATA I	
	OPERATOR APPROVAL	DESIGNED BY D
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REV. 001
 SEE SHEET 1

48
 34 REF
 61 2 REQD
 1 REF

PHANTOM LINE SHOWS COMPONENTS BUILD UP PER ASSY. REF. TYP.

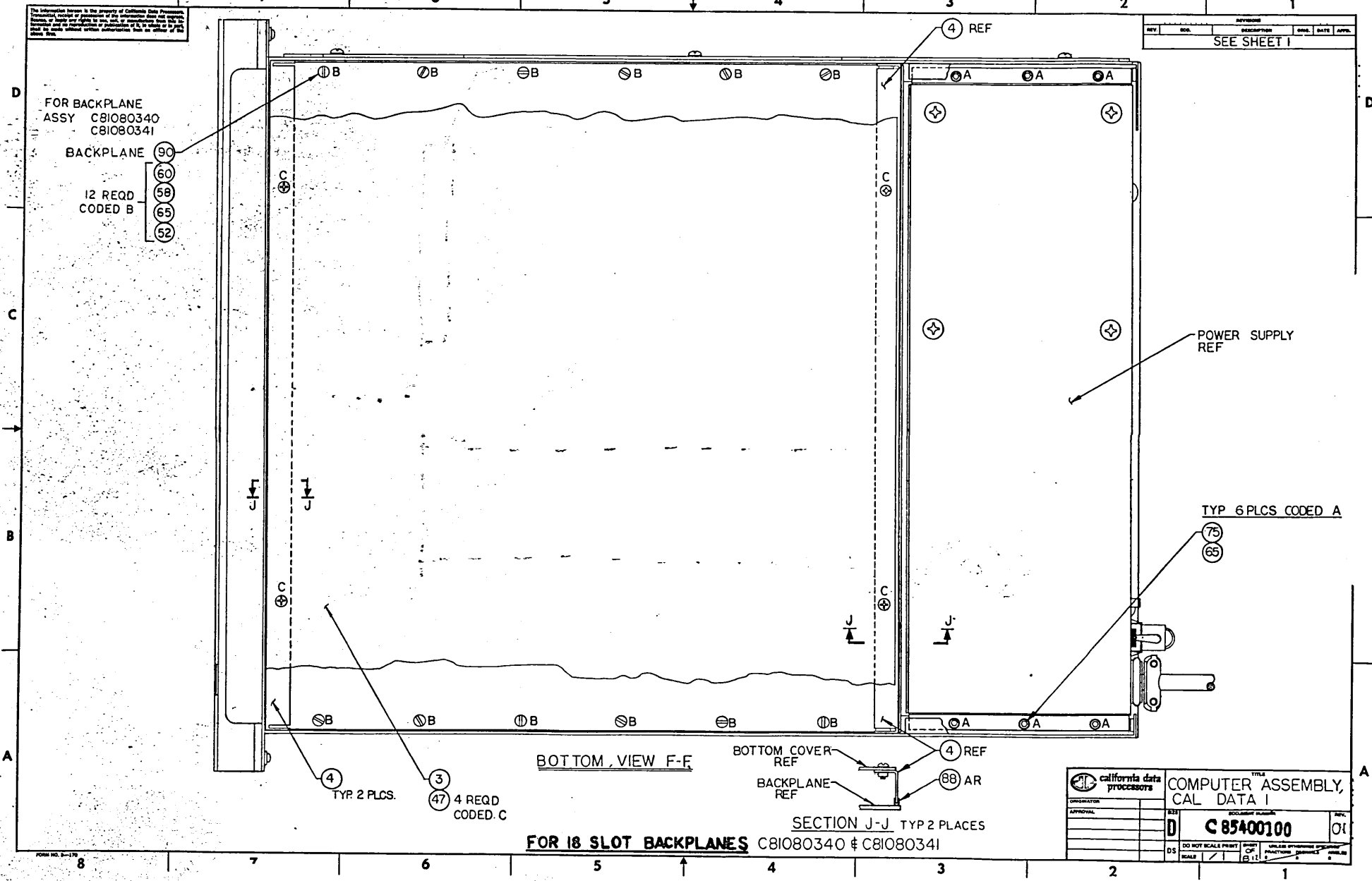
NOTE:
 BOARD ASSEMBLIES ARE SHOWN BY NAME MOUNTED IN THEIR IDEAL LOCATION.

FOR 18 SLOT BACKPLANES C81080340 & C81080341

		TITLE COMPUTER ASSEMBLY, CAL DATA I	
OPERATOR APPROVAL	DESIG D	EQUIPMENT NUMBER C 85400100	REV. 01
DO NOT SCALE PRINT SCALE	SHEET 7	TOTAL SHEETS 12	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

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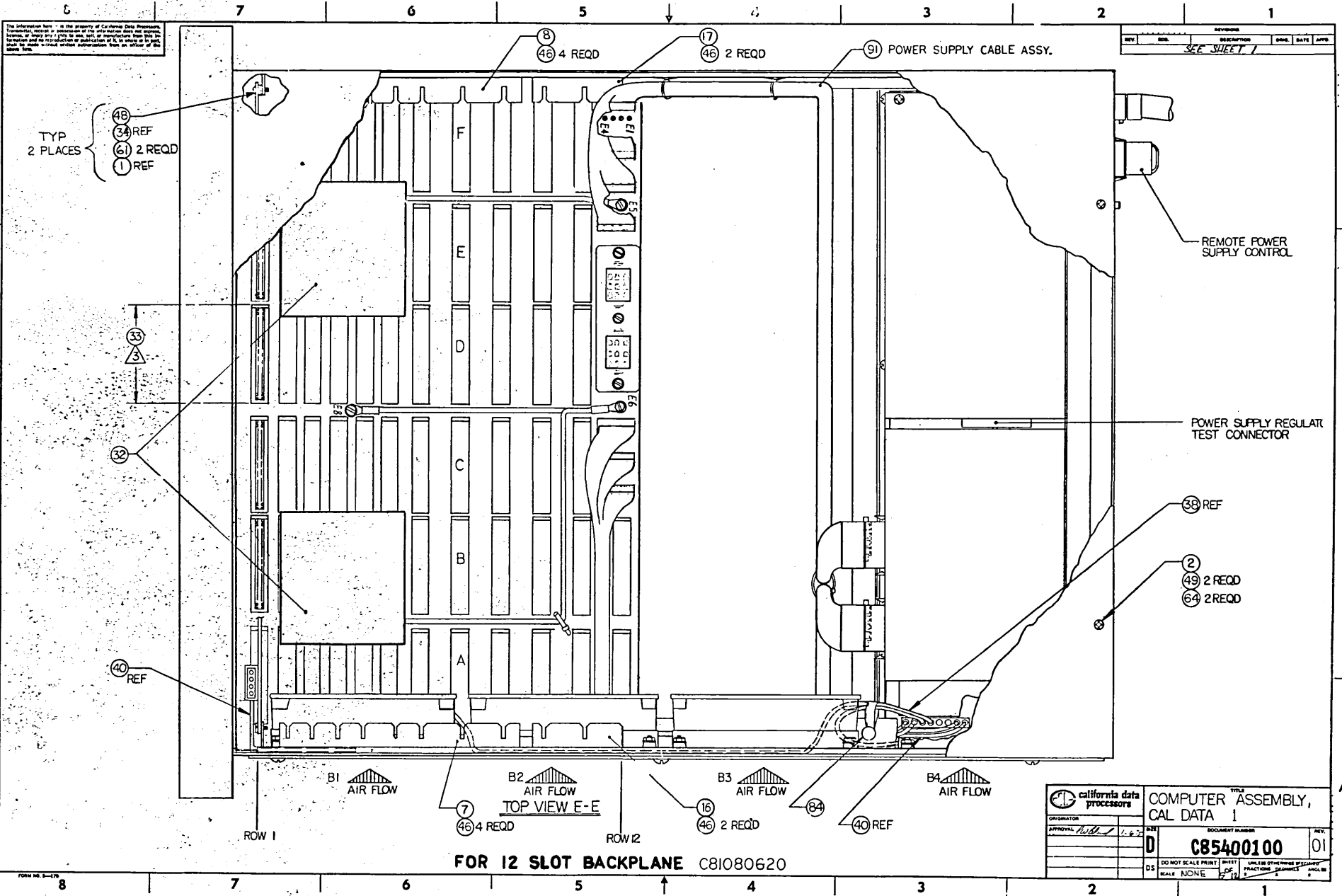
REVISION				
REV.	NO.	DESCRIPTION	DATE	APP.
SEE SHEET I				



FORM NO. 2-174

FOR 18 SLOT BACKPLANES C81080340 & C81080341

		TITLE COMPUTER ASSEMBLY, CAL DATA I	
OPERATOR	APPROVAL	DOCUMENT NUMBER D C85400100	REV. 01
DS	DO NOT SCALE PRINT MAKE /	UNIT OF INCHES	OTHER DIMENSIONS IN FRACTIONS (DENOMINATOR)



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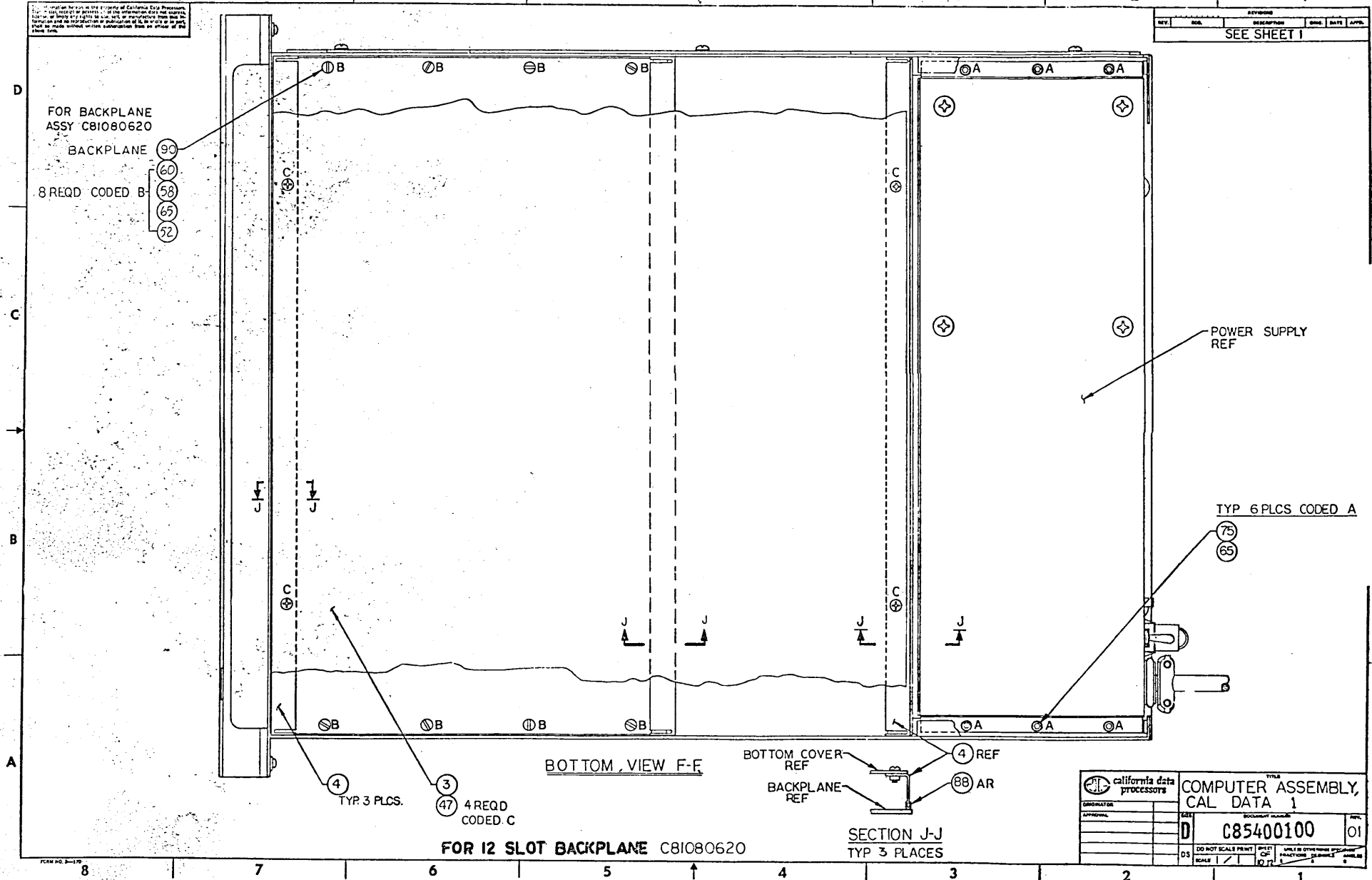
REVISIONS				
REV.	DATE	DESCRIPTION	BY	APP.
1		SEE SHEET 1		

california data processors		TITLE COMPUTER ASSEMBLY, CAL DATA 1	
CALCULATOR APPROVAL <i>[Signature]</i>	DATE 1-6-72	DOCUMENT NUMBER C85400100	REV. 01
DS DO NOT SCALE PRINT SCALE NONE		UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES FRACTIONS DECIMALS ANGLES	

FOR 12 SLOT BACKPLANE C81080620

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REV.	BY	DATE	APPV.
SEE SHEET 1			




 california data processors	TITLE COMPUTER ASSEMBLY, CAL DATA 1	
	DRAWING NUMBER D 85400100	REV. 01
DO NOT SCALE PRINT SCALE: 1/1	SHEET 01	PARTS IN OTHER VIEWS IDENTIFIED BY DIMENSIONS

FORM NO. 3-175
 8

LIST OF MATERIALS

ITEM NO.	QTY. RECD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		C67680013	CHASSIS			
2	1		C67680015	COVER TOP			
3	1		C67680030	COVER BOTTOM			
4	A/R		C67630028	BRACKET, BACKPLANE SUPPORT	△7		
5	1		C67680029	BRACKET, STRAIN RELIEF - I/O			
6	1		C67680026	BEZEL			
7	1		C67680034	CARD GUIDE, FRONT RIGHT	△8		
8	1		C67680035	CARD GUIDE, FRONT LEFT			
9	1		C67680037	CARD GUIDE, REAR RIGHT	△8		
10	1		C67680038	CARD GUIDE, REAR LEFT			
11							
12	1		C67680039	OVERLAY			
13	1		C67680042	CHASSIS SLIDE, RIGHT	△5		
14	1		C67680043	CHASSIS SLIDE, LEFT			
15							
16	1		C67680111	CARD GUIDE, REAR RIGHT	△8		
17	1		C67680112	CARD GUIDE, REAR LEFT			
18							
19	1		C62844210	LABEL, I.D.			
20							
21							
22							
23	A/R		C61824100	TIE WRAP ANCHOR		T & B	TC105A
24	A/R		C31518000	SOLVENT		T & B	TC-110
25							
26							
27							
28							
29							
30	1		C81080180	BOARD ASSY, ENGINE NO. 1	INSTALL IN SLOT J4		
31	1		C81080300	BD. ASSY, MACROBUS CHAN ADPTR	INSTALL IN SLOT J2		
32	2		C81080130	BOARD ASSY, CPU INTERCONNECT			
33	A/R		C66080120	BUS GRANT CONTINUITY P.W.BOARD	△3		
34	1		C81080310	BOARD ASSY, MACROPANEL	INSTALL IN SLOT J1		
35	1		C81080050	BOARD ASSY, TERMINATOR	INSTALL IN SLOT J7AB		
36							
37							
38	1		C85300046	CABLE ASSEMBLY, FAN POWER			
39							
40	1		C85300207	CABLE ASSEMBLY, MACROPANEL			
41							
42							
43							
44							
45							
46							
47	A/R		C61412561	SCREW, FLAT HD. #6 X 1/4, 82°			
48	A/R		C61451035	SCREW, BINDER HD.#6 X 1/4			
49	A/R		C61431059	SCREW, PAN HD. #6 X 1/4			
50	A/R		C61431065	SCREW, PAN HD. #6 X 3/4			
51	A/R		C61431080	SCREW, PAN HD. #8 X 3/8			


FORM NO. 3-172

ORIGINATOR <i>P. Anderson</i>	<i>8-5-74</i>	 california data processors	TITLE COMPUTER ASSEMBLY, CAL DATA 1	
APPROVAL <i>L. J. Anderson</i>	<i>8-23-74</i>		SIZE B	DOCUMENT NUMBER CB5400100
<i>R. J. Anderson</i>	<i>8-23-74</i>		REV. 01	
<i>J. J. Anderson</i>	<i>8-23-74</i>		DS	SHEET 11 OF 12 PAGE


LIST OF MATERIALS

ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
52	A/R		C61431087	SCREW, PAN HD. #8 X 1-1/4			
53	A/R		C61431063	SCREW, PAN HD. #6 X 1/2			
54							
55							
56							
57							
58	A/R		C61212014	WASHER, FLAT #8			
59							
60	A/R		C61221460	WASHER, FLAT #8,NYLON		WECKESSER	NW8-3753
61	A/R		C61221400	WASHER, FLAT #6,NYLON			
62							
63							
64	A/R		C61241110	WASHER, INT. TOOTH #6			
65	A/R		C61241112	WASHER, INT. TOOTH #8			
66							
67							
68							
69							
70							
71	A/R		C61532008	NUT, HEX #6			
72							
73							
74							
75	A/R		C61511325	SCREW, SOCKET HD.CAP 8-32 X 3/8			
76							
77							
78							
79							
80	A/R		C56262104	TIE-WRAP		PANDUIT	SST-1-M
81							
82							
83							
84	A/R		C61825100	CABLE HANGER		RICHO	CH-1
85							
86							
87							
88	A/R		C33115010	GROMMET, CONTINUOUS		RICHO	PGS-2

ITEMS 1 THRU 88 ARE COMMON TO ALL UNITS, WITH THE EXCEPTIONS OF ITEMS 9, 10, 16 and 17 SEE NOTE 8, ITEMS 89 AND SUBS MUST BE SELECTED TO AGREE WITH THE MARKETING CODE DEFINED IN CONFIGURATION SPECIFICATION C22285009.

89	1		C419XXXXX	EMULATION BOARD SET			
90	1		C8108XXXX	BACKPLANE ASSEMBLY			
91	1		C853XXXXX	POWER CABLE ASSEMBLY			
92	1		C855XXXXX	POWER SUPPLY ASSEMBLY			
93							
94							
95							
96							
97							
98							
99							


FORM NO. 3-172

ORIGINATOR		 california data processors	TITLE	
APPROVAL			COMPUTER ASSEMBLY, CAL DATA 1	
			SIZE	REV.
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ENGINEERING SPECIFICATION

CAL DATA 1
COMPUTER ASSEMBLY
CONFIGURATION SPECIFICATION

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<i>W. H. ...</i>	P-20-74	 california data processors	TITLE CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION		
APPROVAL	8-2-74		SIZE A	DOCUMENT NUMBER C22285009	REV. 05
<i>W. H. ...</i>	P-23-74				
<i>W. H. ...</i>	3-2-74				
<i>W. H. ...</i>	8-23-74				
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ENGINEERING SPECIFICATION

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ORIGINATOR		 california data processors	TITLE		
APPROVAL			CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION		
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ENGINEERING SPECIFICATION

1.0 SCOPE

This Specification defines the various configurations of the Cal Data 1 Computer Assembly.

2.0 APPLICABLE DOCUMENTS

In addition to the Cal Data documents referenced in the configuration description of this Specification, the following document provides additional information.

Cal Data Document No.	Title
C22283002	Cal Data 1 Shipping Preparation


3.0 EQUIPMENT CONFIGURATION

The configuration of a Cal Data 1 Computer Assembly requires four basic steps:

1. Emulation Board Set Selection
2. Backplane Selection
3. Power Supply Selection
4. Power Cable Selection

These four steps are described in Sections 3.2, 3.3, 3.4 and 3.5 respectively.

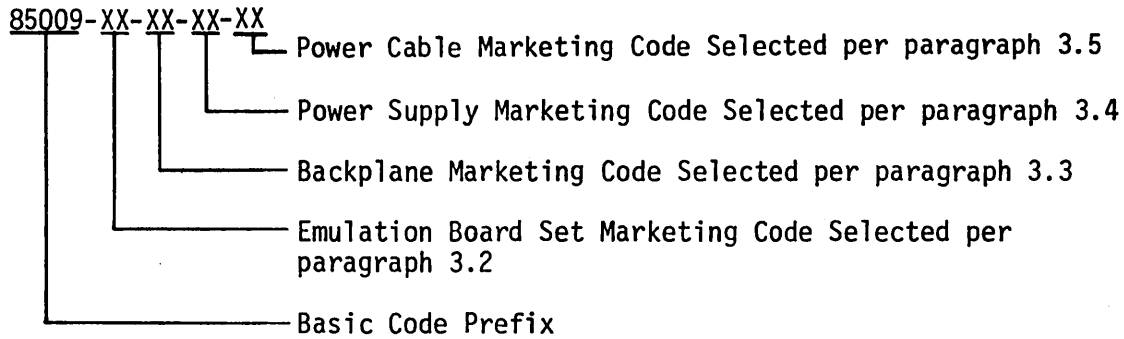
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ENGINEERING SPECIFICATION

3.1 Marketing Code Definition


The Marketing Code for a unique configuration consist of a five-part code number, separated by dashes.



The Basic Marketing Code prefix contains the mechanical chassis, basic CPU, MACROBUS Channel Adapter, cooling devices, Macropanel and MACROBUS Terminator.

All items per a unique configuration are assembled per Cal Data Document C85400100.

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APPROVAL			SIZE A	DOCUMENT NUMBER C22285009	REV. 05
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ENGINEERING SPECIFICATION

3.2 Emulation Board Set Selection

One of the following Emulation Board Sets must be specified per the Marketing Code.

Cal Data Emulation Board Set	Marketing Code	Description
	-00	Reserved
C41900101	-01	Basic 135-1K Emulation
C41900102	-02	Superseded by C41900108
C41900103	-03	C41900109
C41900104	-04	C41900110
C41900105	-05	C41900111
C41900106	-06	C41900112
C41900107	-07	Superseded by C41900113
C41900108	-08	Basic 135-1K Emulation with EIS
C41900109	-09	Basic 135-2K Emulation
C41900110	-10	Basic 135 Emulation with EIS/FIS
C41900111	-11	Basic 135 Emulation with EIS/FIS/EFM

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APPROVAL		CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION		
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ENGINEERING SPECIFICATION

3.2 (Continued)

Cal Data Emulation Board Set	Marketing Code	Description
C41900112	-12	Basic 135-2K Emulation with EIS
C41900113	-13	Basic 135-2K Emulation with EIS/EFM
	-14	Not Assigned
	-15	
	-16	
	-17	
	-18	
	-19	
	-20	
	-21	
	-22	
	-23	
	-24	
	-25	Not Assigned

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ORIGINATOR		 california data processors	TITLE CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION	
APPROVAL			SIZE A	DOCUMENT NUMBER C22285009
			DS SHEET 6 OF 13	PAGE


ENGINEERING SPECIFICATION

3.3 Backplane Selection

One of the following Backplanes must be selected per the Marketing Code.

Cal Data Part Number	Marketing Code	Description
	-00	Reserved
C81080340	-01	Standard 18-Slot Backplane with special Quadboard I/O
C81080620	-02	Standard 12-Slot Backplane
C81080341	-03	Standard 18-Slot Backplane with special Quadboard I/O
	-04	Not Assigned
	-05	
	-06	
	-07	
	-08	
	-09	
	-10	
	-11	Not Assigned

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APPROVAL			CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION			
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ENGINEERING SPECIFICATION

3.3 (Continued)

Cal Data Part Number	Marketing Code	Description
	-12	Not Assigned
	-13	
	-14	
	-15	
	-16	
	-17	
	-18	
	-19	
	-20	
	-21	
	-22	
	-23	
	-24	
	-25	Not Assigned

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ORIGINATOR		 california data processors	TITLE CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION		
APPROVAL			SIZE	DOCUMENT NUMBER	REV.
			A	C22285009	05
			DS	SHEET 8 OF 13	PAGE


ENGINEERING SPECIFICATION

3.4 Power Supply Selection

One of the following power supplies must be selected per the Marketing Code.

Cal Data Part Number	Marketing Code	Description
	-00	
C85500018	-01	Power Supply Assembly, 115VAC, 36 Amp @ +5VDC
C85500019	-02	Power Supply Assembly, 208VAC, 36 Amp @ +5VDC
C85500020	-03	Power Supply Assembly, 230VAC, 36 Amp @ +5VDC
C85500021	-04	Power Supply Assembly, 230V European, 36 Amp @ +5VDC
	-05	Not Assigned
	-06	
	-07	
	-08	
	-09	
	-10	
	-11	
	-12	
	-13	
	-14	
	-15	
	-16	
	-17	
	-18	Not Assigned

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ORIGINATOR		 california data processors	TITLE	
APPROVAL			CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION	
		SIZE	DOCUMENT NUMBER	REV.
		A	C22285009	05
		DS	SHEET 9 OF 13	PAGE


ENGINEERING SPECIFICATION

3.5 Power Cable Selection

The power cable is selected as a function of both the backplane assembly and the power supply using the following chart.

Backplane Assy	Marketing Code	Power Supply Assembly(s)	Power Cable Required
	-00	Reserved	
C81080620 (12-Slot)	-01	C85500018	C85300208
		C85500019	
		C85500020	
		C85500021	
C81080340 (18-Slot)	-02	C85500018	C85300057
		C85500019	
		C85500020	
		C85500021	
C81080341 (18-Slot)	-03	C85500018	C85300057
		C85500019	
		C85500020	
		C85500021	
	-04	Not Assigned	

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ORIGINATOR	 california data processors	TITLE		
APPROVAL		CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION		
		SIZE	DOCUMENT NUMBER	REV.
		A	C22285009	05
		DS	SHEET 10 OF 13	PAGE

ENGINEERING SPECIFICATION

3.5 (Continued)

Backplane Assy	Marketing Code	Power Supply Assembly(s)	Power Cable Required
	-05	Not Assigned	
	-06		
	-07		
	-08		
	-09		
	-10	Not Assigned	

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ORIGINATOR		 california data processors	TITLE CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION	
APPROVAL			SIZE A	DOCUMENT NUMBER C22285009
			DS SHEET 11 OF 13	PAGE

ENGINEERING SPECIFICATION

3.6 Unit Identification

All units configured using this Specification must be identified as shown in Figure 1 and located on the units as shown in View B-B on Document C85400100.

The serial number must be prefixed with a division code which agrees with place of manufacture:

DS equals Cal Data
DE equals Edina

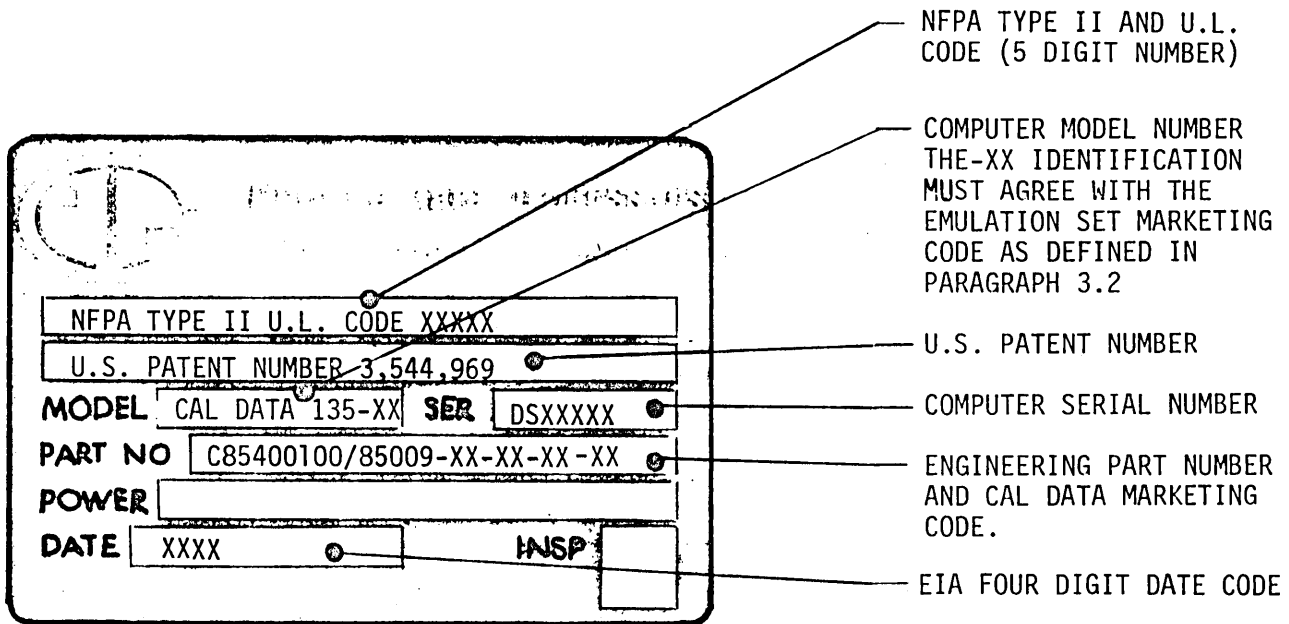


FIGURE 1

3.7 Options


Options, when required, will be specified on the Sales Order.

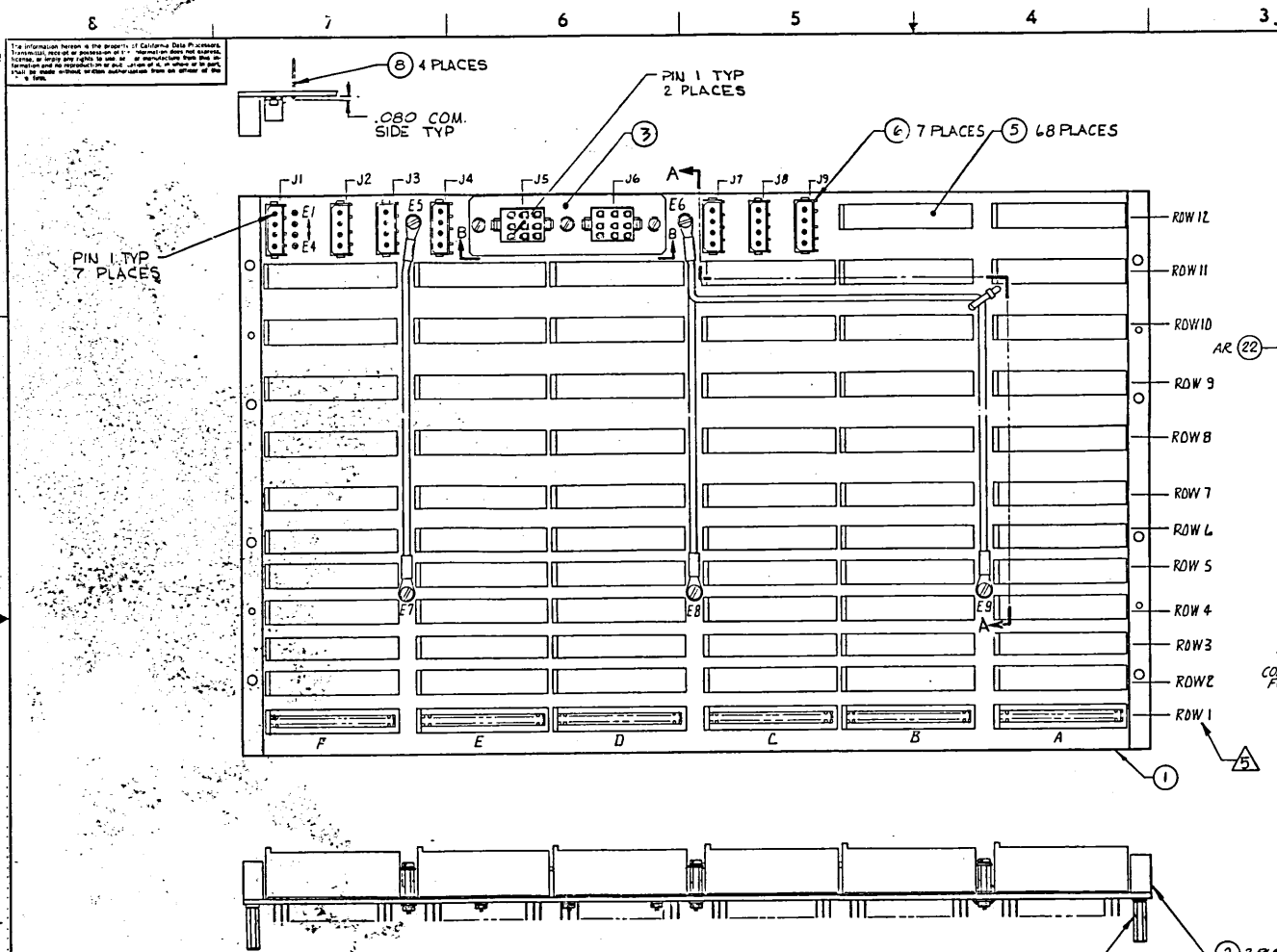
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ORIGINATOR		california data processors	TITLE	
APPROVAL			CAL DATA 1 COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION	
			DOCUMENT NUMBER	REV.
		SIZE	C22285009	05
		A		
		DS	SHEET 12 OF 13	PAGE

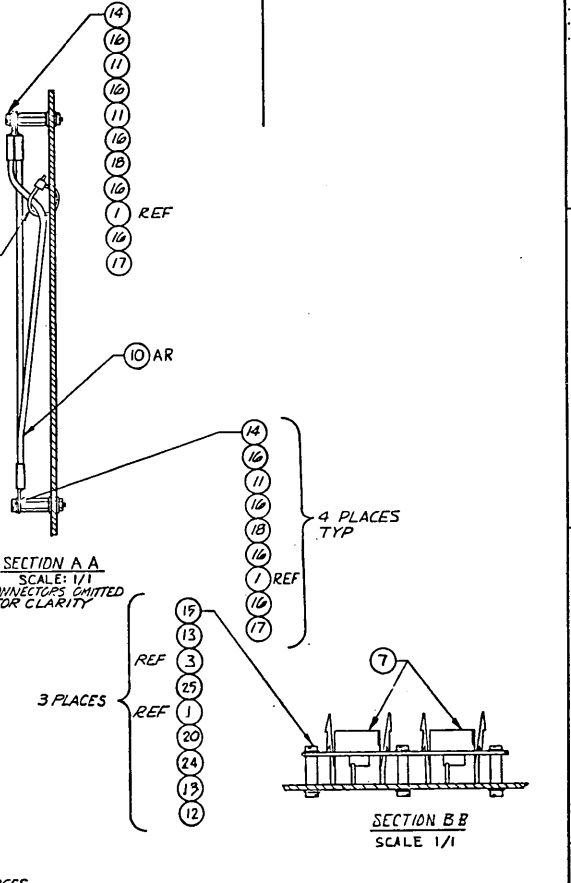
REVISIONS

REV.	CO		DRFT.	DATE	CHK'D	APPD.
01	0	Released per DRN DS00130	WB	8-15-74	WB	WB
02	DS00181-01	See ECO	RM	10-1-74	WB	(WB)
03	DS00245-01	See ECO	RM	2-5-75	WB	(WB)
04	DS00329-01	SEE ECO	RM	8-15-75	WB	WB
05	DS00401-01	SEE ECO	RM	9-22-75	WB	(WB)

ORIGINATOR		 california data processors	TITLE	
APPROVAL			CAL DATA I COMPUTER ASSEMBLY CONFIGURATION SPECIFICATION	
			DOCUMENT NUMBER	REV.
		SIZE	C22285009	05
		A		
		DS	SHEET 13 OF 13	PAGE



RELEASE STATUS		REV		REVISION		DATE		APPR	
RELEASE LEVEL	APPROVED	DATE	REV	NO	DESCRIPTION	CHK	DATE	APP	
ASSEMBLY			01	0	DRN D00202	CK	11/27/62		
CONSTRUCTION					0500752-01	SEE E.C.O.			
PRODUCTION					0500753-01	SEE E.C.O.			



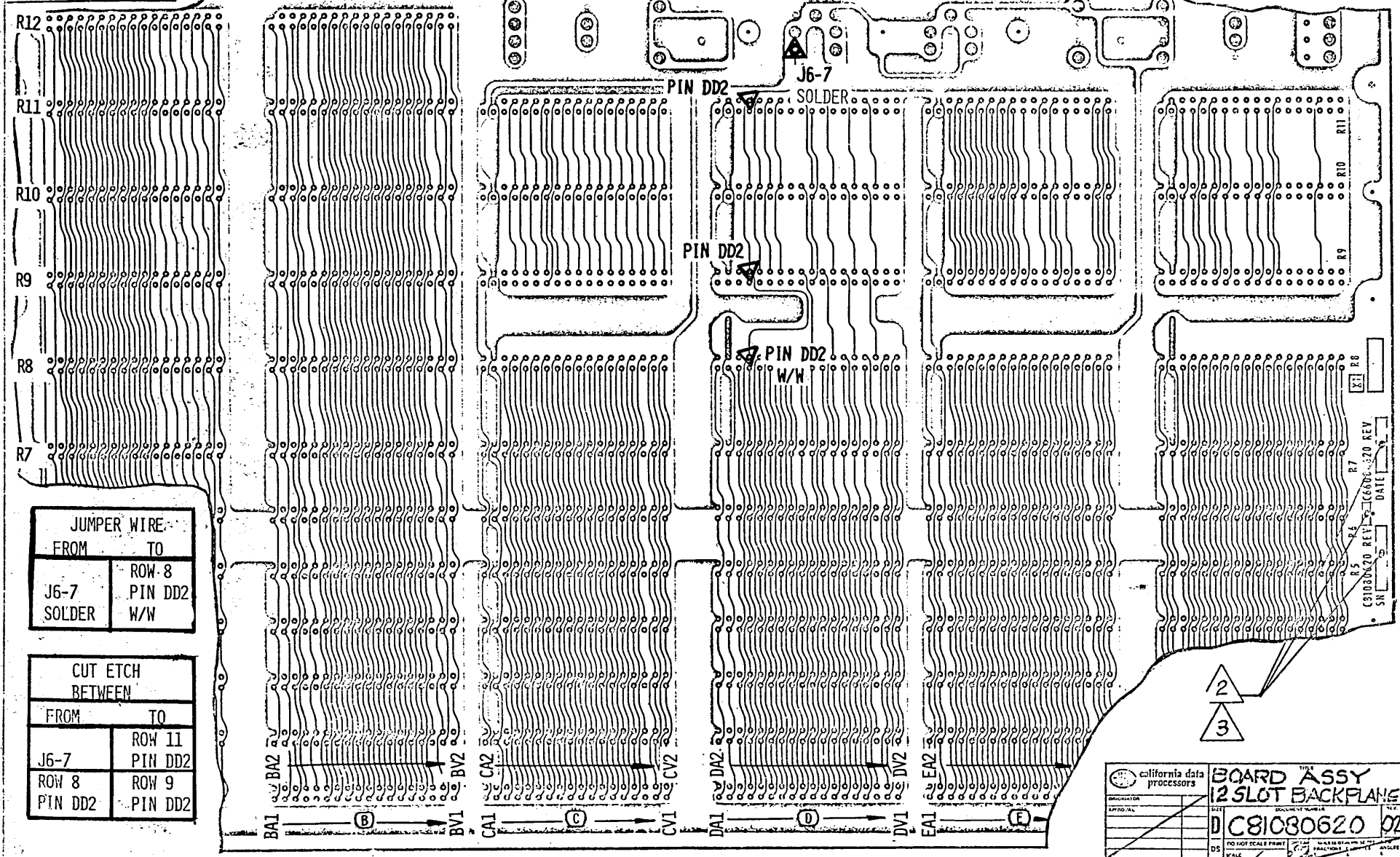
- 3. SERIAL NUMBER TO BE PREFIXED WITH A DIVISION CODE WHICH AGREES WITH PLACE OF MANUFACTURE: DS EQUAL - SANTA ANA, DE EQUAL - EDINA.
- 4. MARK ASSEMBLY LATEST REV. LETTER TO WHICH IT WAS BUILT. ASSY. SERIAL NUMBER AND EIA FOUR DIGIT DATE CODE. LETTERING TO BE .12 HIGH EPOXY PAINT, VERTICAL GOTHIC AND LOCATED APPROX. AS SHOWN.
- 5. DESIGNATIONS ROW 1 THRU ROW 12 ARE SHOWN FOR REFERENCE ONLY.
- 6. MAKE PER CAL DATA SPEC. C21100010 AND C22270100.
- 7. FOR SCHEMATIC SEE C21080620.

NOTES: UNLESS OTHERWISE SPECIFIED

ITEM	PART NO.	QTY.	DESCRIPTION
			TYPE: BOARD ASSEMBLY - 12 SLOT BACKPLANE
APPROVAL	DATE	REV	DOCUMENT NUMBER
APPROVED	11-27-62	01	C81080620
DESIGNED	11-27-62		
DRAWN	11-27-62		
CHECKED	11-27-62		
ISSUED	11-27-62		
DO NOT SCALE PRINT	SCALE	1/1	UNLESS OTHERWISE SPECIFIED

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 DATA PROCESSORS.

REVISIONS			
REV	ECO	DESCRIPTION	DATE



JUMPER WIRE	
FROM	TO
J6-7	ROW 8
SOLDER	PIN DD2
	W/W

CUT ETCH BETWEEN	
FROM	TO
J6-7	ROW 11
ROW 8	PIN DD2
PIN DD2	ROW 9
	PIN DD2

california data processors		BOARD ASSY	
12 SLOT BACKPLANE		REV 2	
ORIGINATOR	DATE	SIZE	DOCUMENT NUMBER
APPROVAL		D	C81030620 02
DS	NO FOOT SCALE PRINT	SPACE	

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REV.	DATE	DESCRIPTION	APP.	DATE
1		SEE SHIT 1		

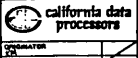
WIRE TAB LISTING

ORIGIN	DESTINATION	FUNCTION
ROW11B2	ROW11E2	A00-L
ROW11B1	ROW11E1	A01-L
ROW11B2	ROW11E1	A02-L
ROW11B1	ROW11E2	A03-L
ROW11B2	ROW11E2	A04-L
ROW11B1	ROW11E1	A05-L
ROW11B2	ROW11E1	A06-L
ROW11B1	ROW11E2	A07-L
ROW11B2	ROW11E2	A08-L
ROW11B1	ROW11E1	A09-L
ROW11B2	ROW11E1	A10-L
ROW11B1	ROW11E2	A11-L
ROW11B2	ROW11E2	A12-L
ROW11B1	ROW11E1	A13-L
ROW11B2	ROW11E1	A14-L
ROW11B1	ROW11E2	A15-L
ROW11B2	ROW11E2	A16-L
ROW11B1	ROW11E1	A17-L
ROW11A2	ROW11C2	D00-L
ROW11A1	ROW11C1	D01-L
ROW11A2	ROW11C2	D02-L
ROW11A1	ROW11C1	D03-L
ROW11A2	ROW11C2	D04-L
ROW11A1	ROW11C1	D05-L
ROW11A2	ROW11C2	D06-L
ROW11A1	ROW11C1	D07-L
ROW11A2	ROW11C2	D08-L
ROW11A1	ROW11C1	D08-L
ROW11A2	ROW11C2	D08-L

ORIGIN	DESTINATION	FUNCTION
ROW11A2	ROW11C2	D09-L
ROW11A1	ROW11C1	D10-L
ROW11A2	ROW11C2	D11-L
ROW11A1	ROW11C1	D12-L
ROW11A2	ROW11C2	D13-L
ROW11A1	ROW11C1	D14-L
ROW11A2	ROW11C2	D15-L
ROW11A1	ROW11C1	INTR-L
ROW11A2	ROW11C2	INTR-L
ROW11A1	ROW11C1	BBSY-L
ROW11A2	ROW11C2	BBSY-L
ROW11A1	ROW11C1	BR7
ROW11A2	ROW11C2	BR6
ROW11A1	ROW11C1	BR5
ROW11A2	ROW11C2	BR4
ROW11A1	ROW11C1	C1-L
ROW11A2	ROW11C2	SSYN-L
ROW11A1	ROW11C1	SSYN-L
ROW11B2	ROW11E2	CO-L
ROW11B1	ROW11E1	PSYN-L
ROW11B2	ROW11E2	SSYN INH-L
ROW11B1	ROW11E1	SSYN INH-L
ROW11B2	ROW11E2	SELECT 0-H
ROW11B1	ROW11E1	SELECT 0-H

ORIGIN	DESTINATION	FUNCTION
ROW 9E2	ROW 9D1	SELECT 2-H
ROW10E2	ROW10D1	SELECT 2-H
ROW10E1	ROW10D2	SELECT 2-H
ROW 9E2	ROW 9E1	SELECT 4-H
ROW10E2	ROW10E1	SELECT 4-H
ROW 9E1	ROW 9D1	SELECT 4-H
ROW10E1	ROW10D1	SELECT 4-H
ROW 9E1	ROW 9D1	SELECT 6-H
ROW10E1	ROW10D1	SELECT 6-H
ROW 9E1	ROW 9D1	INTR-H
ROW10E1	ROW10D1	INTR-H
ROW 9E1	ROW 9D1	INTR-H
ROW10E1	ROW10D1	INTR-H
ROW 9E1	ROW 9D1	OUT LOW-H
ROW10E1	ROW10D1	OUT LOW-H
ROW 9E2	ROW 9D2	OUT HIGH-H
ROW10E2	ROW10D2	OUT HIGH-H
ROW 9E1	ROW 9D1	OUT HIGH-H
ROW10E1	ROW10D1	OUT HIGH-H
ROW 9FA1	ROW 9D1	B5 OUT B
ROW10FA1	ROW10D1	B5 OUT B
ROW 9FB1	ROW 9D1	B5 IN A
ROW10FB1	ROW10D1	B5 IN A
ROW 9FA2	ROW 9D1	B5 IN A
ROW10FA2	ROW10D1	B5 IN A
ROW 9FA2	ROW 9D1	INTR ENB B
ROW10FA2	ROW10D1	INTR ENB B
ROW 9FA2	ROW 9D1	INTR ENB B
ROW10FA2	ROW10D1	INTR ENB B


ORIGIN	DESTINATION	FUNCTION
ROW10FK2	ROW10C1	INTR B
ROW11FK2	ROW11C1	INTR B
ROW 9F01	ROW 9D1	INTR A
ROW10F01	ROW10D1	INTR A
ROW11F01	ROW11D1	INTR A
ROW 9FV1	ROW 9D1	INTR ENB A
ROW10FV1	ROW10D1	INTR ENB A
ROW11FV1	ROW11D1	INTR ENB A
ROW 9F02	ROW 9D2	BUS BRA
ROW10F02	ROW10D2	BUS BRA
ROW11F02	ROW11D2	BUS BRA
ROW 9FP1	ROW 9D2	BUS BRB
ROW10FP1	ROW10D2	BUS BRB
ROW11FP1	ROW11D2	BUS BRB
ROW 7AU1	ROW 7D2	NPG
ROW11CU1	E2	*8WMS
ROW 6DL2	ROW 7D2	BG-7
ROW 6DR2	ROW 7D2	BG-5
ROW 6DT2	ROW 7D2	BG-4
ROW11DT2	ROW11BE2	BG 4-H
ROW11DR2	ROW11BB1	BG 5-H
ROW11DL2	ROW11BA1	BG 6-H
ROW 9AS2	ROW 9F1	BG 7-H
ROW10AS2	ROW10F1	BUS NPR-L
ROW11AS2	ROW11F1	BUS NPR-L

 california data processors	TITLE BOARD ASSEMBLY, 12 SLOT BACKPLANE	
	DRAWN BY APPROVAL	SIZE D
DO NOT SCALE PRINT SCALE 1/16" = 1"		SHEET OF 34 REV. 02

LIST OF MATERIALS

ITEM NO.	QTY. RECD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		C66080620	P.W.B. 12 SLOT BACKPLANE			
2	2		C67680097	SUPPORT, 12 SLOT BACKPLANE			
3	1		C67680109	BRACKET, CONN. MTG.			
4							
5	68	ROW 1-12	C56131400	CONNECTOR, WIRE WRAP		CAL DATA	
6	7	J1-4, J7-9	C56150650	HEADER PIN, 4 CONTACT		AMP	350211-1
7	2	J5, J6	C56150667	CONNECTOR, 9 CIRCUIT		AMP	1-480274-0
8	A/R	E1-E4	C56233152	POST WIRE WRAP		SAE	C8250-LS
9	18	J5, J6	C56150672	CONTACT, PWB		AMP	61320-1
10	A/R		C37211390	WIRE, 14 AWG STRANDED, WHT		AMERICAN ENKA	88143141
11	A/R		C56214569	TERM. RING LUG 14-16 AWG #8		ETC	B-223-08
12	A/R		C61431061	SCREW, PAN HD #6-32 X 3/8 LG			
13	A/R		C61241110	WASHER, INT. TOOTH #6 STD			
14	A/R		C61431080	SCREW, PAN HD, #8-32 X .375 LG			
15	A/R		C61431059	SCREW, PAN HD, 6-32 X 1/4 LG			
16	A/R		C61241112	WASHER, INT. TOOTH, #8 STD.			
17	A/R		C61532010	NUT, HEX, 8-32			
18	A/R		C61541310	STAND OFF, .25 HEX 8-32 X .50 LG		AMATOM	9739-SS-0832
19							
20	A/R		C61221010	WASHER, NYLON #6			
21							
22	A/R		C56262104	TIE WRAP ADJ PLASTIC		PANDUIT	SST-1-M
23	A/R		C61541320	STANDOFF, .25 HEX 6-32 X .75 LG. SS		AMATOM	9741-SS-0632
24	A/R		C61212010	WASHER, FLAT #6 STD			
25	A/R		C61557140	STANDOFF, .25 ROUND 6-32 X 1/2		H.H. SMITH	8343
26							

FORM NO. 3-172

ORIGINATOR	<i>CK</i>	<i>12-9-74</i>	 california data processors	TITLE BOARD ASSEMBLY - 12 SLOT BACKPLANE		
APPROVAL	<i>[Signature]</i>	<i>12-11-74</i>		SIZE B	DOCUMENT NUMBER C81080620	REV. 02
<i>R. Edwards</i>	<i>[Signature]</i>	<i>1-2-75</i>				
<i>X. Edwards</i>	<i>[Signature]</i>	<i>1-6-75</i>		SHEET 4 OF 4 PAGE		
<i>Red for FCox</i>	<i>[Signature]</i>	<i>1-6-75</i>				

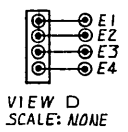
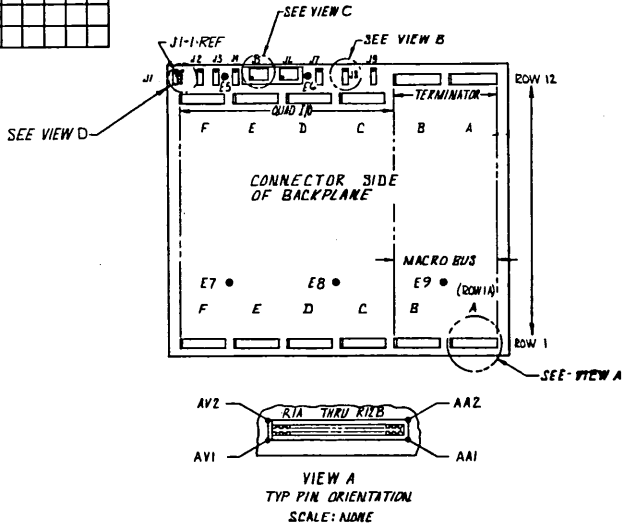
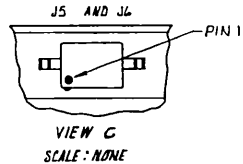
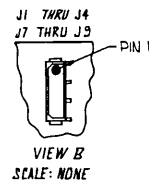
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9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50						

WIRE WRAP PIN REF. TYP.

J1-1	E1	-22VDC
J1-2	E2	+8V RMS
J1-3	E3	NOT USED
J1-4	E4	NOT USED
J2-1		+5VDC (R)
J2-2		PWR GND
J2-3		PWR GND
J2-4		+5VDC (R)
J3-1		PWR GND
J3-2	E5	
J3-3		PWR GND
J3-4		PWR GND
J4-1		PWR GND
J4-2		+5VDC
J4-3		-15VDC
J4-4		PWR GND
J5-1		DCLO
J5-2		ACLO
J5-3		-15VDC
J5-4		PWR GND
J5-5		PWR GND
J5-6		-22VDC
J5-7		LTC-L
J5-8		+8VDC
J5-9		+5VDC (R)

J6-1		DCLO
J6-2		ACLO
J6-3		-15VDC
J6-4		PWR GND
J6-5		PWR GND
J6-6		-22VDC
J6-7		LTC-L
J6-8		+8VDC
J6-9		+5VDC (R)
J7-1		PWR GND
J7-2	E6	
J7-3		PWR GND
J7-4		PWR GND
J8-1		+5VDC (R)
J8-2		PWR GND
J8-3		PWR GND
J8-4		+5VDC (R)
J9-1		DCLO
J9-2		ACLO
J9-3		LTC-L
J9-4		SIG GND
E5	E7	+5VDC (R)
E6	E8	+5VDC (R)
	E9	

RELEASE STATUS				REVISION			
RELEASE LEVEL	APPROVED	DATE	REV	ECO	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL			01		REL DRN DISCONT	1-23-74	
ENGINEERING							
PRODUCTION							



ITEM	PART NO.	QTY	DESCRIPTION
1	california data processors		BOARD SCHEMATIC 12 SLOT BACKPLANE
2			DOCUMENT NUMBER C21080620
3			REV 01

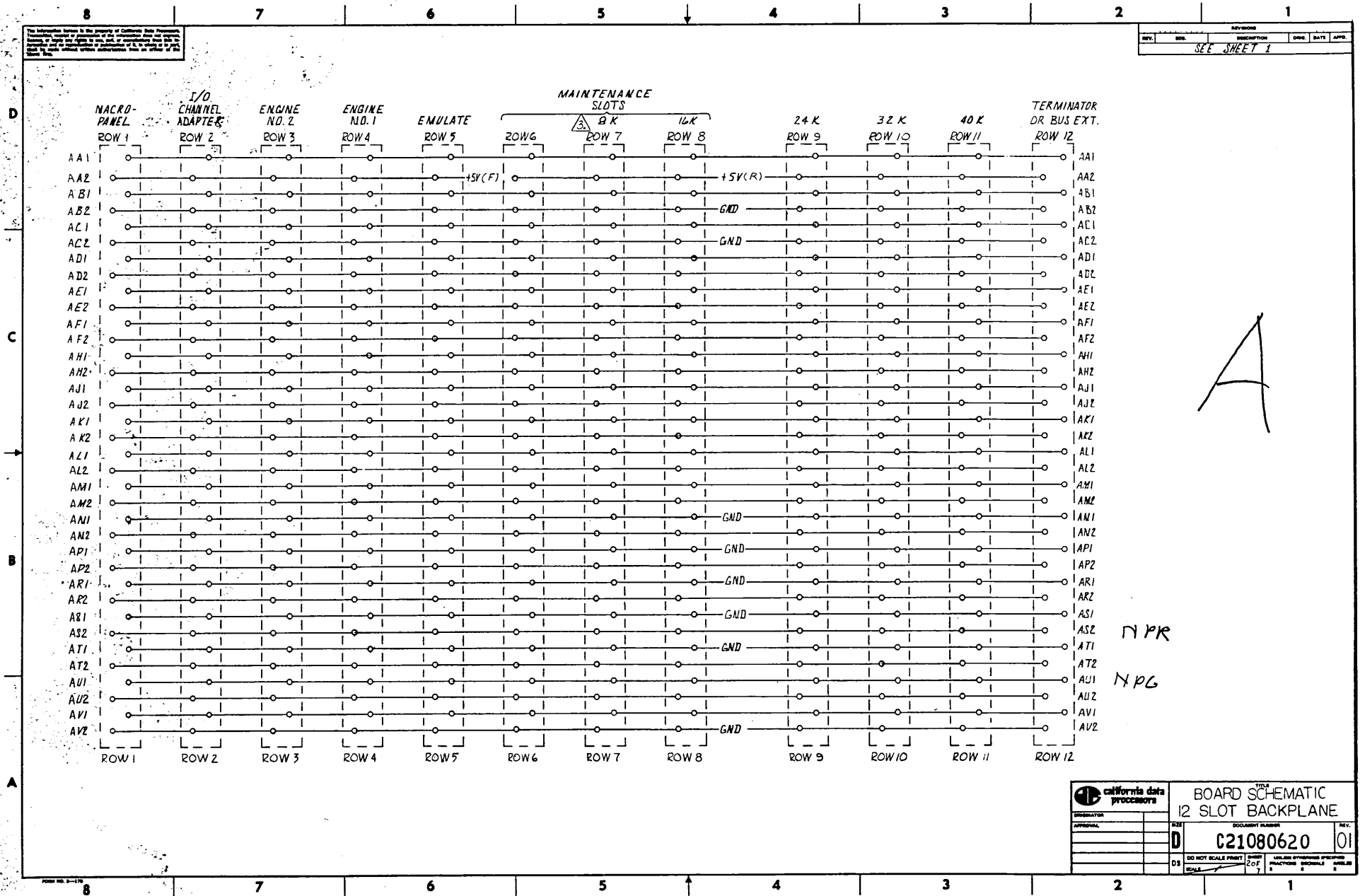
3. MEMORY ADDRESSES ARE WITH RESPECT TO BK MEMORIES AND FOR REFERENCE ONLY.
 2. * INDICATES +5VDC (F).
 1. FOR BOARD ASSEMBLY SEE C81080620

NOTES: UNLESS OTHERWISE SPECIFIED

3 PLACE	3 PLACE	3 PLACE	3 PLACE	3 PLACE	3 PLACE	3 PLACE	3 PLACE
1 819	1 819	1 819	1 819	1 819	1 819	1 819	1 819

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REV.		DESCRIPTION		DATE	APPROV.
SEE SHEET 1					



		BOARD SCHEMATIC 12 SLOT BACKPLANE	
<small>ORIGINATOR</small> APPROVAL	<small>SIZE</small> D	<small>DOCUMENT NUMBER</small> C21080620	<small>REV.</small> 01
<small>DO NOT SCALE PRINT</small> SCALE	<small>SHEET</small> 2 OF 2	<small>QUALITY PROGRAMS PROCESSED</small> PRACTICES OBSERVED	<small>ANALYSIS</small> 2

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REV	DATE	DESCRIPTION	DESIGNER	DATE	SCALE
		SEE SHEET 1			

D

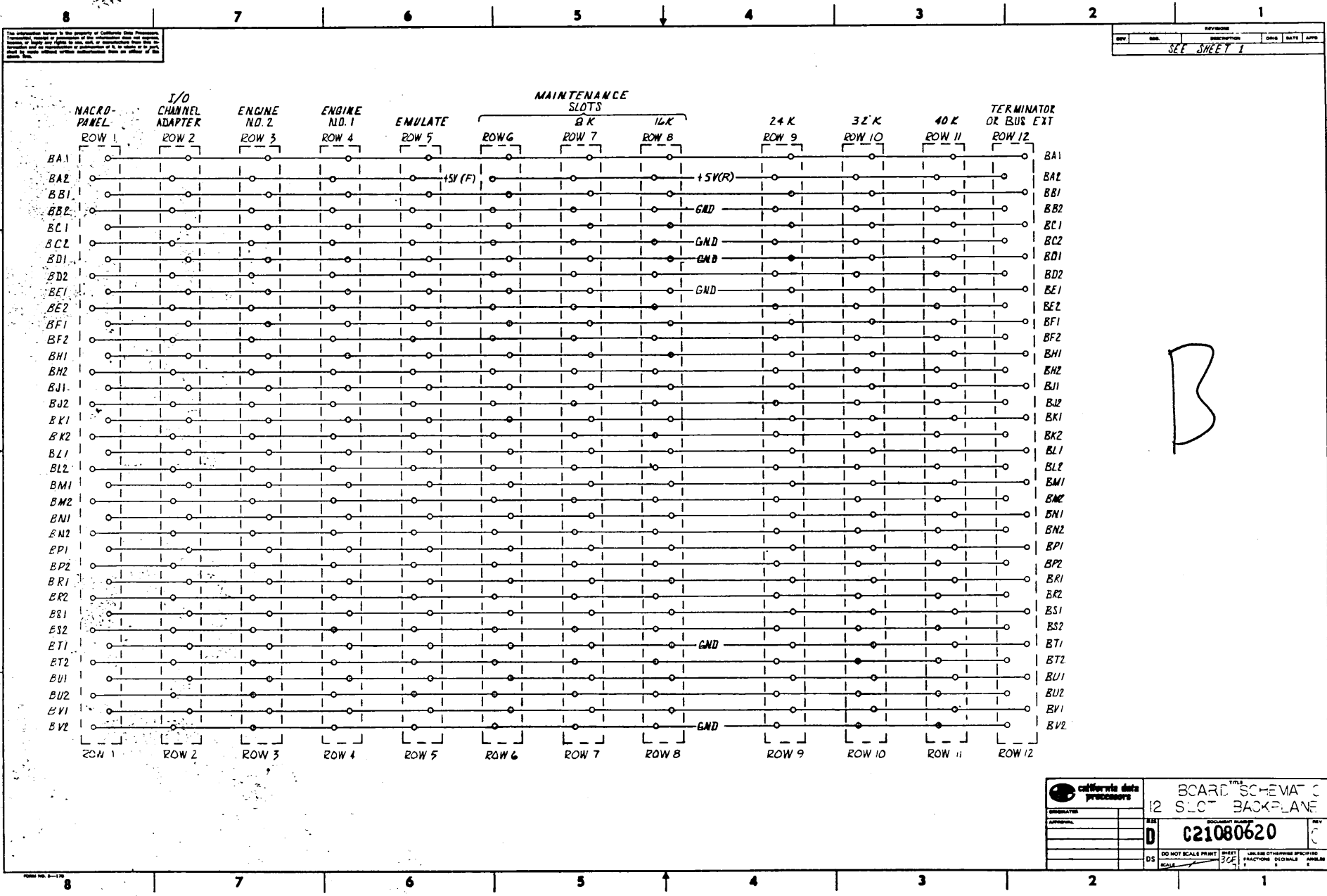
C

B

A

D

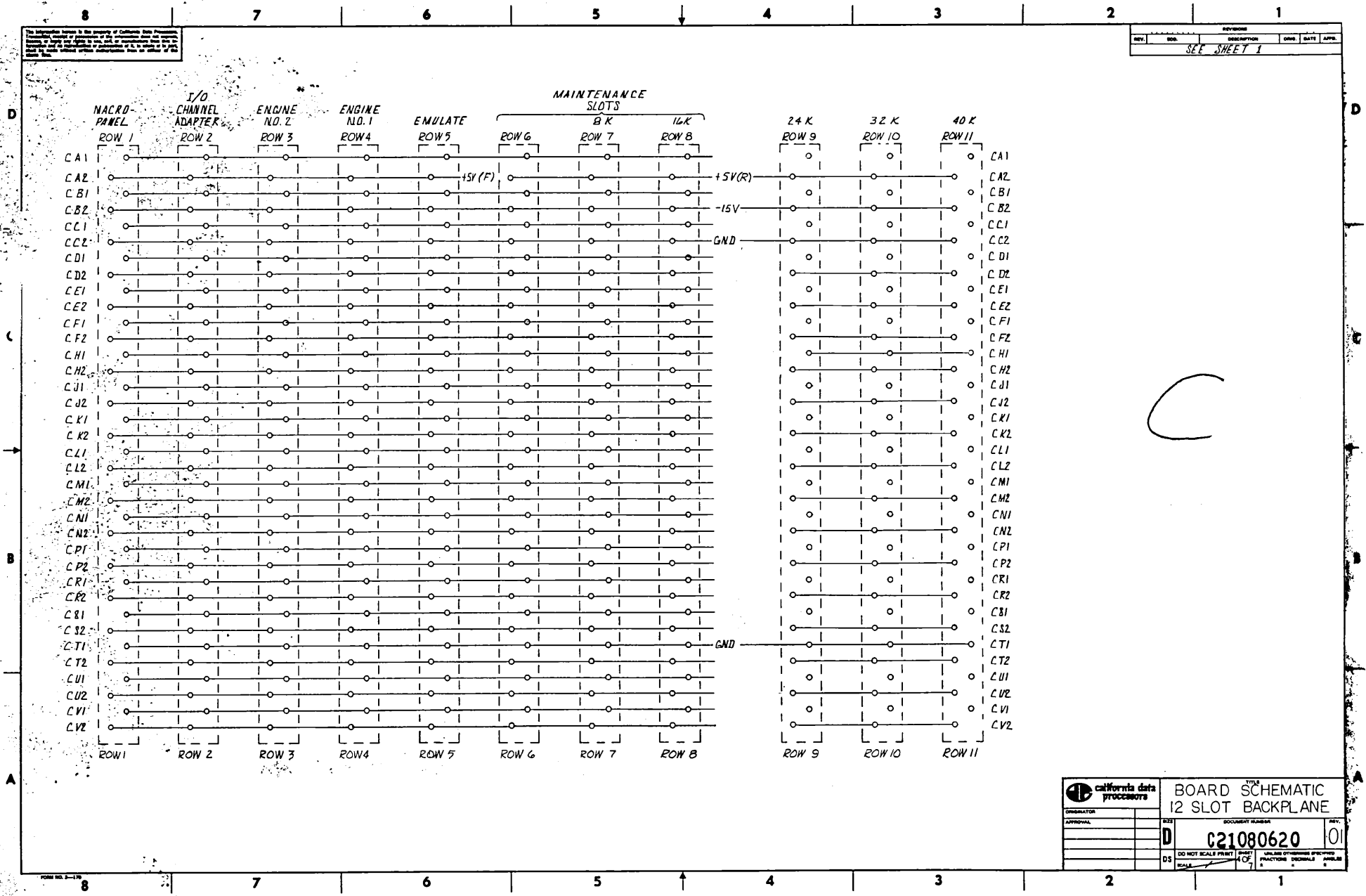
A



 california data processors	BOARD SCHEMATIC	
	12 SLOT BACKPLANE	
DRAWN BY APPROVED BY	DOCUMENT NUMBER D 021080620	REV C
DS	DO NOT SCALE PRINT SCALE	UNLESS OTHERWISE SPECIFIED FRACTIONS DECIMALS ANGLES

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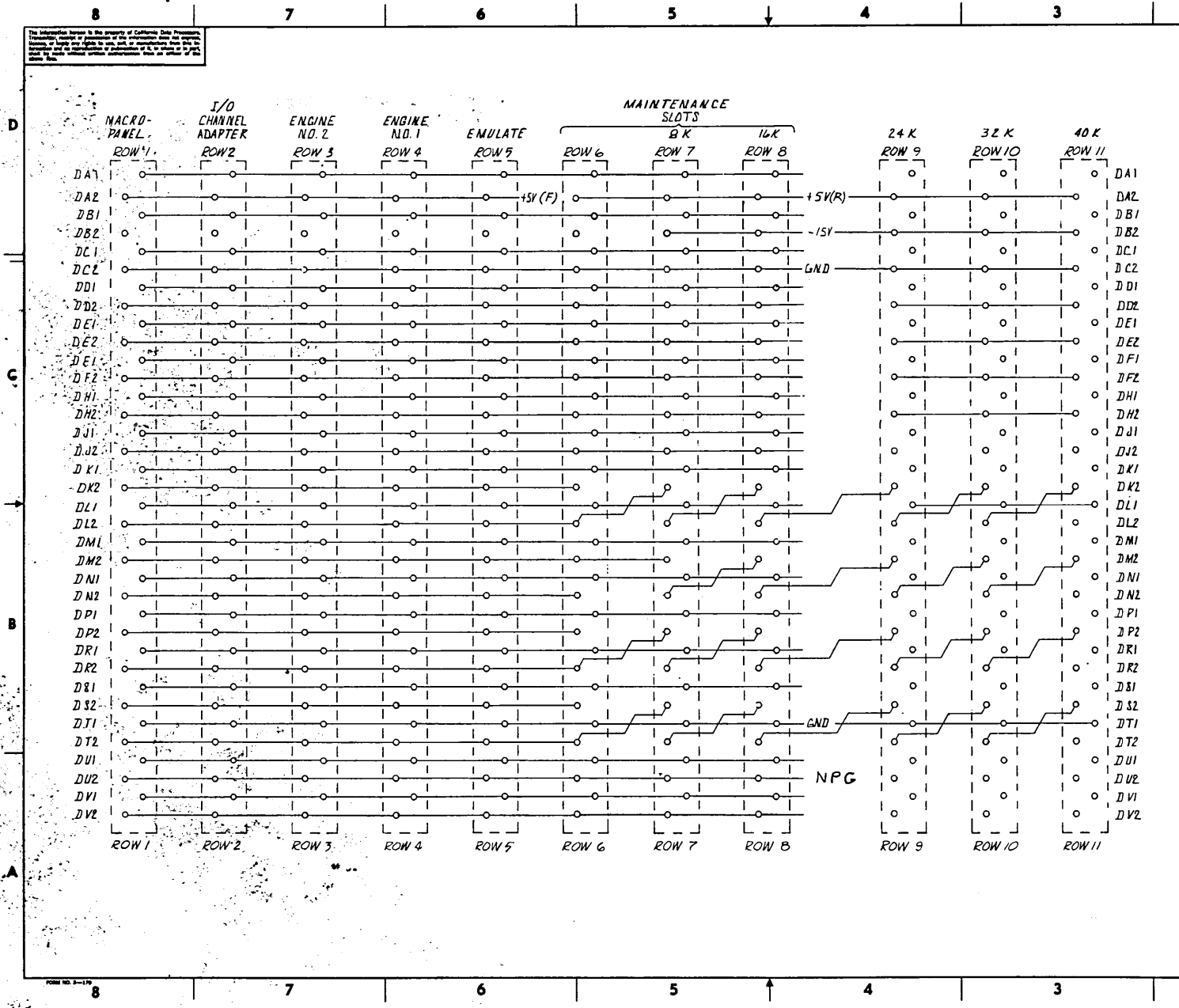
REVISION				
REV.	NO.	DESCRIPTION	DATE	APP.
		SEE SHEET 1		



		BOARD SCHEMATIC 12 SLOT BACKPLANE	
ORIGINATOR APPROVAL	DATE D	DOCUMENT NUMBER 021080620	REV. 01
DO NOT SCALE PRINT		VALUES OTHER THAN SPECIFIED FACTORS DECIMALS UNLESS OTHERWISE INDICATED	

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REVISE		DESCRIPTION	DATE	APP.
REV.	NO.			
		SEE SHEET 1		

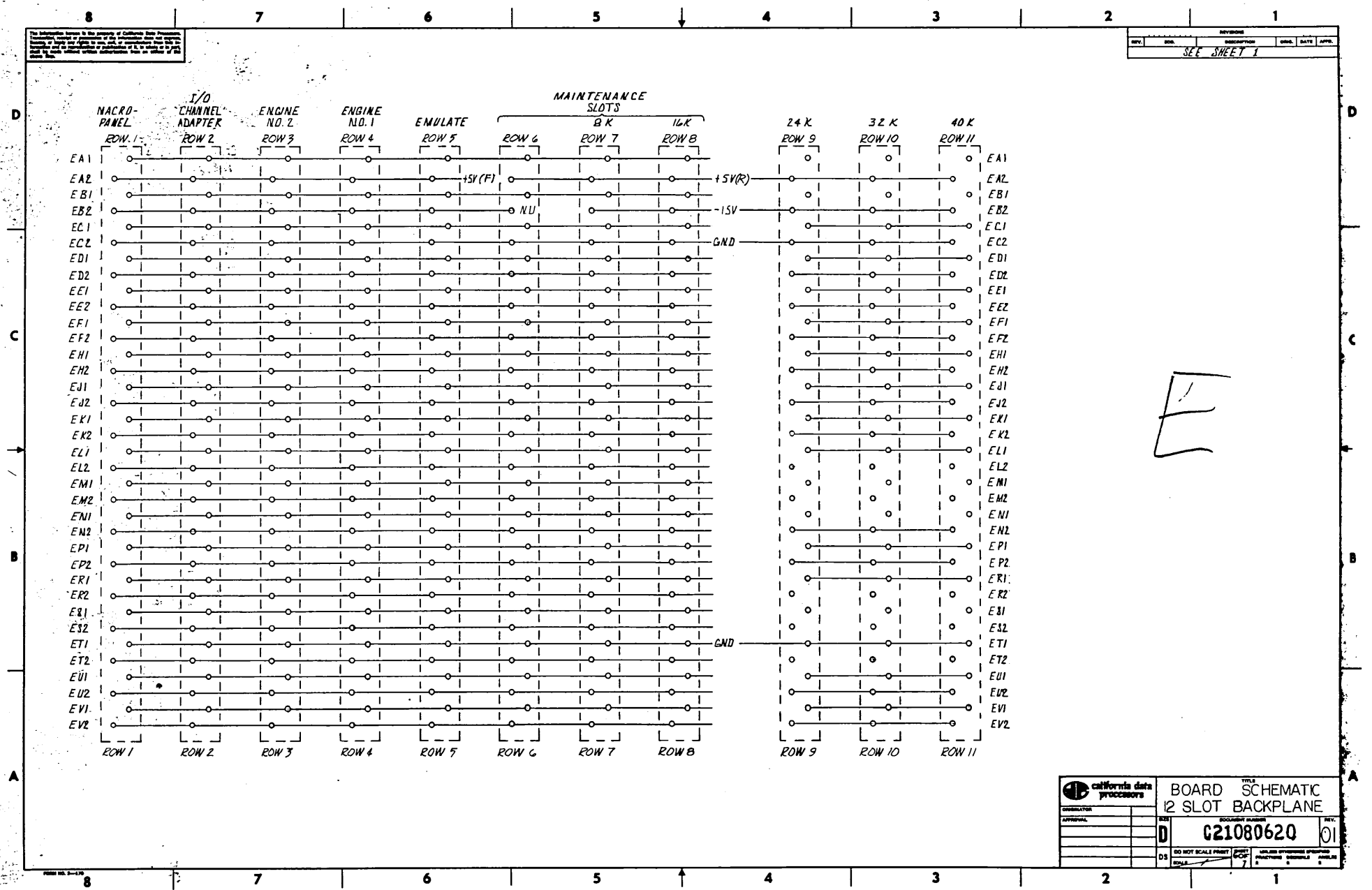


		BOARD SCHEMATIC I2 SLOT BACKPLANE	
OPERATOR		REV.	01
APPROVAL		DOCUMENT NUMBER	D 021080620
DO NOT SCALE PRINT		UNLESS OTHERWISE SPECIFIED	
SCALE		FRACTIONS DECIMALS ANGLES	

D

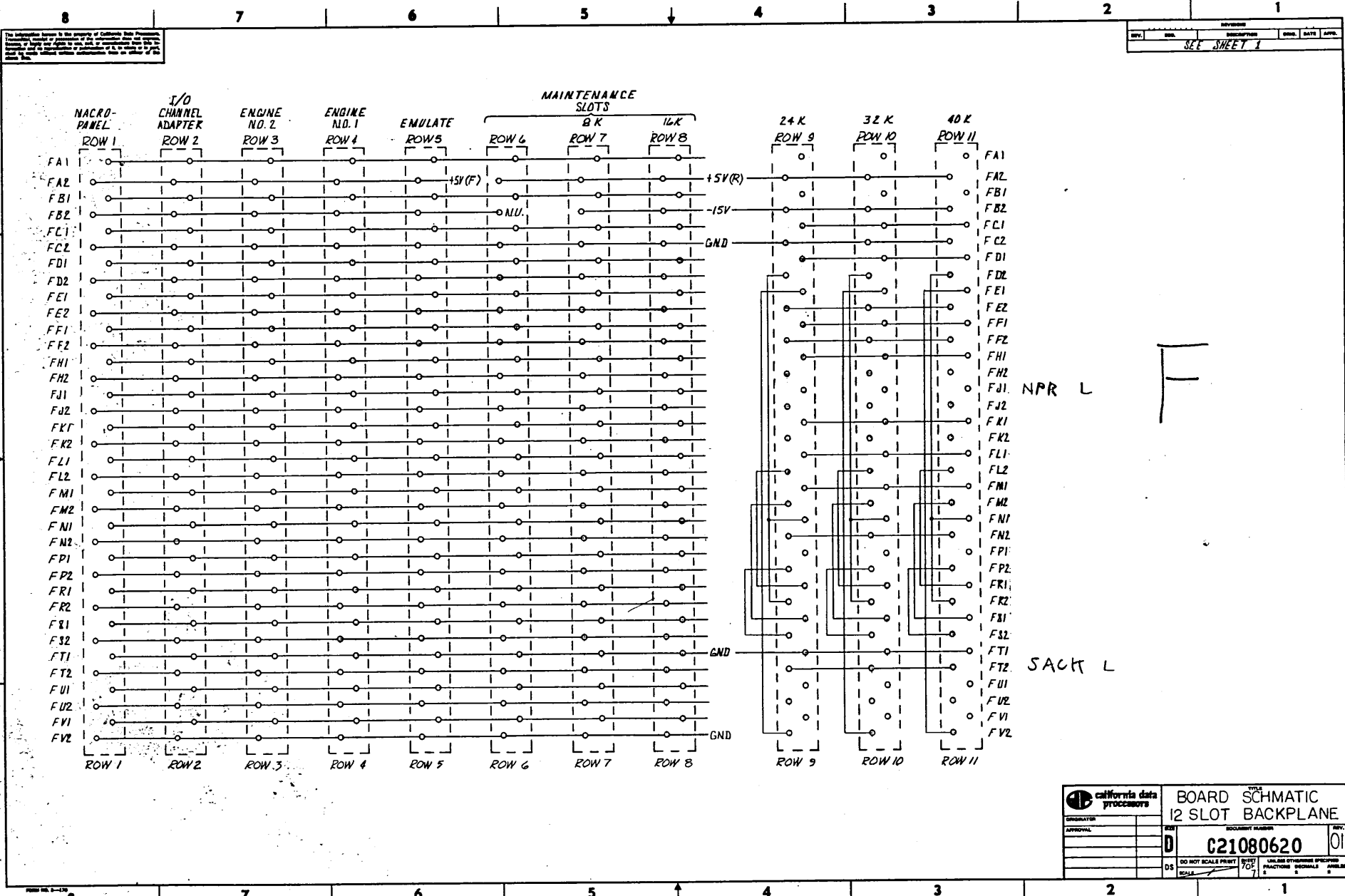
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REV.		DESCRIPTION		CHG.	DATE	APP.
		SEE SHEET 1				



E

		BOARD SCHEMATIC 12 SLOT BACKPLANE	
COORDINATOR APPROVAL	DESIGNED BY DRAWN BY	DOCUMENT NUMBER G21080620	REV. 01
DO NOT SCALE PRINT SCALE	DATE 7	CHECKED BY 7	APPROVED BY 7



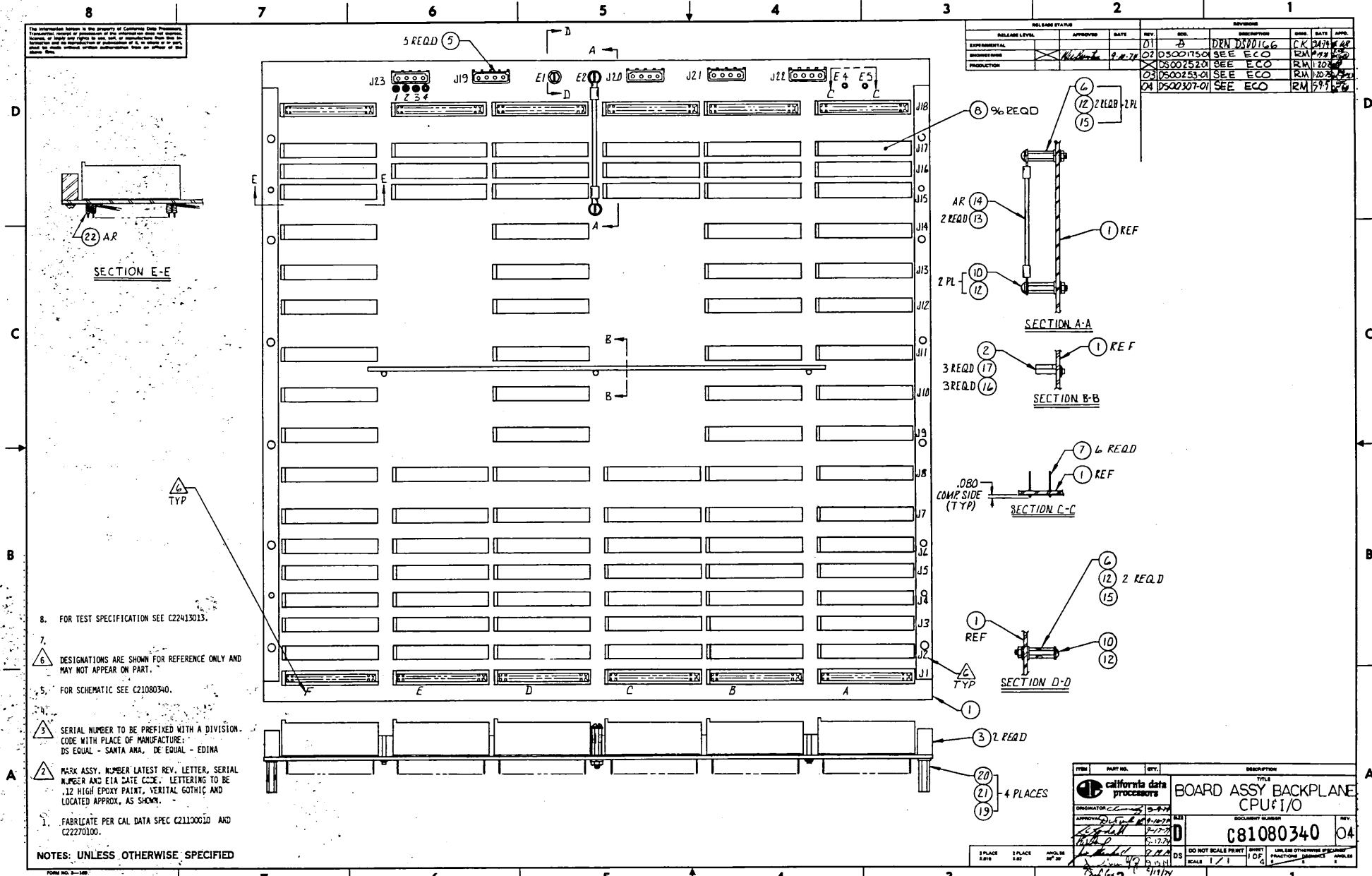
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REV.	DATE	DESCRIPTION	BY	DATE	APP.
		SEE SHEET 1			

		BOARD SCHMATIC 12 SLOT BACKPLANE	
ORIGINAL APPROVAL _____ _____	REV. D	DOCUMENT NUMBER C21080620	REV. 01
DO NOT SCALE PRINT SCALE _____		DATE 10/2/72	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES ARE TO BE USED

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RELEASE STATUS			REVISIONS					
RELEASE LEVEL	APPROVED	DATE	REV.	BY	DESCRIPTION	CHK	DATE	APP.
EXPERIMENTAL			01	RS	DRN D37D166	CK	1/11/72	AR
PRODUCTION		1/11/72	02	DS001564	SEE ECO	RM	1/11/72	
			03	DS002520	SEE ECO	RM	1/11/72	
			04	DS00253-01	SEE ECO	RM	1/11/72	
			04	DS00307-01	SEE ECO	RM	5/9/72	



- 8. FOR TEST SPECIFICATION SEE C22413013.
- 7. DESIGNATIONS ARE SHOWN FOR REFERENCE ONLY AND MAY NOT APPEAR ON PART.
- 5. FOR SCHEMATIC SEE C21080340.
- 1. SERIAL NUMBER TO BE PREFIXED WITH A DIVISION CODE WITH PLACE OF MANUFACTURE: DS EQUAL - SANTA ANA, DE EQUAL - EDINA
- 2. MARK ASSY. NUMBER LATEST REV. LETTER, SERIAL NUMBER AND EIA DATE CODE. LETTERING TO BE .12 HIGH EPOXY PAINT, VERTICAL GOTHIC AND LOCATED APPROX. AS SHOWN.
- 3. FABRICATE PER CAL DATA SPEC C21100010 AND C22270100.

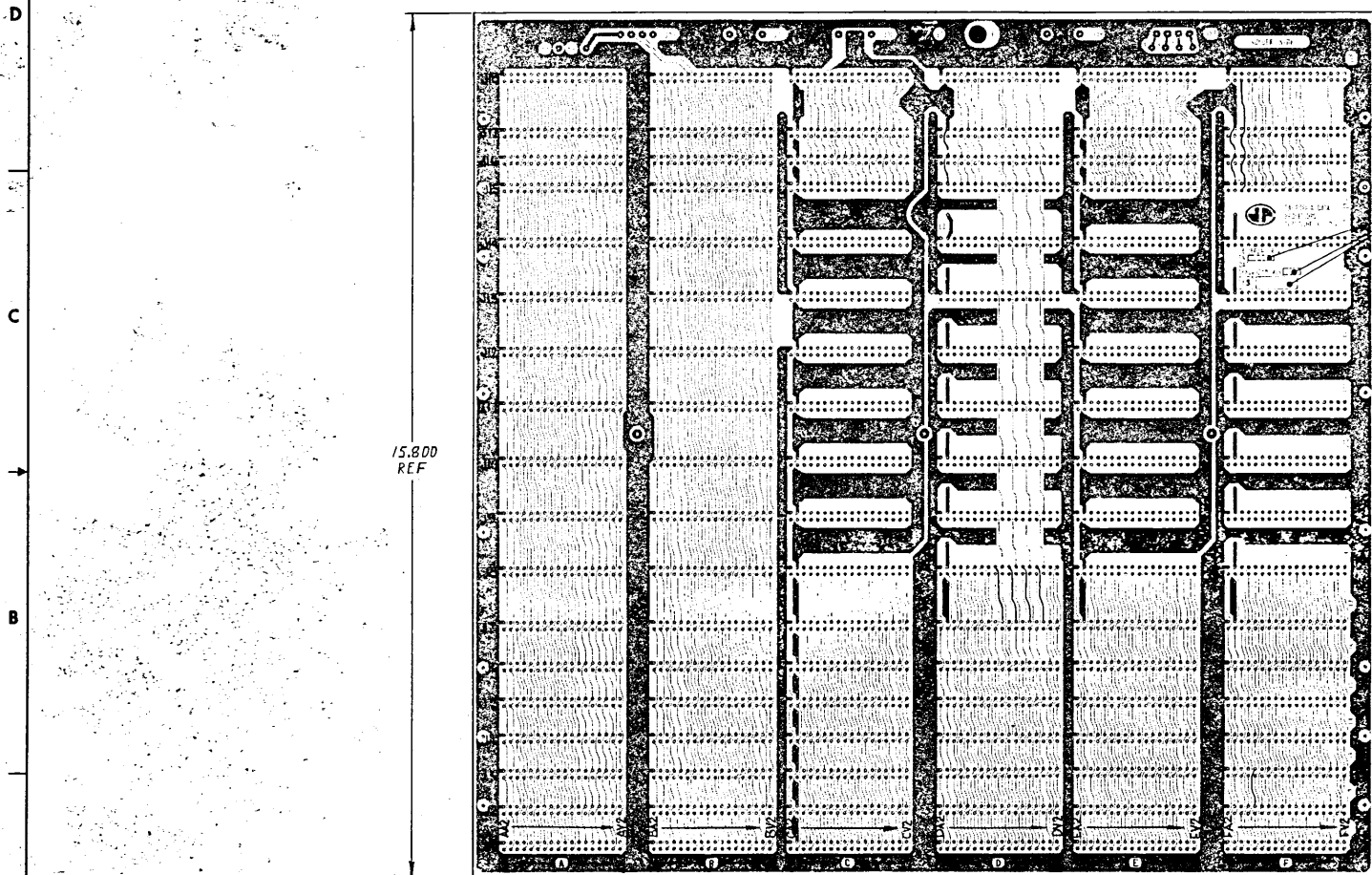
NOTES: UNLESS OTHERWISE SPECIFIED

ITEM	PART NO.	QTY.	DESCRIPTION
BOARD ASSY BACKPLANE CPU I/O			
ORIGINATOR: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DATE: 1-11-72	REV: D DOCUMENT NUMBER: C81080340 REV: 04	UNLESS OTHERWISE SPECIFIED FRACTIONS DIMENSIONS ANGLES	
SPACE 2.00 SPACE 2.00 HOLE 3/32	DO NOT SCALE PRINT SCALE 1/1	UNLESS OTHERWISE SPECIFIED FRACTIONS DIMENSIONS ANGLES	

8 7 6 5 4 3 2 1

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REVISIONS				
REV.	NO.	DESCRIPTION	DATE	APPR.
SEE SHEET 1				



15.800
REF

16.525
REF

SOLDER SIDE SHOWN


		TITLE BOARD ASSY BACKPLANE CPU I/O	
		DOCUMENT NUMBER CS-100740	REV. 04
ORIGINATOR APPROVAL	DESIGNED D	DRAWN CS-100740	CHECKED CS-100740
DATE SCALE 1/1	SHEET OF 2/4	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	

8 7 6 5 4 3 2 1

LIST OF MATERIALS

ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		C66080340	P.W. BOARD, BACKPLANE - C.P.U. AND I/O			
2	1		C67680007	SUPPORT BAR, BACKPLANE			
3	2		C67680019	SUPPORT, BACKPLANE			
4							
5	5	J19 - J23	C56150650	HEADER, PIN, 4 CONTACT		AMP	350211-1
6	A/R	E1, 2, 3	C61541310	STANDOFF, .25 HEX X .50 LG		AMATOM	9739-B-0832
7	A/R	E4,5,J23-1 THRU J23-4	C56233152	POST, WIRE WRAP		SAE	CB250-LS
8	96		C56131400	CONNECTOR, WIRE WRAP		CAL DATA	
9							
10	A/R		C61431080	SCREW, PAN HD., 8-32 X .375 LG			
11							
12	A/R		C61241112	WASHER, INT. TOOTH, #8 STD.			
13	A/R		C56214572	TERMINAL RING, 14-16 AWG #10		ETC	B-237-10
14	AR		C37211390	WIRE, 14 AWG, STRANDED, WHT			
15	A/R		C61532010	NUT, HEX, 8-32			
16	A/R		C61281030	SPEED NUT, PUSH-ON		TINNERMAN	C12042-017-4
17	A/R		C61221010	WASHER, FLAT #6 STD., NYLON			
18	A/R						
19	A/R		C61541320	STANDOFF, .25 HEX X .75 LONG		AMATOM	9741-SS-0632
20	A/R		C61212010	WASHER, FLAT, #6 STD.			
21	A/R		C61241110	WASHER, INT. TOOTH, #6 STD.			
22	AR		C37002440	WIRE, 30 AWG, YEL		STORM	30-130-1422-YEL

FORM NO. 3-172

ORIGINATOR <i>Kennedy</i>	9-4-74	 california data processors	TITLE	BOARD ASSEMBLY, BACKPLANE - C.P.U. AND I/O
APPROVAL <i>[Signature]</i>	9-10-74		SIZE	DOCUMENT NUMBER
<i>[Signature]</i>	9-17-74		B	CS1080340
<i>[Signature]</i>	9-17-74		DS	SHEET 4 OF 4 PAGE
<i>[Signature]</i>	9-19-74		REV.	04
<i>[Signature]</i>	9-19-74			

And Cox

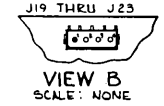
9/19/74

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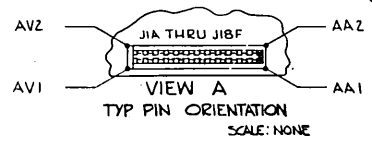
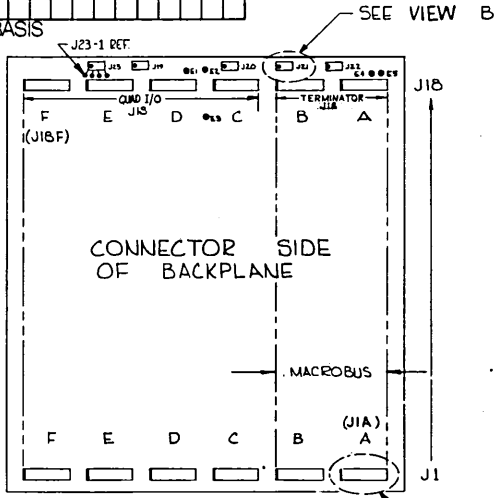
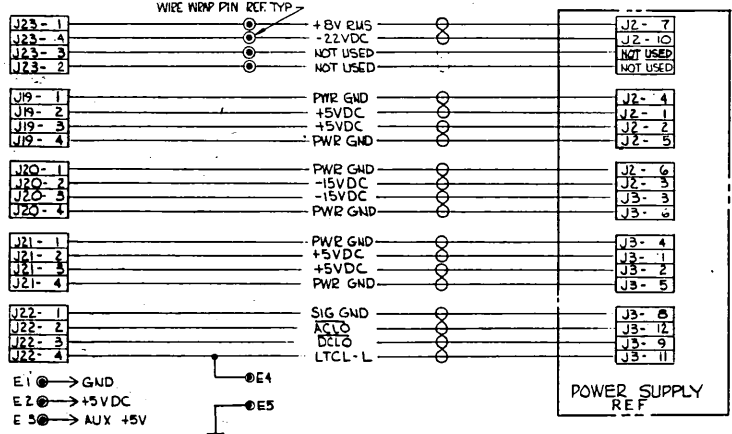
SHEET NUMBERS

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RELEASE STATUS				REVISION						
RELEASE LEVEL	APPROVED	DATE	REV	ECO	DESCRIPTION	CHK	DATE	APPD		
EXPERIMENTAL			01		DRN D500177	GW	1/18/81			
ENGINEERING										
PRODUCTION										



REVISION LOG: REVISIONS TO THIS DOCUMENT WILL BE MAINTAINED ON A PER SHEET BASIS



4. MEMORY ADDRESSES SHOWN ARE WITH RESPECT TO BK MODULES...
3. ON MACROPANEL ONLY, TERM IS CALLED BG6-IN.
2. ON MACROPANEL ONLY, TERM IS CALLED BG6-OUT.
1. FOR BOARD ASSEMBLY SEE C81080340.

NOTES: UNLESS OTHERWISE SPECIFIED

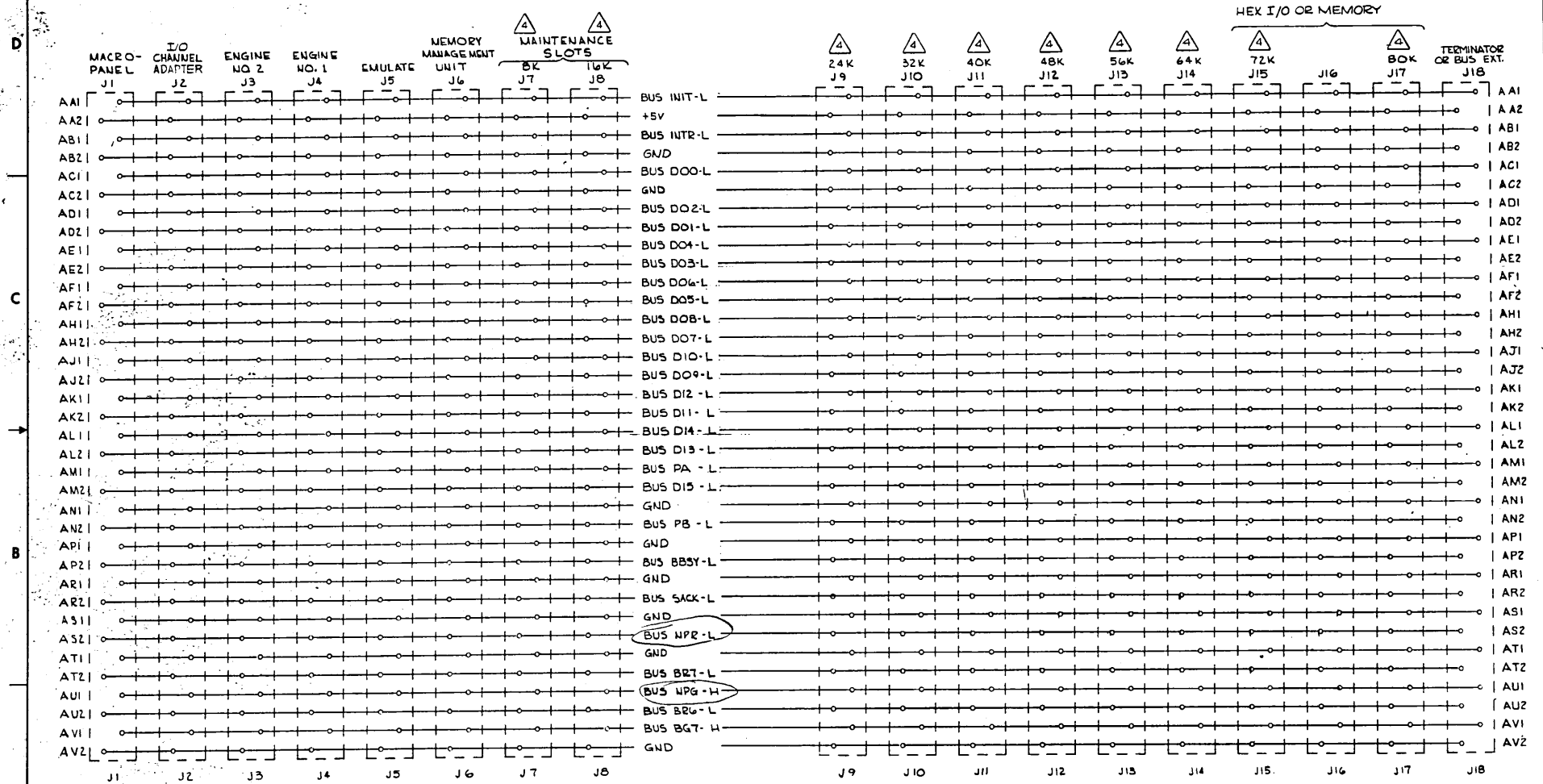
ITEM	PART NO	QTY	DESCRIPTION																													
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	TITLE	REV																														
	BOARD SCHEMATIC	01																														
BACKPLANE CPU & I/O																																
DOCUMENT NUMBER																																
D C21080340																																
DATE	BY	CHK																														
8-12-80	W. J. ...	GW																														
10-27-80	...																															
11-2-80	...																															
11-14-80	...																															
DO NOT SCALE PRINT			PAGE																													
SCALE NONE			OF 7																													

3 PLACE	3 PLACE	ANGLES	PAGE	UNLESS OTHERWISE SPECIFIED
1 DIA	1 DIA	PER IN	OF 7	ANGLES

8 7 6 5 4 3 2 1

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REV.	DATE	DESCRIPTION	ENGR.	DATE	APP.
		SEE SHEET 1			

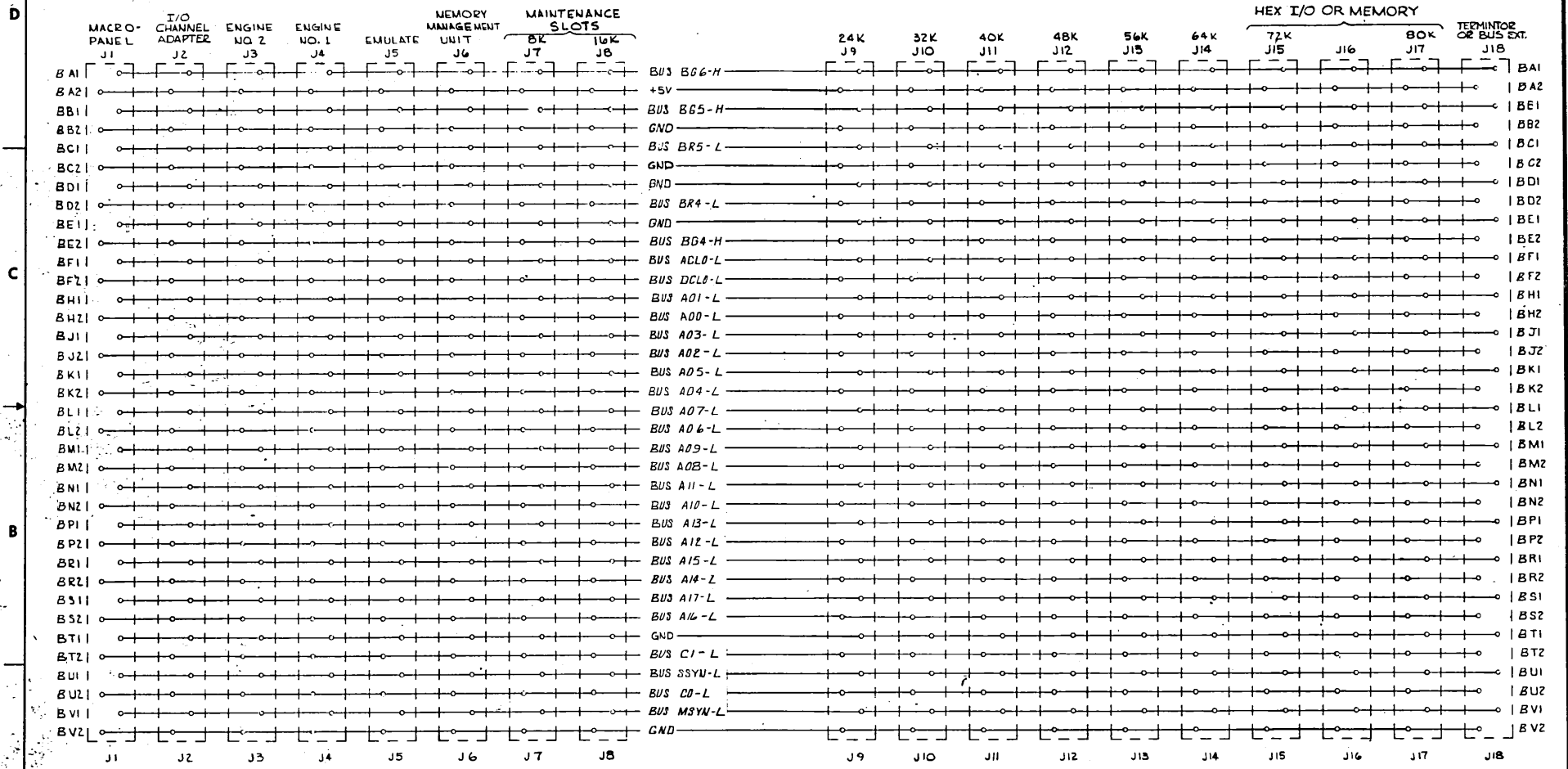


		TITLE BOARD SCHEMATIC, BACKPLANE CPU #10	
OPERATOR G. W. L. AND 8/1/74	SIZE D	DOCUMENT NUMBER C21080340	REV. 01
APPROVAL	DATE	DO NOT SCALE PRINT	CHECKS BY: [] PRACTICE: [] DIMENSIONS: []
DS	SCALE NONE	POST	2 7

FORM NO. 8-178 8 7 6 5 4 3 2 1

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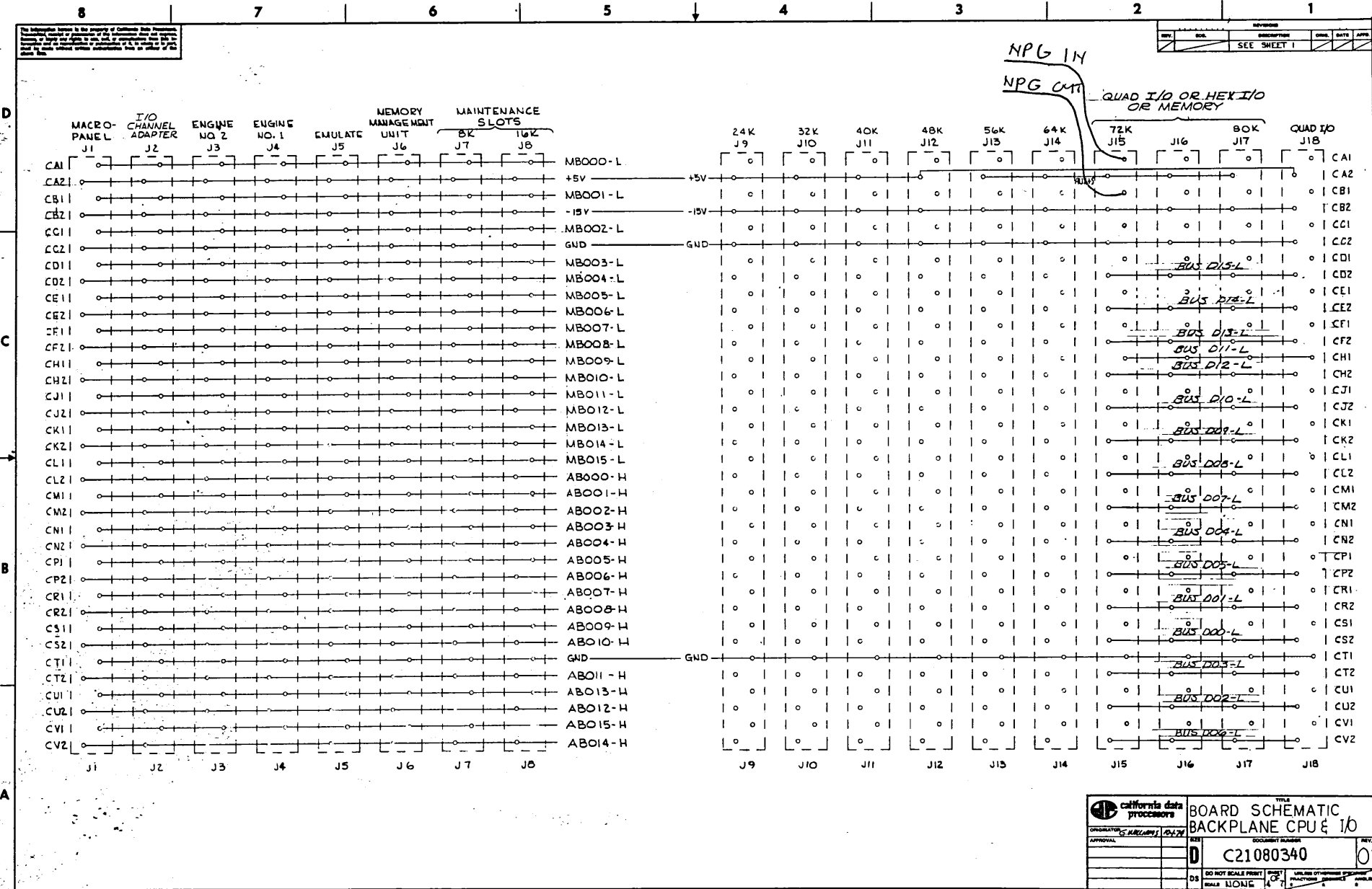
REVISIONS					
REV.	NO.	DESCRIPTION	DATE	APP.	BY
		SEE SHEET 1			



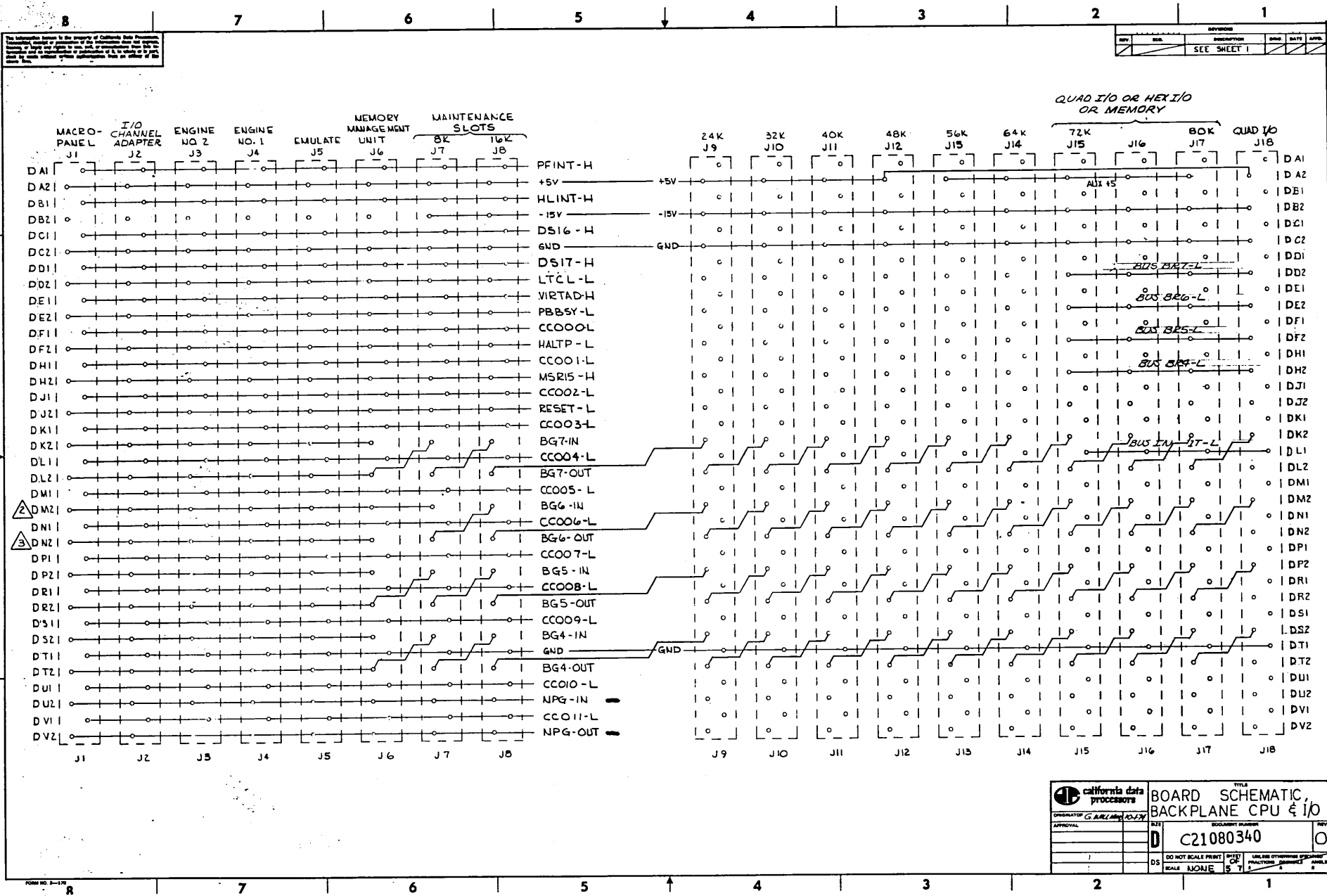
CALIFORNIA DATA PROCESSORS OPERATOR: G. NIKLMAJLOVIC APPROVAL:	TITLE BOARD SCHEMATIC BACKPLANE CPU & I/O		REV. 01
	DOCUMENT NUMBER C21080340		
DO NOT SCALE PRINT SCALE NONE	SIZE D	SHEET 5 OF 7	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

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REVISION				
REV.	NO.	DESCRIPTION	DATE	APP.
		SEE SHEET 1		



california data processors	TITLE BOARD SCHEMATIC BACKPLANE CPU & I/O	
	OPERATOR: SKL/AVT/10/24	DOCUMENT NUMBER: C21080340
APPROVAL:	DESIGNED BY: D	CHECKED BY: 01
DATE:	DO NOT SCALE PRINT:	UNLESS OTHERWISE SPECIFIED: DIMENSIONS IN INCHES
SCALE: NONE	SHEET:	TOTAL SHEETS:



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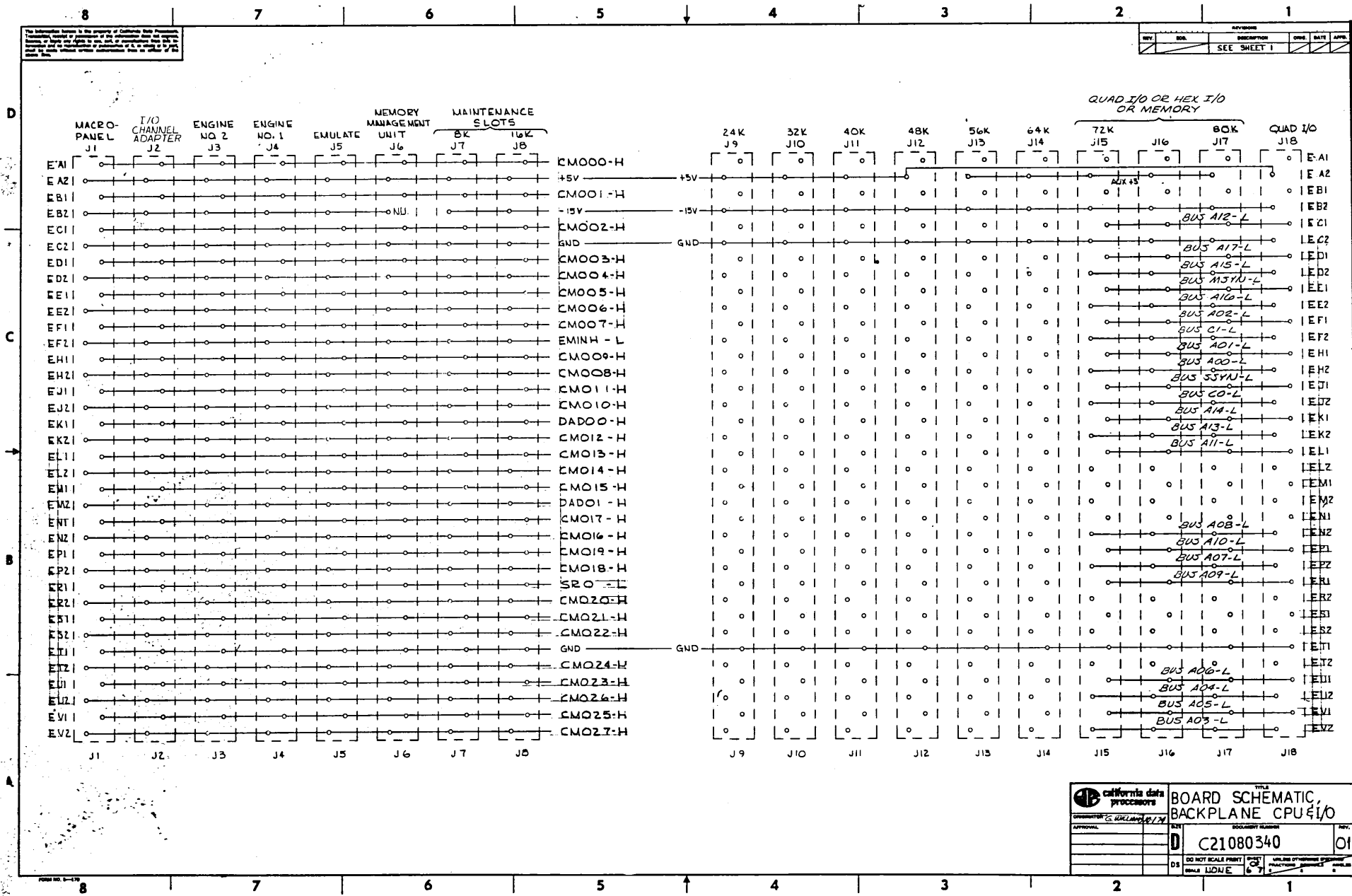
REV.	DATE	DESCRIPTION	BY	CHKD	APPD
		SEE SHEET 1			

QUAD I/O OR HEX I/O OR MEMORY

california data PROCESSORS	TITLE BOARD SCHEMATIC, BACKPLANE CPU & I/O		REV.
	OPERATOR G. ARIZONA	DESIGNED BY G. ARIZONA	DATE 01
APPROVAL D	CHECKED BY D	DATE DS	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES SCALE NONE

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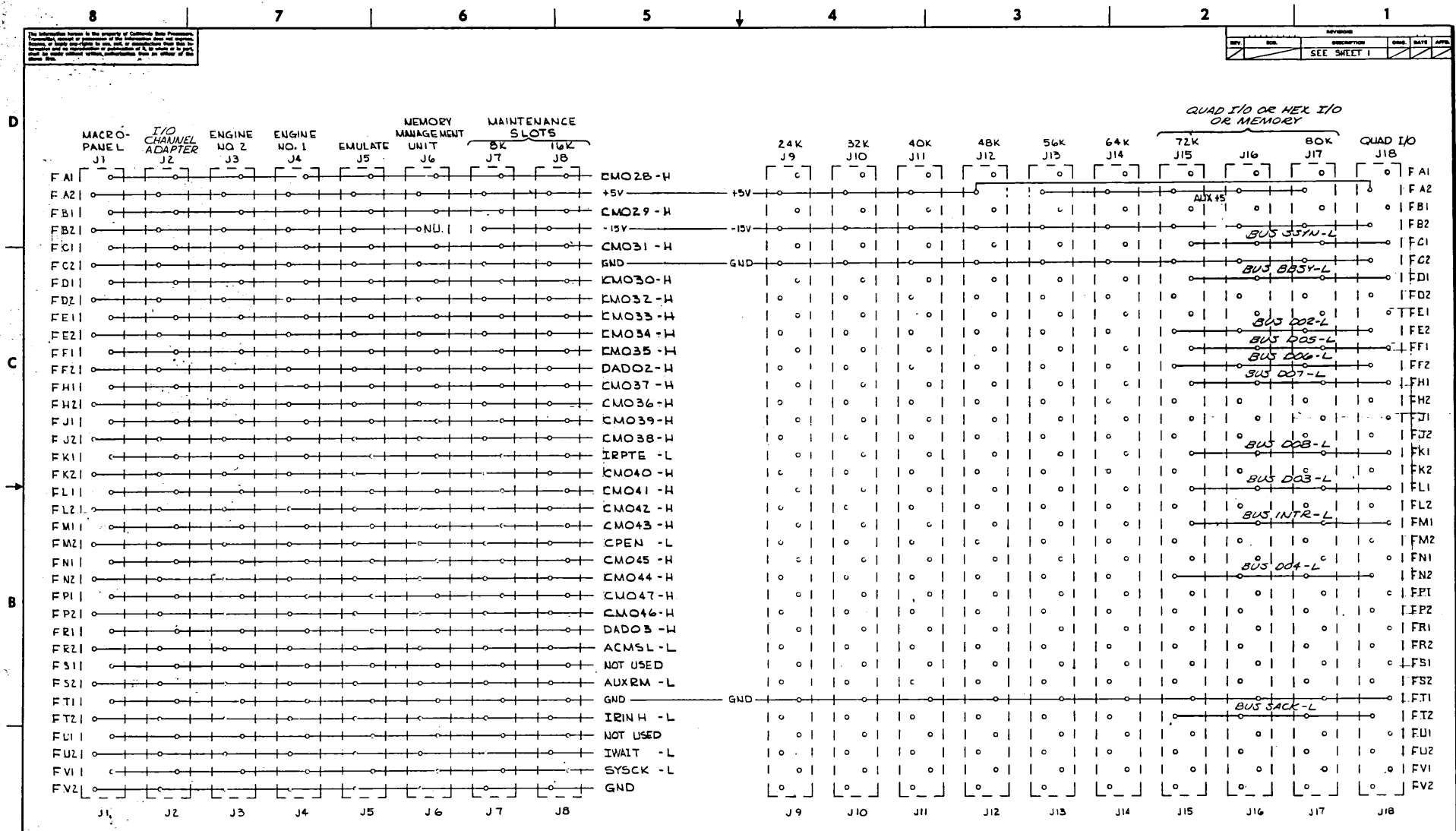
REVISION				
REV.	DATE	DESCRIPTION	BY	APP.
SEE SHEET 1				



	BOARD SCHEMATIC, BACKPLANE CPU I/O	
	DOCUMENT NUMBER D 21080340	REV. 01
APPROVAL _____	DO NOT SCALE POINTS DIMENSIONS SHOWN IN PARENTS	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES

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REVISIONS					
REV	NO.	DESCRIPTION	DATE	BY	APPV
		SEE SHEET 1			



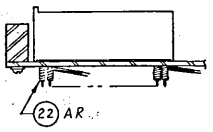
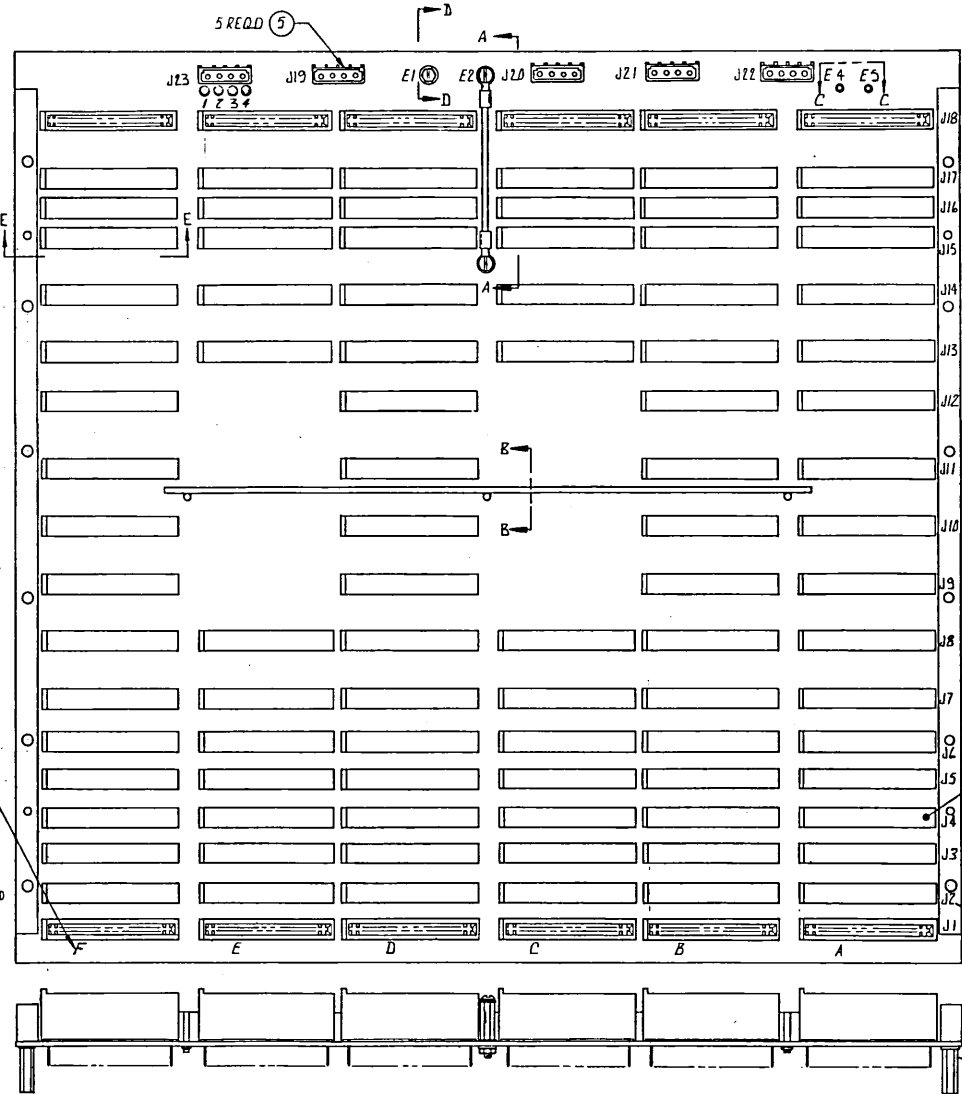
NPR
(A5)

california data processors OPERATOR G. H. (A5) 10/77 APPROVAL:	TITLE BOARD SCHEMATIC, BACKPLANE CPU & I/O	
	PART NUMBER D C21080340	REV. 01
DS DO NOT SCALE PRINT SCALE 1:1000	PLOT UNITS: INCHES ANGLE: 90	DATE 10/77

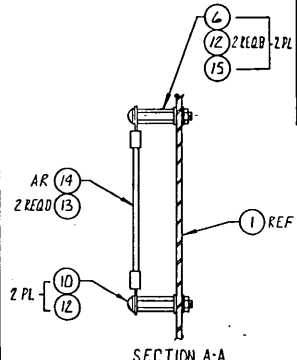
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2 1

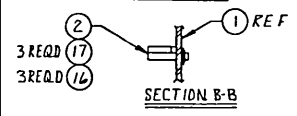
RELEASE STATUS				REVISIONS			
RELEASE LEVEL	APPROVED	DATE	REV	ECO	DESCRIPTION	DATE	APPR.
EXPERIMENTAL			01	H	DEL DS00223	08/18/74	
PRODUCTION			11-74	OZ	DS00223-01 SFF E-CO	11/17/74	



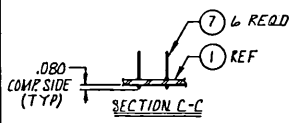
SECTION E-E



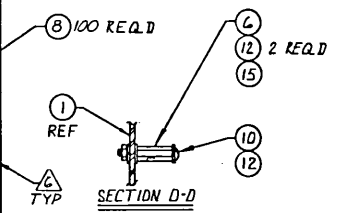
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

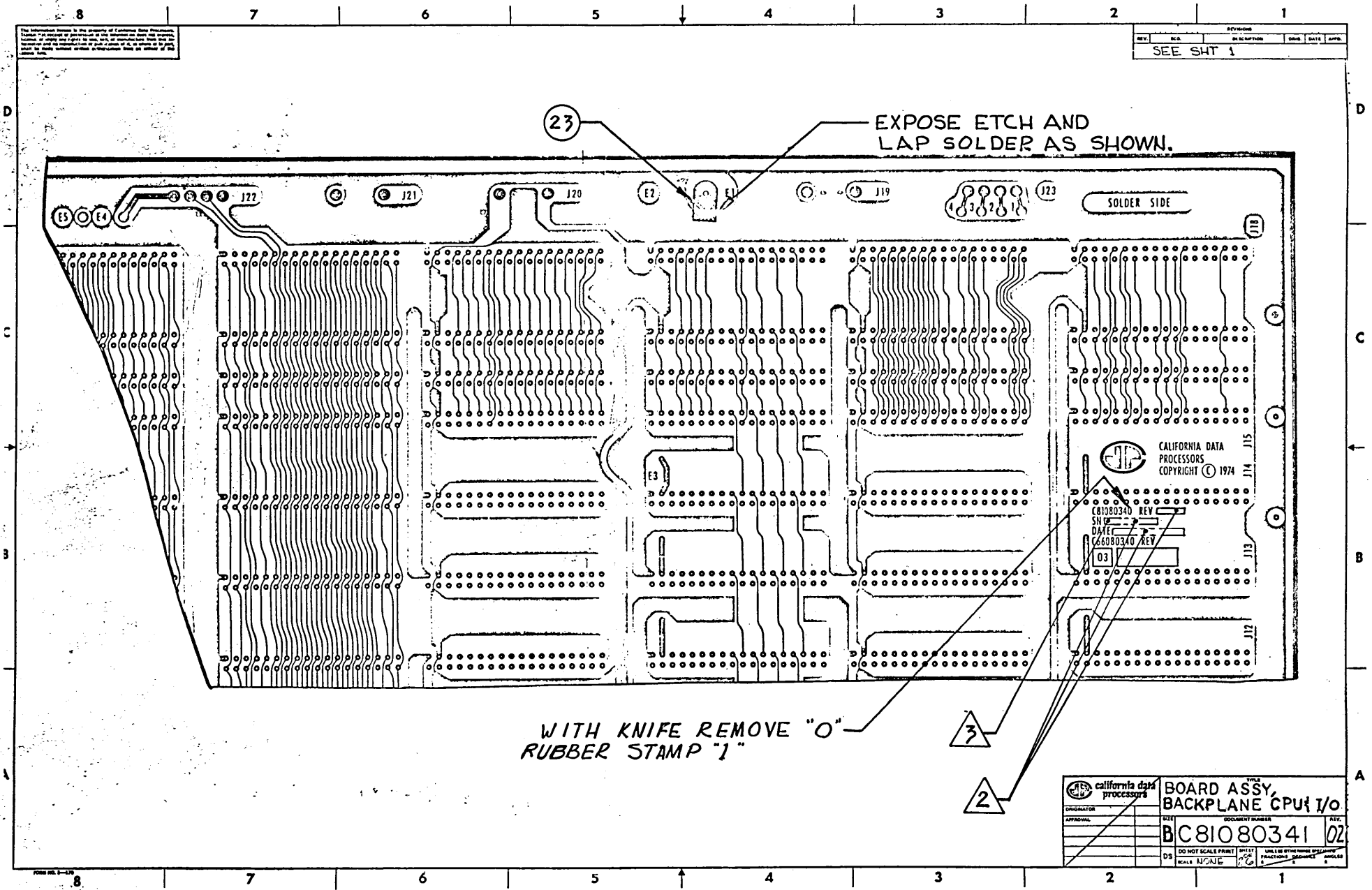
- 6. DESIGNATIONS ARE SHOWN FOR REFERENCE ONLY AND MAY NOT APPEAR ON PART.
- 5. FOR SCHEMATIC SEE C21080340.
- 4. FOR PRODUCT SPECIFICATION C22410014.
- 3. SERIAL NUMBER TO BE PREFIXED WITH A DIVISION CODE WITH PLACE OF MANUFACTURE: DS EQUAL - SANTA ANA DE EQ: A - EDINA
- 2. MARK ASSY NUMBER LATEST REV LETTER, SERIAL NUMBER AND EIA DATE CODE. LETTERING TO BE .12 HIGH BLACK EPOXY PAINT, VERITAL GOTHIC AND LOCATED APPROX AS SHOWN.
- 1. FABRICATE PER CAL DATA SPEC C211300100 & C22270100.

NOTES: UNLESS OTHERWISE SPECIFIED

ITEM	PART NO.	QTY.	DESCRIPTION
1			BOARD ASSY BACKPLANE CPU & I/O
OPERATOR: GATES 1-874 APPROVED: [Signature] 11-9-74 DATE: 11-17-74			
DOCUMENT NUMBER C81080341			
DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED FRACTIONS DECIMALS ANGLES			

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REVISIONS				
REV.	BY	DESCRIPTION	DATE	APP.
SEE SHT 1				



california data processors		BOARD ASSY. BACKPLANE CPU I/O	
DESIGNATOR	SIZE	DOCUMENT NUMBER	REV.
APPROVAL		C81080341	02
DATE	DS	DO NOT SCALE PRINT	SCALE NONE
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	

8 7 6 5 4 3 2 1

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REVISIONS				
REV.	NO.	DESCRIPTION	DATE	APPR.
SEE SHT 1				

ORIGIN	DESTINATION	FUNCTION
J18BH2	J18EH2	A00-L
J18BH1	J18EH1	A01-L
J18BJ2	J18EF1	A02-L
J18BJ1	J18EV2	A03-L
J18BK2	J18EU2	A04-L
J18BK1	J18EV1	A05-L
J18BL2	J18EU1	A06-L
J18BL1	J18EP2	A07-L
J18BM2	J18EN2	A08-L
J18BM1	J18ER1	A09-L
J18BN2	J18EP1	A10-L
J18BN1	J18EL1	A11-L
J18BP2	J18EC1	A12-L
J18BP1	J18EK2	A13-L
J18BR2	J18EK1	A14-L
J18BR1	J18ED2	A15-L
J18BS2	J18EE2	A16-L
J18BS1	J18ED1	A17-L
J18AC1	J18CS2	D00-L
J18AD2	J18CR2	D01-L
J18AD1	J18CU2	D02-L
J18CU2	J18FE2	D02-L
J18AE2	J18CT2	D03-L
J18CT2	J18FL1	D03-L
J18AE1	J18CN2	D04-L
J18CN2	J18FN2	D04-L
J18AF2	J18CP2	D05-L
J18CP2	J18FF1	D05-L
J18AF1	J18CV2	D06-L
J18CV2	J18FF2	D06-L
J18AH2	J18CM2	D07-L
J18CM2	J18FH1	D07-L
J18AH1	J18CL2	D08-L
J18CL2	J18FK1	D08-L

ORIGIN	DESTINATION	FUNCTION
J18AJ2	J18CK2	D09-L
J18AJ1	J18CJ2	D10-L
J18AK2	J18CH1	D11-L
J18AK1	J18CH2	D12-L
J18AL2	J18CF2	D13-L
J18AL1	J18CE2	D14-L
J18AM2	J18CD2	D15-L
J18AA1	J18DL1	INIT-L
J18AB1	J18FM1	INTR-L
J18AP2	J18FD1	BBSY-L
J18AR2	J18FT2	SACK-L
J18AT2	J18DD2	BR7
J18AU2	J18DE2	BR6
J18BC1	J18DF2	BR5
J18BD2	J18DH2	BR4
J18BT2	J18EF2	C1-L
J18BU1	J18EJ1	SSYN-L
J18EJ1	J18FC1	SSYN-L
J18FC1	J17FC1	SSYN-L
J17FC1	J16FC1	SSYN-L
J16FC1	J15FC1	SSYN-L
J18BU2	J18EJ2	C0-L
J18BV1	J18EE1	MSYN-L
J18CA2	J18DA2	+5V
J18AA2	J18BA2	+5V
J15EB1	J15DV1	SSYN INH-L
J16EB1	J16DV1	SSYN INH-L
J17EB1	J17DV1	SSYN INH-L
J18EB1	J18DV1	SSYN INH-L
J15ES2	J15DF1	SELECT 0-H
J16ES2	J16DF1	SELECT 0-H
J17ES2	J17DF1	SELECT 0-H
J18ES2	J18DF1	SELECT 0-H
J15ET2	J15DJ1	SELECT 2-H

ORIGIN	DESTINATION	FUNCTION
J16ET2	J16DJ1	SELECT 2-H
J17ET2	J17DJ1	SELECT 2-H
J18ET2	J18DJ1	SELECT 2-H
J15ER2	J15DE1	SELECT 4-H
J16ER2	J16DE1	SELECT 4-H
J17ER2	J17DE1	SELECT 4-H
J18ER2	J18DE1	SELECT 4-H
J15ES1	J15DC1	SELECT 6-H
J16ES1	J16DC1	SELECT 6-H
J17ES1	J17DC1	SELECT 6-H
J18ES1	J18DC1	SELECT 6-H
J15EM1	J15DH1	IN-H
J16EM1	J16DH1	IN-H
J17EM1	J17DH1	IN-H
J18EM1	J18DH1	IN-H
J15EN1	J15DD1	OUT LOW-H
J16EN1	J16DD1	OUT LOW-H
J17EN1	J17DD1	OUT LOW-H
J18EN1	J18DD1	OUT LOW-H
J15EM2	J15DK1	OUT HIGH-H
J16EM2	J16DK1	OUT HIGH-H
J17EM2	J17DK1	OUT HIGH-H
J18EM2	J18DK1	OUT HIGH-H
J15FA1	J15DV2	BG OUT B
J16FA1	J16DV2	BG OUT B
J17FA1	J17DV2	BG OUT B
J18FA1	J18DV2	BG OUT B
J15FB1	J15DU2	BG IN A
J16FB1	J16DU2	BG IN A
J17FB1	J17DU2	BG IN A
J18FB1	J18DU2	BG IN A
J15FH2	J15CL1	INTR ENB B

E2	ETCH SURROUNDING E2, SOLDER SIDE	+5 V
----	-------------------------------------	------

california data processors OPERATOR APPROVAL	TITLE BOARD ASSY, BACKPLANE-CPU & I/O	SERIAL NUMBER B C81080341	REV. 02
	DO NOT SCALE PRINT SCALE: NONE		

8 7 6 5 4 3 2 1

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REV.	NO.	DESCRIPTION	ISS. DATE	APP.
SEE SHT 1				

ORIGIN	DESTINATION	FUNCTION
J16FH2	J16CL1	INTR ENB B
J17FH2	J17CL1	INTR ENB B
J18FH2	J18CL1	INTR ENB B
J15FK2	J15CJ1	INTR B
J16FK2	J16CJ1	INTR P
J17FK2	J17CJ1	INTR B
J18FK2	J18CJ1	INTR B
J17DB2	J16DB2	-15VDC
J16DB2	J15DB2	-15VDC
J17FB2	J16FB2	-15VDC
J16FB2	J15FB2	-15VDC
J15FU1	J15DN1	INTR A
J16FU1	J16DN1	INTR A
J17FU1	J17DN1	INTR A
J18FU1	J18DN1	INTR A
J15FV1	J15DM1	INTR ENB A
J16FV1	J16DM1	INTR ENB A
J17FV1	J17DM1	INTR ENB A
J18FV1	J18DM1	INTR ENB A
J15FU2	J15DJ2	BUS BRA
J16FU2	J16DJ2	BUS BRA
J17FU2	J17DJ2	BUS BRA
J18FU2	J18DJ2	BUS BRA
J15FP1	J15DJ2	BUS BRB
J16FP1	J16DJ2	BUS BRB
J17FP1	J17DJ2	BUS BRB
J18FP1	J18DJ2	BUS BRB
J7AU1	J7DU2	NPG
J18CU1	J23E1	+8VRMS
J6DL2	J7DK2	BG-7
J7DL2	J8DK2	BG-7
J7DN2	J8DM2	BG-6
J6DR2	J7DP2	BG-5
J7DR2	J8DP2	BG-5
J6DT2	J7DS2	BG-4
J7DT2	J8DS2	BG-4

ORIGIN	DESTINATION	FUNCTION
J2FE2	J3FE2	CM034-H
J18DT2	J18BE2	BG 4-H
J18DR2	J18BB1	BG 5-H
J18DN2	J18BA1	BG 6-H
J18DL2	J18AV1	BG 7-H
E4	J8DD2	LTC-L

ORIGIN	DESTINATION	FUNCTION
J15CD2	J14CD2	
J14CD2	J13CD2	
J15CE2	J14CE2	
J14CE2	J13CE2	
J15CF2	J14CF2	
J14CF2	J13CF2	
J15CH2	J14CH2	
J14CH2	J13CH2	
J15CJ2	J14CJ2	
J14CJ2	J13CJ2	
J15CK2	J14CK2	
J14CK2	J13CK2	
J15CL2	J14CL2	
J14CL2	J13CL2	
J15CM2	J14CM2	
J14CM2	J13CM2	
J15CN2	J14CN2	
J14CN2	J13CN2	
J15CP2	J14CP2	
J14CP2	J13CP2	
J15CR2	J14CR2	
J14CR2	J13CR2	
J15CS2	J14CS2	
J14CS2	J13CS2	
J15CT2	J14CT2	
J14CT2	J13CT2	
J15CU2	J14CU2	
J14CU2	J13CU2	
J15CV2	J14CV2	
J14CV2	J13CV2	
J15CH1	J14CH1	
J14CH1	J13CH1	

ORIGIN	DESTINATION	FUNCTION
J15EC1	J14EC1	
J14EC1	J13EC1	
J15ED1	J14ED1	
J14ED1	J13ED1	
J15EE1	J14EE1	
J14EE1	J13EE1	
J15EF1	J14EF1	
J14EF1	J13EF1	
J15EH1	J14EH1	
J14EH1	J13EH1	
J15EJ1	J14EJ1	
J14EJ1	J13EJ1	
J15EK1	J14EK1	
J14EK1	J13EK1	
J15EL1	J14EL1	
J14EL1	J13EL1	
J15EP1	J14EP1	
J14EP1	J13EP1	
J15ER1	J14ER1	
J14ER1	J13ER1	
J15EU1	J14EU1	
J14EU1	J13EU1	
J15EV1	J14EV1	
J14EV1	J13EV1	
J15ED2	J14ED2	
J14ED2	J13ED2	
J15EE2	J14EE2	
J14EE2	J13EE2	
J15EF2	J14EF2	
J14EF2	J13EF2	
J15EH2	J14EH2	
J14EH2	J13EH2	
J15EJ2	J14EJ2	
J14EJ2	J13EJ2	
J15EK2	J14EK2	
J14EK2	J13EK2	
J15EN2	J14EN2	
J14EN2	J13EN2	
J15EP2	J14EP2	
J14EP2	J13EP2	
J15EU2	J14EU2	
J14EU2	J13EU2	
J15EV2	J14EV2	
J14EV2	J13EV2	

california data processors DESIGNER: _____ APPROVAL: _____	TITLE BOARD ASSEMBLY, BACKPLANE - CPU & I/O		REV. 02
	DOCUMENT NUMBER B CEIC0341		
DO NOT SCALE PRINT MAKE HOLES		USE FOR OFFSHORE SPECIFICATIONS UNLESS OTHERWISE SPECIFIED	DATE

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ORIGIN	DESTINATION	FUNCTION
J15DD2	J14DD2	
J14DD2	J13DD2	
J15DE2	J14DE2	
J14DE2	J13DE2	
J15DF2	J14DF2	
J14DF2	J13DF2	
J15DH2	J14DH2	
J14DH2	J13DH2	
J15DL1	J14DL1	
J14DL1	J13DL1	
J15FD1	J14FD1	
J14FD1	J13FD1	
J15FF1	J14FF1	
J14FF1	J13FF1	
J15FH1	J14FH1	
J14FH1	J13FH1	
J15FK1	J14FK1	
J14FK1	J13FK1	
J15FL1	J14FL1	
J14FL1	J13FL1	
J15FM1	J14FM1	
J14FM1	J13FM1	
J15FE2	J14FE2	
J14FE2	J13FE2	
J15FF2	J14FF2	
J14FF2	J13FF2	
J15FN2	J14FN2	
J14FN2	J13FN2	
J15FT2	J14FT2	
J14FT2	J13FT2	
J15FC1	J14FC1	
J14FC1	J13FC1	

ORIGIN	DESTINATION	FUNCTION
J14EB1	J14DV1	SSYN INH-L
J13EB1	J13DV1	SSYN INH-L
J14ES2	J14DF1	SELECT 0-H
J13ES2	J13DF1	SELECT 0-H
J14ET2	J14DJ1	SELECT 2-H
J13ET2	J13DJ1	SELECT 2-H
J14ER2	J14DE1	SELECT 4-H
J13ER2	J13DE1	SELECT 4-H
J14ES1	J14DC1	SELECT 6-H
J13ES1	J13DC1	SELECT 6-H
J14EM1	J14DH1	IN-H
J13EM1	J13DH1	IN-H
J14EN1	J14DD1	OUT LOW-H
J13EN1	J13DD1	OUT LOW-H
J14EM2	J14DK1	OUT HIGH-H
J13EM2	J13DK1	OUT HIGH-H
J14FA1	J14DV2	BG OUT B
J13FA1	J13DV2	BG OUT B
J14FB1	J14DU2	BG IN A
J13FB1	J13DU2	BG IN A
J14FH2	J14CL1	INTR ENB B
J13FH2	J13CL1	INTR ENB B
J14FK2	J14CJ1	INTR B
J13FK2	J13CJ1	INTR B
J14FU1	J14DN1	INTR A
J13FU1	J13DN1	INTR A
J14FV1	J14DM1	INTR ENB A
J13FV1	J13DM1	INTR ENB A
J14FU2	J14DJ2	BUS BRA
J13FU2	J13DJ2	BUS BRA
J14FP1	J14DJ2	BUS BRB
J13FP1	J13DJ2	BUS BRB

ORIGIN	DESTINATION	FUNCTION
J14FD2	J14FN1	
J14FN1	J14FR2	
J14FE1	J14FV2	
J14FP2	J14FS2	
J14FS1	J14FM2	
J14FL2	J14FR1	
J14FC2	J14FJ2	
J13FD2	J13FN1	
J13FN1	J13FR2	
J13FE1	J13FV2	
J13FP2	J13FS2	
J13FS1	J13FM2	
J13FL2	J13FR1	
J13FC2	J13FJ2	
J18AS2	J18FJ1	BUS NPR-L
J17AS2	J17FJ1	BUS NPR-L
J16AS2	J16FJ1	BUS NPR-L
J15AS2	J15FJ1	BUS NPR-L
J14AS2	J14FJ1	BUS NPR-L
J13AS2	J13FJ1	BUS NPR-L

california data processors

OPERATOR: _____

APPROVAL: _____

DOCUMENT NUMBER: B C81080341

REV. 02

DO NOT SCALE PRINT

SCALE: NONE


UNLESS OTHERWISE SPECIFIED

PRACTICE: AS SHOWN

LIST OF MATERIALS

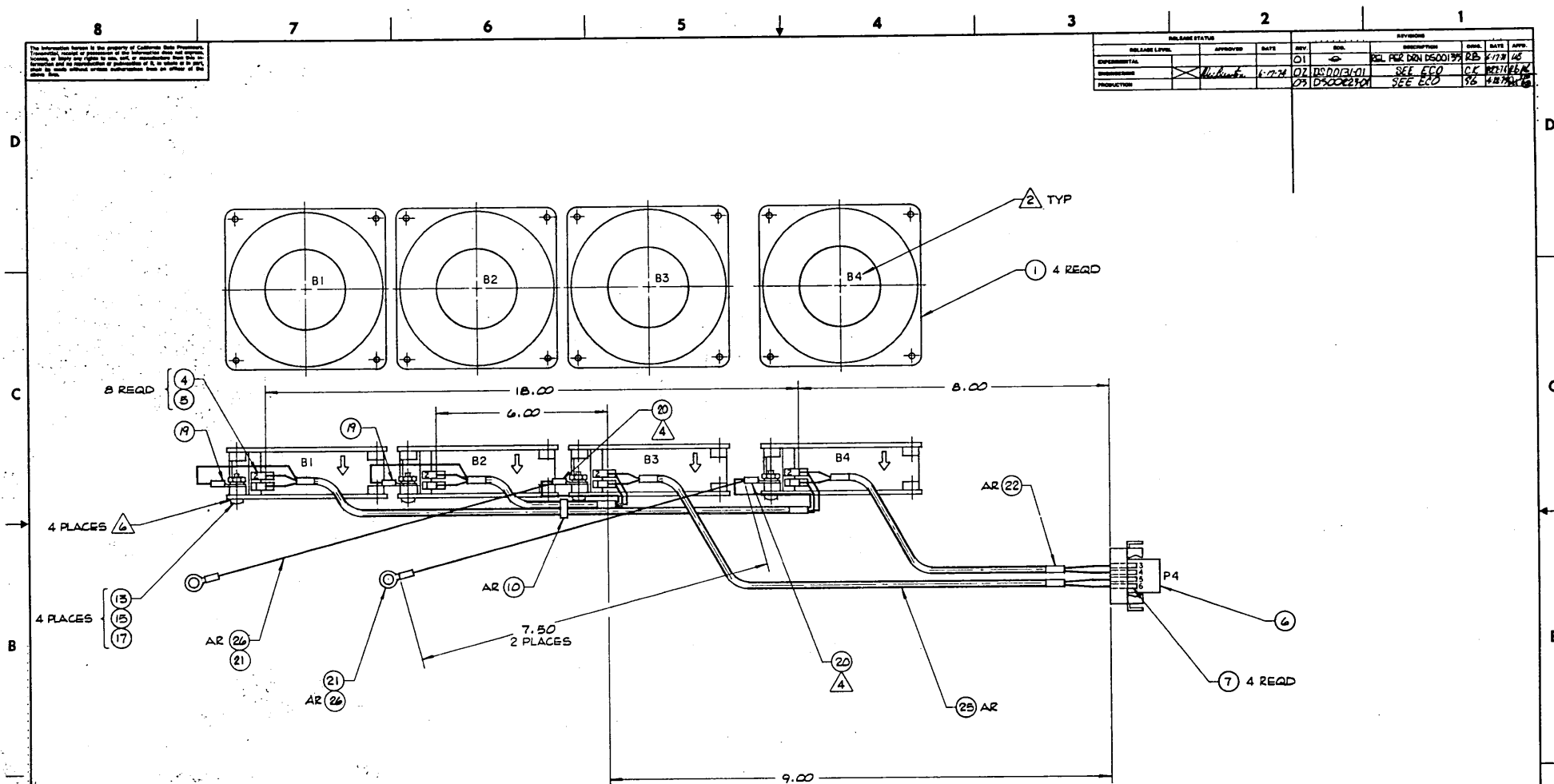
ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		C66080340	P.W. BOARD, BACKPLANE - C.P.U. AND I/O			
2	1		C67680007	SUPPORT BAR, BACKPLANE			
3	2		C67680019	SUPPORT, BACKPLANE			
4							
5	5	J19 - J23	C56150650	HEADER, PIN, 4 CONTACT		AMP	350211-1
6	A/R	E1,2,3	C61541310	STANDOFF, .25 HEX X .50 LG		AMATOM	9739-B-0832
7	6	E4,5,J23-1 THRU J23-4	C56233152	POST, WIRE WRAP		SAE	CB250-1S
8	100		C56131400	CONNECTOR, WIRE WRAP		CAL DATA	56131400
9							
10	A/R		C61431080	SCREW, PAN HD., 8-32 X .375 LG			
11							
12	A/R		C61241112	WASHER, INT. TOOTH, #8 STD			
13	A/R		C56214569	TERMINAL RING, 14-16 AWG #8		ETC	8-223-08
14	A/R		C37211390	WIRE, 14 AWG, STRANDED, WHT			
15	A/R		C61532010	NUT, HEX, 8-32			
16	A/R		C61281030	SPEED NUT, PUSH-ON		TINNERMAN	C12042-017-4
17	A/R		C61221010	WASHER, FLAT #6 STD., NYLON			
18							
19	A/R		C61541320	STANDOFF, .25 HEX X .75 LONG		AMATOM	9741-SS-0632
20	A/R		C61212010	WASHER, FLAT #6 STD.			
21	A/R		C61241110	WASHER, INT. TOOTH, #6 STD			
22	A/R		C37002440	WIRE, 30 AWG, YEL		STORM	30-130-1422-YEL
23	A/R		C37663014	WIRE, BRAIDED FLAT, 3/16 WOVEN		ALPHA WIRE	1230

FORM NO. 3-172

ORIGINATOR <i>P.M.C. 1000</i>	<i>8 JAN 75</i>	 california data processors	TITLE
APPROVAL <i>(Signature)</i>	<i>1-13-75</i>		BOARD ASSEMBLY, BACKPLANE - C.P.U. AND I/O
<i>(Signature)</i>	<i>1-13-75</i>		SIZE
<i>(Signature)</i>	<i>1-13-75</i>		DOCUMENT NUMBER
<i>(Signature)</i>	<i>1/13/75</i>		C81080341
		REV.	02
		DS	SHEET 6 OF 6 PAGE

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RELEASE STATUS		REV	DATE	BY	CHK	DESCRIPTION	DATE	APPV
EXPERIMENTAL	APPROVED	01				REL PER DSN D500139	12/18/48	
DESIGN		02	1-7-51			SEE ECD		
PRODUCTION		03				SEE ECD		



- △ REMOVE PAINT FROM UNDER HEADS OF SCREWS FASTENING RING LUGS TO ASSURE PROPER ELECTRICAL GROUNDING.
 - 5. ALL WIRE SHOWN TERMINATED WITH A RING LUG TO BE 18 AWG WIRE, ITEM 26.
 - 4. TWO 18 AWG WIRES ARE INSERTED INTO A COMMON RING LUG, ITEM 20.
 - 3. TWO WIRES ARE INSERTED INTO A COMMON TERMINAL, ITEM 5.
 - 2. REFERENCE DESIGNATIONS ARE SHOWN FOR REFERENCE ONLY, AND DO NOT APPEAR ON ACTUAL PART.
 - 1. FABRICATE PER CAL DATA SPECIFICATION C22270100.
- NOTES: UNLESS OTHERWISE SPECIFIED

WIRE GAGE	WIRE COLOR	ORIGIN	DESTINATION	REF LENGTH
22	WHT	B3-2	P4-6	9.0
22	WHT	B2-2	B3-2 △	6.0
22	BLK	B3-1	P4-5	9.0
22	BLK	B2-1	B3-1 △	6.0
22	WHT	B4-2	P4-4	8.0
22	WHT	B1-2	B4-2 △	18.0
22	BLK	B4-1	P4-3	8.0
22	BLK	B1-1	B4-1 △	18.0

WIRE TAB LISTING


ITEM	NAVY NO.	QTY.	DESCRIPTION
			TITLE
california data processing			FAN CABLE ASSEMBLY
OPERATOR	DATE	FILE	DOCUMENT NUMBER
W. J. ...	12-17-51	D	C85300046
DO NOT SCALE PRINT	SCALE NONE	UNLESS OTHERWISE SPECIFIED	REV. 03

3 PLACES ±.05
 2 PLACES ±.15
 1 PLACE ±.30
 ANGLE 1/2°
 1/8" MIN

LIST OF MATERIALS

ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	4	B1 THRU B4	C76311025	FAN, AXIAL, 4", 115 CFM, 115 VAC		IMC	HS2107FL
2							
3							
4	8		C56150727	CONNECTOR, SWITCH, HOUSING		MOLEX	06-02-3011
5	8		C56150728	TERMINAL, 14-22 GA		MOLEX	05-06-0403
6	1		C56150682	CONNECTOR, PIN 8 CONTACT		AMP	1-480460-0
7	4		C56150684	CONTACT PIN		AMP	60618-1
8							
9							
10	AR		C56262104	TIE-WRAP ADJ PLASTIC		ELECTROVERT	EL-A
11							
12							
13	AR		C61431064	SCREW, PAN HD., 6-32 X 5/8 LG.			
14							
15	AR		C61241110	WASHER, INT. TOOTH, #6			
16							
17	AR		C61532008	NUT, HEX, 6-32			
18							
19	AR		C56214543	RING LUG, #6, 18-22 GA			
20	AR		C56214566	RING LUG, #6, 14-16 GA		E.T.C.	B-237-10
21	AR		C56214548	RING LUG, #10, 18-22 GA		E.T.C.	A-221-10
22	AR		C33121014	SLEEVING, SHRINK 1/4 I.D., BLACK		ALPHA	FIT-105-1/4
23							
24							
25	AR		C37336501	CABLE, SHIELDED, 2COND., 22 AWG		ALPHA	1736-WHT/BLK
26	AR		C37435045	WIRE, STRD, 18 AWG, GREEN			

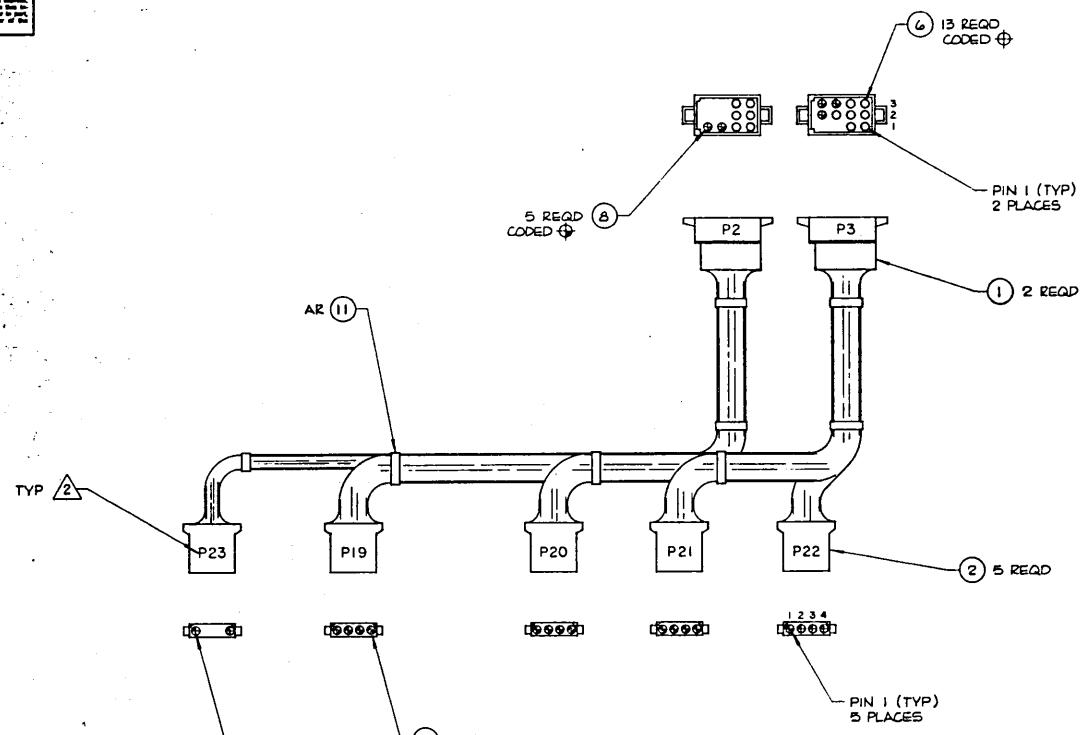
FORM NO. 3-172

ORIGINATOR <i>RW Bowman</i>	6-14-74	 california data processors	TITLE FAN CABLE ASSEMBLY		
APPROVAL <i>W. Brewster</i>	6-17-74		SIZE B	DOCUMENT NUMBER C85300046	REV. 03
<i>R. D. Quast</i>	6-17-74				
<i>R.W. Marshall</i>	6-17-74				
<i>R.W. Johnson</i>	6-17-74	SHEET 2 OF 2			

6/17/74
1/17/71

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RELEASE STATUS				REVISION				
RELEASE LEVEL	APPROVED	DATE	REV.	REV.	DESCRIPTION	ORIG.	DATE	APP.
EXPERIMENTAL			01		REL PER DEN DS00135	RB	1/17/48	
PRODUCTION			02		SEE ELD	CE	5-21-48	



WIRE GAGE	WIRE COLOR	ORIGIN	DESTINATION	FUNCTION	WIRE LENGTH
22	938	P2-10	P23-4	-22 VDC	15.0
22	924	P2-7	P23-1	+BV RMS	15.0
22	90	P3-8	P22-1	SIG GND	7.0
22	912	P3-11	P22-4	LTCL	7.0
22	90	P3-8	P22-1	SIG GND	7.0
22	903	P3-9	P22-3	OCLO	7.0
22	908	P3-12	P22-2	ACLO	7.0
22	90	P3-8	P22-1	SIG GND	7.0
14	90	P3-5	P21-4	PWR GND	8.5
14	91	P3-2	P21-3	+5 VDC	8.5
14	91	P3-1	P21-2	+5 VDC	8.5
14	90	P3-4	P21-1	PWR GND	8.5
14	90	P3-6	P20-4	PWR GND	10.0
18	97	P3-3	P20-3	-15 VDC	10.0
18	97	P2-3	P20-2	-15 VDC	8.5
14	90	P2-6	P20-1	PWR GND	8.5
14	90	P2-5	P19-4	PWR GND	13.0
14	91	P2-2	P19-3	+5 VDC	13.0
14	91	P2-1	P19-2	+5 VDC	13.0
14	90	P2-4	P19-1	PWR GND	13.0

WIRE TAB LISTING

- 5. THREE WIRES ARE INSERTED INTO A COMMON CONTACT AT ORIGIN AND DESTINATION.
- 4. WIRE LENGTHS SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. FOR ACTUAL LENGTHS REFER TO WIRE TAB LISTING.
- 3. SPOT TIE HARNESS USING TIE WRAP, ITEM 11, AS REQUIRED.
- 2. REFERENCE DESIGNATIONS ARE SHOWN FOR REFERENCE ONLY, AND DO NOT APPEAR ON ACTUAL PART.
- 1. MAKE PER DATA 100 SPECIFICATION 22270100.


NOTES: UNLESS OTHERWISE SPECIFIED

ITEM	PART NO.	QTY.	DESCRIPTION
			TITLE
OPERATOR: <i>DOMAN</i> 1/14/48 CHECKED: <i>...</i> 6-17-48 DESIGNED: <i>...</i> 6-17-48			POWER HARNESS ASSEMBLY DOCUMENT NUMBER C85300057
SIZE	REV.	DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED FRACTIONS DECIMALS ANGLES	
D	02	SCALE	NONE

FORM NO. 3-18

LIST OF MATERIALS

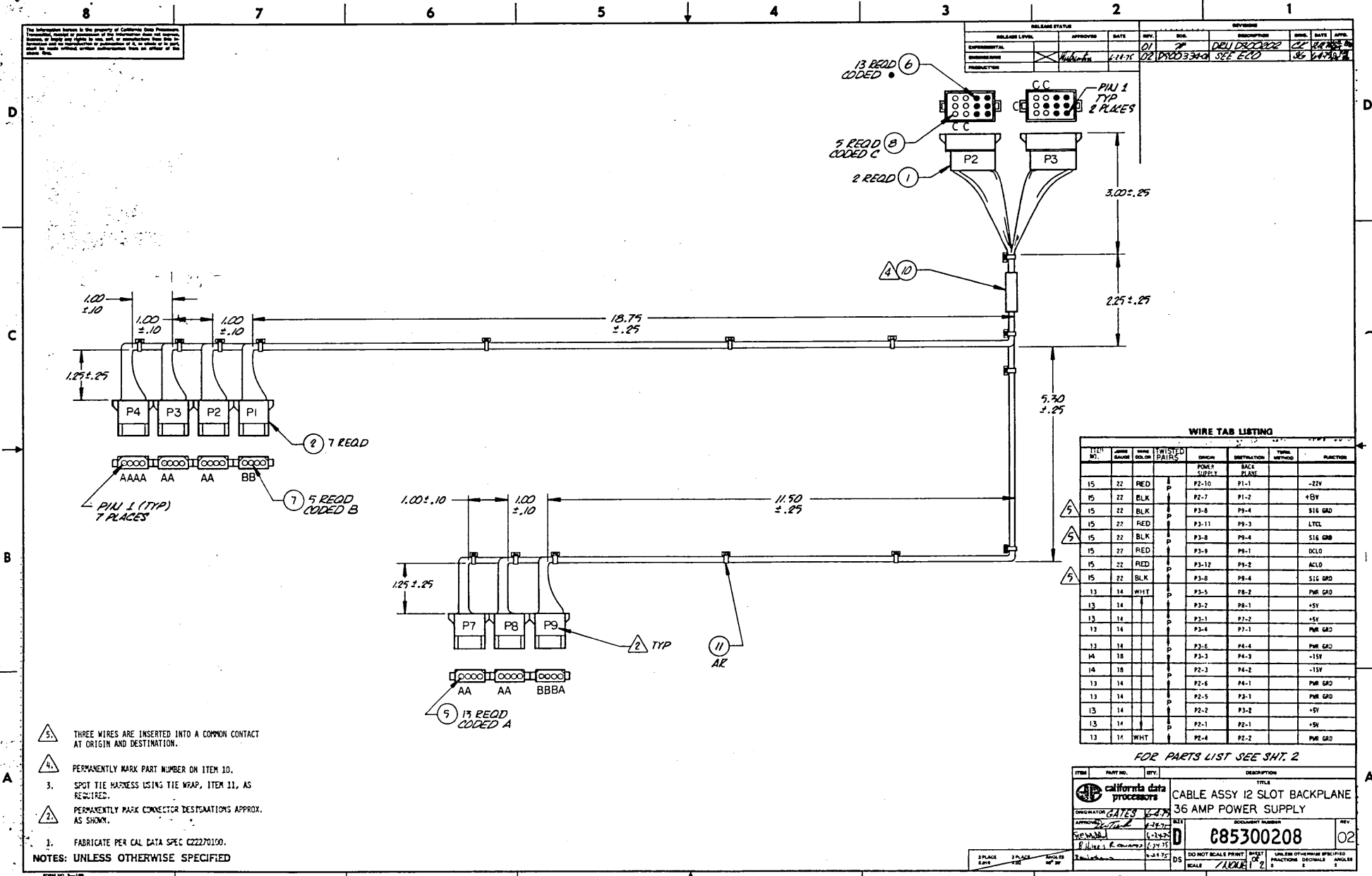
ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	2	P2, P3	C56150668	CONNECTOR, PIN, 12 CONTACT		AMP	1-480278-0
2	5	P19 - P23	C56150654	CONNECTOR, SKT, 4 CONTACT		AMP	1-480424-0
3							
4							
5	13		C56150674	SOCKET, 14-20 GA		AMP	60619-1
6	13		C56150633	PIN, 14-20 GA		AMP	60620-1
7	5		C56150683	SOCKET, 18-22 GA		AMP	60617-1
8	5		C56150684	PIN, 18-22 GA		AMP	60618-1
9							
10							
11	AR		C56262104	TIE WRAP ADJ PLASTIC		ELECTROVERT	EL-A
12							
13	AR		C37435002	WIRE, 14 AWG STRD, WHT/BLK			
14	AR		C37435005	WIRE, 14 AWG STRD, WHT/BRN			
15							
16	AR		C37435011	WIRE, 18 AWG STRD, WHT/VIO			
17							
18	AR		C37435000	WIRE, 22 AWG STRD, WHT/BLK			
19	AR		C37435016	WIRE, 22 AWG STRD, WHT/BLK/ORG			
20	AR		C37435021	WIRE, 22 AWG STRD, WHT/BLK/GRY			
21	AR		C37435022	WIRE, 22 AWG STRD, WHT/BRN/RED			
22	AR		C37435031	WIRE, 22 AWG STRD, WHT/RED/YEL			
23	AR		C37435041	WIRE, 22 AWG STRD, WHT/ORG/GRY			

ORIGINATOR <i>Rw Bowman</i> APPROVAL <i>Wp. Austin</i> <i>Submitt</i> <i>R. Sandell</i> <i>John Mackin</i> <i>Rw Bowman</i> <i>Paul Cox</i> <i>X/D</i>	6-14-74 6-17-74 6-17-74 6-17-74 6-17-74 6-17-74 6/17/74 6/17/74	 california data processors	TITLE POWER HARNESS DOCUMENT NUMBER C85300057	REV. 02
SIZE B		SHEET 2 OF 2 PAGE		

FORM NO. 3-17Z

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RELEASE STATUS				REVISIONS			
RELEASE LEVEL	APPROVED	DATE	REV.	BY	DESCRPTION	ENR.	DATE
EXPERIMENTAL			01	GP	DELV DROD 334	02	10/18/71
PREPRODUCTION			02	GP	SEE ECD	03	10/18/71
PRODUCTION							



WIRE TAB LISTING									
ITEM NO.	WIRE GAUGE	WIRE COLOR	WIRE PAIRS	ORIGIN	DESTINATION	TERM. METHOD	FUNCTION		
				PIN 1	SAC 1 PLANT				
15	22	RED	P	P2-10	P1-1		-22V		
15	22	BLK	P	P2-7	P1-2		+5V		
15	22	BLK	P	P3-8	P5-4		SIG GND		
15	22	RED	P	P3-11	P5-3		LTCL		
15	22	BLK	P	P3-8	P5-4		SIG GND		
15	22	RED	P	P3-9	P5-1		ACLO		
15	22	RED	P	P3-12	P5-2		ACLO		
15	22	BLK	P	P3-8	P5-4		SIG GND		
13	14	WHT	P	P3-5	P8-2		PWR GND		
13	14		P	P3-2	P8-1		+5V		
13	14		P	P3-1	P7-2		+5V		
13	14		P	P3-4	P7-1		PWR GND		
13	14		P	P3-6	P4-4		PWR GND		
14	18		P	P3-3	P4-3		-15V		
14	18		P	P2-3	P4-2		-15V		
13	14		P	P2-6	P4-1		PWR GND		
13	14		P	P2-5	P3-1		PWR GND		
13	14		P	P2-2	P3-2		+5V		
13	14		P	P2-1	P2-1		+5V		
13	14	WHT	P	P2-4	P2-2		PWR GND		

FDR PARTS LIST SEE SHT. 2


ITEM	PART NO.	QTY.	DESCRIPTION
	CABLE ASSY 12 SLOT BACKPLANE		
	36 AMP POWER SUPPLY		
	885300208	02	

- 1. FABRICATE PER CAL DATA SPEC C22270150.
 - 2. PERMANENTLY MARK CONNECTOR DESTINATIONS APPROX. AS SHOWN.
 - 3. SPOT TIE WIRESS USING TIE WRAP, ITEM 11, AS REQUIRED.
 - 4. PERMANENTLY MARK PART NUMBER ON ITEM 10.
 - 5. THREE WIRES ARE INSERTED INTO A COMMON CONTACT AT ORIGIN AND DESTINATION.
- NOTES: UNLESS OTHERWISE SPECIFIED

LIST OF MATERIALS

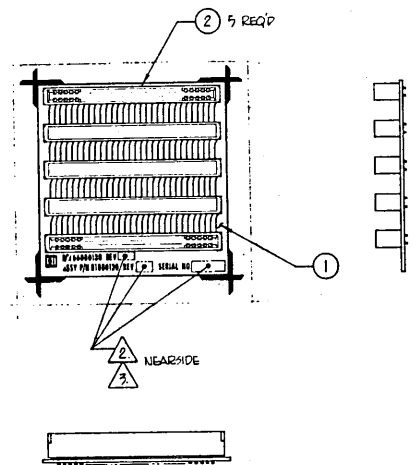
						FOR REFERENCE ONLY	
ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	2	P2, P3	C56150668	CONNECTOR, PIN, 12 CONTACT		AMP	1-480278-0
2	7	P1-4, P7-9	C56150654	CONNECTOR, SKT, 4 CONTACT		AMP	1-480424-0
3							
4							
5	13		C56150674	SOCKET, 14-20 GA		AMP	60619-1
6	13		C56150673	PIN, 14-20 GA		AMP	60620-1
7	5		C56150683	SOCKET, 18-22 GA		AMP	60617-1
8	5		C56150684	PIN, 18-22 GA		AMP	60618-1
9							
10	1		C56263100	TIE WRAP, ID, 5/16 X 1 IN		T&B	TY-51M
11	AR		C56262104	TIE WRAP ADJ PLASTIC		ELECTROVERT	EL-A
12							
13	AR		C37211390	WIRE, 14 AWG STRD, WHITE	APPROX. 25 FT.	AMERICAN ENKA	88143141(WHT)
14	AR		C37203609	WIRE, 18 AWG STRD, WHITE	APPROX. 5 FT.	BRAND-REX	RR181016
15	AR		C37203402	WIRE, 22 AWG STRD, TW/PR BLK/RED	APPROX. 9 FT.	ALPHA	3251-TW/PR BLK/RED

FORM NO. 3-17Z

ORIGINATOR	C. Edwards	12-13-74	 california data processors	TITLE	CABLE ASSY, 12-SLOT BACKPLANE AND 36-A POWER SUPPLY	
APPROVAL	<i>[Signature]</i>	12-13-74		SIZE	DOCUMENT NUMBER	REV.
R. EDWARDS	<i>[Signature]</i>	1-2-75		B	C85300208	02
<i>[Signature]</i>	<i>[Signature]</i>	1-6-75		DS	SHEET 2 OF 2	PAGE
<i>[Signature]</i>	<i>[Signature]</i>	1-6-75				

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RELEASE STATUS				REVISION			
RELEASE LEVEL	APPROVER	DATE	REV.	ED.	DESCRIPTION	ORIG.	DATE
EXPERIMENTAL			01	-	REV. 040000-99	PC	1-8-74
DESIGN	<i>V. M. Mack</i>	2-8-74					
PRODUCTION							




5. FOR SCHEMATIC SEE 21080130.
 4. REFERENCE DOCUMENTS: PRODUCT SPECIFICATION: 22410014,
 TEST SPECIFICATION: 22413013.
 SERIAL NUMBER TO BE PREFIXED WITH A DIVISION CODE WHICH AGREE
 WITH A PLACE OF MANUFACTURE: DS EQUAL - SANTA ANA.
 DE EQUAL - EDINJA.
 MARK ASSEMBLY LATEST REV LETTER TO WHICH IT WAS BUILT.
 ASSY SERIAL NUMBER AND CIA FOUR DIGIT DATE CODE. LETTER-
 ING TO BE .12 HIGH BLACK EPOXY PAINT, VERTICAL GOTHIC AND
 LOCATED APPROX. AS SHOWN.
 1. MAKE PER DATA ICD SPEC 21100010 AND 22270100.
 NOTES: UNLESS OTHERWISE SPECIFIED

ITEM	PART NO.	QTY.	DESCRIPTION
	california data processors		TITLE BOARD ASSEMBLY, CPU INTERCONNECT
	81080130	01	DOCUMENT NUMBER
			REV.
			SCALE
			UNLESS OTHERWISE SPECIFIED

LIST OF MATERIALS

ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		66080130	P.W. BOARD, C.P.U. INTERCONNECT			
2	5		56131070	CONNECTOR, EDGE		VIKING	3VH30/JV-12

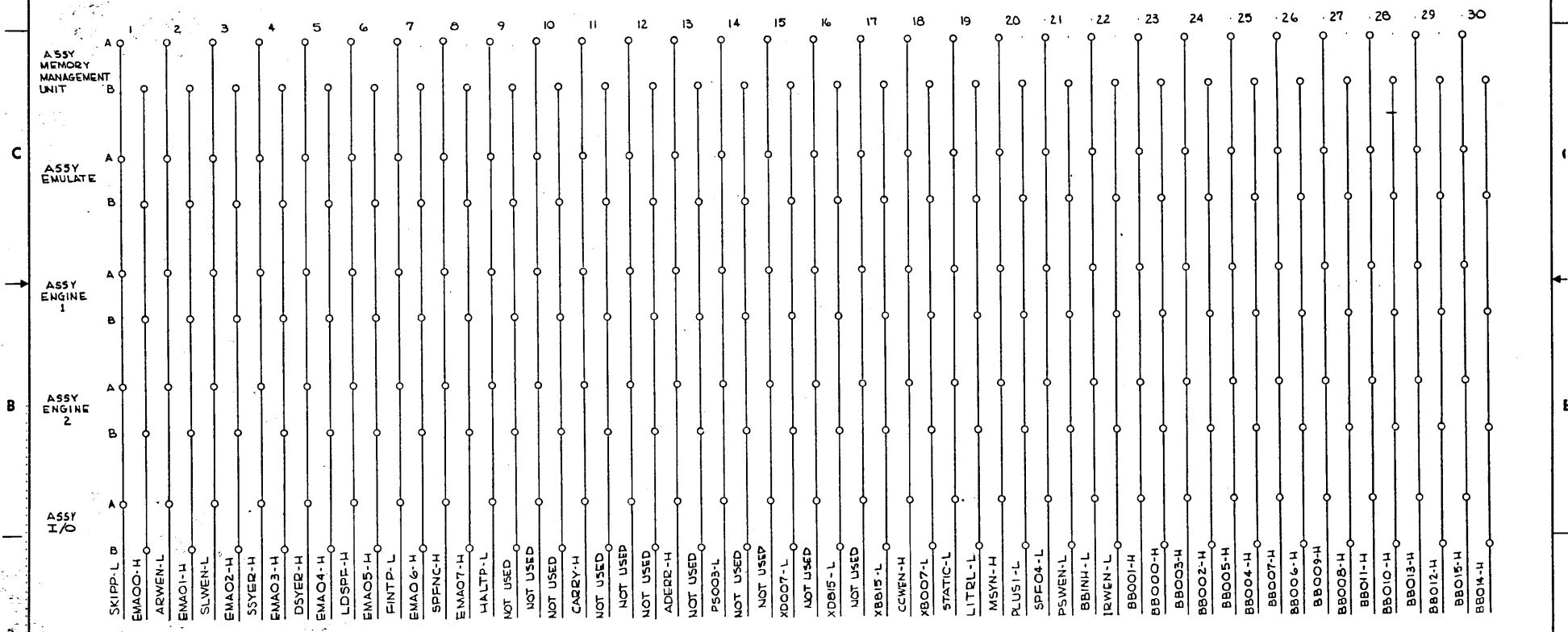
FORM NO. 3-172


ORIGINATOR	CLEVELAND	3-8-74	 california data processors	TITLE	BOARD ASSEMBLY, CPU INTERCONNECT
APPROVAL	<i>[Signature]</i>	7-8-74		DOCUMENT NUMBER 81080130	REV. 01
	<i>[Signature]</i>	3-8-74			
	<i>[Signature]</i>	3-8-74			
	<i>[Signature]</i>	3-8-74			
	<i>[Signature]</i>	3-8-74	SIZE		
			B		
			DS	SHEET 2 OF 2	
				PAGE	

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RELEASE STATUS			REVISIONS				
RELEASE LEVEL	APPROVED	DATE	REV.	DESCRIPTION	ENG.	DATE	APP.
PRODUCTION	<input checked="" type="checkbox"/>	11/2/74	01	REV D500110		11/2/74	

CONNECTOR J1




 WHEN THIS BOARD IS INSTALLED ONTO THE CPU ASSEMBLIES AT CONNECTOR J1 THE SIGNALS AS SHOWN ON SHEET 1 OF THIS DRAWING APPLY. WHEN INSTALLED ONTO J2 THE SIGNALS AS SHOWN ON SHEET 2 OF THIS DRAWING APPLY.

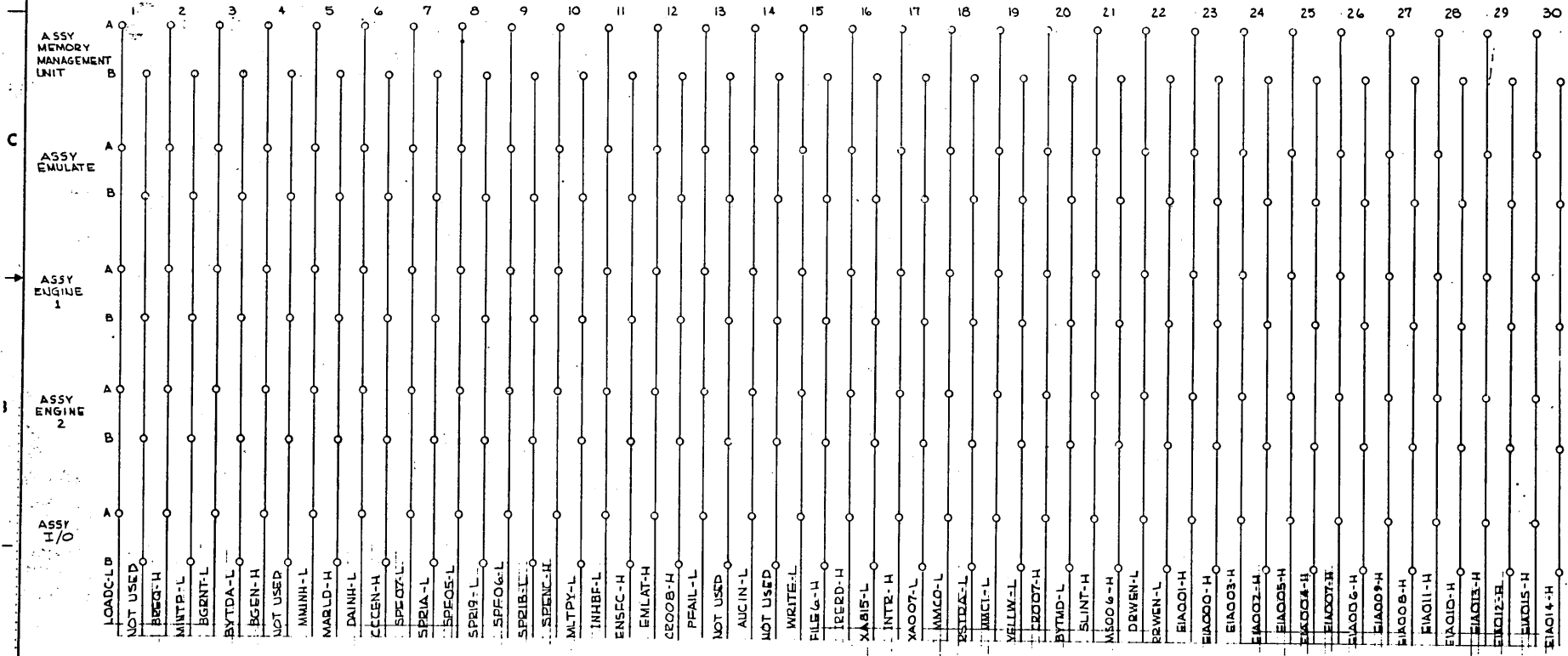
1. FOR BOARD ASSEMBLY SEE B1080130.
NOTES: UNLESS OTHERWISE SPECIFIED


ITEM	PART NO.	QTY.	DESCRIPTION
			TITLE
BOARD SCHEMATIC, CPU INTERCONNECT			REV.
SECURITY NUMBER 21080130			01
DO NOT SCALE PRINT SCALE 1/1			SHEET 1 OF 2

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REVISION				
REV.	NO.	DESCRIPTION	DATE	APP.

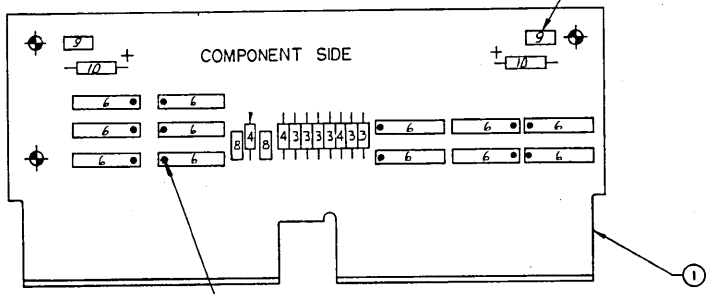
CONNECTOR J2 



ITEM	PART NO.	QTY.	DESCRIPTION
 BOARD SCHEMATIC, CPU INTERCONNECT			
OPERATOR	REV. D		DOCUMENT NUMBER 21080130
APPROVAL	DATE		REV. 01
DO NOT SCALE PRINT		SCALE 1/1	

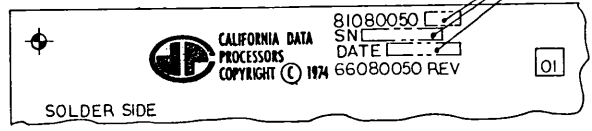
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RELEASE STATUS			REVISIONS			
RELEASE LEVEL	APPROVED	DATE	REV.	CHK.	DESCRIPTION	DATE
EXPERIMENTAL			01	-	REL PER DATA DS00052	6-4-74
PRODUCTION						



PARTS LIST
FIND NUMBER
TYP

DENOTE PIN 1



- 1 SERIAL NUMBER TO BE PREFIXED WITH A DIVISION CODE WHICH AGREES WITH PLACE OF MANUFACTURE: DS EQUAL-SANTA ANA, DE EQUAL-EDINA.
- 2 FOR BOARD SCHEMATIC SEE 21080050
- 3 MARK ASSEMBLY LATEST REV LETTER TO WHICH IT WAS BUILT, ASSY SERIAL NUMBER, EIA FOUR DIGIT DATE CODE, AND LOCATED APPROX AS SHOWN
- 4 MAKE PER DATA 100 SPEC 2100010.

NOTES: UNLESS OTHERWISE SPECIFIED


FOR PARTS LIST SEE SH2

		TITLE BOARD ASSEMBLY TERMINATOR	
OPERATOR	DATE	REV.	REV.
C. W. B.	4-4-74	01	01
DOCUMENT NUMBER 81080050		DO NOT SCALE PRINT SCALE 1/2	
SPECIAL REQUIREMENTS SPECIFIED BY CUSTOMER NONE		PRACTICE 2	

3-11-6-2 4/12/74

LIST OF MATERIALS

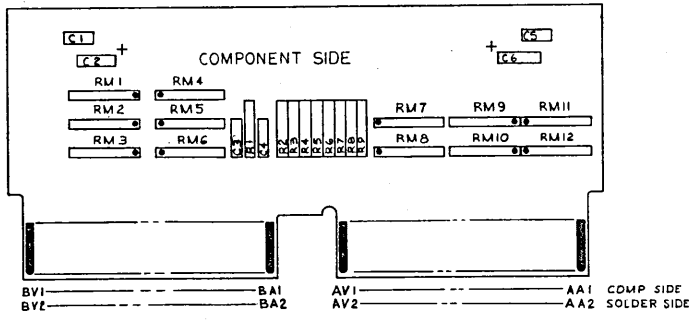
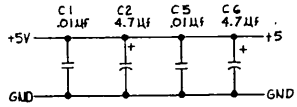
ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		66080050	PWB TERMINATOR			
2							
3	6	R3, 4, R5, 6, 8, R9	54400267	RESISTOR, 180 Ω , 1/4 W, 5%			RC07GF181J
4	3	R1, 2, 7	54400275	RESISTOR, 390 Ω , 1/4 W, 5%			RC07GF391J
5							
6	12	RM1-RM12	54811020	RESISTOR MOD. 180 Ω /390 Ω			
7							
8	2	C3, 4	522133450	CAPACITOR, .001 uf, 100 V			
9	2	C1, 5	52252500	CAPACITOR, .01 uf, 100 V			
10	2	C2, 6	52326001	CAPACITOR, 4.7 uf, 20%, 20 V			

ORIGINATOR <i>C. Kennedy</i>	4-4-74	 california data processors	TITLE
APPROVAL <i>[Signature]</i>	4-10-74		BOARD ASSEMBLY TERMINATOR
<i>R. Edwards</i>	4-12-74		DOCUMENT NUMBER
<i>[Signature]</i>	4-12-74		81080050
<i>[Signature]</i>	4-12-74		REV. 01
<i>[Signature]</i>	4-12-74		SHEET 2 OF 2 PAGE

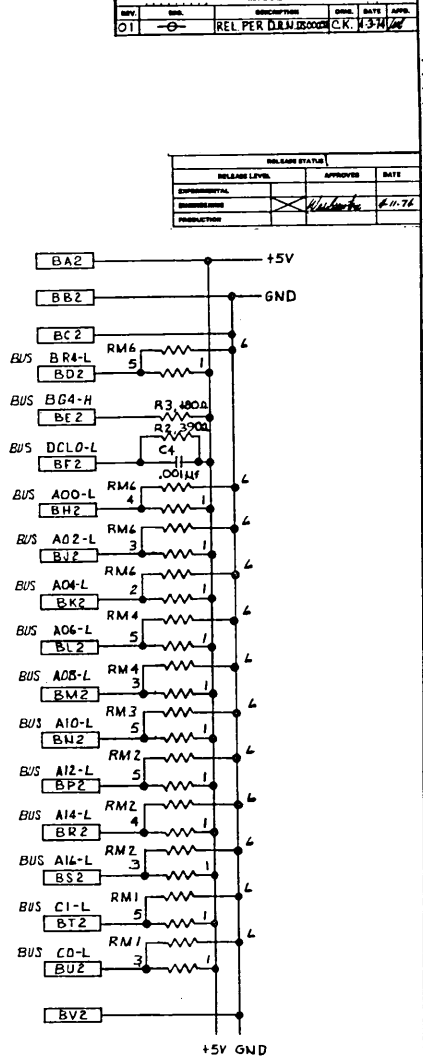
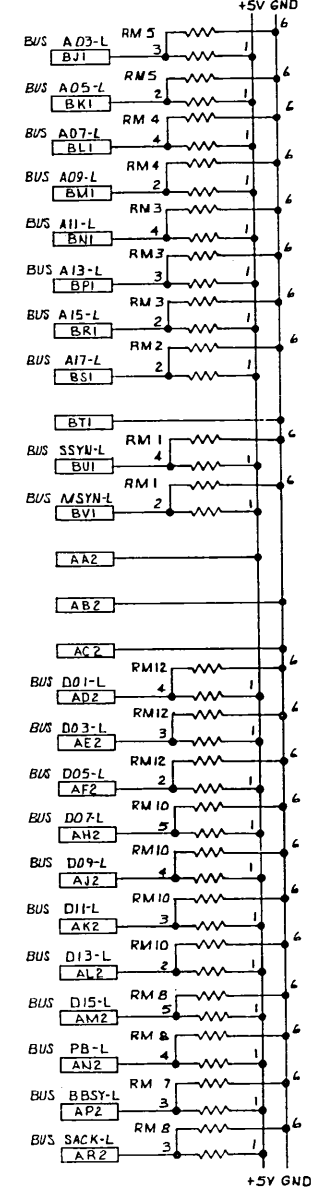
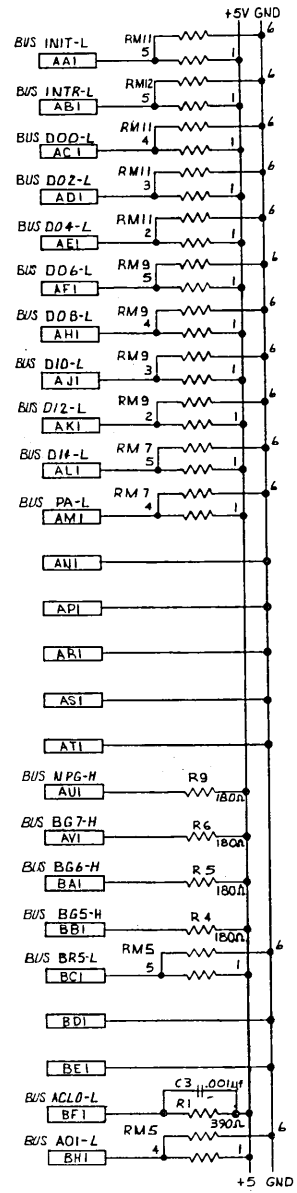
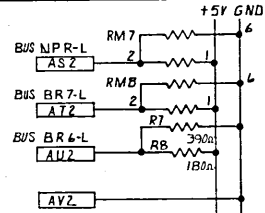
FORM NO. 3-17Z

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REFERENCE		DESIGNATIONS
COMPONENT	HIGHEST NUMBER	NUMBER NOT USED
CAPACITOR	C6	6
RESISTOR	R9	6
RES. MOD.	RM12	6



- ALL RESISTORS ARE 1/4W, 5%.
- FOR BOARD ASSEMBLY SEE BI080050. UNLESS OTHERWISE SPECIFIED:



REV.	DATE	DESCRIPTION	APP. BY	DATE	APP. BY
01		REL PER DLM DRAWING	CK	4-3-74	

RELEASE STATUS		
EXPERIMENTAL	APPROVED	DATE
	<input checked="" type="checkbox"/>	4-11-74

california data PRODUCTS

OPERATOR: C. K. [Signature] DATE: 4-3-74

210800-0

DO NOT SCALE PRINT

FRAC. 1/16

ANGLES 90

