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CAL DATA 36 AMPERE
POWER SUPPLY
(P/N C85500018)

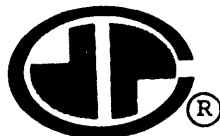
DRAWING PACKAGE
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Revision X3
October 1975

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california data processors

REVISIONS

<u>Revision</u>	<u>Date</u>	<u>Approval</u>	<u>Description</u>
X0	8/74	<i>ALF</i>	Preliminary edition
X1	10/74	<i>ALF</i>	Release edition. Added introduction material and Theory of Operation.
X2	1/75	<i>ALF</i>	Title change from CDP-PS Model 36 Power Supply to Cal Data 36 Ampere Power Supply. Removed Theory of Operation from package. Added proprietary notice.
X3	10/75	<i>ALF</i>	Format change



INTRODUCTION

This volume contains engineering drawings for the Cal Data 36 Ampere Power Supply, part number C85500018.

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, 2N5768). 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
C85500018	Power Supply Assembly, 115 Vac
C85500001	+5 V Heatsink Subassembly, 36 A Power Supply
C85500002	-15 V Heatsink Subassembly, 36 A Power Supply
C85500003	Subassembly 36 A Power Supply
C85500004	Rectifier Subassembly, 36 A Power Supply
C85500006	Subassembly, AC Power Panel, 115 Vac
C85300031	Harness Assembly
C85300032	Wire List, 36 A Power Supply
C21118001	Schematic, 36 A Power Supply
C81080110	Board Assembly, Regulator
C21080110	Board Schematic, Regulator
C81080170	Board Assembly, Auxiliary Control
C21080170	Board Schematic, Auxiliary Control



WIRE TAB LISTING


CALIFORNIA DATA PROCESSORS

CAL DATA MODEL 36
POWER SUPPLY (36 AMP)

WIRE TAB LISTING

REVISIONS TO THIS DOCUMENT WILL BE MAINTAINED ON A PER-SHEET BASIS. SEE SHEETS 2 AND 33 FOR REVISION LOG.


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(2C1) C85500006

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230V C85500008 AC Power Panel (2C1)


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10.0 Wire List, Subassembly, 230E AC Power Panel Page 27
(2C1) European Version C85500009

SECTION 11

11.0 Wire List, Final Assembly C85500018 - C85500021... Page 29

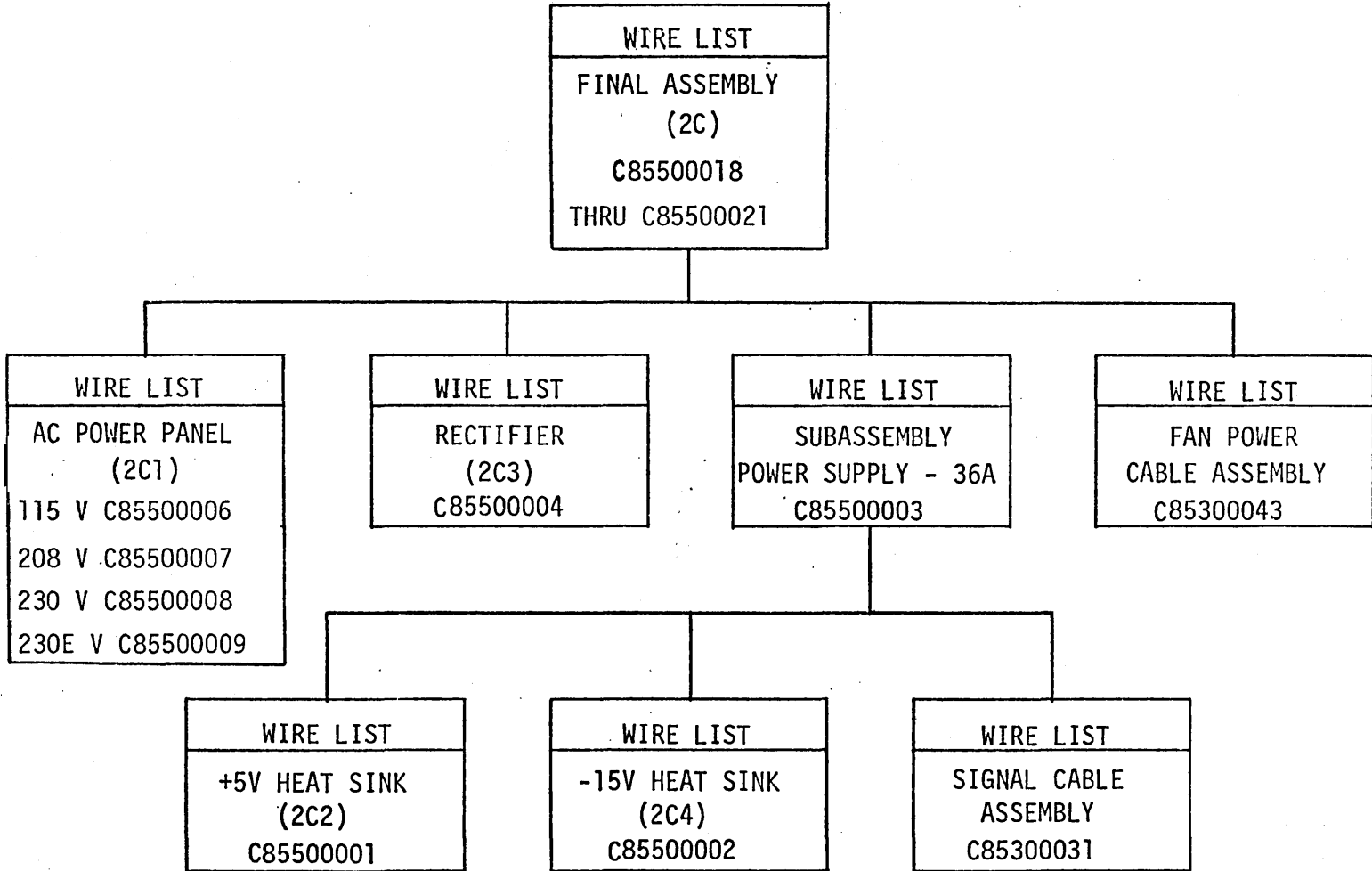
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WIRE TAB LISTING

1.0 WIRE LIST STRUCTURE DIAGRAM

CDP-XI/PS MODEL 36
POWER SUPPLY (36 AMP)



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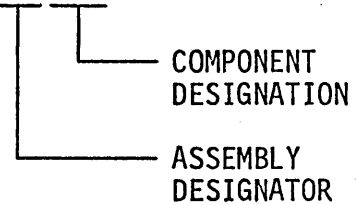
WIRE TAB LISTING

SECTION 1

ASSEMBLY IDENTIFICATION CODE		
ASSEMBLY DESIGNATOR	DRAWING NUMBER	TITLE
2C	C85500018-21	FINAL ASSEMBLY
2C1	C85500006-09	AC PWR PANEL ASSEMBLY
2C2	C85500001	+5 V HEAT SINK ASSY.
2C3	C85500004	RECTIFIER ASSEMBLY
2C4	C85500002	-15 V HEAT SINK ASSY.

EXAMPLE

2C2Q7-C



1.1 GENERAL NOTES

- 1
 Destination point for this wire to be connected at next assembly level. Refer to wire list structure diagram.
- 2
 This column defines destination E-point.
- 3
 Wire length tolerance +.5
-.0
- 4
 Crimp and solder only at destination.
- 5
 Crimp and solder only at origin.
- 6
 Crimp and solder at origin and destination.
- 7
 Use 1/4 inch heat shrink tubing at origin.
- 8
 Use 1/4 inch heat shrink tubing at destination.
- 9
 Use 1/8 inch heat shrink tubing, Part No. 33121007 at origin.
- 10
 Two wires are inserted into a common lug at destination.


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WIRE TAB LISTING

- 11
 Destination point for this wire to be connected at final assembly level.
- 12
 Use 20 AWG solid bus wire, Part No. C37611110.
- 13
 Use two (2), 14 AWG wires crimped and soldered in a common lug at both ends.
- 14
 100 Ω , 2-watt resistor, Data 100 Part No. C54400390, soldered to ring lugs and mounted across (+) and (-) terminals of 2CC4. See Drawing No. C85500000.
- 15
 470 Ω , 2-watt resistor, Data 100 Part No. C54400406, soldered to ring lugs and mounted across (+) and (-) terminals of 2CC3. See Drawing No. C85500000.
- 16
 Connect white wire to silver terminal of plug. Connect black wire to brass terminal of plug.
- 17
 This wire is used on the 208, 230 and 230E VAC versions only.
- 18
 This wire is used on the 115 V version only.
- 19
 Place heat shrink tubing over the end of the wire and lay next to relay along chassis.
- 20
 Connect wire to the silver terminal of 2C1P3.
- 21
 Connect wire to the brass terminal of 2C1P3.
- 22
 Two wires are inserted into a common lug at origin.
- 23
 This jumper wire is required for the 208 VAC version only.
- 24
 This jumper wire is required for the 230 VAC version only.

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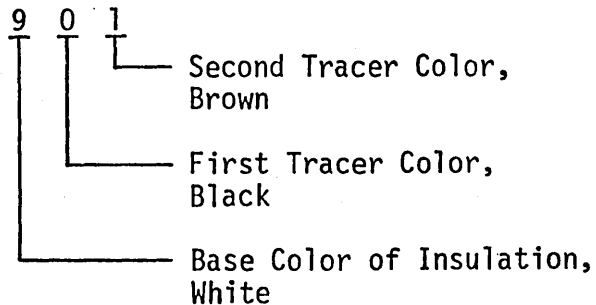
1.2 Termination Method and Code

Termination Code	Part Number	Description
S	None	Hand Solder
C1	C56150683	AMP 60617-1, 18-22 GA, Socket
C2	C56150674	AMP 60619-1, 20-14 GA, Socket
FL-1	C56221150	Panduit DV18-250 FI, Faston Lug 18-22 GA
FL-2	C56221152	Panduit DV14-250 FI, Faston Lug 14-18 GA
SS-1	C56211801	AMP 52928 Spring Spade, #5, 16-22 GA
SS-2	C56211807	AMP 52934 Spring Spade, #5, 16-14 GA
RL-1	C56214548	ETC A-221-10 Ring Lug, #10, 18-22 GA
RL-2	C56214551	ETC A-222-14 Ring Lug, 1/4", 18-22 GA
RL-3	C56214575	ETC B-225-14 Ring Lug, 1/4", 14-18-GA
RL-4	C56214588	ETC C-230-10 Ring Lug, #10, 10-12 GA
RL-5	C56214572	ETC B-237-10 Ring Lug, #10, 14-18 GA
RL-6	C56214543	ETC A-220-06 Ring Lug, #6, 18-22 GA

1.3 Wire Color Code

- 0 Black
- 1 Brown
- 2 Red
- 3 Orange
- 4 Yellow
- 5 Green
- 6 Blue
- 7 Violet
- 8 Grey
- 9 White

Example



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1.4 Reference DATA 100 Wire Part Numbers

Part Number	AWG	Color	Color Code
C37240000	14	Black	0
C37240001	14	White	9
C37435000	22	Wht-Blk	90
C37435001	18	Wht-Blk	90
C37435002	14	Wht-Blk	90
C37435003	22	Wht-Brn	91
C37435004	18	Wht-Brn	91
C37435005	14	Wht-Brn	91
C37240002	18	Wht-Red	92
C37240003	18	Wht-Org	93
C37240004	18	Wht-Yel	94
C37240005	18	Wht-Grn	95
C37435010	14	Wht-Blu	96
C37435042	18	Wht-Blu	96
C37435011	18	Wht-Vio	97
C37435012	22	Wht-Vio	97
C37435013	14	Wht-Gry	98
C37435014	22	Wht-Blk-Brn	901
C37435015	14	Wht-Blk-Red	902
C37435016	22	Wht-Blk-Org	903
C37435017	22	Wht-Blk-Yel	904
C37435018	22	Wht-Blk-Grn	905
C37435019	14	Wht-Blk-Blu	906

Part Number	AWG	Color	Color Code
C37435020	22	Wht-Blk-Vio	907
C37435021	22	Wht-Blk-Gry	908
C37435022	22	Wht-Brn-Red	912
C37435023	22	Wht-Brn-Org	913
C37435024	22	Wht-Brn-Yel	914
C37435025	22	Wht-Brn-Grn	915
C37435026	14	Wht-Brn-Grn	915
C37435027	22	Wht-Brn-Blu	916
C37435043	18	Wht-Brn-Vio	917
C37435028	22	Wht-Brn-Vio	917
C37435029	22	Wht-Brn-Gry	918
C37435030	22	Wht-Red-Org	923
C37435031	22	Wht-Red-Yel	924
C37435032	22	Wht-Red-Grn	925
C37435033	14	Wht-Red-Grn	925
C37435034	22	Wht-Red-Blu	926
C37435035	22	Wht-Red-Vio	927
C37435036	22	Wht-Red-Gry	928
C37435037	22	Wht-Org-Yel	934
C37435038	22	Wht-Org-Grn	935
C37435039	22	Wht-Org-Blu	936
C37435040	22	Wht-Org-Vio	937
C37435041	22	Wht-Org-Gry	938

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WIRE TAB LISTING

SECTION 2

- 2.0 Wire List, +5V Heat Sink Subassembly (2C2), C85500001.
- 2.1 For wire routing, see +5V Heat Sink Subassembly Drawing No. C85500001.
- 2.2 All part number designations herein are for reference only; for complete list of material, refer to +5V Heat Sink Subassembly Drawing No. C85500001.

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WIRE TAB LISTING

SECTION 3

- 3.0 Wire List, -15 V Heat Sink Subassembly (2C4), C85500002.
- 3.1 For wire routing, see -15 V Heat Sink Assembly Drawing No. C85500002.
- 3.2 All part number designations shown herein are for reference only; for complete list of material, refer to -15 V Heat Sink Assembly Drawing No. C85500002.

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SECTION 4


- 4.0 Wire List, Signal Cable Assembly C85300031.
- 4.1 For wire routing, see Cable Assembly Drawing No. C85300031 and Power Supply Subassembly Drawing No. C85500003.
- 4.2 All part number designations shown herein are for reference only; for complete list of material refer to the individual assembly drawings and List of Materials.

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NOTES	WIRE GAUGE	WIRE COLOR	TERM. METHOD	ORIGIN	DESTINATION	TERM. METHOD	△ 2	FUNCTION	△ 3
△ 1 △ 9	22	901	S	2CJ1-A	2C4Q3-B	S		-15 V DRIVE	17.5
△ 1 △ 9	22	97	S	2CJ1-F	2C4	S	1	-15 VDC	18.0
△ 1 △ 9	22	926	S	2CJ1-18	2C2Q7-C	S		+17 VDC	16.0
△ 1 △ 9	22	904	S	2CJ1-J	2C2Q7-B	S		+5 V DRIVE	19.0
△ 1 △ 9	22	905	S	2CJ1-K	2C2SCR1-G	S		+5 V C BAR	14.0
△ 1 △ 9	22	91	S	2CJ1-L	2C2W1	S		+5 VDC	17.0
△ 1 △ 9	22	907	S	2CJ1-M	2C2Q7-E	S		+5 V CUR LIM	18.5
△ 1 △ 9	22	916	S	2CJ1-U	2CC1(+)	RL-1		+22 VDC	6.5
△ 1 △ 9	22	917	S	2CJ1-5	2C4Q3-C	S		-15 V CUR LIM	17.0
△ 10 △ 9	22	914	S	2CJ1-S	2CC2(-)	RL-1		-22 VDC	11.5
△ 10 △ 11	22	914	S	2C4Q3-E	2CC2(-)	RL-1		-22 VDC	16.5
△ 9 △ 10	22	90	S	△ 2CJ1-13	2CJ2-8	C-1		SIG GND	19.0
△ 9 △ 10	22	903	S	△ 2CJ1-H	2CJ2-9	C-1		DCLO	20.5
△ 9 △ 10	22	912	S	△ 2CJ1-P	2CJ2-11	C-1		RTCL	19.0
△ 9 △ 10	22	908	S	△ 2CJ1-N	2CJ2-12	C-1		ACLO	19.0
△ 9 △ 10	22	938	S	2CJ1-4	2CJ2-10	C-1		-22 VDC	21.0
△ 9 △ 10	22	924	S	2CJ1-15	2CJ2-7	C-1		+8 V RMS	18.5
△ 9 △ 10 △ 11	18	90	S	2CJ1-8	2CC1(-)	RL-5		GND	8.5
△ 9 △ 10 △ 11	18	90	S	2CJ1-10	2CC1(-)	RL-5		GND	8.5
△ 9 △ 11	22	913	S	△ 2CJ1-R	2CT1-13	FL-2		8 VAC-B	19.5
△ 9 △ 11	22	923	S	△ 2CJ1-14	2CT1-11	FL-2		8 VAC-A	20.0
△ 9 △ 11	22	915	S	△ 2CJ1-T	2C3CR2-C	RL-2		16 VAC-B	17.5
△ 9 △ 11	22	925	S	△ 2CJ1-16	2C3CR1-C	RL-2		16 VAC-A	17.0
△ 10	22	924	C-1	2CJ3-7	2CJ2-7	C-1		+8 V RMS	3.0


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SECTION 5

- 5.0 Wire List, Subassembly, Power Supply - 36 A C85500003.
- 5.1 For wire routing, see Power Supply Subassembly Drawing No. C85500003.
- 5.2 All part number designations herein are for reference only; for complete List of Material, refer to the individual assembly drawings and List of Materials.

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SECTION 6

- 6.0 Wire List, Fan Power Cable Assembly C85300043.
- 6.1 For wire routing, see Cable Assembly Drawing No. C85300043 and Power Supply Assembly Drawing No. C85500000.
- 6.2 All part number designations shown herein are for reference only; for complete List of Material refer to the Cable Assembly Drawing No. C85300043 and AC Power Panel (2C1).
- 6.3 All 18 AWG wire referenced herein to be U.L. Type 1015, Specification Nos. C37240002 (Wht/Red), C37240003 (Wht/Org), C37240004 (Wht/Yel) and C37240005 (Wht/Grn).

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WIRE TAB LISTING

SECTION 7

- 7.0 Wire List, Subassembly, Rectifier (2C3) C85500004.
- 7.1 For wire routing, see Rectifier Subassembly Drawing No. C85500004.
- 7.2 All part number designations shown herein are for reference only; for complete List of Material refer to Rectifier Subassembly Drawing No. C85500004.

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APPROVAL			WIRE LIST, POWER SUPPLY - 36A		
APPROVAL			SIZE	DOCUMENT NUMBER	REV.
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SECTION 8

- 8.0 Wire List, Subassembly, 115 VAC Power Panel (2C1) C85500006.
- 8.1 For wire routing, see AC Power Panel Subassembly Drawing No. C85500006.
- 8.2 All part number designations shown herein are for reference only; for complete List of Material refer to AC Power Panel Drawing No. C85500006.
- 8.3 All 14 AWG wire referenced herein to be U.L. Type 1015, Specification Nos. C37240000 (black) and C37240001 (white).

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ORIGINATOR		 california data processors	TITLE		
APPROVAL			WIRE LIST, POWER SUPPLY - 36A		
APPROVAL			SIZE	DOCUMENT NUMBER	REV.
		A	C85300032	03	
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WIRE TAB LISTING

NOTES	WIRE GAUGE	WIRE COLOR	TERM. METHOD	ORIGIN	DESTINATION	TERM. METHOD	△ 2	FUNCTION	△ 3
△ 16		9		PWR CORD	2C1S1-1	FL-2		115 VAC-N	
△ 16 △ 8		0		PWR CORD	2C1F1-1	S		115 VAC-H	
		5		PWR CORD	2C1	RL-5	1	CHASSIS GND	
△ 7	14	0	S	2C1F1-2	2C1S1-3	FL-2		115 VAC-H	4.0
	14	9	FL-2	2C1S1-2	2C1K1-2	RL-5		115 VAC-N	7.0
	14	0	FL-2	2C1S1-4	2C1K1-4	RL-5		115 VAC-H	6.0
	18	2	RL-1	2C1K1-2	2C1T1-2			115 VAC-N	AR
	18	4	RL-1	2C1K1-4	2C1T1-3			115 VAC-H	AR
△ 17 △ 19	18	1		2C1T1-1				208-230 VAC-N NOT USED	
△ 20	14	9	RL-5	2C1K1-1	2C1P3-2	FL-2		115 VAC-N	5.5
△ 21	14	0	RL-5	2C1K1-3	2C1P3-1	FL-2		115 VAC-H	4.0
	14	9	RL-5	2C1K1-1	2C1TB1-1	SS-2		115 VAC-N	5.0
	14	0	RL-5	2C1K1-3	2C1TB1-5	SS-2		115 VAC-H	3.5
	18	5	RL-6	2C1P3-3	2C1	RL-5	1	CHASSIS GND	AR
	22	938	RL-6	2C1K1-5	2C1(PWB)	S	9	24 VDC(+)	10.0
△ 22	22	937	RL-6	2C1K1-6	2C1(PWB)	S	8	24 VDC(-)	9.0
△ 22	22	937	RL-6	2C1K1-6	2C1S2-4	S		24 VDC(-)	7.0
	22	918	S	2C1S2-2	2C1(PWB)	S	10	24 VDC(-)	3.0
	22	6		2C1T1-6	2C1(PWB)	S	1	18 VAC-A	AR
	22	5		2C1T1-5	2C1(PWB)	S	2	18 VAC-CT	AR
	22	4		2C1T1-4	2C1(PWB)	S	3	18 VAC-B	AR
	14	9	SS-2	2C1TB1-1	2C1TB1-3	SS-2		115 V JUMPER	3.0
	14	0	SS-2	2C1TB1-2	2C1TB1-5	SS-2		115 V JUMPER	3.0

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
SECTION 9


- 9.0 Wire List, Subassembly, 208/230 VAC Power Panel (2C1) C85500007 and C85500008.
- 9.1 For wire routing, see AC Power Panel Subassembly Drawing No. C85500007 and C85500008.
- 9.2 All part number designations shown herein are for reference only; for complete List of Materials refer to AC Power Panel Drawing No. C85500007 and C85500008.
- 9.3 All 14 AWG wire reference herein to be U.L. Type 1015, Specification Nos. C37240000 (black) and C37240001 (white).

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ORIGINATOR		 california data processors	TITLE		
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WIRE TAB LISTING

NOTES	WIRE GAUGE	WIRE COLOR	TERM. METHOD	ORIGIN	DESTINATION	TERM. METHOD	2	FUNCTION	3
8		9		POWER CORD	2C1F1-1	S		208-230 VAC-A	
8		0		POWER CORD	2C1F2-1	S		208-230 VAC-B	
		5		POWER CORD	2C1	RL-5	1	CHASSIS GND	
7	14	9	 S	2C1F1-2	2C1S1-1	FL-2		208-230 VAC-A	4.0
7	14	0	 S	2C1F2-2	2C1S1-3	FL-2		208-230 VAC-B	4.0
	14	9	 FL-2	2C1S1-2	2C1K1-2	RL-5		208-230 VAC-A	7.0
	14	0	 FL-2	2C1S1-4	2C1K1-4	RL-5		208-230 VAC-B	7.5
	18	2	RL-1	2C1K1-2	2C1T1-1			208-230 VAC-A	AR
	18	4	RL-1	2C1K1-4	2C1T1-3			208-230 VAC-B	AR
	14	9	RL-5	2C1K1-1	2C1TB1-1	SS-2		208-230 VAC-A	6.5
	14	0	RL-5	2C1K1-3	2C1TB1-5	SS-2		208-230 VAC-B	4.5
	22	938	RL-6	2C1K1-5	2C1(PWB)	S	9	24 VDC(+)	10.0
22	22	937	RL-6	2C1K1-6	2C1(PWB)	S	8	24 VDC(-)	9.0
22	22	937	RL-6	2C1K1-6	2C1S2-4	S		24 VDC(-)	7.0
	22	918	S	2C1S2-2	2C1(PWB)	S	10	24 VDC(-)	3.0
	22	6		2C1T1-6	2C1(PWB)	S	1	18 VAC-A	AR
	22	5		2C1T1-5	2C1(PWB)	S	2	18 VAC-CT	AR
	22	4		2C1T1-4	2C1(PWB)	S	3	18 VAC-B	AR
18 19	18	2		2C1T1-2				NOT USED	
23	14	0	SS-2	2C1TB1-2	2C1TB1-4	SS-2		208 V JUMPER	3.0
24	14	0	SS-2	2C1TB1-2	2C1TB1-3	SS-2		230 V JUMPER	3.0


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









SECTION 10


- 10.0 Wire List, Subassembly 230 V AC Power Panel (2C1),
European version C85500009
- 10.1 For wire routing, see AC Power Panel Subassembly Drawing
No. C85500009.
- 10.2 All part number designations shown herein are for reference
only; for complete List of Material refer to AC Power Panel
Drawing No. C85500009.
- 10.3 All 14 AWG wire referenced herein to be U.L. Type 1015,
Specification Nos. C37240000 (Black) and C37240001 (White).

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WIRE TAB LISTING

NOTES	WIRE GAUGE	WIRE COLOR	TERM. METHOD	ORIGIN	DESTINATION	TERM. METHOD		FUNCTION	
		6		POWER CORD	2C1S1-1	FL-2		230 VAC-N	AR
		1		POWER CORD	2C1F1-1	S		230 VAC-H	AR
		5		POWER CORD	2C1	RL-5		CHASSIS GND	
	14	0	S	2C1F1-2	2C1S1-3	FL-2		230 VAC-H	4.0
	14	9	 FL-2	2C1S1-2	2C1K1-2	RL-5		230 VAC-N	7.0
	14	0	 FL-2	2C1S1-4	2C1K1-4	RL-5		230 VAC-H	7.5
	18	2	RL-1	2C1K1-2	2C1T1-1			230 VAC-N	AR
	18	4	RL-1	2C1K1-4	2C1T1-3			230 VAC-H	AR
	14	9	RL-5	2C1K1-1	2C1TB1-1	SS-2		230 VAC-N	5.5
	14	0	RL-5	2C1K1-3	2C1TB1-5	SS-2		230 VAC-H	3.5
	22	938	RL-6	2C1K1-5	2C1(PWB)	S	9	24 VDC(+)	10.0
	22	937	RL-6	2C1K1-6	2C1(PWB)	S	8	24 VDC(-)	9.0
	22	937	RL-6	2C1K1-6	2C1S2-4	S		24 VDC(-)	7.0
	22	918	S	2C1S2-2	2C1(PWB)	S	10	24 VDC(-)	3.0
	22	6		2C1T1-6	2C1(PWB)	S	1	18 VAC-A	AR
	22	5		2C1T1-5	2C1(PWB)	S	2	18 VAC-CT	AR
	22	4		2C1T1-4	2C1(PWB)	S	3	18 VAC-B	AR
	14	0	SS-2	2C1TB1-2	2C1TB1-3	SS-2		230 V JUMPER	3.0
 	18	1		2C1T1-2				115 VAC-N NOT USED	


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WIRE TAB LISTING

SECTION 11

- 11.0 Wire List, Final Assembly C85500018 thru C85500021.
- 11.1 For wire routing, see Power Supply Assembly Drawing No. C85500000.
- 11.2 All part number designations shown herein are for reference only; for complete List of Material refer to the Power Supply Assembly, Drawing Numbers C85500018 thru C85500021.

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





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NOTES	WIRE GAUGE	WIRE COLOR	TERM. METHOD	ORIGIN	DESTINATION	TERM. METHOD	△ 2	FUNCTION	△ 3
	22	916	S	2CJ1-U	2CC1(+)	RL-1		+22 VDC	6.5
△ 10	22	914	S	2CJ1-S	2CC2(-)	RL-1		-22 VDC	11.5
△ 10	22	914	S	2C4Q3-E	2CC2(-)	RL-1		-22 VDC	16.5
	22	915	S	2CJ1-T	2C3CR2-C	RL-2		16 VAC-B	17.5
	22	925	S	2CJ1-16	2C3CR1-C	RL-2		16 VAC-A	17.5
	22	923	S	2CJ1-14	2CT1-11	FL-2		8 VAC-A	20.0
	22	913	S	2CJ1-R	2CT1-13	FL-2		8 VAC-B	19.5
	22	936	FL-2	2C2S1-2	2C1PWB	S	4	24 VDC RET A	7.5
	22	936	FL-2	2C2S1-1	2C1PWB	S	5	24 VDC RET B	7.5
	22	927	C-1	2CJ4-1	2C1PWB	S	6	24 VDC RET A (PANEL SW)	22.0
	22	928	C-1	2CJ4-7	2C1PWB	S	7	24 VDC RET B (PANEL SW)	22.0
	22	934	C-1	2CJ4-2	2C1S2-3	S		PNL LCK	22.0
	22	935	C-1	2CJ4-8	2C1S2-1	S		PNL LCK RET	22.0
	18	92	C-1	2CJ4-3	2C1TB1-5	SS-1		FAN PWR A	20.0
	18	93	C-1	2CJ4-4	2C1TB1-3	SS-1		FAN PWR A RET	20.0
	18	94	C-1	2CJ4-5	2C1TB1-2	SS-1		FAN PWR B	20.0
	18	95	C-1	2CJ4-6	2C1TB1-1	SS-1		FAN PWR B RET	20.0
△ 10	18	90	FL-2	2CT1-12	2CW1	RL-5	2	GND	7.0
△ 10	18	90	RL-2	2C2CR2-C	2CW1	RL-5	2	GND	6.0
△ 10	18	90	S	2CJ1-8	2CC1(-)	RL-5		GND	8.5
△ 10	18	90	S	2CJ1-10	2CC1(-)	RL-5		GND	8.5
△ 6	14	925	RL-5	2CT1-6	2C3CR1-C	RL-3		16 VAC-A	11.0
△ 5	14	902	RL-5	2CT1-7	2C3CR3-A	S		8 VAC-A	6.0


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NOTES	WIRE GAUGE	WIRE COLOR	TERM. METHOD	ORIGIN	DESTINATION	TERM. METHOD	2	FUNCTION	3
13	14	90	RL-4	2CT1-8	2CW1	RL-4	2	GND	9.0
5	14	906	RL-5	2CT1-9	2C3CR4-A	S		8 VAC-B	3.0
6	14	915	RL-5	2CT1-10	2C3CR2-C	RL-3		16 VAC-B	7.5
6 10	14	96	RL-3	2C3CR3-C	2CC5(+)	RL-4		+12 VDC	8.0
6 10	14	96	RL-3	2C3CR4-C	2CC5(+)	RL-4		+12 VDC	9.0
13	14	96	RL-4	2CC4(+)	2CC5(+)	RL-4		+12 VDC	5.0
4 10	14	96	S	2C2Q4-C	2CC4(+)	RL-4		+12 VDC	9.0
4 10	14	96	S	2C2Q1-C	2CC4(+)	RL-4		+12 VDC	11.5
4 10	14	98	S	2C3CR1-A	2CC3(-)	RL-4		-26 VDC	4.5
4 10	14	98	S	2C3CR2-A	2CC3(-)	RL-4		-26 VDC	5.0
4	14	98	S	2C4Q1-C	2CC3(-)	RL-5		-26 VDC	6.5
4 10	14	90	C-2	2CJ2-4	2CW1	RL-4	1	PWR GND	8.0
4 10	14	90	C-2	2CJ3-4	2CW1	RL-4	1	PWR GND	9.5
4 10	14	90	C-2	2CJ2-5	2CW1	RL-4	3	PWR GND	10.0
4 10	14	90	C-2	2CJ3-5	2CW1	RL-4	3	PWR GND	11.5
4 10	14	90	C-2	2CJ2-6	2CW1	RL-4	5	PWR GND	11.0
4 10	14	90	C-2	2CJ3-6	2CW1	RL-4	5	PWR GND	12.0
6	14	90	RL-5	2CC1(-)	2CC2(+)	RL-5		GND	4.0
6	14	90	RL-5	2CC2(+)	2CW1	RL-5	6	GND	5.0
		1		2CT1-1	2C1TB1-1	SS-2		PRIMARY 1	13.0
		2		2CT1-2	2C1TB1-2	SS-2		PRIMARY 2	13.0
		3		2CT1-3	2C1TB1-3	SS-2		PRIMARY 3	13.0
		4		2CT1-4	2C1TB1-4	SS-2		PRIMARY 4	13.0
		5		2CT1-5	2C1TB1-5	SS-2		PRIMARY 5	13.0
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REVISIONS


REV.	CO		DRFT.	DATE	CHK'D	APPD.
01	0	Released per DRN DS00064	RB	5-10-74	UB	UB
02	DS00089-01	Revised per ECO	RB	5-30-74	UB	UB
03	DS00097-01	Revised per ECO	RB	6-13-74	UB	UB
04	DS00130-01	Revised per ECO	RM	9-5-74	DWT	UB
05	DS00224-01	Revised per ECO	G.W.	11-7-74	DWT	UB PT
06	DS00271-01	Revised per ECO	RM	2-24-75	DWT	UB
07	DS00285-01	Revised per ECO	SG	3-25-75	UB	UB
08	DS00338-A	Revised per ECO	RM	7-1-75	UB	UB

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LIST OF MATERIALS


ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		66080110	PWB, REGULATOR			
2							
3	9	Q1, 2, 3, Q6, 7, 8, Q9,10,11,	51122745	TRANSISTOR, NPN, TO-5		FAIRCHILD	2N2219
4	4	Q4,5,12,15	51162745	TRANSISTOR, PNP, TO-5		FAIRCHILD	2N2905
5	1	Q14	51125400	TRANSISTOR, NPN, TO-220		FAIRCHILD/TI	2N6121/2N5293
6							
7	1	U1	51426015	I.C. VOLTAGE REGULATOR			723DC
8							
9	4	CR3, CR6, CR7, CR10	51622000	DIODE, ZENER		DICKSON	1N5231B
10	4	CR4, 5, 8, CR11	51631010	DIODE, SWITCH		FAIRCHILD, G.E.	1N4606
11	2	CR1, CR2	51811200	DIODE, BRIDGE		VARO	VS248
12							
13	13		61872150	PAD, TRANSISTOR, TO-5		DELBERT BLINN	404-200
14	3	R9, 33, R56	54400069	RESISTOR, 15 Ω , 1/4 W, 5%			RC07GF150J
15	2	R15, 63	54400077	33 Ω			RC07GF330J
16	6	R46, 51, R53, 57, R59, 61	54400261	100 Ω			RC07GF101J
17	1	R14	54400263	120 Ω			RC07GF121J
18	1	R26	54400265	150 Ω			RC07GF151J
19	2	R34, 62	54400270	240 Ω			RC07GF241J
20	2	R27, 31	54400282	750 Ω			RC07GF751J
21	4	R16, 24, R38, 45	54400285	1K			RC07GF102J
22	1	R48	54400293	2.2K			RC07GF222J
23	1	R7	54400297	3.3K			RC07GF332J
24	6	R11, 32, R40, 41, R47, 54	54400473	4.7K			RC07GF472J
25	1	R23	54400475	5.6K			RC07GF562J
26	3	R8, 12, R35	54400481	10K			RC07GF103J
27	1	R21	54400483	RESISTOR, 12K, 1/4 W, 5%			RC07GF123J
28							
29	1	R39	54551589	RESISTOR, 200 Ω , 1/4 W, 2%			RL07S201G
30	1	R6	54400271	270 Ω			RL07S271G
31	1	R29	54551600	360 Ω			RL07S361G
32	2	R10, R52	54551606	470 Ω			RL07S471G
33	3	R3, 17, R44	54551608	510 Ω			RL07S511G
34	1	R58	54551626	1.2K			RL07S122G
35	2	R49, 50	54551630	1.5K			RL07S152G
36	5	R4, 5, 25, R42, 43	54551640	RESISTOR, 2.4K, 1/4 W, 2%			RL07S242G

FORM NO. 3-17Z

ORIGINATOR	<i>D. Lowman</i>	4-2-74	 california data processors	TITLE	BOARD ASSEMBLY, REGULATOR	
APPROVAL	<i>[Signature]</i>	4-5-74		SIZE	DOCUMENT NUMBER	REV.
	<i>[Signature]</i>	4-5-74		B	81080110	02
	<i>[Signature]</i>	4-5-74		DS	SHEET 2 OF 3	PAGE
	<i>[Signature]</i>	4-5-74				

LIST OF MATERIALS

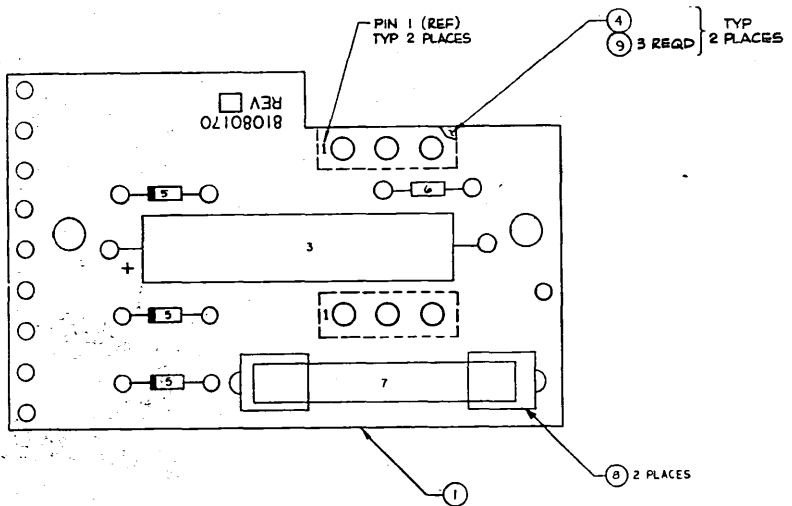
ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
37	1	R30	54551540	RESISTOR, 33 Ω , 1/4 W, 2%			RL07S330G
38	1	R13	54400371	RESISTOR, 1K, 1W, 5%			
39	1	R28	54400390	RESISTOR, 100 Ω , 2W, 5%			
40	3	R1, 2, 55	54312200	RESISTOR, 10 Ω , 10W, 10%		DALE	CP-5
41	1	R36	54400278	RESISTOR, 510 Ω , 1/4W, 5%			RC07GF511J
42	3	R18, 20, R37	54773206	TRIMPOT, 100 Ω , 10%		CTS	360S
43	3	R19, 22, R60	54773216	TRIMPOT, 1K, 10%		CTS	360S
44							
45	2	C8, 12	52253010	CAPACITOR, .002 μ f, 100V, 10%		SPRAGUE	
46	8	C1, 2, 3, C5, 6, 7, C9, 14	52252500	CAPACITOR, .01 μ f, 100V		SPRAGUE	
47	1	C4	52326001	CAPACITOR, 4.7 μ f, 20V, 20%		CORNING	
48	2	C16, 17	52316250	CAPACITOR, 200 μ f, 25V		CDE/GE	NLW/76F
49	2	C10, 11	52316125	CAPACITOR, 400 μ f, 12V		CDE/GE	NLW/76F
50	1	C13	52213206	CAPACITOR, 180pf, 5%			
51							
52	2	F1, 2	55233024	FUSE, 3AG, 2AMP/230V			
53	4		55611250	FUSE CLIP		BUSSMAN	5682-01
54	1	Q13	51161710	TRANSISTOR			MPS3640
55	1	Q16	51121700	TRANSISTOR			MPS2369

FORM NO. 3-172	ORIGINATOR		 california data processors	TITLE		
	APPROVAL	4-5-74		BOARD ASSEMBLY, REGULATOR		
		4/5/74		SIZE	DOCUMENT NUMBER	REV.
		4-15-74		B	81080110	02
				DS	SHEET 3 OF 3	PAGE

The information shown on this drawing is the property of California Data Processors. It is to be used only for the purpose for which it was prepared. It is not to be used for any other purpose without the written consent of California Data Processors.

RELEASE STATUS			REVISIONS				
RELEASE LEVEL	DESIGN SERVICES	DATE	ZONE	LTR	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL				01	REL PER D2R, DS 00011	11/14/73	WJG
ENGINEERING	<input checked="" type="checkbox"/>	1-12-74		02	REVISED PGR ECO D500072-01	1-22-74	WJG
PRODUCTION							

ATTACHED E.O. RECORD	
E.O. NUMBER	DATE



- 3. FOR BOARD SCHEMATIC SEE 21080170
- 2. FOR WIRE LIST SEE 85300032
- 1. MAKE PER DATA 100 SPEC 21000010

NOTES: UNLESS OTHERWISE SPECIFIED


PART/ASSY NO. & QTY PER ASSY		NOTE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION/MATERIAL	SPEC/SOURCE	CODE IDENT NO.	FIND NO.
PART/ASSY REV LTR		02					
85500009							
85500008							
85500007							
85500006							
REV	NEXT ASSY	USED ON					
APPLICATION							

PARTS LIST		CONTRACT NO.		california data processors	
DO NOT SCALE DRAWING		DRAWN: <i>[Signature]</i> 11/14/73		2019 south rocky street - santa ana, california 92705 - (714) 538-8271	
CHECKED: <i>[Signature]</i> 1-11-74		ENGR: <i>[Signature]</i> 11/14/73		DWG TITLE	
PROJ. ENGR		TECH. DIR. <i>[Signature]</i>		BOARD ASSEMBLY, CONTROL	
STANDARD HOLD TOLERANCE PER AND DIM		PROD. MGT. <i>[Signature]</i>		SIZE	
TOLERANCE PER AND DIM PER AND DIM		PRODUCTION		D	
INTERPRET DIMENSIONS AND TOLERANCES PER THIS TITLE		Q.A. <i>[Signature]</i> 11/14		CODE IDENT NO.	
DIMENSIONS AND FITS UNLESS OTHERWISE SPECIFIED		SCALE: 4/1		DWG NO.	
		11/14		81080170	
		11/14		REV 02	
				SHEET 1 OF 2	

Page 2 of 2, 21080170, Board Assembly Control
 81080170 1 of 2
 Board Assembly Control
 201071080170

LIST OF MATERIALS

ITEM NO.	QTY. REQD.	REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	NOTES	VENDOR	VENDOR PART NUMBER
1	1		66080170	PWB, CONTROL			
2							
3	1	C1	52316350	CAPACITOR, 100 μ f, 50 V		STM	31C100/50
4	2	P1, P2	56150663	SOCKET HOUSING		AMP	1-480304-0
5	3	CR1, 2, 3	51633000	DIODE			1N4001
6	1	R1	54400481	RESISTOR 10K, 1/4W, 5%			
7	1	F1	55233026	FUSE 3 AG, 0.25 AMP/230 V			
8	2		55611250	FUSE CLIP		LITTLE FUSE	102068
9	6		56150672	SOCKET, CONTACT, PCB		AMP	61320-1

ORIGINATOR	<i>Dw Bowman</i>	3-26-74	 california data processors	TITLE	REV.	
APPROVAL	<i>[Signature]</i>	3-26-74		BOARD ASSEMBLY, CONTROL		
	<i>[Signature]</i>	4-11-74		SIZE	DOCUMENT NUMBER	
	<i>[Signature]</i>	4-11-74		B	81080170	02
	<i>[Signature]</i>	4-11-74		DS	SHEET 2 OF 2	PAGE

FORM NO. 3-172

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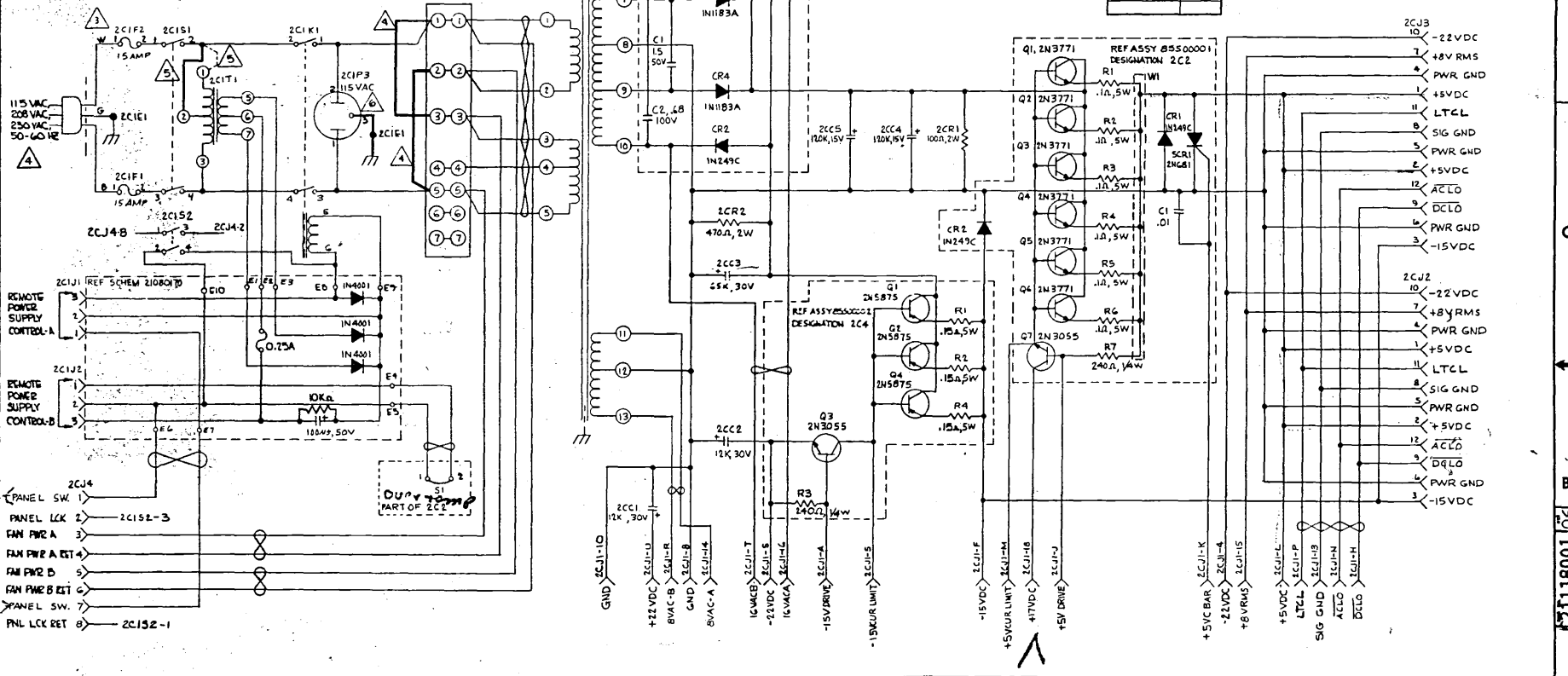
3

2

1

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TABULATION BLOCK			
LINE VOLTAGE	JUMPER 1	JUMPER 2	2C1P3
115VAC	① TO ③	④ TO ⑥	USED
208VAC	② TO ④	① TO ③	NOT USED
230VAC	③ TO ⑤	② TO ④	NOT USED



⚠ POWER SUPPLY MAY BE OPERATED ON ONE OF THREE INPUT VOLTAGES. JUMPER WIRES ARE SHOWN FOR THE 115VAC INPUTS.

⚠ FUSE 2C1F2 IS NOT USED ON 115VAC AND 230VAC (EUROPEAN) VERSIONS.

2. FOR TEST SPECIFICATION SEE 22413012.

1. FOR POWER SUPPLY ASSY'S SEE C8550001B-C8550002I.

NOTES: UNLESS OTHERWISE SPECIFIED

⚠ 2C1P3 USED IN 115V APPLICATION ONLY.

⚠ TERMINAL ① USED IN 208-230V-230V APPLICATION ONLY.

⚠ TERMINAL ② USED IN 115V APPLICATION ONLY.

RELEASE STATUS				REVISIONS			
RELEASE LEVEL	DES SERVICES	DATE	ZONE	LTR	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL					01 DEL PER ECO DS 00035	3-7-74	
ENGINEERING		3-1-74			02 REV PER ECO DS 00054-01	4-9-74	
PRODUCTION					03 REVISED PER ECO DS 00042-01	5-12-74	
					04 REVISED PER ECO DS 00072-01	5-20-74	
					05 REVISED PER ECO DS 00094-01	6-4-74	
					06 REVISED PER ECODS 00120-01	9-7-74	

FROM PANEL SW

2118001 1/51

100811721

PART/ASSY NO. & QTY PER ASSY		NOTE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION / MATERIAL	SPEC/SOURCE	CODE IDENT NO.	FIND NO.
05		DO NOT SCALE DRAWING					
PART/ASSY REV LTR		CONTRACT NO.		PARTS LIST			
		DRAWN 3/1/74		california data processors			
		CHECKED 3/1/74		2075 south ribery street - santa ana, california 92705 (714) 938-8211			
		ENGR. [Signature]		DWG TITLE			
		PROD. ENGR. [Signature]		SCHEMATIC, POWER SUPPLY - 36 AMP			
		TECH. DIR. [Signature]		SIZE CODE IDENT NO. DWG NO.			
		PROD. MGT. [Signature]		D 21118001			
		PRODUCTION		SCALE: NONE REV 06 SHEET 1 OF 1			

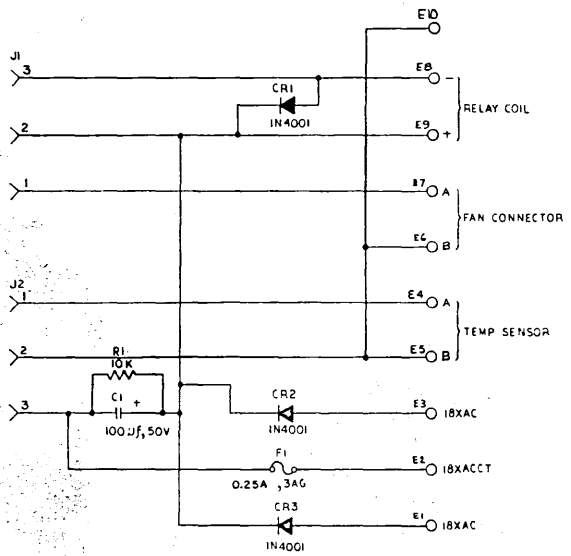
ES-04-30.5V

39.00

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RELEASE STATUS			REVISIONS			
RELEASE LEVEL	DES SERVICES	DATE	ZONE/LTR	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL			01	REL PER DRN DS.00035	3-7-72	MLB
ENGINEERING		2-1-72	02	REV PER ECO DS.00044-01	3-27-74	MLB
PRODUCTION			03	REVISE PER ECO DS.00072-01	5-16-74	MLB

ATTACHED E. O. RECORD	
E. O. NUMBER	DATE



2. FOR ASSEMBLY SEE 81080170
 1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATION PREFIX WITH 2.C1
 NOTES: UNLESS OTHERWISE SPECIFIED

PART/ASSY NO. & QTY PER ASSY	NOTE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION/MATERIAL	SPEC/SOURCE	CODE IDENT NO.	FIND NO.
64C80170	03					

PART/ASSY REV LTR		CONTRACT NO.	

DRAWN		CHECKED		ENGR.		TECH. DIR.		PROD. MGT.		PRODUCTION	

G.A.		DATE	

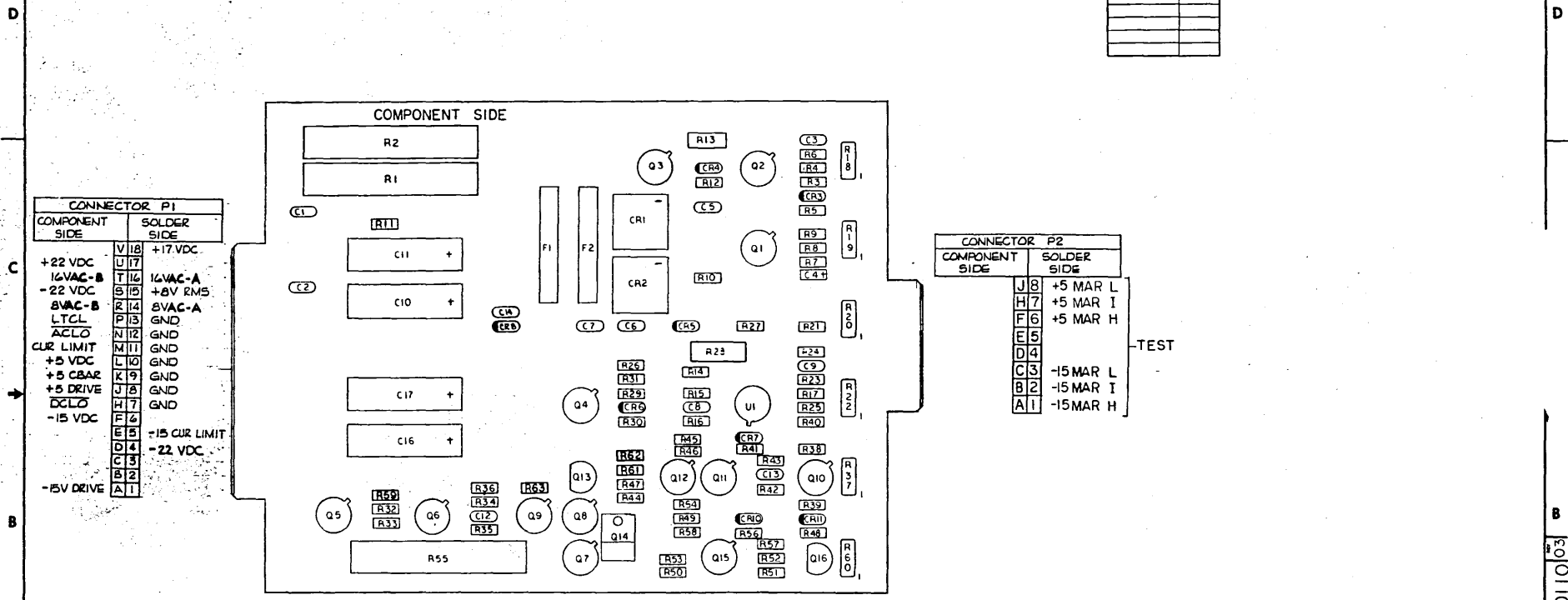
DWG TITLE		SIZE		CODE IDENT NO.		DWG NO.	
BOARD SCHEMATIC, CONTROL		D					

SCALE: NONE		REV 03		SHEET 1 OF 1	

21080170 03

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RELEASE STATUS			REVISIONS				
RELEASE LEVEL	DES. SERVICES	DATE	ZONE	LTR	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL			01		FEL PER DPN D500035	3-2-78	WJ
ENGINEERING			02		REVISED PER ECO D500053-01	3-29-78	WJ
PRODUCTION			03		REVISED PER ECO D500061-01	4-11-78	WJ
ATTACHED E.O. RECORD							
E.O. NUMBER							
DATE							



COMPONENT LOCATION MAP

7. ALL CAPACITORS ARE IN MICROFARADS AND 100V
6. ALL DIODES ARE IN4606
5. ALL RESISTORS ARE 1/4W, ±5%
4. REFERENCE DESIGNATIONS SHOWN ARE PARTIAL FOR COMPLETE DESIGNATION PREFIX WITH 2 C
3. FOR POWER SUPPLY SCHEMATIC, SEE 21118001.
2. FOR POWER SUPPLY ASSEMBLY, SEE 85500000.
1. FOR BOARD ASSEMBLY, SEE 81080110.

NOTES: UNLESS OTHERWISE SPECIFIED

PART/ASSY NO. & QTY PER ASSY		NOTE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION / MATERIAL	SPEC/SOURCE	CODE IDENT NO.	FIND NO.																
03							1																
PART/ASSY REV LTR		PARTS LIST																					
81080110		<table border="1"> <tr> <td>CONTRACT NO.</td> <td>21118001</td> </tr> <tr> <td>DRAWN</td> <td>D. [Signature]</td> </tr> <tr> <td>CHECKED</td> <td>[Signature]</td> </tr> <tr> <td>ENGR.</td> <td>[Signature]</td> </tr> <tr> <td>PROG. ENGR.</td> <td>[Signature]</td> </tr> <tr> <td>TECH. DIR.</td> <td>[Signature]</td> </tr> <tr> <td>PROD. MGT.</td> <td>[Signature]</td> </tr> <tr> <td>Q.A.</td> <td>[Signature]</td> </tr> </table>						CONTRACT NO.	21118001	DRAWN	D. [Signature]	CHECKED	[Signature]	ENGR.	[Signature]	PROG. ENGR.	[Signature]	TECH. DIR.	[Signature]	PROD. MGT.	[Signature]	Q.A.	[Signature]
CONTRACT NO.	21118001																						
DRAWN	D. [Signature]																						
CHECKED	[Signature]																						
ENGR.	[Signature]																						
PROG. ENGR.	[Signature]																						
TECH. DIR.	[Signature]																						
PROD. MGT.	[Signature]																						
Q.A.	[Signature]																						
APPLICATION		<table border="1"> <tr> <td>DATE</td> <td>9/21/78</td> </tr> <tr> <td>DATE</td> <td>1-4-78</td> </tr> <tr> <td>DATE</td> <td>3-9-78</td> </tr> <tr> <td>DATE</td> <td>3/1/78</td> </tr> <tr> <td>DATE</td> <td>3/1/78</td> </tr> </table>						DATE	9/21/78	DATE	1-4-78	DATE	3-9-78	DATE	3/1/78	DATE	3/1/78						
DATE	9/21/78																						
DATE	1-4-78																						
DATE	3-9-78																						
DATE	3/1/78																						
DATE	3/1/78																						
		<table border="1"> <tr> <td>SCALE</td> <td>NONE</td> </tr> <tr> <td>REV</td> <td>03</td> </tr> <tr> <td>SHEET</td> <td>1 OF 2</td> </tr> </table>						SCALE	NONE	REV	03	SHEET	1 OF 2										
SCALE	NONE																						
REV	03																						
SHEET	1 OF 2																						

21080110103

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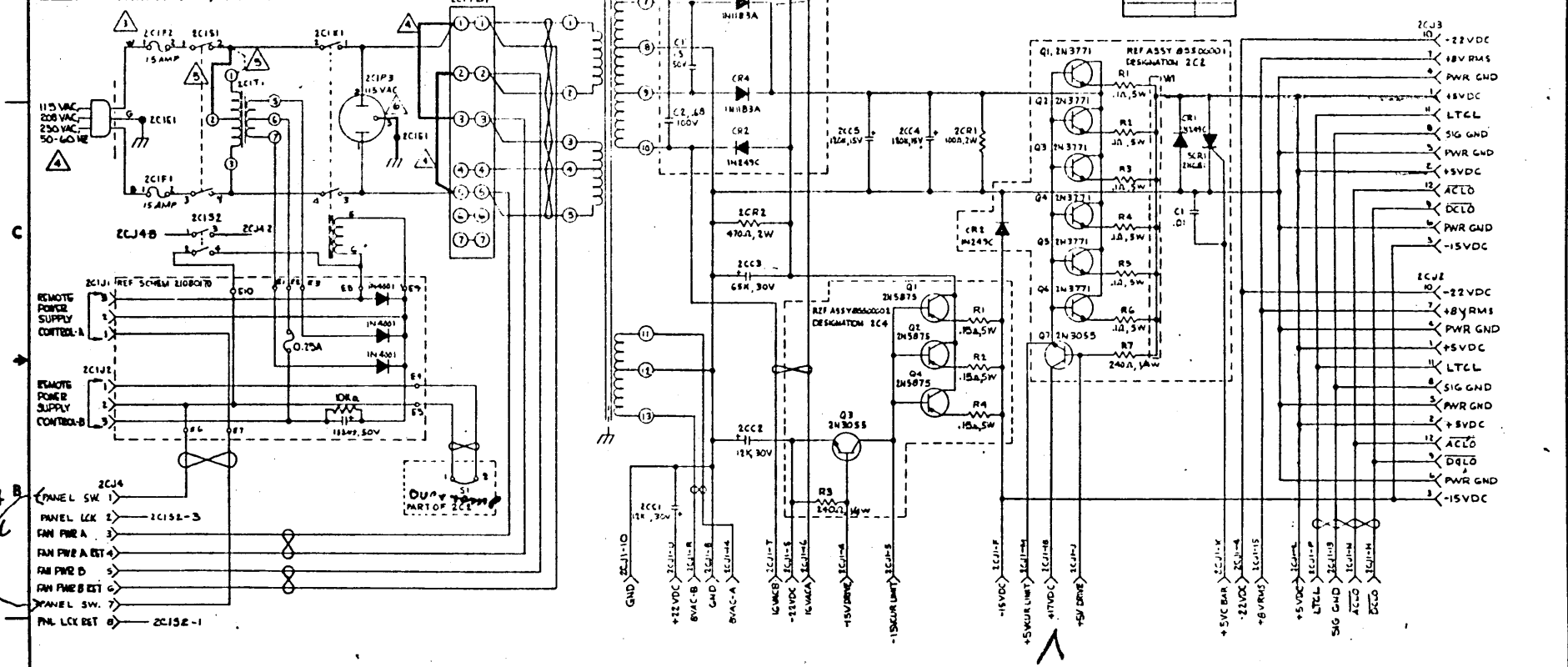
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TAPING BLOCK			
LINE VOLTAGE	NUMBER 1	NUMBER 2	2C1P3
115VAC	(1) TO (8)	(1) TO (5)	USED
230VAC	(1) TO (8)	(1) TO (5)	NOT USED
230VAC	(2) TO (8)	(1) TO (5)	NOT USED

RELEASE STATUS		REVISIONS		DATE	APPROVED
LEVEL	DESCRIPTION	NO.	DESCRIPTION		
EXPERIMENTAL		1	REV FOR DWN OS 050001	7-77	[Signature]
ENGINEERING		2	REV FOR ELO 050002	8-77	[Signature]
PRODUCTION		3	REV FOR ELO 050002	8-77	[Signature]
		4	REV FOR ELO 050002	8-77	[Signature]
		5	REV FOR ELO 050002	8-77	[Signature]
		6	REV FOR ELO 050002	8-77	[Signature]
		7	REV FOR ELO 050002	8-77	[Signature]
		8	REV FOR ELO 050002	8-77	[Signature]



10W
50W
SW

5-36A

15 RA

2118001-1-51

9010081127

⚠ POWER SUPPLY MAY BE OPERATED ON ONE OF THESE INPUT VOLTAGES. JUMPER WIRES ARE SHOWN FOR THE 115VAC INPUTS.

⚠ USE 2C1P2 IS NOT USED ON 115VAC AND 230VAC (EUROPEAN) VERSIONS.

2. FOR TEST SPECIFICATION SEE 224-3012 - 1. FOR POWER SUPPLY ASSY'S SEE C05500015-C05500021.

NOTES: UNLESS OTHERWISE SPECIFIED

⚠ 2C1P3 USED IN 115V APPLICATION ONLY.

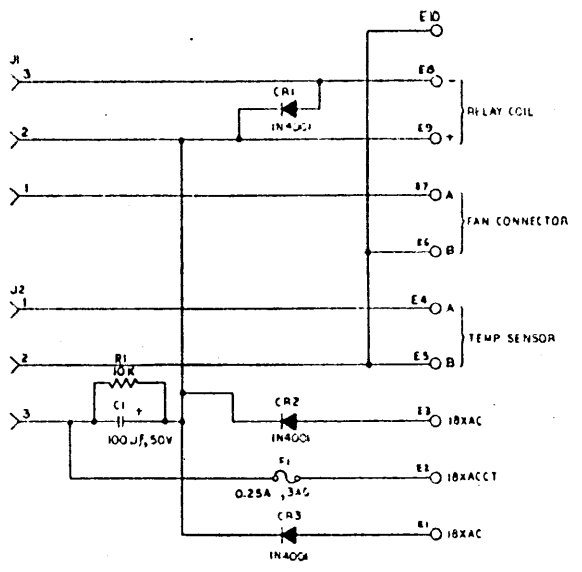
⚠ TERMINAL ① USED IN 230V-230V-230V APPLICATION ONLY

⚠ TERMINAL ② USED IN 115V APPLICATION ONLY.

PART ASSY NO. & QTY PER ASSY	NOTE: PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION/MATERIAL	SPEC/SOURCE	LOOSE IDENT NO.	FINO
05	NO NET SCALE DRAWING				
PART ASSY REV LTR		PARTS LIST		CONTRACT NO.	
				california data processors	
				2000 South Wilshire Blvd. Suite 100, Los Angeles 90025 (213) 798-0210	
				DRAWN: [Signature]	
				CHECKED: [Signature]	
				ENG: [Signature]	
				FRONT PANEL: [Signature]	
				TECH. CIR.: [Signature]	
				P.W.G. M.S.T.: [Signature]	
				PARTS LIST: [Signature]	
				G.A.: [Signature]	
NEXT ASSY USED ON APPLICATION		SCALE NONE		KEY - 06 SHEET 1 OF 1	

ES-50 32.8V
37.0V

1. FOR ASSEMBLY SEE B1080170
 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATION PREFIX WITH 201
 NOTES UNLESS OTHERWISE SPECIFIED

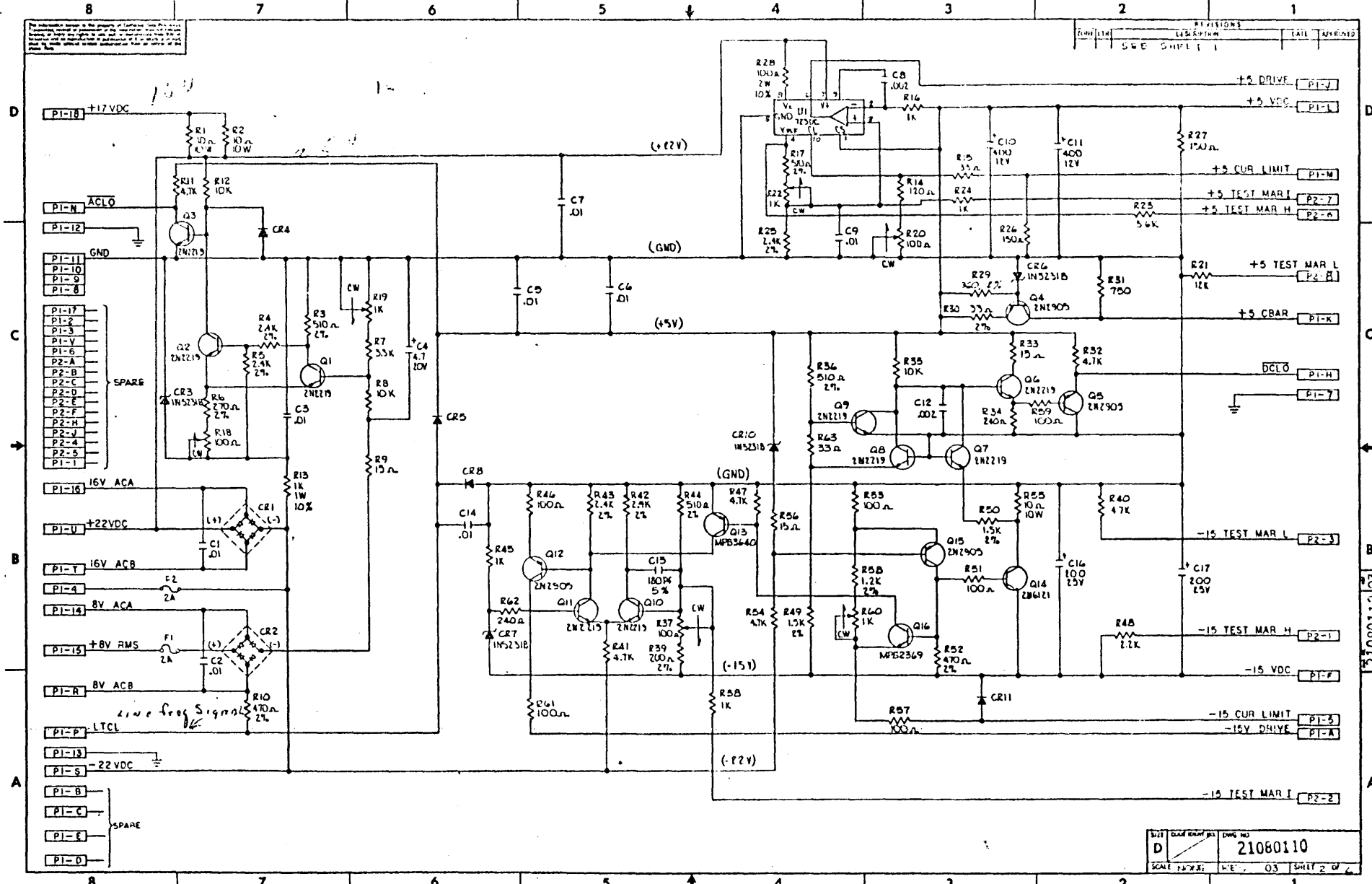


RELEASE STATUS			REVISIONS			
RELEASE LEVEL	APPROVED	DATE	NO.	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL			1	REVISED L.S. BY 20044 OI	1/27/54	200
ENGINEERING			2	POWER HAR ASS 66-33072-D1	4/15/54	100
PRODUCTION						

PART/ASSY NO. & QTY PER ASSY		NOTE: PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION / MATERIAL	SPEC SOURCE	CODE	FIND NO.
PART/ASSY REV LTR		DO NOT SCALE DRAWING	PARTS LIST			
		CONTRACT NO.	California data processors			
		DESIGN CHECK	DHW TITLE			
		ENG'G	BOARD SCHEMATIC, CONTROL			
		TECH DR	SIZE D			
		PROJ. NO.	21080170			
		PRICE	SCALE NONE			
		APPROVAL	REV. 03 SHEET 1 OF 1			

21080170 03

LTCL $I_{H1} = 5.0 \pm .8 \text{ Vdc}$
 $I_{H0} = 0.0 \pm .9 \text{ Vdc}$ } Page 2.5
 DC LO $+4.0 \text{ Vdc Min}$
 AC LO $+5 \text{ Vdc}$ } Page 2.4



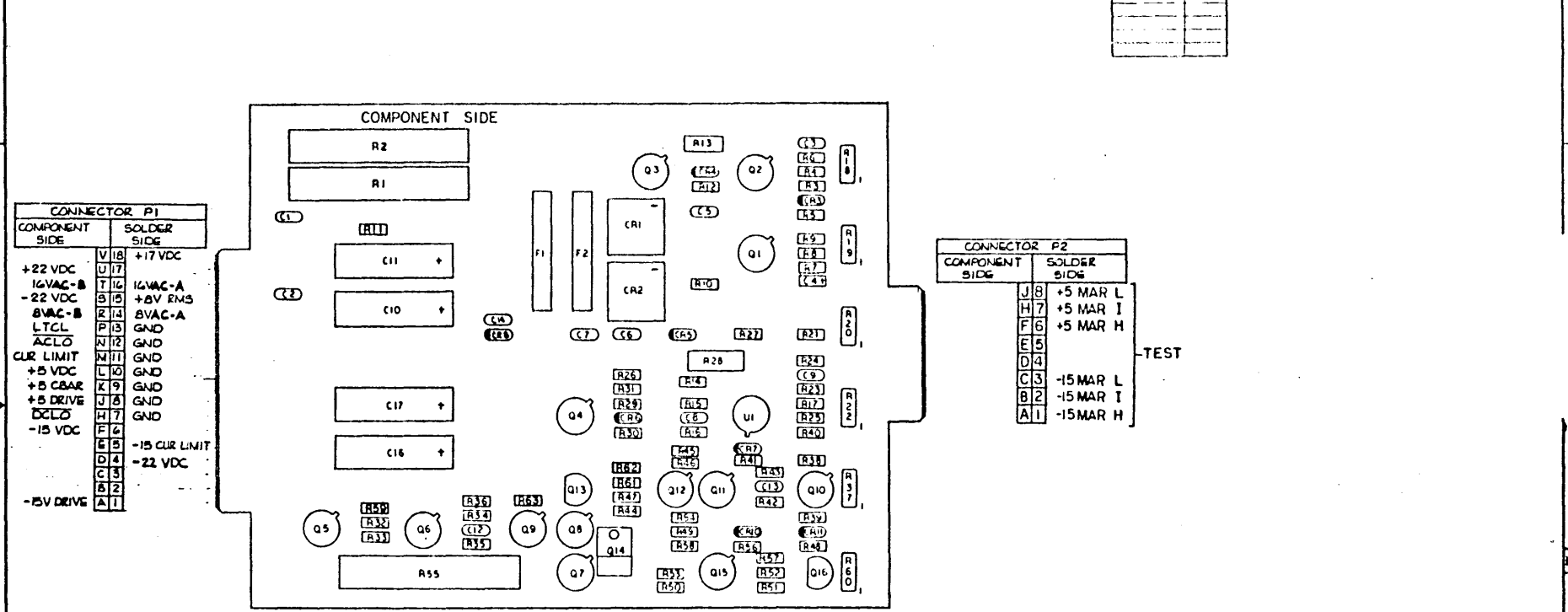
21080110
 2 of 2
 21080110

REV	DATE	DWG NO.
D		21080110
SCALE	SHEET	SHEET 2 OF 4

8 7 6 5 4 3 2 1

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RELEASE STATUS		DATE	REVISIONS	DATE	APPROVED
DESIGN LEVEL	DESIGNED	1/17/75	1	1/17/75	[Signature]
ENGINEERING	REVIEWED	1/20/75	2	1/20/75	[Signature]
PRODUCTION	REVIEWED	1/20/75	3	1/20/75	[Signature]



COMPONENT LOCATION MAP

- ALL CAPACITORS ARE IN MICROFARADS AND 100V
- ALL DIODES ARE 1N4006
- ALL RESISTORS ARE 1/4W, ±5%
- REFERENCE DESIGNATIONS SHOWN ARE PARTIAL FOR COMPLETE DESIGNATION PREFIX WITH 2 C
- FOR POWER SUPPLY SCHEMATIC, SEE 21110001.
- FOR POWER SUPPLY ASSEMBLY, SEE 00500000.
- FOR BOARD ASSEMBLY, SEE 0100110.

NOTES: UNLESS OTHERWISE SPECIFIED

PART ASSY NO. & QTY PER ASSY		NOTE: PART OR IDENTIFYING NO.	FOR PARTS LIST SEE GHT 2	SPEC SOURCE	CODE IDENT NO	FIND NO
PART ASSY REV LTR		DO NOT SCALE DRAWING	CONTRACT NO.	PARTS LIST		
BIOBOT10		NEVER ASSY USED ON APPLICATION	california data processors	BOARD SCHEMATIC, REGULATOR		
REV 03		REV 03	21080110	REV 03		

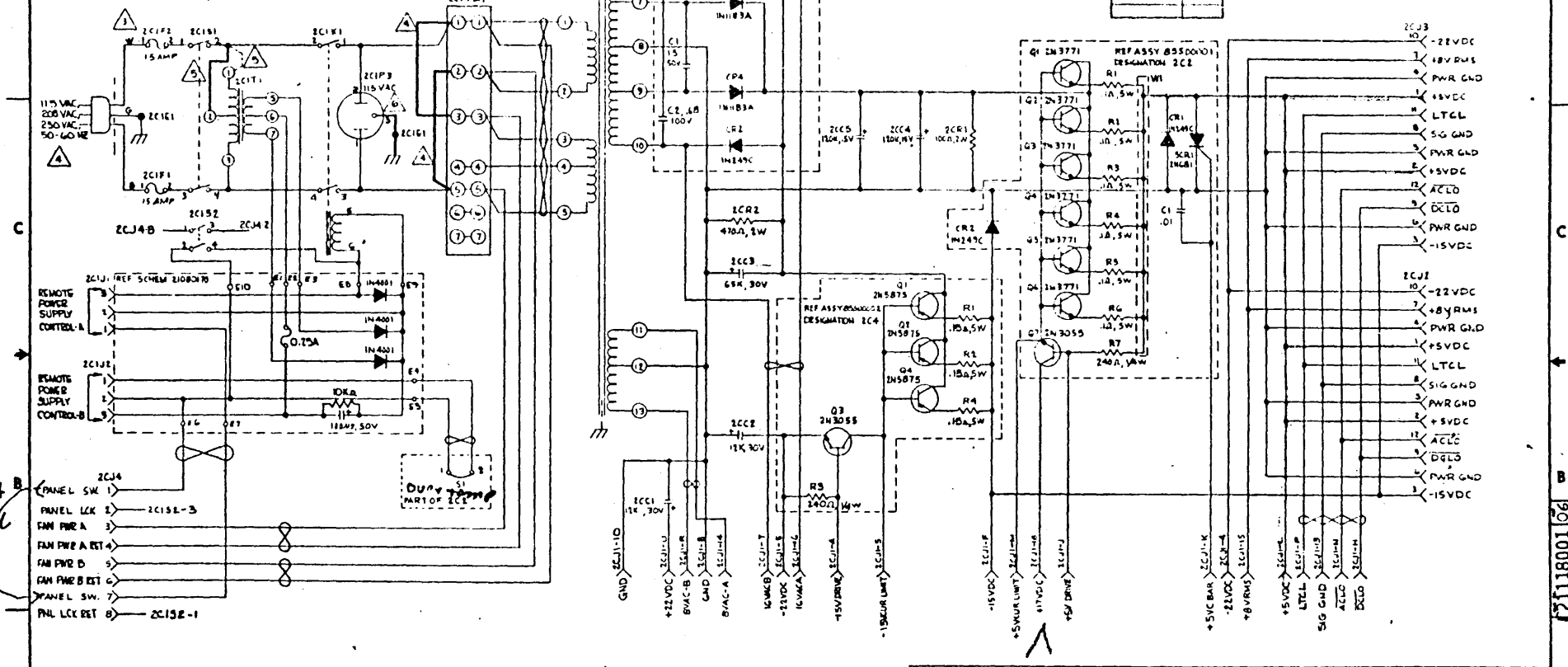
2108011003

8 7 6 5 4 3 2 1

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TABULATION BLOCK			
LINE VOLTAGE	AMPERE 1	AMPERE 2	ICIP3
115 VAC	(1) TO (3)	(3) TO (5)	USED
208 VAC	(1) TO (3)	(3) TO (5)	NOT USED
230 VAC	(1) TO (3)	(3) TO (5)	NOT USED

RELEASE STATUS				REVISIONS	
RELEASE LEVEL	DESCRIPTION	DATE	INITIALS	DESCRIPTION	APPROVED
EMERGENCY				REVISED PER CCO 0500022-01	
ENGINEERING				REVISED PER CCO 0500022-01	
PRODUCTION				REVISED PER CCO 0500022-01	



▲ POWER SUPPLY MAY BE OPERATED ON ONE OF THREE INPUT VOLTAGES. JUMPER WIRES ARE SHOWN FOR THE 115 VAC INPUTS.

▲ USE ZCIP2 IS NOT USED ON 115 VAC AND 230 VAC (EUROPEAN) VERSIONS.

2. FOR TEST SPECIFICATION SEE 224-3012.

1. FOR POWER SUPPLY ASSY'S SEE 05500001B-05500002L.

NOTES: UNLESS OTHERWISE SPECIFIED

▲ ZCIP3 USED IN 115V APPLICATION ONLY.

▲ TERMINAL ① USED IN 208-230V-230V APPLICATION ONLY.

▲ TERMINAL ② USED IN 115V APPLICATION ONLY.

PART ASSY NO & QTY PER ASSY		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION / MATERIAL		SPEC SOURCE		CAGE CODE		FIND NO	
PART ASSY REV LTR		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION / MATERIAL		SPEC SOURCE		CAGE CODE		FIND NO	
PART ASSY REV LTR		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION / MATERIAL		SPEC SOURCE		CAGE CODE		FIND NO	

california data processors

DWG TITLE: SCHEMATIC, POWER SUPPLY - 36 AMP

SIZE: CLEAR DRAWING

ENG NO: C21118001

SCALE: NONE

REV: 001

SHEET: 01

2118001

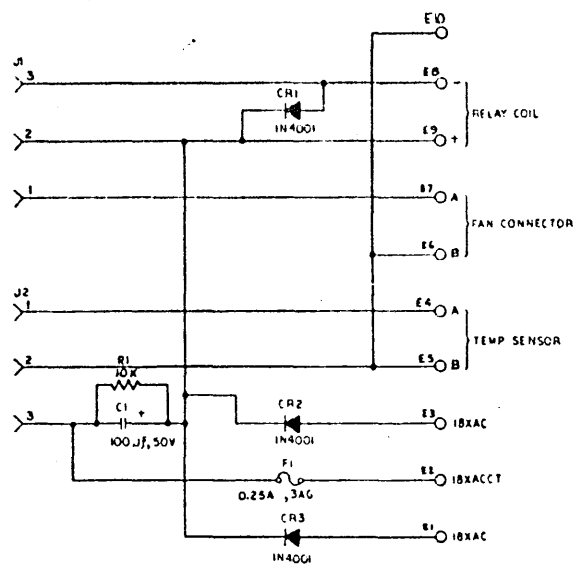
10081127

13-64-30-5V

27.0V

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RELEASE STATUS			REVISIONS		
RELEASE LEVEL	DATE	BY	DESCRIPTION	DATE	APPROVED
EXPERIMENTAL	1/27/72	[Signature]	REVISED CIRCUIT BOARD	1/27/72	[Signature]
ENGINEERING	1/27/72	[Signature]	REVISED CIRCUIT BOARD	1/27/72	[Signature]
PRODUCTION	1/27/72	[Signature]	REVISED CIRCUIT BOARD	1/27/72	[Signature]
	ATTACHED				
	ED NUMBER				
	DATE				



1. FOR ASSEMBLY SEE D1080170
 1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATION SEE FIG. 2.C.1
 NOTES: UNLESS OTHERWISE SPECIFIED

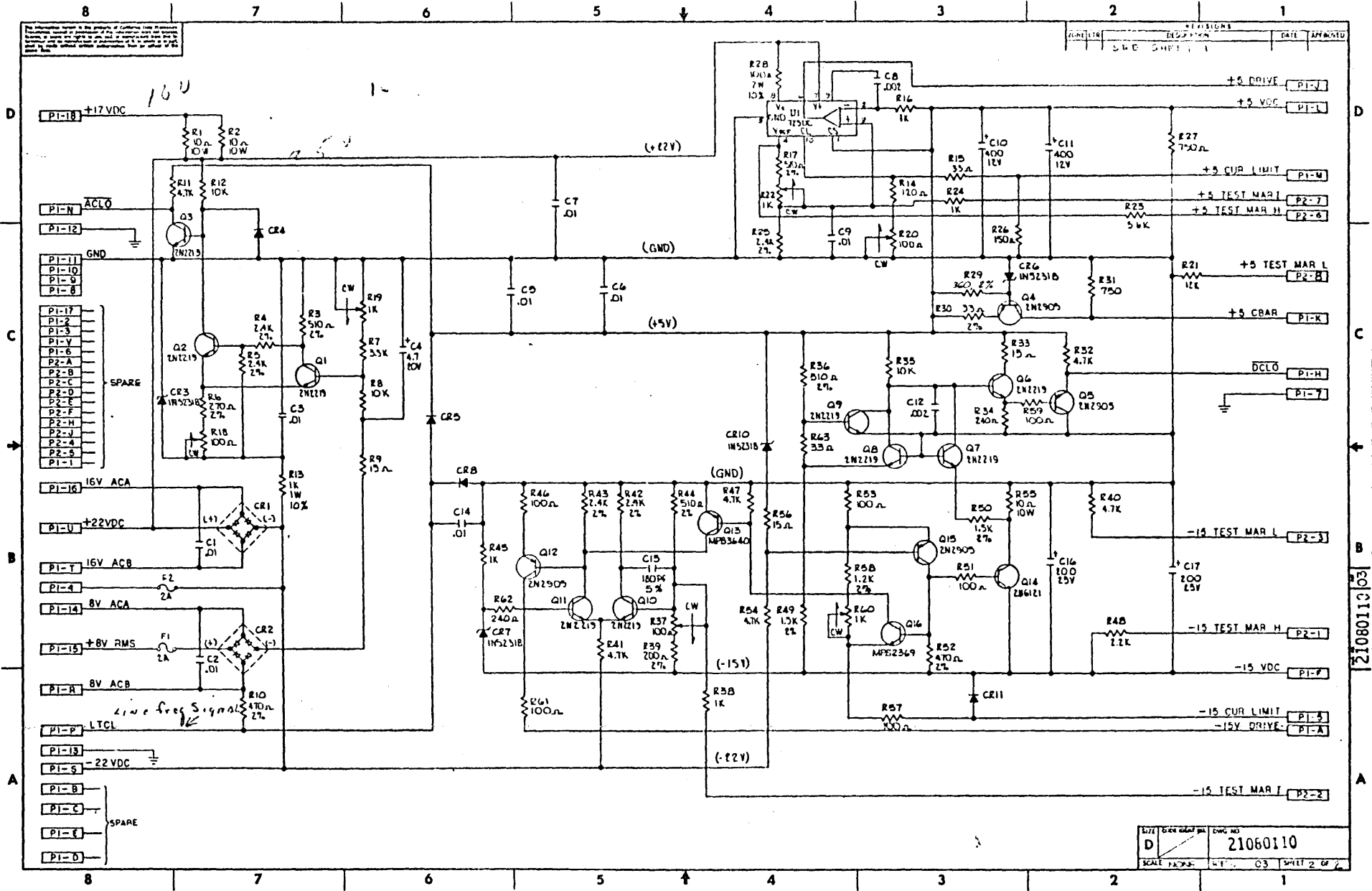
PART/ASSY NO. & QTY PER ASSY	NOTE: PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION / MATERIAL	SPEC SOURCE	CLASS. (CONT. NO.)	FIND NO.
PART/ASSY REV LTR	DC NOT SCALE DRAWING	PARTS LIST			
		CONTRACT NO.			
		DRAWN: [Signature]			
		CHECK: [Signature]			
		ENG: [Signature]			
		PROG. ENGR: [Signature]			
		TECH. DIR: [Signature]			
		PROD. MGR: [Signature]			
		QA: [Signature]			
		DATE: 1/27/72			
		SCALE: NONE			
		REV: 05			
		SHEET: 1 OF 1			

21080170 (05)

LTCL } $I_{H1} = 5.0 \pm .5 \text{ VDC}$
 } $I_{H0} = 0.0 \pm .5 \text{ VDC}$ } Page 2.5

DCLO +4.0 VDC min } Page 2.4
 ACLO +5.0 VDC

21060110



21060110 2 of 2

1010108012

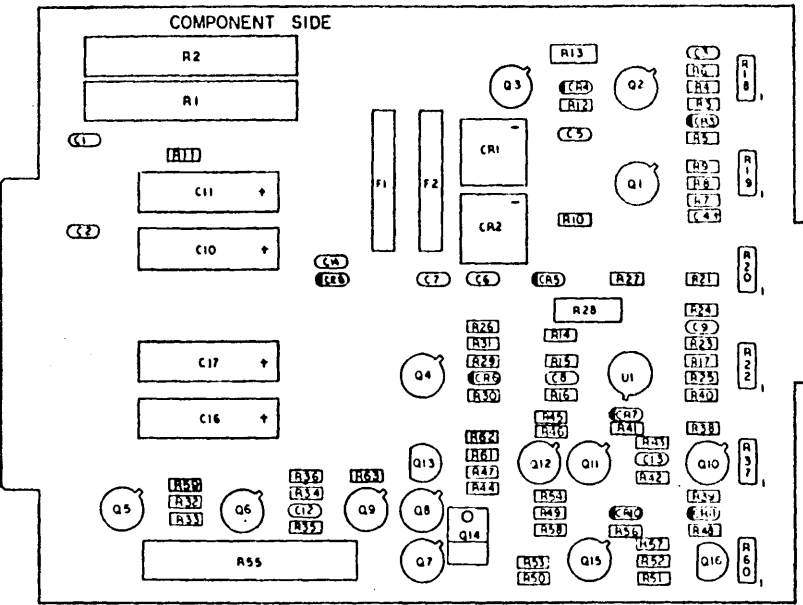
DATE	REV	BY	CHKD
D		21060110	
SCALE	1:1	DATE	03
			Sheet 2 of 2

8 7 6 5 4 3 2 1

RELEASE STATUS		DATE	REVISIONS	DATE	APPROVED
EXPERIMENTAL	DESIGNED		REVISED FOR DISCUSSIONS	2/24/75	
ENGINEERING	DESIGNED	1/1/75	REVISED PER ECO 21080110-01	2/24/75	
PRODUCTION	DESIGNED		REVISED PER ECO 21080110-01	2/24/75	
ATTACHED E.O. NUMBER		REWARD DATE			

CONNECTOR P1		
COMPONENT SIDE		SOLDER SIDE
+22 VDC	V18	+17 VDC
16VAC-B	U17	
-22 VDC	T16	16VAC-A
8VAC-B	S15	+8V RMS
LTCL	R14	8VAC-A
ACLO	P13	GND
CUR LIMIT	N12	GND
+5 VDC	M11	GND
+5 CBAR	L10	GND
+5 DRIVE	K9	GND
DCLO	J8	GND
-15 VDC	H7	GND
	F6	
	E5	-15 CUR LIMIT
	D4	-22 VDC
	C3	
	B2	
-15V DRIVE	A1	

CONNECTOR P2	
COMPONENT SIDE	SOLDER SIDE
J8	+5 MAR L
H7	+5 MAR I
F6	+5 MAR H
E5	
D4	
C3	-15 MAR L
B2	-15 MAR I
A1	-15 MAR H



COMPONENT LOCATION MAP

- ALL CAPACITORS ARE IN MICROFARADS AND 100V
- ALL DIODES ARE IN4606
- ALL RESISTORS ARE 1/4W, ±5%
- REFERENCE DESIGNATIONS SHOWN ARE PARTIAL FOR COMPLETE DESIGNATION PREFIX WITH 2 C
- FOR POWER SUPPLY SCHEMATIC, SEE 21110001.
- FOR POWER SUPPLY ASSEMBLY, SEE 00500000.
- FOR BOARD ASSEMBLY, SEE 01080110.

NOTES: UNLESS OTHERWISE SPECIFIED

PART ASSY NO & QTY PER ASSY		NOTE	PART OR IDENTIFYING NO.	FOR PARTS LIST SEE SHIT 2	SPEC SOURCE	CODE	FIND NO.
03							
PART ASSY REV LTR		DO NOT SCALE DRAWING	CONTRACT NO.	PARTS LIST			
REGESTIO		DRAWN BY: [Signature]	DATE: 2/21/75	California data processors			
NEXT ASSY USED ON		CHECKED BY: [Signature]	DATE: 2/21/75	DRAWN TITLE			
APPLICATION		TECH ENR: [Signature]	DATE: 2/21/75	BOARD SCHEMATIC, REGULATOR			
		PROV: [Signature]	DATE: 2/21/75	SIZE: D			
		Q.A.:		SCALE: NONE			
				REV: 03			
				SHEET 1 OF 2			

21080110103

A

8 7 6 5 4 3 2 1