

SECTION 5

SCHEMATIC DIAGRAMS

5.1 ASSEMBLY AND COMPONENT NUMBERS

Schematic components are shown in this section according to the following assembly numbers:

- A1 - C-722/C-962 Chassis (Part of Interconnect Board Schematic)
- A1 - C-722A/C-962A Chassis (Part of Interface Board Schematic)
- A1 - C-962S Chassis (Part of Interface Board Schematic)
- A2 - C-722/C-962 Interconnect Board
- A2 - C-722A/C-962A Interface Board
- A3 - C-722/C-962 Power Supply Board
- A3 - C-722A/C-962A Power Supply Board
- A4 - C-722/C-722A/C-962/C-962A Logic Board
- A5 - C-722/C-962 Display Board
- A5 - C-722A/C-962A Display Board

Parts are numbered according to the component assembly number within the C-722/C-722A/C-962/C-962A. For example, R1 on the Display Board is referred to as A5R1, while R1 on the Logic Board is referred to as A4R1.

NOTE: On all SUMMARY OF SCHEMATIC CHANGES sheets, the MCN refers to a four or five digit number stamped on either the wiring side of the chassis, the module chassis housing, or the printed circuit board, as applicable.

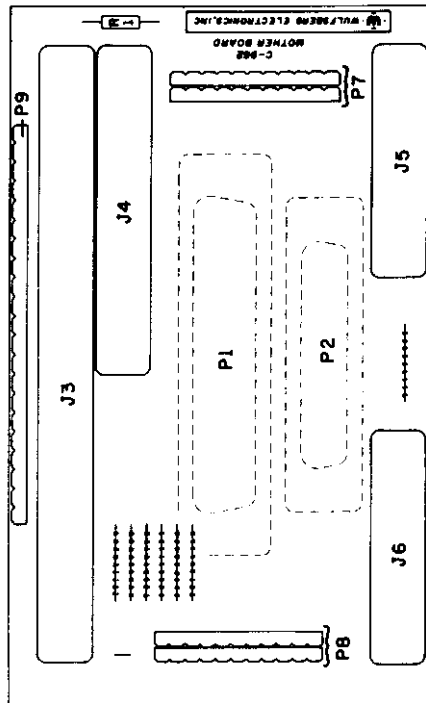
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SUMMARY OF SCHEMATIC CHANGES

C-722/C-962 INTERCONNECT BOARD (A2)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Changes for addition of C-962A; add wire from J11-1' to J15-4'.	N/A	--	N/A
C	No schematic changes applicable.	N/A	--	N/A
D	Schematic cleanup, no changes applicable.	N/A	--	0101

C-722/C-722A/C-962/C-962A/C-962S



WULFSBERG ELECTRONICS, INC.	
SCALE	TOLERANCE UNLESS NOTED
2:1	.0125" FRACTIONAL 1/16" ANGLES 45°
TITLE	
C-962 MOTHER BOARD	
COMPONENT LOCATOR	
DESIGN	DATE
JEF	1 01 1
148-0164-01	

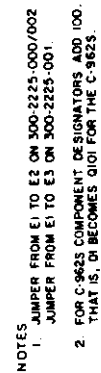
C-722/C-962 INTERCONNECT BOARD (A2) COMPONENT LOCATOR
 FIGURE 5.1-2

C-722/C-722A/C-962/C-962A/C-962S

SUMMARY OF SCHEMATIC CHANGES

C-722A/C-962A/C-962S INTERCONNECT BOARD (A2)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Schematic cleanup, no changes applicable.	N/A	--	0101
C	Originate 14V lighting versions of C-722A/C-962A; no schematic changes applicable.	N/A	--	N/A
D	No schematic changes applicable.	N/A	1	0551
E	Add sheet 2 to schematic for C-962S (DVP).	N/A	--	N/A



 WULFSBERG ELECTRONICS, INC. 1000 W. 10th St. • Dept. 10 • Portland, Oregon 97204 • Phone (503) 241-1111	
Telephone Numbers: (503) 241-1111 Telex: 2005 Angport 1/24	
SCALE	2:1
PART NO. 94-81 COMPONENT LOCATOR C-94-* C-722A/C-982S INTERFERENCE	
ORDER NO. 94-81 QUANTITY 1 ORDER DATE 12/17/68 ORDER BY WULFSBERG ORDER FOR WULFSBERG	ORDER NO. 148-0303 QUANTITY 1 ORDER DATE 1/1/69 ORDER BY WULFSBERG ORDER FOR WULFSBERG

C-722A/C-962A/C-962S INTERFACE BOARD (A2) COMPONENT LOCATOR
FIGURE 5.1-4

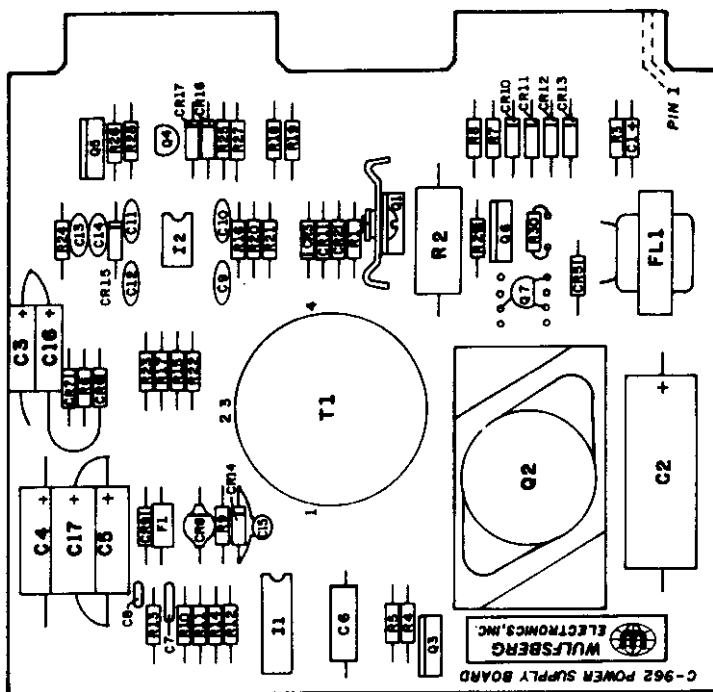
C-722/C-722A/C-962/C-962A/C-962S

SUMMARY OF SCHEMATIC CHANGES

C-722/C-962 POWER SUPPLY (A3)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Stop thermal runaway in relay coil: Delete: CR4 - 1N4002 Add: CR4 - 1N4733A Zener	N/A	--	0156
C	Prevent R12 from overheating when fuse blows: Move connection of R12/R15 from C4 side of F1 to T1 side. Delete: F1 - 1.5 Amp Add: F1 - 3.0 Amp	N/A	--	0156
D	Proper operation of DIMMER DISABLE function: Delete: R20 - 1K ohm 1/4W Add: R20 - 100 ohm 1/4W R27, R28 - 1K ohm 1/4W	N/A	1	0170
E	No schematic changes applicable.	N/A	--	N/A
F	Prevent false switching: Add: C15 - 220PF Disc-cer	N/A	--	1198
G	Remove relays, make following changes: Delete: CR4 - 1N4733A Zener R1 - 47 ohm 1/4W RY1 - Relay Add: Q6 - TIP-41 Q7 - 2N5447 R1 - 100 ohm 1/4W R29, R30 - 1K ohm 1/4W	N/A	--	1168
H	Secondary voltage regulation improvements: Delete: C3, C16 - 22UF Tant F1 - 3.0 Amp Add: C3, C16, - 4.7UF Tant C17 - 100UF Tant F1 - 1.5 Amp	N/A	--	1298

C-722/C-722A/C-962/C-962A/C-962S



WULFSBERG ELECTRONICS, INC.			
SCALE	2:1	VENTILATION UNLESS NOTED	FRACCTIONS 21/64
		21/64 1/8 1/4 3/8 1/2	1/2 3/4 1 1 1/2
C-962 POWER SUPPLY COMPONENT LOCATOR			
REV	1	DATE	1-1-71
REV	2	DATE	1-1-71
REV	3	DATE	1-1-71
REV	4	DATE	1-1-71
REV	5	DATE	1-1-71
REV	6	DATE	1-1-71
REV	7	DATE	1-1-71
REV	8	DATE	1-1-71
REV	9	DATE	1-1-71
REV	10	DATE	1-1-71
REV	11	DATE	1-1-71
REV	12	DATE	1-1-71
REV	13	DATE	1-1-71
REV	14	DATE	1-1-71
REV	15	DATE	1-1-71
REV	16	DATE	1-1-71
REV	17	DATE	1-1-71
REV	18	DATE	1-1-71
REV	19	DATE	1-1-71
REV	20	DATE	1-1-71
REV	21	DATE	1-1-71
REV	22	DATE	1-1-71
REV	23	DATE	1-1-71
REV	24	DATE	1-1-71
REV	25	DATE	1-1-71
REV	26	DATE	1-1-71
REV	27	DATE	1-1-71
REV	28	DATE	1-1-71
REV	29	DATE	1-1-71
REV	30	DATE	1-1-71
REV	31	DATE	1-1-71
REV	32	DATE	1-1-71
REV	33	DATE	1-1-71
REV	34	DATE	1-1-71
REV	35	DATE	1-1-71
REV	36	DATE	1-1-71
REV	37	DATE	1-1-71
REV	38	DATE	1-1-71
REV	39	DATE	1-1-71
REV	40	DATE	1-1-71
REV	41	DATE	1-1-71
REV	42	DATE	1-1-71
REV	43	DATE	1-1-71
REV	44	DATE	1-1-71
REV	45	DATE	1-1-71
REV	46	DATE	1-1-71
REV	47	DATE	1-1-71
REV	48	DATE	1-1-71
REV	49	DATE	1-1-71
REV	50	DATE	1-1-71
REV	51	DATE	1-1-71
REV	52	DATE	1-1-71
REV	53	DATE	1-1-71
REV	54	DATE	1-1-71
REV	55	DATE	1-1-71
REV	56	DATE	1-1-71
REV	57	DATE	1-1-71
REV	58	DATE	1-1-71
REV	59	DATE	1-1-71
REV	60	DATE	1-1-71
REV	61	DATE	1-1-71
REV	62	DATE	1-1-71
REV	63	DATE	1-1-71
REV	64	DATE	1-1-71
REV	65	DATE	1-1-71
REV	66	DATE	1-1-71
REV	67	DATE	1-1-71
REV	68	DATE	1-1-71
REV	69	DATE	1-1-71
REV	70	DATE	1-1-71
REV	71	DATE	1-1-71
REV	72	DATE	1-1-71
REV	73	DATE	1-1-71
REV	74	DATE	1-1-71
REV	75	DATE	1-1-71
REV	76	DATE	1-1-71
REV	77	DATE	1-1-71
REV	78	DATE	1-1-71
REV	79	DATE	1-1-71
REV	80	DATE	1-1-71
REV	81	DATE	1-1-71
REV	82	DATE	1-1-71
REV	83	DATE	1-1-71
REV	84	DATE	1-1-71
REV	85	DATE	1-1-71
REV	86	DATE	1-1-71
REV	87	DATE	1-1-71
REV	88	DATE	1-1-71
REV	89	DATE	1-1-71
REV	90	DATE	1-1-71
REV	91	DATE	1-1-71
REV	92	DATE	1-1-71
REV	93	DATE	1-1-71
REV	94	DATE	1-1-71
REV	95	DATE	1-1-71
REV	96	DATE	1-1-71
REV	97	DATE	1-1-71
REV	98	DATE	1-1-71
REV	99	DATE	1-1-71
REV	100	DATE	1-1-71

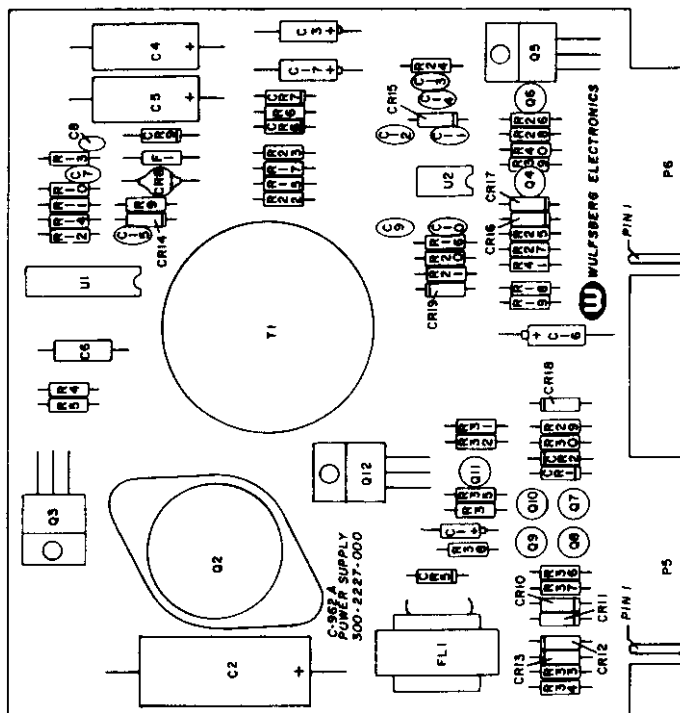
C-722/C-962 POWER SUPPLY BOARD (A3) COMPONENT LOCATOR
FIGURE 5.1-7

C-722/C-722A/C-962/C-962A/C-962S

SUMMARY OF SCHEMATIC CHANGES

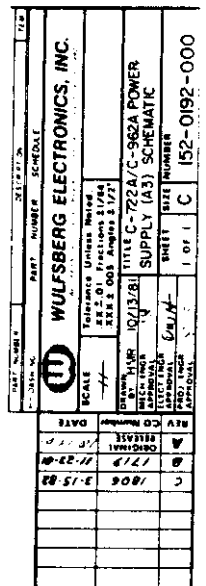
C-722A/C-962A/C-962S POWER SUPPLY (A3)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Schematic cleanup only, no changes applicable.	N/A	--	N/A
C	Reduction of variations in dimming circuit: Delete: R17 - 10K ohm 1/4W R23 - 5.6K ohm 1/4W Add: R17 - 10.0K ohm 1% R23 - 5.62K ohm 1%	N/A	--	0101



WULFSBERG ELECTRONICS, INC.		Tolerance Unless Noted		A3 2.01 Fractions 2 1/8		DATE 2/78	
SCALE	2 1	2 1	2 1	2 1	2 1	2 1	2 1
DESIGN	JEF 9-8-81	DATE	2/78	DATE	2/78	DATE	2/78
PROJECT	LOCATOR	PROJECT	LOCATOR	PROJECT	LOCATOR	PROJECT	LOCATOR
REVISION	1	REVISION	1	REVISION	1	REVISION	1
REV	1/78	REV	1/78	REV	1/78	REV	1/78
DATE	1/78	DATE	1/78	DATE	1/78	DATE	1/78
BY	101	BY	101	BY	101	BY	101
CHECKED	101	CHECKED	101	CHECKED	101	CHECKED	101
APPROVED	101	APPROVED	101	APPROVED	101	APPROVED	101
148-0302-000		148-0302-000		148-0302-000		148-0302-000	

C-722A/C-962A POWER SUPPLY BOARD (A3) COMPONENT LOCATOR
FIGURE 5.1-9



5-21
REV.C

C-722/C-722A/C-962/C-962A/C-962S

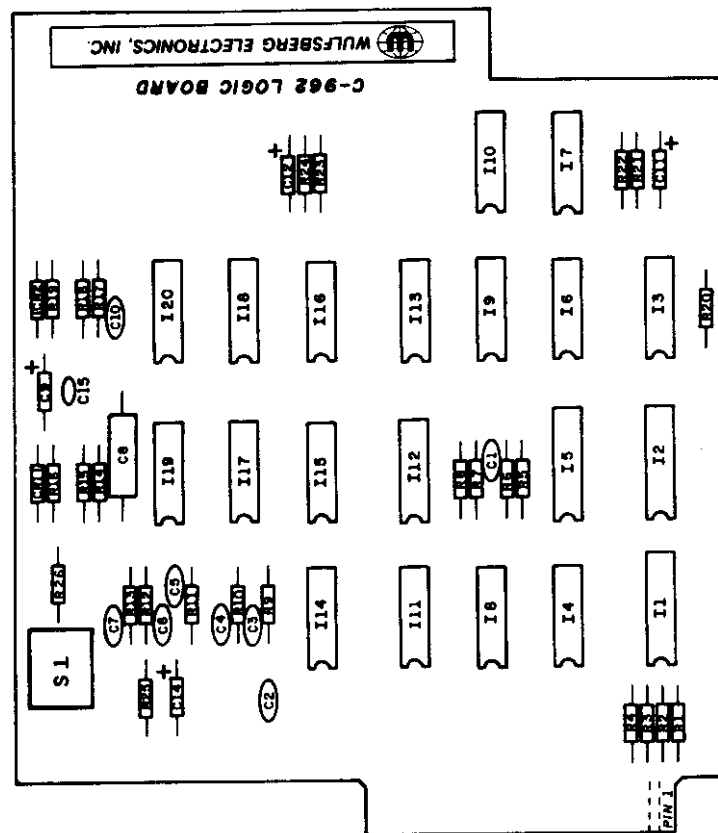
SUMMARY OF SCHEMATIC CHANGES

LOGIC BOARD (A4)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	-100
B	Prevent improper operation during load cycle: Delete: C5 - 2200PF Disc-cer Add: C5 - 0.1UF Disc-cer	N/A	--	0438
C	No schematic changes applicable.	N/A	--	N/A
D	Add ON/OFF feature to thumbwheel switches: Delete: S1 - 2 position switch Add: R26 - 10K ohm 1/4W S1 - 4 position switch	N/A	1	0563
E	No schematic changes applicable.	N/A	--	N/A
F	Fix PTT lock-out: Add: C15 - 0.01UF Mono-cer	N/A	--	1607 1748
G	No schematic changes applicable.	N/A	2	2040

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C-722/C-722A/C-962/C-962A/C-962S



WULFSBERG ELECTRONICS, INC.		C-962		LOGIC BOARD-COMPONENT LOCATOR	
REV	DATE	REV	DATE	REV	DATE
1	6-4-79	1	6-4-79	1	6-4-79
2	7-25-80	2	7-25-80	2	7-25-80
3	12-12-82	3	12-12-82	3	12-12-82
4	12-12-82	4	12-12-82	4	12-12-82
5	12-12-82	5	12-12-82	5	12-12-82
6	12-12-82	6	12-12-82	6	12-12-82
7	12-12-82	7	12-12-82	7	12-12-82
8	12-12-82	8	12-12-82	8	12-12-82
9	12-12-82	9	12-12-82	9	12-12-82
10	12-12-82	10	12-12-82	10	12-12-82
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12	12-12-82	12	12-12-82	12	12-12-82
13	12-12-82	13	12-12-82	13	12-12-82
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93	12-12-82	93	12-12-82	93	12-12-82
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97	12-12-82	97	12-12-82	97	12-12-82
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100	12-12-82	100	12-12-82	100	12-12-82

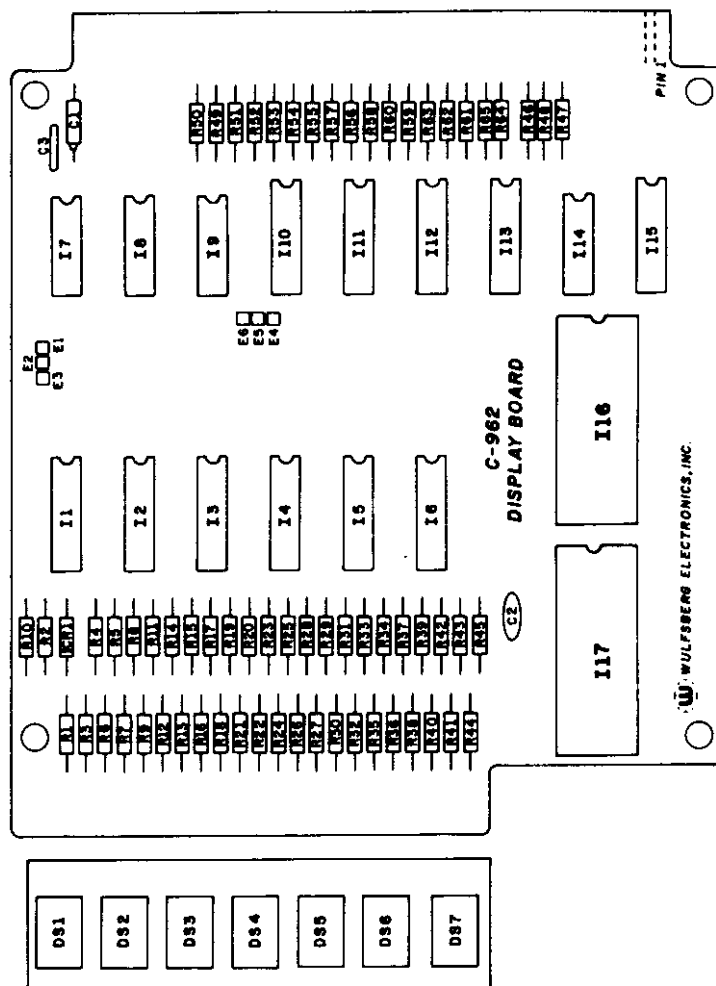
C-722/C-722A/C-962/C-962A/C-962S LOGIC BOARD (A4) COMPONENT LOCATOR
FIGURE 5.1-11

C-722/C-722A/C-962/C-962A/C-962S

SUMMARY OF SCHEMATIC CHANGES

C-722/C-962 DISPLAY BOARD (A5)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	For use with C-722/C-722A or C-962/C-962A: Add: E1 through E6 - Bifurcated terminals Notes applying to these terminals	N/A	--	N/A
C	No schematic changes applicable.	N/A	--	N/A
D	No schematic changes applicable.	N/A	--	N/A
E	Correct display intensity problems: Delete: R1 through R45 - 68 ohm 1/4W Add: R1 through R45 - 68.1 ohm 1%	N/A	--	1236

[illegible]

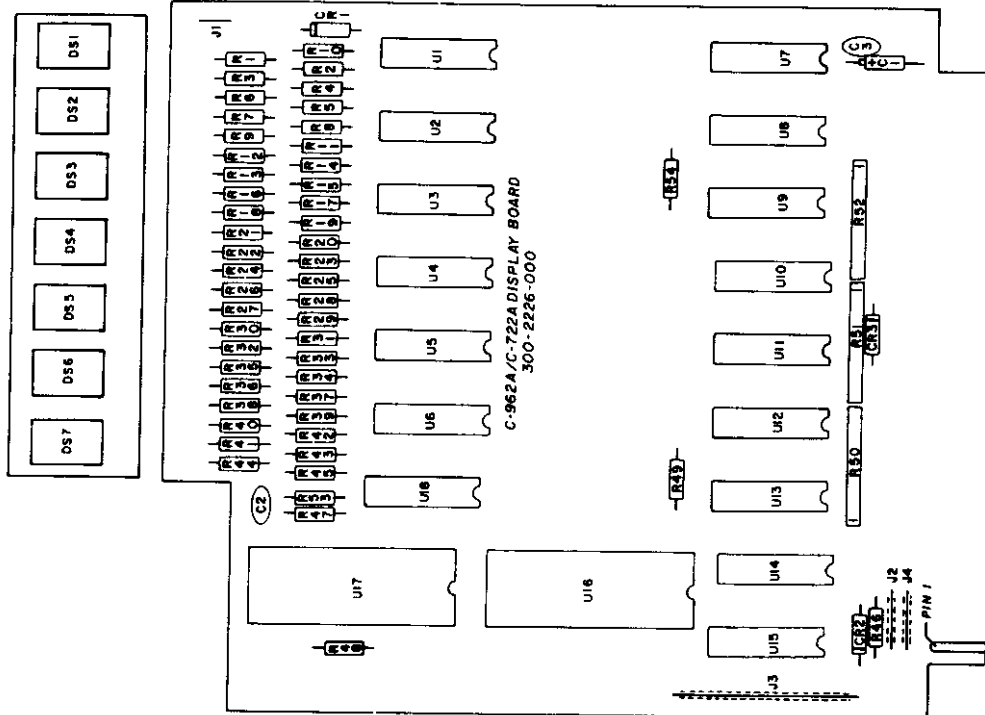
C-722/C-962 DISPLAY BOARD (A5) COMPONENT LOCATOR
FIGURE 5.1-13

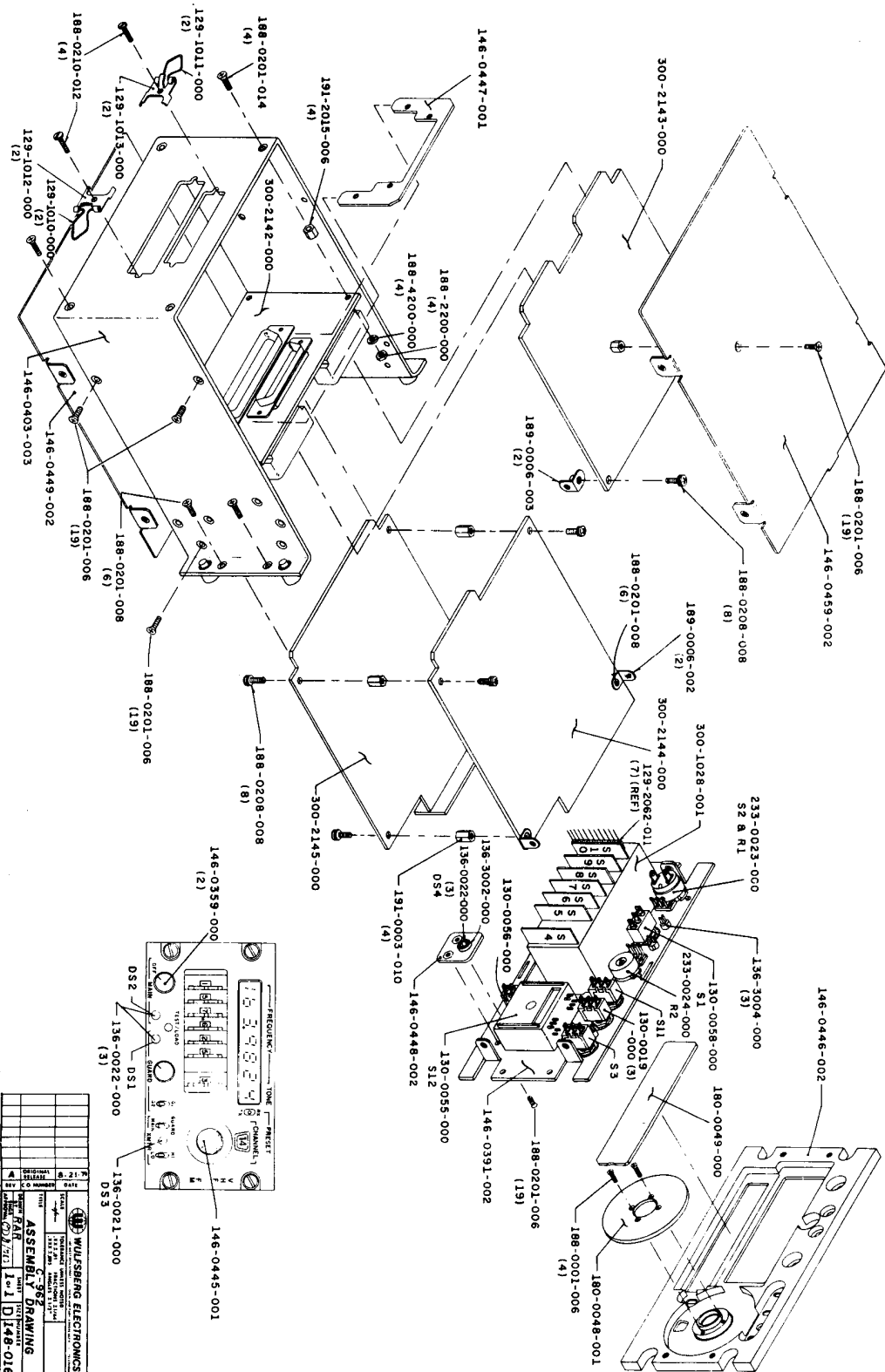
C-722/C-722A/C-962/C-962A/C-962S

SUMMARY OF SCHEMATIC CHANGES

C-722A/C-962A/C-962S DISPLAY BOARD (A5)

SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Fix manual tone during Guard XMTR: Add: R49 - 47K ohm 1/4W R54 - 4.7K ohm 1/4W	N/A	1	0539
C	Schematic cleanup - correct values of R1 through R45: Delete: R1 through R45 - 68 ohm 1/4W Add: R1 through R45 - 68.1 ohm 1%	N/A	--	N/A
D	Correct value of R49: Delete: R49 - 10K ohm 1/4W Add: R49 - 47K ohm 1/4W	N/A	--	N/A

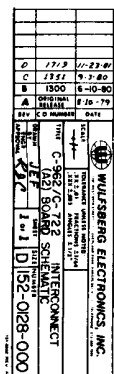
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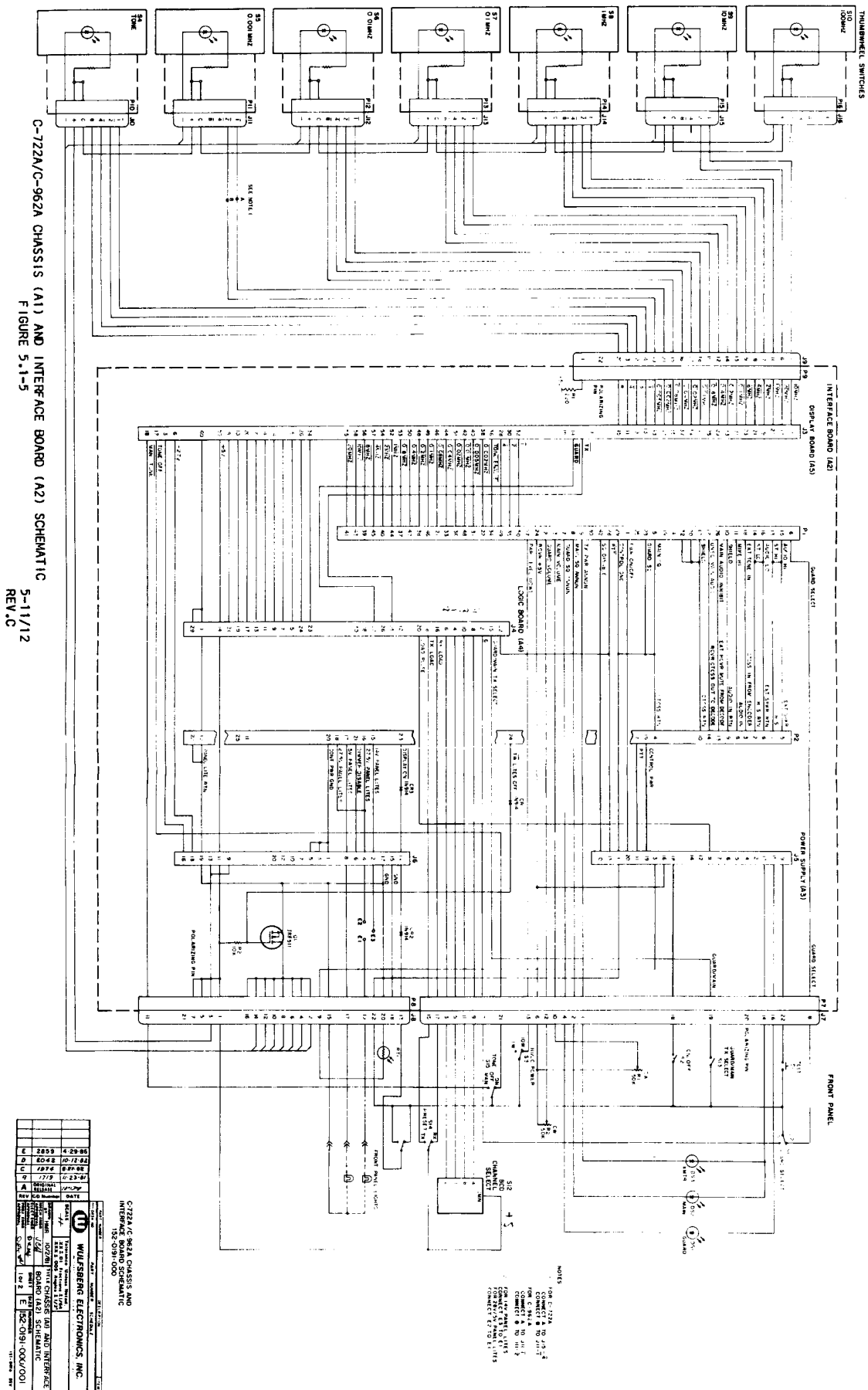


C-722/C-962 FINAL ASSEMBLY (A1)
 FIGURE 5.1-1

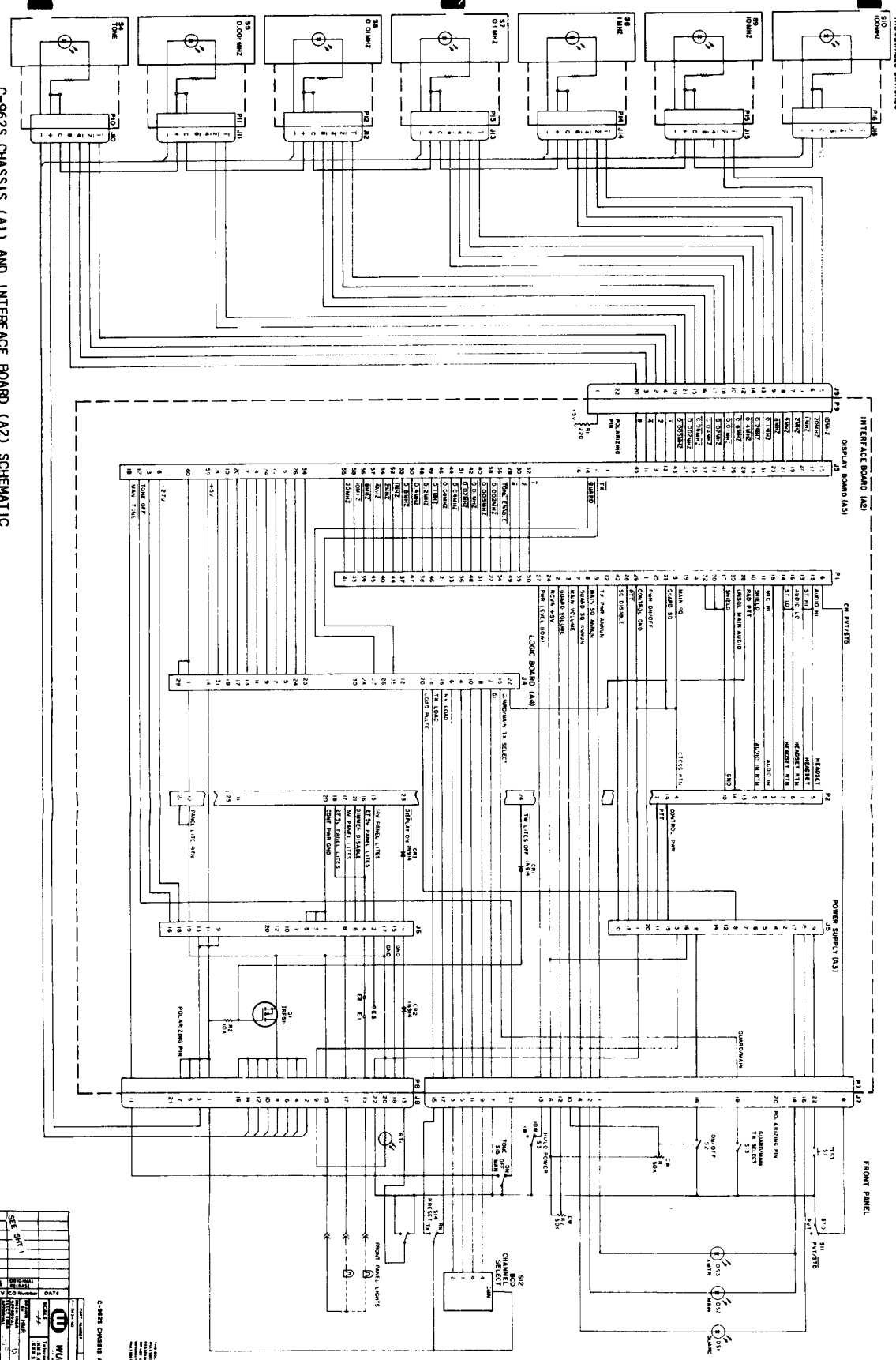
5-3/4
 REV.C

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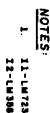
5-7/8
REV.C



C-962S CHASSIS (A1) AND INTERFACE BOARD (A2) SCHEMATIC
 FIGURE 5.1-6
 5-13/14
 REV.C



C-962S CHASSIS AND INTERFACE BOARD SCHEMATIC	
19-081-001	
WULFSBERG ELECTRONICS, INC.	
1000 W. 10th Street, Suite 100, Lincoln, NE 68502	
TEL: (402) 441-1111 FAX: (402) 441-1112	
E-MAIL: sales@wulfsberg.com	
WWW: www.wulfsberg.com	
REV. C	
DATE: 10-09-00	
BY: [Signature]	
CHECKED: [Signature]	
APPROVED: [Signature]	
10-09-00	



5-17/18
REV.C

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P	1686	3-18-65
F	1559	7-16-65
E	1558	5-29-65
D	1062	11-2-79
C	1055	10-9-79
B	1052	10-7-79
A	1051	10-7-79
RELEASE		8-10-79
REV. C 0 NUMBER		8-10-79

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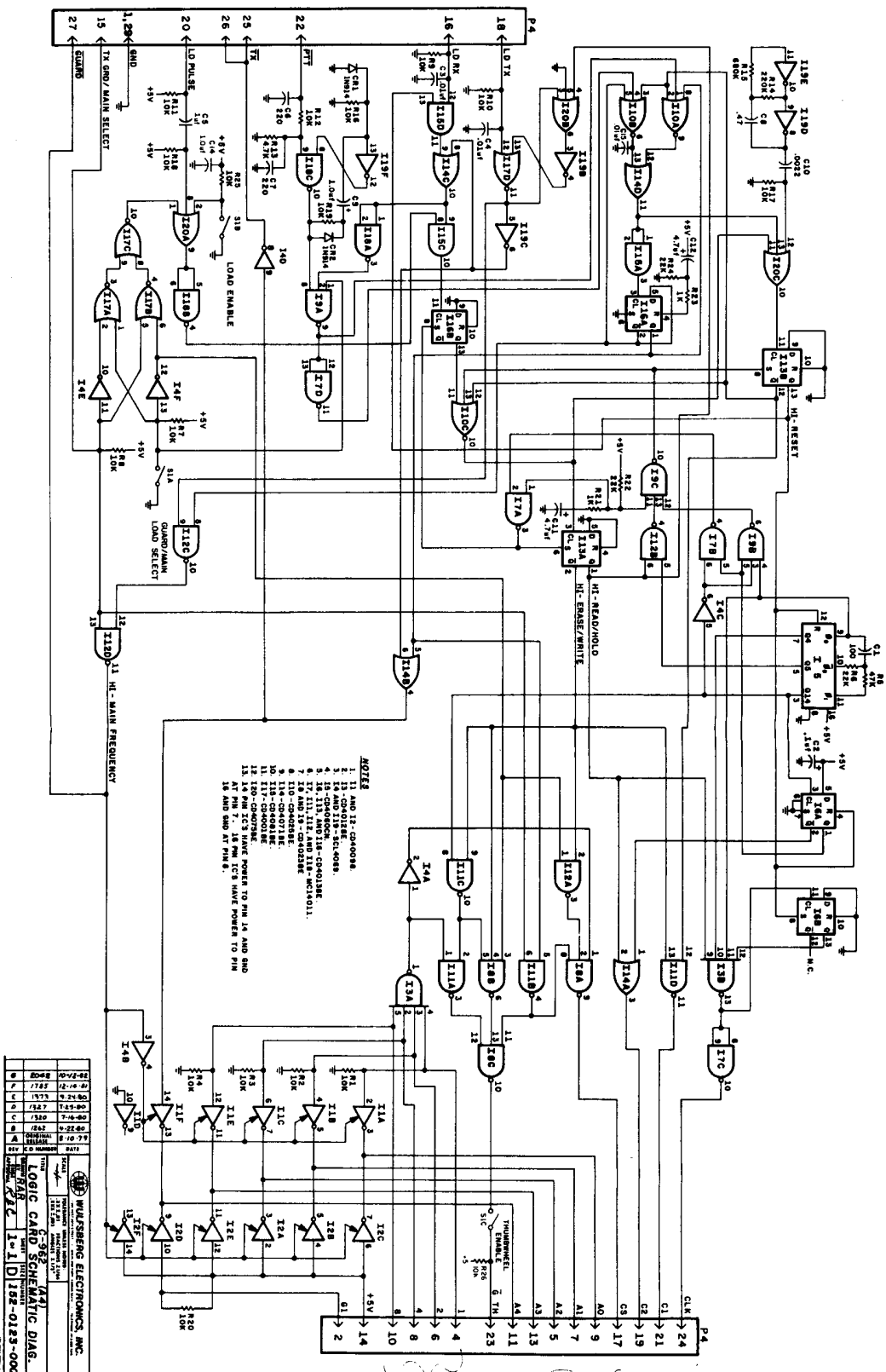
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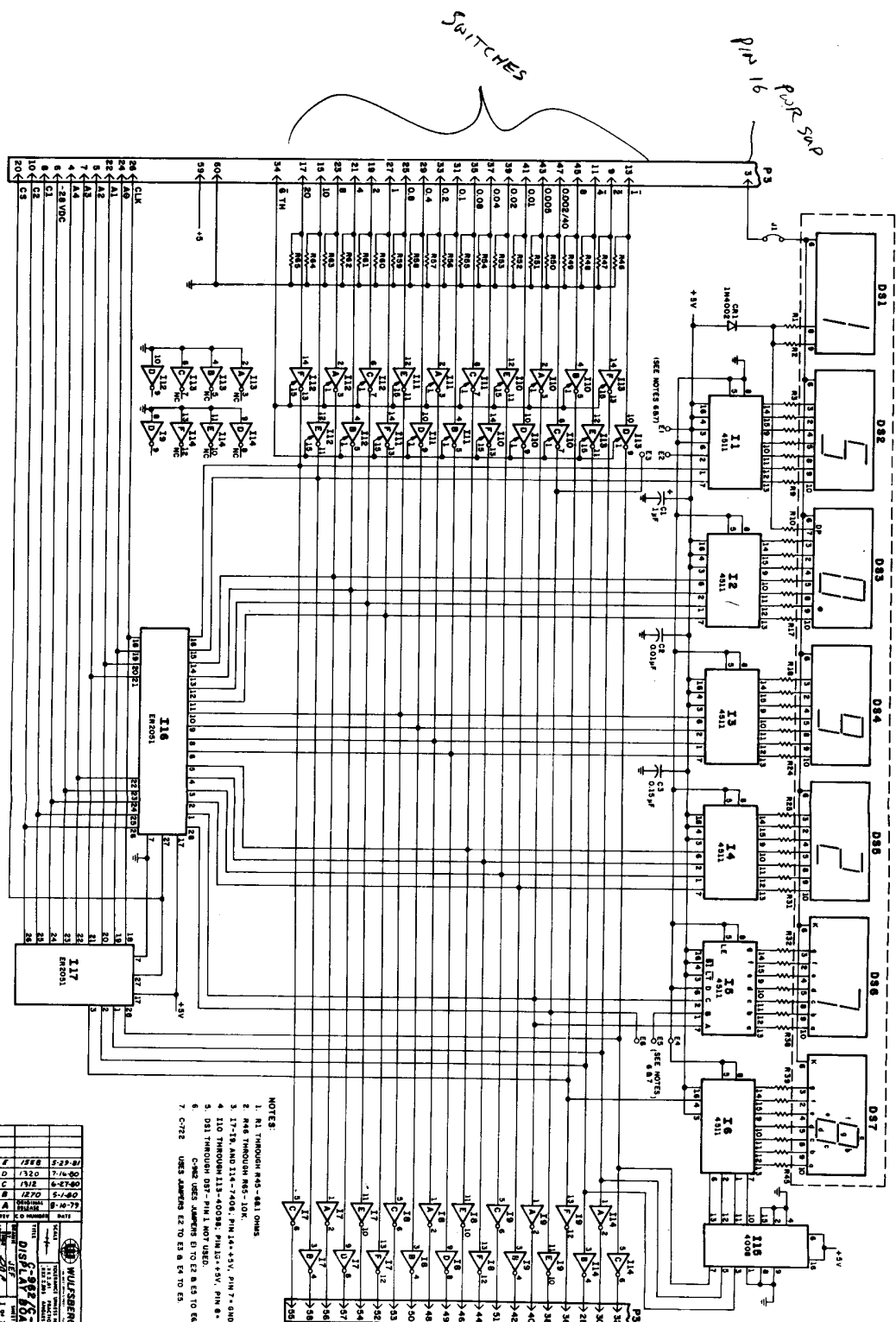
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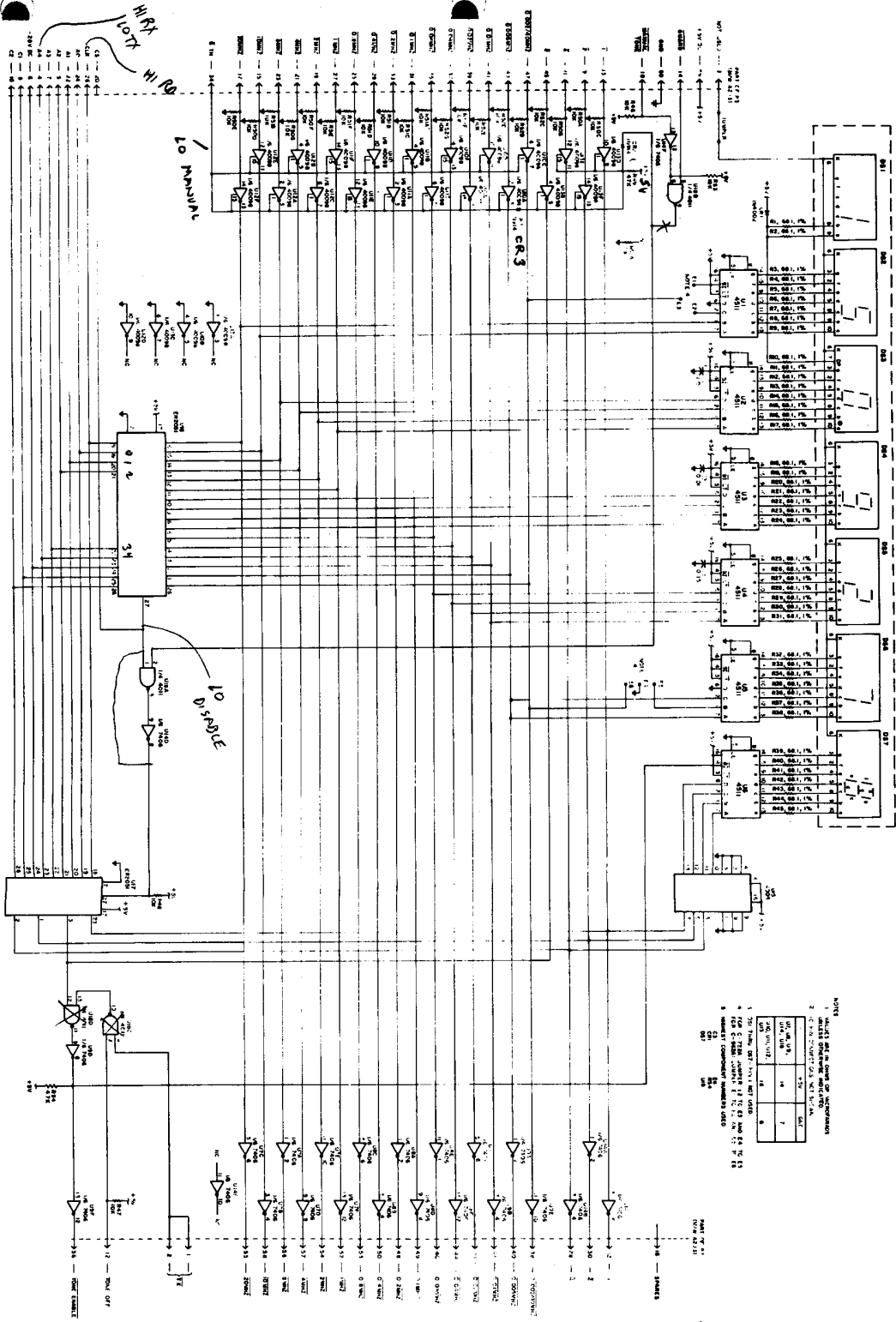
C-722/C-722N/C-962/C-962N/C-962S LOGIC BOARD (A4) SCHEMATIC
FIGURE 5.1-12
5-25/26
REV.C



C-722/C-962 DISPLAY BOARD (AS) SCHEMATIC
FIGURE 5.1-14

5-29/30
REV.C

WULFSBERG ELECTRONICS, INC.			
DATE	11/11/71	BY	WULFSBERG
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REV.	2	DATE	11/11/71
REV.	3	DATE	11/11/71
REV.	4	DATE	11/11/71
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REV.	7	DATE	11/11/71
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REV.	9	DATE	11/11/71
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REV.	12	DATE	11/11/71
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REV.	14	DATE	11/11/71
REV.	15	DATE	11/11/71
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REV.	100	DATE	11/11/71



C-7722A/C-962A/C-962S DISPLAY BOARD (A5) SCHEMATIC
FIGURE 5.1-16
5-33/34
REV.C

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