

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.

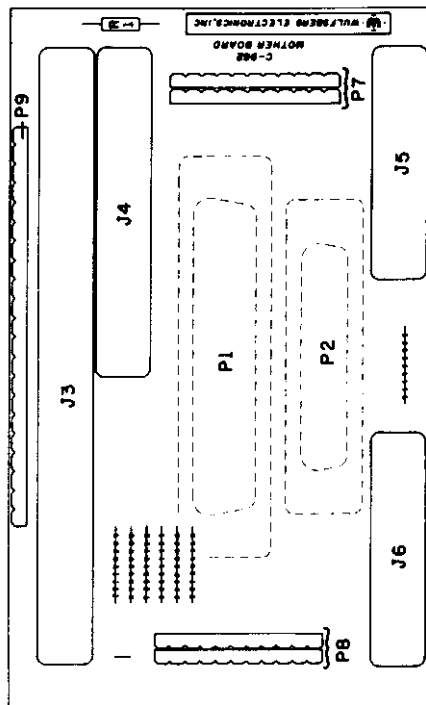
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SUMMARY OF SCHEMATIC CHANGES

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	FRACTIONAL 1/16 DECIMAL .001
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

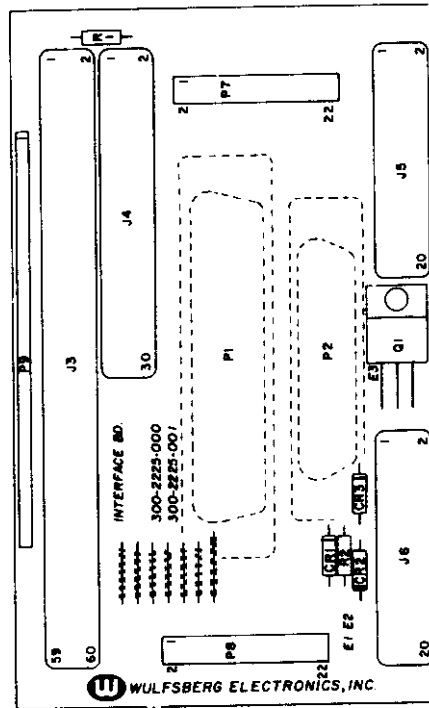
C-722/C-722A/C-962/C-962A/C-962S

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

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



NOTES
1. JUMPER FROM E1 TO E2 ON 300-2225-000/002
JUMPER FROM E1 TO E3 ON 300-2225-001.
2. FOR C-962S COMPONENT DESIGNATORS ADD 100.
THAT IS, Q1 BECOMES Q101 FOR THE C-962S.

WULFSBERG ELECTRONICS, INC.			
SCALE	2:1	DESIGN	3/1/64
REVISION	1	DATE	3/1/64
REVISION	2	DATE	3/1/64
REVISION	3	DATE	3/1/64
REVISION	4	DATE	3/1/64
REVISION	5	DATE	3/1/64
REVISION	6	DATE	3/1/64
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REVISION	10	DATE	3/1/64
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REVISION	100	DATE	3/1/64

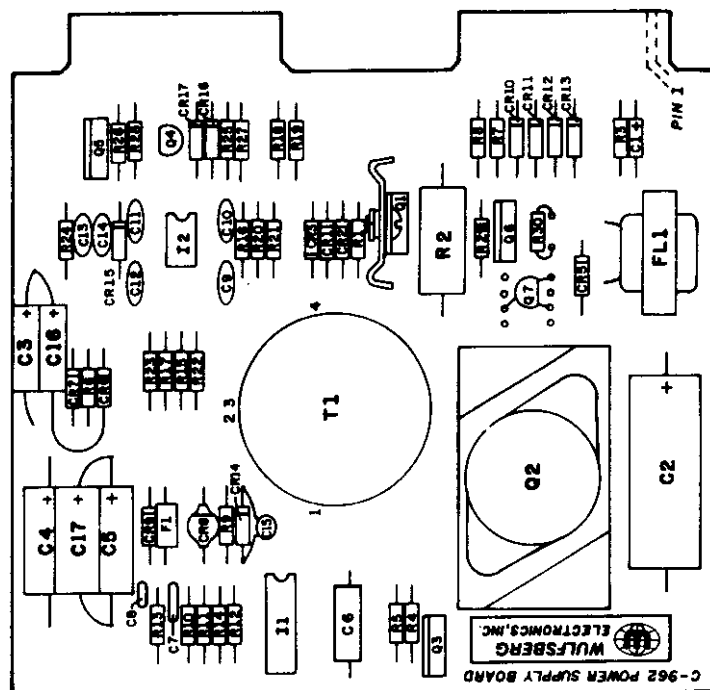
C-722A/C-962A/C-962S INTERFACE BOARD (A2) COMPONENT LOCATOR
FIGURE 5.1-4

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

[illegible]

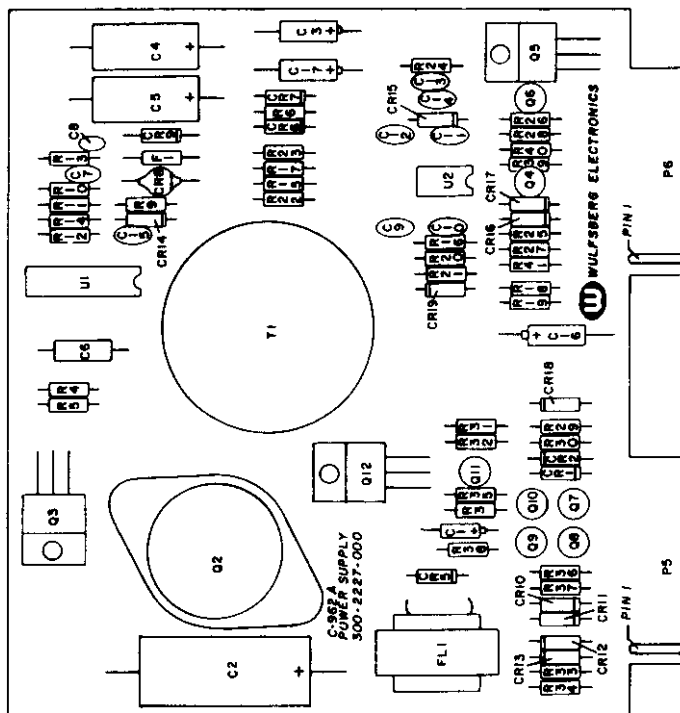
C-722/C-962 POWER SUPPLY BOARD (A3) COMPONENT LOCATOR
FIGURE 5.1-7

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

SUMMARY OF SCHEMATIC CHANGES

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

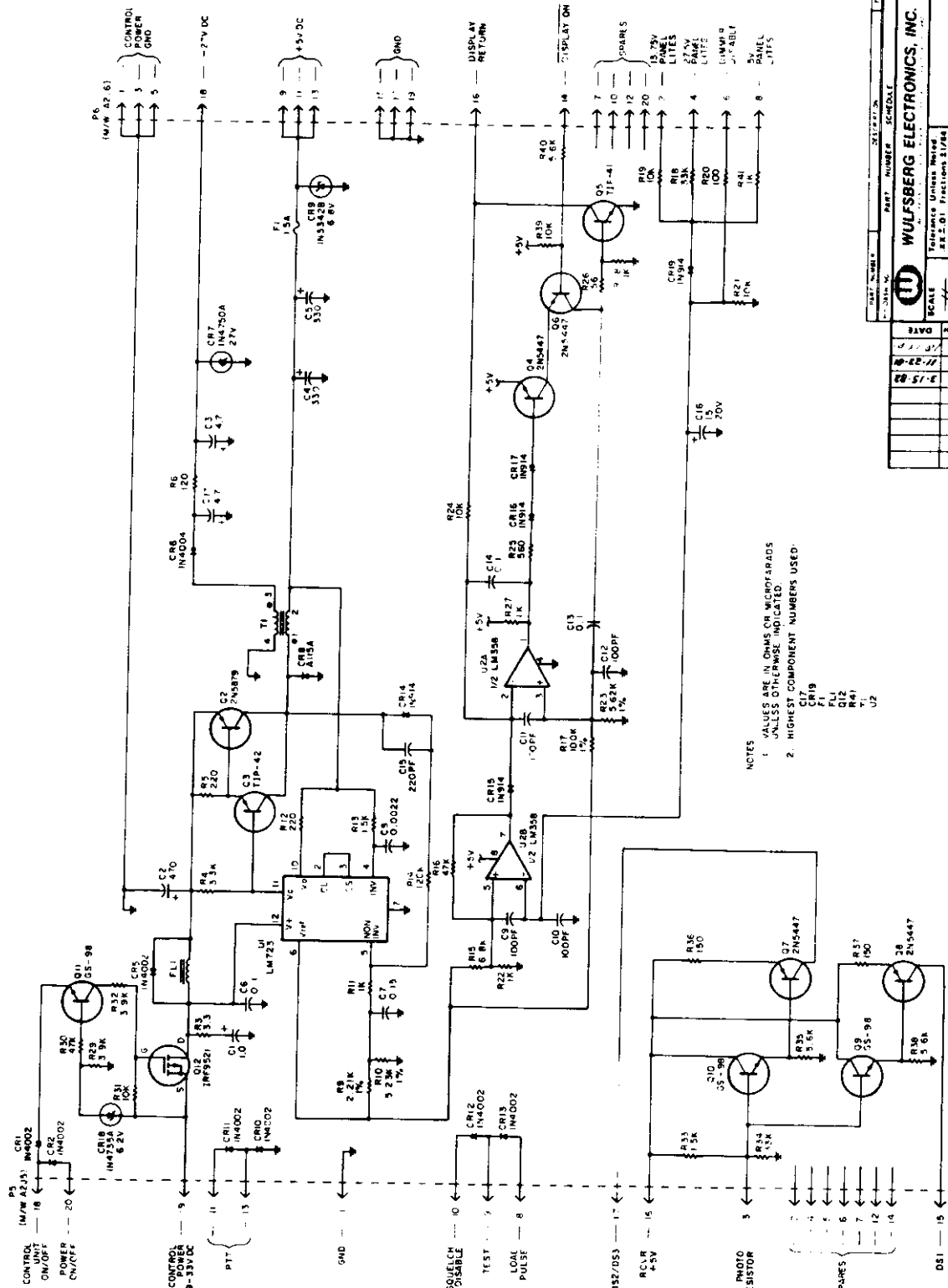
SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Schematic cleanup only, no changes applicable.	N/A	--	N/A
C	Reduction of variations in dimming circuit: Delete: R17 - 10K ohm 1/4W R23 - 5.6K ohm 1/4W Add: R17 - 10.0K ohm 1% R23 - 5.62K ohm 1%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



WULFSBERG ELECTRONICS, INC.		Tolerance Unless Noted		A3 2.01 Fractions 2 1/64		DATE 2/72	
SCALE	2 1	2 1	2 1	2 1	2 1	2 1	2 1
DESIGN	JEF 9-8-81	TITLE COMP LOCATOR C-722A /		C-962A POWER SUPPLY BD		SHEET 1 OF 1	
DESIGNER	JEF	CHECKED		DATE		10/1	
APPROVED	JEF	DATE		10/1		148-0302-000	

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

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



PART NUMBER		SCHEDULE	
WULFSBERG ELECTRONICS, INC.		2011-2-20	
SCALE		2011-2-20	
DRAWN		2011-2-20	
CHECKED		2011-2-20	
APPROVED		2011-2-20	
TITLE		C-722A/C-962A POWER SUPPLY (A3) SCHEMATIC	
SHEET NUMBER		1 OF 1	
C		152-0192-000	

NOTES
1. VALUES ARE IN OHMS OR MICROGRADS UNLESS OTHERWISE INDICATED.
2. HIGHEST COMPONENT NUMBERS USED:
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C-722/C-722A/C-962/C-962A/C-962S

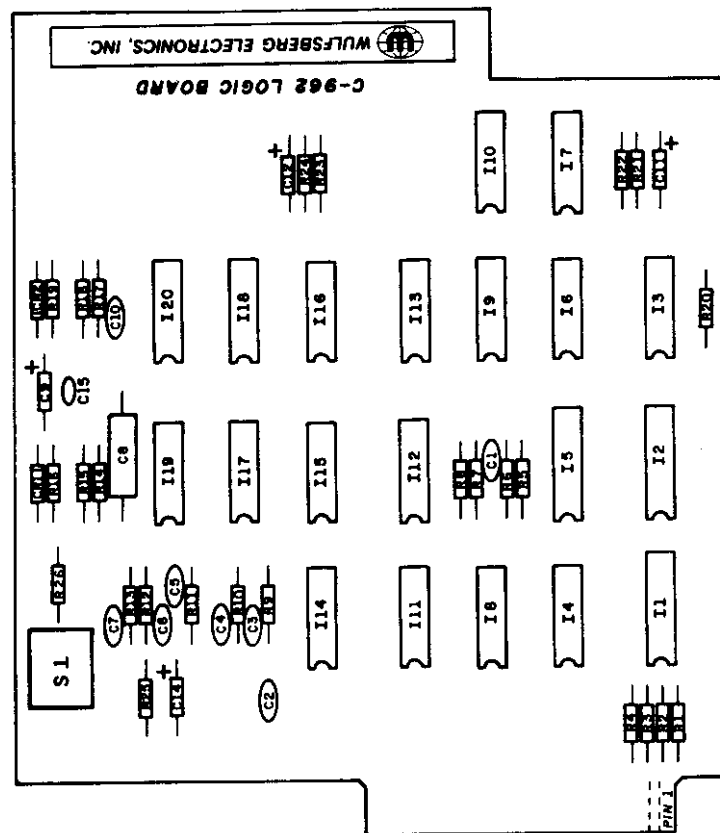
SUMMARY OF SCHEMATIC CHANGES

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	
SCALE	2:1	TOLERANCE UNLESS NOTED	1% RESISTORS	1% CAPACITORS	1% INDUCTORS
REV	1	DATE	6-4-79	ORIGINAL	6-4-79
REV	2	DATE	8-7-79	REVISED	8-7-79
REV	3	DATE	12-27-80	REVISED	12-27-80
REV	4	DATE	12-27-80	REVISED	12-27-80
REV	5	DATE	12-27-80	REVISED	12-27-80
REV	6	DATE	12-27-80	REVISED	12-27-80
REV	7	DATE	12-27-80	REVISED	12-27-80
REV	8	DATE	12-27-80	REVISED	12-27-80
REV	9	DATE	12-27-80	REVISED	12-27-80
REV	10	DATE	12-27-80	REVISED	12-27-80
REV	11	DATE	12-27-80	REVISED	12-27-80
REV	12	DATE	12-27-80	REVISED	12-27-80
REV	13	DATE	12-27-80	REVISED	12-27-80
REV	14	DATE	12-27-80	REVISED	12-27-80
REV	15	DATE	12-27-80	REVISED	12-27-80
REV	16	DATE	12-27-80	REVISED	12-27-80
REV	17	DATE	12-27-80	REVISED	12-27-80
REV	18	DATE	12-27-80	REVISED	12-27-80
REV	19	DATE	12-27-80	REVISED	12-27-80
REV	20	DATE	12-27-80	REVISED	12-27-80
REV	21	DATE	12-27-80	REVISED	12-27-80
REV	22	DATE	12-27-80	REVISED	12-27-80
REV	23	DATE	12-27-80	REVISED	12-27-80
REV	24	DATE	12-27-80	REVISED	12-27-80
REV	25	DATE	12-27-80	REVISED	12-27-80
REV	26	DATE	12-27-80	REVISED	12-27-80
REV	27	DATE	12-27-80	REVISED	12-27-80
REV	28	DATE	12-27-80	REVISED	12-27-80
REV	29	DATE	12-27-80	REVISED	12-27-80
REV	30	DATE	12-27-80	REVISED	12-27-80
REV	31	DATE	12-27-80	REVISED	12-27-80
REV	32	DATE	12-27-80	REVISED	12-27-80
REV	33	DATE	12-27-80	REVISED	12-27-80
REV	34	DATE	12-27-80	REVISED	12-27-80
REV	35	DATE	12-27-80	REVISED	12-27-80
REV	36	DATE	12-27-80	REVISED	12-27-80
REV	37	DATE	12-27-80	REVISED	12-27-80
REV	38	DATE	12-27-80	REVISED	12-27-80
REV	39	DATE	12-27-80	REVISED	12-27-80
REV	40	DATE	12-27-80	REVISED	12-27-80
REV	41	DATE	12-27-80	REVISED	12-27-80
REV	42	DATE	12-27-80	REVISED	12-27-80
REV	43	DATE	12-27-80	REVISED	12-27-80
REV	44	DATE	12-27-80	REVISED	12-27-80
REV	45	DATE	12-27-80	REVISED	12-27-80
REV	46	DATE	12-27-80	REVISED	12-27-80
REV	47	DATE	12-27-80	REVISED	12-27-80
REV	48	DATE	12-27-80	REVISED	12-27-80
REV	49	DATE	12-27-80	REVISED	12-27-80
REV	50	DATE	12-27-80	REVISED	12-27-80
REV	51	DATE	12-27-80	REVISED	12-27-80
REV	52	DATE	12-27-80	REVISED	12-27-80
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REV	54	DATE	12-27-80	REVISED	12-27-80
REV	55	DATE	12-27-80	REVISED	12-27-80
REV	56	DATE	12-27-80	REVISED	12-27-80
REV	57	DATE	12-27-80	REVISED	12-27-80
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REV	59	DATE	12-27-80	REVISED	12-27-80
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REV	70	DATE	12-27-80	REVISED	12-27-80
REV	71	DATE	12-27-80	REVISED	12-27-80
REV	72	DATE	12-27-80	REVISED	12-27-80
REV	73	DATE	12-27-80	REVISED	12-27-80
REV	74	DATE	12-27-80	REVISED	12-27-80
REV	75	DATE	12-27-80	REVISED	12-27-80
REV	76	DATE	12-27-80	REVISED	12-27-80
REV	77	DATE	12-27-80	REVISED	12-27-80
REV	78	DATE	12-27-80	REVISED	12-27-80
REV	79	DATE	12-27-80	REVISED	12-27-80
REV	80	DATE	12-27-80	REVISED	12-27-80
REV	81	DATE	12-27-80	REVISED	12-27-80
REV	82	DATE	12-27-80	REVISED	12-27-80
REV	83	DATE	12-27-80	REVISED	12-27-80
REV	84	DATE	12-27-80	REVISED	12-27-80
REV	85	DATE	12-27-80	REVISED	12-27-80
REV	86	DATE	12-27-80	REVISED	12-27-80
REV	87	DATE	12-27-80	REVISED	12-27-80
REV	88	DATE	12-27-80	REVISED	12-27-80
REV	89	DATE	12-27-80	REVISED	12-27-80
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REV	94	DATE	12-27-80	REVISED	12-27-80
REV	95	DATE	12-27-80	REVISED	12-27-80
REV	96	DATE	12-27-80	REVISED	12-27-80
REV	97	DATE	12-27-80	REVISED	12-27-80
REV	98	DATE	12-27-80	REVISED	12-27-80
REV	99	DATE	12-27-80	REVISED	12-27-80
REV	100	DATE	12-27-80	REVISED	12-27-80

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

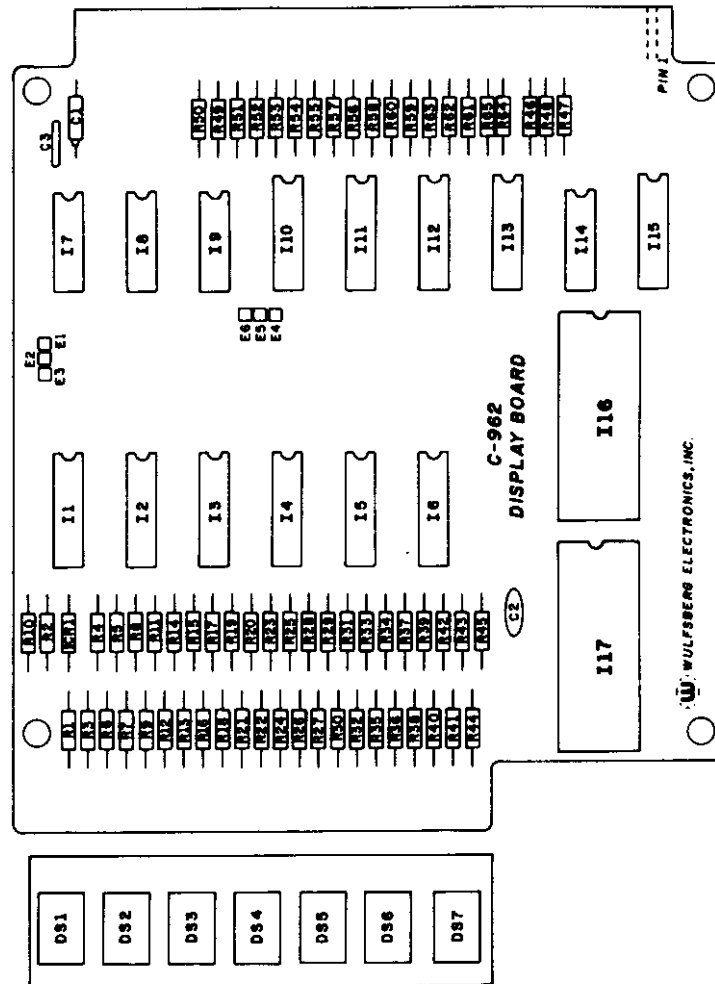
C-722/C-722A/C-962/C-962A/C-962S

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

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



WULFSBERG ELECTRONICS, INC.		TOLERANCE UNLESS NOTED RESISTORS: 1% CAPACITORS: 5% DIMENSIONS: ±.01"		—H—	
SCALE 2:1	DATE 6-4-79	REV O	BY JEF	CHKD CDB	10-1
TITLE C-962 DISPLAY BOARD COMPONENT LOCATOR			SHEET NUMBER 1 OF 1		
148-0161-01			111 100		

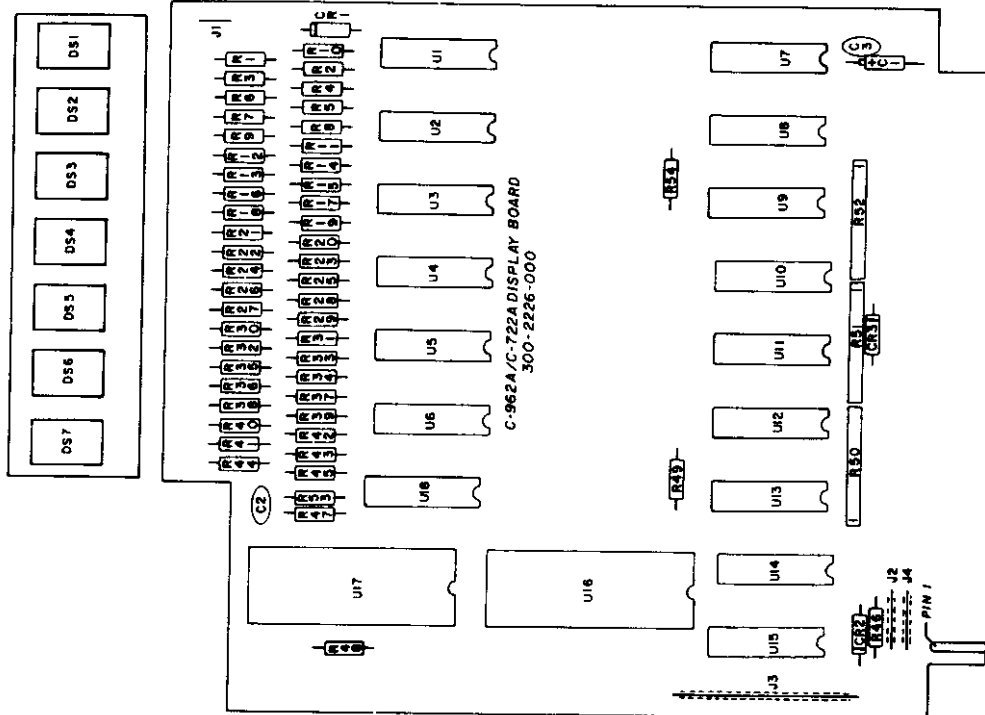
C-722/C-962 DISPLAY BOARD (A5) COMPONENT LOCATOR
FIGURE 5.1-13

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

SUMMARY OF SCHEMATIC CHANGES

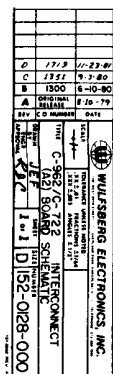
C-722A/C-962A/C-962S DISPLAY BOARD (A5)

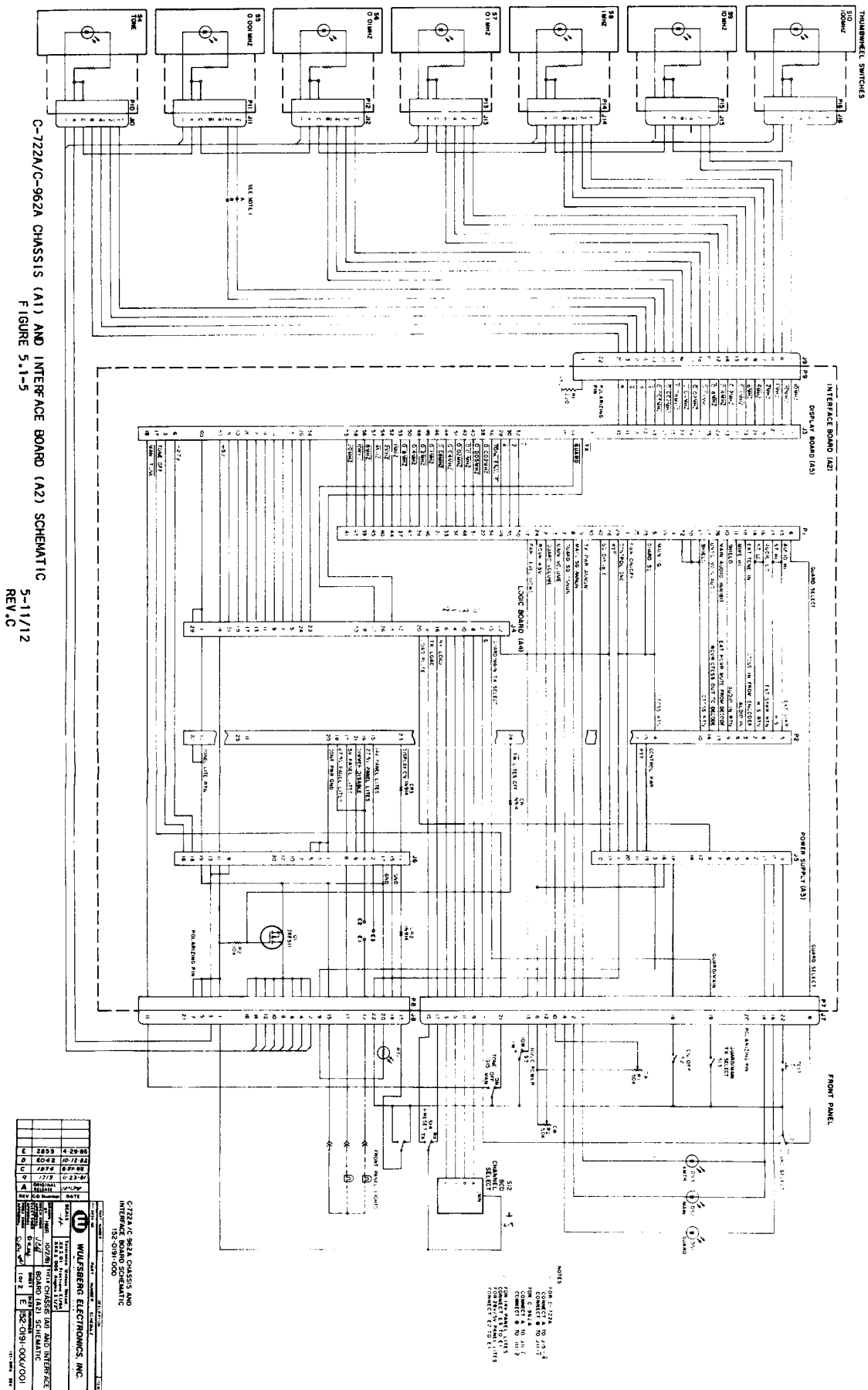
SCHEMATIC REVISION	DESCRIPTION OF CHANGE	SERVICE BULLETIN	MOD STAT	MCN NO.
A	Original release.	N/A	--	0100
B	Fix manual tone during Guard XMTR: Add: R49 - 47K ohm 1/4W R54 - 4.7K ohm 1/4W	N/A	1	0539
C	Schematic cleanup - correct values of R1 through R45: Delete: R1 through R45 - 68 ohm 1/4W Add: R1 through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

[illegible]



5-3/4
REV.C

5-7/8
REV.C

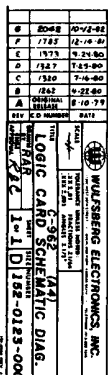


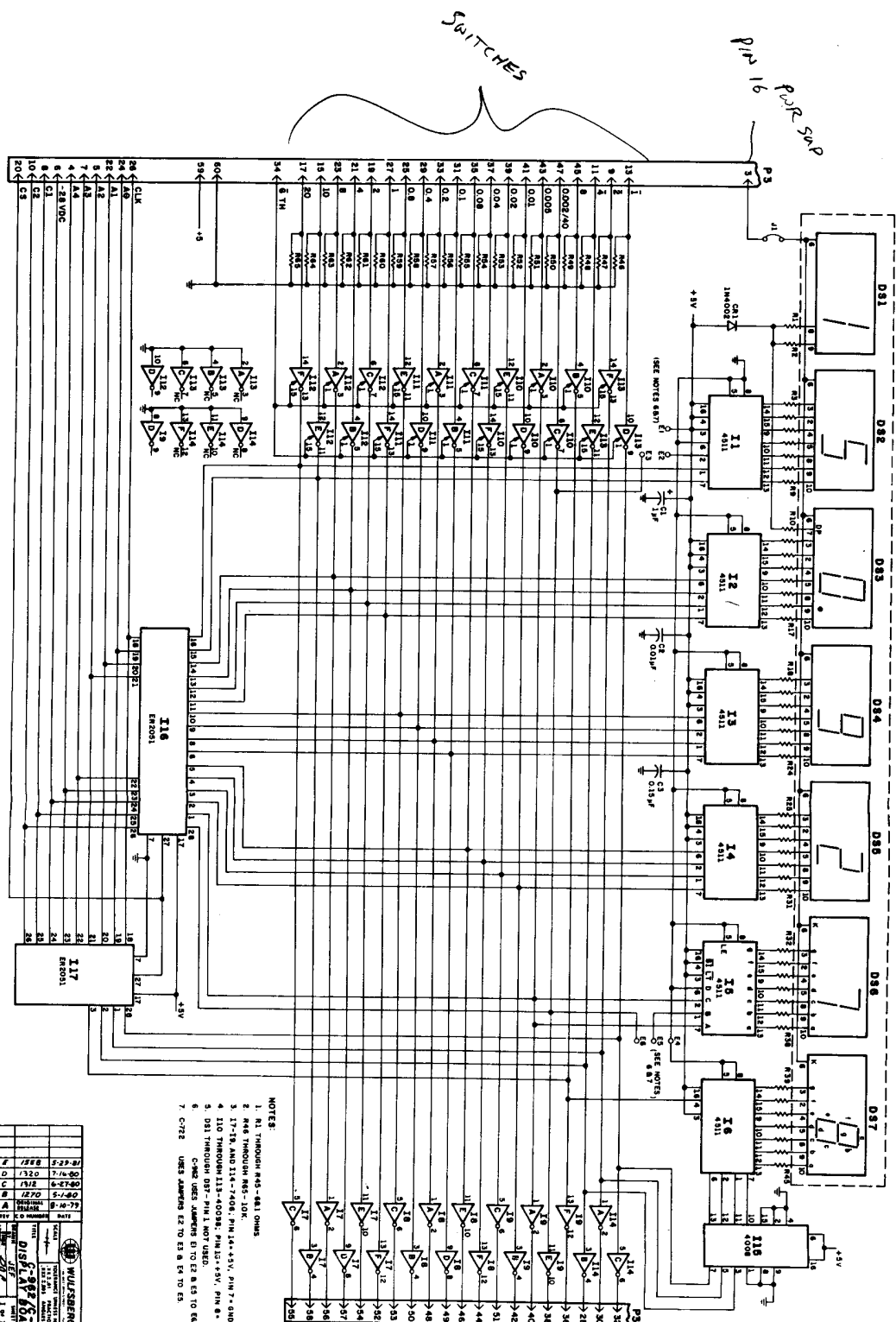


11-LM723
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5-17/18
REV.C

[illegible]

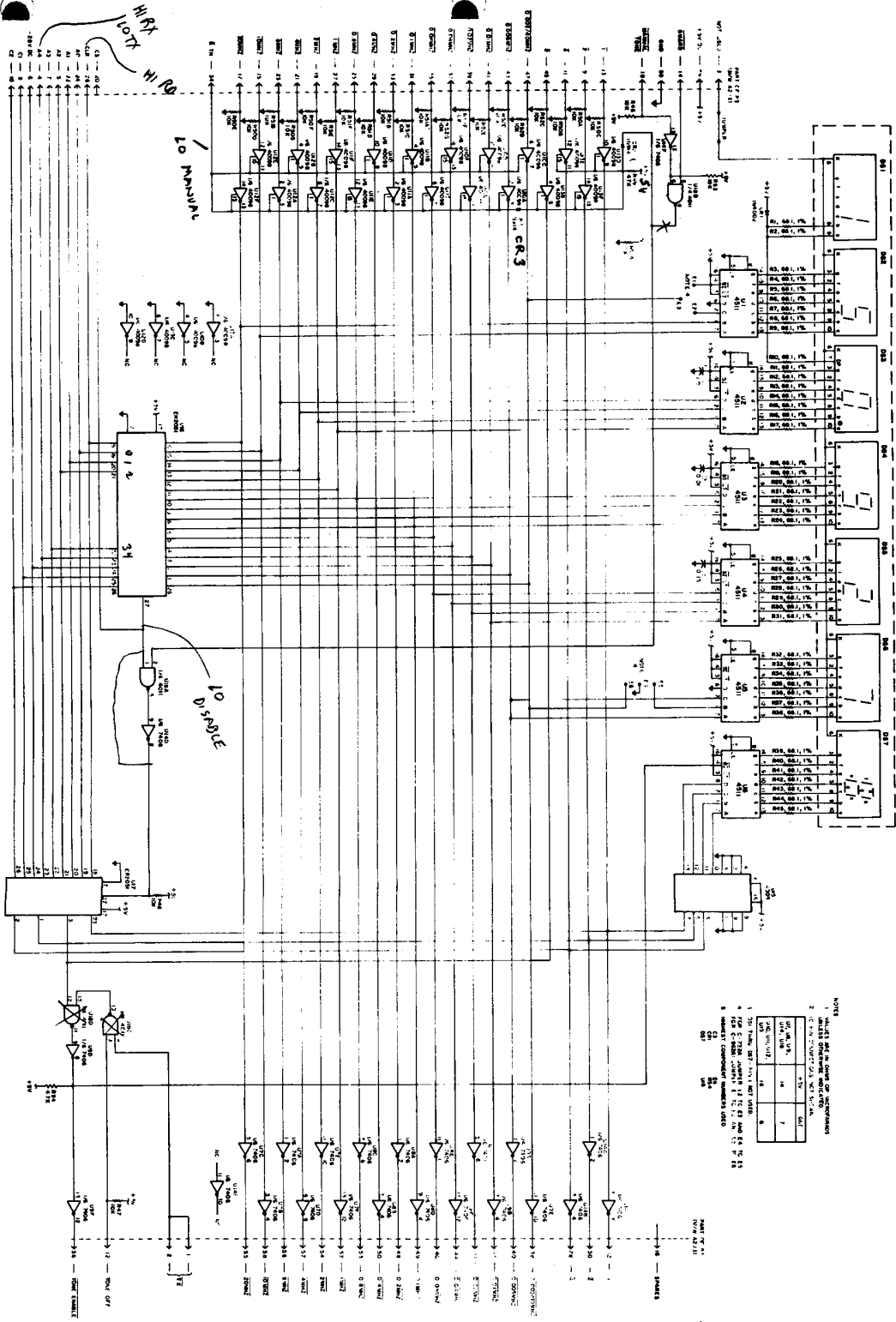




C-722/C-962 DISPLAY BOARD (AS) SCHEMATIC
FIGURE 5.1-14

5-29/30
REV.C

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



C-712N/C-962N/C-962S DISPLAY BOARD (AS) SCHEMATIC
FIGURE 5.1-16

5-33/34
REV. C

Part No.	Quantity	Notes
74LS00	1	1
74LS04	1	2
74LS10	1	3
74LS125	1	4
74LS139	1	5
74LS14	1	6
74LS153	1	7
74LS161	1	8
74LS162	1	9
74LS163	1	10
74LS164	1	11
74LS165	1	12
74LS166	1	13
74LS167	1	14
74LS168	1	15
74LS169	1	16
74LS170	1	17
74LS171	1	18
74LS172	1	19
74LS173	1	20
74LS174	1	21
74LS175	1	22
74LS176	1	23
74LS177	1	24
74LS178	1	25
74LS179	1	26
74LS180	1	27
74LS181	1	28
74LS182	1	29
74LS183	1	30
74LS184	1	31
74LS185	1	32
74LS186	1	33
74LS187	1	34
74LS188	1	35
74LS189	1	36
74LS190	1	37
74LS191	1	38
74LS192	1	39
74LS193	1	40
74LS194	1	41
74LS195	1	42
74LS196	1	43
74LS197	1	44
74LS198	1	45
74LS199	1	46
74LS200	1	47
74LS201	1	48
74LS202	1	49
74LS203	1	50
74LS204	1	51
74LS205	1	52
74LS206	1	53
74LS207	1	54
74LS208	1	55
74LS209	1	56
74LS210	1	57
74LS211	1	58
74LS212	1	59
74LS213	1	60
74LS214	1	61
74LS215	1	62
74LS216	1	63
74LS217	1	64
74LS218	1	65
74LS219	1	66
74LS220	1	67
74LS221	1	68
74LS222	1	69
74LS223	1	70
74LS224	1	71
74LS225	1	72
74LS226	1	73
74LS227	1	74
74LS228	1	75
74LS229	1	76
74LS230	1	77
74LS231	1	78
74LS232	1	79
74LS233	1	80
74LS234	1	81
74LS235	1	82
74LS236	1	83
74LS237	1	84
74LS238	1	85
74LS239	1	86
74LS240	1	87
74LS241	1	88
74LS242	1	89
74LS243	1	90
74LS244	1	91
74LS245	1	92
74LS246	1	93
74LS247	1	94
74LS248	1	95
74LS249	1	96
74LS250	1	97
74LS251	1	98
74LS252	1	99
74LS253	1	100
74LS254	1	101
74LS255	1	102
74LS256	1	103
74LS257	1	104
74LS258	1	105
74LS259	1	106
74LS260	1	107
74LS261	1	108
74LS262	1	109
74LS263	1	110
74LS264	1	111
74LS265	1	112
74LS266	1	113
74LS267	1	114
74LS268	1	115
74LS269	1	116
74LS270	1	117
74LS271	1	118
74LS272	1	119
74LS273	1	120
74LS274	1	121
74LS275	1	122
74LS276	1	123
74LS277	1	124
74LS278	1	125
74LS279	1	126
74LS280	1	127
74LS281	1	128
74LS282	1	129
74LS283	1	130
74LS284	1	131
74LS285	1	132
74LS286	1	133
74LS287	1	134
74LS288	1	135
74LS289	1	136
74LS290	1	137
74LS291	1	138
74LS292	1	139
74LS293	1	140
74LS294	1	141
74LS295	1	142
74LS296	1	143
74LS297	1	144
74LS298	1	145
74LS299	1	146
74LS300	1	147
74LS301	1	148
74LS302	1	149
74LS303	1	150
74LS304	1	151
74LS305	1	152
74LS306	1	153
74LS307	1	154
74LS308	1	155
74LS309	1	156
74LS310	1	157
74LS311	1	158
74LS312	1	159
74LS313	1	160
74LS314	1	161
74LS315	1	162
74LS316	1	163
74LS317	1	164
74LS318	1	165
74LS319	1	166
74LS320	1	167
74LS321	1	168
74LS322	1	169
74LS323	1	170
74LS324	1	171