



Rockwell
International

diagrams

Collins Defense Communications

523-0769217-002218

2nd Edition, 1 March 1981

851S-1 Receiver

Printed in USA

list of illustrations

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NOTICE: This section replaces first edition dated 1 January 1979.

List of Effective Pages

*The asterisk indicates pages changed, added, or deleted by the current change.

Page No	Issue	Page No	Issue
Title	1 Mar 81	28 Blank	1 Mar 81
List of Effective Pages	1 Mar 81	29	1 Mar 81
1 thru 3	1 Mar 81	30 Blank	1 Mar 81
4 Blank	1 Mar 81	31	1 Mar 81
5	1 Mar 81	32 Blank	1 Mar 81
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Record of Changes

[illegible]

1. CONFIGURATION STATUS CONTROL

Collins Defense Communications, Rockwell International, uses a 2-character (maximum) alphabetic identifier for configuration identification. The alphabetic identifier is preceded by the letters REV (revision) and starts with — (dash) if no changes have been made. The first change is identified as A, second as B, continuing through Z to AA, AB, and ultimately to ZZ.

Note

The alphabetic identifier is not a serial number; therefore, many units or subassemblies may exist with the same identifier.

Incorporation of design changes in the unit or subassembly that has been returned to Collins Defense Communications for repair or that has been removed from the company's finished goods inventory is defined as rework. At the time of rework, the unit or subassembly is marked again to reflect the design level to which it is being upgraded. This is done by leaving the original marking on the unit or subassembly and adding the letters RWK (rework) followed by the alphabetic identifier of the latest change incorporated in the rework. For example, unit one is marked REV B — RWK F and unit two is marked REV F indicating that both units are at the design level of revision F, but unit one is reworked and they may not look exactly the same.

Note

A reworked unit may not contain all design changes made prior to the reworked alphabetic identifier, but does contain all changes required to make unit operation identical to a newly manufactured unit with the same alphabetic identifier. Therefore, a unit reworked to a specific alphabetic identifier may physically appear different from a newly manufactured unit at the same alphabetic identifier.

Only alphabetic identifiers that result in schematic changes are covered in this section. Therefore, if a unit or subassembly has an identifier that alphabetically falls between identifiers on the schematic changes page, or after the last identifier on the schematic changes page up to and including the latest effectivity listed below, the electrical configuration is represented by the earlier alphabetic identifier listed on the schematic changes page.

2. CONFIGURATION EFFECTIVITY

Refer to the schematic changes page preceding each subassembly schematic for any subassembly changes that may have occurred and the corresponding alphabetic identifier covering each change.

Note

Configuration history before 1 January 1979 is not recorded in this section.

Listed below are the units/subassemblies with the latest alphabetic identifier covered by this document.

<u>UNIT/SUBASSEMBLY</u>	<u>COLLINS PART NUMBER</u>	<u>LATEST EFFECTIVITY</u>
851S-1 Receiver	622-4272-XXX	REV T
Receiver Assembly	622-4272-008	REV T
	622-4272-009	REV T
Cable Assembly, Receiver	635-4932-001	REV C
RF Cable Assembly, J30/J38	637-1526-001	REV A
RF Cable Assembly, Receive Antenna	637-1525-001	REV A
RF Cable Assembly, W3	637-1525-002	REV A
RF Cable Assembly, W4	637-1525-002	REV A
RF Cable Assembly, W5	637-1526-002	REV —
RF Cable Assembly, W6	637-1526-002	REV —
RF Cable Assembly, AFC	637-1526-005	REV B
RF Cable Assembly, VBFO	637-1526-005	REV B
Cable Assembly, Speaker	637-3759-001	REV B
RF Cable Assembly, AFC	637-3798-001	REV A
Sideboard Assembly	637-3760-001	REV C
	637-3760-002	REV C
	637-3760-003	REV D
Sideboard	638-6071-001	REV —
Cable, VBFO Display	637-3761-001	REV B

<u>UNIT/SUBASSEMBLY</u>	<u>COLLINS PART NUMBER</u>	<u>LATEST EFFECTIVITY</u>
Cable, Special Purpose	637-1524-001	REV C
	637-1524-002	REV D
Cable, Special Purpose	637-3762-001	REV —
Cable, Special Purpose	637-9636-002	REV D
RFI Filter	637-2712-004	REV —
Front Panel Assembly A2	637-3758-001	REV J
	637-3758-002	REV J
	637-3758-003	REV J
	637-3758-004	REV J
	637-3758-005	REV J
LED Status Display A2A1	635-0825-008	REV J
	635-0825-010	REV —
Switch Mounting Board		
A2A2	638-6060-001	REV A
	638-6060-002	REV B
Count/Store Assembly A2A4	638-6063-001	REV C
Frequency Display A2A5	637-1781-003	REV F
	637-1781-005	REV F
	637-1781-009	REV G
Optical Tuning Switch		
Assembly A2S13	610-2150-001	REV —
Channel Select Assembly		
A2S20	635-0900-001	REV —
Bracket Assembly, Jumper		
(AFCA3)	637-3796-001	REV B
Bracket Assembly, Jumper		
(VBFO A4)	637-3796-001	REV B
Synthesizer Chassis		
Assembly A23	635-9697-001	REV C
Synthesizer Sideboard A23A1	635-0696-001	REV K
RF Cable Assembly, J43/J24	635-1526-003	REV B
RF Cable Assembly, J45/J28	637-1526-003	REV B
RF Cable Assembly, J44/J32		
or J44/J49	637-1526-004	REV C
RF Cable Assembly, Chan A		
If or VBFO	637-1529-001	REV A
RF Cable Assembly, Chan B If	637-1529-001	REV A

SCHEMATIC CHANGES

REVISION IDENTIFICATION	DESCRIPTION OF REVISION AND REASON FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY
None	Added Jumper Bracket Assembly 637-3796-001 in two places.		All units
None	Added preset wiring and preset card reference at A12 card slot.		622-4272-008, all units

*Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet A)*

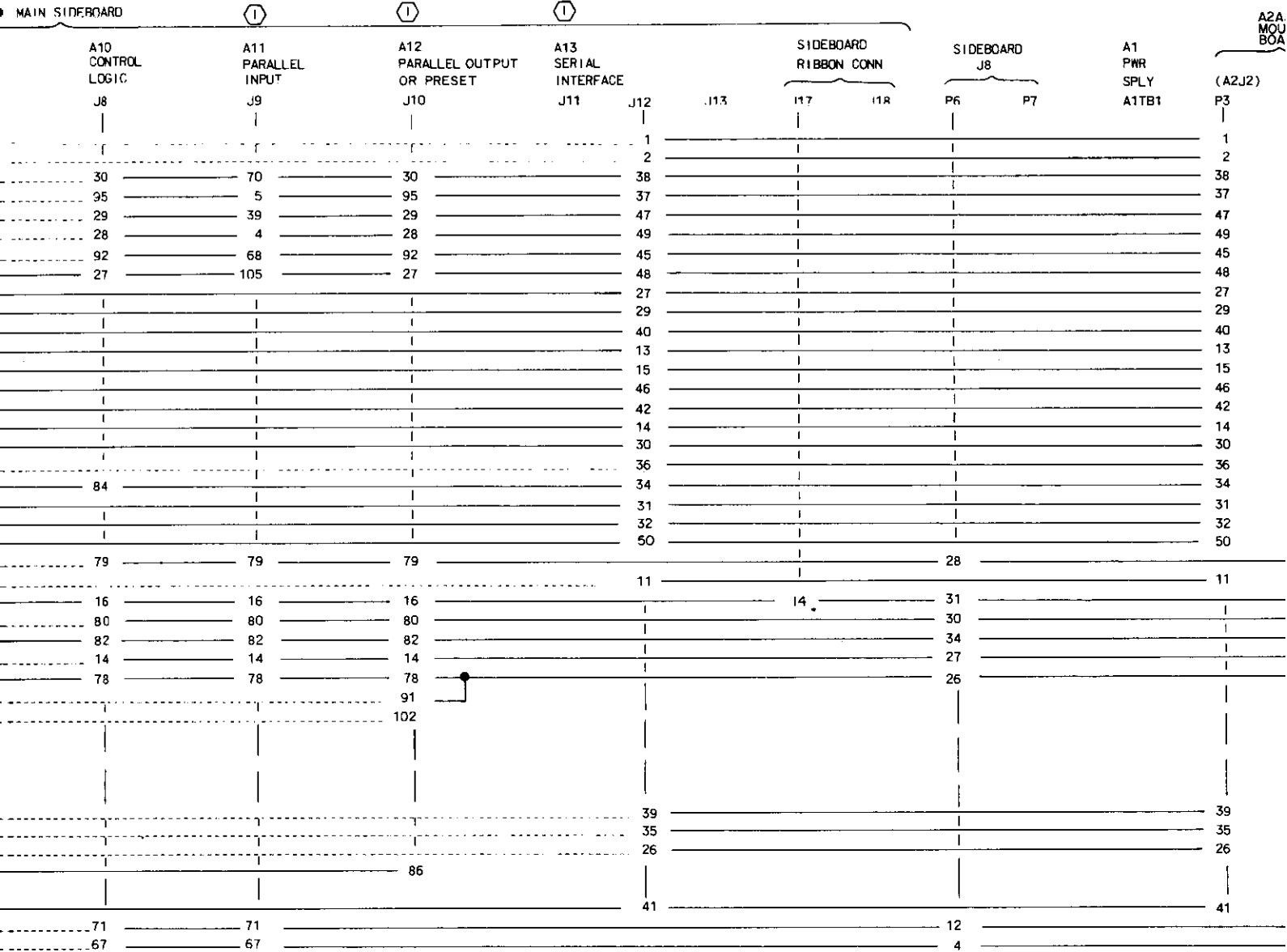
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P/O MAIN SIDEBARD

FUNCTION	A3 AFC J1	A4 VBFO J2	A6 RCV AUDIO J4	A7 CH B IF AMPL J5	A8 CH A IF AMPL J6	A9 RF XLTR J7	A10 CONTROL LOGIC J8
SPARE							
DIAL LOCK							
RATE (1)							30
RATE (2)							95
RATE (4)							29
RATE (8)							28
RATE (16)							92
UP/DOWN		13					27
SQUELCH ENBL			46				
SQUELCH THRESHOLD			47				
RCV PHONES AF			12				
CH A SPKR AF			9				
CH B SPKR AF			21				
CH A RCV METER			3				
CH B RCV METER			52				
SQUELCH AF LVL			48				
AF LVL			45				
WD4G							
CLK INH		30					84
CH A RCV PHONES			14				
CH B RCV PHONES			15				
PHONES LVL			24				
RESERVED							79
AF LVL RTN							
LCL ENBL		50					16
MONITOR (PRESET ENBL)							80
VBFO TUNE		3					82
FINE TUNE							14
VBFO PAR ENBL		32					78
STRAP 1							
STRAP 2							
CH A SSB AF			34		34		
CH A AM AF			35		8		
CH A FM AF			7		5		
CH B RCV AF			50	34			
RESERVED							
RESERVED							
LOCAL RF GAIN				39	39		
REMOTE RF GAIN				11	11		
RF AGC				18	18	18	
AGC METER				12	12		
PRESEL FAULT IND							71
RF OVLD IND							67



	①	①	①	①	①	①	①	①	①
	A3 AFC J1	A4 VBFO J2	A6 RCV AUDIO J4	A7 CH B IF AMPL J5	A8 CH A IF AMPL J6	A9 RF XLTR J7	A10 CONTROL LOGIC J8	A11 PARALLEL INPUT J9	A12 PARALLEL OR PRESET J10
FUNCTION									
RT FAULT IND							3	3	
AFC LOCK IND	2						2	2	
CH A RCV AF PM								36	
CH B RCV AF PM			51					101	
RCV RF OVLD						3	12		
PWR SPLY FAULT							86	86	
FREQ SYNTH FAULT							49	49	
CH A AGC PM					2			83	
VBFO SYNTH FAULT		34					110	7	
CH B AGC PM				2				18	
RMT FREQ CHG				33	33		21		21
CROWBAR ENBL				37	37			37	37
CH A AGC OFF					4			84	84
CH A AGC FAST					32			85	85
CH B AGC OFF				4				19	19
CH B AGC FAST				32				20	20
FREQ	20 MHz						129	129	129
	10 MHz						64	64	64
	8 MHz						128	128	128
	4 MHz						63	63	63
	2 MHz						127	127	127
	1 MHz						62	62	62
	800 kHz						126	126	126
	400 kHz						61	61	61
	200 kHz						125	125	125
	100 kHz						60	60	60
	80 kHz						124	124	124
	40 kHz						59	59	59
	20 kHz						123	123	123
	10 kHz						58	58	58
	8 kHz						122	122	122
	4 kHz						57	57	57
	2 kHz						121	121	121
	1 kHz						56	56	56
	800 Hz						120	120	120
	400 Hz						55	55	55
	200 Hz						119	119	119
	100 Hz						54	54	54
	80 Hz						118	118	118
	40 Hz						53	53	53
	20 Hz						117	117	117
	10 Hz						52	52	52
	8 Hz						116	116	116
	4 Hz						51	51	51
	2 Hz						115	115	115
	1 Hz						50	50	50

P/O MAIN SIDEBOARD

SIDEBOARD

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①

①

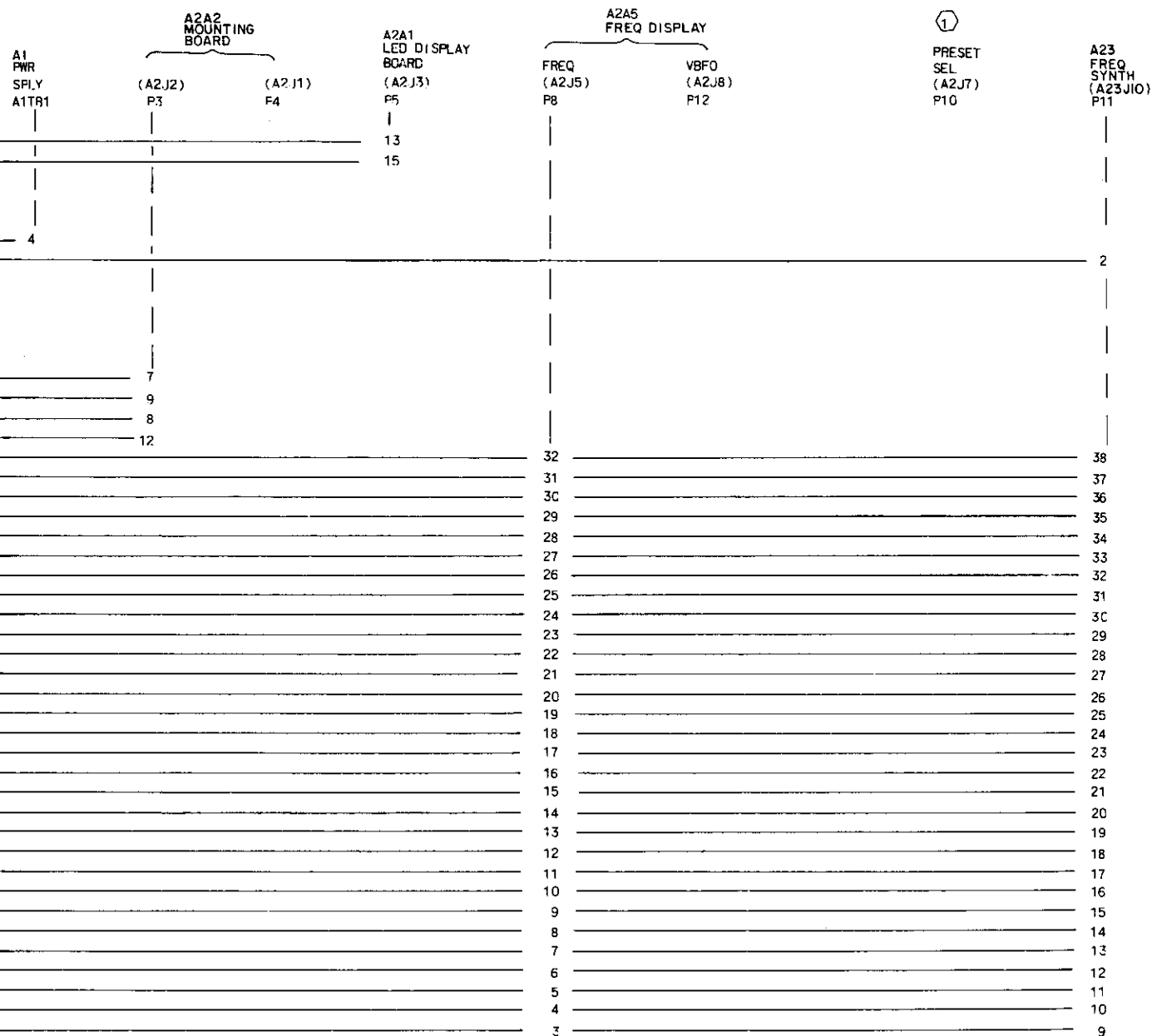
CONTROL
ICA11
PARALLEL
INPUT
J9A12
PARALLEL OUTPUT
OR PRESET
J10A13
SERIAL
INTERFACE
J11

J12

J13

SIDEBOARD
RIBBON CONN
J17 J18SIDEBOARD
J18
P6 F7A1
PWR
SPLY
A1TR1(A2J2)
P3A2A2
MOUNTING
BOARD(A2J1)
F4

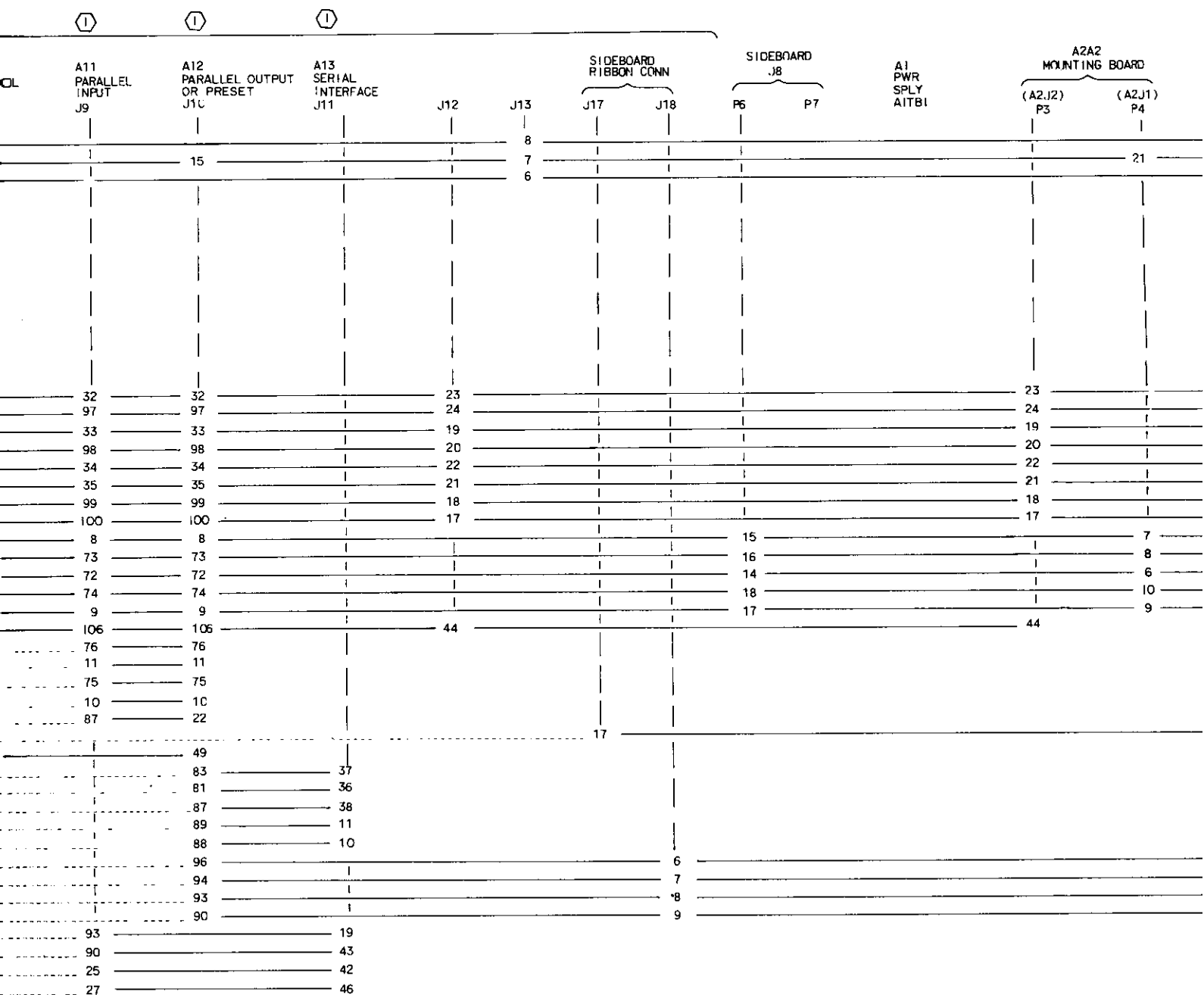
3						5					
2						3					
36											
101											
86											
49									4		
83											
7											
18											
	21										
37	37										
84	84			7						7	
85	85			9						9	
19	19			8						8	
20	20			12						12	
129	129				38						
64	64				37						
128	128				36						
63	63				35						
127	127				34						
62	62				33						
126	126				32						
61	61				31						
125	125				30						
60	60				29						
124	124				28						
59	59				27						
123	123				26						
58	58				25						
122	122				24						
57	57				23						
121	121				22						
56	56				21						
120	120				20						
55	55				19						
119	119				18						
54	54				17						
118	118				16						
53	53				15						
117	117				14						
52	52				13						
116	116				12						
51	51				11						
115	115				10						
50	50				9						

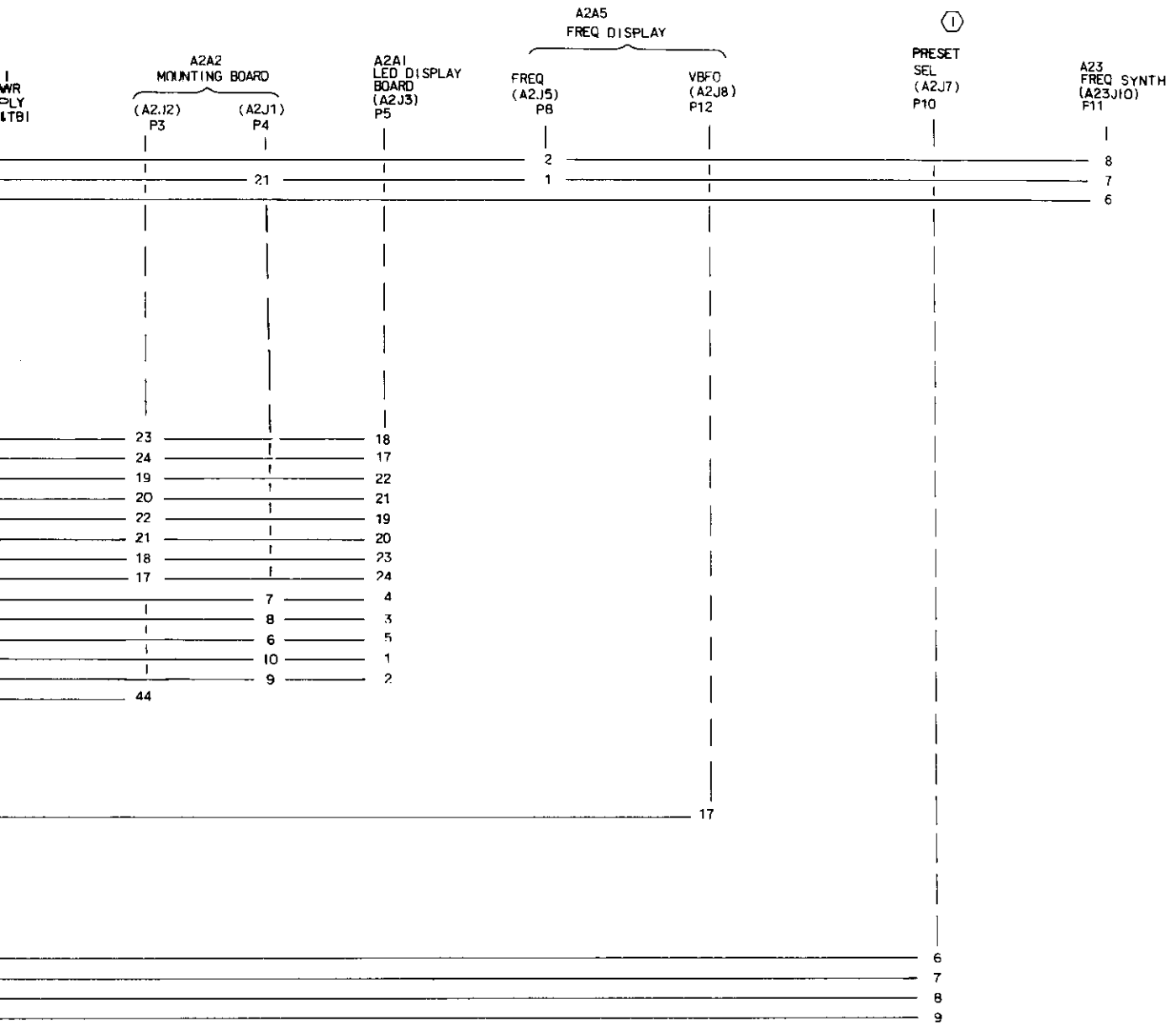


634-6718 SH 2

Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet 2)

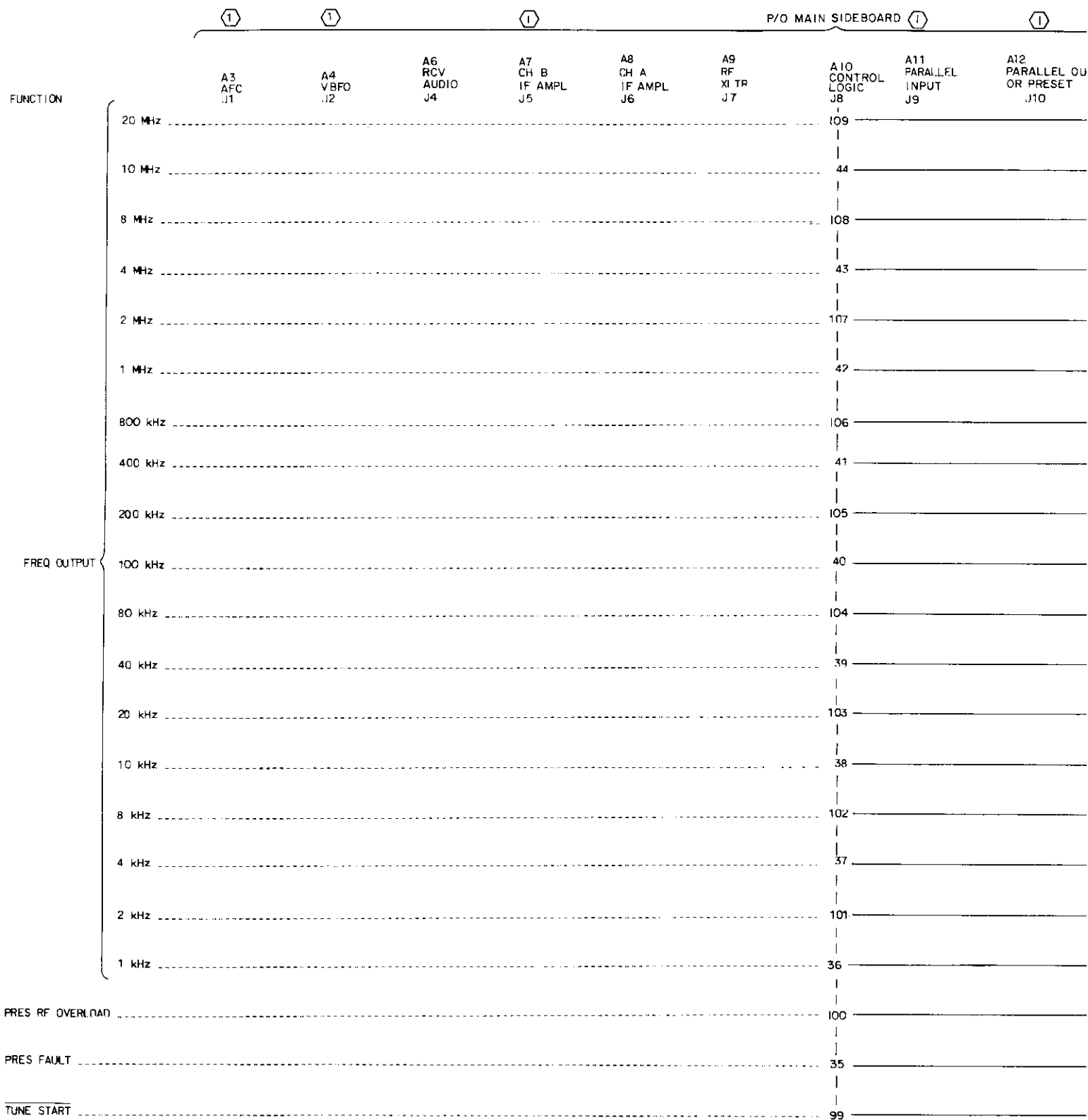
	①	①	①	①	①	①	①	①	①
	A3 AFC J1	A4 VFO J2	A6 RCV AUDIO J4	A7 CH B IF AMPL J5	A8 CH A IF AMPL J6	A9 RF XLTR J7	A10 CONTROL LOGIC J8	A11 PARALLEL INPUT J9	A12 PARALL OR PRE J10
FUNCTION									
LCL FREQ CHG							47		
LCL FREQ ENBL (PRESET STORE)							15		15
450 kHz ENBL		51					48		
BAND	1(0-.56)					31	18		
	2(.56-1.6)					32	19		
	3(1.6-2)					33	20		
	4(2-3)					34	22		
	5(3-4)					5	87		
	6(4-6)					7	23		
	7(6-8)					35	88		
	8(8-12)					8	24		
	9(12-16)					36	89		
	10(16-24)					9	25		
	11(24-30)					38	90		
FILTER	1(USB)				14			32	32
	2(LSB)			42	42			97	97
	3(A)				15			33	33
	4(B)				43			98	98
	5(C)				16			34	34
	6(D)				45			35	35
	7(E)				17			99	99
	8(16 kHz)				46			100	100
AM ENBL			37		35		8	8	
FM ENBL			10		10		73	73	
SSB ENBL			36		36		72	72	
ISB ENBL			44	44	44		74	74	
CW ENBL			39		38		9	9	
AFC ENBL	50							106	106
RF GAIN	16							76	76
	8							11	11
	4							75	75
	2							10	10
	1							87	22
WD3G (VFO CHG)									
PAR FREQ ENBL							113		49
STA 1									83
STA 2									81
STROBE									87
DATA									89
CLOCK									88
PAB	1								96
	2								94
	3								93
	4								90
MUX	8							93	
	4							90	
	2							25	
	1							27	

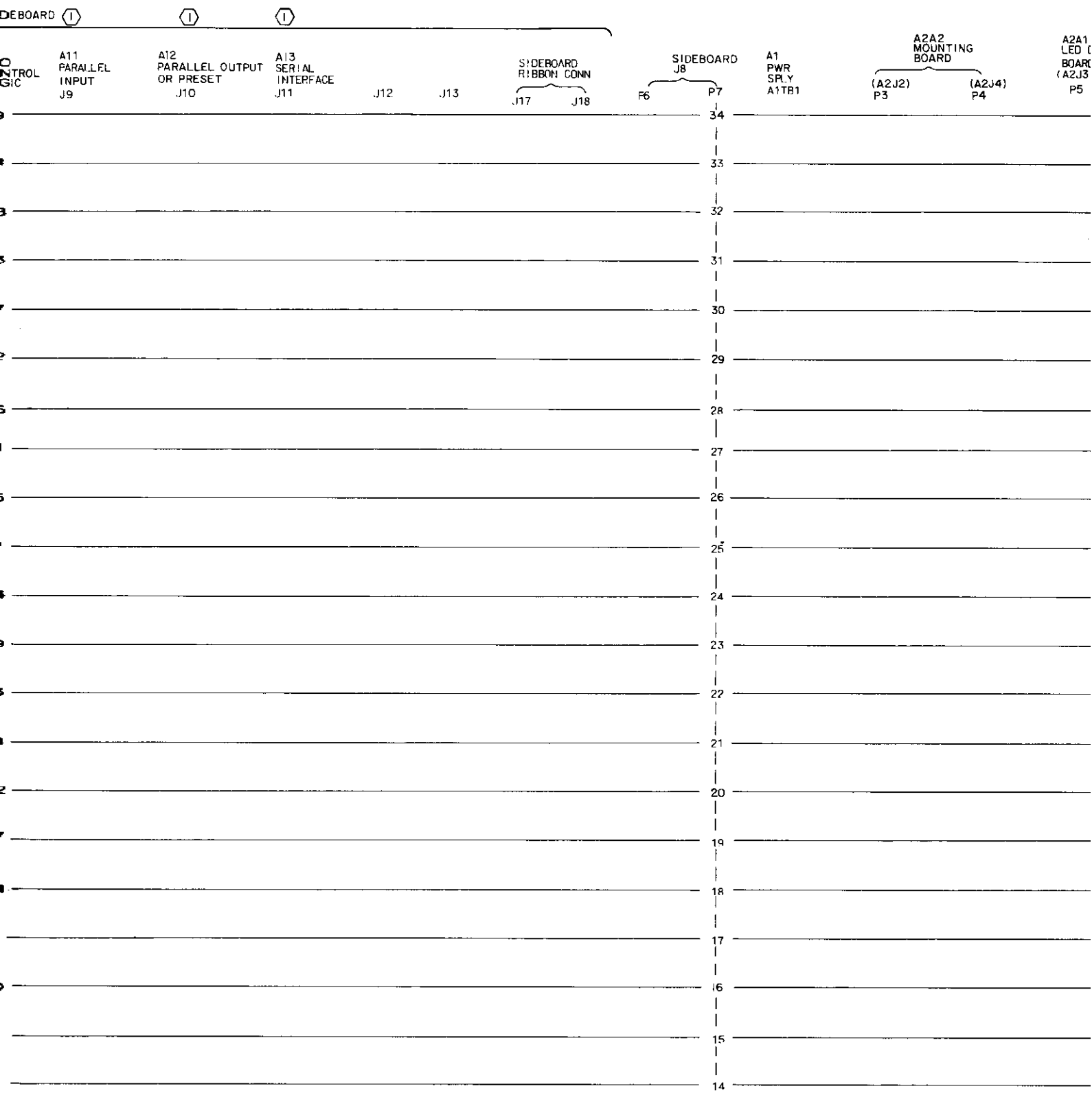


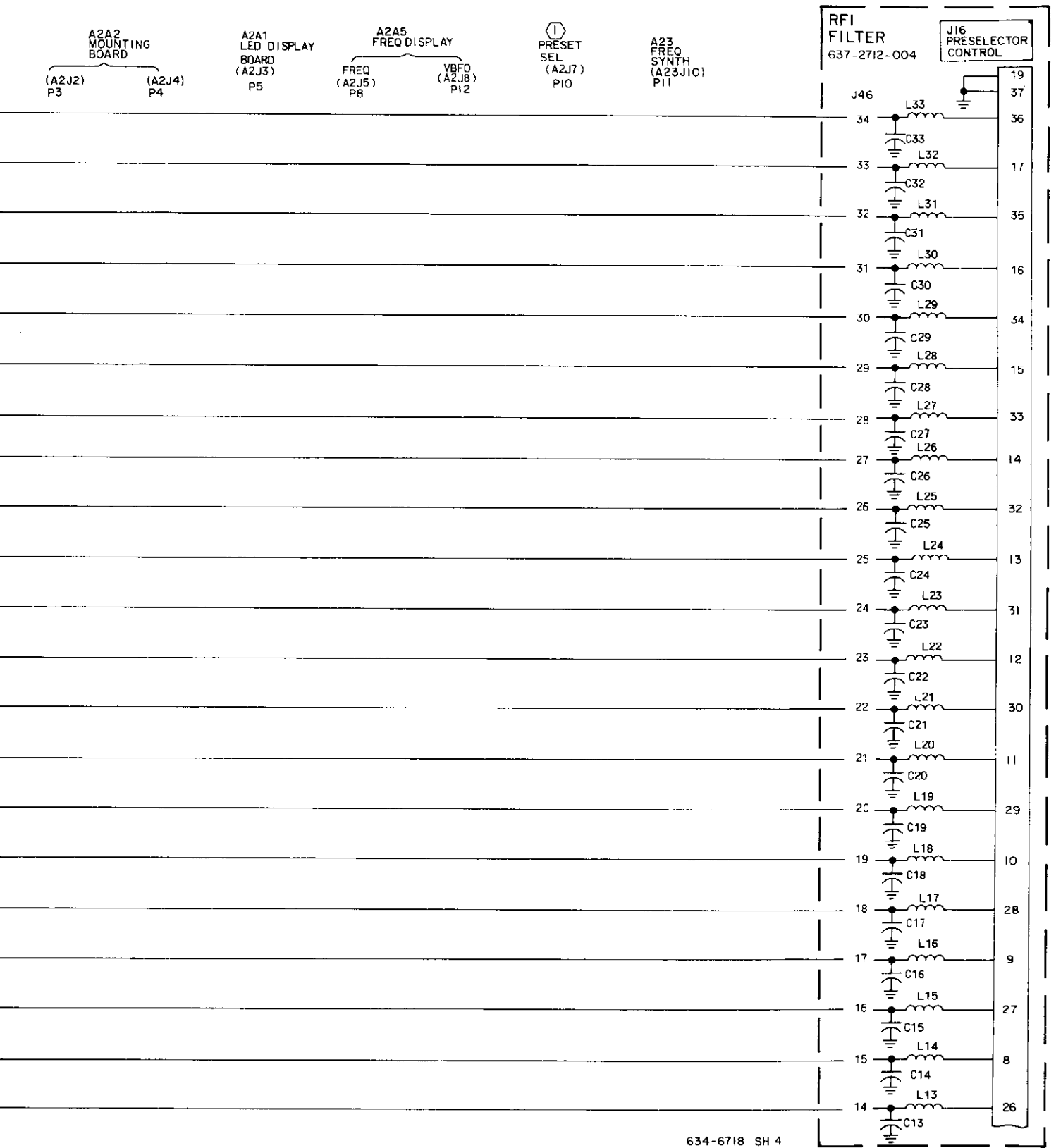


634-6718 SH 3

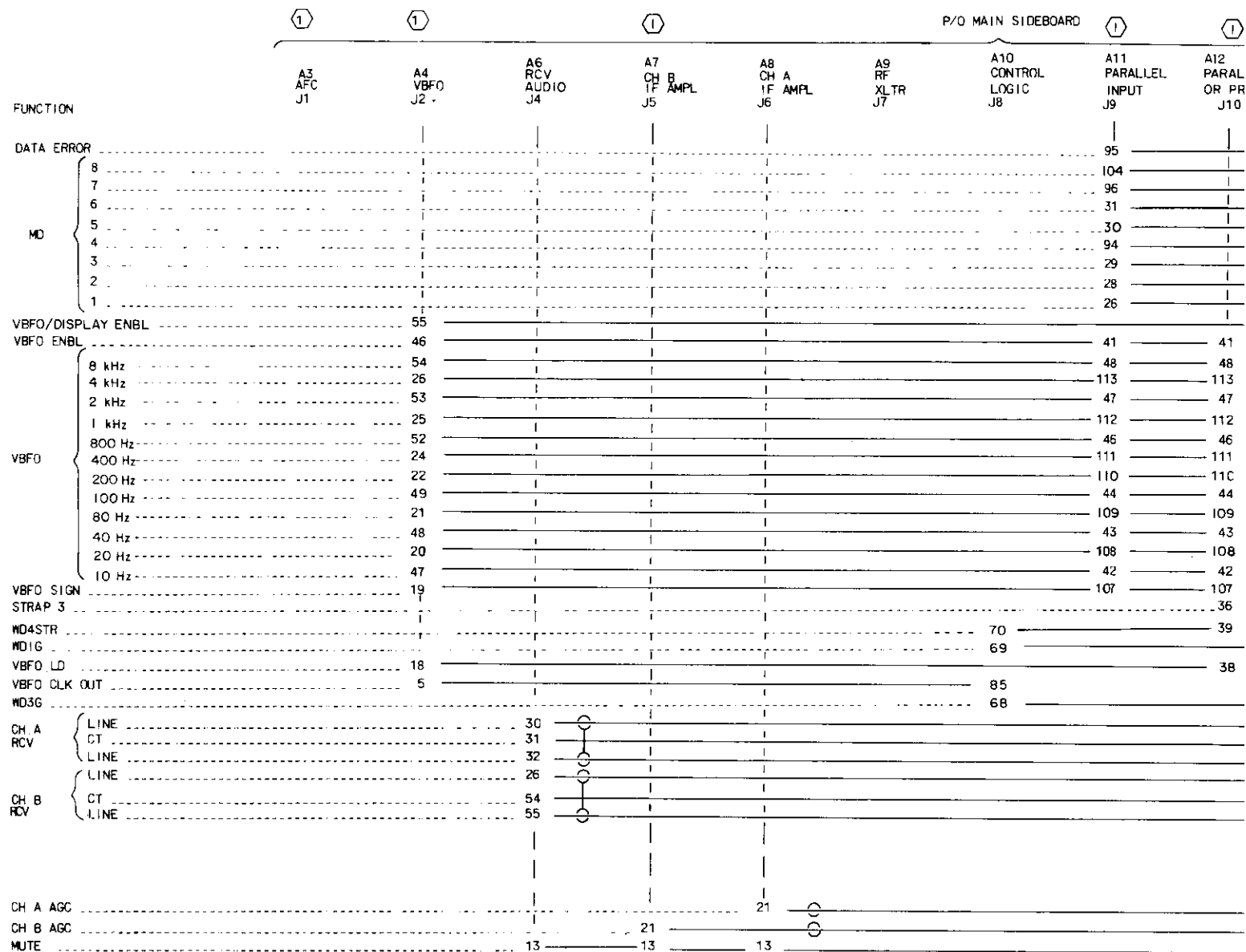
Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet 3)

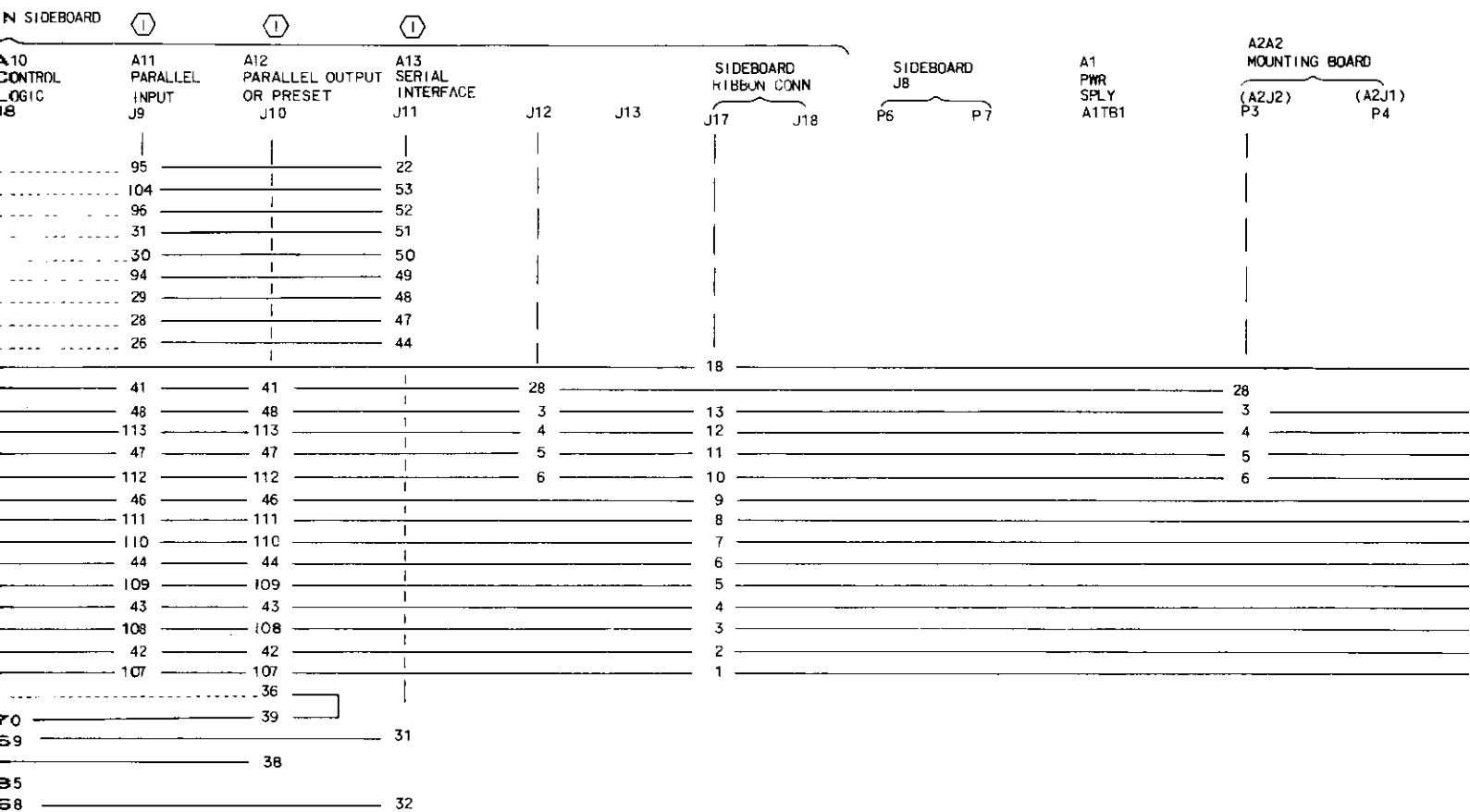


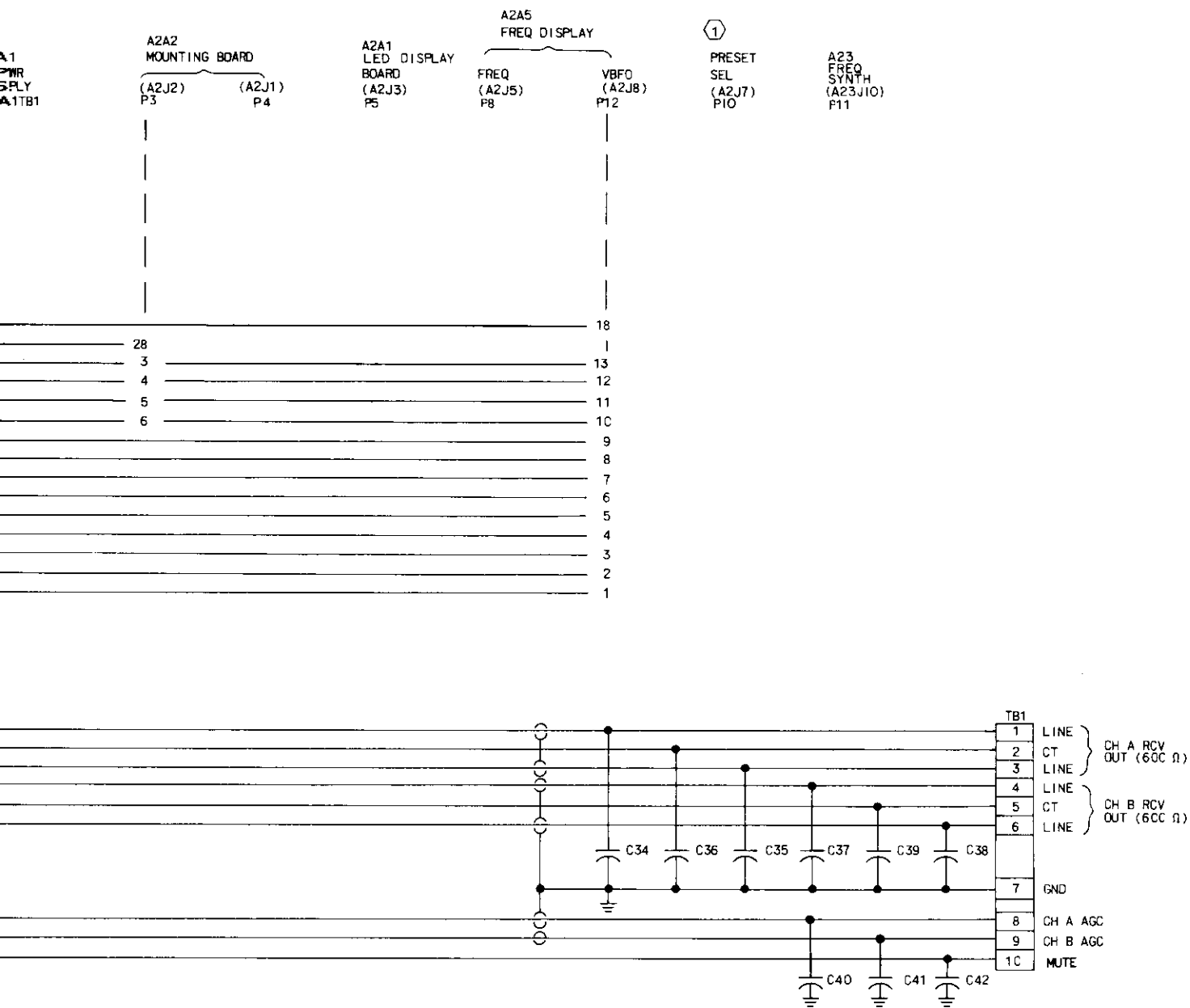




Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet 4)

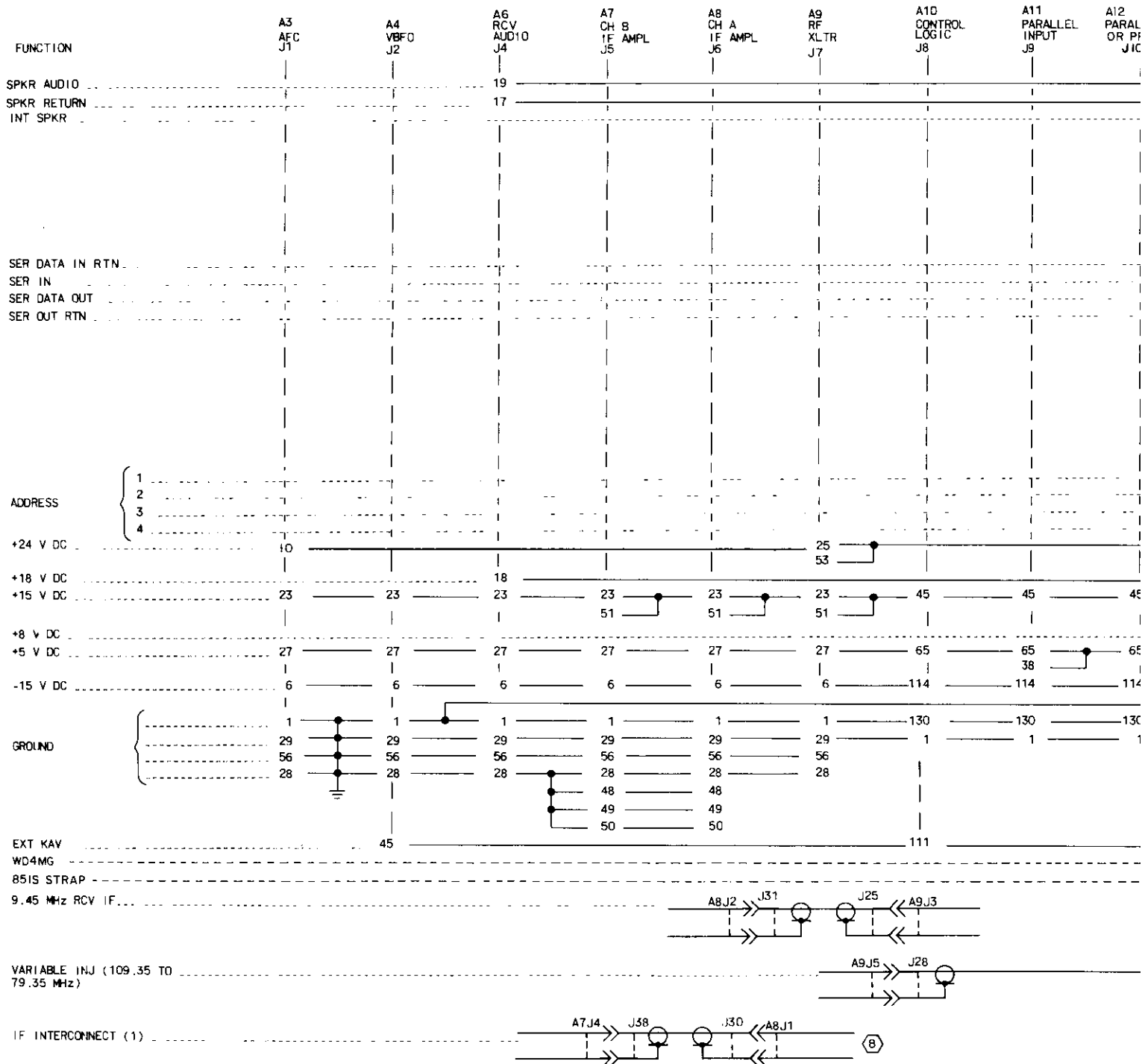


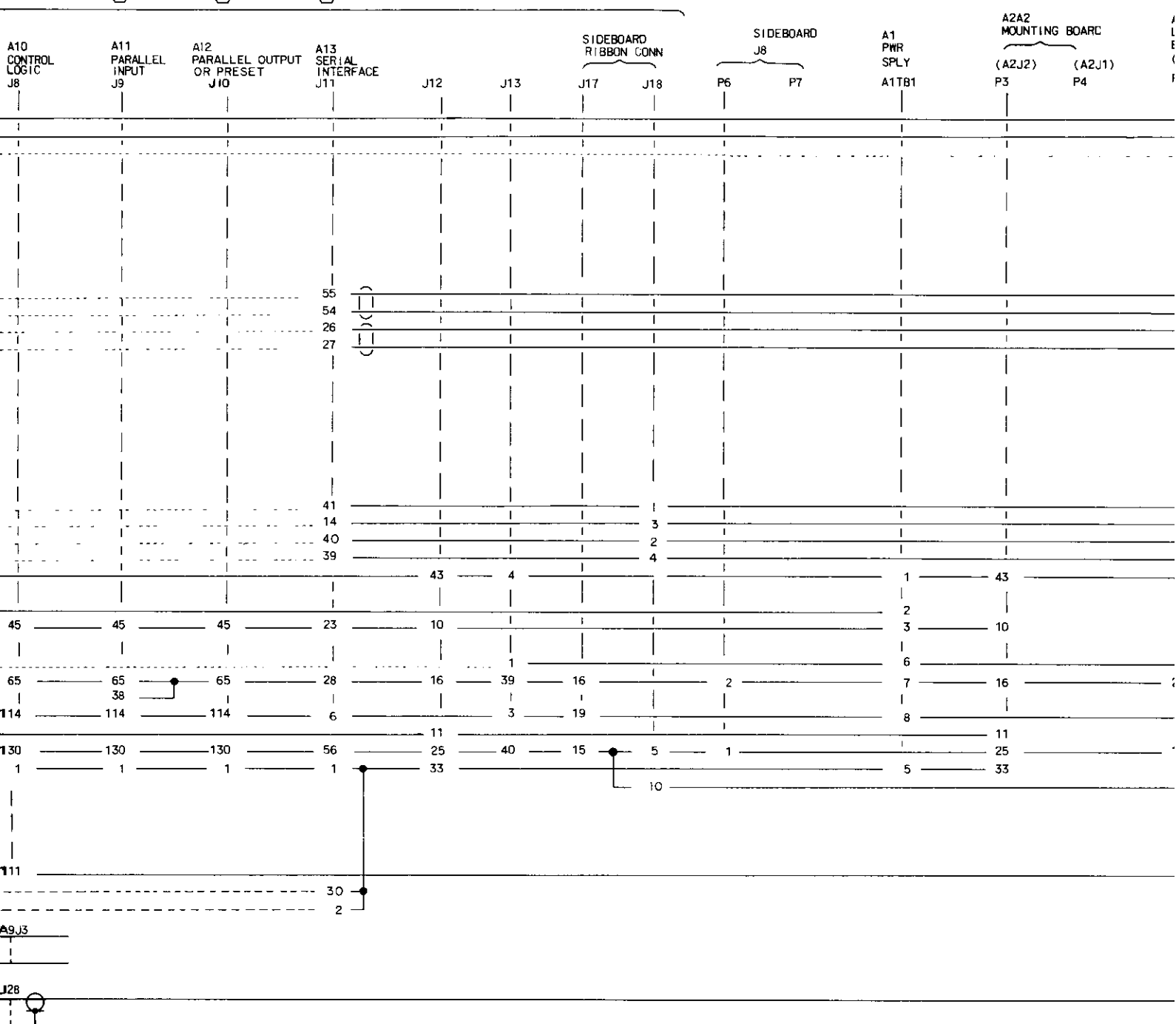


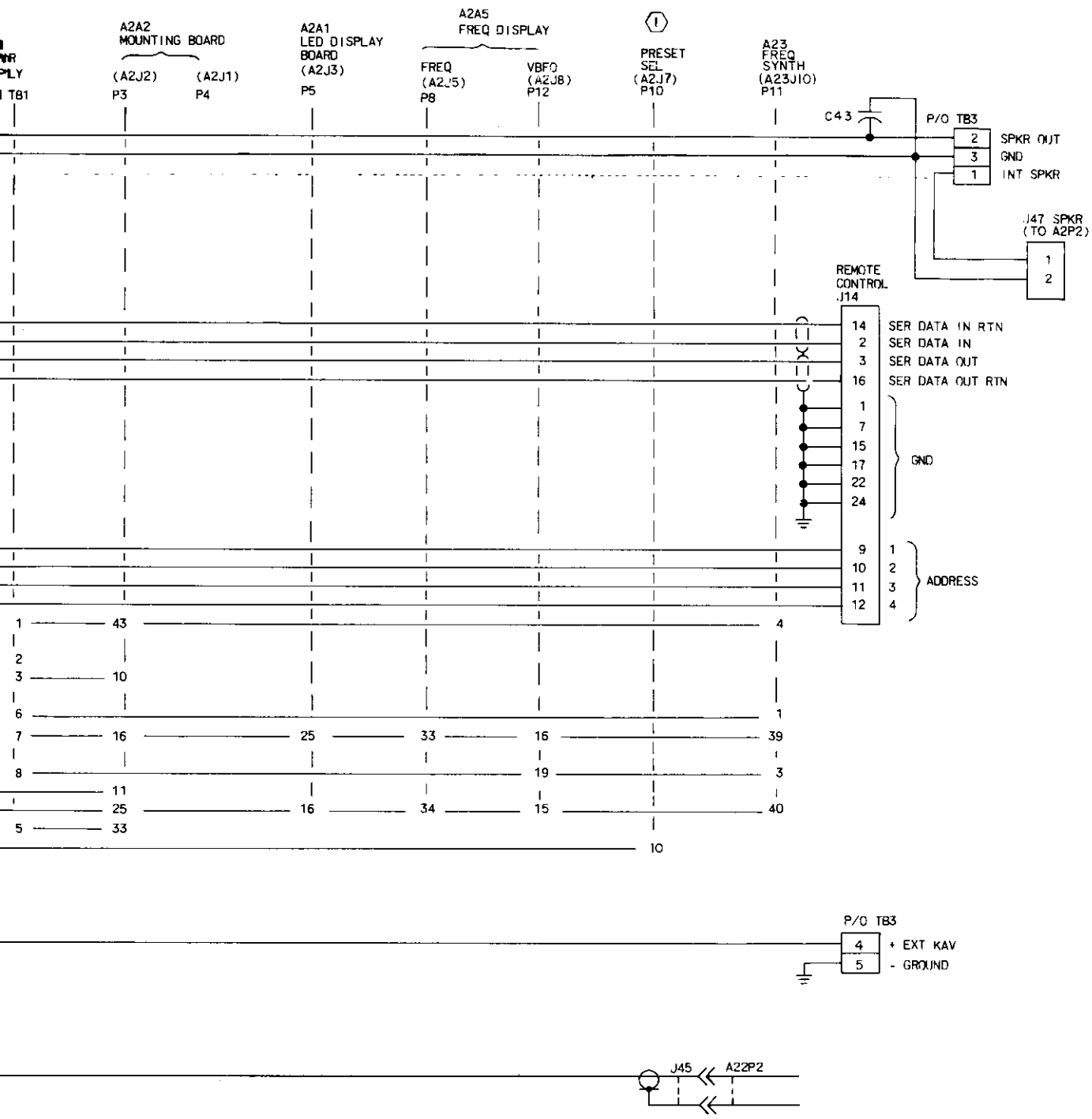


634-6718 SH 5

Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet 5)

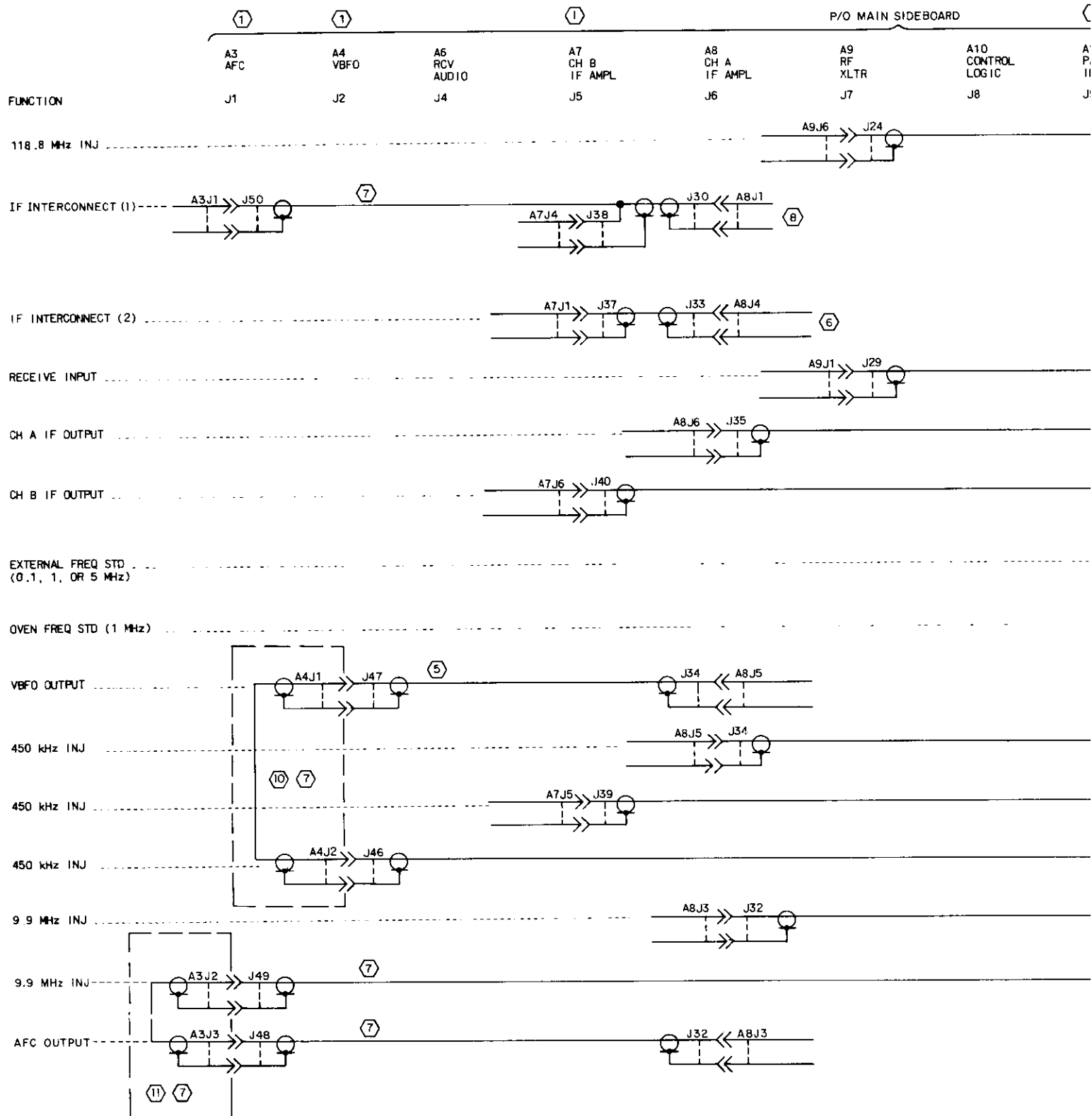






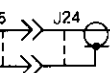
634-6718 SH 6

Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet 6)

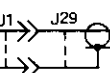


P/O MAIN SIDEBOARD

A9 RF XLTR	A10 CONTROL LOGIC	A11 PARALLEL INPUT	A12 PARALLEL OUTPUT OR PRESET	A13 SERIAL INTERFACE			SIDEBOARD RIBBON CONN		SIDEBOARD J8		A1 PWR SPLY	A2A2 MOUNTING BOARD	
J7	J8	J9	J10	J11	J12	J13	J17	J18	P6	P7	A1TB1	(A2J2)	(A2J1)
												P3	P4



6



6

(EXTERNAL FREQ STD OPTION ONLY)

(OVEN FREQ STD OPTION ONLY)

4

5

9

NOTES:

1

OPTIONAL

2

UNLESS OTHERWISE SPECIFIED, CAPACITANCE VALUES ARE 0.01 μ F INDUCTANCE VALUES ARE 100 μ H.

3



INDICATES SHIELDED PAIR



INDICATES SHIELDED WIRE

4

PART OF 622-4272-001 ONLY.

5

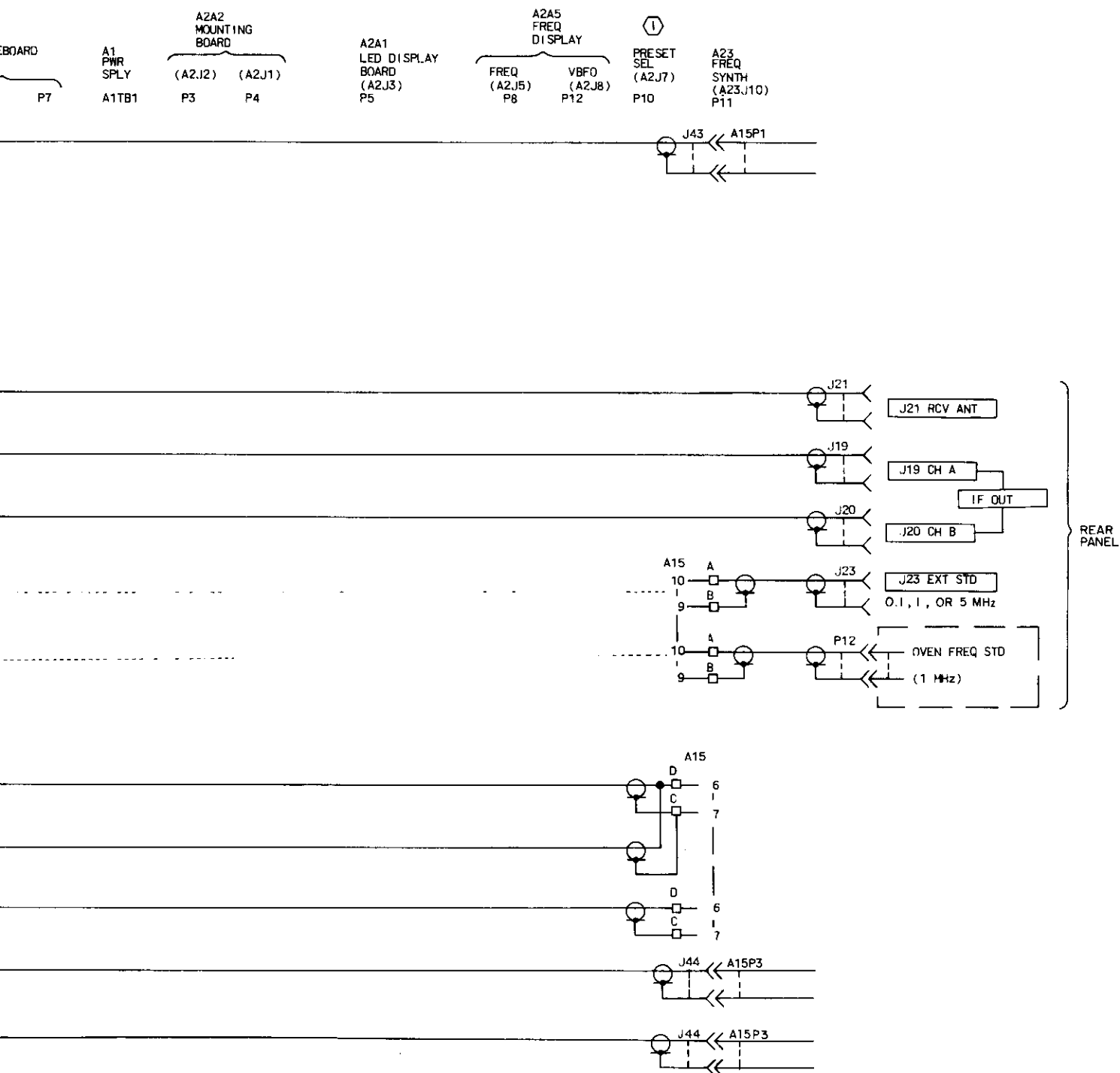
NOT INSTALLED IN 622-4272-001.

6

NOT INSTALLED IN 622-4272-001, -003, -004.

7

NOT INSTALLED IN 622-4272-001 THRU -006



-4272-001 ONLY.

ED IN 622-4272-001.

ED IN 622-4272-001, -003, -004.

ED IN 622-4272-001 THRU -006

8 PART OF 622-4272-002, -005, -006 ONLY.

9 PART OF 622-4272-001 THRU -006 ONLY.

10 JUMPER BRACKET ASSEMBLY 637-3796-001 SHOWN. IT IS INSTALLED IN -010 SERIES RECEIVERS IN THE A4 POSITION WHEN VBFO 638-6067-001 IS NOT.

11 JUMPER BRACKET ASSEMBLY 637-3796-001 SHOWN. IT IS INSTALLED IN -010 SERIES RECEIVERS IN THE A3 POSITION WHEN AFC 642-3224-001 IS NOT.

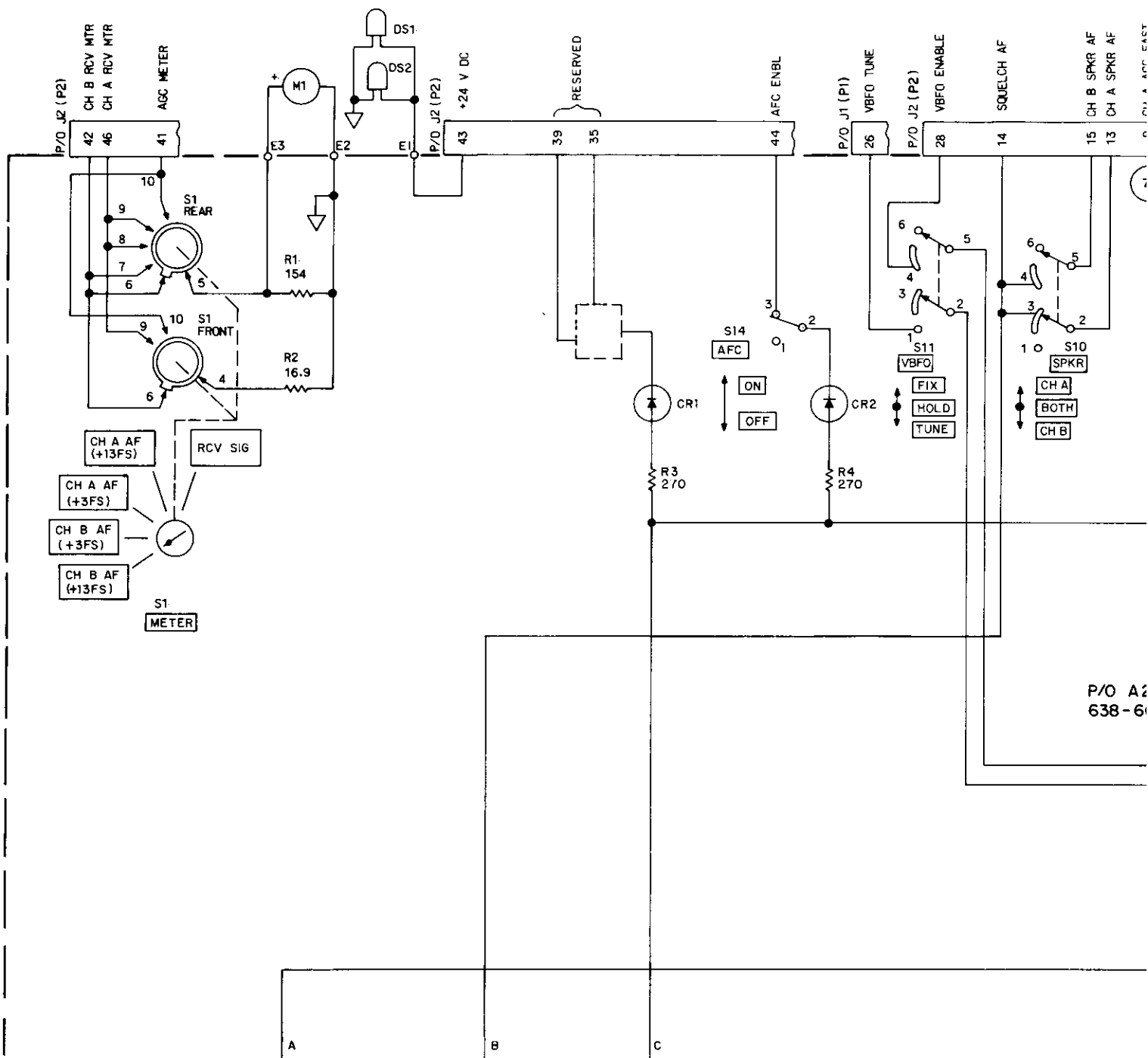
634-6718 SH 7

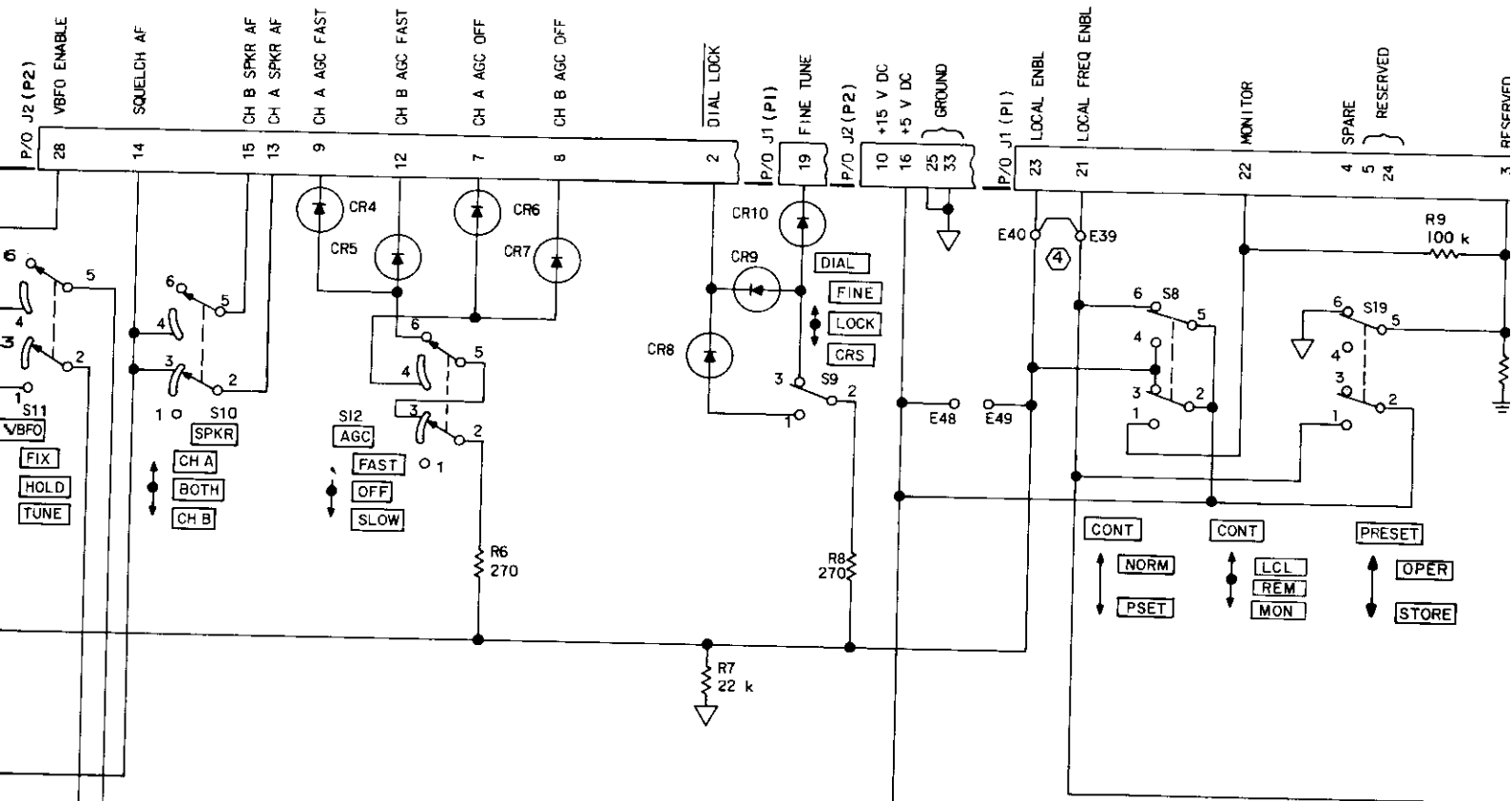
Chassis, Main Sideboard, and Ribbon Cabling, Schematic Diagram
Figure 1 (Sheet 7)

SCHEMATIC CHANGES

REVISION IDENTIFICATION	DESCRIPTION OF REVISION AND REASON FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY
	(This page will contain schematic revision information.)		

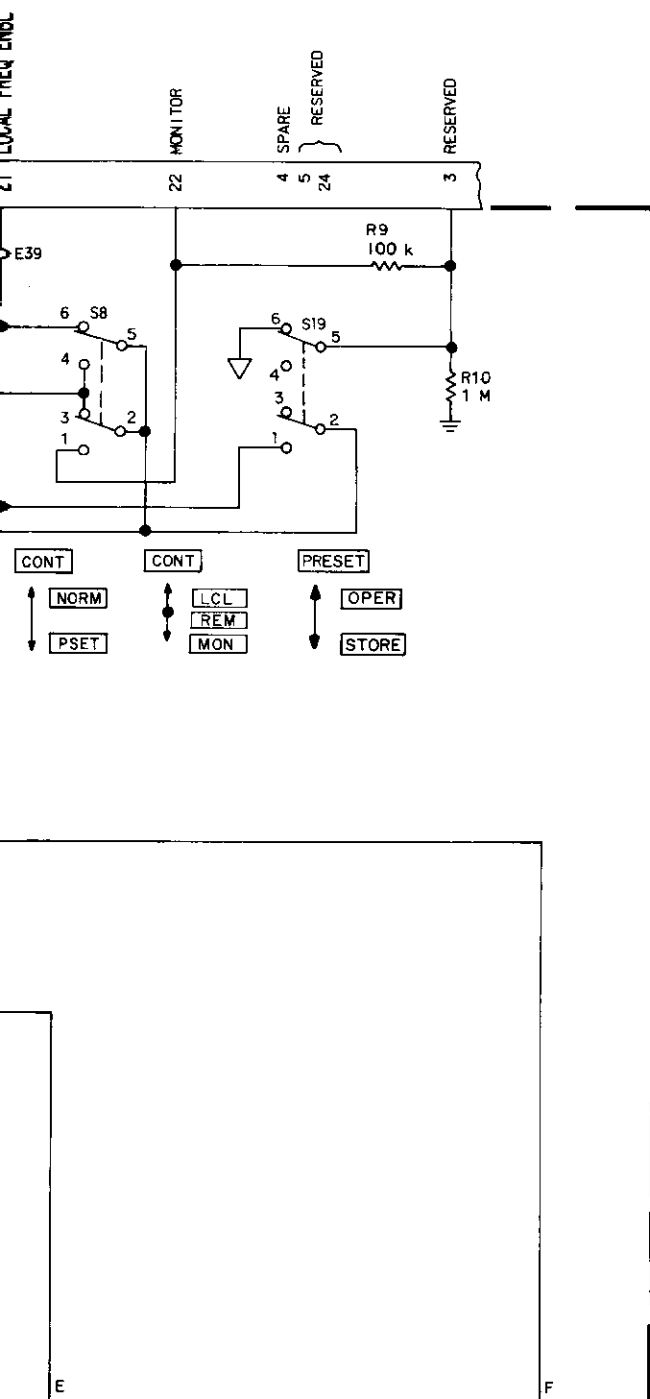
*Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet A)*





P/O A2A2 SWITCH MTG BOARD
638-6060-001/-002

D E

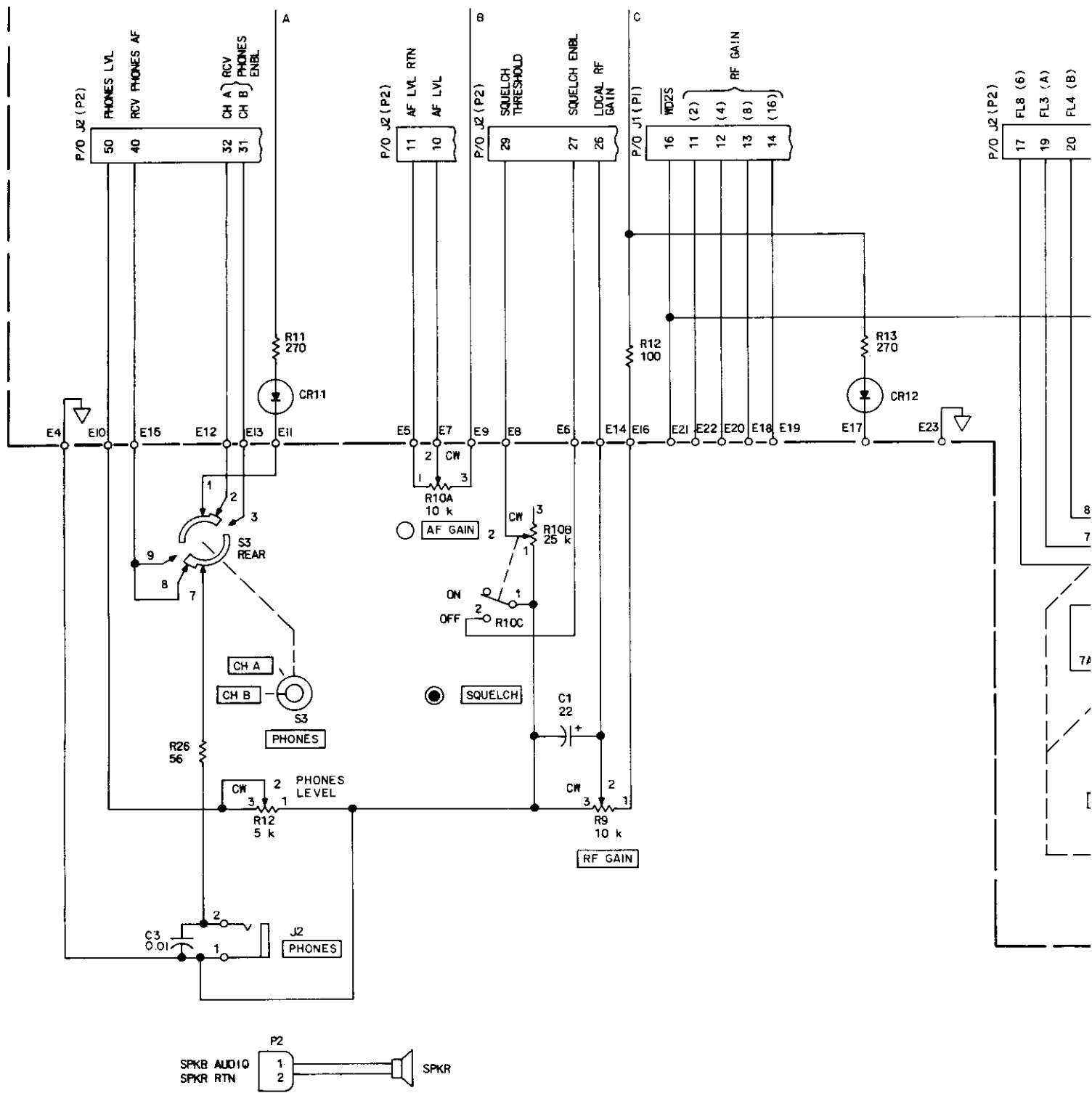


SWITCHES/ SUBASSEMBLIES USED		637-3758-()				
		-001	-002	-003	-004	-005
A1	635-0825-008	X	X	X		
	635-0825-010				X	X
A2	638-6060-001	X	X	X	X	
	638-6060-002					X
A4	638-6063-001	X	X	X	X	X
	637-1781-003		X			
A5	637-1781-004			X		
	637-1781-005	X				
	637-1781-009				X	X
S1	METER	X	X	X	X	X
S2	(RESERVED)					
S3	PHONES	X	X	X	X	X
S4	SSB/CW, AM, LSB	X	X	X	X	X
S5	(RESERVED)					
S6	16, A, B, USB, LSB, C, D, E	X	X	X	X	X
S7	(NOT USED)					
S8	CONT-LCL, REM, MON	X	X	X	X	
	CONT-NORM, PSET					X
S9	DIAL	X	X	X	X	X
S10	SPKR	X	X	X	X	X
S11	VBFO				X	X
S12	AGC				X	X
S13	OPTICAL TUN SW	X	X	X	X	X
S14	AFC				X	X
S15	PWR	X	X	X	X	X
S16	(RESERVED)	X	X			
S17	(RESERVED)					
S18	(RESERVED)					
S19	PRESET					X
S20	CHAN SELECT					X
S21	(RESERVED)					
S22	(RESERVED)					
S23	(RESERVED)					

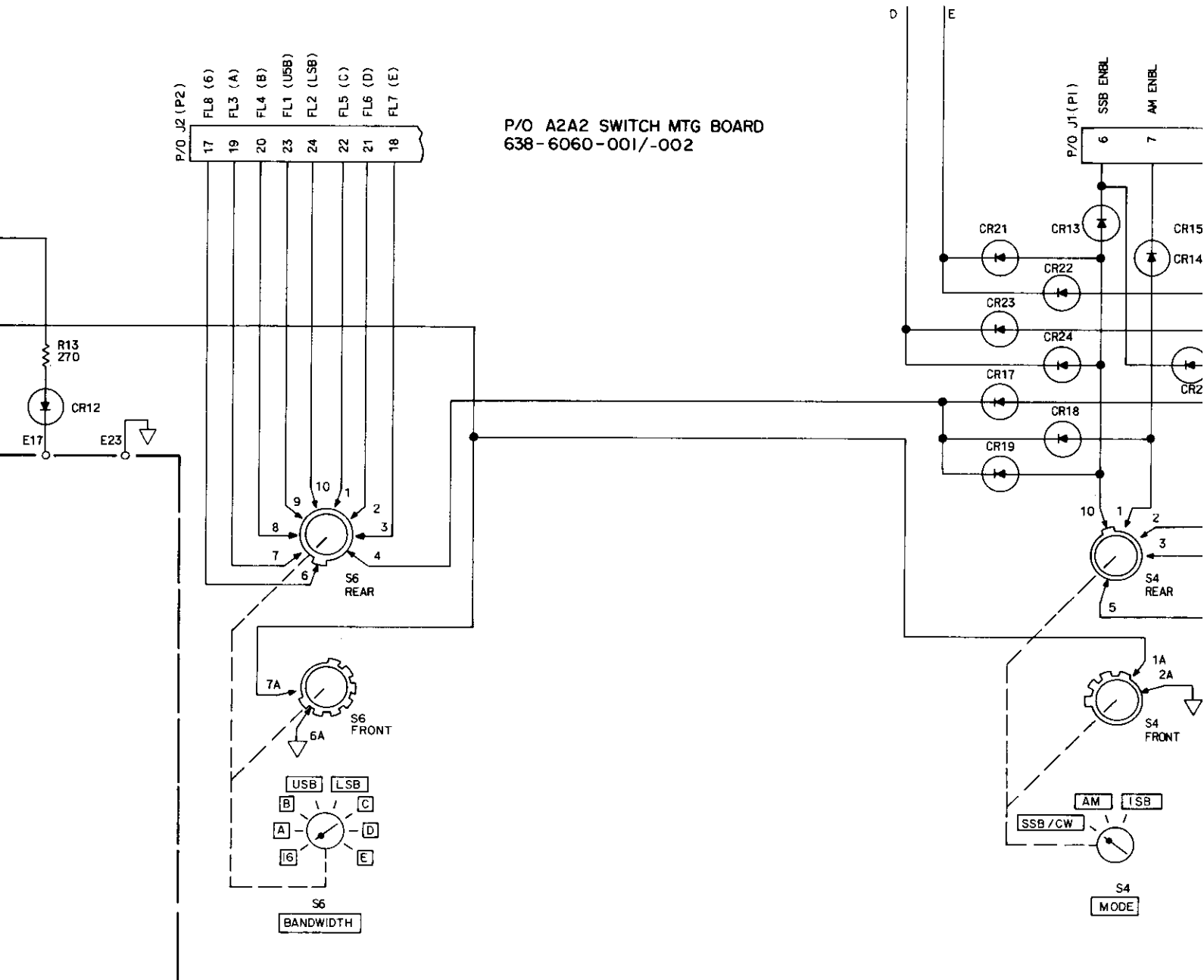
NOTE: SWITCHES S1, S2, S4, S5, S6, S8, S9, S10, S11, S12, S14, AND S19 ARE MOUNTED ON A2A2 AT NEXT HIGHER ASSEMBLY 637-3758-XXX.

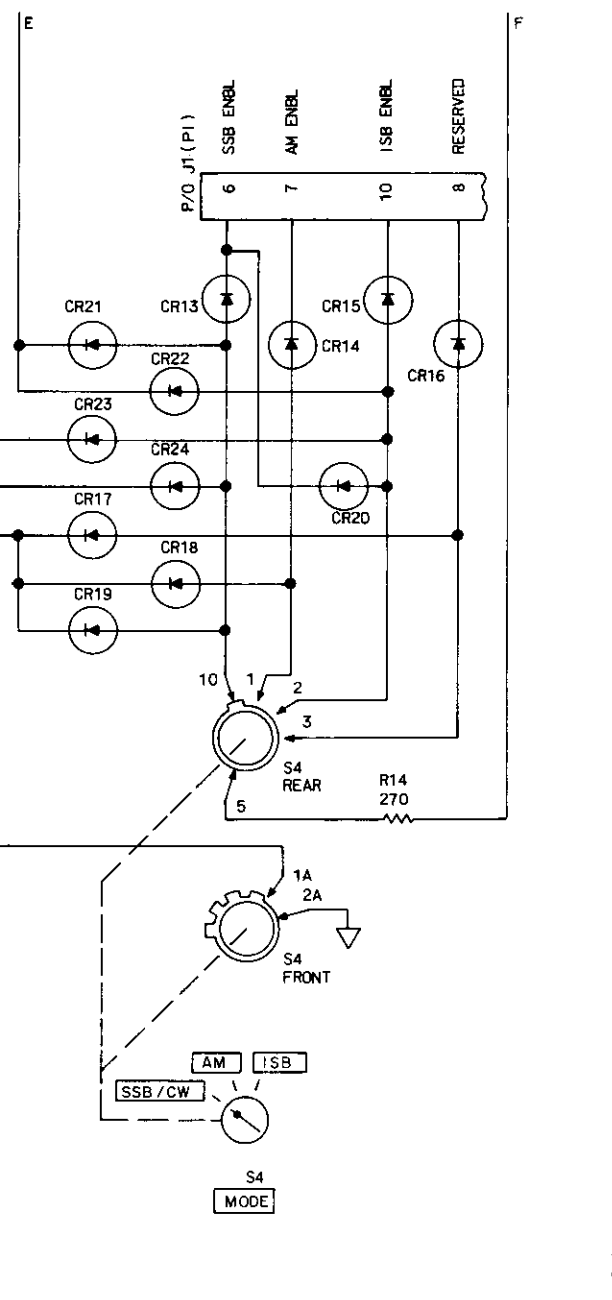
634-6877
TPA-0624-046 SH I

Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet 1 of 7)



P/O A2A2 SWITCH MTG BOARD
638-6060-001/-002



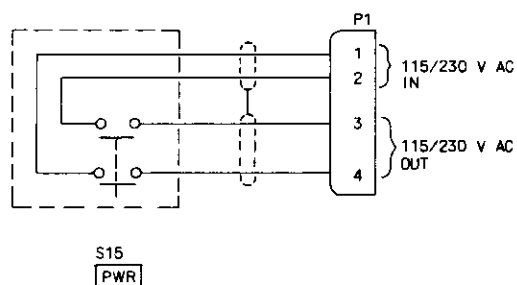


NOTES:

- ① ALL ROTARY SWITCHES SHOWN POSITIONED AT CCW STOP.
- ② UNLESS OTHERWISE SPECIFIED, RESISTANCE VALUES ARE IN OHMS,
AND CAPACITANCE VALUES ARE IN MICROFARADS.
- ③ DIODES ARE TYPE 1N4454.
- ④ JUMPER BETWEEN E39 AND E40 IS REMOVED FROM
638-6060-002 SWITCH MTG BOARD (PRESET SWITCH
S19 INSTALLED).

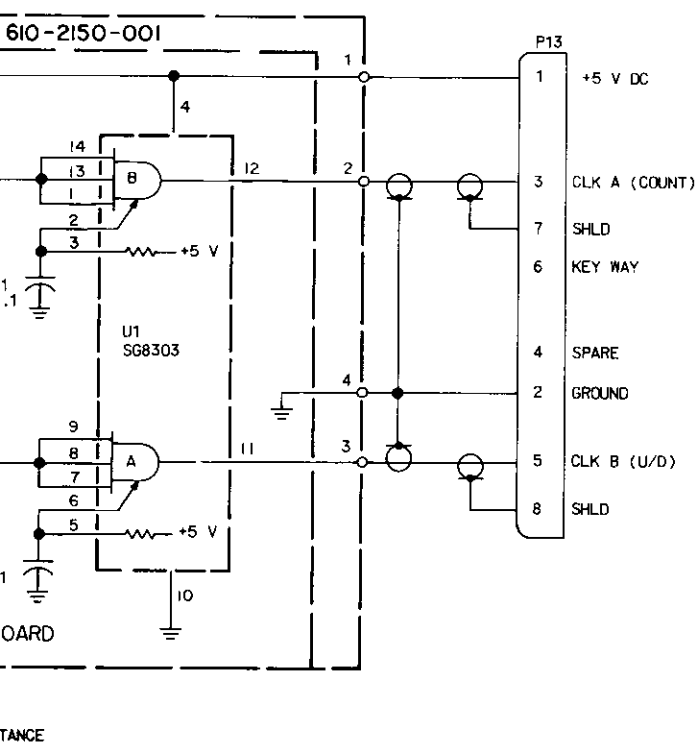
MATES WITH SIDBOARD CABLE CONN P3		MATES WITH SIDBOARD CABLE CONN P4	
50	2	26	2
49 J2	1	25 J1	1

CONNECTOR PIN NUMBERING AS VIEWED FROM
FRONT (PANEL) SIDE OF BOARD.



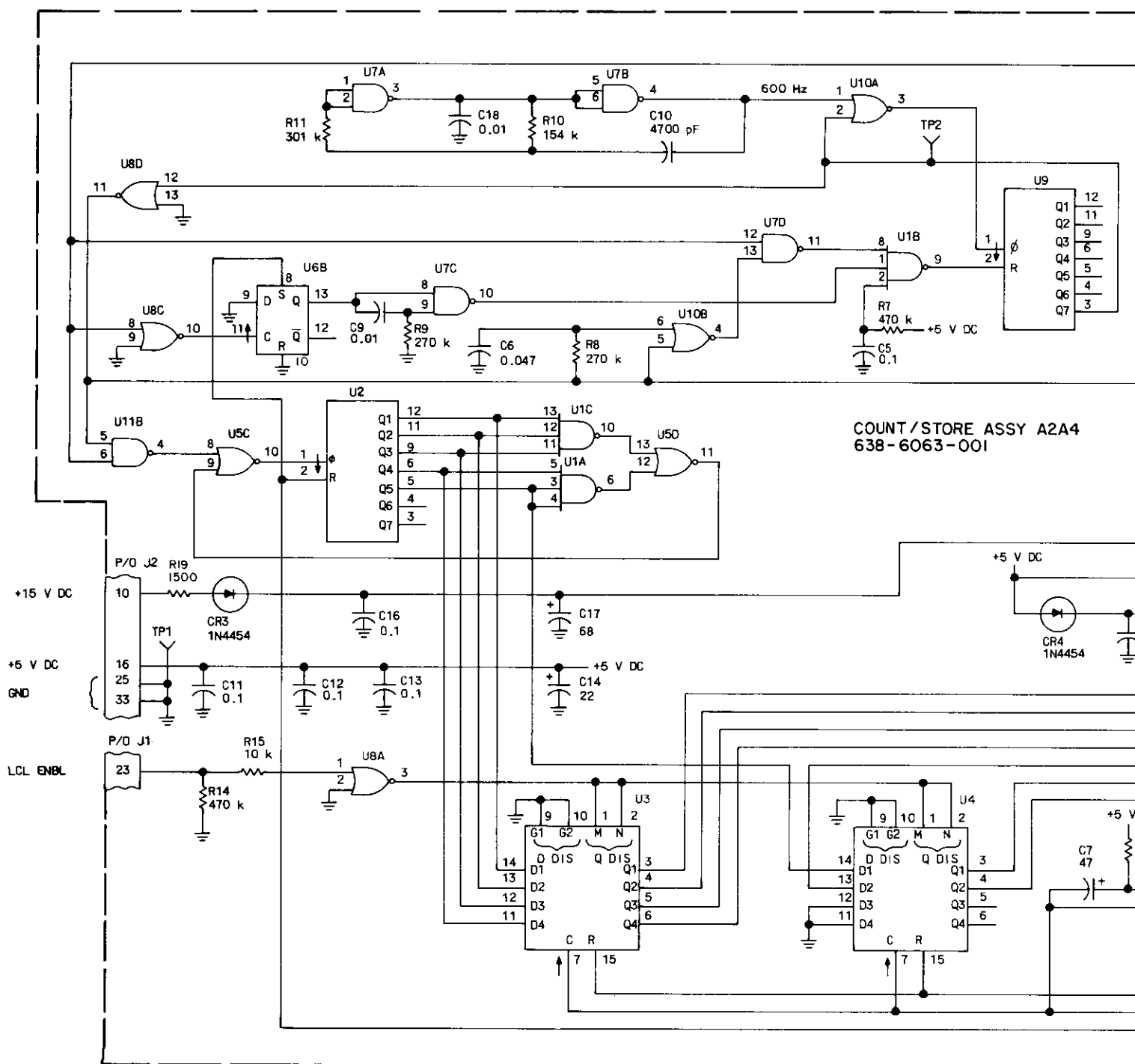
634-6877
TPA-0624 - 046 SH 2

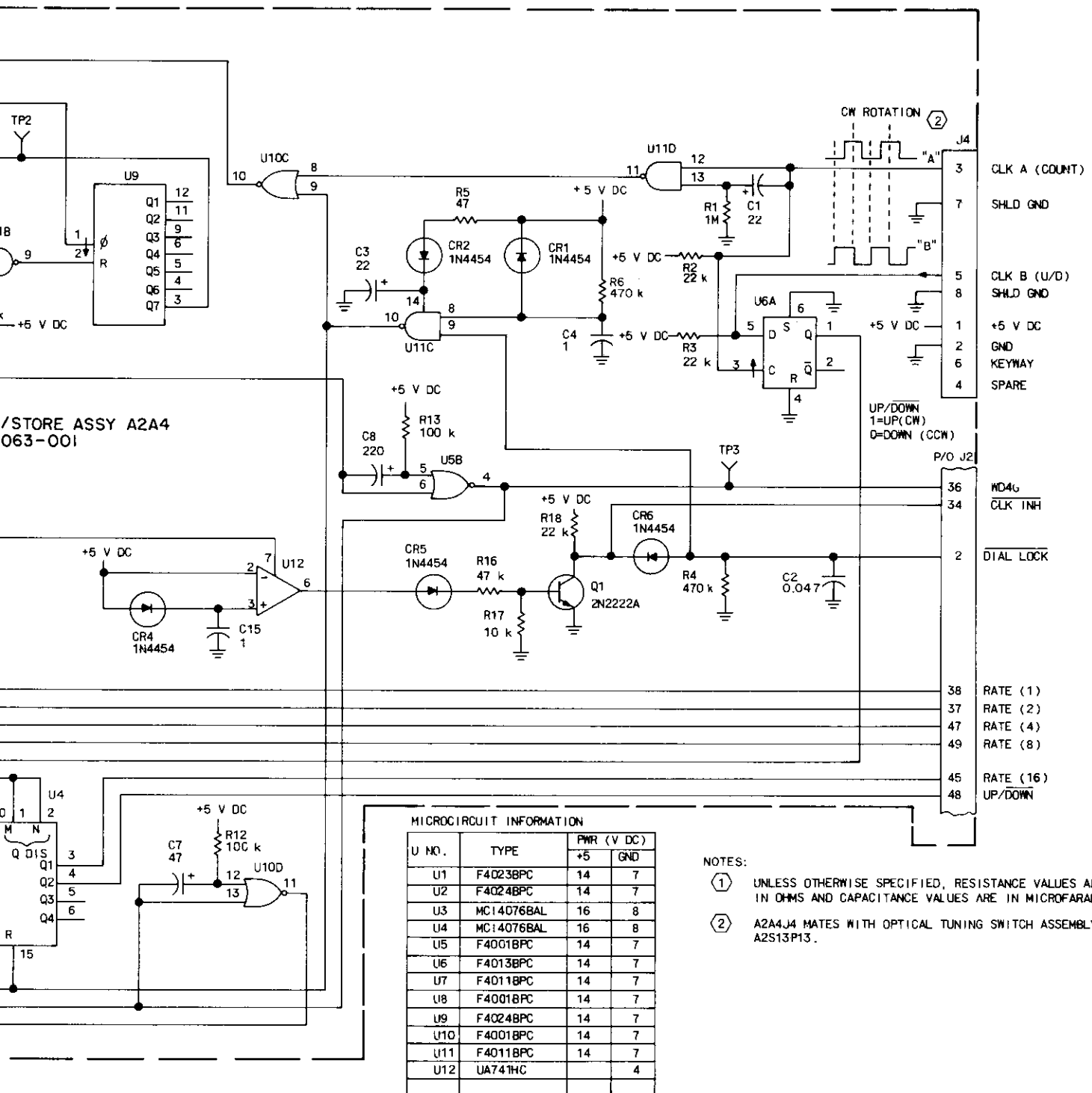
Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet 2)



634-6877
TPA-0624-046 SH 3

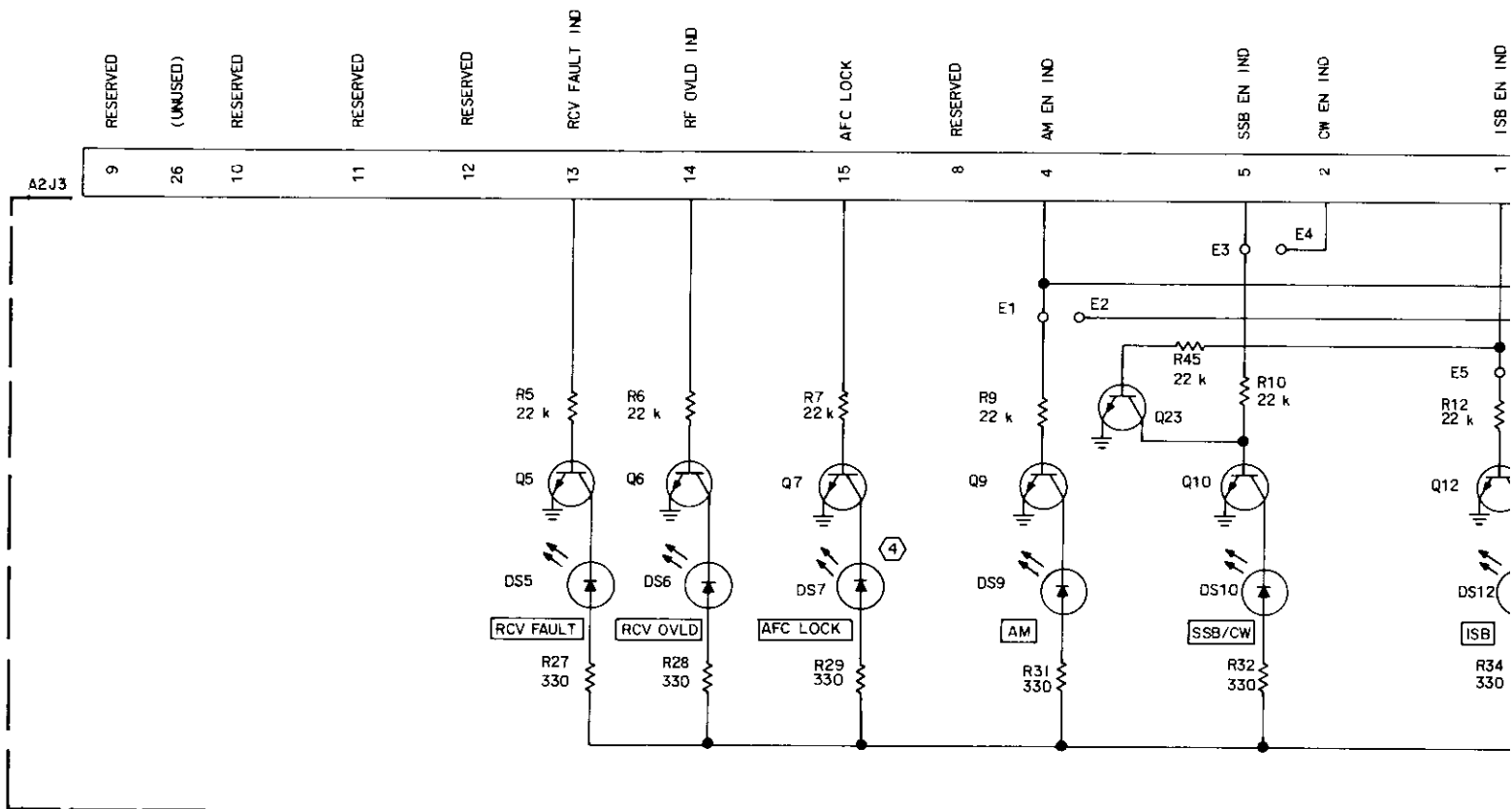
Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet 3)





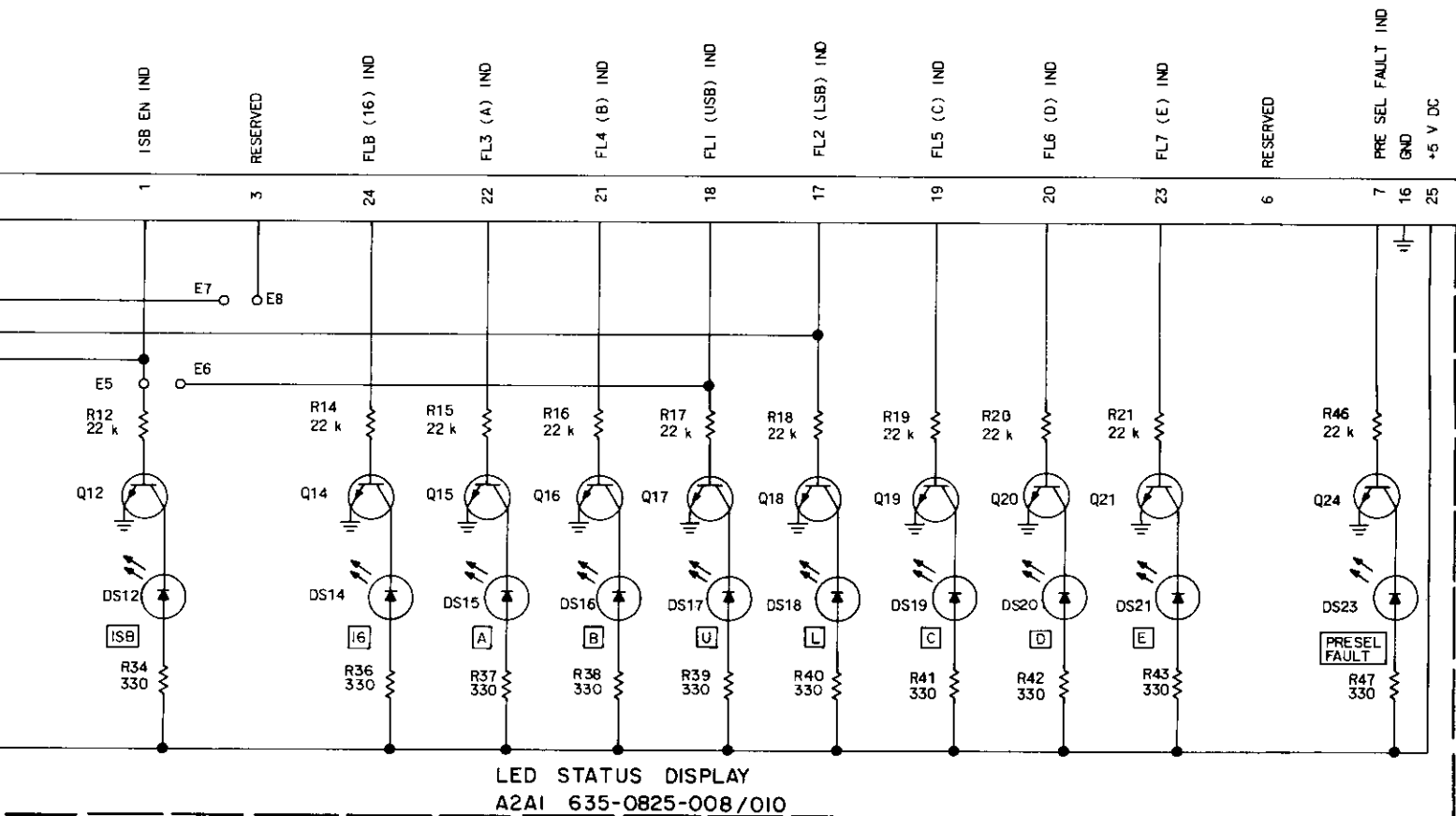
634-6877
TPA-0624-046 SH 4

Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet 4)



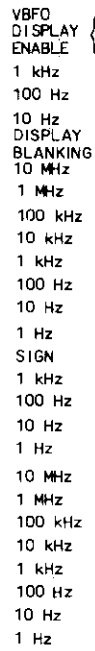
NOTES:

- (1) TRANSISTORS ARE TYPE 2N2222A.
DS5, DS6, AND DS23 ARE TYPE HP5082-4684 (RED) LED.
DS9, DS10, DS12, AND DS14 THRU DS21 ARE TYPE HP5082-4584 (YELLOW) LED.
- (2) UNLESS OTHERWISE SPECIFIED; RESISTANCE VALUES ARE IN OHMS.
- (3) PARTIAL REFERENCE DESIGNATIONS ARE SHOWN; FOR COMPLETE DESIGNATION, PREFIX WITH UNIT NUMBER AND/OR ASSEMBLY DESIGNATION.
- (4) USED ONLY IN 635-0825-010.

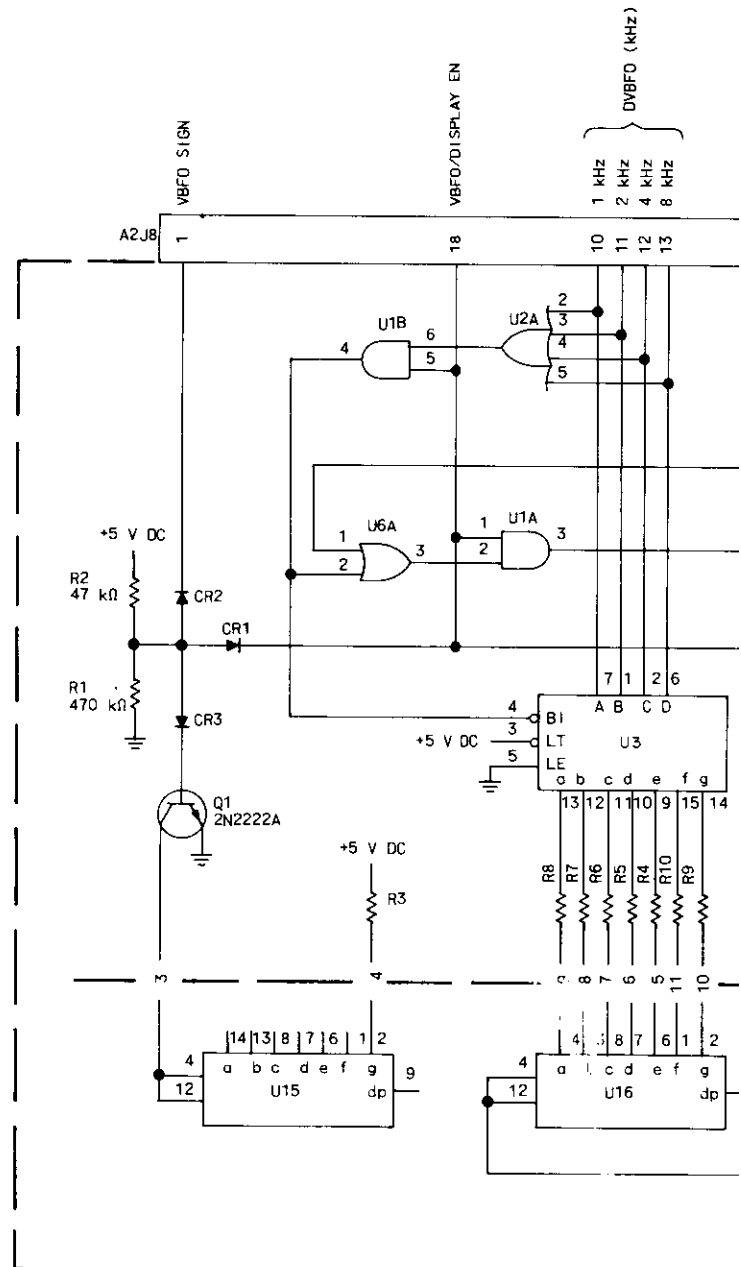


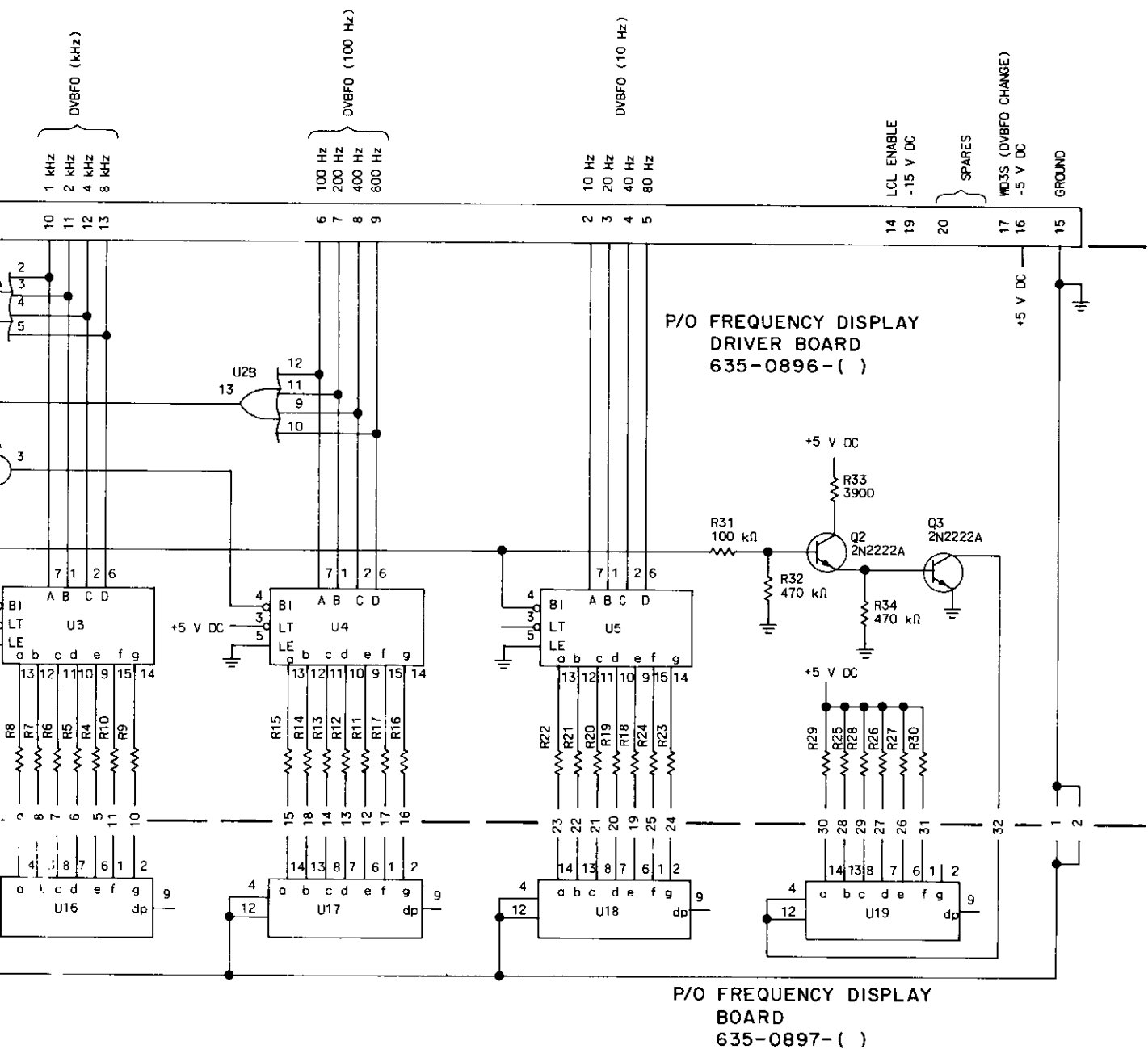
634-6877
TPA-0624-046 SH 5

Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet 5)



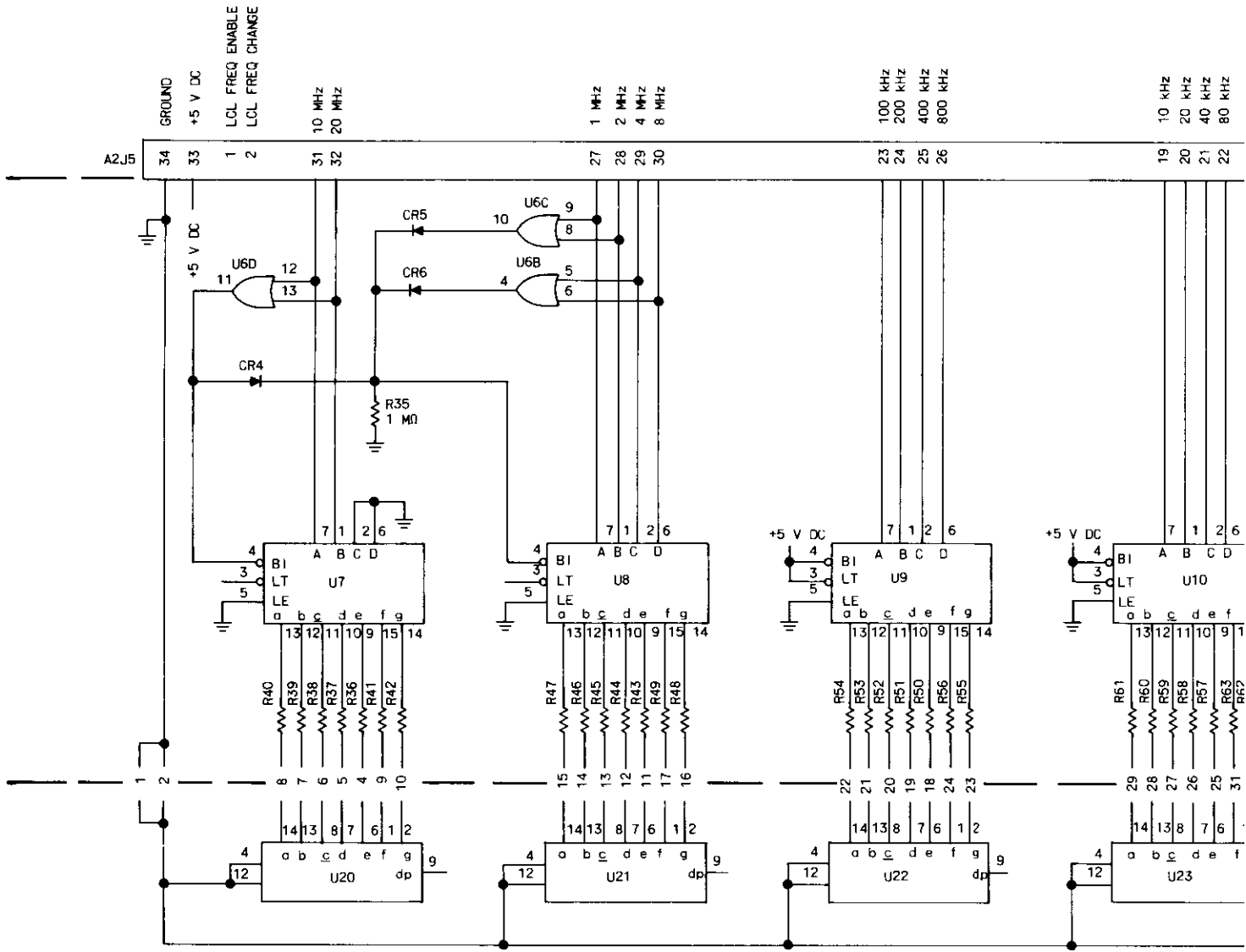
CIRCUIT	637-1781-()		
	-003	-005	-009
U1	X	X	X
U2	X	X	X
U3	X	X	X
U4	X	X	X
U5	X	X	X
U6	X	X	X
U7	X	X	X
U8	X	X	X
U9	X	X	X
U10	X	X	X
U11	X	X	X
U12	X	X	X
U13	X	X	X
U14	X	X	X
U15	X		X
U16	X		X
U17	X		X
U18	X		X
U19	X		X
U20	X	X	X
U21	X	X	X
U22	X	X	X
U23	X	X	X
U24	X	X	X
U25	X	X	X
U26	X		X
U27			X

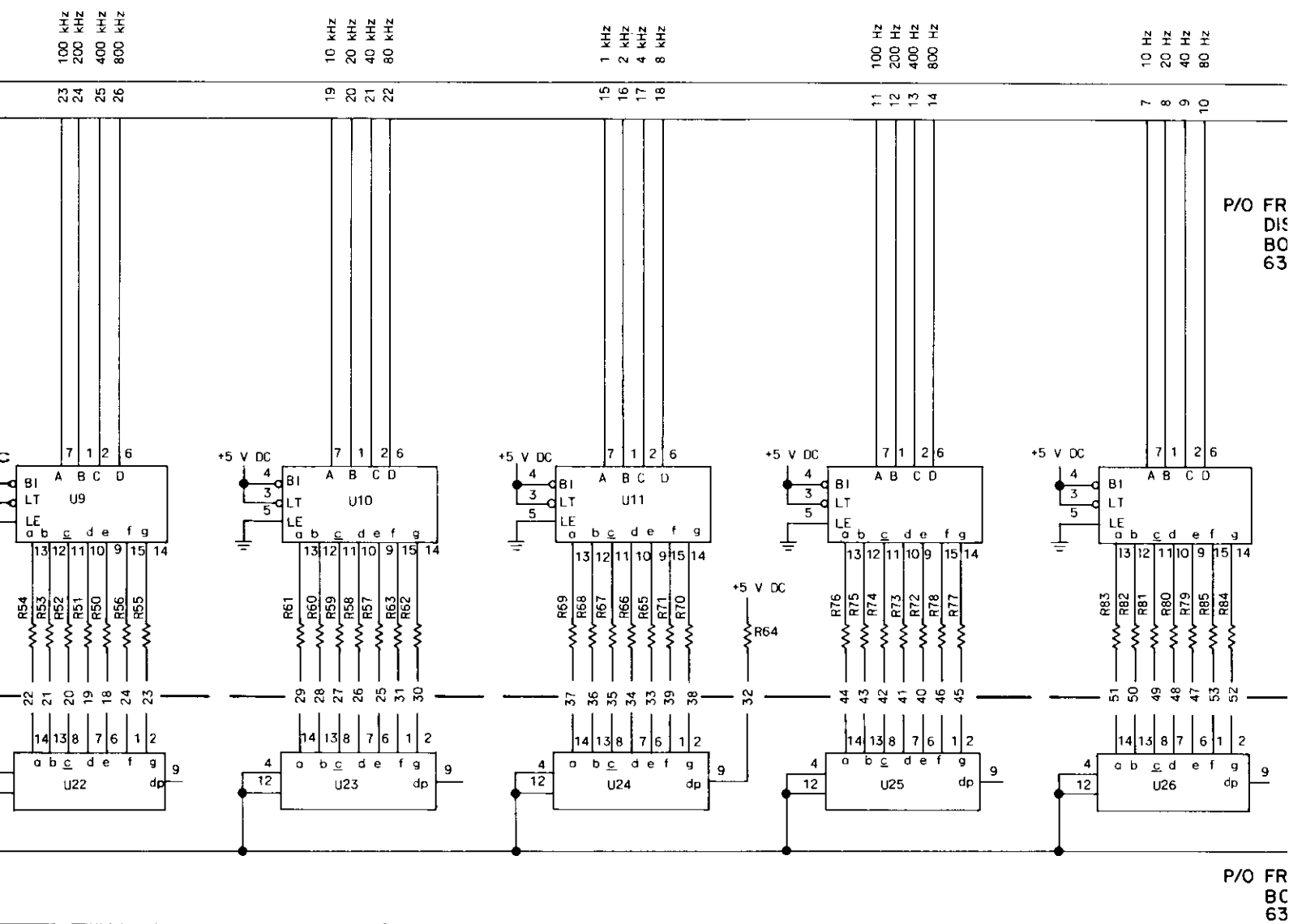


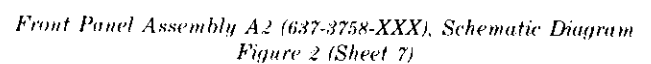


634-6877 TPA-0624-046 SH 6

Front Panel Assembly A2 (637-3758-XXX), Schematic Diagram
Figure 2 (Sheet 6)



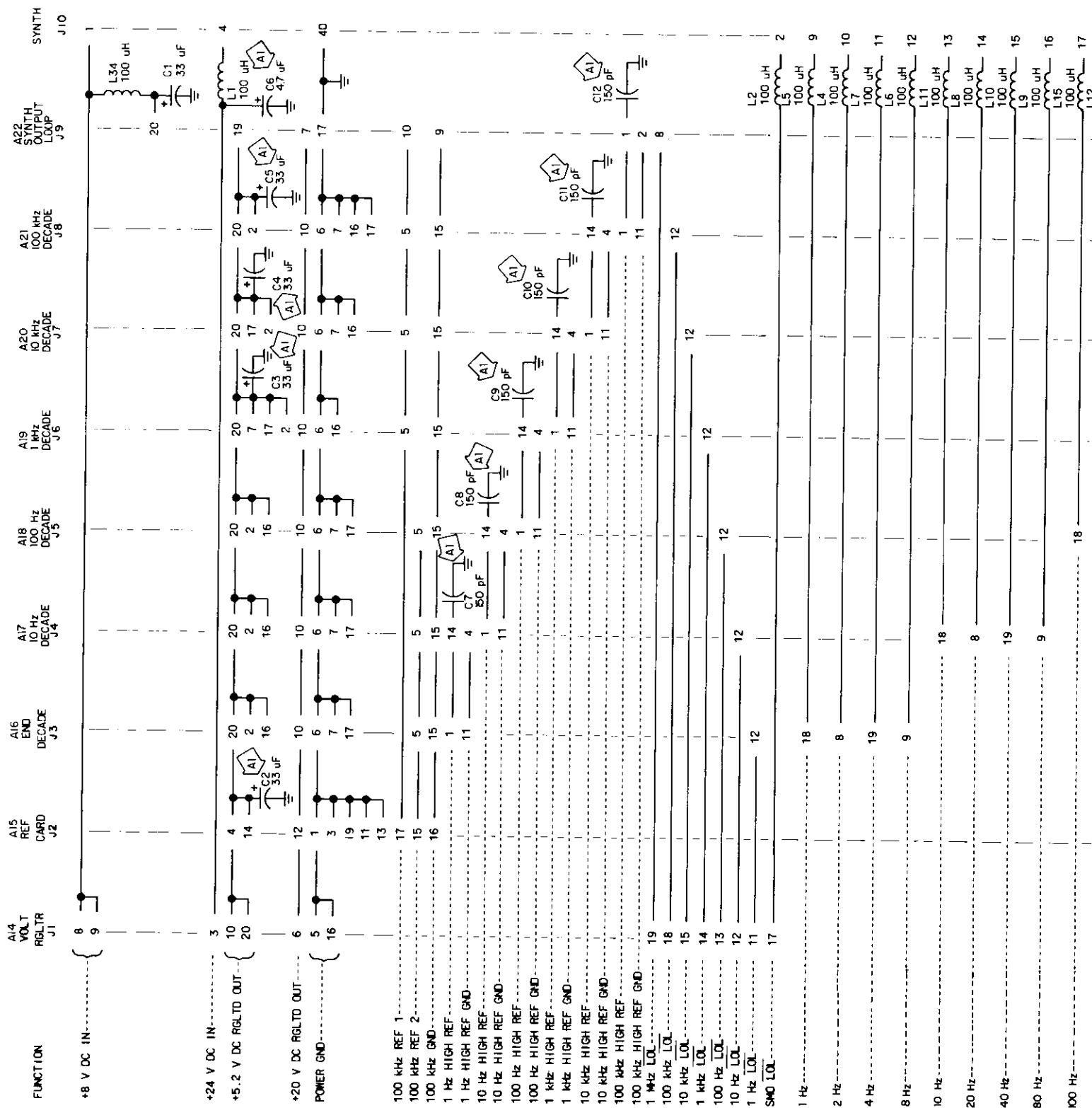


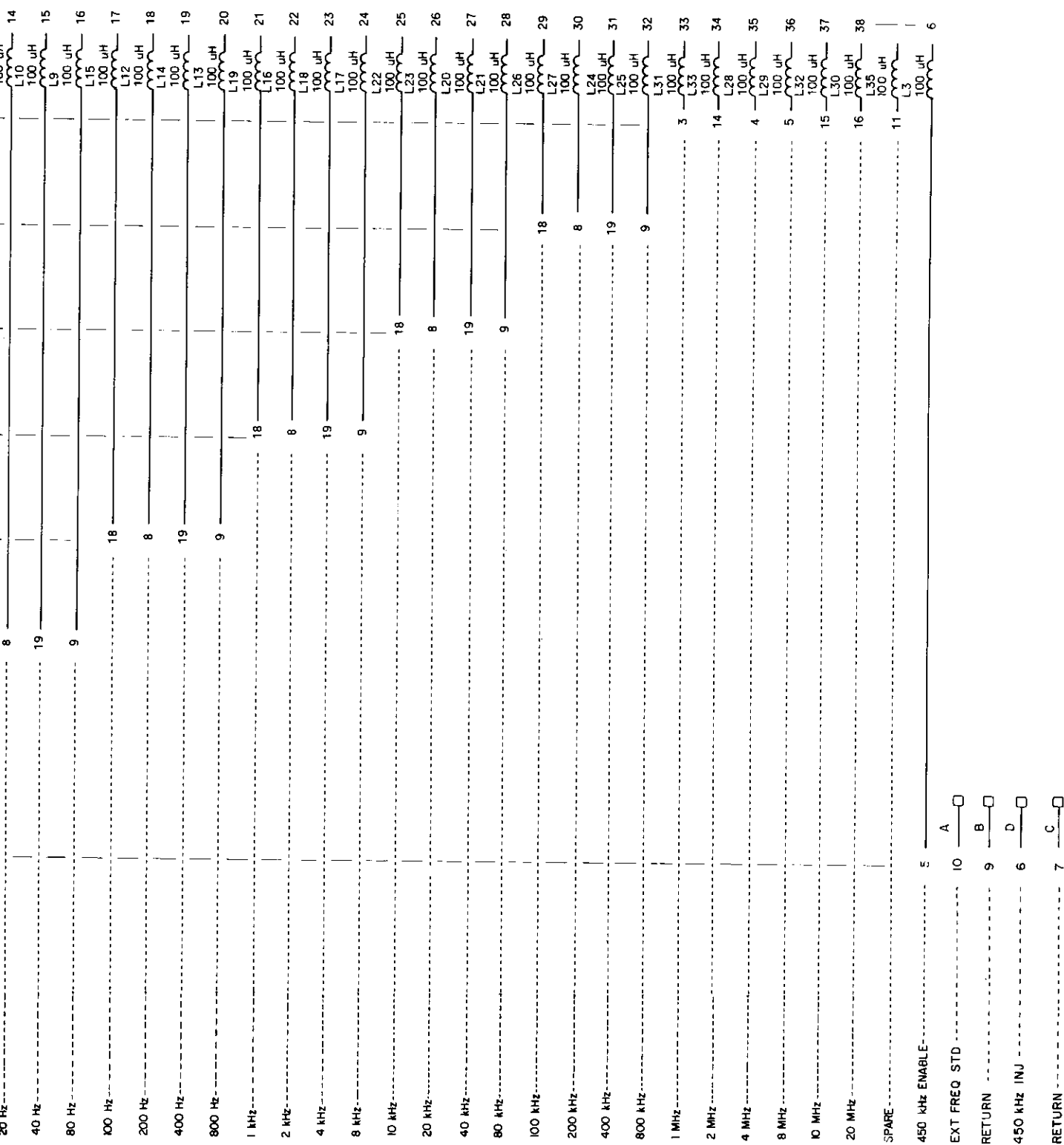


SCHEMATIC CHANGES

REVISION IDENTIFICATION	DESCRIPTION OF REVISION AND REASON FOR CHANGE	SERVICE BULLETIN	EFFECTIVITY
A1	<p>Added:</p> <p>C2, 33 μF C3, 33 μF C4, 33 μF C5, 33 μF C6, 4.7 μF C7, 150 pF C8, 150 pF C9, 150 pF C10, 150 pF C11, 150 pF C12, 150 pF</p>		REV G and above

*Synthesizer Sideboard A23A1 (635-0696-001), Schematic Diagram
Figure 3 (Sheet A)*

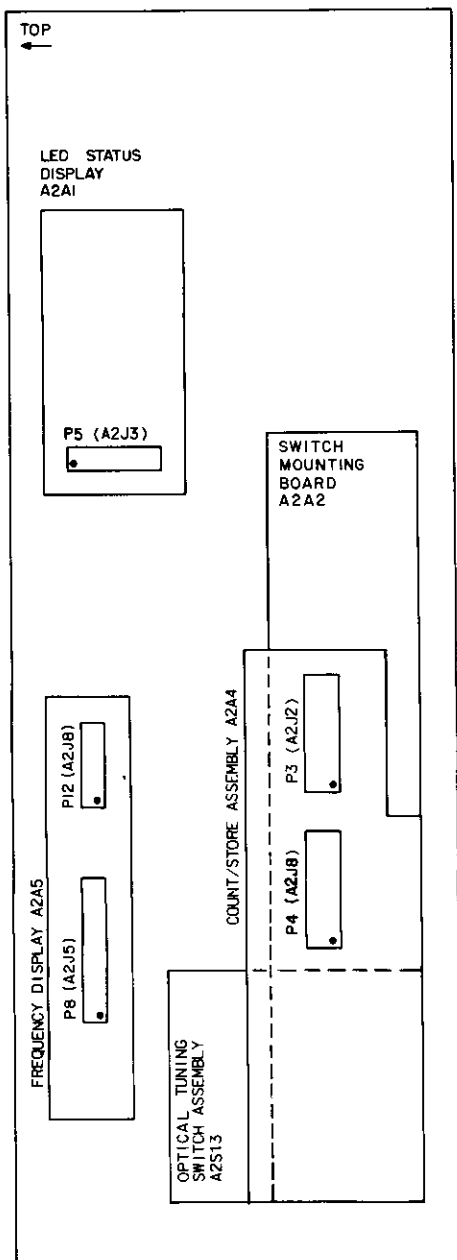




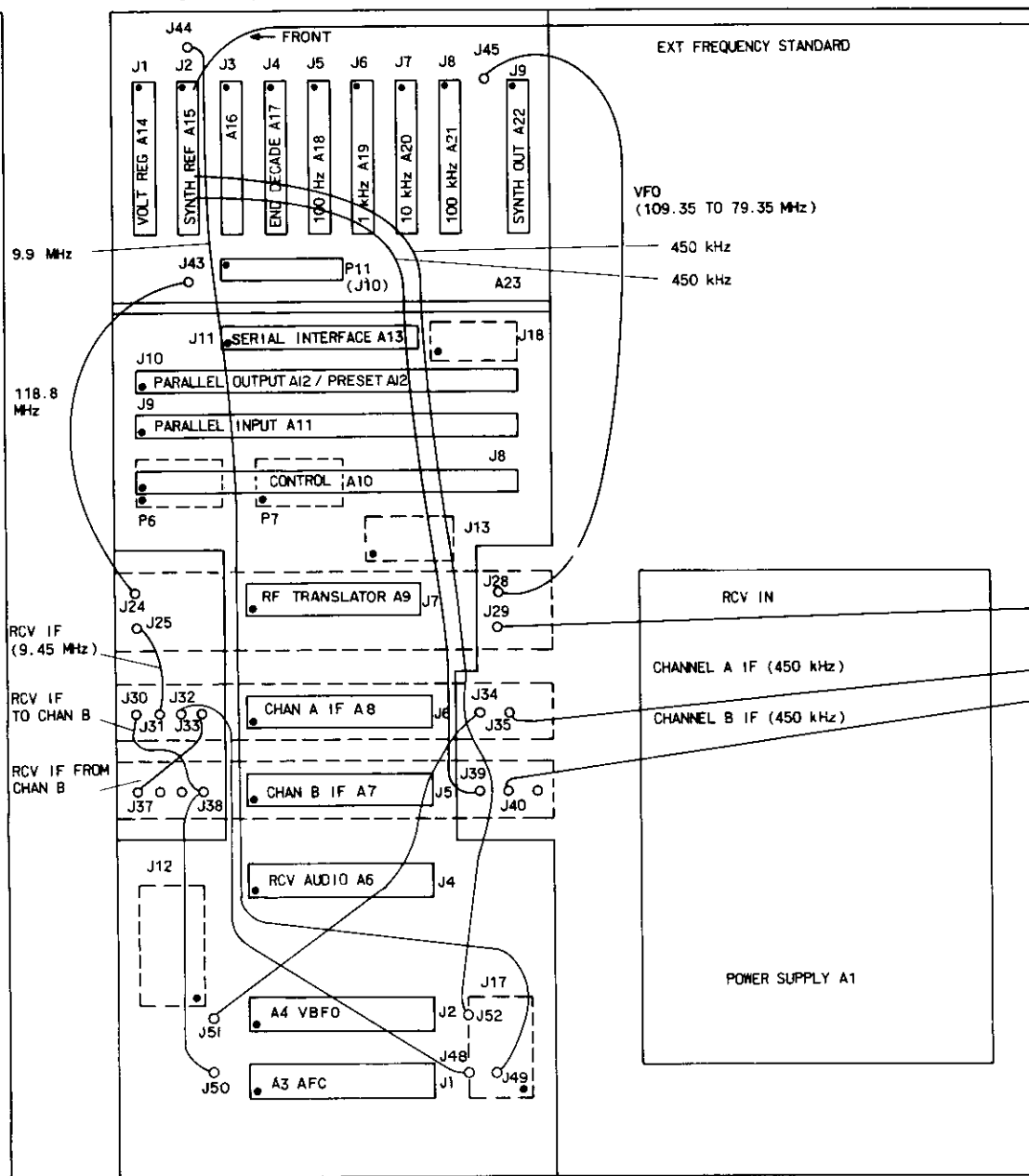
635-0425
TP4-6936-014

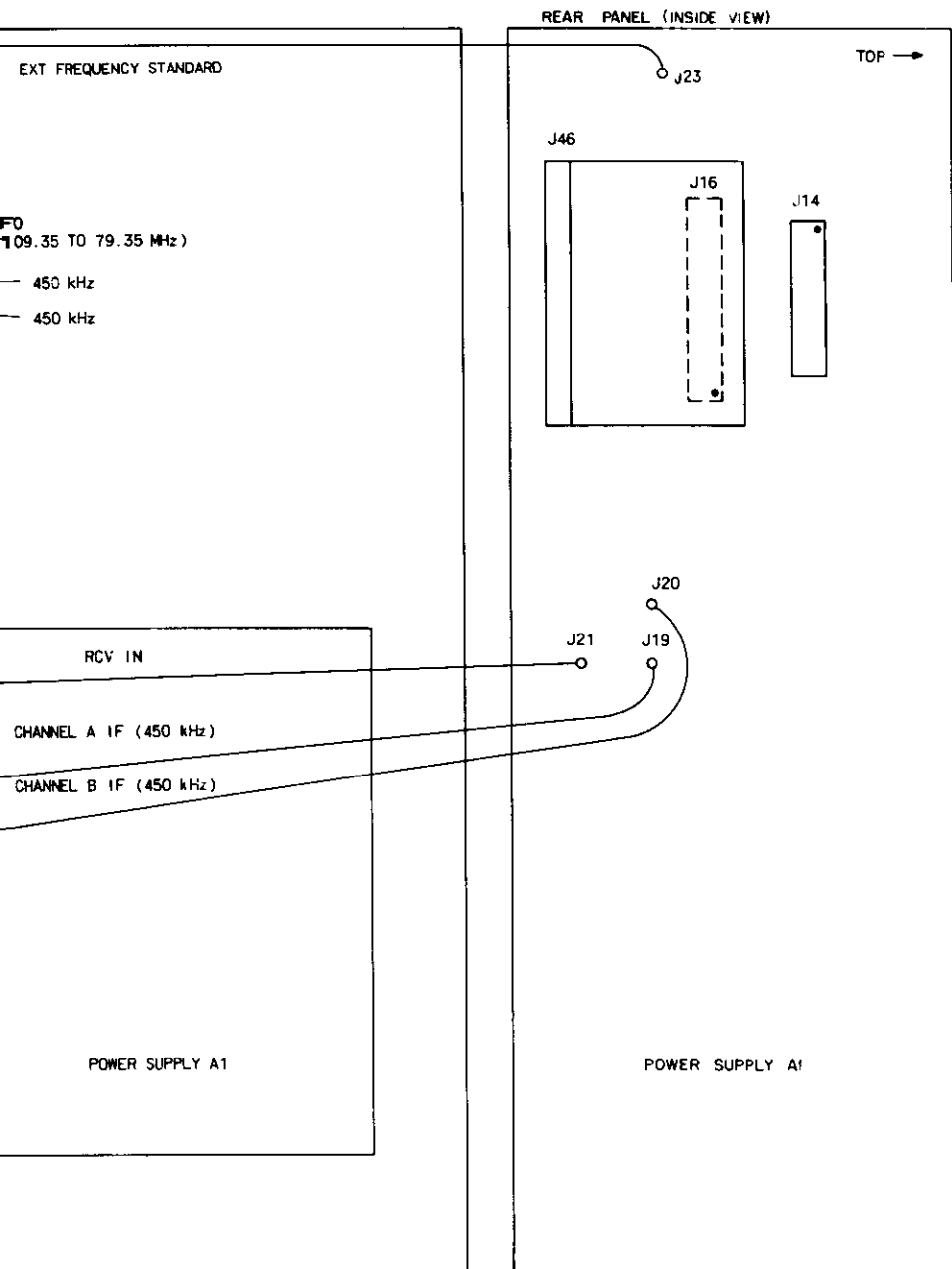
Synthesizer Sideboard A23A1 (635-0696-001), Schematic Diagram
Figure 3

FRONT PANEL A2 (INSIDE VIEW)

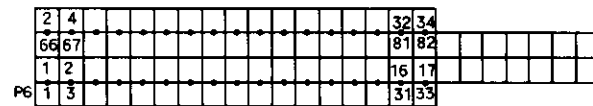


CHASSIS (TOP VIEW)

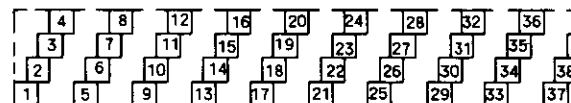
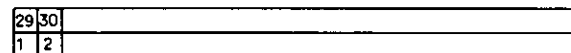




ALL CONNECTORS NUMBERED AS VIEWED FROM



J1, J2, J4, J5, J6, J7 AND J11 PIN NUMBERING



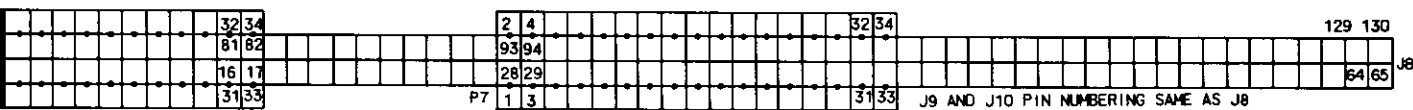
SUBMINIAX COAXIAL INTERCONNECTS	
J19 TO J35	X
J20 TO J40	X
J21 TO J29	X
J24 TO J43	X
J25 TO J31	
J28 TO J45	X
J30 TO J38 TO J50	X
J49 TO J44	X
J33 TO J37	X
J34 TO J51	X
J39 TO A23J2-C-D	X
J52 TO A23J2-C-D	X
J23 TO A23J2-A-B	(1)
J32 TO J48	X
RIBBON CABLE INTERCONNECTS	
J12-P3-P5-P4-P6	X
P11-J13-P2	X
P7-J46	X

(1) USED WITH EXTERNAL FREQUENCY STANDARD OPTION ONLY.

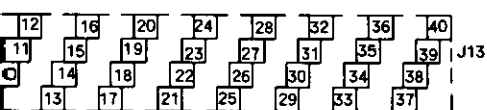
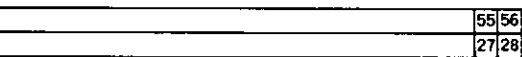
A2J3

2	4	24	26
1	3	23	25

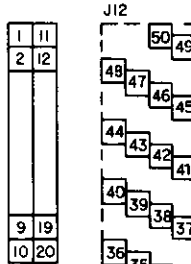
ALL CONNECTORS NUMBERED AS VIEWED FROM CHASSIS (TOP VIEW)



J6, J7 AND J11 PIN NUMBERING



A23J1 THRU
A23J9 PIN
NUMBERING



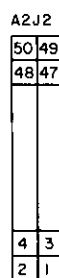
COAXIAL INTERCONNECTS

1	X
2	X
3	X
4	X
5	X
6	X
7	X
8	X
9	X
10	X
11	X
12	X
13	X
14	X
15	X
16	X
17	X
18	X
19	X
20	X
21	X
22	X
23	X
24	X
25	X
26	X
27	X
28	X
29	X
30	X
31	X
32	X
33	X

ABLE INTERCONNECTS

1	X
2	X
3	X
4	X
5	X
6	X
7	X
8	X
9	X
10	X
11	X
12	X
13	X
14	X
15	X
16	X
17	X
18	X
19	X
20	X
21	X
22	X
23	X
24	X
25	X
26	X
27	X
28	X
29	X
30	X
31	X
32	X
33	X

TH EXTERNAL FREQUENCY STANDARD OPTION ONLY.



TPA-0865-015

851S-1 Receiver, Cabling, Connector Layout, and Pin Numbering
Figure 4