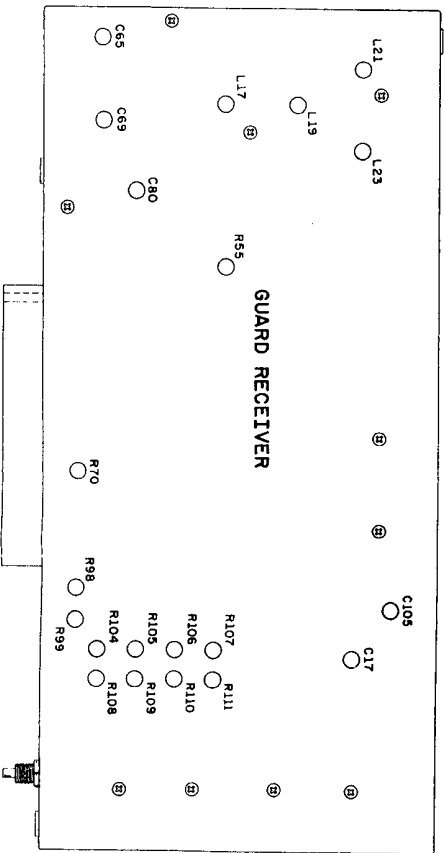
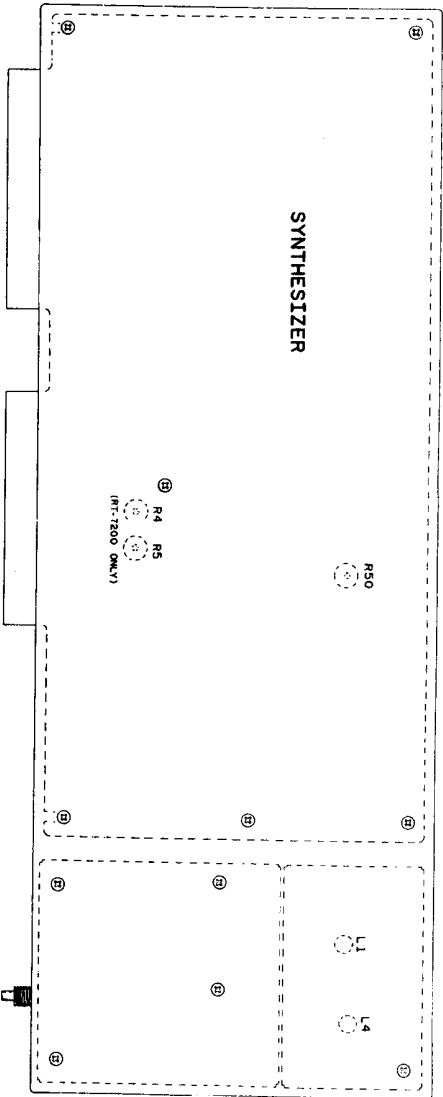




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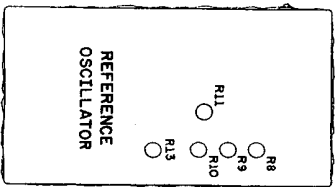
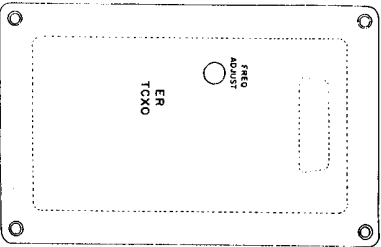
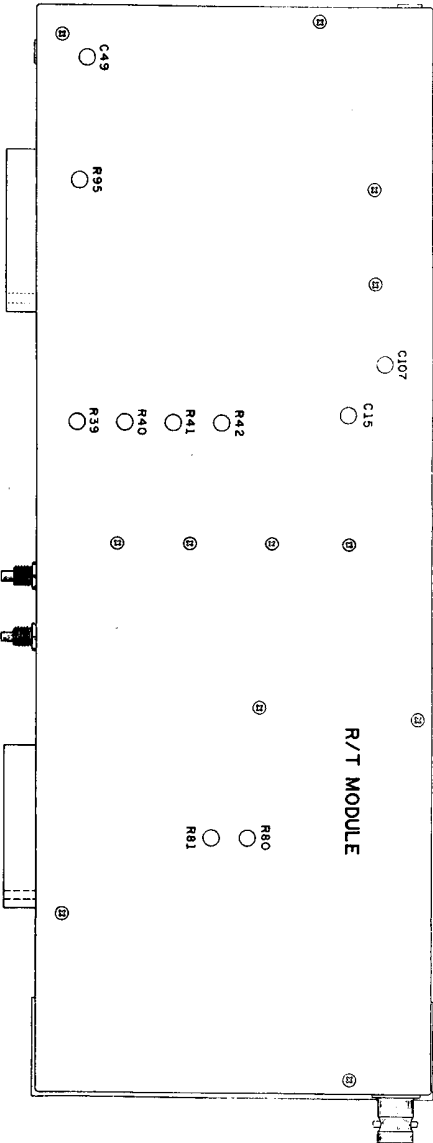
Don't Forget To Delete Me!



SYNTHESIZER AND GUARD RECEIVER MODULES TUNING HOLE LOCATIONS
FIGURE 4.6-1

4-39/40
REV.D

U. WULFBERG ELECTRONICS, INC.	
DATE	11-11-78
REV.	1
BY	W. J. WULFBERG
CHECKED BY	W. J. WULFBERG
APPROVED BY	W. J. WULFBERG
DESCRIPTION	GUARD & SYN. TUNING OUTLINE
QUANTITY	148-0118-000
REVISION	1 of 1
DATE	11-11-78



R/T MODULE, TCO, AND REFERENCE OSCILLATOR HOLE LOCATIONS
FIGURE 4.6-2

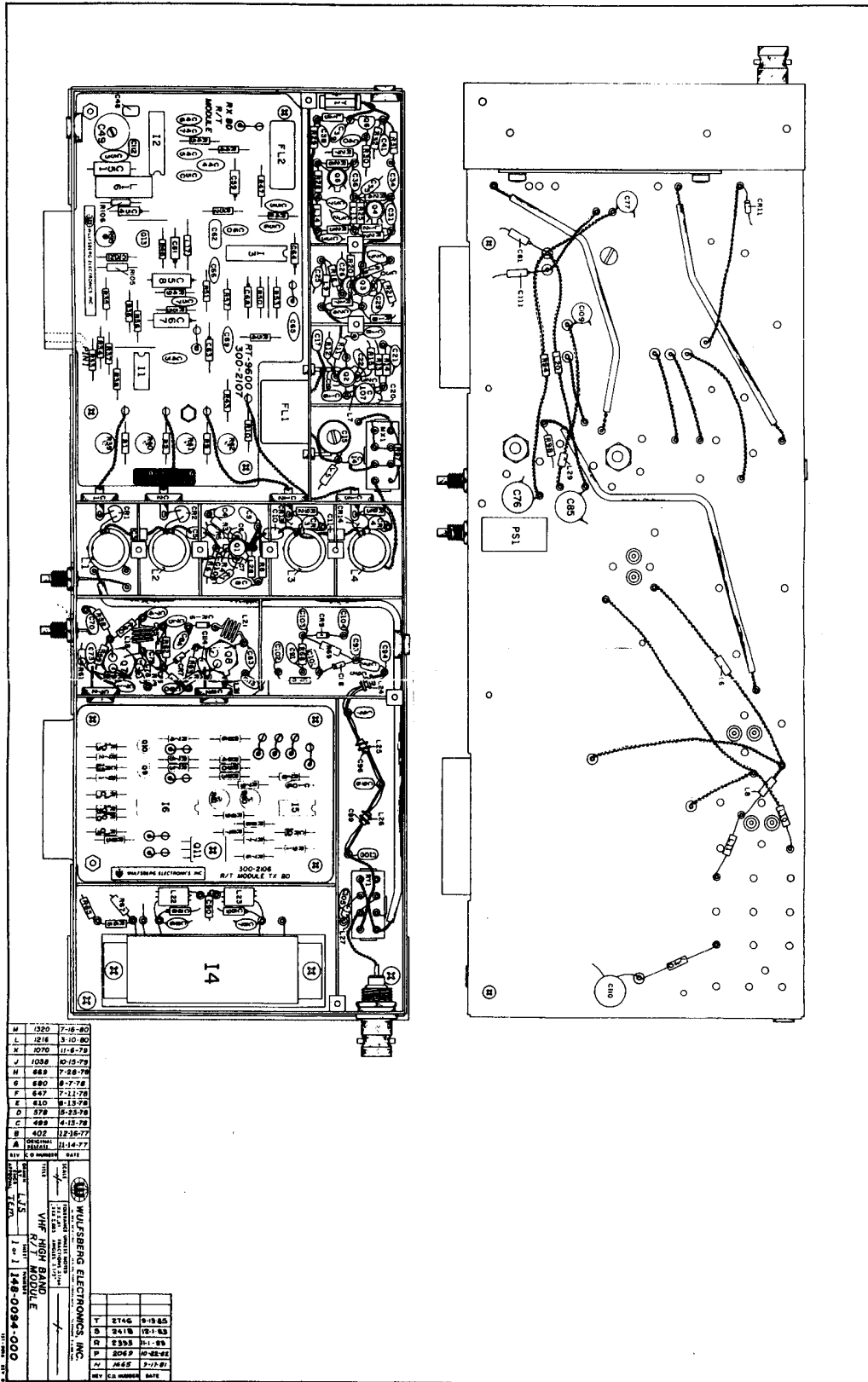
4-41/42
REV.D

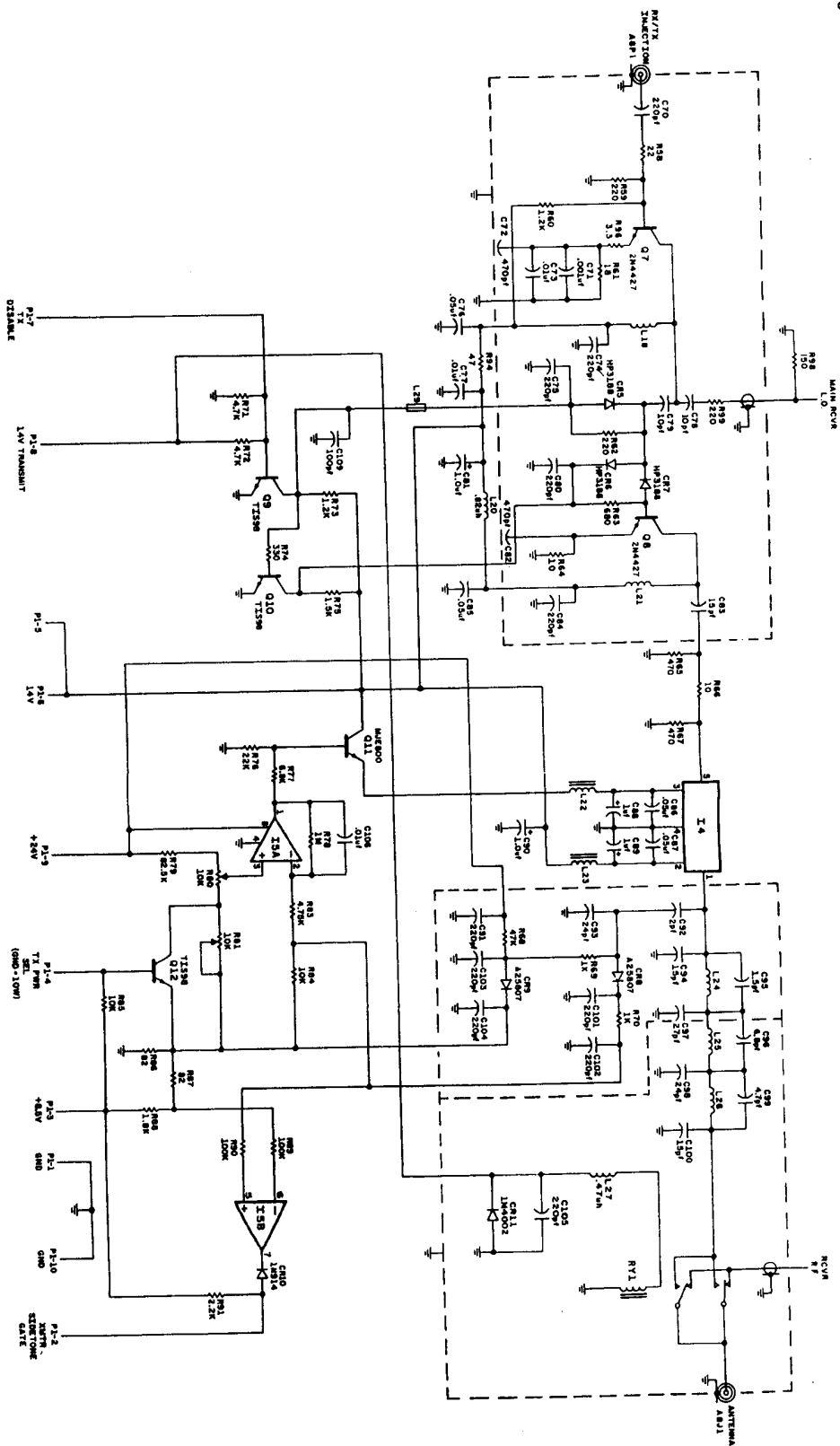
WILSON ELECTRONICS, INC.	
DATE	11/11/73
BY	WILSON
FOR	RT-9600 / RT-7200
REVISION	1
DESCRIPTION	R/T REF OSC & TCO TUNING OUTLINE
QUANTITY	1 of 1
PRICE	148-019-000
101-000-000	





108





TRANSMITTER CIRCUITS

WULFSBERG ELECTRONICS, INC.	
DATE	11-18-77
DESIGNED BY	W. J. W.
CHECKED BY	W. J. W.
APPROVED BY	W. J. W.
REVISIONS	
1	ORIGINAL
2	REVISION
3	REVISION
4	REVISION
5	REVISION
6	REVISION
7	REVISION
8	REVISION
9	REVISION
10	REVISION
11	REVISION
12	REVISION
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95	REVISION
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97	REVISION
98	REVISION
99	REVISION
100	REVISION



Wulfsberg Electronics Division
A Chelton Group Company

RT-9600F NARROW-BAND SYNTHESIZER MODULE
MAINTENANCE MANUAL ADDENDUM

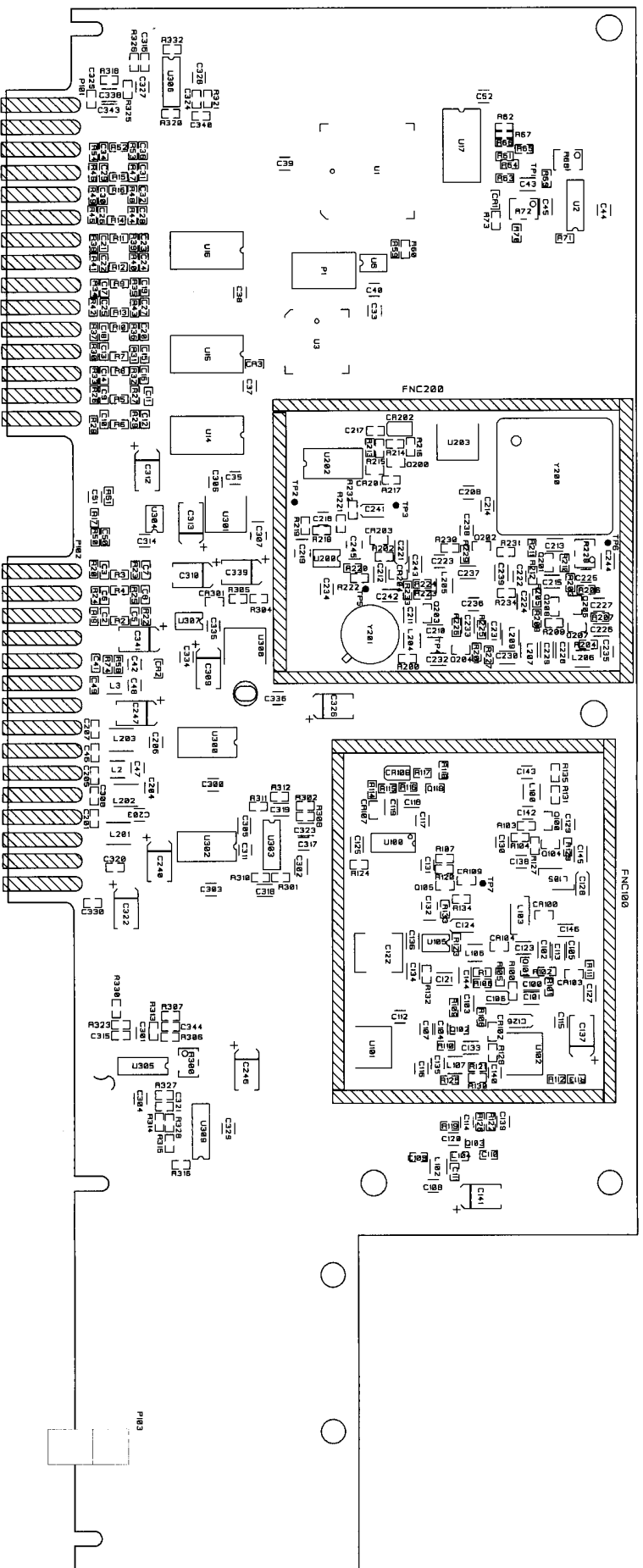


Figure 4-1. RT-9600F Narrow-Band Synthesizer Module
Assembly Drawing



Wulfsberg Electronics Division
A Chevron Group Company

RT-9600F NARROW-BAND SYNTHESIZER MODULE
MAINTENANCE MANUAL ADDENDUM

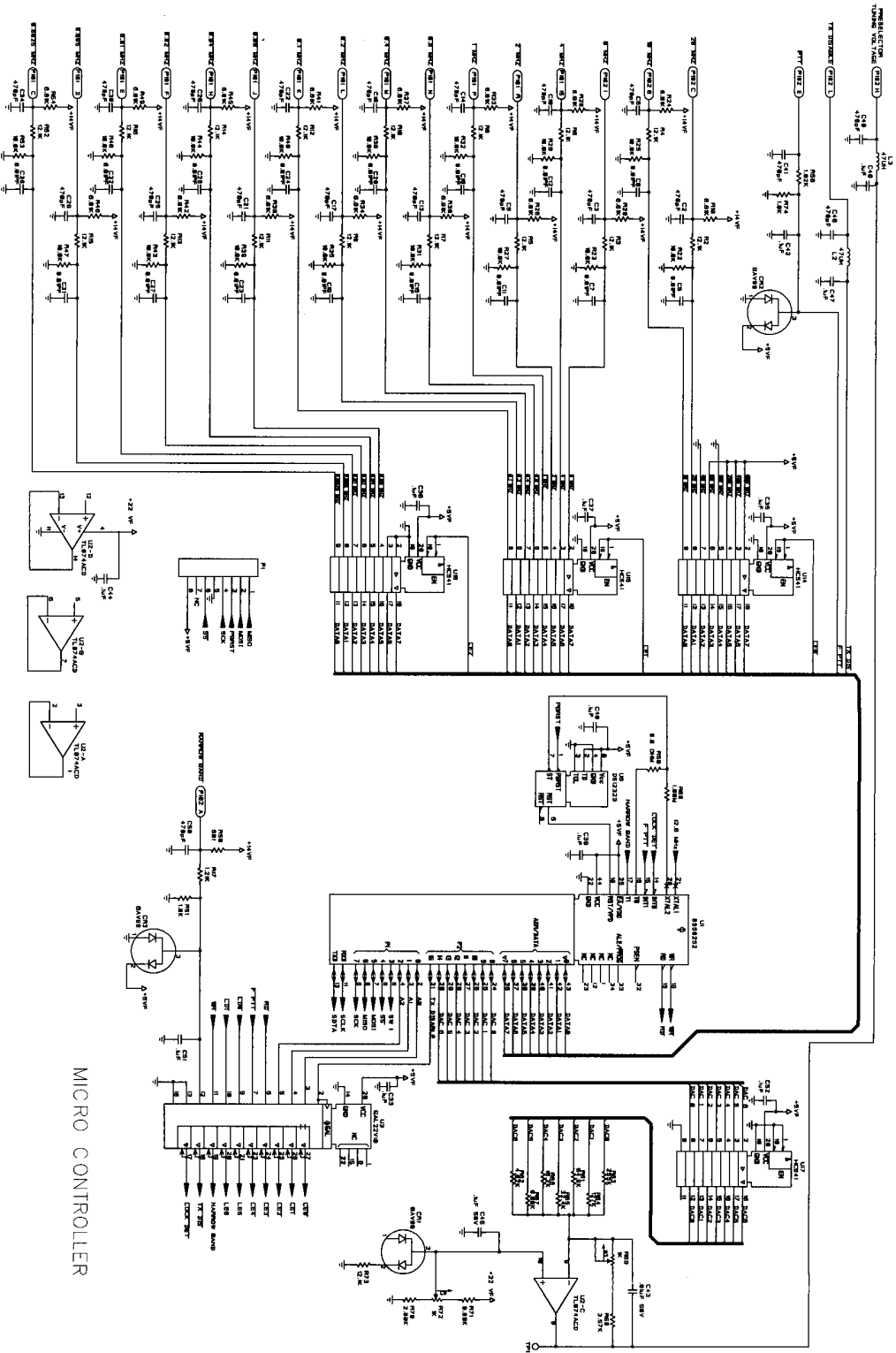


Figure 4-2. RT-9600F Narrow-Band Synthesizer Module
Schematic Diagram (Page 1 of 4)

RT-9600F MAINTENANCE MANUAL NARROW-BAND UPGRADE ADDENDUM

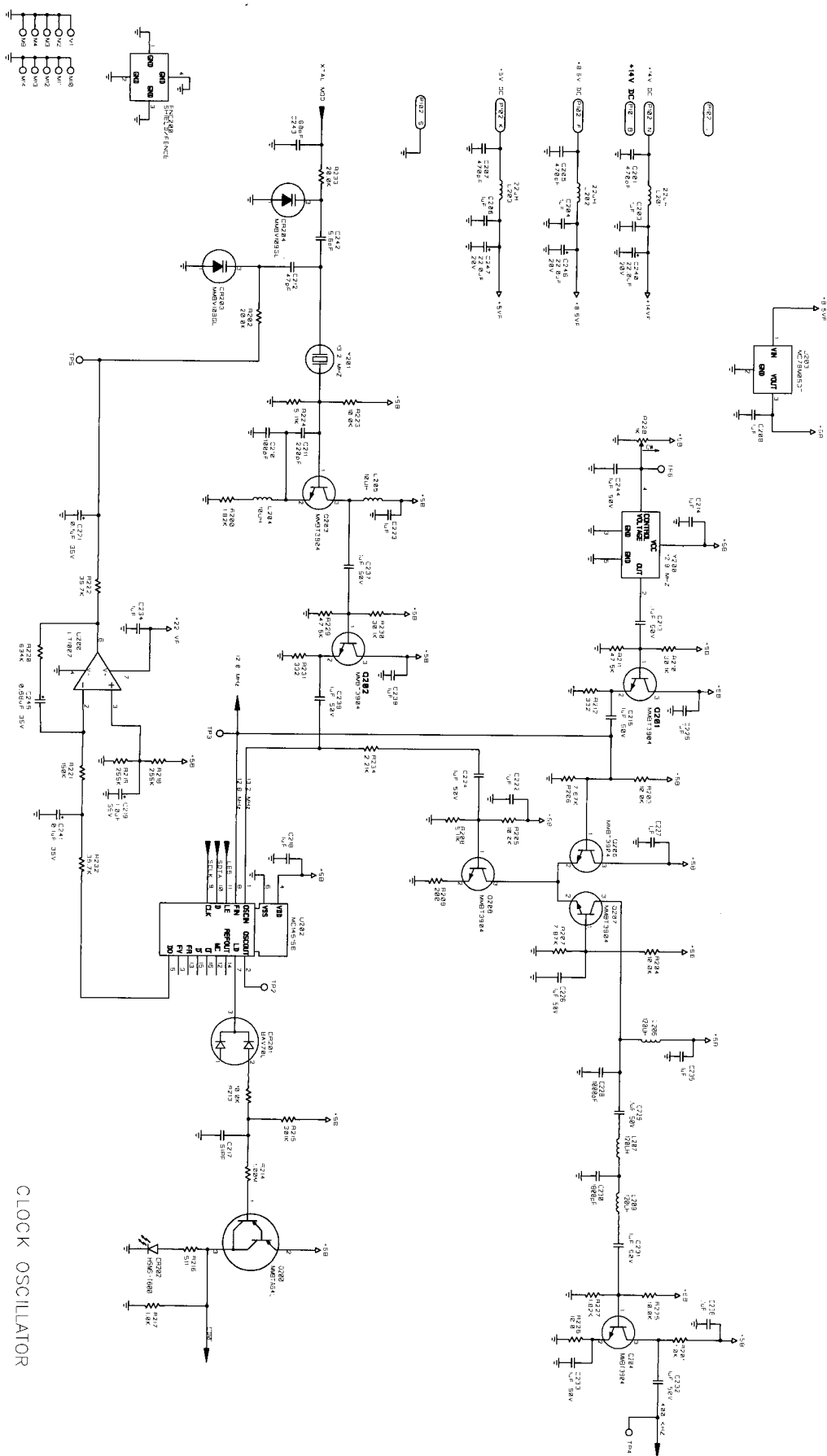


Figure 4-3. RT-9600F Narrow-Band Synthesizer Module Schematic Diagram (Page 2 of 4)



Wulfsberg Electronics Division
A Chelton Group Company

RT-9600F MAINTENANCE MANUAL NARROW-BAND UPGRADE APPENDUM

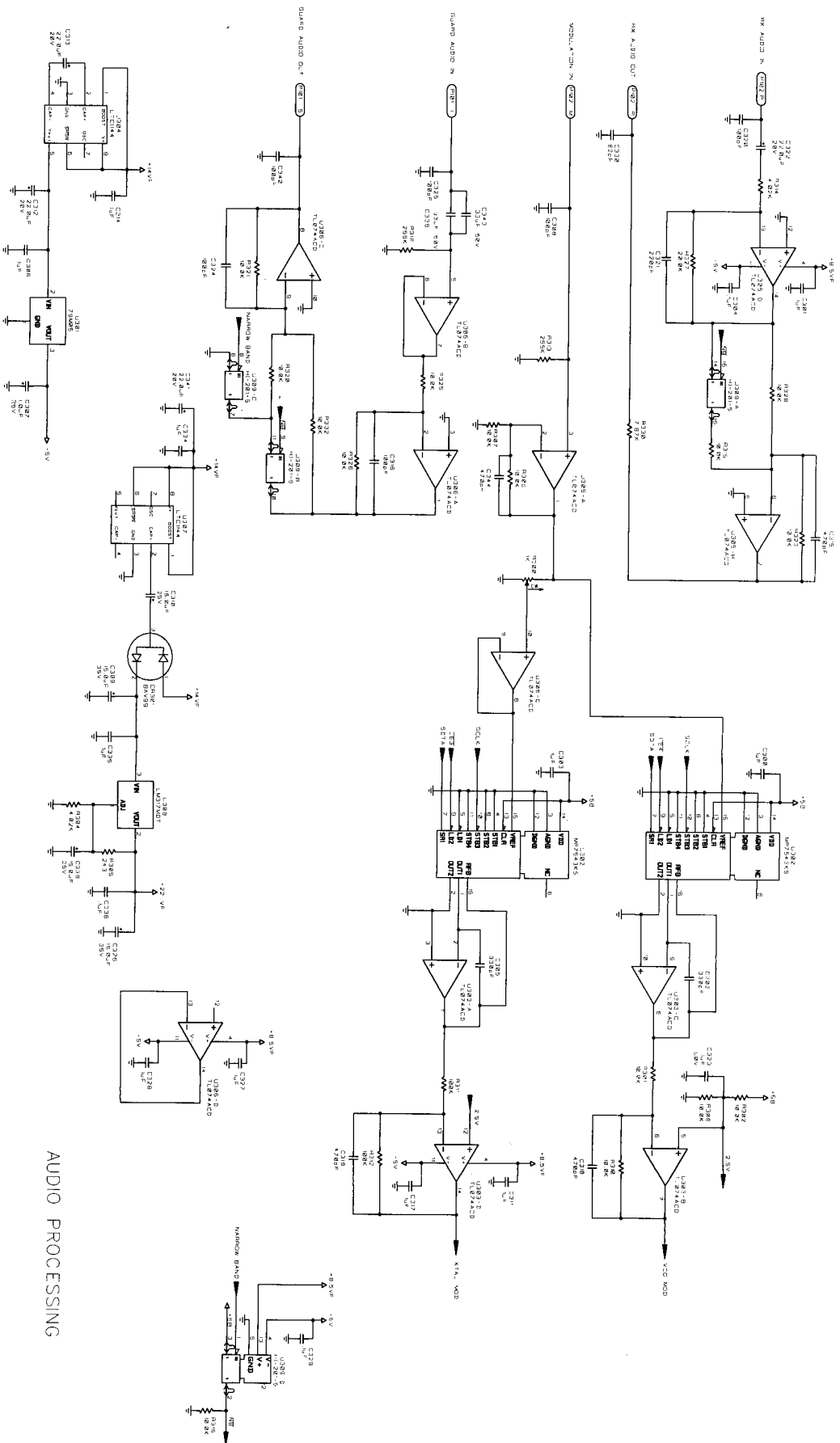
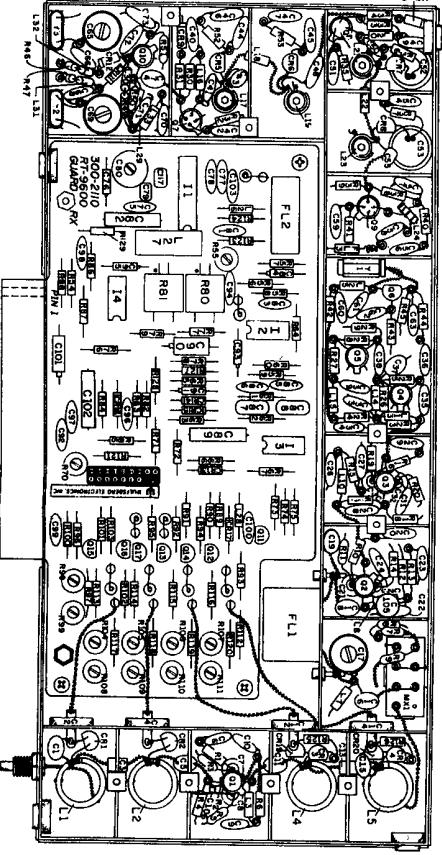
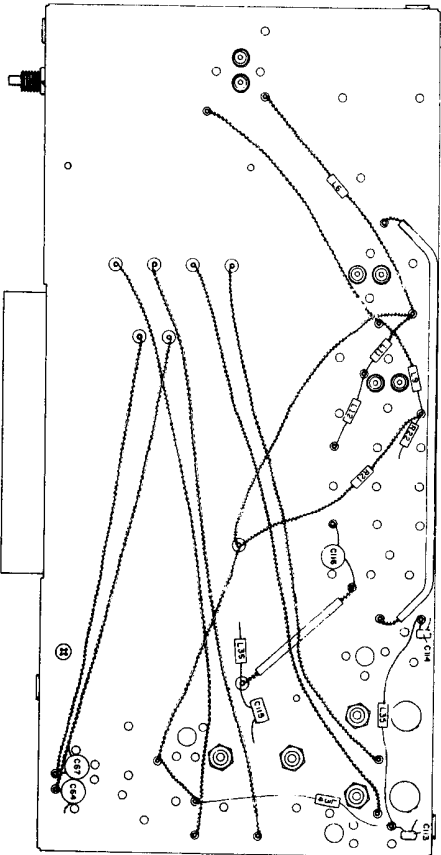


Figure 4-4. RT-9600F Narrow-Band Synthesizer Module
Schematic Diagram (Page 3 of 4)



16.9 MHz GUARD RECEIVER MODULE (M4) COMPONENT LOCATOR
FIGURE 5.1-14

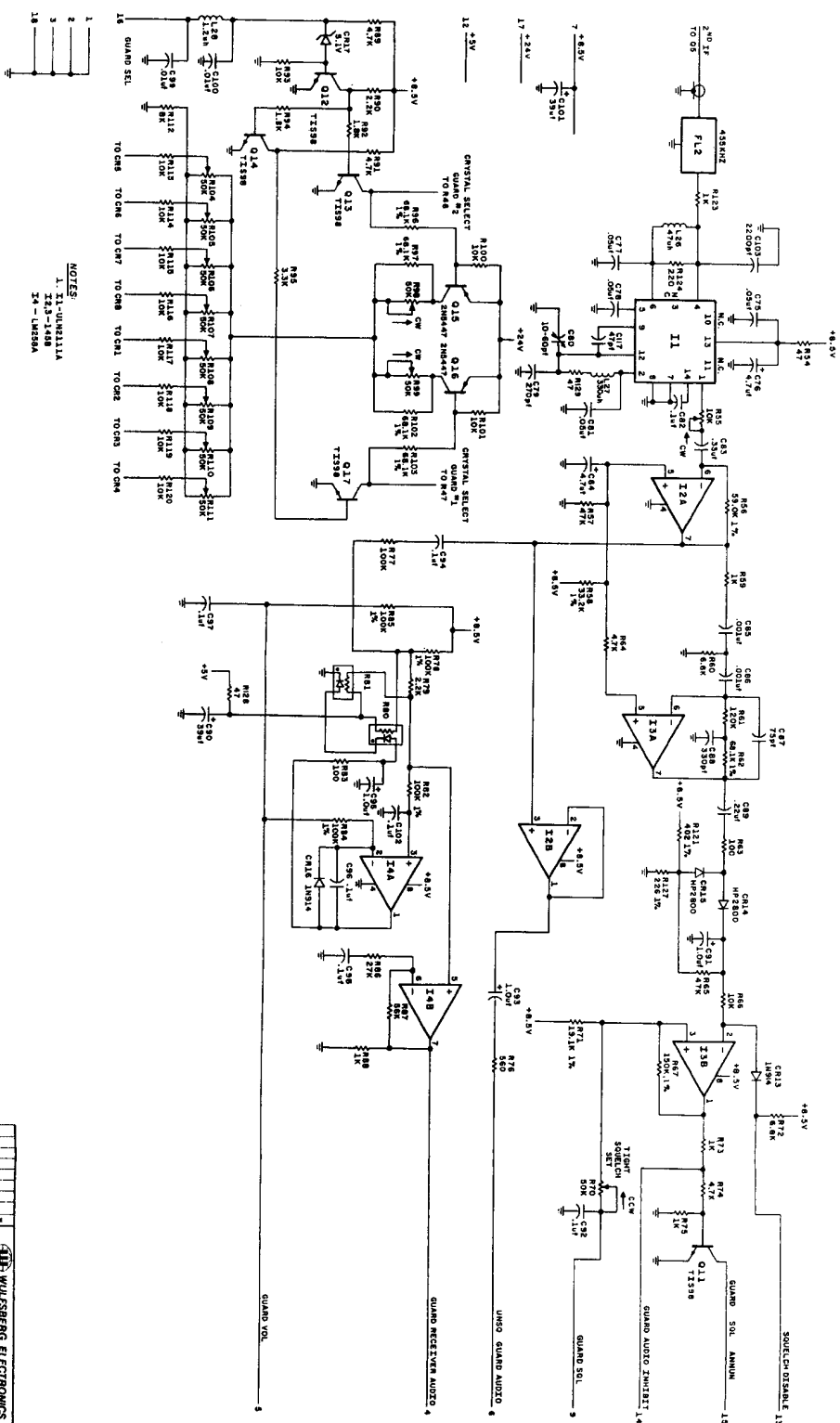
5-55/56
REV.D

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
A	8-29-78				ORIGINAL
B	8-24-79				REVISION
C	4-3-80				REVISION
D	1-5-81				REVISION
E	4-8-82				REVISION
F	7-29-82				REVISION
G	12-1-83				REVISION

WILKES ENGINE ELECTRONICS, INC.	148-0145-000
RT-9600-1	148-0145-000
GUARD MODULE	148-0145-000
1 of 1	148-0145-000

5-57/58
REV.D

[illegible]



16.9 MHz GUARD RECEIVER MODULE (M) SCHEMATIC (SHEET 2 OF 2)
FIGURE 5.1-15
5-59/60

[illegible]

10 W AUDIO MODULE (A5) SCHEMATIC
FIGURE 5.1-17

5-67/68
REV.D

U	2495	4-15-81
U	1460	9-2-81
S	1431	12-22-80
T	1463	9-12-80
U	1032	3-1-80
G	1205	3-3-80
P	1166	2-4-80
U	1036	10-11-79
S	987	9-24-79
M	962	7-10-79
L	953	6-28-79
E	796	1-1-79
J	741	7-11-78
H	618	6-20-78
E	601	6-20-78
F	499	3-23-78
E	491	3-23-78
D	426	1-18-78
S	346	10-27-77
B	325	10-27-77
A	305	10-27-77
REV	0	9-13-77

DATE: 12-27-77
 DRAWN BY: J.T.
 1 of 1
 132-0099-000



WALTBERG ELECTRONICS, INC.
 100 WATT
 AUDIO METER SCHEMATIC



5-69/70

F	495	3-25-78			
E	491	3-20-78			
D	426	1-19-78			
		10-27-77			
C	325	9-23-77			
B		9-13-77			
REV		C O NUMBER		DATE	

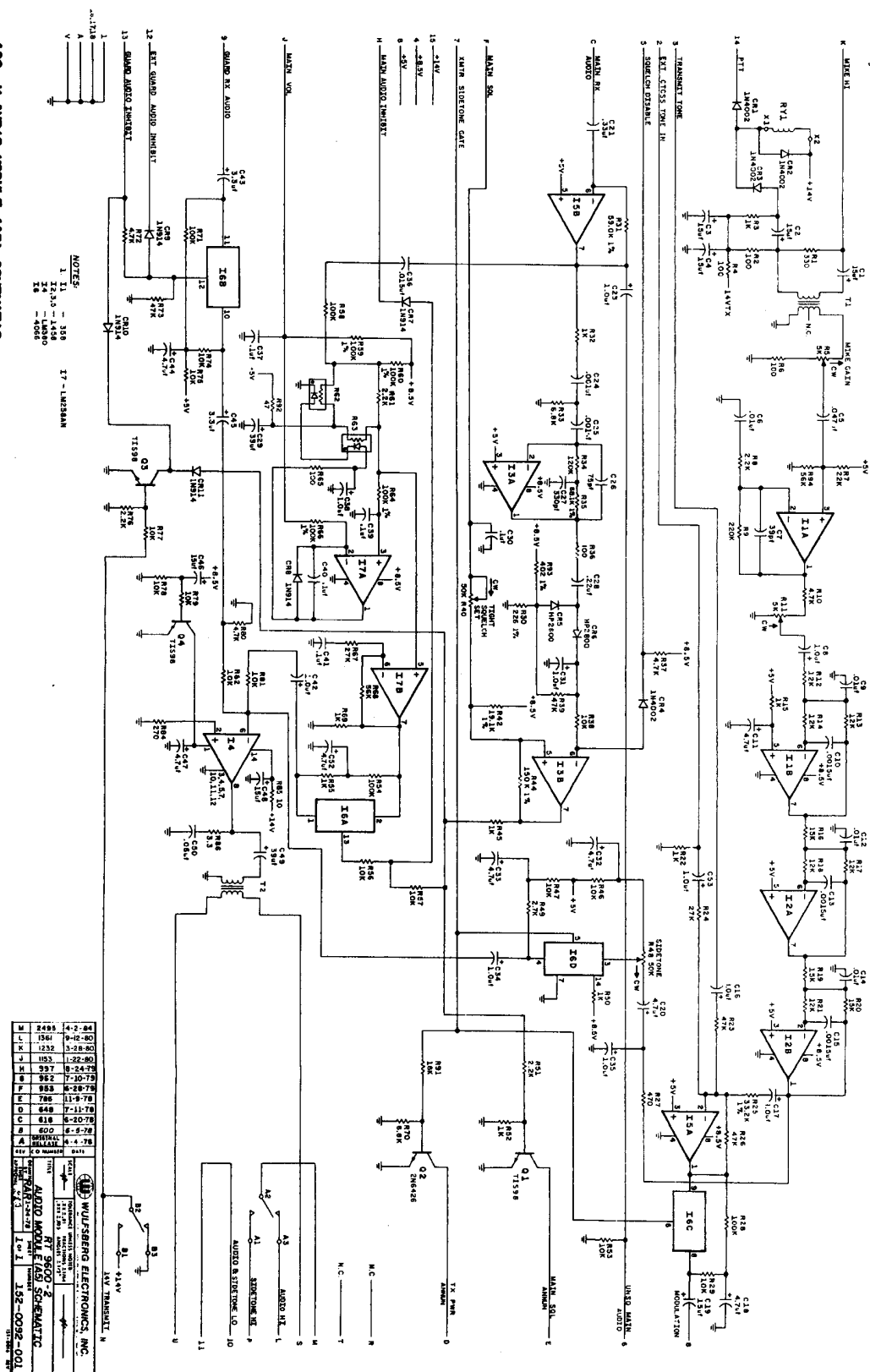

WULFSBERG ELECTRONICS, INC.
 152-0092-0
 151-808 807

DATE	1-28-81	REVISION	1
BY	W. J. P.	DATE	1-28-81
BY	W. J. P.	DATE	1-28-81

TITLE: **RT 9600-0-1**
AUDIO MODULE AS SCHEMATIC
 DRAWN BY: **W. J. P.**
 CHECKED BY: **W. J. P.**
 DATE: **1-28-81**
 REV: **152-0092-0**

RAD. write ins
DVP medic.

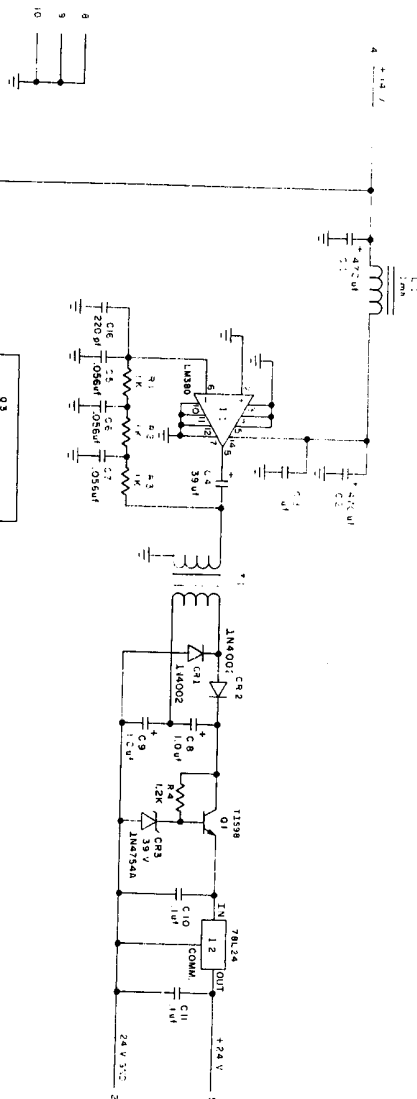
3A-14



100 **mm** AUDIO MODULE (A5) SCHEMATIC
FIGURE 5.1.20

5-75/76
REV.D

[illegible]



POWER SUPPLY MODULE (A6) SCHEMATIC
FIGURE 3.1-22

5-79/80
REV.D

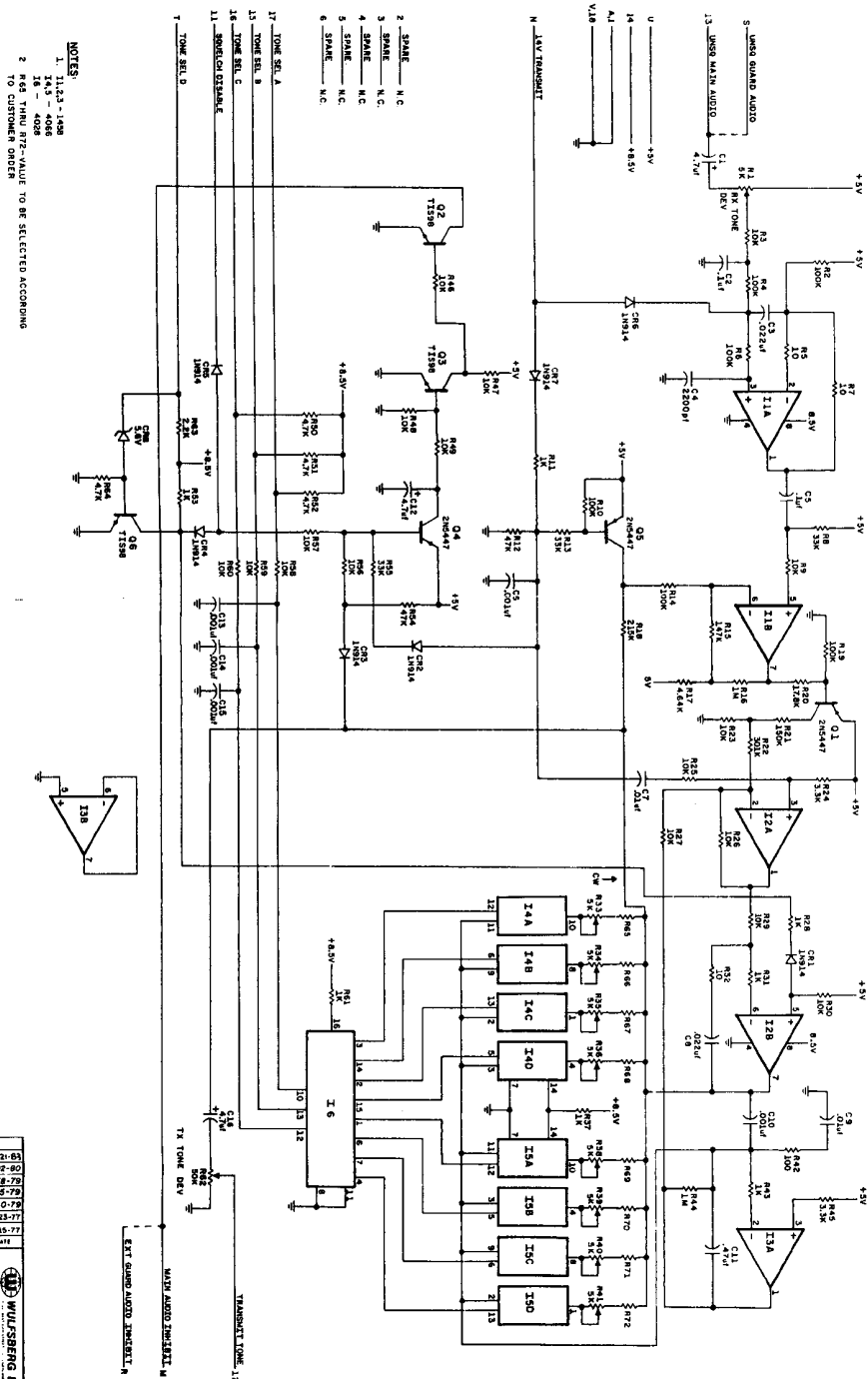


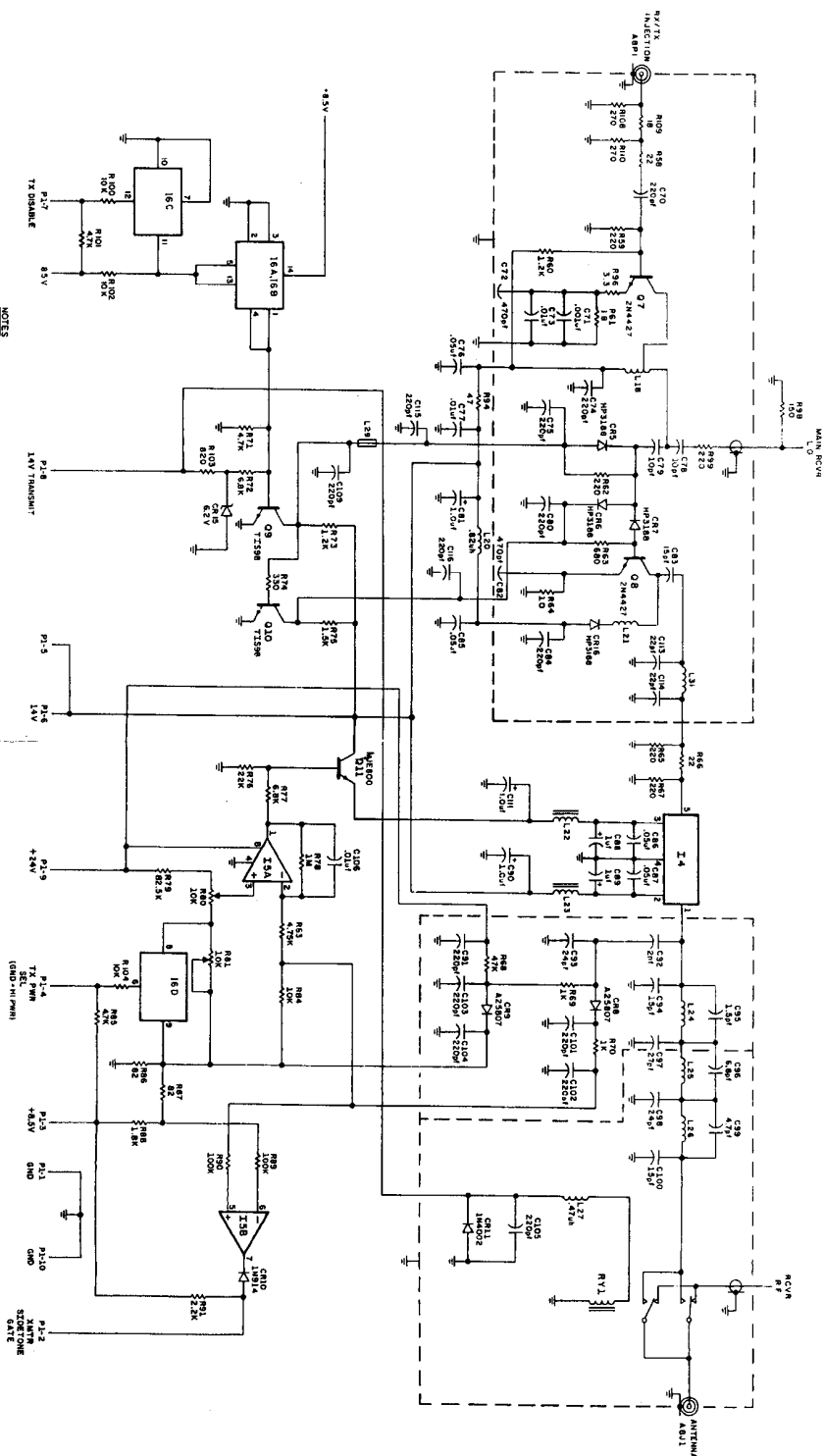
FIGURE 5.1-24
SCHEMATIC (A7) TONE MODULE

5-83/84
REV.D

[illegible]

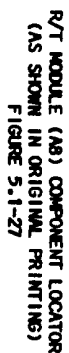
R/T MODULE (A8) SCHEMATIC (SHEET 2 OF 2)
FIGURE 5.1-26

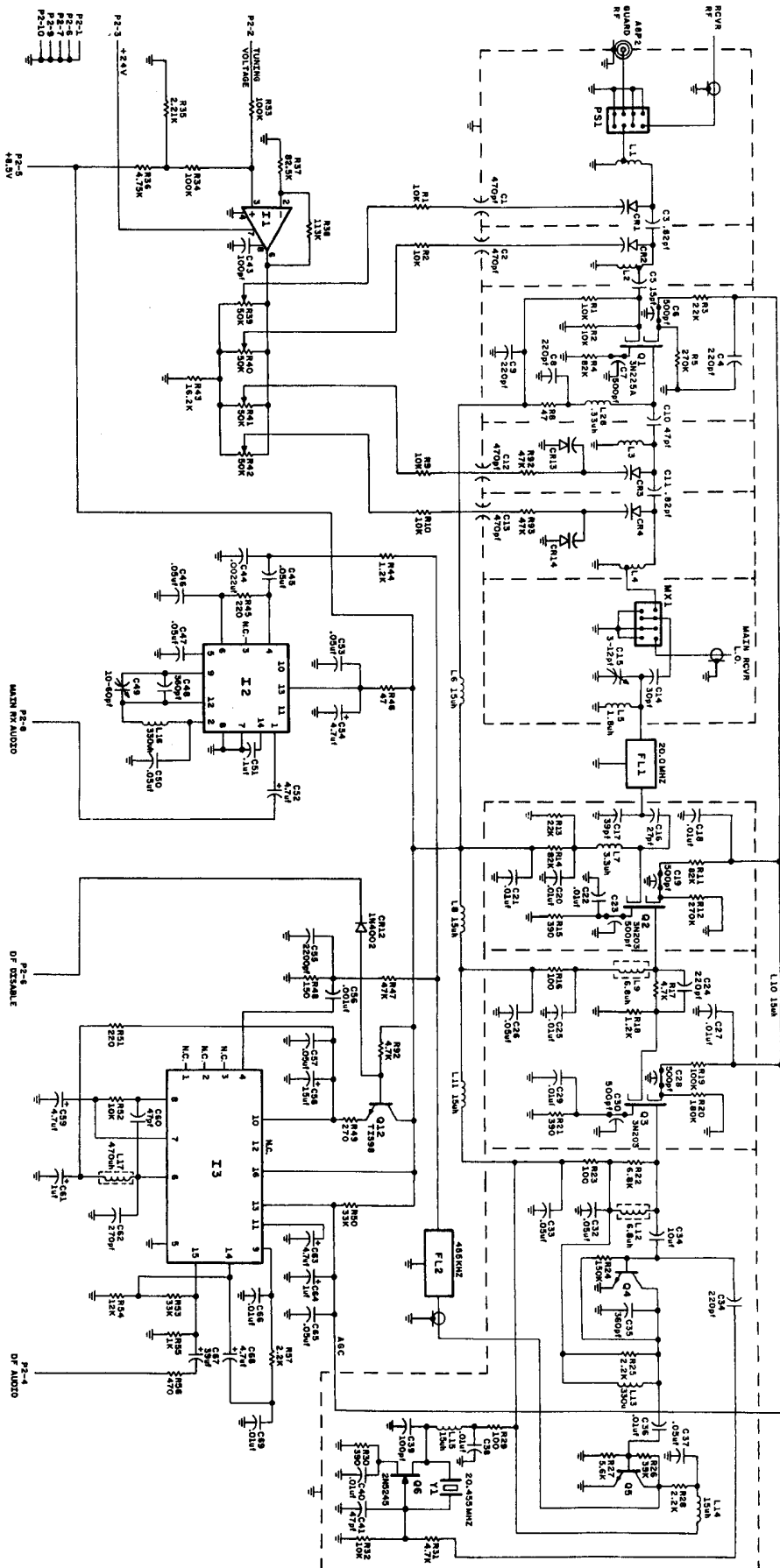
5-95/96
REV.D



TRANSMITTER CIRCUITS

SEE SHEET 1		DATE 9-15-77	
A. ORDER NO.		REVISED	
BY		Q. NUMBER	
 WULFSBERG ELECTRONICS, INC.		1/2" (25.4mm) DIA. HOLES 1/2" (25.4mm) DIA. HOLES 1/2" (25.4mm) DIA. HOLES	
VHF HIGH BAND MAIN RT MODULE (A8) SCHEMATIC		1/2" (25.4mm) DIA. HOLES 1/2" (25.4mm) DIA. HOLES 1/2" (25.4mm) DIA. HOLES	
152-0089-000		152-0089-000	

[illegible]



NOTES

1. I1 - LM508
I2 - ULN2111
I3 - CA3086E
2. CR1,2 - MV2106
CR3,4,13,14 - MV2111
3. Q4,5 - 2N5179

RECEIVER CIRCUITS

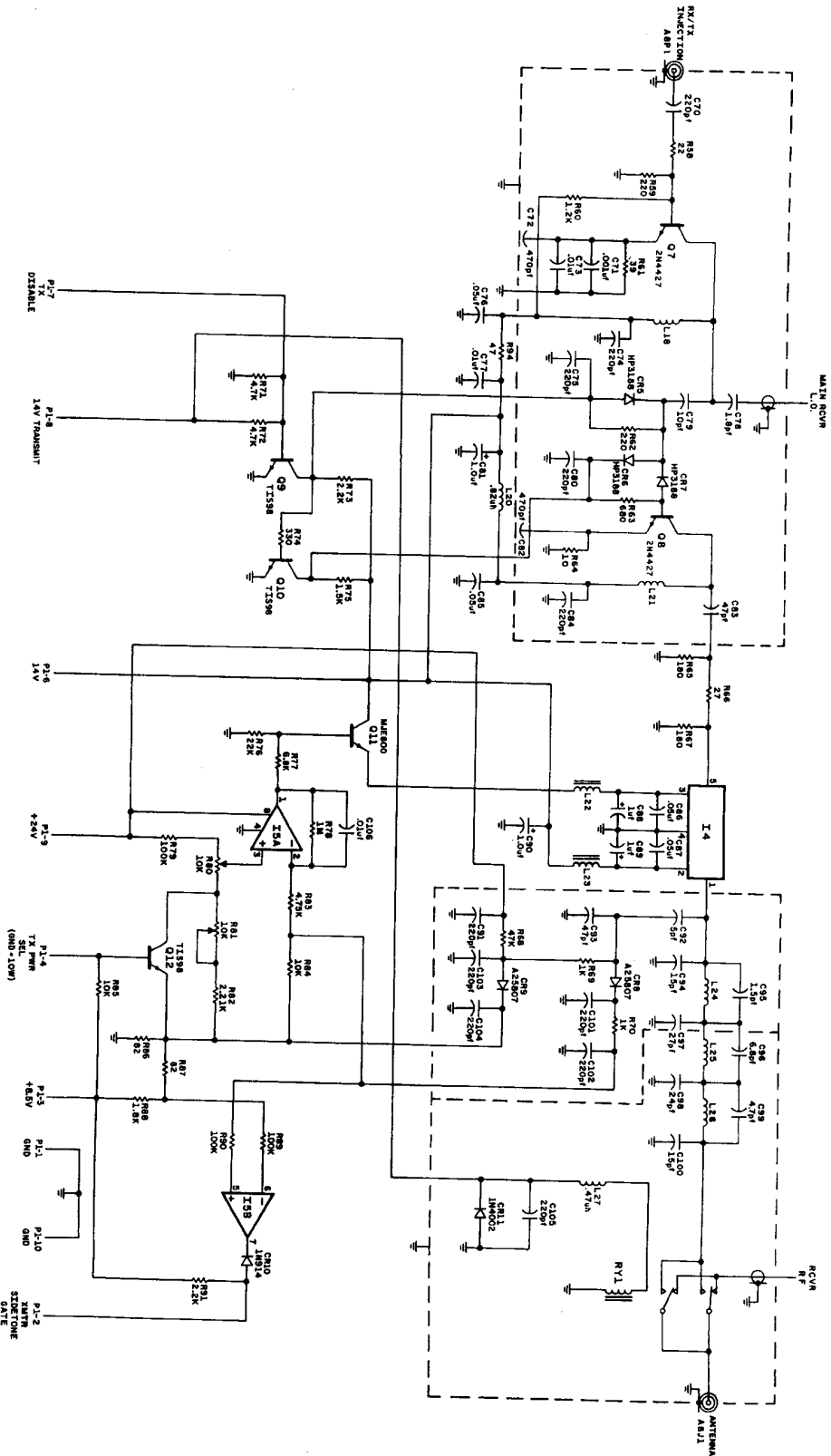
H	494	3-20-78
G	484	5-14-78
F	442	2-3-78
E	378	11-18-77
D	360	11-8-77
C	327	9-27-77
B	323	9-23-77
A	ORIGINAL	9-10-77
REV	C NO NUMBER	DATE



WULSBERG ELECTRONICS, INC.

TITLE	RT 9600
DESCRIPTION	MAIN RT MODULE & (A) SCHEMATIC
QTY	1
RATE	\$ - .78
TOTAL	\$.78
DATE	1-0-2
NO	152-0089

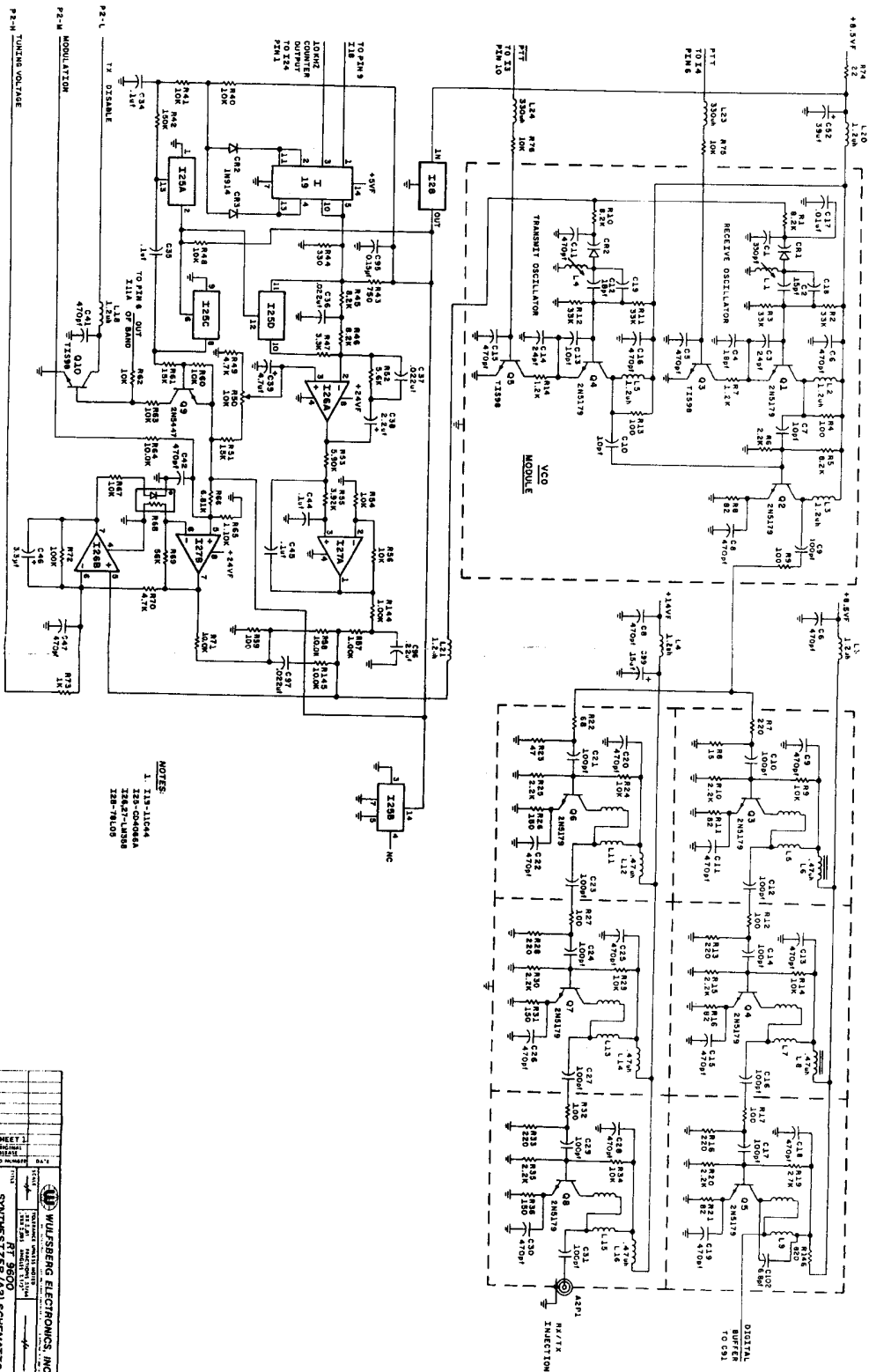
151-140 REV A-V



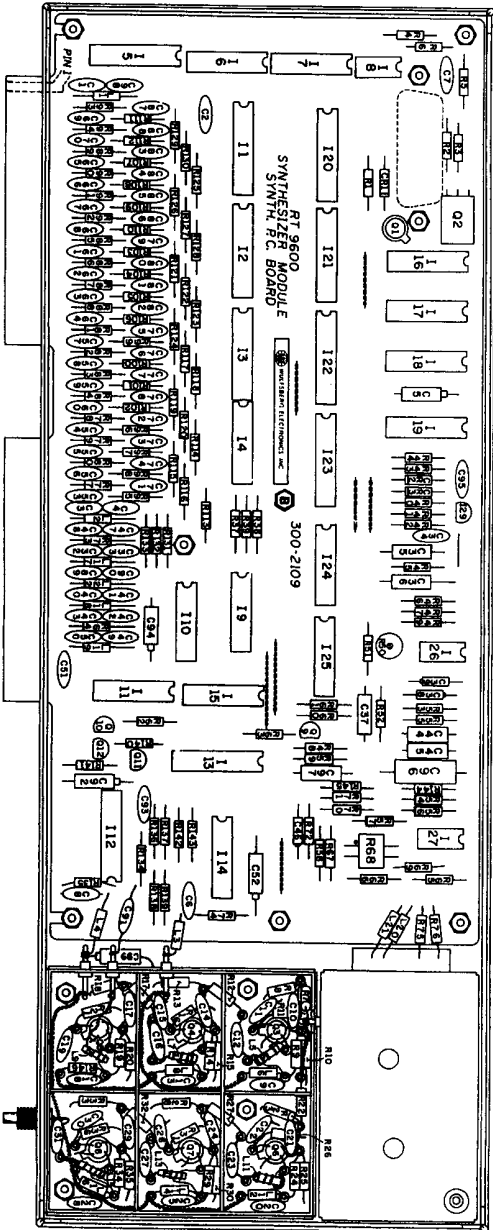
R/T MODULE (A8) SCHEMATIC (SHEET 2 OF 2)
(AS SHOWN IN ORIGINAL PRINTINGS)
FIGURE 5.1-28

5-101/102
REV.D

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



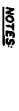
SEE SHEET 1		WULFBERG ELECTRONICS, INC.	
DATE	REV.	SYNTHESIZER (A2) SCHEMATIC	RT-9600
1982-03-15	1	3 of 3	182-0090-000



SYNTHESIZER MODULE (A2) COMPONENT LOCATOR
(AS SHOWN IN ORIGINAL PRINTING)
FIGURE 5.1-10

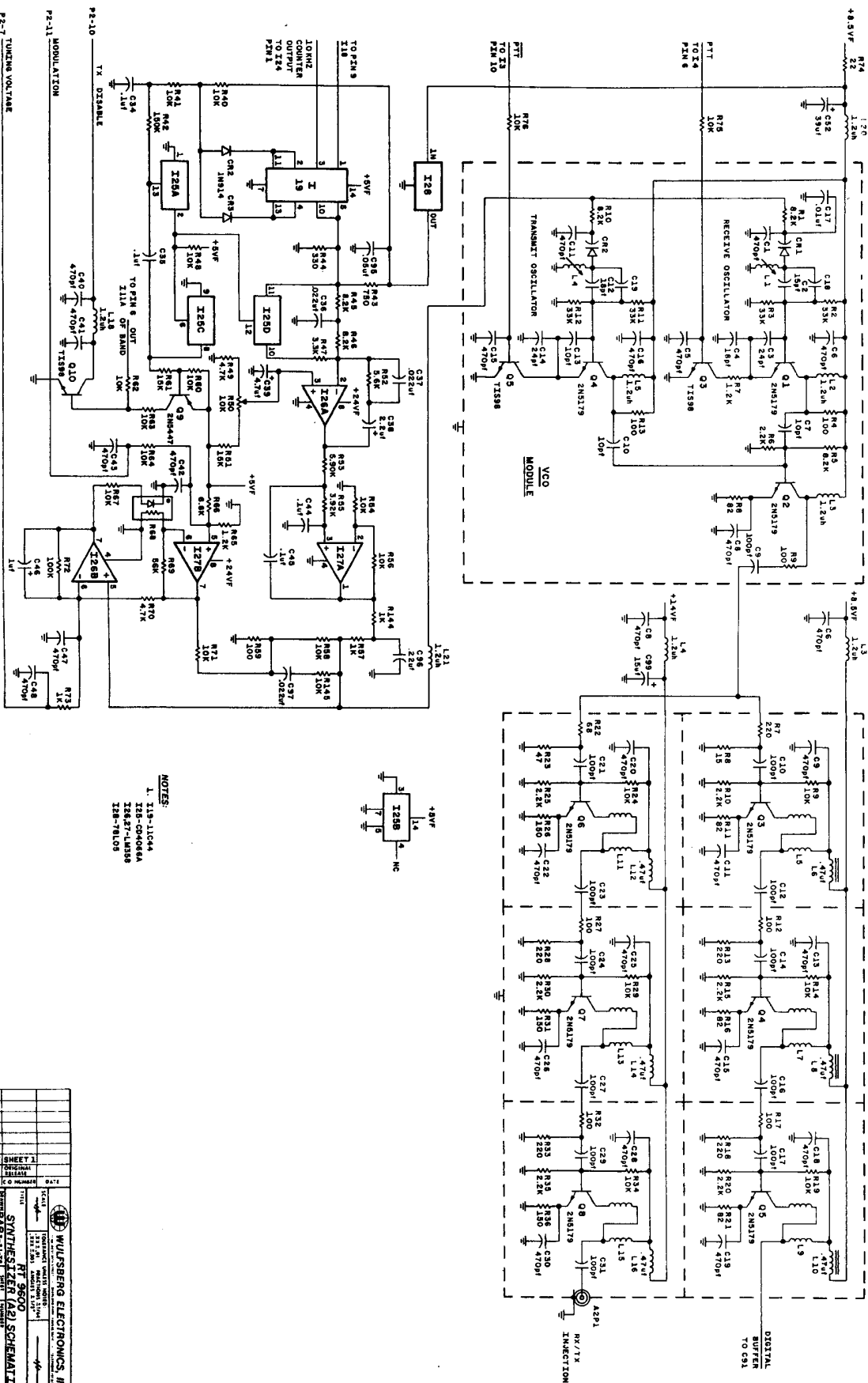
5-33/34
REV.D

WULFSBERG ELECTRONICS, INC.		DATE	1-12-78
REV	423	1-12-78	
BY	423	1-12-78	
CHKD	423	1-12-78	
APP'D	423	1-12-78	
TITLE		SYNTHESIZER MODULE	
PART		RT-9600	
REV		1 of 1	
PART NO.		148-0095	



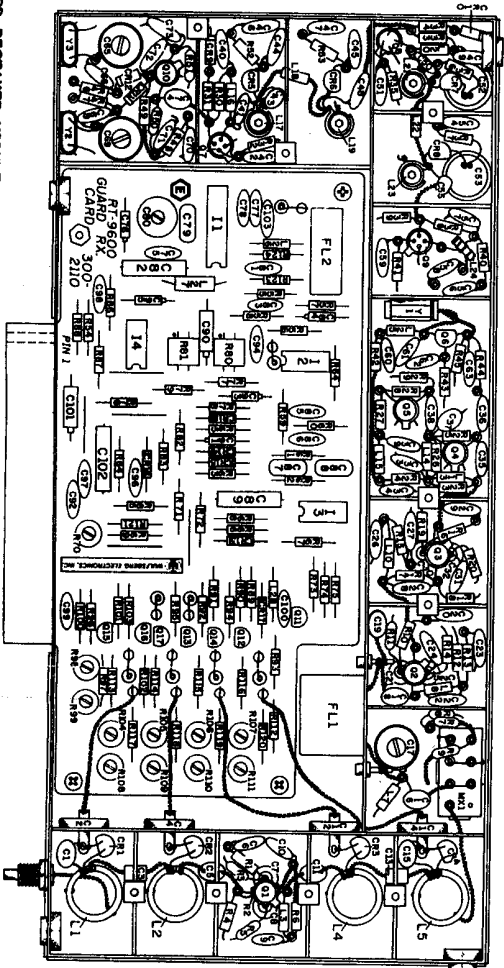
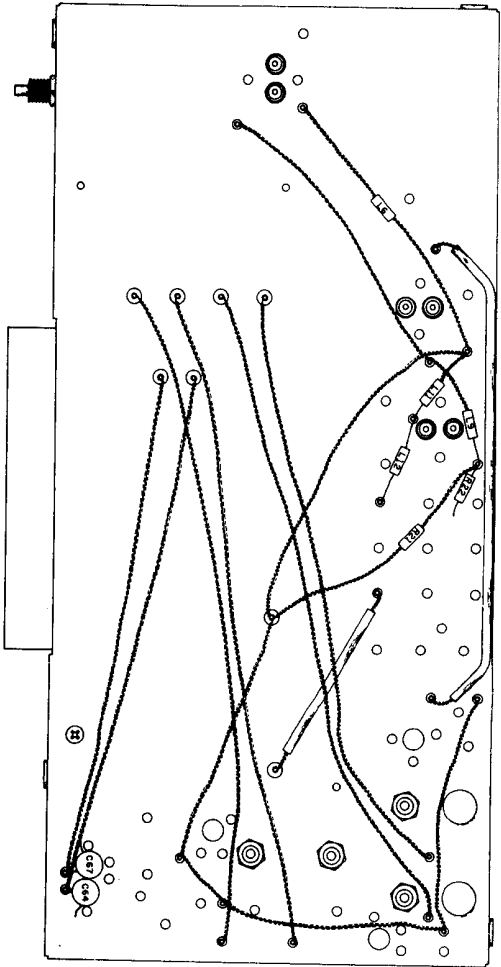
5-37/38
REV.D

[illegible]



SYNTHESIZER MODULE (A2, A3) SCHEMATIC (SHEET 3 OF 3)
(AS SHOWN IN ORIGINAL PRINTING)
FIGURE 5.1-11

5-39/40
REV.D



21.4 MHz GUARD RECEIVER MODULE (M) COMPONENT LOCATOR
(AS SHOWN IN REVISION A PRINTINGS)
FIGURE 5.1-12

5-45/46
REV.D

REV	496	5-25-76
REV	A	12-24-77
REV	C	06-08-78
REV	D	10-01-79
REV	E	10-01-79
REV	F	10-01-79
REV	G	10-01-79
REV	H	10-01-79
REV	I	10-01-79
REV	J	10-01-79
REV	K	10-01-79
REV	L	10-01-79
REV	M	10-01-79
REV	N	10-01-79
REV	O	10-01-79
REV	P	10-01-79
REV	Q	10-01-79
REV	R	10-01-79
REV	S	10-01-79
REV	T	10-01-79
REV	U	10-01-79
REV	V	10-01-79
REV	W	10-01-79
REV	X	10-01-79
REV	Y	10-01-79
REV	Z	10-01-79

REV	496	5-25-76
REV	A	12-24-77
REV	C	06-08-78
REV	D	10-01-79
REV	E	10-01-79
REV	F	10-01-79
REV	G	10-01-79
REV	H	10-01-79
REV	I	10-01-79
REV	J	10-01-79
REV	K	10-01-79
REV	L	10-01-79
REV	M	10-01-79
REV	N	10-01-79
REV	O	10-01-79
REV	P	10-01-79
REV	Q	10-01-79
REV	R	10-01-79
REV	S	10-01-79
REV	T	10-01-79
REV	U	10-01-79
REV	V	10-01-79
REV	W	10-01-79
REV	X	10-01-79
REV	Y	10-01-79
REV	Z	10-01-79

21.4 MHz GUARD RECEIVER MODULE (M) SCHEMATIC (SHEET 1 OF 2)
(AS SHOWN IN REVISION A PRINTING)
FIGURE 5.1-13

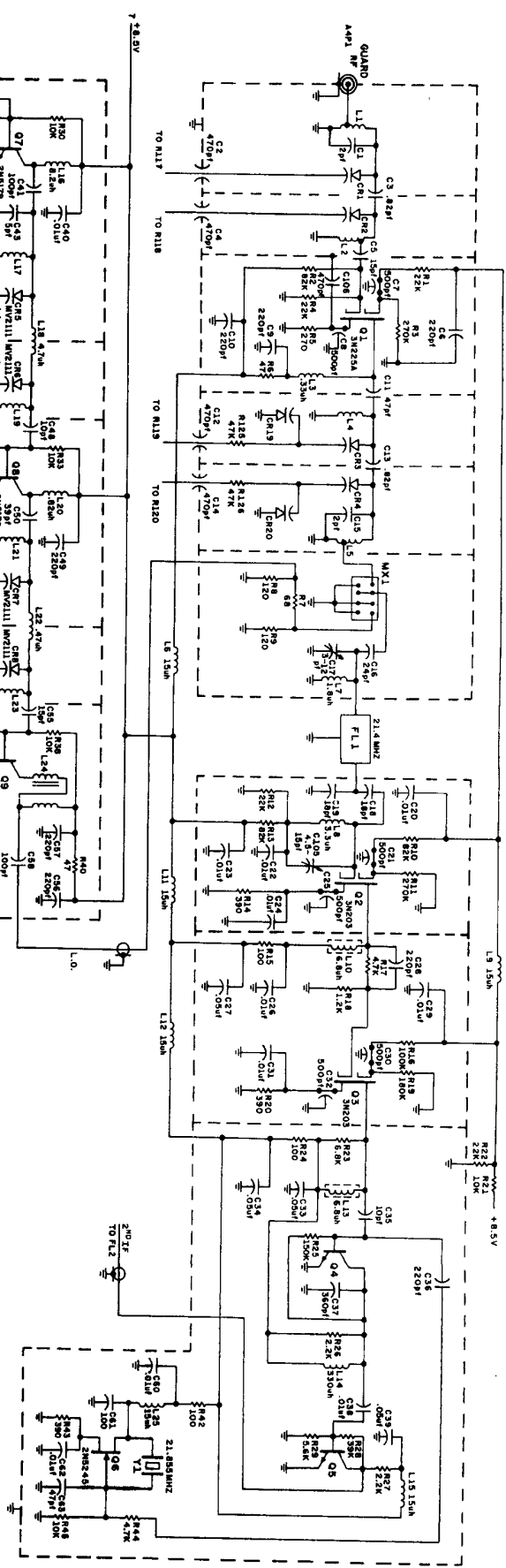
5-47/48
REV.D

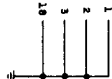
- NOTES
1. Q8-2N5179
 2. C115 - 2N5179
 3. C116 - 2N5179
 4. C117 - 2N5179
 5. C118 - 2N5179

REV	DATE	BY	CHKD	DESCRIPTION
1	11-14-78			INITIAL RELEASE
2	11-14-78			INITIAL RELEASE
3	11-14-78			INITIAL RELEASE
4	11-14-78			INITIAL RELEASE
5	11-14-78			INITIAL RELEASE
6	11-14-78			INITIAL RELEASE
7	11-14-78			INITIAL RELEASE
8	11-14-78			INITIAL RELEASE
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32	11-14-78			INITIAL RELEASE
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95	11-14-78			INITIAL RELEASE
96	11-14-78			INITIAL RELEASE
97	11-14-78			INITIAL RELEASE
98	11-14-78			INITIAL RELEASE
99	11-14-78			INITIAL RELEASE
100	11-14-78			INITIAL RELEASE



224V 17



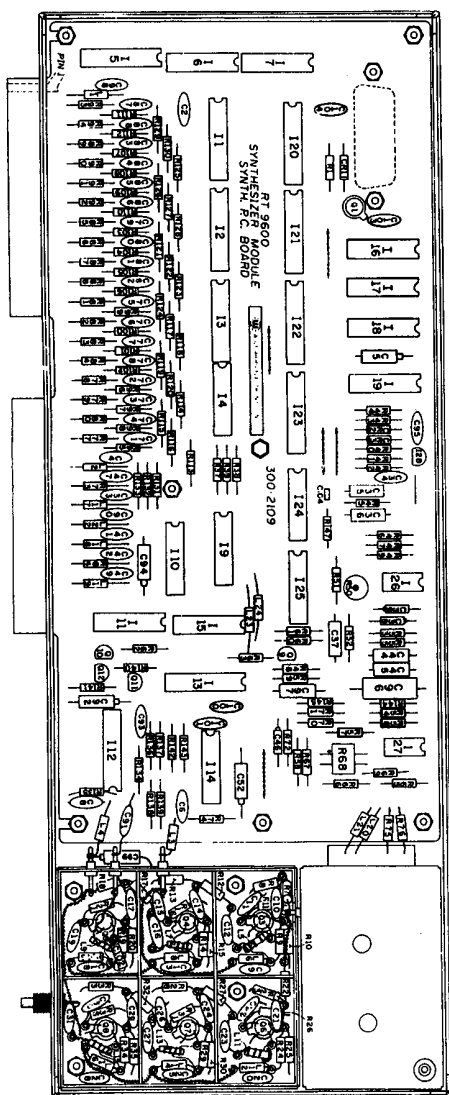


5-49/50
REV.D

[illegible]

SYNTHESIZER MODULE (A2) COMPONENT LOCATOR
FIGURE 5.1-7

5-23/24
REV.D



REV.	DATE	BY	CHKD.	APP'D.	REVISION
1	2709 6-10-85				
2	9254 5-25-83				
3	1488 1-23-80				
4	1256 4-15-80				
5	1208 3-5-80				
6	980 8-3-79				
7	924 5-28-75				
8	740 9-28-78				
9	423 1-12-78				
10	1112 12-14-77				
11	1112 12-14-77				
12	1112 12-14-77				
13	1112 12-14-77				
14	1112 12-14-77				
15	1112 12-14-77				
16	1112 12-14-77				
17	1112 12-14-77				
18	1112 12-14-77				
19	1112 12-14-77				
20	1112 12-14-77				

WILKINSBERG ELECTRONICS, INC.

SYNTHESIZER MODULE

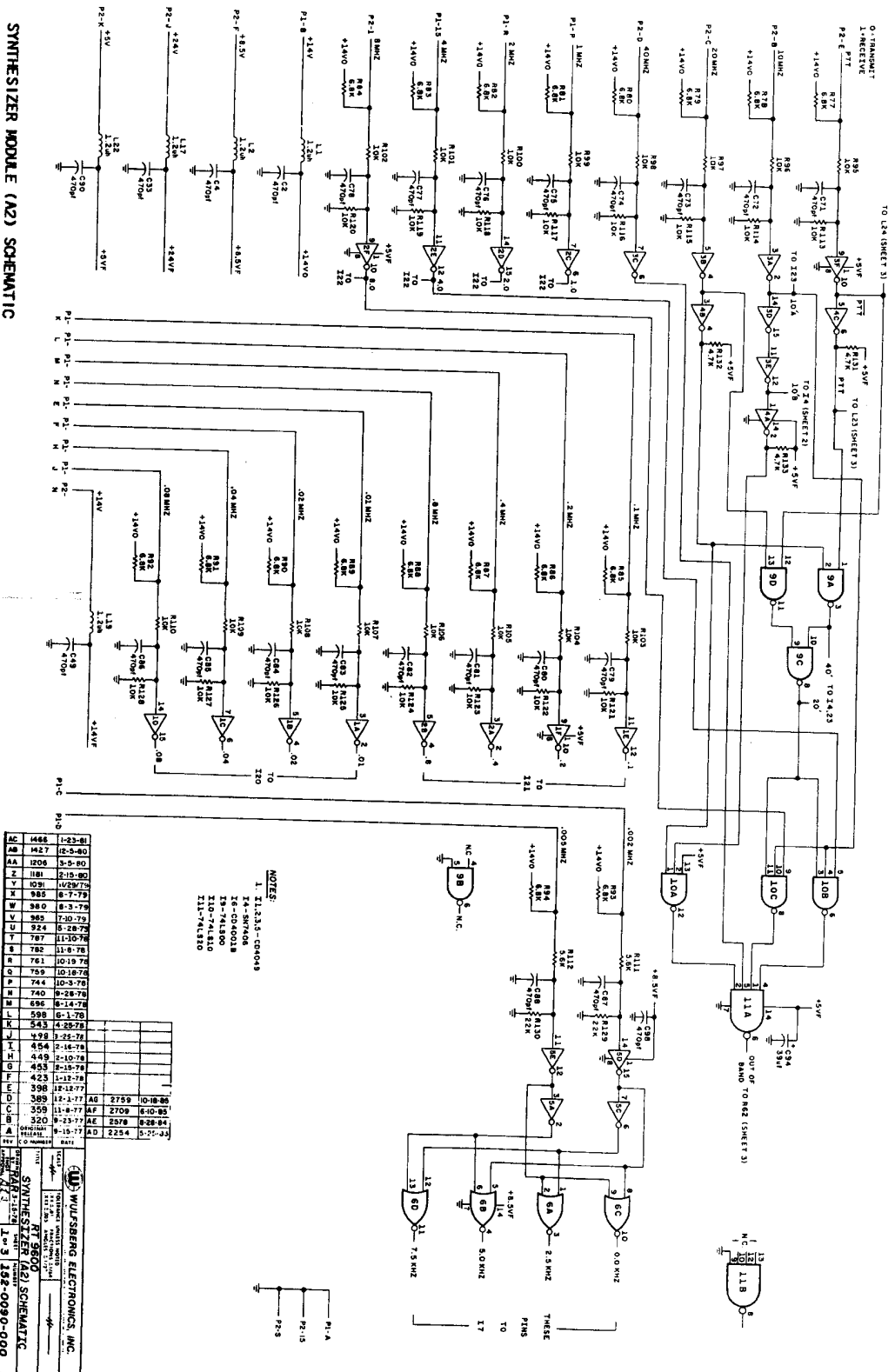
148-0095-000

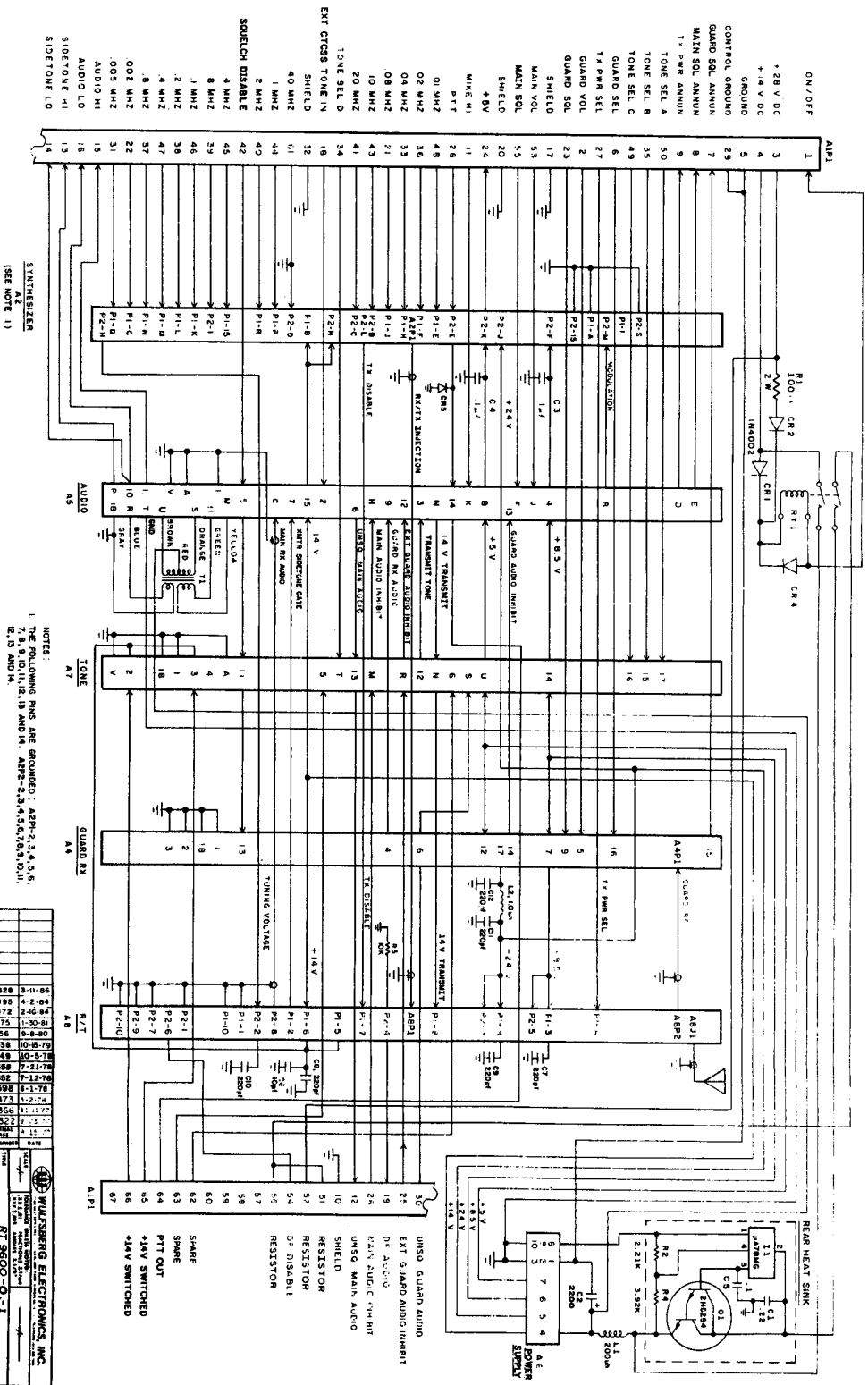
1-1

148-0095-000

SYNTHESIZER MODULE (A2) SCHEMATIC
(SHEET 1 OF 3)
FIGURE 5.1-9

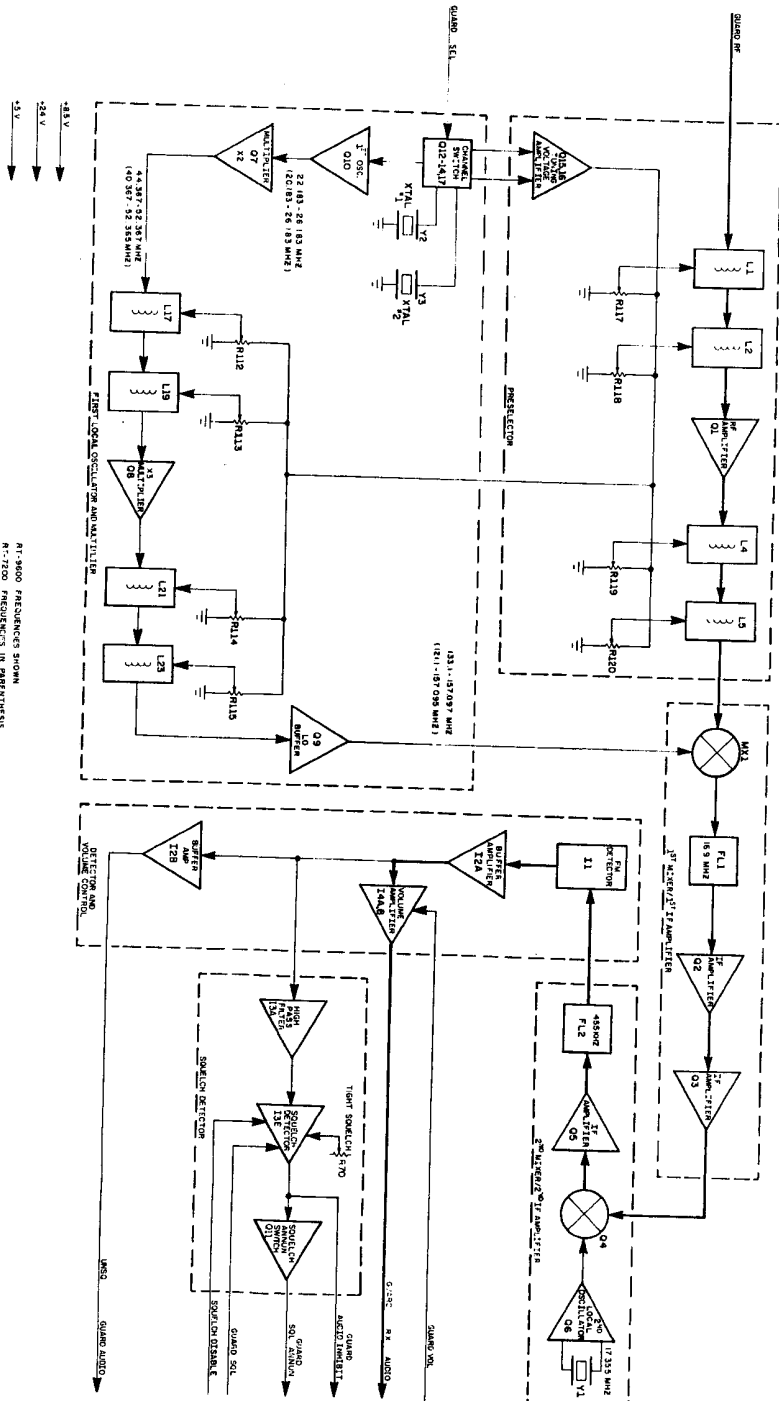
5-27/28
REV.D



CHASSIS (A1) (10 WATT AUDIO) SCHEMATIC
FIGURE 5.1-35-7/8
REV.D

5-9/10
REV.D

[illegible]



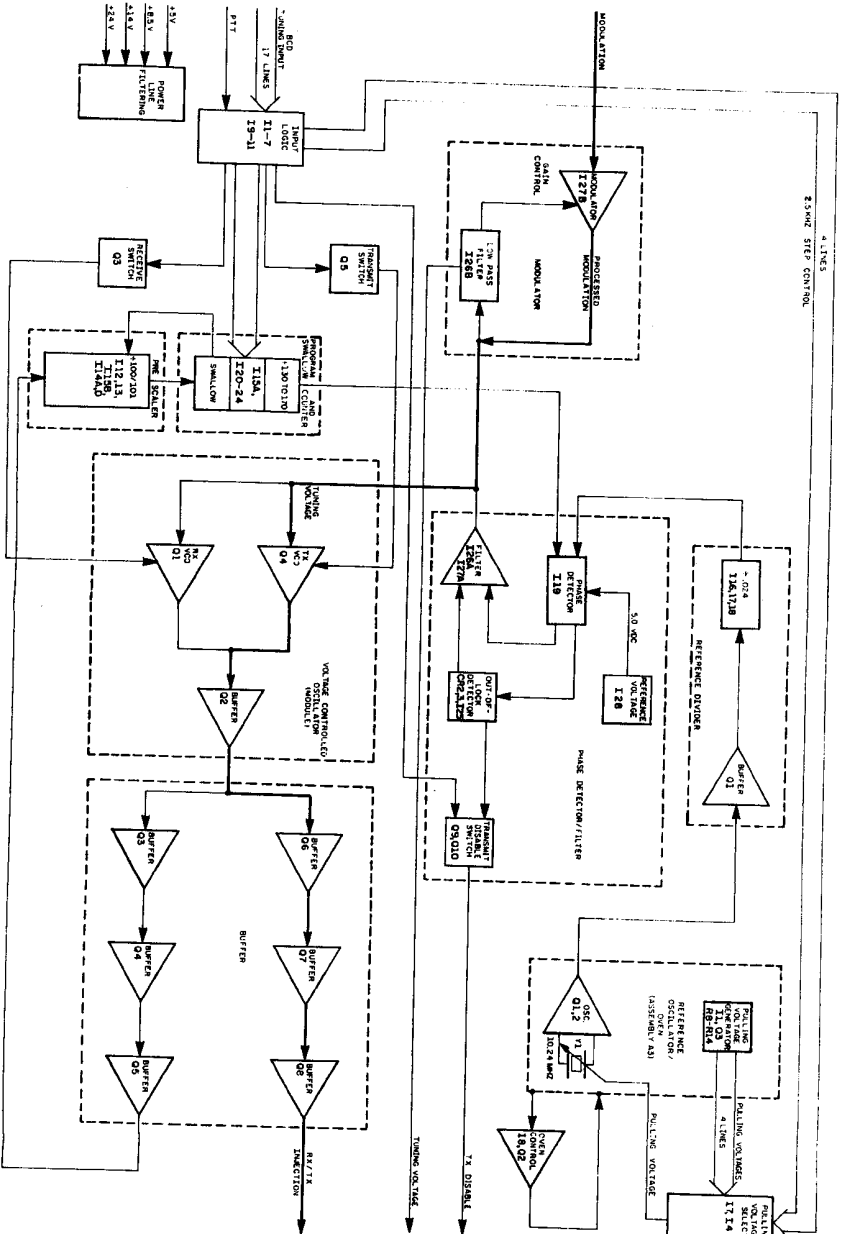
GUARD RECEIVER MODULE BLOCK DIAGRAM
FIGURE 3.7-1

3-51/52
REV. D

RT-9600 FREQUENCIES SHOWN
RT-7200 FREQUENCIES IN PARENTHESES

WILSBURG ELECTRONICS, INC.	
RT-9600 / RT-7200	GUARD RECEIVER BLOCK DIAGRAM
RT-9600 / RT-7200	1 of 1
RT-9600 / RT-7200	148-0109-000

3-39/40
REV.D



SYNTHESIZER BLOCK DIAGRAM
FIGURE 3.3-1

3-7/8
REV.D

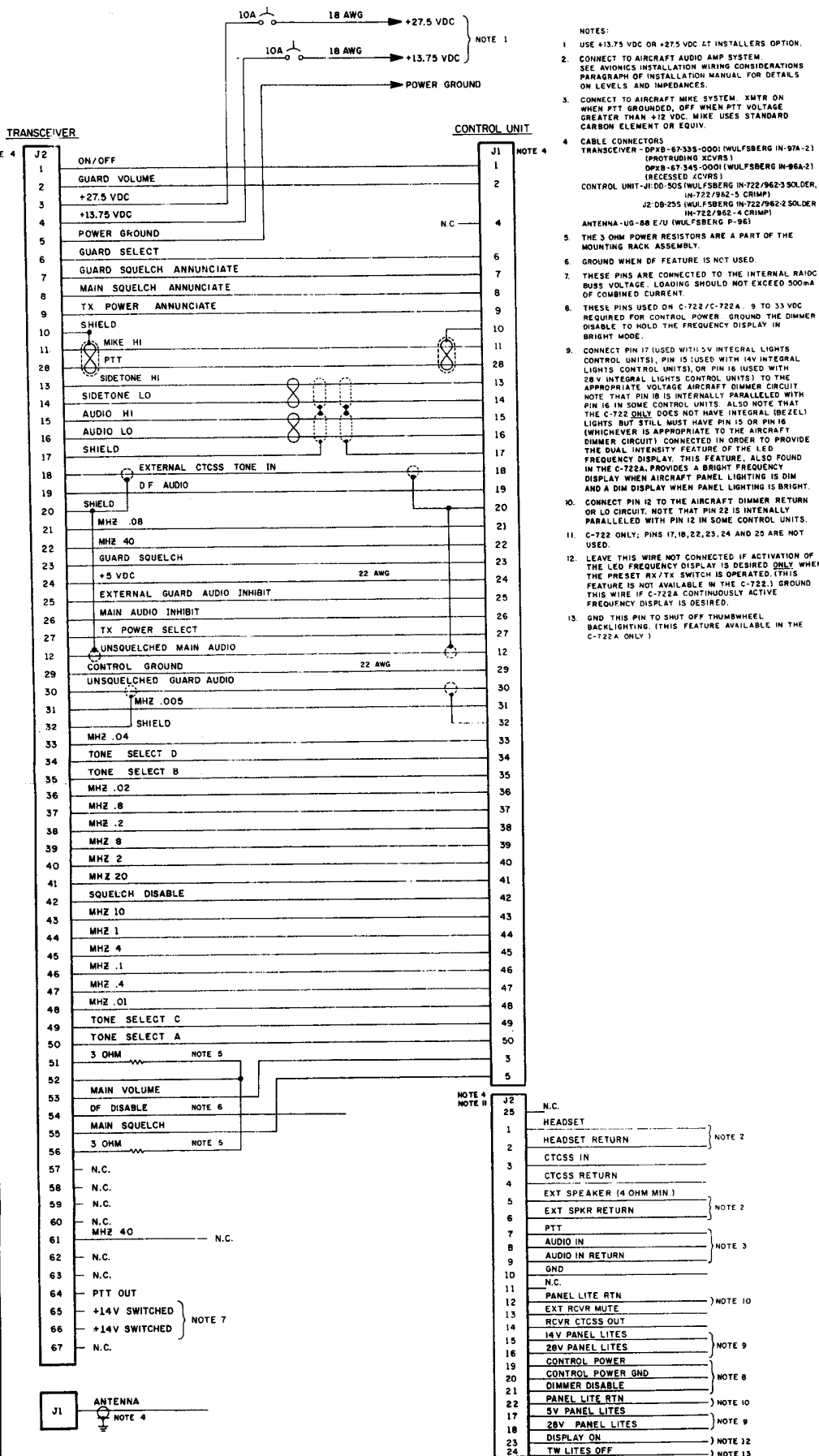
WILSON ELECTRONICS, INC.	
SYNTHESIZER BLOCK DIAGRAM	REV. 10-10-68
FIGURE 3.3-1	1-1-1
148-0105	1-1-1

3-27/28
REV.D

RT-7200 TO C-722/C-722A AND
ARC-513 (V): RT-5065 TO C-5422 INTERCONNECT DIAGRAM
FIGURE 2.7-3

2-37/38
REV.E

REV	DATE	BY	CHKD	APP'D
E	8080	11-8-82		
D	1925	7-16-82		
C	1898	6-2-82		
B	1743	12-2-81		
A	1743	8/7/80		
1	1743	8/7/80		
2	1743	8/7/80		
3	1743	8/7/80		
4	1743	8/7/80		
5	1743	8/7/80		
6	1743	8/7/80		
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13	1743	8/7/80		
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63	1743	8/7/80		
64	1743	8/7/80		
65	1743	8/7/80		
66	1743	8/7/80		
67	1743	8/7/80		



RT-7200, RT-9600, AM/ARC-513 (V)

Technical drawing of the front view of the Model 1000A. The drawing shows a rectangular device with various components and dimensions. Key features include:

- Dimensions:**
 - Overall width: 5.00 (127.0)
 - Overall height: 11.34 (288.04)
 - Top section width: 4.12 (104.93)
 - Top section height: 0.53 (13.46)
 - Internal section width: 5.19 (131.8)
 - Internal section height: 12.88 (327.53)
 - Bottom section width: 6.10 (154.8)
 - Bottom section height: 2.76 (70.1)
 - Bottom section width (inner): 4.5 (114.3)
 - Bottom section height (inner): 0.14 (3.56)
 - Bottom section width (outer): 1.5 (38.1)
 - Bottom section height (outer): 1.95 (49.5)
- Components and Labels:**
 - MILITARY DECAL (AS REQUIRED)
 - INTERNAL FREQUENCY LABEL (OPTION T46)
 - ANT. GAIN SECTONE
 - SERIALIZED NAME TAG
 - C.G. (Center of Gravity)
- Other Features:**
 - Four circular components (possibly screws or fasteners) are located along the top edge.
 - A rectangular component is located on the right side of the top section.
 - A rectangular component is located on the left side of the top section.
 - A rectangular component is located on the right side of the internal section.
 - A rectangular component is located on the left side of the internal section.
 - A rectangular component is located on the right side of the bottom section.
 - A rectangular component is located on the left side of the bottom section.

Technical drawing of the front view of a radio receiver. The drawing shows a rectangular case with a speaker grille on the left and a control panel on the right. The control panel includes a tuning dial, a volume knob, and several indicator lights. Dimensions are provided in inches and millimeters.

Dimensions (inches / millimeters):

- Overall width: 4.88 (123.95)
- Overall height: 2.44 (61.97)
- Speaker grille width: 2.06 (52.32)
- Speaker grille height: 4.12 (104.65)
- Control panel width: 5.06 (128.5)
- Control panel height: 2.71 (68.8)
- Control panel width (excluding speaker grille): 0.40 (10.2)
- Control panel height (excluding speaker grille): 1.70 (43.0)

Labels on the drawing:

- DT AUDIO POWER TUNING
- CA
- 2.71 (68.8)
- 0.40 (10.2)
- 1.70 (43.0)
- 5.06 (128.5)
- 2.06 (52.32)
- 4.12 (104.65)
- 2.44 (61.97)
- 4.88 (123.95)

RT-7200, RT-9600 (WITH RECESSED CONNECTOR),
RT-5052/ARC-513 (V) AND RT-5065/ARC-513 (V) OUTLINE DIMENSIONS
FIGURE 2.4-1

2-9/10
REV.E

MILITARY NOMENCLATURE:
RECEIVER-TRANSMITTER, RADIO
RT-5052 / ARC-513 (V) OR
RT-5065 / ARC-513 (V)

H	1593	7-10-81
G	818	1-2-79
F	686	8-2-76
E	603	6-8-78
D	362	11-9-77
C	320	9-30-77
B	518	9-23-77
A	ORIGINAL	8-29-77
REV	CD NUMBER	DATE

DATE	TITLE	SKETCH	 WULSBERG ELECTRONICS, INC. 1000 WEST 10TH AVENUE, SUITE 100, DENVER, COLORADO 80202
DATE	TITLE	SKETCH	
10/20/81	OUTLINE DWG. VHF FM TRANCEIVER		
10/20/81	1 of 1		

147-0046-000

Technical drawing of the RT-9600 receiver, showing front and side views with dimensions in inches and millimeters.

Front View Dimensions:

- Overall Width: 5.00 (127.0)
- Top Mounting Hole Spacing: 5.3 (134.6)
- Top Mounting Hole Diameter: .48 (11.93)
- Internal Frequency Label: INTERNAL FREQUENCY LABEL (OPTIONAL TAB)
- Military Decal: MILITARY DECAL (AS REQUIRED)
- RT-9600 Model Number
- Serialized Name Tag: SERIALIZED NAME TAG
- Bottom Mounting Hole Spacing: 4.12 (104.65)
- Bottom Mounting Hole Diameter: .44 (11.17)
- Bottom Mounting Hole Spacing: 8.10 (205.8)
- Bottom Mounting Hole Diameter: 1.95 (49.5)

Side View Dimensions:

- Overall Depth: 11.34 (288.04)
- Top Mounting Hole Spacing: 1.5 (38.1)
- Top Mounting Hole Diameter: .14 (3.56)
- Internal Frequency Label: INTERNAL FREQUENCY LABEL (OPTIONAL TAB)
- Military Decal: MILITARY DECAL (AS REQUIRED)
- RT-9600 Model Number
- Serialized Name Tag: SERIALIZED NAME TAG
- Bottom Mounting Hole Spacing: 6.10 (154.9)
- Bottom Mounting Hole Diameter: .44 (11.17)
- Bottom Mounting Hole Spacing: 12.52 (318.3)
- Bottom Mounting Hole Diameter: 1.95 (49.5)
- Bottom Mounting Hole Spacing: 13.27 (337.06)
- Bottom Mounting Hole Diameter: 2.76 (70.1)
- Bottom Mounting Hole Spacing: 4.5 (114.3)

1. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.
2. UNIT CONNECTORS:
ANTENNA: UG-1094/U OR EQUIV.
REAR: DPXB-67-33P-0001 OR EQUIV.

2-11/12
REV.E

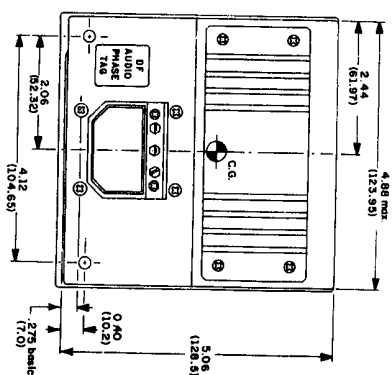
[illegible]

Figure 10.10 shows the dimensions of a Z-section. The dimensions are as follows:

- Total height: 11.85 in (300.99 mm)
- Flange width: 1.77 in (45.20 mm)
- Web thickness: 0.32 in (8.13 mm)
- Distance from top flange to area centroid: 5.46 in (139.28 mm)
- Distance from bottom flange to area centroid: 5.32 in (135.13 mm)
- Distance from top flange to web centerline: 2.0 in (50.8 mm)
- Distance from web centerline to area centroid: 4.77 in (121.1 mm)
- Distance from bottom flange to web centerline: 4.31 in (109.52 mm)
- Distance from web centerline to bottom flange: 1.087 in (27.6 mm)
- Distance from web centerline to top flange: 1.327 in (33.7 mm)

<u>ELECTRICAL</u>	
FREQUENCY	140 TO 180 MHZ
VSWR	2.0:1 MAX
RADIATION PATTERNS	OMNIDIRECTION IN AZIMUTH COSINUSOIDAL IN ELEVATION
POLARIZATION	VERTICAL
IMPEDANCE	50 OHMS
POWER	250 WATTS
LIGHTNING PROTECTION	DC PATH TO GROUND / MIL-A-9034C

WEIGHT	2.8 LBS (1.2 KG)
DIMENSIONS	HEIGHT 11.85 INCHES LENGTH 10.87 INCHES WIDTH 3.25 INCHES
MATERIAL	AS36-16 ALUMINUM ALLOY CASTING 8 EPOXY FIBERGLASS
FINISH	SCOTCH RESISTANT EPOXY ENAMEL, COLOR-GLOSS WHITE
CONNECTOR	TYPE BNC
CABLE	M-0.85 AT 35,000 FEET 16 LB

TEMPERATURE	-100° F TO +300° F -73° C TO +150° C
VIBRATION	10 Gs
ALTITUDE	UP TO 60,000 FEET
SHOCK	30 Gs
SLIDE LOAD	12 PSI

MIL: MIL-E-5400H, MIL-E-5272H, MIL-A-7772 B (ASG), MIL-A-6271A, MIL-A-9094C
TSO: C37b, C38b

1. MIL TYPE NUMBER: AS-5103/ARC-513
2. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS
3. APPROVED VENDOR: SENSOR SYSTEMS P/N:SS-8280-4

REV		C D NUMBER		DATE	
A		ORIGINAL		8-29-77	
B		316		9-25-77	
C		362		11-9-77	
D		696		2-2-78	
E		1553		9-27-81	
F		1666		9/21/82	
G		1966		8-23-82	

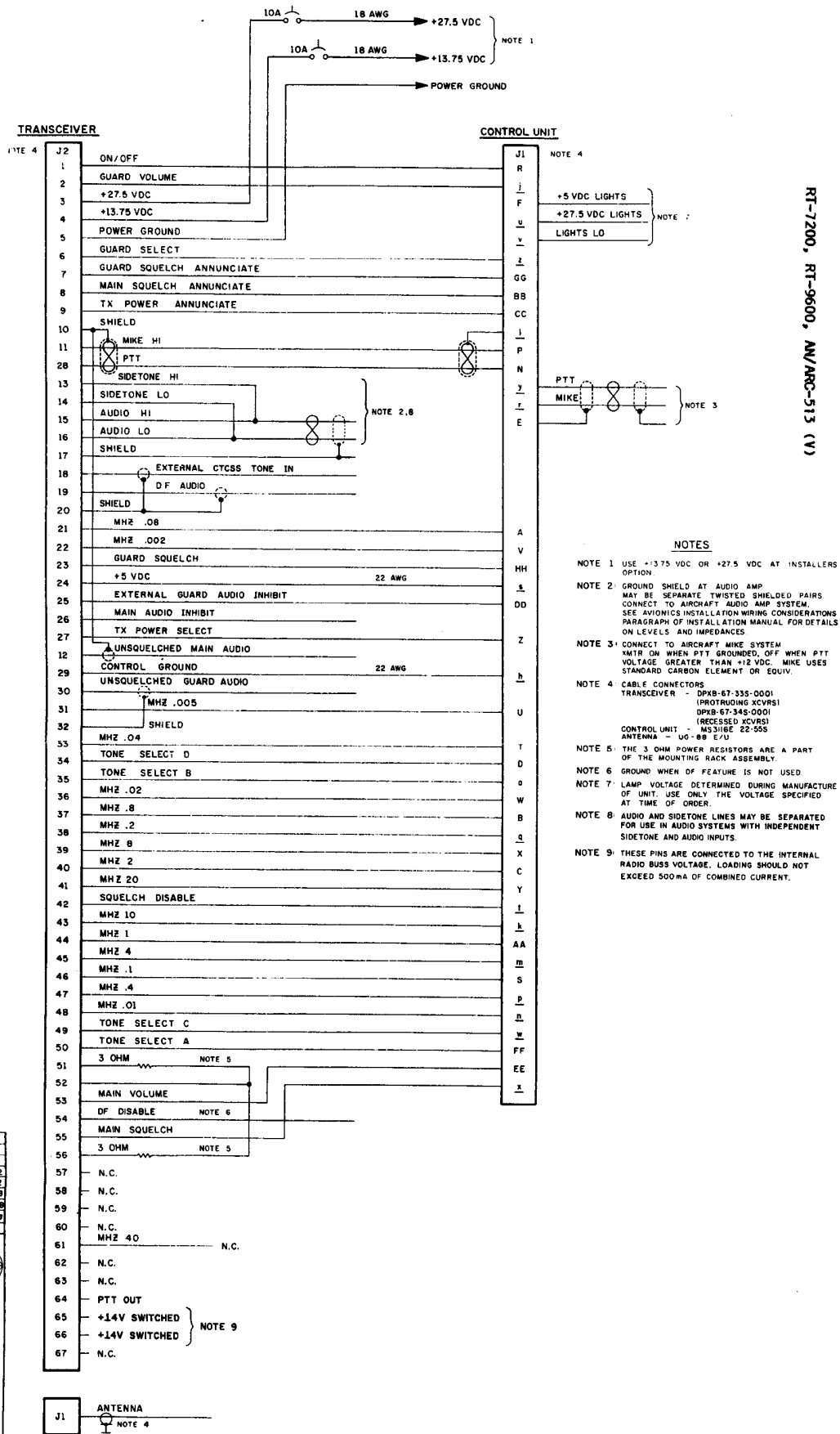
WULFSBERG ELECTRONICS, INC. 10000 WILSON BLVD., SUITE 100 VAN NUYS, CALIF. 91411 (818) 708-0000		SERIAL +-----+ 1553.000 (443000) 2194 JAN 1010 MODEL 1156	TITLE AT-960 VHF (FM) ANTENNA (140-180 MHZ)
SPECIAL C.D. (Link #) 026	SHEET 1 of 1	NUMBER 121-0010-000	

2-25/26
REV.E

RT-9600 TO C-960 AND ARC-513 (V): RT-5052 TO C-5333,
RT-5052 TO C-5368, RT-5052 TO C-5413 INTERCONNECT DIAGRAM
FIGURE 2.7-1

2-33/34
REV. E

RT-7200, RT-9600, AN/ARC-513 (V)



REV	NO	DATE	DESCRIPTION
A	1	7-16-82	INITIAL RELEASE
B	2	6-11-82	REVISION
C	3	10-5-79	REVISION
D	4	10-4-78	REVISION
E	5	3-28-78	REVISION

WULFBERG ELECTRONICS, INC.

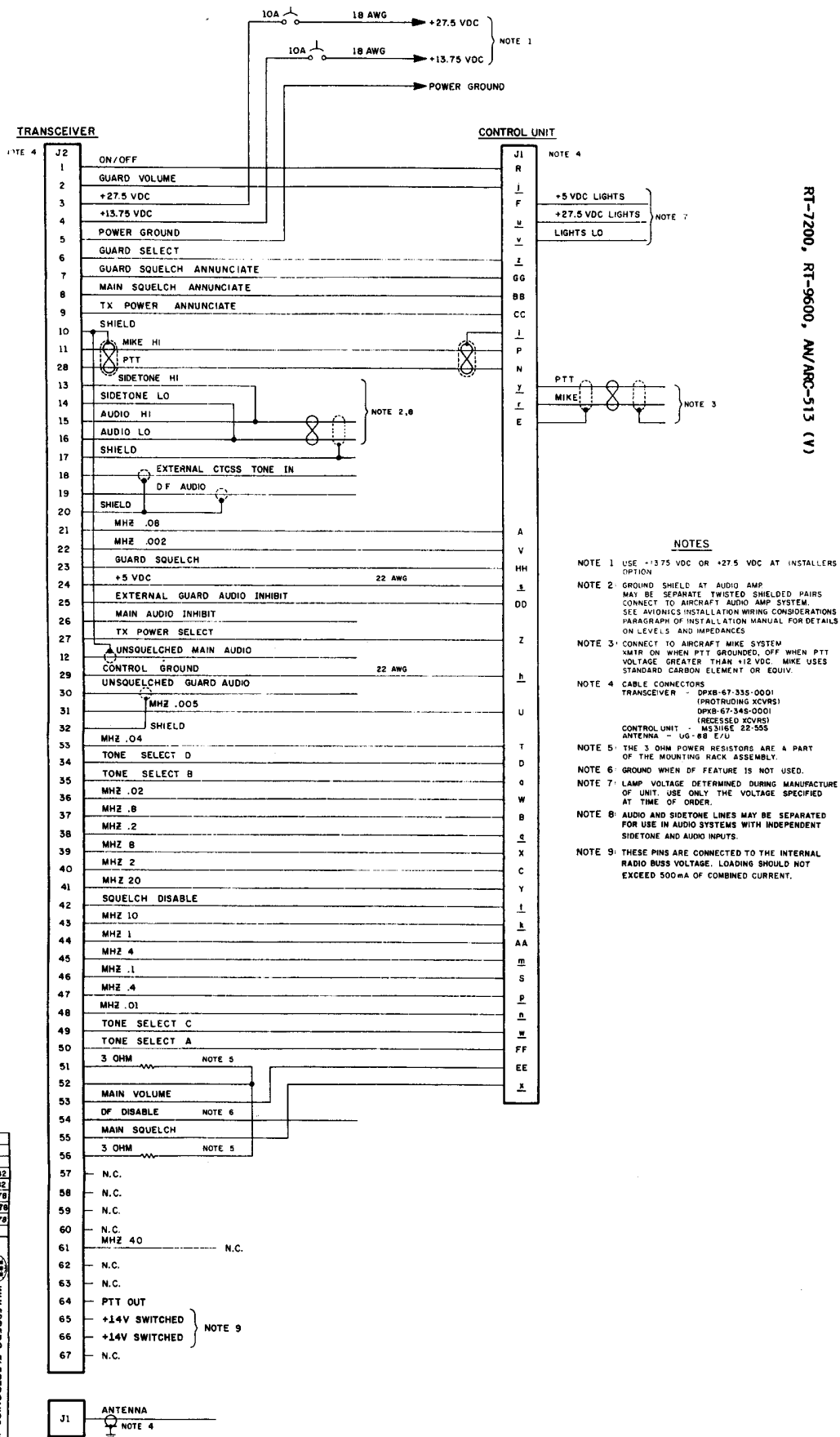
RT-9600/C-960
INTERCONNECT DIAGRAM

147-0059-000

RT-9600 TO C-960 AND ARC-513 (V): RT-5052 TO C-5333,
RT-5052 TO C-5368, RT-5052 TO C-5413 INTERCONNECT DIAGRAM
FIGURE 2.7-1

2-33/34
REV. E

RT-7200, RT-9600, AN/ARC-513 (V)



REV	DATE	BY	CHKD	APP'D
E	1925	7-16-82		
D	1898	6-11-82		
C	749	10-5-78		
B	749	10-4-78		
A	749	5-29-78		
1	1/3	1/1		
2	1/3	1/1		
3	1/3	1/1		
4	1/3	1/1		
5	1/3	1/1		
6	1/3	1/1		
7	1/3	1/1		
8	1/3	1/1		
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65	1/3	1/1		
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67	1/3	1/1		

WILSBERG ELECTRONICS, INC.

RT-9600/C-960
INTERCONNECT DIAGRAM

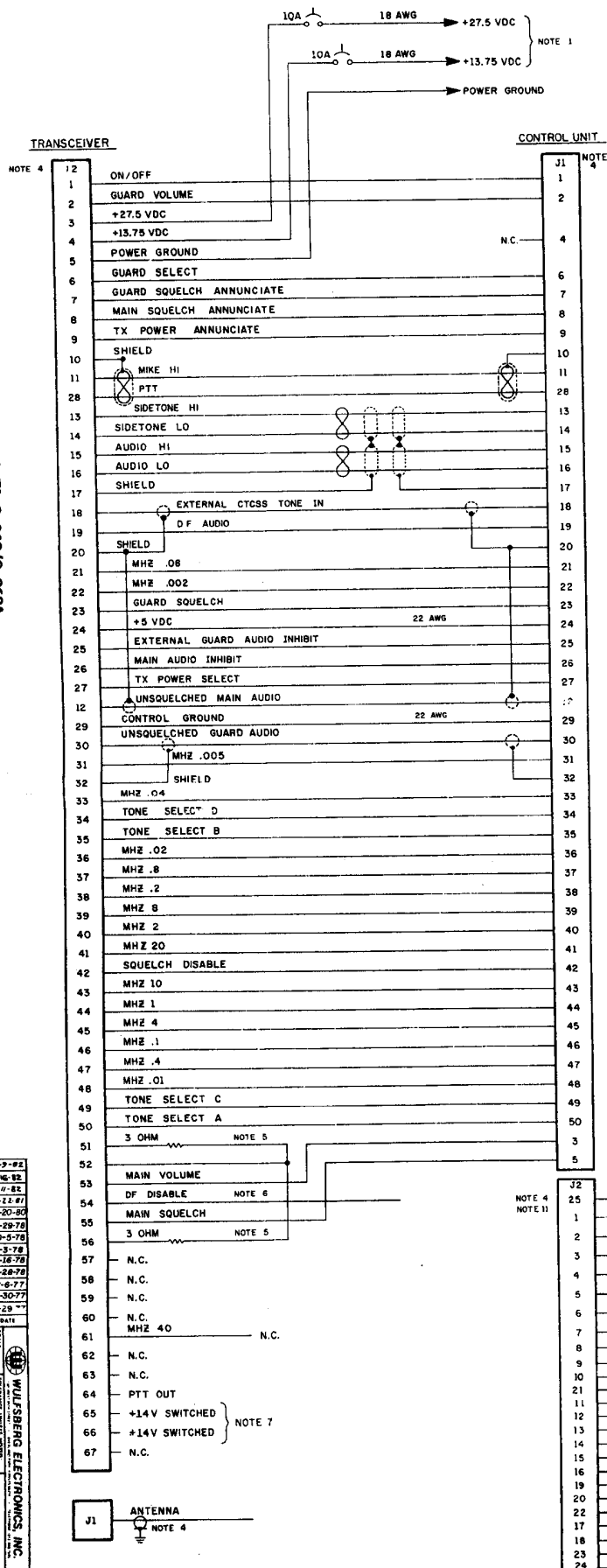
147-0039-000

RT-9600 TO C-920, RT-9600 TO C-961, RT-9600 TO C-962/C-962A
AND ARC-513 (V): RT-5052 TO C-5421 INTERCONNECT DIAGRAM
FIGURE 2-7-2

2-35/36
REV. E

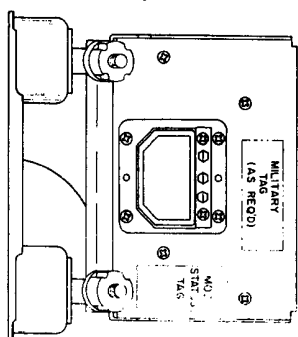
N	LOGO	7-7-92
NA	1925	7-16-92
L	1850	6-11-92
K	1743	12-22-91
J	1279	5-20-90
H	798	11-29-79
G	749	10-5-79
F	638	7-3-78
E	497	3-16-78
D	469	2-28-78
C	390	12-6-77
B	385	11-30-77
A	380	9-29-77
REV	1.0	8-29-77

WULFSBERG ELECTRONICS, INC.	147-0049-000
147-0049-000	147-0049-000



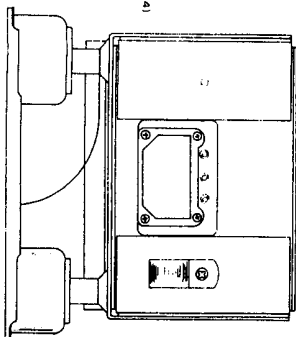
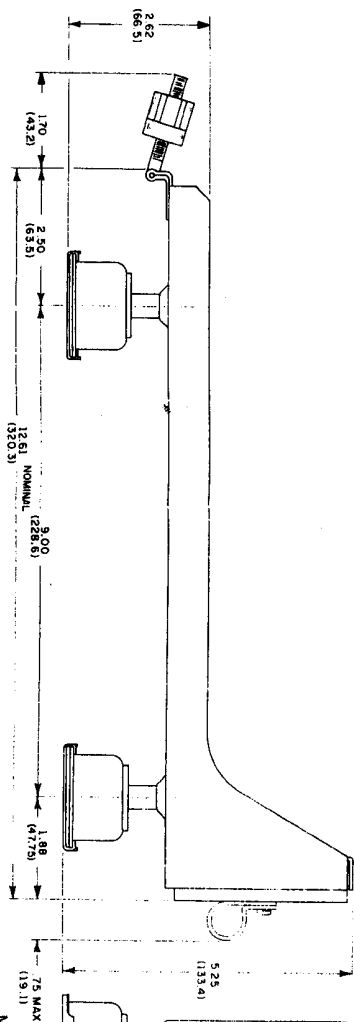
- NOTES**
- USE +13.75 VDC OR +27.5 VDC AT INSTALLERS OPTION.
 - CONNECT TO AIRCRAFT AUDIO AMP SYSTEM. SEE AVIONICS INSTALLATION WIRING CONSIDERATIONS PARAGRAPH OF INSTALLATION MANUAL FOR DETAILS ON LEVELS AND IMPEDANCES.
 - CONNECT TO AIRCRAFT MIKE SYSTEM. XMITR ON WHEN PTT GROUNDED, OFF WHEN PTT VOLTAGE GREATER THAN +12 VDC. MIKE USES STANDARD CARBON ELEMENT OR EQUIV.
 - CABLE CONNECTORS
TRANSCIVER - DPX8-67-335-0001 (WULFSBERG IN-974-7 (PROTRUDING XCVR))
DPX8-67-345-0001 (WULFSBERG IN-964-7 (RECESSED XCVR))
CONTROL UNIT-J100-505 (WULFSBERG IN-722/962-3 SOLDEP IN-722/962-3 CRIMP)
J2-DB-255 (WULFSBERG IN-722/962-2 SOLDEP IN-722/962-4 CRIMP)
 - ANTENNA-UG-88 E/U (WULFSBERG P-961)
 - THE 3 OHM POWER RESISTORS ARE A PART OF THE MOUNTING RACK ASSEMBLY.
 - GROUND WHEN DF FEATURE IS NOT USED.
 - THESE PINS ARE CONNECTED TO THE INTERNAL RADIO BUSS VOLTAGE. LOADING SHOULD NOT EXCEED 500mA OF COMBINED CURRENT.
 - THESE PINS USED ON C-962/C-962A ONLY. 9 TO 33 VDC REQUIRED FOR CONTROL POWER. GROUND THE DIMMER DISABLE TO HOLD THE FREQUENCY DISPLAY IN BRIGHT MODE.
 - CONNECT PIN 17 (USED WITH 5V INTEGRAL LIGHTS CONTROL UNITS), PIN 15 (USED WITH 14V INTEGRAL LIGHTS CONTROL UNITS) TO THE APPROPRIATE VOLTAGE AIRCRAFT DIMMER CIRCUIT. NOTE THAT PIN 18 IS INTERNALLY PARALLELED WITH PIN 16 IN SOME CONTROL UNITS. ALSO NOTE THAT THE C-920 OR C-961 MUST HAVE ITS LIGHT VOLTAGE SELECTOR SWITCH IN THE APPROPRIATE POSITION. ADDITIONALLY NOTE THAT THE C-962 ONLY DOES NOT HAVE INTEGRAL (BEZEL) LIGHTS BUT STILL MUST HAVE PIN 15 OR PIN 16 (WHICHEVER IS APPROPRIATE TO THE AIRCRAFT DIMMER CIRCUIT) CONNECTED IN ORDER TO PROVIDE THE DUAL INTENSITY FEATURE OF THE LED FREQUENCY DISPLAY. THIS FEATURE, ALSO FOUND IN THE C-962A, PROVIDES A BRIGHT FREQUENCY DISPLAY WHEN AIRCRAFT PANEL LIGHTING IS DIM AND A DIM DISPLAY WHEN PANEL LIGHTING IS BRIGHT.
 - CONNECT PIN 12 TO THE AIRCRAFT DIMMER RETURN OR LO CIRCUIT. NOTE THAT PIN 27 IS INTERNALLY PARALLELED WITH PIN 12 IN SOME CONTROL UNITS.
 - C-961/C-920/C-962 J2 PINS 17, 18, 22, 23, 24 & 25 ARE NOT USED.
 - LEAVE THIS WIRE NOT CONNECTED IF ACTIVATION OF THE LED FREQUENCY DISPLAY IS DESIRED ONLY WHEN THE PRESET RX/TX SWITCH IS OPERATED. THIS FEATURE IS NOT AVAILABLE IN THE C-962. GROUND THIS WIRE IF C-962A CONTINUOUSLY ACTIVE FREQUENCY DISPLAY IS DESIRED. THIS NOTE DOES NOT APPLY TO THE C-920 OR C-961.
 - AND THIS PIN TO SHUT OFF THUMBWHEEL BACKLIGHTING (THIS FEATURE AVAILABLE IN THE C-962A ONLY).

RT-7200, RT-9600, AN/ARC-513 (V)

[illegible]

NOTES:

1. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.



**MILITARY NOMENCLATURE:
MOUNTING BASE, ELECTRICAL EQUIPMENT
MT-5178/ARC-513**

MT-5178/ARC-513 (V) IN96/IN97 SHOCKMOUNT OUTLINE DRAWING
FIGURE 2.3-1

2-5/6
REV.E

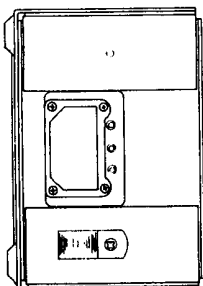
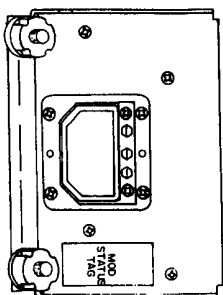
[illegible]

Technical drawing of a rectangular plate with dimensions and mounting details. The plate is oriented vertically. Dimensions are given in inches (IN) and millimeters (MM).

- Overall width: 4.125 (104.8)
- Overall height: 5.125 (130.2)
- Four circular mounting holes are located at the corners, with a diameter of 0.188 (4.77).
- Four mounting screws are indicated, with a note: "0.188 (4.77) DIAMETER HOLES FOR NO. 8-32 MOUNTING SCREWS - 4 PLACES".
- The drawing includes a top view and a side view showing the plate's profile and mounting hardware.

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in inches and millimeters. The drawing includes a side view and a top view. Key dimensions include:

- Overall length: 12.61 (320.3) NOMINAL
- Overall width: 7.6 MAX (193.1)
- Overall height: 1.14 MAX (28.9)
- Dimensions from top left: 1.70 (43.2), 2.50 (63.5)
- Reference dimension: 0.32 REF (8.1)
- Dimensions from bottom right: 3.6 MAX (91.4), 1.88 (47.75)
- Note: NOTE 2



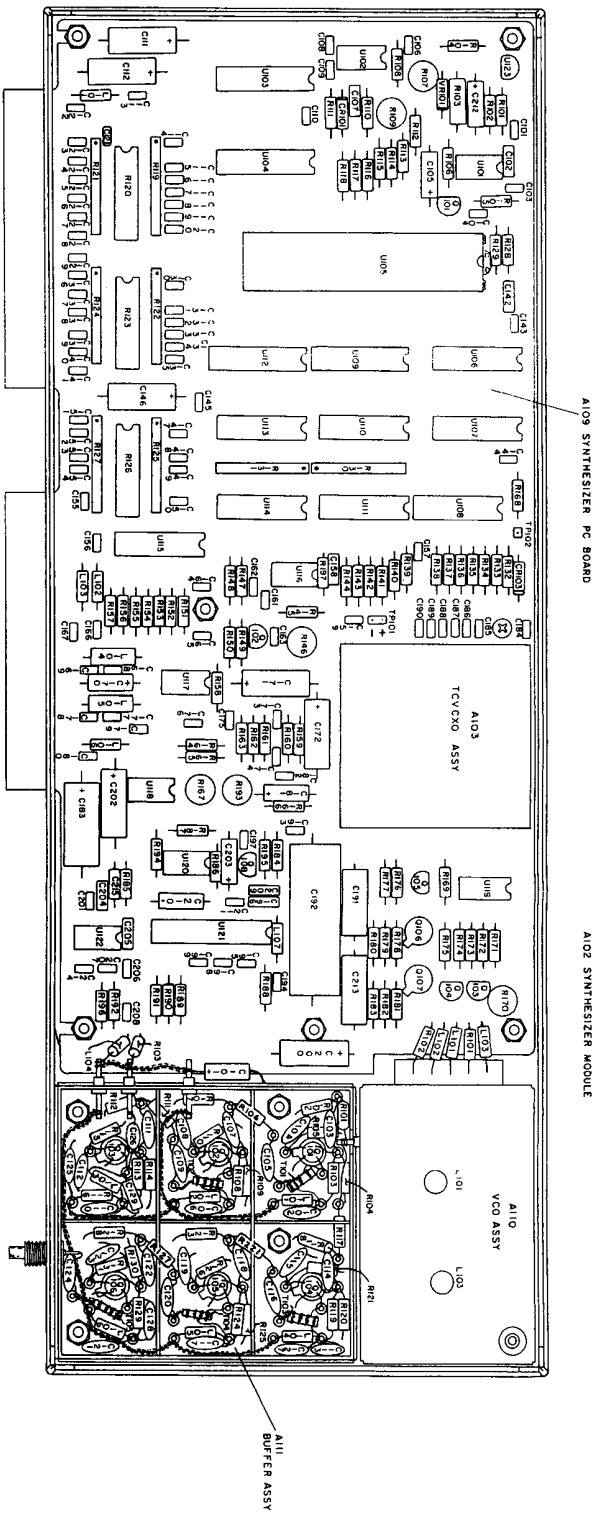
1. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS.
2. PROTRUDING CONNECTOR DIMENSION APPLIES TO THE N-92A MOUNT ONLY.

IN96A/IN97A RIGIDMOUNT OUTLINE DRAWING
FIGURE 2.3-2

2-7/8
REV.E

[illegible]

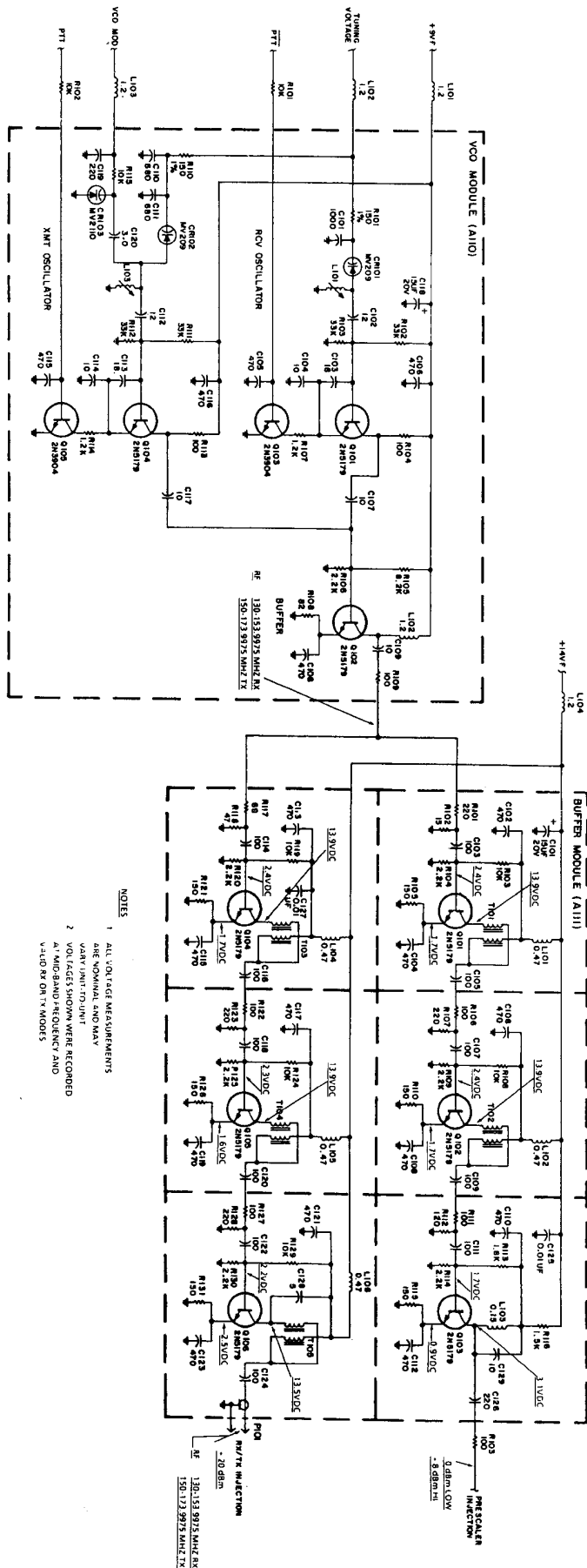
RT-9600F INSTALL/MAINTENANCE ADDENDUM



Fastlock Synthesizer Module (A102) Component Locator
Figure 5.1-1

5-3/5-4

Nov 1/89

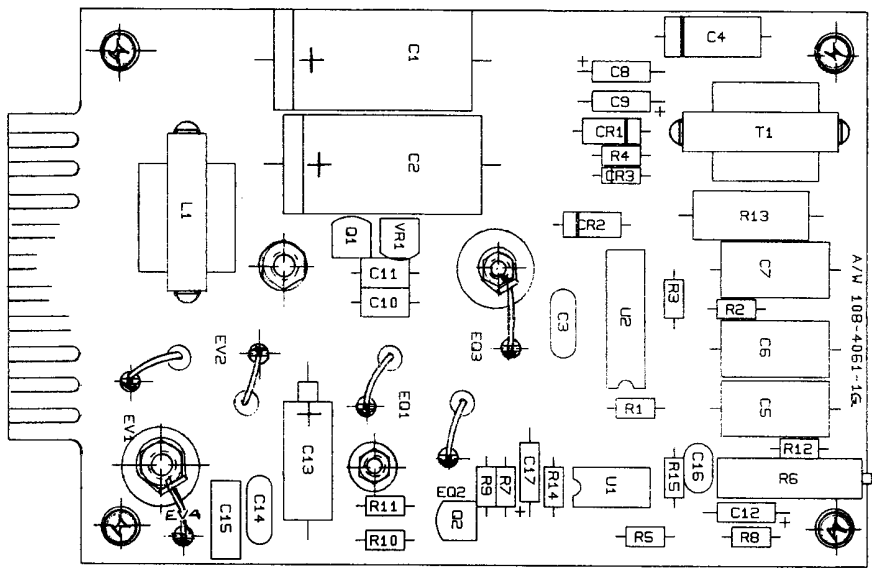


- NOTES
1. ALL VOLTAGE MEASUREMENTS ARE NOMINAL AND MAY VARY UNIT TO UNIT
 2. VOLTAGES SHOWN WERE RECORDED AT MID-BAND FREQUENCY AND VALID ON TX MODES

Fastlock Synthesizer (A102) Schematic
Figure 5.1-2 (Sheet 2 of 2)

5-7/5-8

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Power Supply Module (A6) Component Locator
Figure 5.1.3
5-9/5-10

Nov 1/89

