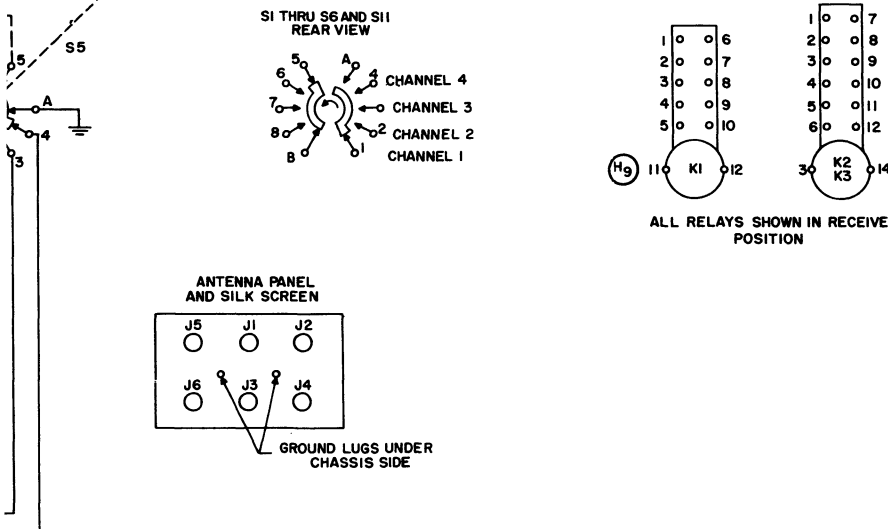
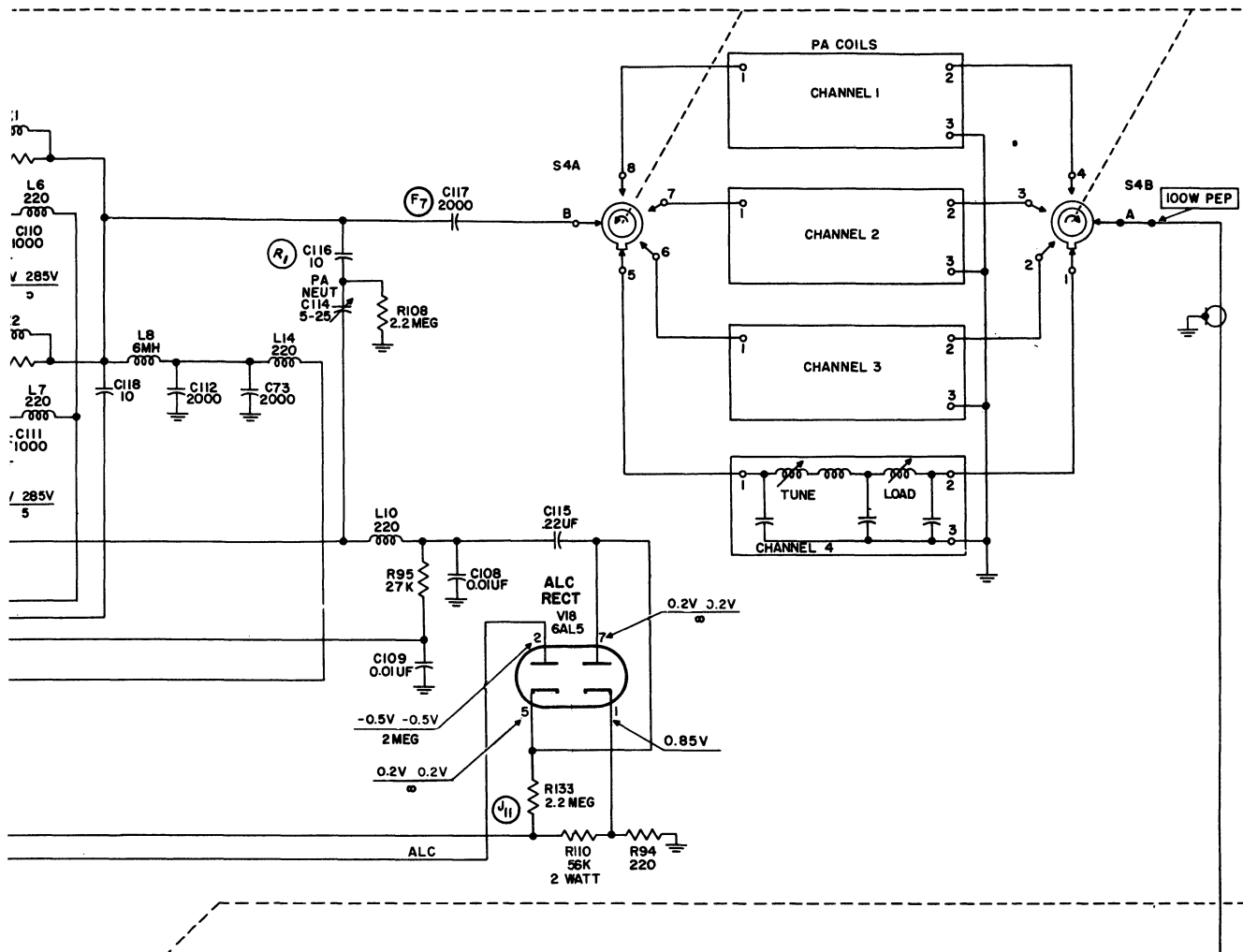


SECTION VII ILLUSTRATIONS

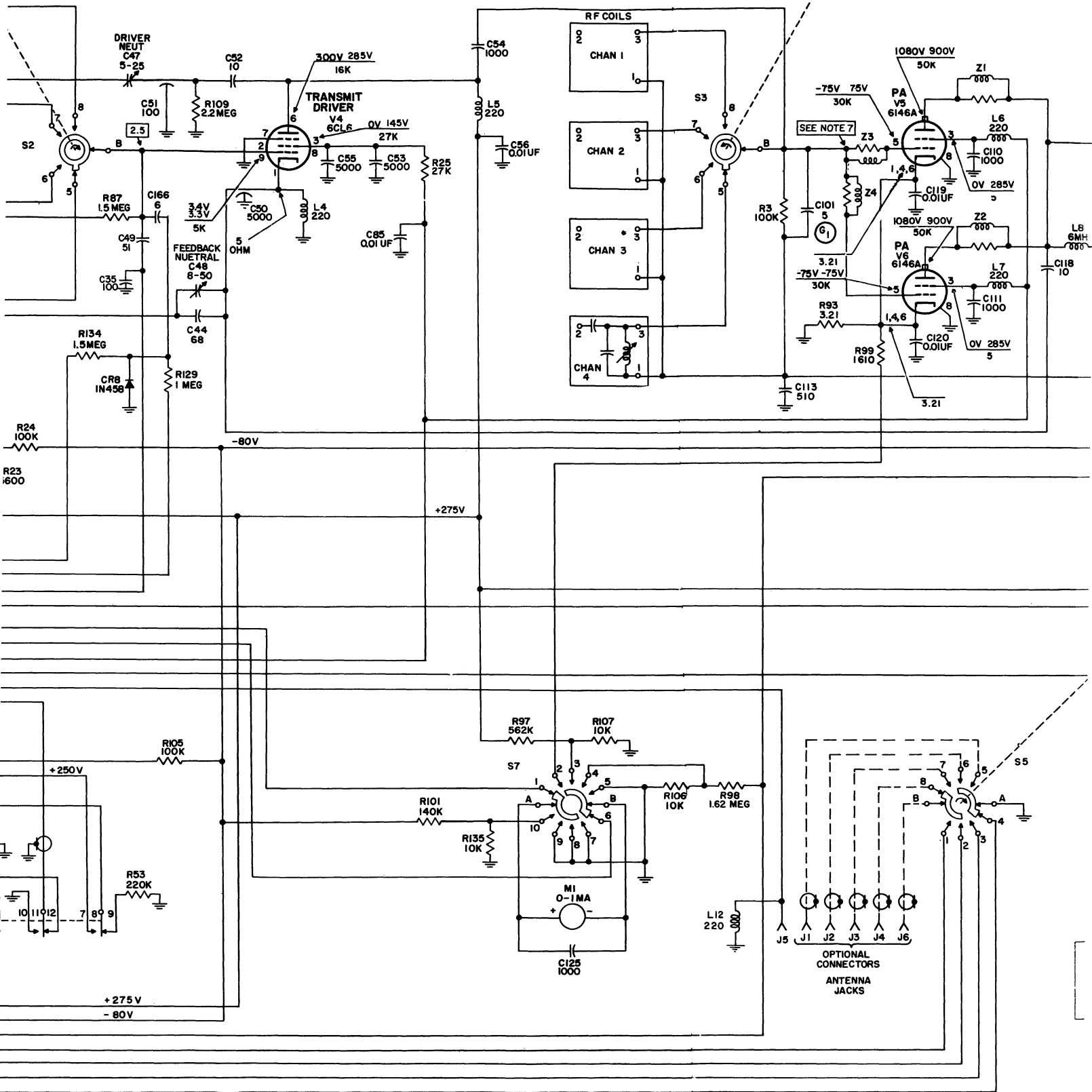
SECTION VII Illustrations

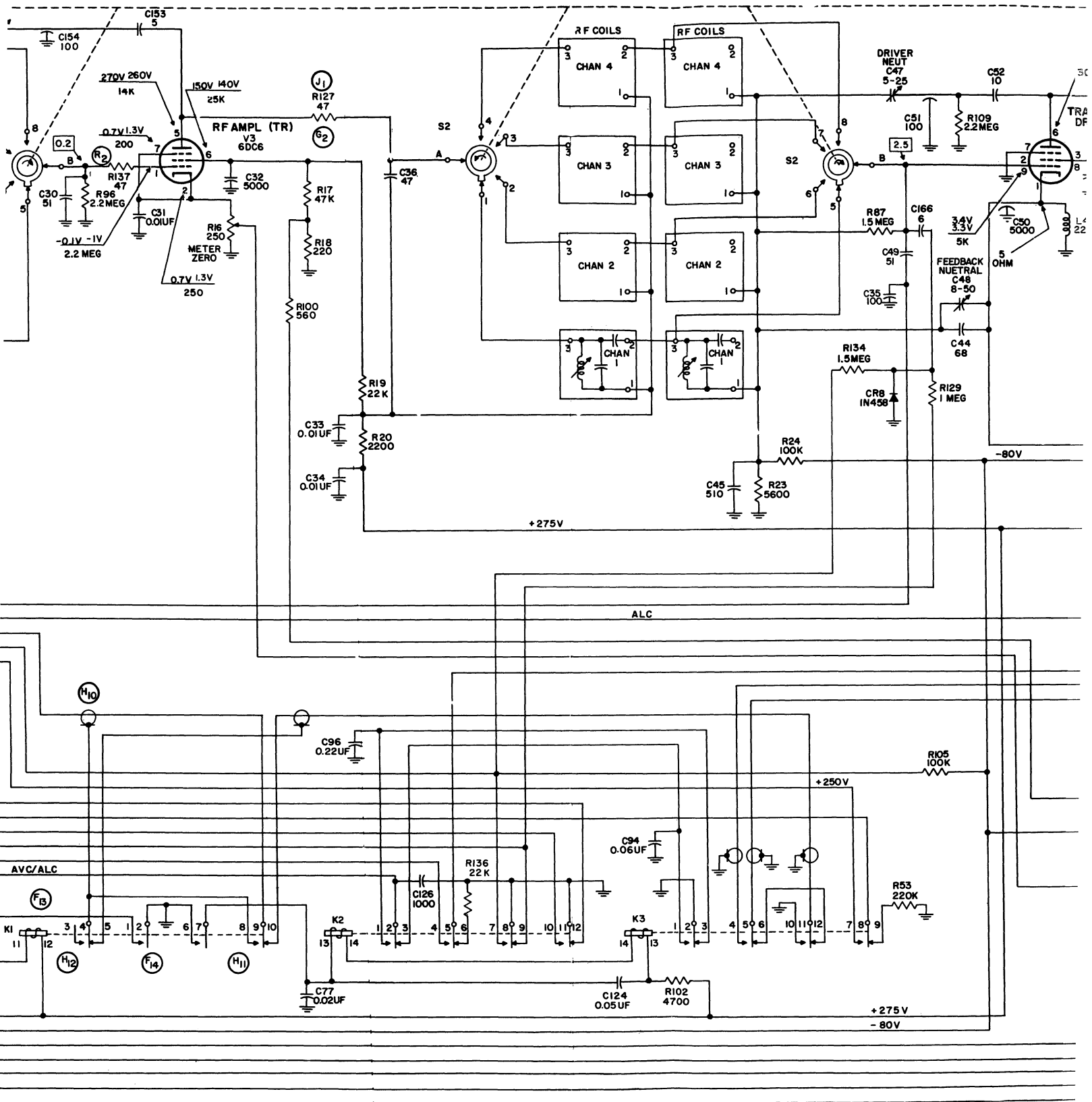


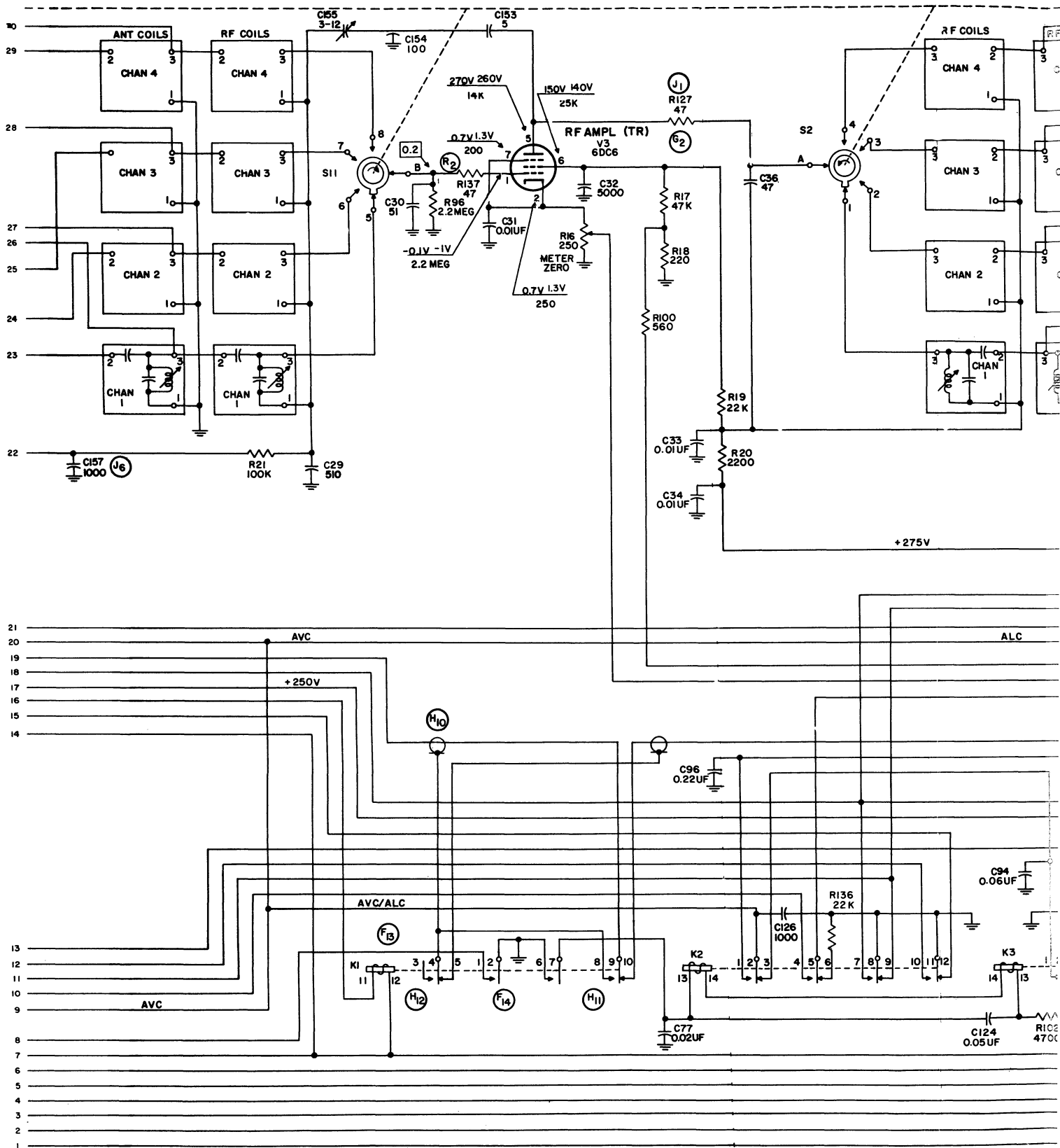
- NOTES: 1. RESISTANCE READINGS ARE BELOW LINE IN BLACK.
2. VOLTAGE READINGS ARE ABOVE LINE IN RED AND BLACK; RED INDICATES TRANSMIT, BLACK INDICATES RECEIVE.
3. ALL VOLTAGE AND RESISTANCE READINGS WERE TAKEN WITH A 20K OHM/VOLT METER, POWER DISCONNECTED FOR RESISTANCE READINGS, POWER ON FOR VOLTAGE READINGS. CONTROL KNOB SETTINGS AS FOLLOWS: VOX GAIN, FULL CCW; ANTI-TRIP, FULL CCW; METER SWITCH, PA CATH MA; RECEIVER AUDIO GAIN, 9 O'CLOCK POSITION; SPEAKER, OFF; TRANSMIT AUDIO, FULL CW; TUNE-OPERATE, OPERATE; HANDSET OFF CRADLE; ALL POWER SWITCHES ON.
4. VOLTAGE AND RESISTANCE READINGS ARE NOMINAL AND WILL VARY FROM EQUIPMENT TO EQUIPMENT.
5. APPROXIMATE GAIN PER STAGE VALUES IN RED BOXES ARE OBTAINED WITH 0.1V, 1500CPS SIGNAL INPUT TO C146 (ON REAR OF 32RS-1) AND J5 (ANTENNA TERMINAL) TERMINATED IN A 52 OHM LOAD.
6. UNLESS OTHERWISE INDICATED, ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE IN MICROMICROFARADS, ALL INDUCTANCE VALUES ARE IN MICROHENRYS.
7. VOLTAGE AT PA GRID IS 130 VOLTS WITH PA TUBES REMOVED AND 50 VOLTS WITH TUBES IN CIRCUIT.
8. THE LOCATION AND SIZE OF C151 AND C159 IS CHOSEN DURING FINAL TEST TO PROVIDE BALANCED MODULATION.
9. RECEIVER MIXER PLATE AND SCREEN VOLTAGES VARY WITH CHANNEL CRYSTAL ACTIVITY.

Figure 7-1. Over-all Schematic Diagram of 32RS-1

CHANNEL SELECTOR

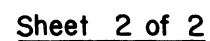




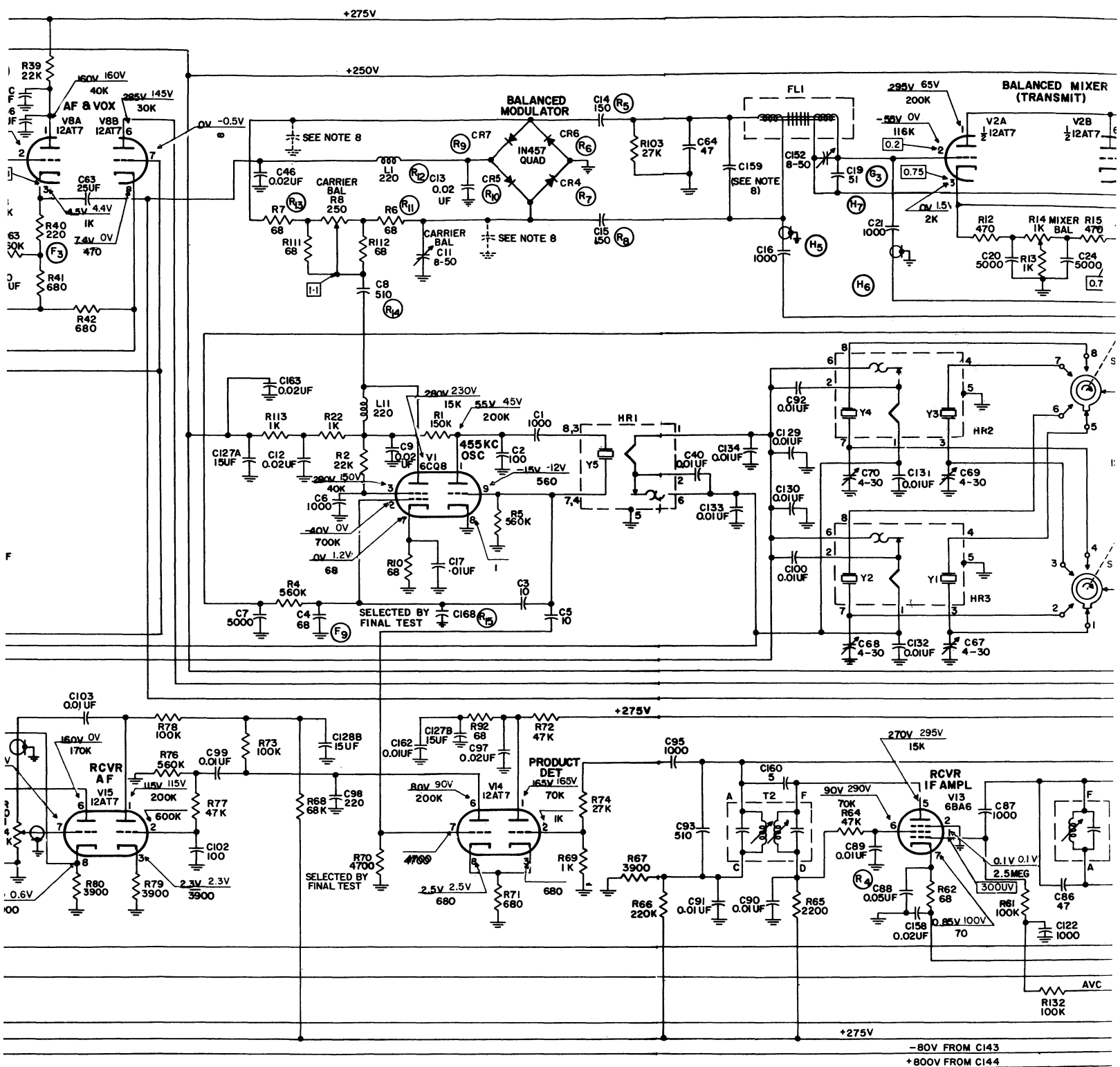


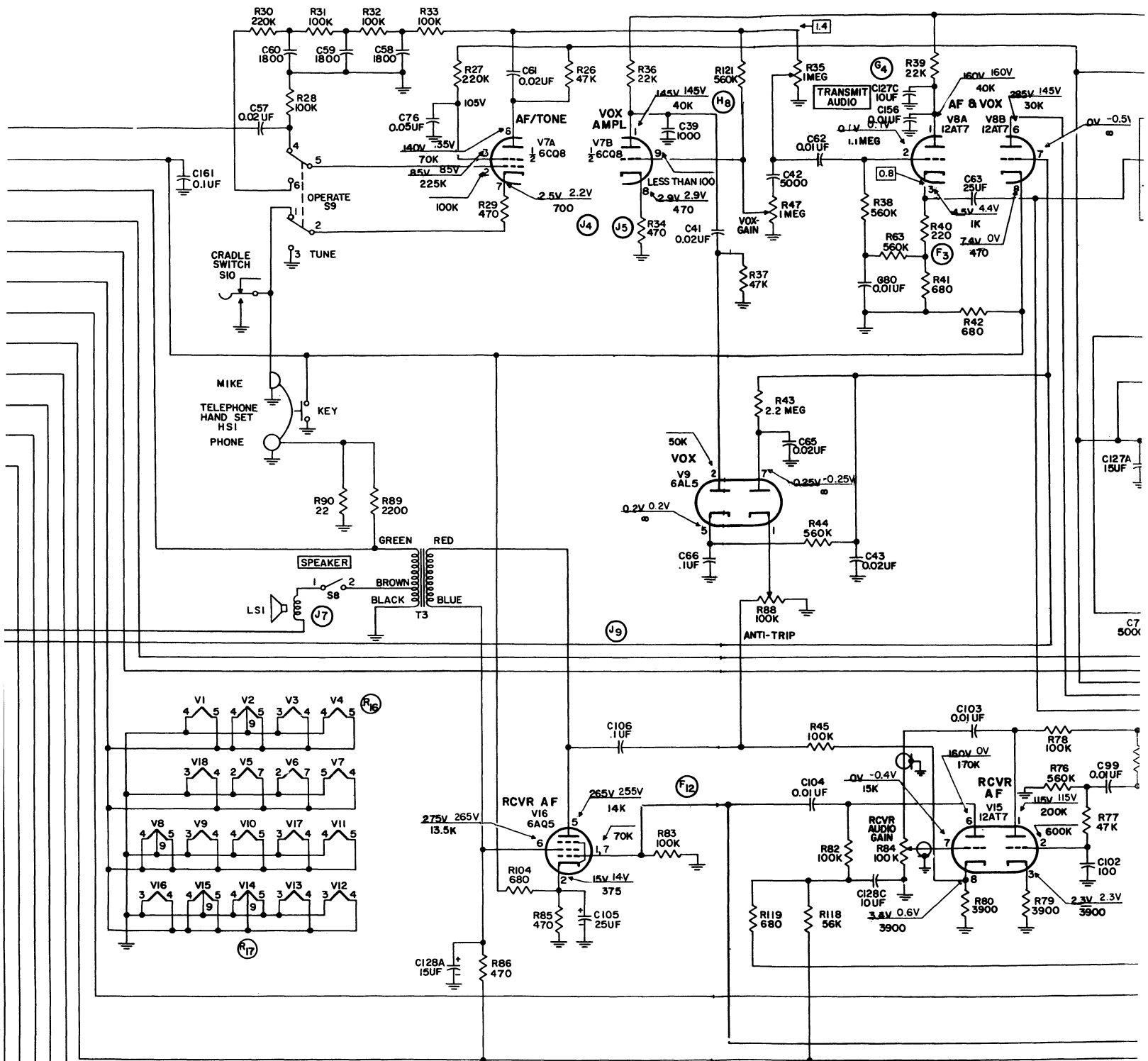
SECTION VII

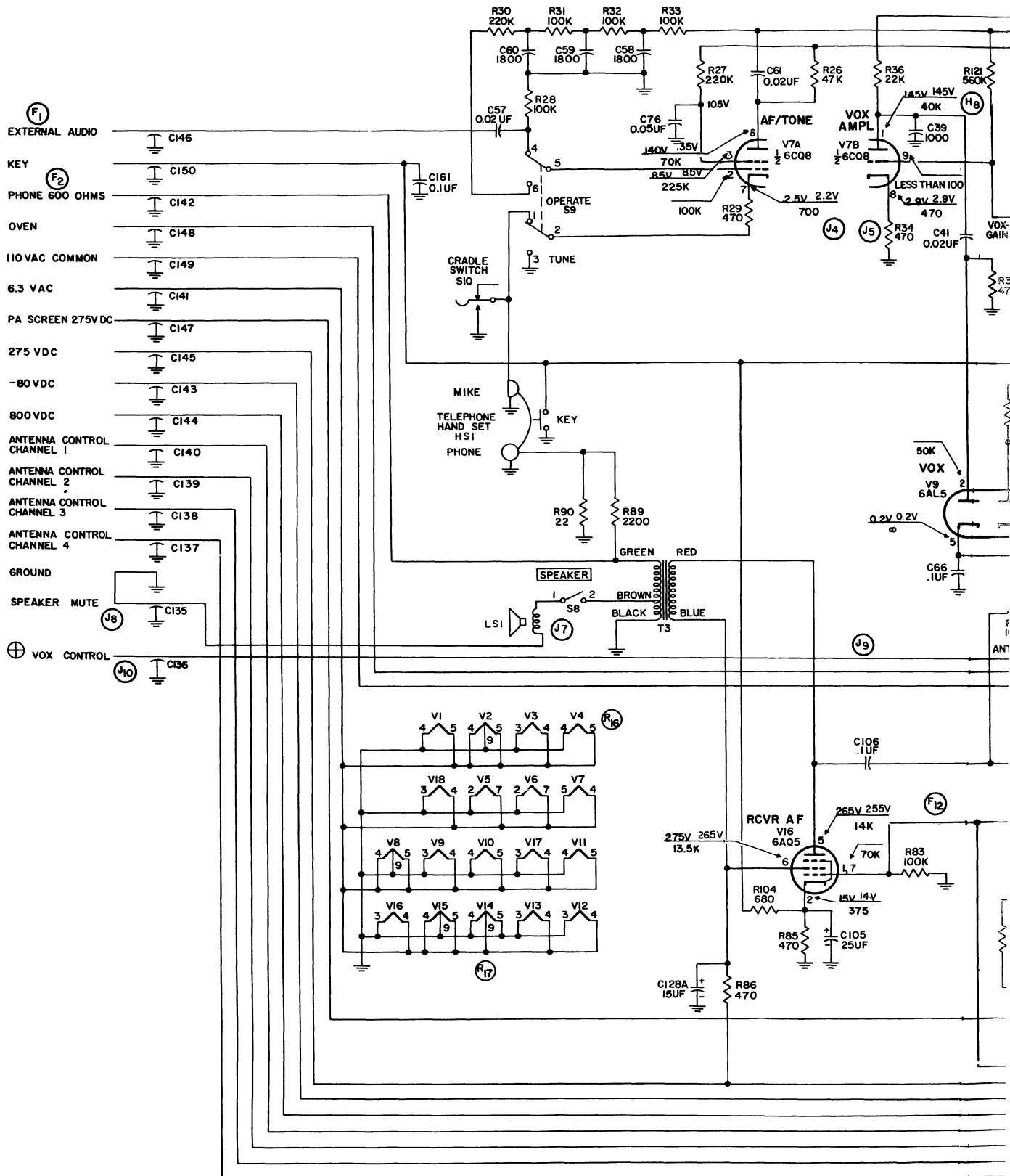
Illustrations



39/40







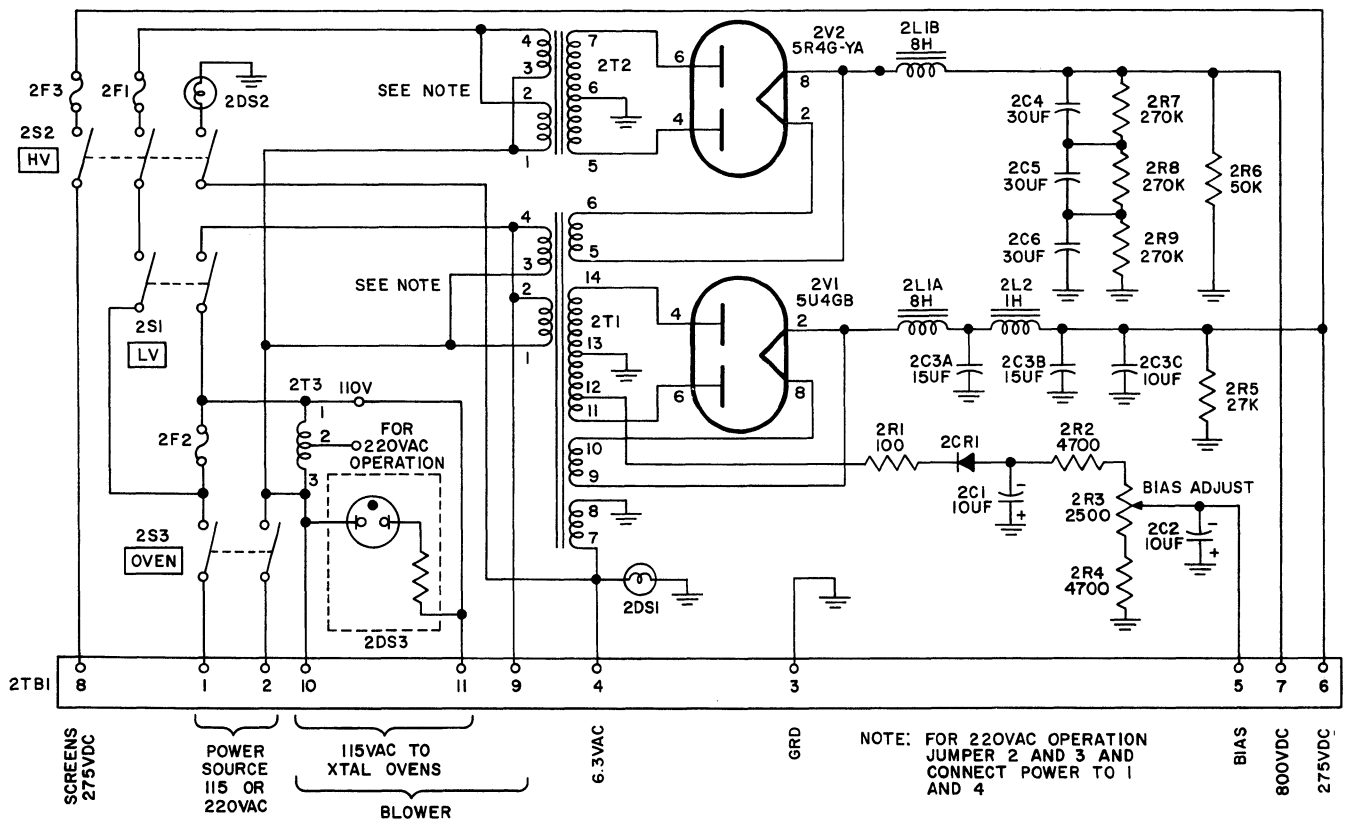


Figure 7-2. Power Supply, Schematic Diagram

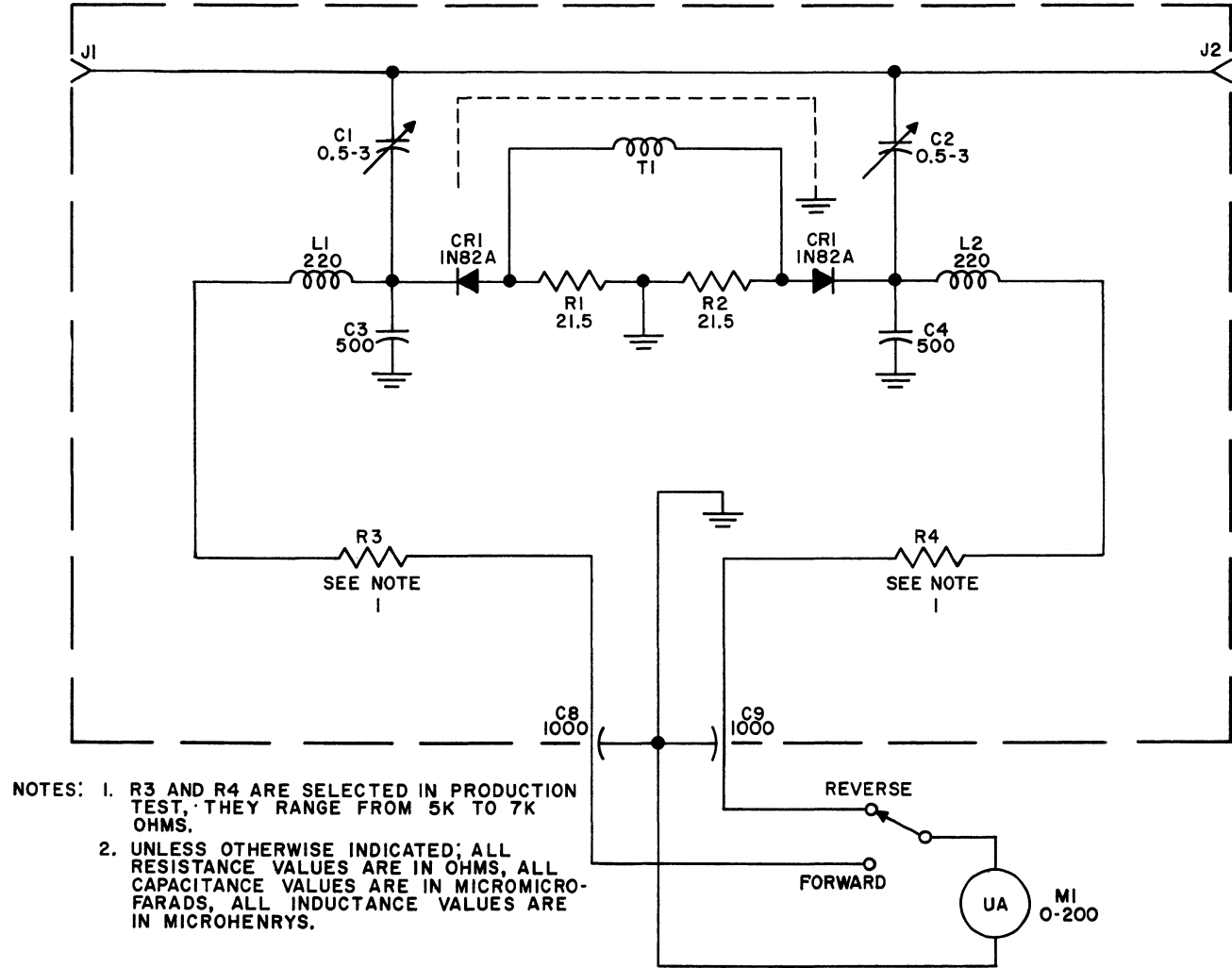


Figure 7-3. Directional Wattmeter 302E-2, Schematic Diagram

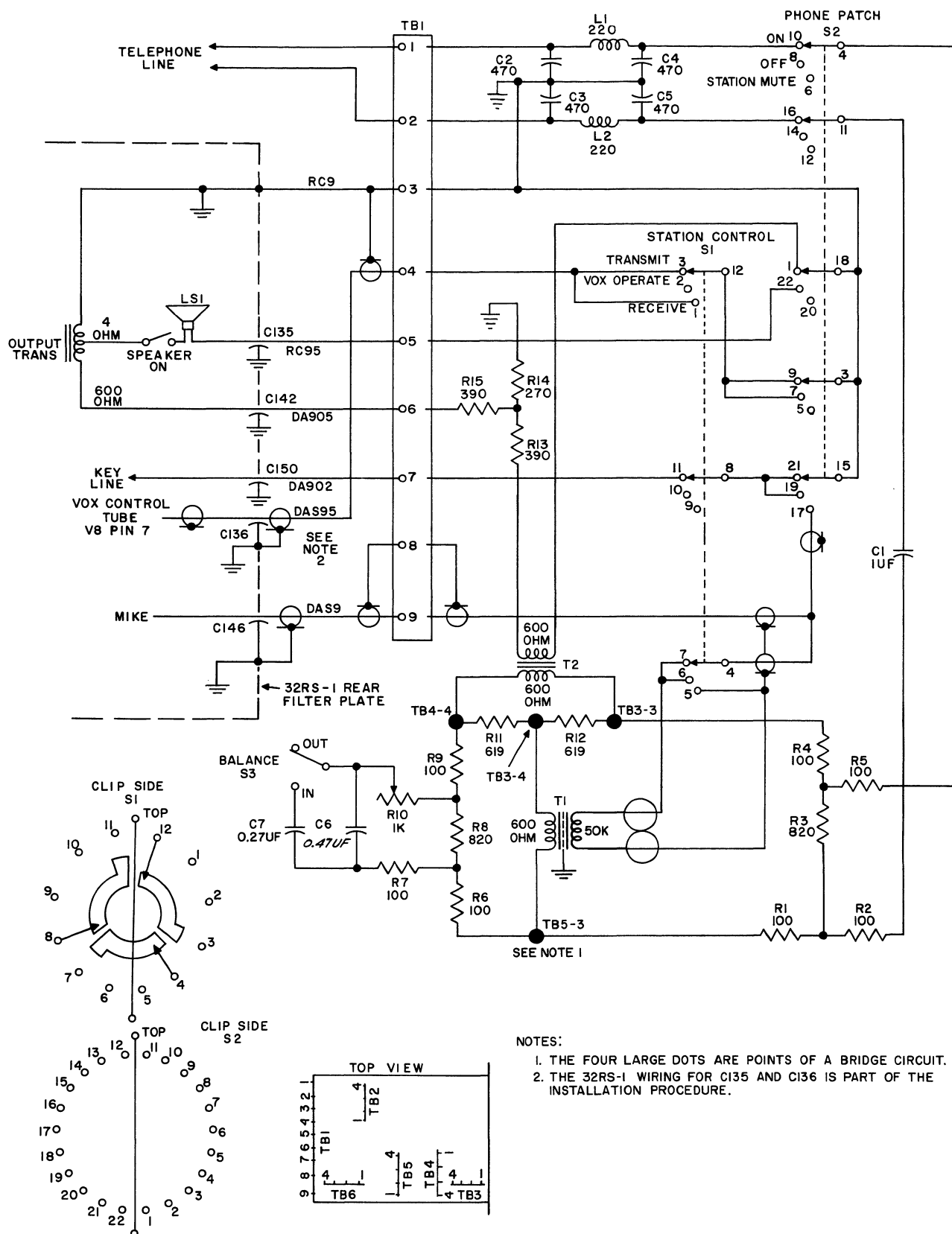


Figure 7-4. Phone Patch 152J-1, Schematic Diagram

Electrical Wire Code

EXAMPLES:

DA 92	UNSHIELDED WIRE, POLYVINYL, NO. 22 AWG, WHITE WITH A RED TRACER				
	<u>D</u> Type of Wire	<u>A</u> Size of Wire	<u>9</u> Color of Body	<u>2</u> Color of Tracers	
DAS 9123	SHIELDED WIRE (SINGLE) POLYVINYL, NO. 22 AWG, WHITE BODY WITH BROWN, RED AND ORANGE TRACERS				
	<u>D</u> Type of Wire	<u>A</u> Size of Wire	<u>S</u> Shielded	<u>9</u> Color of Body	<u>123</u> Color of Tracers
DASJ (9) (92)	SHIELDED AND JACKETED WIRE (MULTIPLE), POLYVINYL, NO. 22 AWG, WHITE AND WHITE WITH RED TRACER				
	<u>D</u> Type of Wire	<u>A</u> Size of Wire	<u>SJ</u> Shielded and Jacketed	<u>(9)</u> First Conductor	<u>(92)</u> Second Conductor
A2A 91	UNSHIELDED WIRE, IRRADIATED POLYOLEFIN, NO. 22 AWG, WHITE WITH BLACK TRACER				
	<u>A2</u> Type of Wire	<u>A</u> Size of Wire	<u>9</u> Color of Body	<u>1</u> Color of Tracer	

TYPE OF WIRE CODE		SIZE OF WIRE		COVERING OF WIRE	COLOR CODE	
CODE	DESCRIPTION	CODE	SIZE		CODE	TYPE
A	Cotton Braid Over Plastic	A	No. 22 AWG		0	Black
A2	Irradiated Modified Polyolefin, (300 Volts)	B	No. 20		1	Brown
A3	Irradiated Modified Polyolefin, (600 Volts)	C	No. 18		2	Red
A4	Irradiated Modified Polyolefin, (1000 Volts)	D	No. 16		3	Orange
A5	Irradiated Modified Polyolefin, (3000 Volts)	E	No. 14		4	Yellow
B	Busswire, Round Tinned	F	No. 12		5	Green
C	Polyvinyl Chloride, MIL-W-16878, Type B (600 Volts) (No. 20-18-16)	G	No. 10		6	Blue
D	Polyvinyl Chloride, MIL-W-16878, Type B (600 Volts) (No. 22-26-28)	H	No. 8		7	Violet
E	Vinyl, MIL-W-5086, Type I (600 Volts)	J	No. 6		8	Gray (Slate)
E2	Vinyl, MIL-W-5086, Type II (600 Volts) (No. 22-12) Note 1	K	No. 4		9	White
E3	Vinyl, MIL-W-5086, Type II (600 Volts) (No. 0000-10) Note 2	L	No. 2		a	Clear
E4	Vinyl, MIL-W-5086, Type III (600 Volts) (No. 12-22) Note 3	M	No. 1		b	Tan
E5	Vinyl, MIL-W-5086, Type III (600 Volts) (No. 0000-10) Note 4	N	No. 0		c	Pink
G		P	No. 00		d	Maroon
H	Kel-F (Monochlorotrifluoroethylene)	Q	No. 000		e	Light Green
I	Not Available	R	No. 0000	S Shielded	f	Light Blue
J		T	No. 28			
K	Neon Sign Cable (15,000 Volts)	V	No. 26	SJ Shielded & Jacketed		
L	Silicone, MIL-W-16878, Type FF (600 Volts)	W	No. 24			
L2	Silicone, MIL-W-16878, Type FFW (1000 Volts)	X	No. 19			
L3	Silicone, Non-MIL (5000 Volts)	Y	No. 30			
L4	Silicone, Non-MIL (10,000 Volts)	Z				
L5	Silicone, Non-MIL (15,000 Volts)					
M						
N	Single Conductor Stranded (Non-Rubber)					
O	Not Available					
P	Single Conductor Stranded (Rubber Covered)					
Q						
R	Polyvinyl Chloride, MIL-W-16878, Type C (1000 Volts)					
S	Not Available					
T	Teflon (TFE), MIL-W-16878, Type E (600 Volts) Stranded					
U	Not Available					
V	Polyvinyl Chloride, MIL-W-16878, Type D (3000 Volts)					
W	Teflon (TFE), MIL-W-16878, Type EE (1000 Volts)					
X	Teflon (TFE), MIL-W-16878, Type ET (250 Volts)					
X2	Teflon (FEP), MIL-W-16878, Type K (600 Volts)					
X3	Teflon (FEP), MIL-W-16878, Type KT (250 Volts)					
X4	Teflon (TFE), Non-MIL (3000 Volts)					
Y	Telephone Type, Polyvinyl					
Y1	Teflon (TFE), Non-MIL; Solid Conductor					
Z	Telephone Type, Braided Yarn					

Note 1 - Extruded nylon over fiber glass braid.

Note 2 - Braided, lacquered nylon over fiber glass braid.

Note 3 - Extruded nylon over secondary vinyl over fiber glass over primary vinyl.

Note 4 - Lacquered extruded nylon over secondary vinyl over fiber glass over primary vinyl.

