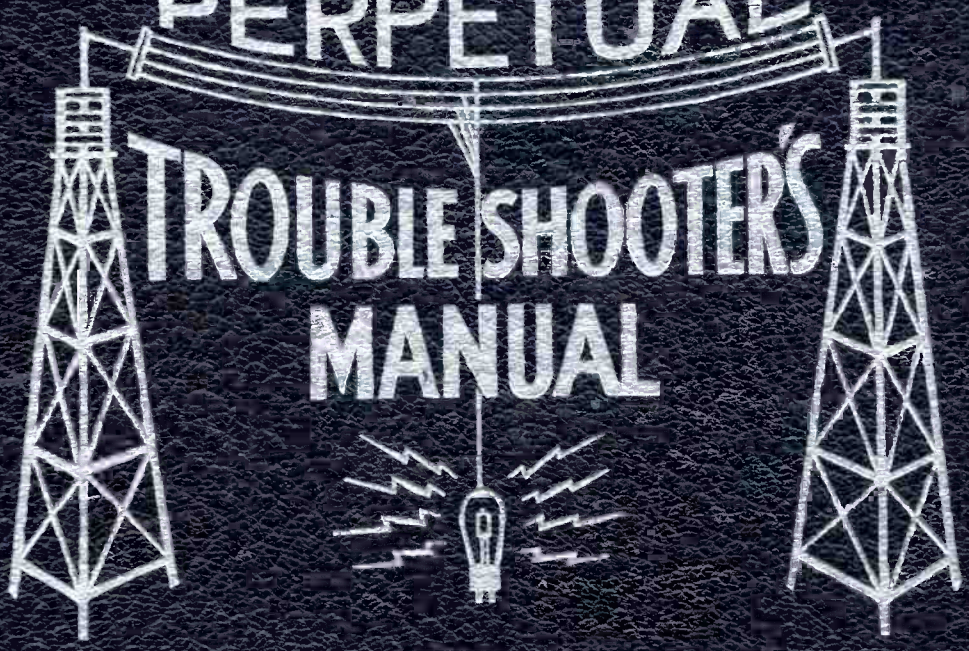
VOLUME I

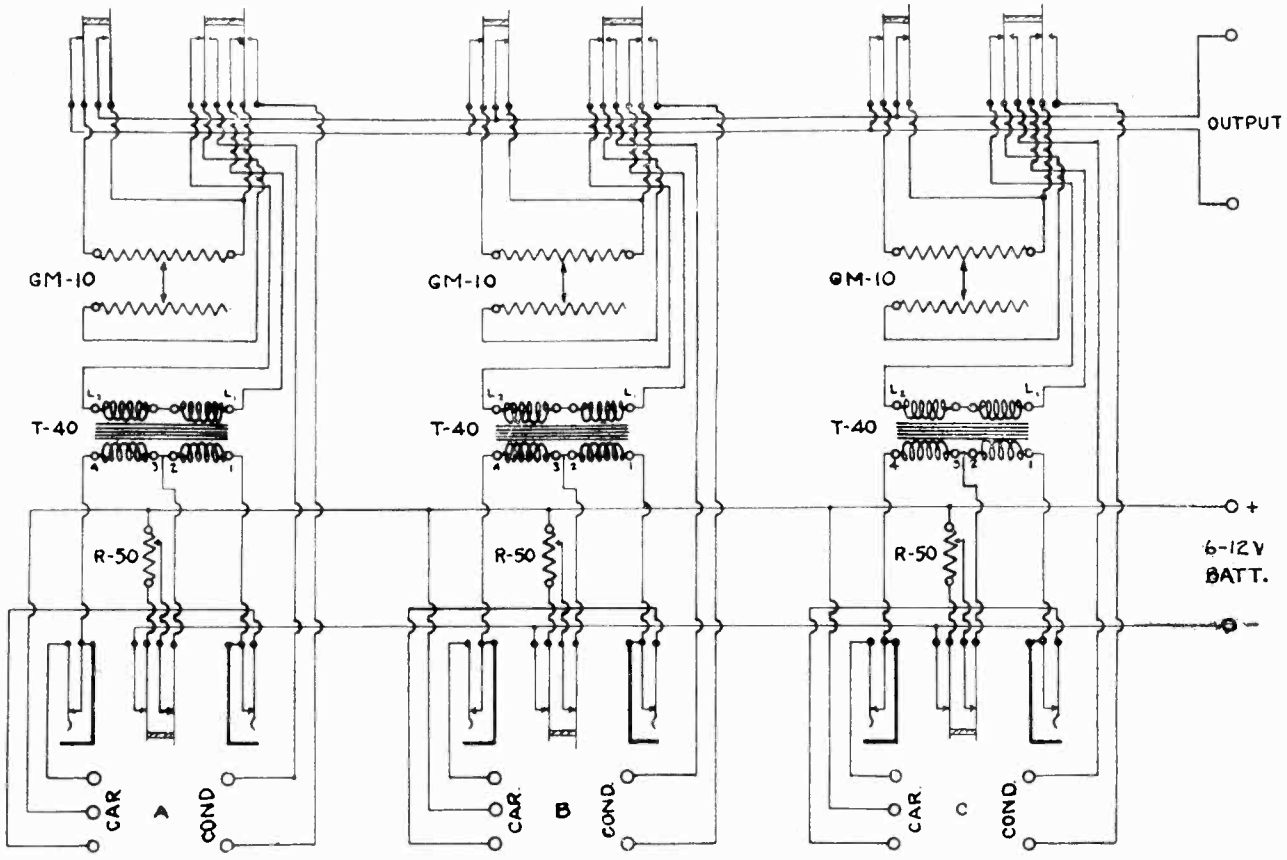
PERPETUAL TROUBLE SHOOTER'S MANUAL



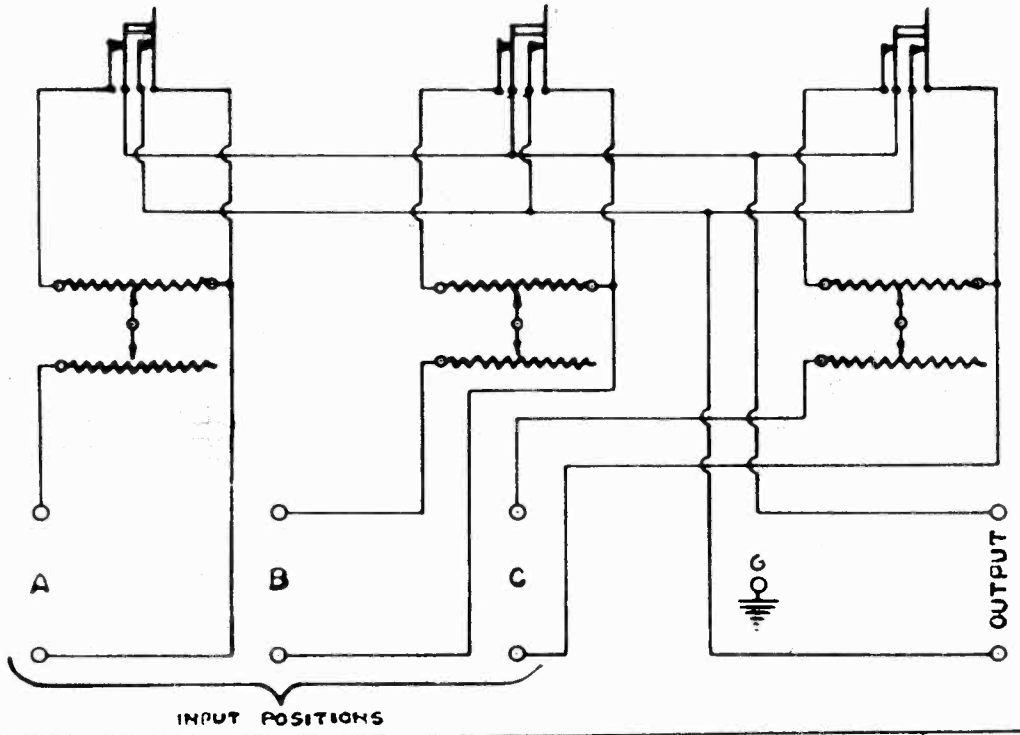
JOHN F. RIDER

J. E. JENKINS AND S. E. ADAIR

MODEL 3B Mixing Panel
MODEL 3C Mixing Panel



Schematic of: 3B MIXING PANEL

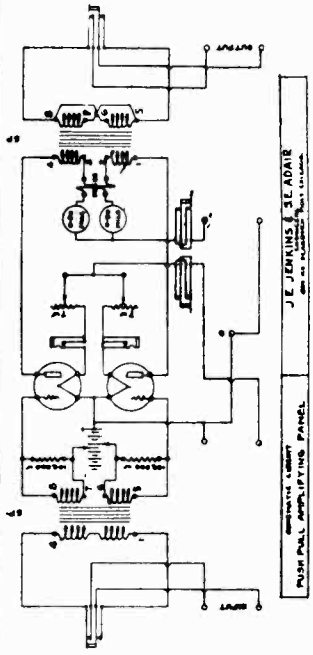


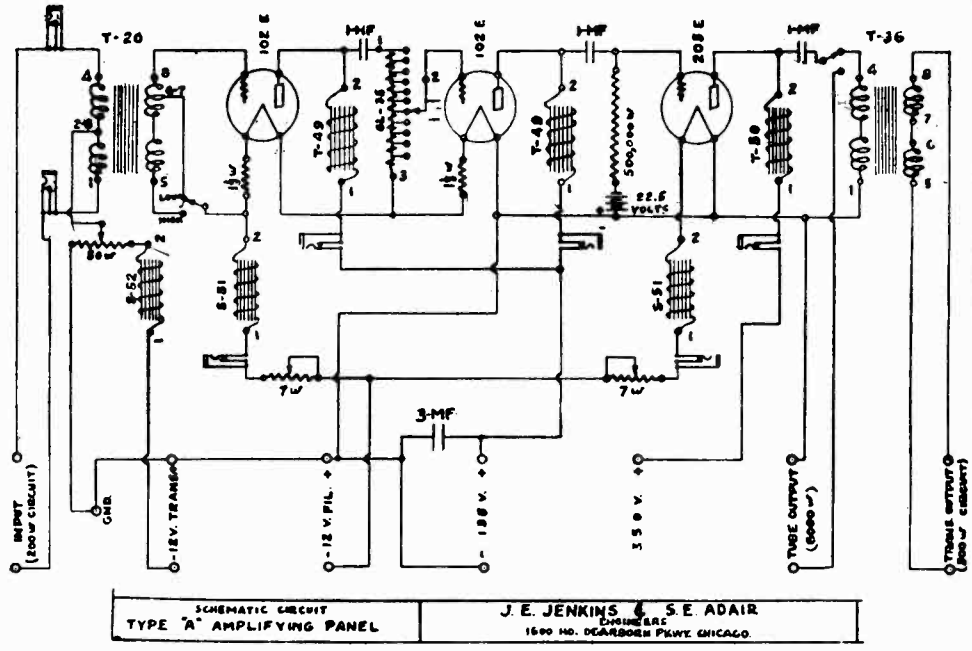
SCHEMATIC CIRCUIT
3-C MIXING PANEL

J.E JENKINS & S.E. ADAIR
ENGINEERS
1500 NO. DEARBORN PKWY. CHICAGO

MODEL A Two Types
MODEL PushPull Amp.
MODEL Monitor Amp.
MODEL Level Indicator

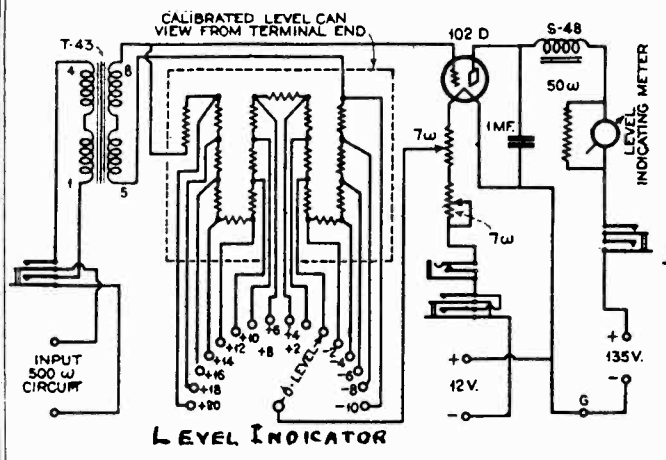
J. E. JENKINS AND S. E. ADAIR



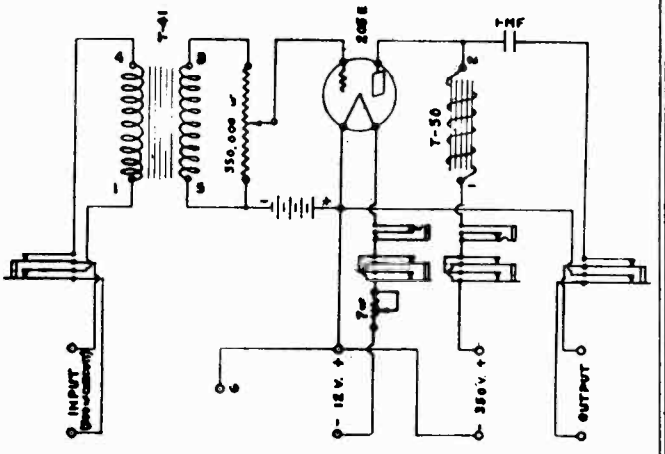


SCHEMATIC CIRCUIT
TYPE "A" AMPLIFYING PANEL

J. E. JENKINS & S. E. ADAIR
ENGINEERS
1500 NO. DEARBORN PKWY. CHICAGO.

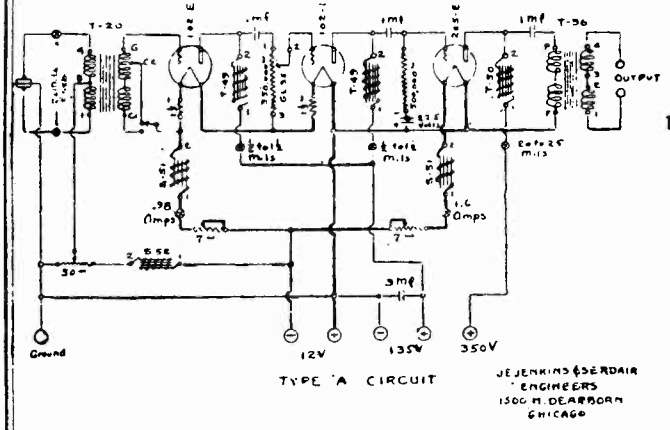


LEVEL INDICATOR



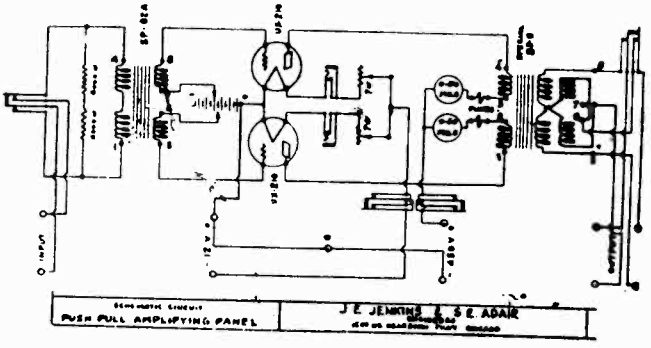
SCHEMATIC CIRCUIT
MONITOR TYPE AMPLIFIER

J. E. JENKINS & S. E. ADAIR
ENGINEERS
1500 NO. DEARBORN PKWY. CHICAGO



TYPE 'A' CIRCUIT

J.E. JENKINS & S.E. ADAIR
ENGINEERS
1500 N. DEARBORN
CHICAGO

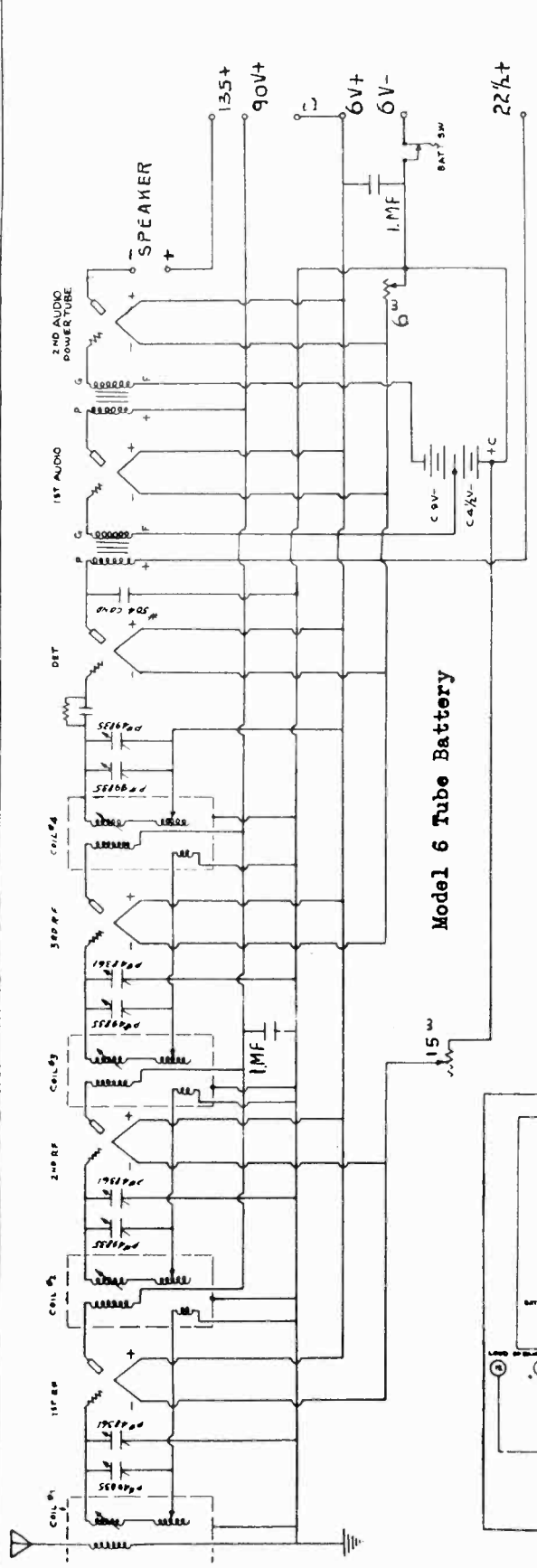


SCHEMATIC CIRCUIT
PUSH PULL AMPLIFYING PANEL

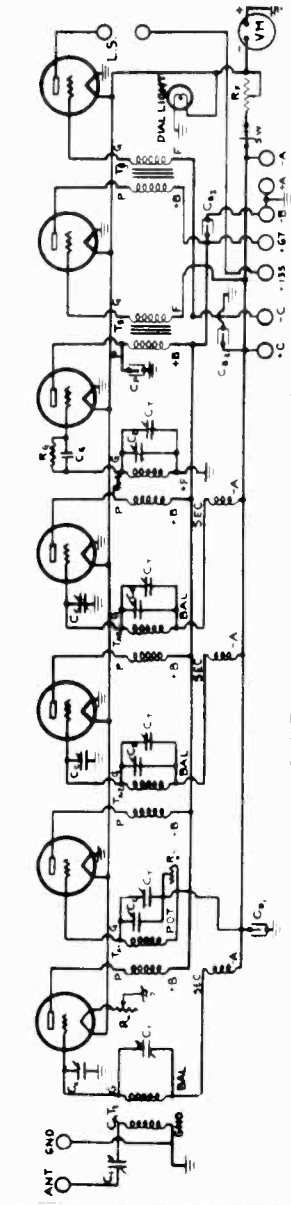
J. E. JENKINS & S. E. ADAIR

KELLOGG SWITCHBOARD & SUPPLY CO.

MODEL 6 Tube Battery
MODEL 7 Tube Cascade
MODEL Wave Master

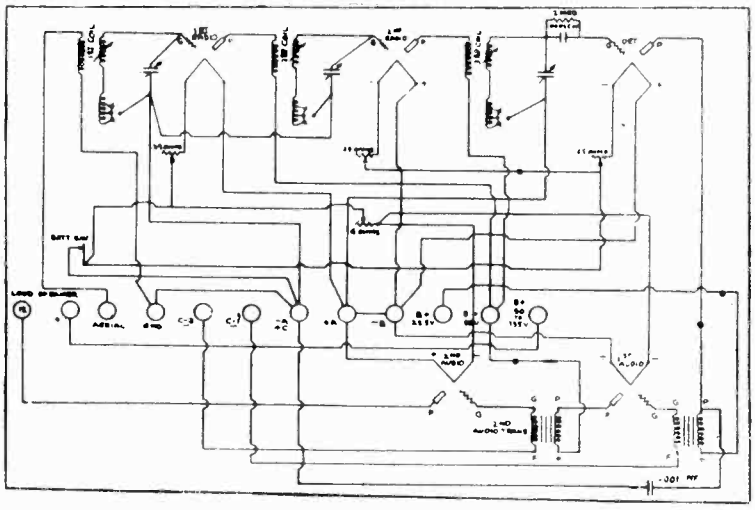


Model 6 Tube Battery



C_1 ANTENNA EQUALIZER .00027MF
C_2 TUNING ALIGNMENT CONDENSER
C_B BYPASS CONDENSER 1MFD.
C_C BALANCING CONDENSER .000060MF.
C_G GRID CONDENSER .00025MF
C_P BYPASS CONDENSER .001MF
C_T GANG CONDENSER .0005MF UNITS [STATION SELECTOR]
L DIAL LIGHT
R ROTOR PLATES OF VARIABLE CONDENSER
R_F FILAMENT RHEOSTAT 4 OHMS
R_G GRID LEAK 2½ MEGOHMS.
R_L NON-INDUCTIVE WIRE RESISTANCE 200 OHMS. } VOLUME CONTROL
R_A RHEOSTAT 20 OHMS
S STATIONARY PLATES OF VARIABLE CONDENSER.
SW FILAMENT SWITCH
T_{RF} RADIO FREQUENCY TRANSFORMERS
T_I INPUT TRANSFORMER
T_S KELLOGG AUDIO TRANSFORMER
VM FILAMENT VOLTMETER
± GROUND TO SHIELD

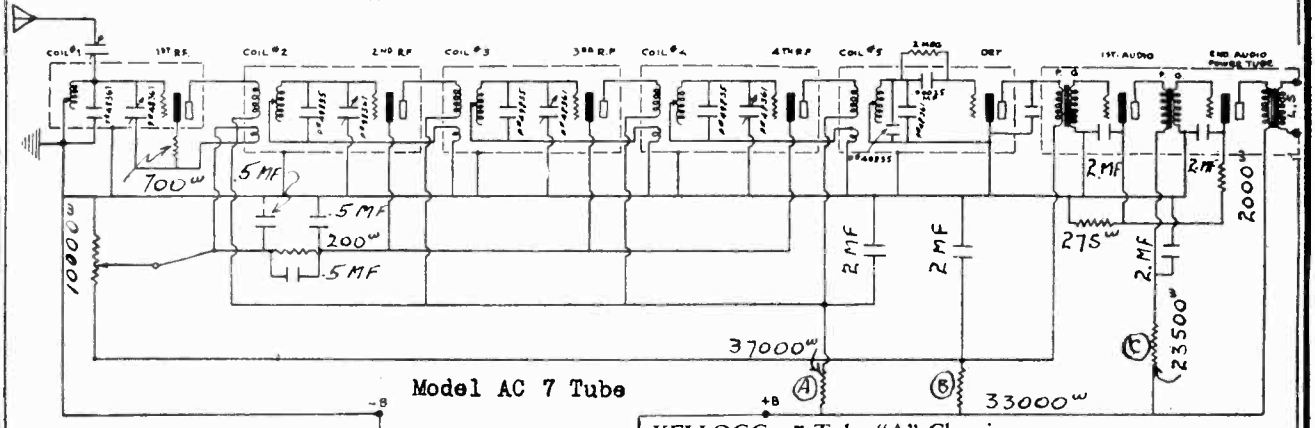
Model 7 Tube Cascade



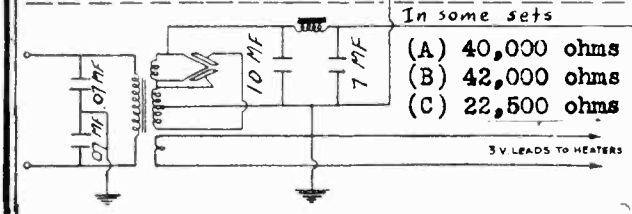
Model Wave Master

MODEL RFL 701
MODEL AC 7 Tube
MODEL Chassis B

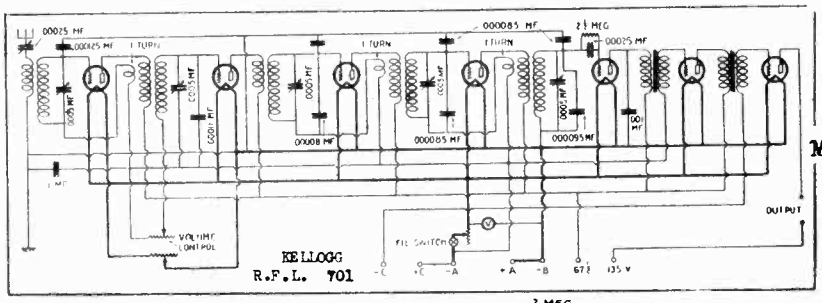
KELLOGG SWITCHBOARD & SUPPLY CO.



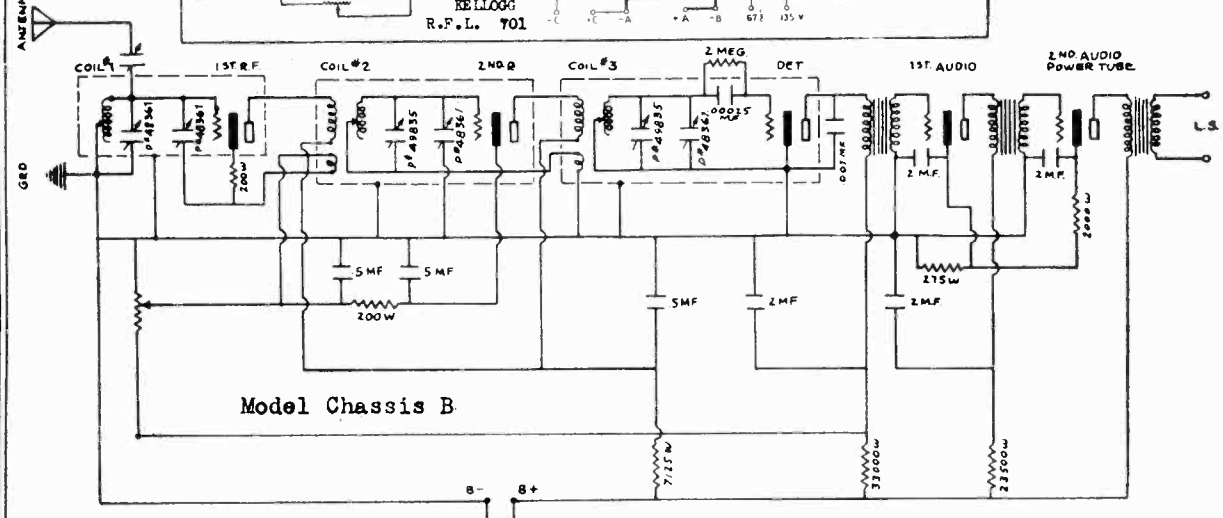
KELLOGG—7 Tube "A" Chassis
Line Voltage 115—Volume Control Full

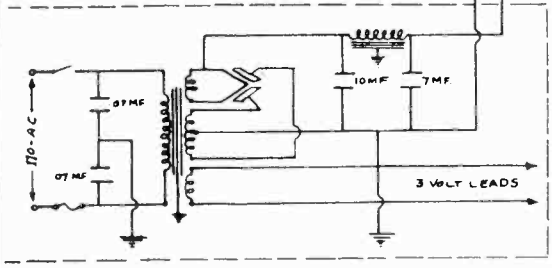


TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST R.F. DET. ETC	READINGS, PLUG IN SOCKET OF SET								
			TUBE OUT		TUBE IN TESTER						
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	NORMAL PLATE M.A.	PLATE M.A. GRID TEST	PLATE M.A. CHANGE
1	401	1st.R.F.	2.75	115	2.75	108	3.5	-	6.2	10.5	4.3
2	401	2nd.R.F.	2.75	115	2.75	108	4.5	-	6.2	10.5	4.3
3	401	3rd.R.F.	2.75	115	2.75	108	4.5	-	6.2	10.5	4.3
4	401	4th.R.F.	2.75	115	2.75	108	4.5	-	6.2	10.5	4.3
5	401	Detector	2.75	26	2.75	23	0.0	-	1.4	1.5	.1
6	401	1st.A.F.	2.75	115	2.75	108	5.0	-	6.2	10.5	4.3
7	403	2nd.A.F.	2.75	165	2.75	153	33.5	-	13.2	15.2	2.0
8	280	Rectifier	-	-	4.8	-	-	-	22.0	-	-



Model RFL 701



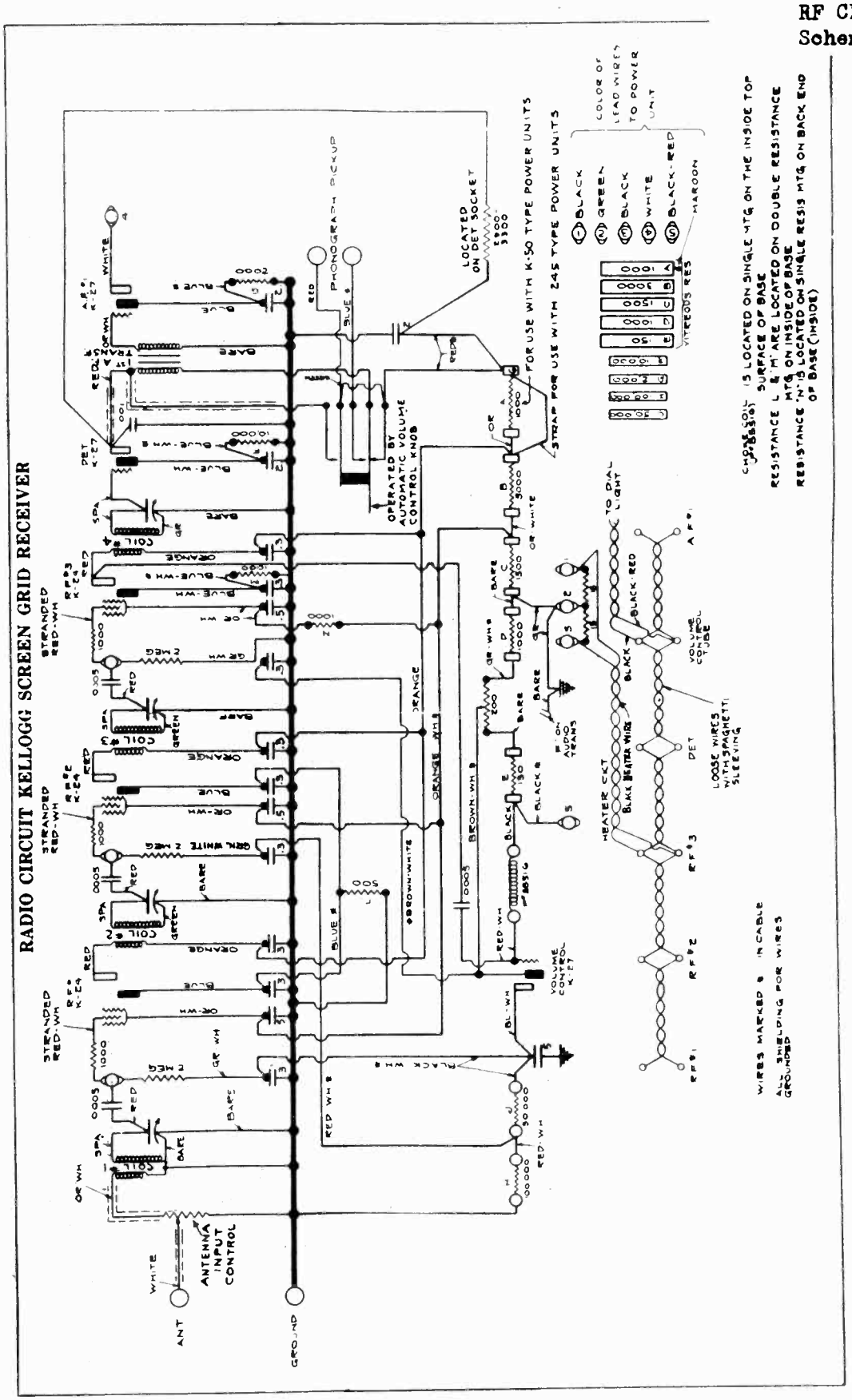


KELLOGG—5 Tube "B" Chassis
Line Voltage 115—Volume Control Full

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST R.F. DET. ETC	READINGS, PLUG IN SOCKET OF SET								
			TUBE OUT		TUBE IN TESTER						
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	NORMAL PLATE M.A.	PLATE M.A. GRID TEST	PLATE M.A. CHANGE
1	401	1st.R.F.	2.75	113	2.75	105	3.1	-	6.0	9.5	3.5
2	401	2nd.R.F.	2.75	113	2.75	105	4.2	-	6.0	9.5	3.5
3	401	Detector	2.75	28	2.75	25	0.0	-	1.4	1.5	.1
4	401	1st.A.F.	2.75	113	2.75	105	4.2	-	6.0	9.5	3.5
5	403	2nd.A.F.	2.75	113	2.75	105	4.8	-	4.3	6.0	1.7
6	280	Rectifier	-	-	4.60	-	-	-	20.0	-	-
7											
8											
9											
10											

KELLOGG SWITCHBOARD & SUPPLY CO.

MODEL 523,524,525,
526,527,528
RF Chassis
Schematic



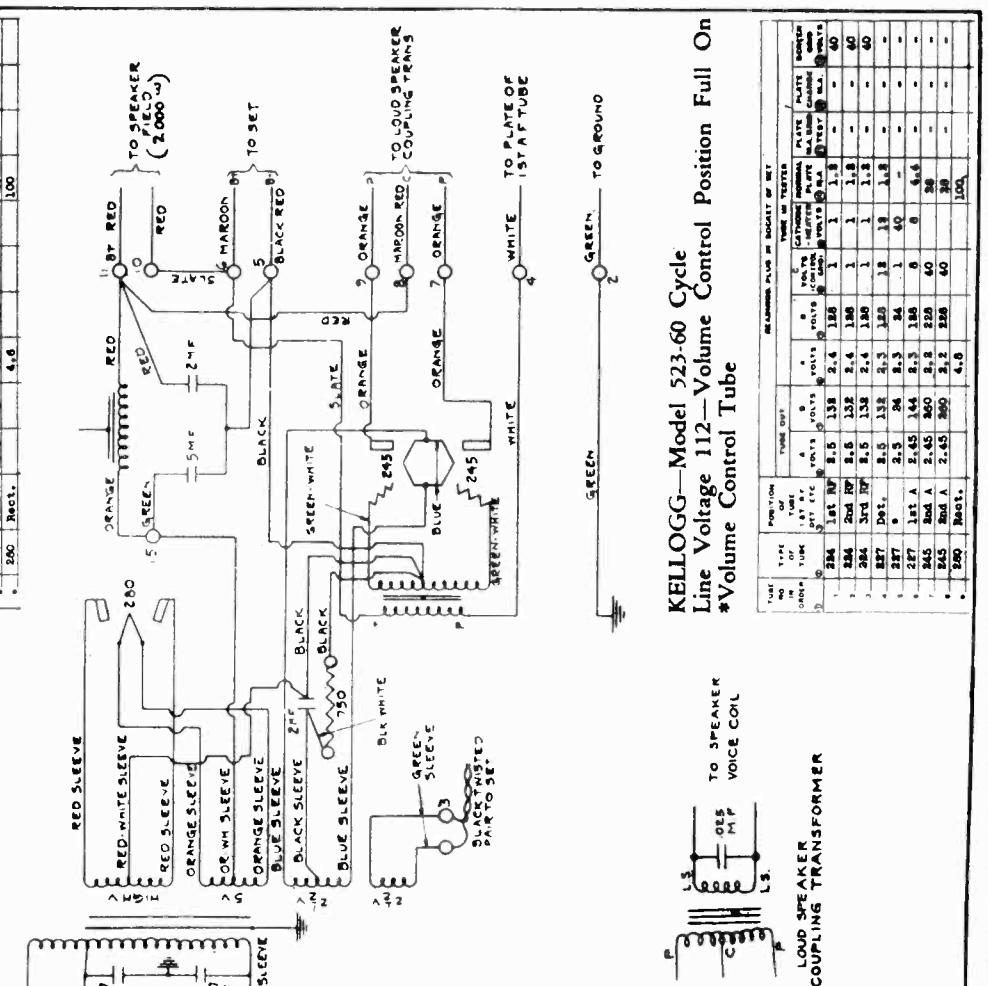
FOR POWER UNITS SEE SUBSEQUENT PAGES

MODEL 523,526
Power Unit
Schematic

KELLOGG SWITCHBOARD & SUPPLY CO.

KELLOGG—Model 526-25 Cycle
Line Voltage 112—Volume Control Position Full On
*Volume Control Tube

TUBE NO. IN DIAGRAM	TYPE OF TUBE	POSITION OF TUBE IN SET ETC.	TUBE OUT A VOLTS	TUBE OUT B VOLTS	A VOLTS	B VOLTS	TUBE IN TESTER C VOLTS (CONTROL GRID)	CATHODE (HEATER) VOLTS	NORMAL PLATE MA.	PLATE (& GRID CURRENT) MA.	BOARDER GRID VOLTS
1	224	1st RF	2.6	138	2.4	135	1	1	1.8	-	40
2	224	2nd RF	2.5	138	2.4	135	1	1	1.8	-	40
3	224	3rd RF	2.5	138	2.4	135	1	1	1.8	-	40
4	227	Det.	2.5	138	2.3	130	1.8	1.8	1.8	-	-
5	247	0	2.5	34	2.3	34	1	40	-	-	-
6	227	1st A	2.45	144	2.3	135	0	0	4.4	-	-
7	245	2nd A	2.45	360	2.3	285	40		38	-	-
8	245	2nd A	2.45	360	2.3	285	40		38	-	-
9	280	Rect.			4.6				100		

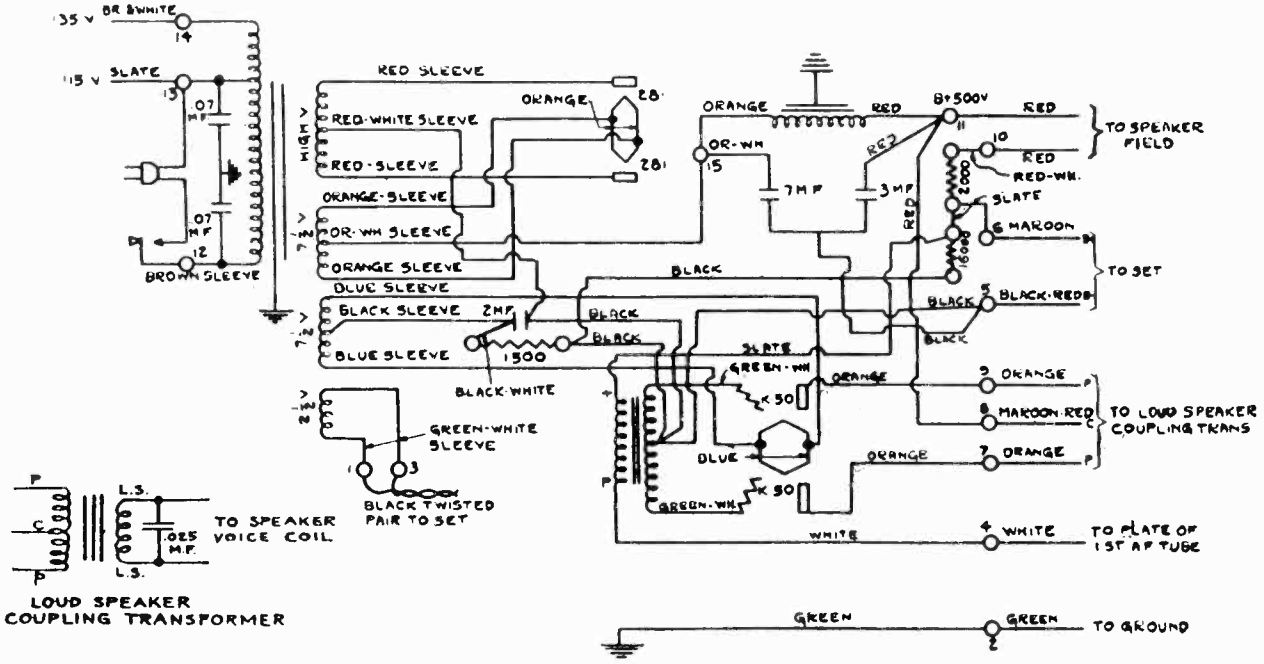


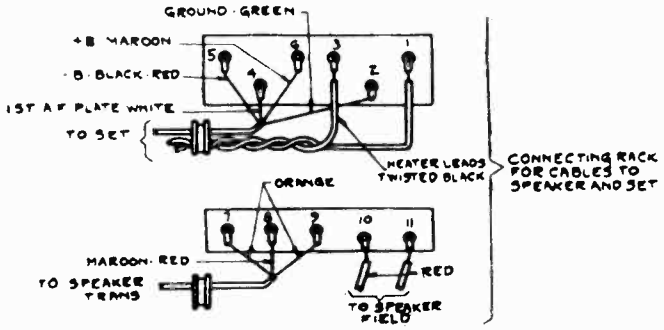
KELLOGG—Model 523-60 Cycle
Line Voltage 112—Volume Control Position Full On
*Volume Control Tube

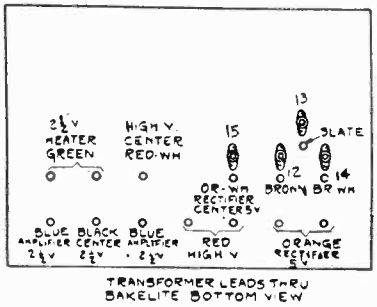
TUBE NO. IN DIAGRAM	TYPE OF TUBE	POSITION OF TUBE IN SET ETC.	TUBE OUT A VOLTS	TUBE OUT B VOLTS	A VOLTS	B VOLTS	TUBE IN TESTER C VOLTS (CONTROL GRID)	CATHODE (HEATER) VOLTS	NORMAL PLATE MA.	PLATE (& GRID CURRENT) MA.	BOARDER GRID VOLTS
1	224	1st RF	2.5	138	2.4	135	1	1	1.8	-	40
2	224	2nd RF	2.5	138	2.4	135	1	1	1.8	-	40
3	224	3rd RF	2.5	138	2.4	135	1	1	1.8	-	40
4	227	Det.	2.5	138	2.3	130	1.8	1.8	1.8	-	-
5	247	0	2.5	34	2.3	34	1	40	-	-	-
6	227	1st A	2.45	144	2.3	135	0	0	4.4	-	-
7	245	2nd A	2.45	360	2.3	285	40		38	-	-
8	245	2nd A	2.45	360	2.3	285	40		38	-	-
9	280	Rect.			4.6				100		

KELLOGG SWITCHBOARD & SUPPLY CO.

MODEL 524, 525, 527, 528
Power Unit
Schematic

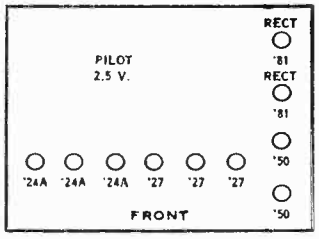






TRANSFORMER LEADS THRU BAKELITE BOTTOM VIEW

Models 524, 525, 527, 528



POWER UNIT CIRCUIT
K-50 TYPE
FOR SETS 524, 525, 527, 528

KELLOGG—527-528-25 Cycle
Line Voltage 112—*Volume Control Tube

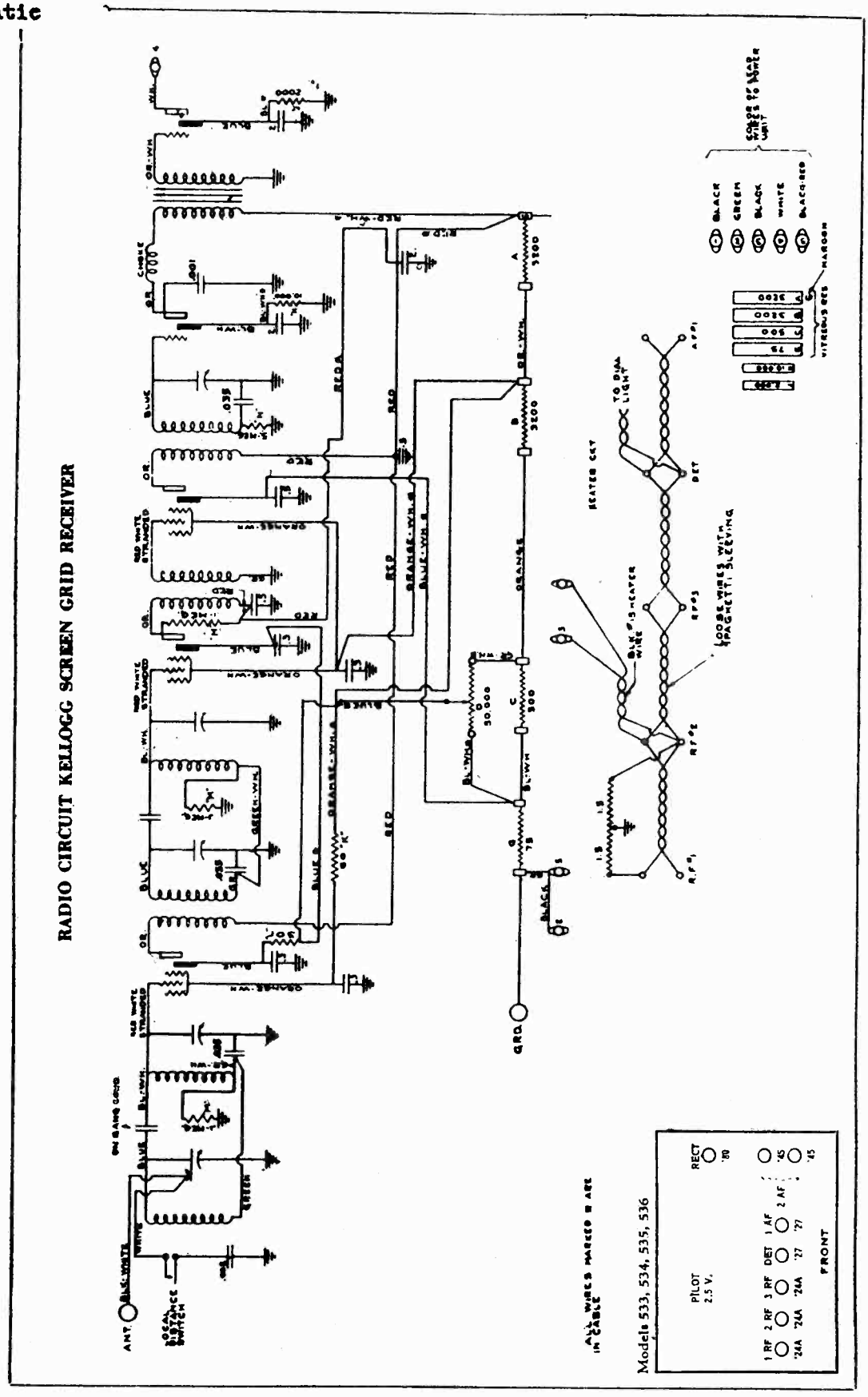
TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST RF DET ETC	READINGS PLUG IN SOCKET OF SET									
			TUBE OUT		TUBE IN TESTER							
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS (CONTROL GRID)	CATHODE - HEATER VOLTS	NORMAL PLATE M A	PLATE M A GRID TEST	PLATE CHANGE M A	SCREEN GRID VOLTS
1	224	1st RF	2.4	164	2.25	160	2	2	1.4	1.6	.2	46
2	224	2nd RF	2.4	164	2.25	160	2	2	1.4	1.6	.2	46
3	224	3rd RF	2.4	164	2.25	160	2	2	1.4	1.6	.2	46
4	227	Det.	2.4	200	2.25	180	17	17	1.8	-	-	-
5	227	•	2.4	28	2.25	28	-	45	-	-	-	-
6	227	1st A	2.4	220	2.25	188	10	10	5	-	-	-
7	250	2nd A	7.5	440	7.4	420	86	-	30	-	-	-
8	250	2nd A	7.5	440	7.4	420	86	-	30	-	-	-
9	281	Rect.	7.5	-	7.4	-	-	-	60	-	-	-
10	281	Rect.	7.5	-	7.4	-	-	-	60	-	-	-

KELLOGG—524-525-60 Cycle
Line Voltage 112—*Volume Control Tube

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST RF DET ETC	READINGS PLUG IN SOCKET OF SET									
			TUBE OUT		TUBE IN TESTER							
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS (CONTROL GRID)	CATHODE - HEATER VOLTS	NORMAL PLATE M A	PLATE M A GRID TEST	PLATE CHANGE M A	SCREEN GRID VOLTS
1	224	1st RF	2.4	164	2.25	160	2	2	1.4	1.6	.2	46
2	224	2nd RF	2.4	164	2.25	160	2	2	1.4	1.6	.2	46
3	224	3rd RF	2.4	164	2.25	160	2	2	1.4	1.6	.2	46
4	227	Det.	2.4	200	2.25	180	17	17	1.8	-	-	-
5	227	•	2.4	28	2.25	28	-	45	-	-	-	-
6	227	1st A	2.4	220	2.25	188	10	10	5	-	-	-
7	250	2nd A	7.5	440	7.4	420	86	-	30	-	-	-
8	250	2nd A	7.5	440	7.4	420	86	-	30	-	-	-
9	281	Rect.	7.5	-	7.4	-	-	-	60	-	-	-
10	281	Rect.	7.5	-	7.4	-	-	-	60	-	-	-

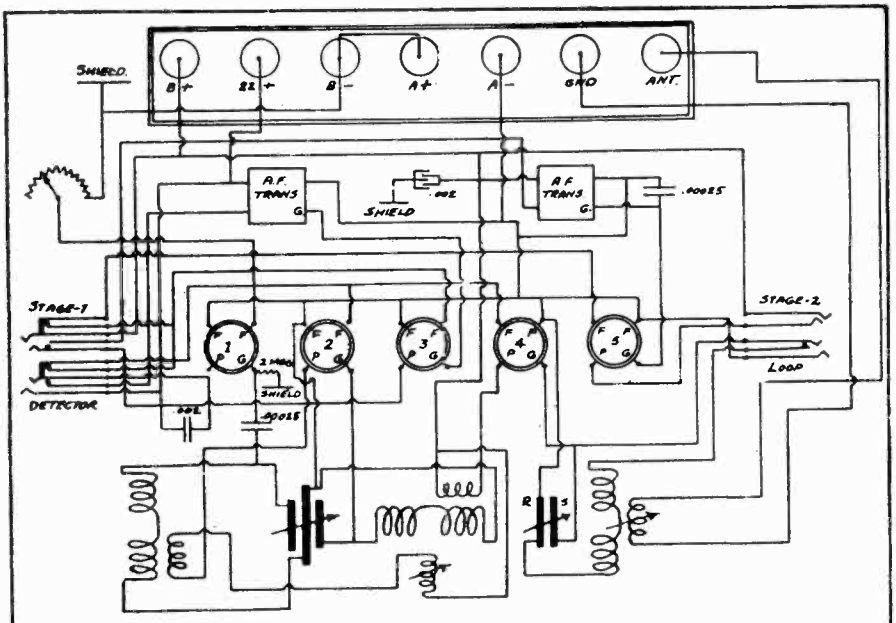
MODEL 533,534
535,536
R.F.Chassis
Sohematic

KELLOGG SWITCHBOARD & SUPPLY CO.

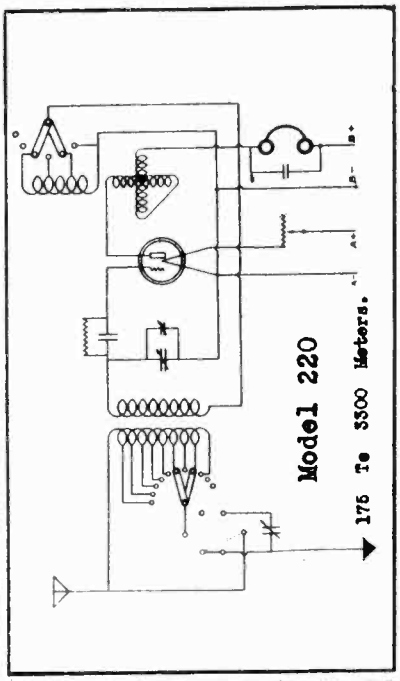


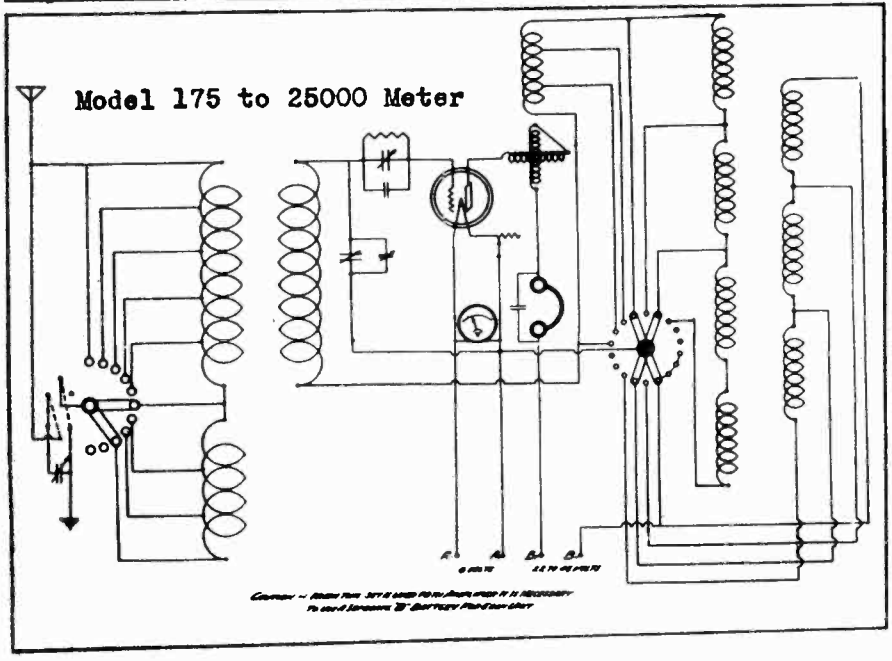
COLIN B. KENNEDY CORP.

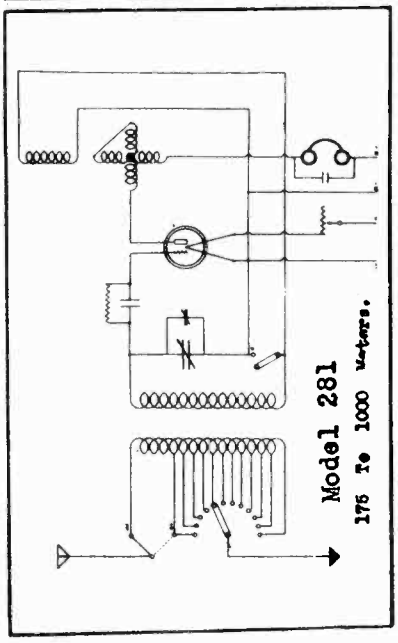
MODEL 220
MODEL 281
MODELS 15,16(Type 430-43)
MODEL 175 to 25000 Meter



Models 15,16(Type 430-43) Tube orders 4, - 2, - 1, - 3, - 5.

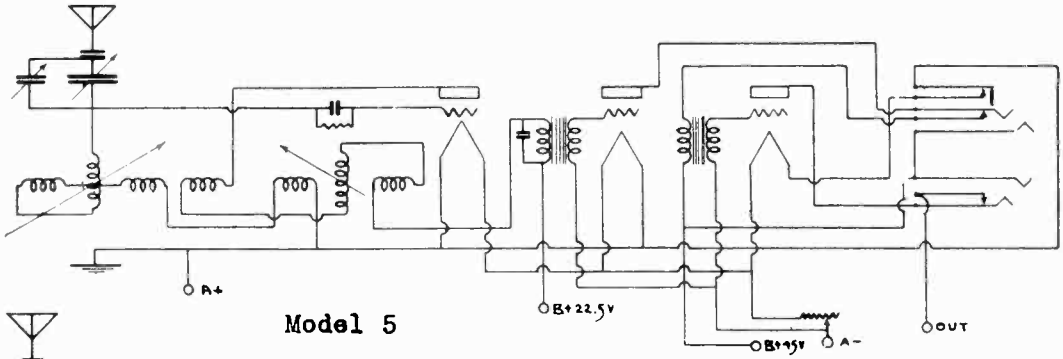




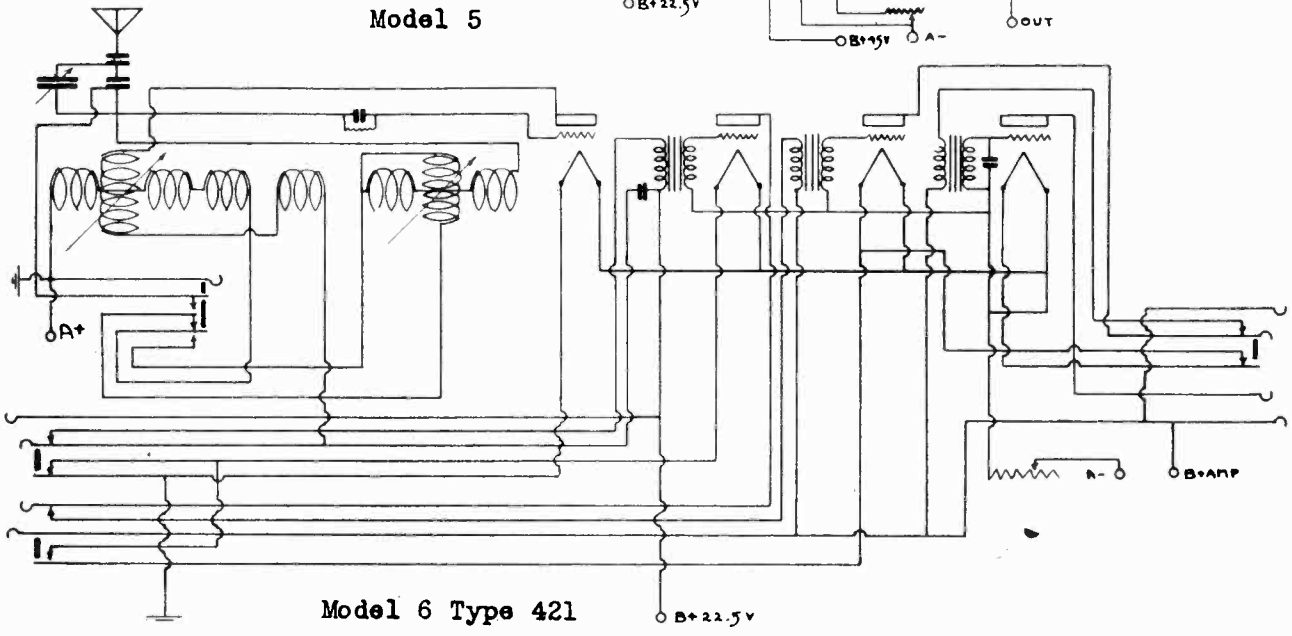


MODEL 5
MODEL 6 Type 421
MODEL 6 Type 420

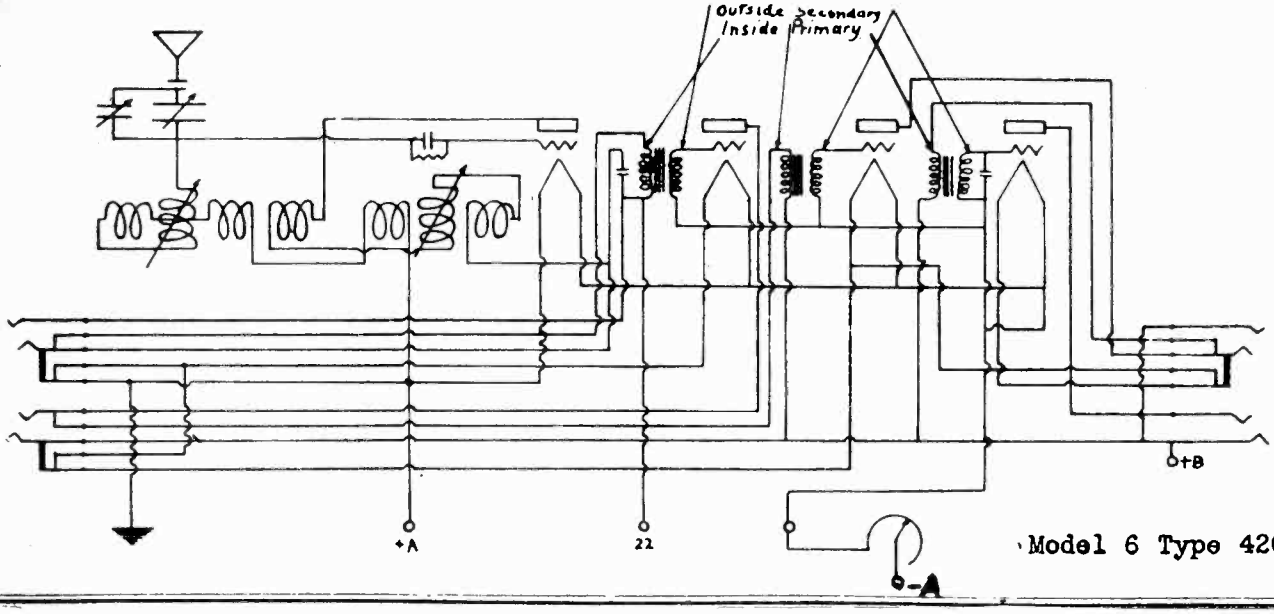
COLIN B. KENNEDY CORP.



Model 5



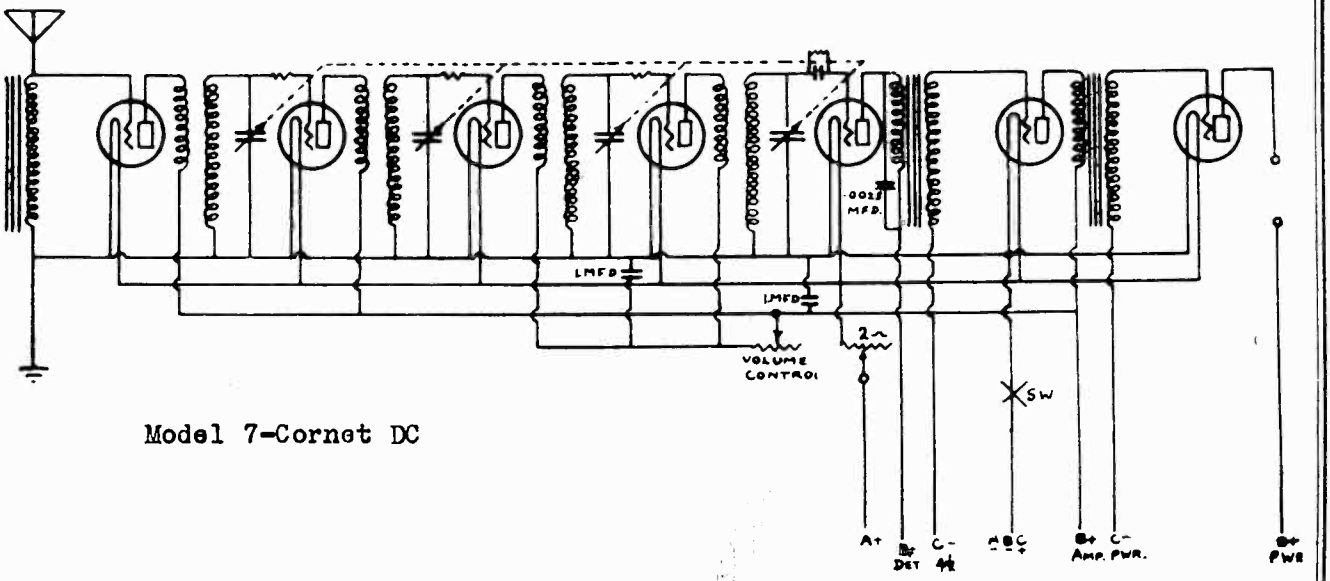
Model 6 Type 421



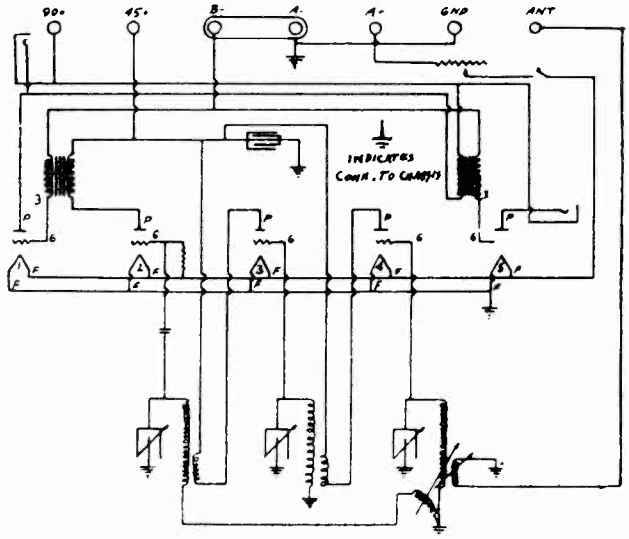
Model 6 Type 420

COLIN B. KENNEDY CORP.

MODEL 7-Cornet DC
MODEL 20 Type 440
MODEL 30 Type 435



Model 7-Cornet DC



Model 7 D.C.

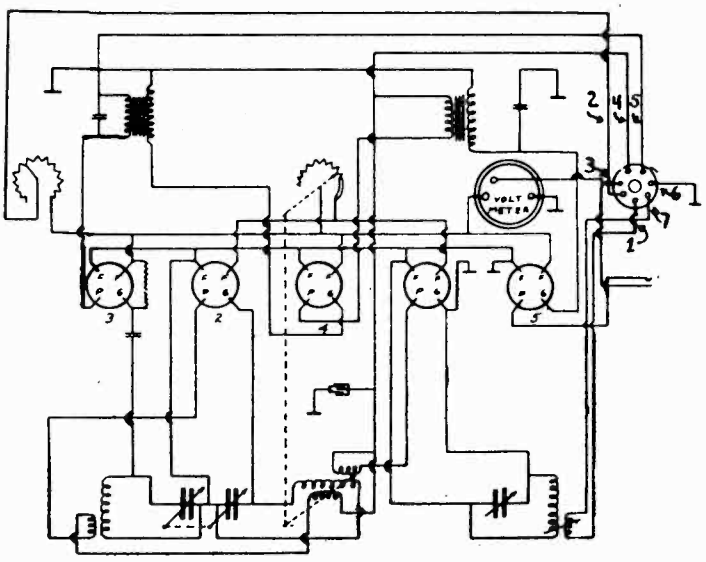
1RF	2RF	3RF	4RF	DET.
301-A	301-A	301-A	301-A	300-A
2AF 301-A				1AF 300-A

Model 20
Type 440
Tube Order
4,-3,-2,-1,-5.

Wiring Connections and Cable Colors

1 Antenna - Brown
2 +A - Red
3 +B3 - Pink
4+B2 - Blue
5 +B1 - Yellow
6 - A & B - Green
7 Ground - Black

Model 30
Type 435

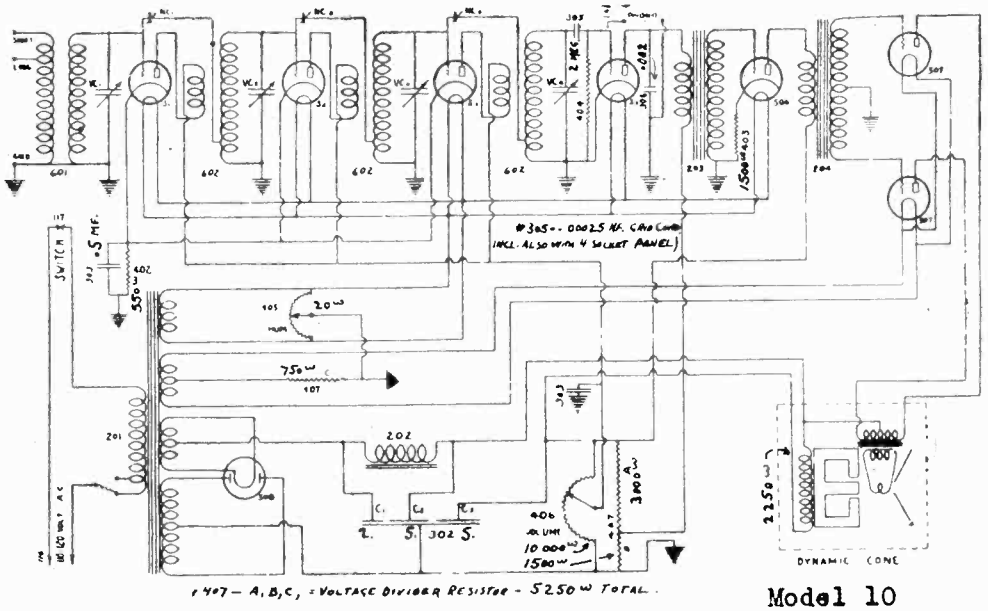


KENNEDY—Model 30-32
Line Voltage 120—Volume Control Full On

TUBE NO. IN ORDER TESTED (1)	TYPE OF TUBE (2)	POSITION OF TUBE IN SET (3)	METER READINGS WITH JEWELL TEST PLUG IN SOCKET OF SET — OPERATING VOLTAGES: FILAMENT OR HEATER (4)	PLATE OR ANODE (5)	CONTROL GRID — SPACE (6) (-G0 +)	NORMAL GRID — SCREEN (7) (-G0 +)	CATHODE TO HEATER (8)	MILLIAMPERES: SCREEN G2 (L & D2) PLATE (9)	PLATE (D + D2) (10) PLATE	TUBE TEST (11)
1	224	1 R.F.	2.3	160	3.5	60	-	-	2.2	
2	224	2 R.F.	2.3	160	3.5	60	-	-	2.4	
3	224	3 R.F.	2.3	160	3.5	60	-	-	2.2	
4	227	Det.	2.3	125	-	10	-	-	1.5	
5	227	1 A.F.	2.3	155	-	9	-	-	2.6	
6	245	PP-AF	2.3	230	-	45	-	-	28	
7	245	PP-AF	2.3	230	-	45	-	-	28..	
8	280	Rect.	4.8	-	-	-	-	45	45	

MODEL 10
MODEL 20

COLIN B. KENNEDY CORP.

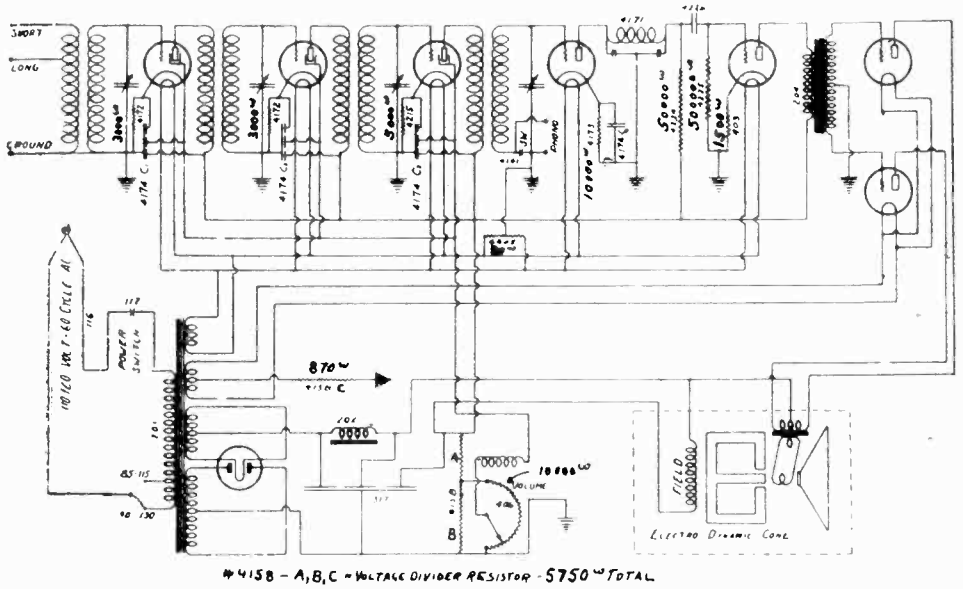


#407 - A, B, C, = VOLTAGE DIVIDER RESISTOR - 5250 Ω TOTAL

Model 10

KENNEDY—Model 10
Line Voltage 112—Set on 120 Volt Tap

TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE AS SET FACES	READINGS PLUG IN SOCKET OF SET — TUBE OUT A VOLTS	TUBE OUT B VOLTS	TUBE OUT C VOLTS (CONTROL GRID)	TUBE IN TESTER CATHODE HEATER VOLTS	TUBE IN TESTER NORMAL PLATE MA.	TUBE IN TESTER PLATE MA & GRID VOLTS	TUBE IN TESTER PLATE CHANGE TEST	TUBE IN TESTER PLATE MA.	TUBE IN TESTER SCREEN GRID VOLTS
1	227	1st RF	2.45	130	2.37	6	5.8	5.8	5		
2	227	2nd RF	2.45	130	2.37	6	5.8	6.8	3		
3	227	3rd RF	2.45	130	2.37	6	5.6	6.8	3		
4	227	Det.	2.45	136	2.37	0	2.1	2.1	0		
5	227	1st AF	2.45	160	2.37	9	4.8	6.5	1.7		
6	245	Pwr.	2.45	290	2.45	45	-	30	5		
7	245	Pwr.	2.45	290	2.45	45	-	30	5		
8	280	Rect.	5		5.0	-	-	112	-	-	



#4158 - A, B, C = VOLTAGE DIVIDER RESISTOR - 5750 Ω TOTAL

Model 20

KENNEDY—Model 20—Screen Grid
Line Voltage 112—Set on 120 Volt Tap

TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE AS SET FACES	READINGS PLUG IN SOCKET OF SET — TUBE OUT A VOLTS	TUBE OUT B VOLTS	TUBE OUT C VOLTS (CONTROL GRID)	TUBE IN TESTER CATHODE HEATER VOLTS	TUBE IN TESTER NORMAL PLATE MA.	TUBE IN TESTER PLATE MA & GRID VOLTS	TUBE IN TESTER PLATE CHANGE TEST	TUBE IN TESTER PLATE MA.	TUBE IN TESTER SCREEN GRID VOLTS
1	224	1st RF	2.45	165	2.35	3.5	1	4	3		65
2	224	2nd RF	2.45	165	2.35	3.0	1.0	4	3		65
3	224	3rd RF	2.45	165	2.35	3.0	1.6	4	3		65
4	227	Det.	2.45	150	2.35	10.0	1.8	5	1.2		-
5	227	1st AF	2.45	110	2.38	10.0	7.4	9	1.5		-
6	245	Pwr.	2.45	285	2.36	45	-	36	30	4	-
7	245	Pwr.	2.45	285	2.36	45	-	36	30	4	-
8	280	Rect.	5	-	4.8	-	-	80	-	-	-

20, (A.C.)

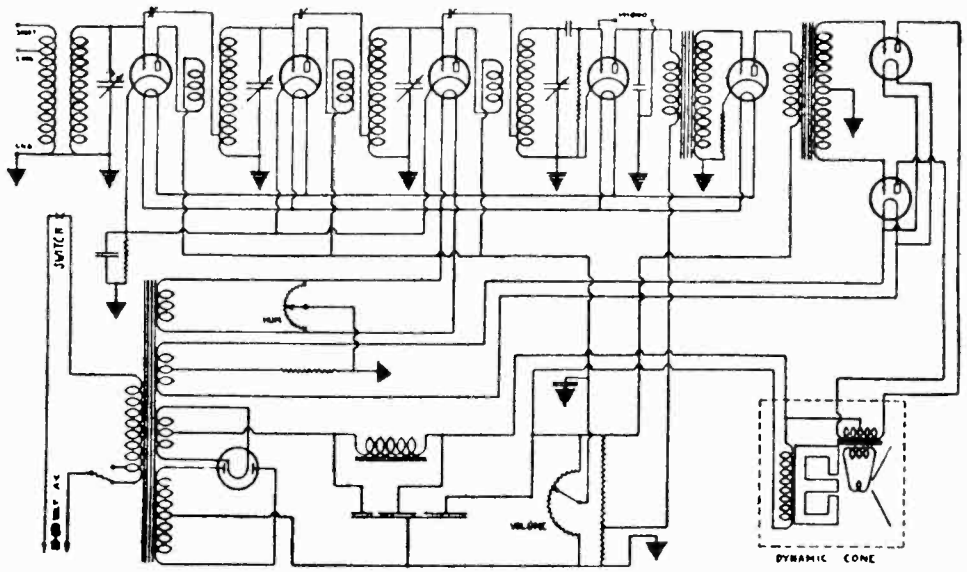
CX-380 Rect.
CX-345 2nd A.F.
CX-345 2nd A.F.
C-324 1st R.F.
C-324 2nd R.F.
C-324 3rd R.F.
C-327 Det.
C-327 2nd A.F.

10 (A.C.)

1 RF C-327
2 RF C-327
3 RF C-327
1 AF C-327
DET. C-327
RECT. CX 380
2 AF CX-345

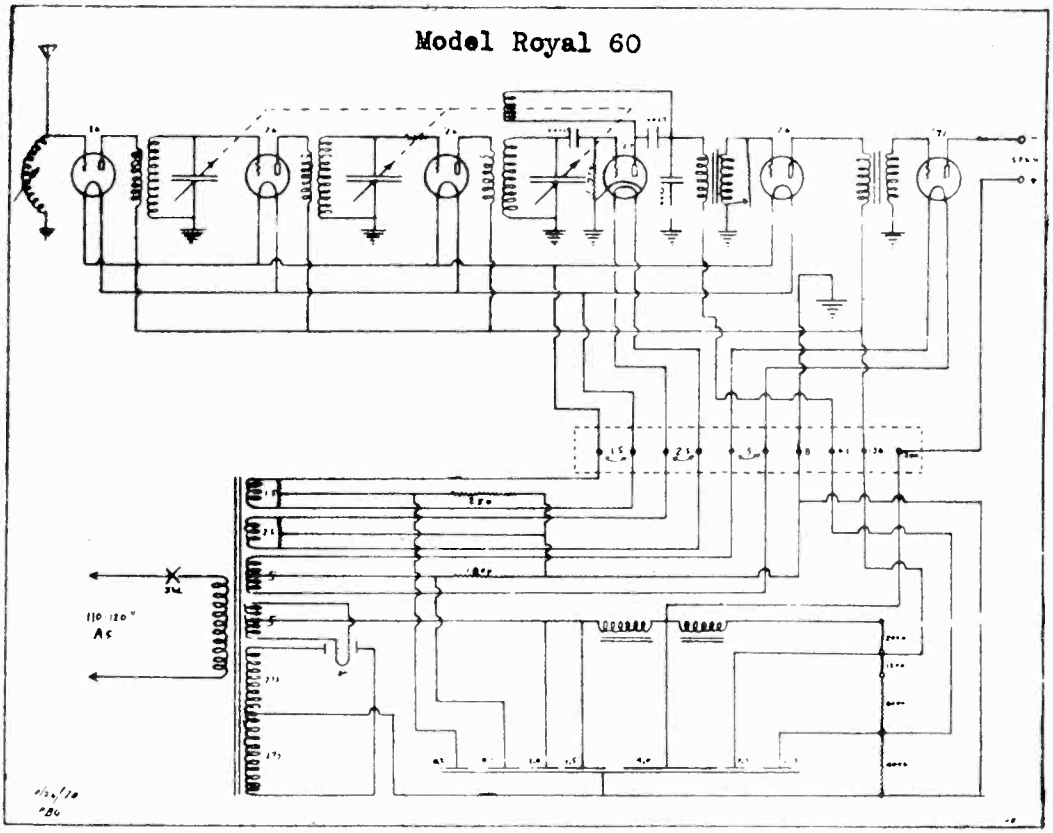
MODEL Royal
MODEL Royal 60

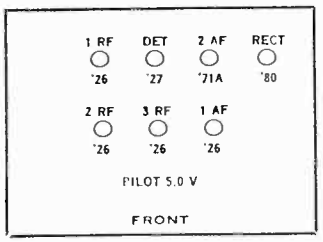
COLIN B. KENNEDY CORP.



Model Royal

Model Royal 60





MODEL 26
Schematic
Chassis, Notes

COLIN B. KENNEDY CORP.

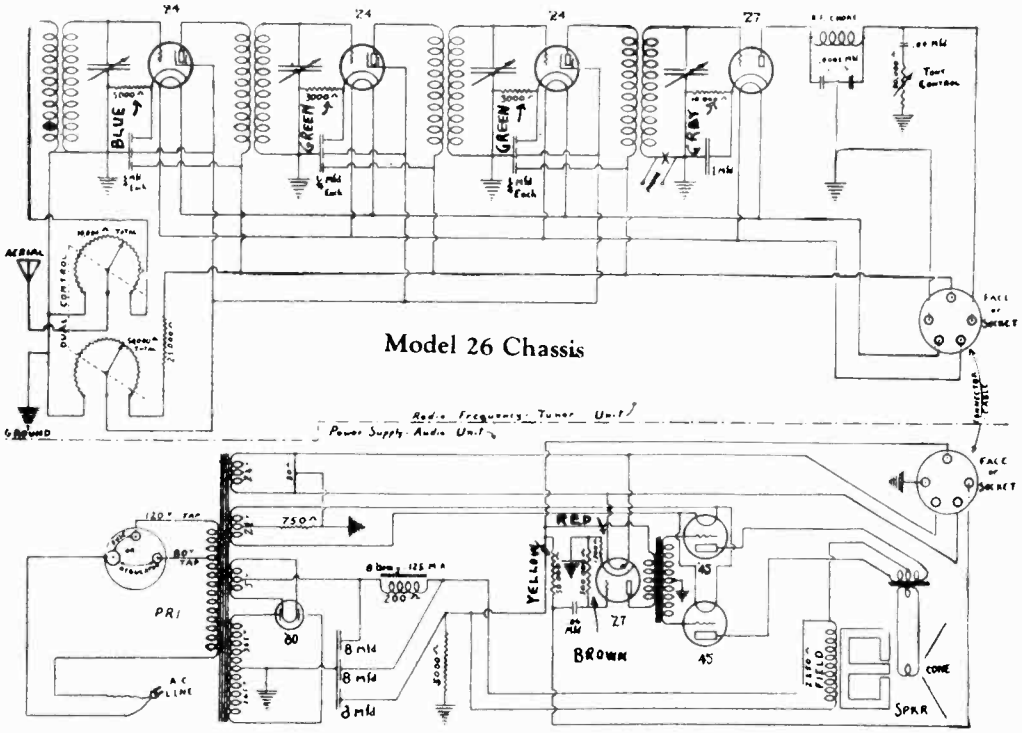
Special Note—Regulator Tubes

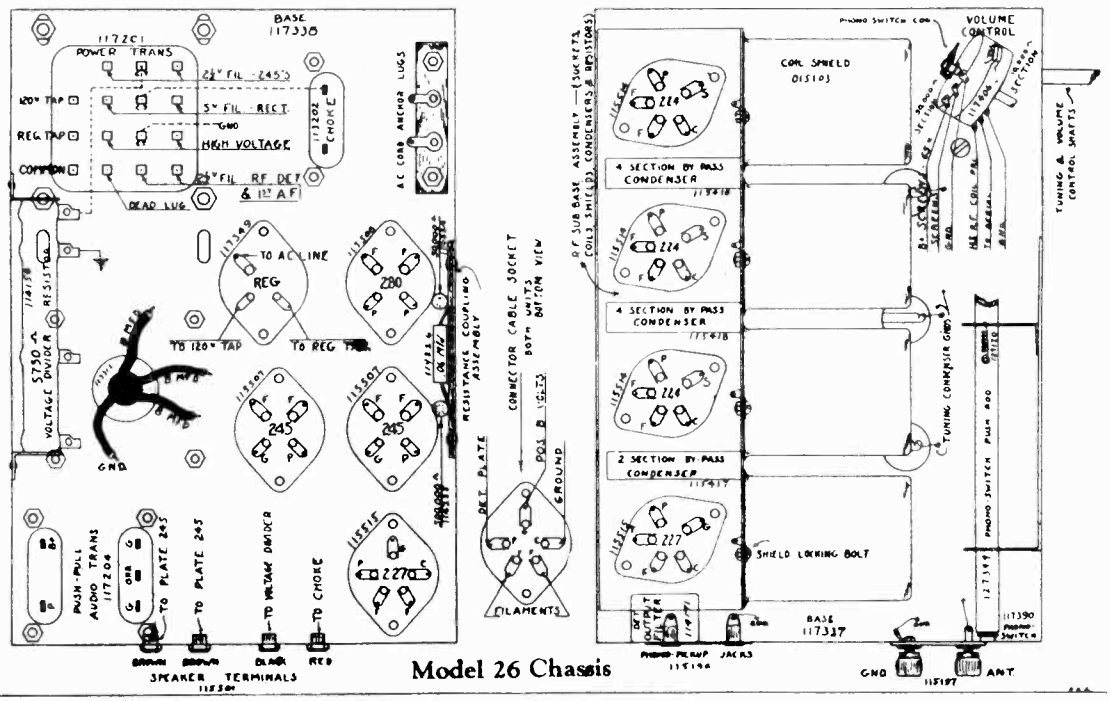
The Duresite type 415 line voltage regulator tube has been recommended for Kennedy Model 26 receivers. This tube is unsatisfactory for the model 826-B, however, as the short wave receiver adds to the current draw. The proper Duresite regulator tube for the long wave-short wave chassis only (model 826-B) is type 449

The chassis model 26 is provided with an extra socket for a voltage regulator tube. Receivers are shipped with a plug in this socket which contains a line fuse. The plug automatically connects the line through the fuse, onto the 120 volt primary tap. Thus transformer tap will provide sufficiently accurate voltages to the set between line voltages of about 108 to 125

The resistance values of the various colored biasing resistors employed are as follows

Green	3,000 ohms	Yellow	50,000 ohms.
Blue	5,000 ohms	Brown	500,000 ohms
Grey	10,000 ohms	Red	1,500 ohms



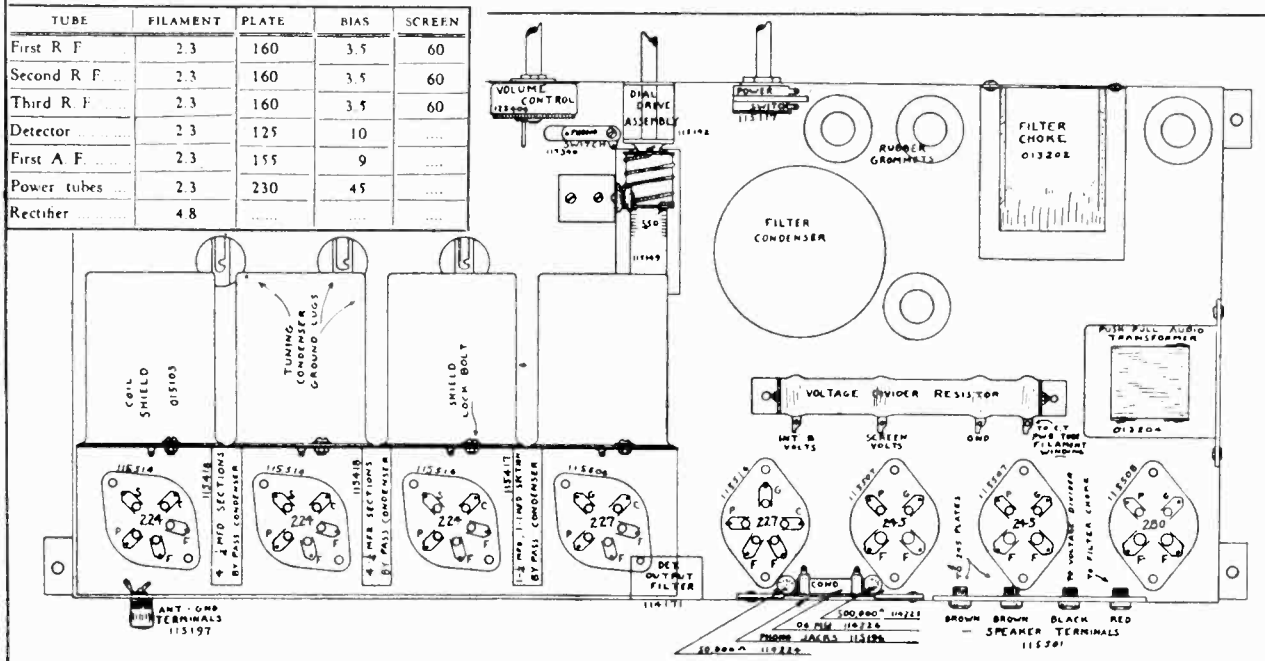


COLIN B. KENNEDY CORP.

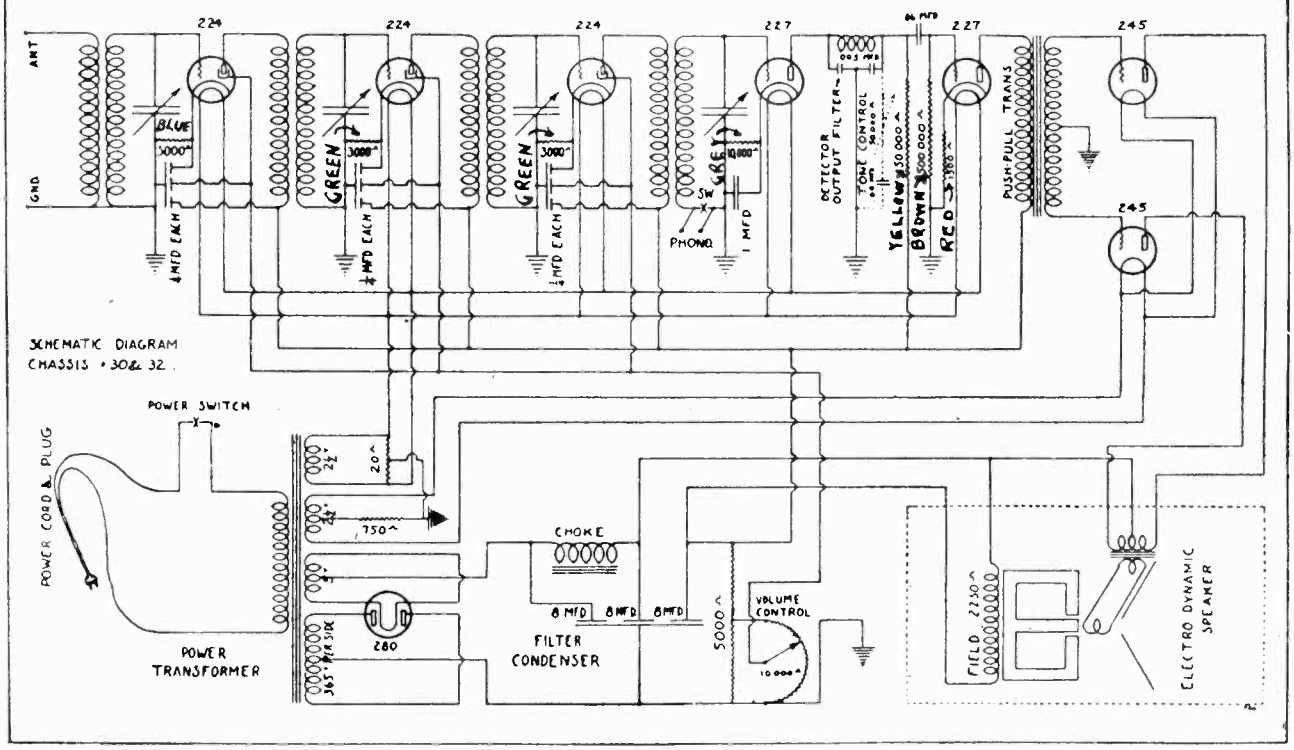
MODEL 30 & 32
Schematic
Chassis

Socket and Transformer Terminal Diagram of Model 30 and 32 Chassis

TUBE	FILAMENT	PLATE	BIAS	SCREEN
First R F	2.3	160	3.5	60
Second R F	2.3	160	3.5	60
Third R F	2.3	160	3.5	60
Detector	2.3	125	10	....
First A F	2.3	155	9	....
Power tubes	2.3	230	45	....
Rectifier	4.8	.....	.....	.....

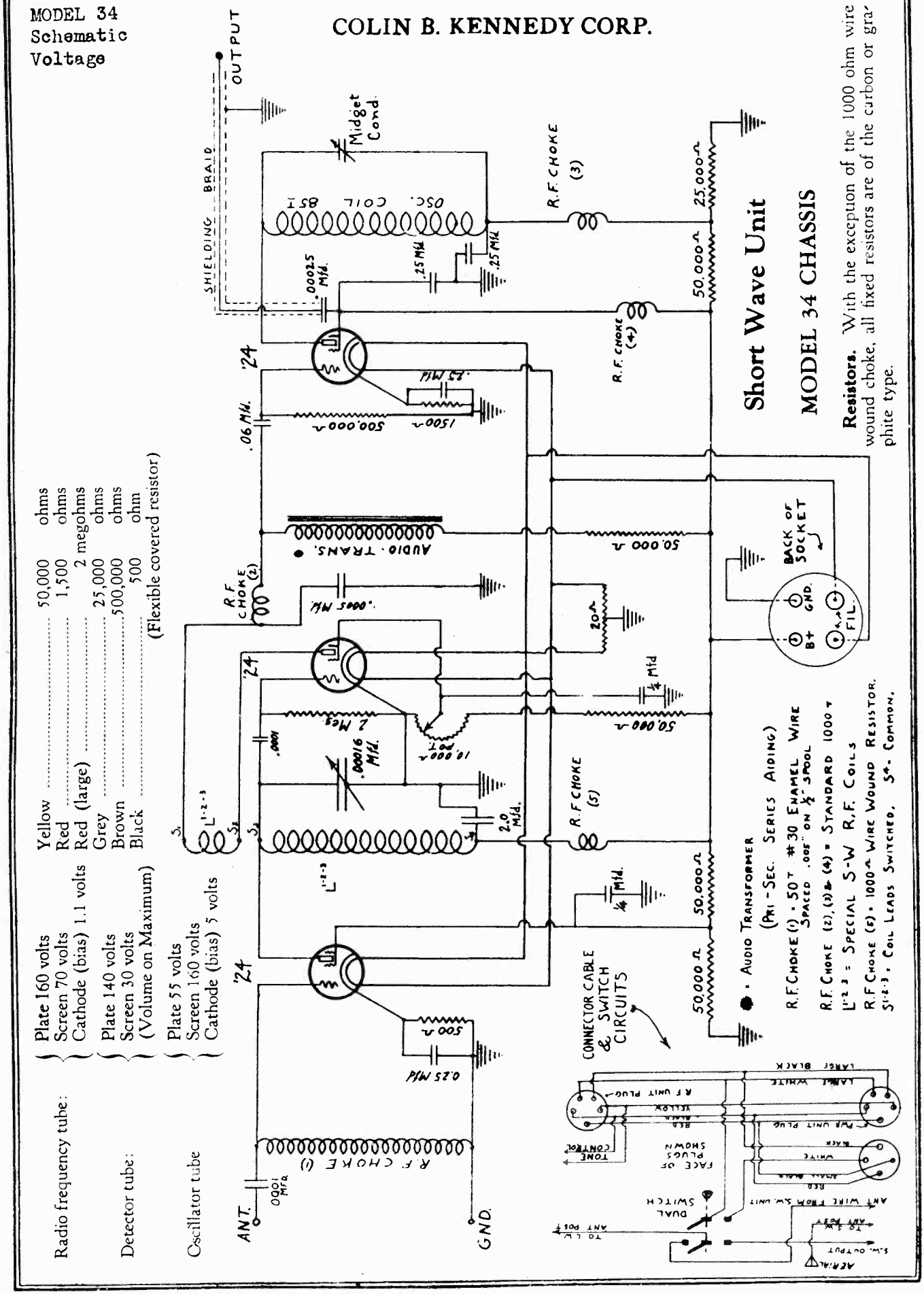


Schematic Circuit Diagram of Model 30 and 32 Chassis



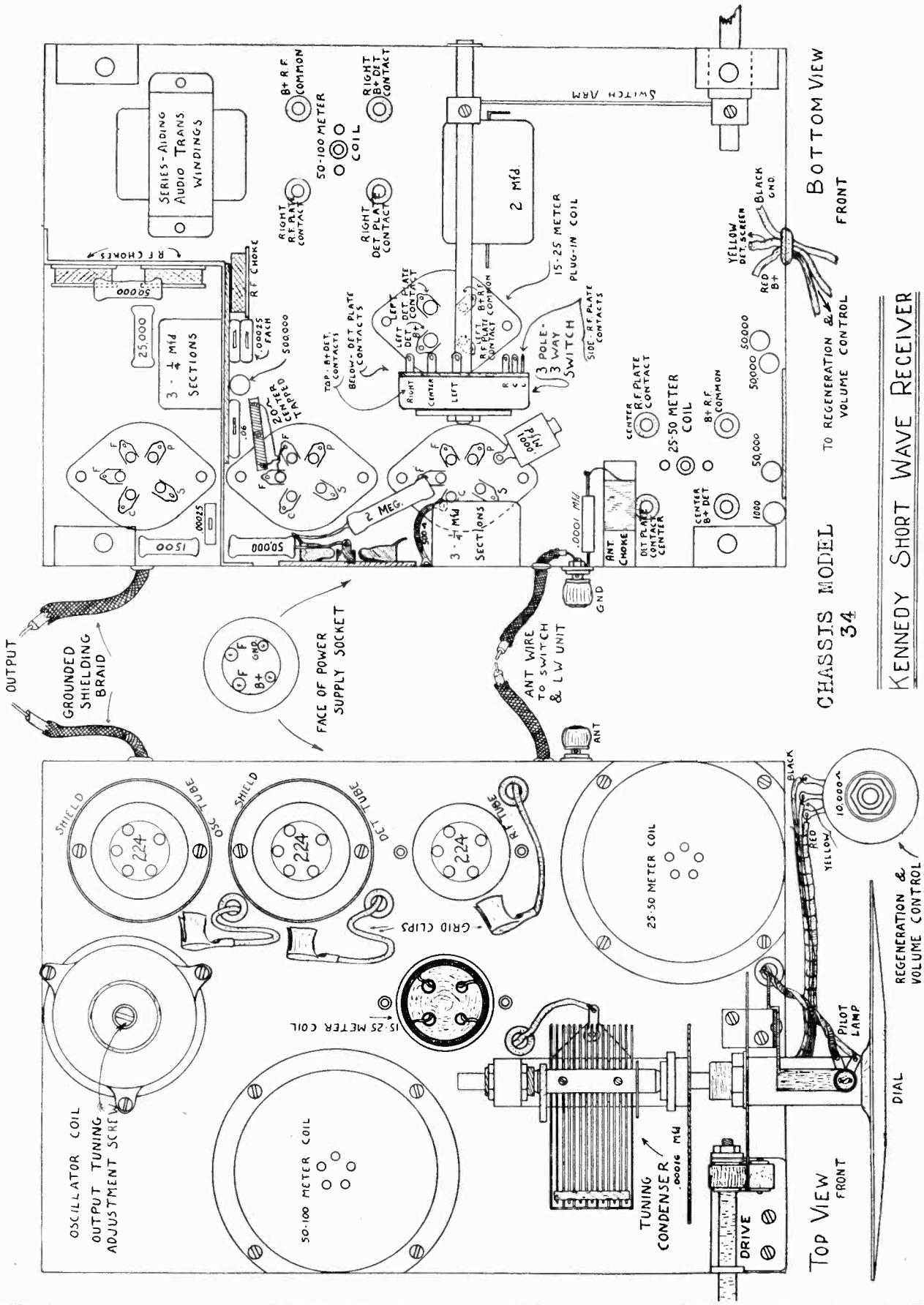
MODEL 34
Schematic
Voltage

COLIN B. KENNEDY CORP.



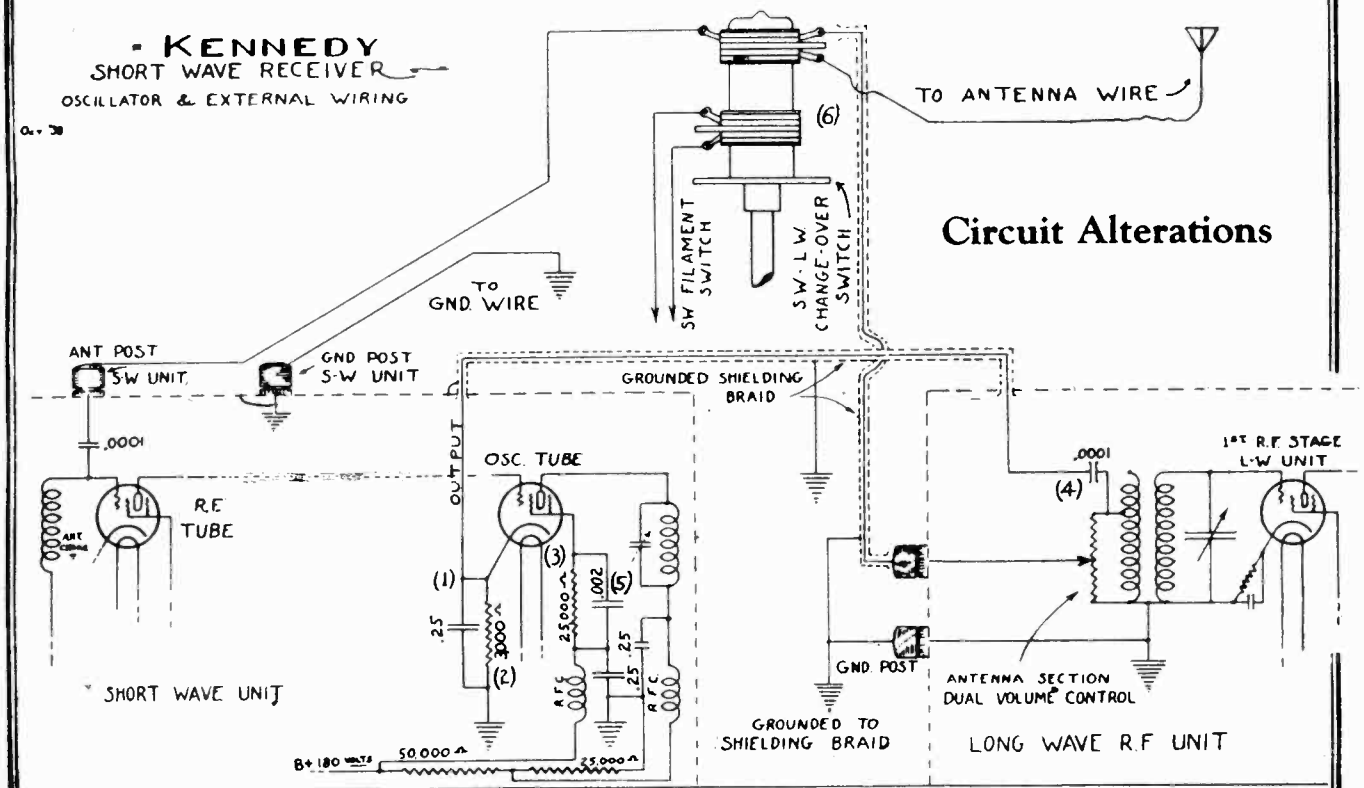
COLIN B. KENNEDY CORP.

MODEL 34
Chassis



MODEL 34
Oscillator
Data

COLIN B. KENNEDY CORP.



Circuit Alterations

Short Wave Chassis Model 34

Certain minor alterations in wiring, as well as the addition of a few small parts, have been made in the production of the short wave chassis, model 34.

These changes have been made as they increase the ease in handling and the efficiency of the unit, but are not recommended for units built prior to the time of their adoption in production.

Variations in the circuit diagram in this booklet are shown in the illustration on this page. It will be noted that the changes have been made in the oscillator and external wiring circuits only—the short wave radio frequency stage and detector remaining entirely as previously indicated. The changes are as follows, numbers corresponding to those on illustration.

(1) The short wave oscillator output is now taken from the cathode of the oscillator tube instead of the screen.

(2) A 3,000-ohm biasing resistor replaces the 1,500-ohm resistor previously indicated at the oscillator cathode.

(3) A 25,000-ohm graphite resistor has been placed in the screen circuit between the R. F. choke and screen.

(4) A .0001 mfd. condenser has been placed in the long wave R. F. unit, at the ungrounded end of the volume control.

(5) A .002 mfd. condenser is placed across the 25,000-ohm screen grid series resistor.

(6) The long wave-short wave change over switch is rewired as indicated in the accompanying diagram. The portion of the switch utilized in turning the filaments of the S-W unit on and off remains unchanged. The other portion, single pole-double throw, is now rewired so that the antenna is thrown to either short wave or long wave units as required, being entirely disconnected from the unit it is not intended to connect to. The antenna is now connected to the center pole of this switch, as per diagram.

It will be noted that the short wave unit output now connects permanently to the long wave antenna coil primary through the .0001 mfd. condenser located in the long wave R. F. unit, without being cut in and out by the change over switch, as formerly. This does not add a noticeable load to this circuit, for long wave reception, so does not need to be switched.

Shielding braid is used over the short wave output wire, and the wire from the switch to the antenna post of the long wave unit.

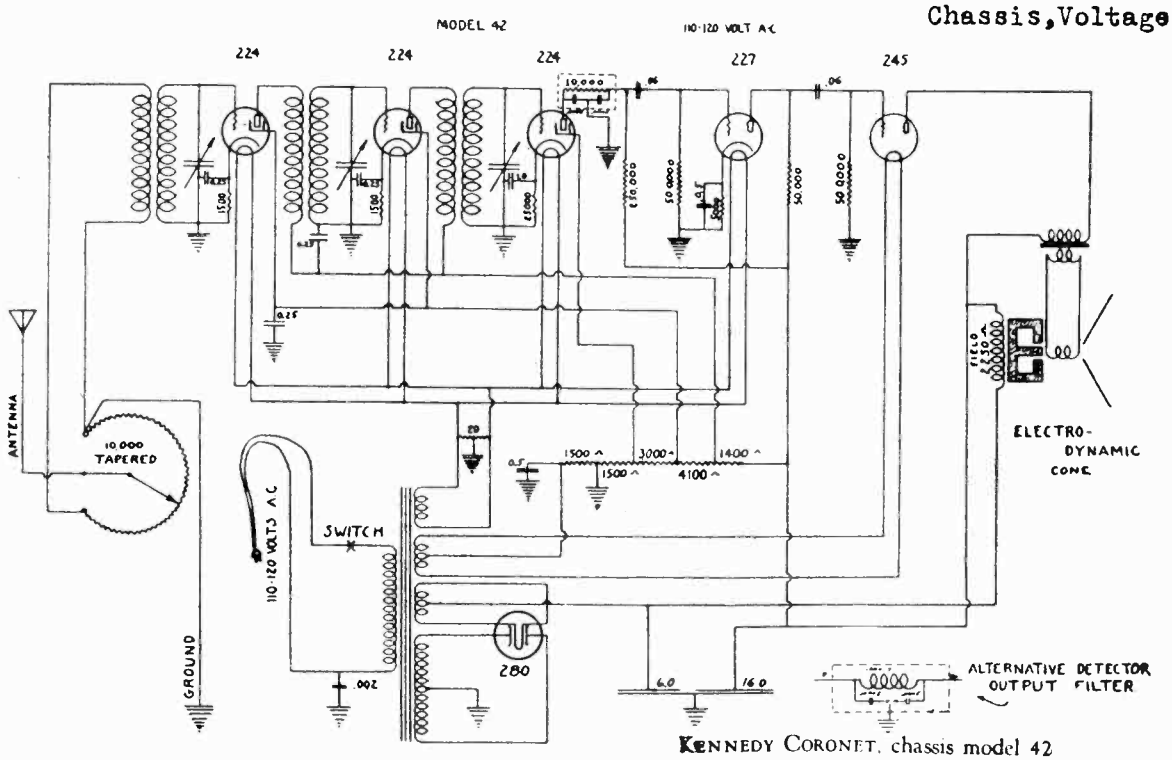
The 10,000-ohm wire wound regeneration and volume control, in the short wave unit, has been replaced by a 10,000-ohm graphite control. This provides a smooth control—less inclined to be noisy.

The ground wire is connected to the ground post of the short wave unit, as formerly indicated.

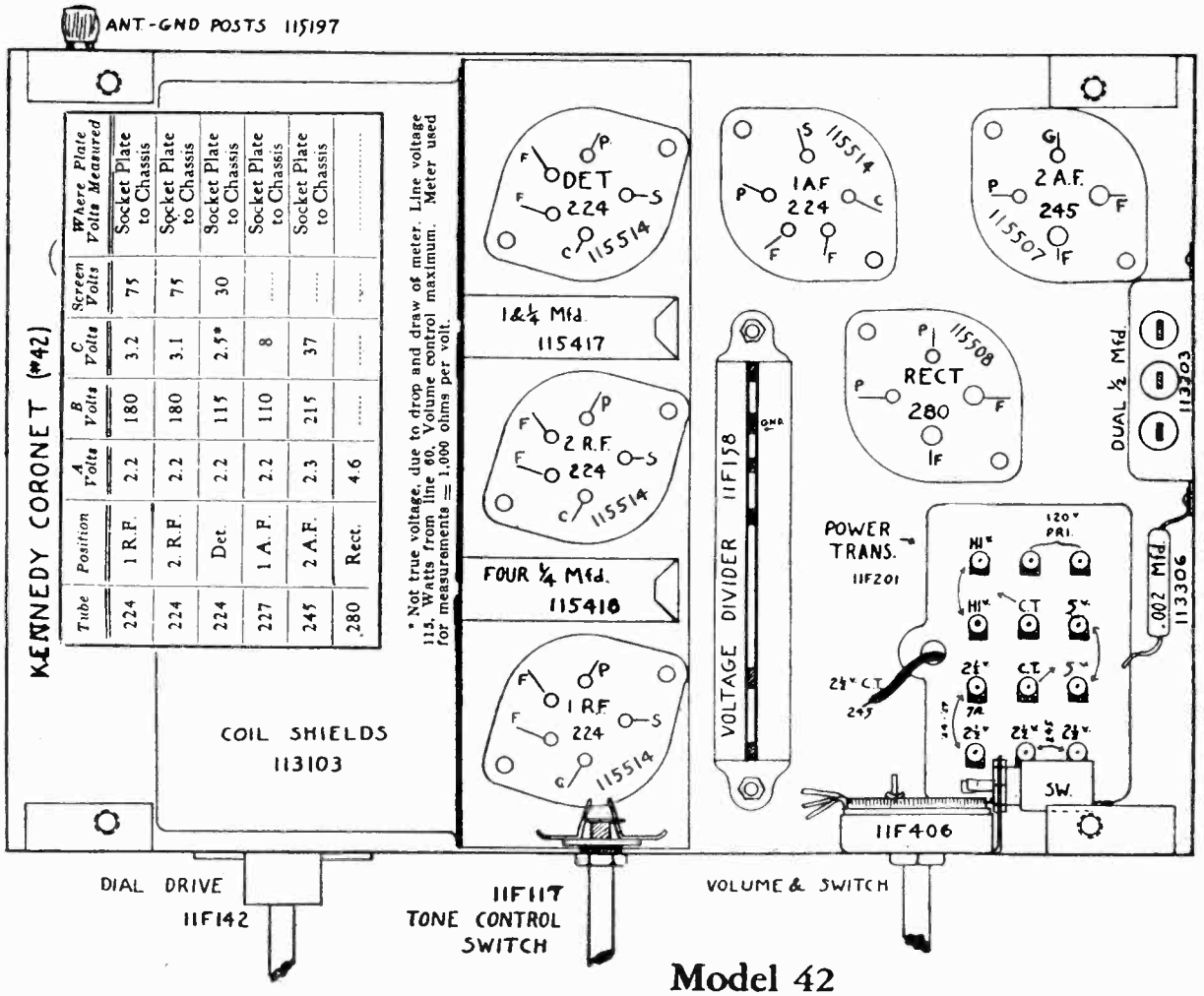
The antenna is now connected to the wire leading from the changeover switch.

COLIN B. KENNEDY CORP

MODEL Coronet 42
Schematic
Chassis, Voltage



KENNEDY CORONET, chassis model 42



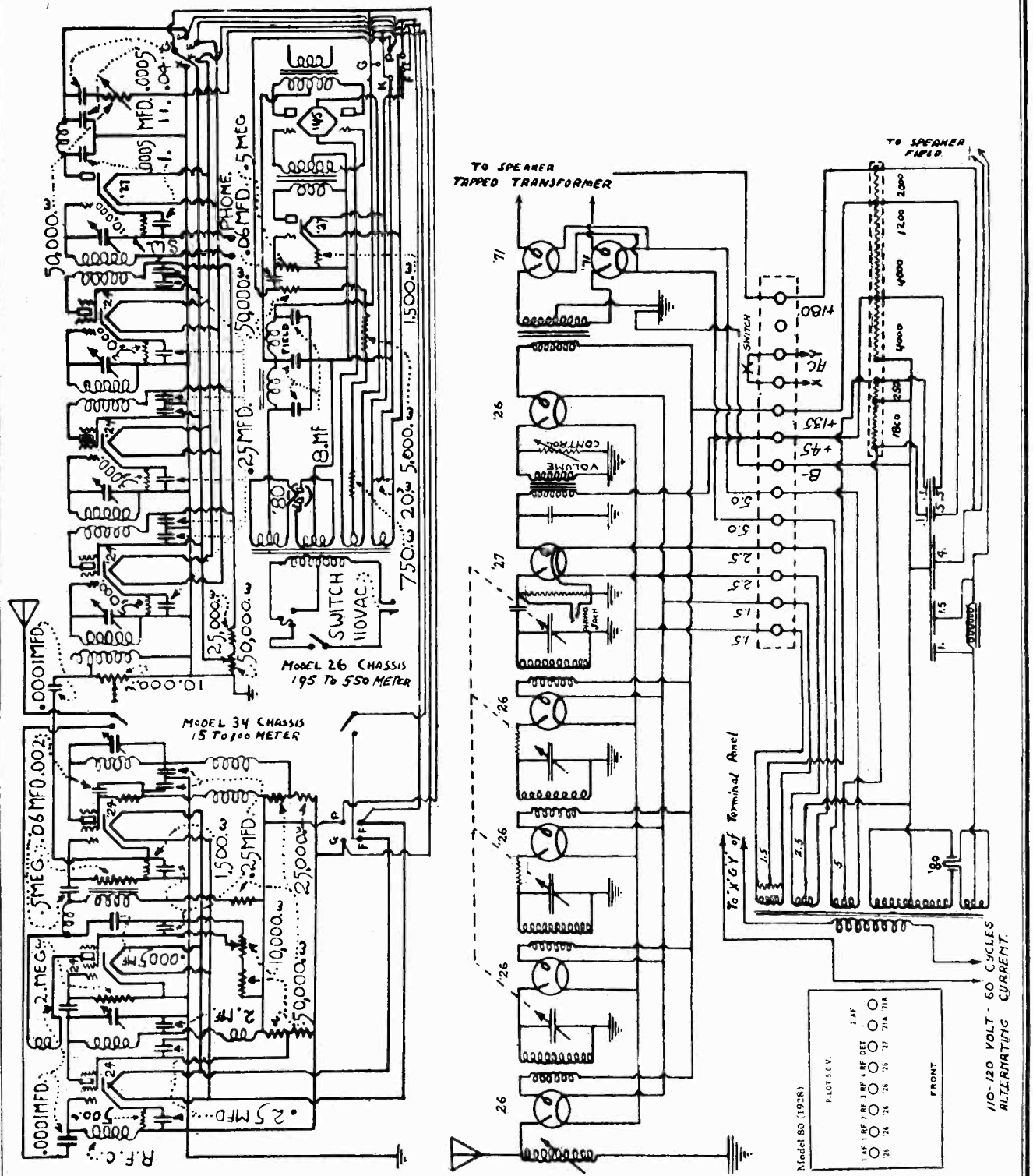
Tube	Position	A Volts	B Volts	C Volts	Screen Volts	Where Plate Volts Measured
224	1 R.F.	2.2	180	3.2	75	Socket Plate to Chassis
224	2 R.F.	2.2	180	3.1	75	Socket Plate to Chassis
224	Det.	2.2	115	2.5*	30	Socket Plate to Chassis
227	1 A.F.	2.2	110	8	.....	Socket Plate to Chassis
245	2 A.F.	2.3	215	37	.....	Socket Plate to Chassis
280	Rect.	4.6	.....	.....	.....	.....

* Not true voltage, due to drop and draw of meter. Line voltage 113. Watts from line 60. Volume control maximum. Meter used for measurements = 1,000 ohms per volt.

Model 42

COLIN B. KENNEDY CORP.

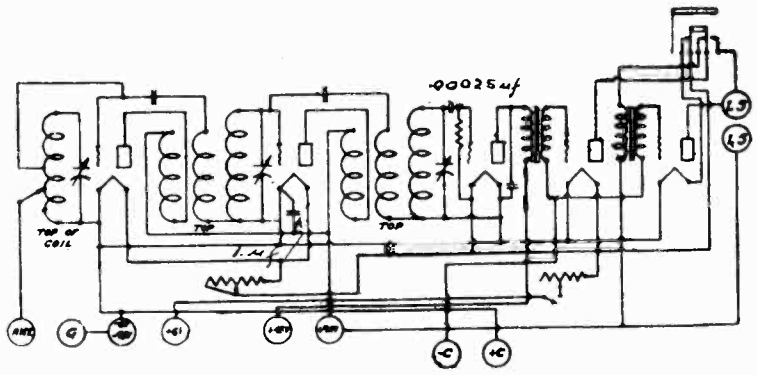
MODEL Royal 80
MODEL 826-B



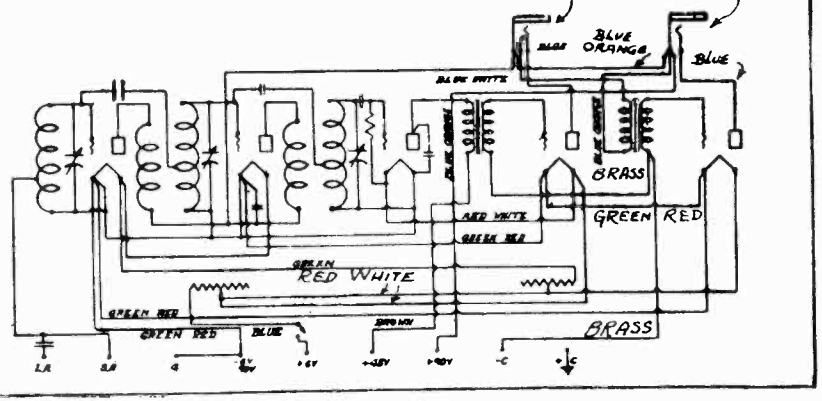
KING MFG. CORP.

MODEL 10 K1, 10 SK
MODEL 25
MODEL 30

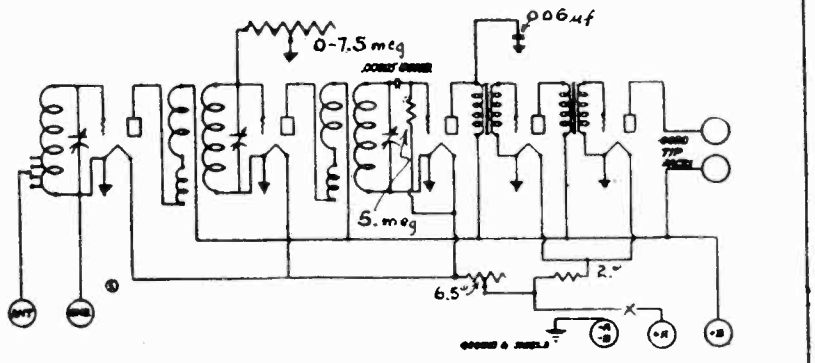
MODEL 25 NEUT RECEIVER



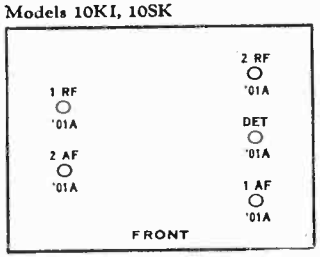
MODEL 10KI NEUT. RECEIVER



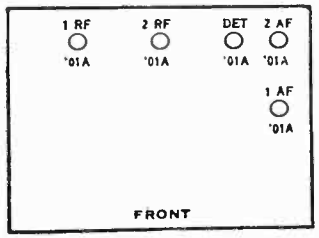
MODEL 30 T.R.F. RECEIVER



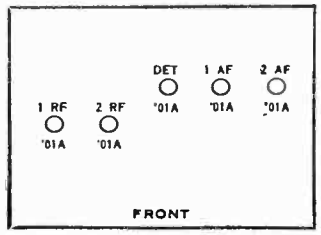
Models 10KI, 10SK



Models 30, 40

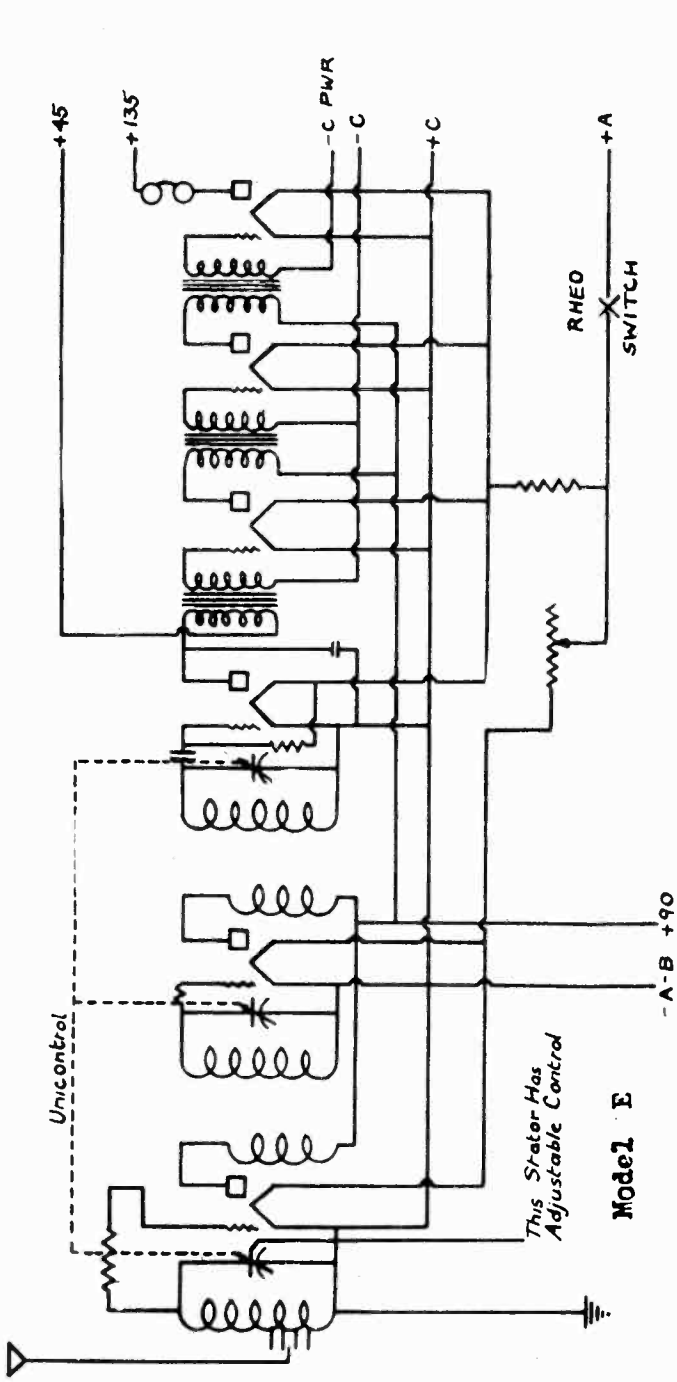


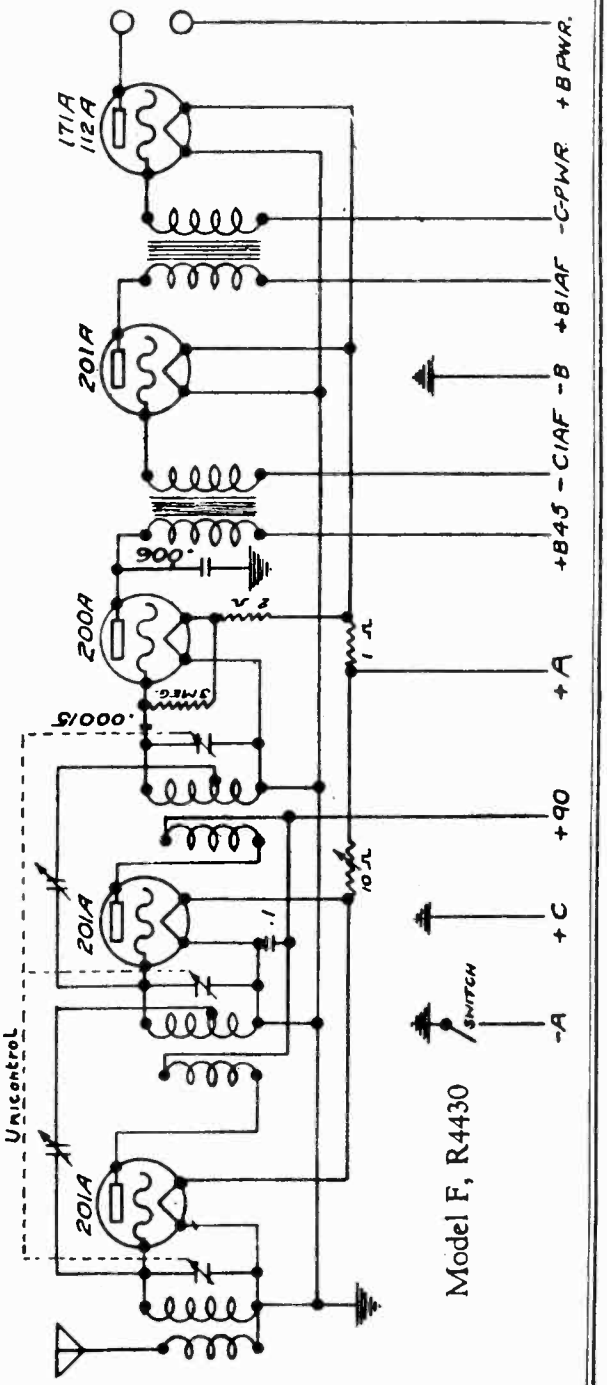
Model 25



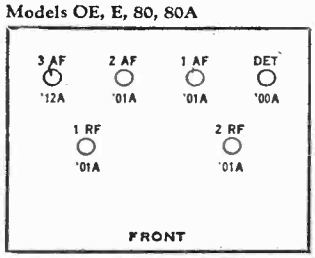
MODEL E
MODEL F

KING MFG. CORP.

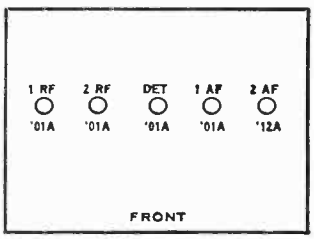




Models OE, E, 80, 80A

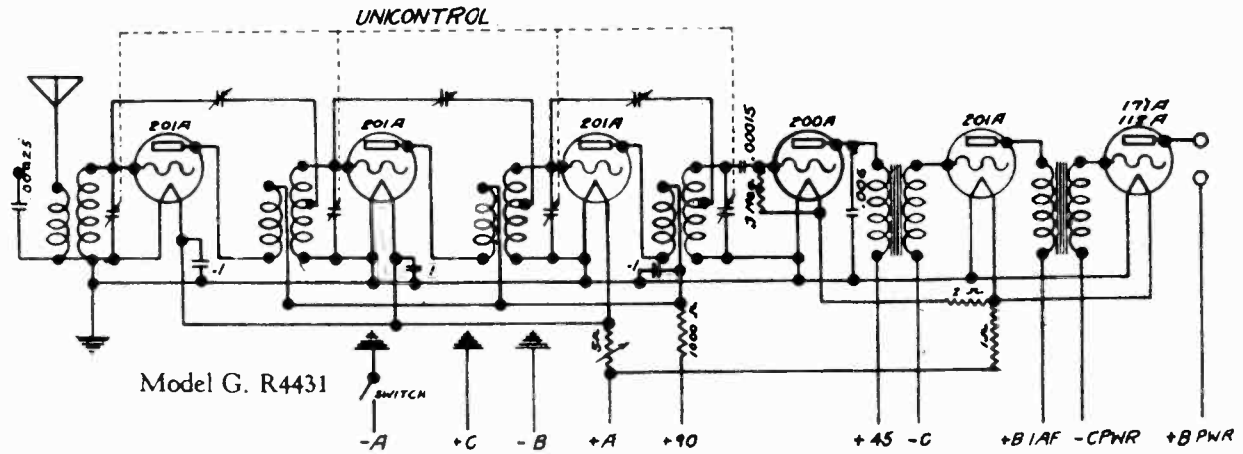


Model F

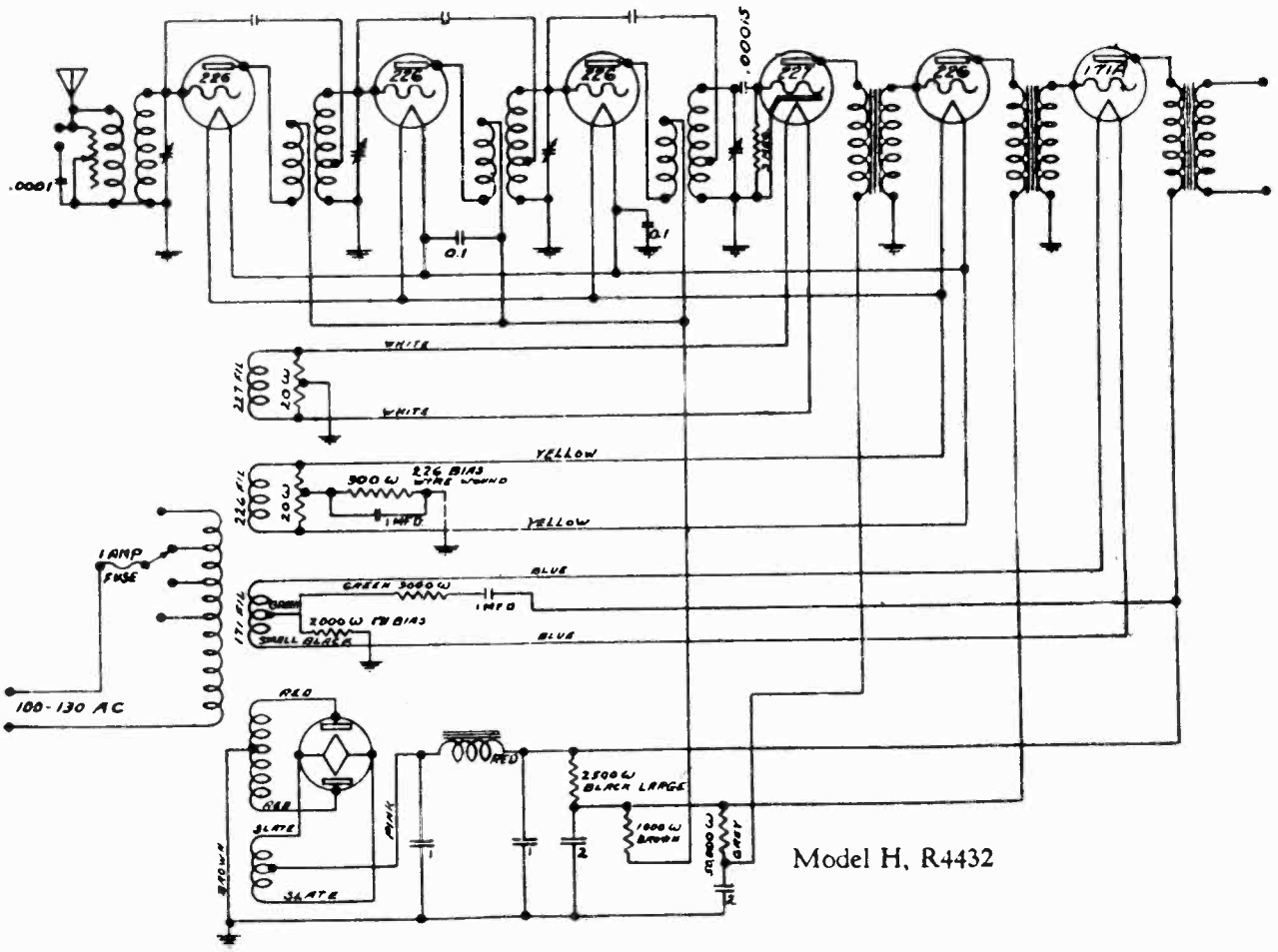


KING MFG. CORP.

MODEL G
MODEL H

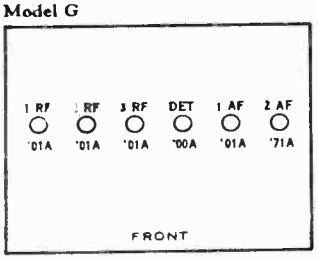


Model G. R4431

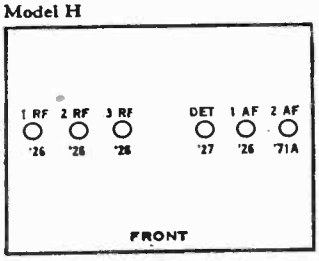


Model H, R4432

Model G

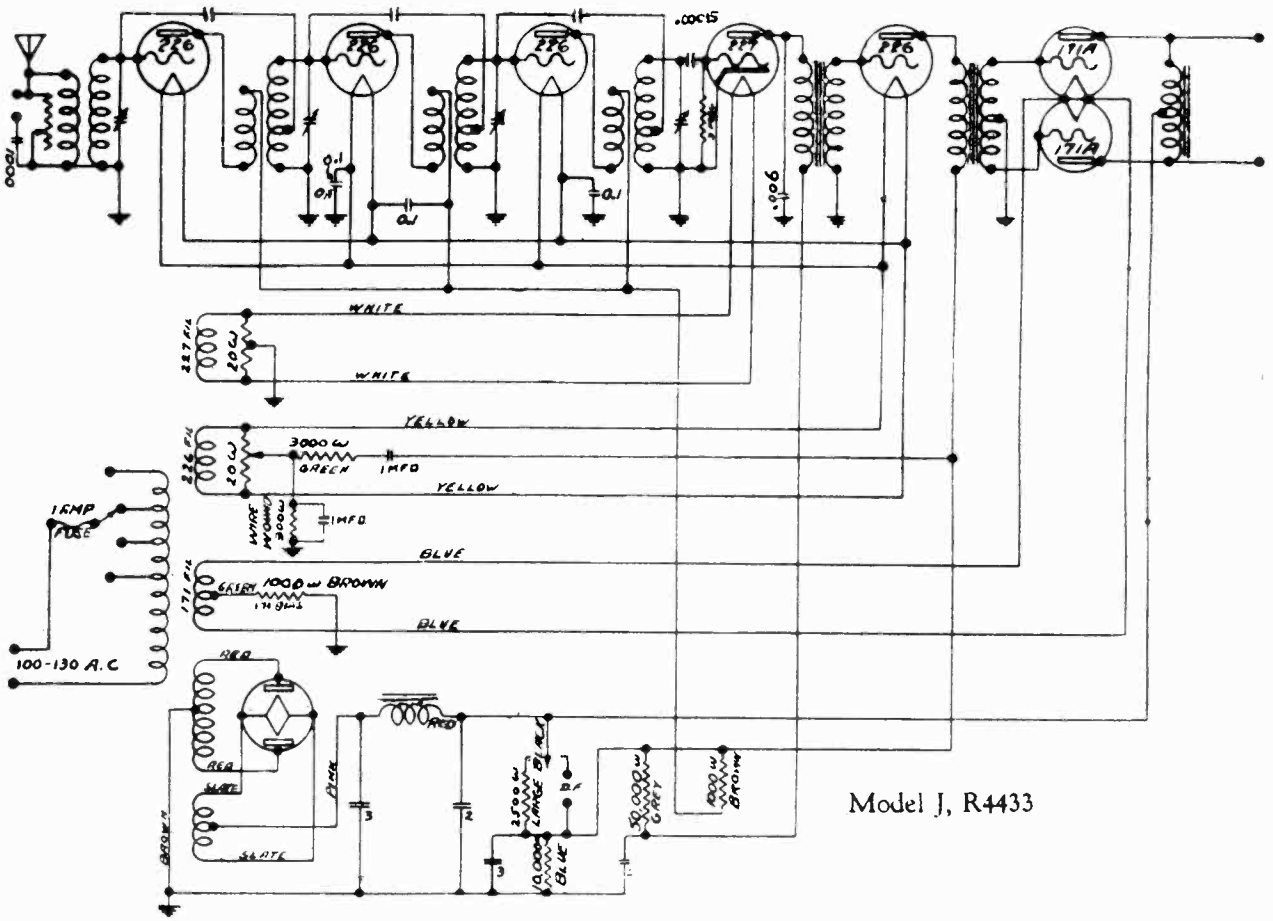


Model H

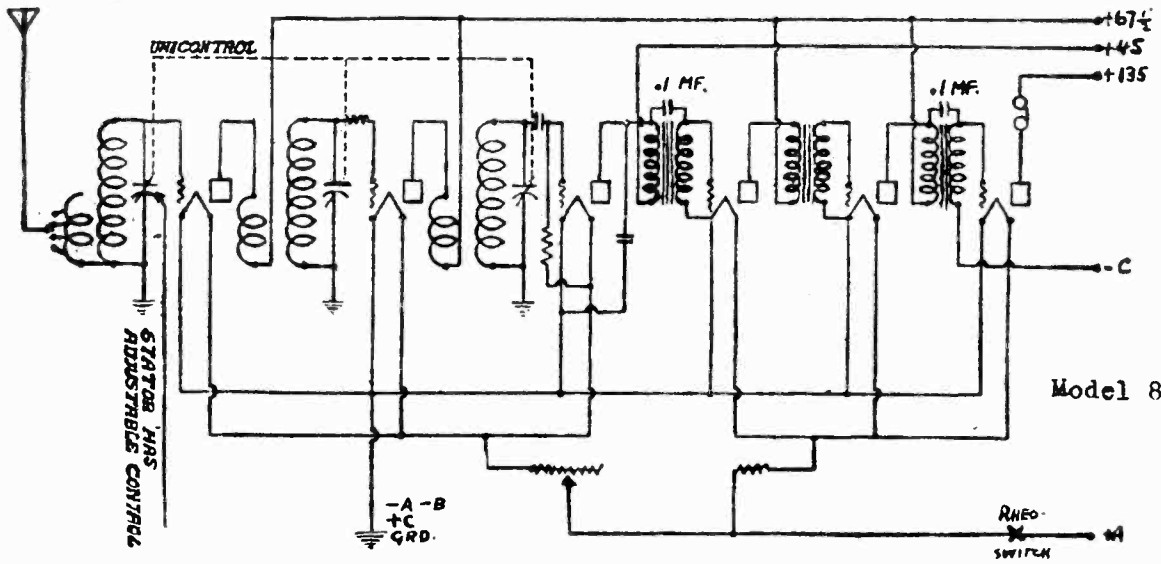


MODEL J
MODEL 80

KING MFG. CORP.

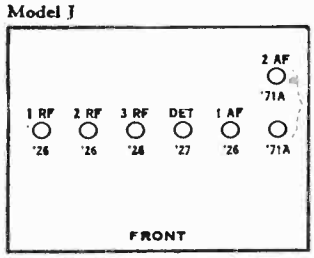


Model J, R4433

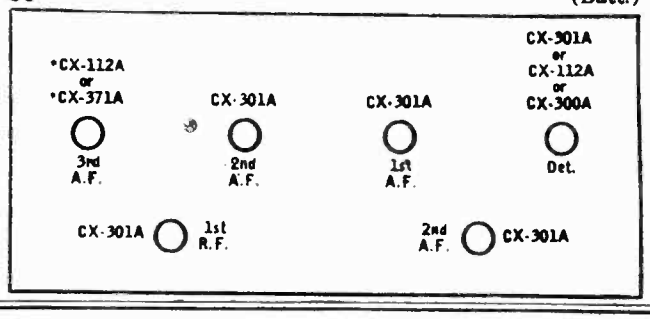


Model 80

Model J

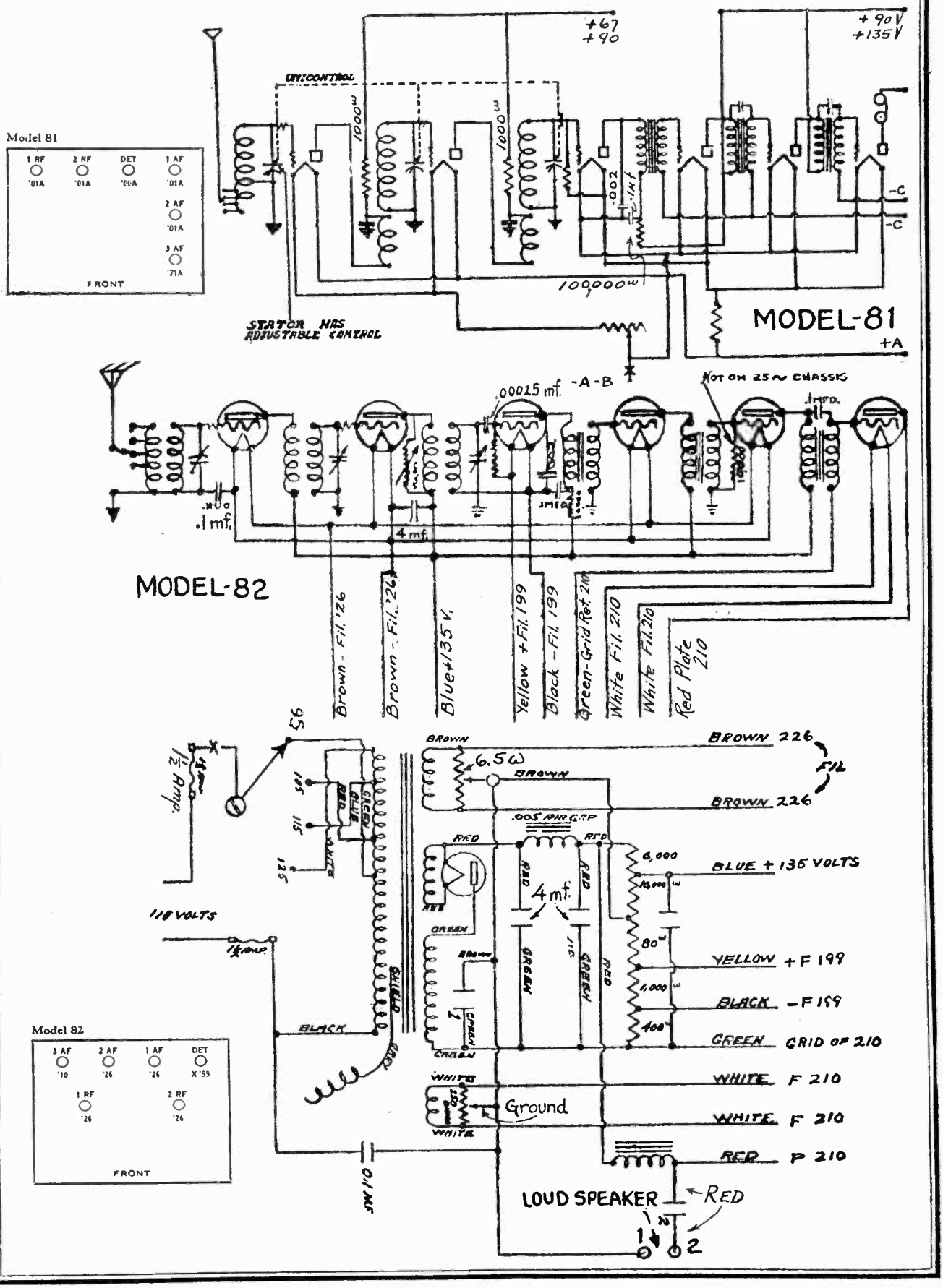


80 (Batt.)



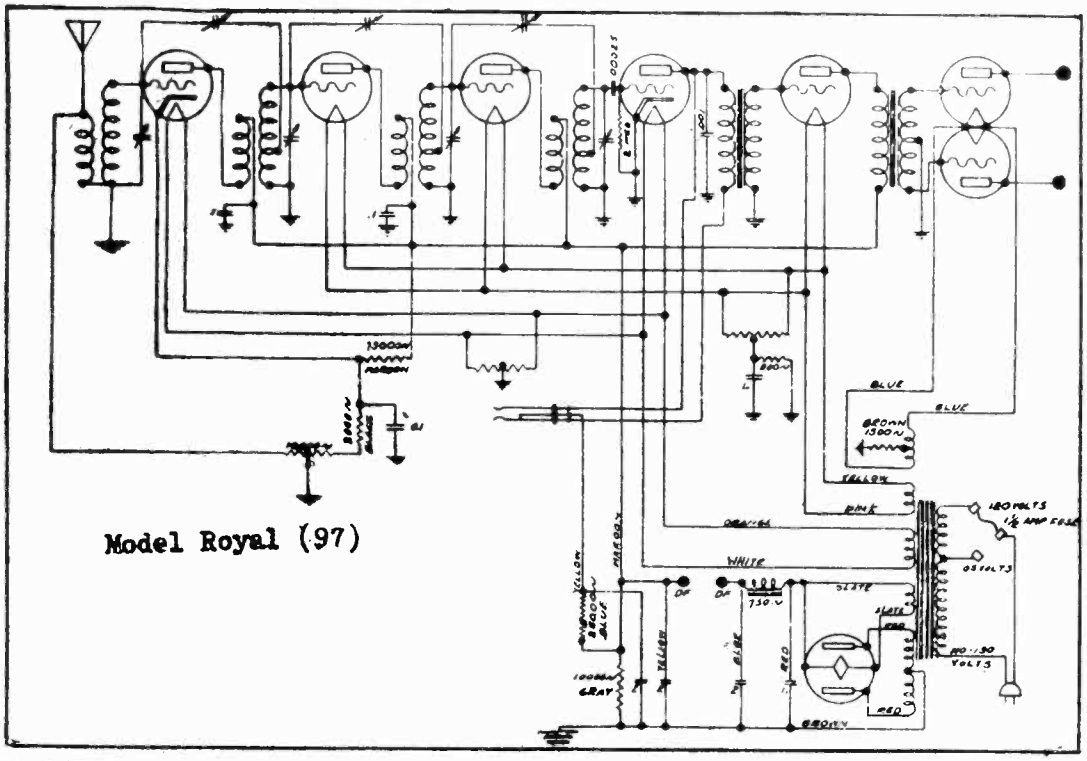
KING MFG CORP.

MODEL 81
MODEL 82

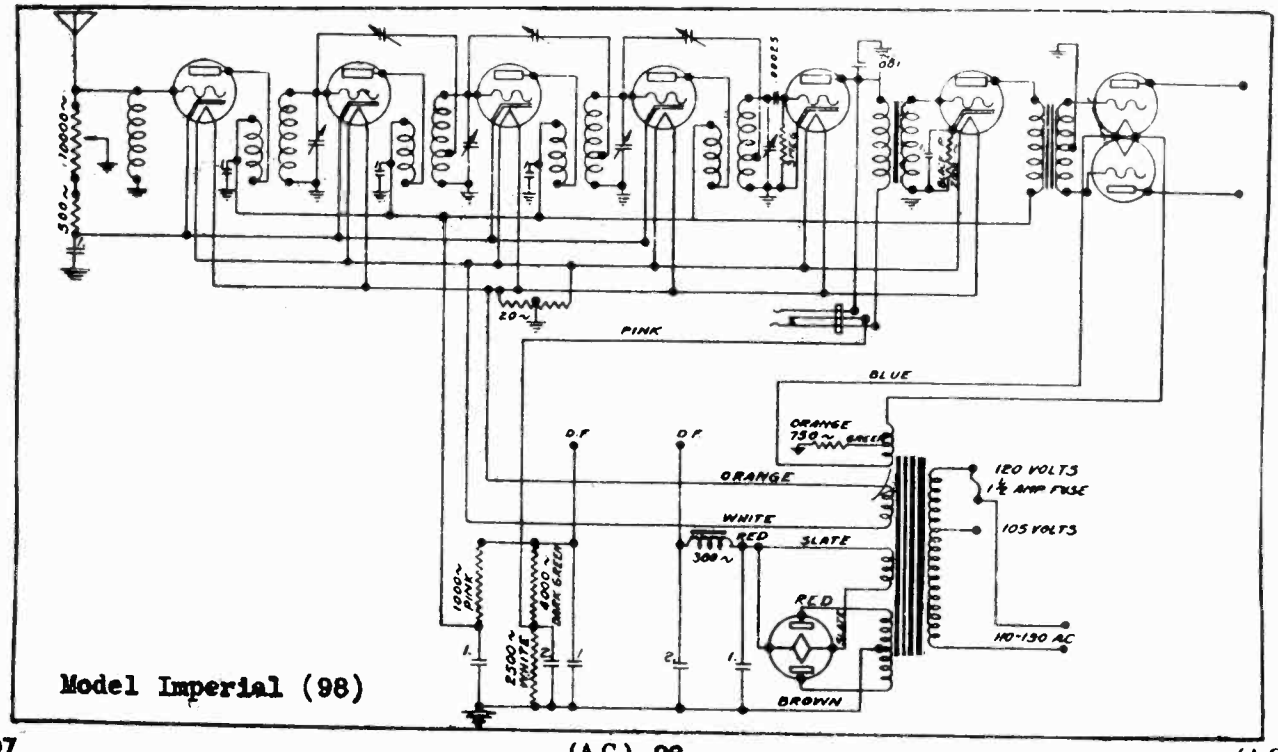


MODEL ROYAL (97)
MODEL IMPERIAL (98)

KING MFG. CORP.

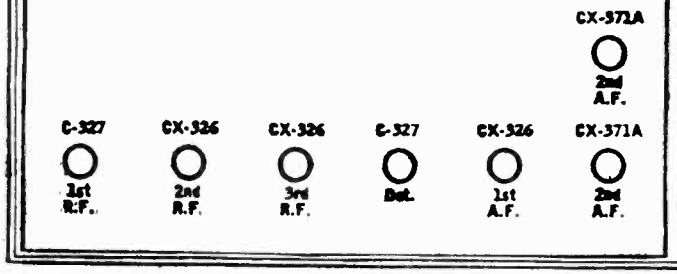


Model Royal (97)

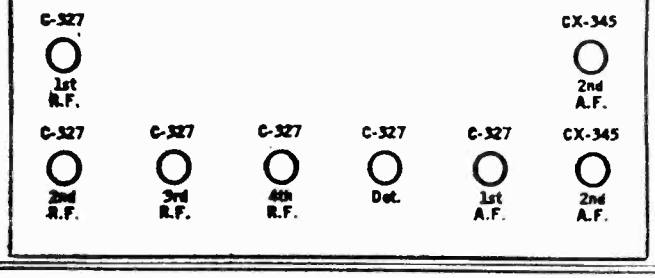


Model Imperial (98)

97 (A.C.)

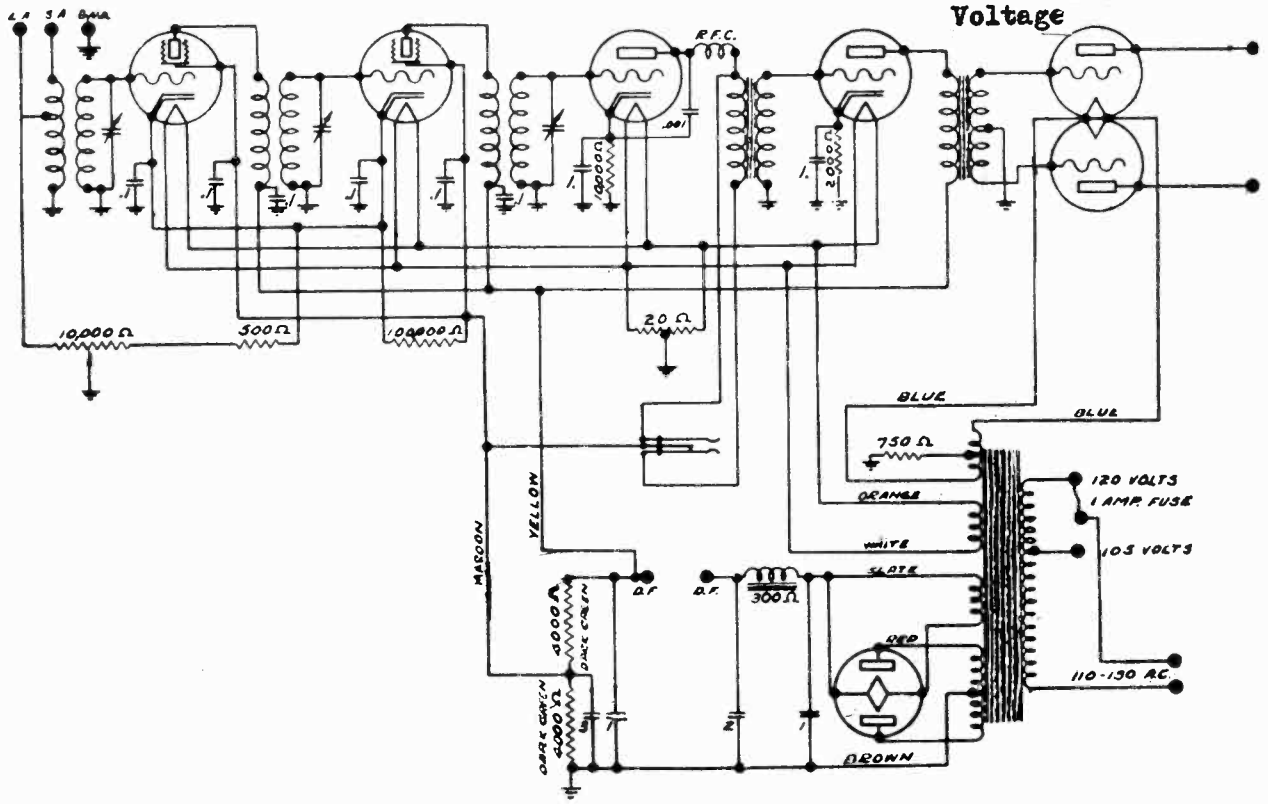


98 (A.C.)



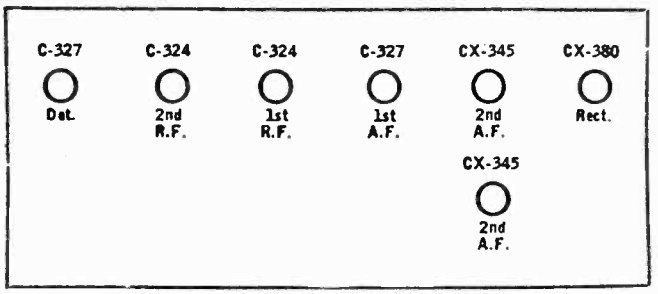
KING MFG. CORP.

MODEL Monarch (101)
Schematic - Voltage
MODEL Royal (97)
Voltage



MONARCH Model 101.					
Tube	Stage	Fil. V.	Plate V.	Screen. Grid V.	Control Grid V.
'24	1 R.F.	2.5	180	85	3.5
'24	2 R.F.	2.5	180	85	3.5
'27	Det.	2.5	90	-----	10.
'27	1 A.F.	2.5	170	-----	13.
'45	2 A.F.	2.5	220	-----	50.
'45	2 A.F.	2.5	220	-----	50.

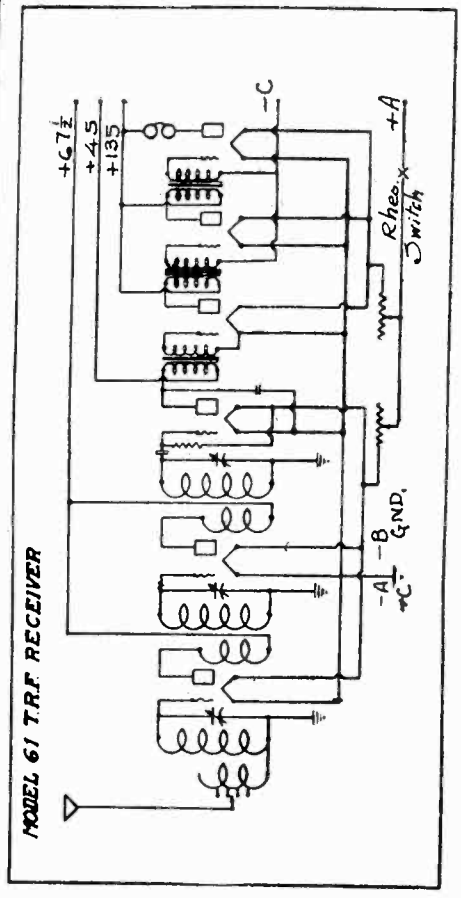
101 (A.C.)

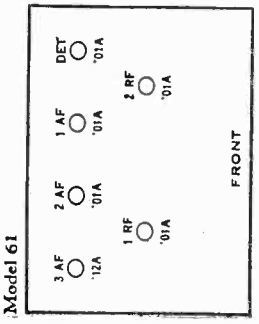


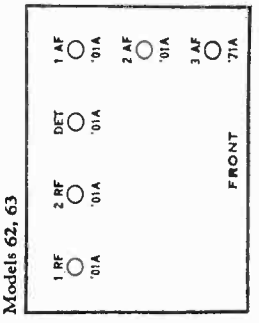
Model 97 Line: 105 Volts.					
Tube	Stage	Fil.V.	Plate V.	Grid V.	Cath.V.
'27	1 R.F.	2.4	136	11.	-----
'26	2 R.F.	1.6	136	10	
'26	3 R.F.	1.6	136	10	
'27	Det.	2.4	52	----	------
'26	1 A.F.	1.6	127	8.	
'71	2 A.F.	5.1	184	36	
'71	2 A.F.	5.1	184	36	

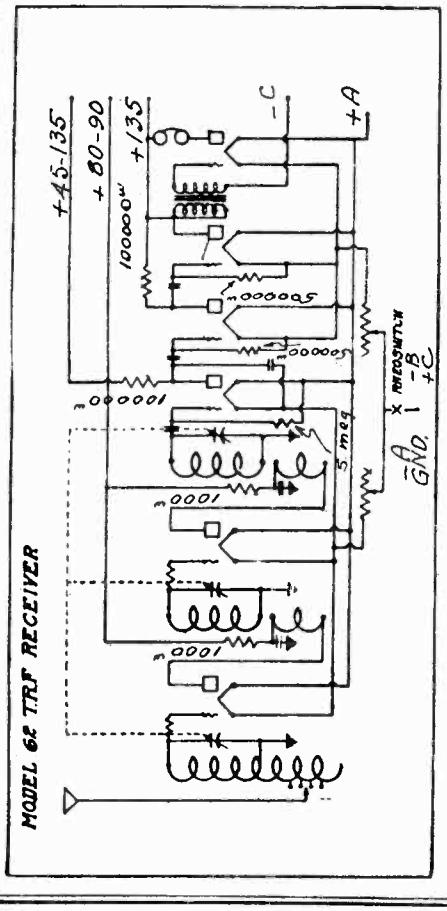
MODEL 61
MODEL 62,63
MODEL 71

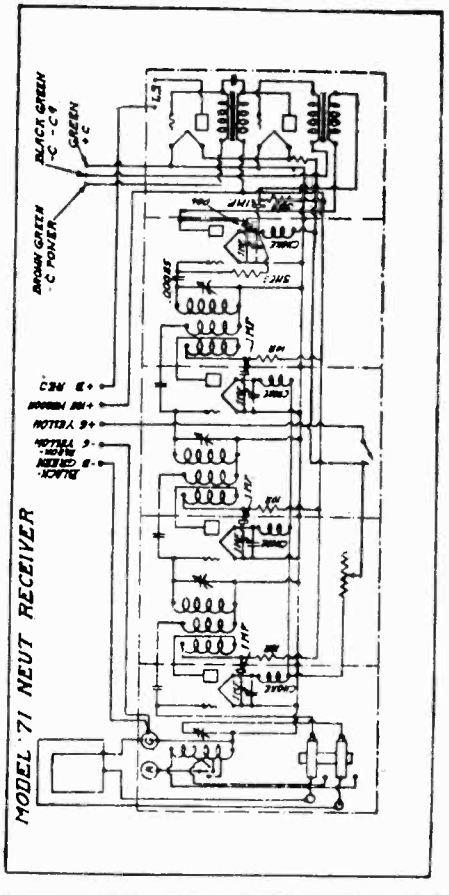
KING MFG. CORP.

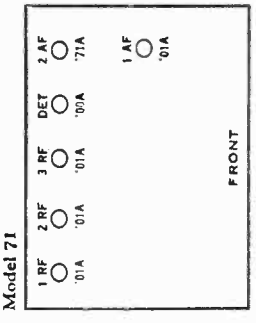


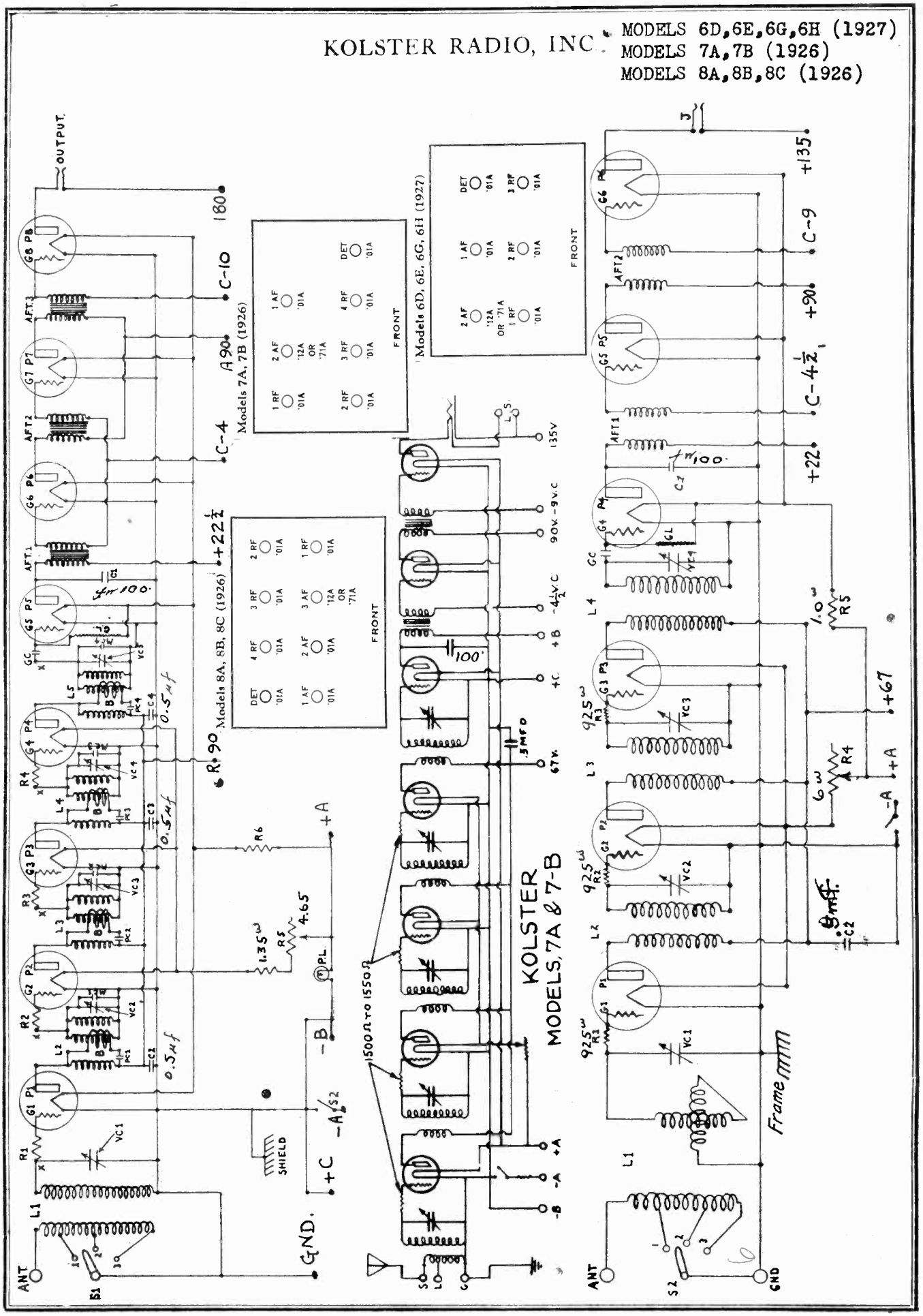






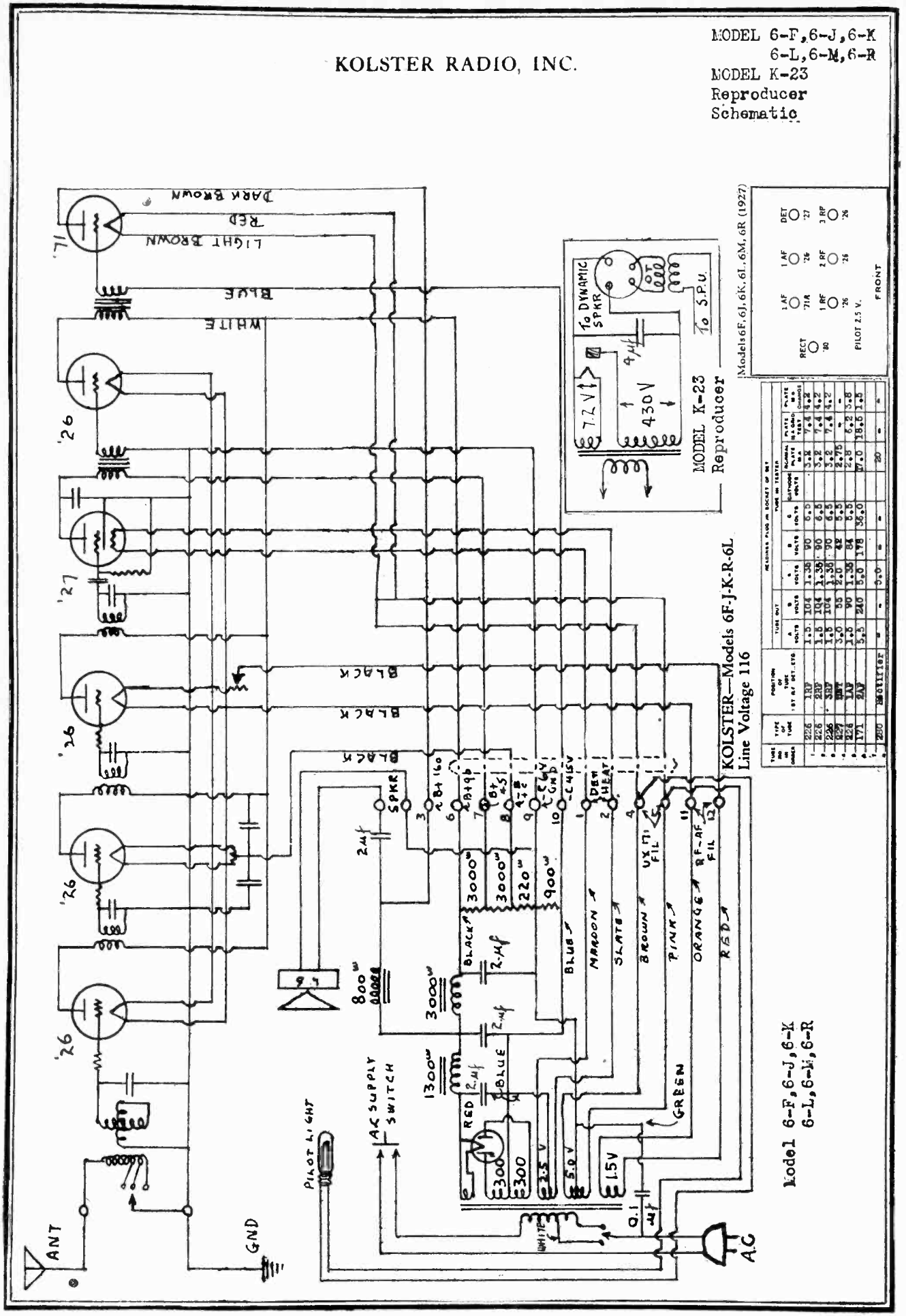






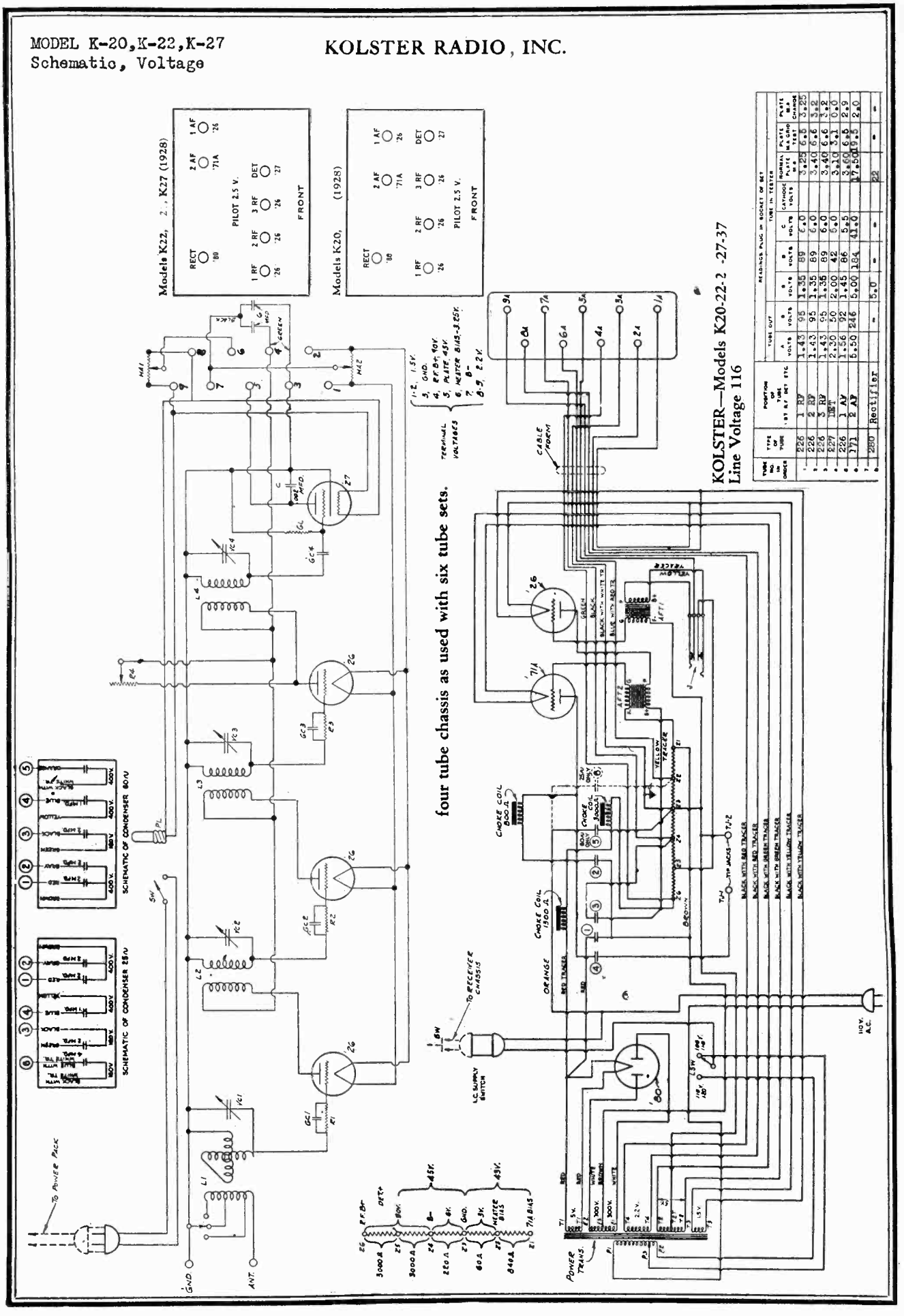
KOLSTER RADIO, INC.

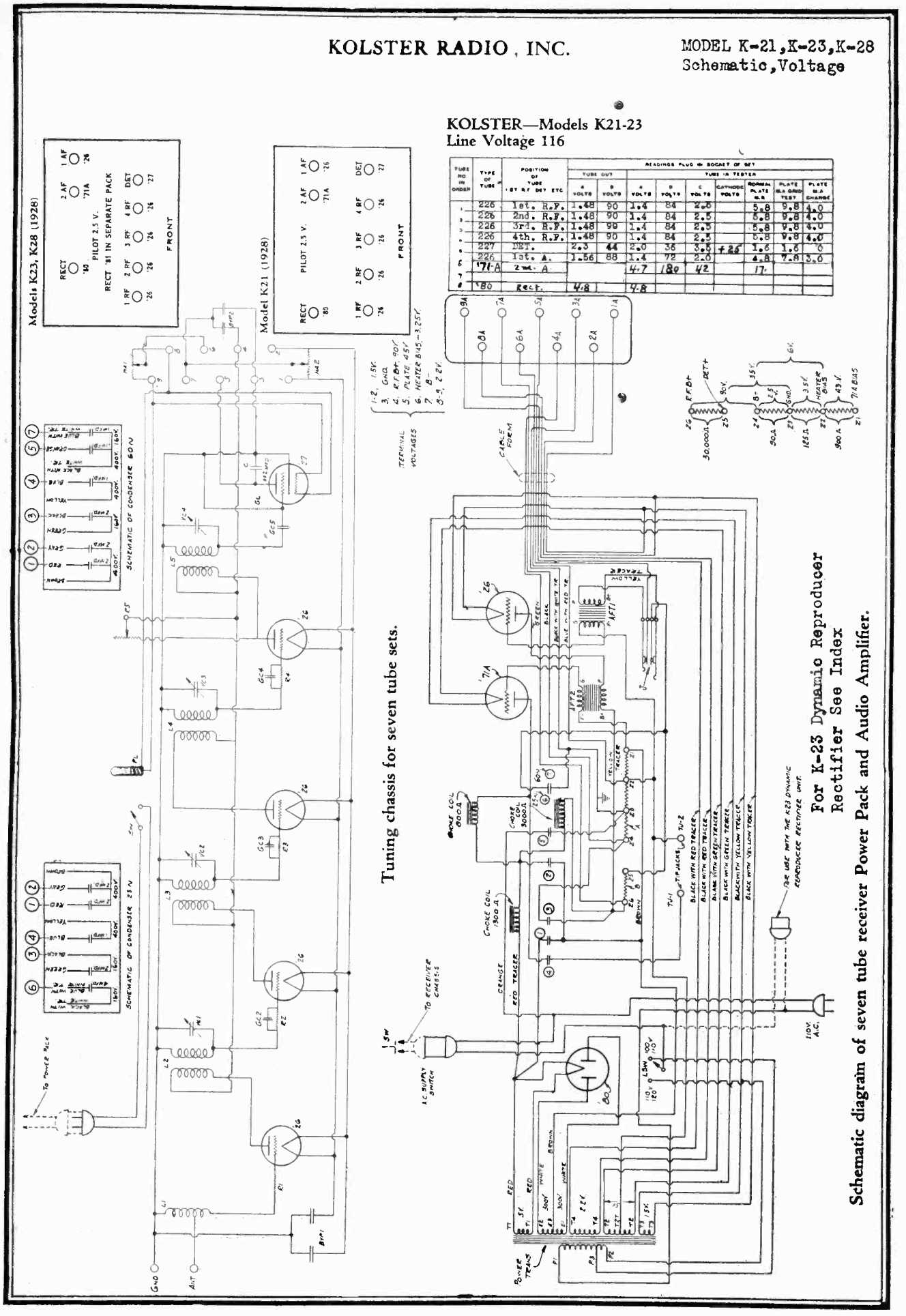
MODEL 6-F,6-J,6-K
6-L,6-M,6-R
MODEL K-23
Reproducer
Schematic



MODEL K-20, K-22, K-27
Schematic, Voltage

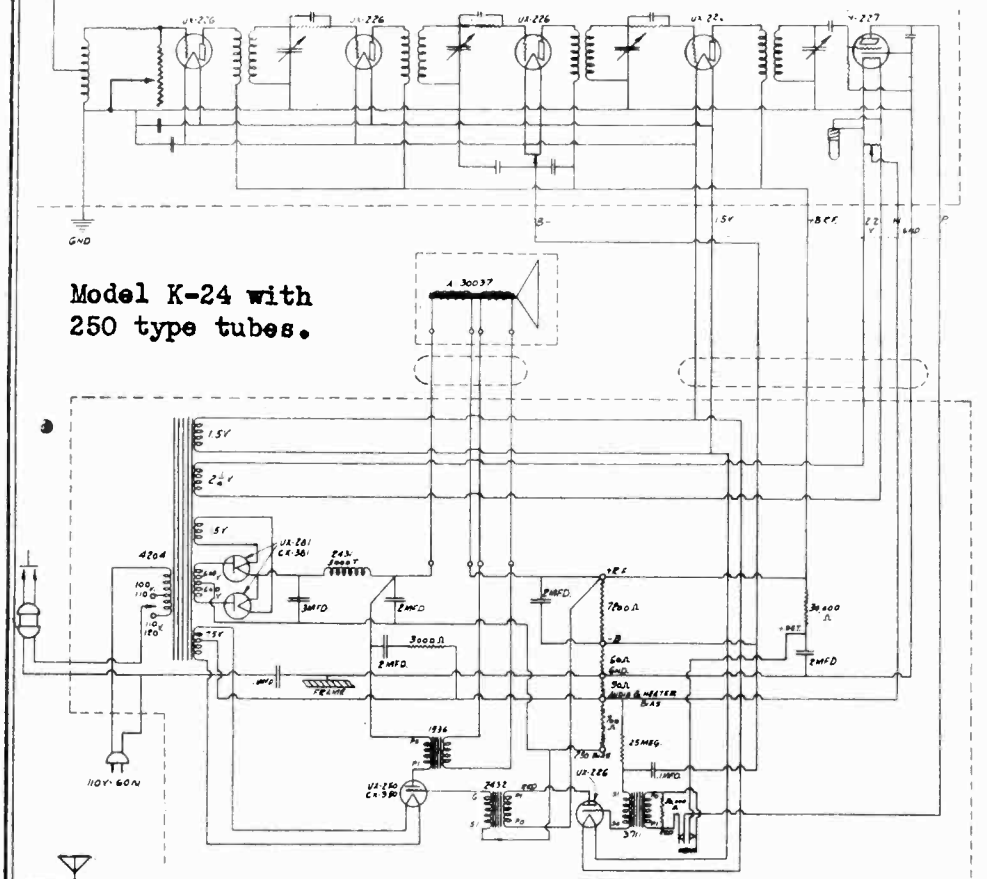
KOLSTER RADIO, INC.

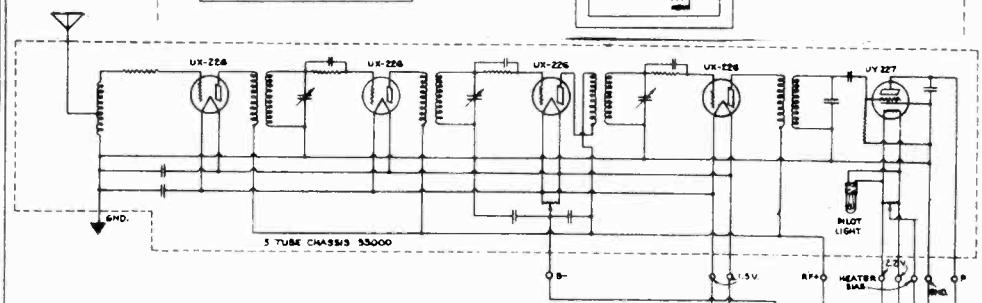


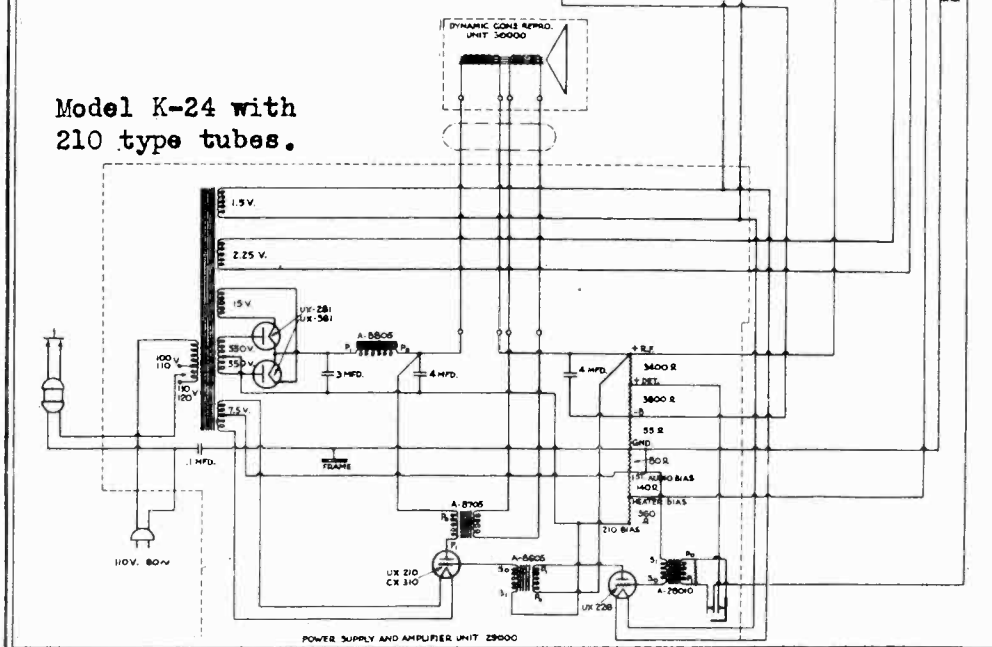


MODEL K-24(250)
MODEL K-24(210)
Schematic, Voltage

KOLSTER RADIO, INC.







Line Voltage 116

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE (1ST AF DET ETC)	TUBE OUT A VOLTS	TUBE OUT B VOLTS	NEUTRODYNE PLUG IN SOCKET OF SET TUBE IN TESTER A VOLTS	NEUTRODYNE PLUG IN SOCKET OF SET TUBE IN TESTER B VOLTS	NEUTRODYNE PLUG IN SOCKET OF SET TUBE IN TESTER C VOLTS	NORMAL PLATE MA.	PLATE MA. RADIO TEST CHANGE
1	226	1st. R.F.	1.48	90	1.4	84	2.5	5.8	9.8 4.0
2	226	2nd. R.F.	1.48	90	1.4	84	2.5	5.8	9.8 4.0
3	226	3rd. R.F.	1.48	90	1.4	84	2.5	5.8	9.8 4.0
4	226	4th. R.F.	1.48	90	1.4	84	2.5	5.8	9.8 4.0
5	227	DET.	2.3	44	2.0	36	3.5	1.6	1.6 0
6	226	1st. A.	1.56	88	1.4	72	2.0	4.8	7.8 3.0
7	210	2nd. A.	7.9	512	7.4	430	32.5	24.	28. 4.0
8									
9	281	Rect.	-	-	7.0	-	-	28.0	- -
10	281	Rect.	-	-	7.4	-	-	28.0	- -

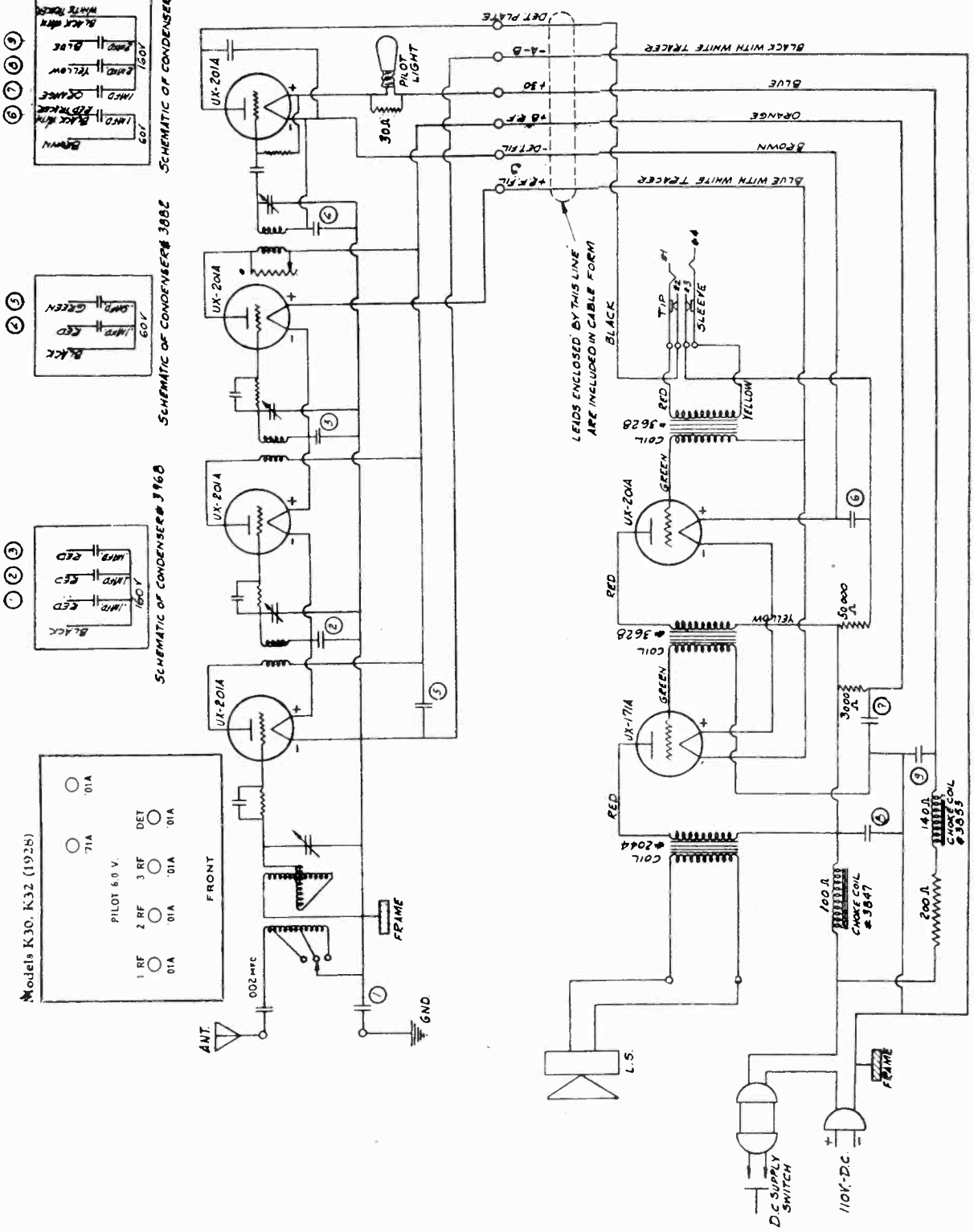
RECT RECT 2 AF 1 AF
'81 '81 '10* '26
RECTIFIER, POWER AMPLIFIER
*SOME TYPES USE '50 IN 2 AF.
FRONT

Model K24 (1928)

PILOT 2.5 V.
RECEIVER
1 RF '26 2 RF '26 3 RF '26 4 RF '26 DET '27
FRONT

MODELS K-30, K-32 (1928)

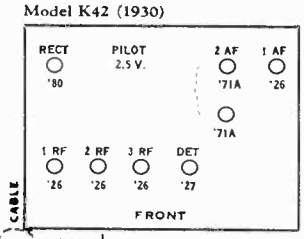
KOLSTER RADIO, INC.



MODEL K-42
Schematic
Voltage

KOLSTER RADIO, INC.

Model K42 (1930)

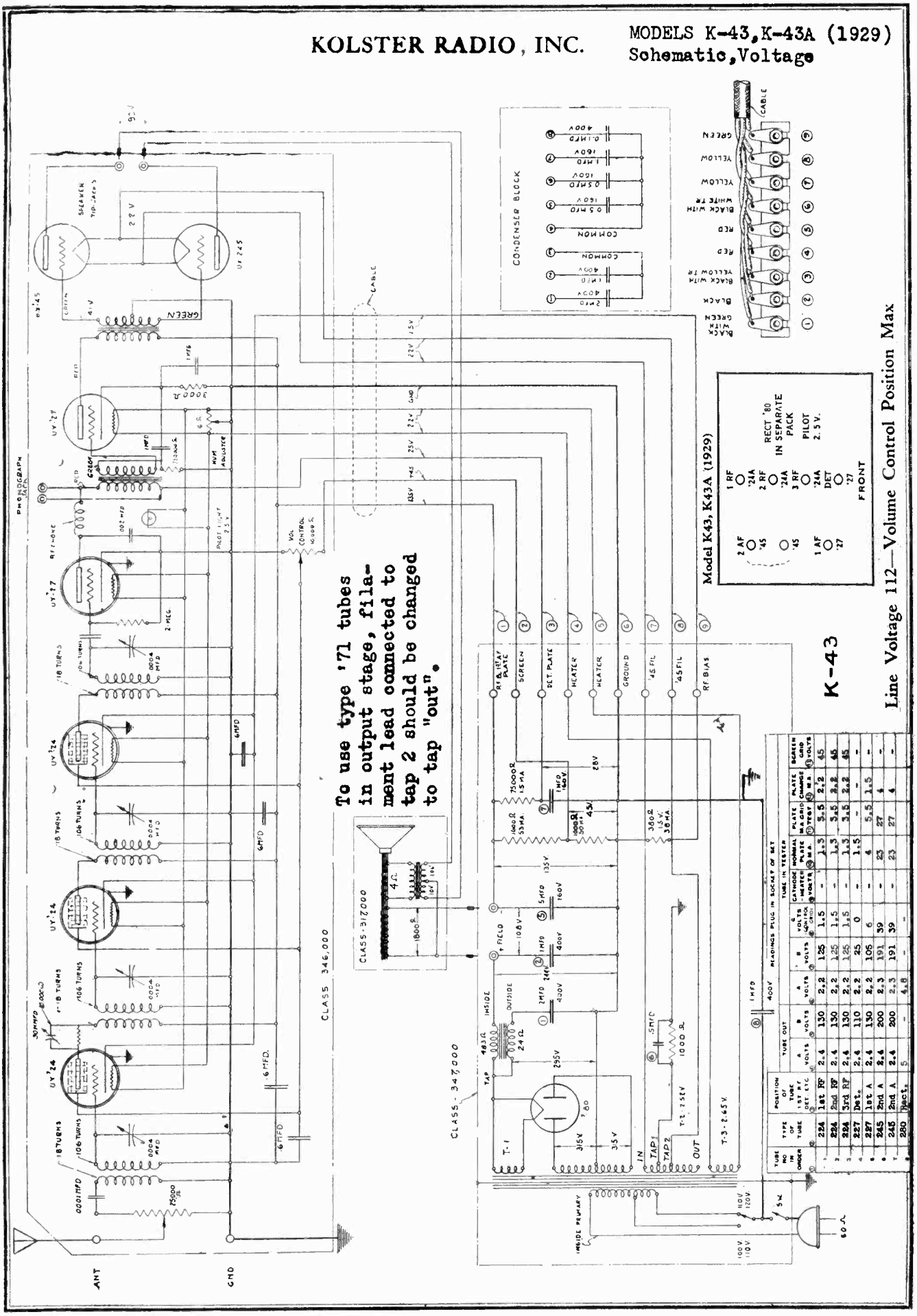


KOLSTER—Model 42
Line Voltage 112—Volume Control Position Max
***Grid Leak Shorted**

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE	READINGS, PLUG IN SOCKET OF SET: TUBE OUT A VOLTS	TUBE OUT B VOLTS	TUBE IN TESTER A VOLTS	TUBE IN TESTER B VOLTS	C VOLTS (CONTROL GRID)	CATHODE-HEATER VOLTS	NORMAL PLATE M.A.	PLATE M.A. GRID 1 TEST	PLATE CHANGE M.A.
1	226	1st RF	1.5	90	1.3	83	6.5	-	2	4.4	2.2
2	226	2nd RF	1.5	90	1.3	83	6.5	-	2	4.4	2.2
3	226	3rd RF	1.5	90	1.3	83	6.5	-	2	4.4	2.2
4	227	Det.	2.25	80	2.1	24	-	-	1.2	1.6	.2
5	226	1st AF	1.5	92	1.3	82	6	-	2.6	5.4	3.3
6	171A	2nd AF	5	170	4.8	150	29	-	17.0	20	3
7	171A	2nd AF	5	170	4.8	150	29	-	17.0	20	3
8	280	Rect.	5	-	4.8	-	-	-	84	-	-

KOLSTER RADIO, INC.

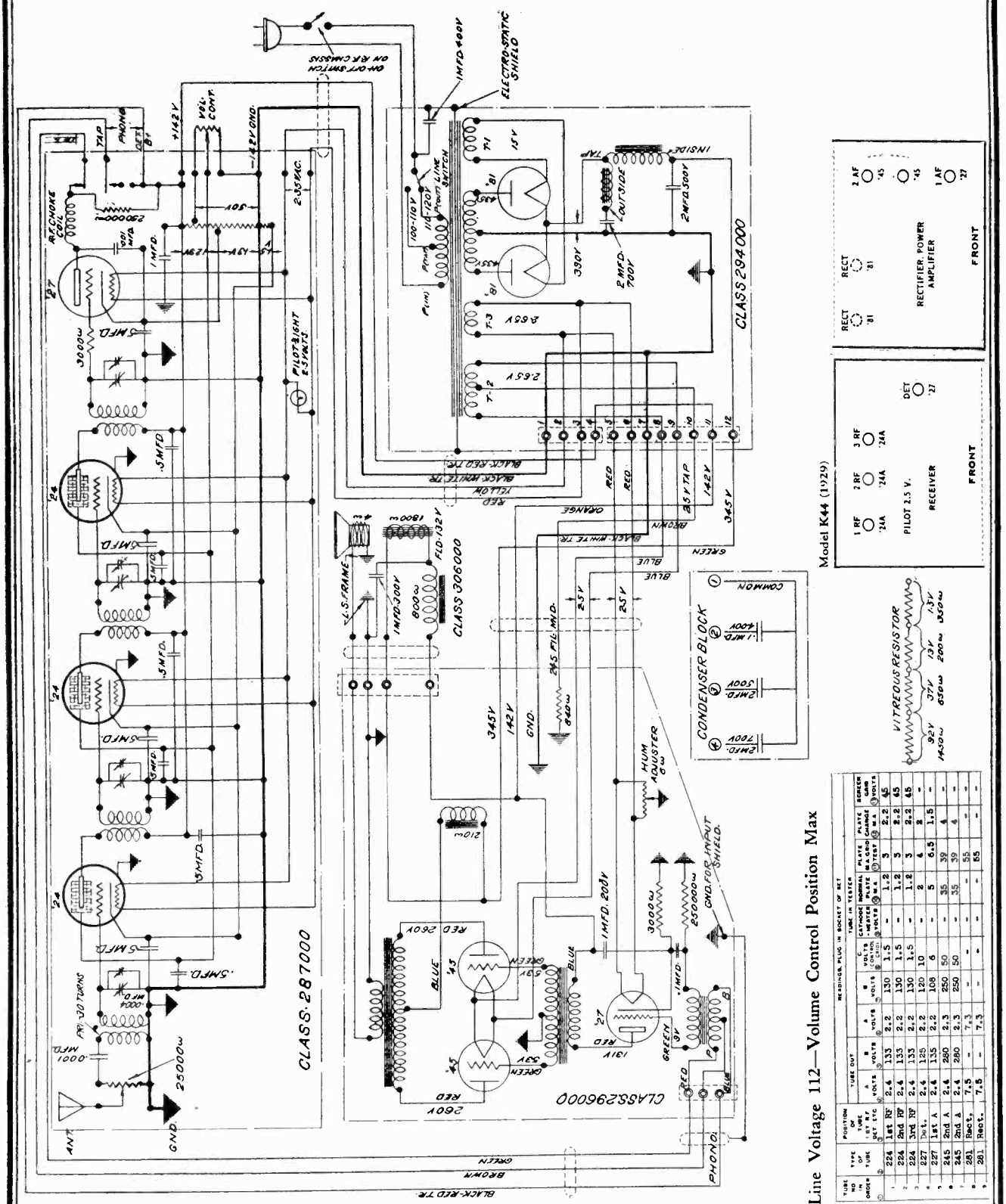
MODELS K-43, K-43A (1929)
Schematic, Voltage



TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE	TUBE OUT A VOLTS	TUBE OUT B VOLTS	TUBE IN TESTER A VOLTS	TUBE IN TESTER B VOLTS	TUBE IN TESTER G. CONTROL VOLTS	TUBE IN TESTER CATHODE VOLTS	TUBE IN TESTER NORMAL PLATE MA.	PLATE MA. GRID CHANGE TEST	PLATE MA. GRID CHANGE MA.	SCREEN GRID VOLTS
1	224	1st RF	2.4	130	2.2	125	1.5	-	1.3	5.5	2.2	45
2	224	2nd RF	2.4	130	2.2	125	1.5	-	1.3	5.5	2.2	45
3	224	3rd RF	2.4	130	2.2	125	1.5	-	1.3	5.5	2.2	45
4	227	Det.	2.4	110	2.2	25	0	-	1.5	-	-	-
5	227	1st A	2.4	130	2.2	105	6	-	4	5.5	1.5	-
6	245	2nd A	2.4	200	2.3	191	39	-	25	27	4	-
7	245	2nd A	2.4	200	2.3	191	39	-	25	27	4	-
8	280	Rect.	5	-	4.8	-	-	-	-	-	-	-

MODEL K-44 (1929)
Schematic
Voltage

KOLSTER RADIO, INC.

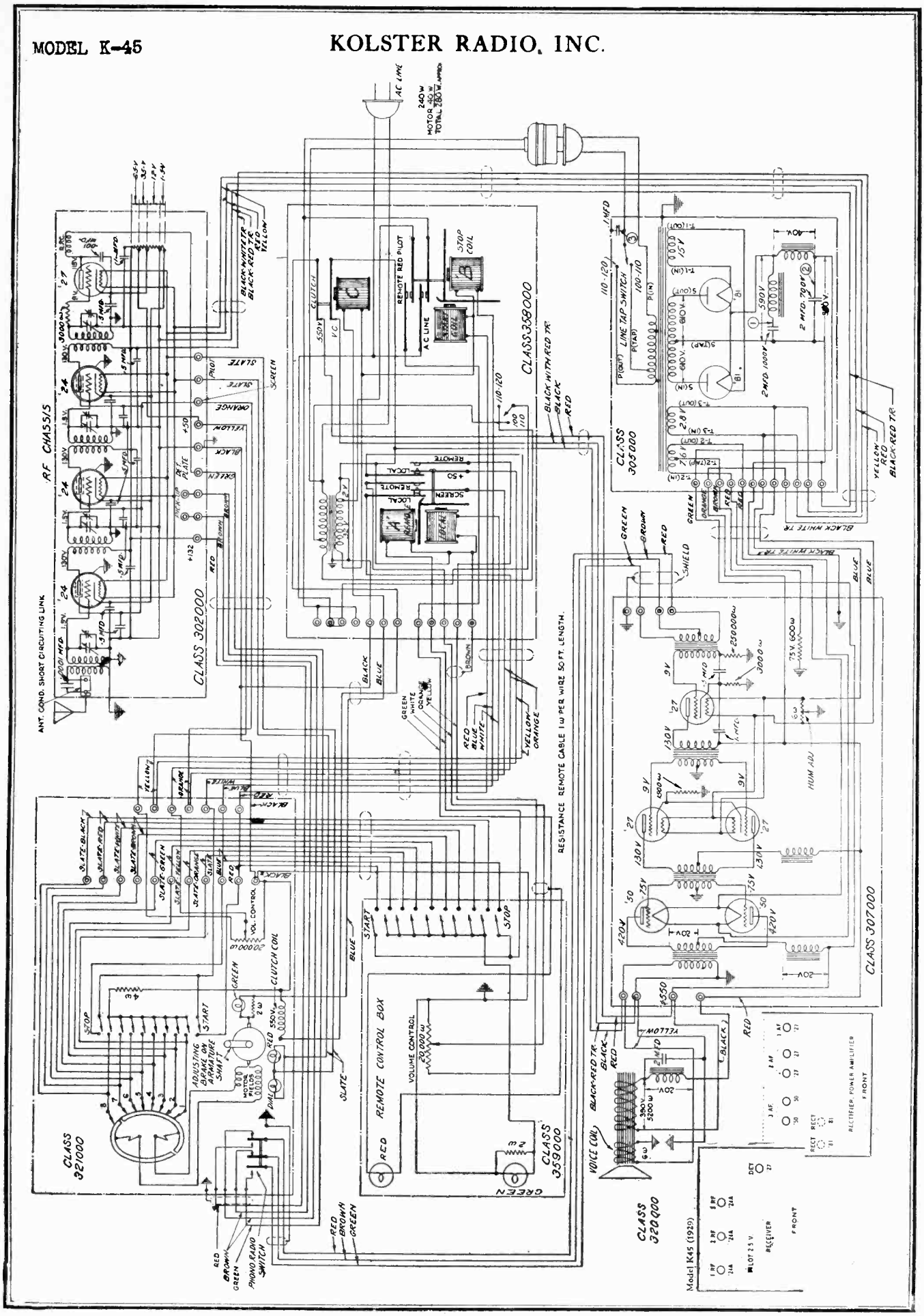


Line Voltage 112—Volume Control Position Max

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TYPE DET. ETC.	TUBE OUT A VOLTS	TUBE OUT B VOLTS	READINGS PLUG IN SOCKET OF SET A VOLTS	READINGS PLUG IN SOCKET OF SET B VOLTS	READINGS PLUG IN SOCKET OF SET VOL'S CONTROL GRID	TUBE IN TESTER CATHODE RESIST. OHMS	TUBE IN TESTER PLATE CURRENT M.A.	TUBE IN TESTER PLATE CHARGE VOLTS	SCREEN GRID VOLTS
1	224	1st RF	2.4	133	2.2	130	1.5	-	1.2	3	45
2	224	2nd RF	2.4	133	2.2	130	1.5	-	1.2	3	45
3	224	3rd RF	2.4	133	2.2	130	1.5	-	1.2	3	45
4	227	Det.	2.4	125	2.2	120	10	-	2	4	-
5	227	1st A	2.4	135	2.2	108	6	-	5	6.5	1.5
6	245	2nd A	2.4	280	2.3	250	50	-	35	39	4
7	245	2nd A	2.4	280	2.3	250	50	-	35	39	4
8	281	Rect.	7.5	-	7.3	-	-	-	-	55	-
9	281	Rect.	7.5	-	7.3	-	-	-	-	55	-

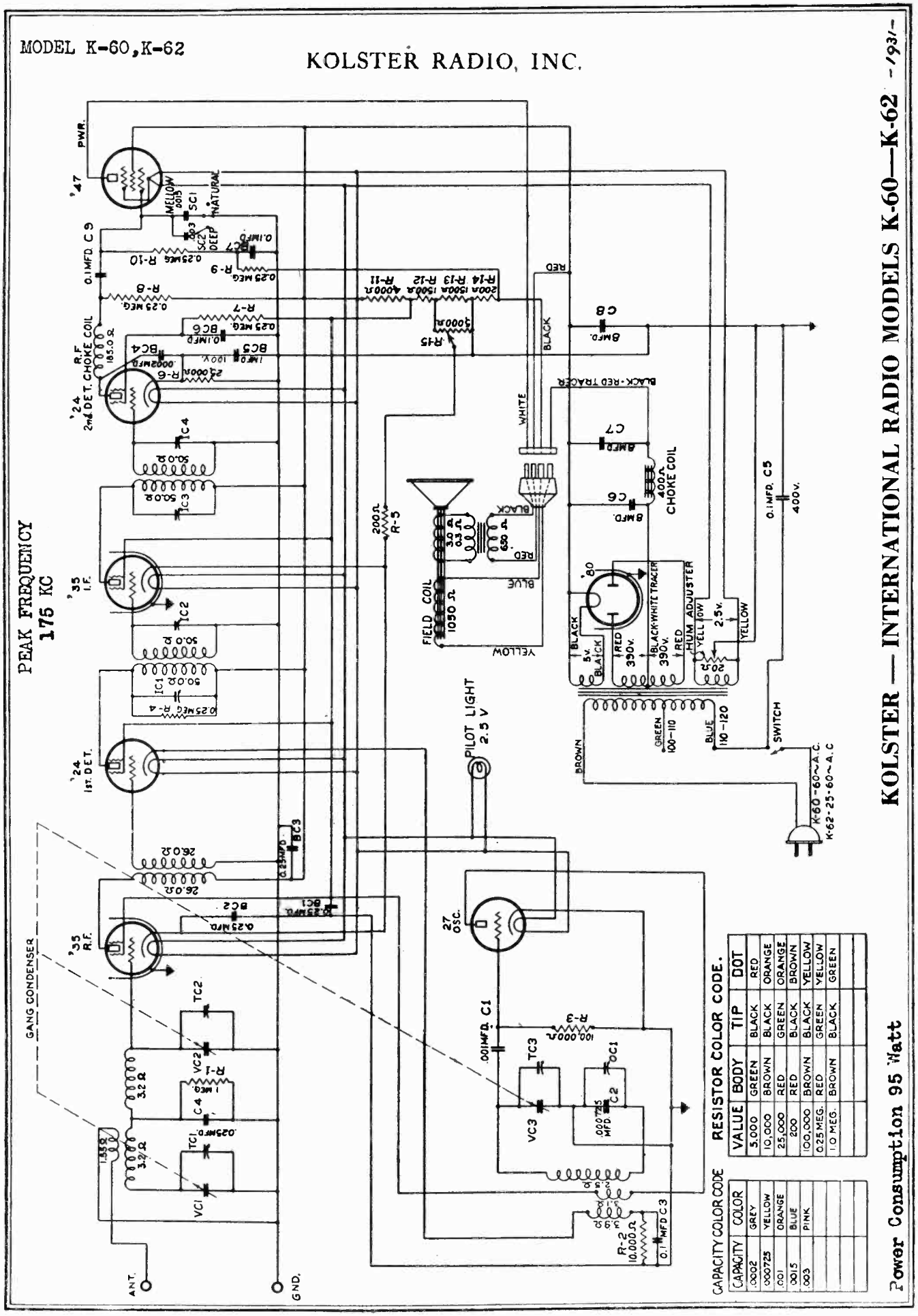
MODEL K-45

KOLSTER RADIO, INC.



MODEL K-60, K-62

KOLSTER RADIO, INC.



KOLSTER — INTERNATIONAL RADIO MODELS K-60—K-62 -1931-

Power Consumption 95 Watt

RESISTOR COLOR CODE.

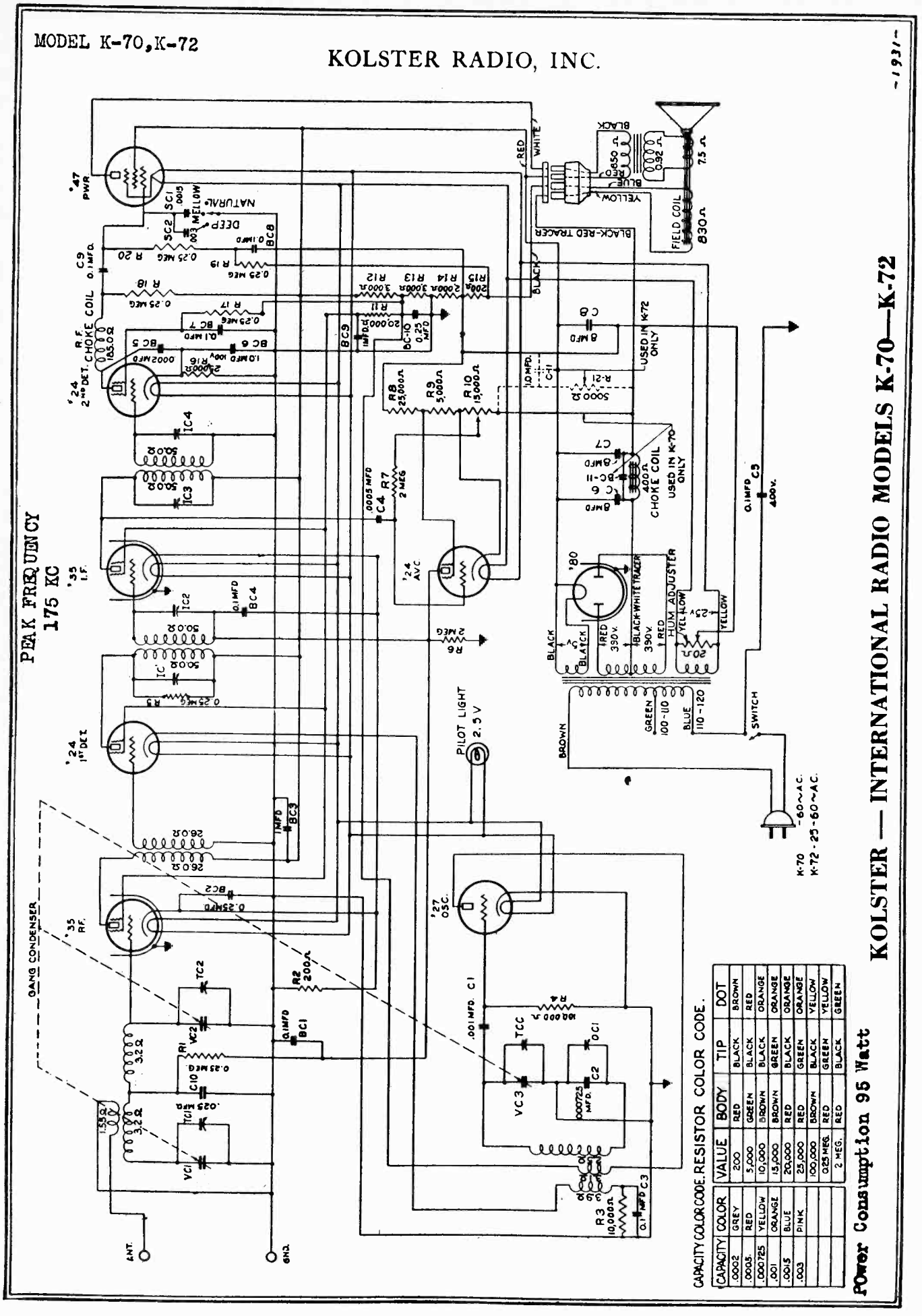
VALUE	BODY	TIP	DOT
5,000	GREEN	BLACK	RED
10,000	BROWN	BLACK	ORANGE
25,000	RED	GREEN	ORANGE
200	RED	BLACK	BROWN
100,000	BROWN	BLACK	YELLOW
0.25 MEG.	RED	GREEN	YELLOW
1.0 MEG.	BROWN	BLACK	GREEN

CAPACITY COLOR CODE

CAPACITY	COLOR
.0002	GREY
.000725	YELLOW
.001	ORANGE
.0015	BLUE
.003	PINK

MODEL K-70, K-72

KOLSTER RADIO, INC.



CAPACITY COLOR CODE.

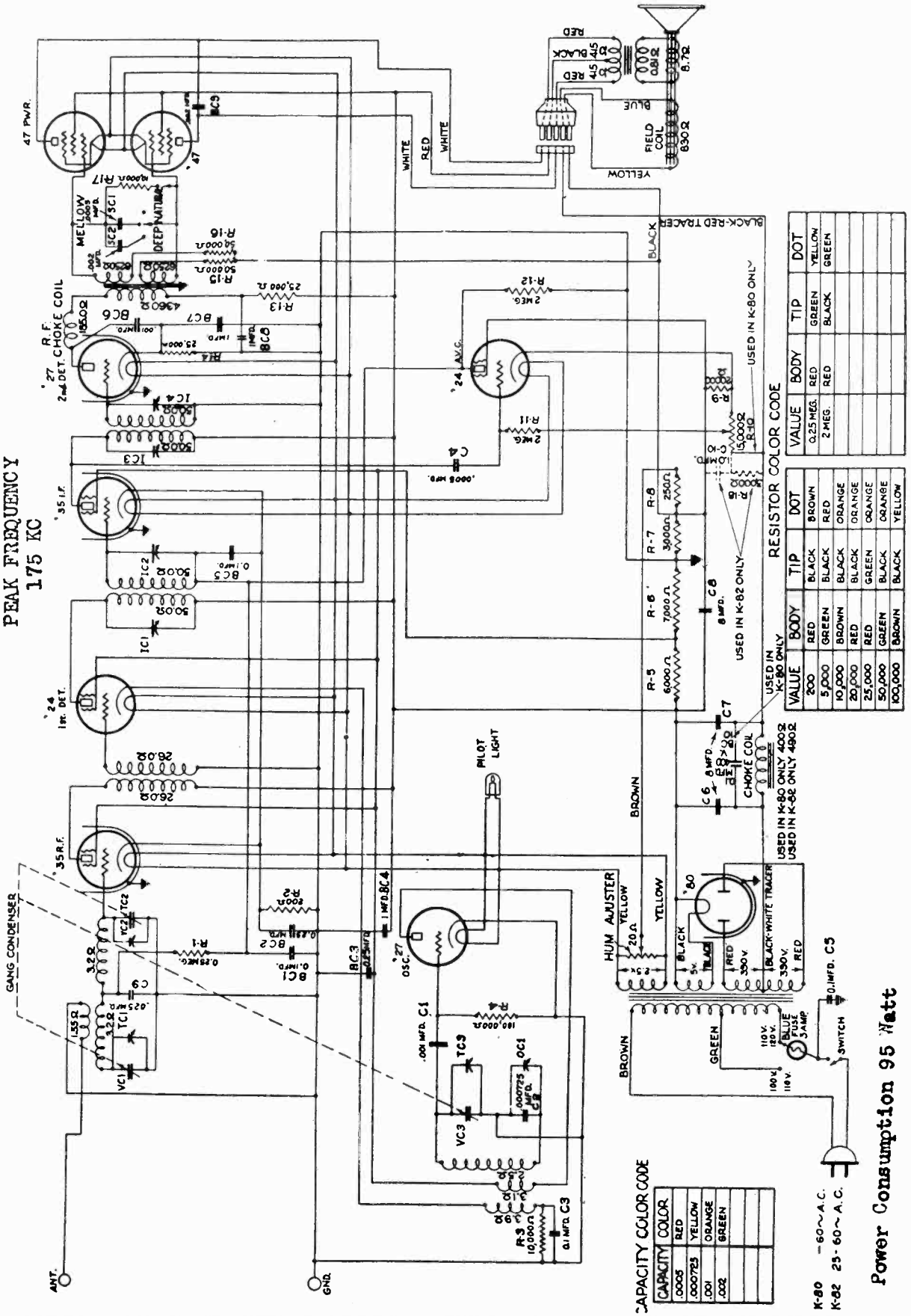
CAPACITY	COLOR
.0002	GREY
.0005	RED
.000725	YELLOW
.001	ORANGE
.0015	BLUE
.003	PINK

RESISTOR COLOR CODE.

VALUE	BODY	TIP	DOT
200	RED	BLACK	BROWN
5,000	GREEN	BLACK	RED
10,000	BROWN	BLACK	ORANGE
15,000	BROWN	GREEN	ORANGE
20,000	RED	BLACK	ORANGE
25,000	RED	GREEN	ORANGE
100,000	BROWN	BLACK	YELLOW
0.25 MEG.	RED	GREEN	YELLOW
2 MEG.	RED	BLACK	GREEN

MODEL K-80, K-82

KOLSTER RADIO, INC.



VALUE	BODY	TIP	DOT
200	RED	BLACK	BROWN
5,000	GREEN	BLACK	RED
10,000	BROWN	BLACK	ORANGE
20,000	RED	BLACK	ORANGE
25,000	RED	GREEN	ORANGE
50,000	GREEN	BLACK	ORANGE
100,000	BROWN	BLACK	YELLOW

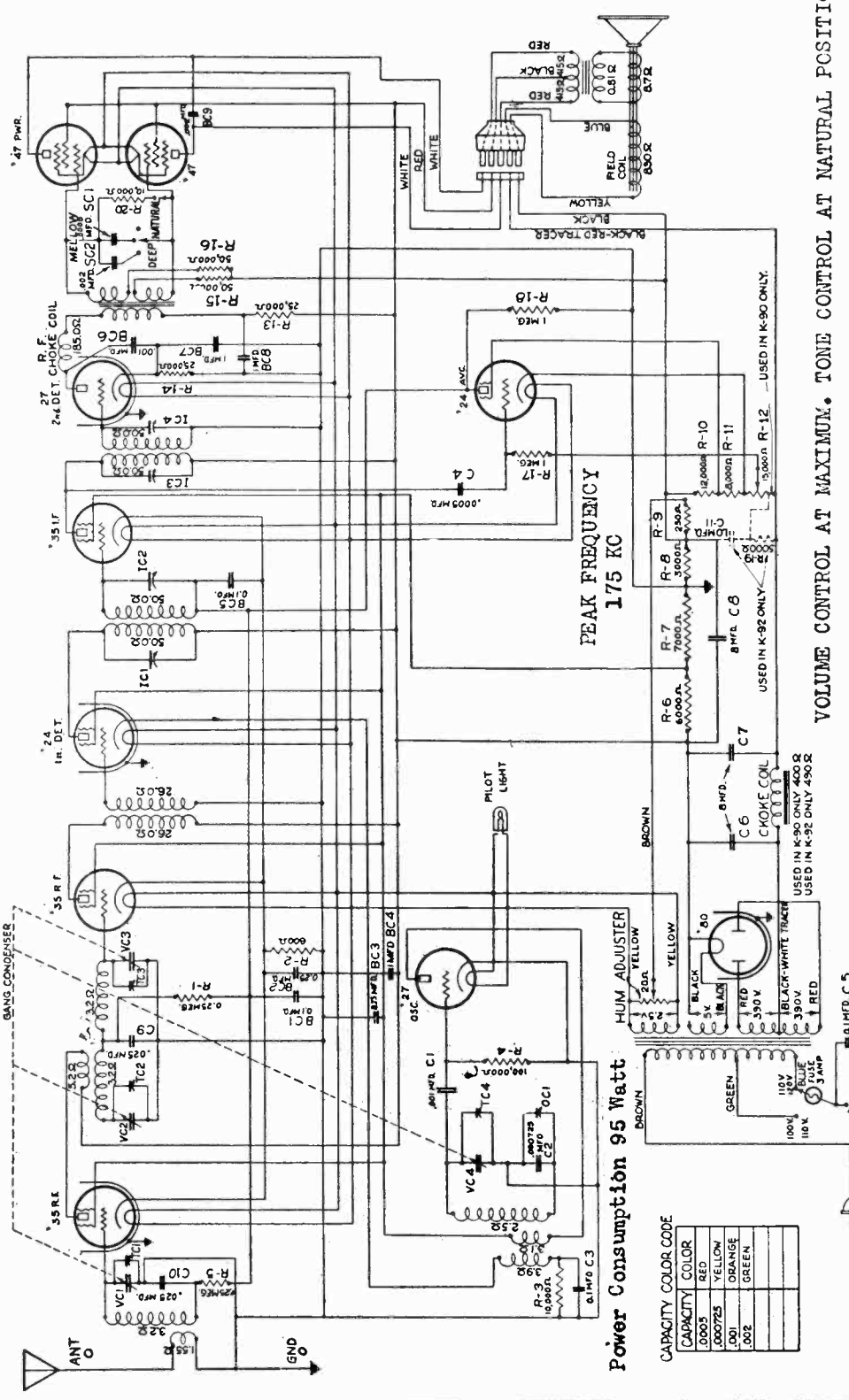
VALUE	BODY	TIP	DOT
0.25 MEG.	RED	GREEN	YELLOW
2 MEG.	RED	BLACK	GREEN

CAPACITY	COLOR
.0005	RED
.000725	YELLOW
.001	ORANGE
.002	GREEN

KOLSTER — INTERNATIONAL RADIO MODELS K-80—K-82 ~1931~

MODEL K-90, K-92
Schematic
Voltage

KOLSTER RADIO, INC.



VOLUME CONTROL AT MAXIMUM. TONE CONTROL AT NATURAL POSITION.

TUBE	CGV	SGV	KV	PV	P.MA.
RF	-0.2	75	68	176	3
Osc.	0	-	62	73	5.5
1st.Det.	-5.6	72	68	176	.52
IF	-0.4	75	68	177	2.6
2nd.Det.	-15	-	76	145	.65
AVC	-0.5	44	-58	67	0
Pwer.	-12	250	-	228	28
Rect.	-	-	-	-	47

CAPACITY COLOR CODE

CAPACITY	COLOR
.0005	RED
.00075	YELLOW
.001	ORANGE
.002	GREEN

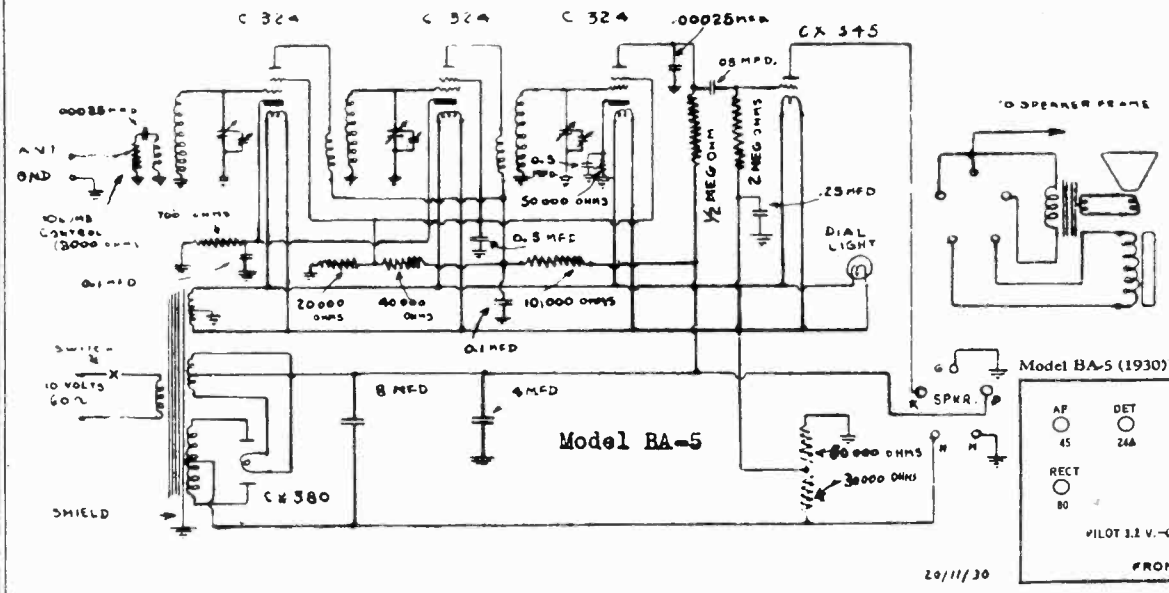
RESISTOR COLOR CODE

VALUE	BODY	TIP	DOT
600	BLUE	BLACK	BROWN
8,000	GRAY	BLACK	RED
10,000	BROWN	BLACK	ORANGE
12,000	BROWN	RED	ORANGE
25,000	RED	GREEN	ORANGE
30,000	GREEN	BLACK	ORANGE
100,000	BROWN	BLACK	YELLOW

VALUE	BODY	TIP	DOT
.025 MEG.	RED	GREEN	YELLOW
1 MEG.	BROWN	BLACK	GREEN
5000	GREEN	BLACK	RED

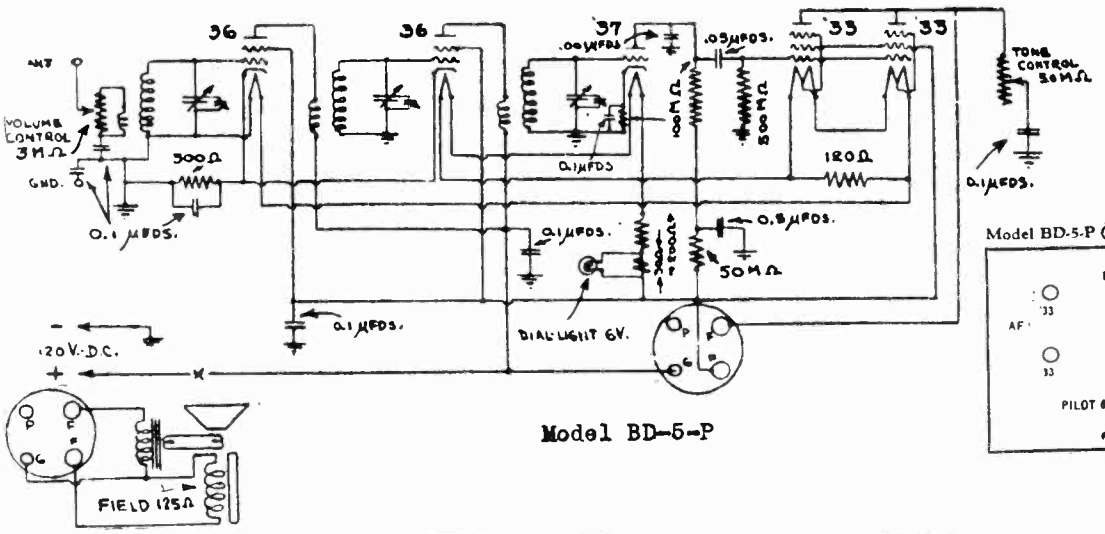
LANG RADIO CC

MODEL BA-5
MODEL BD-5-P
MODEL BD-6



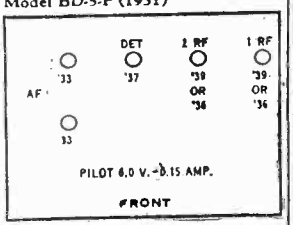
Model BA-5

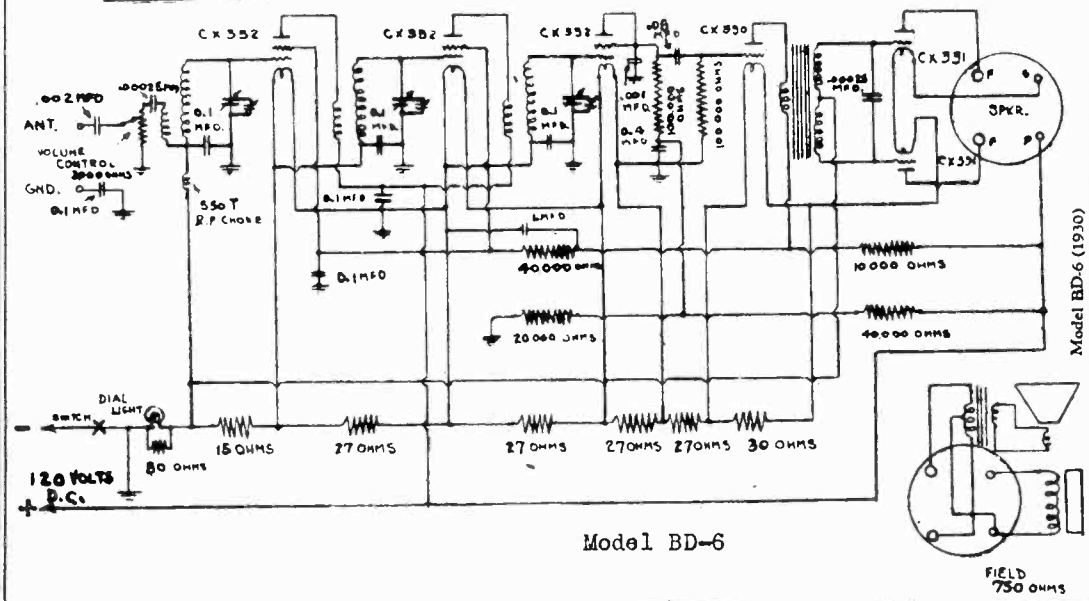
Model BA-5 (1930)



Model BD-5-P

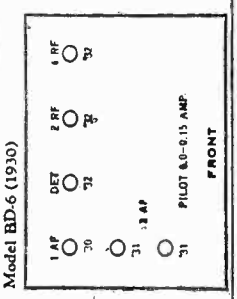
Model BD-5-P (1931)





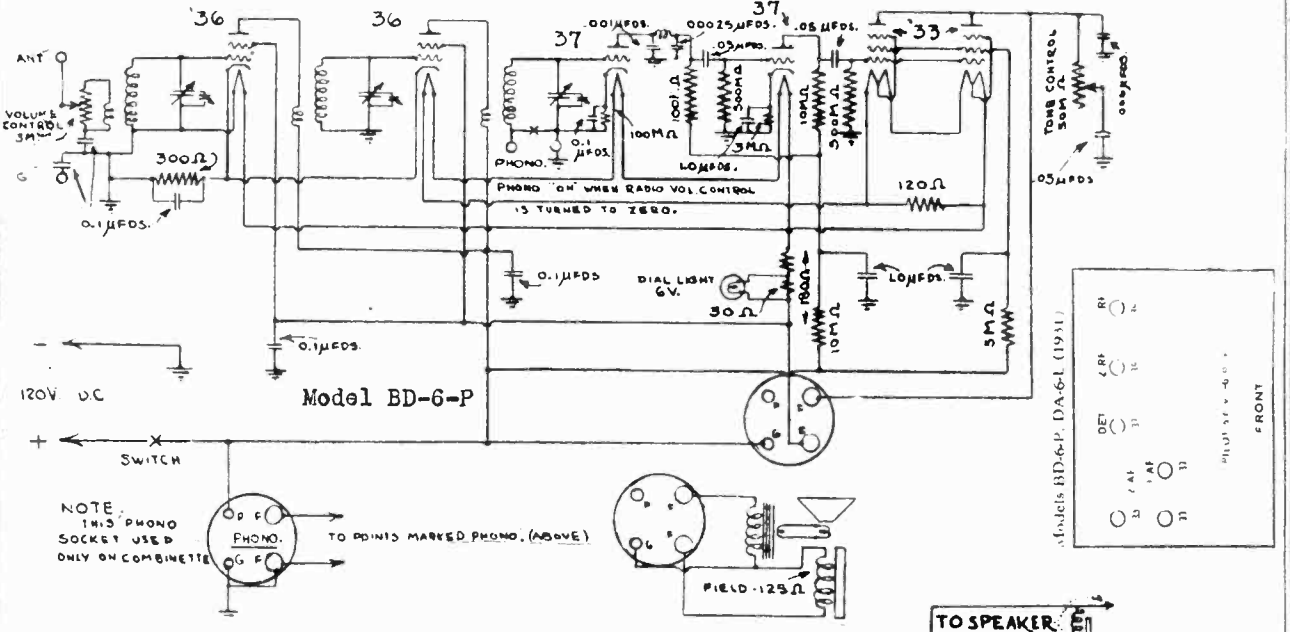
Model BD-6

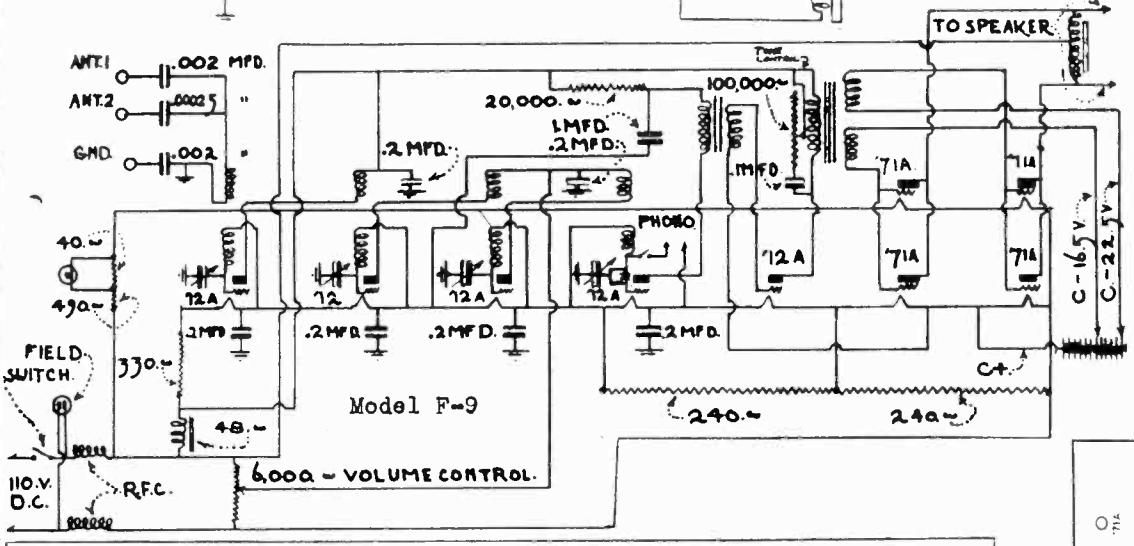
Model BD-6 (1930)

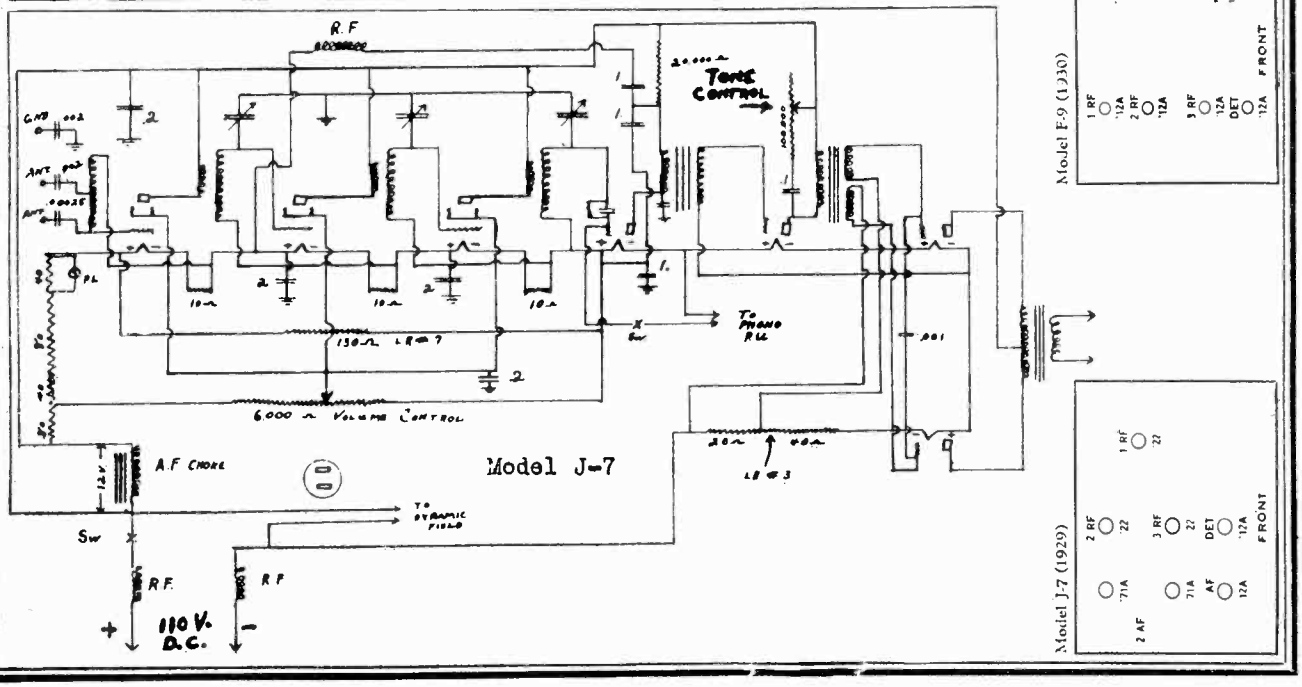


MODEL BD-6-P
MODEL F-9
MODEL J-7

LANG RADIO CO

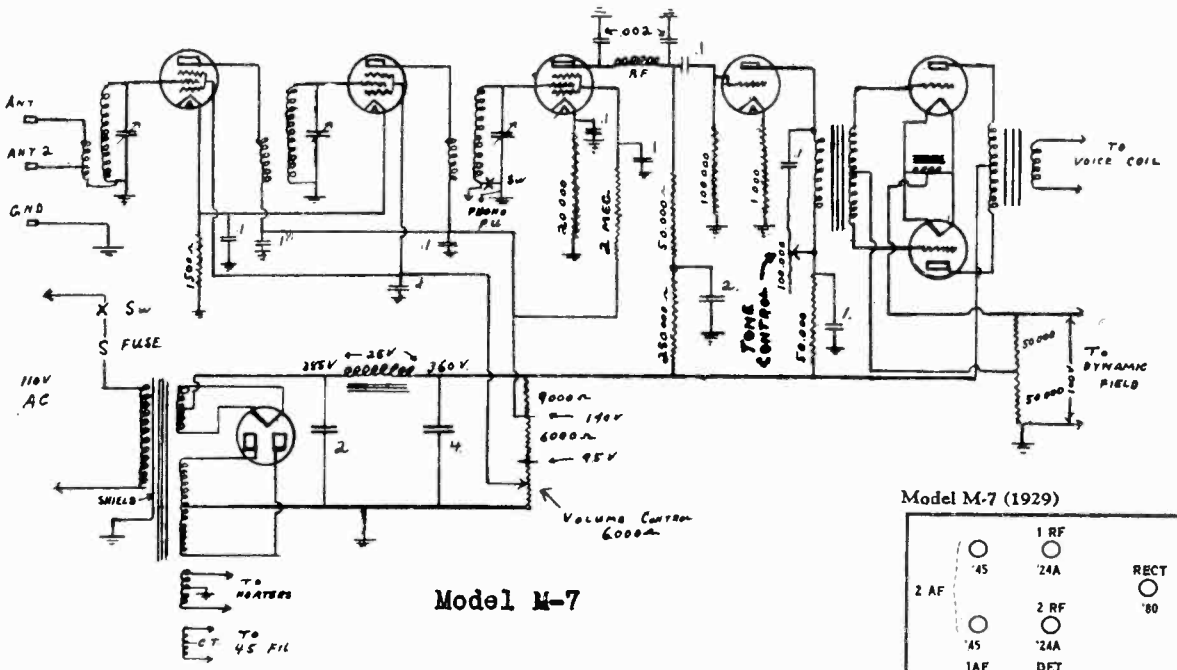






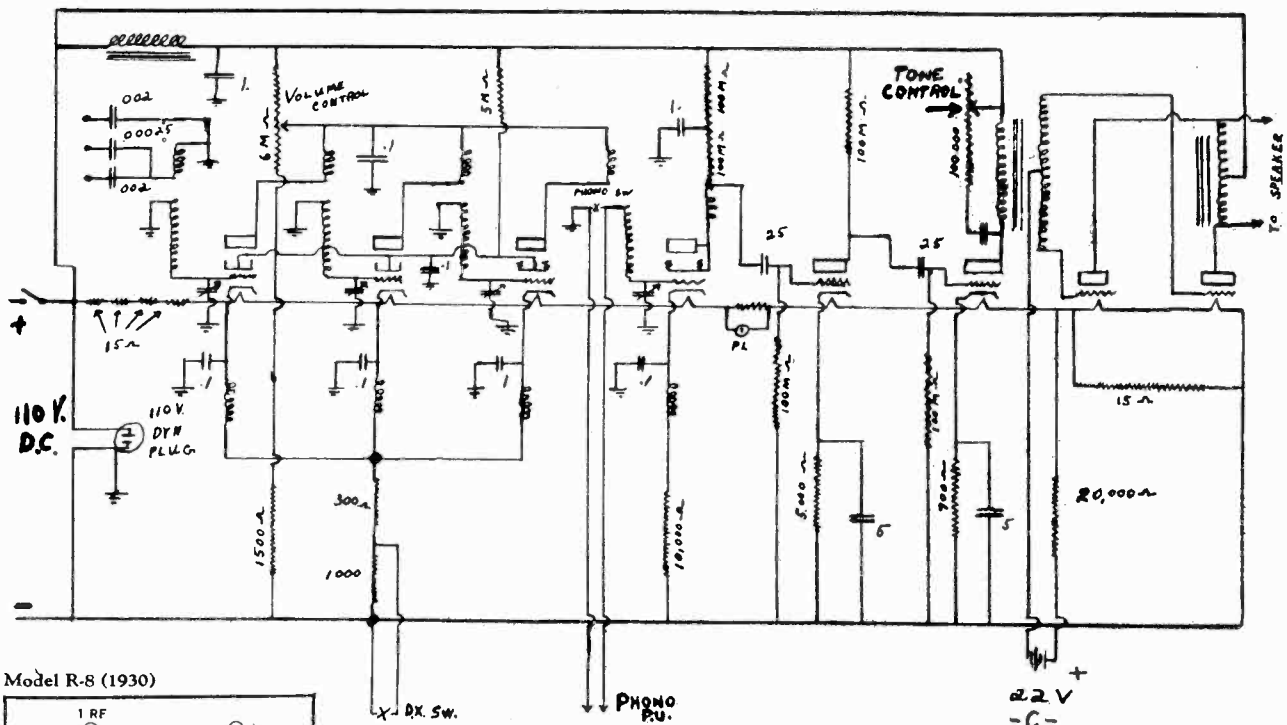
LANG RADIO CO.

MODEL M-7
MODEL R-8



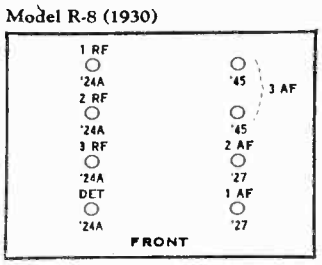
Model M-7

Model M-7 (1929)



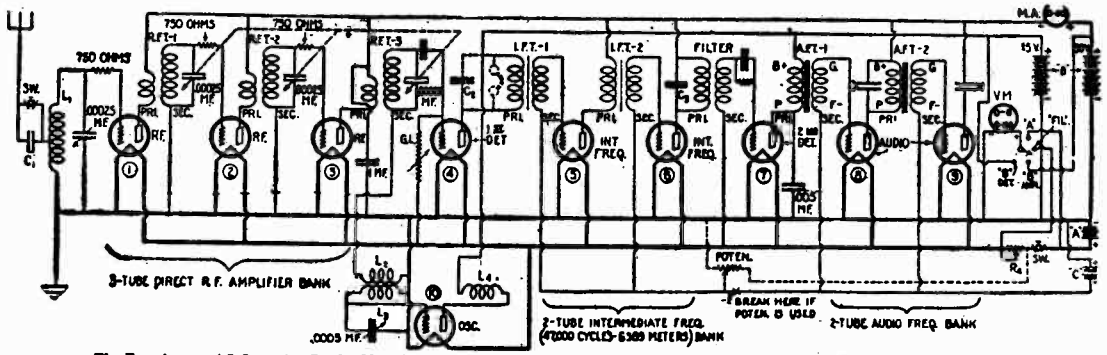
Model R-8

Model R-8 (1930)

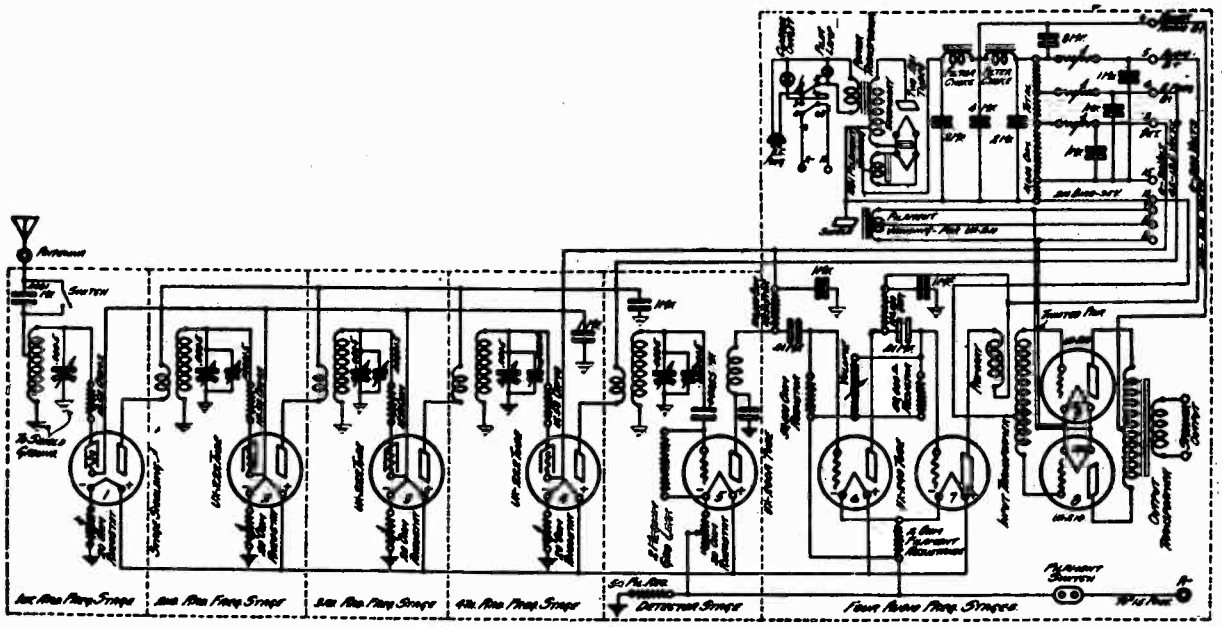


MODEL C-10
MODEL Silver-Ghost
MODEL C

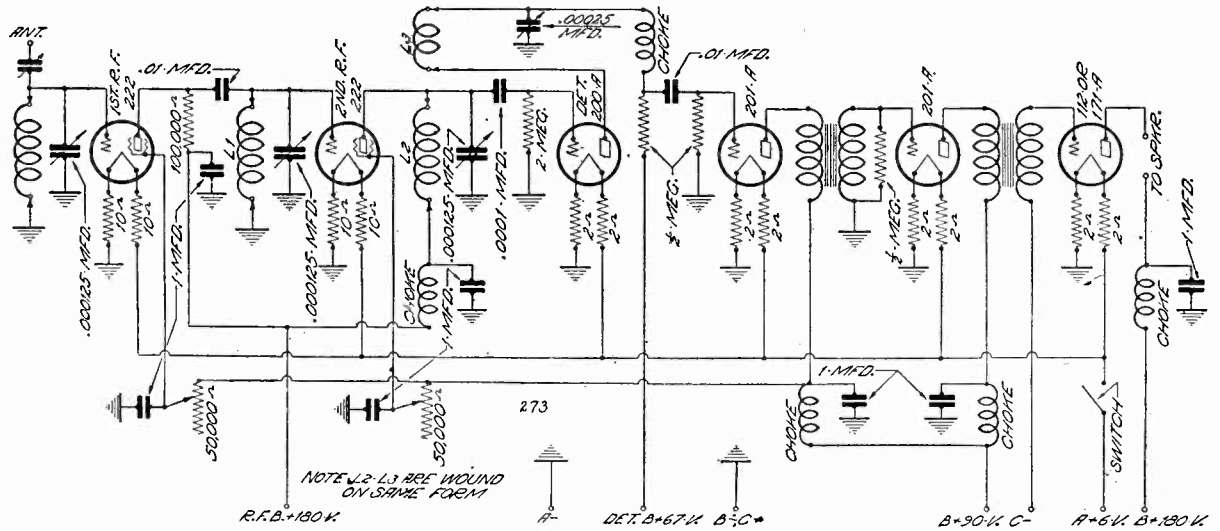
C. R. LEUTZ, INC.



The Experimenters' Information Service Navy Model C-10 super-heterodyne designed for a wave-length range from 600 meters down to 50 meters, the band being covered through the employment of interchangeable coils.

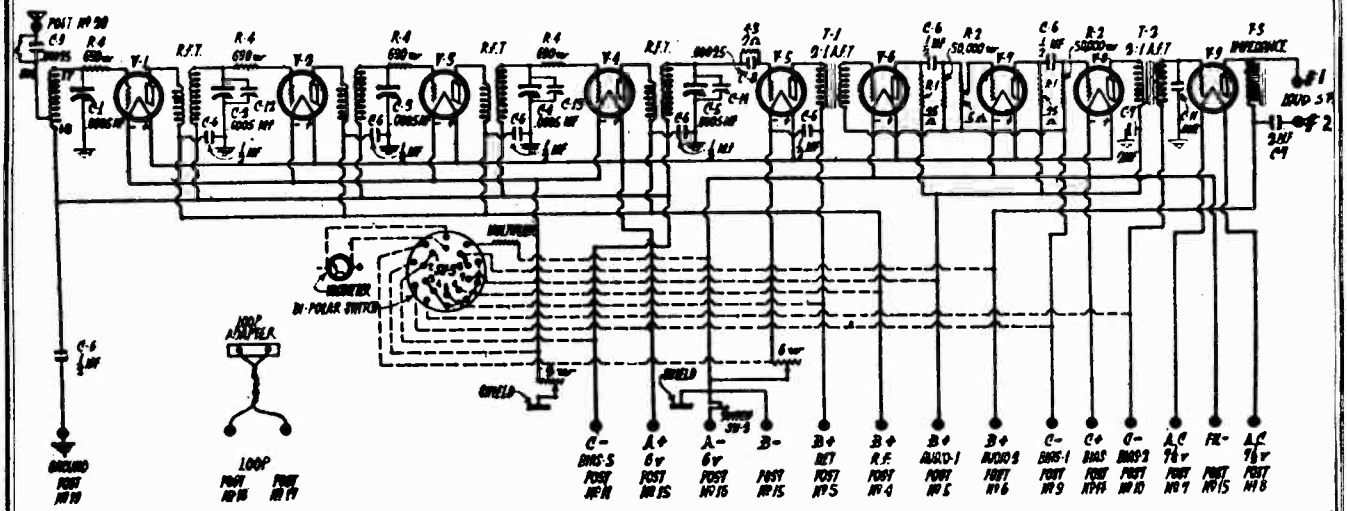


Circuit Diagram of New "Silver Ghost" Receiver

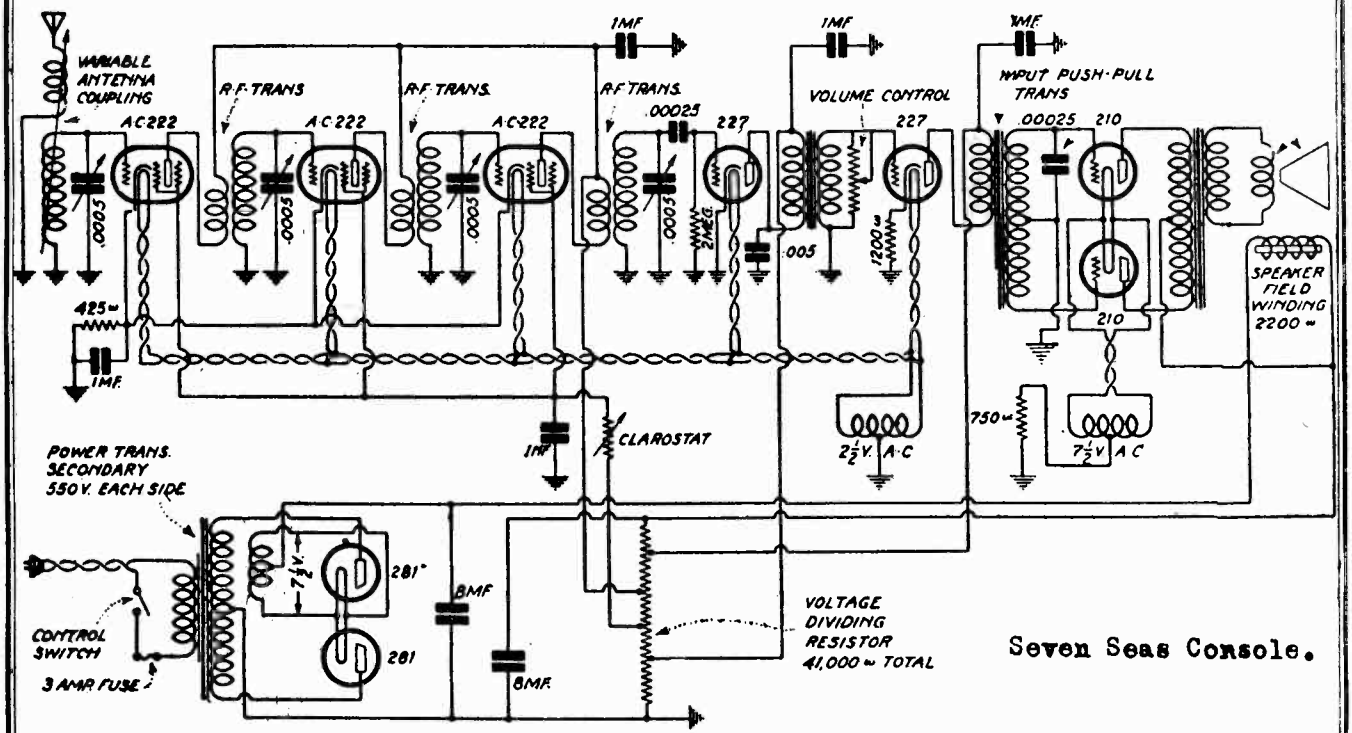


MODEL Trans-Oceanic
MODEL Seven Seas

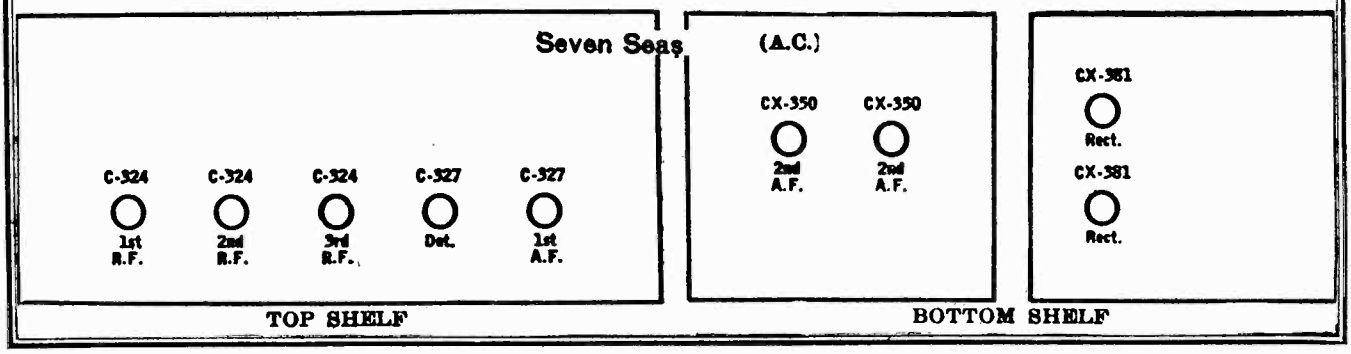
C. R. LEUTZ, INC.



Universal Trans-Oceanic Receiver.

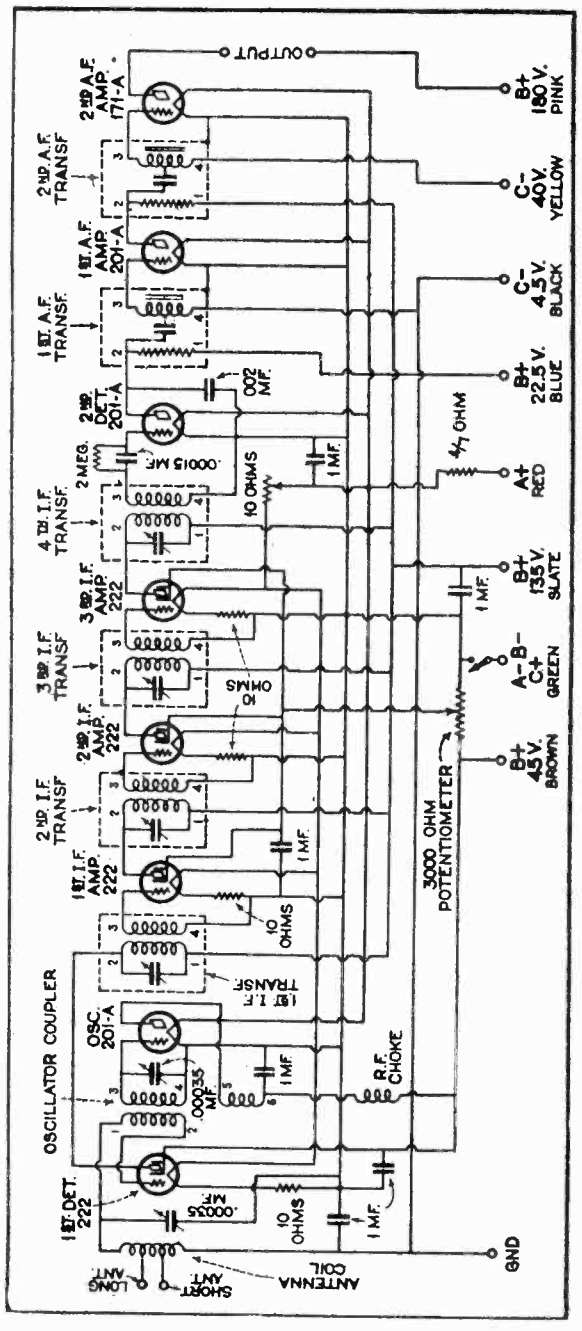


Seven Seas Console.

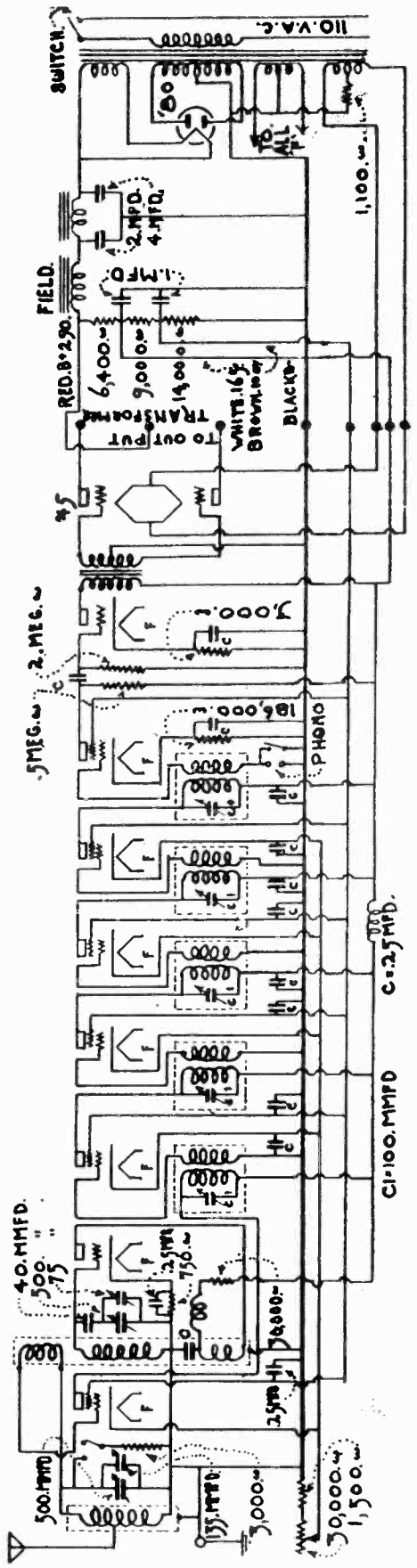


LINCOLN RADIO CORP.

MODEL 8-80
MODEL 31



Model 8-80



Model 31