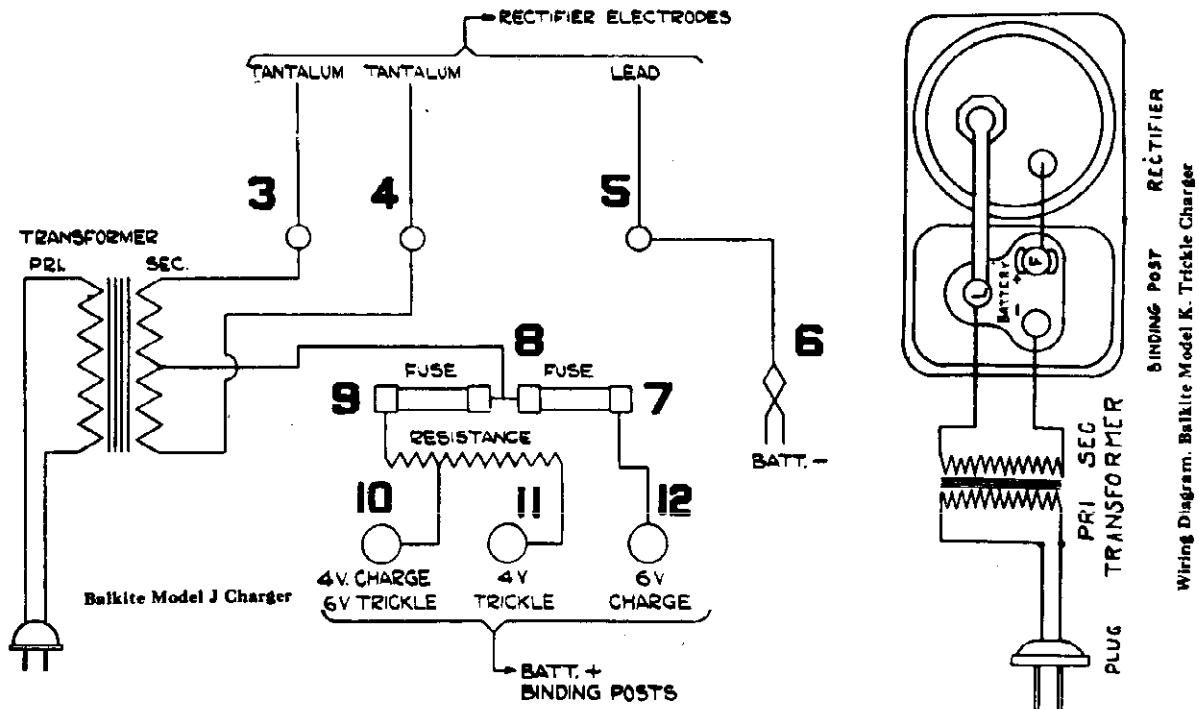
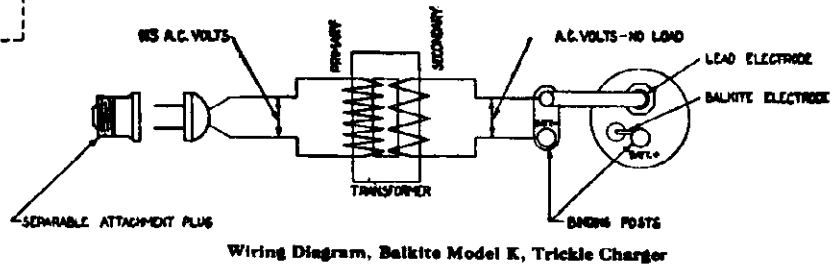
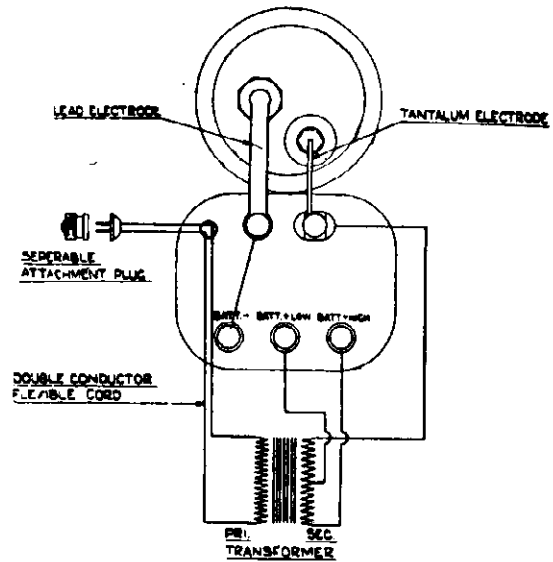
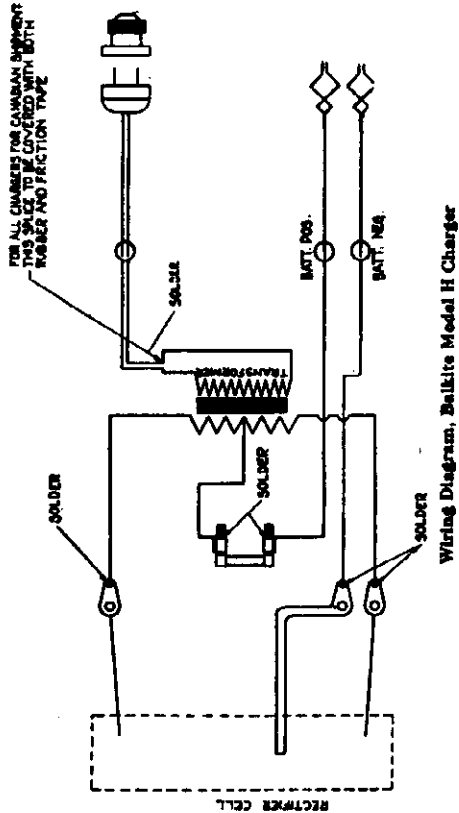


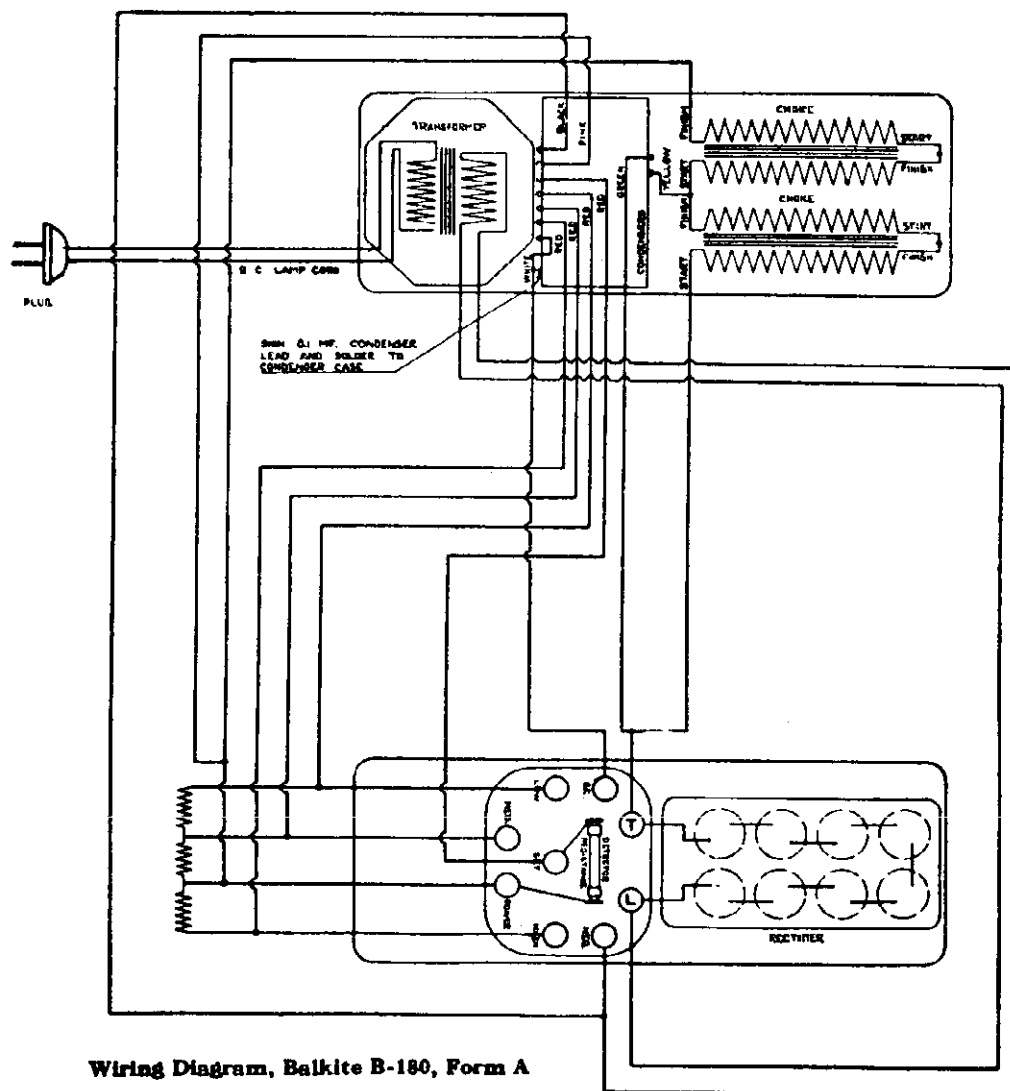
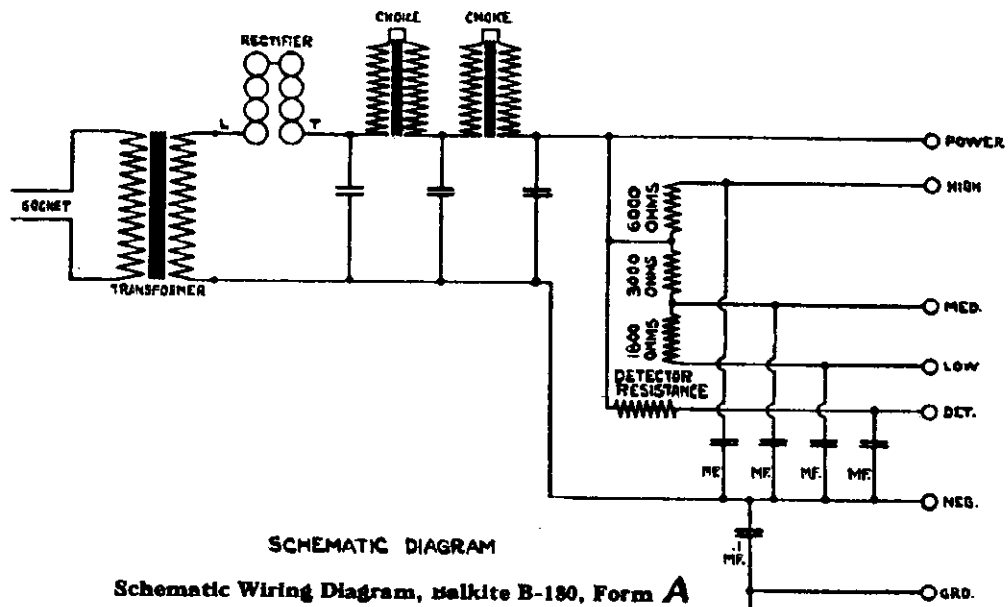
MODEL H - J Chargers
MODEL K - N Chargers

BALKITE PRODUCTS CO.



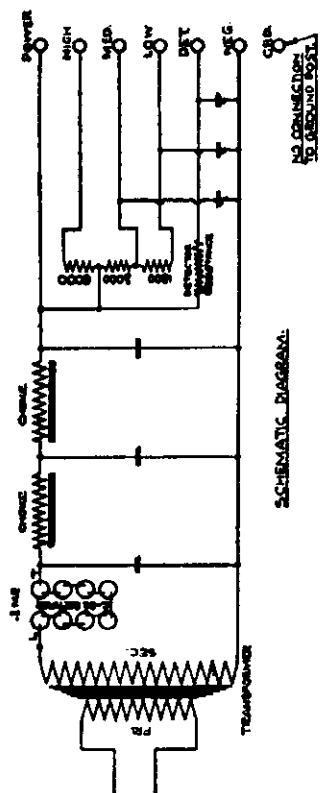
MODEL B-180 Form A

BALKITE PRODUCTS CO.



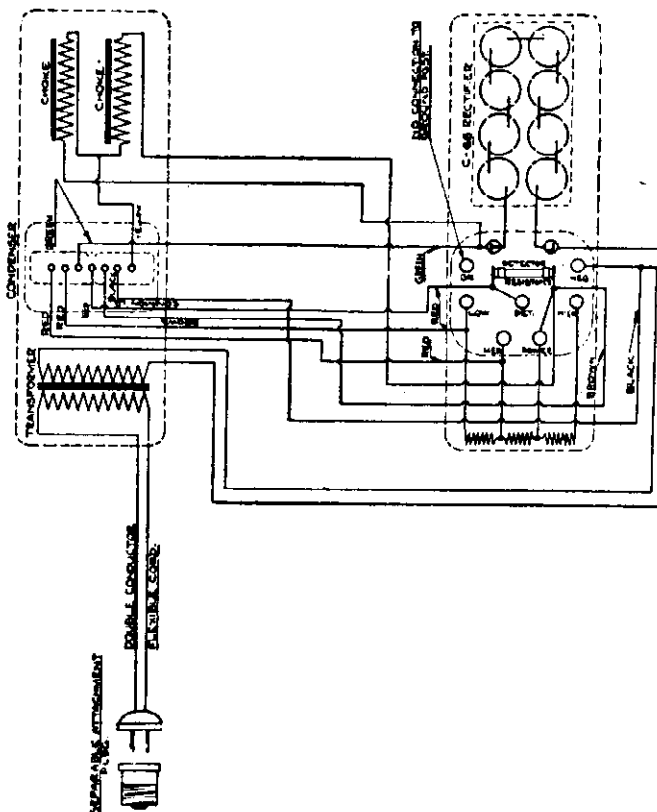
MODEL AB-6-180 Form A
MODEL B-180 Form B

BALKITE PRODUCTS CO.

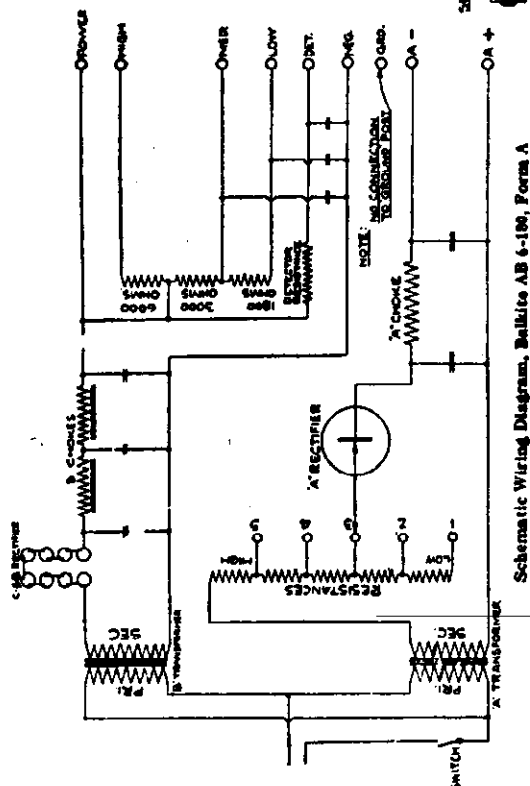


SCHEMATIC DIAGRAM.

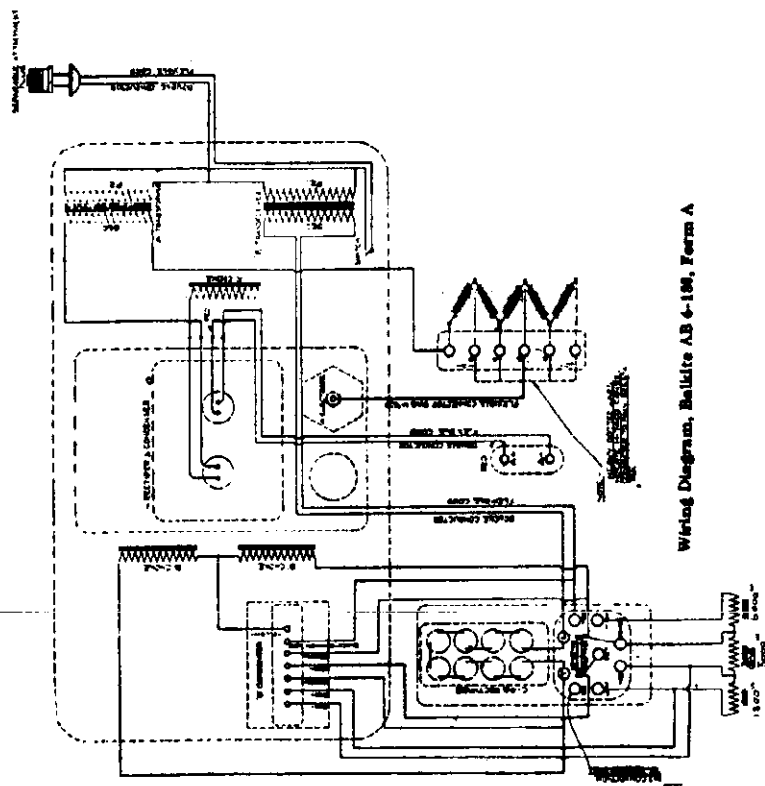
Schematic Wiring Diagram, Bulletin B-189, Form B



Wiring Diagram, Bulbrite B-190, Form B



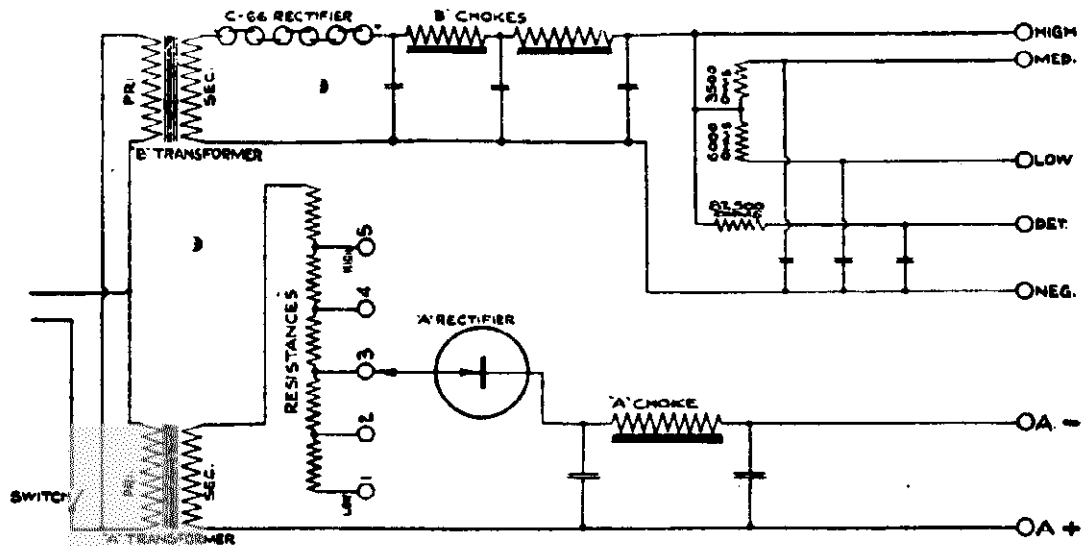
Schematic Wiring Diagram, Ballite AB 6-180, Form A



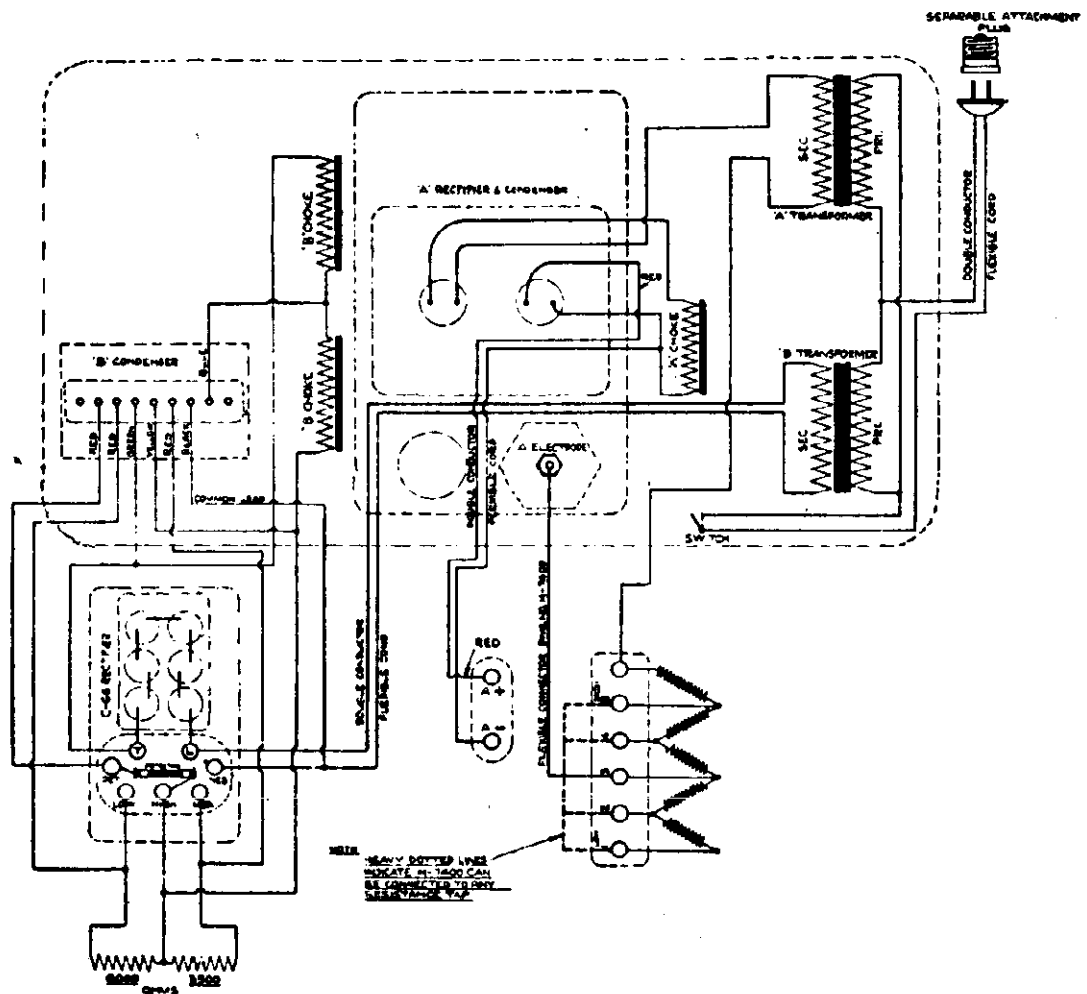
Wiring Diagram, Bulbrite AB 6-180, Form A

BALKITE PRODUCTS CO.

MODEL AB-6-135 Form A



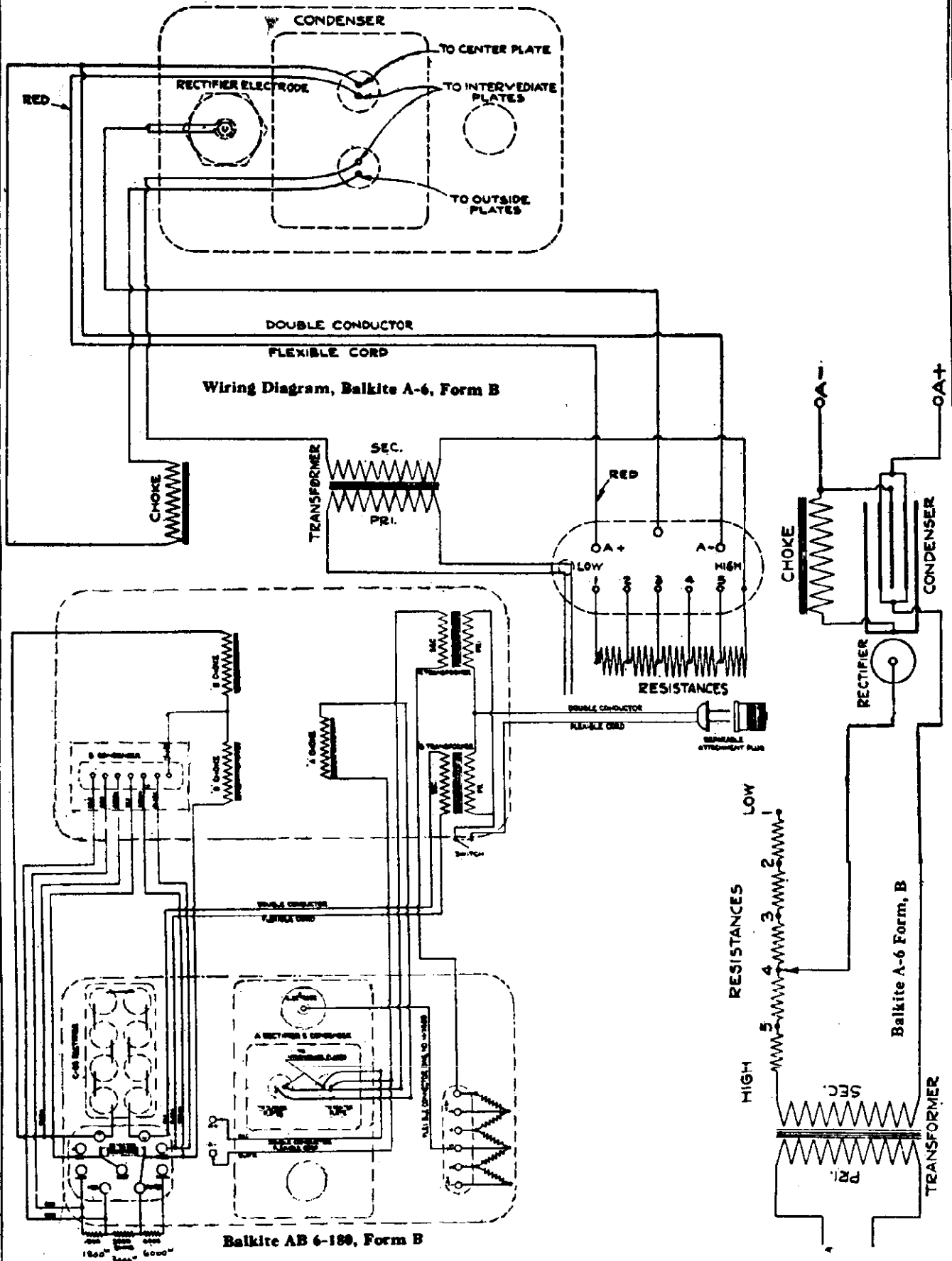
Schematic Wiring Diagram, Balkite AB 6-135, Form A



Wiring Diagram, Balkite AB 6-135, Form A

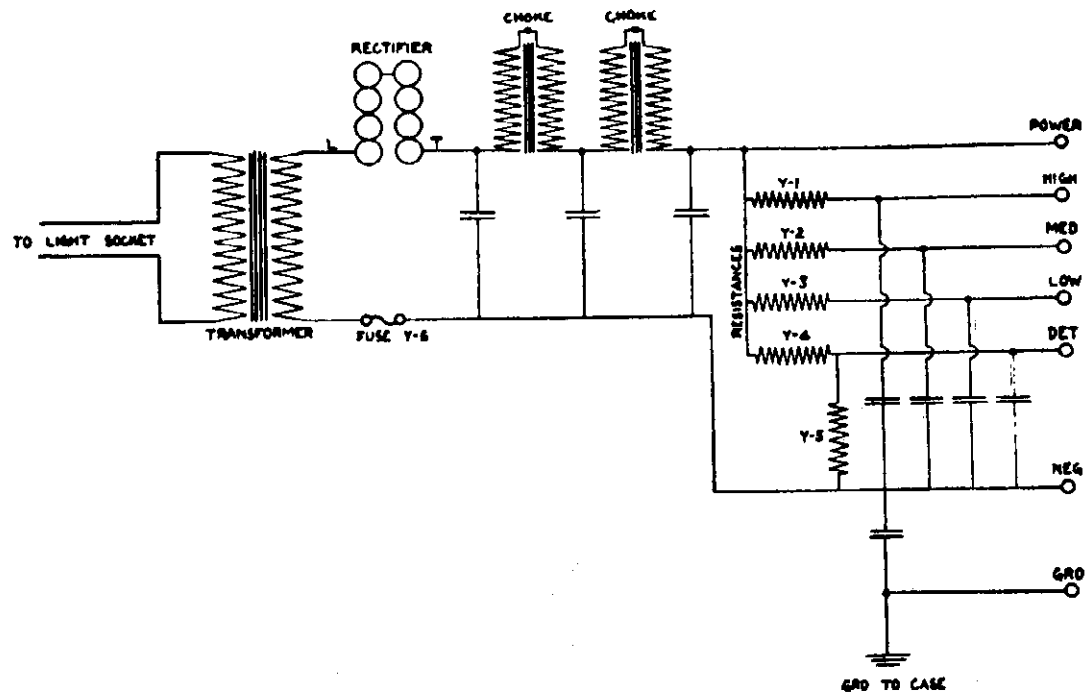
MODEL AB-6 Form B

BALKITE PRODUCTS CO.

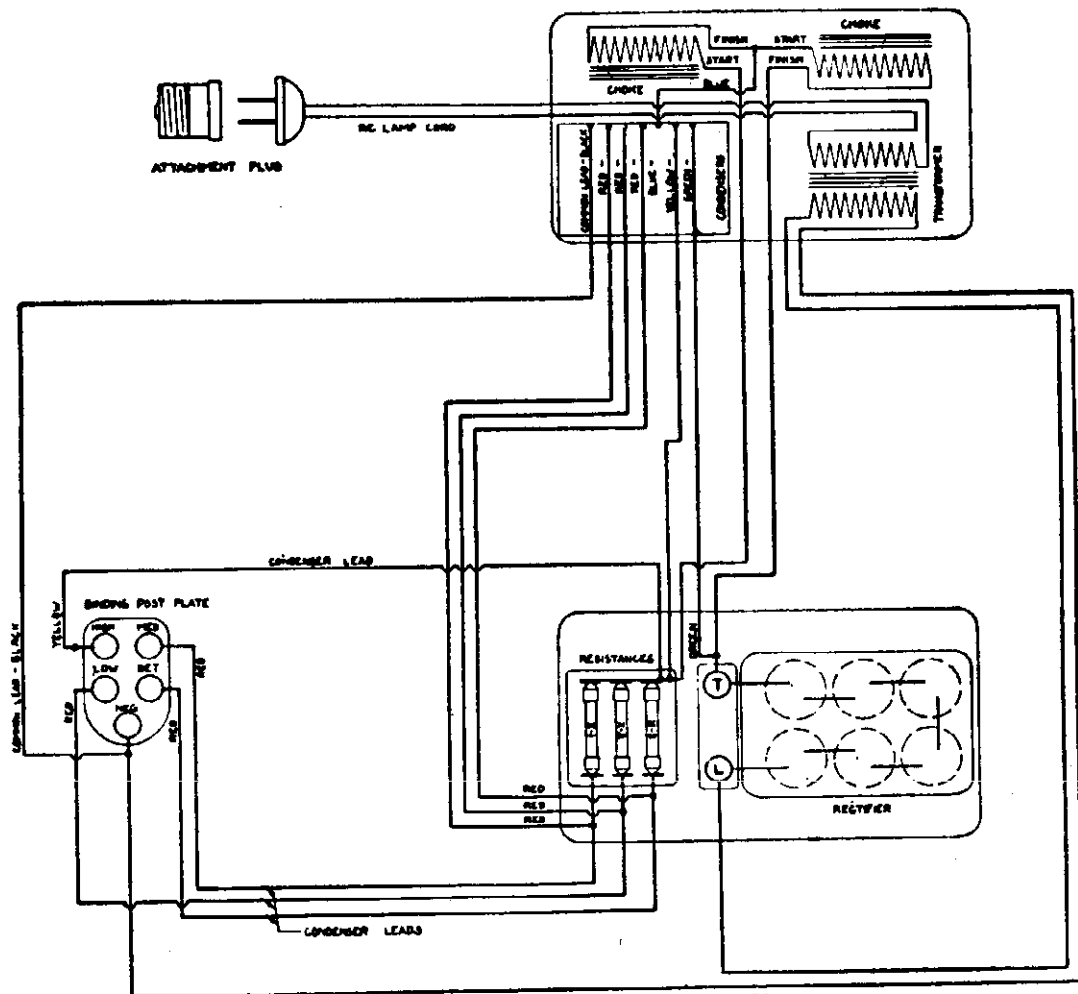


MODEL BY

BALKITE PRODUCTS CO.



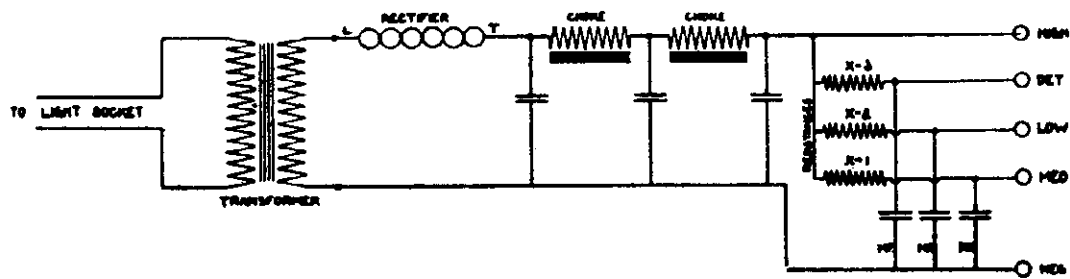
Schematic Wiring Diagram, Balkite BY



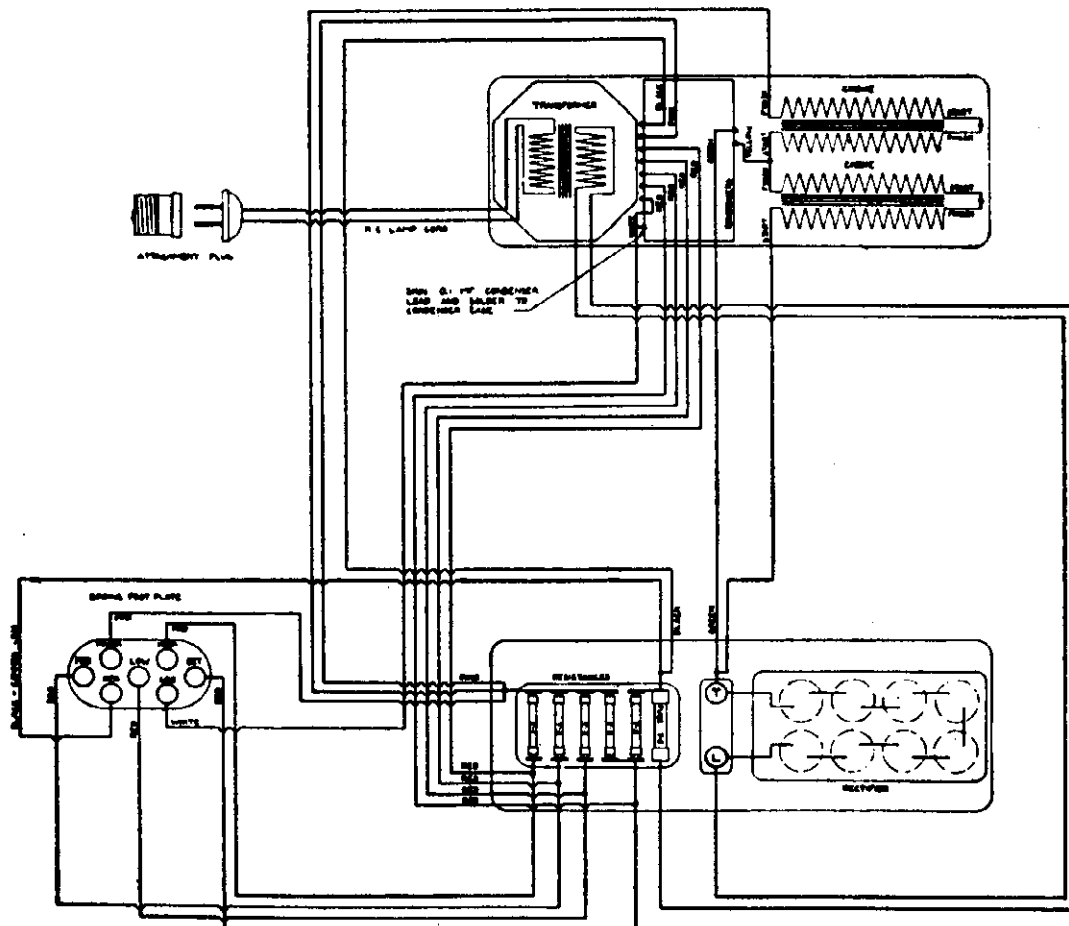
Wiring Diagram, Balkite BY

MODEL A-6
MODEL B-X

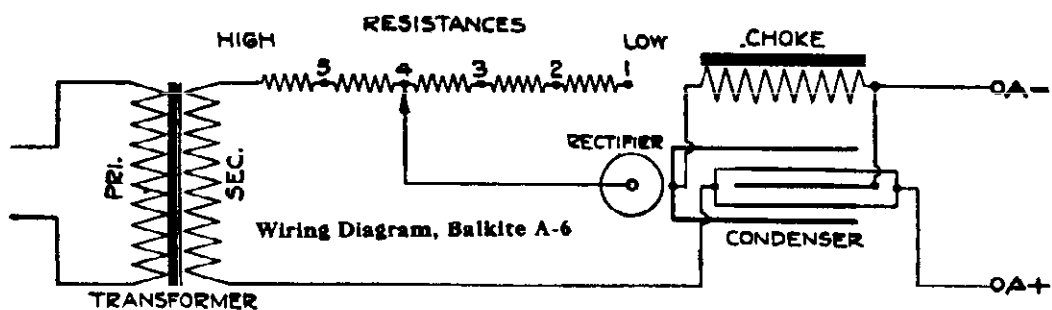
BALKITE PRODUCTS CO.



Schematic Wiring Diagram, Balkite BX



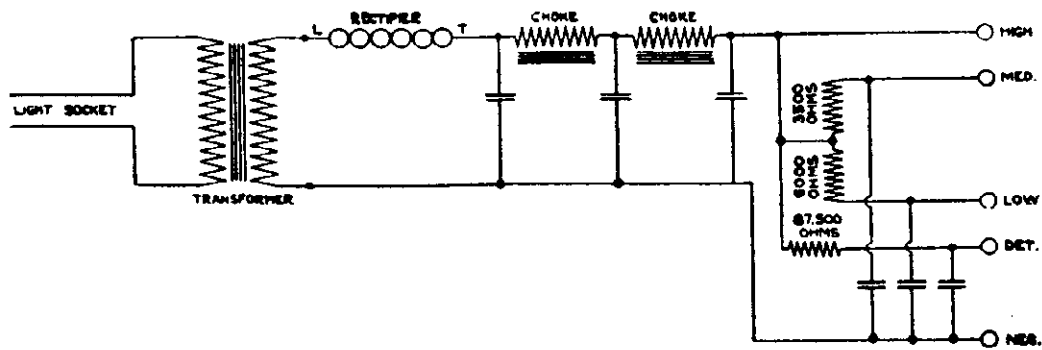
Wiring Diagram, Balkite BX



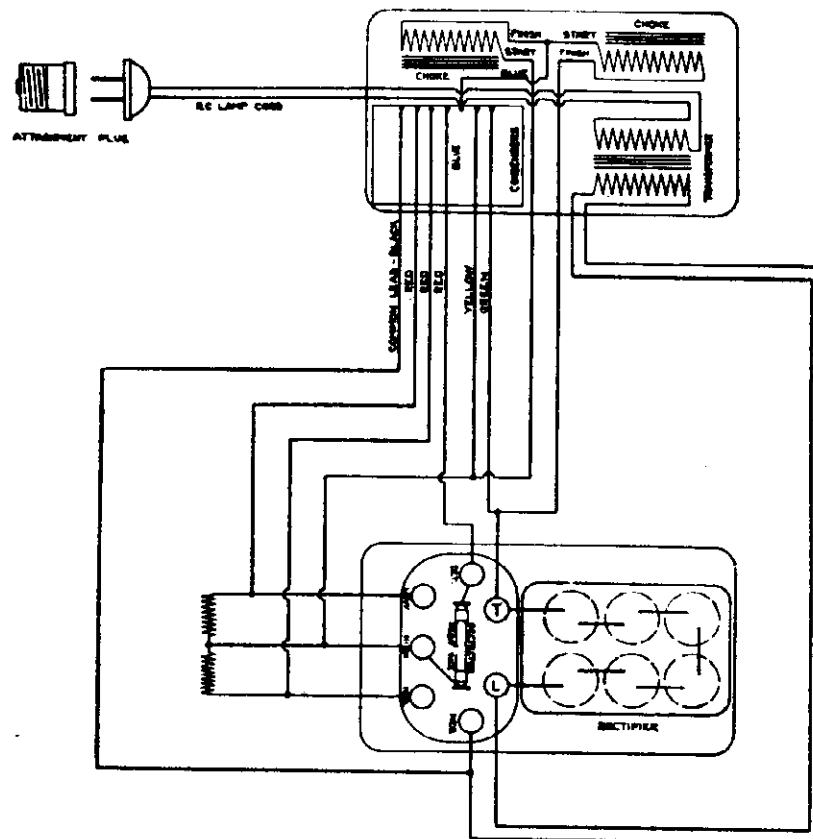
Wiring Diagram, Balkite A-6

BALKITE PRODUCTS CO.

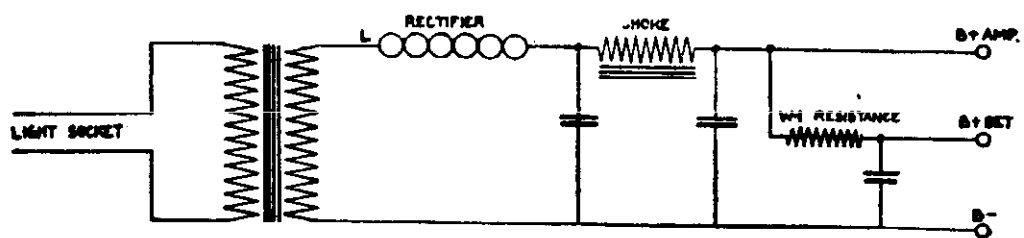
MODEL B-135 Form A
MODEL B-W



Schematic Wiring Diagram, Balkite B-135



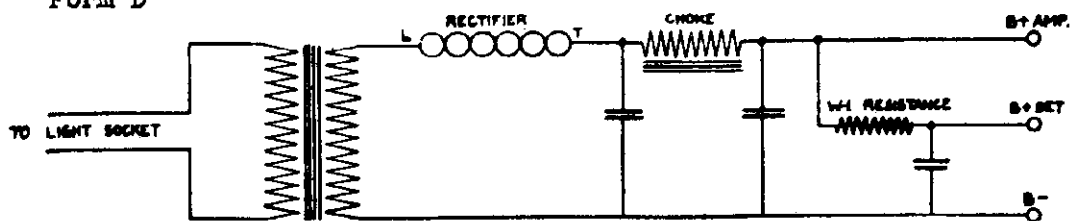
Wiring Diagram, Balkite B-135, Form A



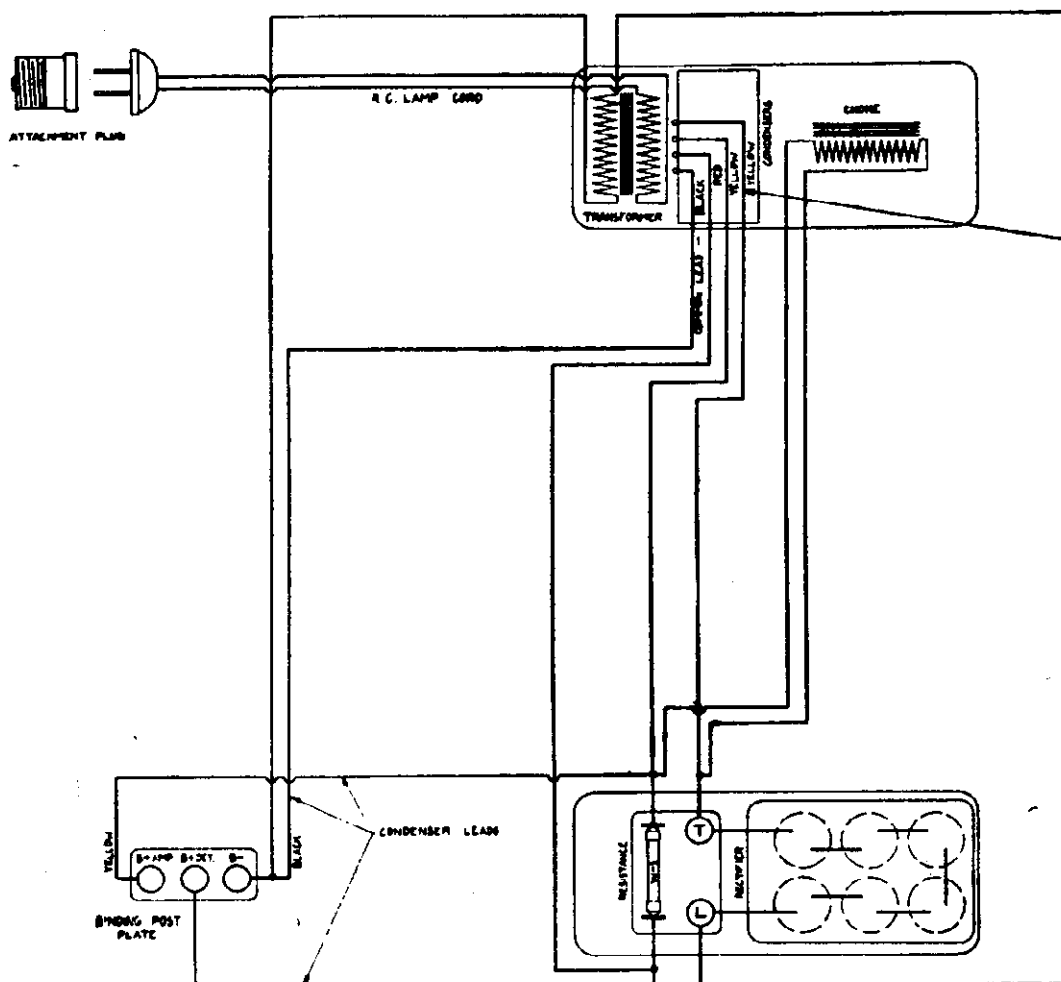
Wiring Diagram, Balkite BW

MODEL B-H
MODEL B-W Form D
MODEL B Form D

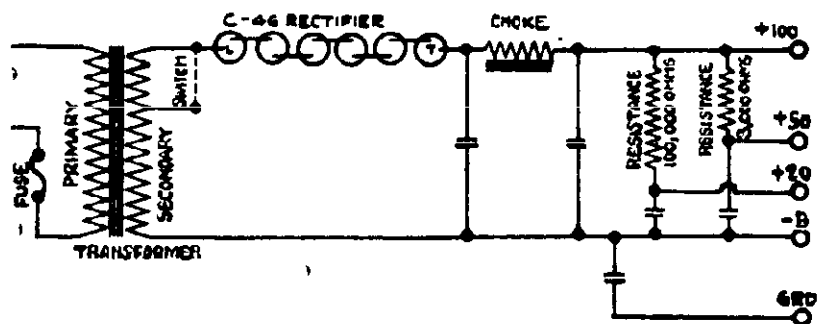
BALKITE PRODUCTS CO.



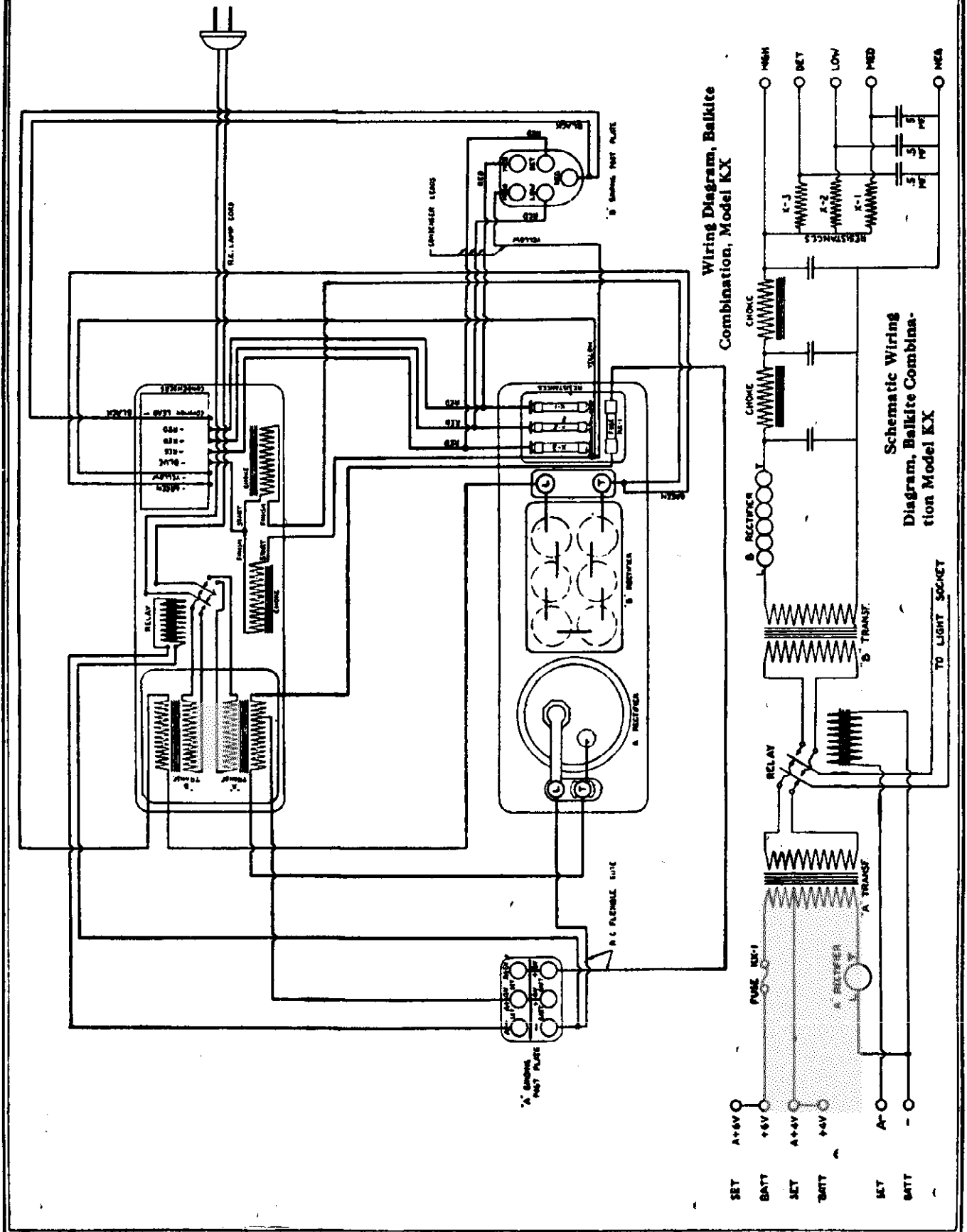
Schematic Wiring Diagram, Balkite BW or Balkite B, Model D



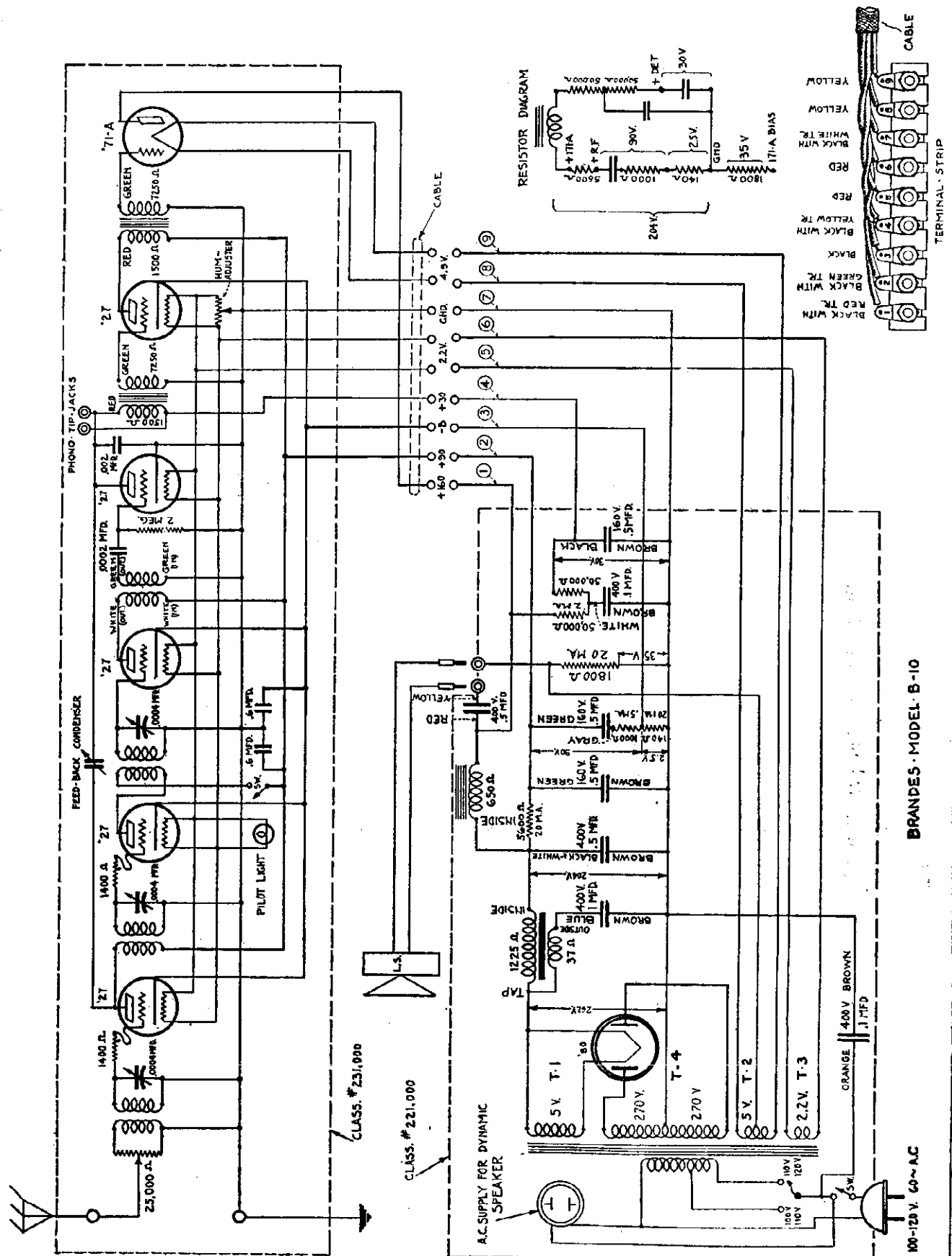
Wiring Diagram, Balkite BW or Balkite B, Model D



Wiring Diagram, Balkite B-H



MODEL B-10



MODEL B-10 -
Voltage

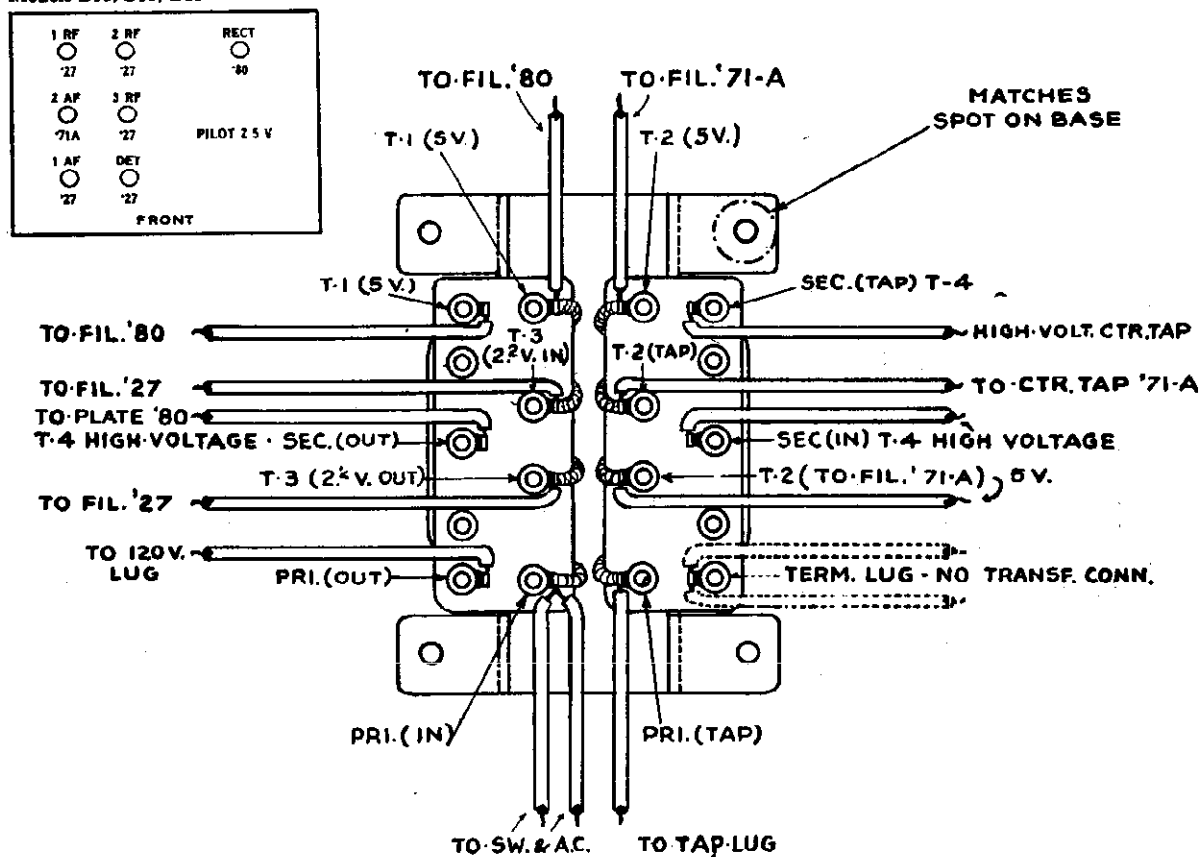
BRANDES PRODUCTS CORP.

Input Voltage 115			Switch 110-120 Side				
Tube No.	Type Tube	Position of Tube	A Volts	B Volts	C Volts	Normal Plate MA	Plate MA Grid Test
1	' 27	1st R.F.	2	88	3	4.3	8.
2	' 27	2nd R.F.	2	88	3	4.3	8.
3	' 27	3rd R.F.	2	88	3	6.	9.2
4	' 27	Detector	2	36	3	3.	3.1
5	' 27	1st Audio	2	88	3	5.3	8.2
6	' 71A	2nd Audio	5	164	35	20.	30
7	' 80	Rectifier	5				

The above readings are the average and may vary due to differences in line voltage, variation in tube characteristics, etc.

The readings are given merely as a guide to work from.

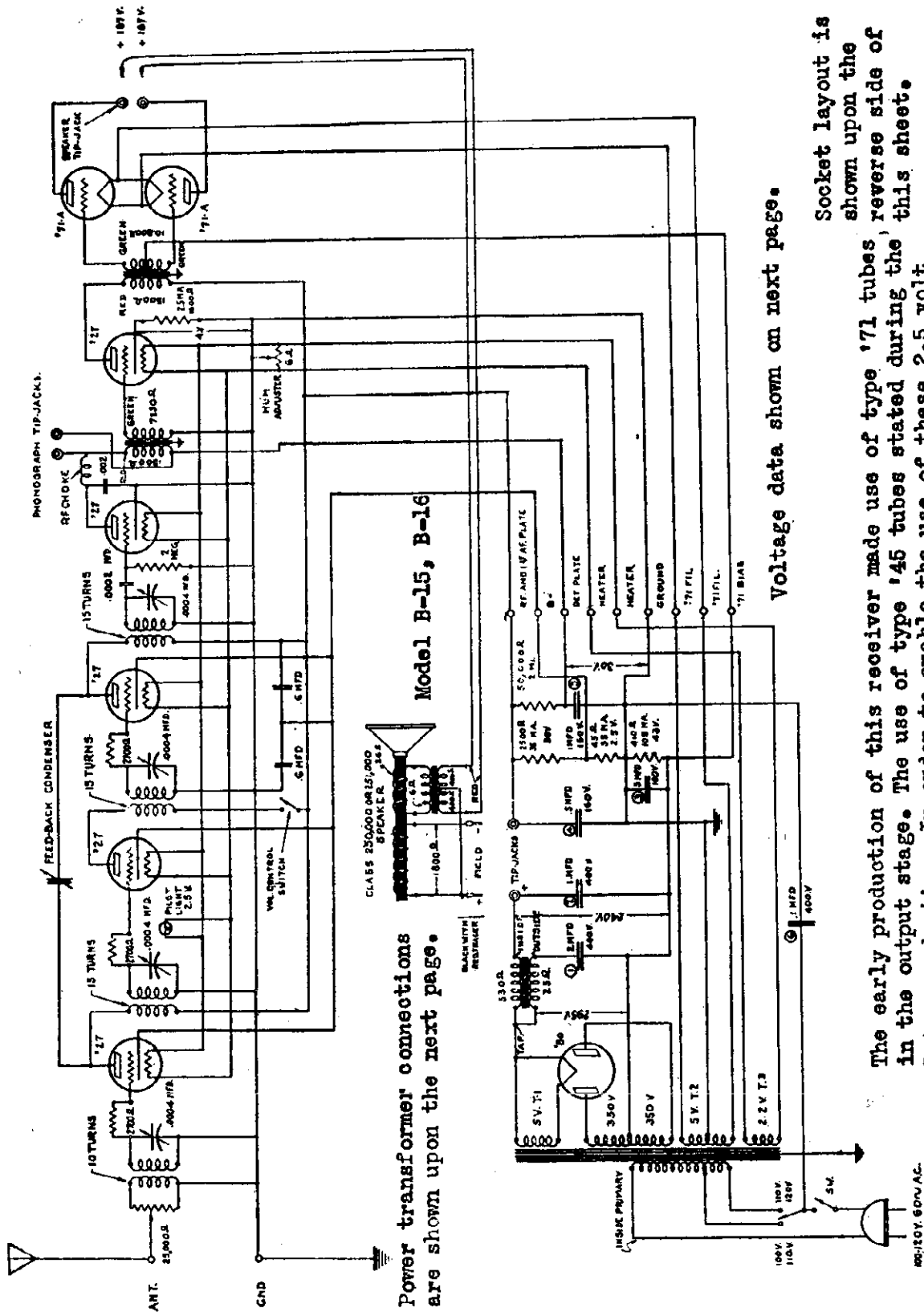
Models B10, B11, B12



POWER TRANSFORMER ASSEMBLY

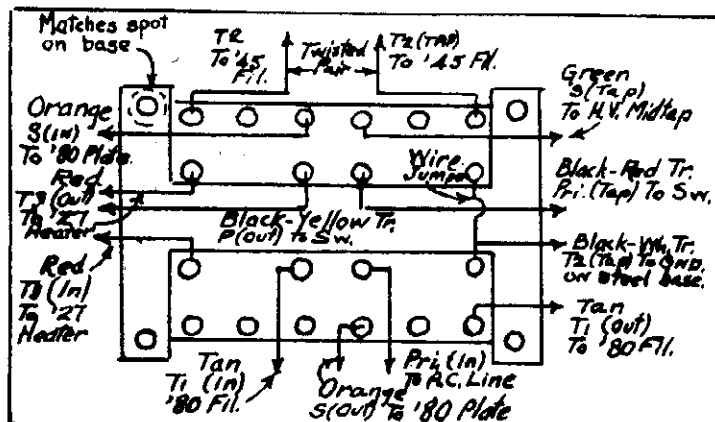
MODEL B-15, B-16

BRANDES PRODUCTS CORP.

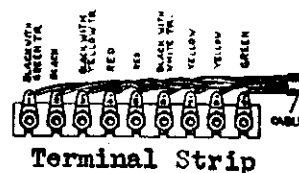
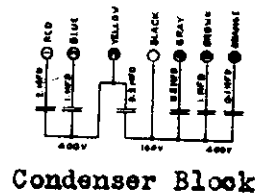


BRANDES PRODUCTS CORP.

MODEL B-15, B-16
Voltage and Data



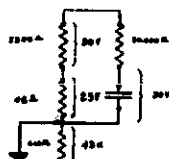
POWER TRANSFORMER CONNECTIONS
FOR LATE MODELS



BRANDES—Models 15 and 16
Line Voltage 112—Volume Control Position Max
*Grid leak not shorted.

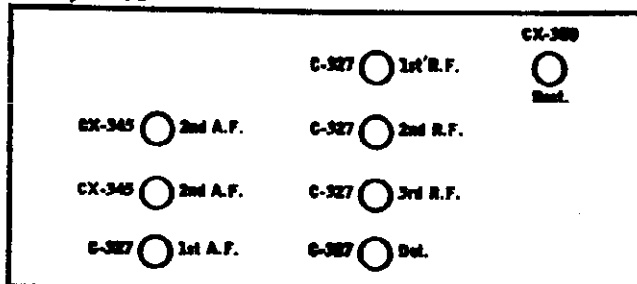
TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1st BY SET ETC	READINGS PLUG IN SOCKET OF SET									
			TUBE OUT					TUBE IN TESTER				
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS	CATHODE HEATER VOLTS	NORMAL PLATE M.A.	PLATE CHANGE M.A.	SCREEN GRID VOLTS	SCREEN GRID M.A.
1	227	1st RF	2.5	94	2.2	90	2.5	—	5.6	10.0	4.4	—
2	227	2nd RF	2.5	98	2.2	90	2.5	—	5.6	10.0	4.4	—
3	227	3rd RF	2.5	94	2.2	90	2.5	—	5.6	10.0	4.4	—
4	227	Det.	2.5	80	2.2	24	0	—	1.3	1.3	—	—
5	227	1st A	2.5	95	2.2	65	5	—	3	4.2	1.2	—
6	245	2nd A	2.4	210	2.3	190	36	—	18	21	3	—
7	245	2nd A	2.4	210	2.3	190	36	—	18	21	3	—
8	200	—	5	—	—	—	—	—	100	—	—	—

The above voltage table shows '45 type tubes in the output stage. When '71s are used, the filament voltage without the tubes in the sockets is 4.5 and the plate voltage under similar conditions is 200. With the tubes in the sockets the filament voltage is about 4.5, the plate voltage about 187, grid bias, 36 volts and plate current about 20 ma.

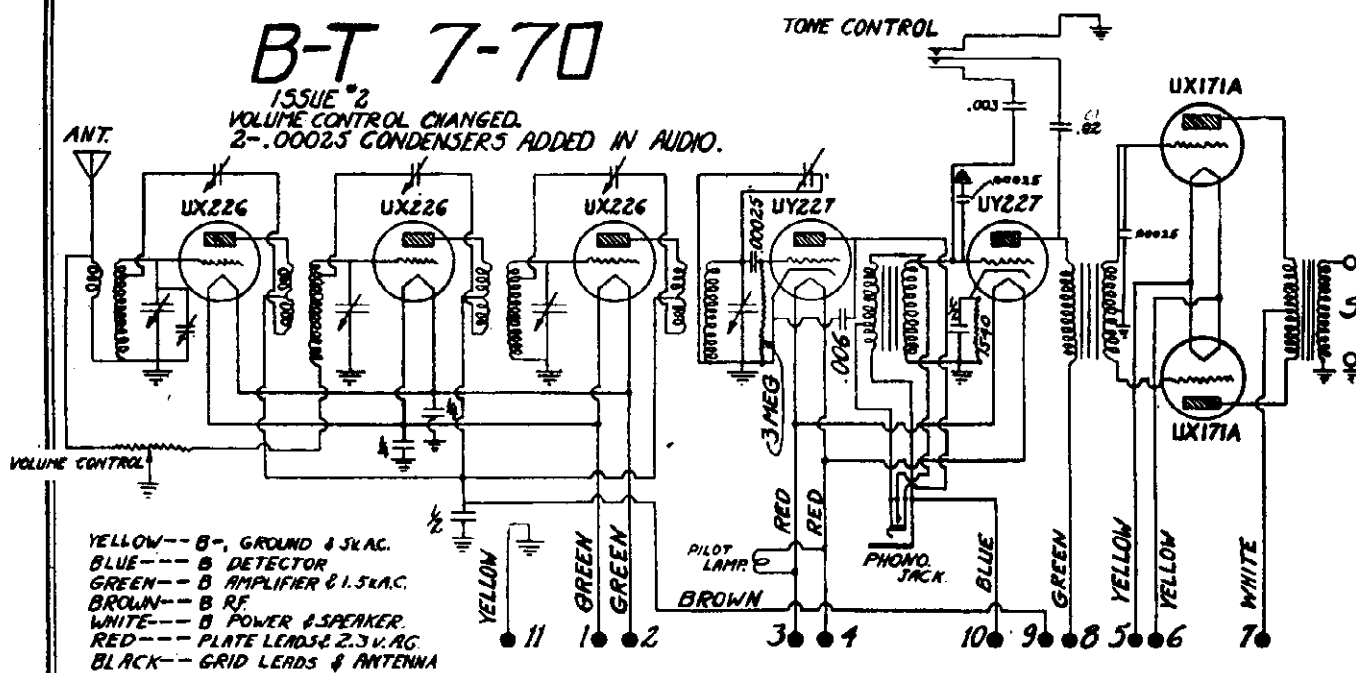
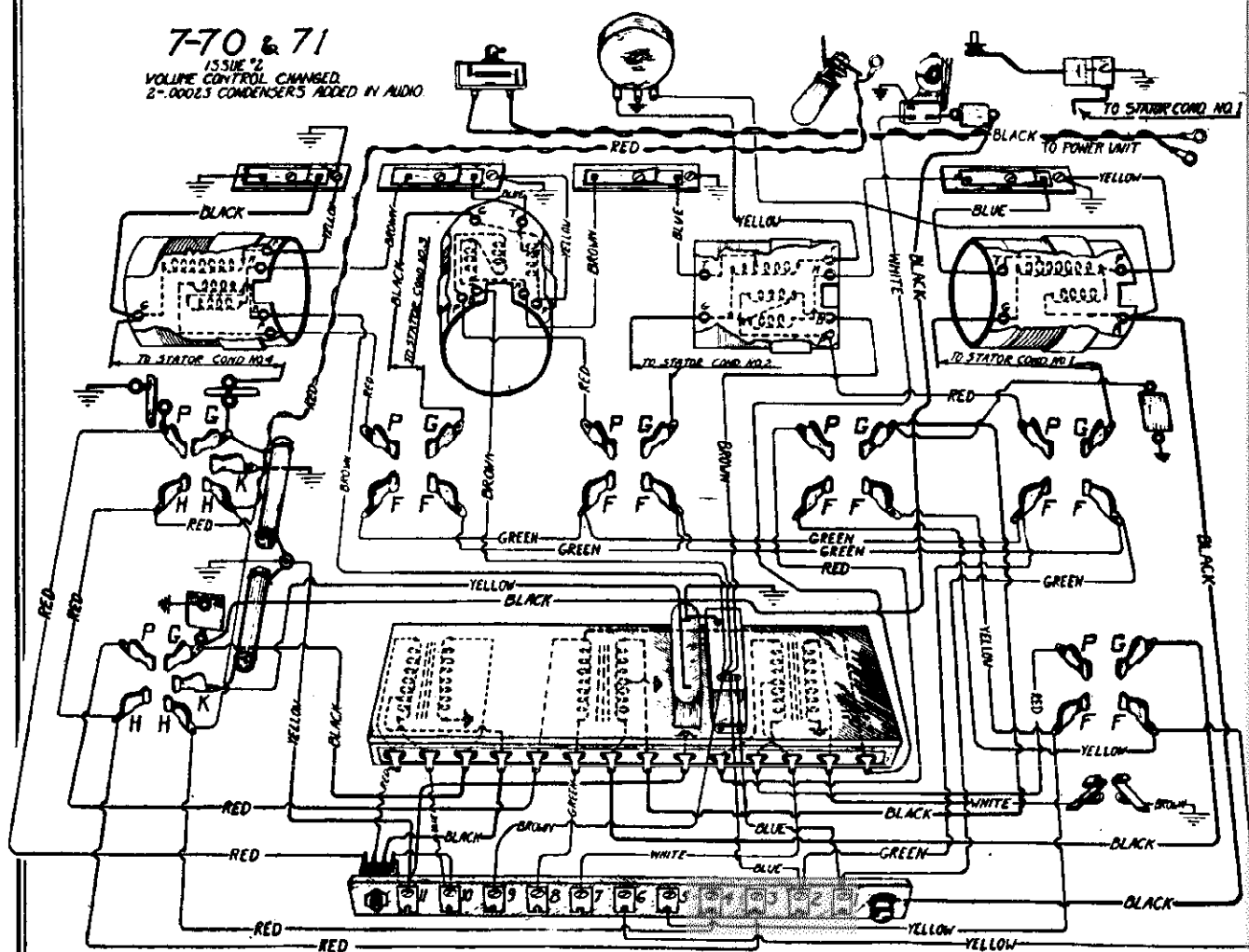


Resistor Diagram

B-15, B-16



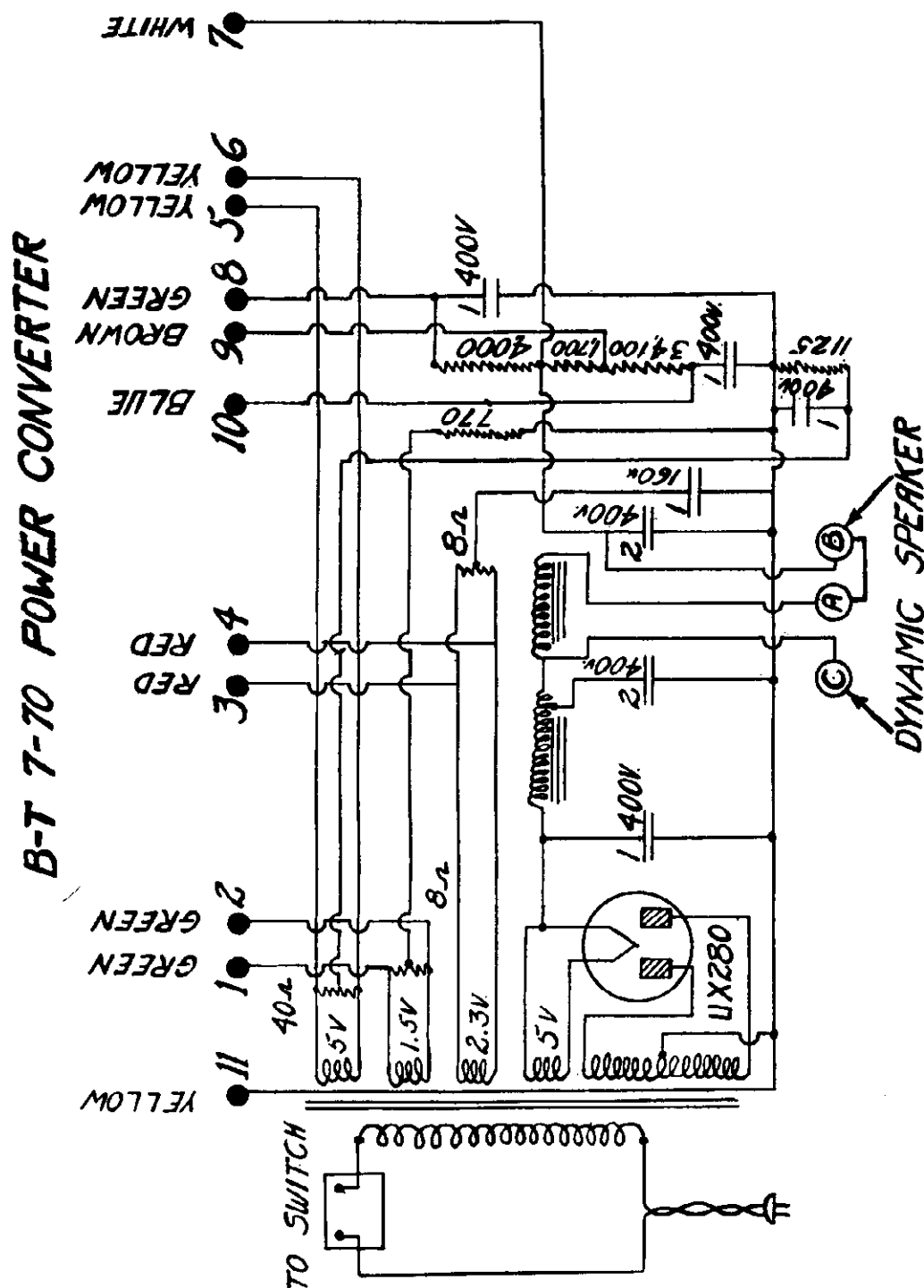
BREMER-TULLY MFG. CO

MODEL 7-70
Receiver**B-T 7-70**ISSUE #2
VOLUME CONTROL CHANGED.
2-.00025 CONDENSERS ADDED IN AUDIO.**7-70 & 71**ISSUE #2
VOLUME CONTROL CHANGED.
2-.00025 CONDENSERS ADDED IN AUDIO.

MODEL 7-70

Power Converter

BREMER-TULLY MFG. CO

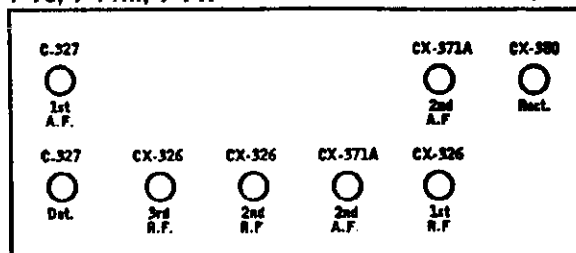


BREMER-TULLY—Models 7-70 and 7-71
Line Voltage 115

7-70, 7-71M, 7-71P

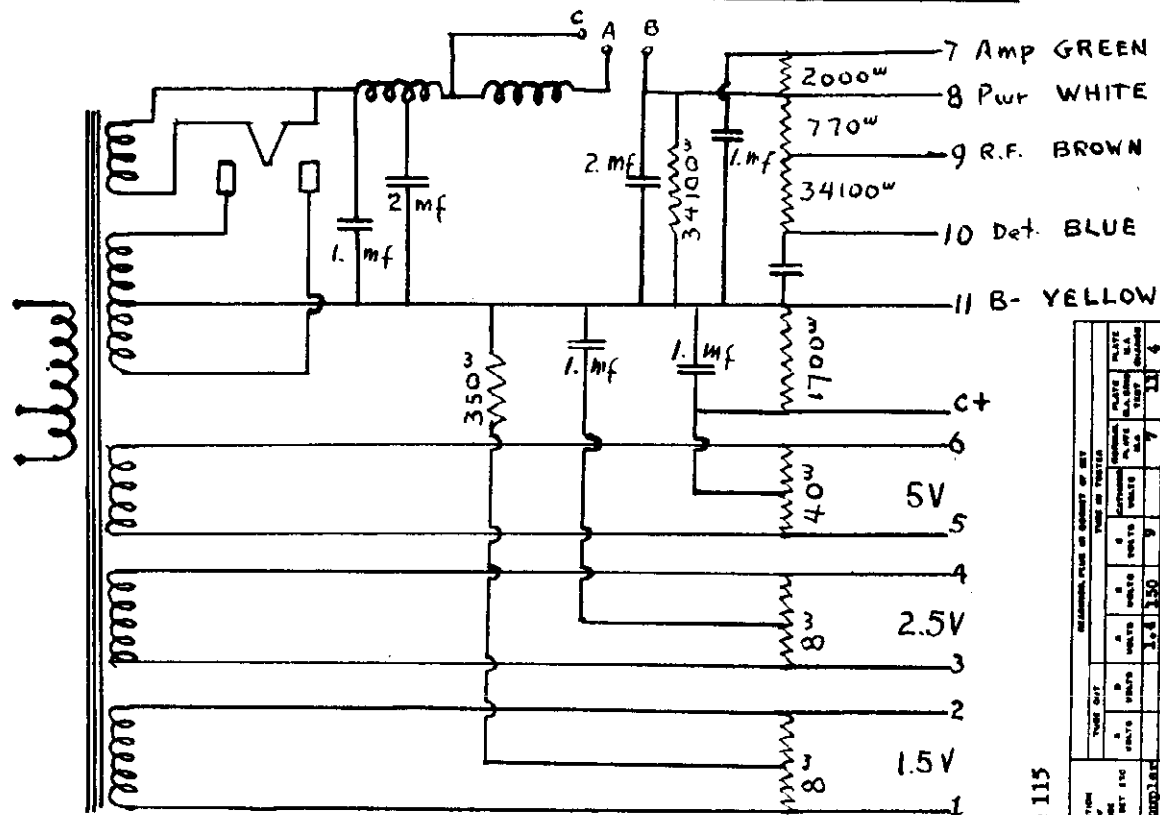
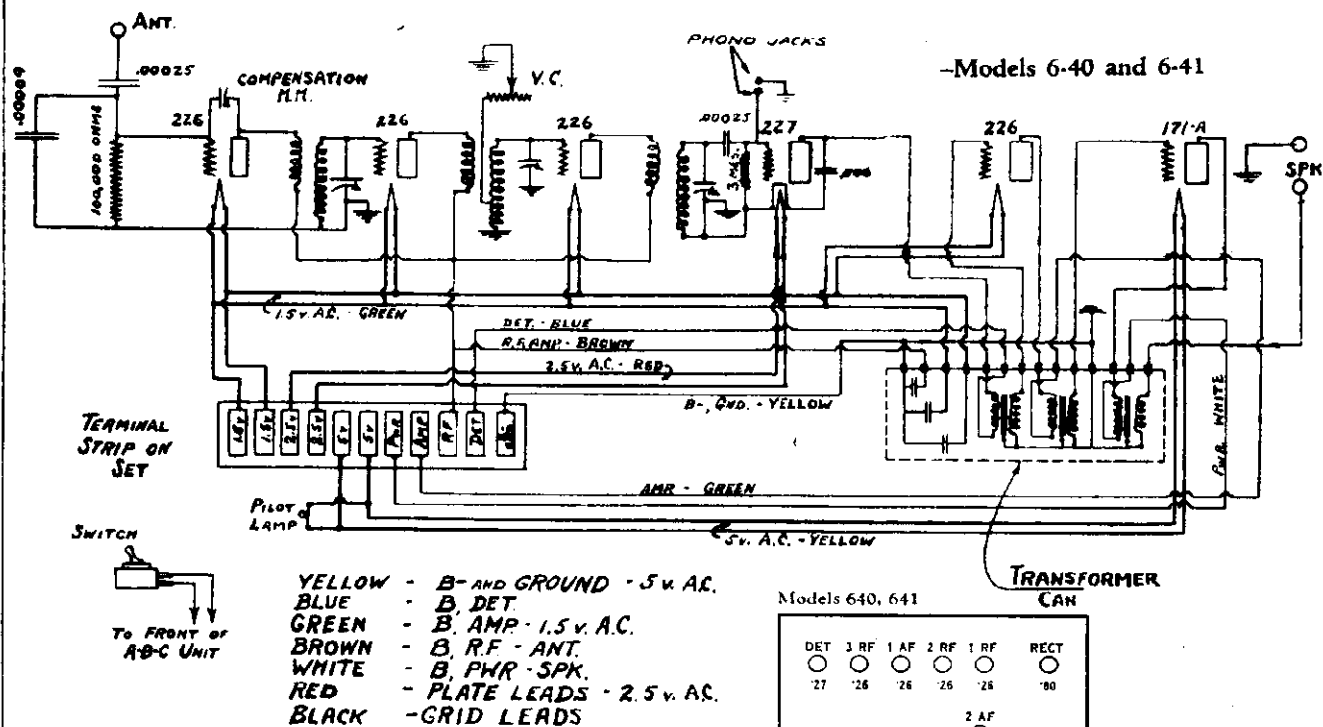
(A.C.)

TIME OF DAY	TYPE OF TUBE	POSITION OF TUBE 1ST BY SET ETC	HEAVYWEIGHT PUMP IN POSITION BY SET									
			TUBE OUT		TUBE IN TESTS							
			# PULSES	# VOLTS	# PULSES	# VOLTS	# CYCLOPS VOLTS	PLATE PA MA	PLATE PA AMP TEST	PLATE PA AMP CHANGE		
226	1st R.F.		1.4	150	9	--	5	12				
171A	Push-Pull		4.9	150	30	--	18	31		13		
226	2nd R.F.		1.4	150	9	--	5	12		7		
226	3rd R.F.		1.4	150	9	--	5	12		7		
227	Detector		2.4	60	0	--	2	--				
227	1st A.F.		2.4	150	8	--	5	8		3		
171A	Push-Pull		4.9	150	18	--	18	31		13		



MODEL 6-40, 6-41

BREMER-TULLY MFG. CO



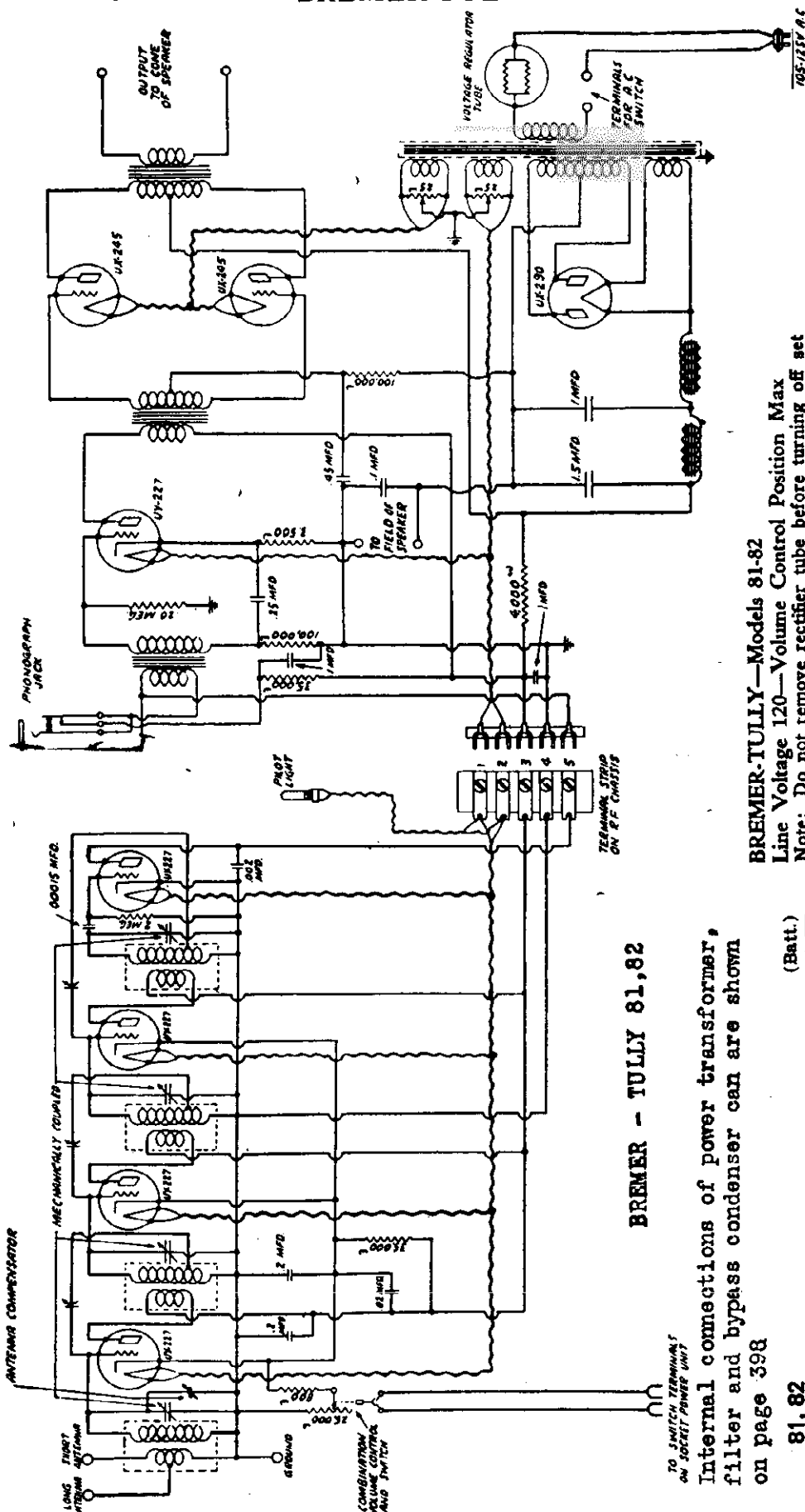
Model 6-40 ABC Power Pack

Line Voltage 115

TIME OF OCCURRENCE	TIME OF REPORT	POSITION OF VESSEL (LAT & LONG)	REMARKS (NAME OF VESSEL, TYPE OF VESSEL, TONNAGE, ETC.)									
			VESSEL NAME		VESSEL TYPE		VESSEL TONNAGE		VESSEL COUNTRY		VESSEL STATUS	
1-228	1-228	Ati, Compler	1	2	3	4	5	6	7	8	9	10
2-228	2-228	Ati, Compler	1	2	3	4	5	6	7	8	9	10
3-228	3-228	Ati, Compler	1	2	3	4	5	6	7	8	9	10
4-229	4-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
5-229	5-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
6-229	6-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
7-229	7-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
8-229	8-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
9-229	9-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
10-229	10-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
11-229	11-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
12-229	12-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
13-229	13-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
14-229	14-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
15-229	15-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
16-229	16-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
17-229	17-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
18-229	18-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
19-229	19-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
20-229	20-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
21-229	21-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
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24-229	24-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
25-229	25-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
26-229	26-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
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29-229	29-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
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31-229	31-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
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81-229	81-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
82-229	82-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
83-229	83-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
84-229	84-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
85-229	85-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
86-229	86-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
87-229	87-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
88-229	88-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
89-229	89-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
90-229	90-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
91-229	91-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
92-229	92-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
93-229	93-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
94-229	94-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
95-229	95-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
96-229	96-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
97-229	97-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
98-229	98-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
99-229	99-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10
100-229	100-229	Ati, Compler	1	2	3	4	5	6	7	8	9	10

MODEL 81, 82

BREMER-TULLY MFG. CO



AF and Power Unit
Chassis layout is
shown on the re-
verse side of this
page.

BBREMER-TULLY—Models 81-82
Line Voltage 120—Volume Control Position Max
Note: Do not remove rectifier tube before turning off set.
as filament voltage is too high with rectifier tube out.

REARWARD PLUG IN SOCKET DQ SET													
TUBE NO AND TYPE	POSITION OF TUBE IN LINE	TUBE OUT				TUBE IN TEST				REGRAN PLATE EFFICIENCY			
		VOLTS	VOLTS	A	%	VOLTS	VOLTS	A	%				
1	227 1st RF	2.75	160	2.5	152	13	13	3.0	6.1	3.1	-		
2	227 2nd RF	2.75	160	2.5	152	13	13	3.0	11.8	8.8	-		
3	227 3rd RF	2.75	160	2.5	152	13	13	3.0	11.8	8.8	-		
4	227 Det.	2.75	160	2.5	152	-	-	3.2	3.2	0	-		
5	227 1st AF	2.75	160	2.5	144	13	13	3.7	4.3	.6	-		
6	245 2nd AF	2.65	209	2.45	145	-	-	25	30	4	-		
7	245 2nd AF	2.65	209	2.45	254	-	-	25	30	4	-		
8	250	4.65	-	4.75	255	-	-	-	-	-	-		
9	250 1st AC	77	M.C.	-	-	-	-	50	-	-	-		

BREMER - TULLY 81,82

Internal connections of power transformer, filter and bypass condenser can be shown on page 398

(Batt.)

81, 82

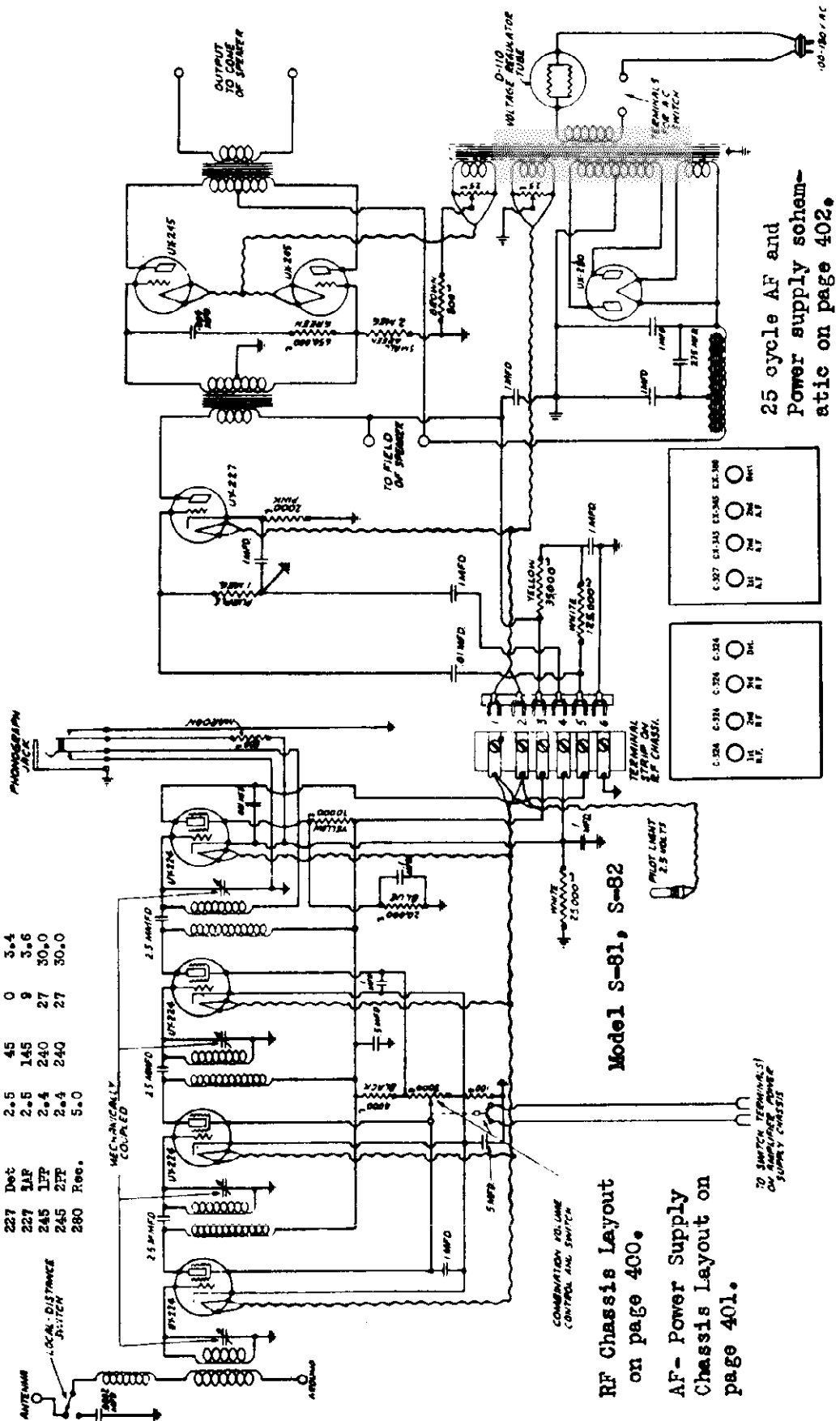
C-327	<input type="radio"/>	1st R.F.
C-327	<input type="radio"/>	2nd R.F.
C-327	<input type="radio"/>	3rd R.F.
C-327	<input type="radio"/>	Det.
C-327	<input type="radio"/>	1st A.F.
CX-345	<input type="radio"/>	2nd A.F.
CX-345	<input type="radio"/>	2nd A.F.
CX-345	<input type="radio"/>	Rect.

BREMER-TULLY MFG. CO

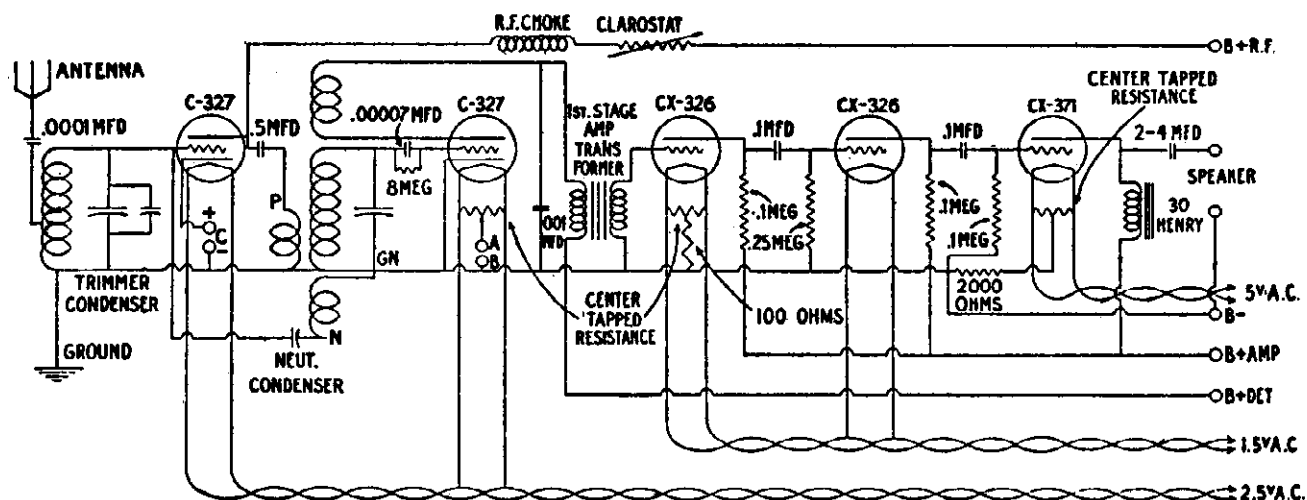
MODEL S-81, S-82

A B C Plate Current

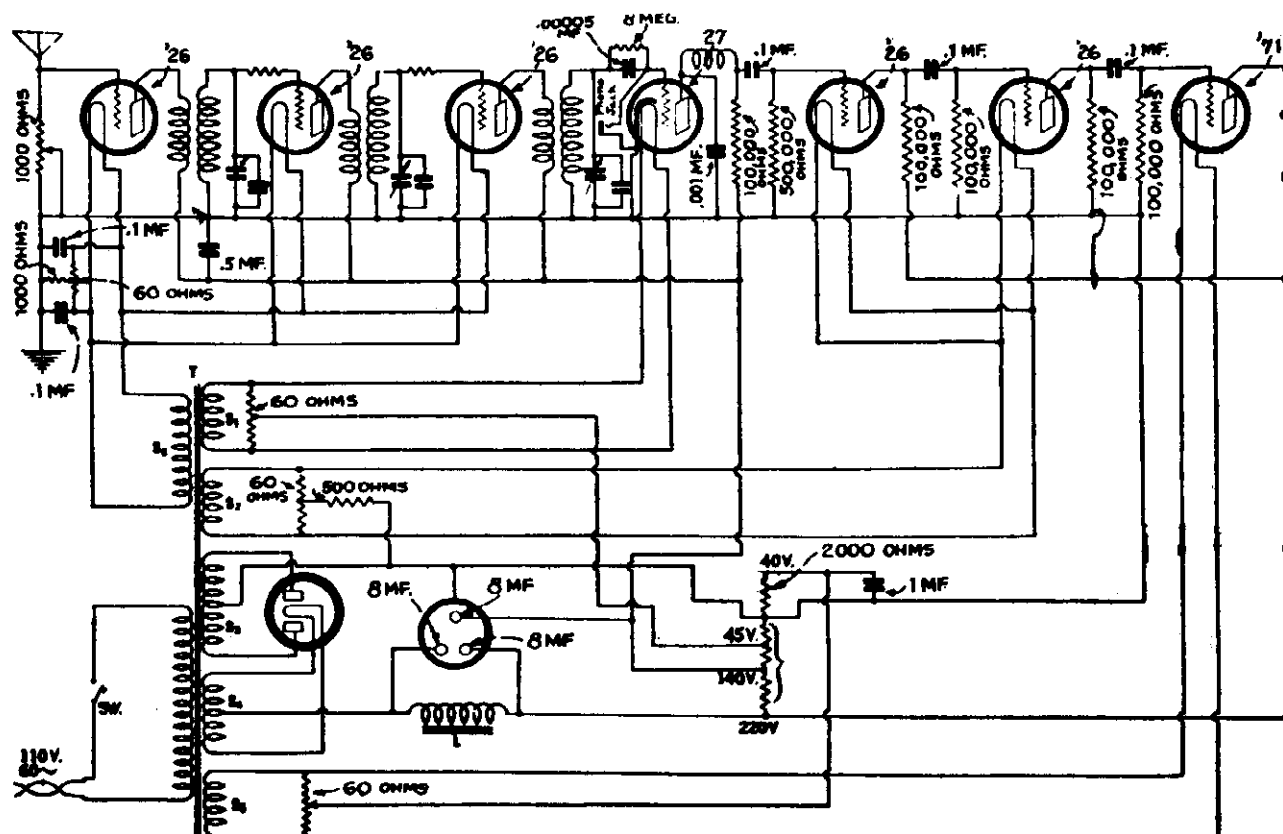
227 1RF	2.5	150	12	5.5 mA
227 2RF	2.5	150	12	5.5
227 3RF	2.5	150	12	5.5
227 Det	2.5	45	0	3.4
227 1AF	2.5	145	9	3.6
245 1FP	2.4	240	27	30.0
245 2FP	2.4	240	27	30.0
280 Reg.	5.0			



BROWNING - DRAKE CORP.

MODEL 5 Tube AC Kit
MODEL 34, 36, 38

THE SCHEMATIC WIRING OF THE FIVE TUBE A-C

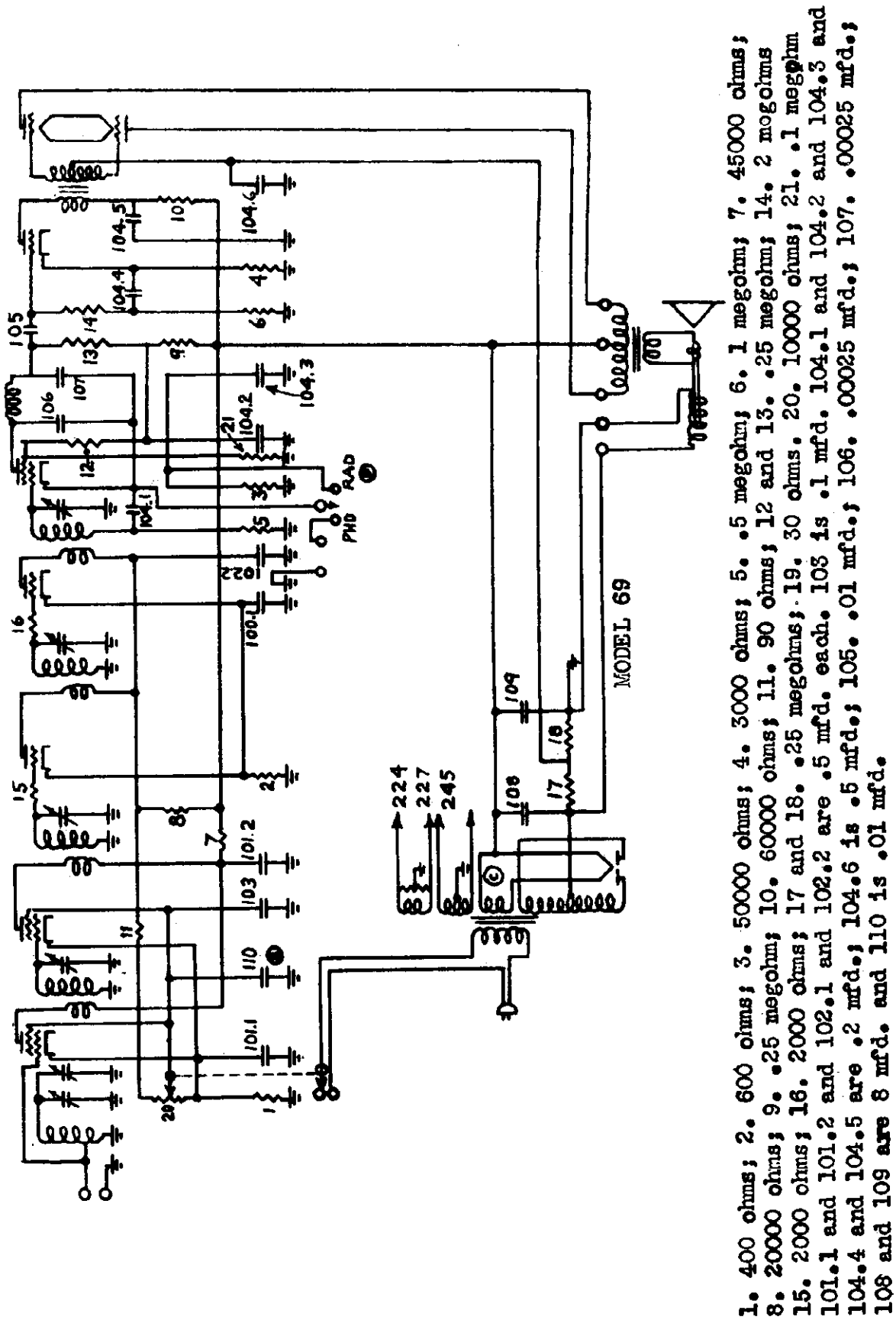


BROWNING DRAKE

34, 36 and 38

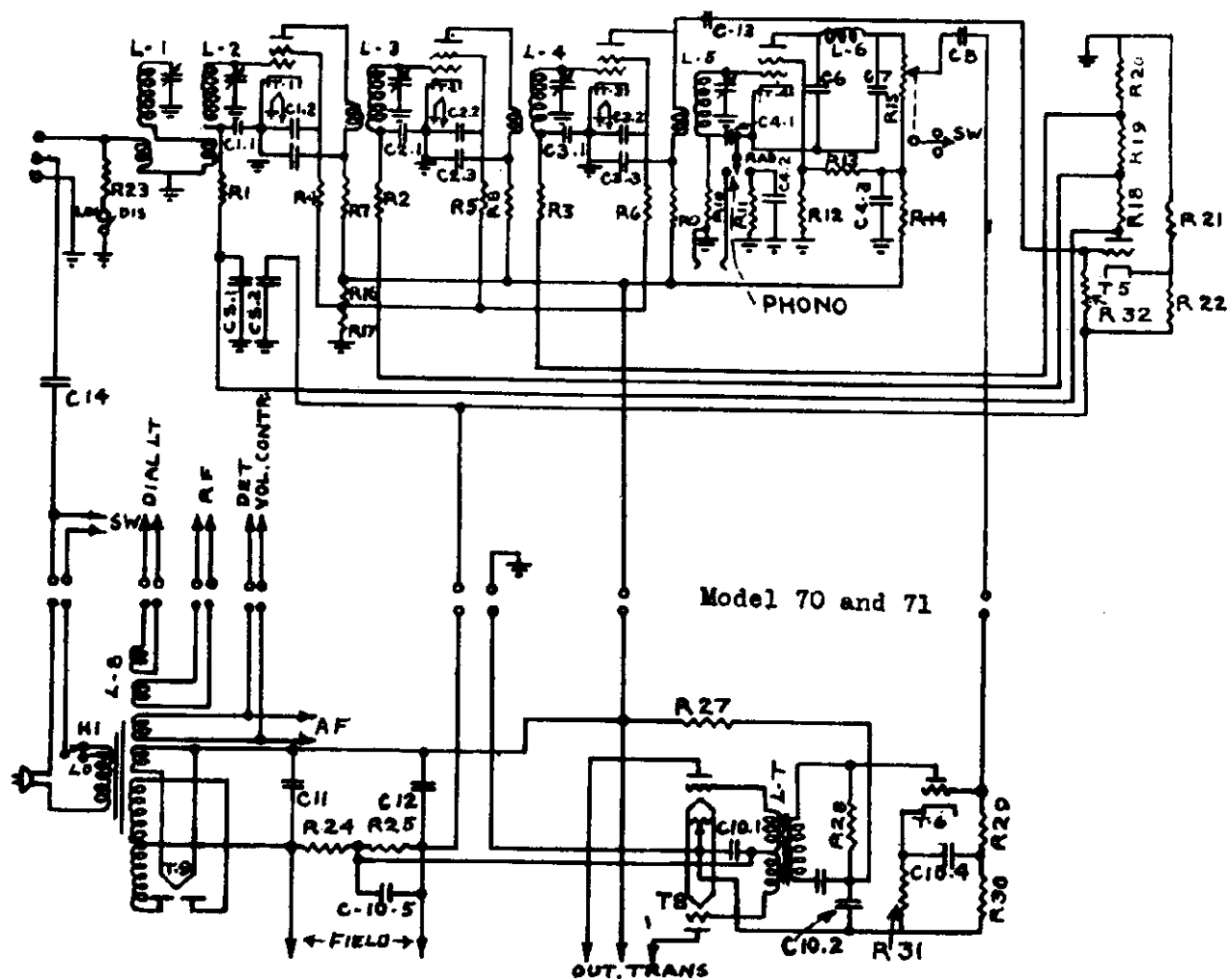
MODEL 69

BROWNING - DRAKE CORP.



BROWNING - DRAKE CORP.

MODEL 70, 71

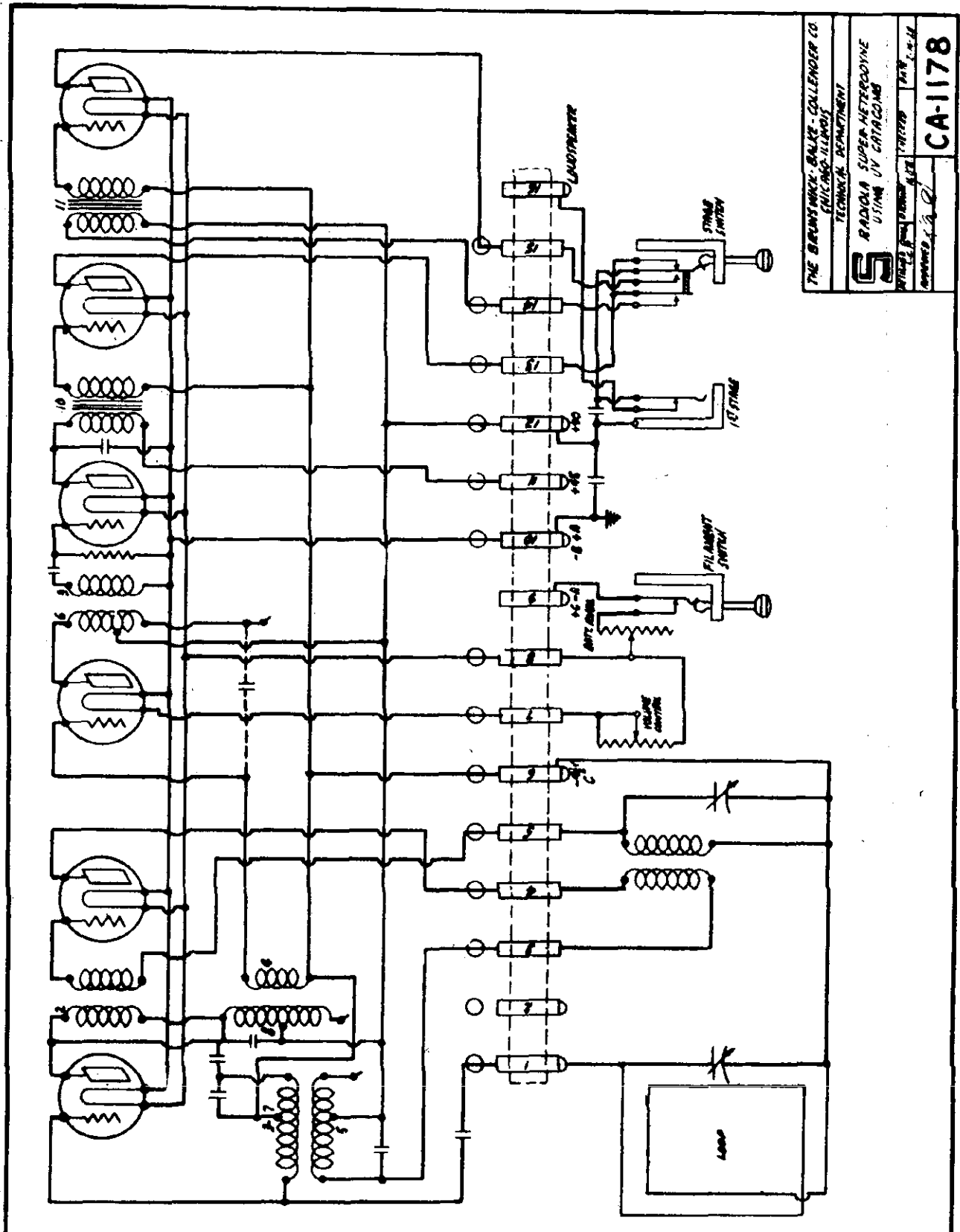


R1, R2, R3, R14, R15 .25 megohm
 R4, R5, R6 10000 ohms
 R7, R8, R9 20000 ohms
 R10, R29 1 megohm
 R11, R18, R19 40000 ohms
 R12 .1 megohm
 R13 .25 megohm
 R16 40000 ohms
 R17 90000 ohms
 R20 200000 ohms
 R21 500 ohms
 R22 45 ohms
 R23, R26 20 ohms
 R24 .5 megohm
 R25 .15 megohm
 R27 10000 ohms

R28 20000 ohms
 R30, R32 2 megohms
 R31 2000 ohms
 C1.1; C2.1; C3.1; C1.2; C2.2; C3.2 .1 mfd
 C1.3; C2.3; C3.3 .1 mfd
 C4.1; C4.2 .1 mfd.
 C4.3 .25 mfd
 C5.1; C5.2 1. mfd
 C6, C7, C13 .00025 mfd
 C8 .01 mfd.
 C10.1 .25 mfd
 C10.2 .5 mfd
 C10.3 .1 mfd
 C10.4 .2 mfd
 C10.5 2. mfd
 C14 .00025 mfd

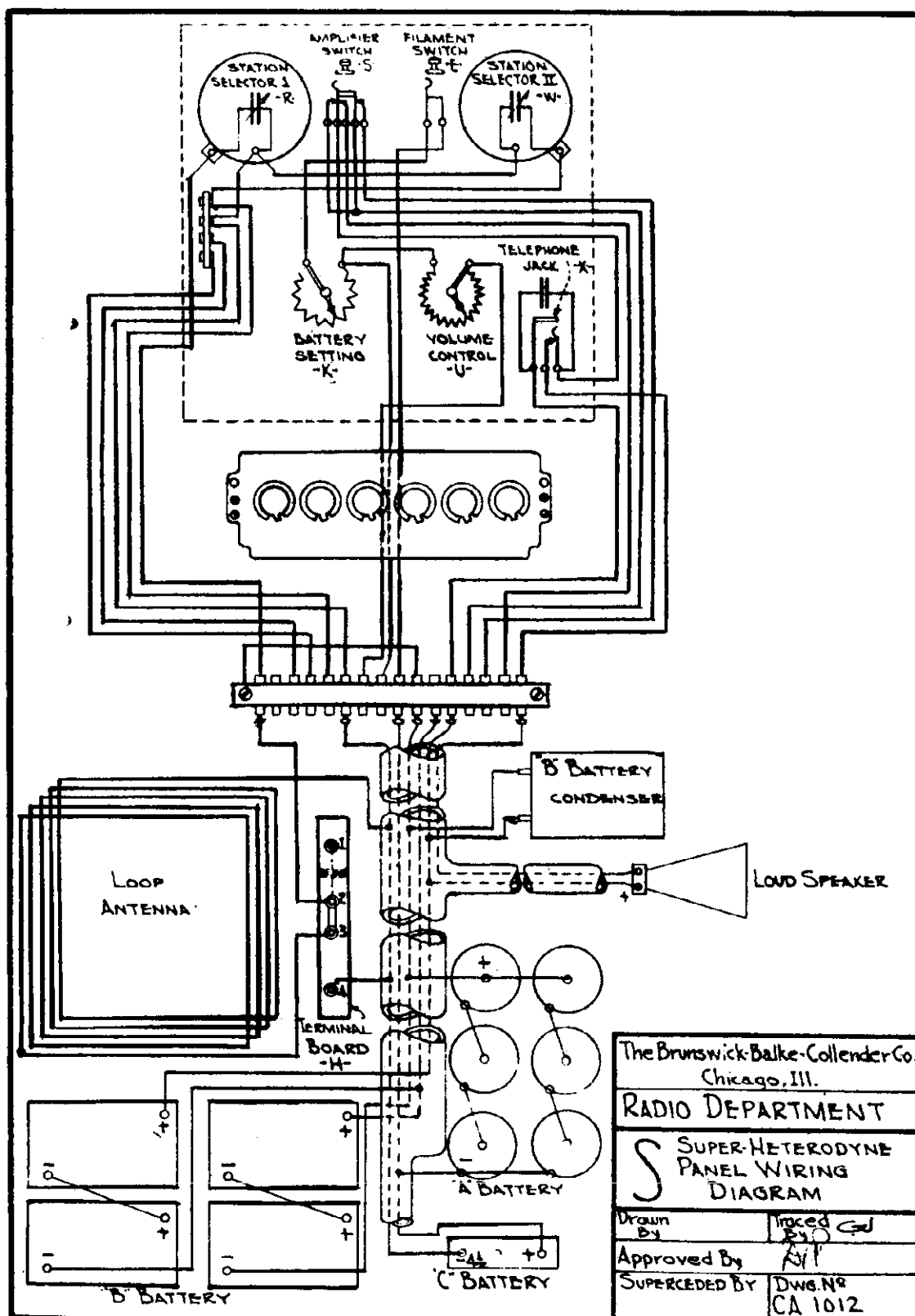
BRUNSWICK RADIO CORPORATION

MODEL Radiola
Superheterodyne
with UV Catacomb



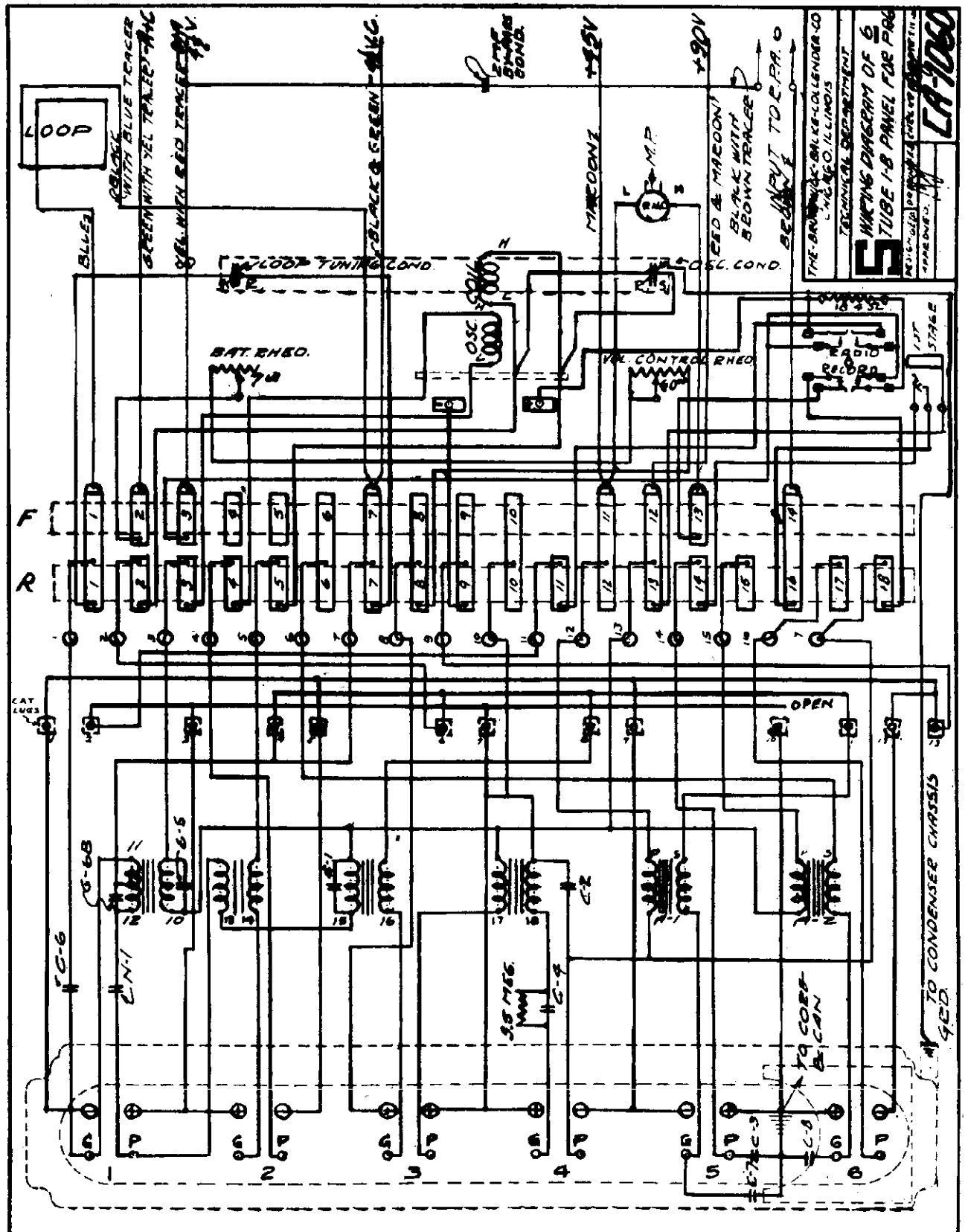
MODEL Superheterodyne
Panel Wiring

BRUNSWICK RADIO CORPORATION



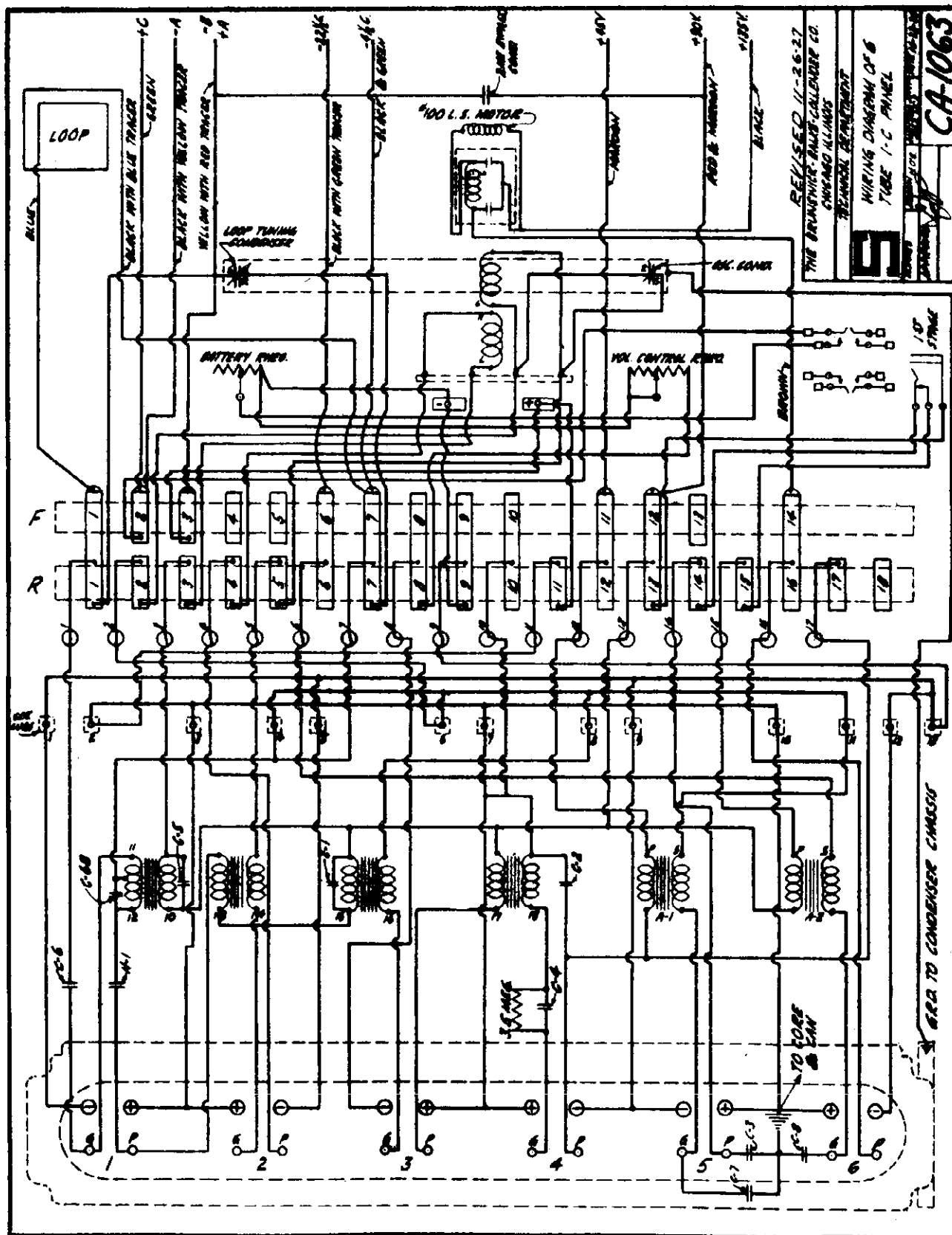
The Brunswick-Balke-Collender Co. Chicago, Ill.	
RADIO DEPARTMENT	
S SUPER-HETERODYNE PANEL WIRING DIAGRAM	
Drawn By	Traced By
Approved By	AS/P
SUPERCEDED BY	DWG. NO. CA 1012

MODEL PR-6
6 Tube 1-B Panel.

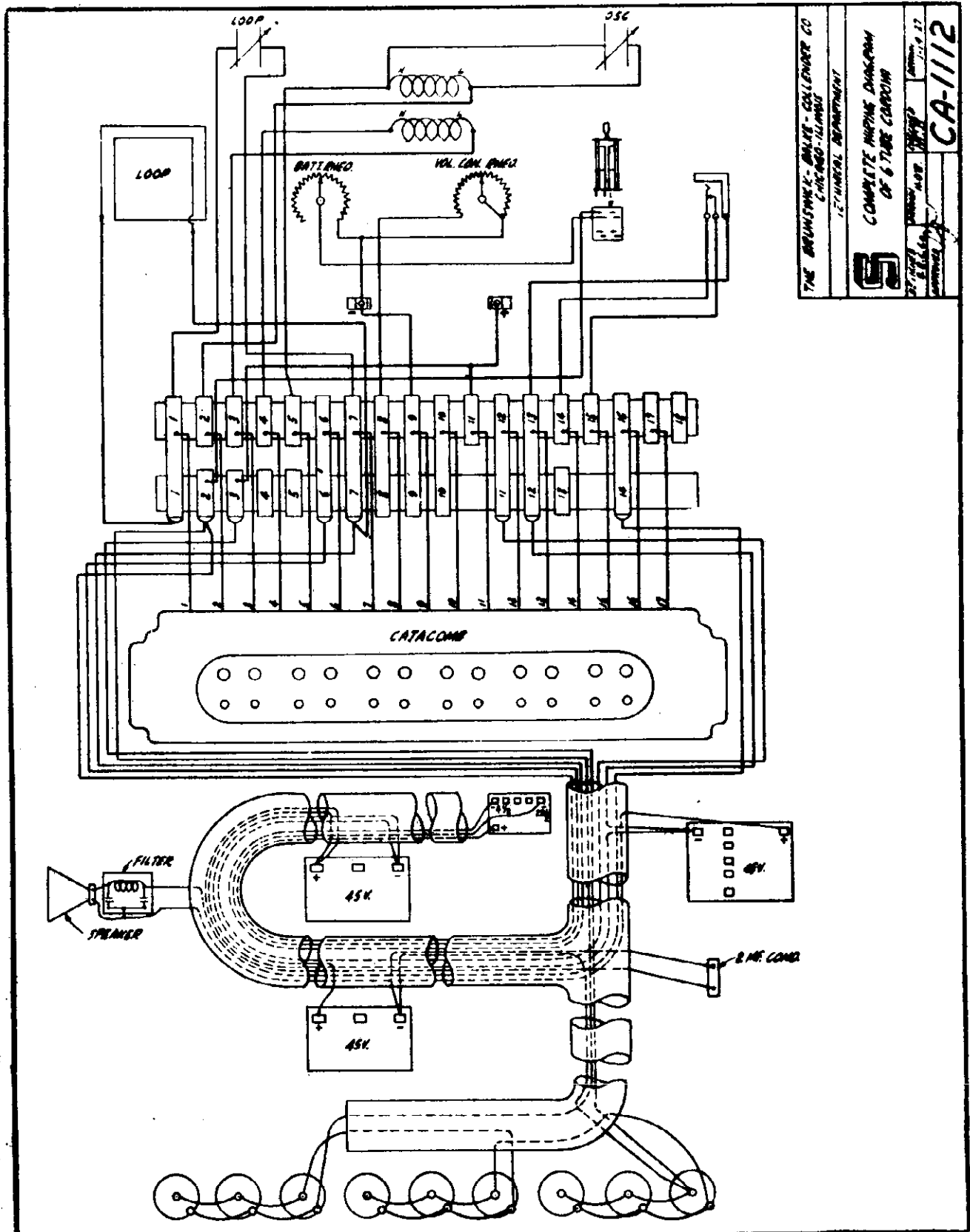


MODEL PR-6
6 Tube 1-C
Panel

BRUNSWICK RADIO CORPORATION



BRUNSWICK RADIO CORPORATION

MODEL 6 Tube
Cordova

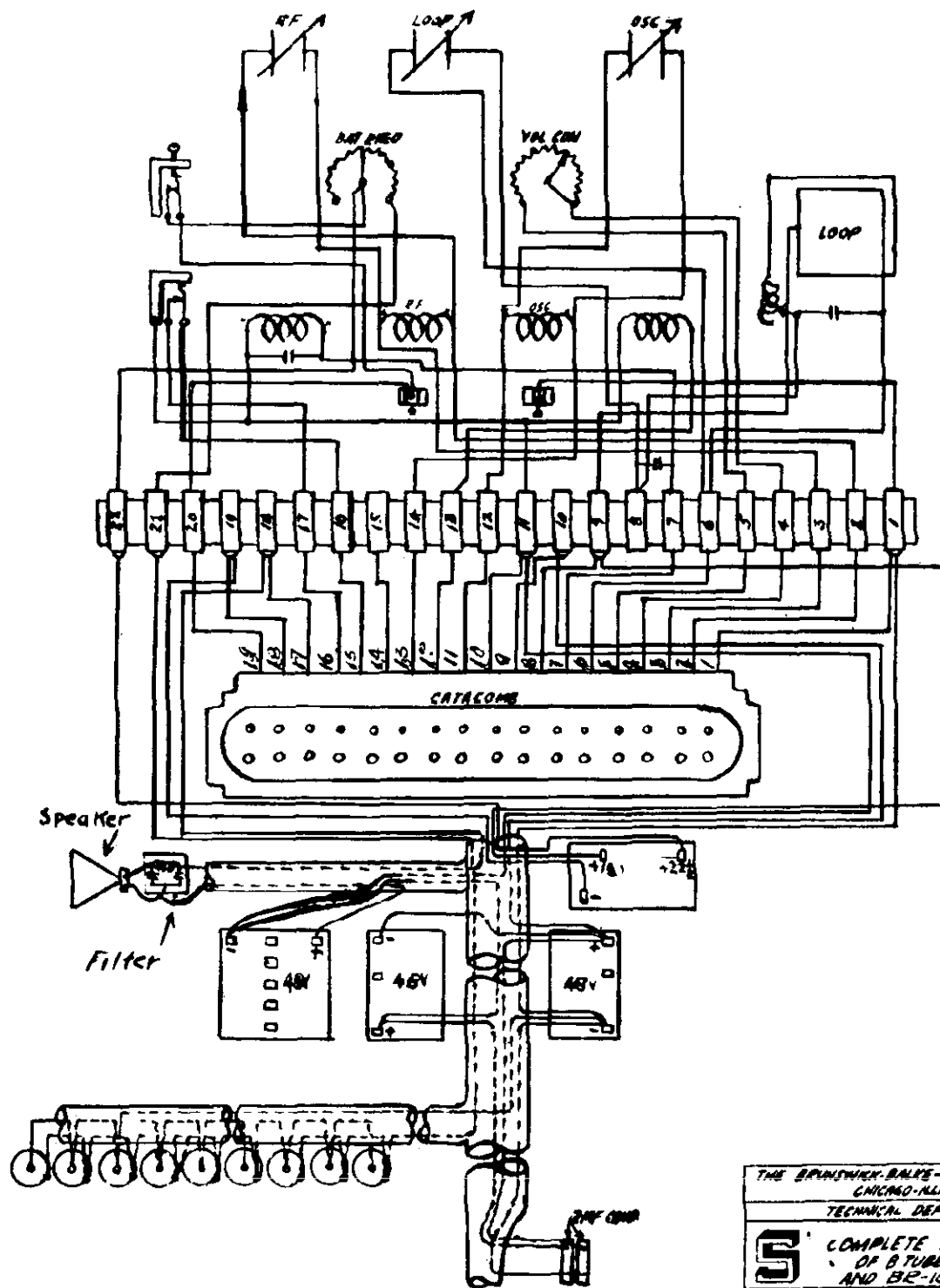
THE BRUNSWICK-BALKE-CLARK CO.
CHICAGO-ILLINOIS
ELECTRICAL DEPARTMENT

COMPLETE WIRING DIAGRAM
OF 6 TUBE CORDOVA

Model 6 Tube Cordova
CA-1112

MODEL 8 Tube
Cordova

BRUNSWICK RADIO CORPORATION



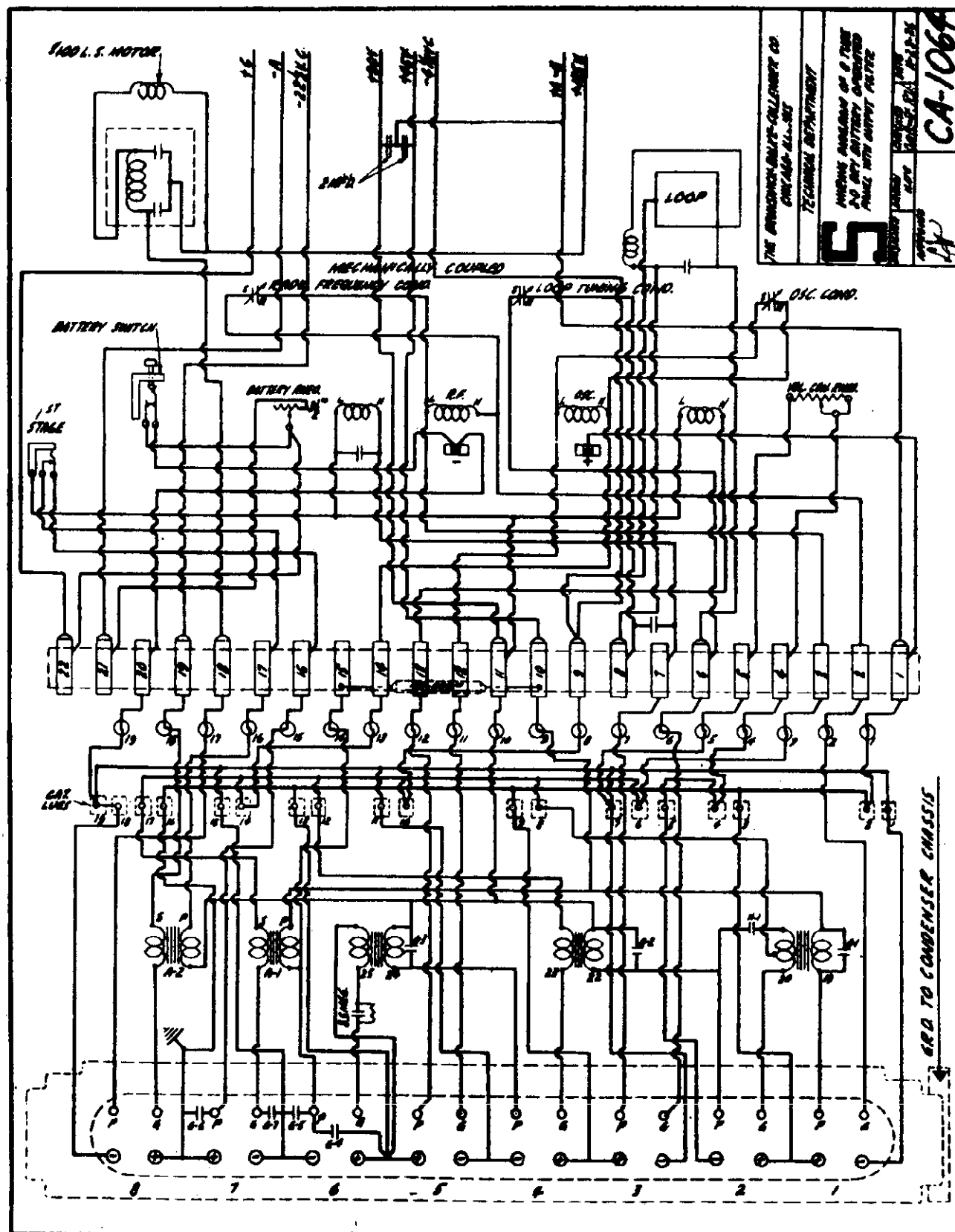
THE BRUNSWICK-BALKE-COLLIER CO.
CHICAGO-ILLINOIS
TECHNICAL DEPARTMENT

S COMPLETE WIRING DIAGRAM
OF 8 TUBE CORDOVA
AND BR-19 CABINETS.

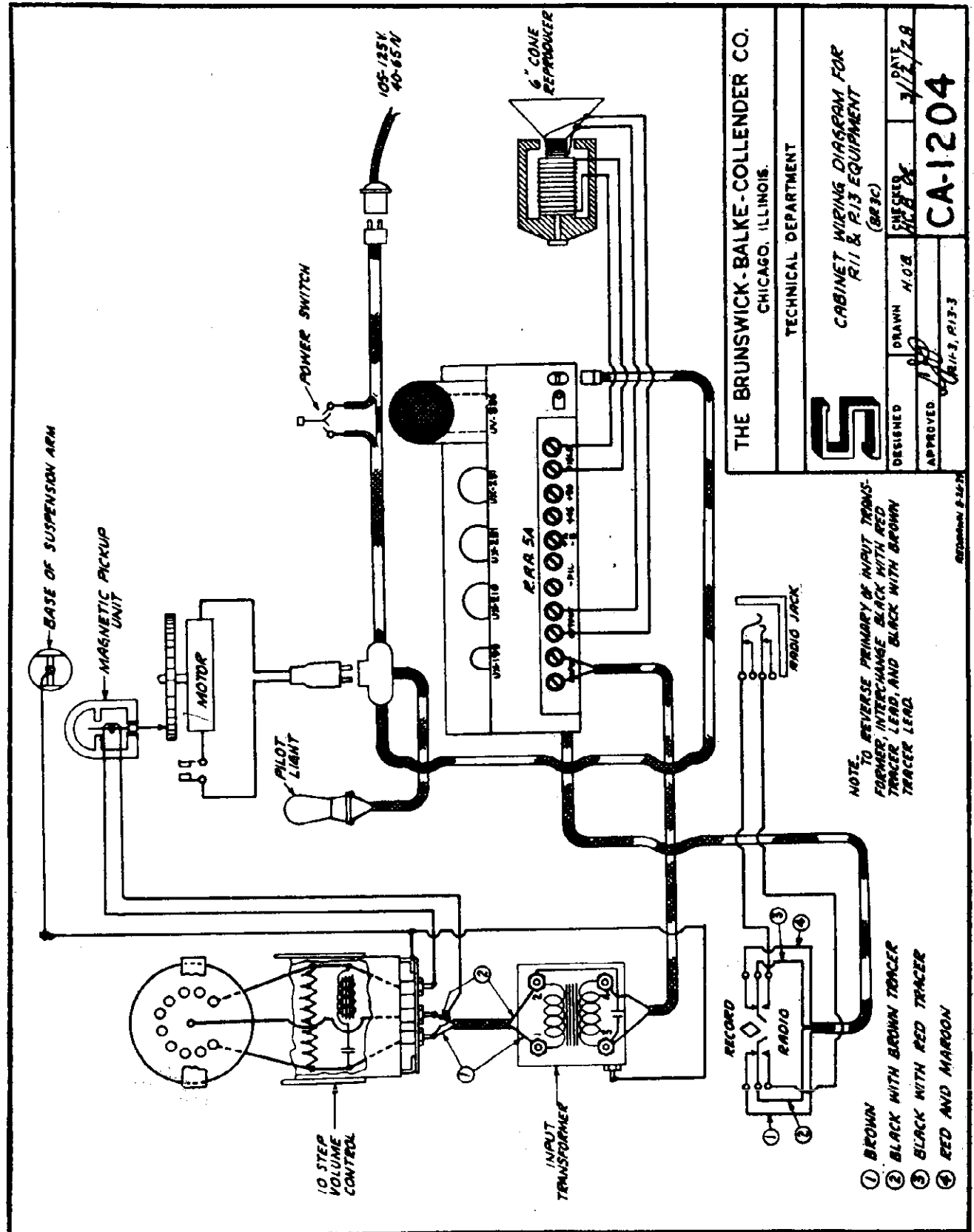
DESIGNED BY J. H. HOBBS
CHECKED BY J. H. HOBBS
APPROVED BY J. H. HOBBS

NOV 1927
1-10-27
CA-1111

BRUNSWICK RADIO CORPORATION

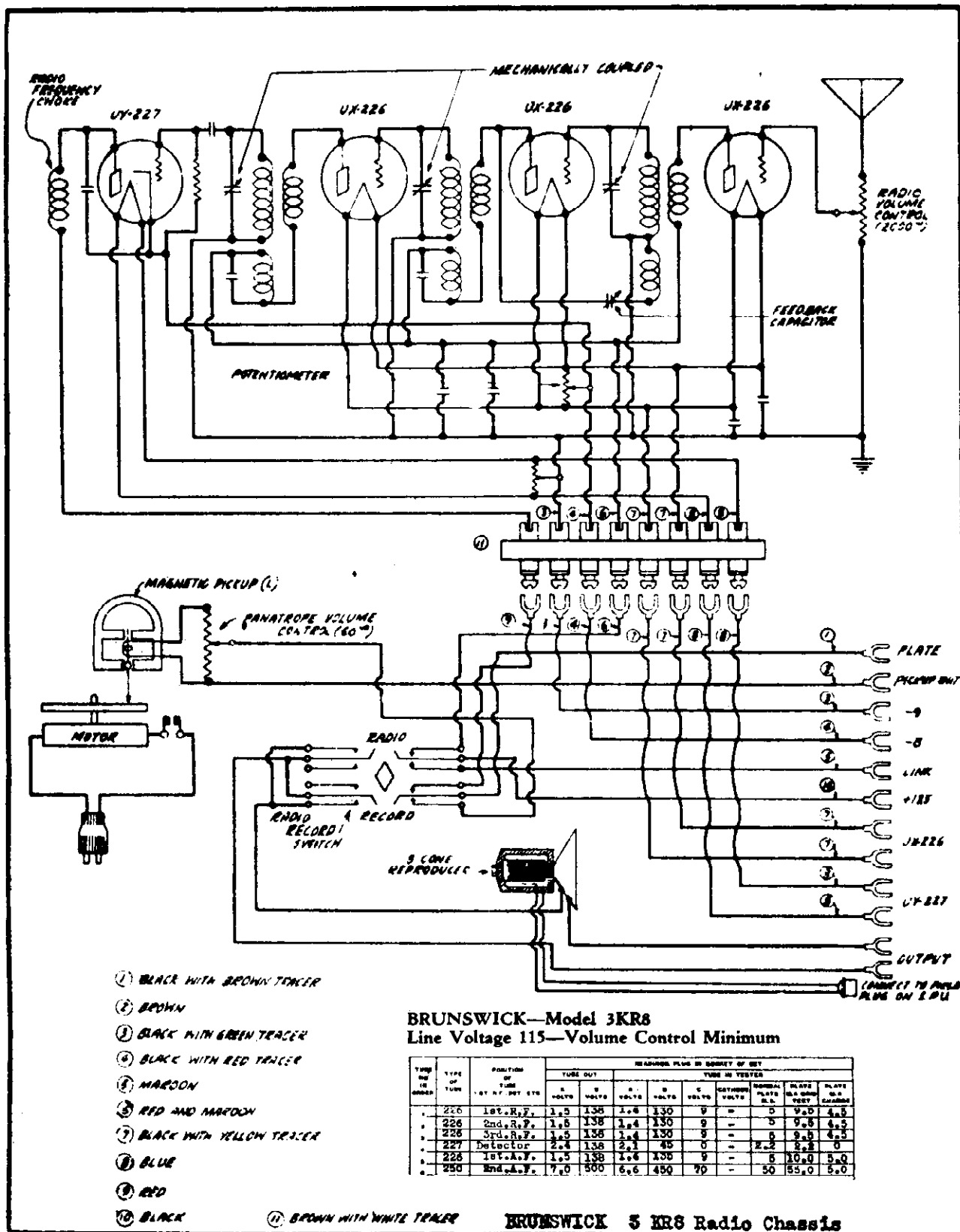
MODEL 8 Tube
2-D Battery

BRUNSWICK RADIO CORPORATION

MODEL P-11, P-13
Cabinet Wiring

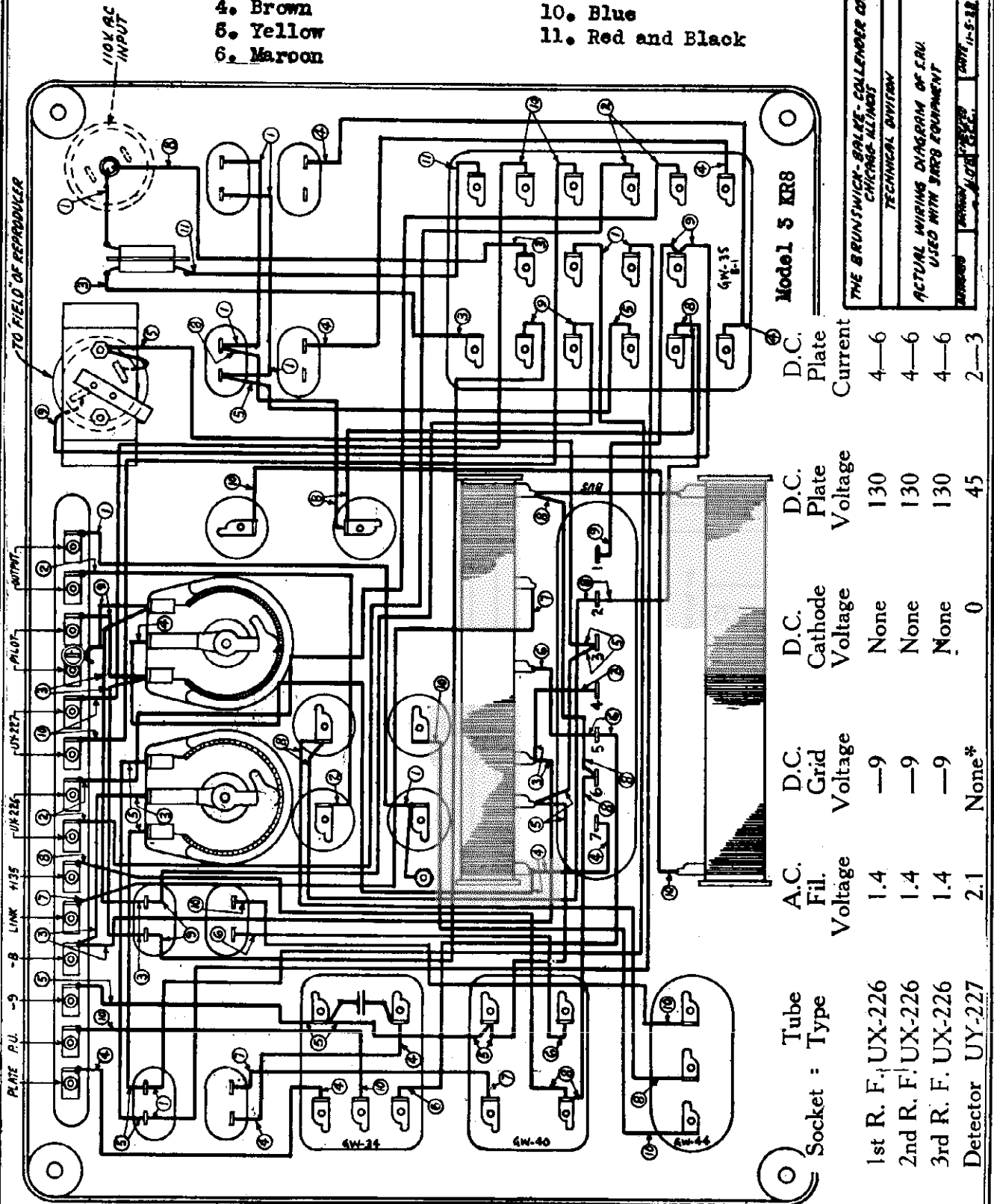
MODEL 3 KR8
RF Schematic

BRUNSWICK RADIO CORPORATION



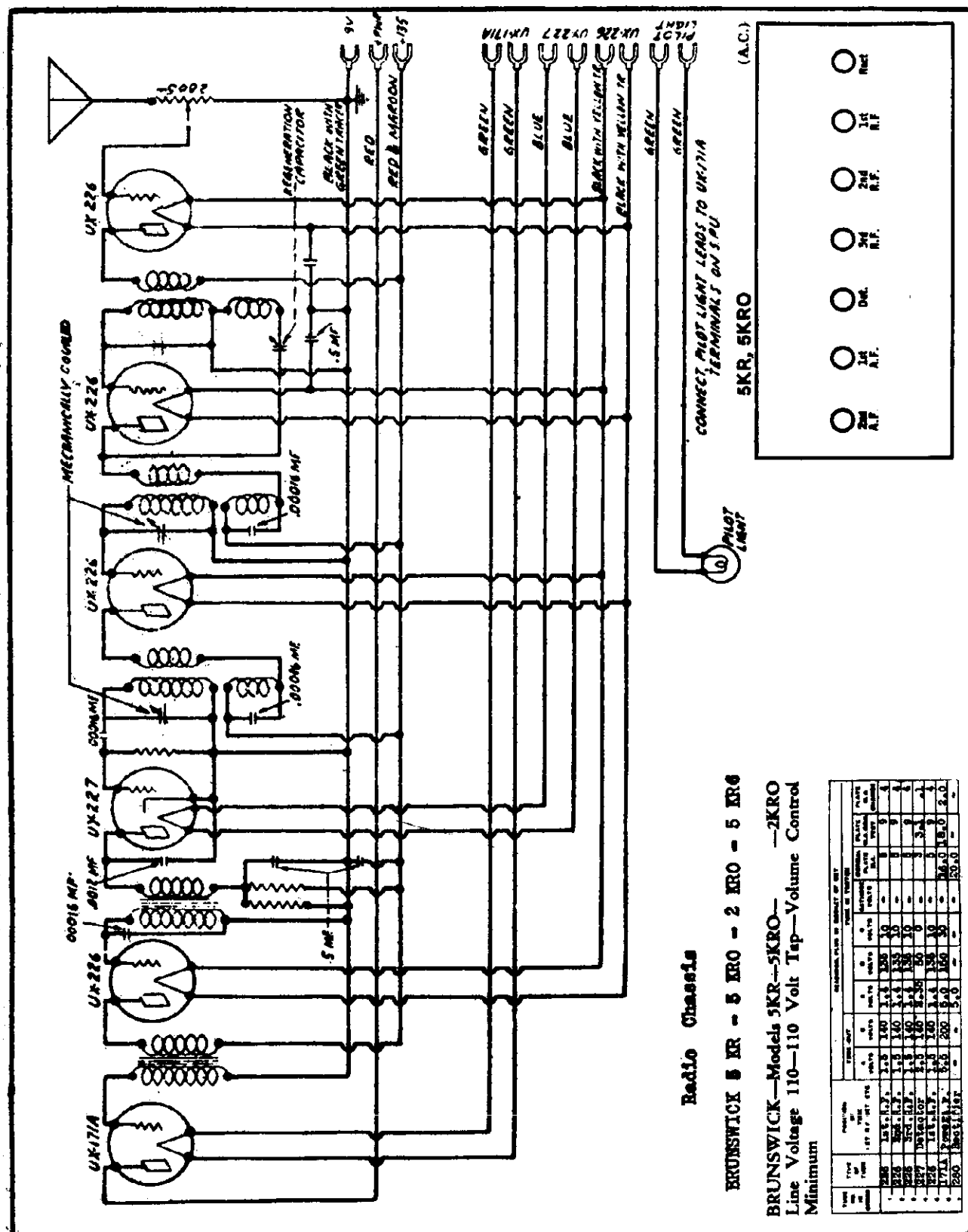
MODEL 3 KR8
SPU Chassis
BRUNSWICK RADIO CORP.

- | | |
|-----------------------------|-------------------|
| 1. Black | 7. Maroon and Red |
| 2. Black with Yellow Tracer | 8. Red |
| 3. Black with Red Tracer | 9. Green |
| 4. Brown | 10. Blue |
| 5. Yellow | 11. Red and Black |
| 6. Maroon | |

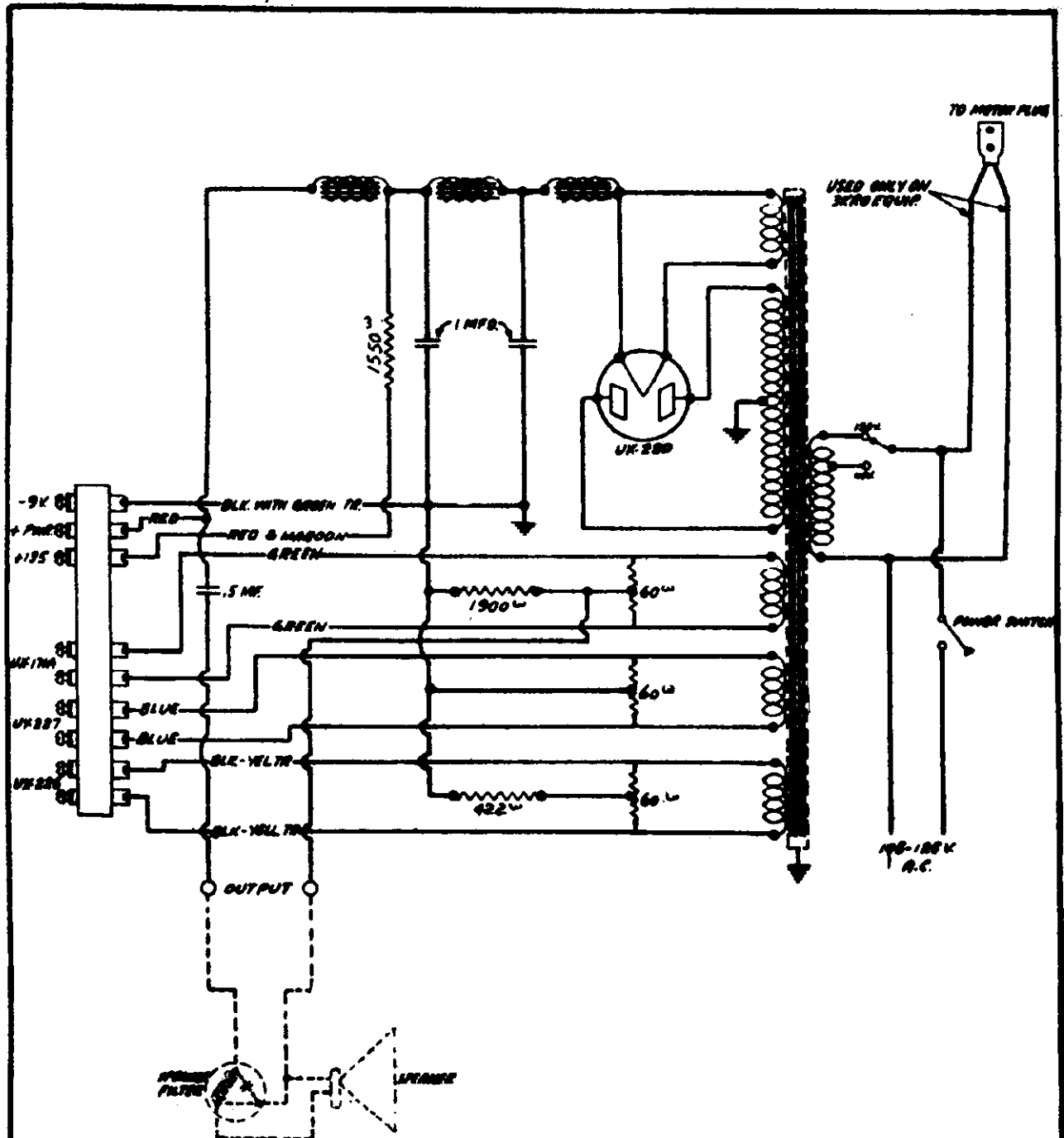


MODEL 5 KR,
5 KRO, 5 KR6
2 KRO RF Schematic

BRUNSWICK RADIO CORP.



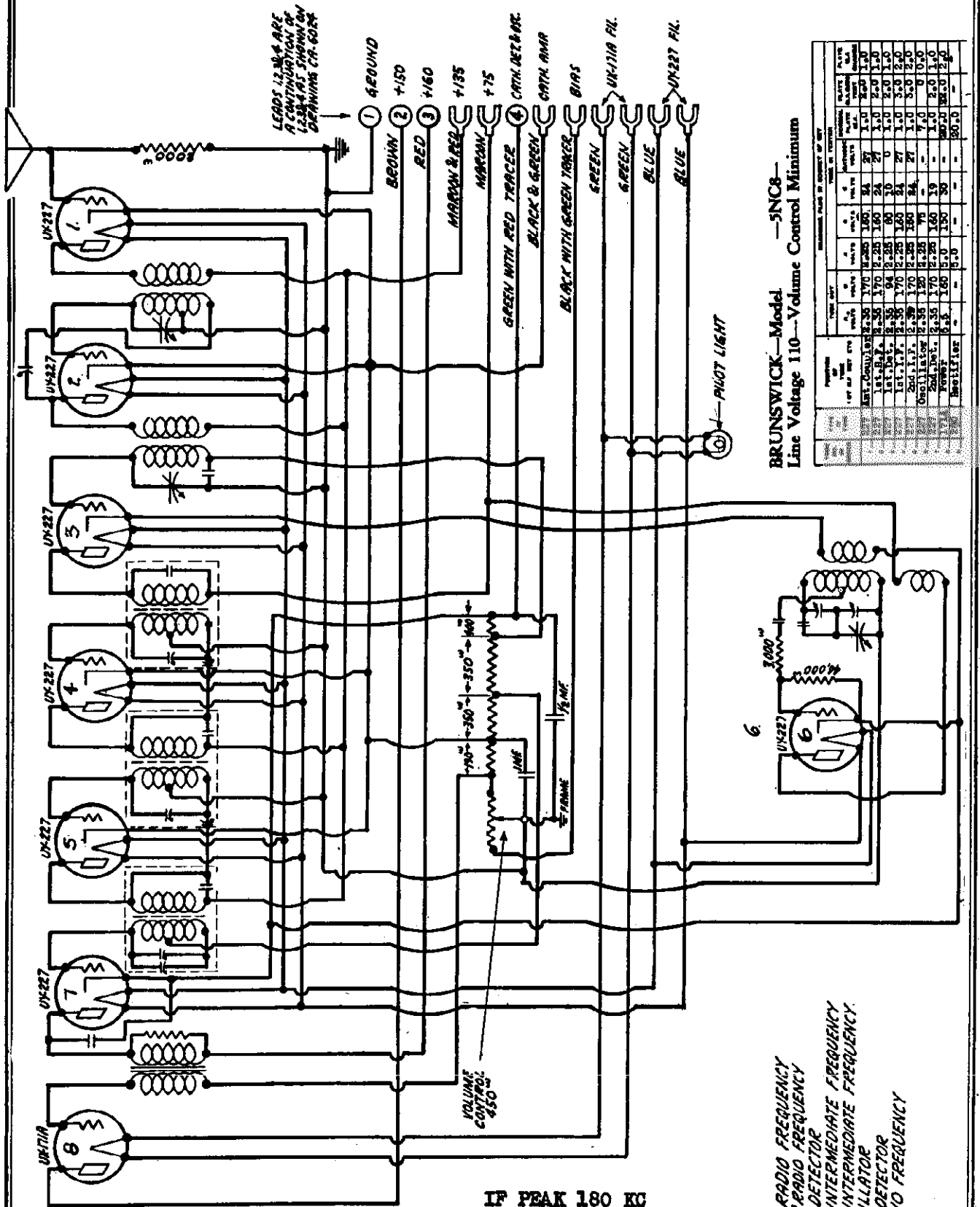
Model 5 KR, 5 KRO, 2 KRO, 3 KRO SPU.



THE BRUNSWICK-BALKE-COLENDER CO.		
CHICAGO-ILLINOIS		
TECHNICAL DIVISION		
ACTUAL WIRING DIAGRAM OF SPV X300		
(USED WITH SNO EQUIP)		
EXTENSION	WIRING	DATE
	ALICE J. S. HARRIS	8-17-28

(A) RED
 (B) MAROON AND RED
 (C) MAROON
 (D) RED AND BLACK
 (E) GREEN
 (F) GREEN WITH RED TRACER
 (G) BLACK
 (H) BLACK WITH GREEN TRACER
 (I) BLACK WITH RED TRACER
 (J) BLACK AND BROWN
 (K) BLACK AND GREEN
 (L) BROWN
 (M) BLUE
 (N) YELLOW

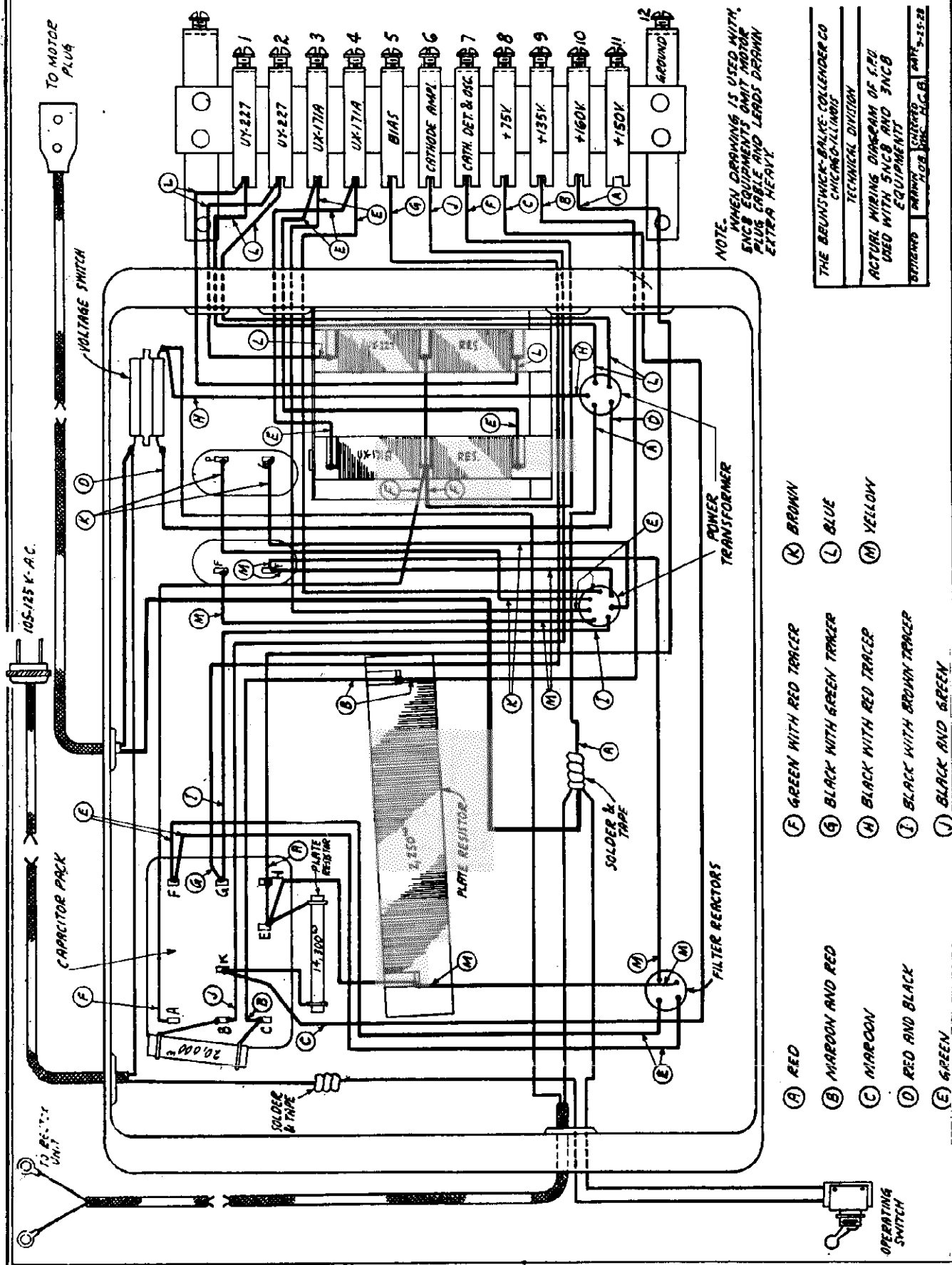
BRUNSWICK RADIO CORP.

MODEL 5 NC8
Radio Schematic

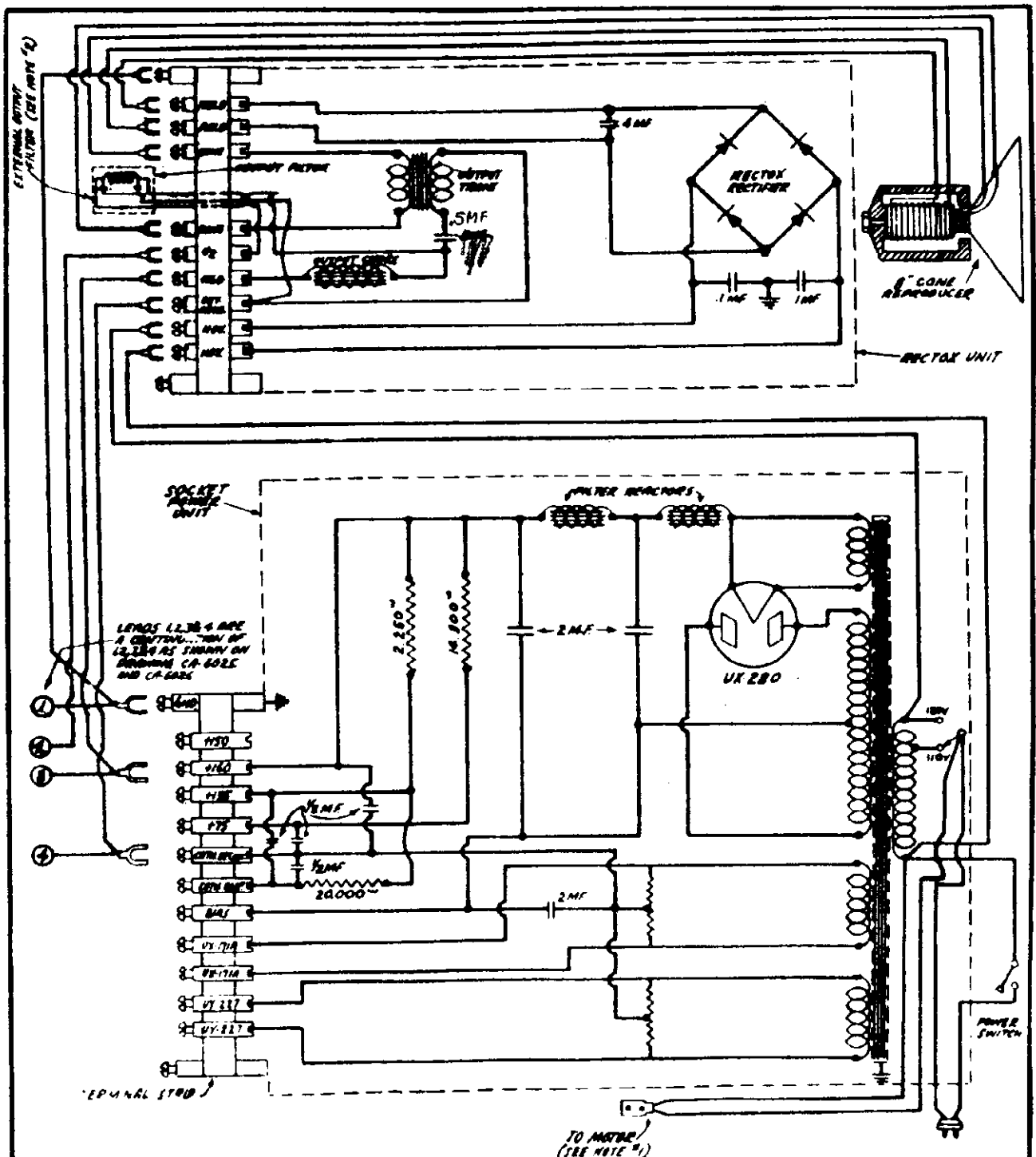
1. 1ST RADIO FREQUENCY
2. 2ND RADIO FREQUENCY
3. 1ST DETECTOR
4. 1ST INTERMEDIATE FREQUENCY
5. 2ND INTERMEDIATE FREQUENCY
6. OSCILLATOR
7. 2ND DETECTOR
8. AUDIO FREQUENCY

MODEL 3 NC8, 5 NC8
Audio Chassis

BRUNSWICK RADIO CORP.



BRUNSWICK RADIO CORP.

MODEL 3 NC8, 5 NC8
Audio Schematic

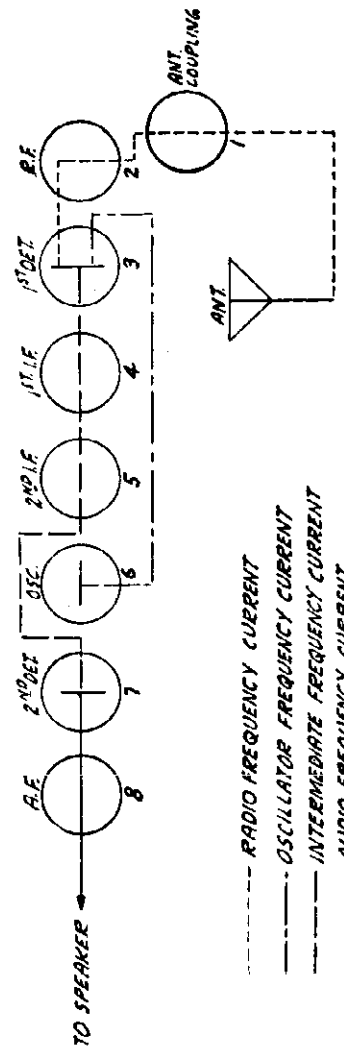
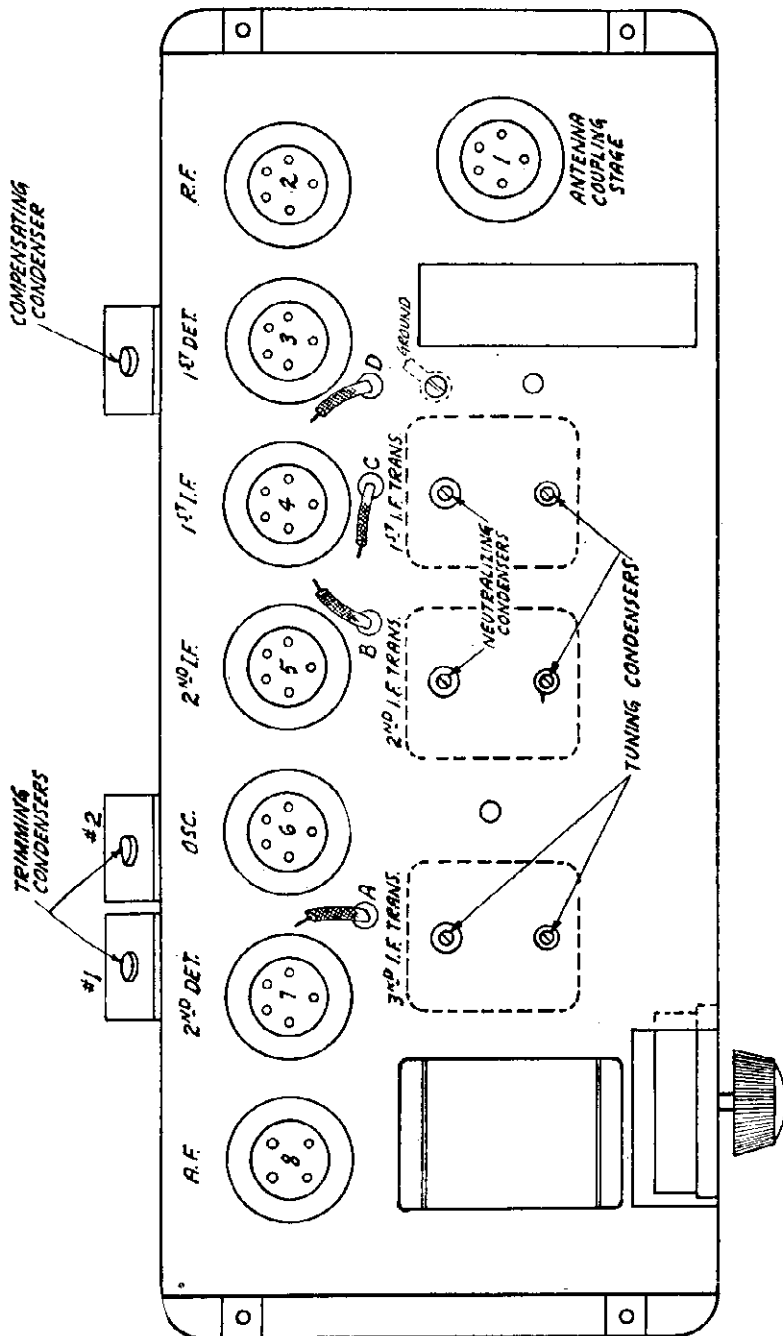
Model 3 NC8, 5 NC8 Audio Schematic

NOTE:

1. MOTOR PLUG AND LEADS NOT USED WITH 5 PU FOR SMC EQUIPMENT
2. EXTERNAL OUTPUT FILTER IS USED ONLY ON THE SMC EQUIPMENTS

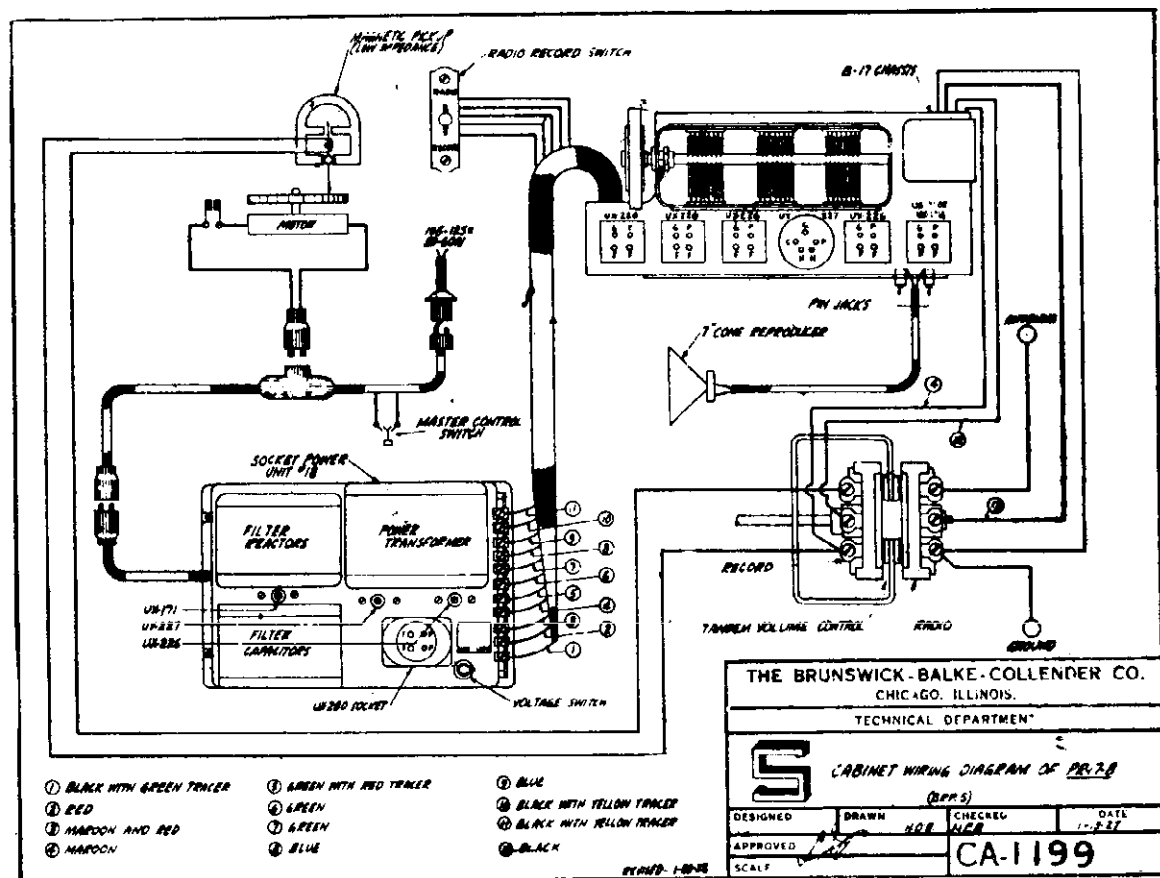
MODEL 5 NO. 5 NC8,
3 NC8
Trimmer Locations

BRUNSWICK RADIO CORP.



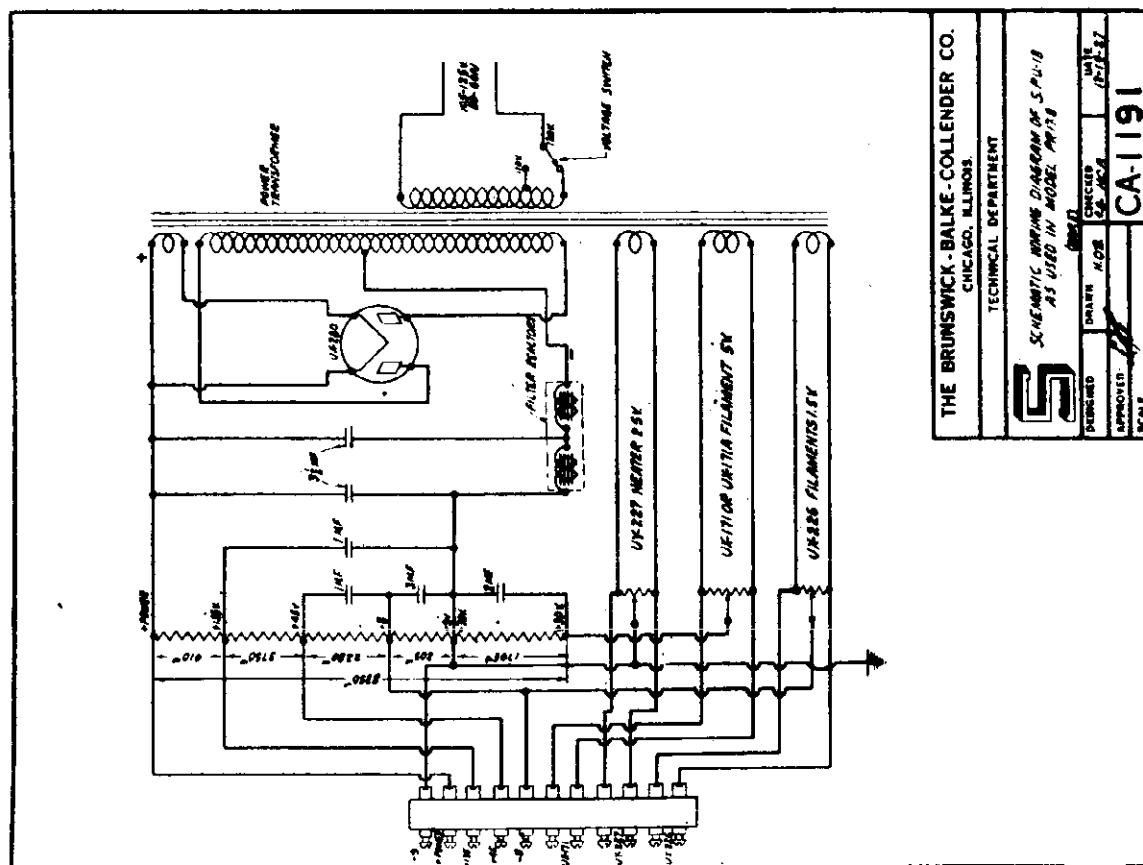
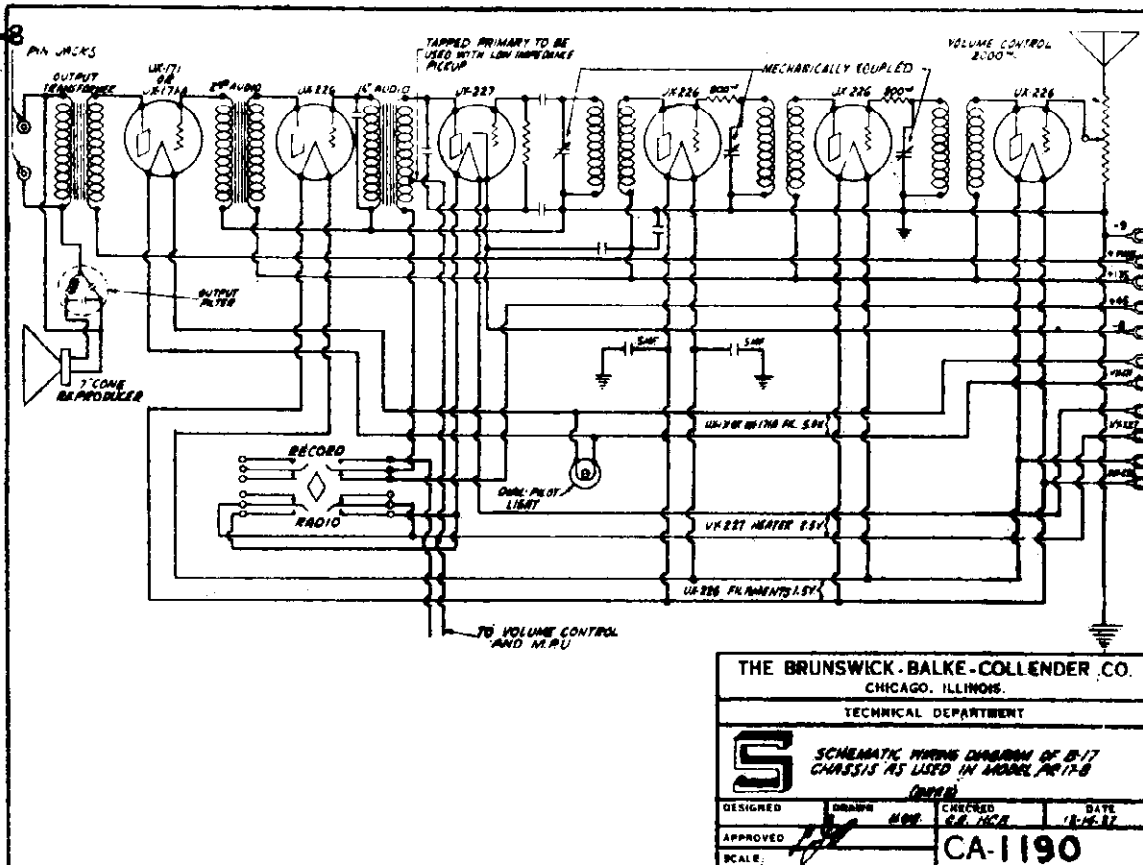
THE BRUNSWICK-BALKE-COLLENDER CO. CHICAGO ILLINOIS.			
TECHNICAL DEPARTMENT			
LOCATION OF ADJUSTING CONDENSERS ON 5NO, 5NC8 & 3NC8 EQUIPMENTS			
DESIGNED	DRAWN	CHECKED	DATE
	HOB	HOB	10-10-28
APPROVED:	SCALE		
CA-6039			

REVISED 11-12-28
REVISED 10-26-28

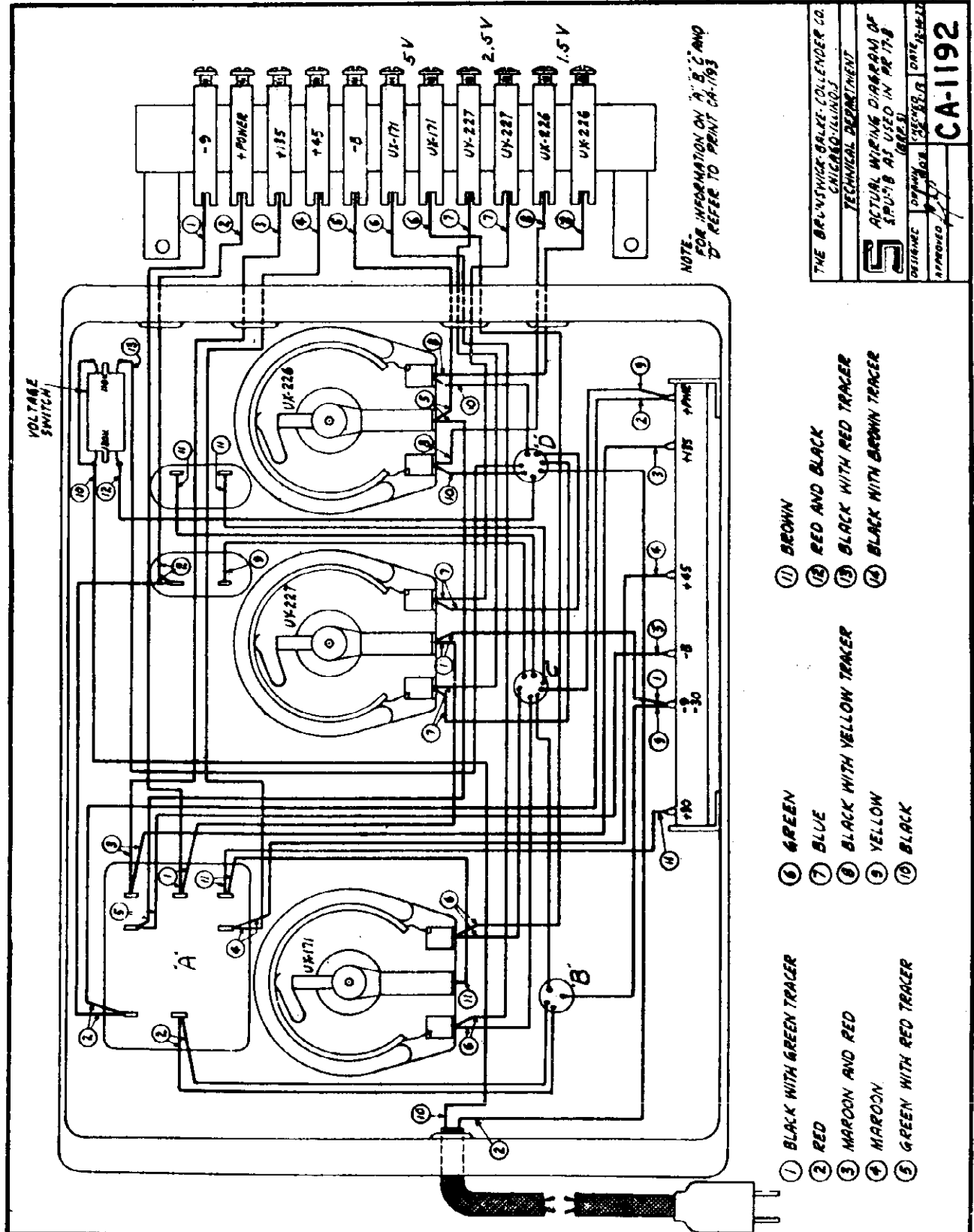


MODEL B-17
MODEL SPU 18
For
PR-17-8

BRUNSWICK RADIO CORPORATION

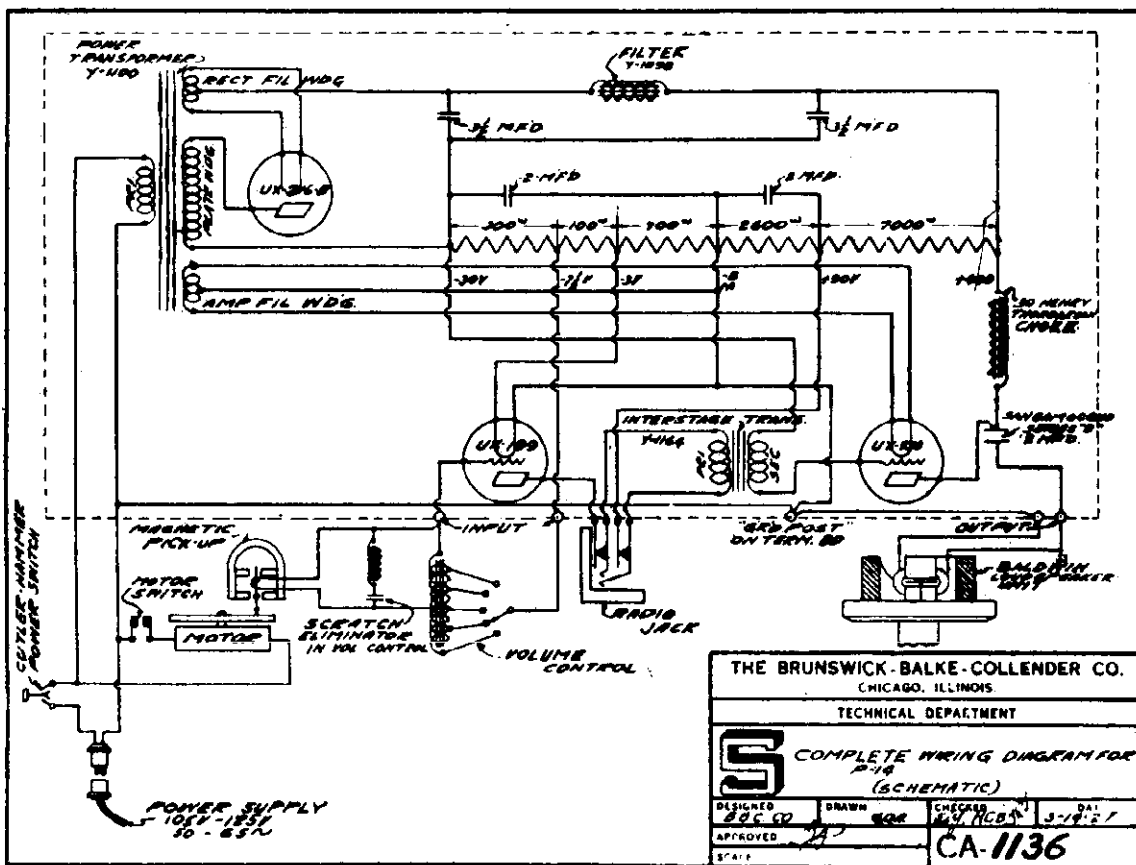
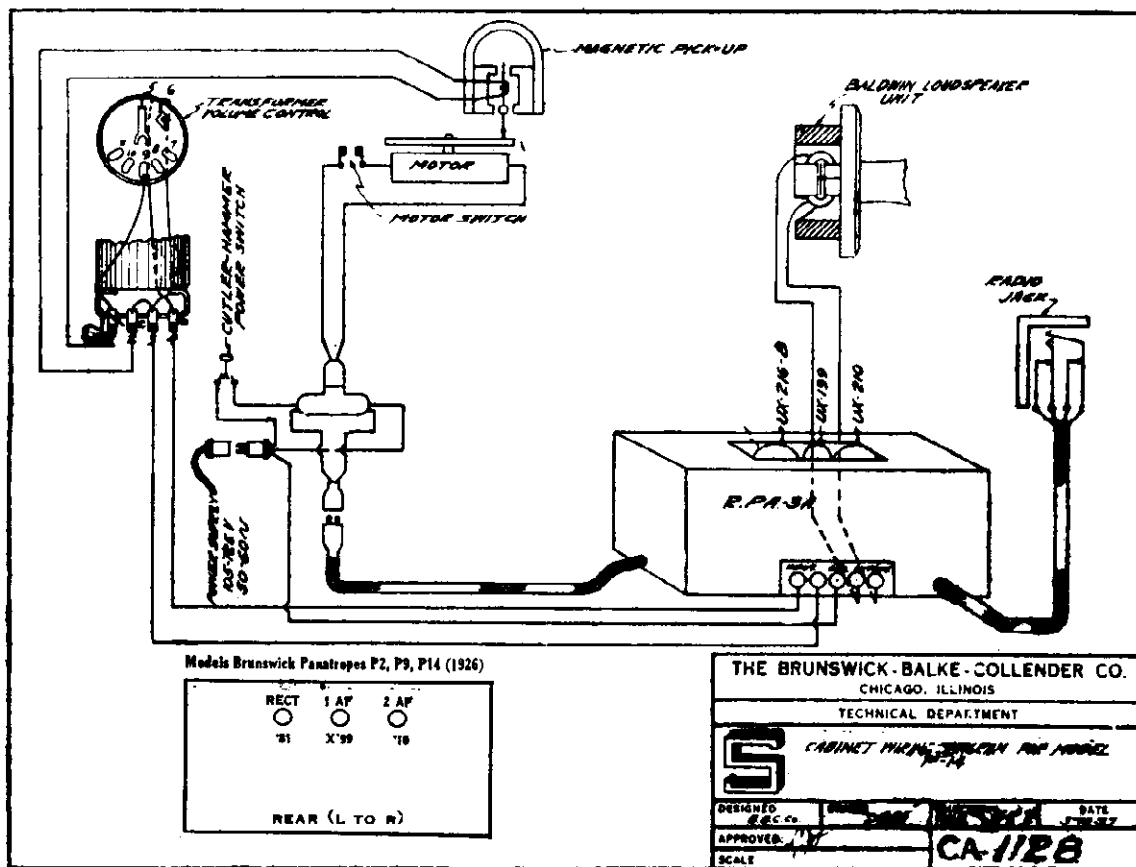


BRUNSWICK RADIO CORPORATION

MODEL SPU-18
Chassis for PR-17

MODEL P-14

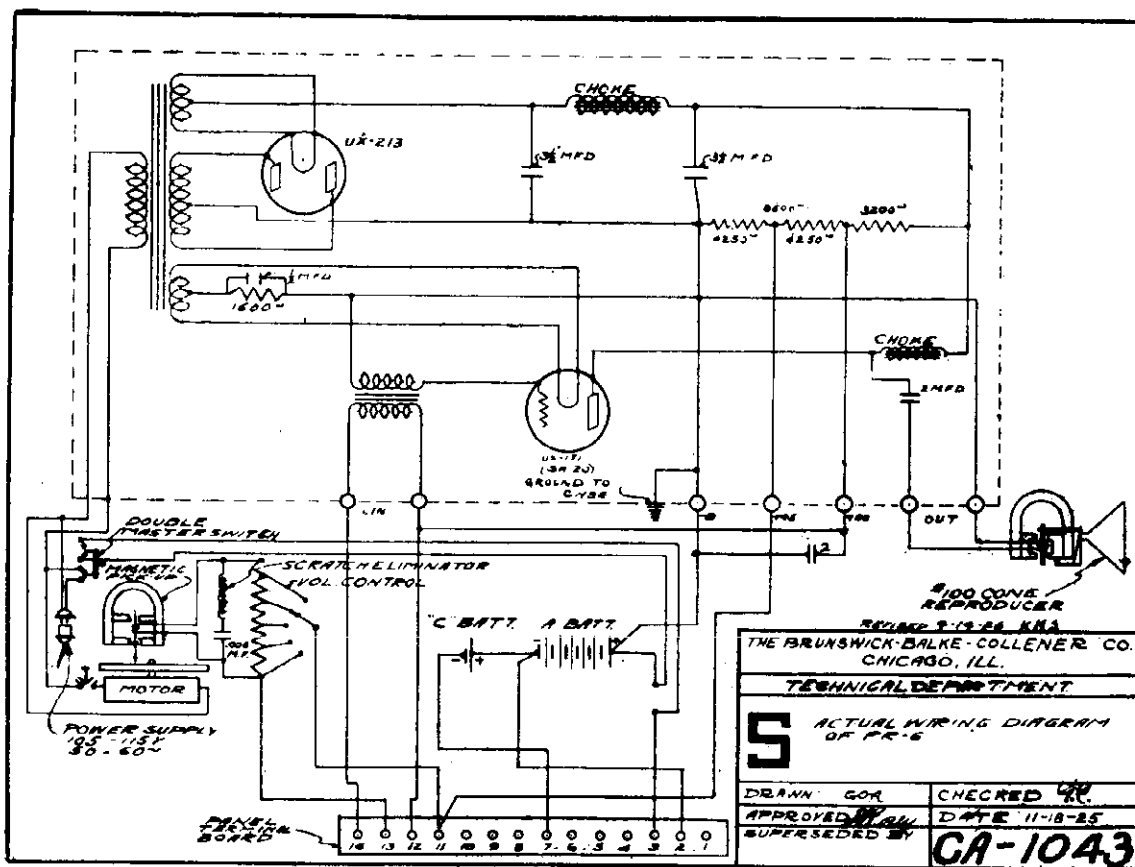
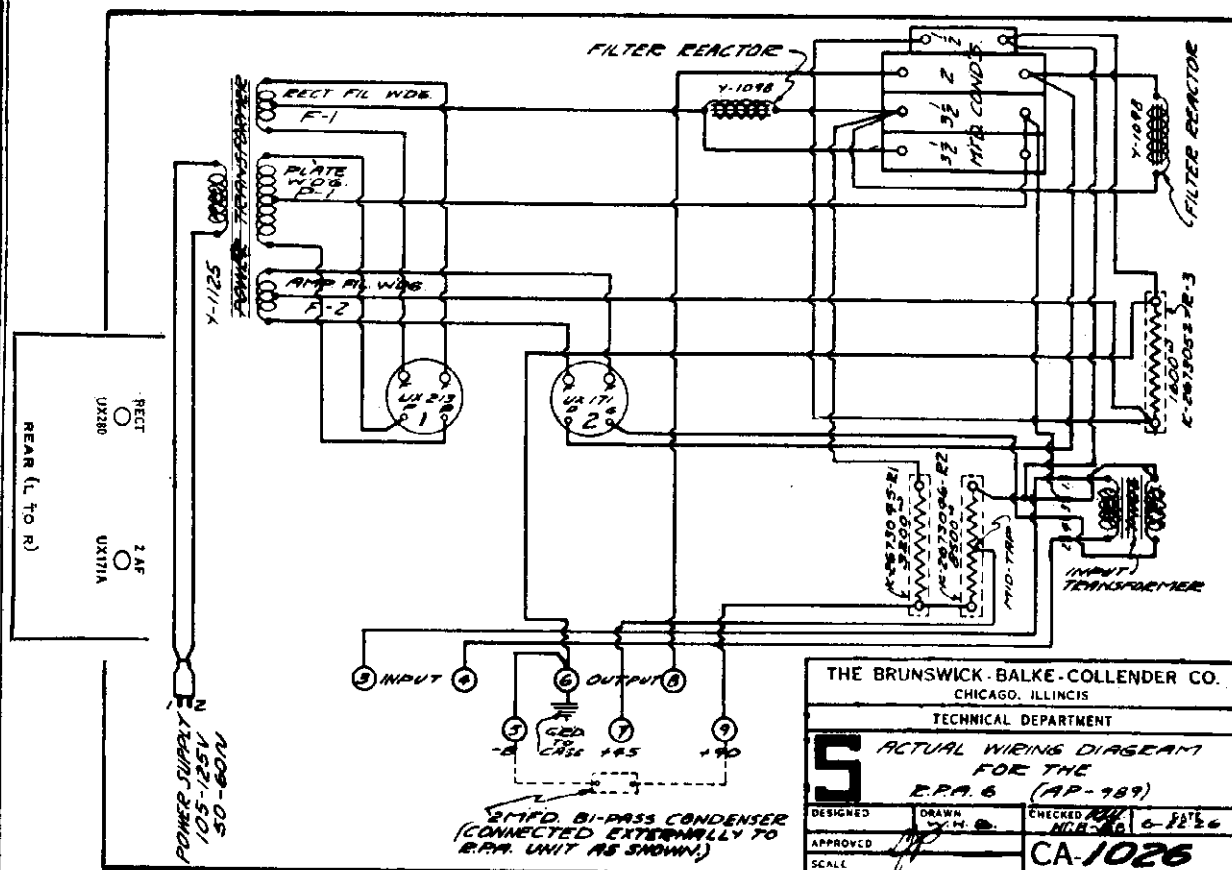
BRUNSWICK RADIO CORPORATION



MODEL RPA-6

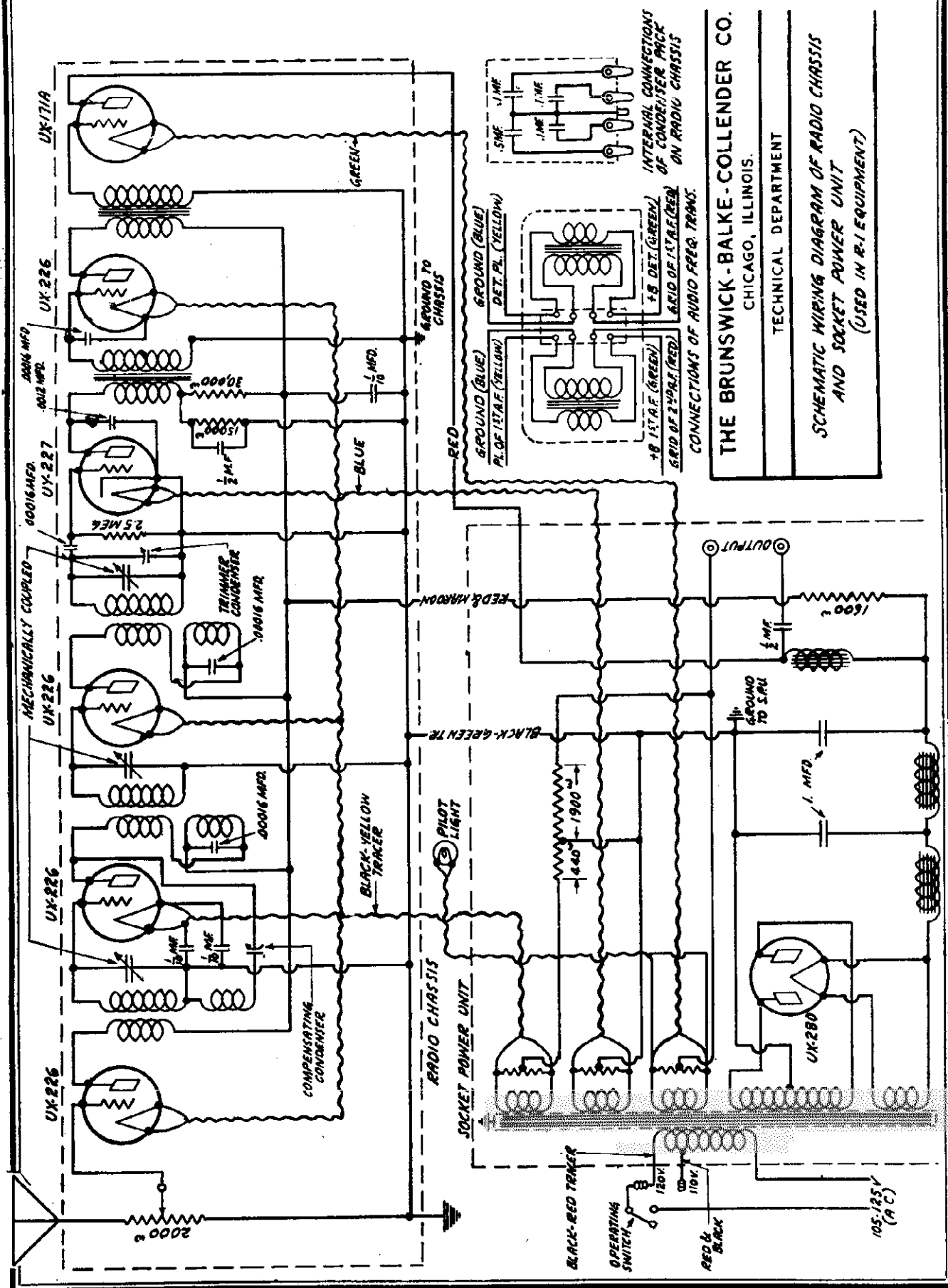
MODEL PR-6

BRUNSWICK RADIO CORPORATION



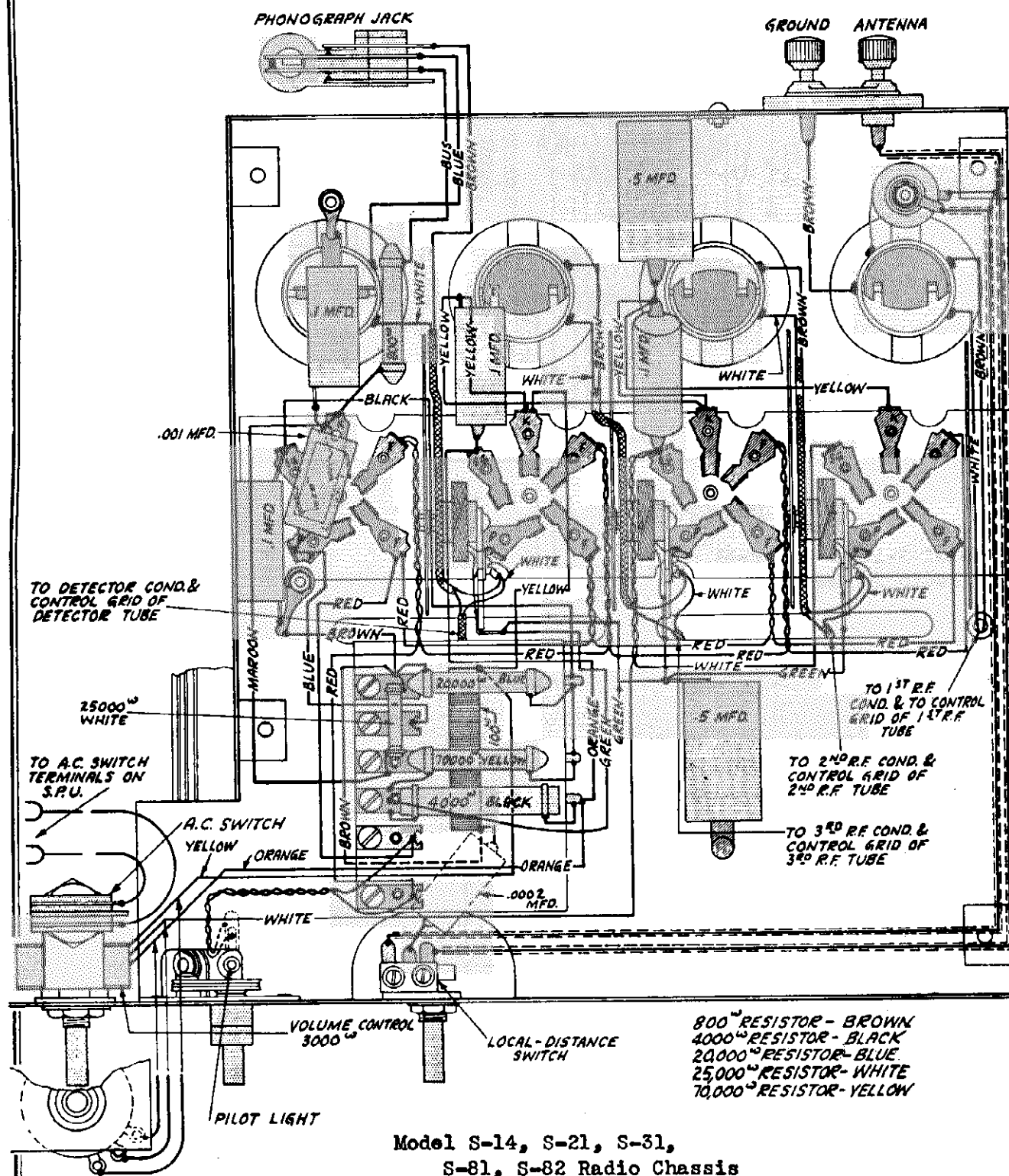
BRUNSWICK RADIO CORPORATION

MODEL R-1



MODEL S-14,S-21,S-31
S-81,S-82 Radio
Chassis

BRUNSWICK RADIO CORPORATION

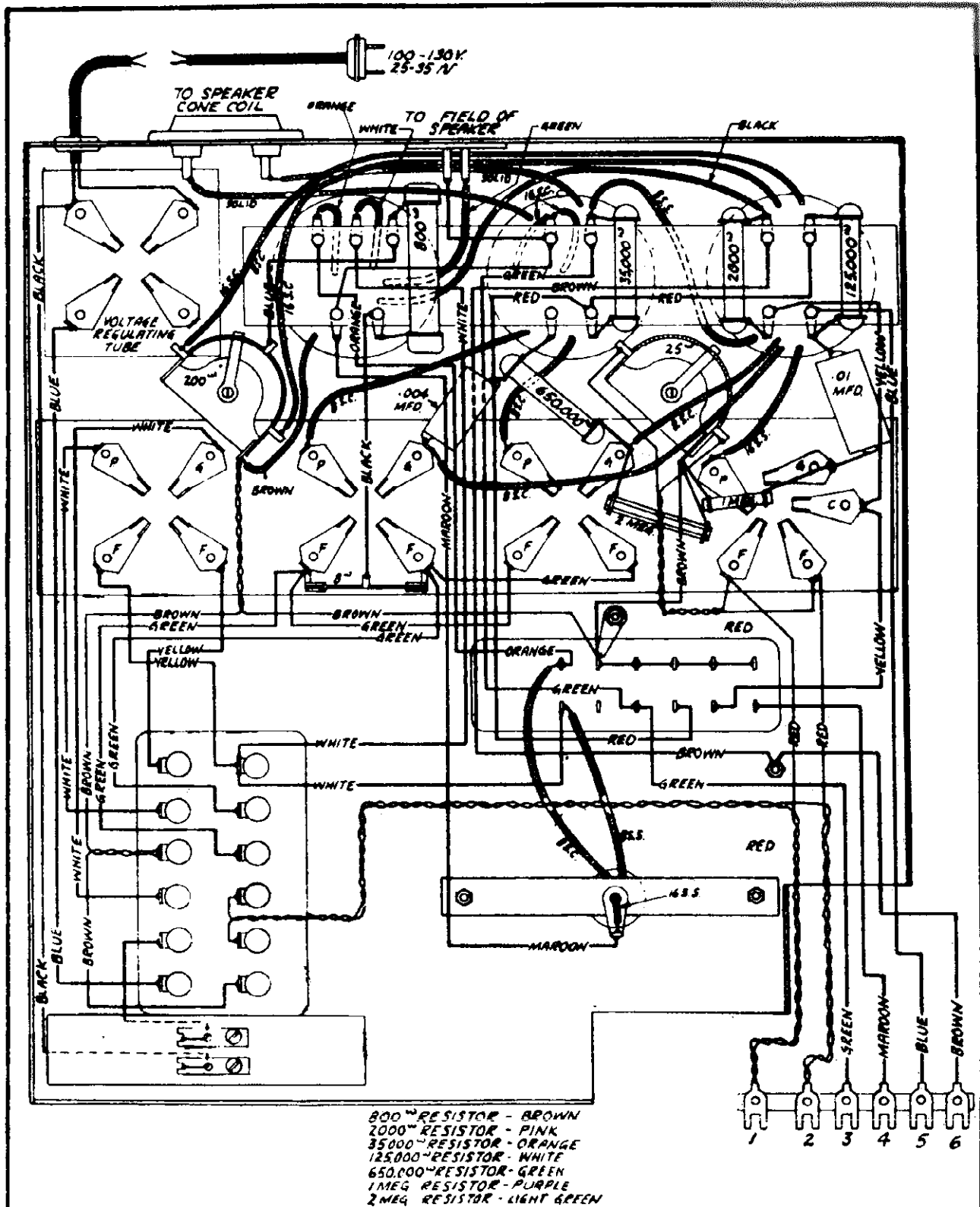


SCHEMATIC CIRCUIT OF RADIO CHASSIS USING UY-224 TUBES

7008

BRUNSWICK RADIO CORPORATION

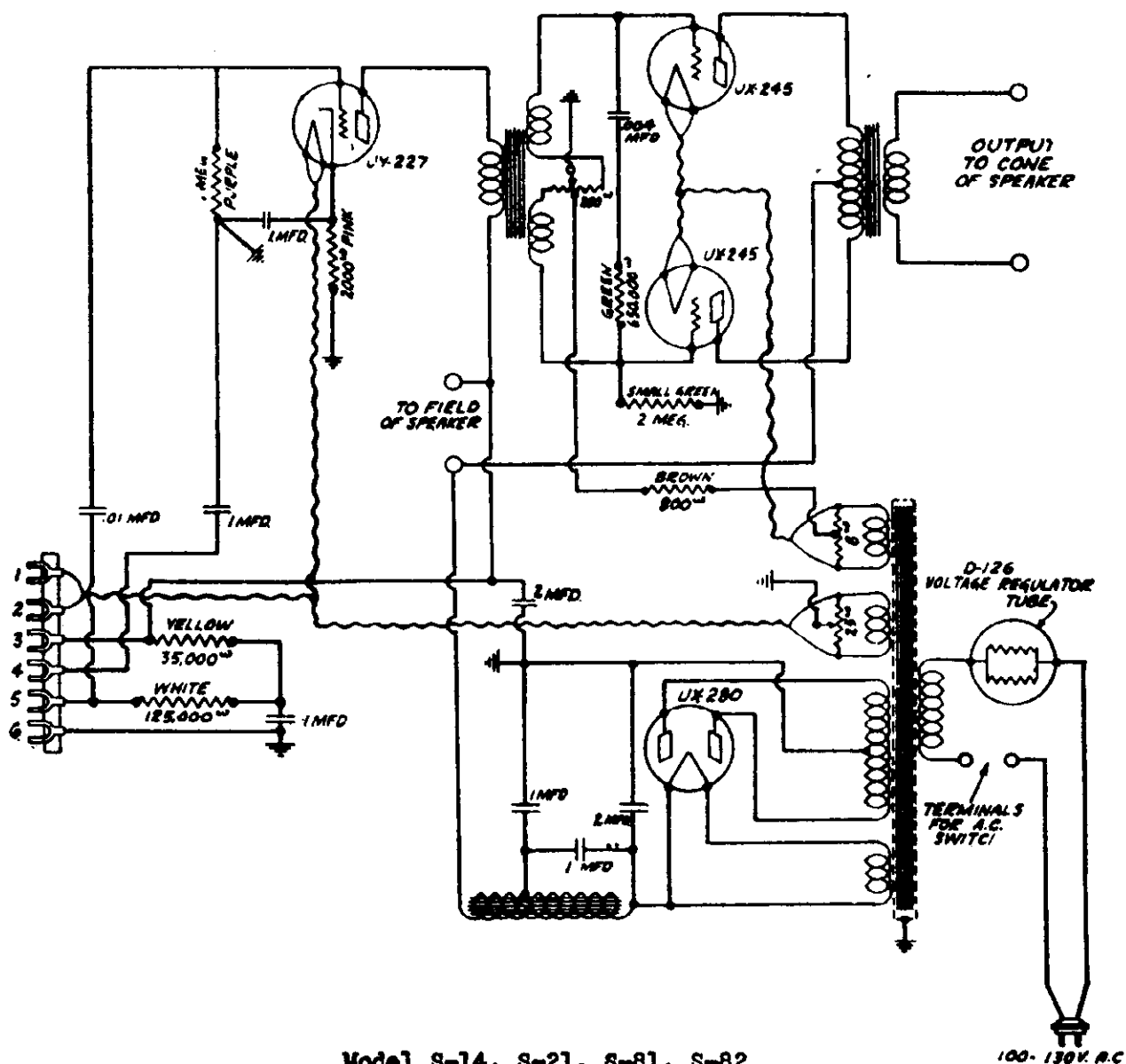
MODEL S-14, S-21,
S-81, S-82
25 cycle AF
Chassis



Model S-14, S-21, S-81, S-82 AF Chassis
25 cycle

MODEL S-14, S-21
S-81, S-82 AC
25 cycle AF
Schematic

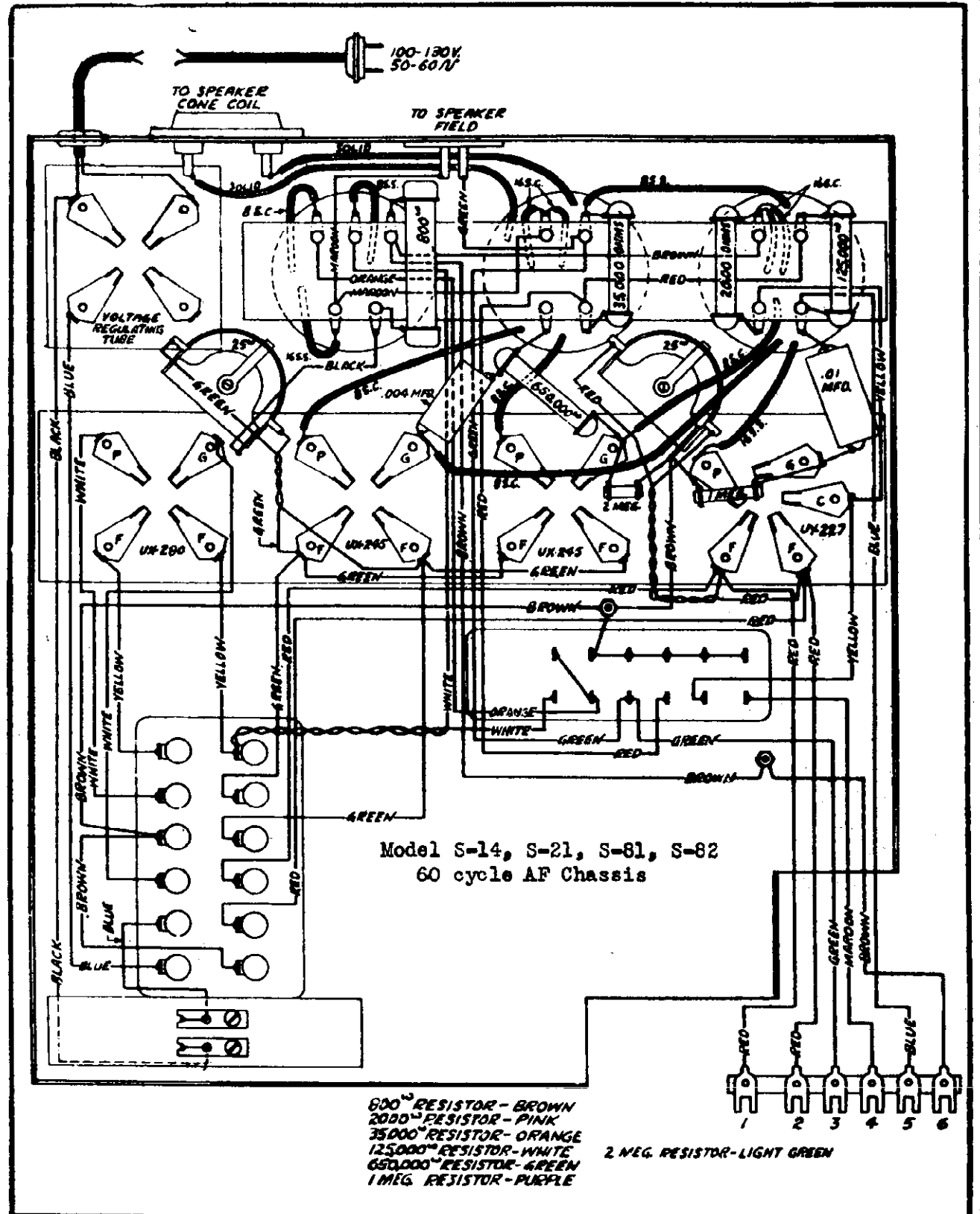
BRUNSWICK RADIO CORPORATION



Model S-14, S-21, S-81, S-82
25 cycle AF Schematic

BRUNSWICK RADIO CORPORATION

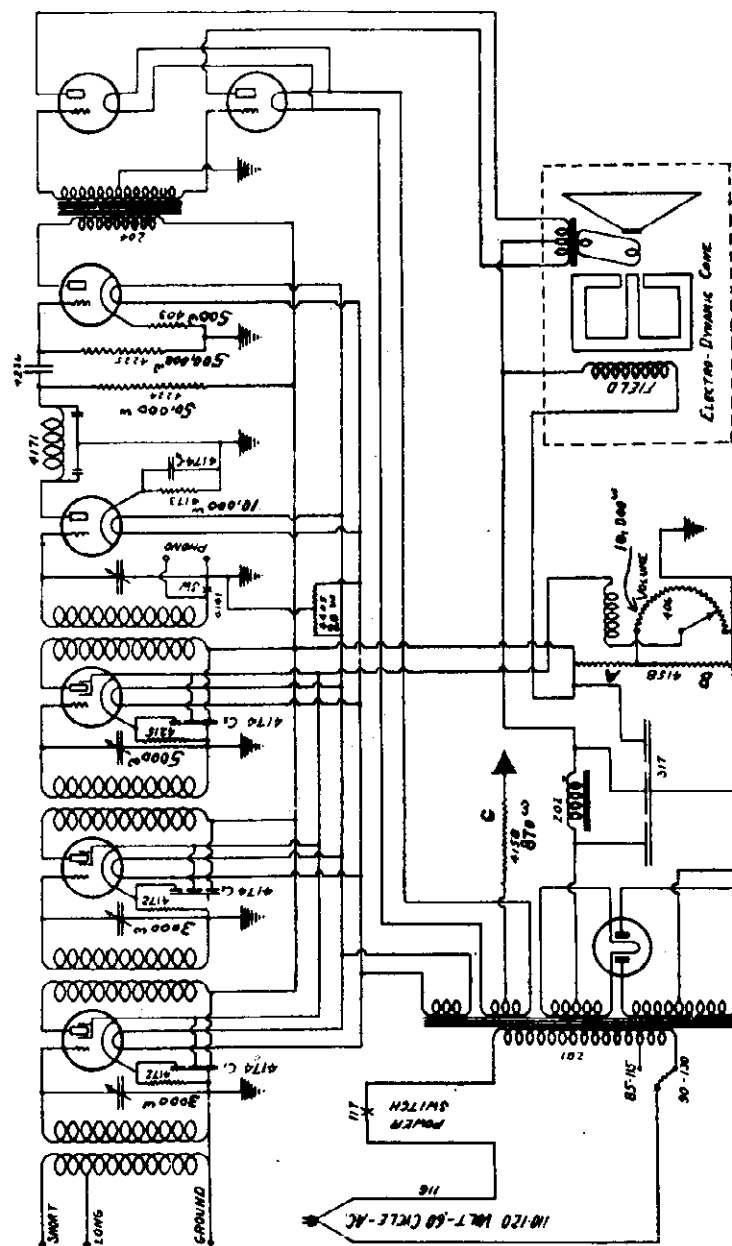
MODEL S-14, S-21
S-81, S-82
60 cycle AF
Chassis



MODEL S-31
60 cycle AF
Chassis



BUSH & LANE PIANO COMPANY



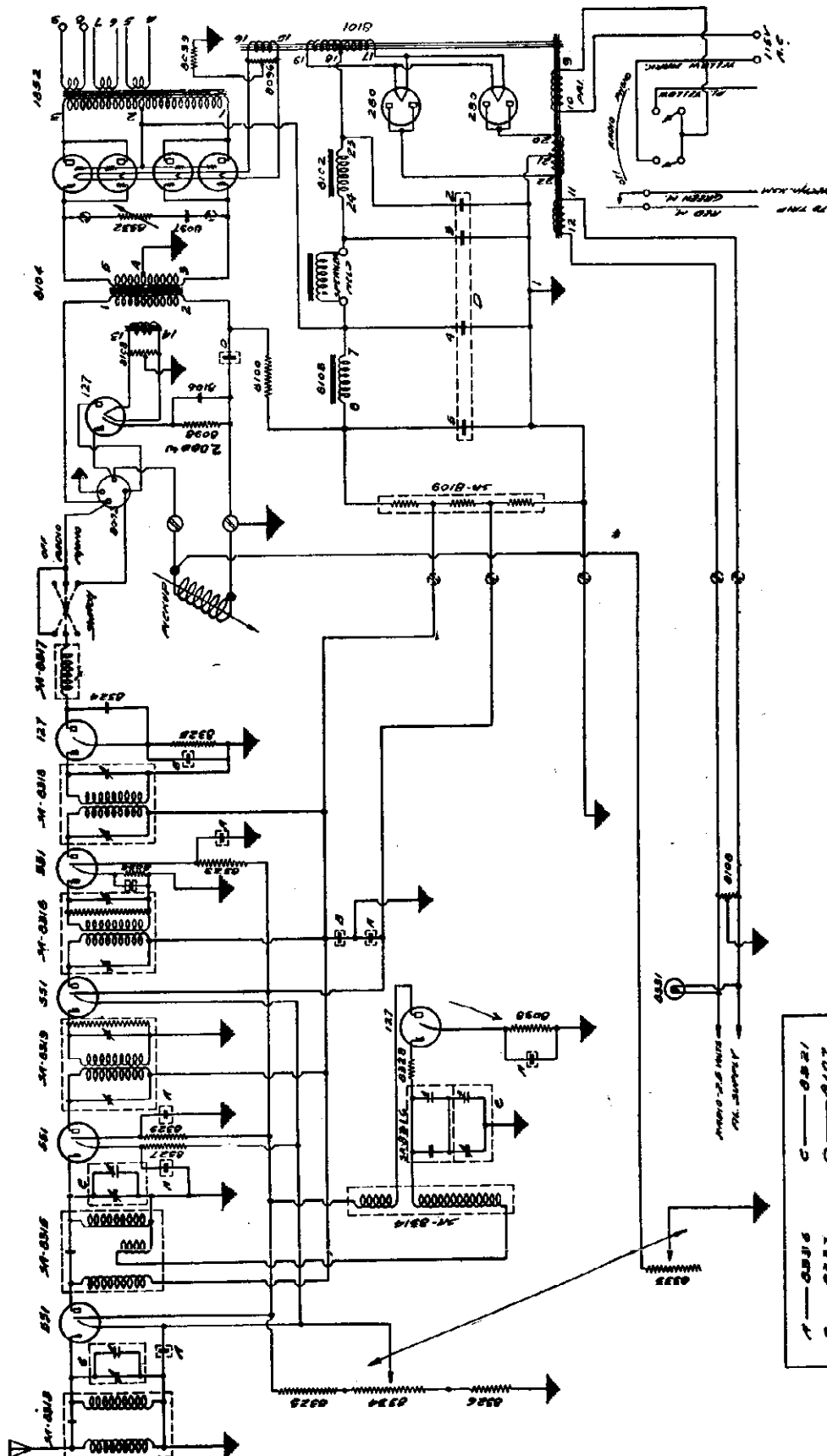
4158—Voltage Divider Resistor 5750 Ohms, Total.

No.12 Screen Grid

CX-360	<input type="radio"/> Natl.
CX-345	<input type="radio"/> 2nd A.F.
C-324	<input type="radio"/> 1st R.F.
C-324	<input type="radio"/> 2nd R.F.
C-324	<input type="radio"/> 3rd R.F.
C-327	<input checked="" type="radio"/> 2nd A.F.
CX-345	<input type="radio"/> 2nd A.F.

Line Voltage 112—Set on 120 Volt Tap

TIME IN HOURS	TIME OF DAY	POSITION OF SUN		TIME OF DAY		TEMPERATURE		WIND		STATE OF SKY		STATE OF SKY		STATE OF SKY		STATE OF SKY	
		LAT.	LONG.	ALT.	AZ.	WINDS	WINDS	WINDS	WINDS	WINDS	WINDS	WINDS	WINDS	WINDS	WINDS	WINDS	
1	284	107	2.45	185	2.30	170	3.5	1	4	3	40						
2	284	107	2.45	185	2.35	170	3.0	3	1.0	4	3	45					
3	284	107	2.45	185	2.35	170	3.0	3	1.6	4	3	45					
4	287	107	2.45	185	2.35	170	3.0	3	1.6	4	3	45					
5	287	107	2.45	185	2.35	169	10.0	10	7.6	9	1.5	-					
6	284	107	2.45	185	2.34	160	4.0	-	54	30	4	-					
7	245	107	2.45	205	2.34	150	4.5	-	58	30	4	-					
8	250	105.5	2.45	210	2.34	150	4.5	-	60	30	4	-					

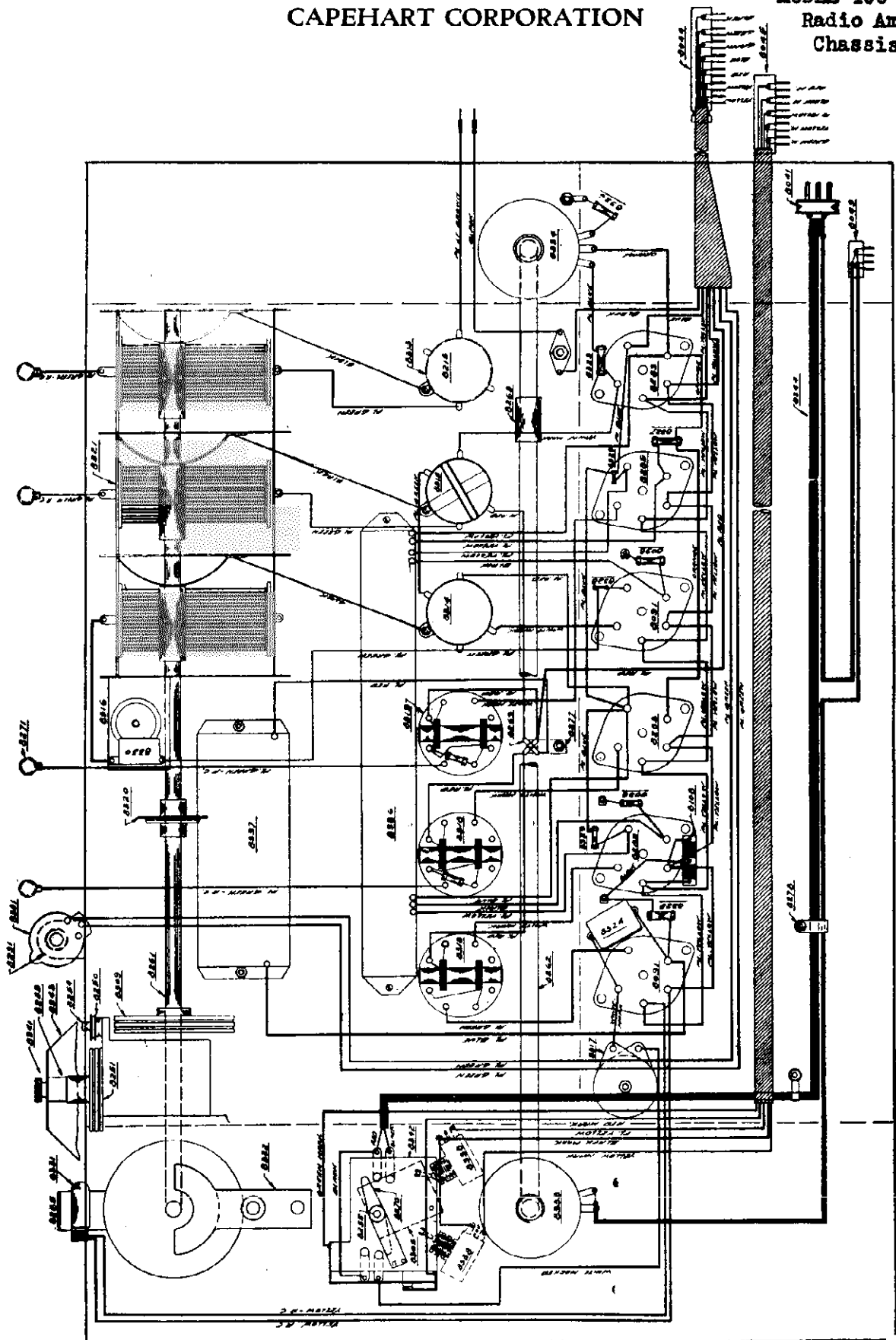


SCHEMATIC - CRAFTART TUNER & AMPLIFIER *400 - *401 - *402

8096	- Large 10 ohm CT	8100	- 11000 ohms	8109	- 6250 ohms	8328	- 3000 ohms
8097	- .004 mfd	8108	- Small 10 ohm CT	8323	- 20 megohms	8329	- 300 ohms
8098	- 2000 ohms	8106	- Pentode bias cond. 300 mfd	8325	- 30000 ohms	8330	- .0009 mfd
8099	- 105 ohms	8107	- 5 section cond. 24 mfd	8326	- 200 ohms	8331	- 2.5 volt lamps

CAPEHART CORPORATION

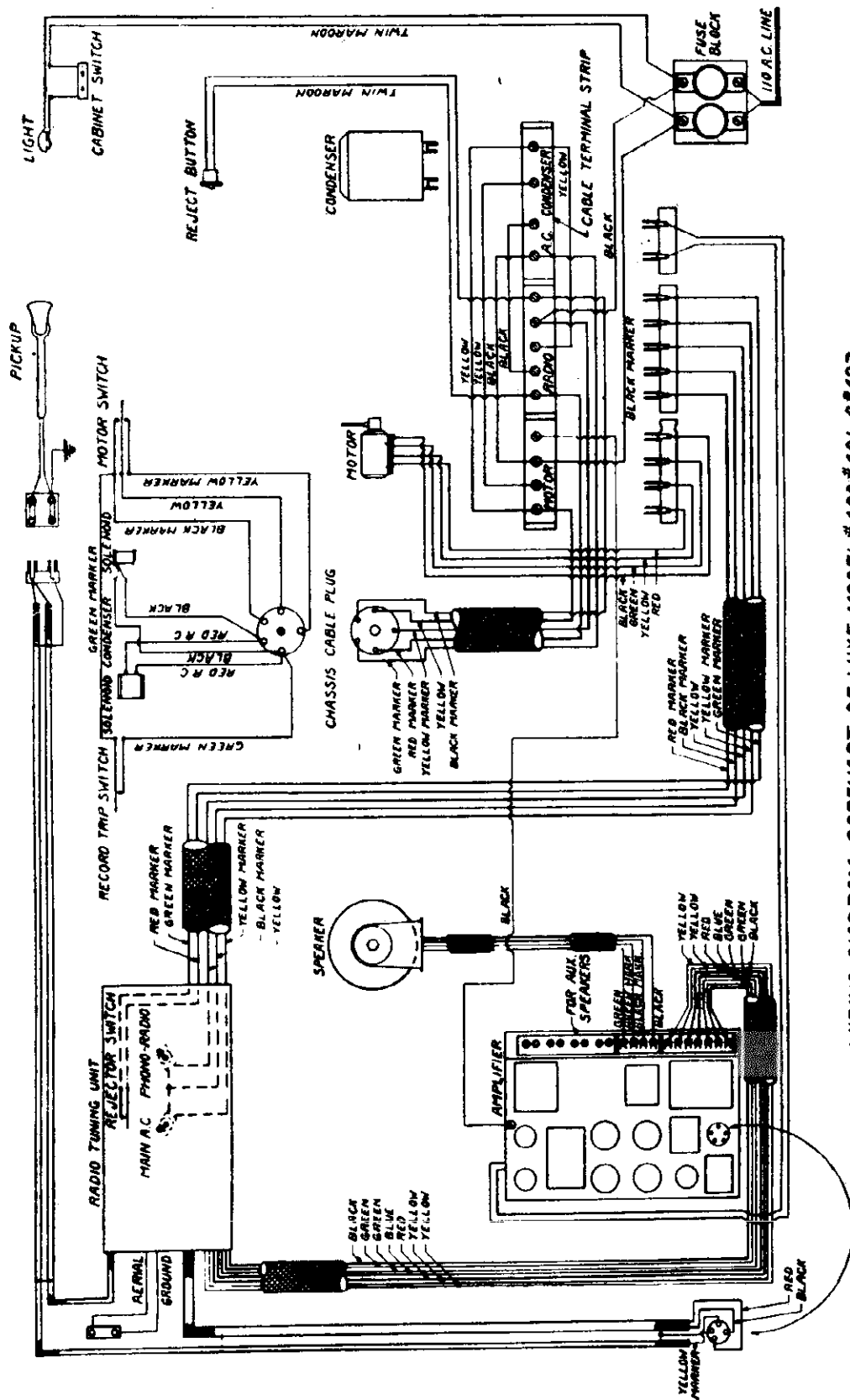
MODEL 400 Series
Radio Amp.
Chassis



VICTORIN - CAPEHART RADIO TUNER "3076" (400 Series)

MODEL 400, 401, 402
Complete Wiring

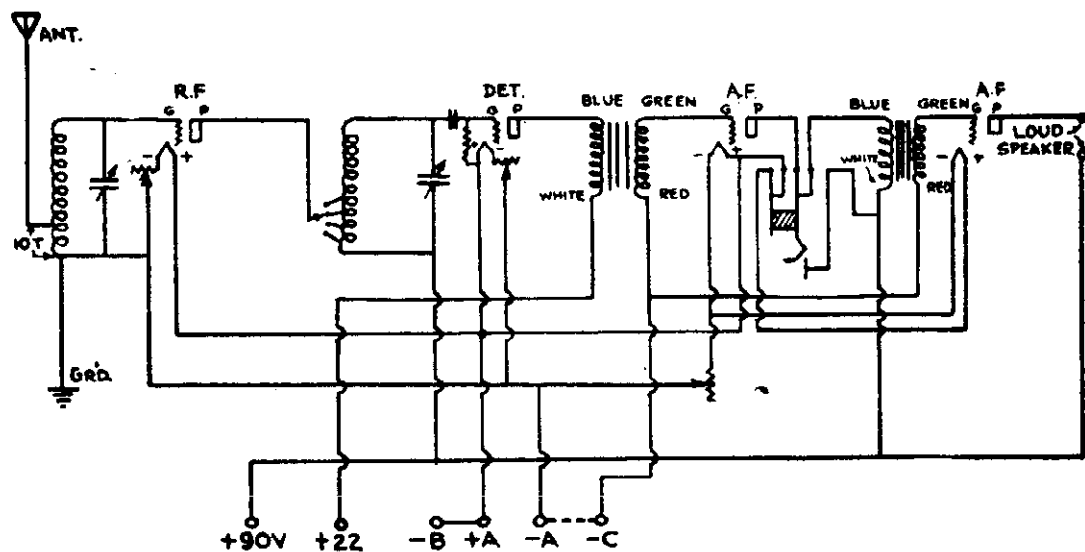
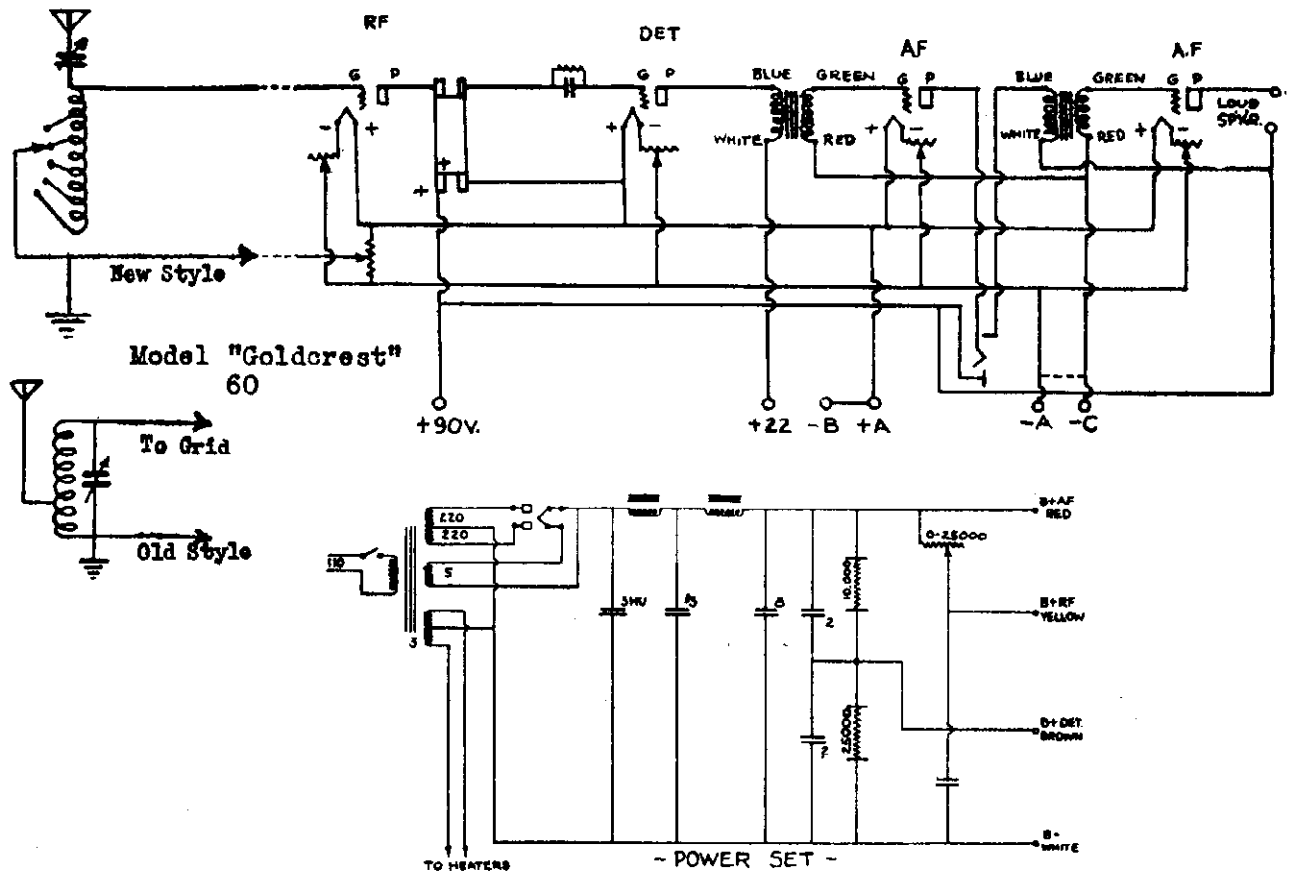
CAPEHART CORPORATION



WIRING DIAGRAM CAPEHART DE LUXE MODEL #400, #401 & #402

CLEARTONE RADIO CORPORATION

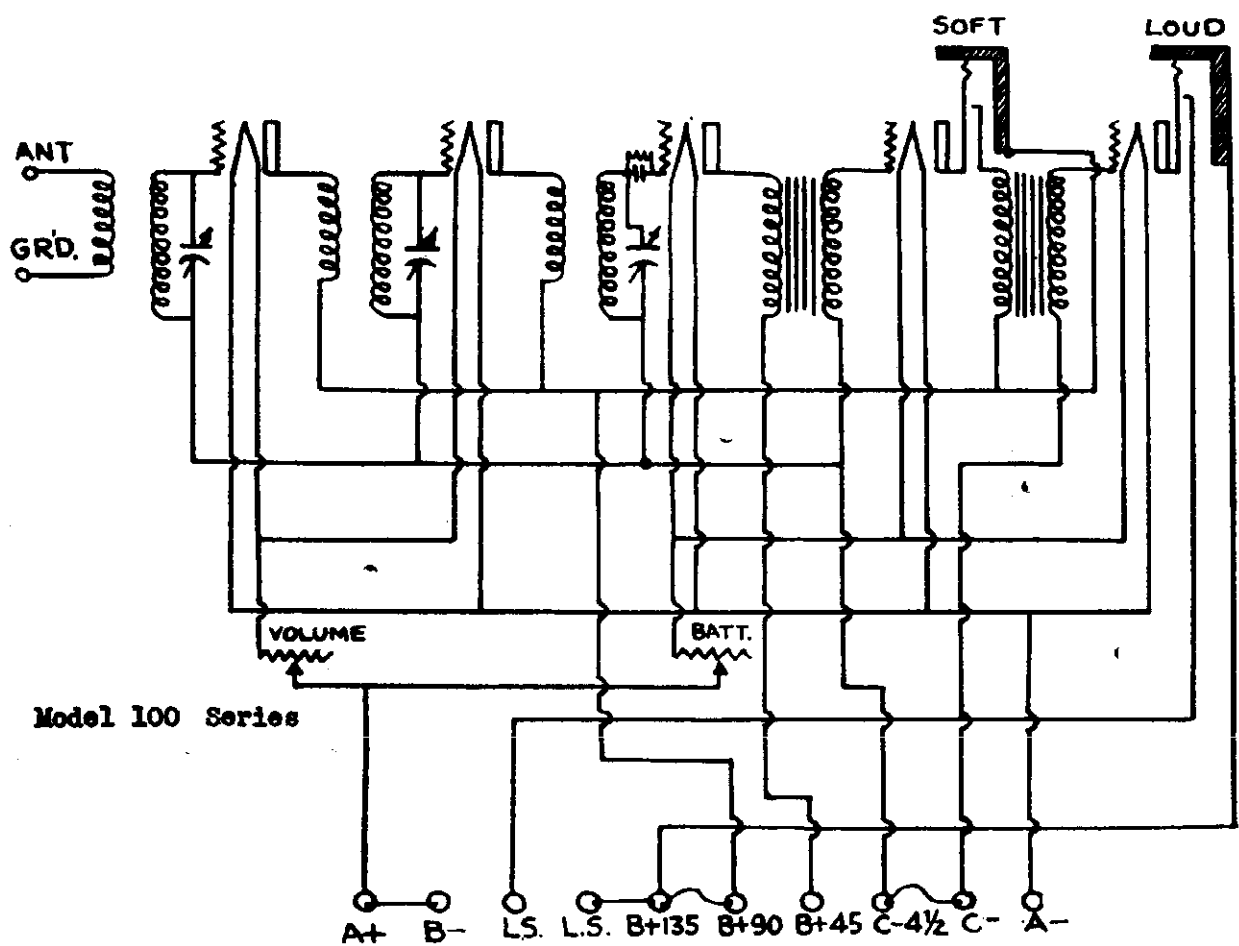
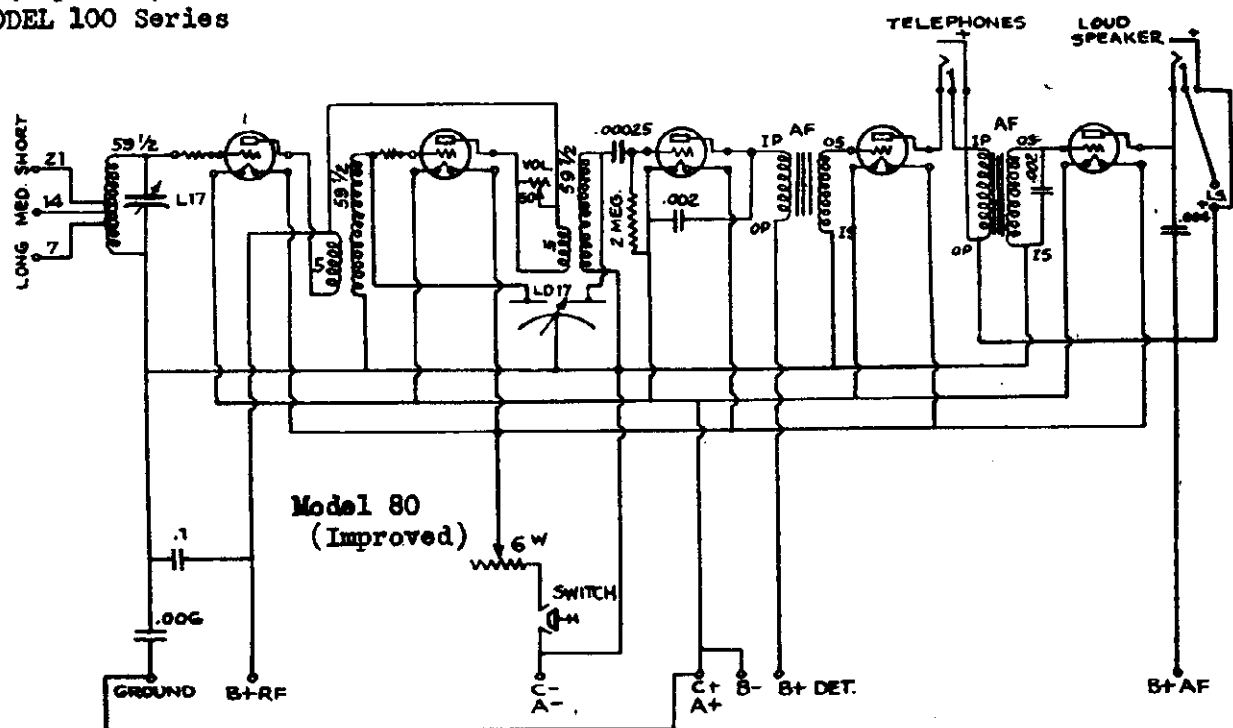
MODEL 60
Goldcrest
MODEL 70
Clearodyne



Model Clearodyne 70

MODEL 80
(Improved)
MODEL 100 Series

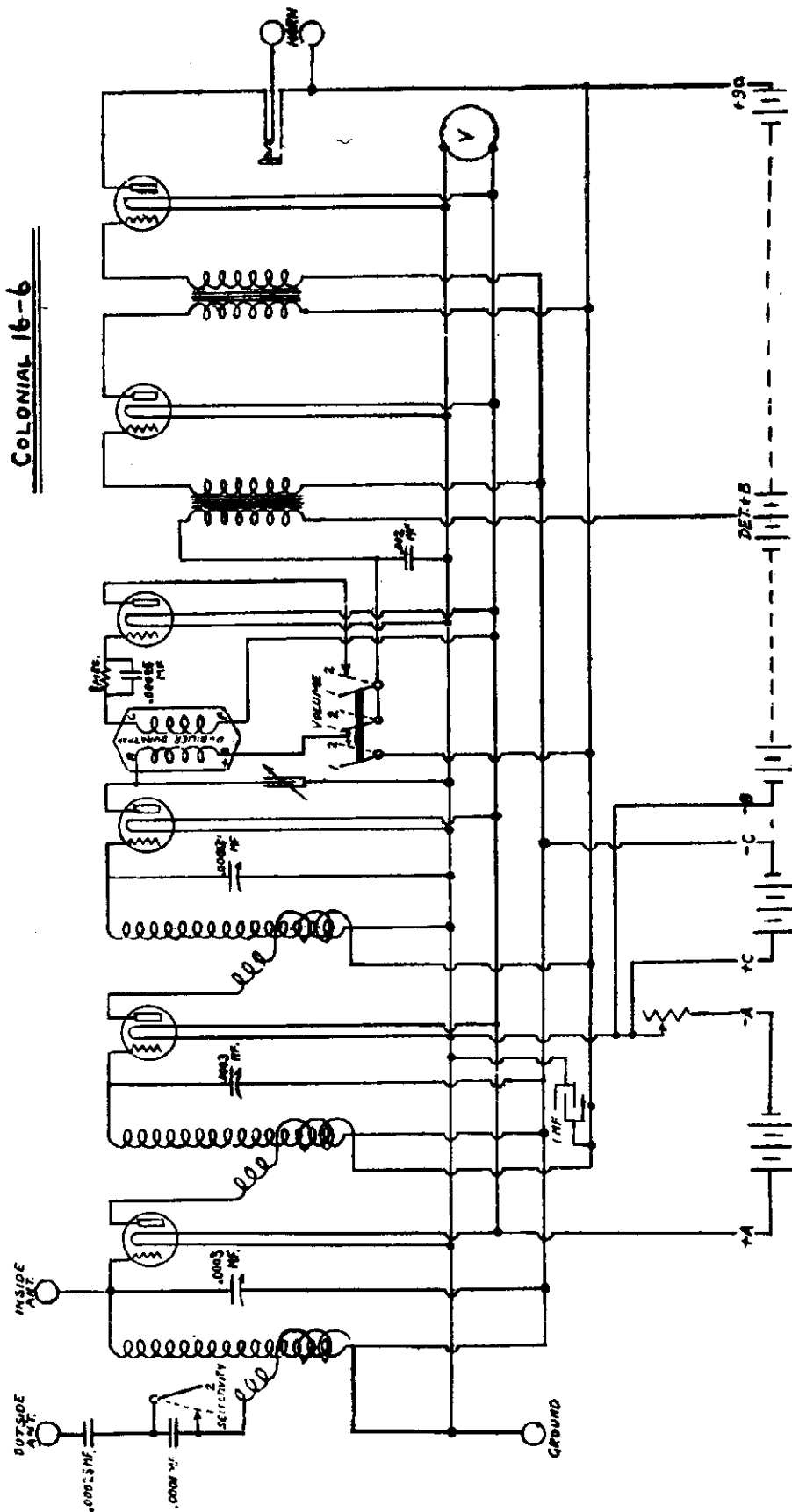
CLEARTONE RADIO CORPORATION



COLONIAL RADIO CORP.

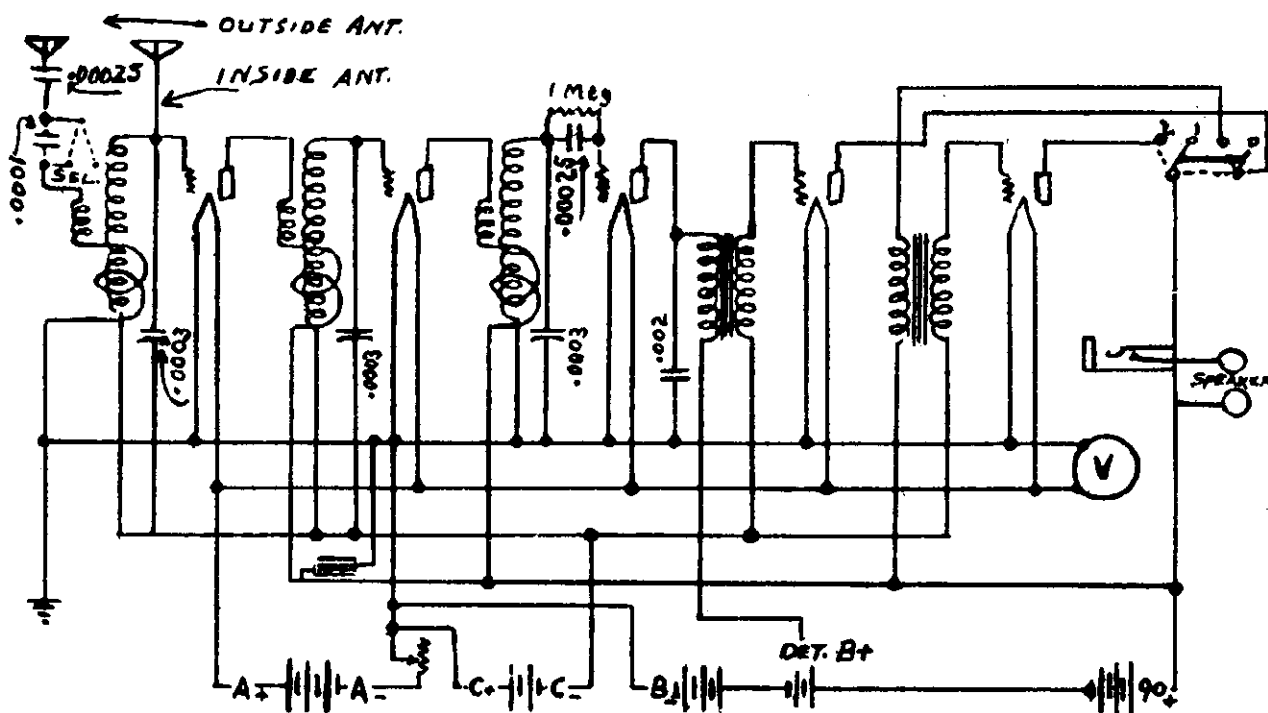
MODEL 16-6

COLONIAL 16-6

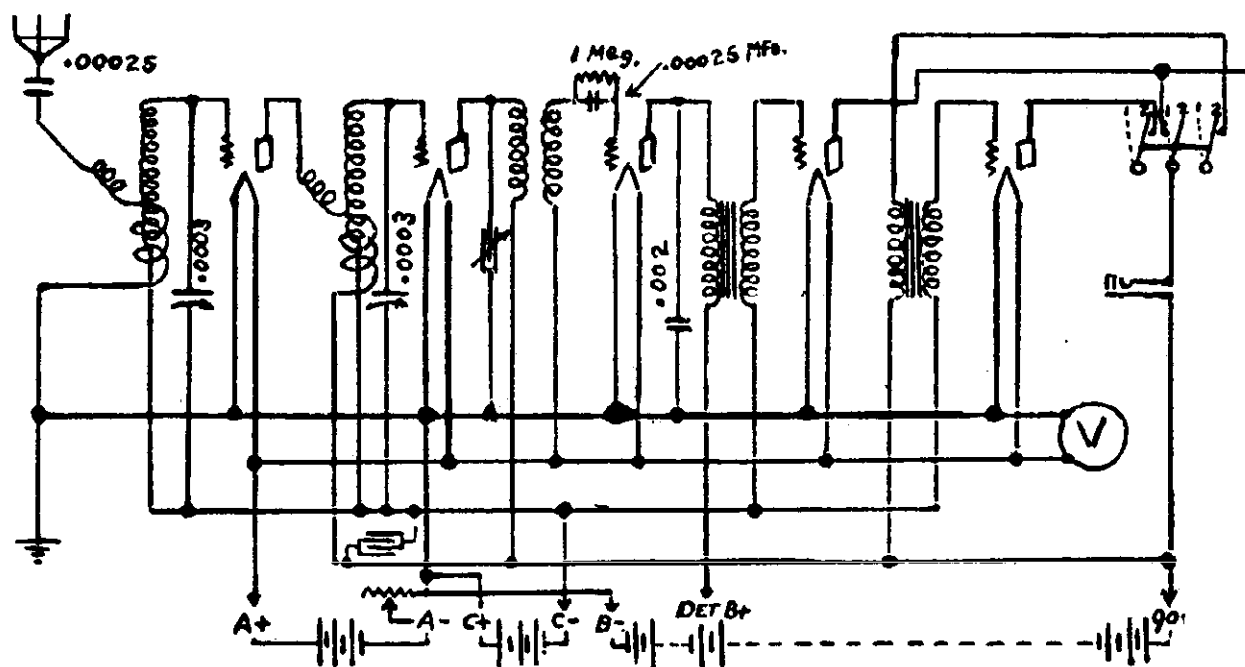


MODEL 16-5
MODEL 17-5

COLONIAL RADIO CORP.



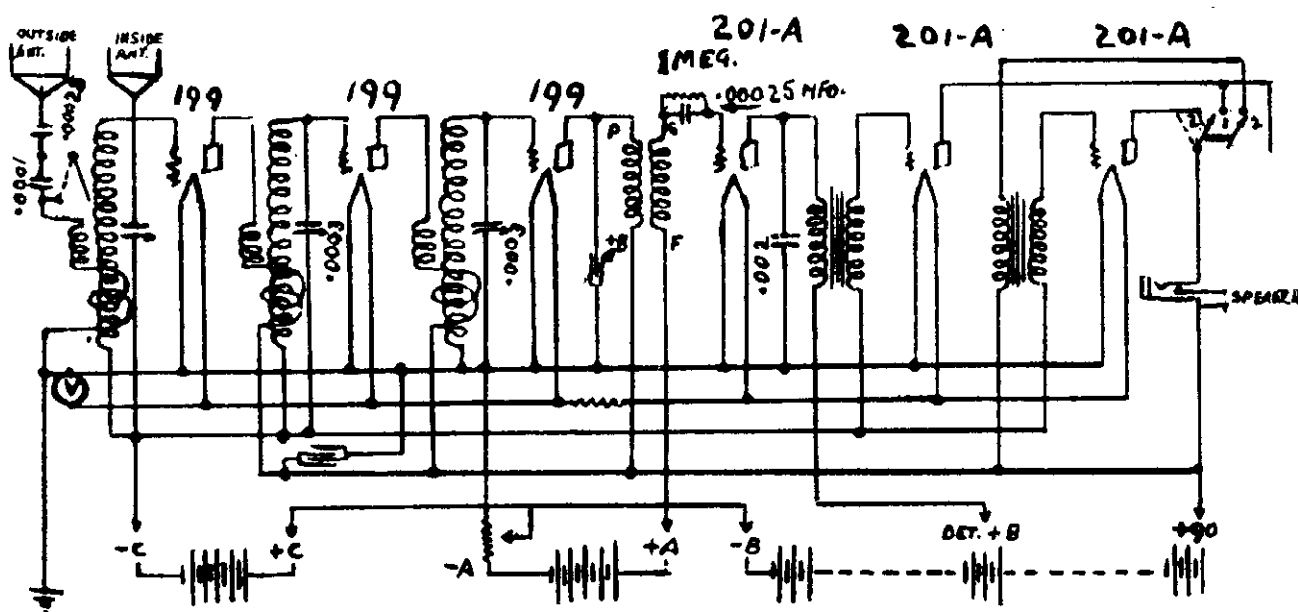
Model 16-5



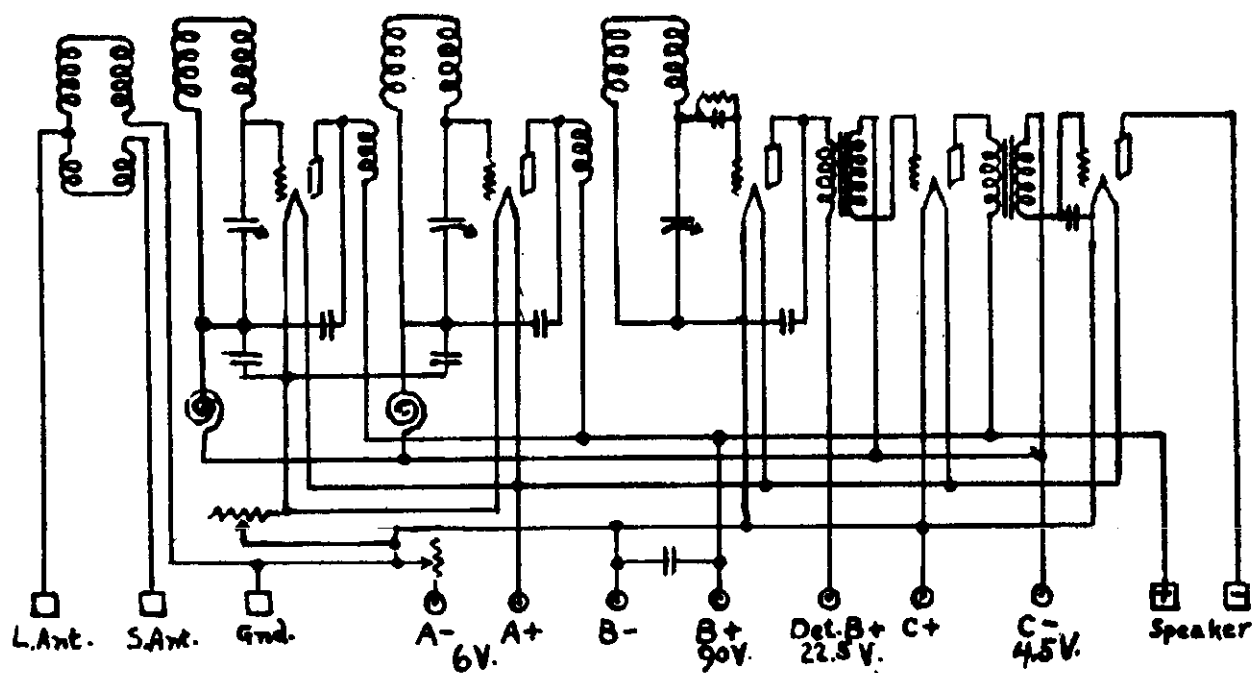
Model 17-5

COLONIAL RADIO CORP.

MODEL 20
MODEL 21



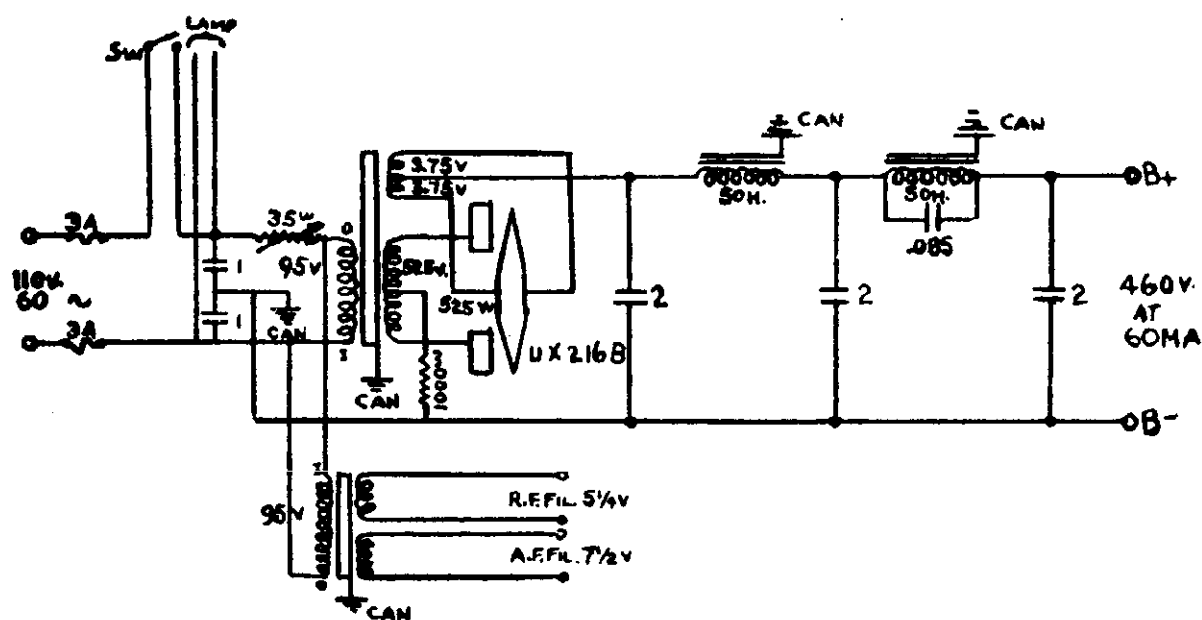
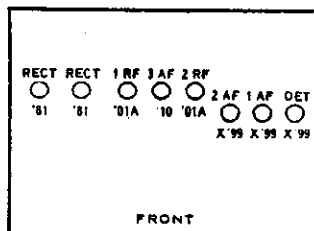
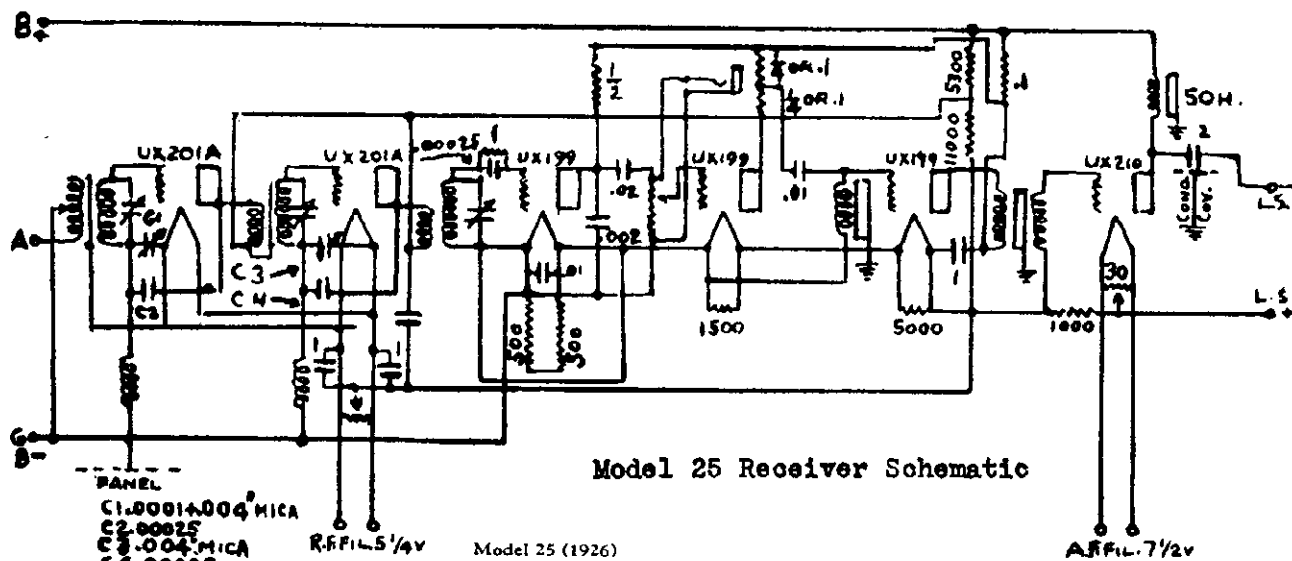
Model 20



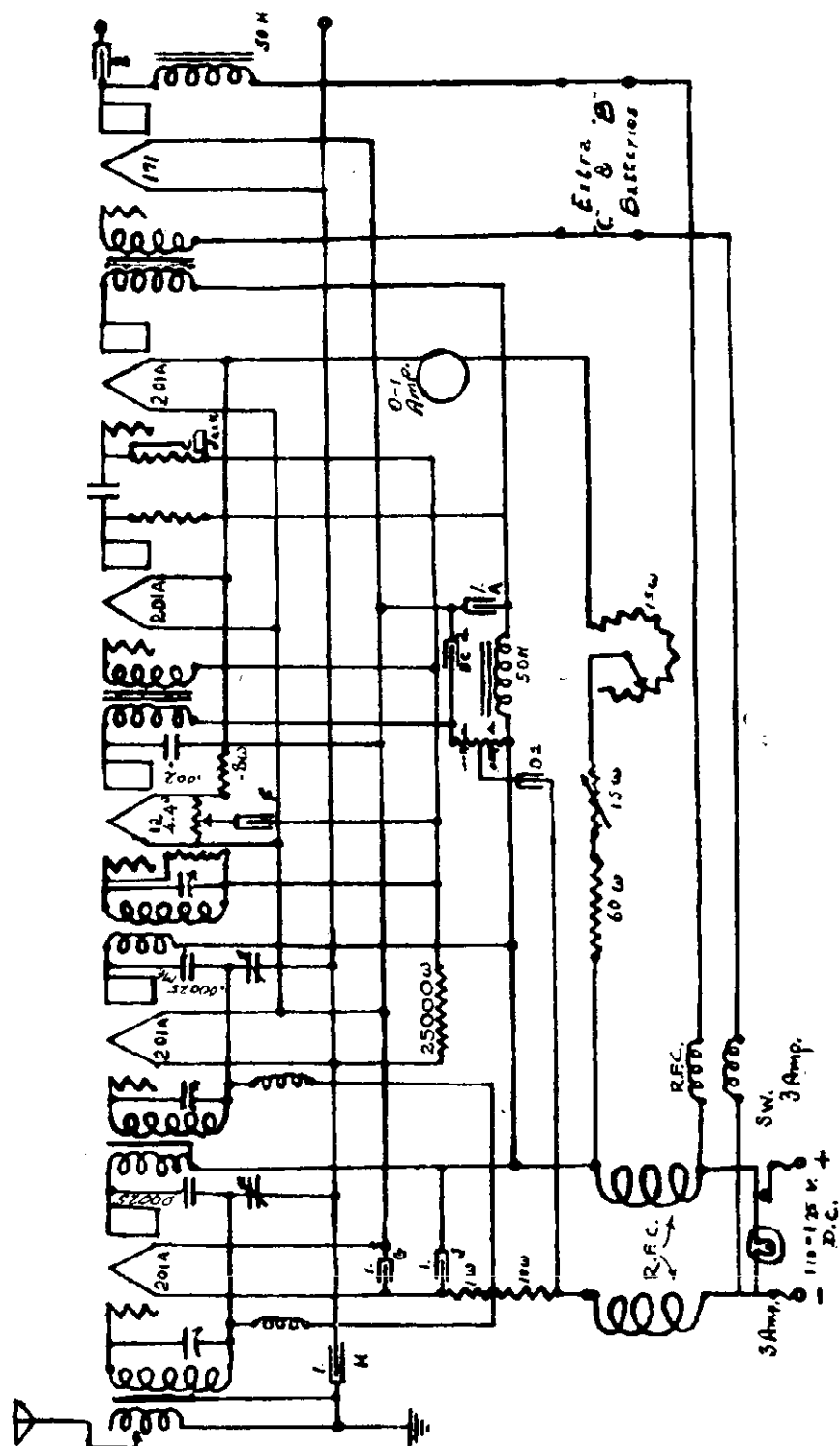
Model 21

MODEL 25

COLONIAL RADIO CORP



COLONIAL RADIO CORP.

MODEL 26

Model 26

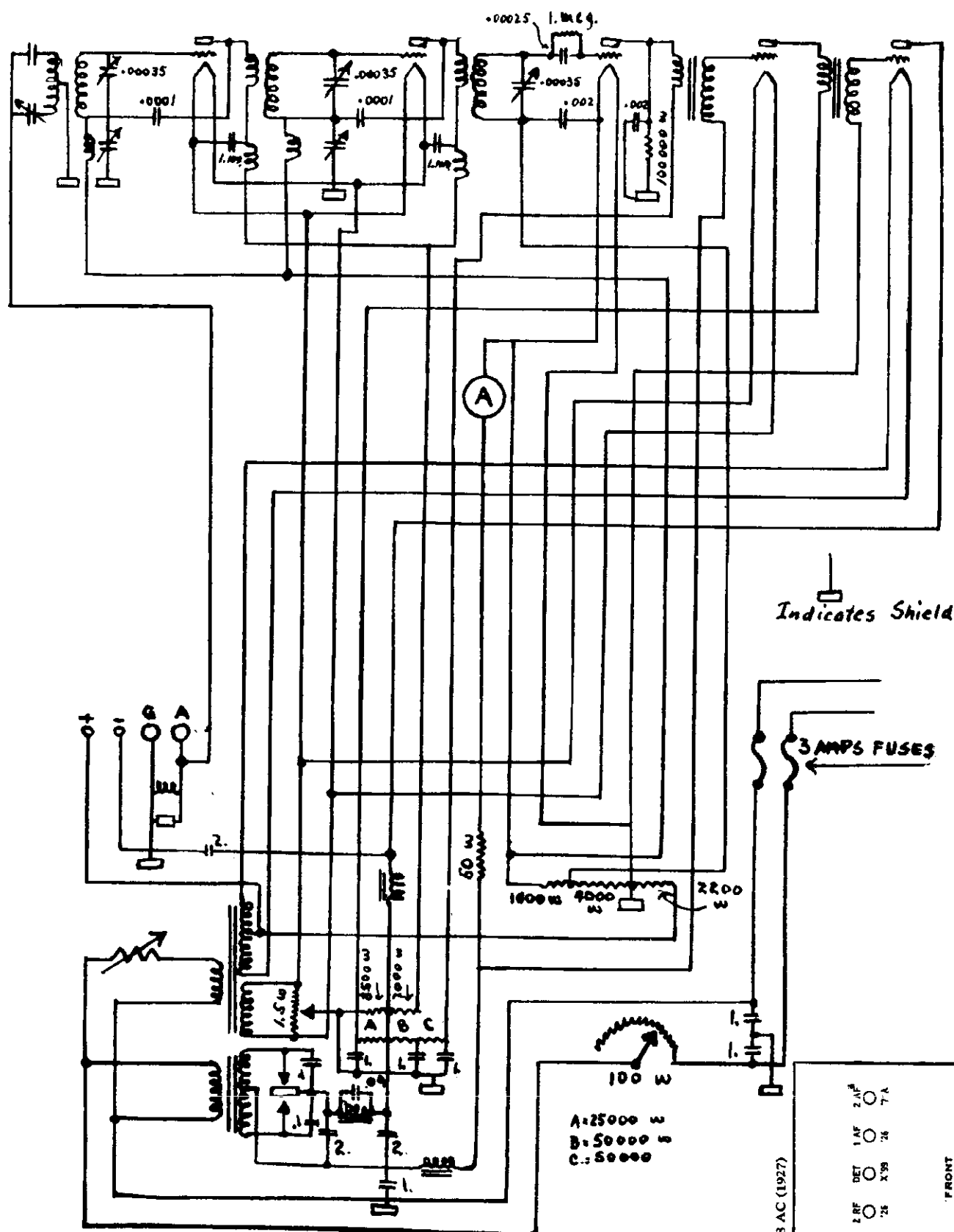
(D.C.)

2

1st A.F.	2nd A.F.	3rd A.F.	4th A.F.	5th A.F.	6th A.F.	7th A.F.	8th A.F.	9th A.F.	10th A.F.	11th A.F.	12th A.F.	13th A.F.	14th A.F.	15th A.F.	16th A.F.	17th A.F.	18th A.F.	19th A.F.	20th A.F.	21st A.F.	22nd A.F.	23rd A.F.	24th A.F.	25th A.F.	26th A.F.	27th A.F.	28th A.F.	29th A.F.	30th A.F.	31st A.F.	32nd A.F.	33rd A.F.	34th A.F.	35th A.F.	36th A.F.	37th A.F.	38th A.F.	39th A.F.	40th A.F.	41st A.F.	42nd A.F.	43rd A.F.	44th A.F.	45th A.F.	46th A.F.	47th A.F.	48th A.F.	49th A.F.	50th A.F.	51st A.F.	52nd A.F.	53rd A.F.	54th A.F.	55th A.F.	56th A.F.	57th A.F.	58th A.F.	59th A.F.	60th A.F.	61st A.F.	62nd A.F.	63rd A.F.	64th A.F.	65th A.F.	66th A.F.	67th A.F.	68th A.F.	69th A.F.	70th A.F.	71st A.F.	72nd A.F.	73rd A.F.	74th A.F.	75th A.F.	76th A.F.	77th A.F.	78th A.F.	79th A.F.	80th A.F.	81st A.F.	82nd A.F.	83rd A.F.	84th A.F.	85th A.F.	86th A.F.	87th A.F.	88th A.F.	89th A.F.	90th A.F.	91st A.F.	92nd A.F.	93rd A.F.	94th A.F.	95th A.F.	96th A.F.	97th A.F.	98th A.F.	99th A.F.	100th A.F.	101st A.F.	102nd A.F.	103rd A.F.	104th A.F.	105th A.F.	106th A.F.	107th A.F.	108th A.F.	109th A.F.	110th A.F.	111th A.F.	112th A.F.	113th A.F.	114th A.F.	115th A.F.	116th A.F.	117th A.F.	118th A.F.	119th A.F.	120th A.F.	121st A.F.	122nd A.F.	123rd A.F.	124th A.F.	125th A.F.	126th A.F.	127th A.F.	128th A.F.	129th A.F.	130th A.F.	131st A.F.	132nd A.F.	133rd A.F.	134th A.F.	135th A.F.	136th A.F.	137th A.F.	138th A.F.	139th A.F.	140th A.F.	141st A.F.	142nd A.F.	143rd A.F.	144th A.F.	145th A.F.	146th A.F.	147th A.F.	148th A.F.	149th A.F.	150th A.F.	151st A.F.	152nd A.F.	153rd A.F.	154th A.F.	155th A.F.	156th A.F.	157th A.F.	158th A.F.	159th A.F.	160th A.F.	161st A.F.	162nd A.F.	163rd A.F.	164th A.F.	165th A.F.	166th A.F.	167th A.F.	168th A.F.	169th A.F.	170th A.F.	171st A.F.	172nd A.F.	173rd A.F.	174th A.F.	175th A.F.	176th A.F.	177th A.F.	178th A.F.	179th A.F.	180th A.F.	181st A.F.	182nd A.F.	183rd A.F.	184th A.F.	185th A.F.	186th A.F.	187th A.F.	188th A.F.	189th A.F.	190th A.F.	191st A.F.	192nd A.F.	193rd A.F.	194th A.F.	195th A.F.	196th A.F.	197th A.F.	198th A.F.	199th A.F.	200th A.F.	201st A.F.	202nd A.F.	203rd A.F.	204th A.F.	205th A.F.	206th A.F.	207th A.F.	208th A.F.	209th A.F.	210th A.F.	211st A.F.	212nd A.F.	213rd A.F.	214th A.F.	215th A.F.	216th A.F.	217th A.F.	218th A.F.	219th A.F.	220th A.F.	221st A.F.	222nd A.F.	223rd A.F.	224th A.F.	225th A.F.	226th A.F.	227th A.F.	228th A.F.	229th A.F.	230th A.F.	231st A.F.	232nd A.F.	233rd A.F.	234th A.F.	235th A.F.	236th A.F.	237th A.F.	238th A.F.	239th A.F.	240th A.F.	241st A.F.	242nd A.F.	243rd A.F.	244th A.F.	245th A.F.	246th A.F.	247th A.F.	248th A.F.	249th A.F.	250th A.F.	251st A.F.	252nd A.F.	253rd A.F.	254th A.F.	255th A.F.	256th A.F.	257th A.F.	258th A.F.	259th A.F.	260th A.F.	261st A.F.	262nd A.F.	263rd A.F.	264th A.F.	265th A.F.	266th A.F.	267th A.F.	268th A.F.	269th A.F.	270th A.F.	271st A.F.	272nd A.F.	273rd A.F.	274th A.F.	275th A.F.	276th A.F.	277th A.F.	278th A.F.	279th A.F.	280th A.F.	281st A.F.	282nd A.F.	283rd A.F.	284th A.F.	285th A.F.	286th A.F.	287th A.F.	288th A.F.	289th A.F.	290th A.F.	291st A.F.	292nd A.F.	293rd A.F.	294th A.F.	295th A.F.	296th A.F.	297th A.F.	298th A.F.	299th A.F.	300th A
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MODEL 28 AC

COLONIAL RADIO CORP.

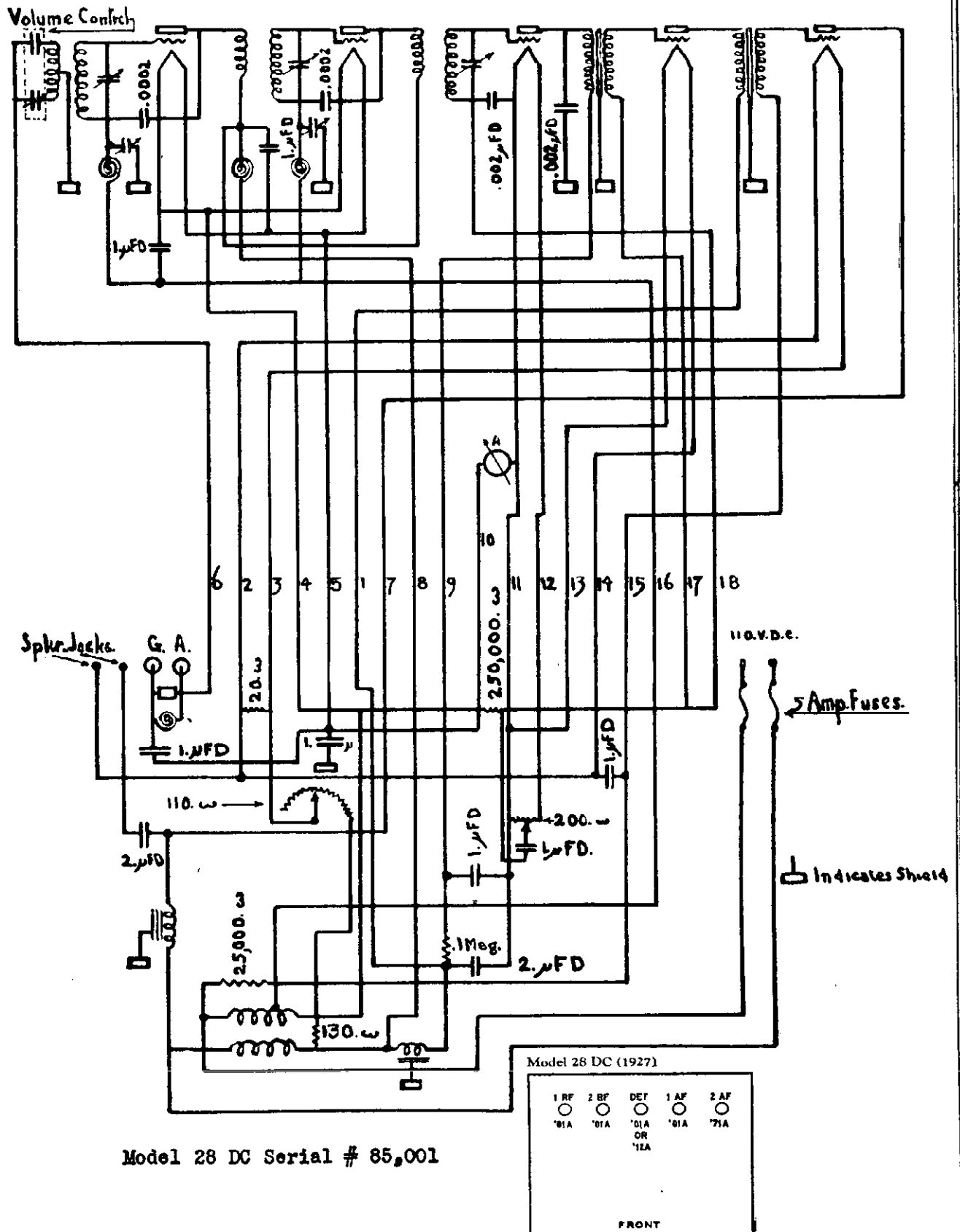


Model 28 AC (1927)

Model 28 AC Serial # 90,001

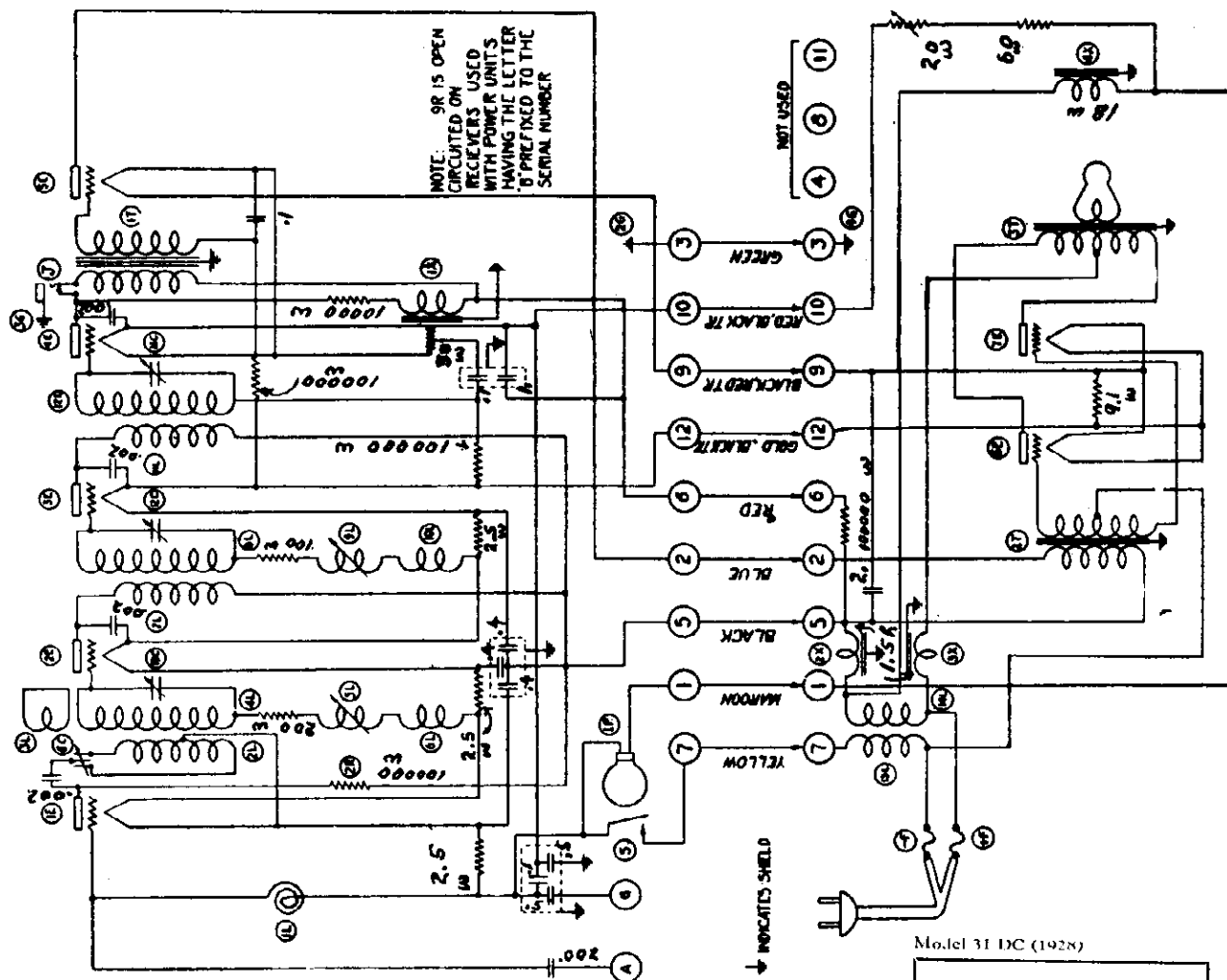
FRONT

COLONIAL RADIO CORP.



MODEL 31 DC

COLONIAL RADIO CORP.

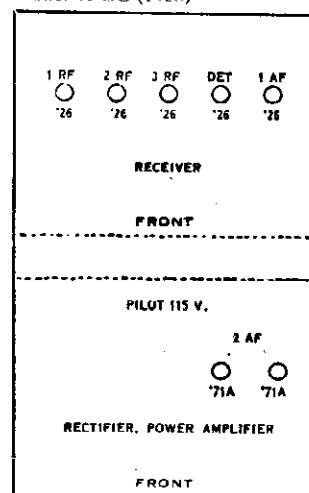


STAGE	TUBE	GRID VOLTAGE		FILAMENT VOLTAGE		PLATE VOLTAGE		PLATE CURRENT	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
1 ST RF	CX 326 UX 226	2	4	1.4	1.6	50	90	2	5
2 ND RF	"	2	4	1.4	1.6	75	120	5	10
3 RD RF	"	2	4	1.4	1.6	75	115	5	10
DETECTOR	"	2	4	1.3	1.5	40	70	1	.5
1 ST AF	"	1.5	3	1.3	1.5	70	100	2.5	5.5
2 ND AF #1	UX 171A CX 371A	12	16	4.4	5.1	75	115	8	20
2 ND AF #2	"	12	16	4.4	5.1	75	115	8	20

TUBE CURRENT AND VOLTAGE CHART

Model 31 D. C.

50,010

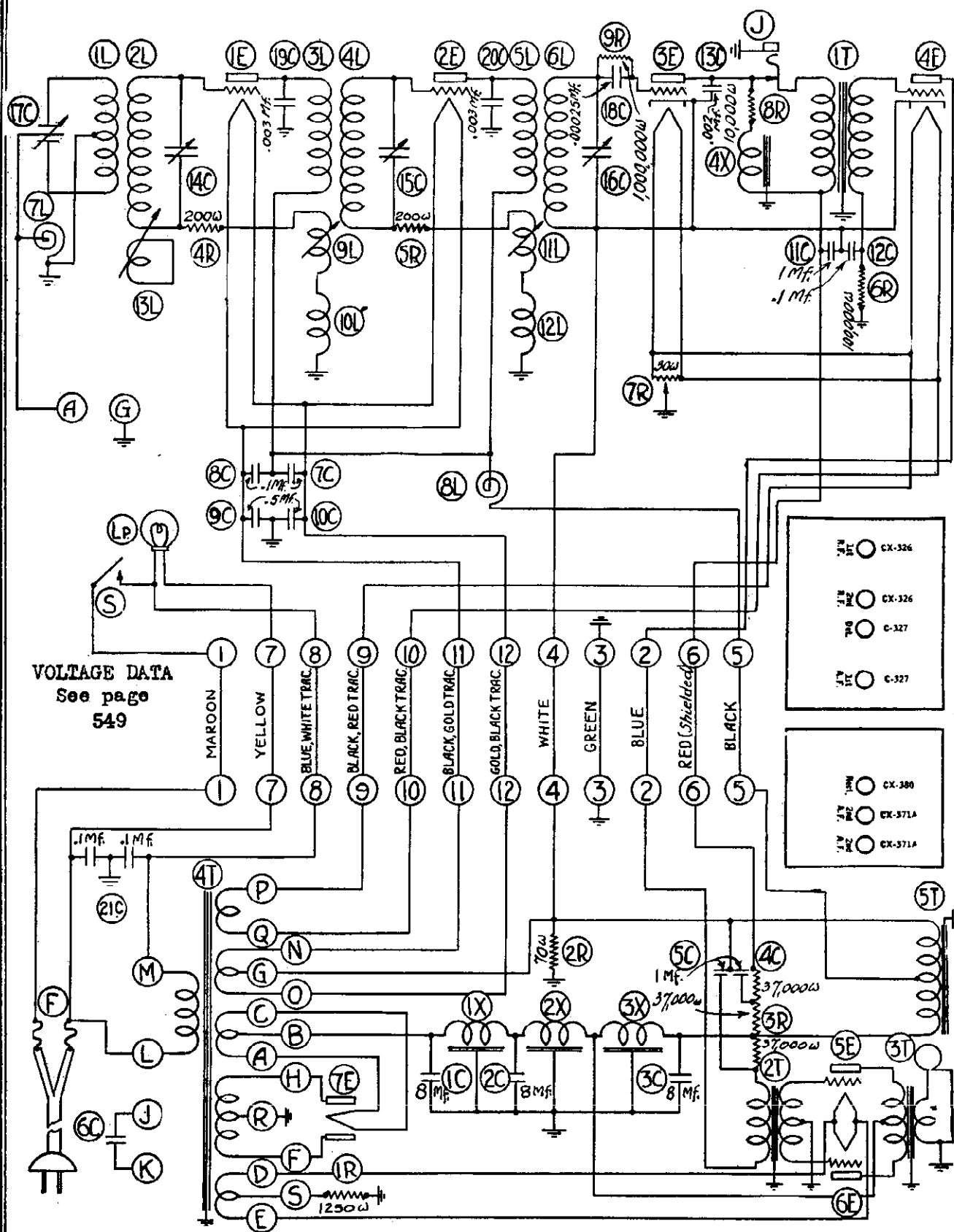


CIRCUIT DIAGRAM
MODEL 31 DC 50,001 - 48,001
COLONIAL RADIO CORPORATION

Model 31 AC 60001-5001

MODEL 31 AC

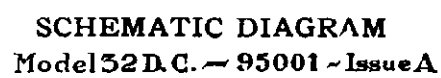
COLONIAL RADIO CORP.



CIRCUIT DIAGRAM

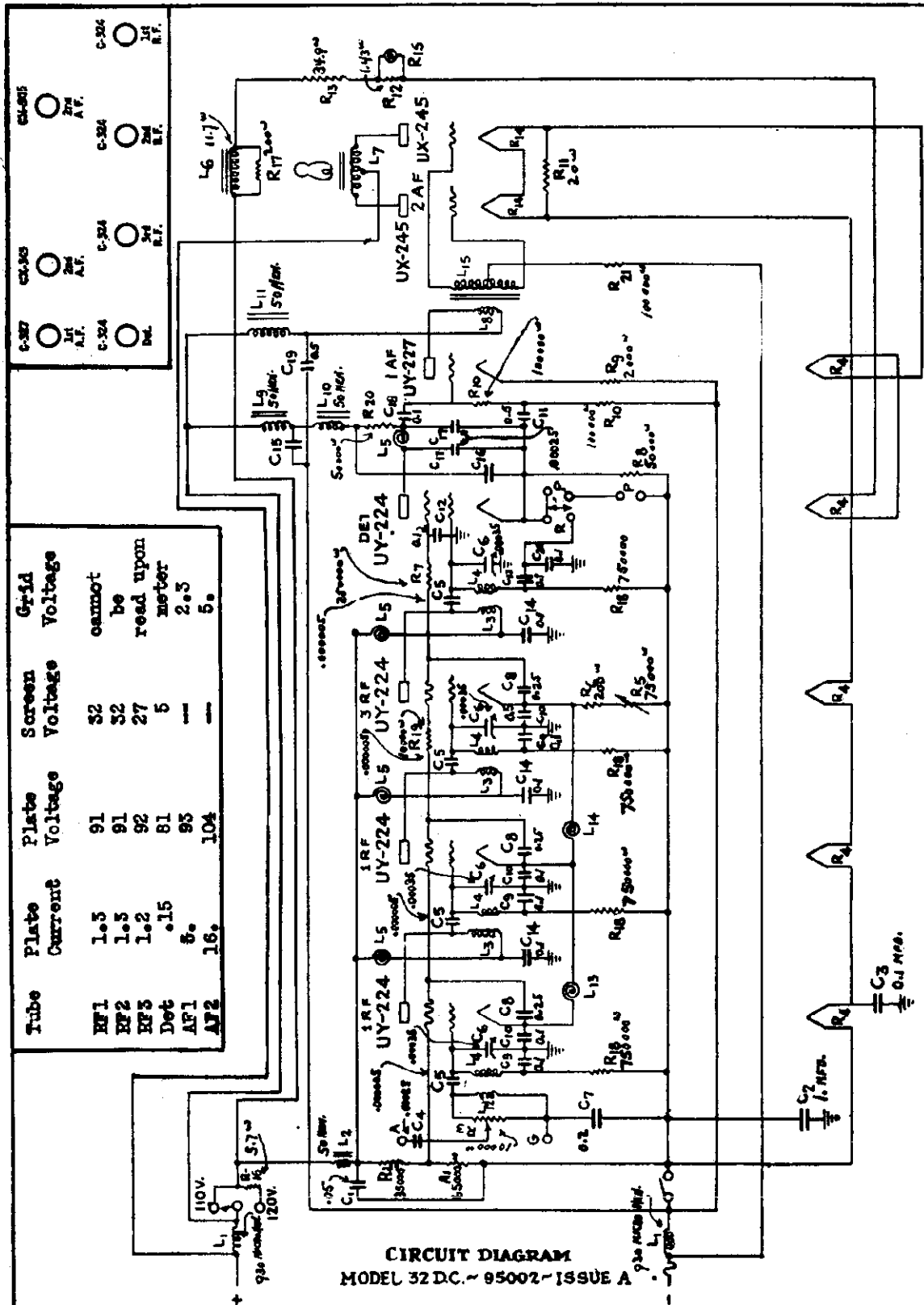
MODEL 31 AC

60001-5001



MODEL 32 DC

COLONIAL RADIO CORP.



CIRCUIT DIAGRAM
MODEL 32 DC - 95002-1 ISSUE A

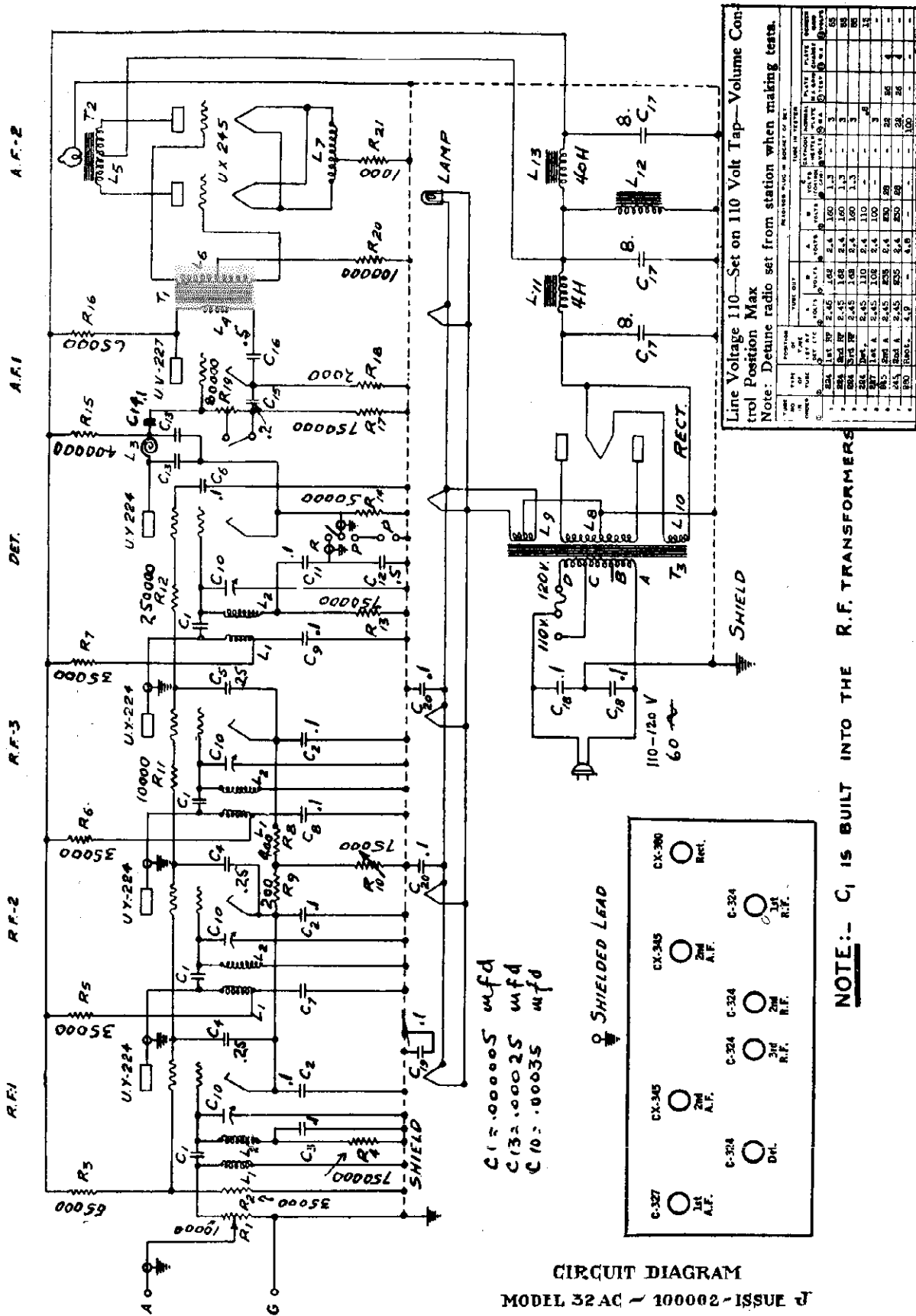
NOTE:- ALL GROUND CONNECTIONS SHOWN ARE TO CHASSIS.
C-5 IS BUILT INTO THE R.F. TRANSFORMER.

Chassis layout on next page.



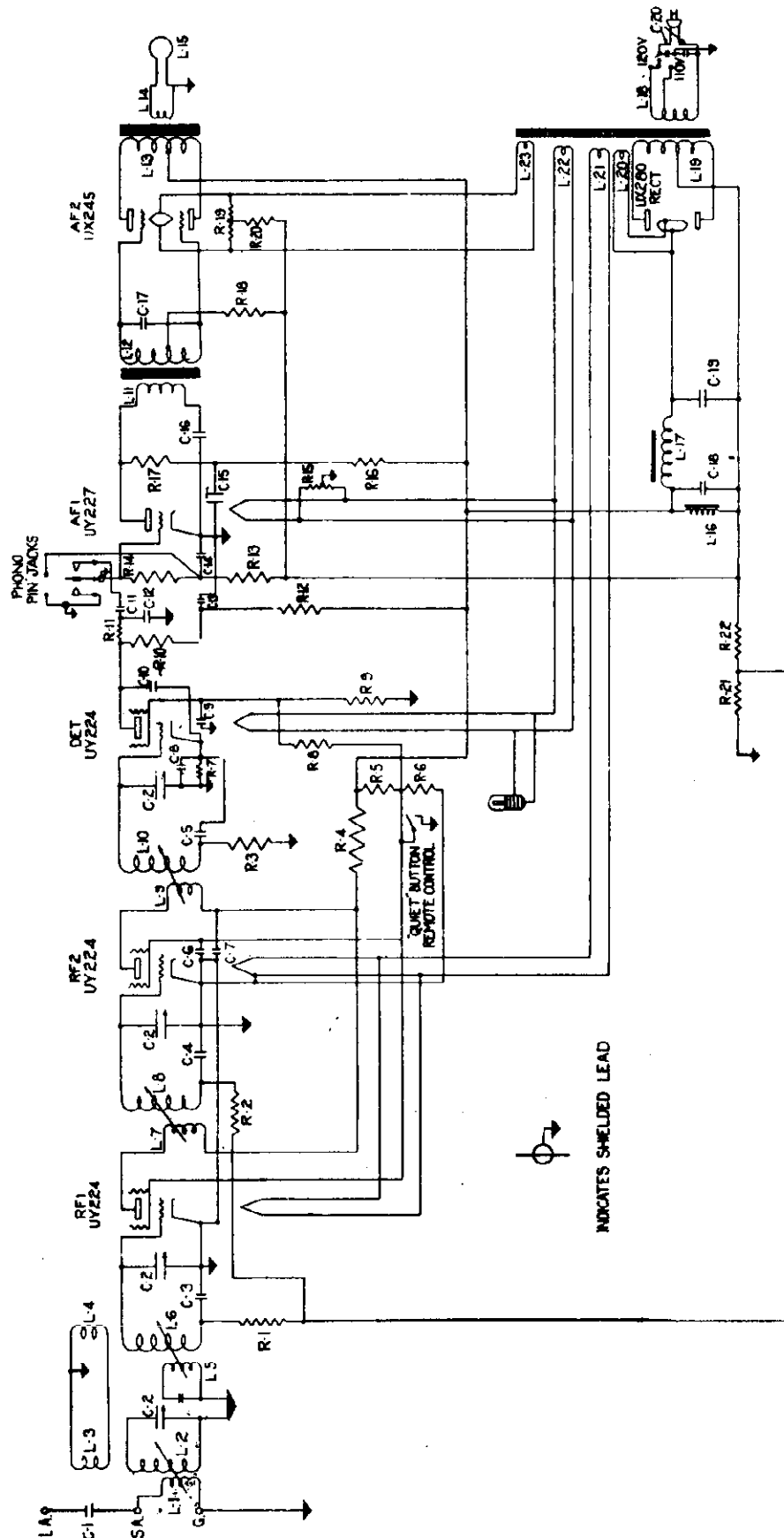
MODEL 32 AC
Schematic

COLONIAL RADIO CORP.



COLONIAL RADIO CORP.

MODEL 33, 34, 35 AC
Schematic



NOTE—In the 25 cycle models, R₃ is shorted out and there is an additional

1 mfd. condenser connected from the R.F. screen-grids to ground.

Socket layout on page 560

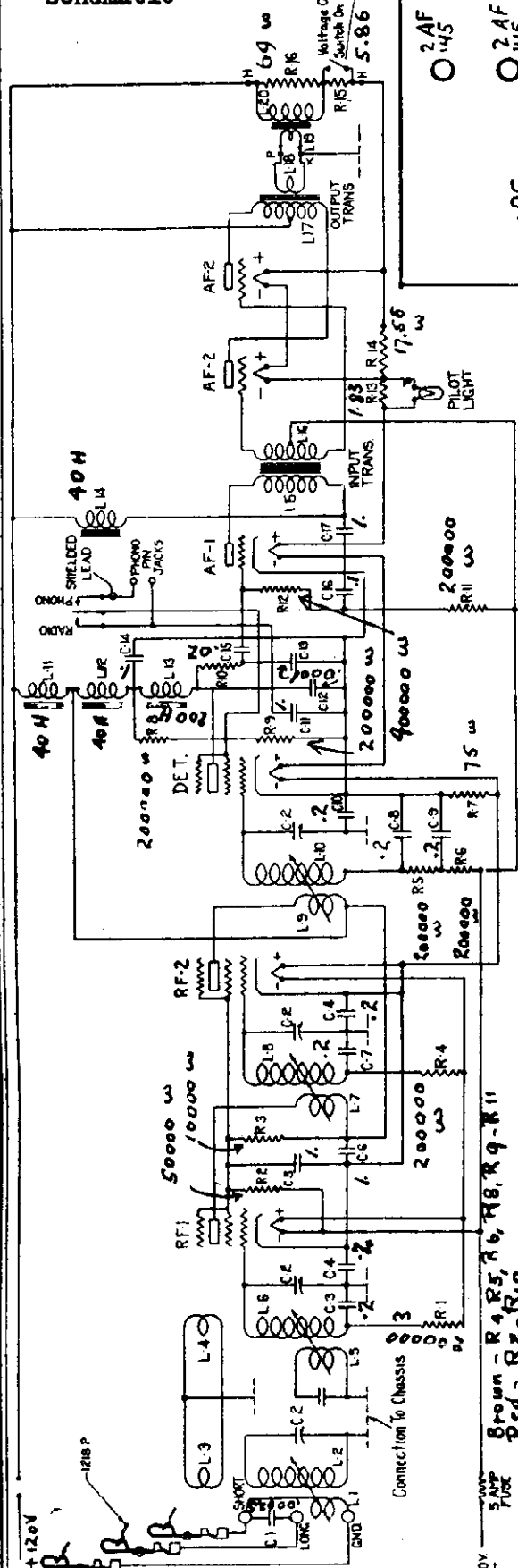
Remote Control tuning notes on page 560

Remote Control circuit on page 561

Electrical values on next page.

☐ 2AF
45
 ☐ 2AF
45
 ☐ 1AF
27
 ☐ DET.
24

1RF
24
 ☐ 2RF
24
 FRONT



CIRCUIT DIAGRAM MODEL 33 D.C.

TUBE VOLTAGE AND CURRENT READINGS
Actual Voltages Applied to Tubes

	RF1	RF2	Det.	AF1	AF2
Plate Voltage	110v.	110v.	105v.	110v.	110v.
Control-Grid Voltage	-2.3	-2.3	-4.8	-4.8	-13
Screen-Grid Voltage	72	72	40		
Plate Current	2.5 m.a.	2.5 m.a.	0.8 m.a.	4 m.a.	15 m.a.

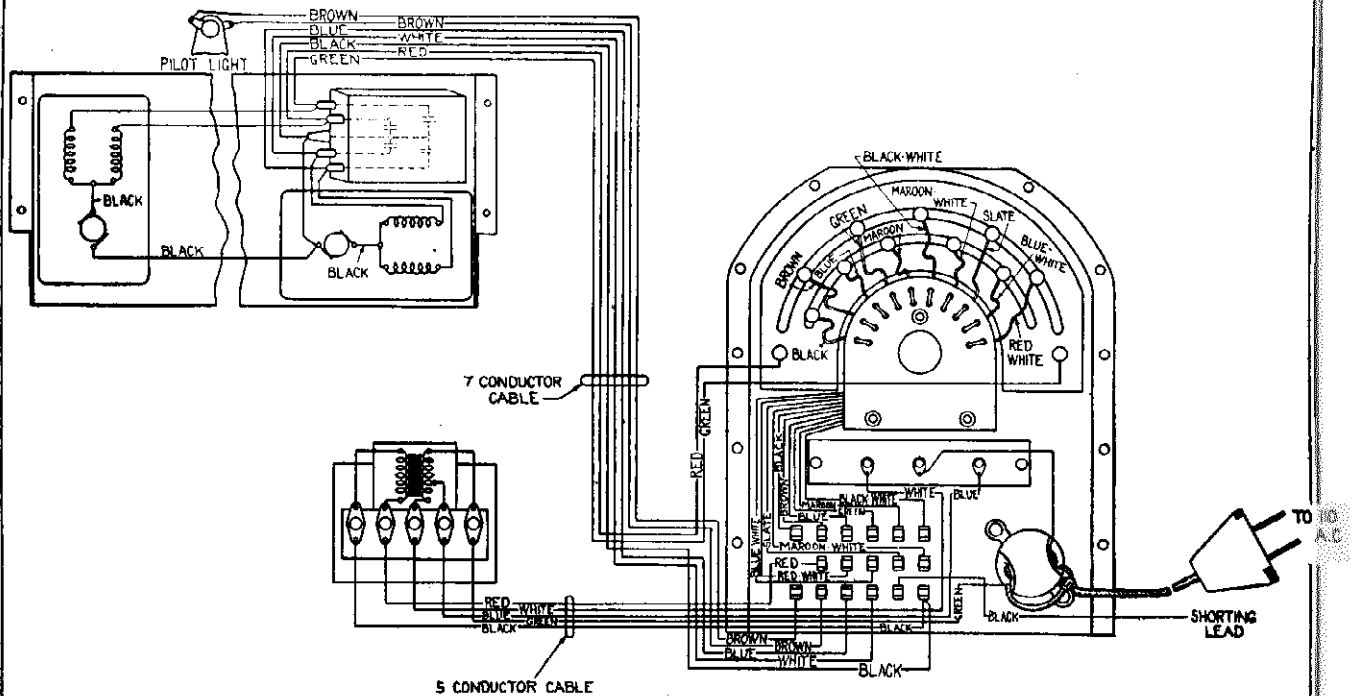
Voltages as Read on a 1000 OHMS Per Volt Meter

Plate Voltages on the 250 v. scale; Control-Grid Voltages on the 50 v. scale; Screen-Grid Voltages on the 100 v. scale

Plate Voltage	• 100 v.	100 v.	85 v.	100 v	100 v.
Control-Grid Voltage	-0.6	-0.6	-0.5	0.35	12
Screen-Grid Voltage	68	68	10		
Plate Current	2.5 m.a.	2.5 m.a.	0.8 m.a.	4 m.a.	15 m.a.

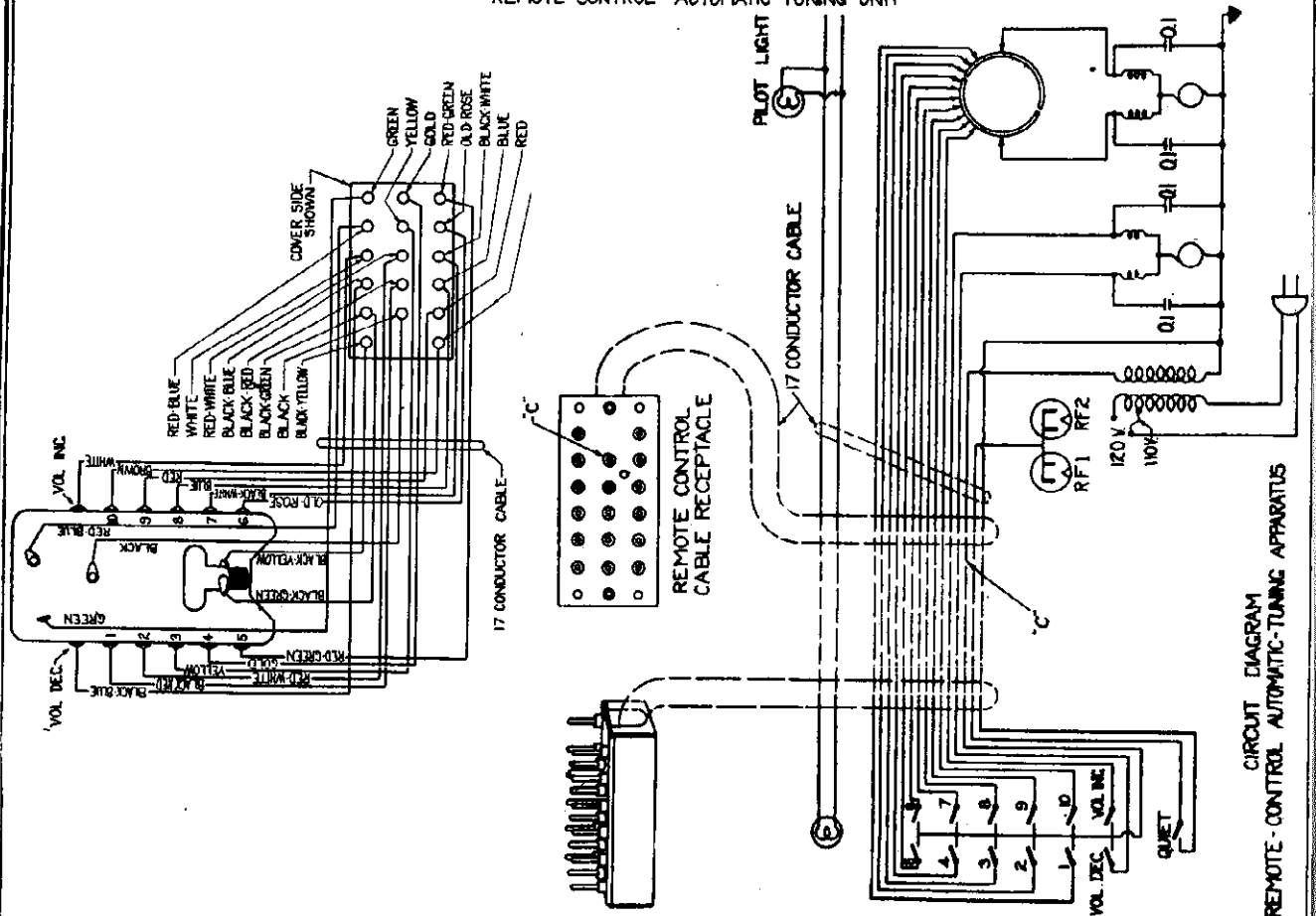
COLONIAL RADIO CORP.

MODEL 33,34,35 AC
Remote Control
Schematic



WIRING DIAGRAM

REMOTE-CONTROL AUTOMATIC-TUNING UNIT



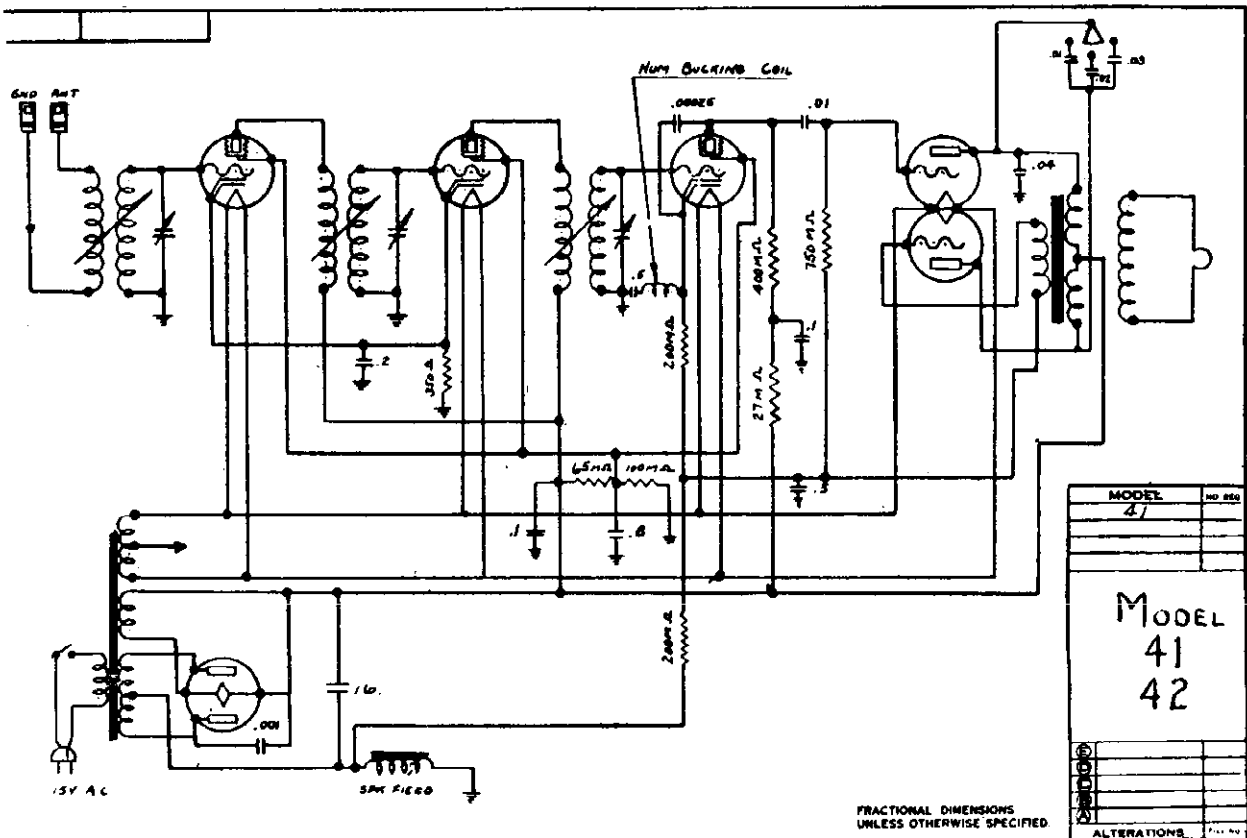
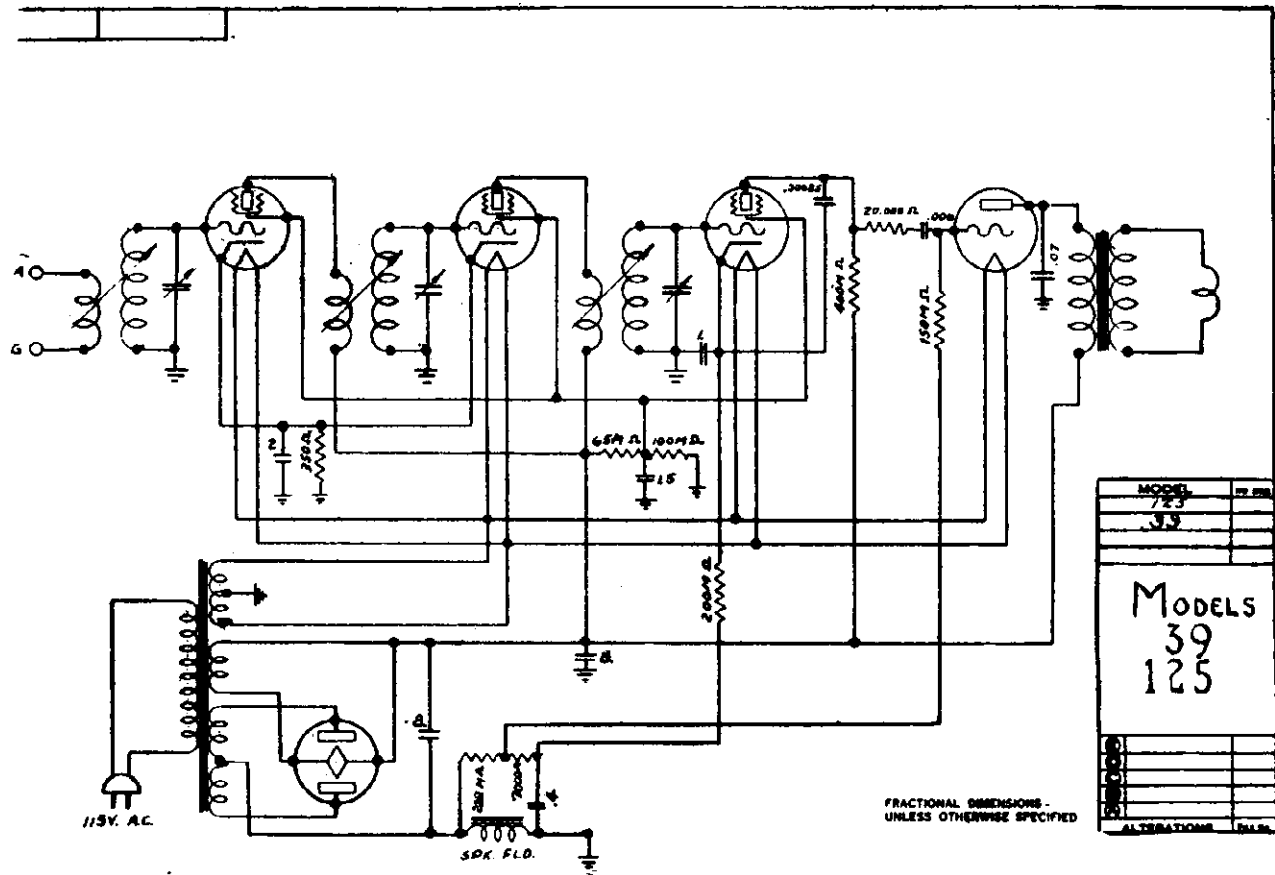
CIRCUIT DIAGRAM
REMOTE-CONTROL AUTOMATIC-TUNING APPARATUS

MODEL 39, 125

MODEL 41, 42

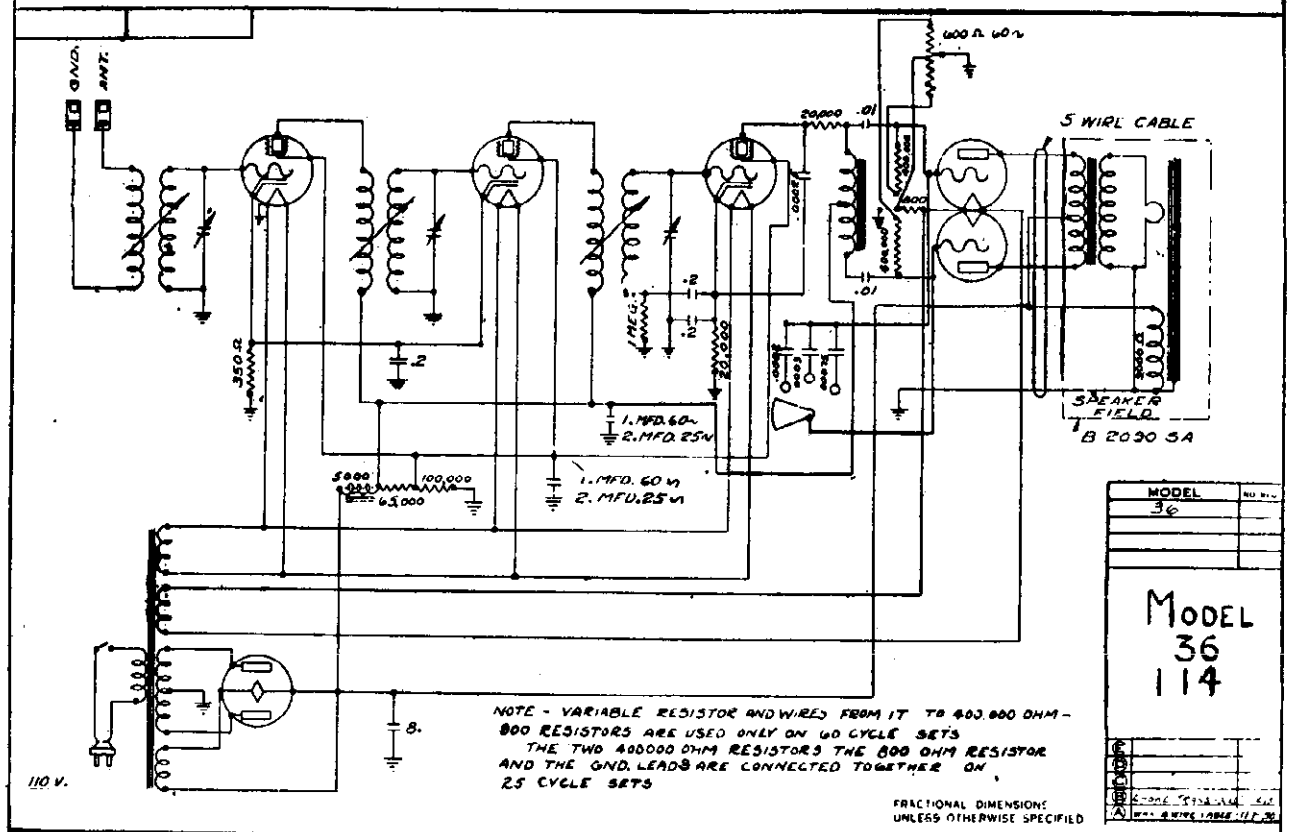
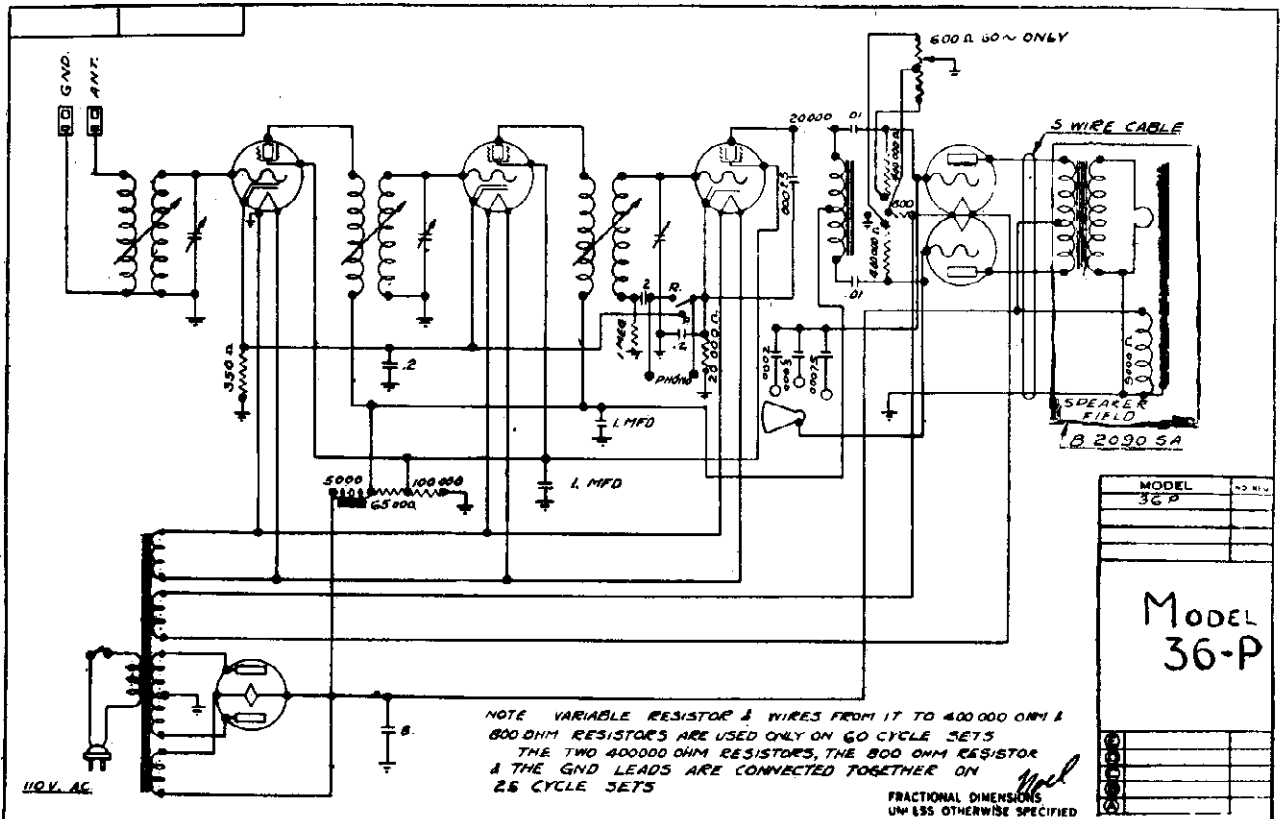
Schematics

COLONIAL RADIO CORP.

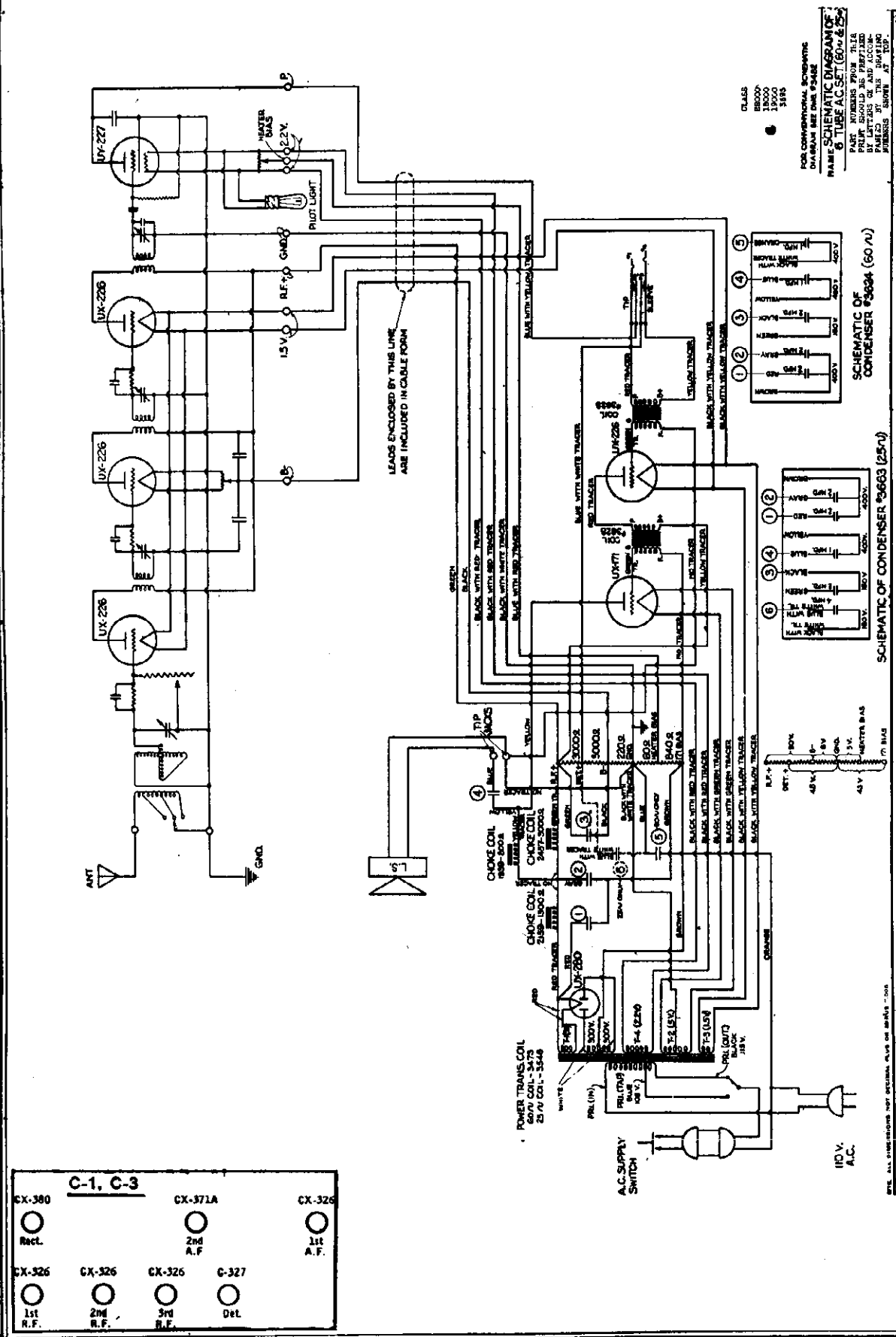


COLONIAL RADIO CORP.

MODEL 36
MODEL 36-P
MODEL 114

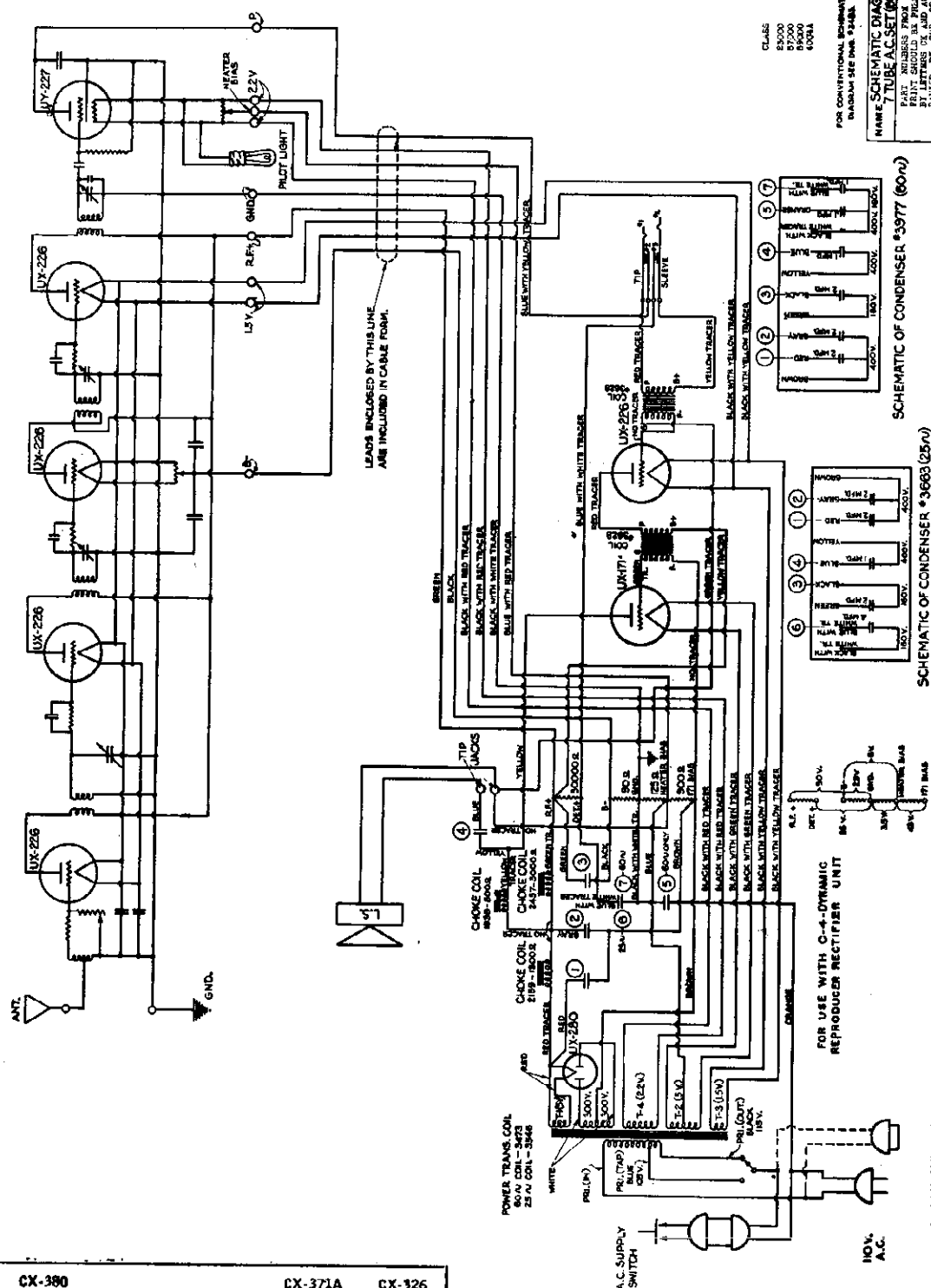


MODEL C-1,C-3
Schematic



MODEL C-2,C-4
Schematic

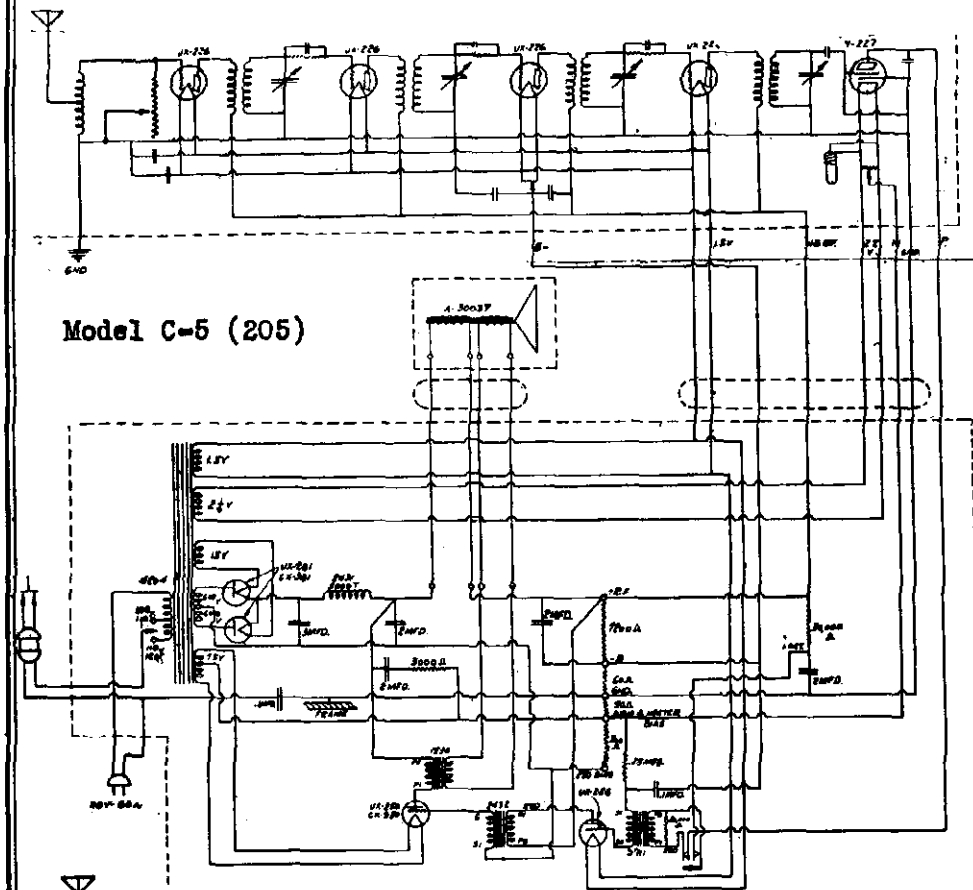
COLUMBIA PHONOGRAPH COMPANY



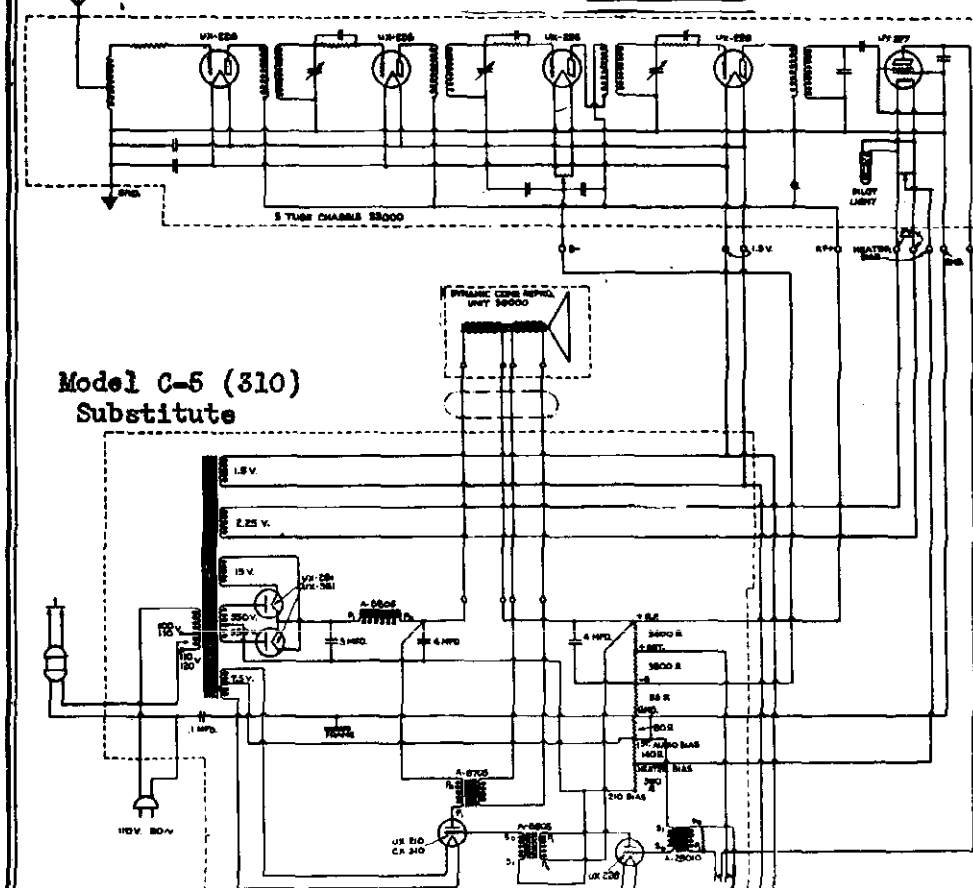
*This Model Uses a CX-381 Also for the Dynamic Speaker Field Supply.

COLUMBIA PHONOGRAPH COMPANY

MODEL C-5 (205)
MODEL C-5 (310)
Schematic
Voltage
Socket



Model C-5 (205)



Model C-5 (310)
Substitute

Line Voltage 116

TYPE OF TUBE	TYPE OF TUBE	TYPICAL PLUG IN SOCKET OF SET	TIME IN TESTER				TYPICAL PLUG IN SOCKET OF SET			
			1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH
225	1st. R.F.	1.43	80	1.4	84	2.0	8	8	8	8
225	2nd. R.F.	1.43	80	1.4	84	2.0	8	8	8	8
225	3rd. R.F.	1.43	80	1.4	84	2.0	8	8	8	8
225	4th. R.F.	1.43	80	1.4	84	2.0	8	8	8	8
227	1st. A.	1.56	88	1.4	72	2.0	8	8	8	8
210	2nd. A.	1.56	88	1.4	72	2.0	8	8	8	8
281	Rect.	7.9	512	7.4	430	32.0	24	28	4.0	-
281	Rect.	-	-	-	-	-	-	-	-	-
281	Rect.	-	-	-	-	-	-	-	-	-

(A.C.)

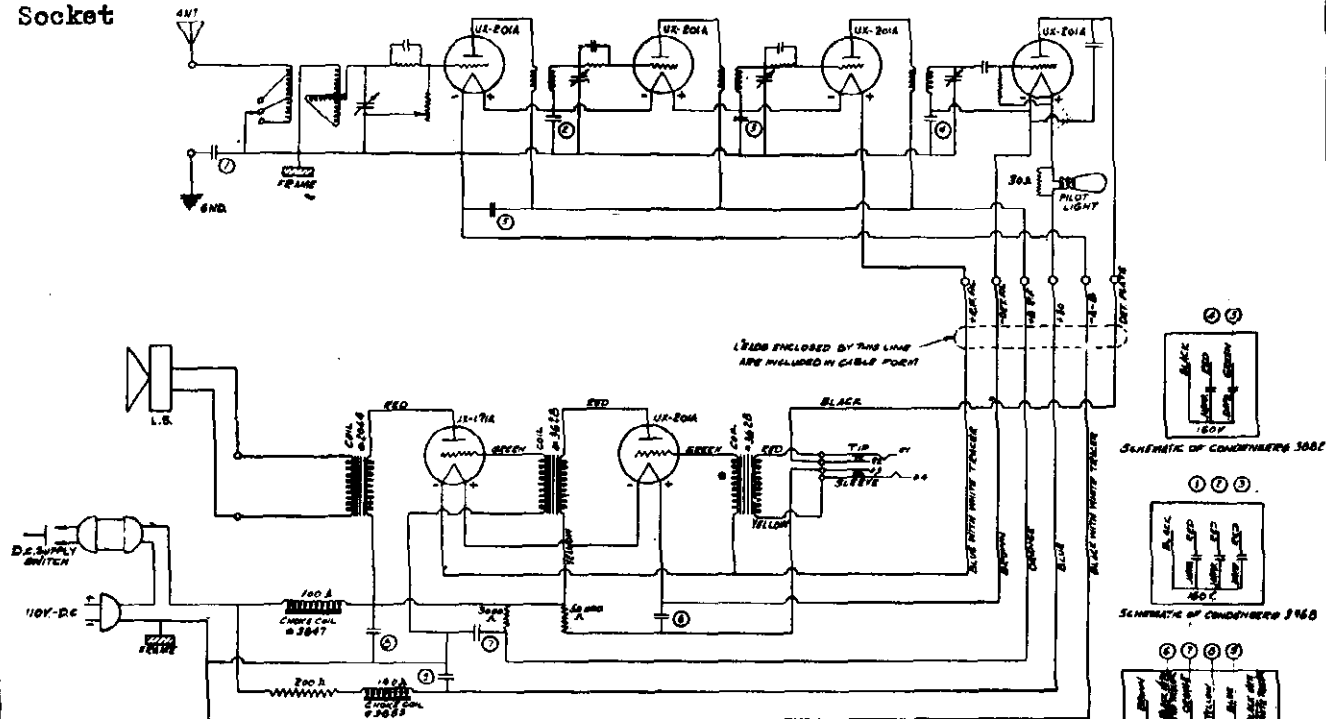
- 325-X2 ☐ 1st A.F.
- 310-X2 ☐ 2nd A.F.
- 381-X2 ☐ Rect.
- 381-X2 ☐ Rect.

C-5

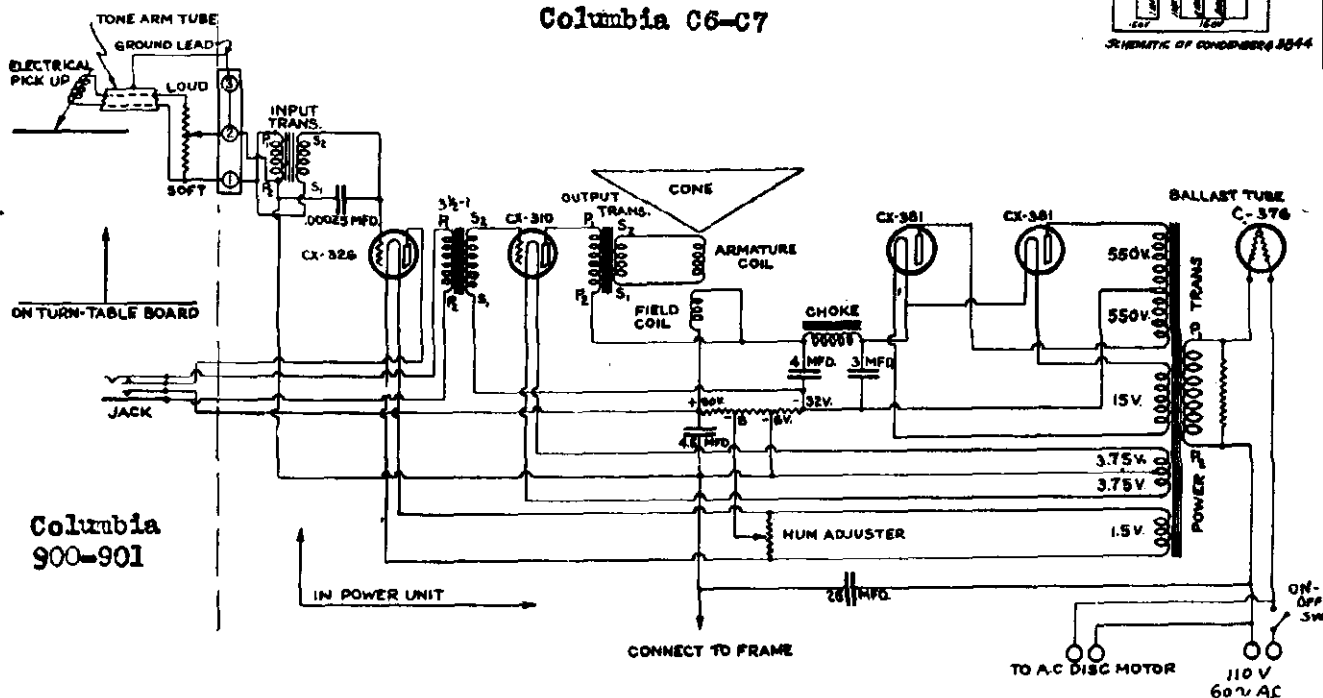
- 327 ☐ Del.
- 326 ☐ 4th R.F.
- 326 ☐ 3rd R.F.
- 326 ☐ 2nd R.F.
- 326 ☐ 1st R.F.

MODEL C-6, C-7
MODEL 900, 901
Schematic
Socket

COLUMBIA PHONOGRAPH COMPANY



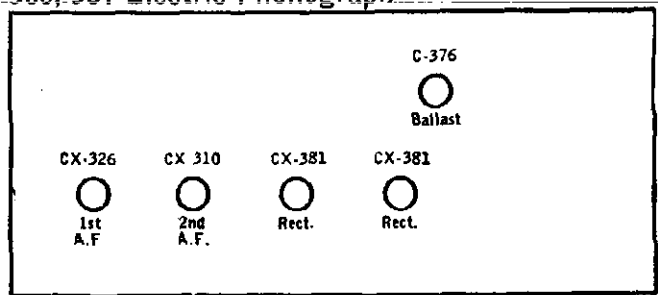
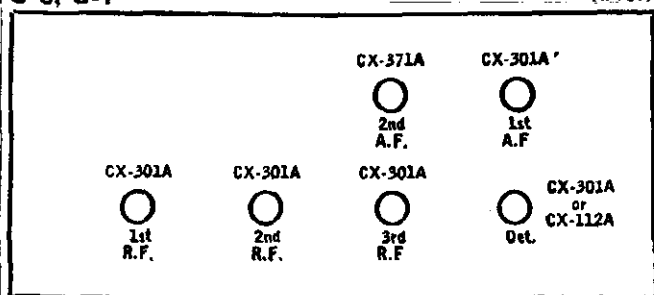
Columbia C6-C7



C-6, C-7

(D.C.) 900, 901 Electric Phonograph

(A.C.)



① ② ③ ④ ⑤ ⑥

COMMON

1 MFD.
400 V.

1.5 MFD.
160 V.





5 MFD.
160 V.

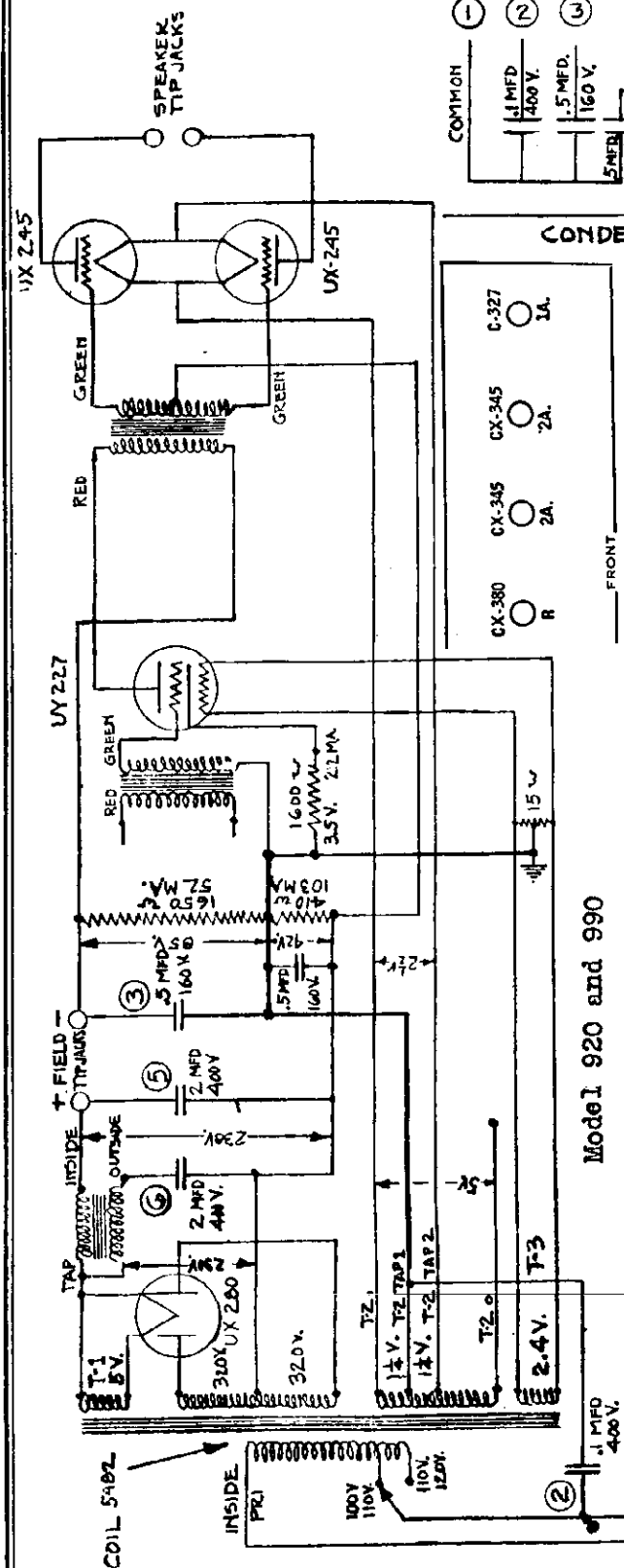
COMMON

2 MFD.
400 V.

2 MFD.
400 V.

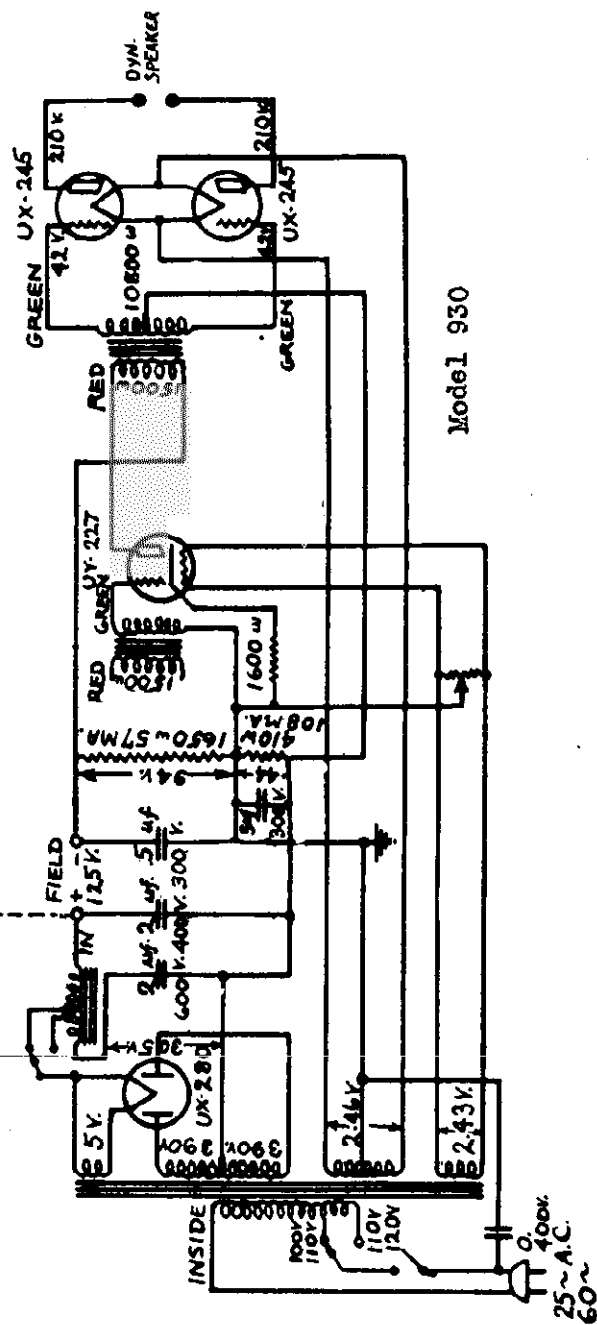
CONDENSER 5476

CX-326	CX-310	CX-381	CX-381
			
1st A.F.	2nd A.F.	Rect.	Rect.

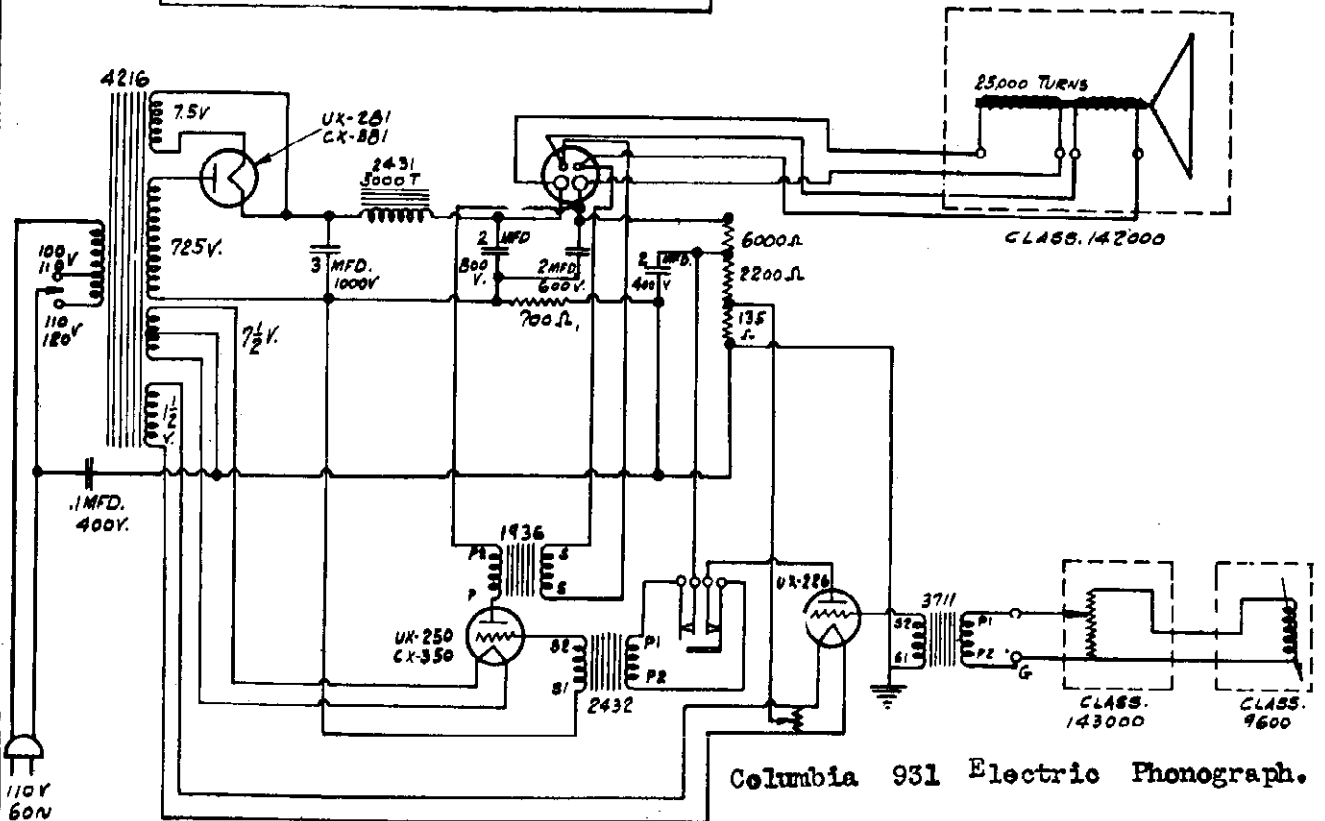
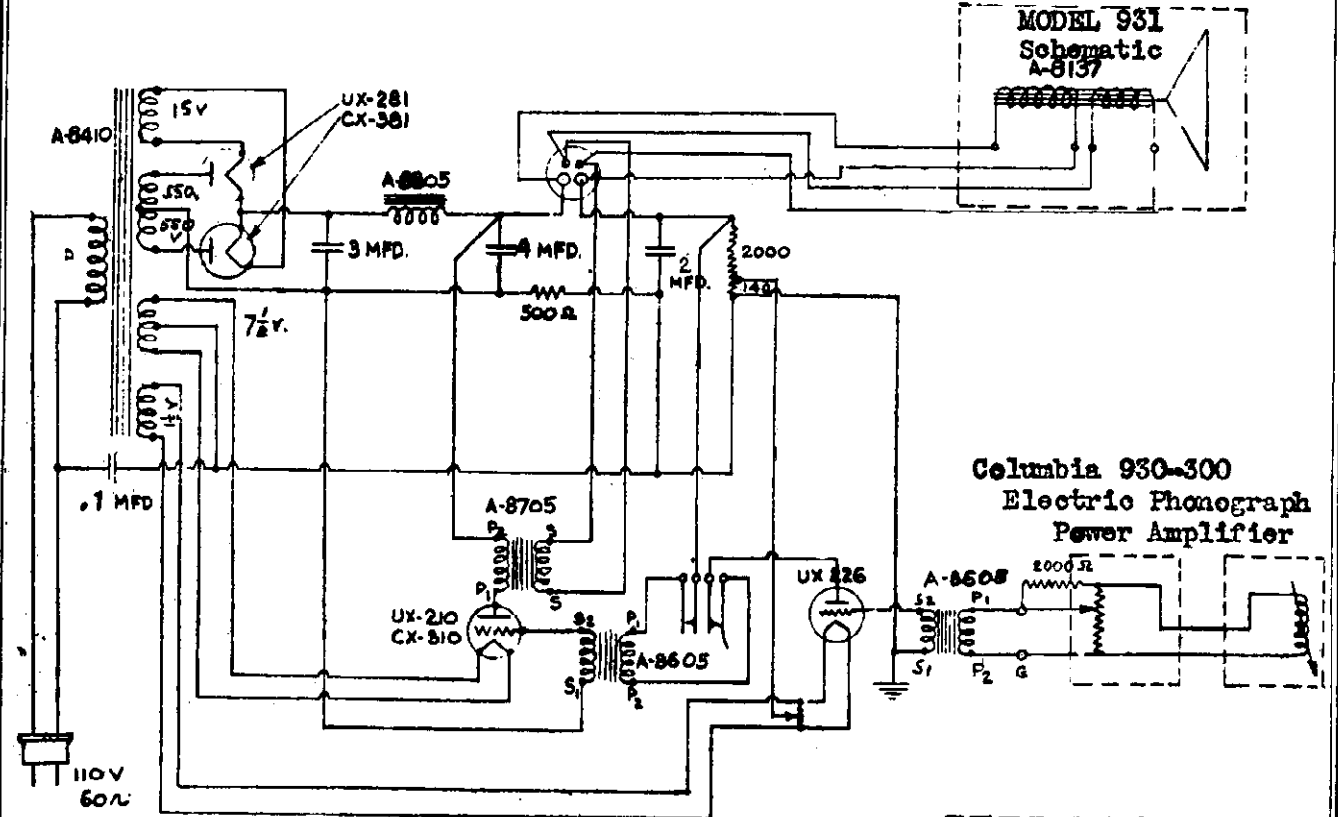


Model 920 and 990

..TO OUTPUT
TRANSFORMER



COLUMBIA PHONOGRAPH COMPANY MODEL 930-300



930 Electric Phonograph (A.C.)

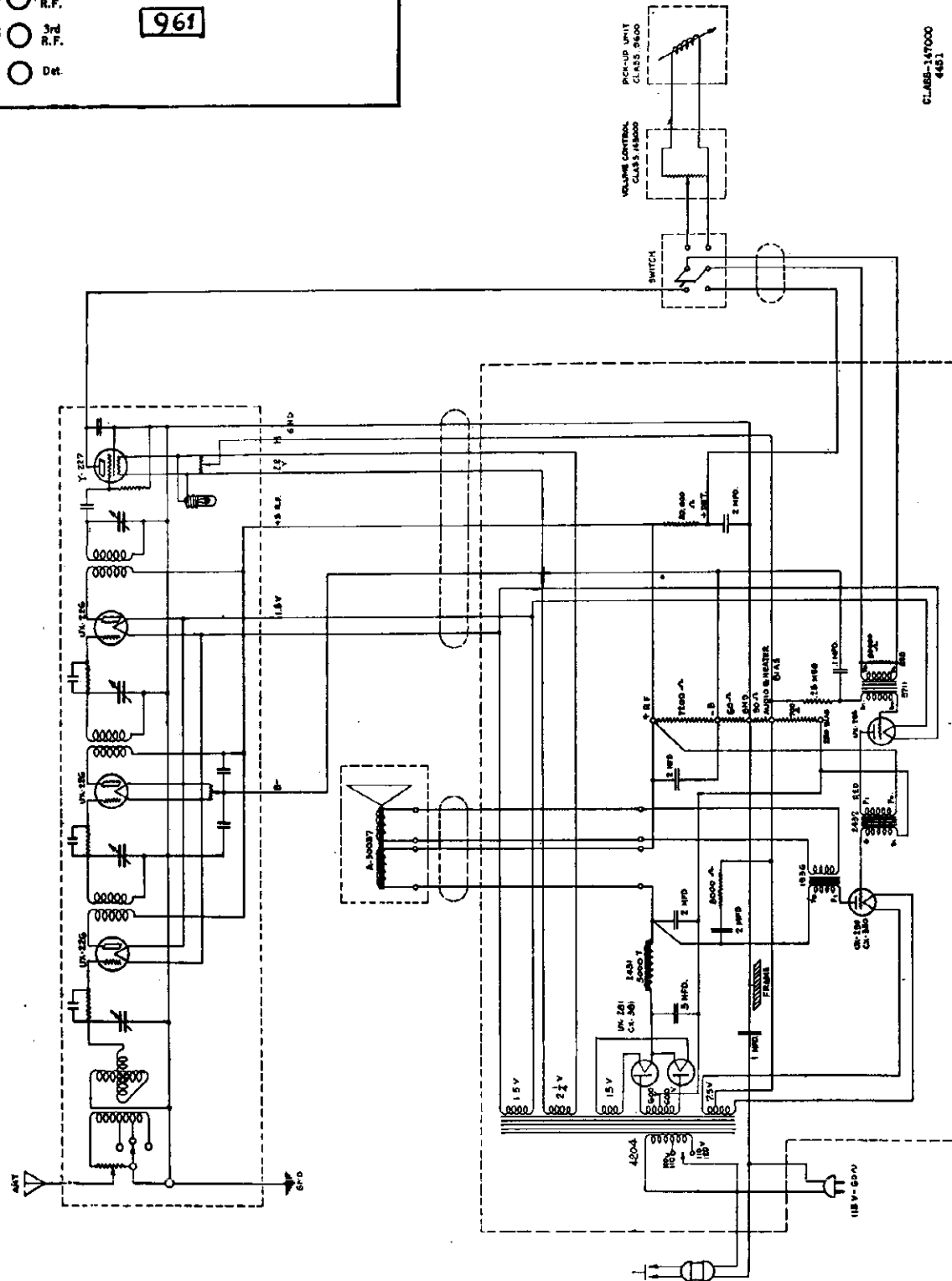
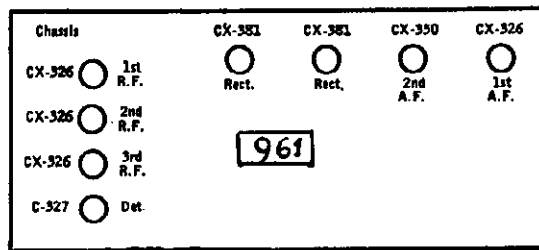
CX-326	CX-310	CX-381	CX-381
1st A.F.	2nd A.F.	Rect.	Rect.

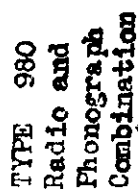
931 Electric Phonograph (A.C.)

CX-381	CX-381	CX-350	CX-326
Rect.	Rect.	2nd A.F.	1st A.F.

MODEL 961

COLUMBIA PHONOGRAPH COMPANY

CLAS-147000
4451



COLUMBIA RADIO CORPORATION

MODEL SG-8
Bottom View
#1

MODEL SG-8 BOTTOM VIEW

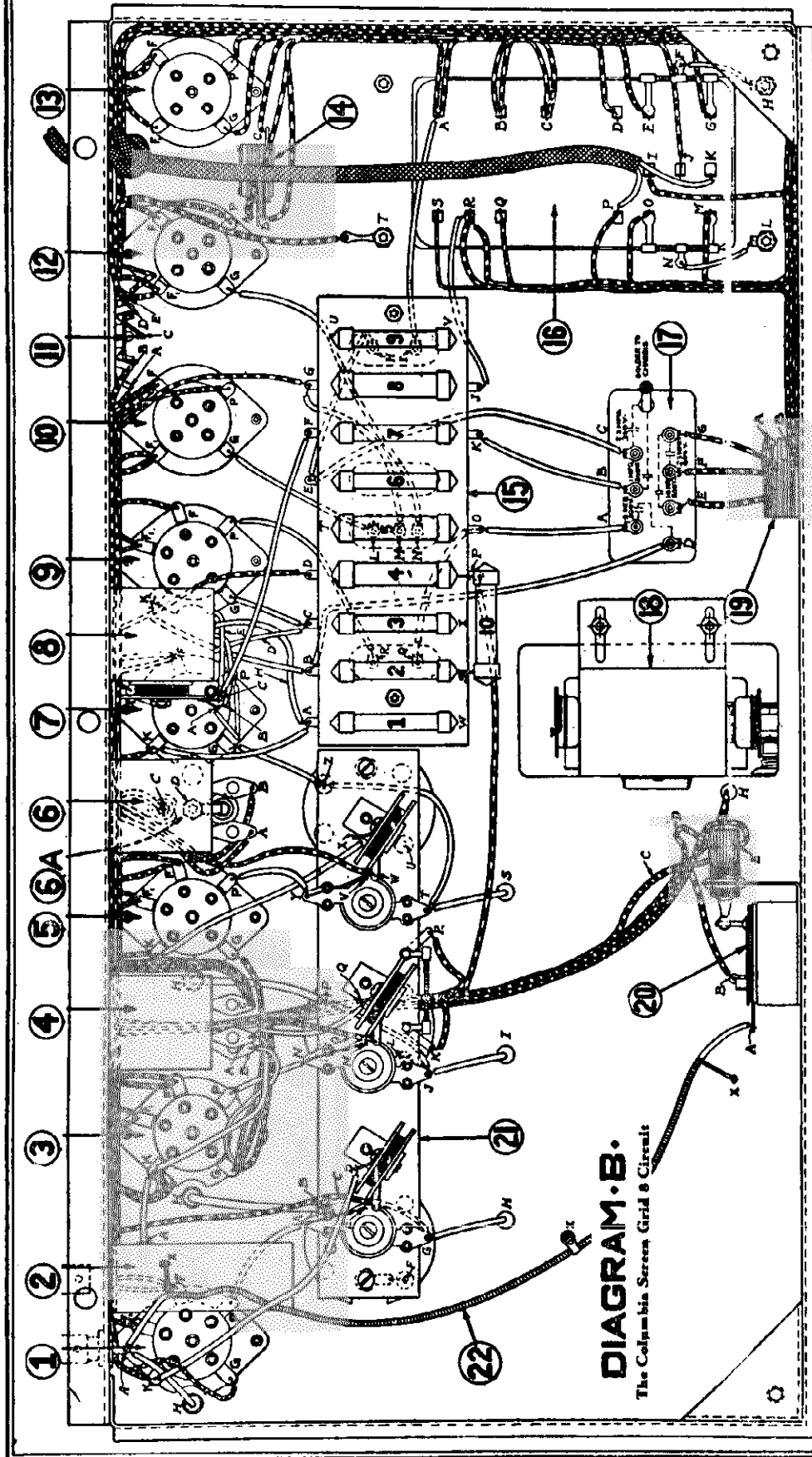


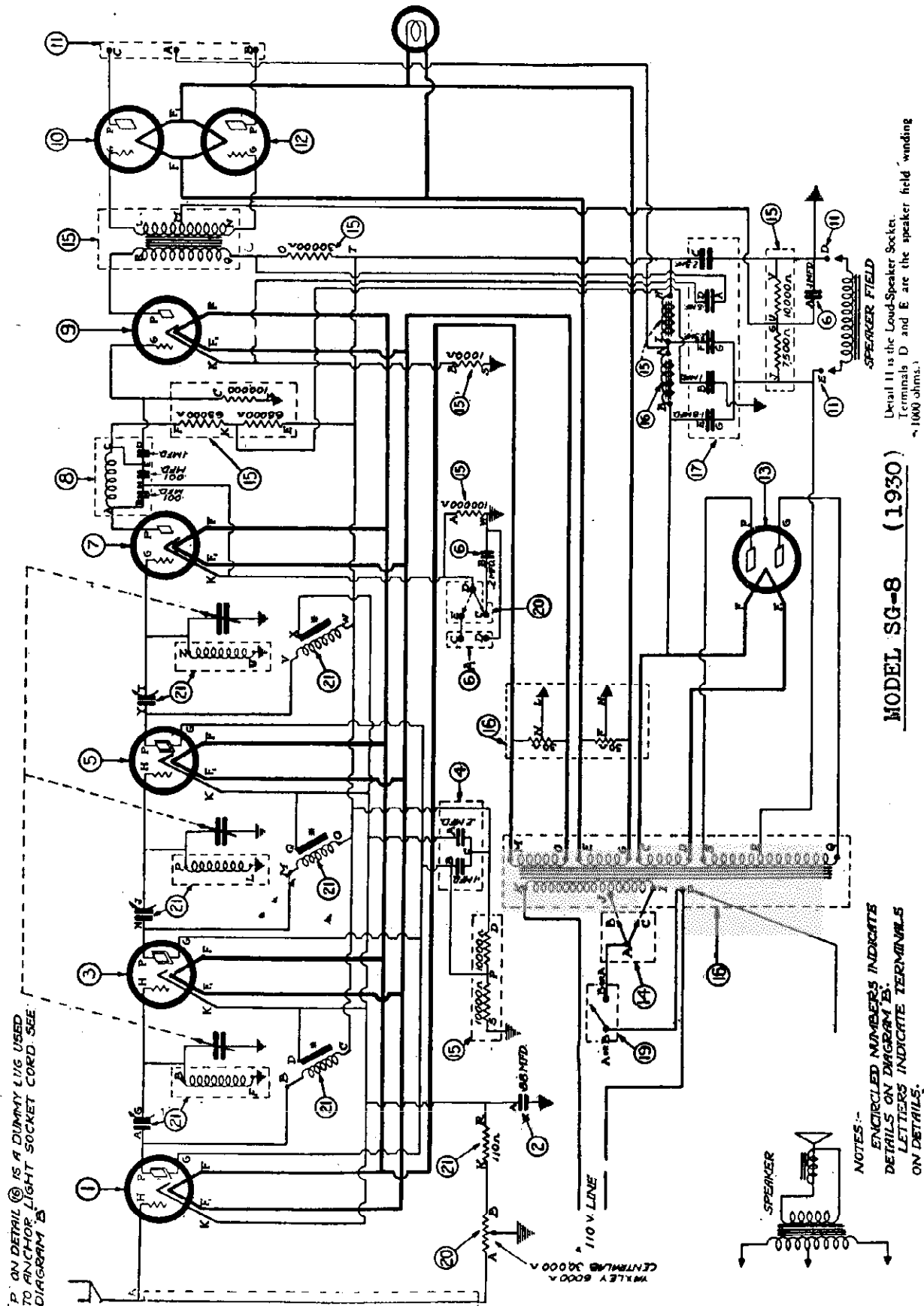
DIAGRAM B.
The Columbia Screen Grid 8 Circuits

Tube No. In Order	Type Of Tube	Position of Tube 1st R.F. Det., Etc.	Tube Out			Readings, Plug In Socket Of Set					Tube In Tester		
			A Volts (4)	B Volts (5)	A Volts (6)	B Volts (7)	C Volts (Control) (8)	Cathode - Heater Volts (9)	Normal Plate M.A. (10)	Plate M.A. Test (11)	Plate M.A. Grid Test (12)	Plate Change M.A. (12)	Screen Grid Volts (13)
1	224	1st R.F.	2.45	180	2.4	174	-1.5	1.5	4.5	6.7	6.7	2.2	80
2	224	2nd R.F.	2.45	180	2.4	174	-1.5	1.5	4.5	6.7	6.7	2.2	80
3	224	3rd R.F.	2.45	180	2.4	174	-1.5	1.5	4.5	6.7	6.7	2.2	80
4	227	Det.	2.45	106	2.4	106	-14.5	14.5	.2	3.8	3.8	.6	
5	227	1st A.F.	2.45	162	2.4	68	-3.8	3.8	3.2	23	23	3.	
6	245	2nd A.F.	2.35	230	2.2	212	-3.8	3.8	20	22	22	3.	
7	245	2nd A.F.	2.35	230	2.2	212	-3.8	3.8	19	22	22	3.	

Line Voltage 115. Set on Low (1) Volt Tap. Volume Control Position Maximum

MODEL SG-8
Schematic

COLUMBIA RADIO CORPORATION

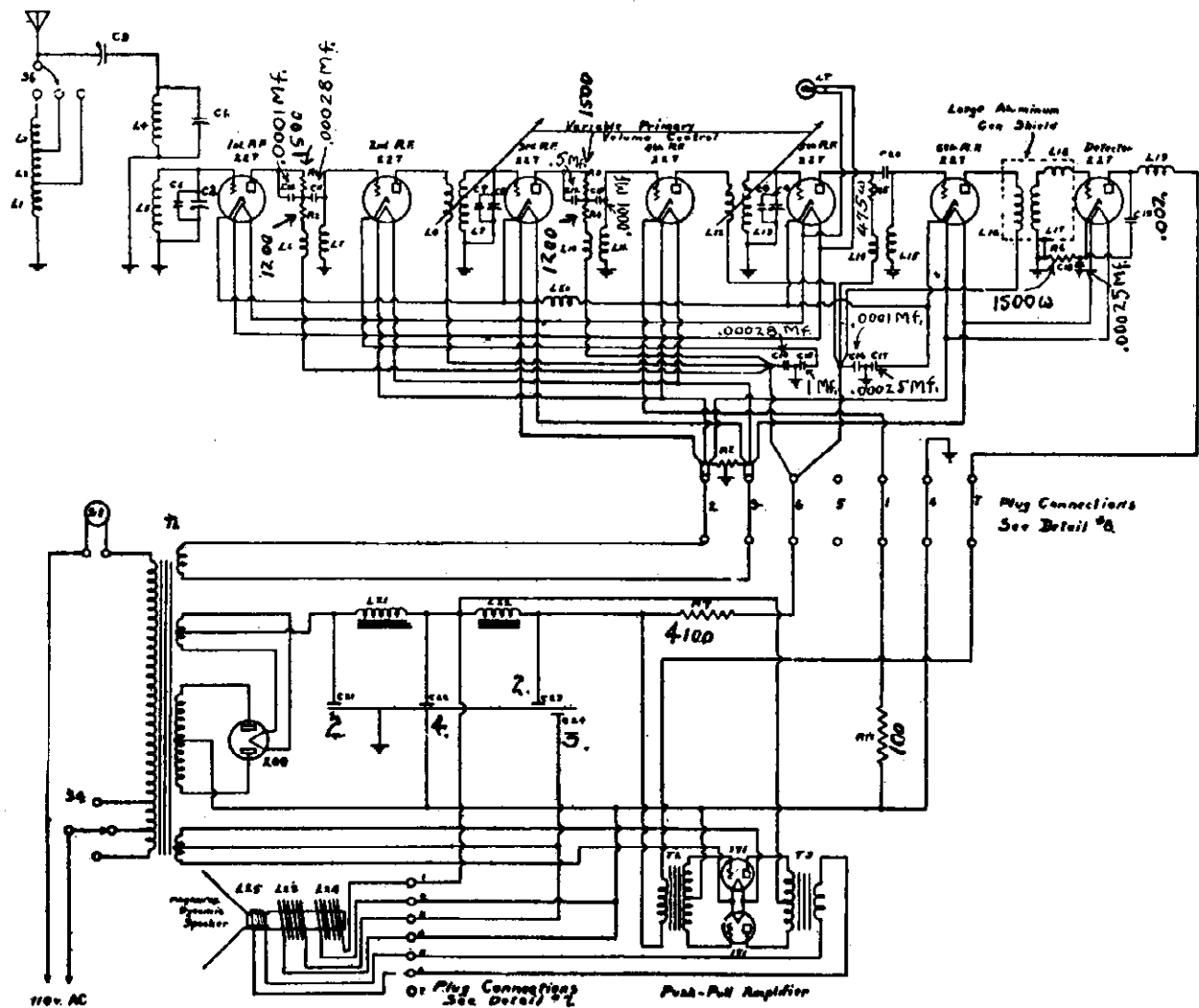


MODEL SG-8 (1930)

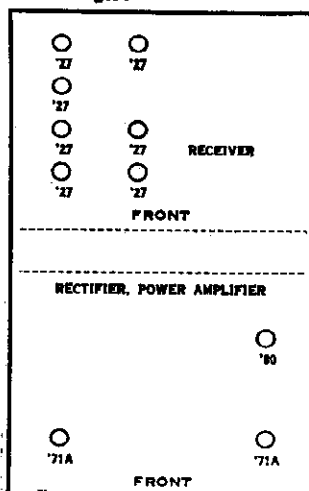
VOLTAGE DATA ON NEXT PAGE

NOTES:-
ENCIRCLED NUMBERS INDICATE
DETAILS ON DIAGRAM 15.
LETTERS INDICATE TERMINALS
ON DETAILS.
* INDICATES MOUNTING BRACKETS
ON DETAIL-2

MODEL "Slagle"
9 with
'71A's
Schematic



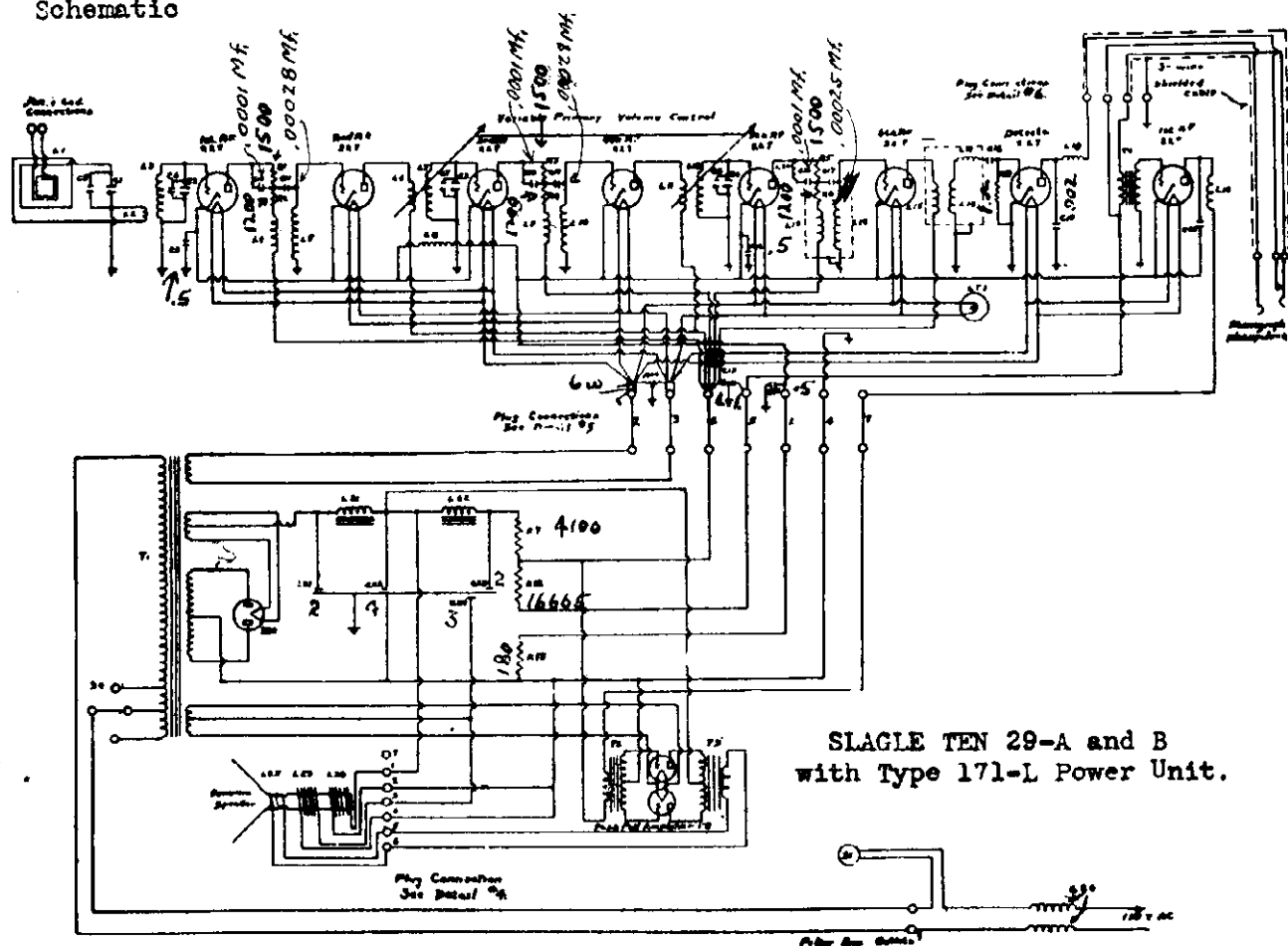
Model Slagle 9



Tube	Fil. Voltage	Plate Voltage	Plate Current	Grid Voltage	Cathode Plus
RF1	2.15	80	4.5ma	3.	3.
RF2	2.15	88	5.3	3.	3.
RF3	2.15	80	4.0	3.	3.
RF4	2.15	88	5.3	3.	3.
RF5	2.15	80	4.5	3.	3.
RF6	2.15	89	4.6	3.	3.
Det	2.15	180	1.	20.	
PF1	4.9	172	17.	37.	
PF2	4.9	172	17	37.	
Rec	4.5				

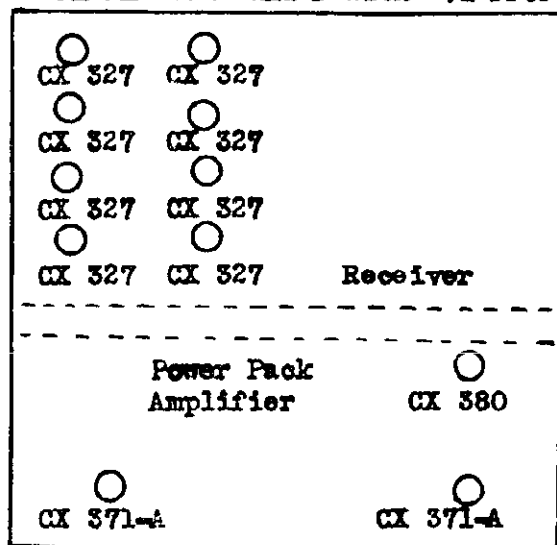
MODEL "Slagle"
10 29-A and
B with '71A
Power Pack.
Schematic

CONTINENTAL RADIO CORPORATION



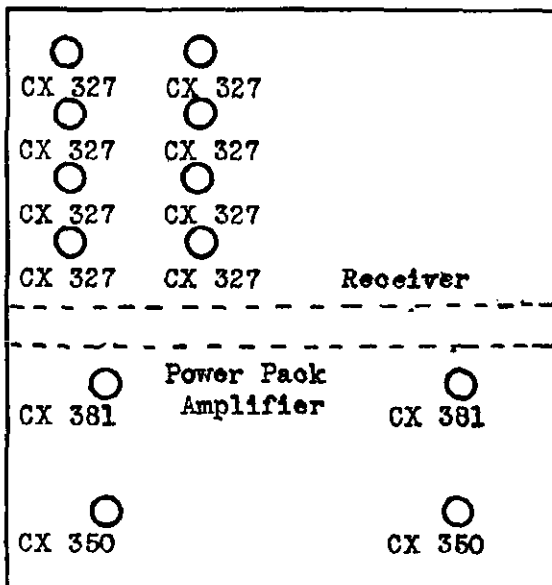
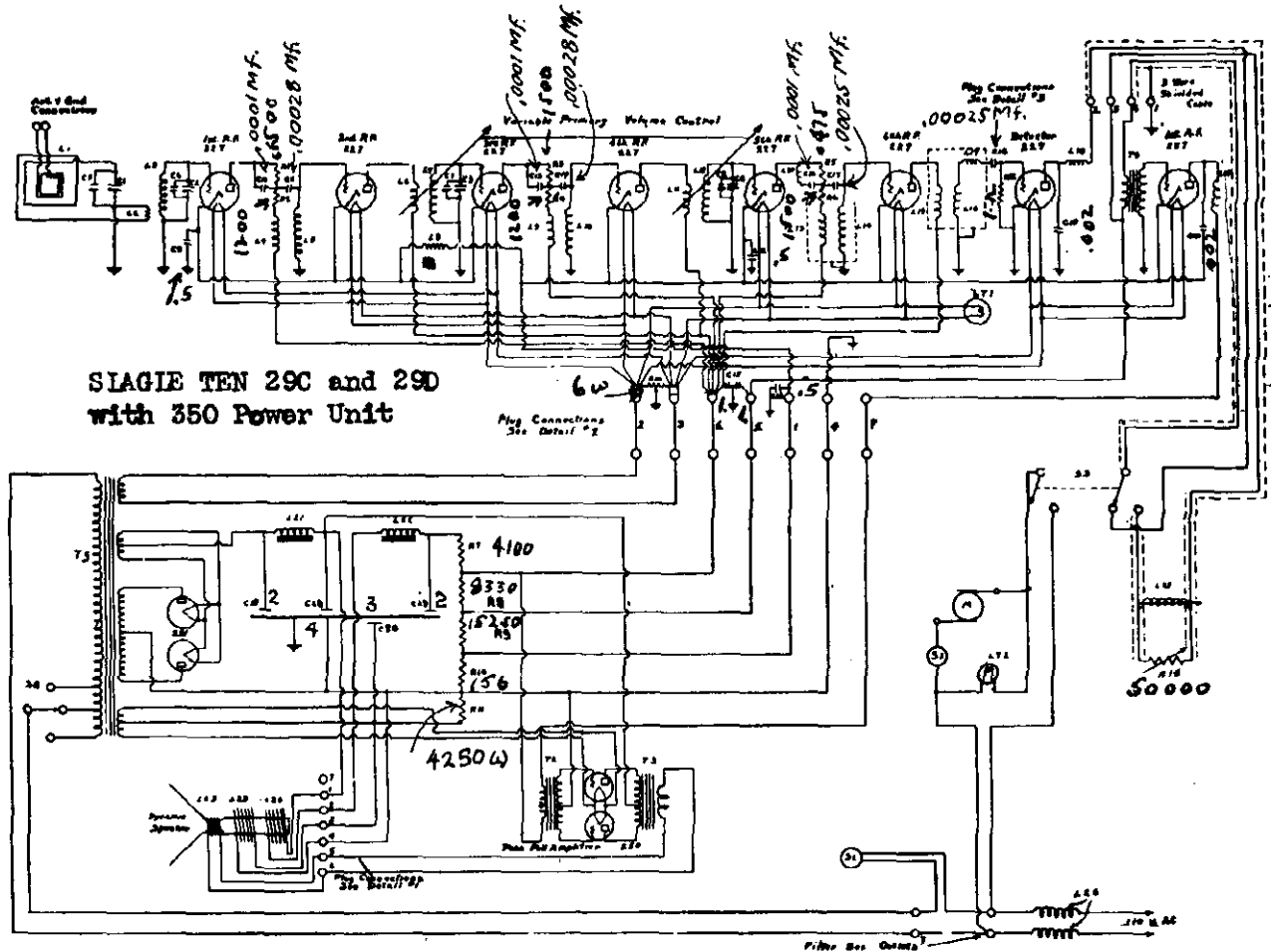
SLAGLE TEN 29-A and B
with Type 171-L Power Unit.

SLAGLE 29 A and B with '71 Pr.Pck.

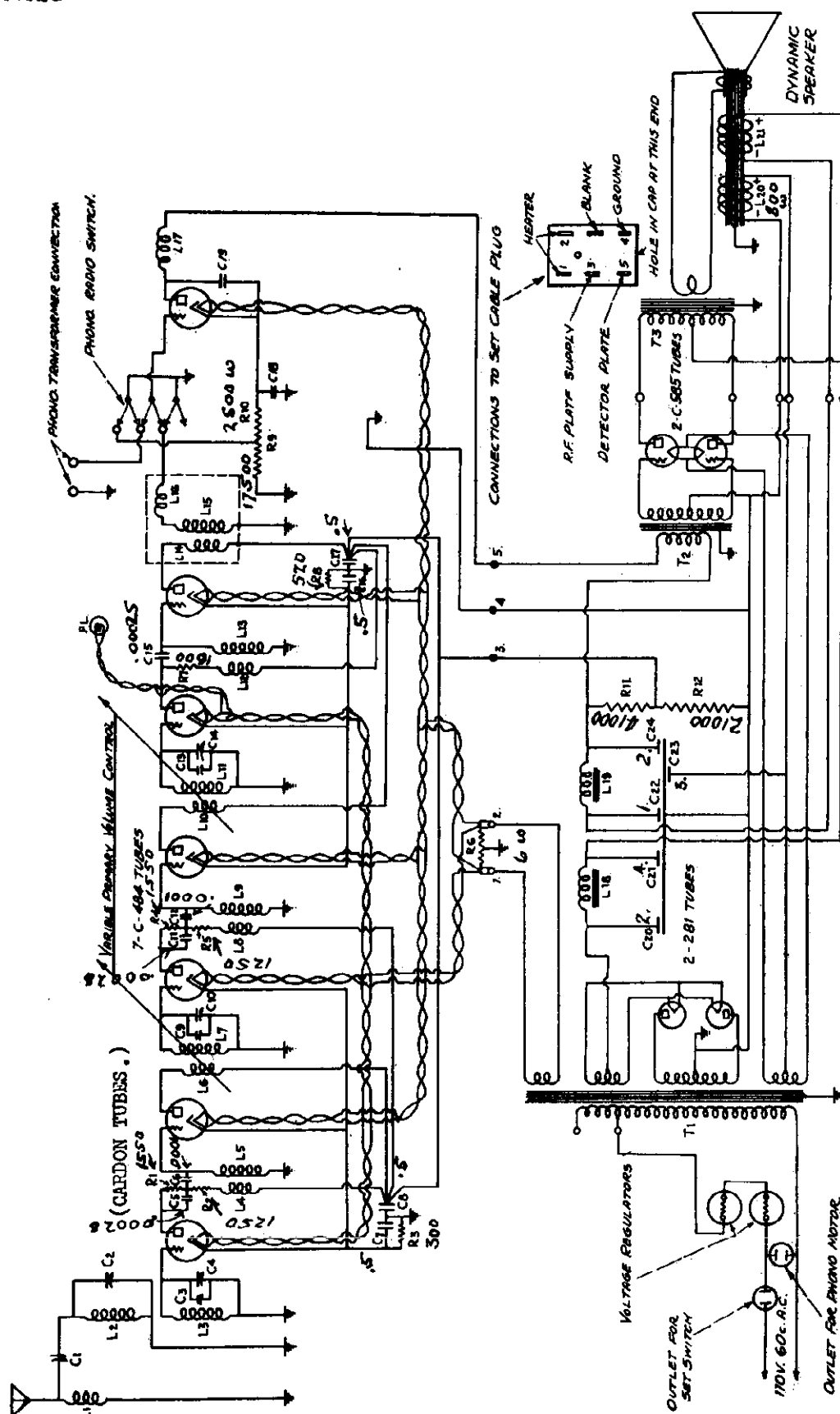


CONTINENTAL RADIO CORPORATION

MODEL "Slagle"
29-C and 29-D
with '50 Power
Pack.
Schematic

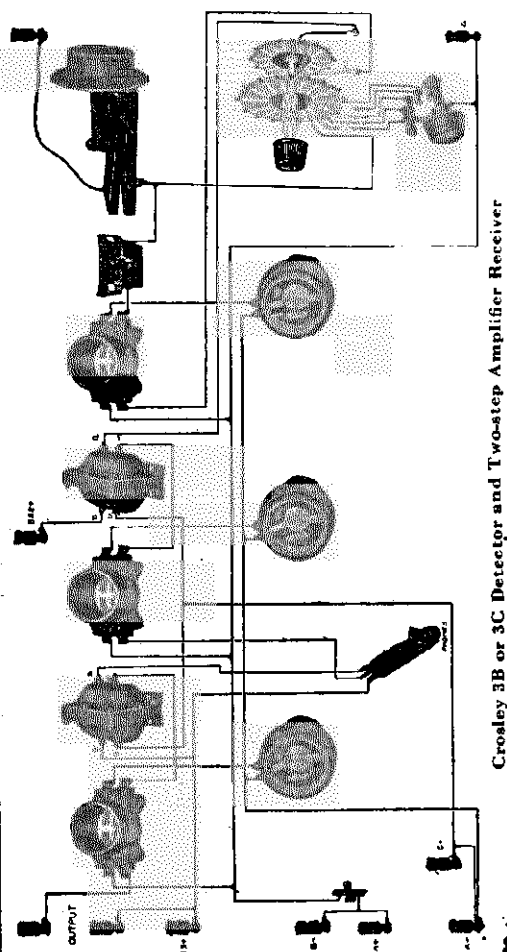


CONTINENTAL RADIO CORPORATION

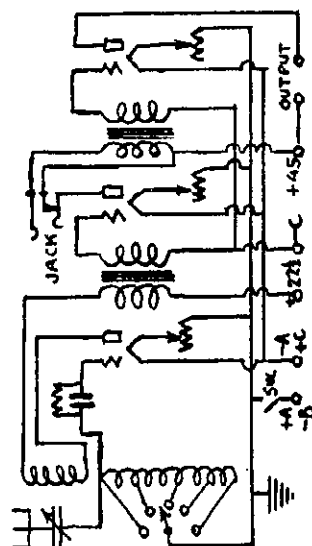


CROSLLEY RADIO CORP.

MODEL XJ, XL
MODEL 3B, 3C
Schematic



Crosley 3B or 3C Detector and Two-step Amplifier Receiver

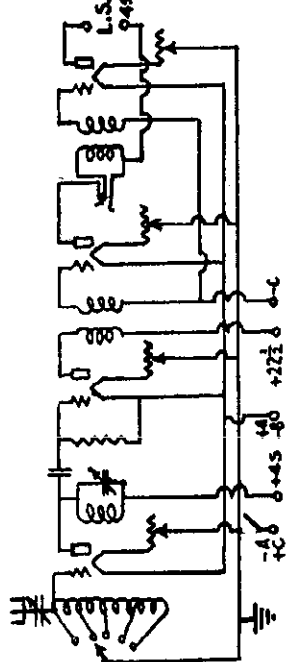


MODEL 3B or 3C

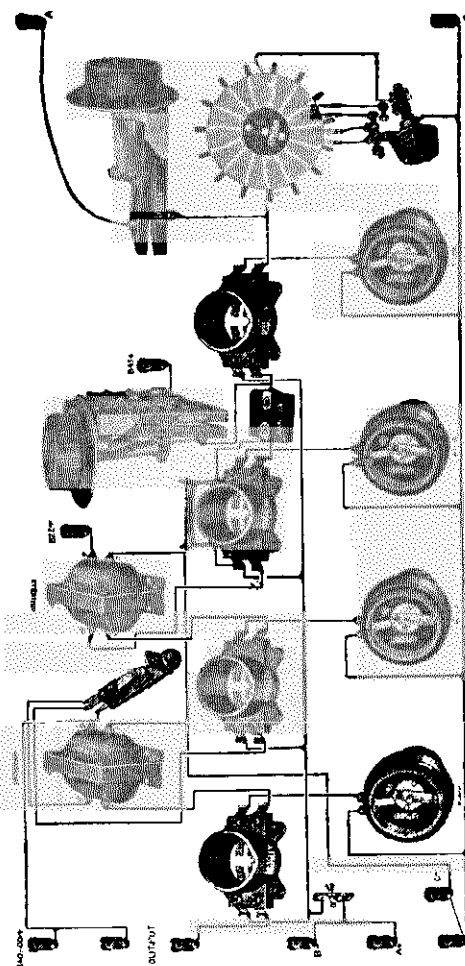
Model XJ

RF	DET	1 AF	2 AF
01A	01A	01A	01A
OR	OR	OR	OR
X'99	X'99	X'99	X'99
12	12	12	12

FRONT



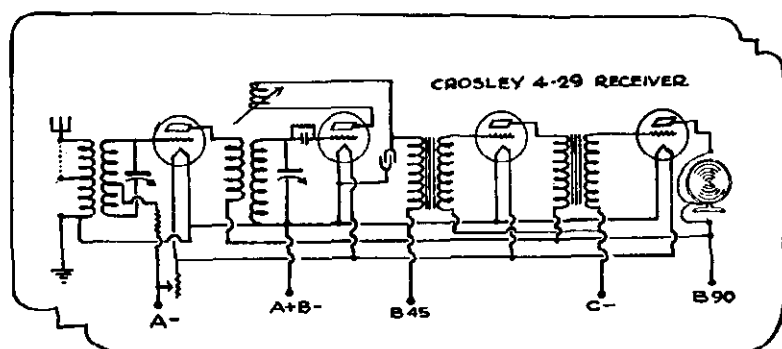
MODELS XJ and XL



Crosley Models XJ and XL Circuit

MODEL 4-29
MODEL RFL 60,75
Schematic

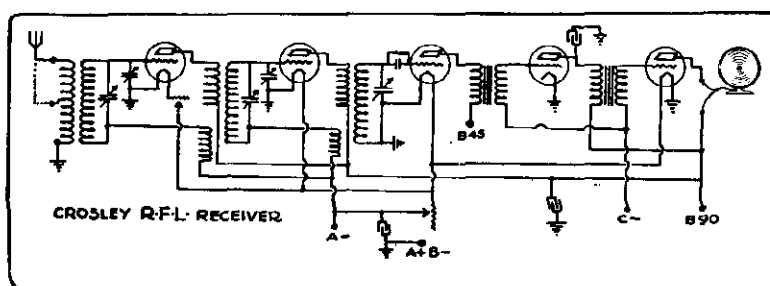
CROSLEY RADIO CORP.



Model 4-29

RF	2 AF	1 AF	DET
6X4	6AR5	6AR5	6AR5
OR	OR	OR	OR
6X4	6AR5	6AR5	6AR5
OR	OR	OR	OR
12	12	12	12

FRONT



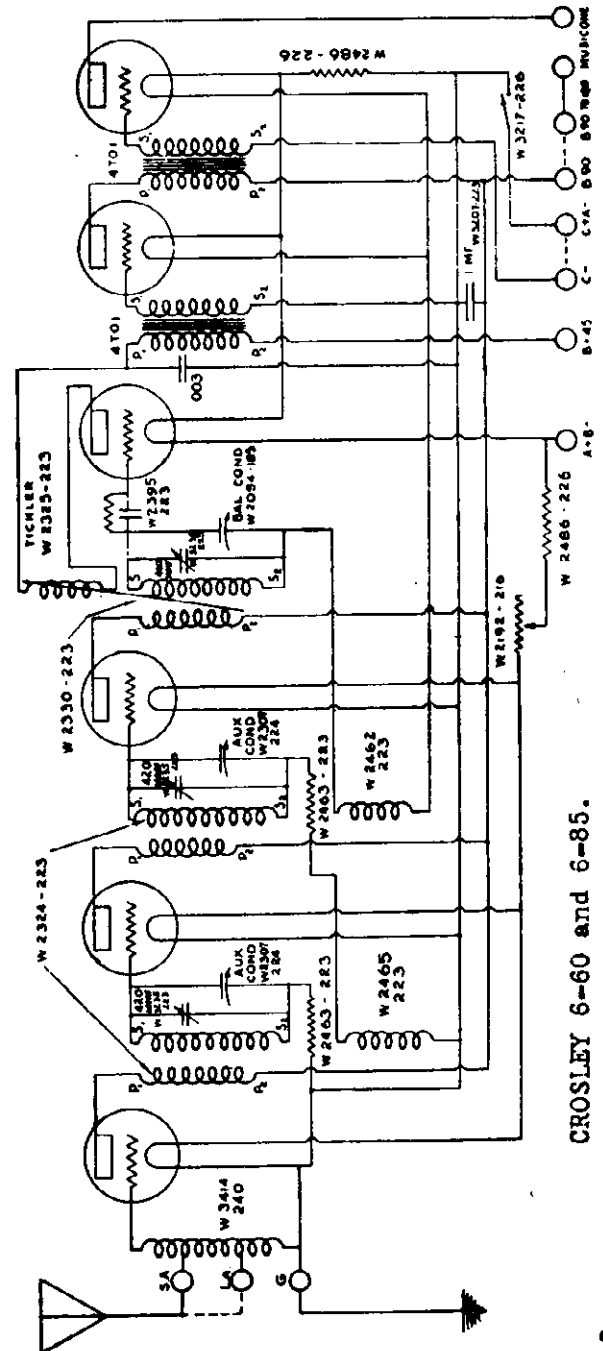
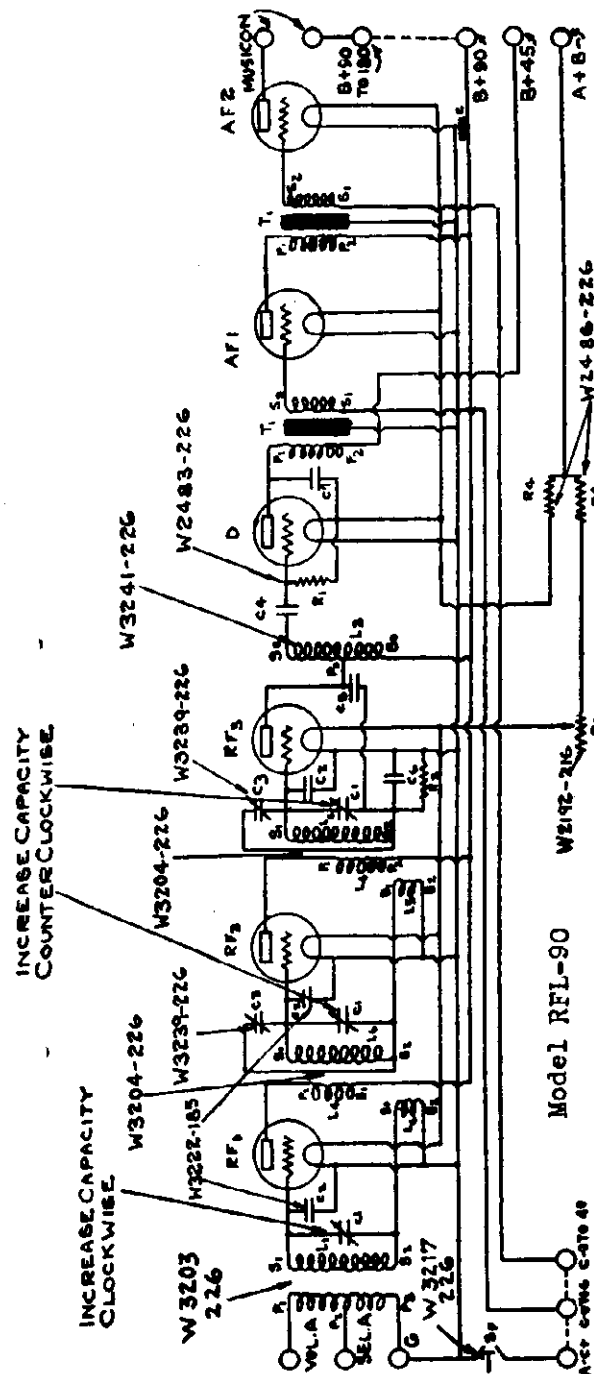
Models RFL60, 75

2 AF	1 AF	DET
6AR5	6AR5	6AR5
OR	OR	OR
6AR5	6AR5	6AR5
OR	OR	OR
12	12	12

FRONT

CROSLY RADIO CORP.

MODEL RFL 90
MODEL 6-60, 6-85
Schematic

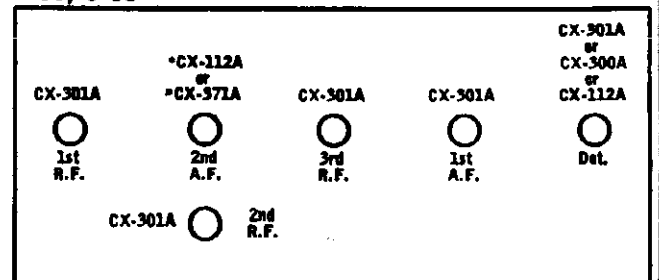
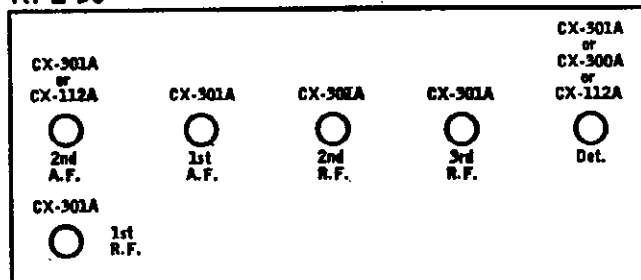


RFL 90

(Batt.)

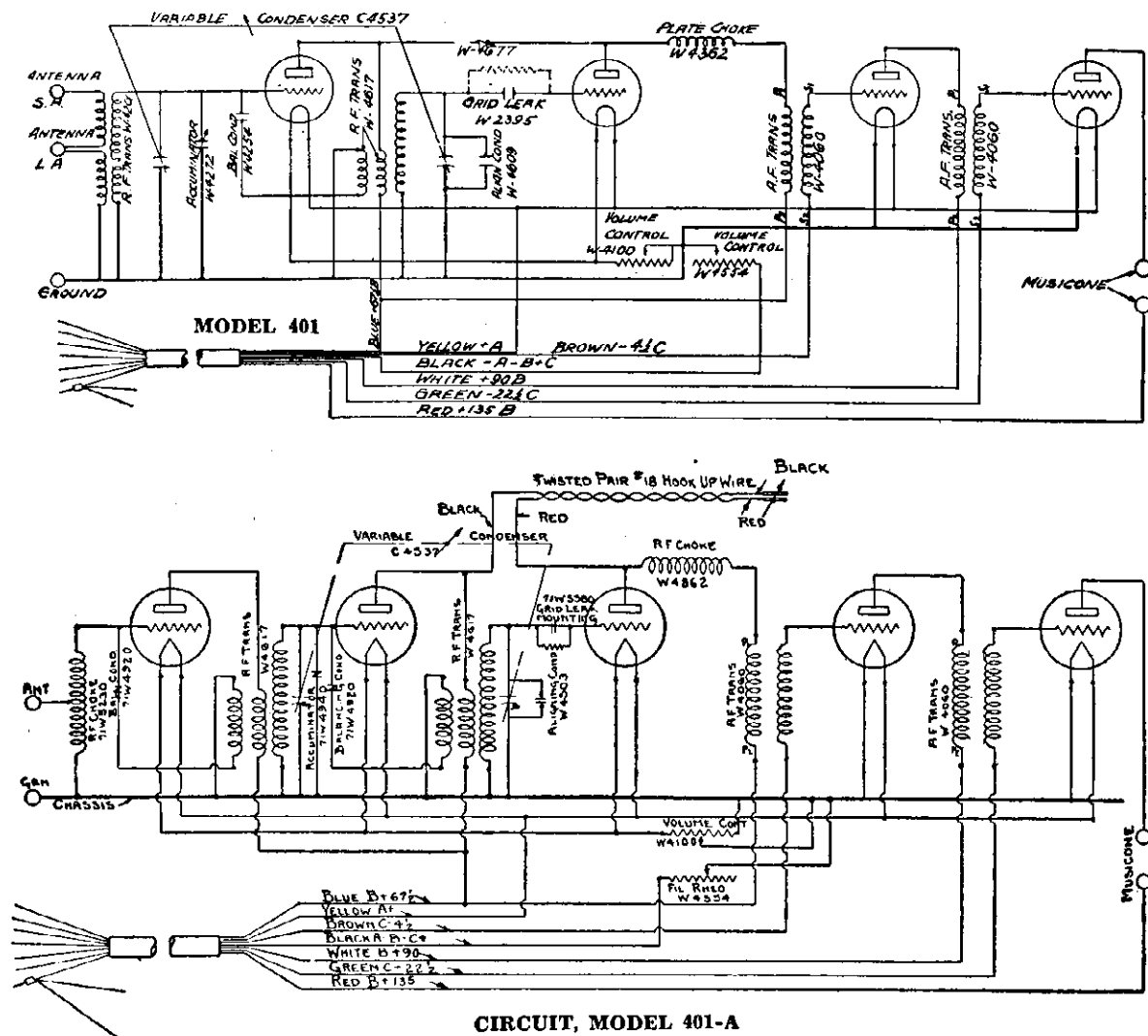
6-60, 6-85

(Batt.)

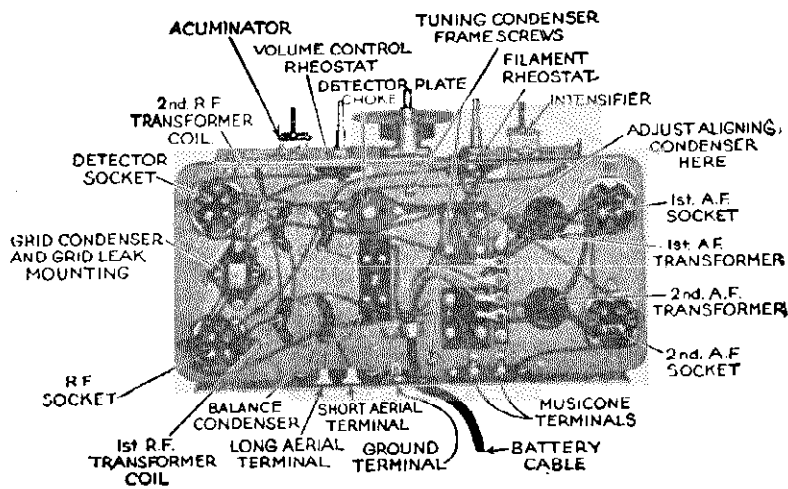


MODEL 401
MODEL 401-A
Schematic

CROSLEY RADIO CORP

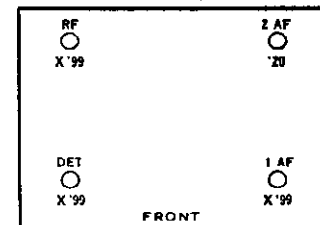


CIRCUIT, MODEL 401-A

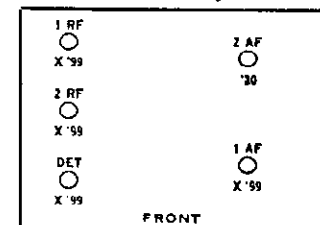


BOTTOM VIEW, MODEL 401 CHASSIS

Model 401 Bandbox Jr.



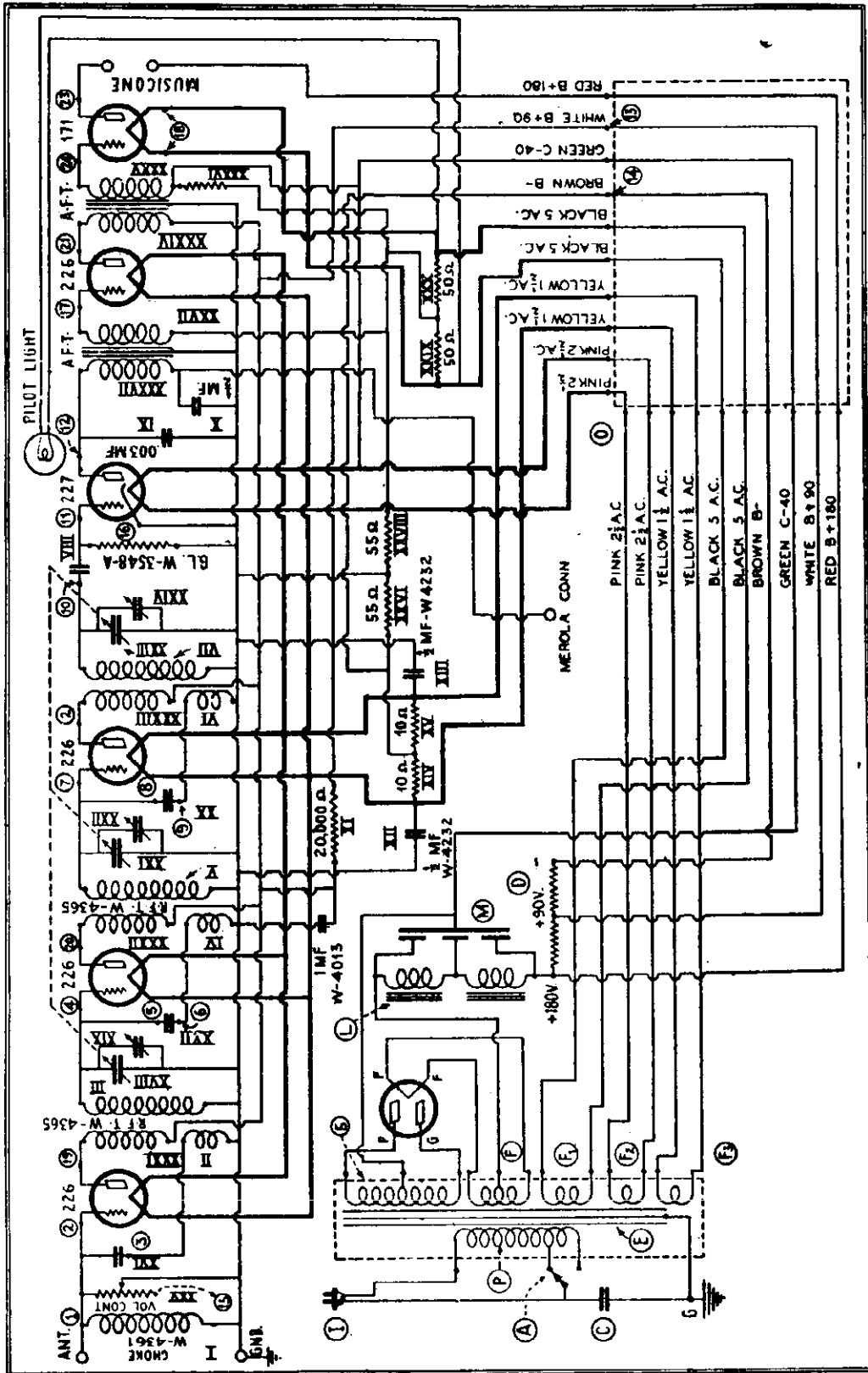
Model 401A Bandbox Jr.



MODEL 602 A.C.
Power Converter for
MODELS 104,105,106
Schematic

CROSLY RADIO CORP

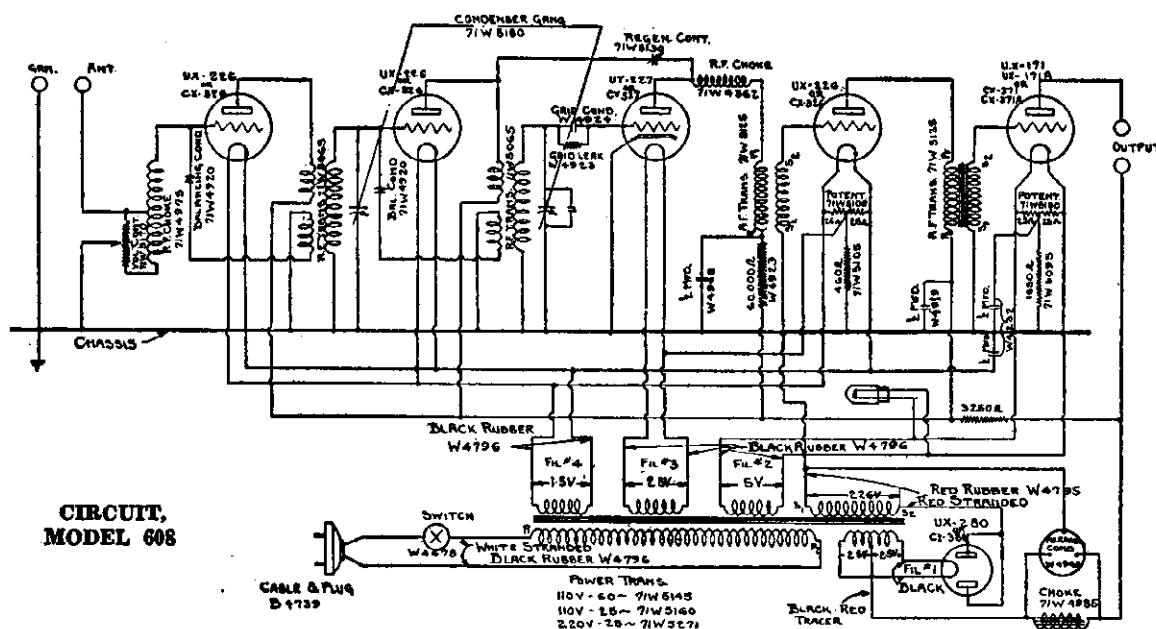
Circuits of the Crosley Model 602 A. C. Bandbox and Power Converter Models 104, 105 and 106. The dotted square at the lower right represents the plug by which the ten connections are made.



Values and Numbers Not Specified in Diagram.
Grid Leak—2 megohms.
VI-VII—R.F. Transformer, W4365.
X—By-Pass Condenser, W4233.
XI—Detector Plate Resistor, W4376.
XIV-XV—Center-Tap Resistor, W4240.
XXVI-XXVII—A.F. Transformers, W4060B (A .0008-mf. by-pass condenser W4512 is shunted across the secondary XXXV).
XXXVI—"C" Biasing Resistor 540 ohms W4391.

MODEL 608
Schematic
Voltage, Bottom View

CROSLEY RADIO CORP.



**CIRCUIT,
MODEL 608**

CABLE & PLYG
B 4732

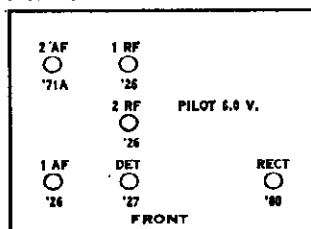
POWER TRANS.

BLACK RE
TRACER

CROSLEY—Model 608

Line Voltage 115—227 Emitter Biased 7 Volts Negative with Respect to Filament. Detector Grid Test Made with Grid Leak Shorted

Model 608 Gembox



TUBE NO. OR NUMBER	TYPE OF TUBE	POSITION OF TUBE 1ST A.F., DET., ETC.	READING: PLUG IN SOCKET OF SET								
			TUBE OUT			TUBE IN TESTER					
			A VOLTS	B VOLTS	C VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	NORMAL PLATE R.A.	PLATE RESISTOR TEST	PLATE R. CHANG.
1.	226	1st. A.F.	1.55	120	1.45	115	7	5.5	9.0	3.5	
2.	226	2nd. A.F.	1.55	120	1.45	115	7	5.5	9.0	3.5	
3.	227	Detector	2.40	100	2.20	30	0	1.5	1.5	3.5	
4.	226	1st. A.F.	1.55	120	1.45	110	7	5.0	8.5	3.5	
5.	171A	2nd. A.F.	5.2	210	5.00	135	25	15.0	17.0	2.0	
6.	280	Rectifier	5.3		5.00						

Tuning Condensers.

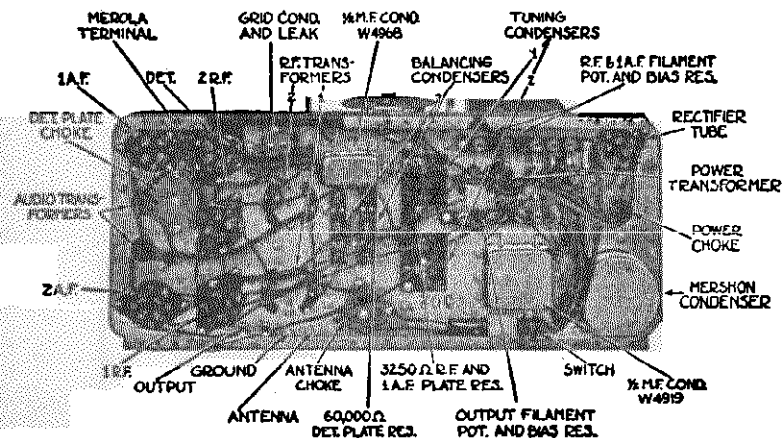
1. The complete condenser gang should be removed and replaced as a unit.
2. Take off station selector knob and remove leads from pilot light socket first. Then unsolder condenser leads and remove gang. Replace in reverse order.

Regeneration.

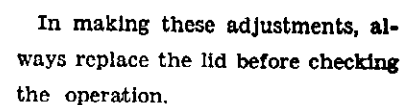
1. Regeneration is secured by means of a small variable condenser connecting the detector plate to the plate of the second r. f. tube. The amount of regeneration may be controlled by adjusting this condenser.

Alignment of Tuning Condensers

1. A small adjustable aligning condenser shunted across the detector-stage tuning condenser serves as a means of aligning the tuning condensers so that they track together properly.

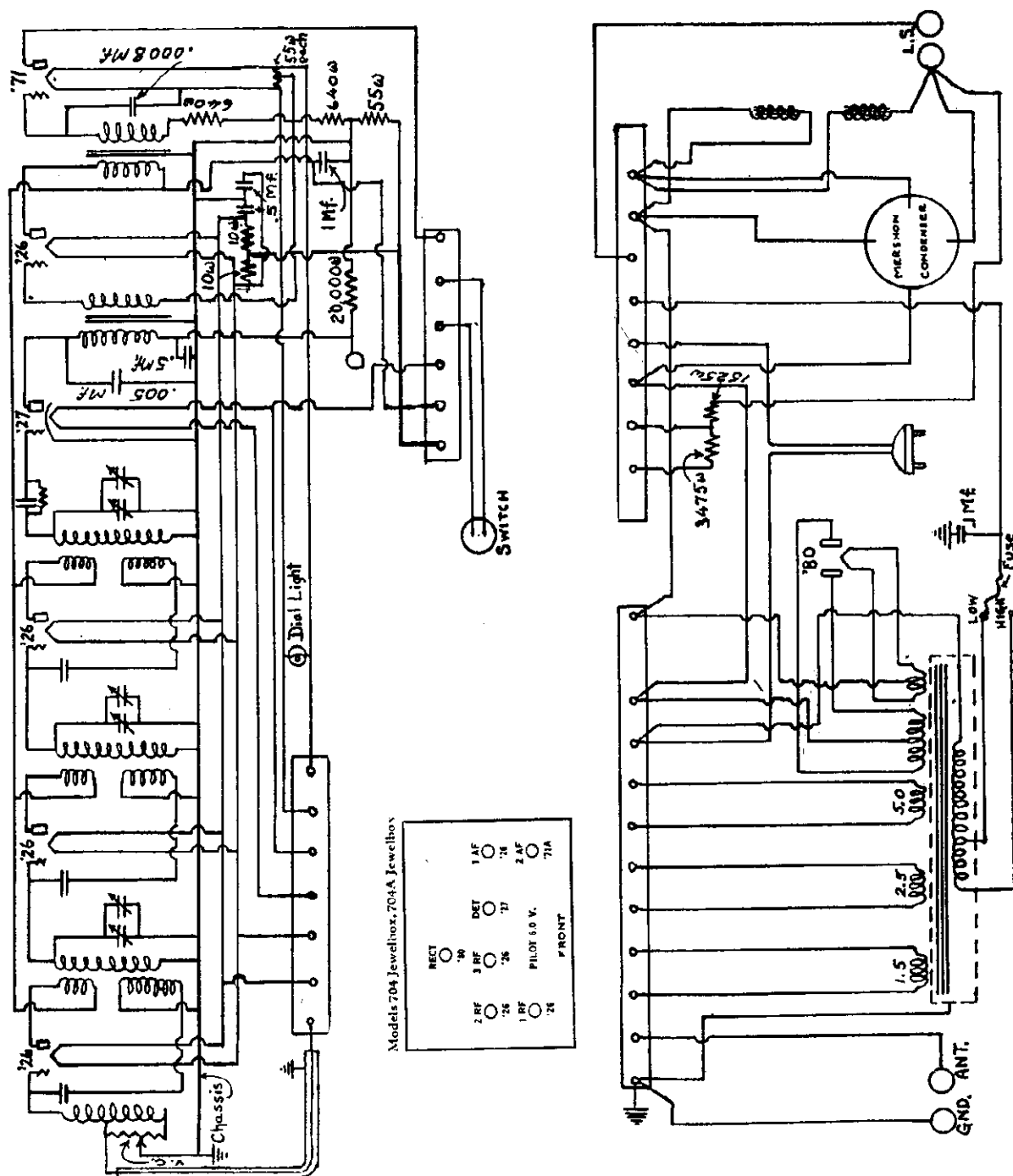


BOTTOM VIEW, MODEL 608 CHASSIS



MODEL 704
MODEL 704 Power Unit
Schematic
MODEL 704-A Voltage

CROSLEY RADIO CORP.



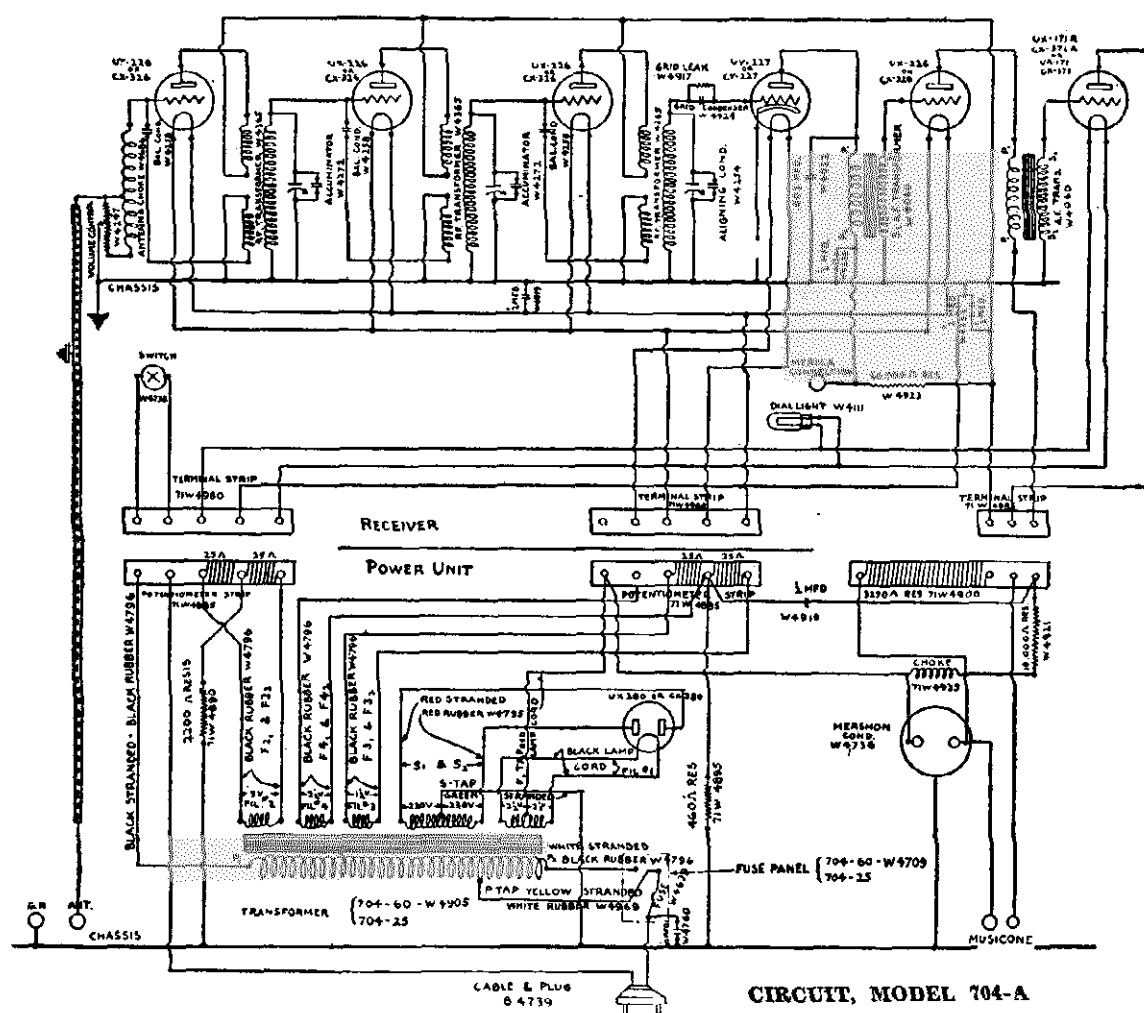
Tube	Fil. Vol.	Plate Vol.	Grid Bias.	Plate Cur.
RF1	1.3	98	3.	7. ma
RF2	1.3	98	3.	7.
RF3	1.3	98	3.	7.
Det	1.7	42	-	2.5
AF1	1.3	95	5.	3.2
AF2	4.8	159	35.	17.
Rec.	4.5.			

Voltage Data For Crosley 704-A

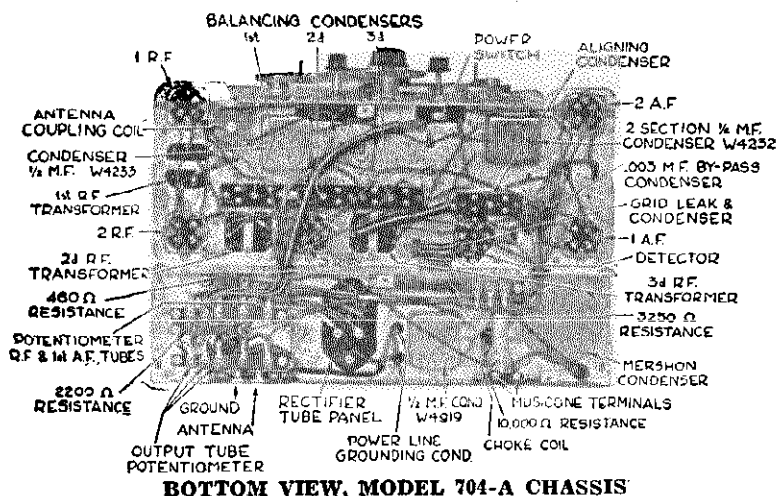
CROSLEY RADIO CORP

MODEL 704-A

Schematic, Bottom View

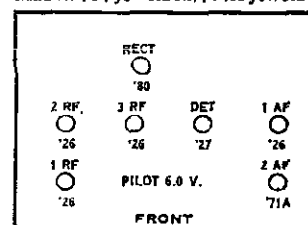


CIRCUIT, MODEL 704-A



NOTE:—This service sheet applies to all Jewelbox Model 704 sets having seven tubes, including rectifier (single output tube only) numbered from GJD 16,000 to 21,000.

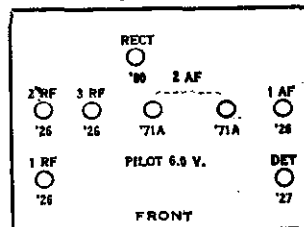
Models 704 Jewelbox, 704A Jewelbox



CIRCUIT, MODEL 704-B

1. A small auxiliary variable condenser shunted across the detector tuning condenser serves as a means of aligning the tuning condensers so that they "track" together.

Model 704B Jewelbox

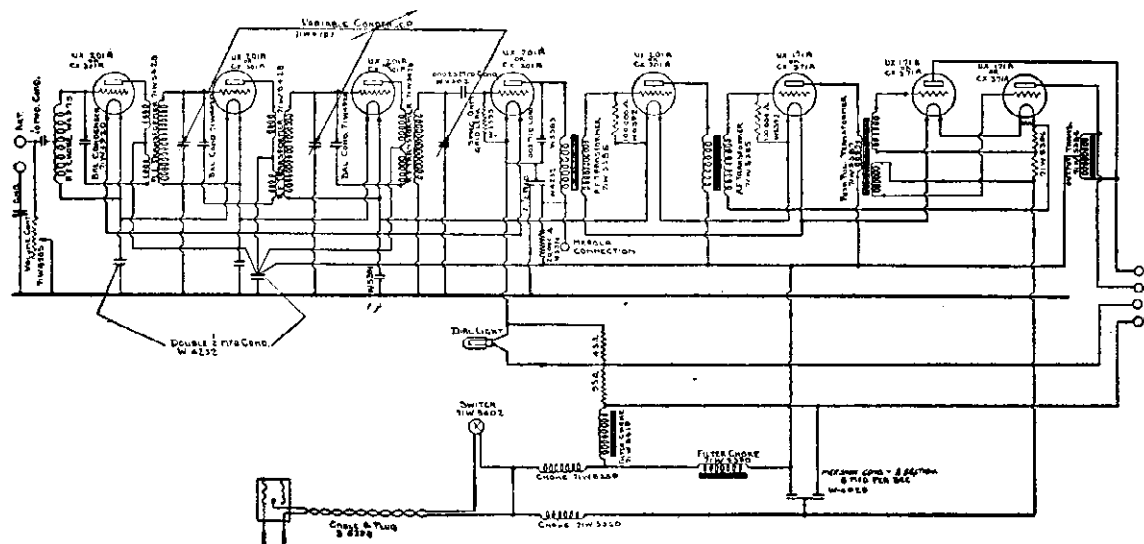


BOTTOM VIEW, MODEL 704-B CHASSIS

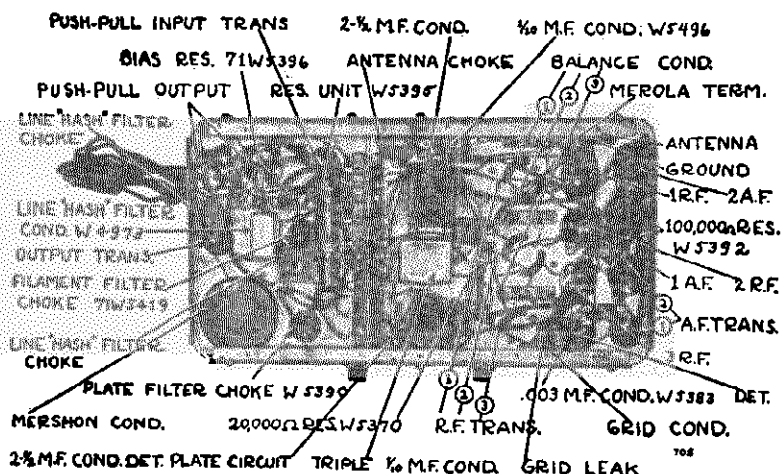
Line Voltage 117.5—227 Emitter Based 11 Volts Negative with Respect to Filament. Detector Grid Test Made with Grid Leak Shorted

TUBE NO. IN Circuit	TYPE OF TUBE	POSITION OF TUBE 1ST, 2ND, 3RD, 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	PLATE AS SHOWN	PLATE AS SET	
1	226	1st. A.F.	1.6	160	1.5	150	11.0		8.5	12.0	8.5	
	226	2nd. A.F.	1.6	160	1.5	150	11.0		8.5	13.4	6.9	
	226	3rd. A.F.	1.6	160	1.5	150	11.0		8.5	13.6	6.9	
2	227	Detector	2.60		2.85	50	0.0		2.2	2.75	5.5	
	226	1st. A.F.	1.6	220	1.6	120	9.0		6.2	8.0	1.8	
3	171A	2nd. A.F.	5.3	185	5.0	170	39.5		20.0	25.0	3.0	
	171A	2nd. A.F.	5.3	185	5.0	170	39.5		20.0	25.0	3.0	
4	280	Rectifier	5.3		4.9							

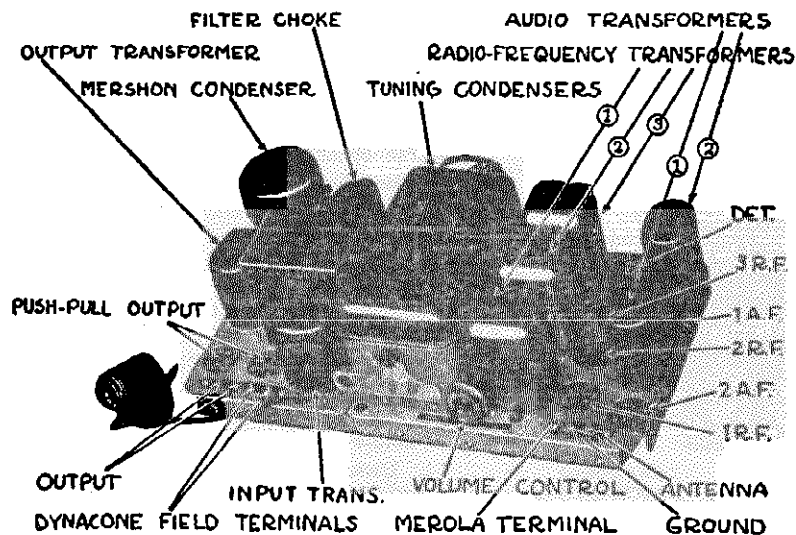
CROSLEY RADIO CORP.

MODEL 705
Schematic,
Bottom and Rear View

CIRCUIT, MODEL 705

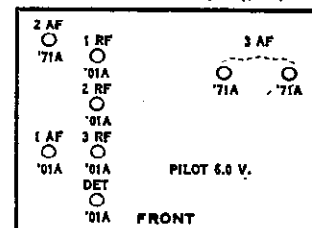


BOTTOM VIEW, MODEL 705 CHASSIS



REAR VIEW, MODEL 705 CHASSIS

Models 705 Showbox (DC), 61, 62



Repairing and Replacing Parts

Replacing Parts.

1. In replacing parts on Model 705 the bottom must be removed.

Tuning Condensers.

1. The complete condenser gang should be removed and replaced as a unit.
2. Take off knobs and remove leads from pilot light socket and volume control first. Next remove switch from holder. Then unsolder condenser leads and remove assembly. Replace in reverse order.

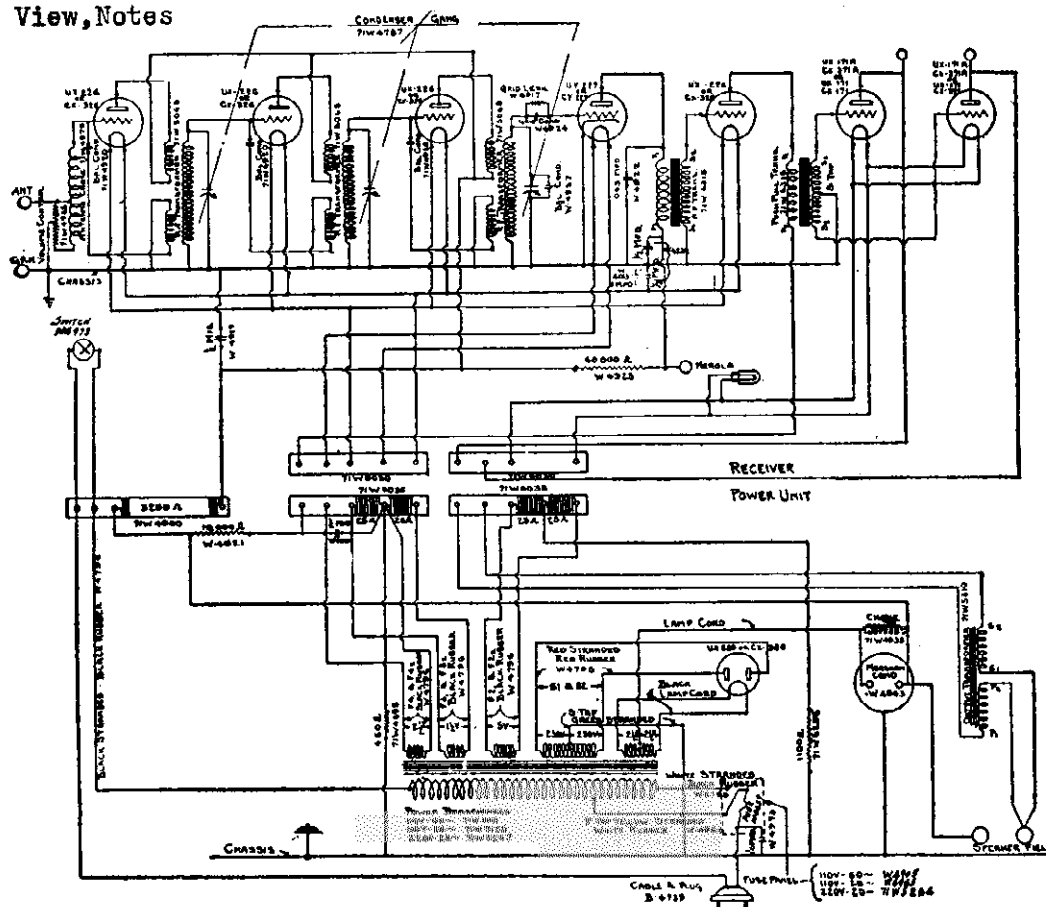
Radio-Frequency Transformers.

1. Unsolder leads first. Then remove shield can. Finally take off transformer coils. Replace in reverse order.
2. Mark all leads and terminals.

MODEL 706

Schematic, Voltage
Bottom View, Notes

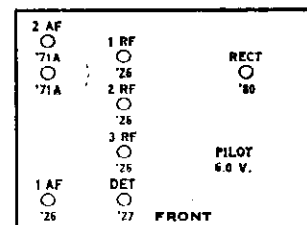
CROSLEY RADIO CORP.



CROSLEY- 706

Line Voltage 117.5—227 Emitter Based 11 Volts Negative with Respect to Filament. Detector Grid Test Made with Grid Leak Shorted

TUBE NO IN ORDER	TYPE OF TUBE	POSITION OF TUBE BY REF SET STC	READINGS PLUG IN SOCKET OF SET								
			TUBE OUT			TUBE IN TESTER					
			A VOLTS	B VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	RONALD PLATE VOLTS	PLATE M.A. AMP VOLTS	PLATE M.A. AMP VOLTS	
1	226	1st. R.F.	1.6	160	1.5	150	11.0		6.5	12.0	5.5
	226	2nd. R.F.	1.6	160	1.5	150	11.0		6.5	13.4	6.9
	226	3rd. R.F.	1.6	150	1.5	150	11.0		6.5	13.4	6.9
2	227	Detector	2.50	150	2.25	30	0.0		2.2	2.75	55
	226	1st. A.F.	1.6	220	1.5	120	9.0		6.2	6.0	1.8
1	171A	2nd. A.F.	5.3	185	5.0	170	39.5		20.0	23.0	3.0
1	171A	2nd. A.F.	5.3	185	5.0	170	39.5		20.0	23.0	3.0
	200	Rectifier	5.3		4.9						



Audio-Frequency Transformers.

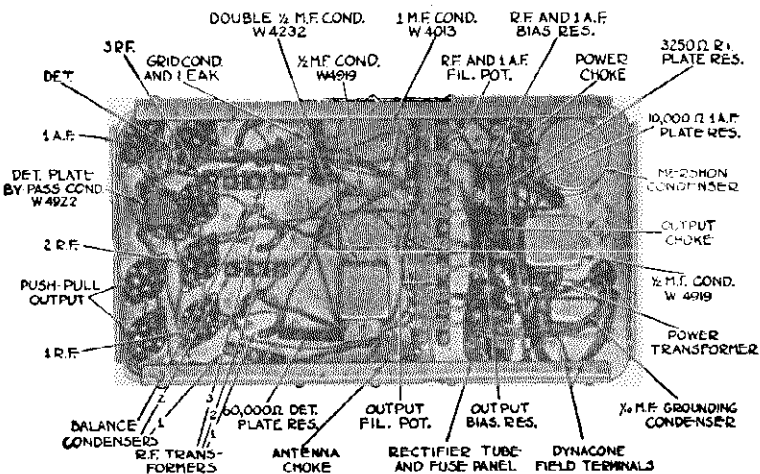
1. Both audio transformers are mounted in a single can. They must be removed as a single unit.
2. Unsolder leads. Remove nuts holding assembly in position and take off transformers. Replace in reverse order.

Tuning Condensers.

1. The complete condenser gang should be removed and replaced as a unit.
2. Take off knobs and remove leads from pilot light socket and volume control first. Next remove switch from holder. Then unsolder condenser leads and remove assembly. Replace in reverse order.

Radio-Frequency Transformers.

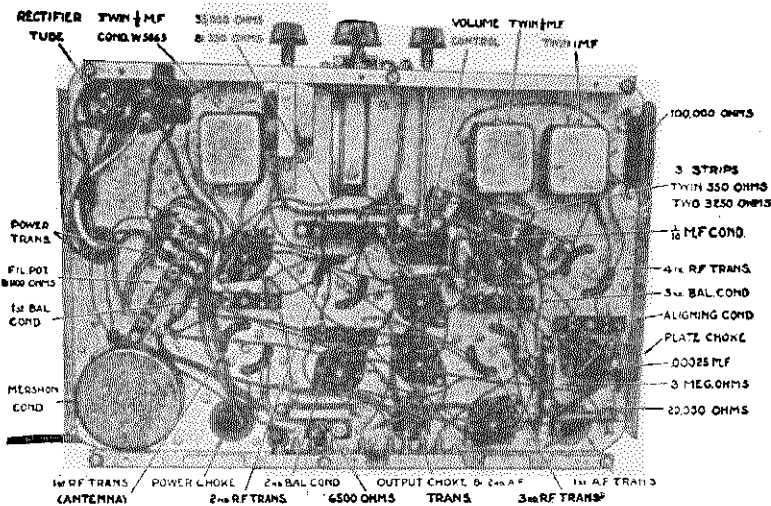
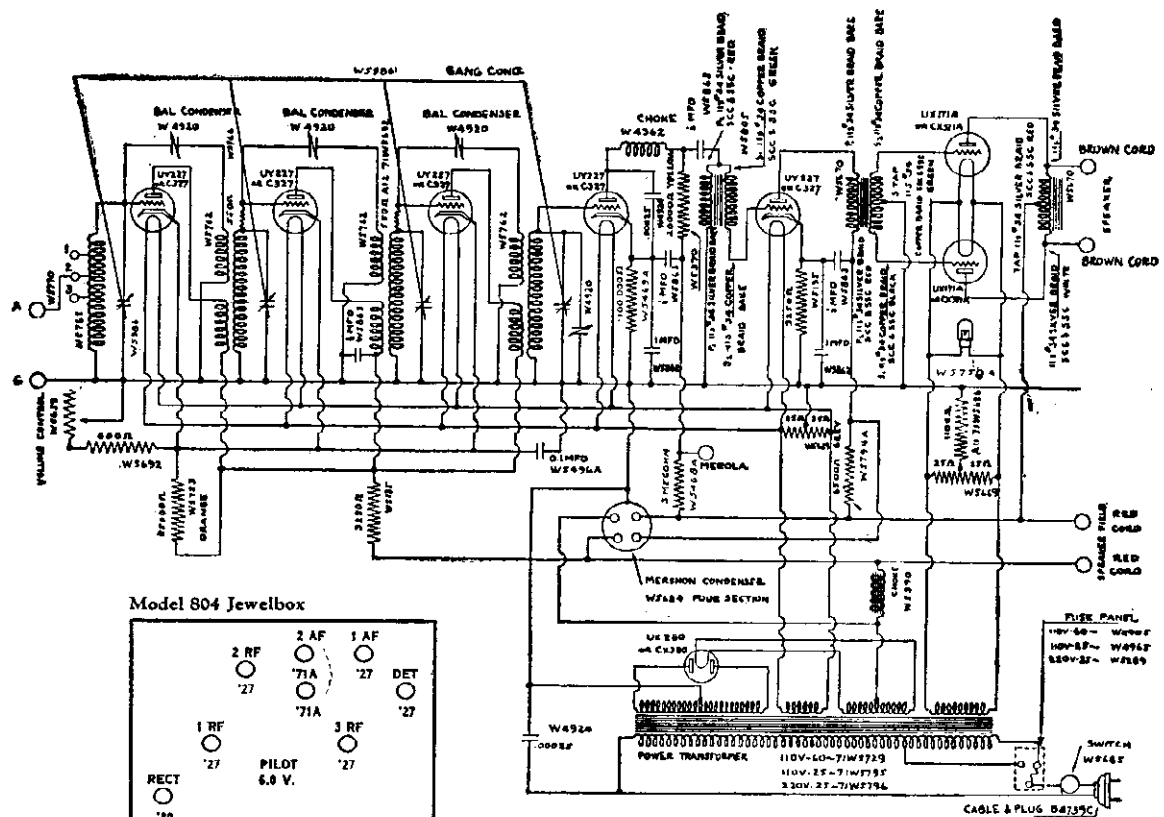
1. Unsolder leads first. Then remove shield can. Finally take off transformer coils. Replace in reverse order.



BOTTOM VIEW, MODEL 706 CHASSIS

CROSLY RADIO CORP.

MODEL 804
Schematic, Voltage
Bottom View, Notes



Alignment and Balancing.

1. A small, adjustable, aligning condenser is shunted across the detector stage tuning condenser for aligning the tuning condensers controlled by the station selector.

2. Small, adjustable neodyne condensers are provided for balancing. Follow the instructions for balancing given on page 4, "Crosley Service Manual." Insulate one of the heater prongs, not the emitter. Do not use headphones.

Connections.

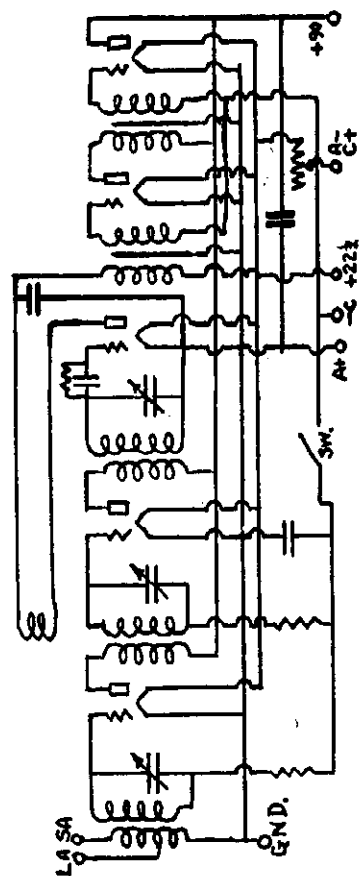
1. Follow the connection diagram shown herewith. A small lead near the antenna terminal is provided in order to adjust the set for best operation with different types of aeri-als. For average operation with an average antenna, this lead should be inserted in terminal "2" at the rear of the chassis. For greatest sensitivity, insert the lead in terminal "1", and for greatest selectivity in terminal "3".

CROSLY—Model 804
Line Voltage 117.5—Set on High Volt Tap—Volume Control Position Max

TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE IN SET	READINGS PLUG IN SOCKET OF SET									
			TUBE OUT				TUBE IN TESTER					
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	CATHODE VOLTS	HEATER VOLTS	NORMAL PLATE VOLTS	PLATE VOLTS	PLATE VOLTS	SCREEN GRID VOLTS
1	6AR5	1st RF	2.45	1.85	2.80	175	12	12	5.2	8.0	3.5	-
2	6AR5	2nd RF	2.45	1.85	2.80	175	12	12	5.2	8.0	3.5	-
3	6AR5	3rd RF	2.45	1.85	2.80	175	12	12	5.2	8.0	3.5	-
4	6AR5	Det.	2.45	1.50	2.80	180	22	18	0.2	0.25	0.25	-
5	6AR5	1st AF	2.45	2.25	2.80	184	13	12	5.2	8.0	3.5	-
6	6AR5	2nd AF	5.2	800	5.10	180	40	-	18	25	7.0	-
7	6AR5	3rd AF	5.2	800	5.10	180	40	-	18	25	7.0	-
8	6AR5	Rect.	5.0	-	4.80	-	-	-	80	-	-	-

MODEL TRIRDYN
MODEL 51
MODEL 5-38
Schematic

CROSLEY RADIO CORP.



MODEL 5-38

Model 5-38, Series 2 (Serial No. 800H & Above)

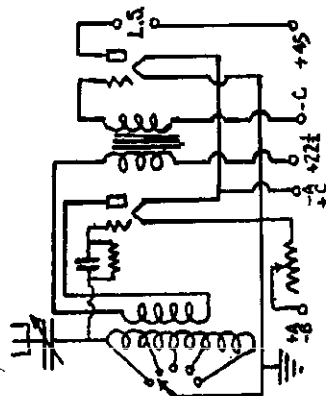
BELOW 800H 4TH TUBE IS 2RF, 5TH TUBE DET

1 RF	2 AF	1 AF	DET	2 RF
0	0	0	0	0
10A	10A	10A	10A	10A
OR	OR	OR	OR	OR
X'99	X'99	X'99	X'99	X'99
OR	OR	OR	OR	OR
12	12	12	12	12

FRONT

Model Trirdyn

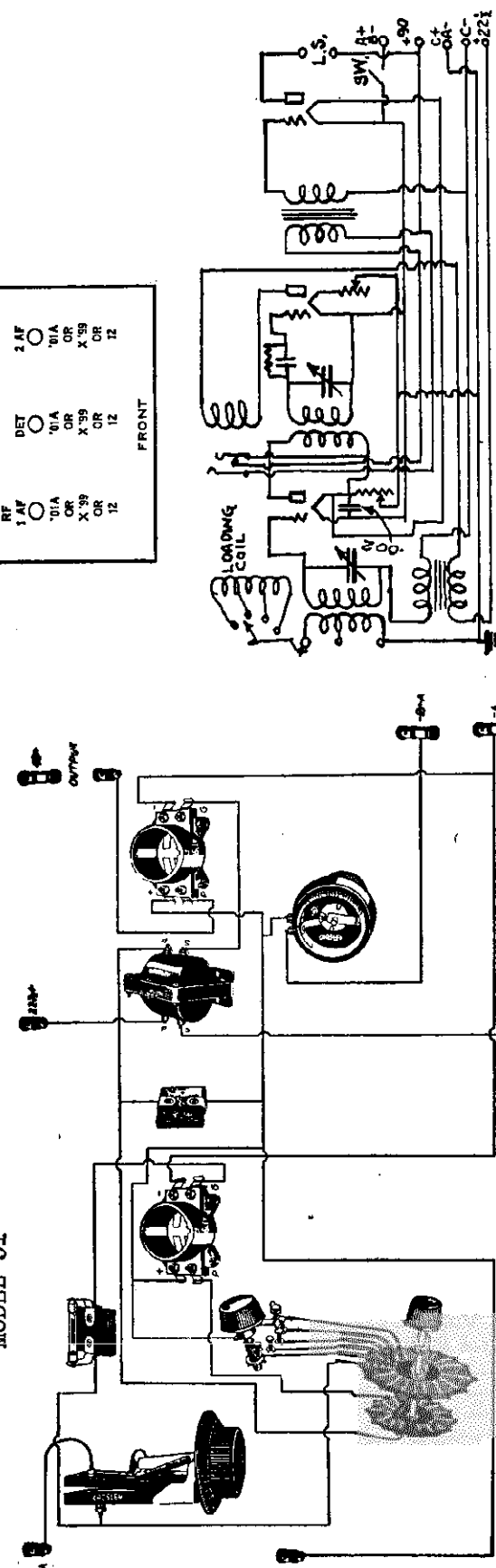
MODEL 51



Model 51

DET	AF
0	0
10A	10A
OR	OR
X'99	X'99
OR	OR
12	12

FRONT

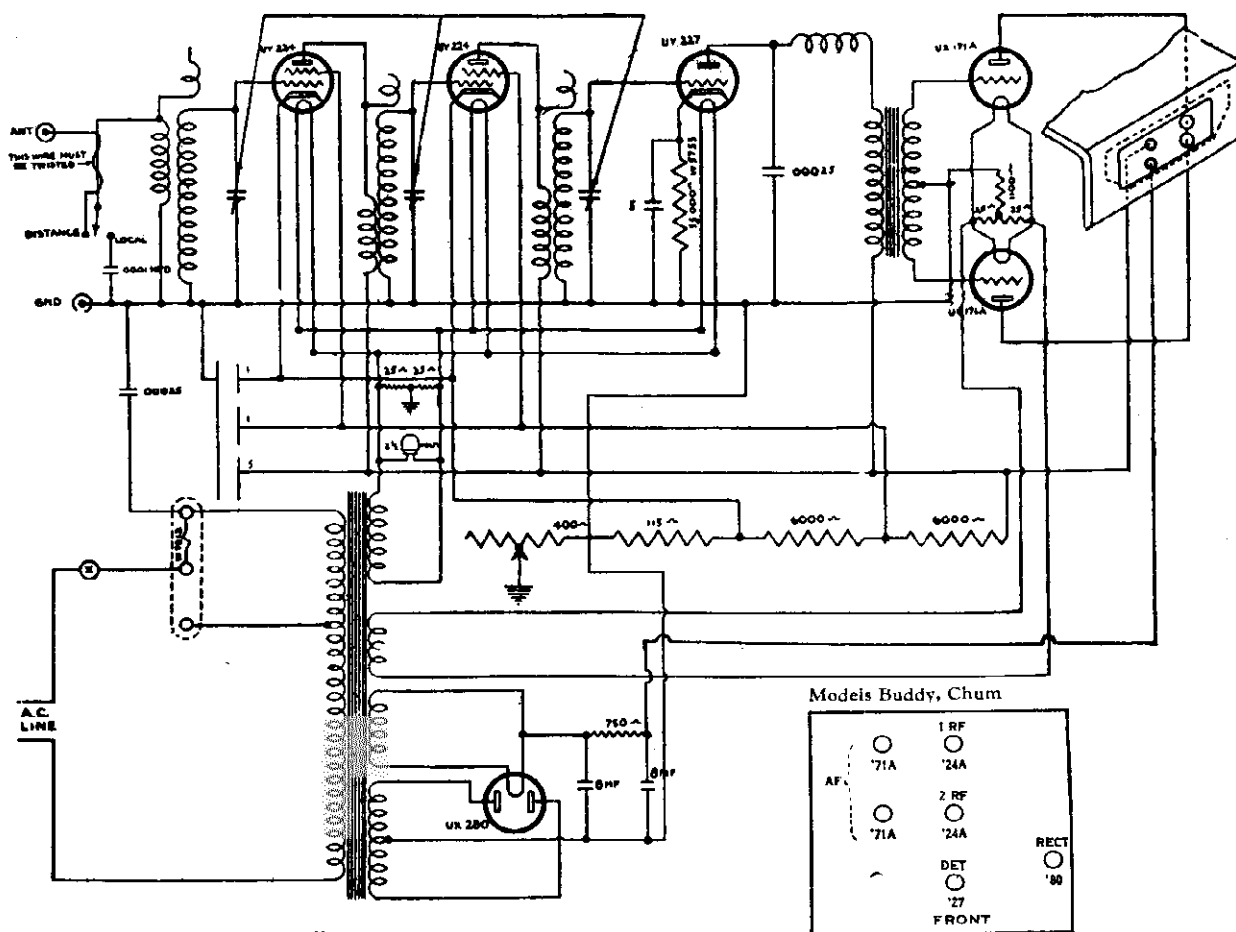


MODEL TRIRDYN

Crosley Model 51 Circuit

MODEL BUDDY, CHUM
Schematic, Voltage

CROSLEY RADIO CORP

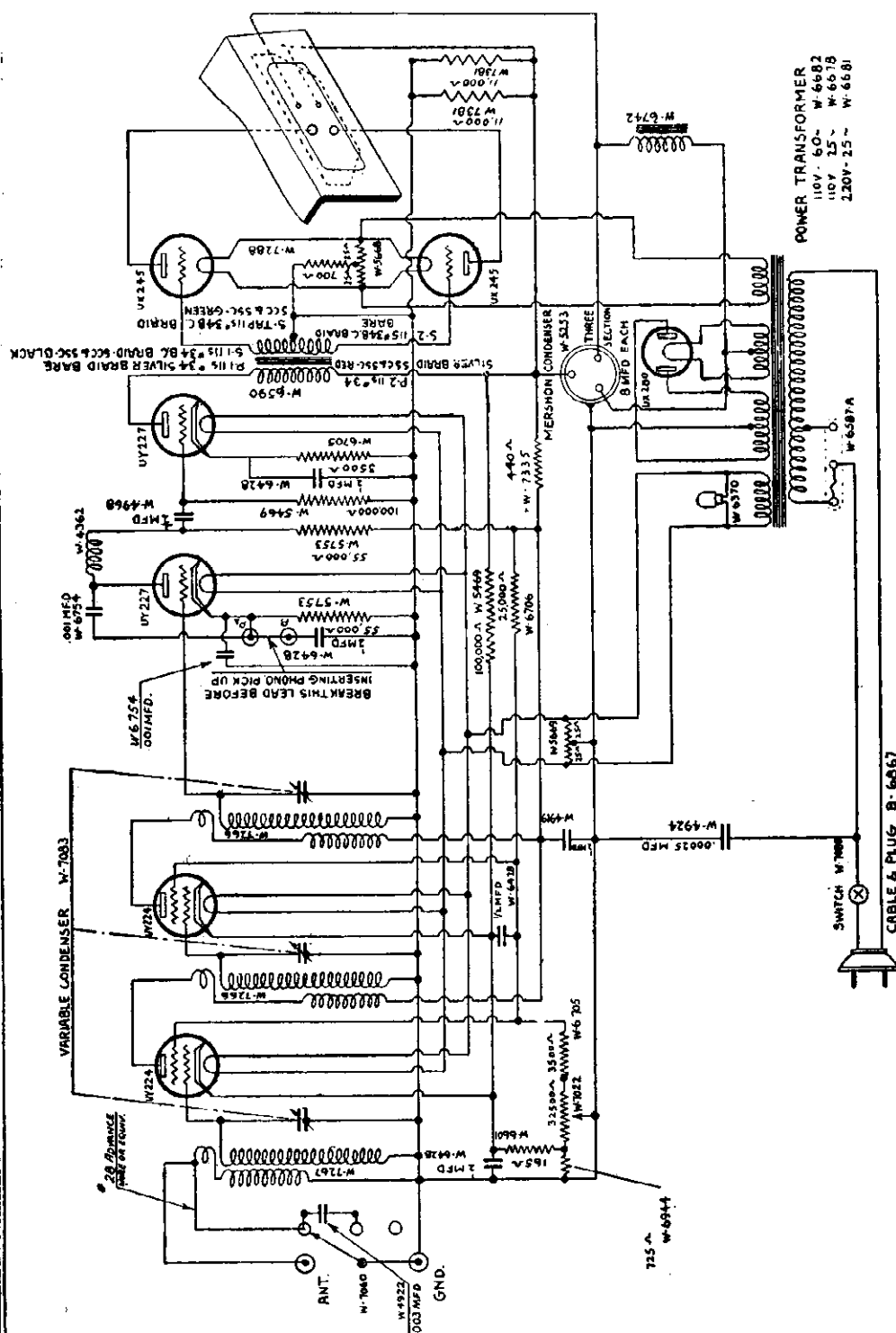


"BUDDY and CHUM"

VOLTAGE LIMITS

	Volume Control	
Filament Voltages	On Full	
R.F. and Detector tubes	2.4	
A.F. and Rectifier tubes	4.8	
- - -	- - -	
Plate Voltages		
All tubes but Rectifier	170	
Rectifier tube	250 each	
- - -	- - -	
Control Grid Voltages		
R.F. tubes	2.8	
Detector tube	12.0	16.0
A.F. tubes	38.0	
- - -	- - -	
Screen Grid Voltages		
R.F. tubes	85.0	

The above readings are to be taken with the receiver in full operating condition, with the volume control on full, and with a line voltage of 117.5 when the fuse is in the "High" position or of 107.5 when the fuse is on the "Low" position. In the case of 220 volt receivers, the line voltages should be, respectively 235 and 215. Measure plate and grid voltages with a high-resistance D.C. voltmeter (at least 800 ohms per volt.) These voltages are to be measured from the plate or grid socket contact to the emitter contact or negative filament contact, unless otherwise noted in the table. The contacts must be reached from the bottom of the receiver (unless a set tester is used) with tubes, dial light, and speaker in place. Use a low-range A.C. voltmeter to measure the filament voltages.

MODELS 30S, 31S, 33S, 34S
Schematic, Voltage, Notes
CROSLEY RADIO CORP.


ampere cartridge type automobile light fuse (two ampere fuses are also used on recent chassis of the 40S series)

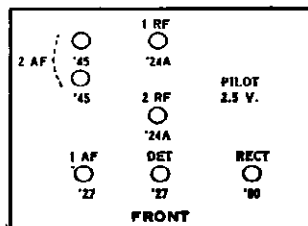
Installation of Model 30S Unirad chassis, which is the chassis with front panel only for console mounting, is similar to that described on page 29 for Model 40S. Model 31S is in a metal, table type case. Model 33S and 34S are mounted in wooden consoles, with built-in speakers

The line voltage should be checked and the chassis fuse inserted in the proper clips as described on page 29 in connection with the 40S series of receivers. If the owner of the receiver complains of tubes burning out too often check the line voltage and see that the fuse is inserted in its proper clips.

If the dial light burns out, replace it with a 2½ volt Mazda miniature base bulb No. 41. If the fuse requires to be replaced use a two

CROSLEY—63 Chassis
Models 30S, 31S, 33S, 34S and Playmate.

TUBE NO. IN CHASSIS	TYPE OF TUBE	POSITION OF TUBE IN SET	METER READINGS WITH JEWELL TEST PLUG IN SOCKET OF SET									
			OPERATING VOLTAGES					WILLIAMPERES				
			FILAMENT OR HEATER	PLATE OR GRID-SPACER	CONTROL GRID-SPACER	SCREEN GRID-SPACER	CATHODE SO. HEATER	MAXIMUM R. H. 60	PLATE R. H. 60	TUBE VOLT	PLATE CURRENT	CHARGE
224	1 R.F.	8.43	153	-1.4	65	1.2	-	2.95	6	3.03		
224	2 R.F.	8.43	153	-1.4	65	1.2	-	8.85	5.85	8.4		
227	Det.	2.4	114	-	-10.9	11.8	-	.3	.39	.9		
227	1 A.F.	2.45	140	-	-6	10	-	2.85	3.6	.75		
245	2 A.F.	2.35	224	-	-42.5	-	-	30	33.6	4.6		
246	2 A.F.	2.35	224	-	-42.5	-	-	30	33.6	4.6		
280	Rect.	5.1	-	-	-	-	55	-	-	-		

Models 30-S, 31-S, 33-S, 34-S

Installation

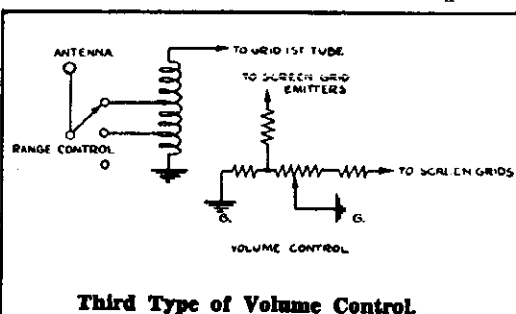
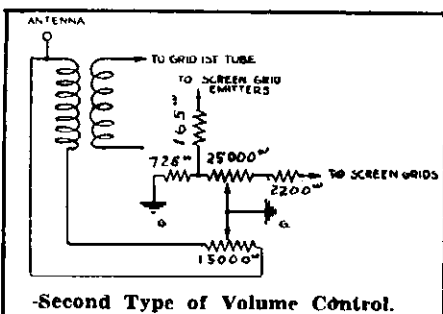
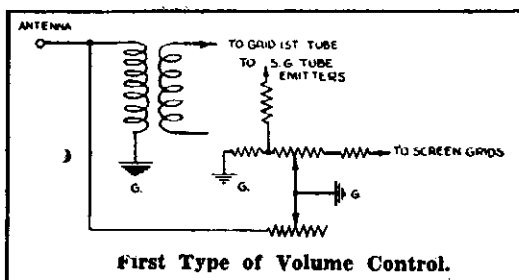
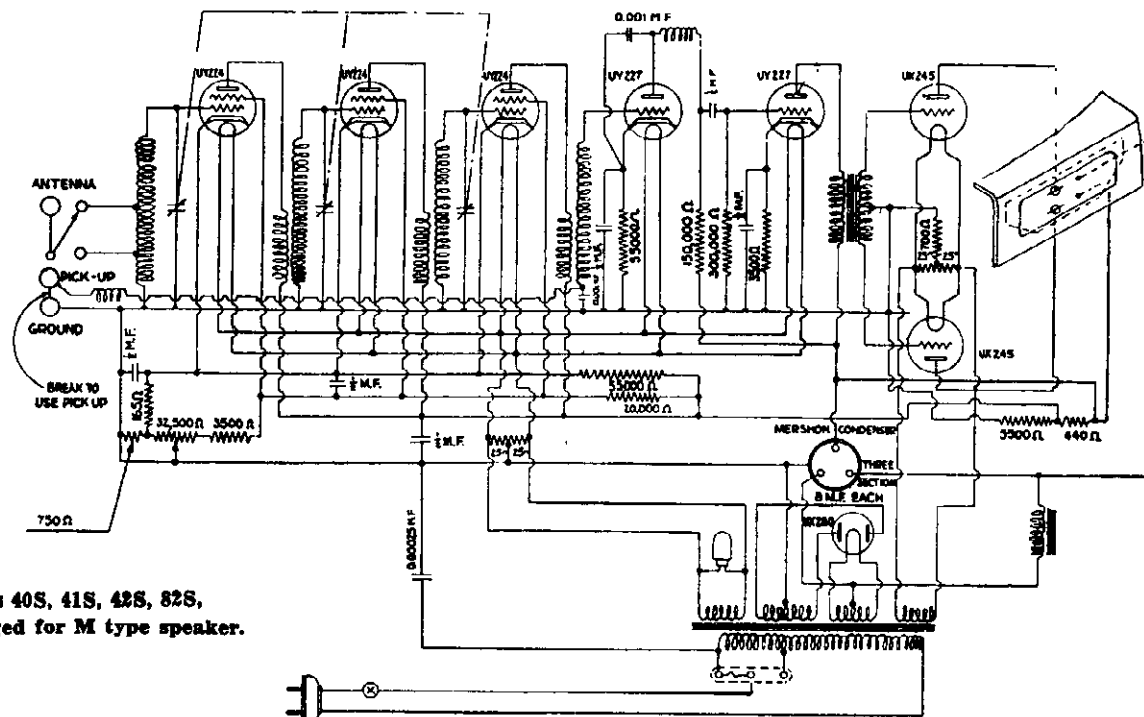
These receivers are designed for operation with Type M Dynacoil speakers. The chassis is equipped with a socket into which a plug on the end of the speaker cord fits. Although not shown on page 29, the more recently built chassis of the 40S series are equipped with sockets for Type M Dynacoil speakers instead of with terminals for Type M Dynacoils.

CROSLLEY RADIO CORP.

MODELS 40S, 41S, 42S, 82S
Schematic, Voltage

For model 41S receiver, a Dynacoil speaker type J, model 244, is required.

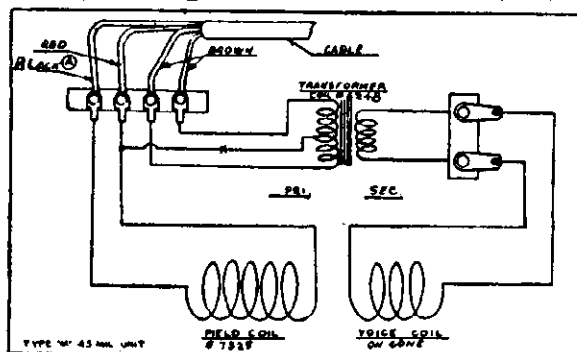
Models 40S, 41S, 42S, 82S,
arranged for M type speaker.



CROSLLEY—73 Chassis—Models 40S-41S-42S-82S
Line Voltage 117.5—Set on High Volt Tap—Volume
Control Position Max

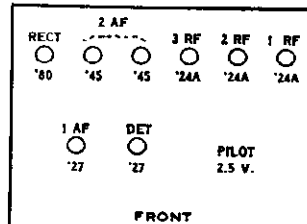
TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE IN SET	REARWARD PLUG IN SOCKET OF SET																	
			TUBE OUT						TUBE IN TESTER											
			A VOLTS	B VOLTS	C VOLTS	D VOLTS	E VOLTS	F VOLTS	GATHODE HEATER	NORMAL PLATE	PLATE WITH A GRID	PLATE CHARGE	SCREEN GRID	SHIELD GRID						
1	224	1st RF	2.60	180	2.40	175	2.5	1.5	1.5	1.5	4.0	2.5	70							
2	224	2nd RF	2.60	180	2.40	175	1.5	1.5	1.5	4.0	2.5	70								
3	224	3rd RF	2.60	180	2.40	175	1.5	1.5	1.5	4.0	2.5	70								
4	227	Det.	2.60	100	2.45	100	12	18	18	1.5	1									
5	227	1st AF	2.65	280	2.45	100	15	12	12	4.0	5.0	1.0								
6	243	2nd AF	2.55	265	2.30	240	48	-	30	30	4.0									
7	245	2nd AF	2.55	265	2.30	240	48	-	30	4.0										
8	250	Rect.	5.60	-	5.00	-	-	-	100	-	-	-								

Models 42S and 82S are equipped with Dynacoil speakers, type J, model 255.



For model 40S receiver, Dynacoil type J, model 254 is supplied.

Models 40S, 41S, 42S, 82S

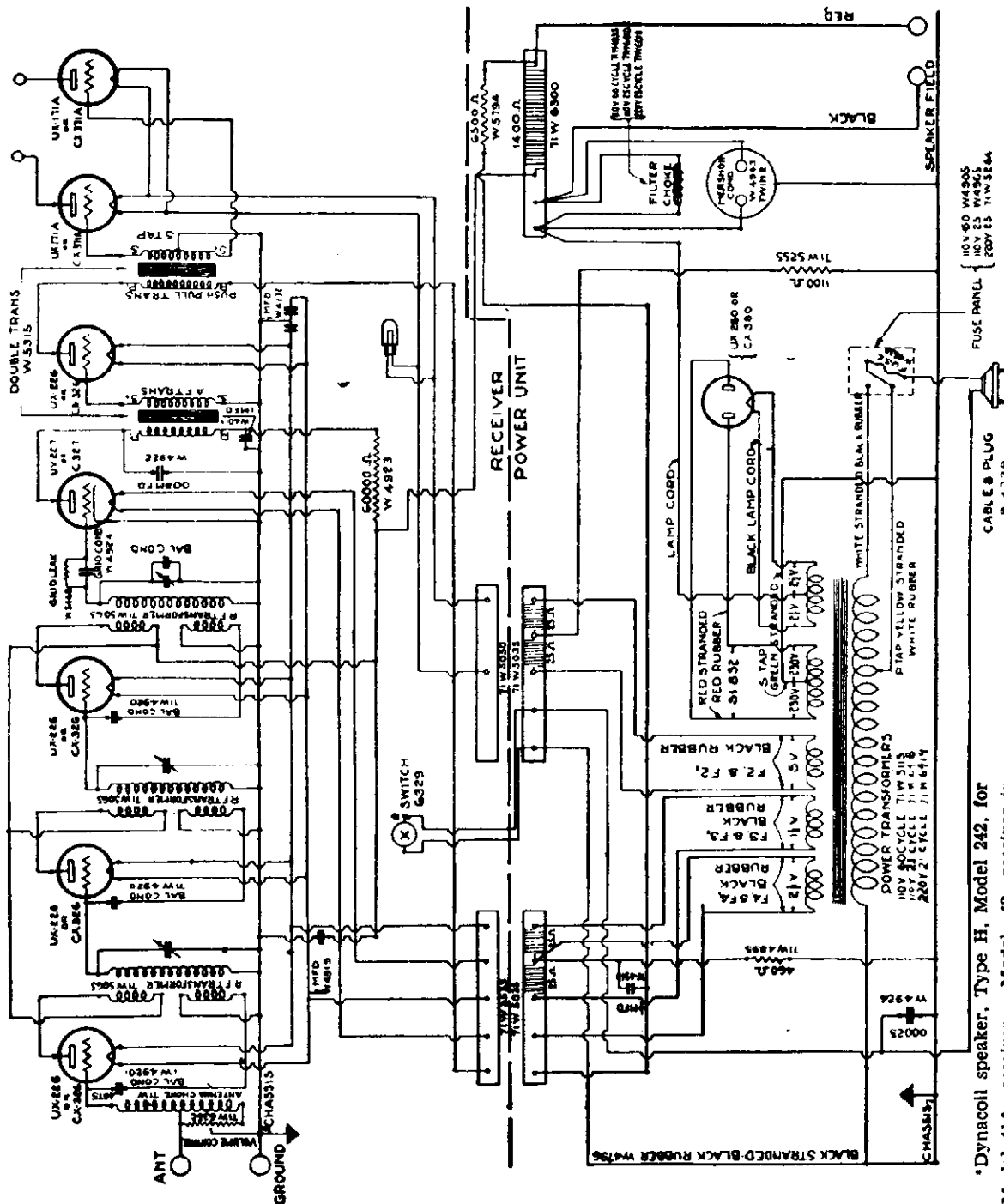


(ABOVE)

Connections for Dynacoils
Types G, H, J, M
Red and Black leads to
field coil. Brown leads
to speaker output
transformer.

MODELS 41, 41A, 42
Schematic, Voltage

CROSLEY RADIO CORP.



*Note—Merphon Condenser in set will probably be ruined if speaker field circuit is opened while set is in operation.

*Dynacoil speaker, Type H, Model 242, for Model 41A receiver Model 42 receiver is equipped with built-in Dynacoil speaker, Type H, Model 243.

CROSLEY—Models 41-41A-42-704-706

Line Voltage 117.5—227 Emitter Based 11 Volts Negative with Respect to Filament. Detector Grid Test Made with Grid Leak Shorted

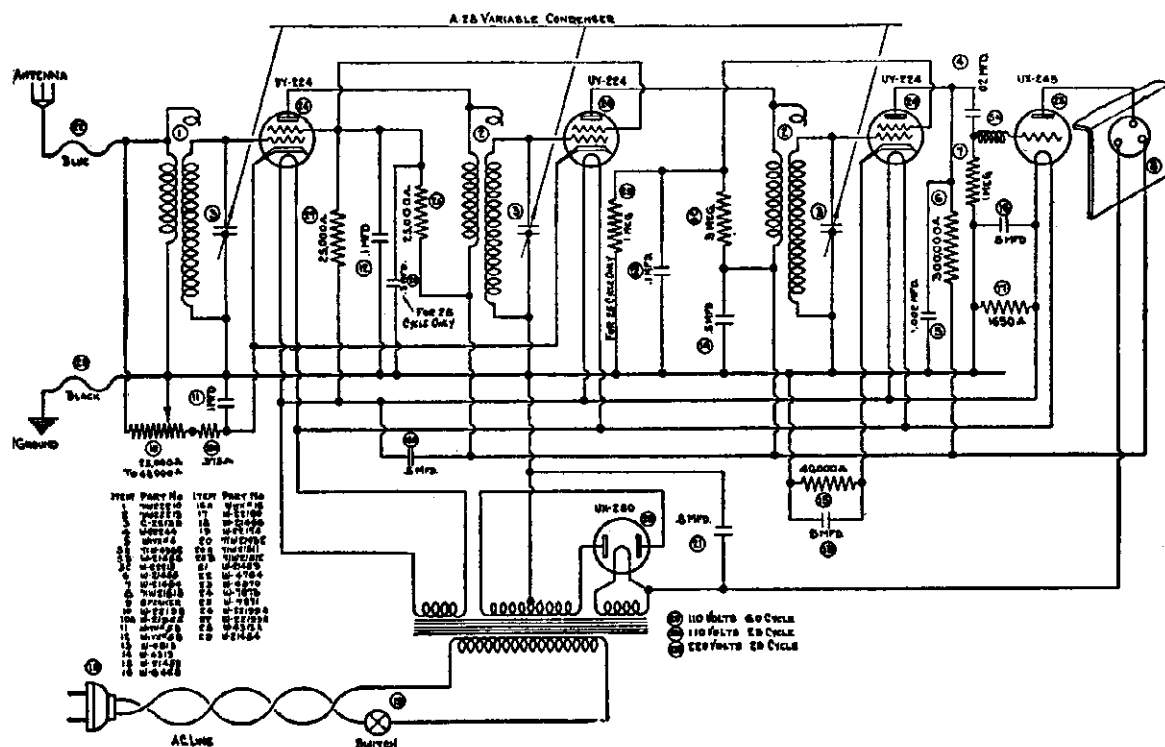
TUBE NO. IN CIRCUIT	TYPE OF TUBE	POSITION OF TUBE IN SET ETC.	RECOMMENDED PLUG IN RANGES OF SET									
			TUBE OUT					TUBE IN TESTED				
			1 VOLTS	2 VOLTS	3 VOLTS	4 VOLTS	5 VOLTS	CATHODE VOLTS	GENERAL PLATE VOLTS	PLATE VOLTS W/TH SCREEN	PLATE VOLTS W/TH BYPASS	
226	1st. R.F.	1.6	160	1.5	150	11.0		6.5	12.0	6.5		
226	2nd. R.F.	1.6	160	1.5	150	11.0		6.5	12.0	6.5		
226	3rd. A.P.	1.6	160	1.5	150	11.0		6.5	12.0	6.5		
227	Detector	2.80	150	2.25	30	0.0		2.2	2.75	.56		
226	1st. A.P.	1.6	160	1.5	150	11.0		6.5	12.0	6.5		
171A	2nd. A.P.	5.3	185	5.0	170	37.5		5.0	17.0	37.5		
171A	2nd. A.P.	5.3	185	5.0	170	37.5		5.0	17.0	37.5		
280	Rectifier	5.3		4.9								

32, 40, 41, 41A, 42

(A.C.)

CX-371A	2nd A.F.	CX-326	1st R.F.	CX-380
CX-371A	2nd A.F.	CX-326	2nd R.F.	Rect
		CX-326	3rd R.F.	
CX-326	1st A.F.	C-327	0+1	

CROSLEY RADIO CORP.

MODEL 48
Schematic, Voltage

Circuit Diagram Model 48

Voltage Limits

To be measured with tubes in place, speaker connected, and line voltage of $117\frac{1}{2}$ (235 for 220 volt receivers. Measure plate and grid voltages with a high-resistance D. C. volt-meter (600 ohms or more per volt) from plate or grid socket contact to emitter contact. Use a low-range A. C. meter to measure filament voltages.

Filament Voltages

All tubes but rectifier	2.3 to 2.5
Rectifier tube	4.6 to 4.8

Plate Voltages

R. F. amplifier tubes	160 to 190
Detector tube	105 to 125
A. F. amplifier tube	125 to 155
Rectifier tube	220 A. C.

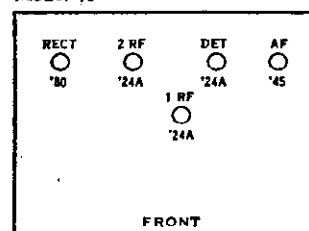
Screen Grid Voltages

R. F. amplifier tubes	80 to 90
Detector tube	40 to 50

Control Grid Voltages

R. F. amplifier tubes	2.5 to 3.1
Detector tube	6.0 to 7.0
A. F. amplifier tube	25 to 35

Model 48

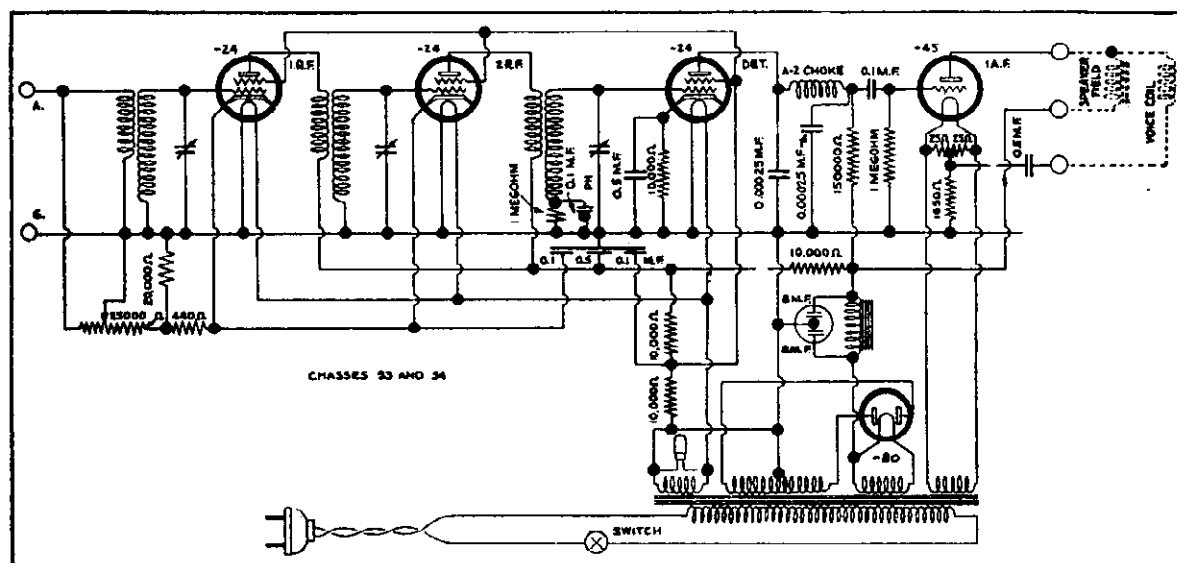


Installation Notes

Because of the low sensitivity of this chassis it is better to use a comparatively large aerial with it if possible. A good ground should, of course, be used.

One must be careful in inserting the speaker plug not to force it in when the prongs are improperly lined up with the socket holes.

This model employs the following tubes: two -24 screen grid amplifiers, a -24 screen grid detector, a -45 power output amplifier, and a -80 rectifier.

MODEL 53, 54, 57
Schematic, Voltage
CROSLEY RADIO CORP.

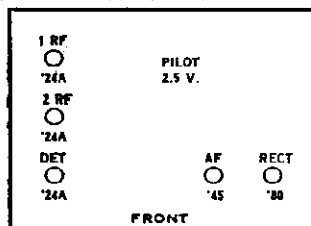
Circuit Model 53 (see note below regarding Models 54 and 57)

Circuit, Models 54 and 57

Model 54 circuit differs from that shown in the diagram in the following particulars: The "PH" terminals are between the r. f. transformer coil and the 0.1 m. f. condenser, instead of between this condenser and ground, as shown. The triple unit condenser near the center of the diagram has values, from right to left, of 0.1, 0.1, 0.5 microfarads, instead of those shown. There is no dial light on Model 54.

Model 57 differs in circuit from the above description in the following particulars: An additional condenser of 0.25 m. f. capacity is shunted across the filter choke. The primary of the speaker output transformer is connected in the position in which the speaker field is shown in the above diagram. Instead of being connected to the 1650 ohm resistor through a condenser, as shown in the above diagram, the bottom speaker terminal is connected to ground. The speaker field is connected from this grounded terminal to the middle speaker terminal on the diagram, so that current from the positive "B" circuit flows through the speaker field to ground. A fixed condenser is shunted across the 1650 ohm output biasing resistor.

Models 53E, 53F, 53M, 57V

**Voltage Limits****Filament Voltages**

R. F. and Detector Tubes.....	2.1 to 2.3
A. F. Tube.....	2.2 to 2.4
Rectifier Tube.....	4.1 to 4.3

Plate Voltages

R. F. Tubes.....	160 to 180
Detector Tube.....	215 to 245
A. F. Tube.....	230 to 260
Rectifier Tube (A. C. Voltage).....	340 to 370
	each plate

Control Grid Voltages

R. F. Tubes.....	3.1 to 3.5
Detector Tube.....	9.0 to 10.0
A. F. Tube.....	45.0 to 50.0

Screen Grid Voltages

R. F. and Detector Tubes.....	85 to 95
-------------------------------	----------

Approximate Plate Current Values

R. F. Tubes	0.0032
Detector Tube	0.00035
A. F. Tube	0.0335
Rectifier Tube	0.045

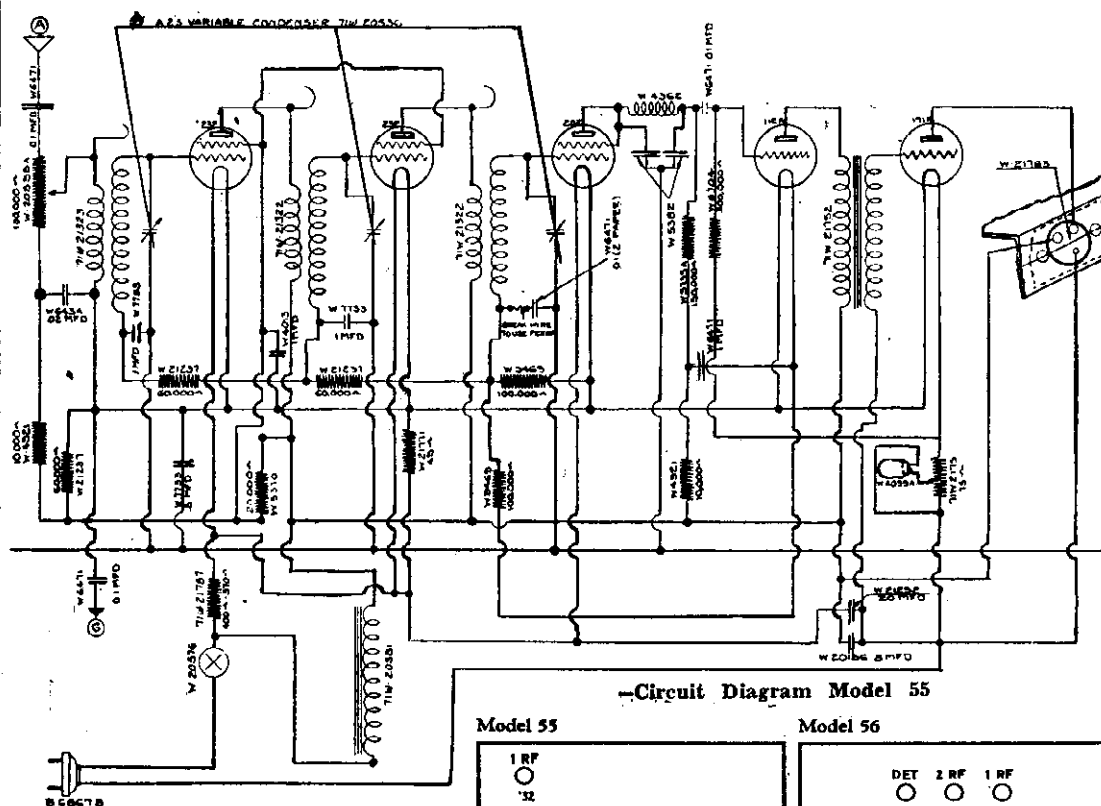
To be measured with speaker connected, tubes in place, and line voltage of 117½ (235 for 220 volt receivers) with fuse in "High" position or of 107½ (215 for 220 volt receivers) with fuse in "Low" position. Measure plate and grid voltages with a high-resistance D. C. voltmeter (600 ohms or more per volt) from plate or grid tube contact to emitter contact, except in the case of the grid voltages of the detector and audio tubes, which should be measured from the emitters to the chassis. The filaments of the output and rectifier tubes serve as the emitters, while the other tubes have heaters and separate emitters. Measure filament voltages with a low-range A. C. voltmeter.

Black0 Orange3 Violet7
 Brown1 Yellow4 Gray8
 Red2 Green5 White9
 Blue6

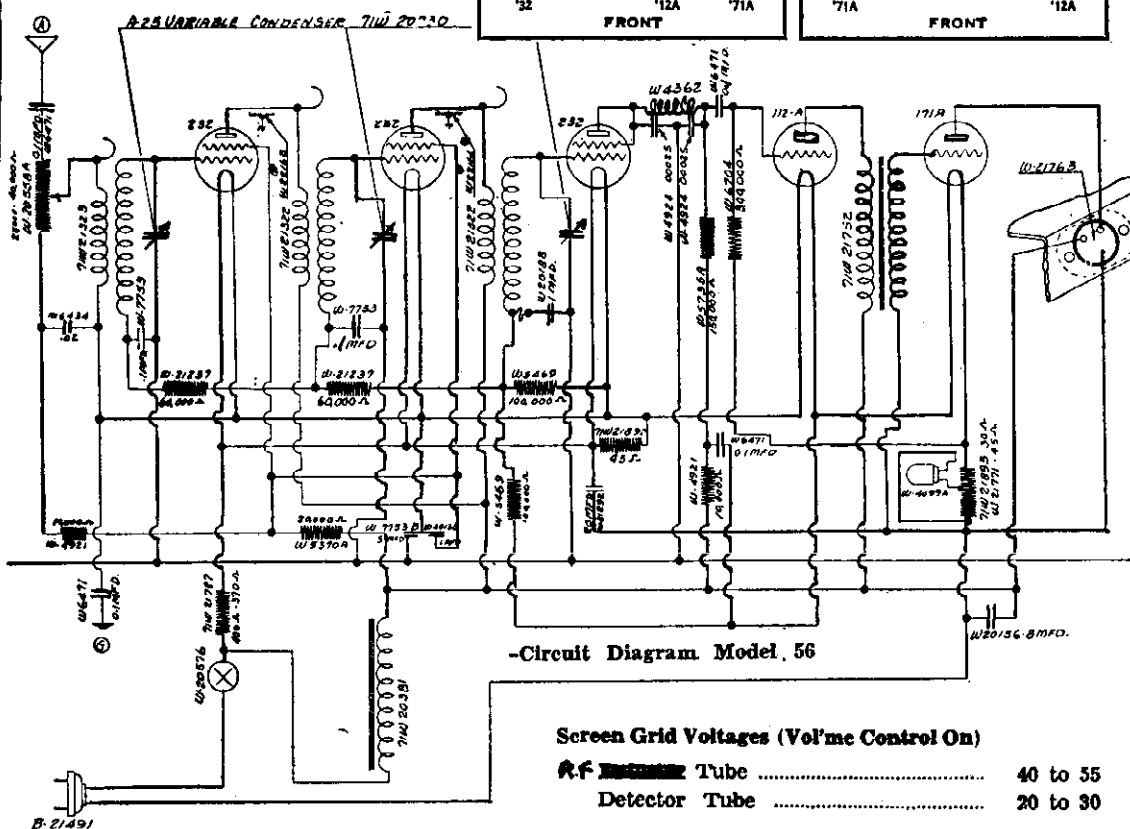
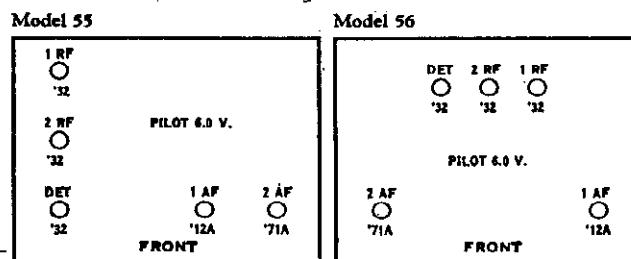
For example, a resistor with orange body color, green end color, and a red dot has a resistance of 3500 ohms.

CROSLEY RADIO CORP.

MODEL 55
MODEL 56
Schematic
Voltage



Circuit Diagram Model 55



-Circuit Diagram Model, 56

Screen Grid Voltages (Vol'me Control On)

A.F. Detector Tube	40 to 55
Detector Tube	20 to 30

Plate Voltage

R. F. Tubes	80 to 90
Detector Tube	20 to 30
1st A. F. Tube	75 to 90
Output Tube	85 to 100

Control Grid Voltages

R. F. and Detector Tubes	1.2 to 1.3
1st A. F. Tube	4.0 to 5.0
Output Tube	10.0 to 15.0

Filament Voltages

R. F. and Detector Tubes	1.5 to 2.0
A. F. Tubes	4.2 to 5.0

MODEL 55
MODEL 56
Parts Lists
CROSLEY RADIO CORP.**Parts List Model 55**

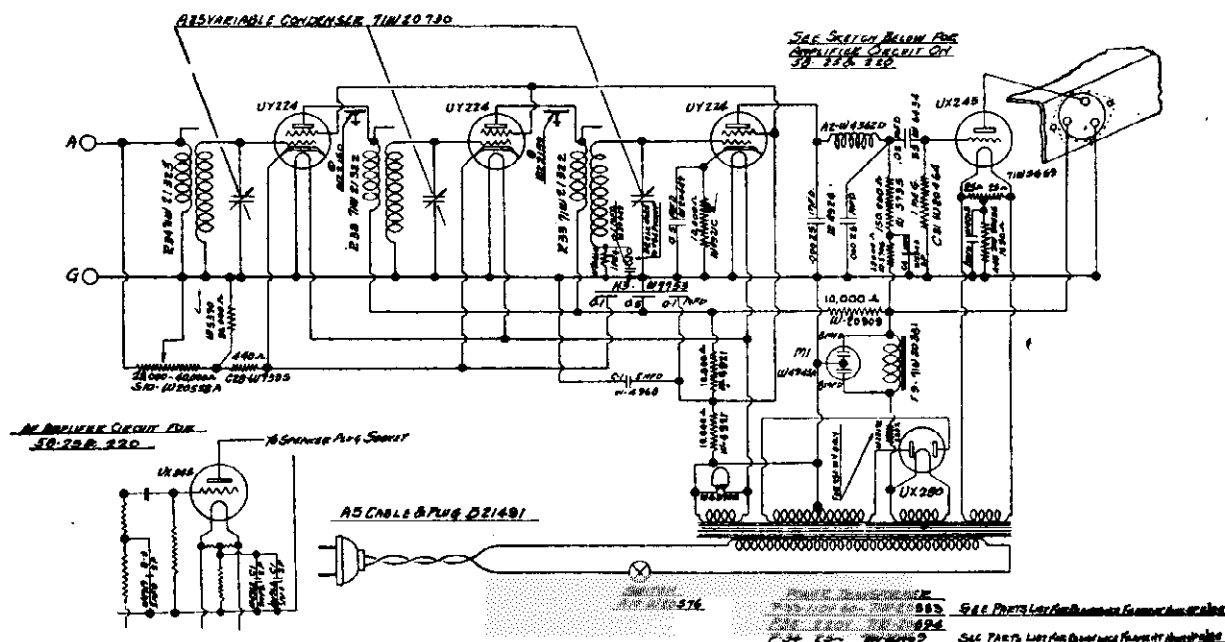
INSTRUCTIONS FOR ORDERING—Give part number, description of part, and serial number of receiver on which part is to be used. If article wanted is not listed separately, then that part of complete assembly containing this article should be ordered. Goods shipped on open account to Crosley Wholesale Distributors only. Cash must accompany Dealer and Consumer orders. Prices are subject to the usual trade discounts.

Qty.	Part No.	Description	List Price Each	Qty.	Part No.	Description	List Price Each
1	D-21761	Chassis	2.00	2	W-5382	0.00025 Mfd. Fixed Condenser	.35
5	W-7871	Socket (4 Prong)	.25	1	W-6471	0.1 Mfd. Fixed Condenser (2 paper)	1.00
5	W-7874	Socket Guide	.10	1	W-5469	Resistor 100,000 ohms (brown, black, yellow spot)	.60
2	W-21322	R. F. Transformer	2.50	2	W-21237	Resistor 60,000 ohm	.60
1	W-21323	R. F. Transformer (Ant.)	2.50	1	W-6434	0.02 Mfd. Fixed Condenser	.60
3	W-21739	Grid Connectors	.25	1	W-20940	Resistor Assembly	1.00
3	B-21174	R. F. Coil Shield	.50	1	W-5713	Mounting Strip	.25
1	W-20658	Volume Control	1.75	1	W-4921	Resistor 10,000 ohms	.60
1	W-20630	Variable condenser gang	18.00	1	W-4362	Plate Choke	.50
1	W-20981	Spider	.30	1	W-7753	0.1-0.5-0.1 Mfd. Fixed Condenser	2.00
1	W-7154	Dial Gear	.15	1	W-4013	1. Mfd. Fixed Condenser (2 paper)	1.35
1	W-5596	Set Screw	.05	1	W-6471	0.1 Mfd. Fixed Condenser	1.00
1	W-5354D	Dial Indicator	.25	1	W-21754	Resistor Assembly	3.15
1	W-4899	Pinion	.35	1	W-21771	Mounting Strip & Resistance (45 ohm)	.45
1	W-20594	Pinion Bracket (inner)	.15	1	W-5735	Resistor 150,000 ohms (brown, green, yellow spot)	.60
1	W-20595	Pinion Bracket (outer)	.15	1	W-4921	Resistor 10,000 ohms (brown, black, orange spot)	.60
1	W-4907	Spring Washer	.05	1	W-5469	Resistor 100,000 ohms (brown, black, yellow spot)	.60
1	W-20722	Dial Light Bracket	.25	1	W-6704	Resistor 300,000 ohms (orange black, yellow spot)	.60
1	W-20576	Power Switch	.75	1	W-20630	Bottom Bracket	.10
1	B-21762	Chassis Plate	.15	1	W-6471	0.1 Mfd. Fixed Condenser (2 paper)	1.00
1	W-20150	8 Mfd. Condenser	5.00	1	W-21751	Resistance Assembly (45-30 ohms)	.40
1	W-21760	Filament drop resistor (400-370 ohms)	1.00	1	W-21798	Junction Block	.10
1	W-21779	Filament drop resistor bracket	.10	1	W-6471	0.1 Mfd. Fixed Condenser (2 paper)	1.00
2	W-4435	Asbestos Washer	.05	1	W-20883	Terminal (A. G. & P. H.)	.50
1	W-20381	Filter Choke	3.25	1	W-21763	Speaker Terminal Socket	.40
1	W-21292	Electrolytic Condenser (20 mfd.)	2.00	1	B-8967	Cable	1.50
1	W-21752	A. F. Transformer	5.00	1	C-21581	R. F. Shield Assembly	1.25
PARTS UNDER CHASSIS				1	C-20638	Chassis Bottom	.50
1	W-6471	0.1 Mfd. Fixed Condenser (2 paper)	1.00	1	W-20167	Knob (large)	.40
1	W-21109	Resistor Assembly	1.00	2	W-20482	Knob (small)	.35
1	W-5713	Mounting Strip	.25				
1	W-5370	Resistor 20,000 ohms (red, black, orange spot)	.60				
1	W-21237	Resistor 60,000 ohms (blue, black, orange spot)	.60				

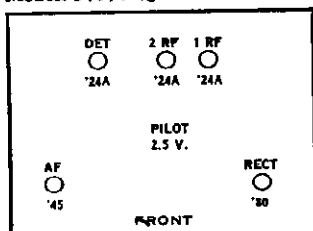
Parts List Model 56

Qty.	Part No.	Description	List Price Each	Qty.	Part No.	Description	List Price Each
1	C-21000	Chassis	1.75	1	W-6434	0.02 Mfd. Fixed Condenser	.60
5	W-7871	Socket (4 prong)	.25	1	W-7753	0.1-0.5-0.1 Mfd. Fixed Condenser	2.00
5	W-7874	Socket Guide	.10	1	W-4013	1. Mfd. Fixed Condenser (2 paper)	1.35
1	W-20658	Volume Control	1.75	1	W-21237	Resistor (60,000 ohms) Blue, black, orange	.60
1	W-21752	A. F. Transformer	5.50	1	W-5469	Resistor 100,000 ohms Brown, black, yellow	.60
1	W-21760	Filament Drop Resistor (400-370 ohms)	1.00	1	W-21237	Resistor (60,000 ohms)	.60
1	W-21779	Filament Drop Resistor Bracket	.10	3	W-21127	Stiffened Sleeving (3-8"x2")	.05
2	W-4435	Asbestos Washer	.05	1	W-20873	Bottom Bracket	.10
1	W-20730	Variable Condenser Gang	18.00	2	W-6471	0.1 Mfd. Fixed Condenser (2 paper)	1.00
1	W-20681	Spider	.30	1	W-21895	Fixed Resistance Assembly	2.50
1	W-22093	Dial	.25	1	W-21771	Resistance and mounting strip (45 ohms)	.45
1	W-22094	Dial Strip	.25	1	W-5735	Resistor 150,000 ohms (Brown, green, yellow)	.60
1	W-20977	Dial Band	.20	1	W-6704	Resistor 300,000 ohms (Orange, black, yellow)	.60
2	W-21322	R. F. Transformers	2.50	1	W-4921	Resistor 10,000 ohms (Brown, black, orange)	.60
1	W-21323	R. F. Transformers (antenna)	2.50	1	W-21894	Resistance Assembly	2.35
3	W-21739	Grid Connectors	.25	1	W-6028	Mounting Strip	.30
3	W-21257	R. F. Coil Shields	.50	1	W-4921	Resistor (10,000 ohm Brown, black, orange)	.60
1	C-20871	R. F. Shield	1.25	1	W-5469	Resistor (100,000 ohm) Brown, black, yellow	.60
1	W-20576	Power Switch	.75	1	W-5370	Resistor (20,000 ohm) Red, black, orange	.60
1	W-22090	Dial Light Bracket	.25	1	W-21292	20 Mfd. Condenser	2.00
1	W-21901	Chassis Plate	.15	1	B-21491	Cable	1.50
1	W-20381	Filter Choke	3.25	1	C-20872	Chassis Bottom	.50
1	W-20156	Condenser (8 Mfd. 2 paper)	5.00	2	W-20482	Knob (Small)	.35
1	W-21763	Speaker Terminal	.40				
1	W-20883	Terminal A. G. & P. H.	.50				
PARTS UNDER CHASSIS							
1	W-21893	Fixed Resistance (30 ohm)	.40				
1	W-21892	Fixed Resistance (45 ohm)	.40				
1	W-20188	0.1 Mfd. Fixed Condenser	.60				
1	W-4362	Plate Choke	.50				
2	W-4924	0.00025 Mfd. Fixed Condenser	.35				
2	W-6471	0.1 Mfd. Fixed Condenser (2 paper)	1.00				

CROSLLEY RADIO CORP.

MODEL 58
Schematic
Parts List

Models 54G, 58Q *



Circuit Diagram Model 58

For Voltage Data See Model 54

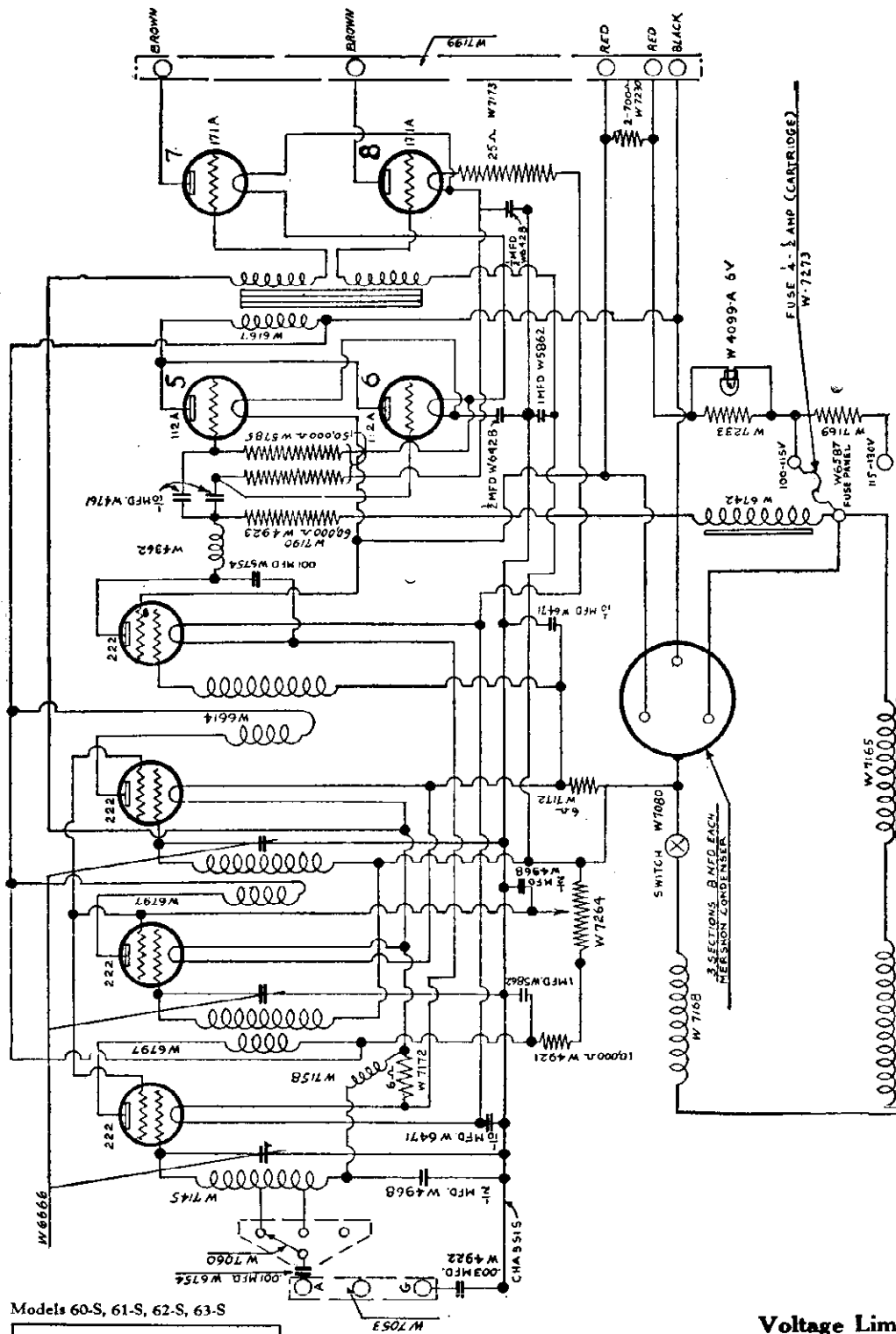
Parts List—Model 58

INSTRUCTIONS FOR ORDERING—Give part number, description of part, and serial number of receiver on which part is to be used. If article wanted is not listed separately, then that part of complete assembly containing this article should be ordered. Goods shipped on open account to Crosley Wholesale Distributors only. Cash must accompany Dealer and Consumer orders. Prices are subject to the usual trade discounts.

Qty.	Part No.	Description	List Price Each	Qty.	Part No.	Description	List Price Each
1	W-21509	Chassis	1.75	PARTS UNDER CHASSIS			
3	W-7873	Socket (5 Prong)	.30	1	W-5069	25 -25 ohm Resistance	.40
2	W-7871	Socket (4 Prong)	.25	1	W-20556	1050 ohm Resistance	.35
1	W-21518	Speaker Socket	.40	1	W-5943	.1 Mfd. Fixed Condenser	1.10
4	W-7874	Socket Guide	.10	2	W-4924	.00025 Mfd. Fixed Condenser	.35
1	W-21297	Socket Guide (280)	.10	1	W-4962	Plate Choke	.50
1	W-20683	Terminal Board (A. G. & Ph.)	.50	1	W-6434	.02 mfd. Fixed Condenser	.60
1	W-20658	Volume Control	1.75	1	W-4013	1 mfd. Fixed Condenser	1.35
1	W-20381	Filter Choke	3.25	1	W-20440	.5 -1 mfd. Fixed Condenser	1.25
1	W-4943	Merchoon Condenser	4.25	1	W-7753	.5 mfd. Fixed Condenser	2.00
2	W-5083	Condenser Clamp	.15	1	W-4968	5 mtd. Fixed Condenser	1.20
1	W-4946	Condenser Cap	.25	1	W-21955	3250 ohm Candohm Resistance (2 Section)	.80
1	W-20730	Variable Condenser Gang	18.00	1	W-21956	3160 ohm Candohm Resistance	.30
1	W-22090	Dial Light Bracket Assembly	.40	1	W-22043	Mounted Resistor Assembly	2.35
1	W-22095	Dial Drum Assembly	.80	1	W-20000	Mounting Strip	.30
1	W-22094	Dial Indicator Cover	.25	1	W-3735	150,000 ohm Resistor	.60
1	W-20977	Dial Band	.20	1	W-5370	20,000 ohm Resistor	.60
2	W-21322	R. F. Transformer	2.50	1	W-6706	25,000 ohm Resistor	.60
1	W-21323	R. F. Transformer (Antenna)	2.50	1	W-22082	Mounted Resistor Assembly	3.00
3	W-21739	Grid Connector	.25	1	W-20090	Mounting Strip	.30
3	W-21257	R. F. Coil Shield	.50	1	W-4921	10,000 ohm Resistor	.60
1	W-20676	Power Switch	.75	2	W-20464	1 Meg. Resistor	.60
1	W-22025	Power Transformer (110 V. 60 Cycle)	13.00	1	W-7335	440 Ohm Resistor	.60
2	W-21507	Tie Straps	.10	1	B-21491	Cable	1.50
1	C-20671	R. F. Shield	1.25	1	C-20672	Chassis Bottom	.50
				1	W-20873	Bottom Bracket	.10
				2	W-20462	Knob	.35
					W-7947	Knob Spring	.06

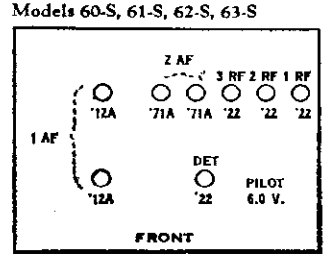
MODELS 60S, 61S, 62S, 63S
Schematic, Voltage

CROSLLEY RADIO CORP.



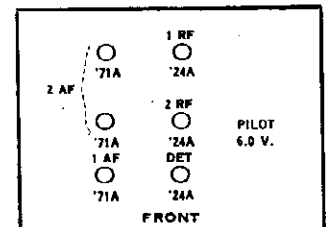
Control Grid Voltages	
R. F. Tubes	1.4 to 2.3
Detector tube	4.0 to 5.5
112A A. F. tubes (measured to low side of grid resistor)	4.2 to 5.5
Output tubes	14.0 to 19.0
Screen Grid Voltages	
1st R. F. tube	47 to 67
2nd and 3rd R. F. tubes	50 to 70
Detector	14 to 34

Plate Voltages	
1st R. F. tube	90 to 100
2nd R. F. tube	93 to 103
3rd R. F. tube	95 to 105
Detector tube	64 to 74
A. F. Tube No. 5 (see circuit diagram for this and following tube numbers)	66 to 76
A. F. tube No. 6	72 to 82
Output tube, No. 7	77 to 87
Output tube, No. 8	81 to 91



Voltage Limits

Filament Voltages	
R. F. and Detector tubes	2.6 to 3.4
All A. F. tubes	4.2 to 5.5
Volume Control on Full	



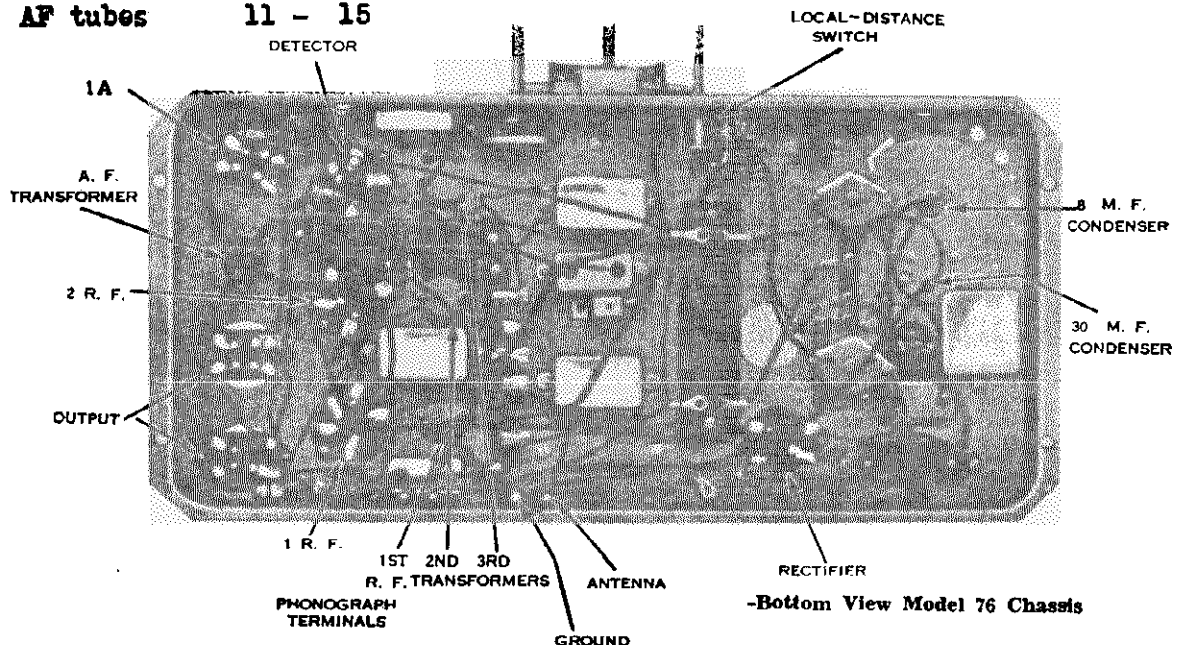
2.3- 2.6
4.6- 5.2

90 - 110
60 - 70
80 - 100

2 - 3.0
3 - 3.5
11 - 15

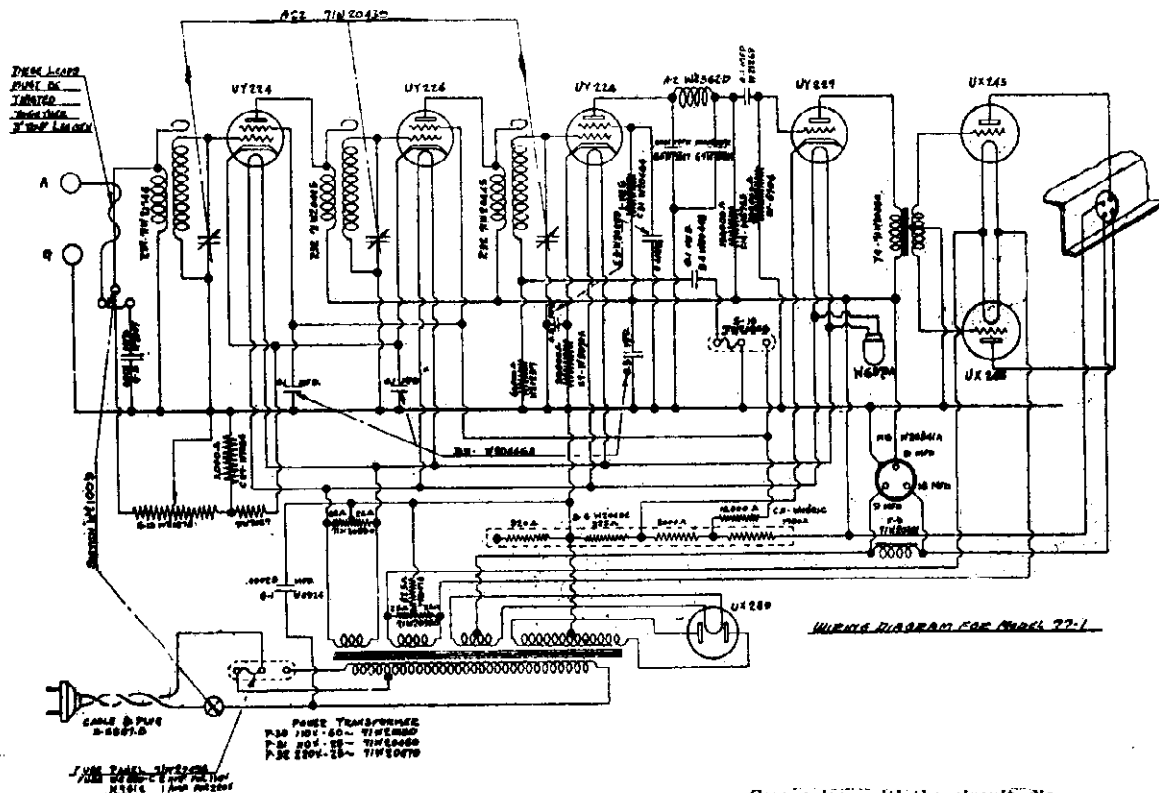
60 - 80
9 - 11

To be measured with speaker in circuit. Fuse in "high" for 117.5 line voltage and in "low" position for 107.5 line voltage.

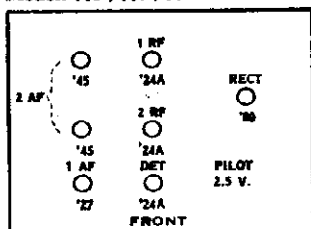


MODEL 77-1
Schematic
Bottom View, Notes

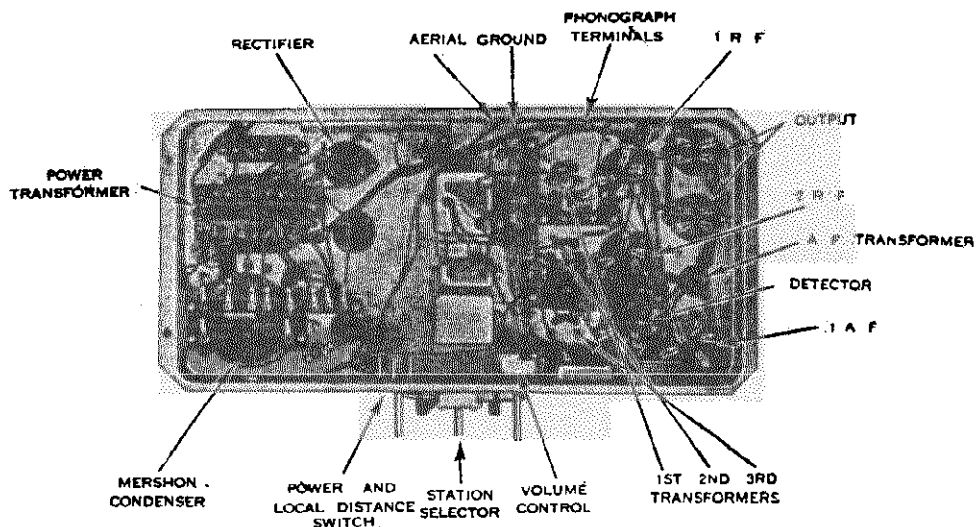
CROSLLEY RADIO CORP.



Models 77A, 77B, 77L

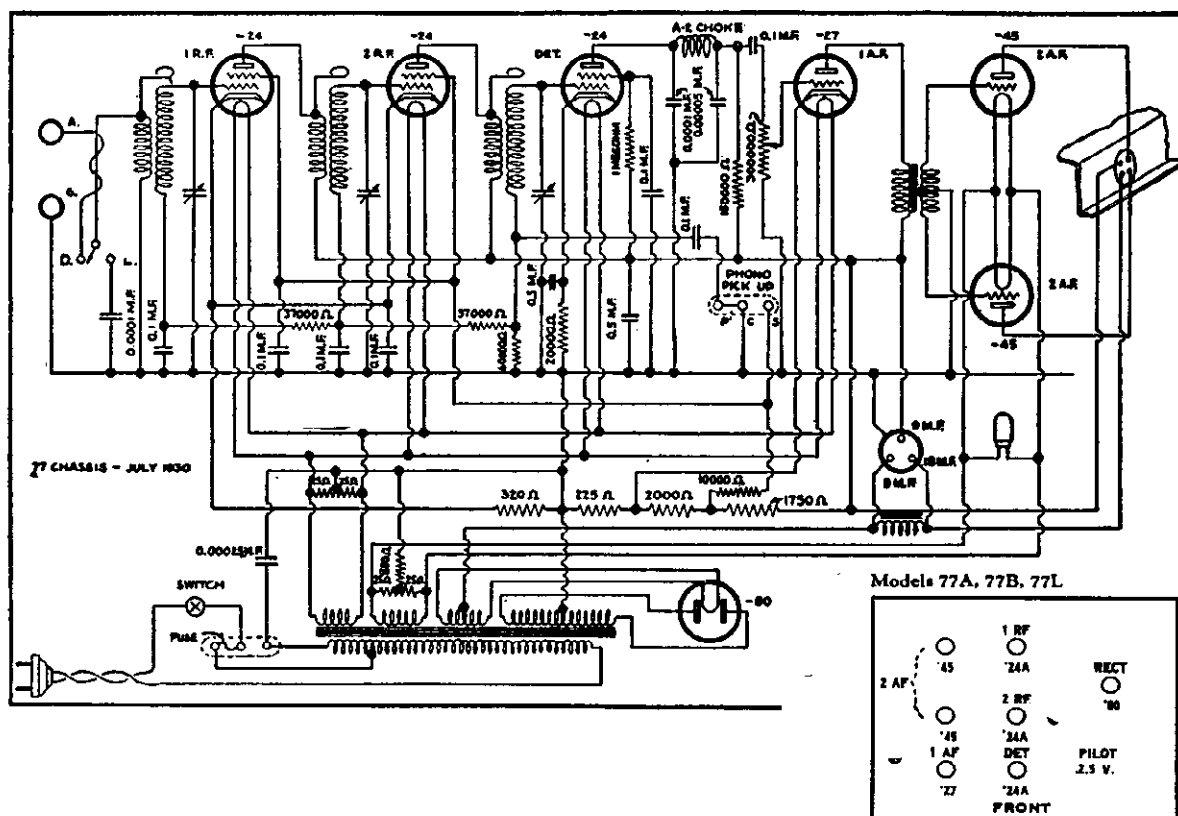


Comparison with the circuit diagram of Model 77, will show that the 37,000 ohm and 10,000 ohm isolating resistors, and the 0.1 micro-farad isolating condensers have been removed from the radio-frequency circuit. In addition a new type of volume control is used, located in the first stage r. f. instead of in the audio frequency circuit. The antenna coil has a low-impedance primary, and is not interchangeable with that on Model 77. These are the essential differences.



-Bottom View Model 77-1

CROSLEY RADIO CORP.

MODELS 77A, 77B, 77L
Schematic, Voltage

Voltage Limits

Filament Voltages	
All tubes but rectifier	2.3 to 2.6
Rectifier tube	4.6 to 5.2
Plate Voltages	
R. F. tubes	140 to 160
Detector tube	85 to 110
1st Audio tubes	125 to 150
Output tubes	230 to 260
Rectifier tube (A. C. Voltage)	250 to 280 each plate
Control Grid Voltages	
R. F. tubes	1.6 to 3.2
Detector tube	2.0 to 3.2
1st Audio tube	8.0 to 10.0
Output tubes	45. to 65.
Screen Grid Voltages	
R. F. tubes	75 to 90
Detector tube	35 to 55

To be measured with speaker connected and line voltage of $117\frac{1}{2}$ (235 for 220 volt receivers) with fuse in "High" position or of $107\frac{1}{2}$ (215 for 220 volt receivers) with fuse in "Low" position. Measure plate and grid voltages with a high-resistance, D. C. voltmeter (600 ohms or more per volt) from plate or grid tube contact to emitter contact, except in the case of the grid voltage of the first audio tube, which should be measured from the emitter to the chassis. The filaments of the output and rectifier tubes serve as the emitters, while the other tubes have heaters and separate emitters. Measure filament voltages with a low-range, A. C. voltmeter.

All voltage readings are to be taken with the speaker connected and the tubes in place.

Installation Notes

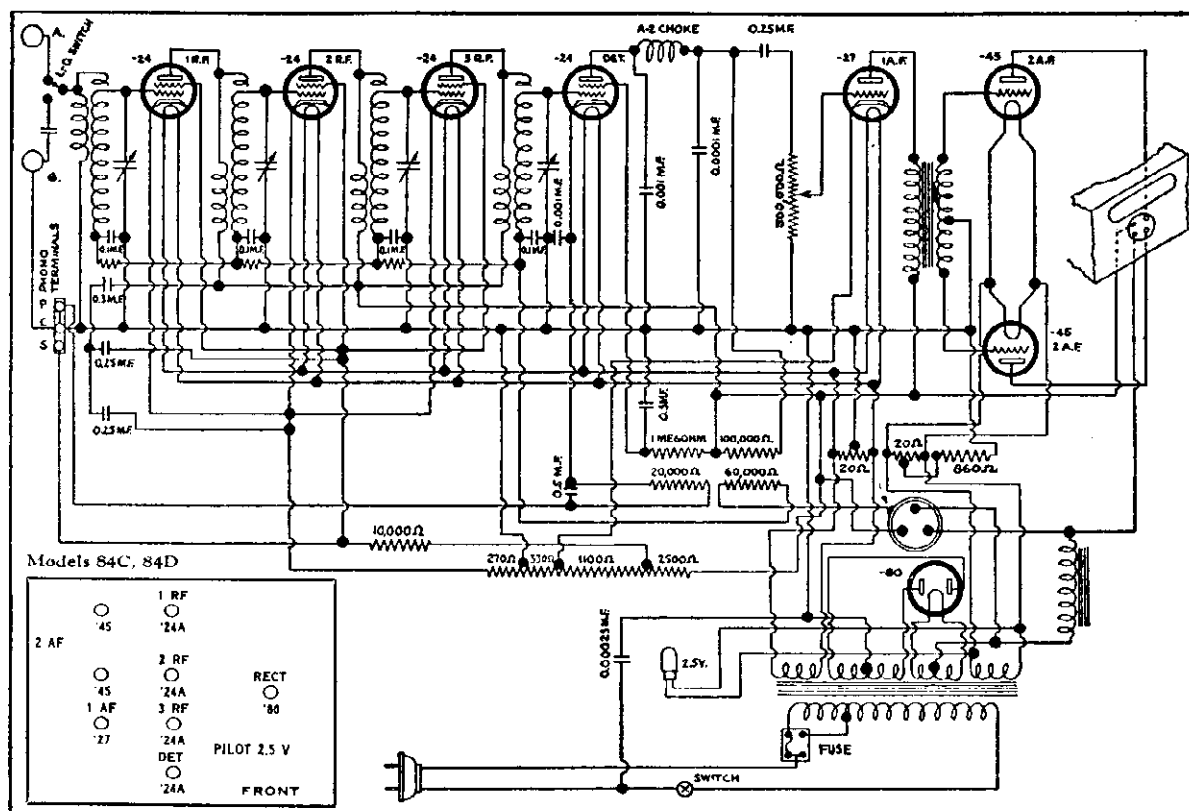
Recommended aerial length: 50 feet or more for outdoor aerial, 20 to 50 feet for indoor aerial.

There are three terminals at the rear of the chassis, marked "P", "C", and "S", for phonograph pick up devices. Instructions for connecting these in Crosley phono-radio combinations will be found in the instruction books accompanying the receivers. To connect other types of phonograph pick up, a single-pole double-throw switch is required. Cut the wire between terminals "P" and "C". Connect the center pole of the switch to terminal "C". Connect the end poles of the switch to terminals "P" and "S". Connect the two leads from the phonograph pick up to the switch poles which are connected to "P" and "C" (terminal "C" is grounded to the chassis). For phonograph reproduction, throw the switch so that the terminals "C" and "S" are connected together. For radio reproduction, throw the switch so that the terminals "P" and "C" are connected together. The volume of phonograph reproduction may be controlled by the volume control on the radio receiver.

If the phonograph attachment is disconnected from the receiver at any time and it is desired to obtain radio reception, it will be necessary to connect a wire from "P" to "C."

MODELS 84C, 84D
Schematic, Voltage
Notes

CROSLEY RADIO CORP.



INSTALLATION NOTES

Recommended aerial length, 50 feet
or more for outdoor installations;
20 feet or more for indoor install-
ations.

Terminals are provided for phonograph pick-up devices. When such a device is connected, the wire between terminals "P" and "C" must be out. If the pick-up device is afterwards disconnected, a wire must be connected between "P" and "C" before the receiver may be operated.

To connect a phonograph pick-up a double throw, single-pole switch must be used. Connect the middle pole of the switch to terminal "C" and the end poles to terminals "P" and "S". Connect the pick-up to the switch poles which are connected to "P" and "C", and cut the wire between "P" and "C", as described above. Throw switch toward "P" pole for radio reproduction or toward "S" pole for phonograph reproduction.

Voltage Limits

Filament Voltages	
All tubes but rectifier	2.3 to 2.6
Rectifier tube	4.6 to 5.2
Plate Voltages	
R. F. tubes	170 to 190
Detector tube	95 to 105
1st Audio tube	130 to 150
Output tubes	220 to 250
Rectifier tube (A. C. voltage)	250 to 280
	each plate
Control Grid Voltages	
R. F. tubes	2.5 to 3.5
Detector tube	4.0 to 7.0
1st Audio tube	8.0 to 11.0
Output tubes	40.0 to 50.0
Screen Grid Voltages	
R. F. tubes	60 to 75
Detector tube	35 to 55

To be measured with speaker connected and line voltage of 117½ (235 for 220 volt receivers) with fuse in "High" position or of 107½ (215 for 220 volt receivers) with fuse in "Low" position. Measure plate and grid voltages with a high-resistance, D. C. voltmeter (600 ohms or more per volt) from plate or grid tube contact to emitter contact, except in the case of the grid voltage of the first audio tube, which should be measured from the emitter to the chassis.