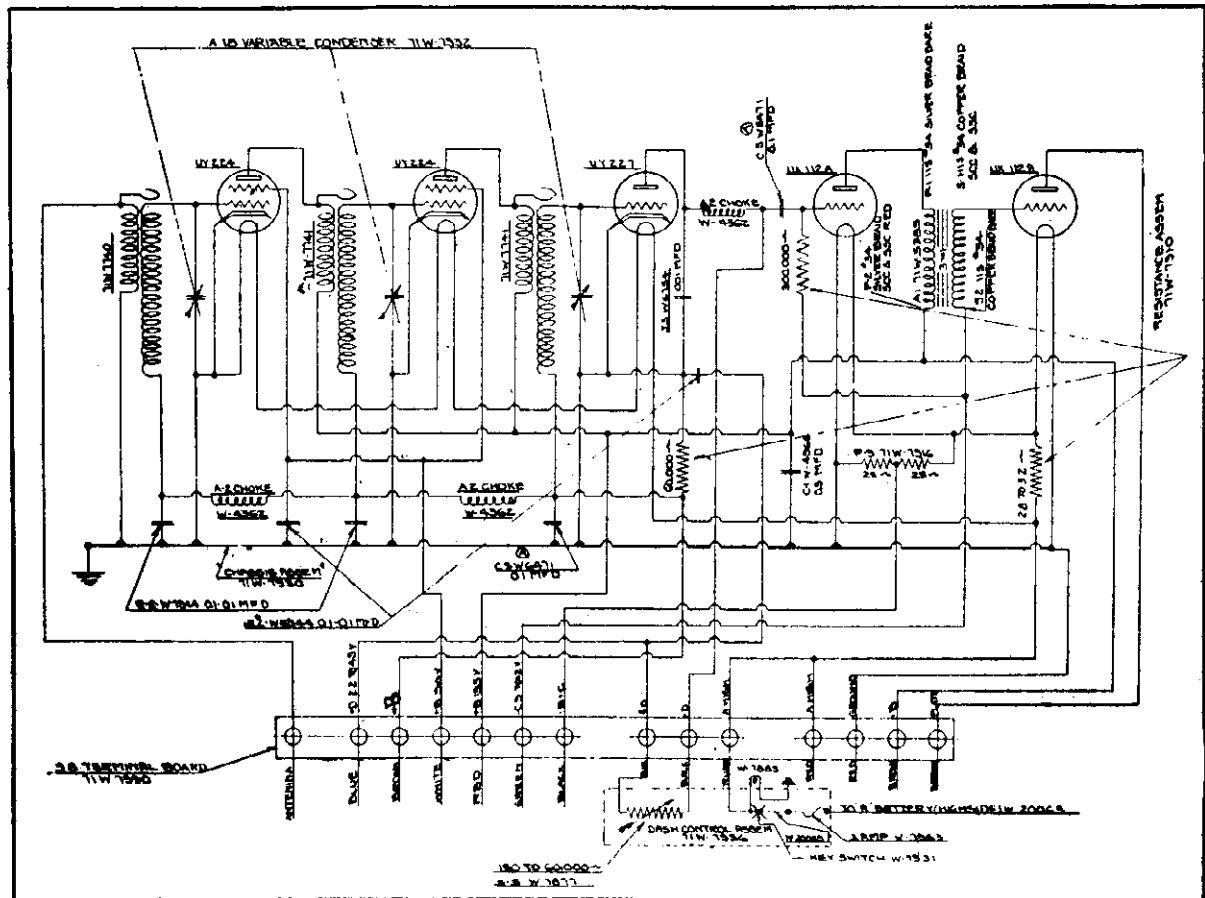


## CROSLEY RADIO CORP.

MODEL 90 AUTO  
Schematic, Voltage

## Filament Voltages

R. F. and Detector Tubes.....	2.0
A. F. Tubes.....	4.7

## Plate Voltages

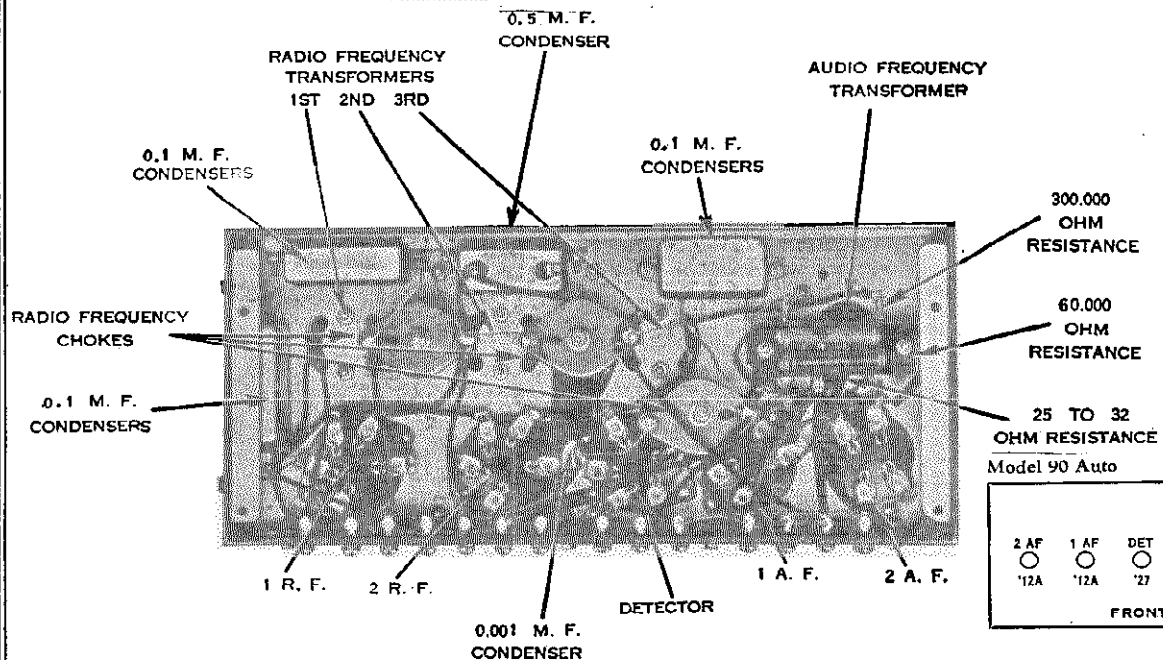
All Tubes but Detector.....	135
Detector Tube.....	22½

## Control Grid Voltages

R. F. Tubes.....	2.5
Detector Tube.....	3.0
A. F. Tubes.....	12.0

## Screen Grid Voltages

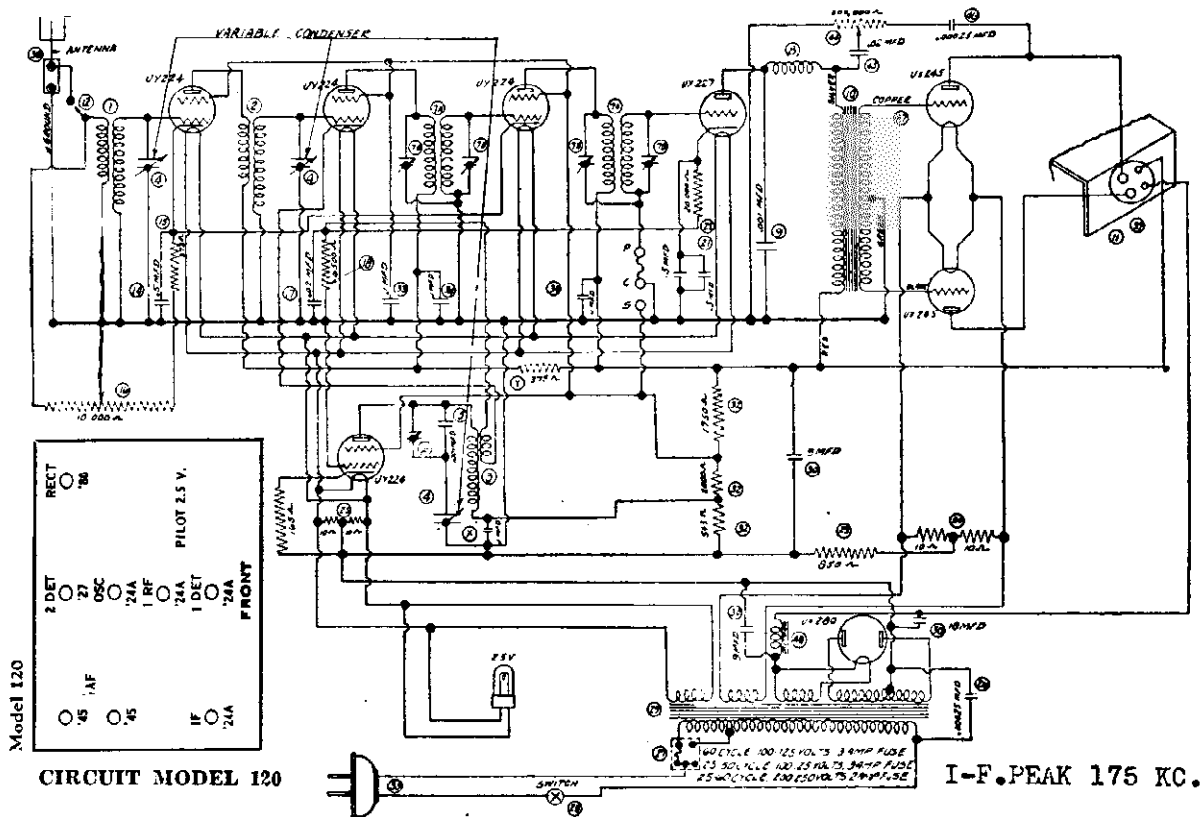
R. F. Tubes.....	90
------------------	----



2 AF '12A	1 AF '12A	DET '27	2 RF '24A	1 RF '24A
FRONT				

MODEL 120  
Schematic  
Voltage, Notes

## CROSLLEY RADIO CORP.



## Voltage Limits

## Filament Voltages

All tubes but output and rectifier ..	2.4 to 2.6
Output tubes .....	2.3 to 2.5
Rectifier tube .....	2.6 to 5.2

## Plate Voltages

1st R. F. and Intermediate Amplifiers .....	150 to 170
Oscillator .....	16 to 25
1st Detector .....	145 to 165
2nd Detector .....	135 to 155
Output .....	245 to 275
Rectifier (A. C. voltage) .....	260 to 290 each plate

## Screen Grid Voltages

All screen grid tubes .....	85 to 95
-----------------------------	----------

## Control Grid Voltages

1st R. F. and Intermediate Amplifiers ..	2.5 to 3.5
Oscillator .....	0.5 to 1.5
1st Detector .....	6.0 to 8.0
2nd Detector .....	13.0 to 17.0
Output tubes .....	50 to 58.0

To be measured with speaker connected, volume control on full, 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.

To Compensate For Long Aerial  
With 120 Chassis

Model 120 is so sensitive that a long aerial may give undesirably great pick-up. To reduce the pick-up, connect a 0.0025 mfd. condenser from the antenna terminal to the ground terminal of the receiver, and a 0.00005 mfd. condenser in the antenna lead.

## Changes In 120 Chassis

Service Bulletin No. A1 of March 15th covers the A. B. J. A. series of the 120 Chassis. Sets having serial prefix letters A. B. J. B. contain the following changes. Prices of parts remain the same.

W-22017 I. F. Transformer Assembly is replaced by W-22017-E I. F. Transformer Assembly.

W-21989 Coil Assembly is replaced by W-21989-B Coil Assembly.

W-21295 I. F. Transformer Assembly is replaced by W-21295-B I. F. Transformer Assembly.

W-21964 Flexible Resistor (165 ohms) is omitted.

W-21965 Flexible Resistor (375 ohms) is added.

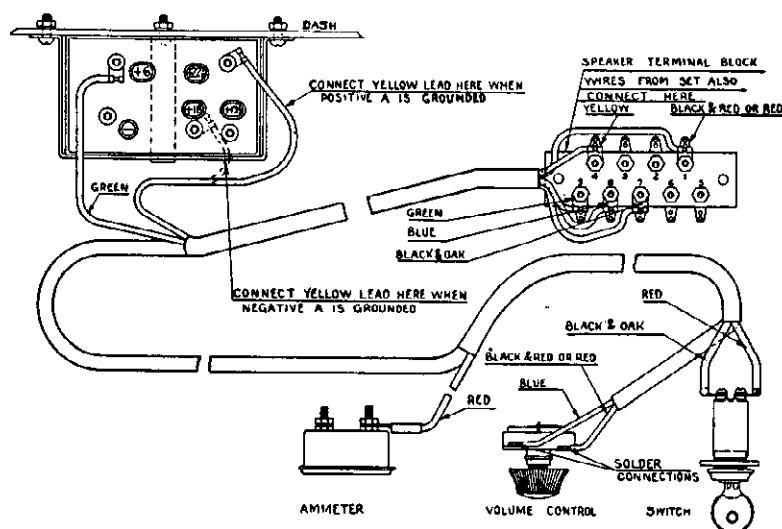
W-21995 R. F. Transformer (oscillator) (Rear) is replaced by W-22589 R. F. Transformer (oscillator).

New type I. F. Coil Assemblies are marked with a dot of red paint.

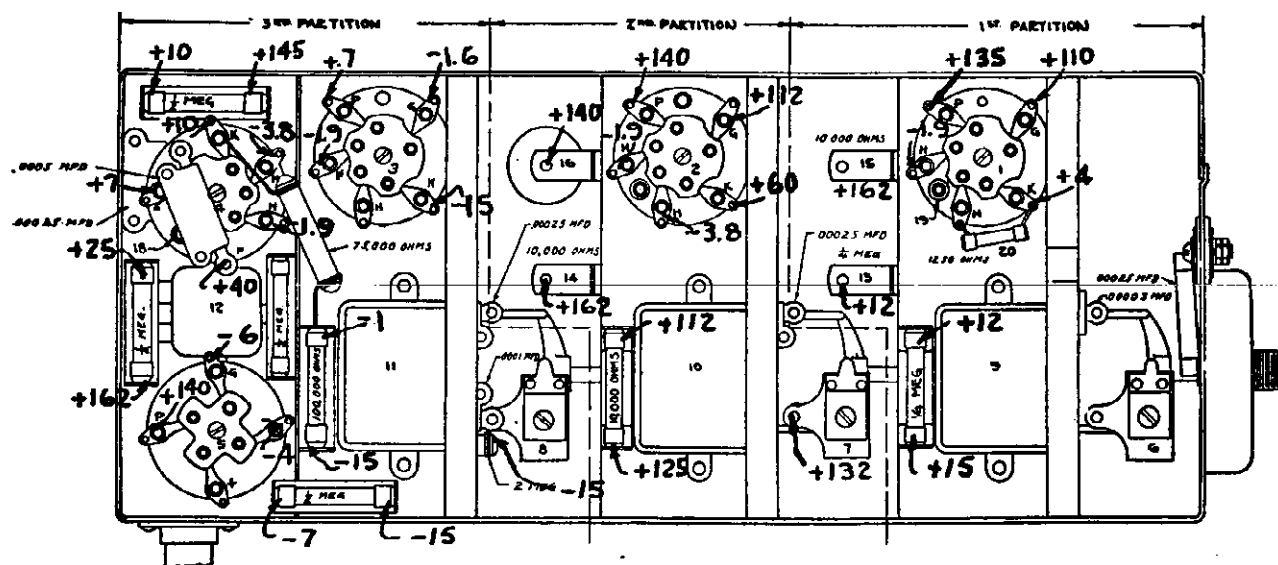
New type R. F. Transformer (oscillator), W-22589, has five connections instead of four

**MODEL 3002**

After the set is in operation on a powerful signal, it will be necessary to tune the antenna circuit so that weaker signals will be received with the maximum volume. The best way to do this is to connect a milliammeter, with a zero to ten milliamperes scale, in series with the B Plus 67.5 volt maroon lead. (Connect positive side of meter to set.) Insert a small screw driver in the hole in the bottom of the receiver located nearest the antenna terminal and adjust the large screw on the first balancing condenser. This is located about two inches above the hole. Adjustments should be made by turning the screw until the minimum reading on the meter is obtained. While this adjustment is being made, the station selector should be turned slightly in either way to determine whether or not the reading can be further decreased. This adjustment is a very delicate operation and requires only a slight movement in either direction, not to exceed one full turn. If a meter is not available, a weaker signal should be selected and the set adjusted to maximum volume by varying the position of the screw. Care should be taken not to apply excessive pressure in making this adjustment. While it will do no damage to ground the screw driver to the set while adjusting the screw, the signals will be cut out whenever the screw driver touches the case. A little tape wound around the screw driver will prevent this. It is impossible to receive a shock while making this adjustment. Make above adjustment only through the hole located nearest the aerial connection. After installation is complete, check all connections for correct locations and tightness.



### Control Wiring Harness Connections.



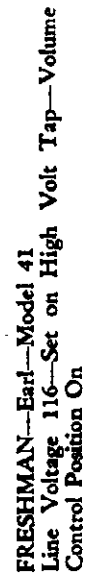






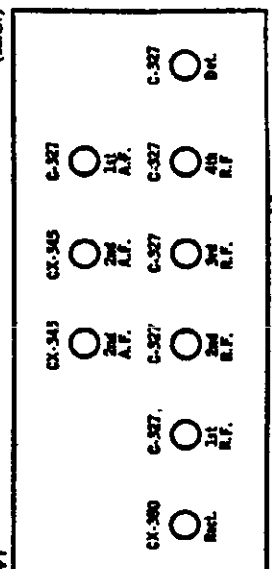


MODEL 41, 42 AC  
Schematic



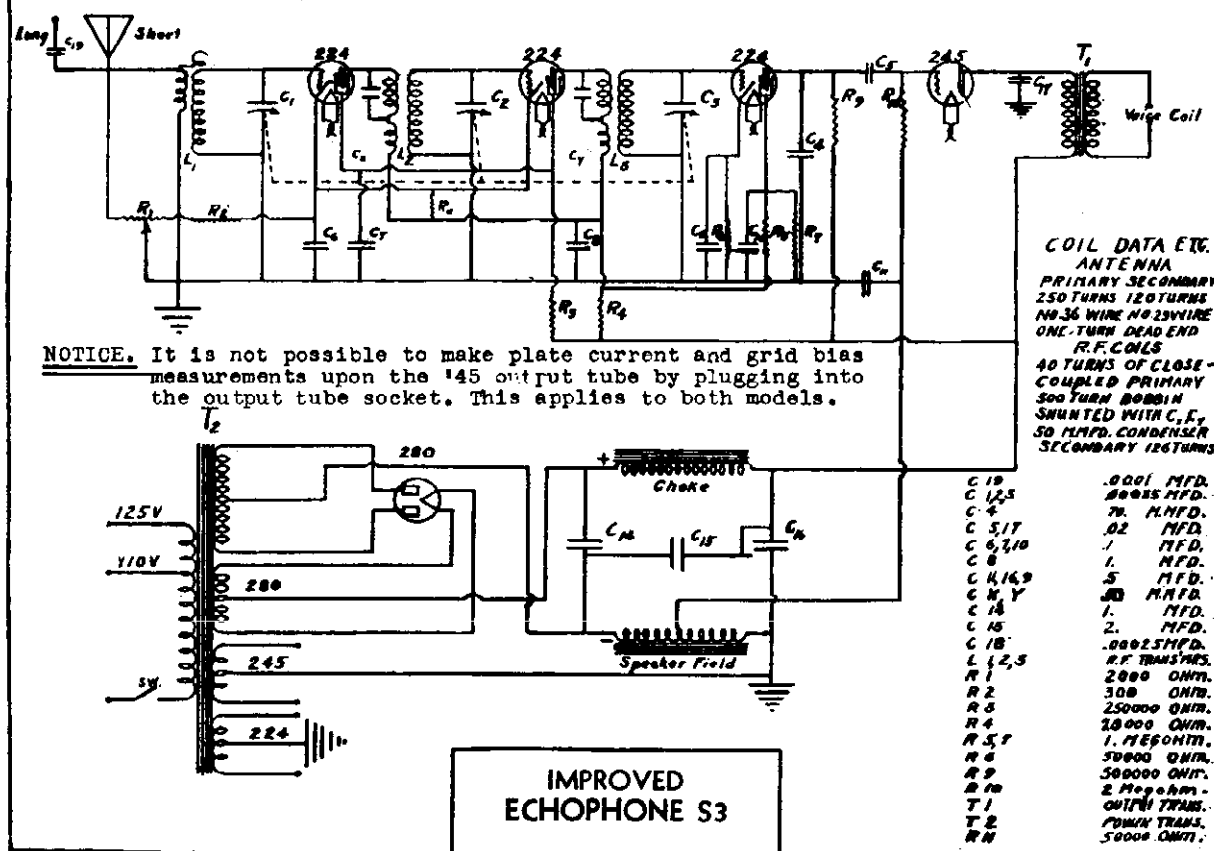
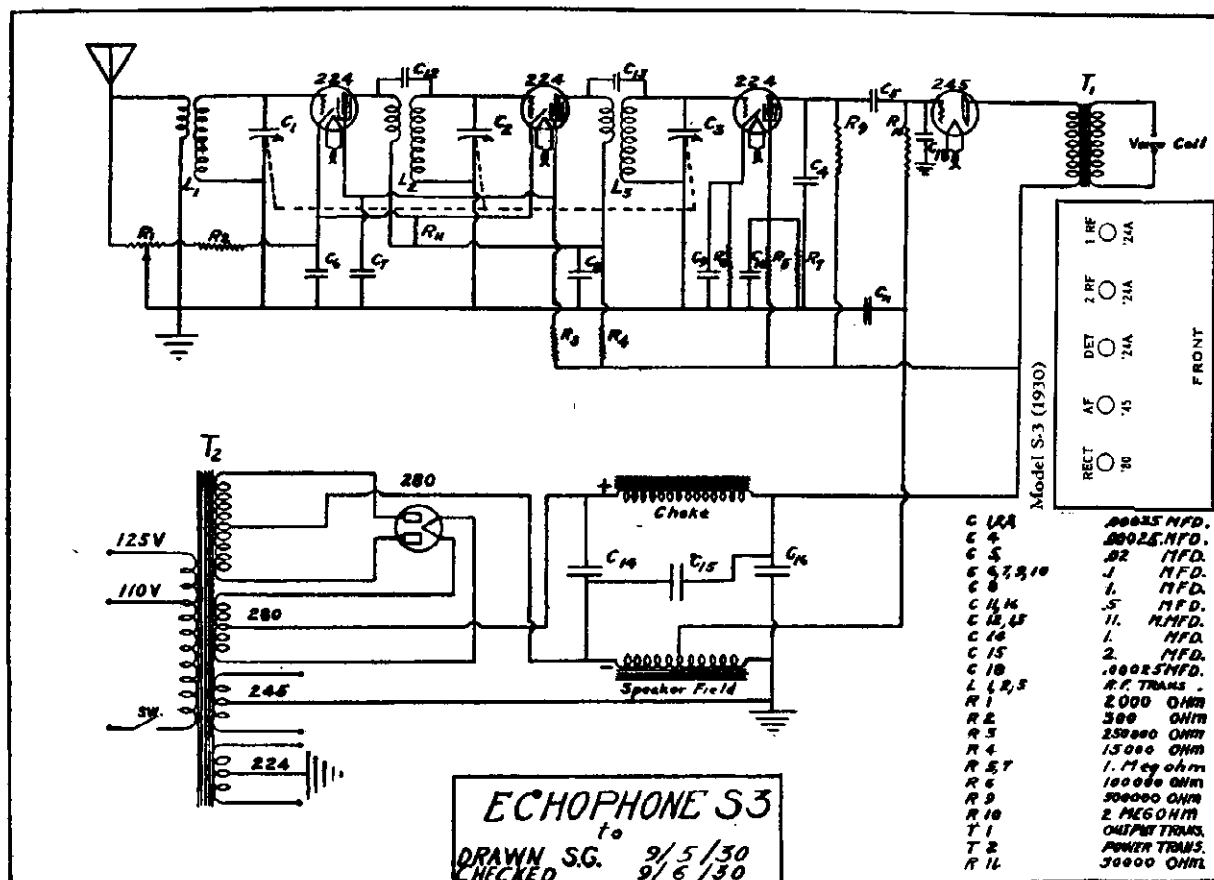
Task No.	Task Name	Project No.	Task No.		SCHEDULE				REMARKS			
			DATE STARTED	DATE FINISHED	1 DAYS	2 WEEKS	3 MONTHS	4 YEARS	1 DAYS	2 WEEKS	3 MONTHS	4 YEARS
1	107	204	2.10	2.10	5	5	5	5	5	5	5	5
2	107	204	2.10	2.10	5	5	5	5	5	5	5	5
3	107	204	2.10	2.10	5	5	5	5	5	5	5	5
4	107	204	2.10	2.10	5	5	5	5	5	5	5	5
5	107	204	2.10	2.10	5	5	5	5	5	5	5	5
6	107	204	2.10	2.10	5	5	5	5	5	5	5	5
7	107	204	2.10	2.10	5	5	5	5	5	5	5	5
8	107	204	2.10	2.10	5	5	5	5	5	5	5	5
9	107	204	2.10	2.10	5	5	5	5	5	5	5	5
10	107	204	2.10	2.10	5	5	5	5	5	5	5	5
11	107	204	2.10	2.10	5	5	5	5	5	5	5	5
12	107	204	2.10	2.10	5	5	5	5	5	5	5	5
13	107	204	2.10	2.10	5	5	5	5	5	5	5	5
14	107	204	2.10	2.10	5	5	5	5	5	5	5	5
15	107	204	2.10	2.10	5	5	5	5	5	5	5	5
16	107	204	2.10	2.10	5	5	5	5	5	5	5	5
17	107	204	2.10	2.10	5	5	5	5	5	5	5	5
18	107	204	2.10	2.10	5	5	5	5	5	5	5	5
19	107	204	2.10	2.10	5	5	5	5	5	5	5	5
20	107	204	2.10	2.10	5	5	5	5	5	5	5	5
21	107	204	2.10	2.10	5	5	5	5	5	5	5	5
22	107	204	2.10	2.10	5	5	5	5	5	5	5	5
23	107	204	2.10	2.10	5	5	5	5	5	5	5	5
24	107	204	2.10	2.10	5	5	5	5	5	5	5	5
25	107	204	2.10	2.10	5	5	5	5	5	5	5	5
26	107	204	2.10	2.10	5	5	5	5	5	5	5	5
27	107	204	2.10	2.10	5	5	5	5	5	5	5	5
28	107	204	2.10	2.10	5	5	5	5	5	5	5	5
29	107	204	2.10	2.10	5	5	5	5	5	5	5	5
30	107	204	2.10	2.10	5	5	5	5	5	5	5	5
31	107	204	2.10	2.10	5	5	5	5	5	5	5	5
32	107	204	2.10	2.10	5	5	5	5	5	5	5	5
33	107	204	2.10	2.10	5	5	5	5	5	5	5	5
34	107	204	2.10	2.10	5	5	5	5	5	5	5	5
35	107	204	2.10	2.10	5	5	5	5	5	5	5	5
36	107	204	2.10	2.10	5	5	5	5				

(AC)



## ECHOPHONE RADIO MFG. CO.

MODEL S-3  
MODEL S-3 (Rev.)  
Schematic



**MODEL S-3**

Voltage

Notes

**ECHOPHONE RADIO MFG. CO.**

**Model S-3**

**1. Plate of 245 Tube**

#5 to ground

Normal	250 volts
Low	235 volts
High	275 volts

**2. R. F. Plate**

#25 to ground

Normal	140 volts
Low	120 volts
High	160 volts

**3. R. F. Screen**

#14 to ground

Normal	60 volts
Low	50 volts
High	75 volts

**4. Detector Plate**

#13 to ground

Normal	80 volts
Low	70 volts
High	90 volts

**5. Detector Screen**

#9 to ground

Normal	25 volts
Low	20 volts
High	30 volts

**6. Detector Cathode**

#10 to ground

5 to 10 volts

**7. R. F. Cathode**

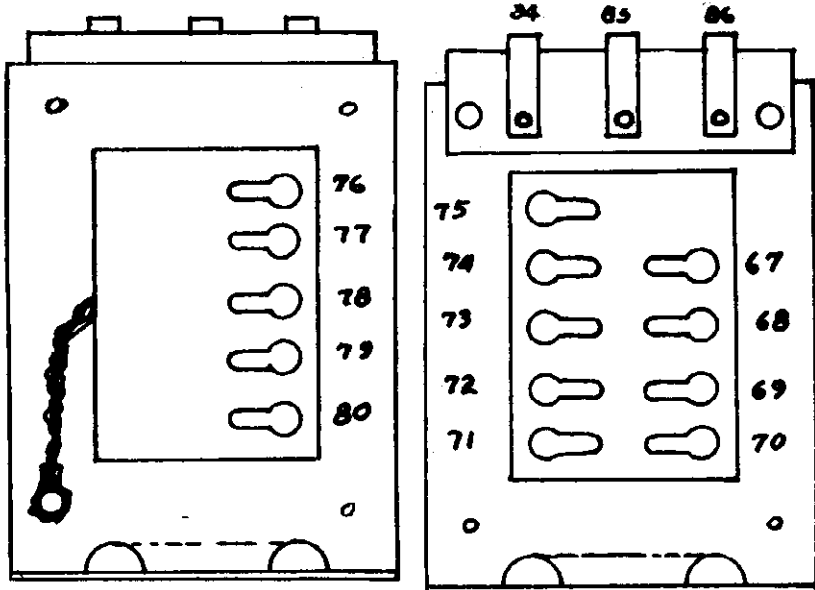
#15 to ground

1.5 to 2.5 volts

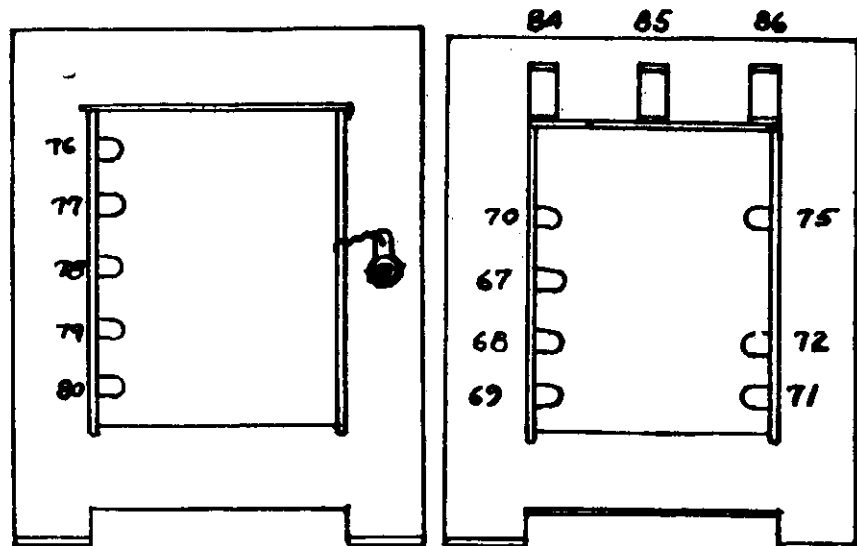
**8. 245 Bias**

#48 to ground

Normal	50 volts
Low	40 volts
High	55 volts



**TYPE HA**



**TYPE JE**

Drawing showing corresponding terminal positions on two types of power transformers used on S-3.

**Power Transformer**

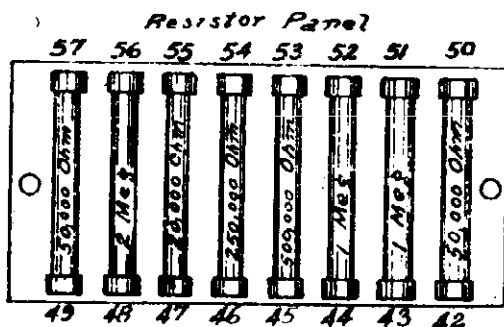
75-73 Pri. winding 74 low voltage tap.

72-71 Fil. winding 280 tube 70 center tap.

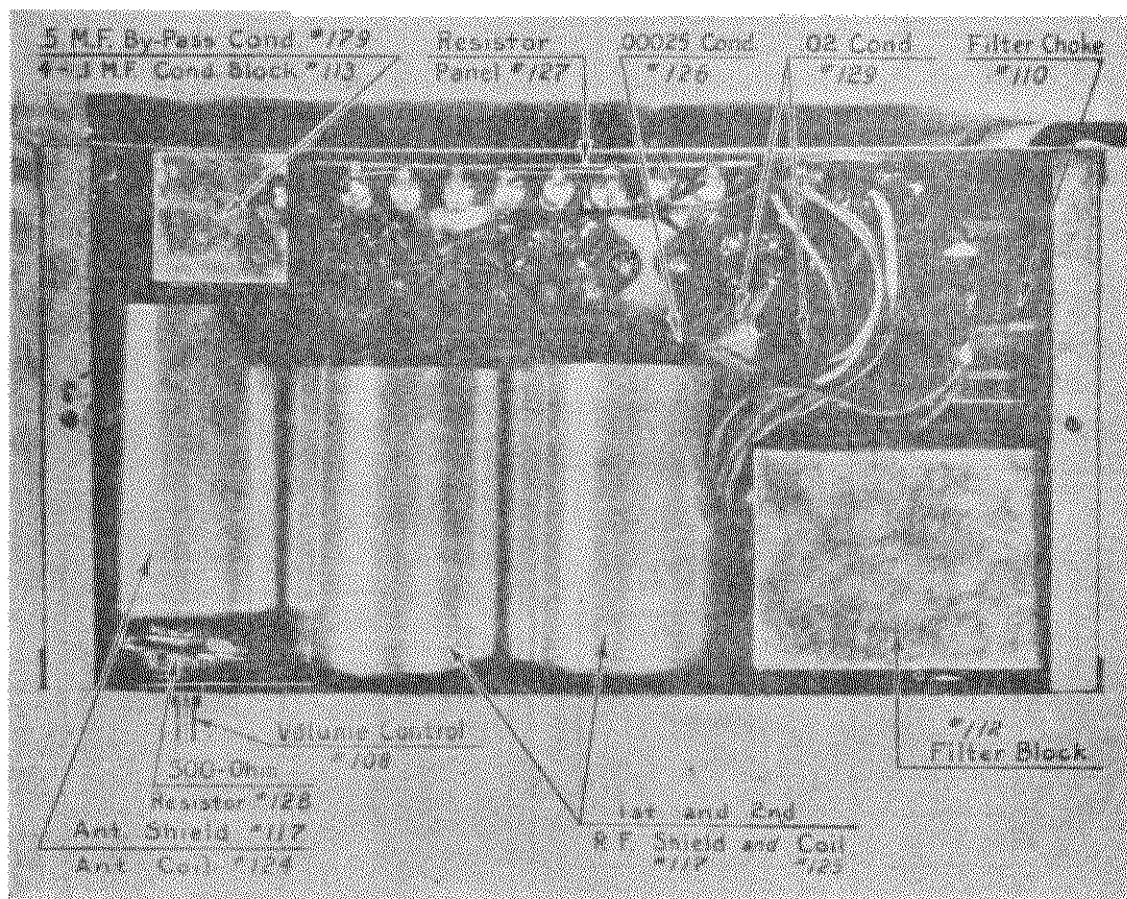
69-67 High voltage Sec. 68 center tap.

76-80 Fil. winding for 224 tubes.

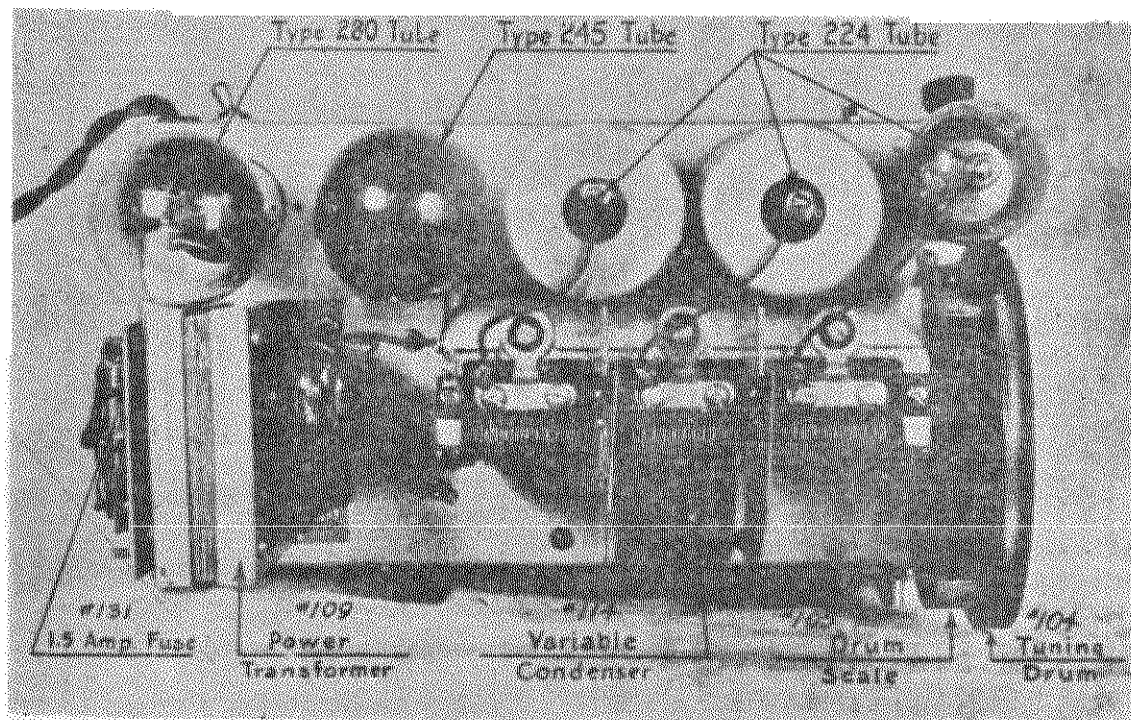
77-79 Fil. winding for 245 tube 78 center tap.



## ECHOPHONE RADIO MFG. CO.

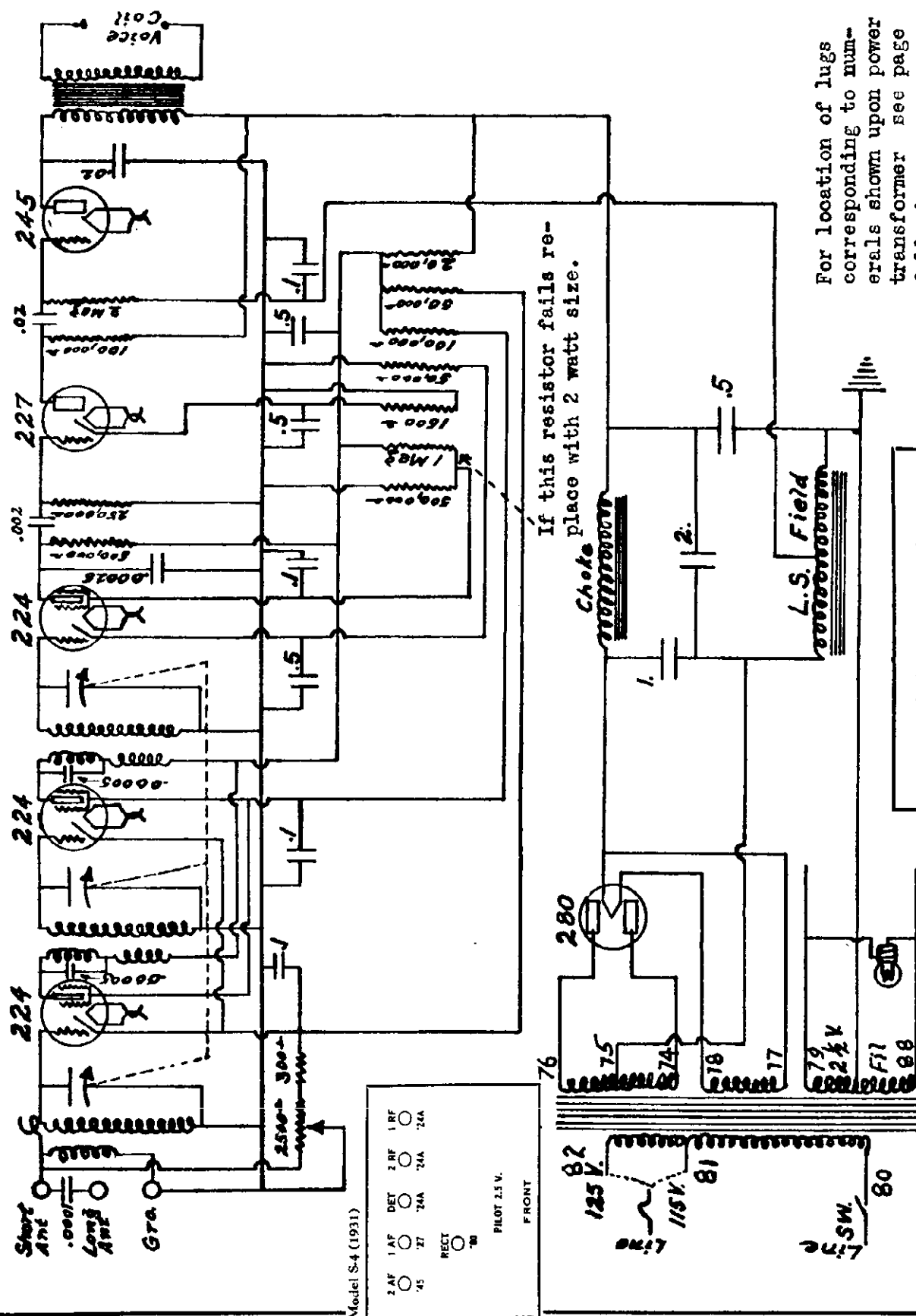
MODEL S-3  
Chassis

ECHOPHONE — Model S-3



ECHOPHONE — Model S-3

For location of lugs  
corresponding to num-  
erals shown upon power  
transformer see page  
following



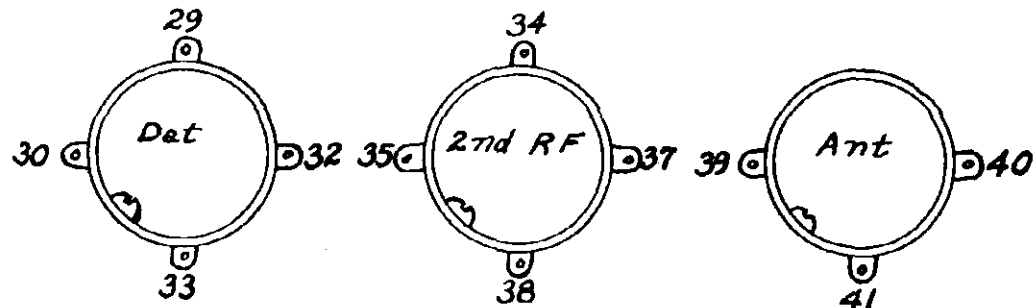
## CIRCUIT—Model S-4

## ECHOPHONE RADIO MFG. CO.

MODEL S-4  
Voltage  
Data

The Antenna coil has a bobbin primary and also a single close-coupled incomplete turn around grid end of secondary coil. The R. F. coils have a bobbin primary and also a close-coupled primary. A .00005 condenser is connected across the bobbin primary.

In some of the later S-4 models bank-wound "Litz" wire coils are used. These R. F. coils have a small honey-comb primary coil mounted in the ground end of the secondary coil and a capacitor across the plate and grid terminals of the coil. The "Litz" antenna coil has a tight-coupled primary wound over the ground end of the secondary coil.



Continuity Chart For  
Litz Wire Bank Wound Coils  
Echophone  
Model - S4

## 1. Plate of 245 Tube.

#5 to ground

Normal—225 volts  
Low— 200 volts  
High— 250 volts

## 2. R. F. Plate.

#25 to ground

Normal—110 volts  
Low— 100 volts  
High— 120 volts

## 3. R. F. Screen.

#14 to ground

Normal—50 volts  
Low— 40 volts  
High— 60 volts

## 4. Detector Plate.

#13 to ground

Normal—30 volts  
Low— 25 volts  
High— 50 volts

## 5. Detector Screen.

#9 to ground

Normal—20 volts  
Low— 15 volts  
High— 30 volts

## 6. Detector Cathode

#10 to ground

3 to 6 volts

## 7. R. F. Cathode.

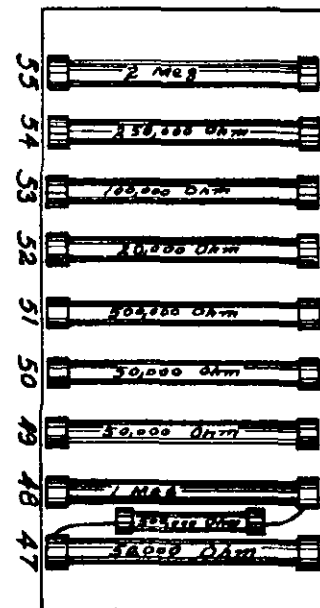
#15 to ground

1.5 to 2.5 volts

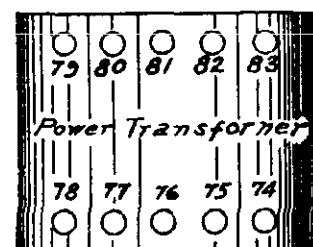
## 8. 245 Bias.

#48 to ground

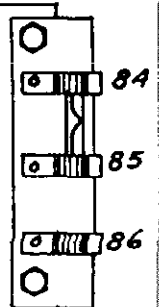
Normal—50 volts  
Low— 40 volts  
High— 55 volts



Resistor Panel

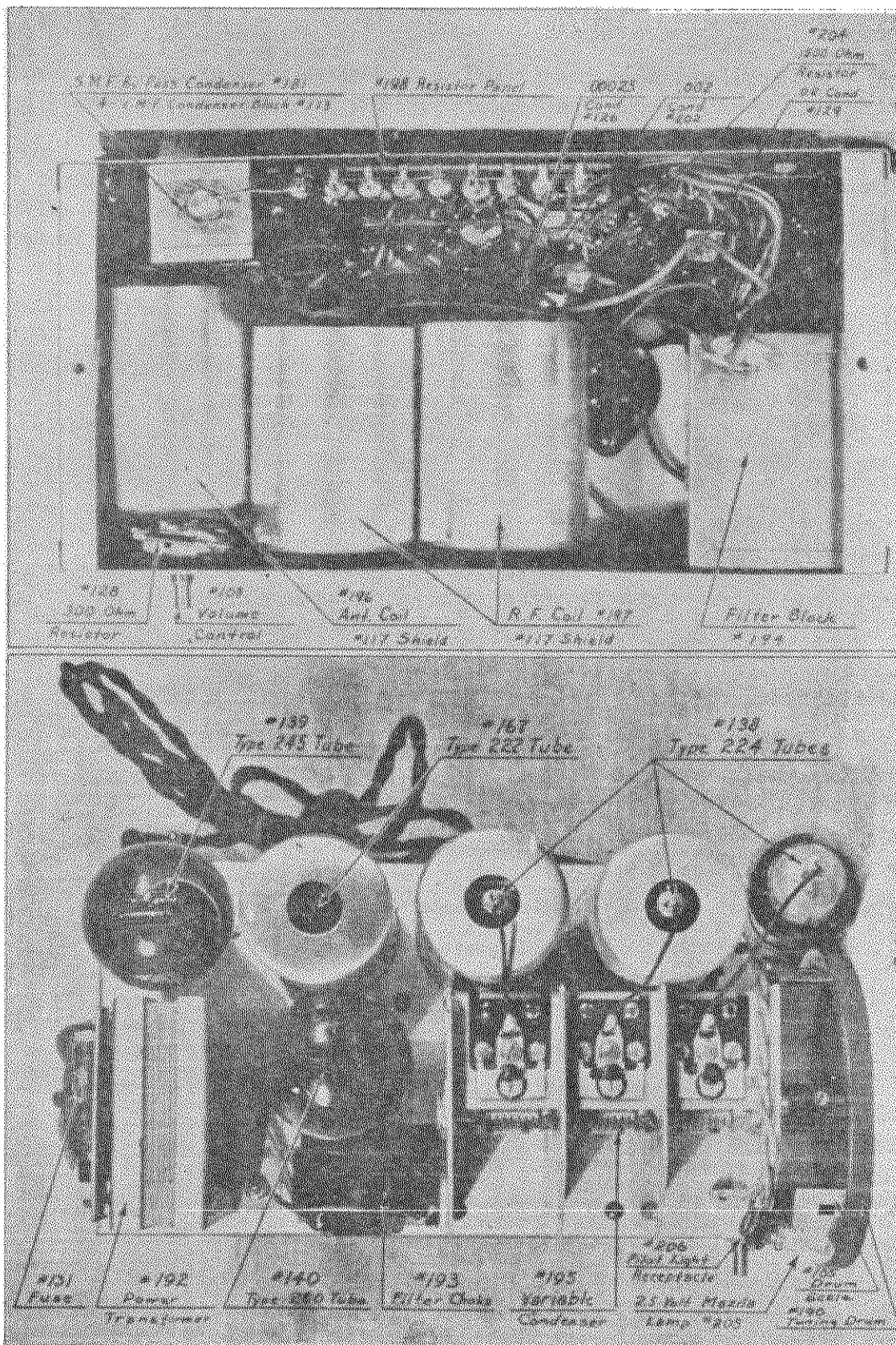


Power Transformer



MODEL S-4  
Chassis

ECHOPHONE RADIO MFG. CO.



ECHOPHONE Model S-4

**ECHOPHONE RADIO MFG. CO.**

MODEL S-5  
(Dynatron)  
Schematic

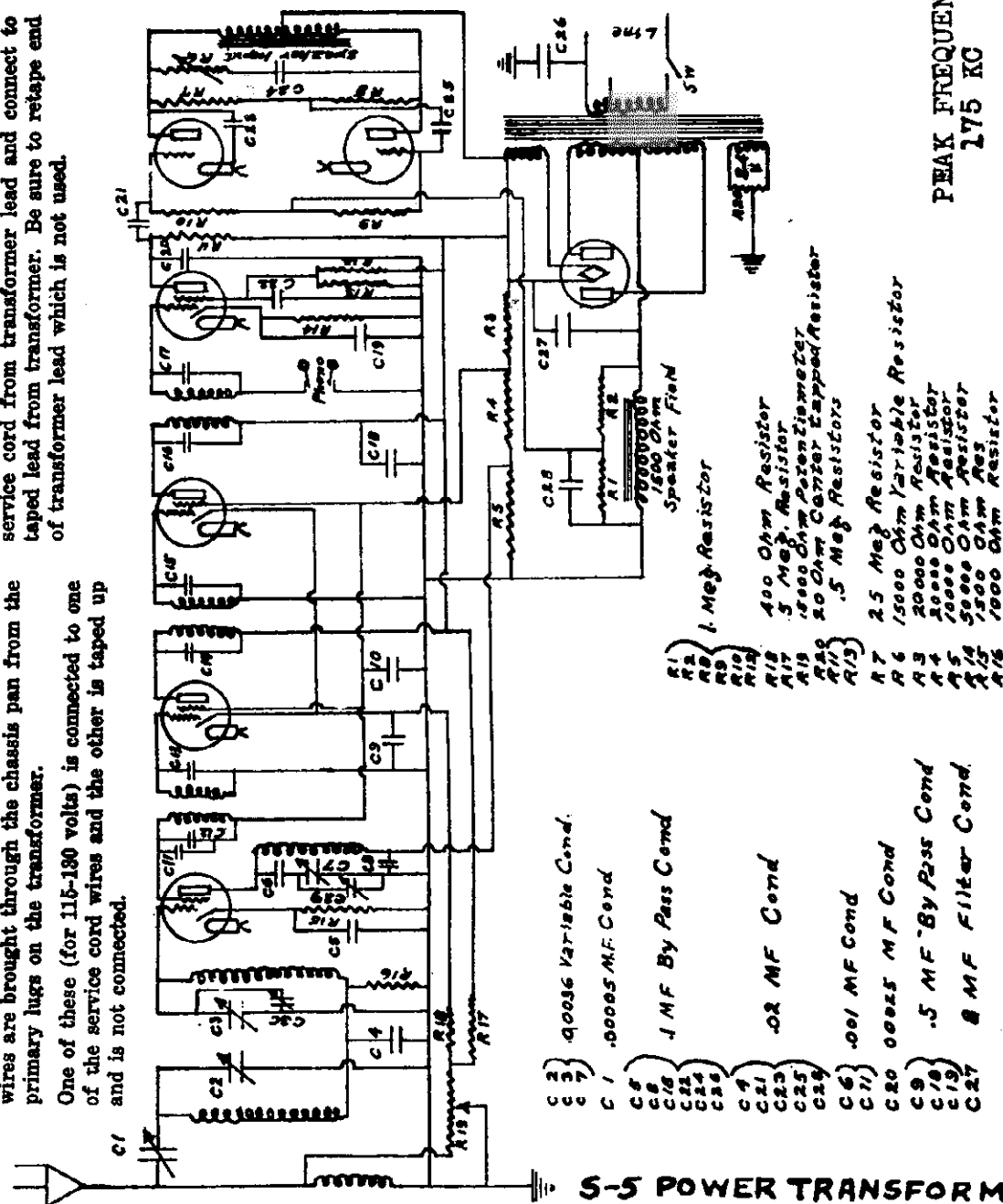
PEAK FREQUENCY  
275 KC

# ECHOPHONE SUPERHETERODYNE S-5—CIRCUIT DIAGRAM

To change set for 100 to 115 volts, disconnect the service cord from transformer lead and connect to retaped lead from transformer. Be sure to retape end of transformer lead which is not used.

On all sets having serial numbers above 100050, two wires are brought through the chassis pan from the primary lugs on the transformer.

One of these (for 115-130 volts) is connected to one of the service cord wires and the other is taped up and is not connected.

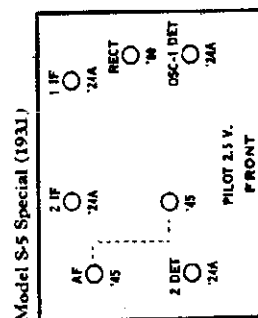


2.5 VOLT FILAMENT

FOR 100T0115 VOLT LINE  
REMOVE WIRE FROM  
THIS TERMINAL  
AND CONNECT TO  
THIS TERMINAL  
BEGINNING PRIMARY

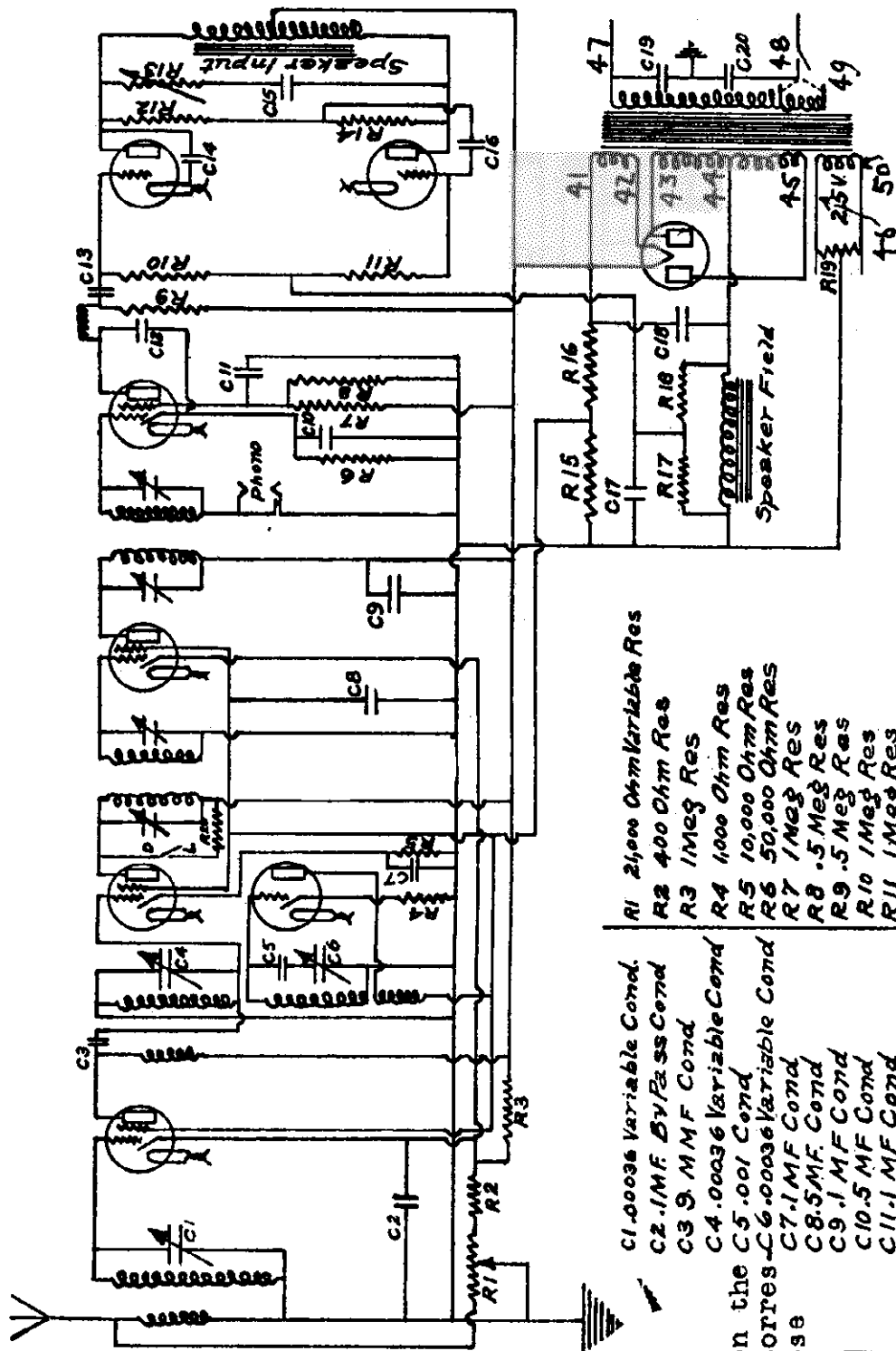
2.5 VOLT FILAMENT

HIGH VOLTAGE  
C.T. HIGH VOLTAGE  
HIGH VOLTAGE  
280 FILAMENT  
280 FILAMENT



MODEL S-5 (Rev.)  
Schematic

ECHOPHONE RADIO MFG. CO.



Echophone Superheterodyne

Model S-5

CIRCUIT DIAGRAM

Res  
Center Tapped  
Res

C1 0.00036 Variable Cond.

C2 .1MF Bypass Cond

C3 9. MF Cond

C4 0.00036 Variable Cond

C5 .001 Cond

C6 0.00036 Variable Cond

C7 .1MF Cond

C8 .5MF Cond

C9 .1MF Cond

C10 .5MF Cond

C11 .1MF Cond

C12 .00025 Cond

C13 .02 MF Cond

C14 .02 MF Cond

C15 .1 MF Cond

C16 .02 MF Cond

C17 .02 MF Cond

C18 .8 MF Cond

C19 .05 MF Cond

C20 .05 MF Cond

R1 21,000 Ohm Variable Res

R2 400 Ohm Res

R3 1Meg Res

R4 1000 Ohm Res

R5 10,000 Ohm Res

R6 50,000 Ohm Res

R7 1Meg Res

R8 .5Meg Res

R9 .5Meg Res

R10 1Meg Res

R11 1Meg Res

R12 .25 Meg Res

R13 15,000 Ohm Variable Res

R14 1Meg Res

R15 50,000 Ohm Res

R16 20,000 Ohm Res

R17 1Meg Res

R18 1Meg Res

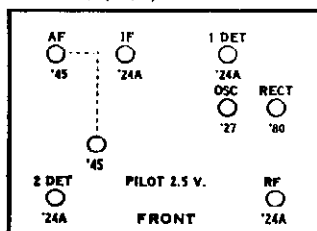
R19 20 Ohm Center Tapped Res

R20 5,000 Ohm Res.

The numbers on the  
Pwr. Trans. corres-  
pond with those  
shown below.

04	460
042	470
043	480
044	490
045	500
Power Transformer	

Model S-5 (1931)

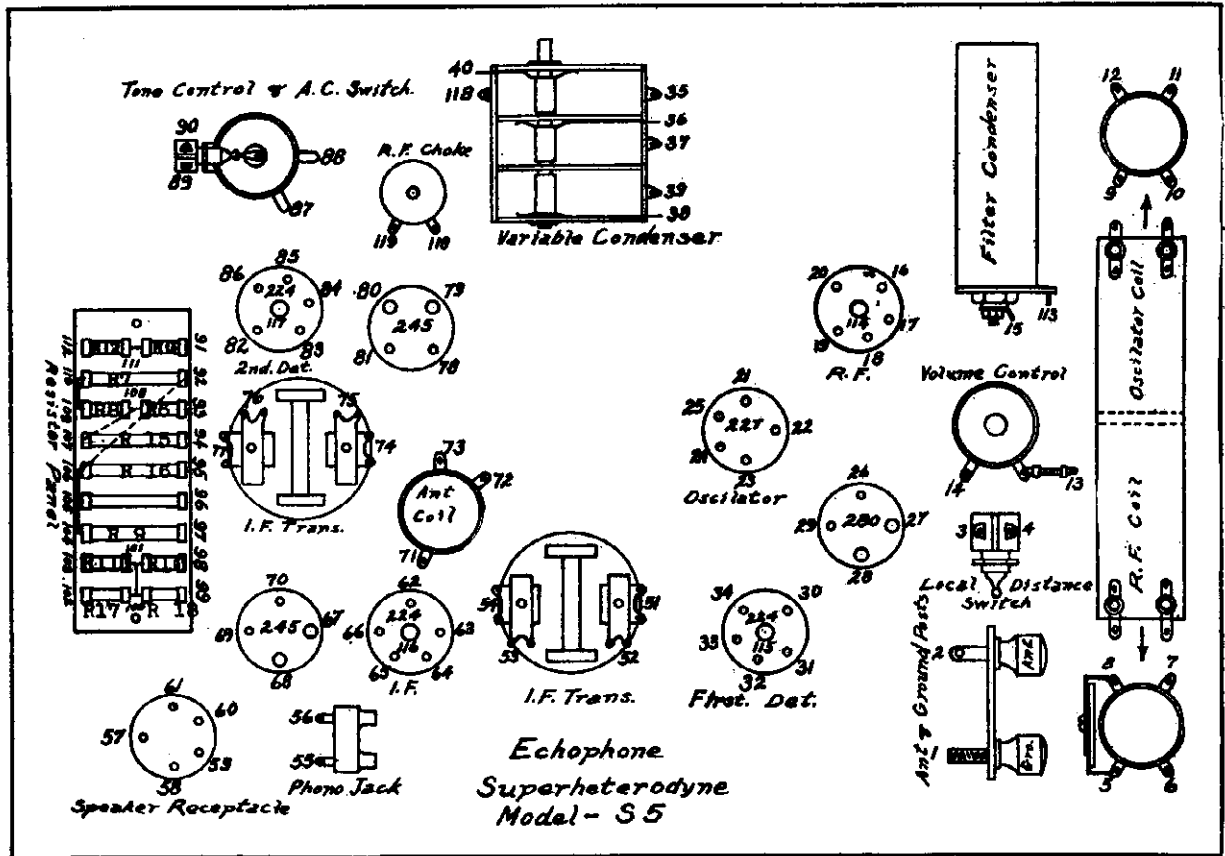


PEAK  
FREQUENCY

175 KC

## ECHOPHONE RADIO MFG. CO.

MODEL S-5  
Voltage  
Data



## Model S-5

## VOLTAGE TESTS

Voltages given are tested on 250-volt scale of 1000 ohms, per volt meter.

All voltage tests were made with volume control on full and tone control in off position, no signal in receiver, line voltage 115 volts with A. C. line connected to terminals 47-49 on power transformer.

Speaker must be connected to receiver.

R. F. Plate #19 to ground	Low ..... 210 volts	First Detector Screen #80 to ground	Low ..... 75 volts
Normal ..... 220 volts	Normal ..... 80 volts	High ..... 90 volts	
High ..... 230 volts			
R. F. Screen #20 to ground	Low ..... 75 volts	First Detector Cathode #81 to ground	5 to 7 volts
Normal ..... 80 volts	Normal ..... 80 volts		
High ..... 90 volts	High ..... 90 volts	Second Detector Plate #83 to ground	60 to 80 volts
R. F. Cathode #16 to ground	1.5 to 3 volts		
Oscillator Plate #21 to ground	Low ..... 75 volts	Second Detector Screen #82 to ground	25 volts
Low ..... 80 volts	Normal ..... 80 volts	Low ..... 25 volts	
Normal ..... 90 volts	High ..... 90 volts	Normal ..... 30 volts	
High ..... 90 volts		High ..... 35 volts	
Oscillator Cathode #23 to ground	4 to 6 volts	Second Detector Cathode #86 to ground	5 to 7 volts
L. F. Plate #66 to ground	Low ..... 210 volts	245 Plates #61-58 to ground	
Low ..... 220 volts	Normal ..... 220 volts	Low ..... 210 volts	
High ..... 230 volts	High ..... 230 volts	Normal ..... 220 volts	
L. F. Screen #62 to ground	Low ..... 75 volts	High ..... 230 volts	
Low ..... 80 volts	Normal ..... 80 volts	245 Bias #101 to ground	Neg. 20 to 40 volts
High ..... 90 volts	High ..... 90 volts	Speaker Field Voltage Drop #60-59	
L. F. Cathode #63 to ground	1.5 to 3 volts	Low ..... 90 volts	
First Detector Plate #84 to ground	Low ..... 210 volts	Normal ..... 100 volts	
Low ..... 220 volts	Normal ..... 220 volts	High ..... 110 volts	
High ..... 230 volts	High ..... 230 volts	280 Filament #27-28	4.5 to 5.2 volts
		Filaments for All 2.5 Volt Tubes #87-88	2.2 to 2.5 volts

**COMPONENT VALUES TABLE**

Part No.	Value	Part No.	Value	Part No.	Value	Part No.	Value
R1	250K	R6	100K	R11	100K	R16	100K
R2	250K	R7	100K	R12	100K	R17	100K
R3	250K	R8	100K	R13	100K		
R4	250K	R9	100K	R14	100K		
R5	250K	R10	100K	R15	100K		
C1	0.001	C6	0.001	C11	0.001	C16	0.001
C2	0.001	C7	0.001	C12	0.001	C17	0.001
C3	0.001	C8	0.001	C13	0.001		
C4	0.001	C9	0.001	C14	0.001		
C5	0.001	C10	0.001	C15	0.001		
L1	100	L6	100	L11	100		
L2	100	L7	100	L12	100		
L3	100	L8	100	L13	100		
L4	100	L9	100	L14	100		
L5	100	L10	100	L15	100		



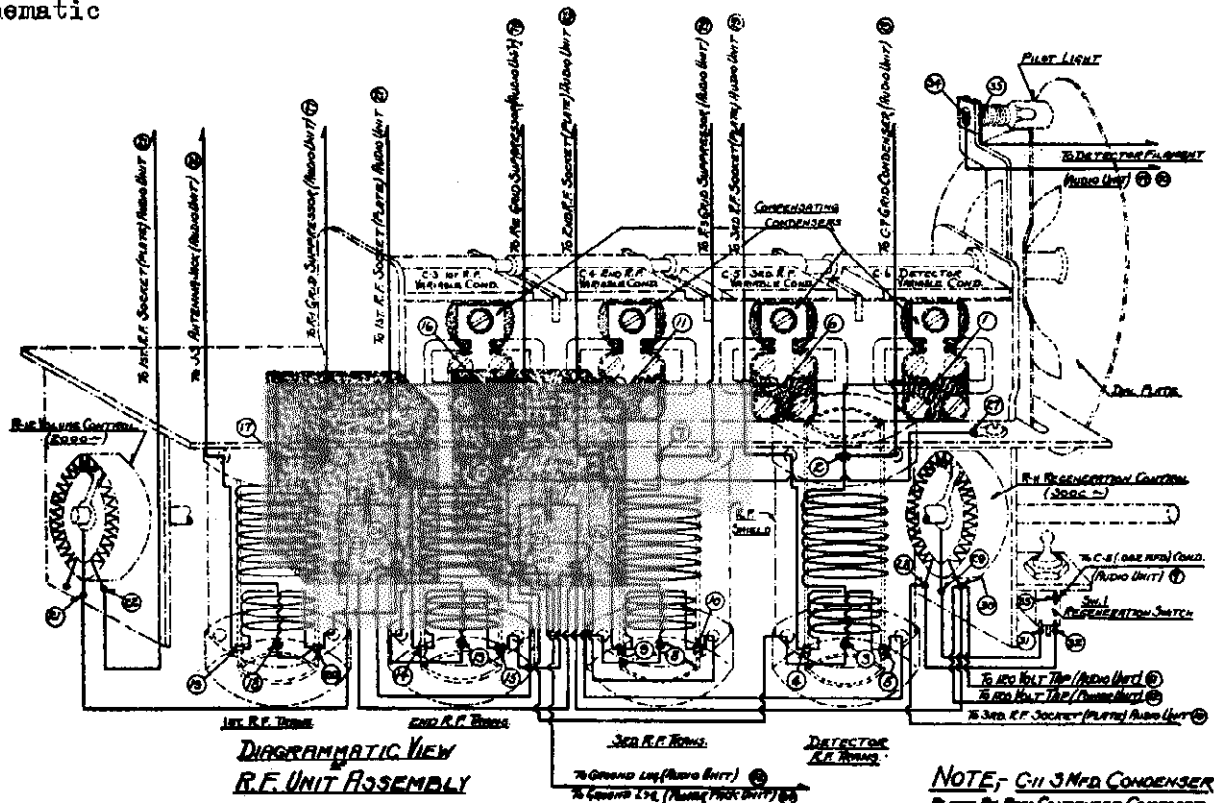
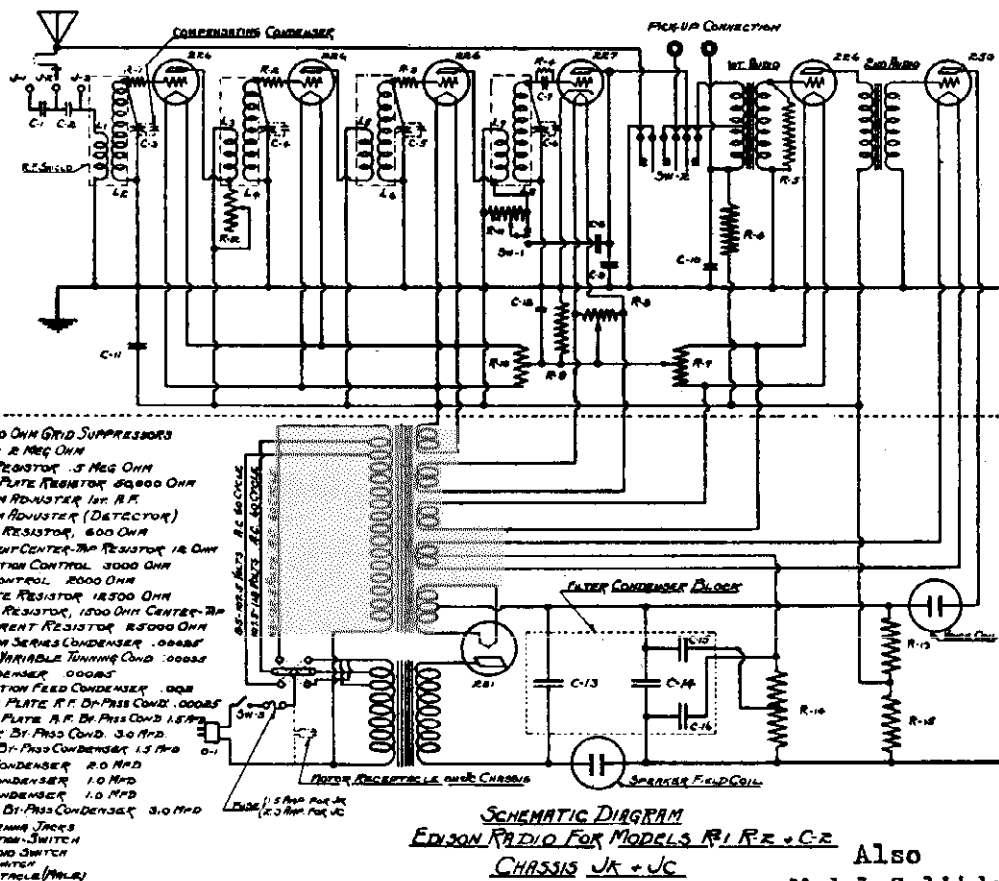




MODELS R1,R2,C2(60 cyc.)

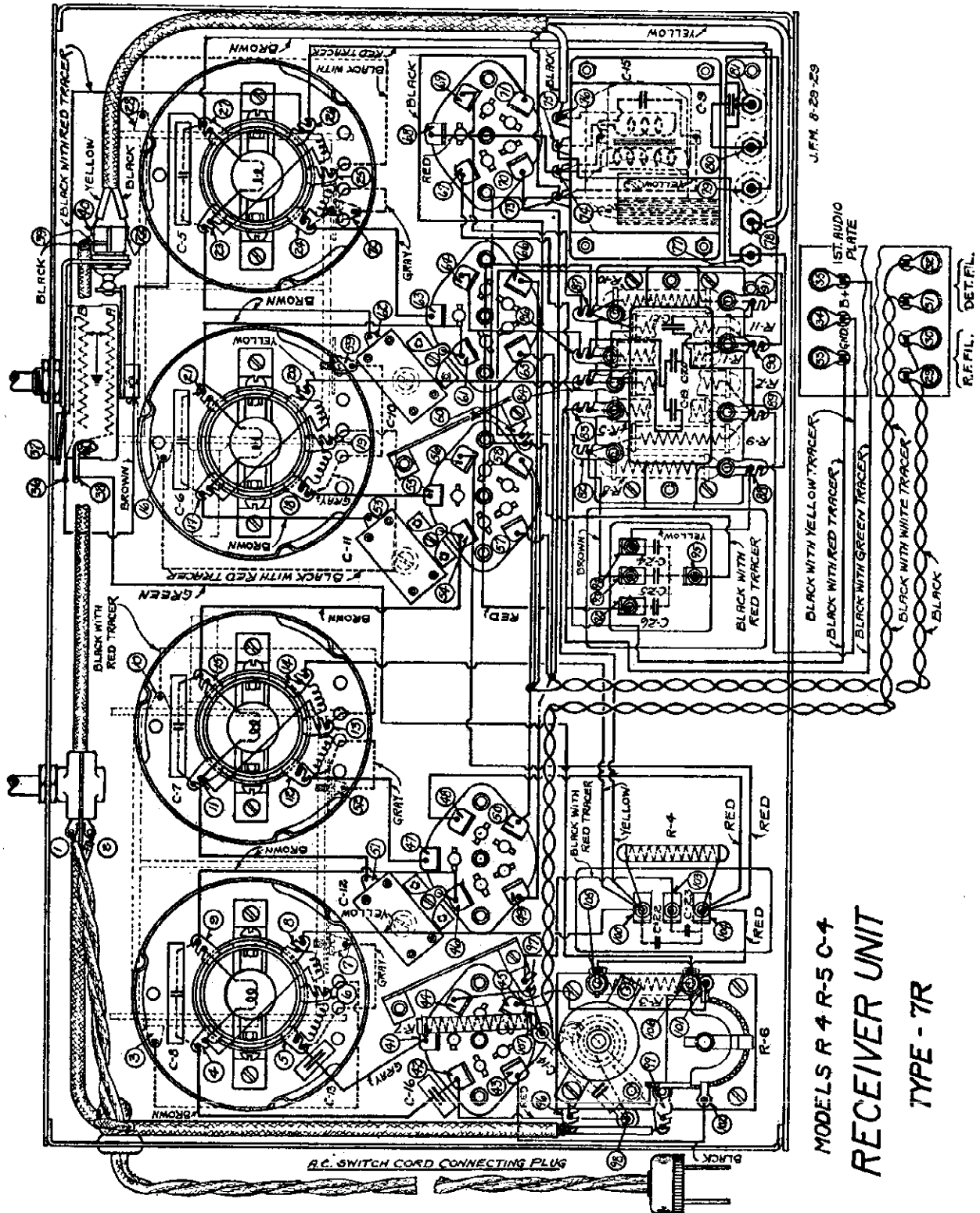
Diagram  
Schematic

THOMAS A. EDISON, INC.

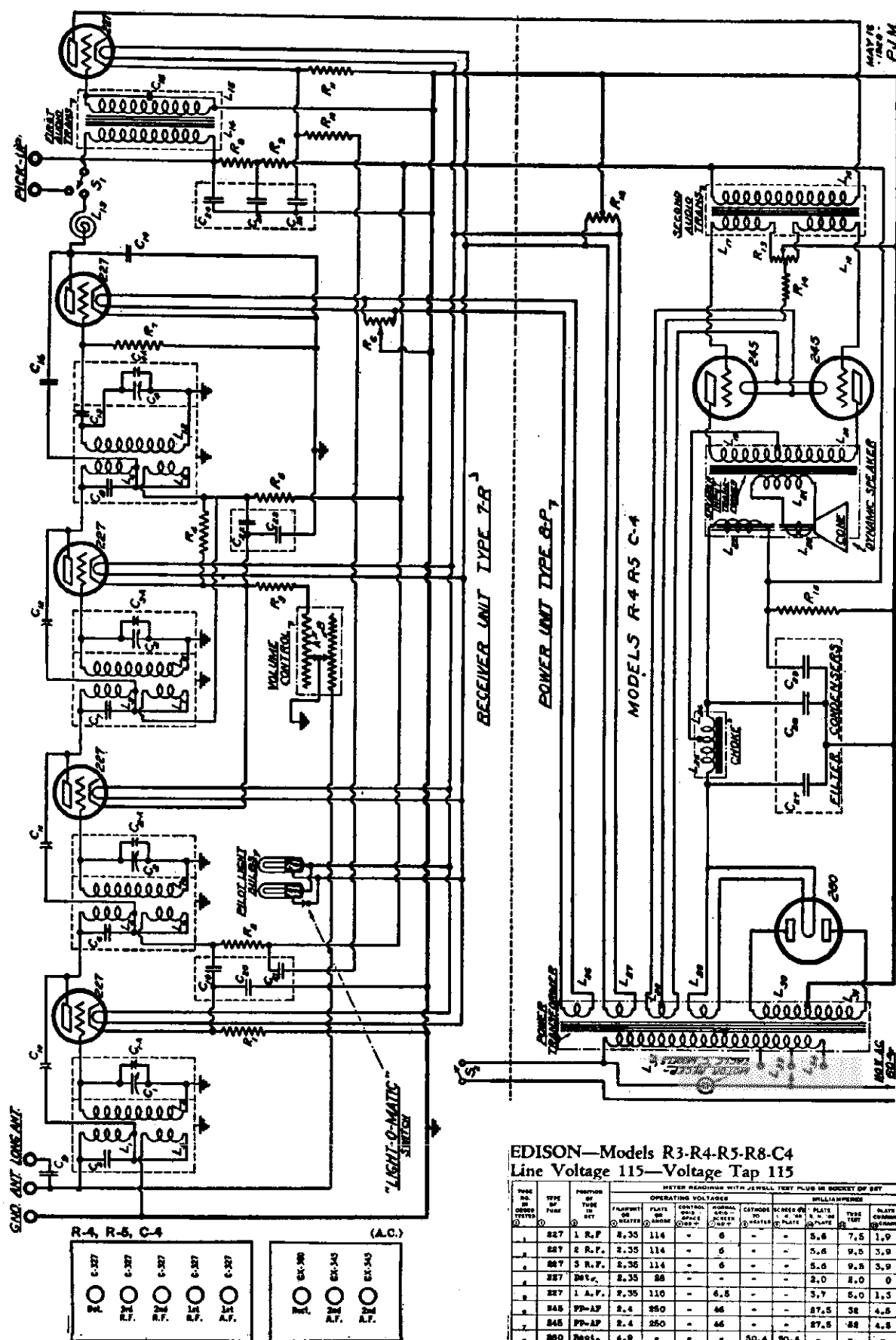
MODELS R1 R2 + C2  
CHASSIS JK + JCSCHEMATIC DIAGRAM  
EDISON RADIO FOR MODELS R1 R2 + C2  
CHASSIS JK + JCAlso  
Model Splitdorf M-5

MODELS R4,R5,C4  
Receiver Chassis Wiring

THOMAS A. EDISON, INC.



MODELS R4 R5 C4  
RECEIVER UNIT  
TYPE - 7R



**EDISON—Models R3-R4-R5-R8-C4**  
Line Voltage 115—Voltage Tap 115

MODELS R4, R5, C4  
Parts List

## THOMAS A. EDISON, INC.

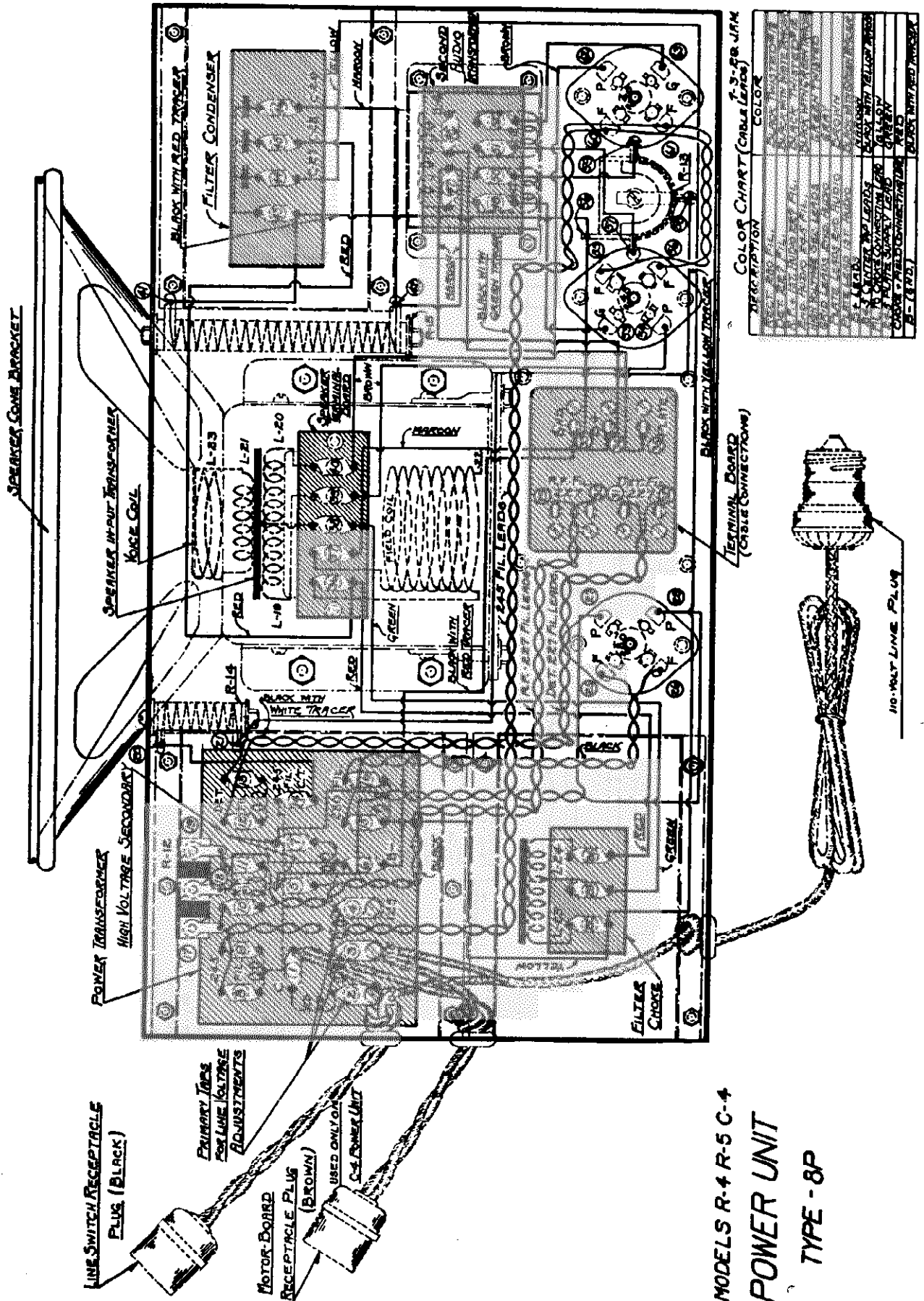
## IDENTIFICATION OF PARTS (Continued)

NO.	NAME AND FUNCTION	ELECTRICAL VALUE
R-10	Hum balance resistor (1st a. f.)	6,000 ohm resistance, 1 watt.
R-11	Bias resistor, 1st a. f. stage.	2,000 ohm resistance, 1 watt.
R-12	R. f. and a. f. heater center tapped resistor.	20 ohm fixed center-tapped resistance.
R-13	Push-pull balancing resistor.	200 ohm center-tapped potentiometer.
R-14	Bias resistor, 2nd a. f. stage.	780 ohm, 5 watt resistance.
R-15	Power supply loss current resistor.	10,000 ohm, 5 watt resistance.
L-1	Long wave primary, 1st r. f. transformer.	Each a 500 microhenry coil.
L-2	Long wave primary, 2nd r. f. transformer.	
L-3	Long wave primary, 3rd r. f. transformer.	
L-4	Long wave primary, detector input transformer.	
L-5	Short wave primary, 1st r. f. transformer.	Each a 7 1/2 turn coil.
L-6	Short wave primary, 2nd r. f. transformer.	
L-7	Short wave primary, 3rd r. f. transformer.	
L-8	Short wave primary, detector input transformer.	
L-9	Secondary, 1st r. f. transformer.	Each a 245 microhenry coil, (measured in shield).
L-10	Secondary, 2nd r. f. transformer.	
L-11	Secondary, 3rd r. f. transformer.	
L-12	Secondary, detector input transformer.	
L-13	Detector plate r. f. choke.	50 to 65 millihenry choke.
L-14	Primary, 1st a. f. transformer.	4:1 ratio a. f. transformer.
L-15	Secondary, 1st a. f. transformer.	
L-16	Primary, 2nd a. f. transformer.	
L-17	Secondary, 2nd a. f. transformer.	
L-18	Secondary, 2nd a. f. transformer.	Speaker input transformer, mounted in speaker frame, utilizing center tapped primary.
L-19	Half primary, speaker input transformer.	
L-20	Half primary, speaker input transformer.	
L-21	Secondary, speaker input transformer.	
L-22	Field coil, dynamic speaker.	4,500 ohm field coil.
L-23	Voice coil, dynamic speaker.	20 henry, 375 ohm choke.
L-24	Inside third of filter choke.	
L-25	Outside two-thirds of filter choke.	
L-26	Detector heater secondary winding.	
L-27	R. f. and a. f. heater secondary winding.	Power transformer.
L-28	and a. f. fil. secondary winding.	
L-29	Rectifier fil. secondary winding.	
L-30	Half high voltage secondary winding.	
L-31	Half high voltage secondary winding.	
L-32	Low line voltage primary winding.	
L-33	Additional section of primary winding for medium voltage.	
L-34	Additional section of primary winding for high line voltage.	
S-1	Radio-phon. switch.	S. P. D. T. toggle switch, operated by volume control shaft.
S-2	Line switch.	S. P. S. T. toggle switch.
	Light-O-Matic Switch.	Located in dial mechanism, operating Light-O-Matic pilot light.
	Motor Receptacle (Brown).	This plug provides 110 volts A. C. for operation of phonograph motor in radio phonograph combination model.
	Volume Control	{ A—Wire wound, 5,000 ohms. B—Graphite, 10,000 ohms.

IDENTIFICATION OF PARTS  
TO ACCOMPANY PLATE No. 1-A  
"LIGHT-O-MATIC" MODELS R-4, R-5 and C-4

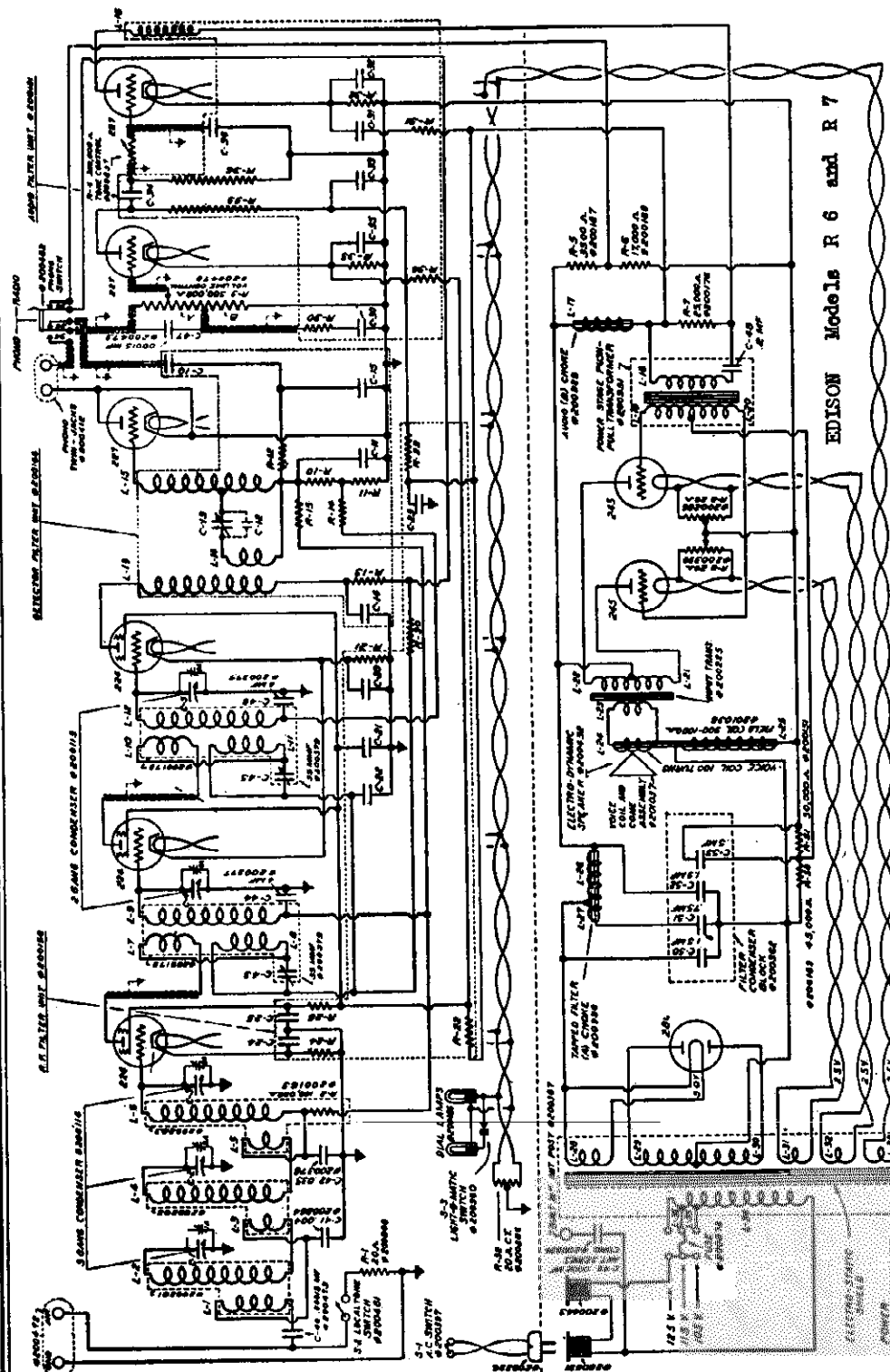
NO.	NAME AND FUNCTION	ELECTRICAL VALUE
C-1	Tuning condenser, 1st r. f. stage.	{ 2-gang variable condenser, maximum capacity. each section 355 mmfd.
C-2	Tuning condenser, 2nd r. f. stage.	
C-3	Tuning condenser, 3rd r. f. stage.	{ 2-gang variable condenser, maximum capacity. each section 355 mmfd.
C-4	Tuning condenser, detector stage.	
C-5	Each a fixed condenser tuning the long wave primary circuit of the associated transformer to approximately 450 kilocycles.	{ Each a .00025 mfd. fixed moulded mica condenser.
C-6		
C-7		{ Each an adjustable condenser, 40 to 80 mmfd.
C-8		
C-9	Long antenna series condenser.	.000125 mfd. fixed moulded mica condenser.
C-10	Neutralizing condensers, 1st, 2nd and 3rd r. f. stages, respectively.	{ Each an adjustable condenser, 40 to 80 mmfd.
C-11		
C-12		{ .0001 mfd. fixed moulded mica condenser.
C-13	Detector grid condenser.	
C-14	Detector plate condenser.	.001 mfd. fixed moulded mica condenser.
C-15	High frequency cut-off condenser.	.00045 mfd. fixed moulded mica condenser.
C-16	Detector Neutralizing Condenser	.000125 Mfd. fixed condenser.
C-19	Plate by-pass condenser, 1st r. f. stage.	{ .1 mfd. 300v. paper condenser. .1 mfd. 300v. paper condenser. .16 mfd. 300v. paper condenser. (C-19, 20 and 21 in same can.)
C-20	Bias by-pass condenser, 1st r. f. stage.	
C-21	Hum balance condenser (1st a. f.)	
C-22	Plate by-pass condenser, 2nd and 3rd r. f.	
C-23	Bias by-pass condenser, 2nd and 3rd r. f.	{ .1 mfd. 300v. paper condenser. .1 mfd. 150v. paper condenser. (C-22 and 23 in same can.)
C-24	A. f. by-pass condenser, detector plate.	
C-25	Filter condenser, detector plate supply.	
C-26	Bias by-pass condenser, 1st a. f. stage.	
C-27	1st filter condenser.	{ 2 mfd. 600v. paper condenser. 2 mfd. 600v. paper condenser. 1 mfd. 300v. paper condenser. (C-27, 28 and 29 in same can.)
C-28	2nd filter condenser.	
C-29	3rd filter condenser.	
C-30		
C-31A	Tuning compensator, 1st r. f.	{ Each an adjustable air and mica dielectric condenser mounted on side of variable condenser section which it shunts.
C-32A	Tuning compensator, 2nd r. f.	
C-33A	Tuning compensator, 3rd r. f.	
C-34A	Tuning compensator, detector.	
R-1	Bias resistor, 1st r. f. stage.	1,000 ohm resistance, 1 watt.
R-2	Isolating resistor, 1st r. f.	1,000 ohm resistance, 1 watt.
R-3	Minimum bias resistor, 2nd and 3rd r. f.	400 ohm resistance, 1 watt.
R-4	Blender resistor.	40,000 ohm resistance, 1 watt.
R-5	Isolating resistor, 2nd and 3rd r. f.	400 ohm resistance, 1 watt.
R-6	Detector heater hum adjuster.	20 ohm potentiometer.
R-7	Detector grid leak.	1.5 megohm resistance, 1 watt.
R-8	2nd section detector filter resistor.	25,000 ohm resistance, 1 watt.
R-9	1st section detector filter resistor.	25,000 ohm resistance, 1 watt.

# THOMAS A. EDISON, INC. MODELS R4, R5, C4 Power Unit Chassis Wiring

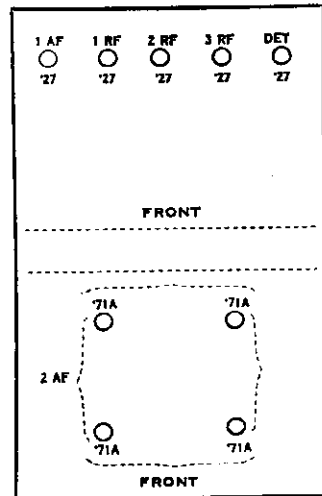
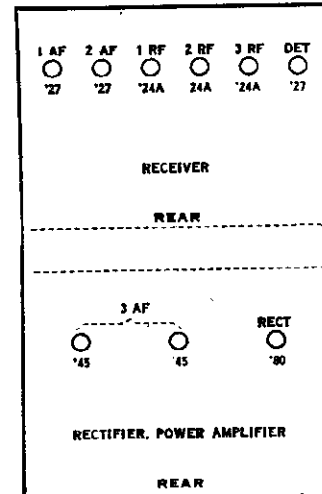


MODELS R6,R7  
Schematic

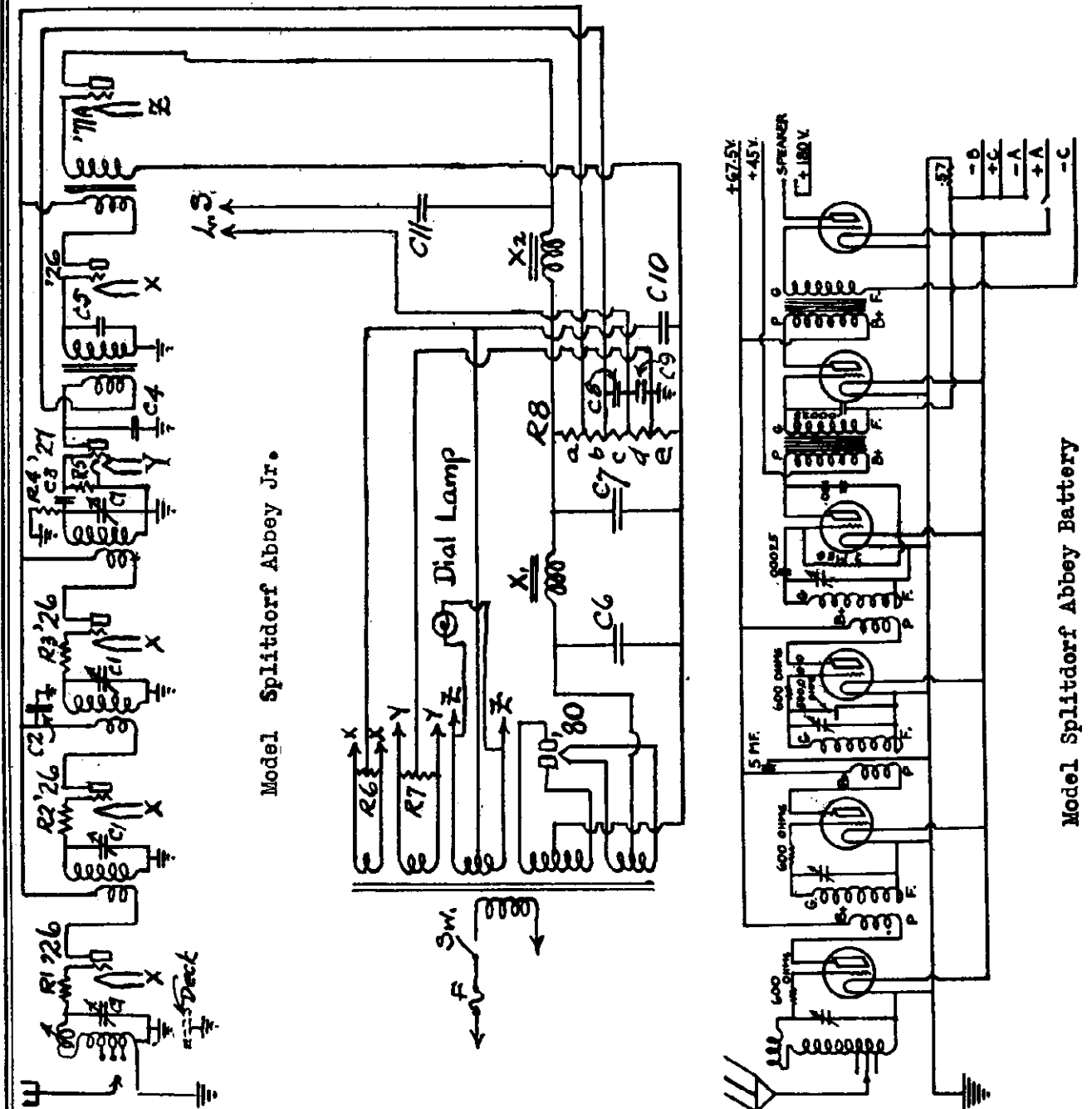
THOMAS A. EDISON, INC.



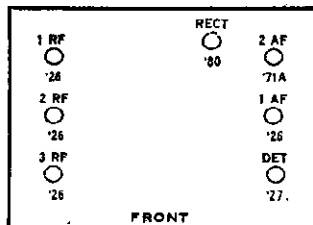
### Models Edisons R4, R5 (DC)

**Models Edison® R6, R7**[illegible]

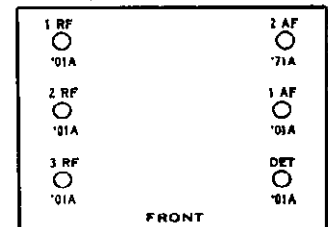
THOMAS A. EDISON, INC. MODEL Splitdorf Abbey Jr.  
MODEL Splitdorf Abbey Bat  
Schematic



Model Splitdorf Abbey Jr.

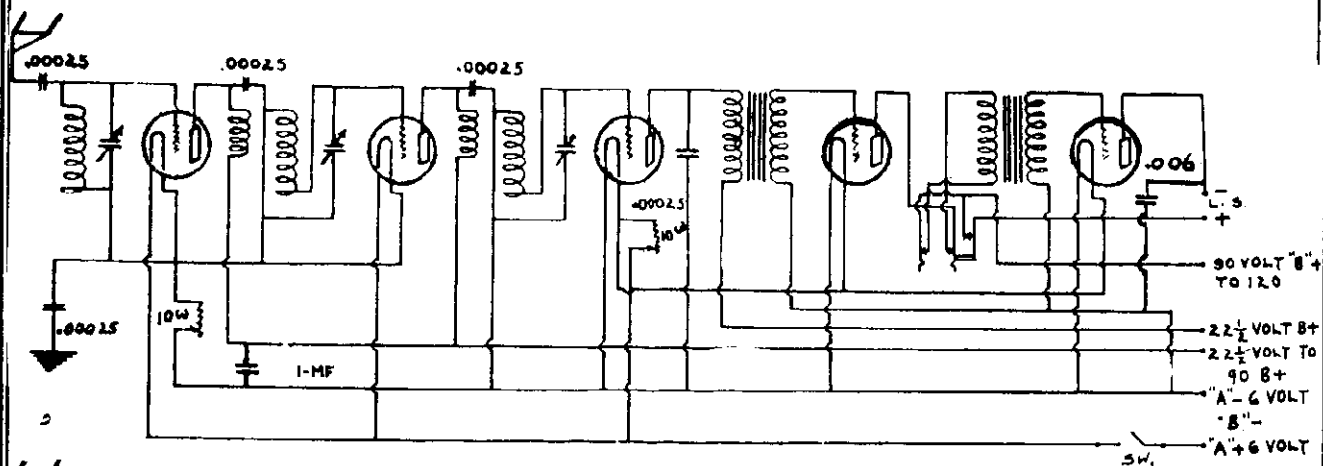


Model Splitdorf Abbey—Battery

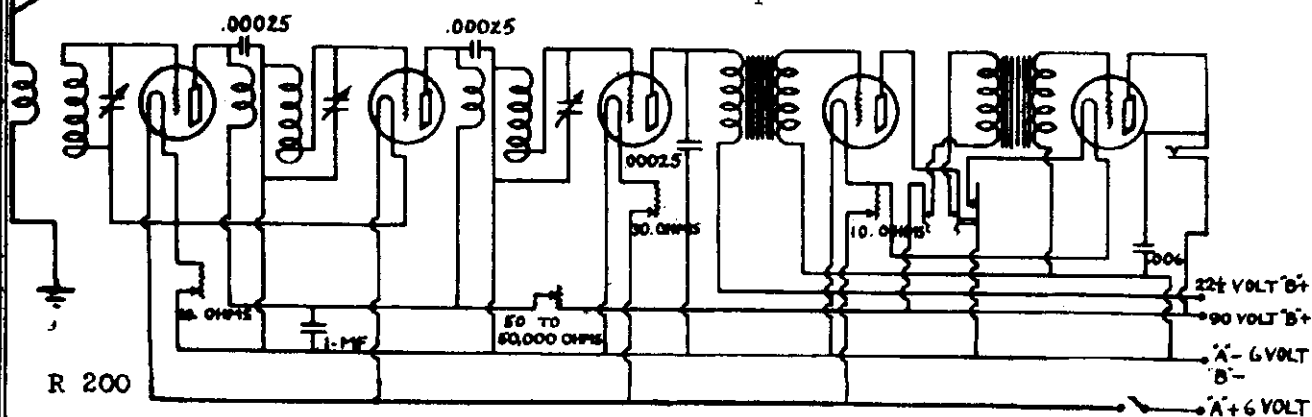


MODEL Splitdorf R-100  
MODEL Splitdorf R-200  
MODEL Splitdorf RV-695  
Schematic

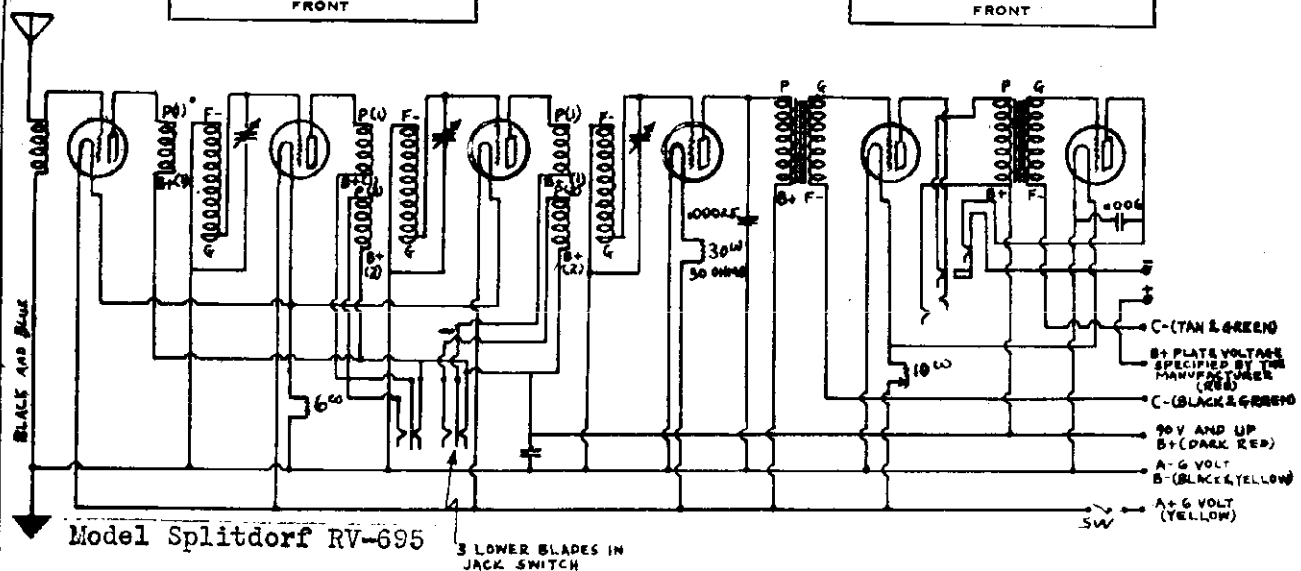
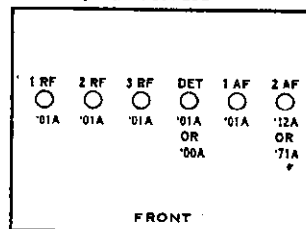
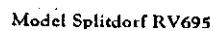
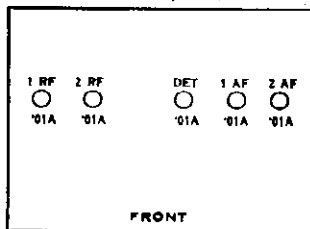
THOMAS A. EDISON, INC.



Model Splitdorf R-100

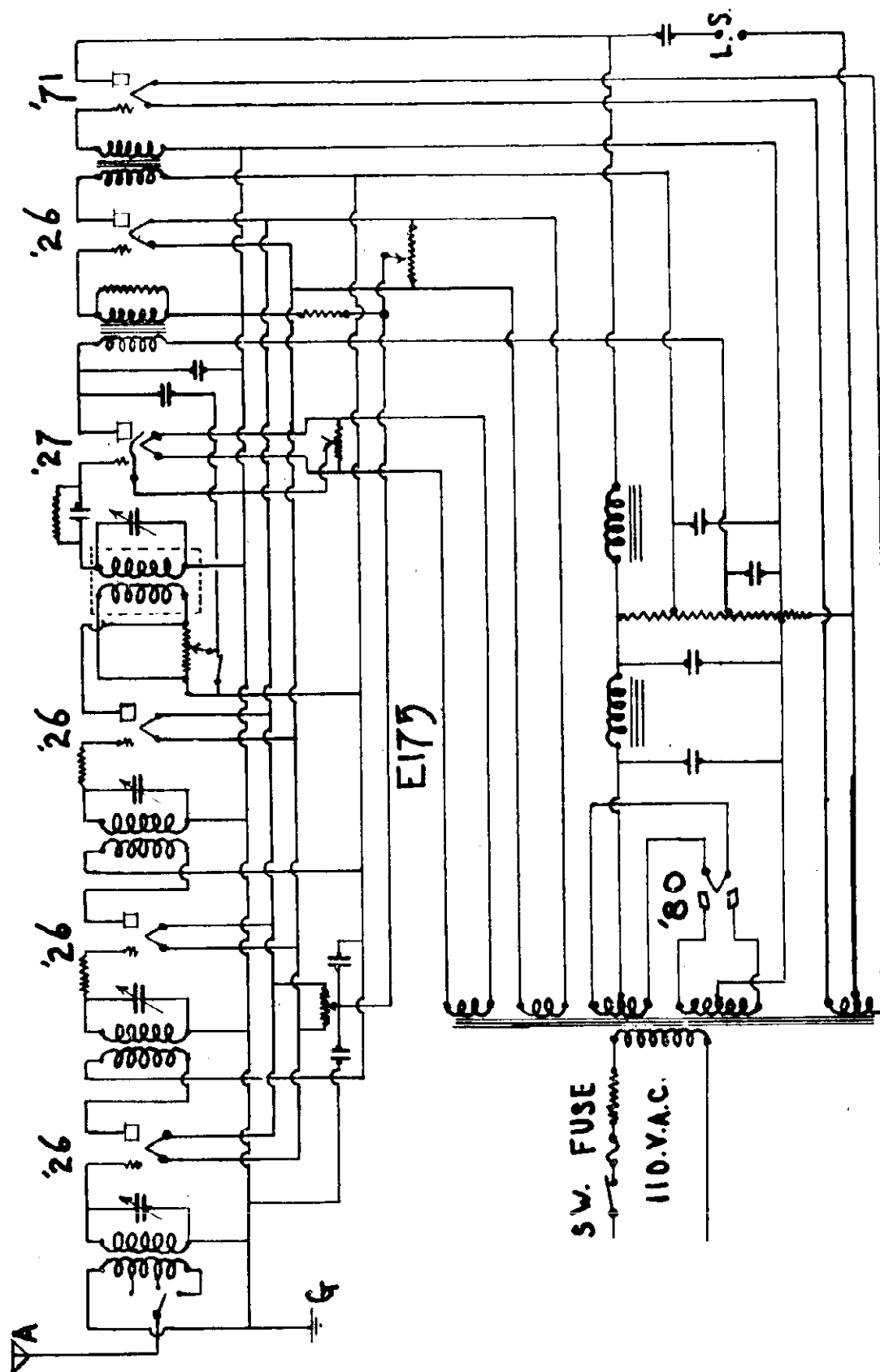


Model Splitdorf R-200



MODEL Splitdorf E-175  
Schematic

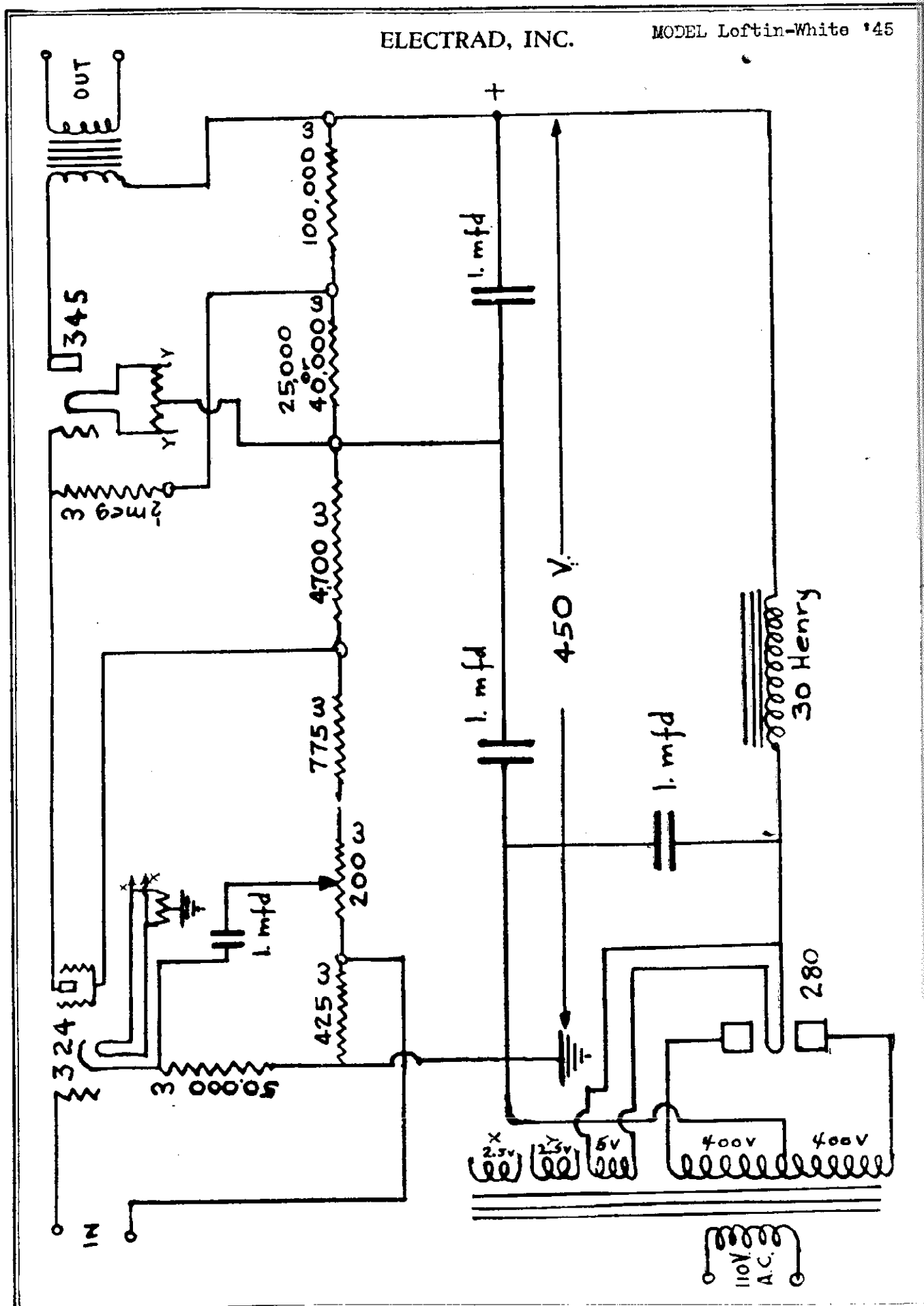
THOMAS A. EDISON, INC.



Model Splitdorf E-175

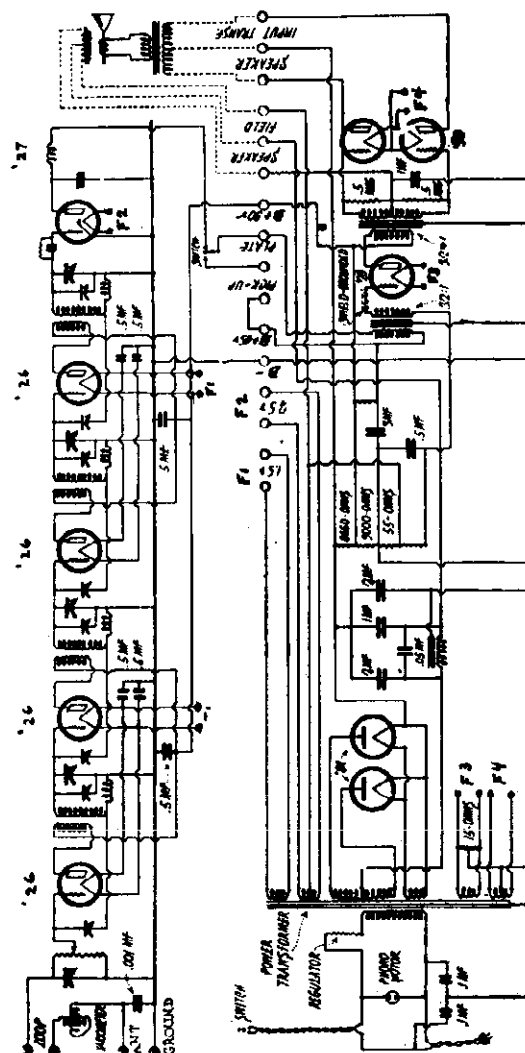
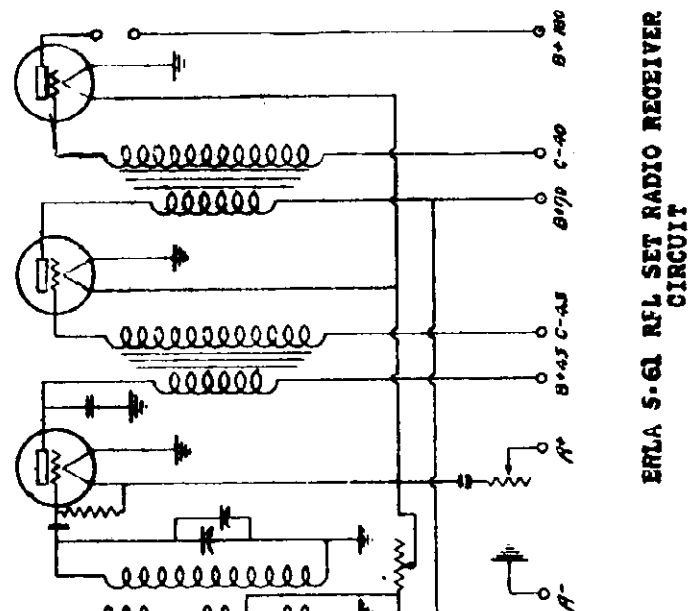
ELECTRAD, INC.

MODEL Loftin-White '45

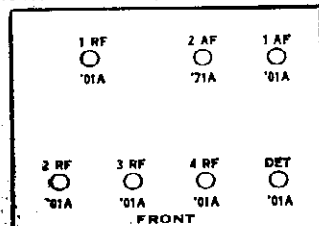


**ELECTRICAL  
RESEARCH LABORATORIES, Inc.**

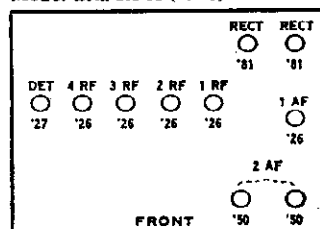
MODEL S-61  
MODEL R-1  
Schematic



Model Erla S61 (1927)

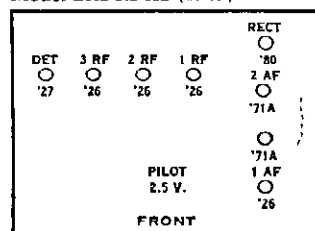
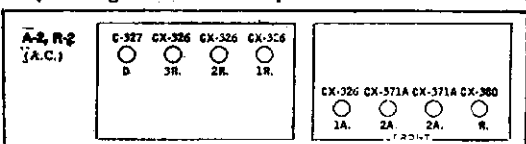
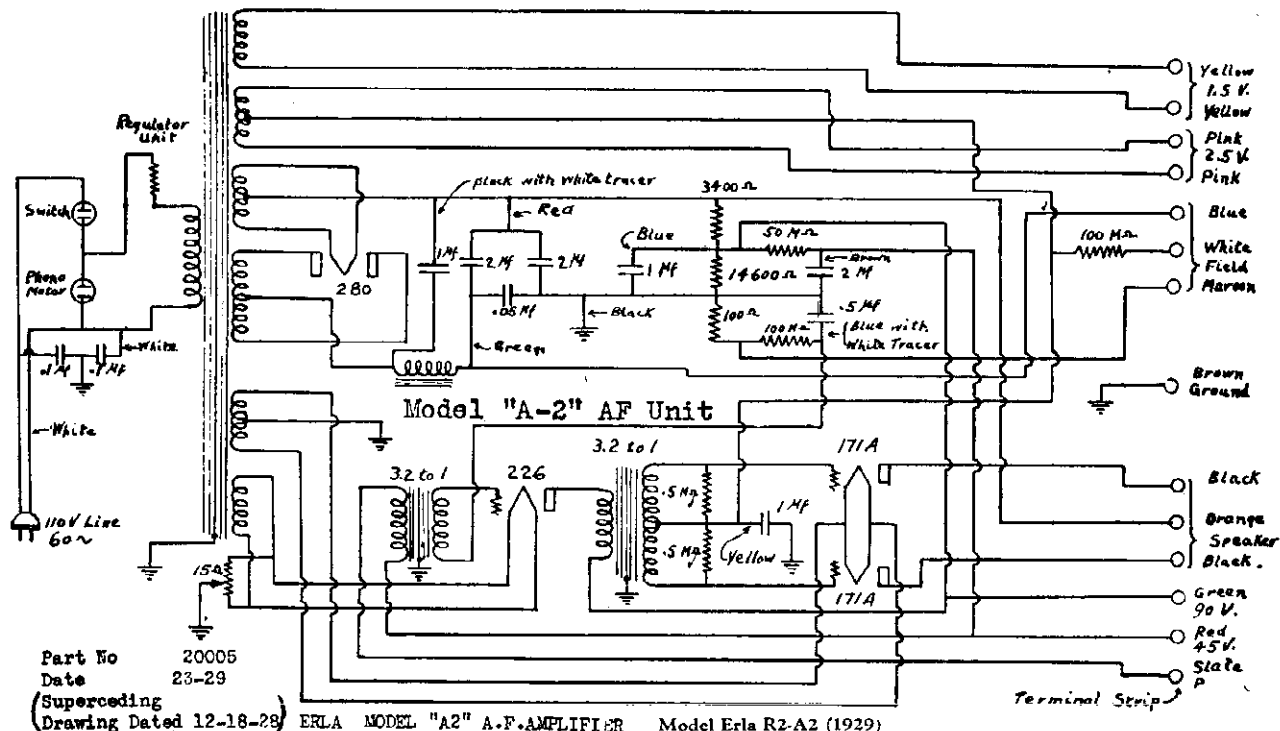
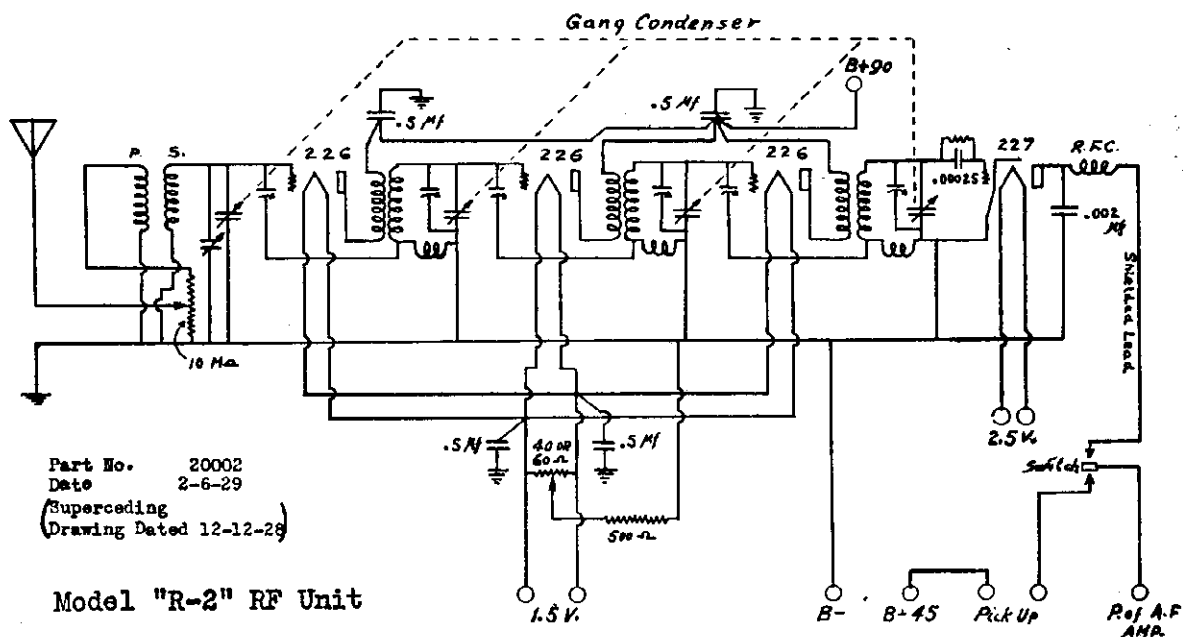


Model Erla R1-A (1928)



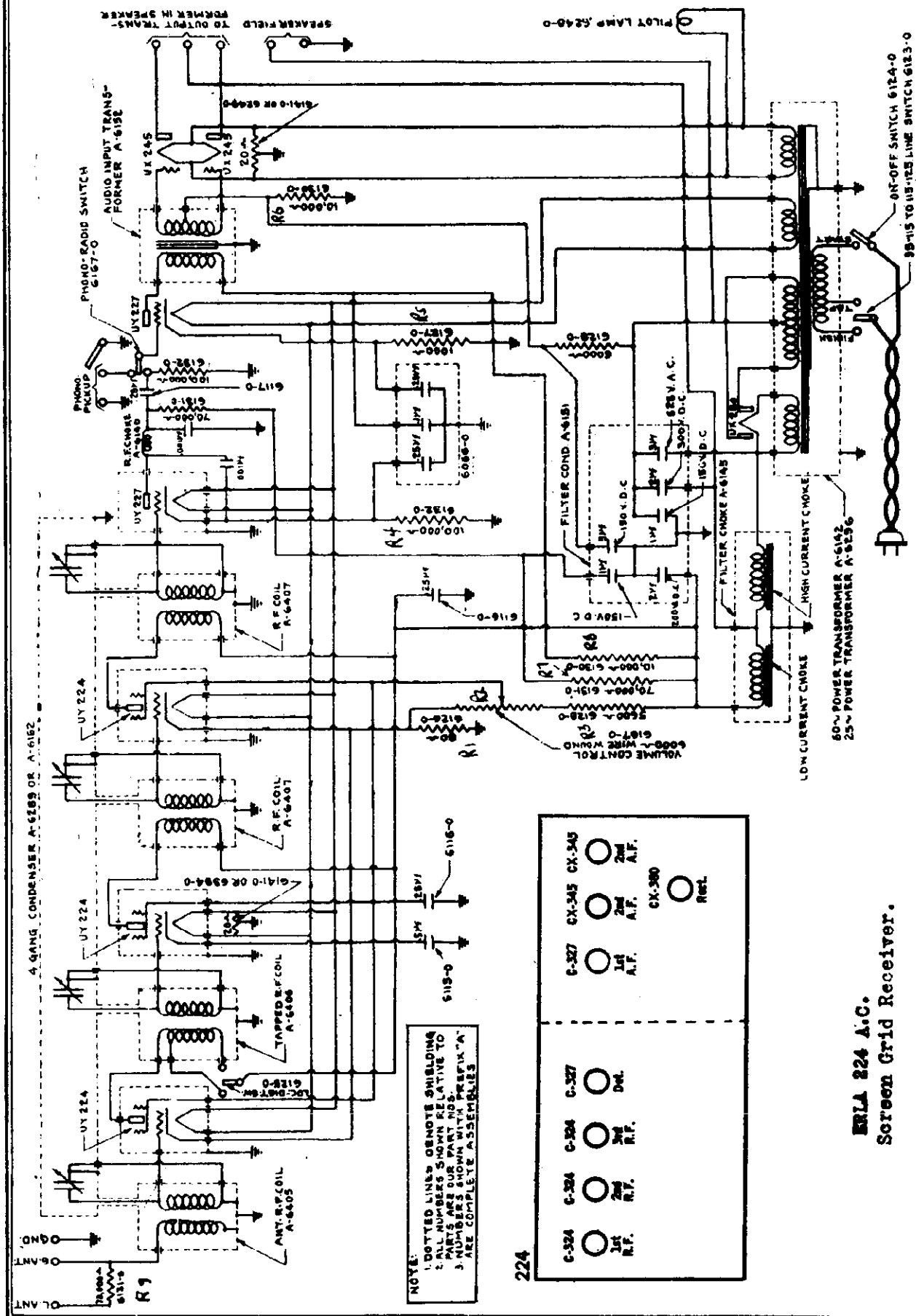
MODEL RF Unit  
MODEL AF Unit  
Schematic

# ELECTRICAL RESEARCH LABORATORIES, Inc.



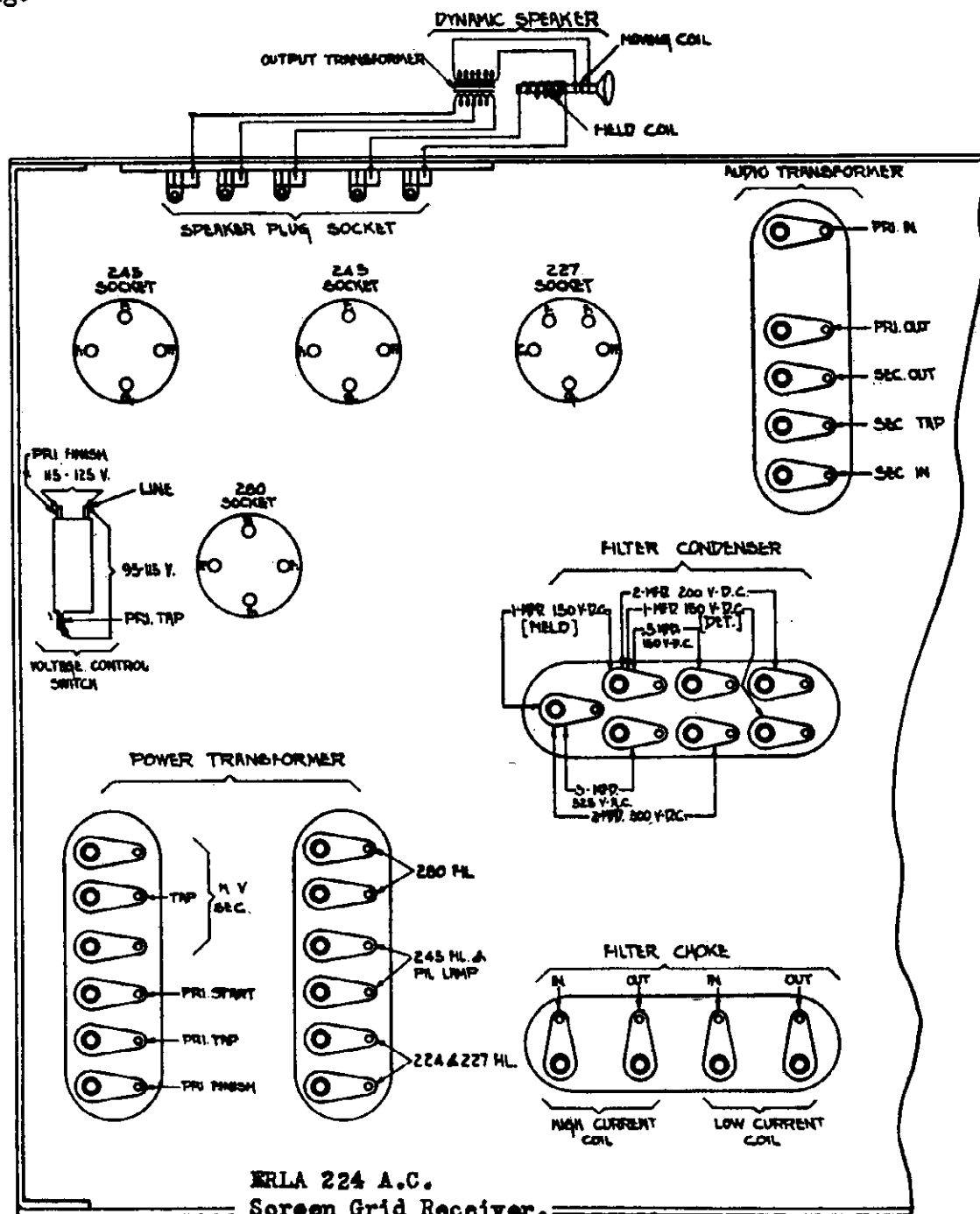
# ELECTRICAL RESEARCH LABORATORIES, Inc.

MODEL 224 AC  
Schematic



MODEL 224 AC  
Chassis  
Voltage

# ELECTRICAL RESEARCH LABORATORIES, Inc.

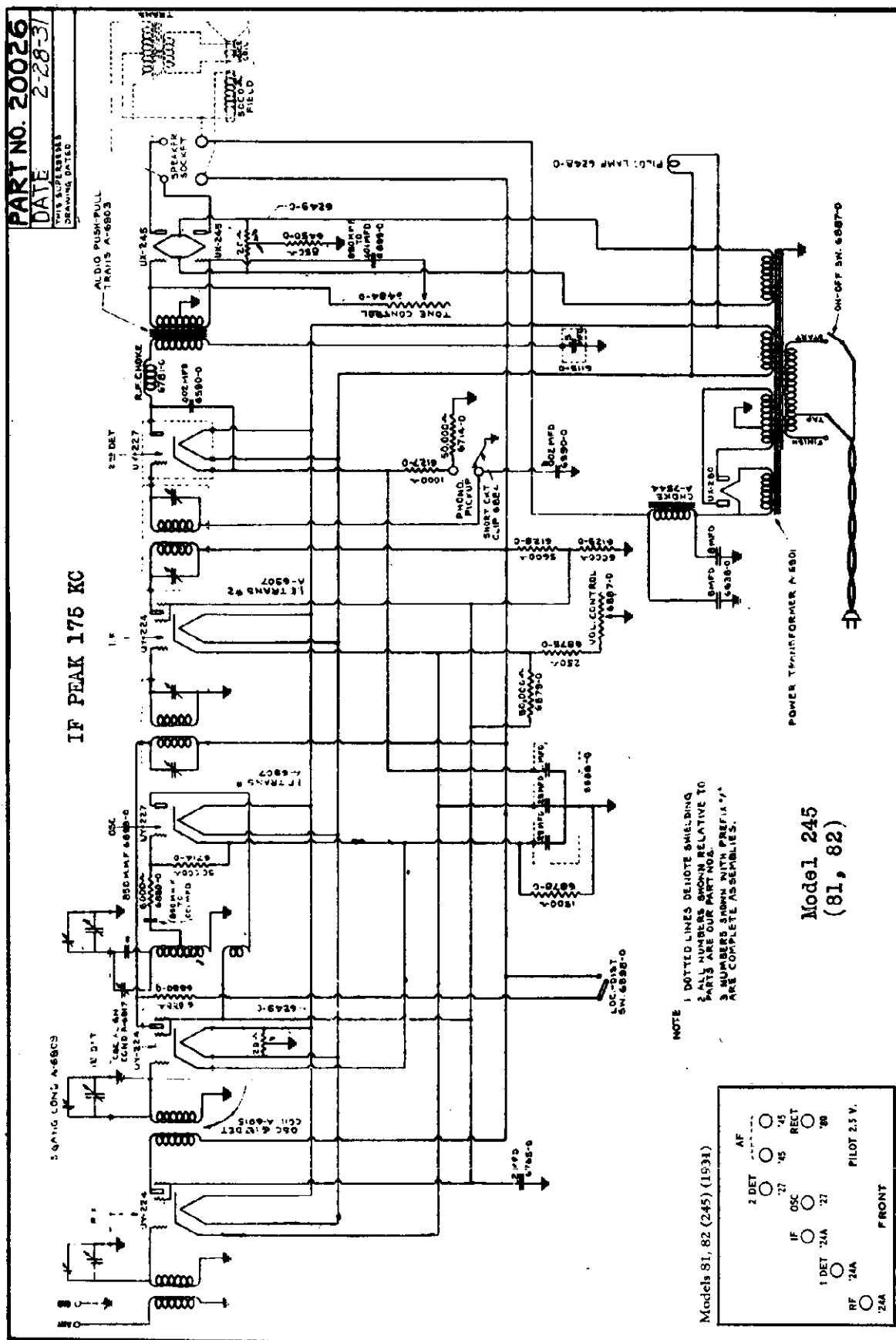


## Details of Power Supply Terminal Connections

	Tube	Fil.	Screen Grid to cathode	Plate to cathode	Ground to cathode	Grid to Filament
Audio	280	4.8 to 5v AC		340 to 360v DC		
	245	2.4 to 2.5v AC		240 to 250v DC		
	227	2.35 to 2.4v AC		90 to 100v DC	4.5v DC	45 to 50v DC
DET.	227	2.35 to 2.4v AC		60 to 75v DC	6 to 7.5v DC	
	224	2.35 to 2.4v AC	75 to 80v DC	160 to 170v DC	1.5 to 2v DC	

(The above are based on line voltage of 110 volts and the switch in the 95-115 position.)

(Volume control set to full volume position.)

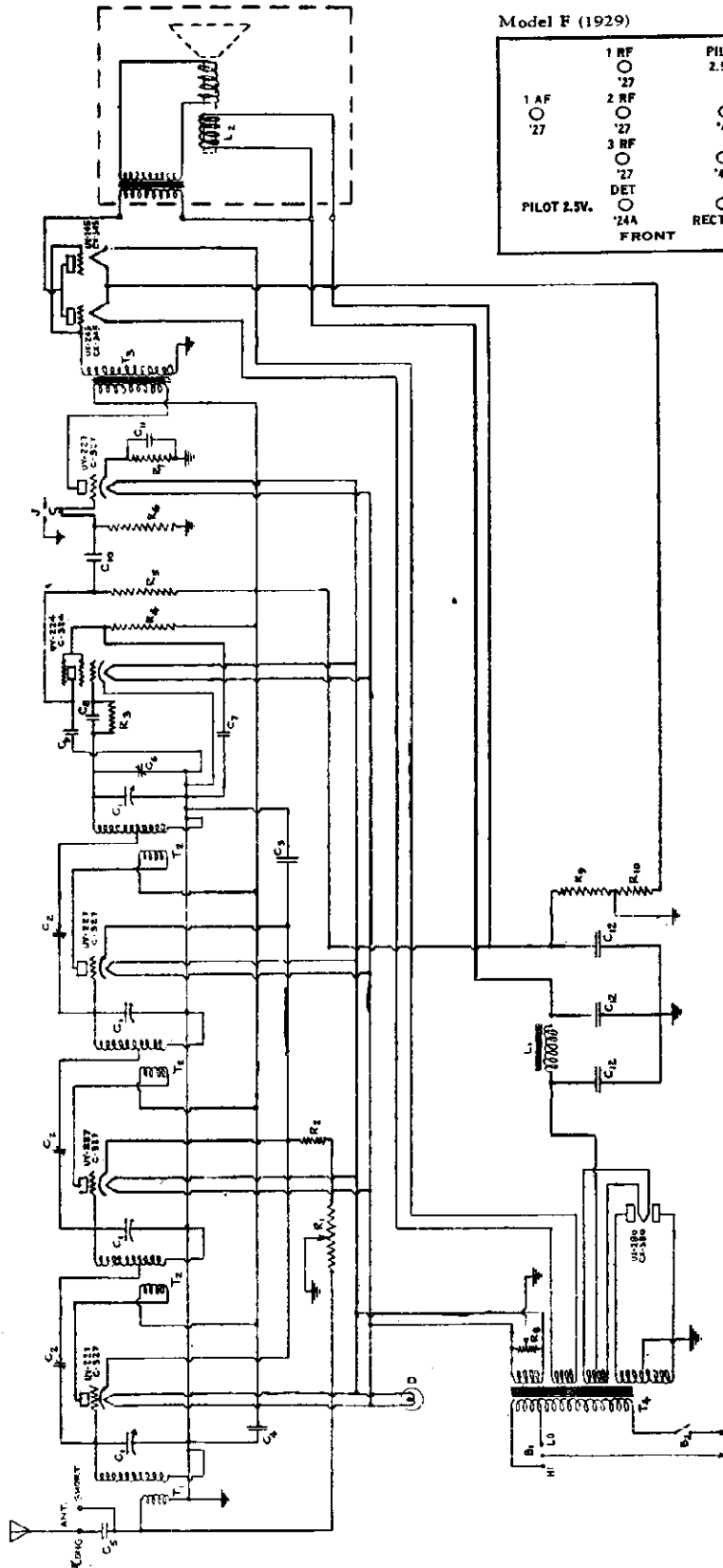
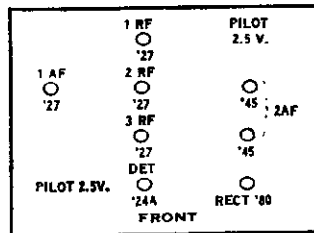




MODEL F  
Schematic  
Data

EMERSON RADIO AND PHONOGRAPH  
CORPORATION

Model F (1929)

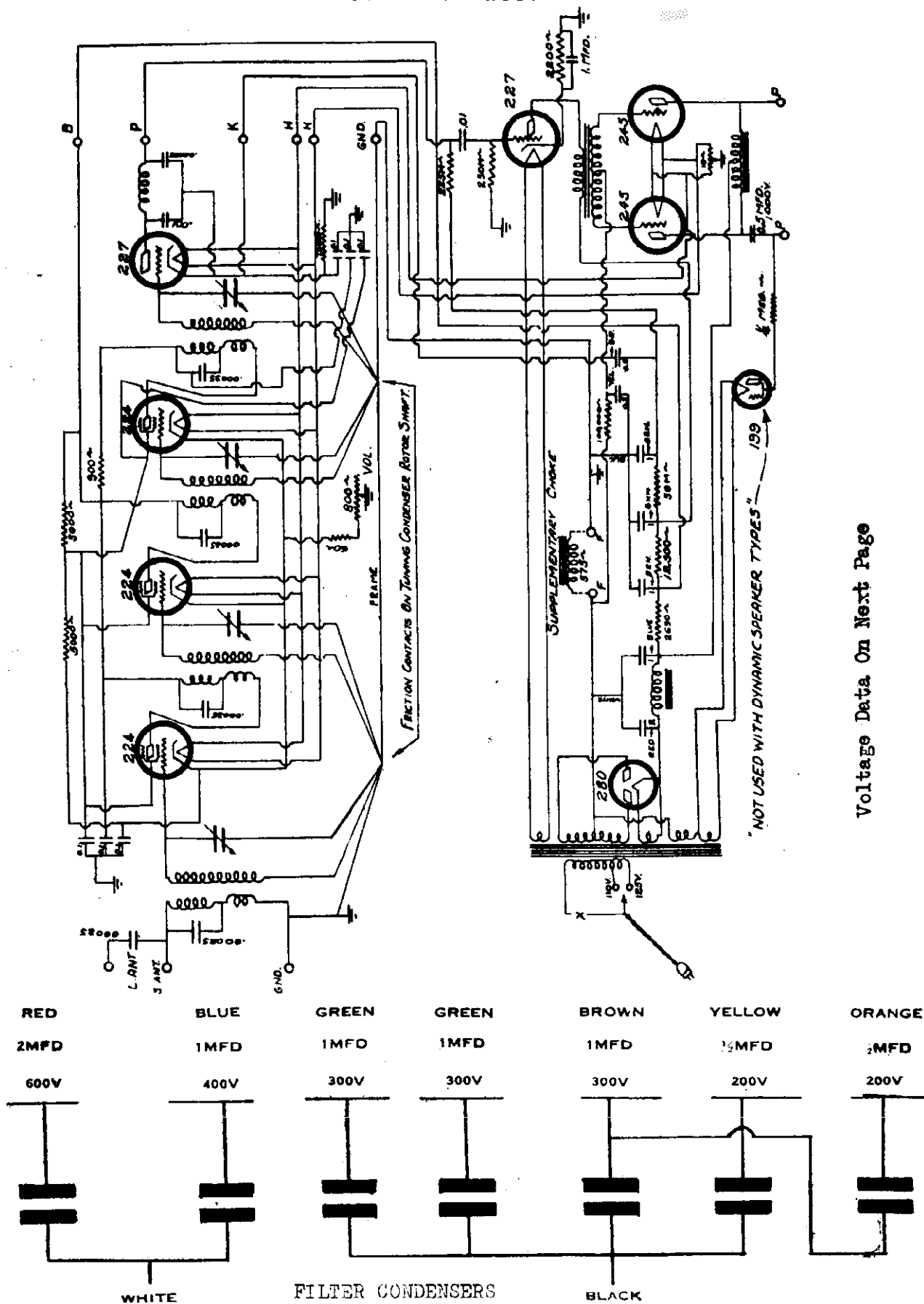


Model "F"  
Line Voltage 115—Set on High Volt Tap—Volume  
Control Position Full On \*Last Stage Is 2 No. 245 in  
Parallel

Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	Type in Model	MEASUREMENTS IN ORDER OF SET			
												W	W	W	W
W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
1	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
2	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
3	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
4	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
5	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
6	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
7	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
8	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
9	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
10	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
11	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
12	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
13	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
14	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
15	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
16	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
17	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
18	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
19	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
20	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
21	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
22	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
23	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
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36	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
37	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
38	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
39	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
40	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
41	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
42	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
43	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
44	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
45	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
46	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
47	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
48	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
49	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
50	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
51	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
52	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
53	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
54	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
55	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
56	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
57	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
58	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
59	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
60	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
61	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
62	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
63	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
64	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
65	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
66	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
67	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
68	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
69	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
70	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
71	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
72	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
73	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
74	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
75	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
76	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
77	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
78	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
79	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
80	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
81	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
82	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
83	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
84	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
85	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
86	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
87	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
88	247	181	RF	2.4	119	2.3	115	7	7	3.6	4.6	5.0	5.0	5.0	5.0
89	247	181	RF	2.4	11										

MODEL 65  
Schematic

EMERSON RADIO AND PHONOGRAPH  
CORPORATION

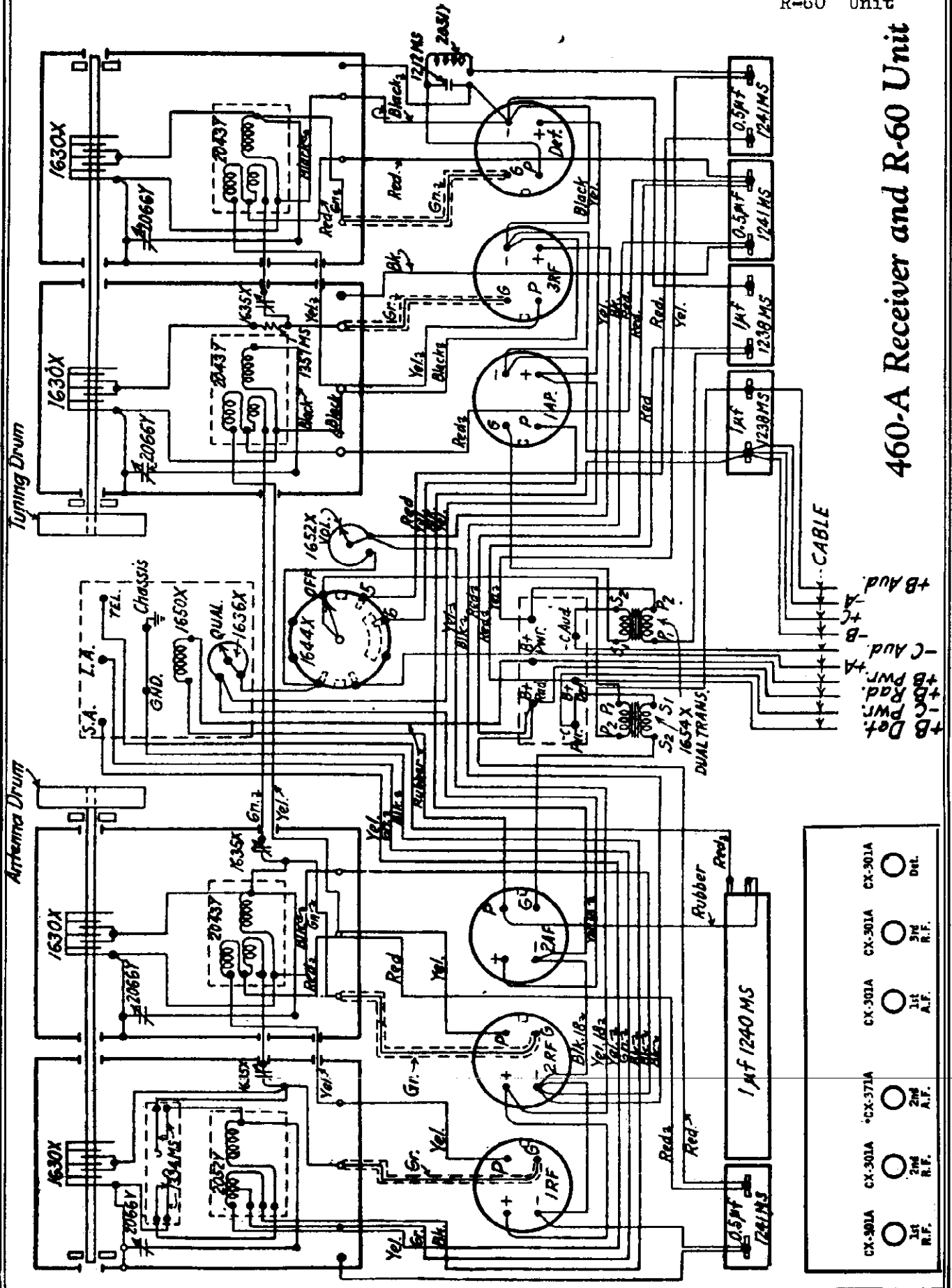


Voltage Data On Next Page

FADA RADIO & ELECTRIC CORP.

MODEL 460-A Receiver  
R-60 Unit

460-A Receiver and R-60 Unit









**“Special” A, C, Receiver**

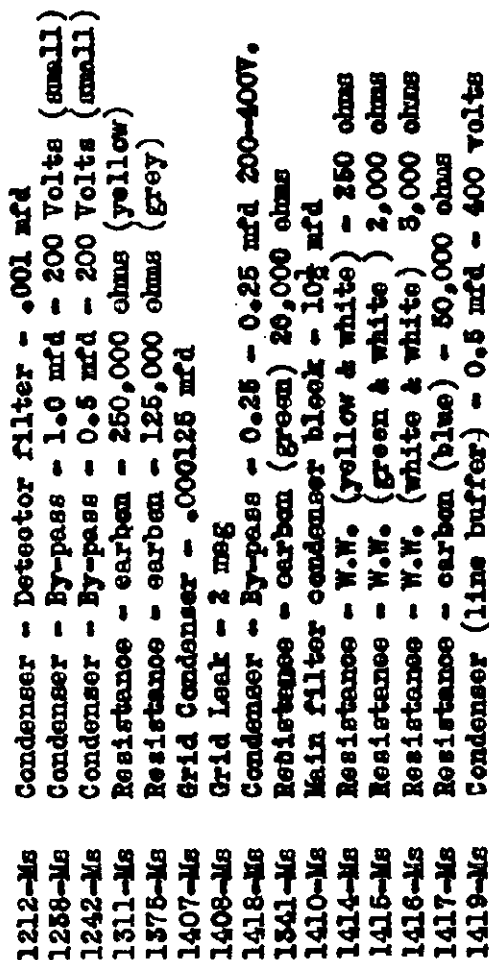
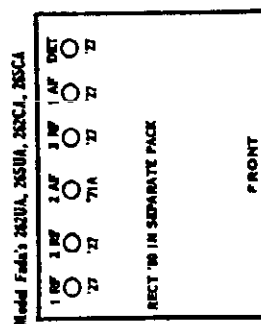


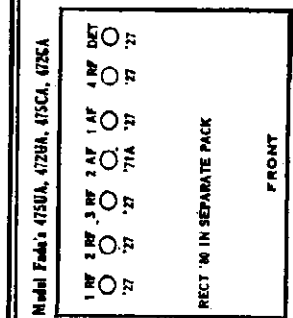
TABLE of CABLE CONNECTIONS		COLOR
1	PAIR FIL.	BLACK LIGHT TWISTED
2	PAIR FIL.	BLACK
3	WIRE FIL.	BLACK
4	WIRE FIL.	BLACK, HEAVY TWISTED
5	C (Common)	GREEN
6	C (Common)	BROWN WITH WHITE GREEN TRACER
7	C (Common)	BLACK WITH WHITE GREEN TRACER
8	1. 1B INT. 2. 1B PWR.	MAROON
9	1. 1B INT. 2. 1B PWR.	RED
10	1. 1B INT. 2. 1B PWR.	RED WITH WHITE BLACK TRACER

For Power Unit Size Model 2C<sup>10</sup>

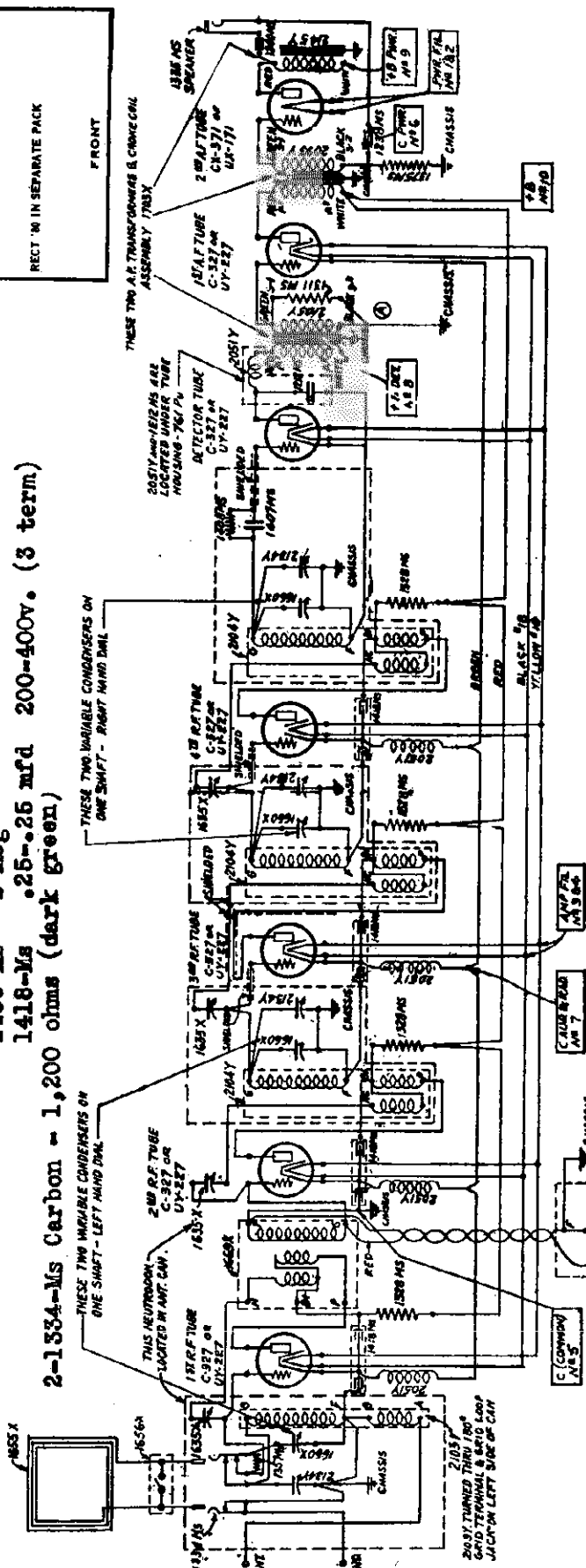


MODEL 262UA, 262CA  
265UA, 265CA

FADA RADIO & ELECTRIC CORP.

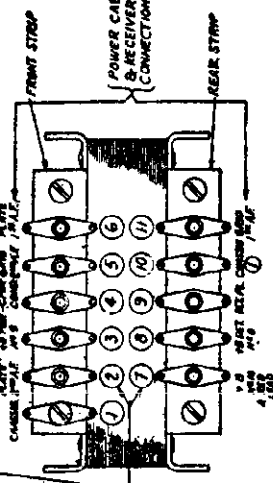


- 1212-MS .001 mfd 1311-MS 250,000 ohms (yellow)  
1238-MS 1.0 mfd 1357-MS W.W. 180 ohms  
1240-MS 1.0 mfd (large) 1375-MS Carbon - 125,000 ohms (grey)  
1242-MS 0.5 mfd 1407-MS .000125 mfd  
1408-MS 2 mfd 1418-MS .25-.26 mfd 200-400V. (3 term.)  
2-1334-MS Carbon - 1,200 ohms (dark green)

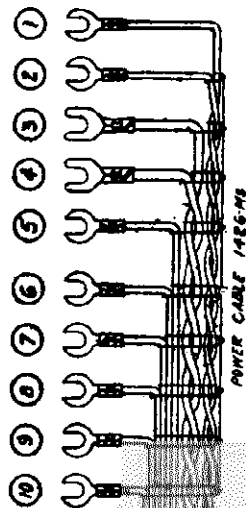


For Power Unit See Model "C"

NO	WIRE COLOR	TABLE OF CABLE CONNECTIONS
1	PR. FIL.	BLACK
2	PR. FIL.	BLACK
3	PR. FIL.	BLACK
4	PR. FIL.	BLACK
5	PR. FIL.	BLACK
6	PR. FIL.	BLACK
7	PR. FIL.	BLACK
8	PR. FIL.	BLACK
9	PR. FIL.	BLACK
10	PR. FIL.	BLACK

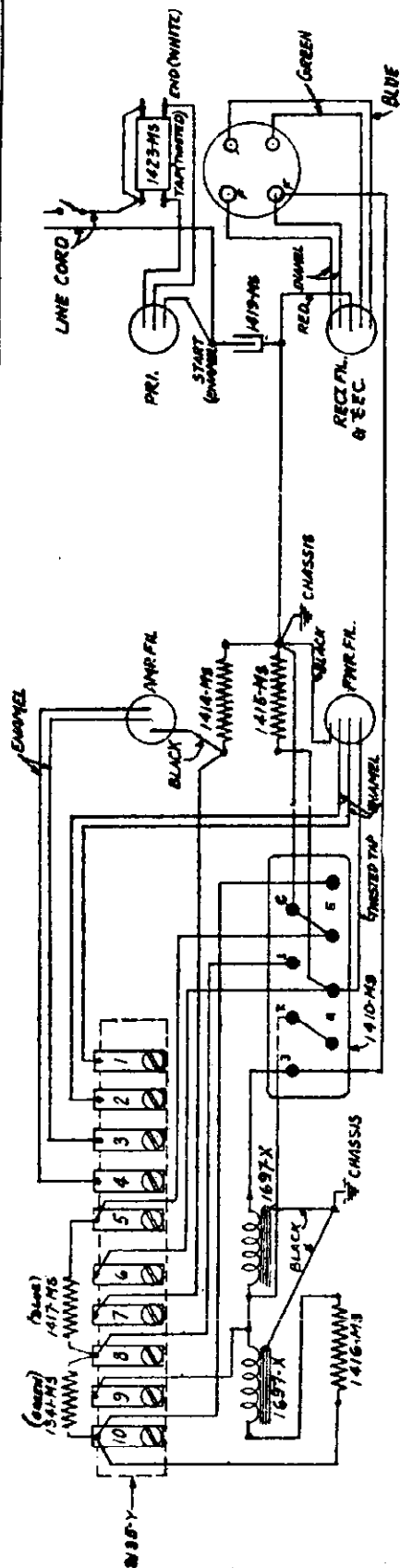


- RESISTANCE TRANSFORMERS & CHOKE COIL CONNECTIONS
1. 100,000 OHM RES. 2. 100,000 OHM RES. 3. 100,000 OHM RES. 4. 100,000 OHM RES. 5. 100,000 OHM RES. 6. 100,000 OHM RES. 7. 100,000 OHM RES. 8. 100,000 OHM RES. 9. 100,000 OHM RES. 10. 100,000 OHM RES. 11. 100,000 OHM RES. 12. 100,000 OHM RES. 13. 100,000 OHM RES. 14. 100,000 OHM RES. 15. 100,000 OHM RES. 16. 100,000 OHM RES. 17. 100,000 OHM RES. 18. 100,000 OHM RES. 19. 100,000 OHM RES. 20. 100,000 OHM RES. 21. 100,000 OHM RES. 22. 100,000 OHM RES. 23. 100,000 OHM RES. 24. 100,000 OHM RES. 25. 100,000 OHM RES. 26. 100,000 OHM RES. 27. 100,000 OHM RES. 28. 100,000 OHM RES. 29. 100,000 OHM RES. 30. 100,000 OHM RES. 31. 100,000 OHM RES. 32. 100,000 OHM RES. 33. 100,000 OHM RES. 34. 100,000 OHM RES. 35. 100,000 OHM RES. 36. 100,000 OHM RES. 37. 100,000 OHM RES. 38. 100,000 OHM RES. 39. 100,000 OHM RES. 40. 100,000 OHM RES. 41. 100,000 OHM RES. 42. 100,000 OHM RES. 43. 100,000 OHM RES. 44. 100,000 OHM RES. 45. 100,000 OHM RES. 46. 100,000 OHM RES. 47. 100,000 OHM RES. 48. 100,000 OHM RES. 49. 100,000 OHM RES. 50. 100,000 OHM RES. 51. 100,000 OHM RES. 52. 100,000 OHM RES. 53. 100,000 OHM RES. 54. 100,000 OHM RES. 55. 100,000 OHM RES. 56. 100,000 OHM RES. 57. 100,000 OHM RES. 58. 100,000 OHM RES. 59. 100,000 OHM RES. 60. 100,000 OHM RES. 61. 100,000 OHM RES. 62. 100,000 OHM RES. 63. 100,000 OHM RES. 64. 100,000 OHM RES. 65. 100,000 OHM RES. 66. 100,000 OHM RES. 67. 100,000 OHM RES. 68. 100,000 OHM RES. 69. 100,000 OHM RES. 70. 100,000 OHM RES. 71. 100,000 OHM RES. 72. 100,000 OHM RES. 73. 100,000 OHM RES. 74. 100,000 OHM RES. 75. 100,000 OHM RES. 76. 100,000 OHM RES. 77. 100,000 OHM RES. 78. 100,000 OHM RES. 79. 100,000 OHM RES. 80. 100,000 OHM RES. 81. 100,000 OHM RES. 82. 100,000 OHM RES. 83. 100,000 OHM RES. 84. 100,000 OHM RES. 85. 100,000 OHM RES. 86. 100,000 OHM RES. 87. 100,000 OHM RES. 88. 100,000 OHM RES. 89. 100,000 OHM RES. 90. 100,000 OHM RES. 91. 100,000 OHM RES. 92. 100,000 OHM RES. 93. 100,000 OHM RES. 94. 100,000 OHM RES. 95. 100,000 OHM RES. 96. 100,000 OHM RES. 97. 100,000 OHM RES. 98. 100,000 OHM RES. 99. 100,000 OHM RES. 100. 100,000 OHM RES.



"7" AC Receiver  
475-UA or CA and SF45/75-UA or CA  
472-UA or CA and SF45/72-UA or CA

## FADA RADIO &amp; ELECTRIC CORP.

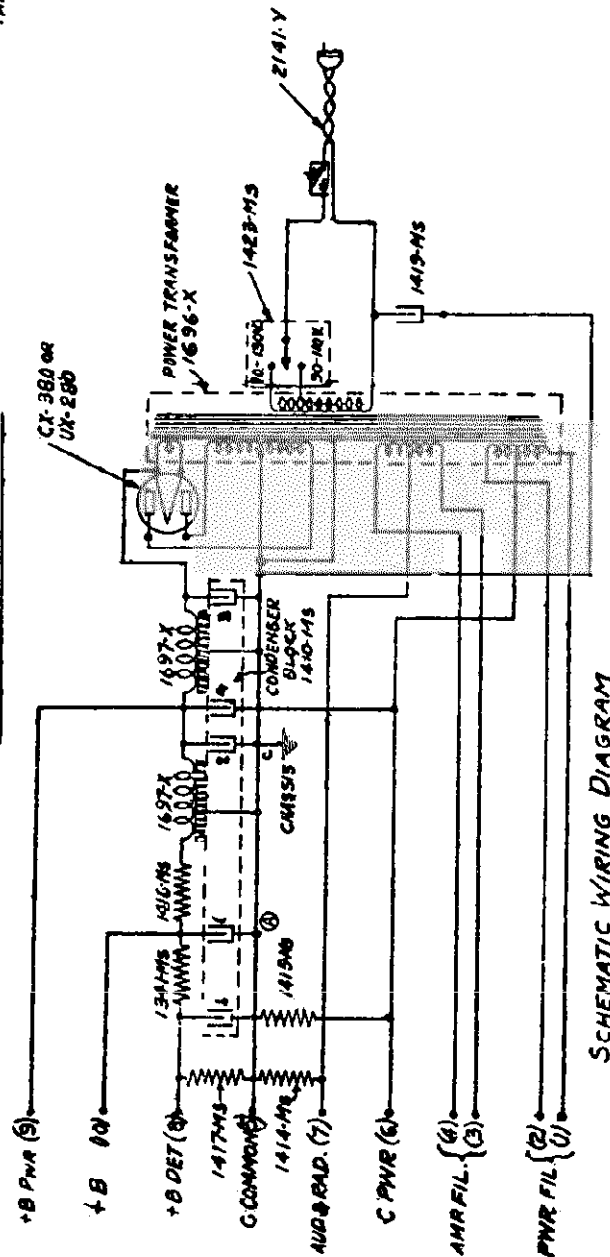
MODEL "C"   
 Electric Unit

ACTUAL WIRING DIAGRAM

TABLE OF CABLE CONNECTIONS

- 1 } POWER FILAMENT
- 2 }
- 3 } AMP FILAMENT
- 4 }
- 5- C. COMMON
- 6- C. PWR
- 7- C. AUD. & RAD.
- 8- +B DET.
- 9- +B PWR
- 10- +B

Type "J" unit for 25 cycle current is similar, except that a 1706X power transformer is used instead of the 1696X transformer as indicated on the type "C" unit for 60 cycles.



SCHEMATIC WIRING DIAGRAM

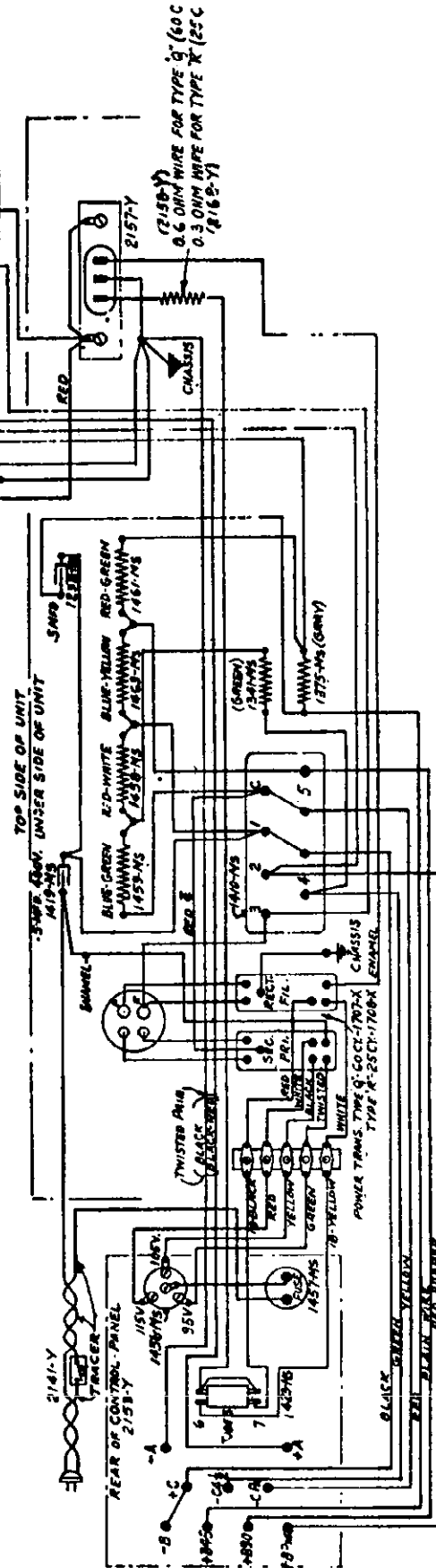
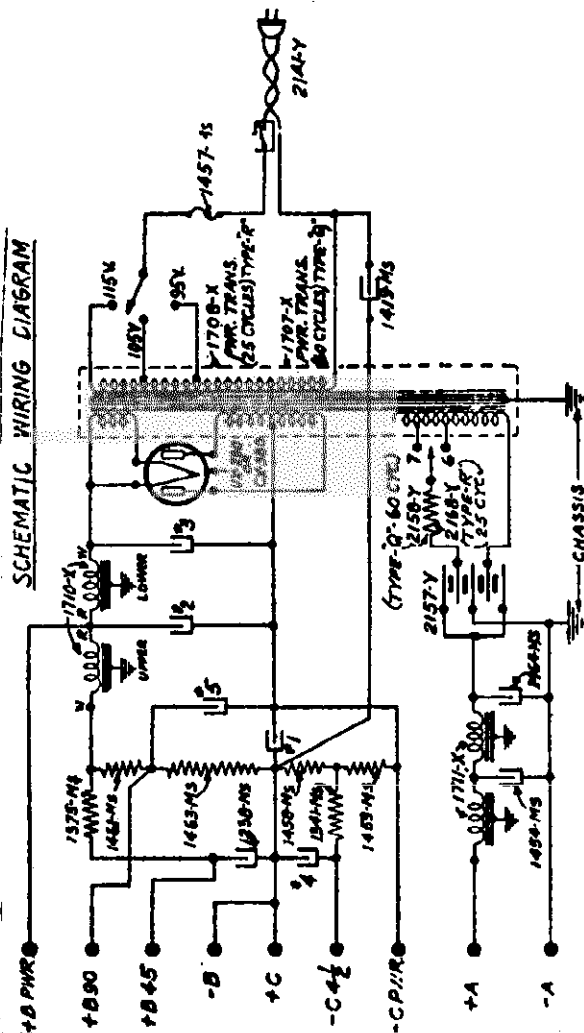
1341 Ms	Carbon	20,000 ohms	red and green or green only
1414 Ms	Wire	250 ohms	yellow and white
1415 Ms	Wire	2,000 ohms	green and white
1416 Ms	Wire	3,000 ohms	white and white
1417 Ms	Carbon	50,000 ohms	blue

Type "C" Electric Unit, used with "Special" and "7" AC Receivers

MODEL ABC S.P.U.  
66-Q, 62-R

**FADA RADIO & ELECTRIC CORP.**

1375	Ms	Grey	125,000 ohms
1341	Ms	Green	20,000 ohms
1458	Ms	Red-White	75 ohms
1459	Ms	Blue-Green	500 ohms
1461	Ms	Red-Green	750 ohms
1463	Ms	Blue-Yellow	10,000 ohms

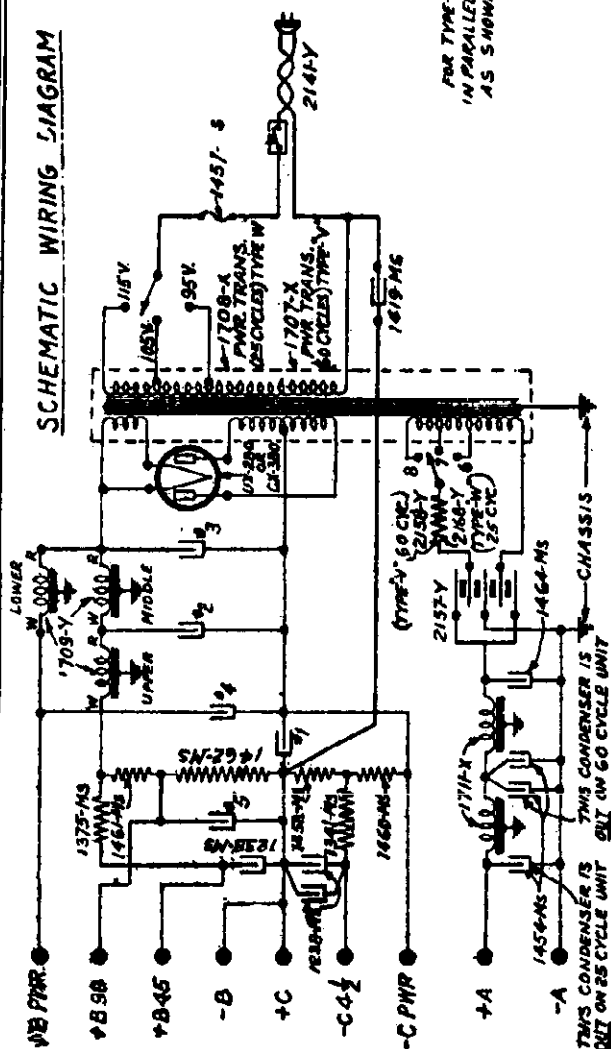


## “ABC” Six Volt Tube Supply Unit — Types 66-Q and 62-R

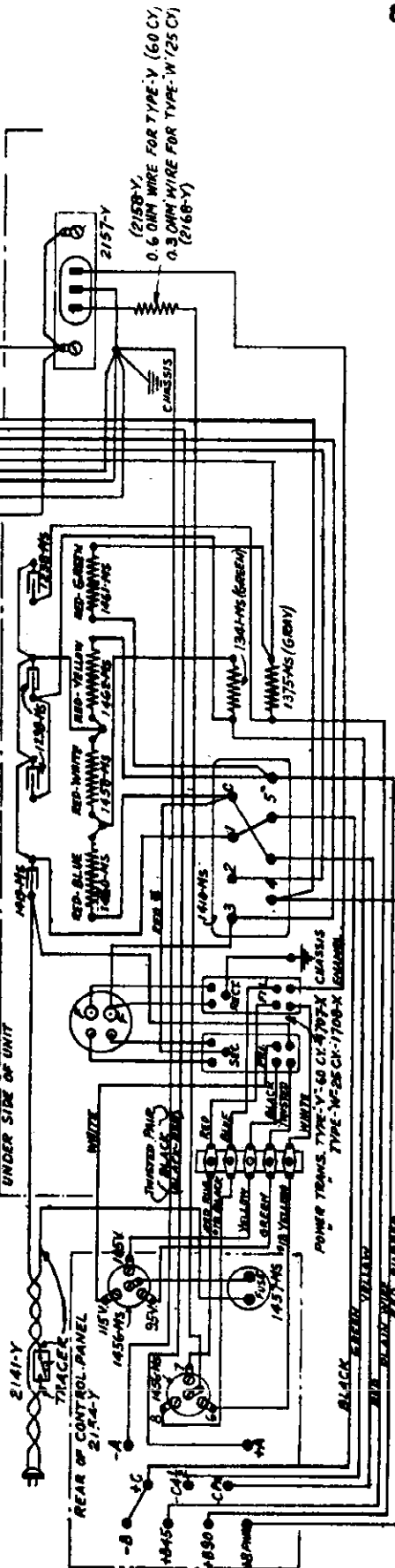
FADA RADIO & ELECTRIC CORP.

MODEL ABC S.P.U.  
86-V, 82-W

SCHEMATIC WIRING DIAGRAM

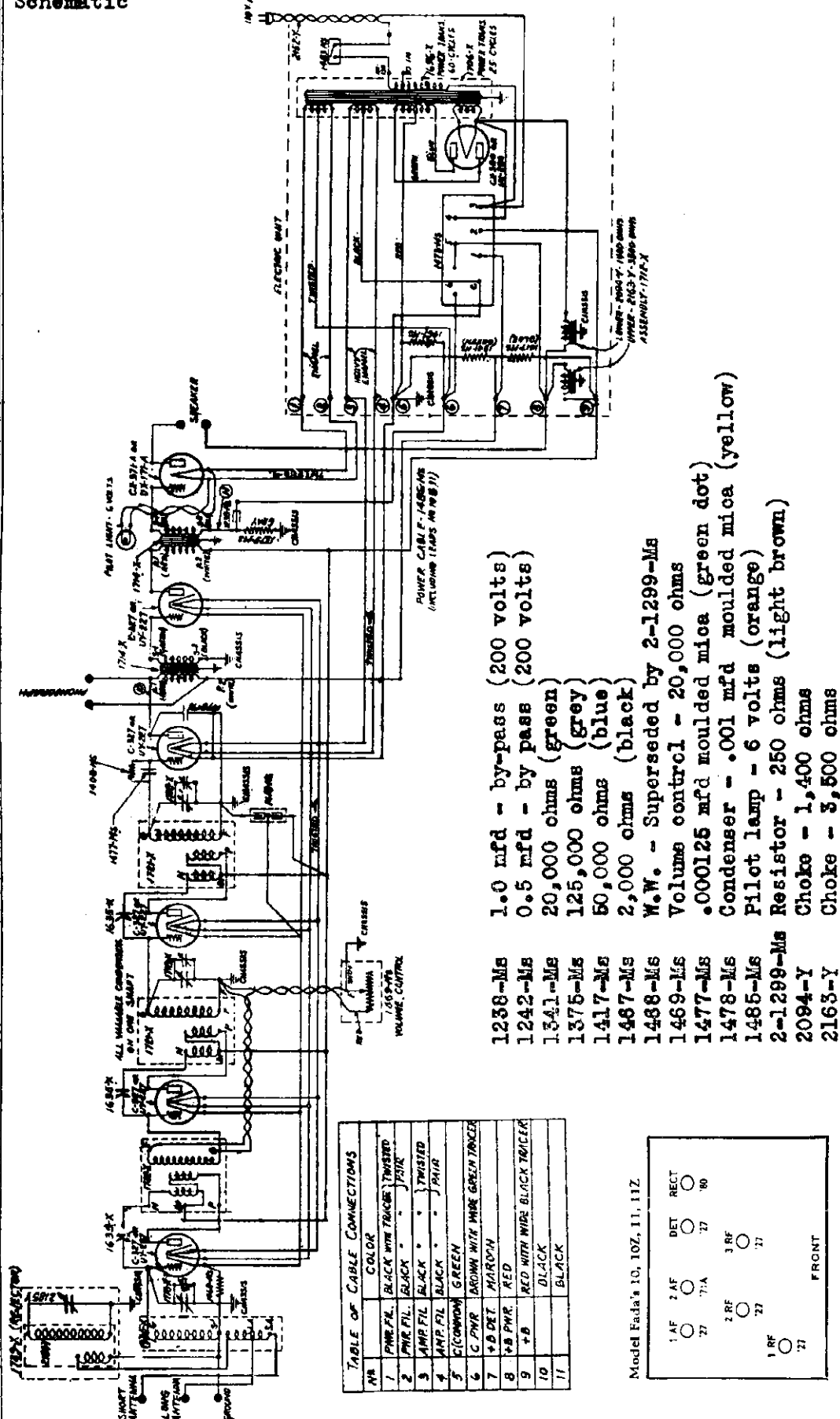


TOP SIDE OF UNIT  
UNDER SIDE OF UNIT

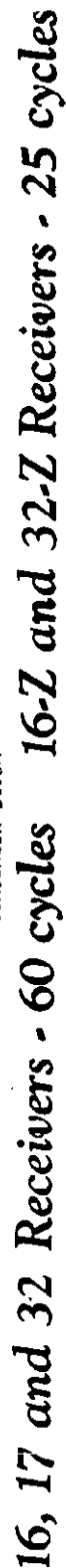


ACTUAL WIRING DIAGRAM

"ABC" Six Volt Tube Supply Unit — Types 86-V and 82-W

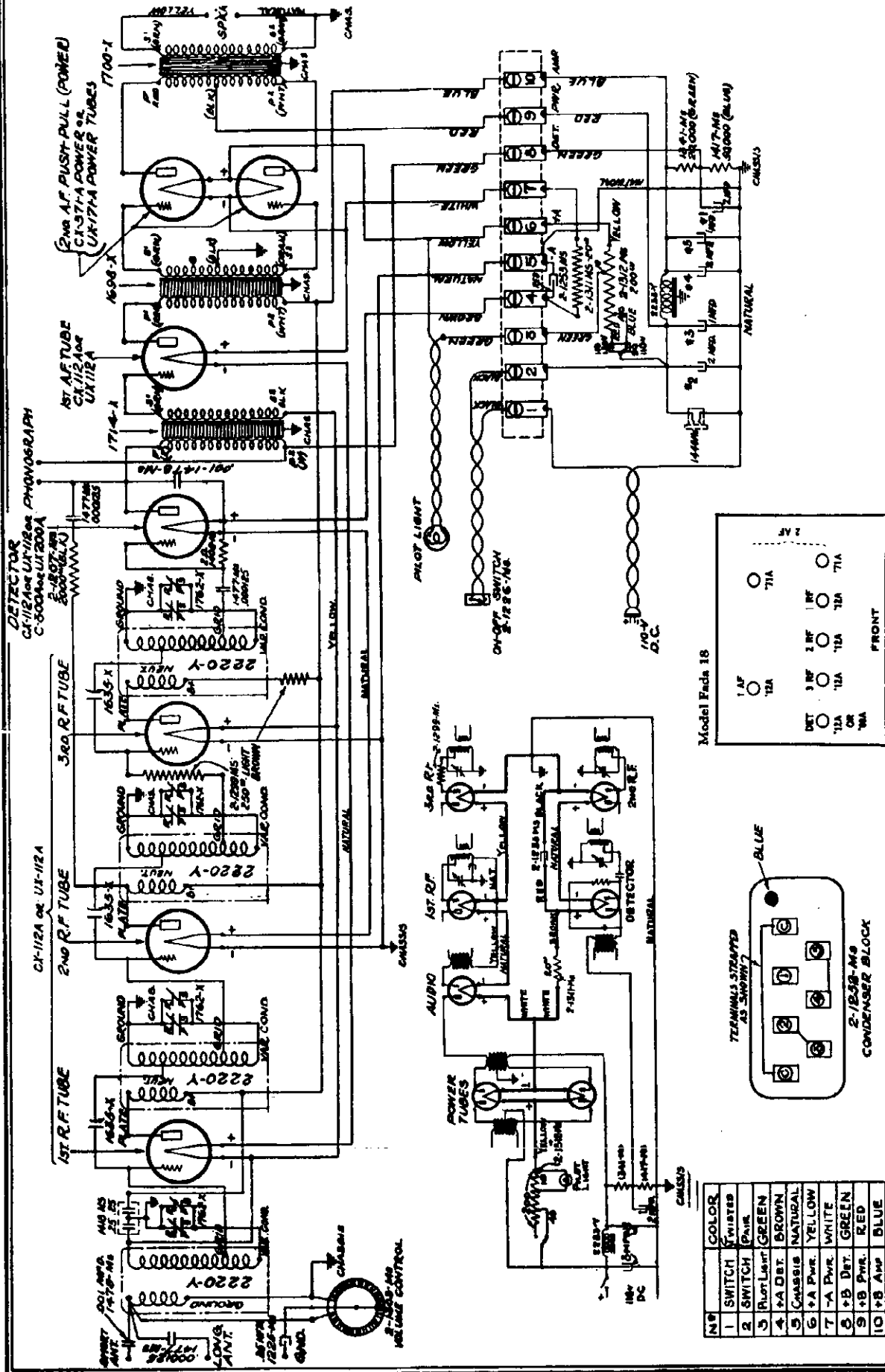


10, 11, 30 and 31 Receivers—60 cycles  
10Z, 11Z, 30Z and 31Z Receivers—25 cycles



**MODEL 18 DC**  
**Schematic**

**FADA RADIO & ELECTRIC CORP.**



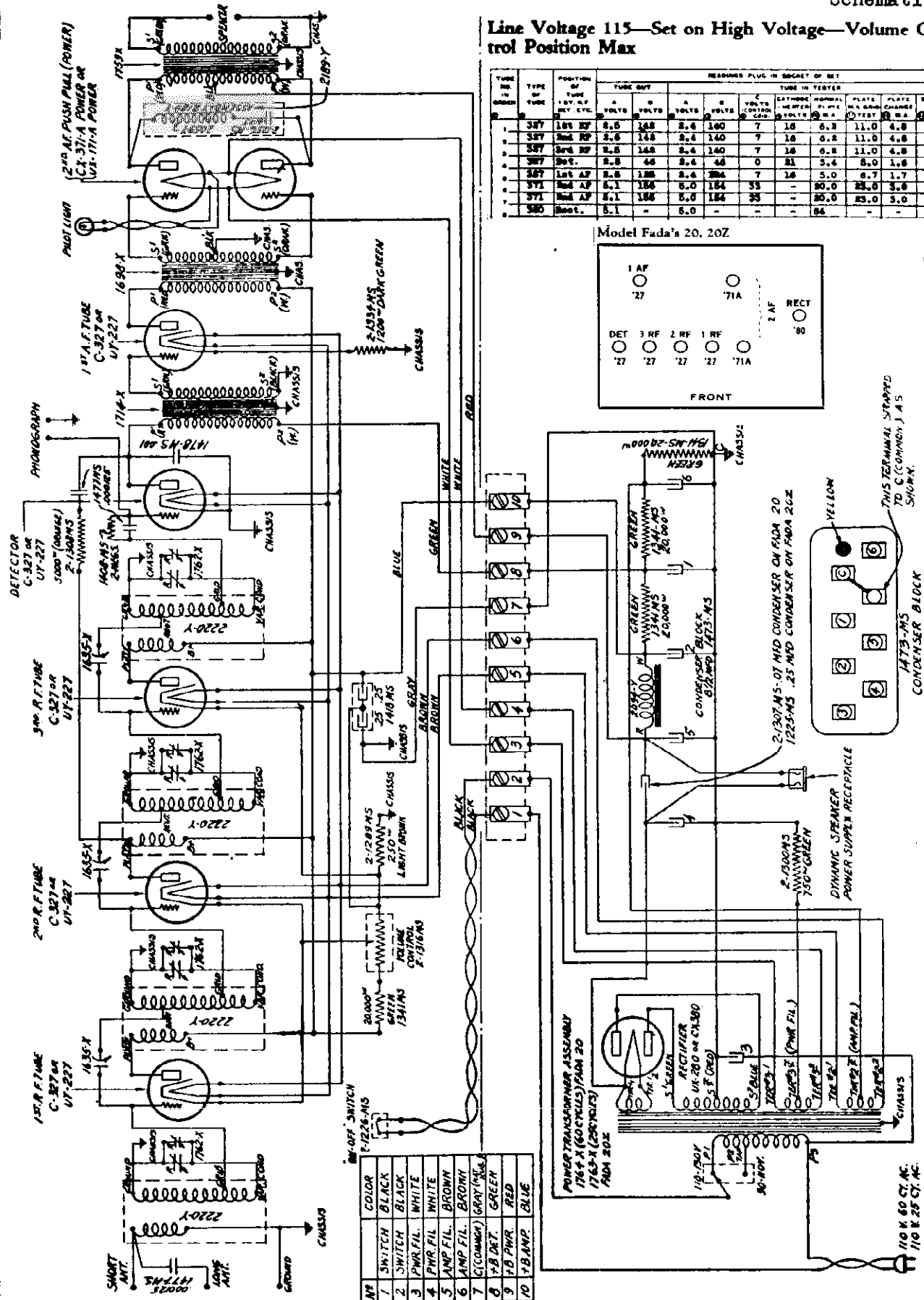
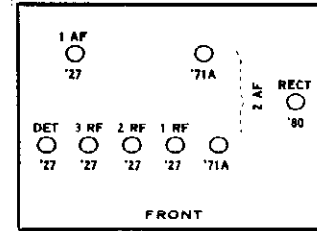
## FADA RADIO &amp; ELECTRIC CORP.

MODEL 20,  
MODEL 20Z  
Schematic

Line Voltage 115—Set on High Voltage—Volume Control Position Max

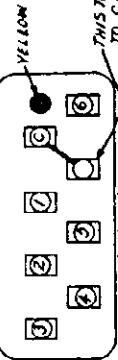
TUBE NO.	TYPE OF TUBE	POSITION OF TUBE IN SET OR C.V.C.	TUBE DATA					READINGS PLUG IN SOCKET OF SET				
			A VOLTS	B VOLTS	C VOLTS	D VOLTS	E VOLTS	CATHODE HEATER VOLTS	NORMAL PLATE VOLTS	PLATE CURRENT MA	SCREEN CURRENT MA	SCREEN VOLTAGE
1	357	1st RF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
2	357	2nd RF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
3	357	3rd RF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
4	357	3rd RF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
5	357	1st AF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
6	357	2nd AF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
7	357	3rd AF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
8	357	4th AF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
9	357	5th AF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-
10	357	6th AF	8.5	145	8.5	140	7	1.6	6.8	11.0	4.8	-

Model Fada's 20, 20Z



20 Receiver—AC 60 cycles 20-Z Receiver—AC 25 cycles

THIS TERMINAL STAMPED TO C (COMMON) AS SHOWN.

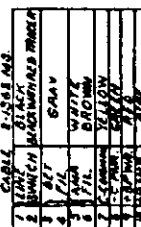


DYNAMIC SPEAKER POWER SUPPLY RECEPTACLE

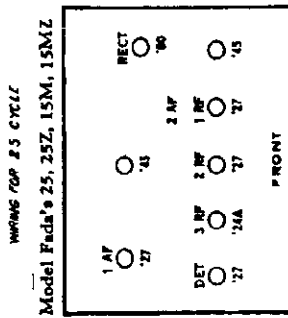
110 V. 60 CY. AC.  
110 V. 25 CY. AC.

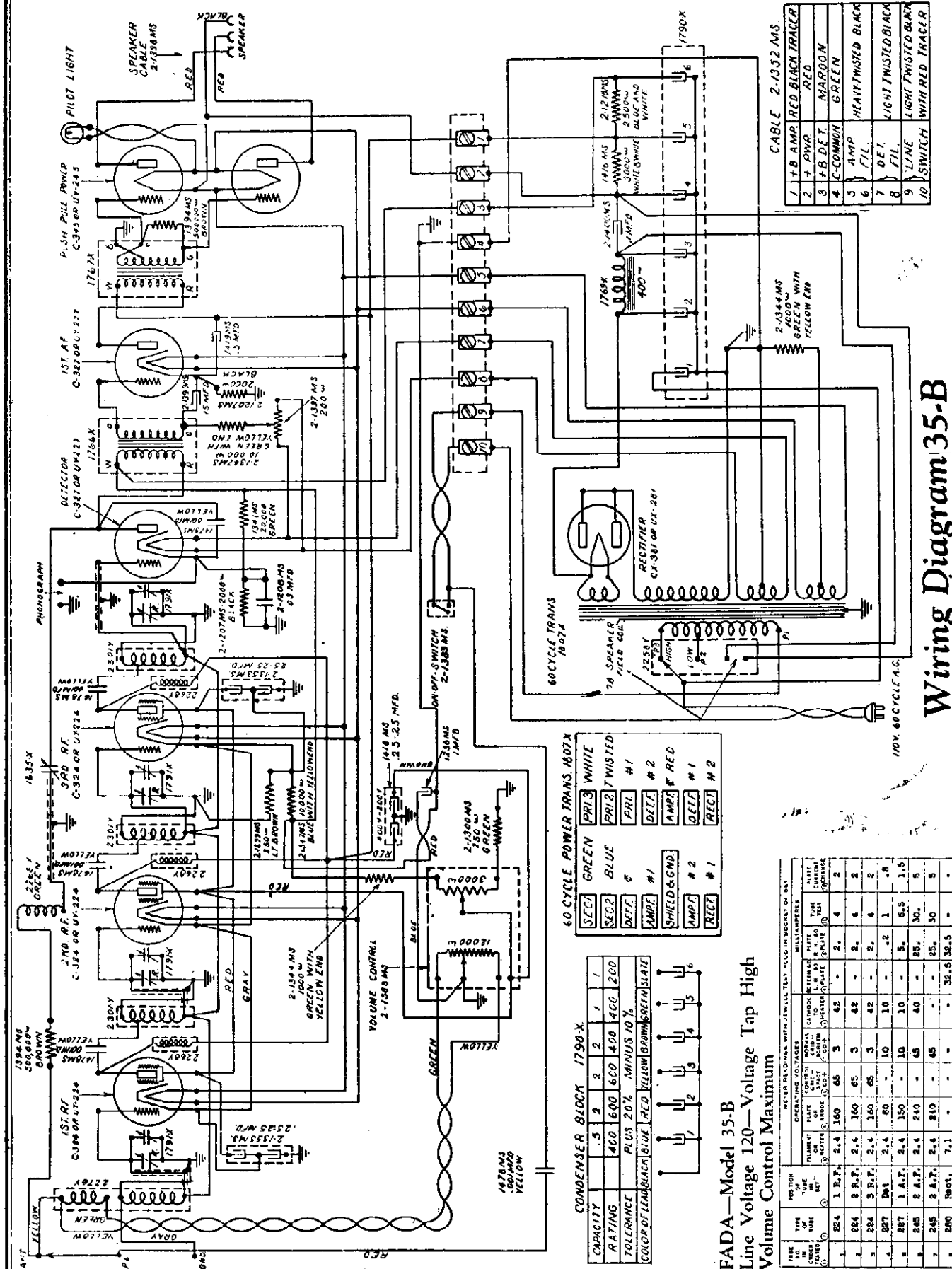


TYPE OF TUMOR	POSITION OF TUMOR	TUMOR TYPE	MEASUREMENTS PLAIN AND THIN SECTION										TUMORS IN FIBERS										TOTAL NUMBER OF FIBERS	TOTAL NUMBER OF FIBERS CHAINED TOGETHER	TOTAL NUMBER OF FIBERS IN CLUSTERS			
			A mm.	B mm.	C mm.	D mm.	E mm.	F mm.	G mm.	H mm.	I mm.	J mm.	K mm.	L mm.	M mm.	N mm.	O mm.	P mm.	Q mm.	R mm.	S mm.	T mm.				U mm.	V mm.	W mm.
337	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
337	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	1.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
337	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
337	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
337	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
336	Left eye	adenoma	2.4	1.85	1.85	0.5	55	6.5	10.8	6.0	-	-	-	-	-													



## 25 and 25-Z Receivers used with M-250 and M-250-Z Electric Units





## Wiring Diagram 35-B

[illegible]

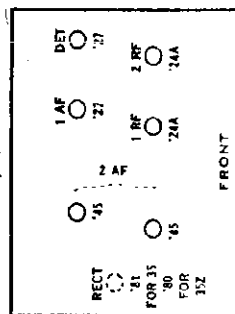
**35 Receiver—AC 60 cycles**  
**35-Z Receiver—AC 25 cycles**

**Line Voltage 115—Set on High Volt Tap—Volume Control Position Max**  
**Note: When taking screen grid tube readings ground control grid.**

CASE NO.	TYPE OF CASE UNDER	POSITION	TIME IN	TIME OUT	STANDARD PLAN IN SOCKET OF POST									
					A	B	C	D	E	F	G	H	I	J
324	1st RP	2.4	1.70	2.3	1.66	2	50	2.4	6.0	3.4	66	66	66	
324	2nd RP	2.4	1.70	2.3	1.66	2	50	2.4	6.0	3.4	66	66	66	
327	Dot	2.4	66	2.3	66	7	7	5	3.3	3.3	-	-	-	
327	1st AF	2.4	155	2.3	154	7	42	4.7	6.0	1.3	-	-	-	
345	2nd AF	2.4	240	2.3	239	49	-	83.0	98.0	5	-	-	-	
345	2nd AF	2.4	240	2.3	239	49	-	83.0	98.0	5	-	-	-	
331	React.	7.2	7.0	-	-	-	-	54	-	-	-	-	-	

CAPACITY	1.5	2	2	3	1	1
RATING		400	600	400	400	200
COLOR OF LEAD	BLACK	BLUE	RED	YELLOW	BROWN	GREEN
						SLATE

Model Fzda's 35, 35Z



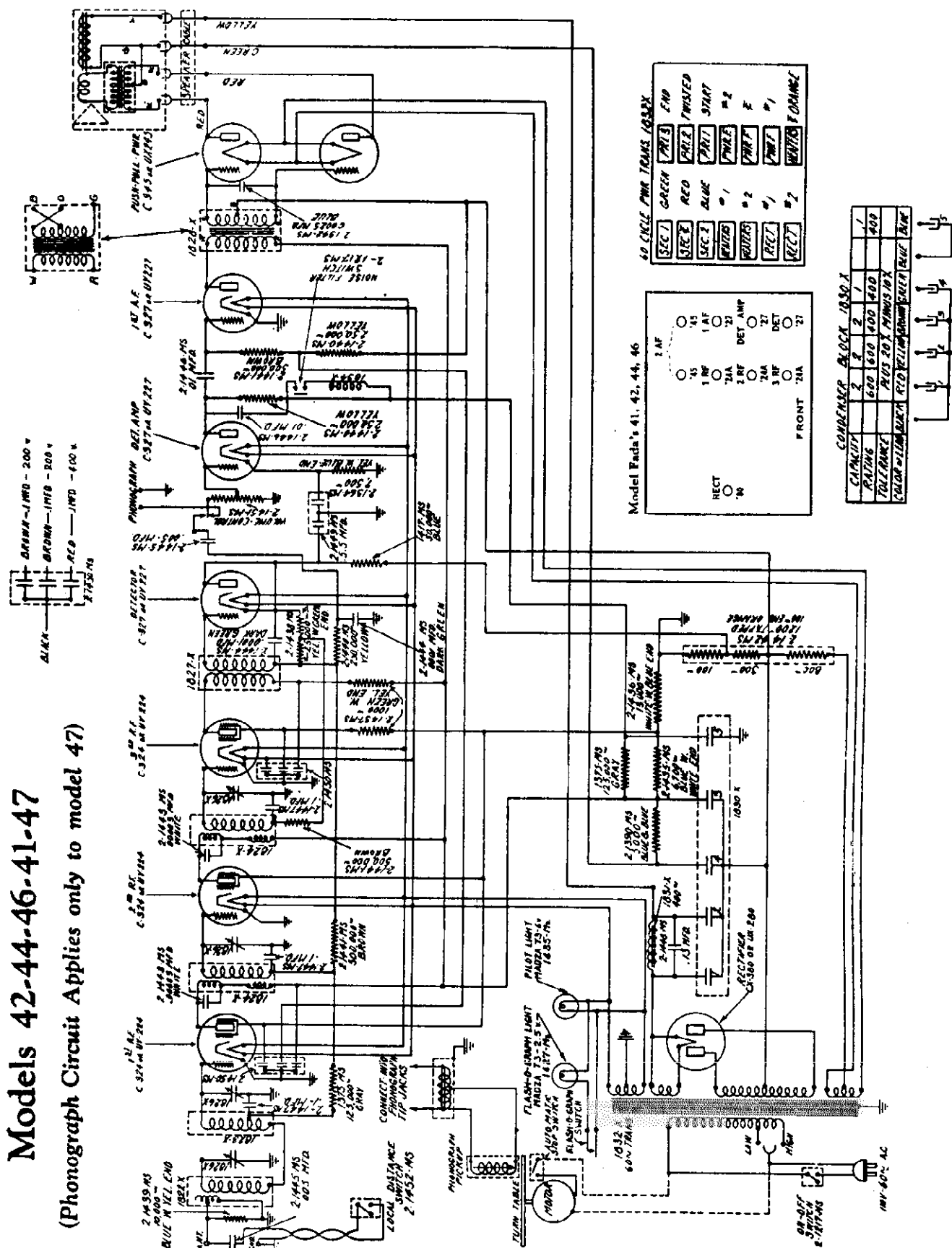
### TERMINAL LAYOUT

S1	GREEN	P3	WHITE (SW)
S2	BLUE	P2	TWISTED
D8		P1	
A9	φ1	D4IL	φ2
A7B		D2D	
A6	φ2	D5IL	φ1
RECT	φ1	RECT	φ2

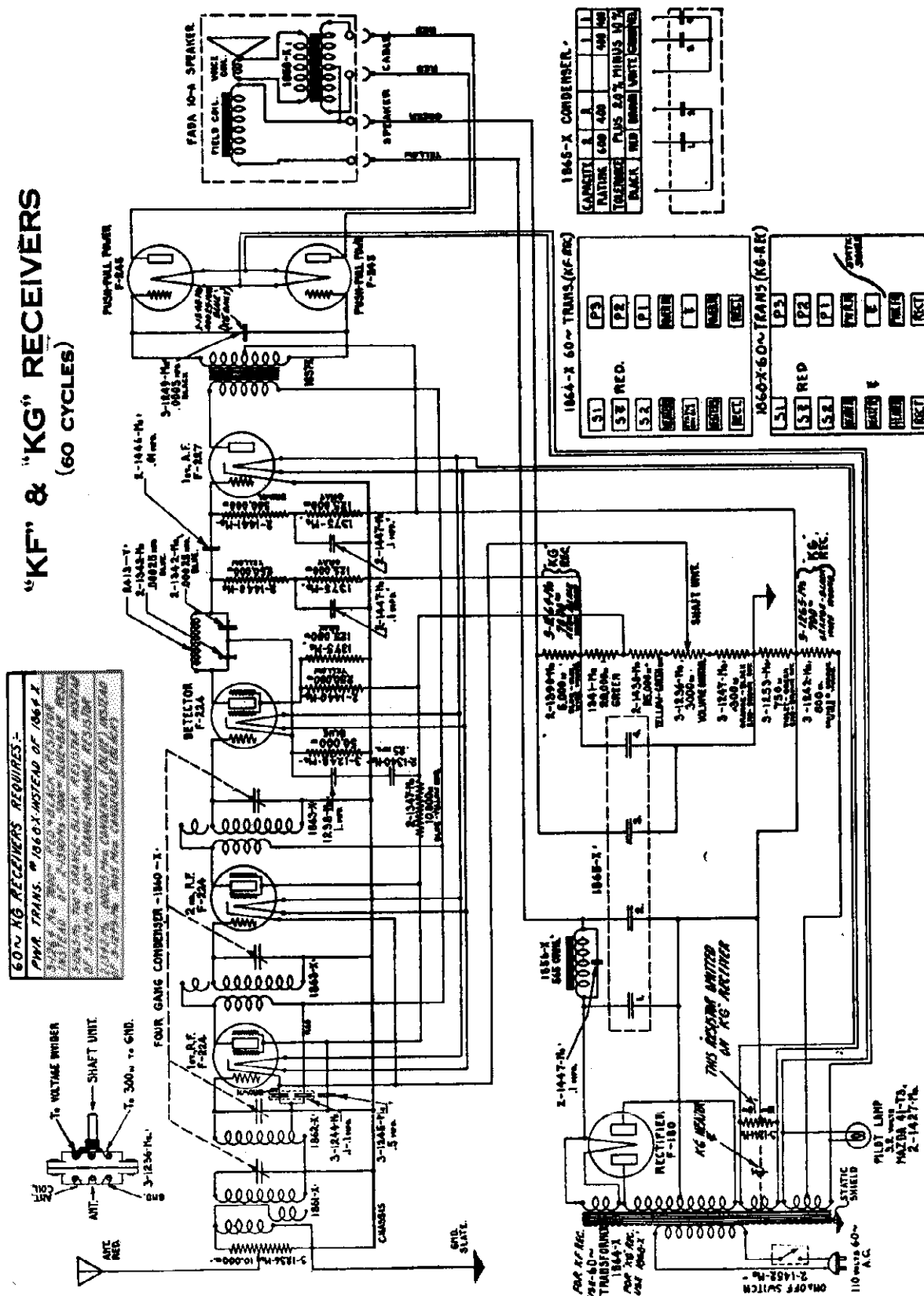


## Models 42-44-46-41-47

(Phonograph Circuit Applies only to model 47)



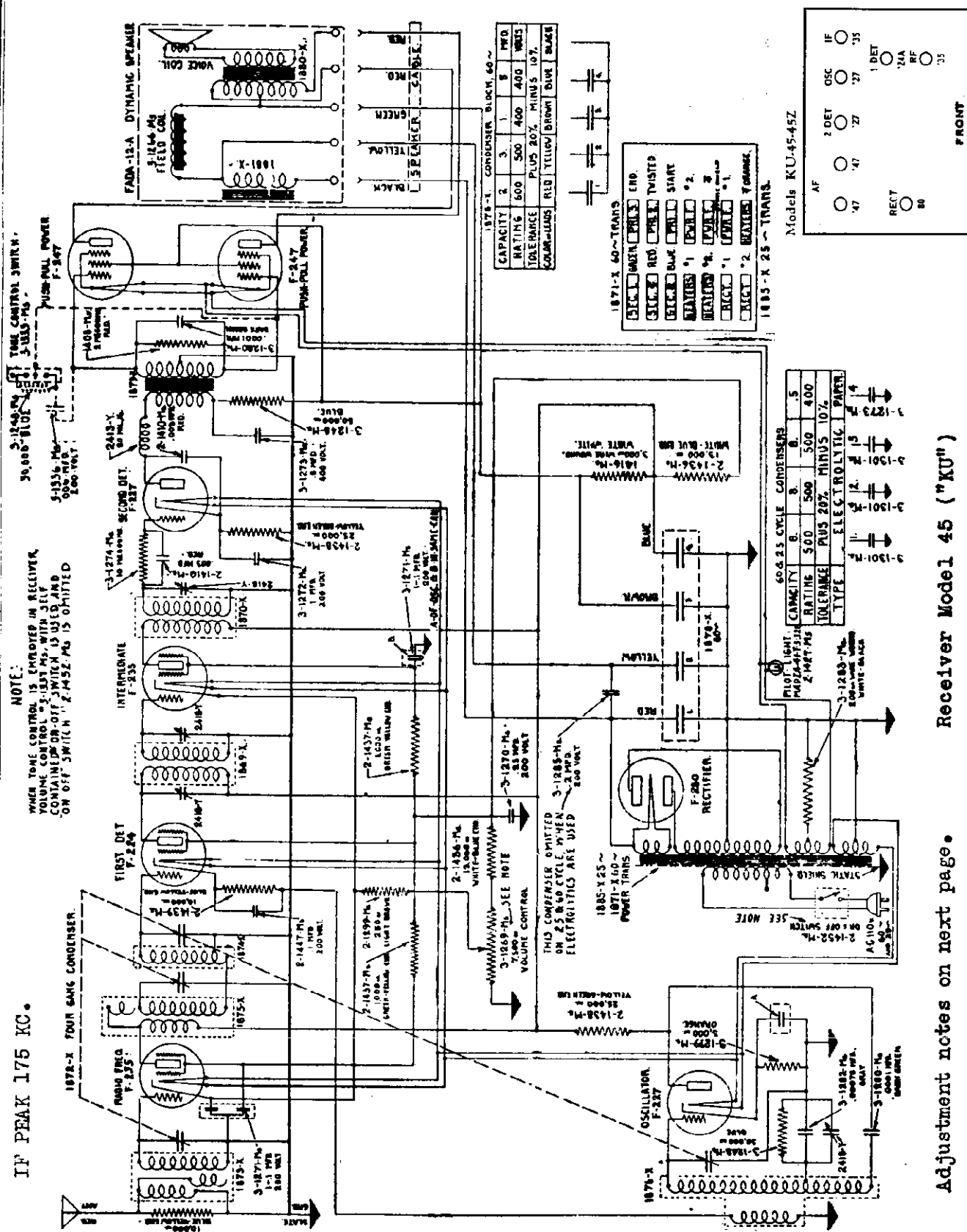
**"KF" & "KG" RECEIVERS  
(60 CYCLES)**



Model "KF" Chassis. Receiver model 43  
Model "KG" Chassis. Receiver model 761,762,764,766

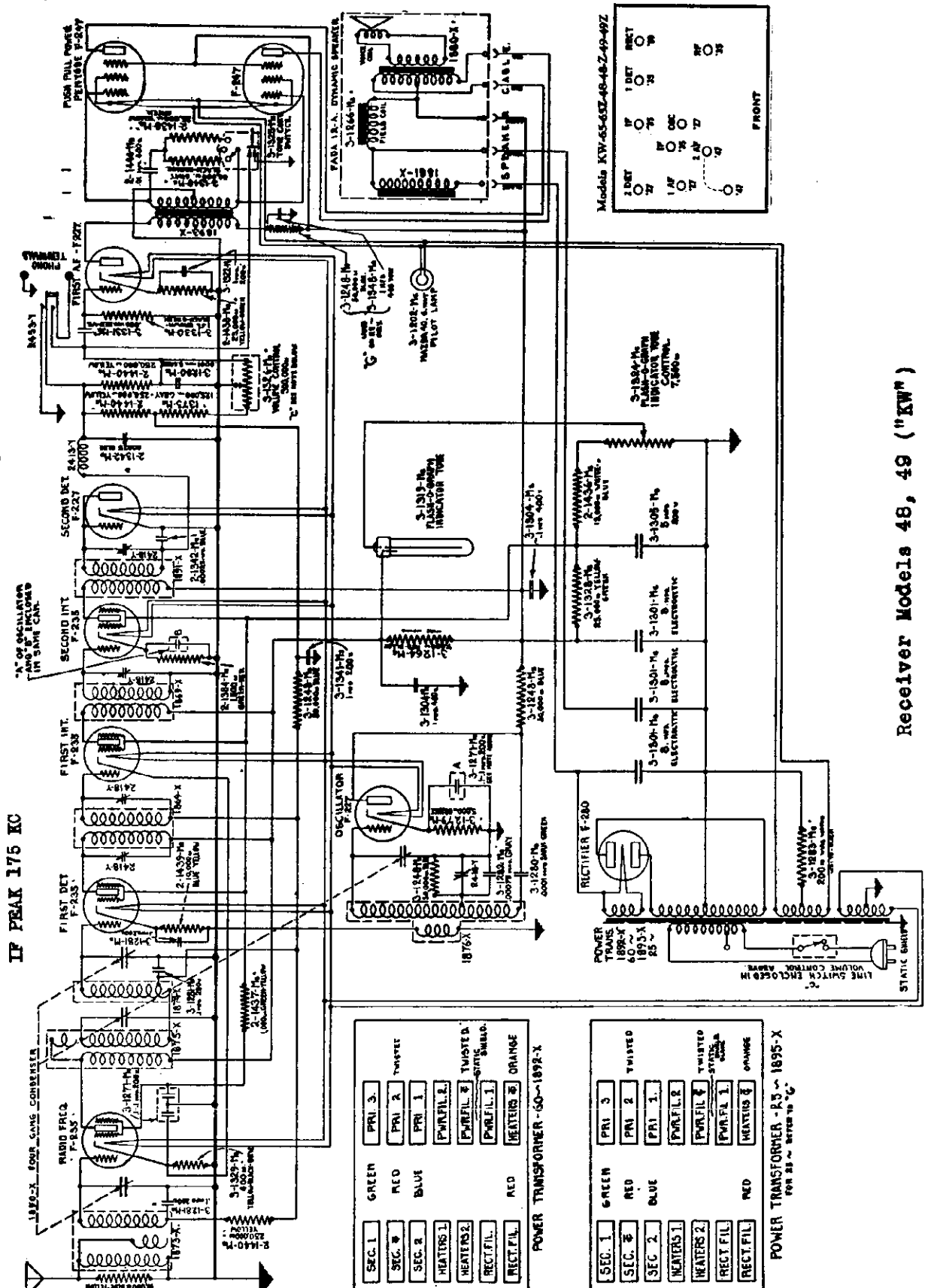
MODEL 45, 45-Z (KU)  
Schematic

FADA RADIO & ELECTRIC CORP.



Adjustment notes on next page.

Receiver Model 45 ("KU")



MODEL 45, 48, 49  
Service Notes

## FADA RADIO & ELECTRIC CORP.

### SPECIAL DATA FOR MODELS 45, 48 and 49 RECEIVERS

Trimmer adjustment frequencies are 175 KC, 600 KC and 1400 KC. The trimmer condensers on the model 45 receiver are located in the rear right hand corner of the chassis looking at the chassis from the front. Two of the IF trimmers are on the right hand side, near the rear and the third trimmer condenser (IF) is that most distant from the right hand rear corner of the chassis. The trimmer upon the rear of the chassis, near the right hand corner is the oscillator series condenser.

In the models 48 and 49, the oscillator series condenser control is accessible from the top of the chassis, on the left end of the chassis to the left of the shields. The four IF trimmers are accessible through the rear of the chassis, one the left end, looking at the chassis from the front.

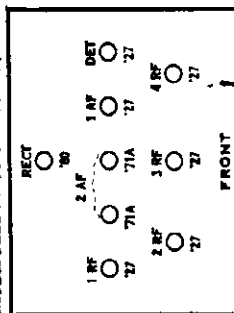
The suggested output meter is of the type suitable for connection across the speaker voice coil. The 1st detector control grid must be disconnected for the IF trimmer adjustments and the oscillator "A" lead is connected to the 1st detector control grid cap upon the tube.

The variable gang condenser compensators for the model 45 are located on top of their respective tuning condenser sections. They can be adjusted with a screw driver. The compensator adjusting screws are at ground potential. The adjustment is made at 1400 KC without disturbing the main tuning sections. The suggestion is made to connect the antenna circuit of the receiver through a dummy antenna or a 250 mmfd condenser. The oscillator series condenser is adjusted at 600 KC

The main tuning condenser compensators are located at the top of their main tuning sections in the 48 and 49 models. They can be adjusted with a screw driver and since the screws are at ground potential and insulated screw driver is not required. There are four holes in the overall condenser and tube housing cover. The screw driver is inserted through these holes.

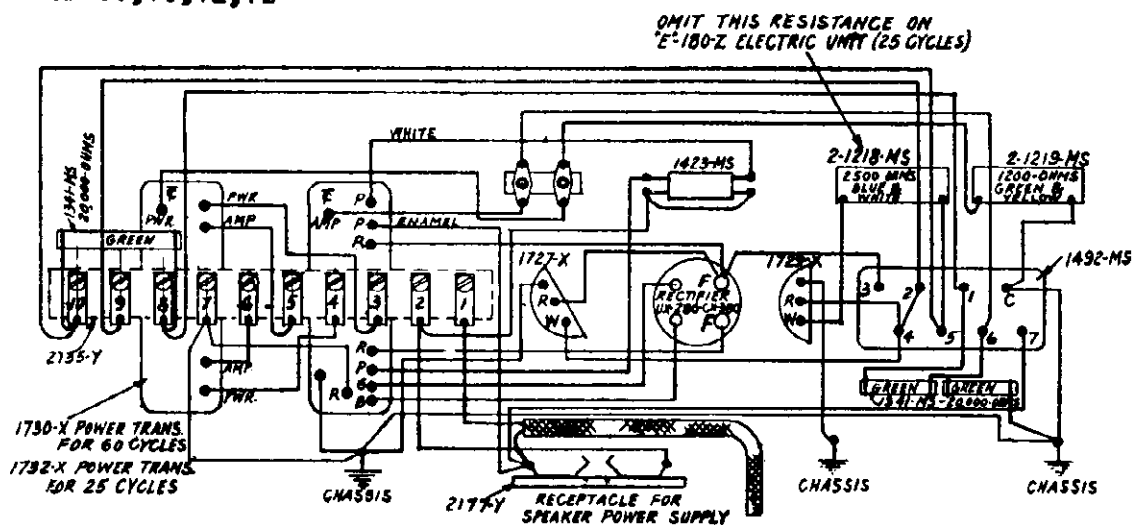
The tuning condenser compensators are adjusted at 1400 KC. The oscillator series condenser is adjusted at 600 KC. The intermediate trimmers are adjusted at 175 KC. Due to the physical location of the oscillator series condenser it is permissible to remove the overall condenser and tube shield housing cover to permit the insertion of the standard #4 socket wrench for adjustment purposes.

The suggestion is made to check the 175 KC adjustment of the test oscillator by beating that signal against one of its harmonics represented by the carrier frequency of a broadcasting station of correct frequency which is tuned in with the receiver operated in normal manner. Some of the harmonics of a 175 KC signal are 1400 KC., 1225 KC., 1050 KC., 875 KC., and 700 KC.



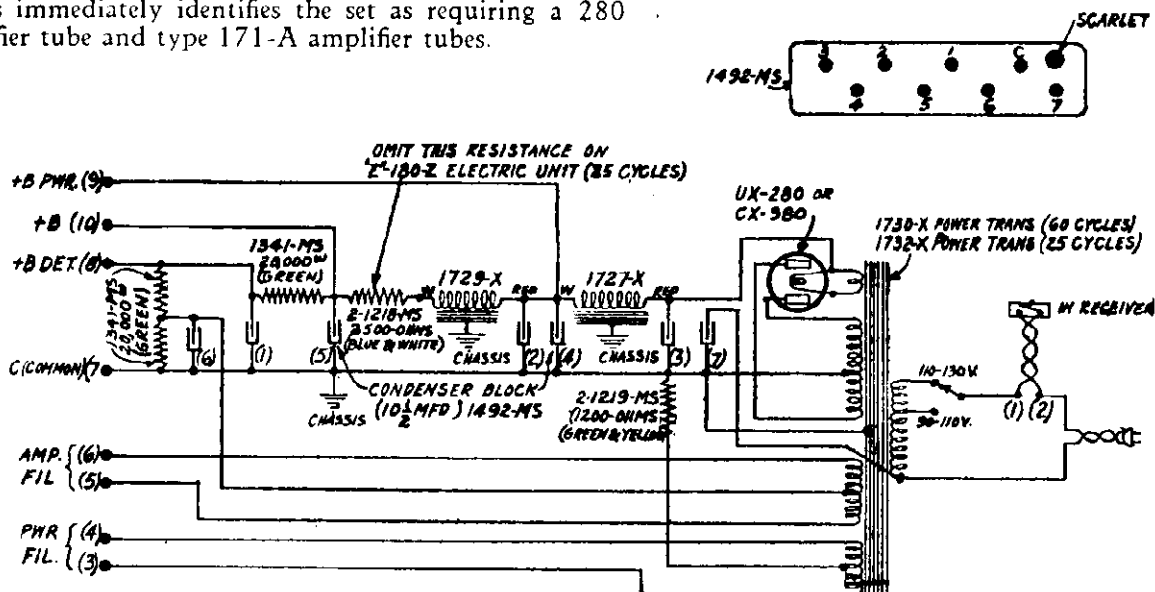
MODEL E-180,E-180Z  
Electric Unit  
for 50,70,71,72

**FADA RADIO & ELECTRIC CORP.**



ACTUAL WIRING DIAGRAM OF "E"-180 & "E"-180-Z ELECTRIC UNIT

Nor should it be a difficult matter to keep in mind that all "E-180" sets can be identified by their having two round cans in the "rear row" (the power pack). This immediately identifies the set as requiring a 280 rectifier tube and type 171-A amplifier tubes.



### SCHEMATIC WIRING DIAGRAM OF 'E'-180 & 'E'-180-Z ELECTRIC UNIT

### ELECTRICAL VALUES

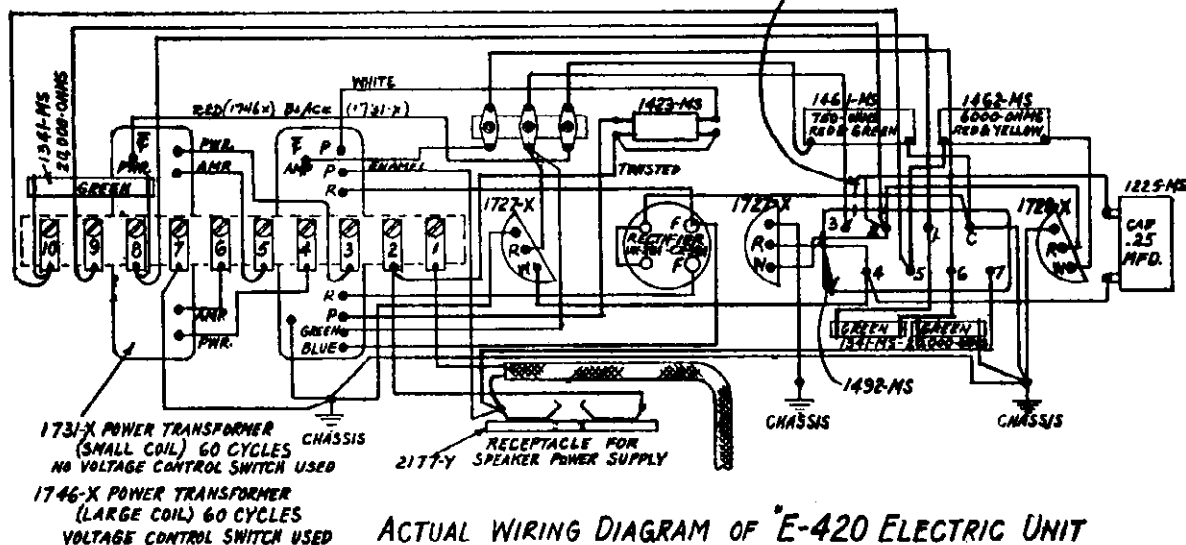
ELECTRIC UNIT TYPE E- 180

1225-MS .25 mfd 400 volts  
1341-MS carbon 20,000 ohms (green)  
1461-MS wire 750 ohms red-green  
1462-MS wire 6000 ohms red-yellow  
1492-MS condenser block 10.5 mfd  
2-1218-MS wire 2500 ohms blue-white  
2-1219-MS wire 1200 ohms green-yellow  
1727-X choke 600 ohms  
1729-X choke 3500 ohms

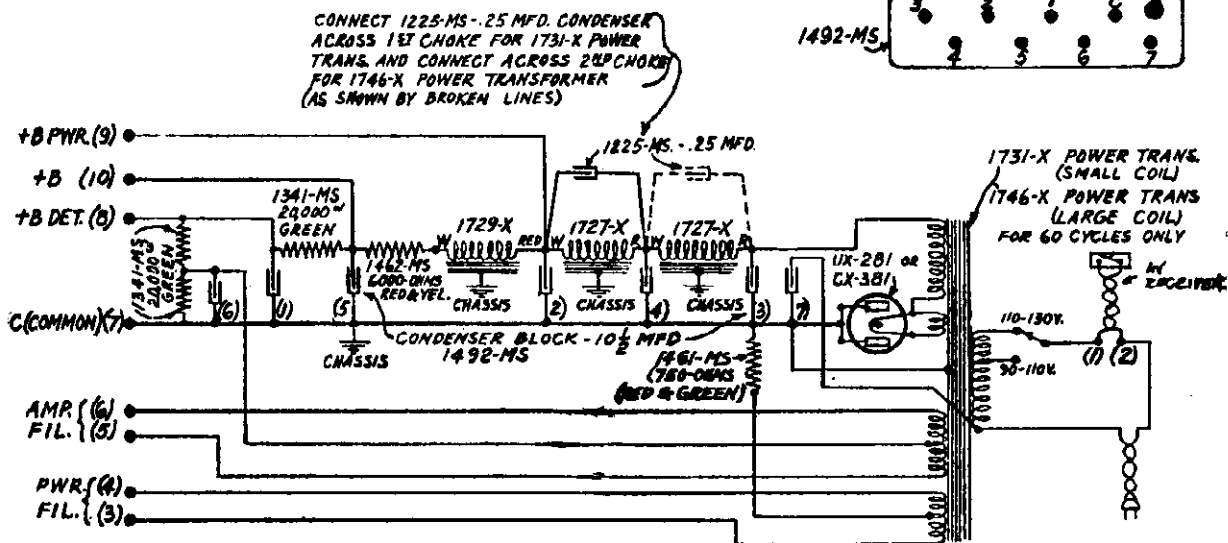
## FADA RADIO &amp; ELECTRIC CORP.

MODEL E-420, E-420Z  
Electric Unit  
for 50, 70, 71, 72

CONNECT \*1225-MS-.25 MFD. CONDENSER  
TO \*3 LUG FOR 1731-X POWER TRANS,  
AND CONNECT \*1225-MS TO \*2 LUG  
FOR 1746-X POWER TRANSFORMER.



Now it should not be a difficult matter to keep in mind that all "E-420" sets can be identified by their having three round cans in the "rear row" (the power pack). This immediately identifies the set as requiring a 281 rectifier tube and type 210 amplifier tubes.



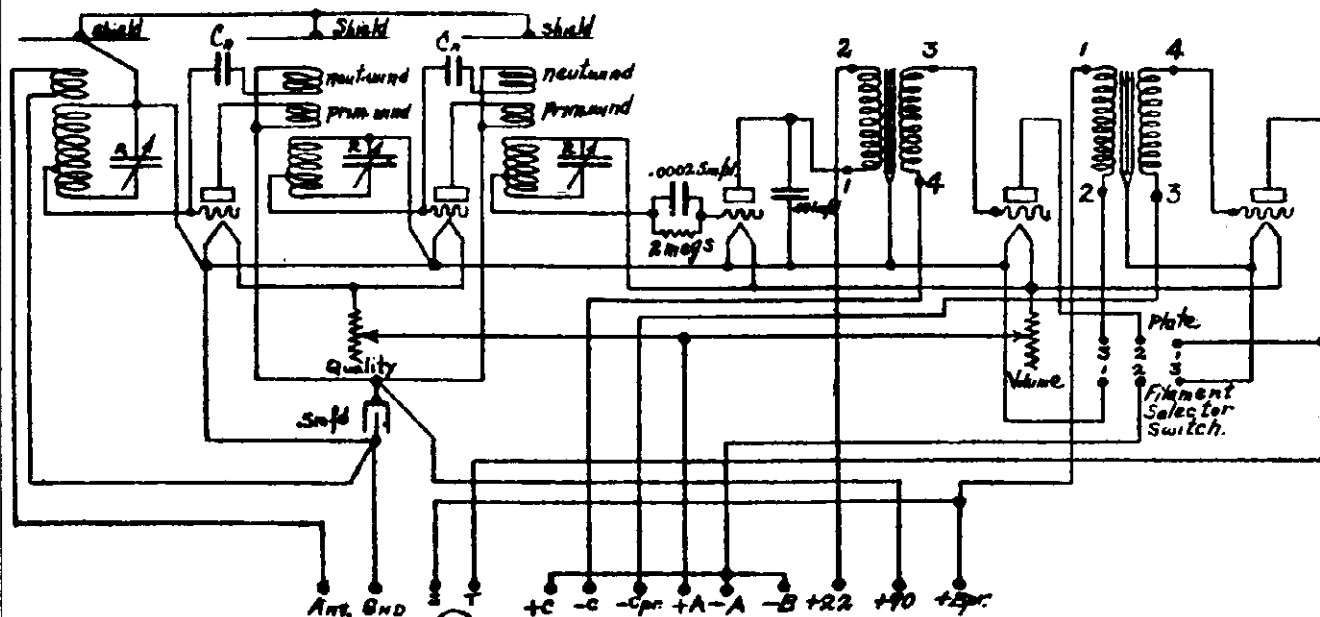
SCHEMATIC WIRING DIAGRAM OF "E-420" ELECTRIC UNIT.

ELECTRICAL VALUES  
ELECTRIC UNIT TYPE E-420

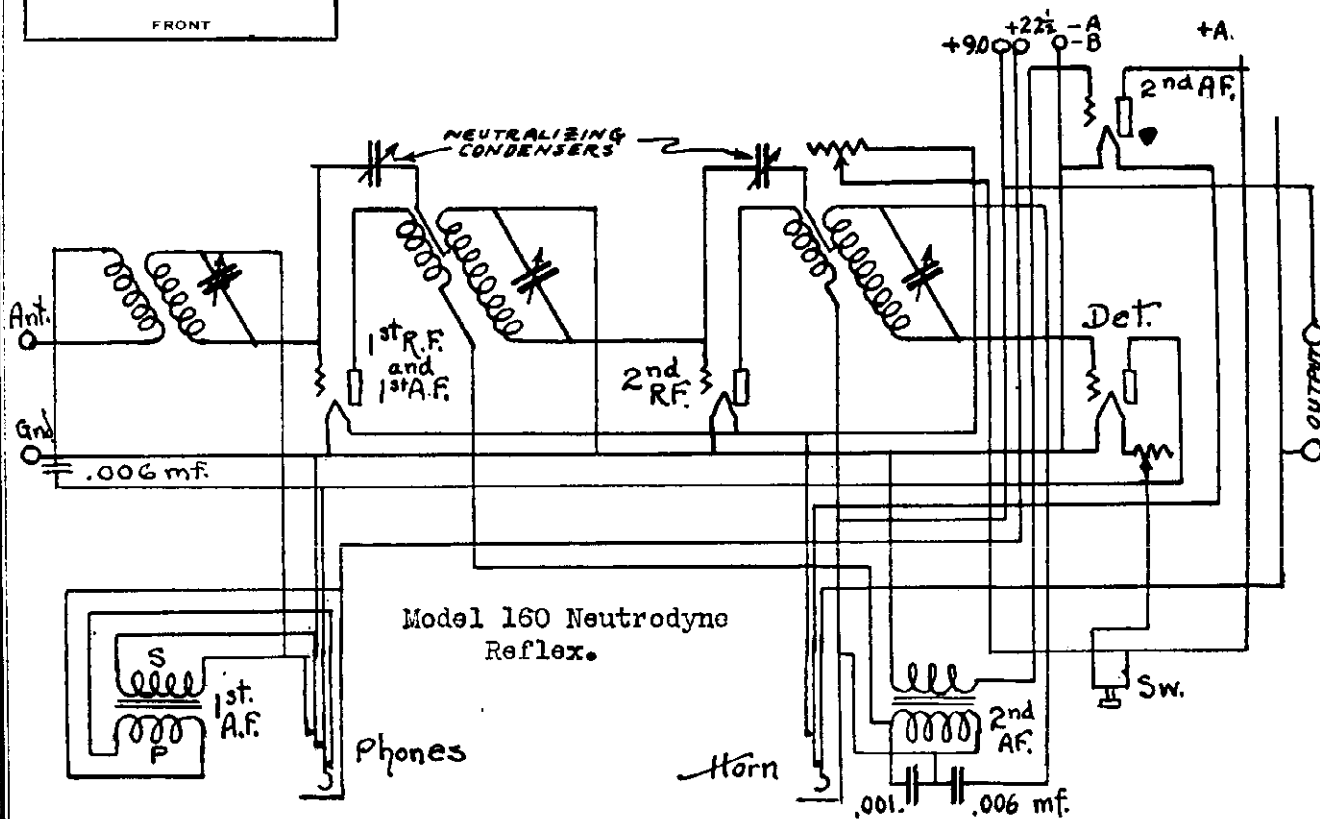
1225-MS	.25 mfd 400 volts	2-1218-MS	wire 2500 ohms blue-white
1341-MS	carbon 20,000 ohms green	2-1219-MS	wire 1200 ohms green-yellow
1461-MS	wire 750 ohms red-green	1727-X	choke 600 ohms
1462-MS	wire 8000 ohms red-yellow	1729-X	choke 3500 ohms
1492-MS	condenser block 10.5 mfd		

MODEL 192-A Receiver  
192-S  
192-BS Units  
MODEL 160 Neutrodyne

FADA RADIO & ELECTRIC CORP.

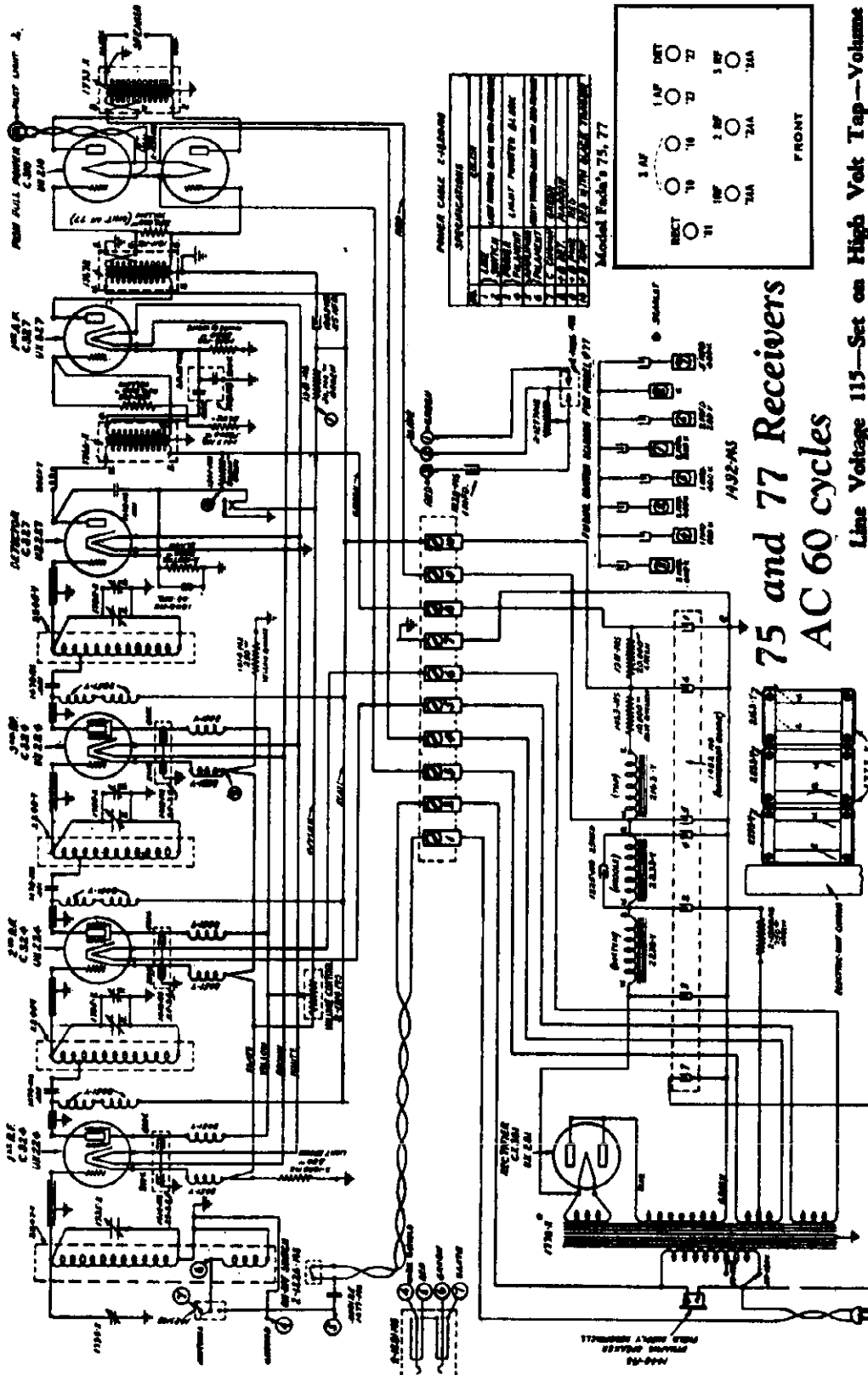


Model 192-A Receiver, 192-S and 192-BS Units



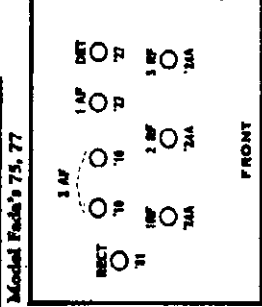
# FADA RADIO & ELECTRIC CORP.

**MODEL 75, 77**  
**Schematic**  
**Voltage**  
**Notes**



POWER CABLE S-100000  
 SPECIFICATIONS

NO.	TYPE	VALUE	UNIT
1	1.5M	1.5	M
2	1.5M	1.5	M
3	1.5M	1.5	M
4	1.5M	1.5	M
5	1.5M	1.5	M
6	1.5M	1.5	M
7	1.5M	1.5	M
8	1.5M	1.5	M
9	1.5M	1.5	M
10	1.5M	1.5	M
11	1.5M	1.5	M
12	1.5M	1.5	M
13	1.5M	1.5	M
14	1.5M	1.5	M
15	1.5M	1.5	M
16	1.5M	1.5	M
17	1.5M	1.5	M
18	1.5M	1.5	M
19	1.5M	1.5	M
20	1.5M	1.5	M
21	1.5M	1.5	M
22	1.5M	1.5	M
23	1.5M	1.5	M
24	1.5M	1.5	M
25	1.5M	1.5	M
26	1.5M	1.5	M
27	1.5M	1.5	M
28	1.5M	1.5	M
29	1.5M	1.5	M
30	1.5M	1.5	M
31	1.5M	1.5	M
32	1.5M	1.5	M
33	1.5M	1.5	M
34	1.5M	1.5	M
35	1.5M	1.5	M
36	1.5M	1.5	M
37	1.5M	1.5	M
38	1.5M	1.5	M
39	1.5M	1.5	M
40	1.5M	1.5	M
41	1.5M	1.5	M
42	1.5M	1.5	M
43	1.5M	1.5	M
44	1.5M	1.5	M
45	1.5M	1.5	M
46	1.5M	1.5	M
47	1.5M	1.5	M
48	1.5M	1.5	M
49	1.5M	1.5	M
50	1.5M	1.5	M
51	1.5M	1.5	M
52	1.5M	1.5	M
53	1.5M	1.5	M
54	1.5M	1.5	M
55	1.5M	1.5	M
56	1.5M	1.5	M
57	1.5M	1.5	M
58	1.5M	1.5	M
59	1.5M	1.5	M
60	1.5M	1.5	M
61	1.5M	1.5	M
62	1.5M	1.5	M
63	1.5M	1.5	M
64	1.5M	1.5	M
65	1.5M	1.5	M
66	1.5M	1.5	M
67	1.5M	1.5	M
68	1.5M	1.5	M
69	1.5M	1.5	M
70	1.5M	1.5	M
71	1.5M	1.5	M
72	1.5M	1.5	M
73	1.5M	1.5	M
74	1.5M	1.5	M
75	1.5M	1.5	M
76	1.5M	1.5	M
77	1.5M	1.5	M
78	1.5M	1.5	M
79	1.5M	1.5	M
80	1.5M	1.5	M
81	1.5M	1.5	M
82	1.5M	1.5	M
83	1.5M	1.5	M
84	1.5M	1.5	M
85	1.5M	1.5	M
86	1.5M	1.5	M
87	1.5M	1.5	M
88	1.5M	1.5	M
89	1.5M	1.5	M
90	1.5M	1.5	M
91	1.5M	1.5	M
92	1.5M	1.5	M
93	1.5M	1.5	M
94	1.5M	1.5	M
95	1.5M	1.5	M
96	1.5M	1.5	M
97	1.5M	1.5	M
98	1.5M	1.5	M
99	1.5M	1.5	M
100	1.5M	1.5	M



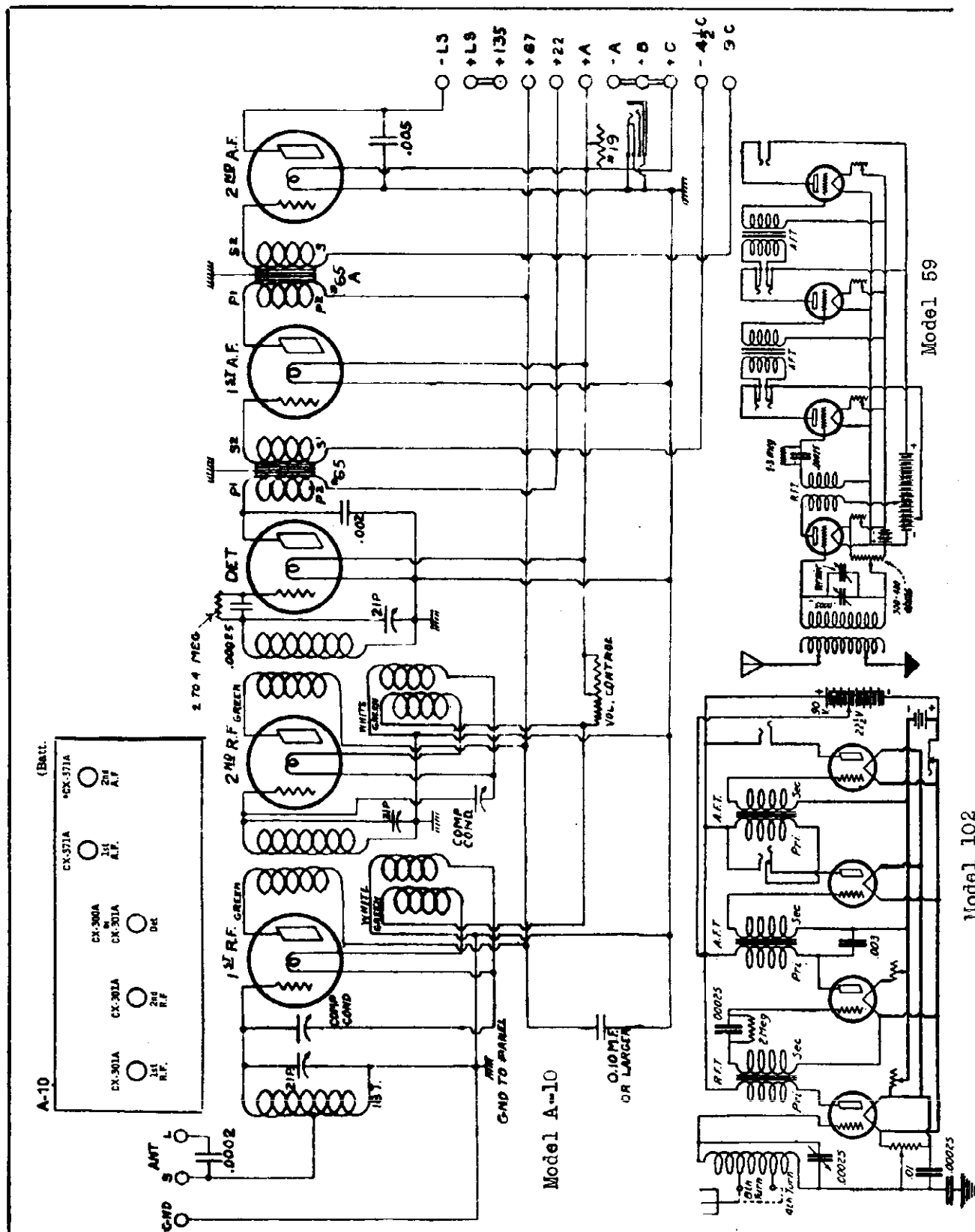
## 75 and 77 Receivers AC 60 cycles

Line Voltage 115—Set on High Volt Tap—Volume Control Position Max  
 Note: When taking screen grid tube readings control grid should be grounded.

**COMPENSATING INSTRUCTIONS FOR MODELS 75 AND 77**  
 The compensating condenser is located beneath the small hole in the left side of each RF shield can (facing the front of the set) and may be adjusted with a screw driver. There is no compensating condenser in the shield can to the extreme left; its function being performed by the antenna vernier.

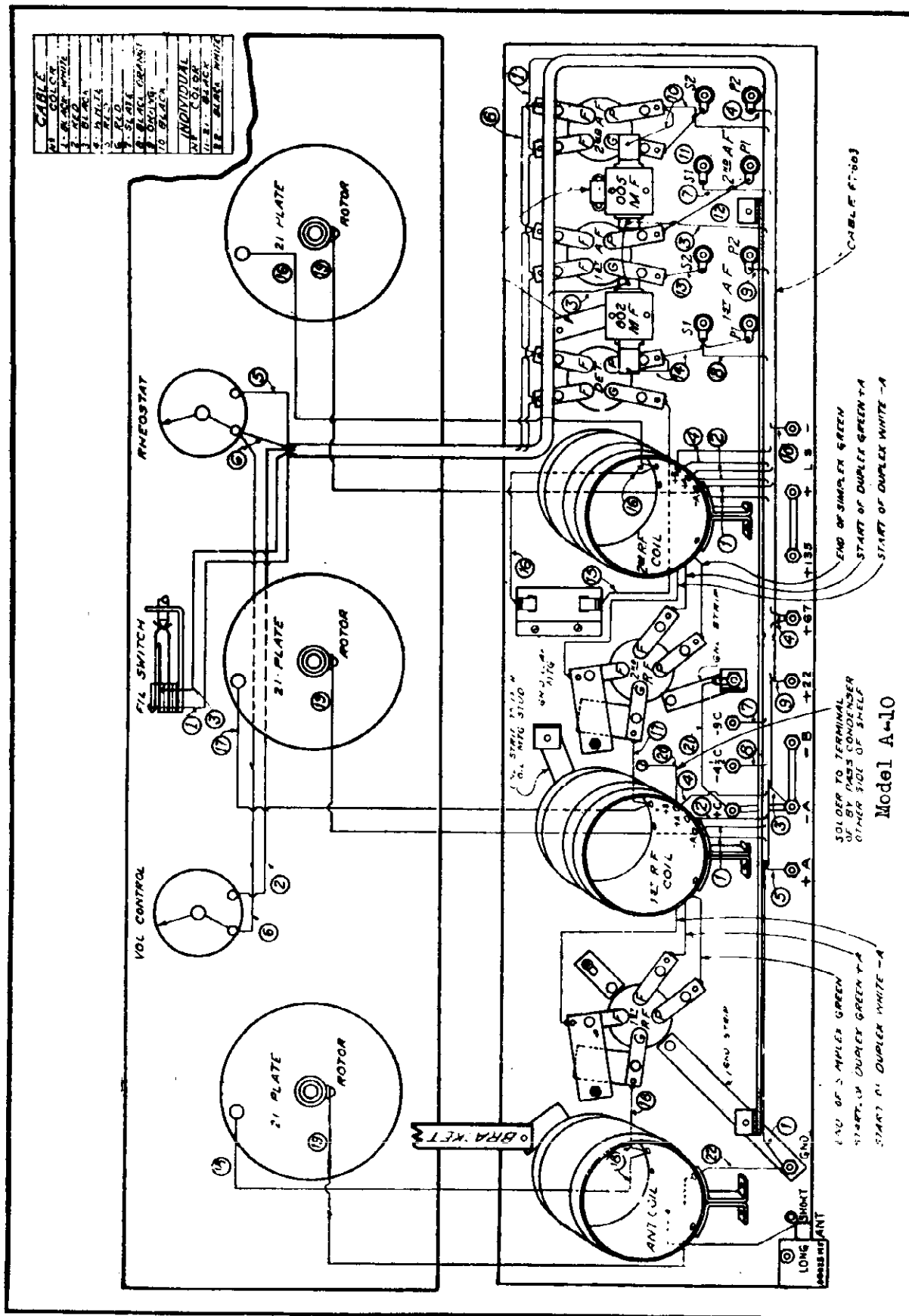
RESISTANCE VALUES IN OHMS OF SET

NO.	TYPE	VALUE	UNIT
1	1.5M	1.5	M
2	1.5M	1.5	M
3	1.5M	1.5	M
4	1.5M	1.5	M
5	1.5M	1.5	M
6	1.5M	1.5	M
7	1.5M	1.5	M
8	1.5M	1.5	M
9	1.5M	1.5	M
10	1.5M	1.5	M
11	1.5M	1.5	M
12	1.5M	1.5	M
13	1.5M	1.5	M
14	1.5M	1.5	M
15	1.5M	1.5	M
16	1.5M	1.5	M
17	1.5M	1.5	M
18	1.5M	1.5	M
19	1.5M	1.5	M
20	1.5M	1.5	M
21	1.5M	1.5	M
22	1.5M	1.5	M
23	1.5M	1.5	M
24	1.5M	1.5	M
25	1.5M	1.5	M
26	1.5M	1.5	M
27	1.5M	1.5	M
28	1.5M	1.5	M
29	1.5M	1.5	M
30	1.5M	1.5	M
31	1.5M	1.5	M
32	1.5M	1.5	M
33	1.5M	1.5	M
34	1.5M	1.5	M
35	1.5M	1.5	M
36	1.5M	1.5	M
37	1.5M	1.5	M
38	1.5M	1.5	M
39	1.5M	1.5	M
40	1.5M	1.5	M
41	1.5M	1.5	M
42	1.5M	1.5	M
43	1.5M	1.5	M
44	1.5M	1.5	M
45	1.5M	1.5	M
46	1.5M	1.5	M
47	1.5M	1.5	M
48	1.5M	1.5	M
49	1.5M	1.5	M
50	1.5M	1.5	M
51	1.5M	1.5	M
52	1.5M	1.5	M
53	1.5M	1.5	M
54	1.5M	1.5	M
55	1.5M	1.5	M
56	1.5M	1.5	M
57	1.5M	1.5	M
58	1.5M	1.5	M
59	1.5M	1.5	M
60	1.5M	1.5	M
61	1.5M	1.5	M
62	1.5M	1.5	M
63	1.5M	1.5	M
64	1.5M	1.5	M
65	1.5M	1.5	M
66	1.5M	1.5	M
67	1.5M	1.5	M
68	1.5M	1.5	M
69	1.5M	1.5	M
70	1.5M	1.5	M
71	1.5M	1.5	M
72	1.5M	1.5	M
73	1.5M	1.5	M
74	1.5M	1.5	M
75	1.5M	1.5	M
76	1.5M	1.5	M
77	1.5M	1.5	M
78	1.5M	1.5	M
79	1.5M	1.5	M
80	1.5M	1.5	M
81	1.5M	1.5	M
82	1.5M	1.5	M
83	1.5M	1.5	M
84	1.5M	1.5	M
85	1.5M	1.5	M
86	1.5M	1.5	M
87	1.5M	1.5	M
88	1.5M	1.5	M
89	1.5M	1.5	M
90	1.5M	1.5	M
91	1.5M	1.5	M
92	1.5M	1.5	M
93	1.5M	1.5	M
94	1.5M	1.5	M
95	1.5M	1.5	M
96	1.5M	1.5	M
97	1.5M	1.5	M
98	1.5M	1.5	M
99	1.5M	1.5	M
100	1.5M	1.5	M



MODEL A-10  
Wiring Diagram

**FEDERAL RADIO CORP.**

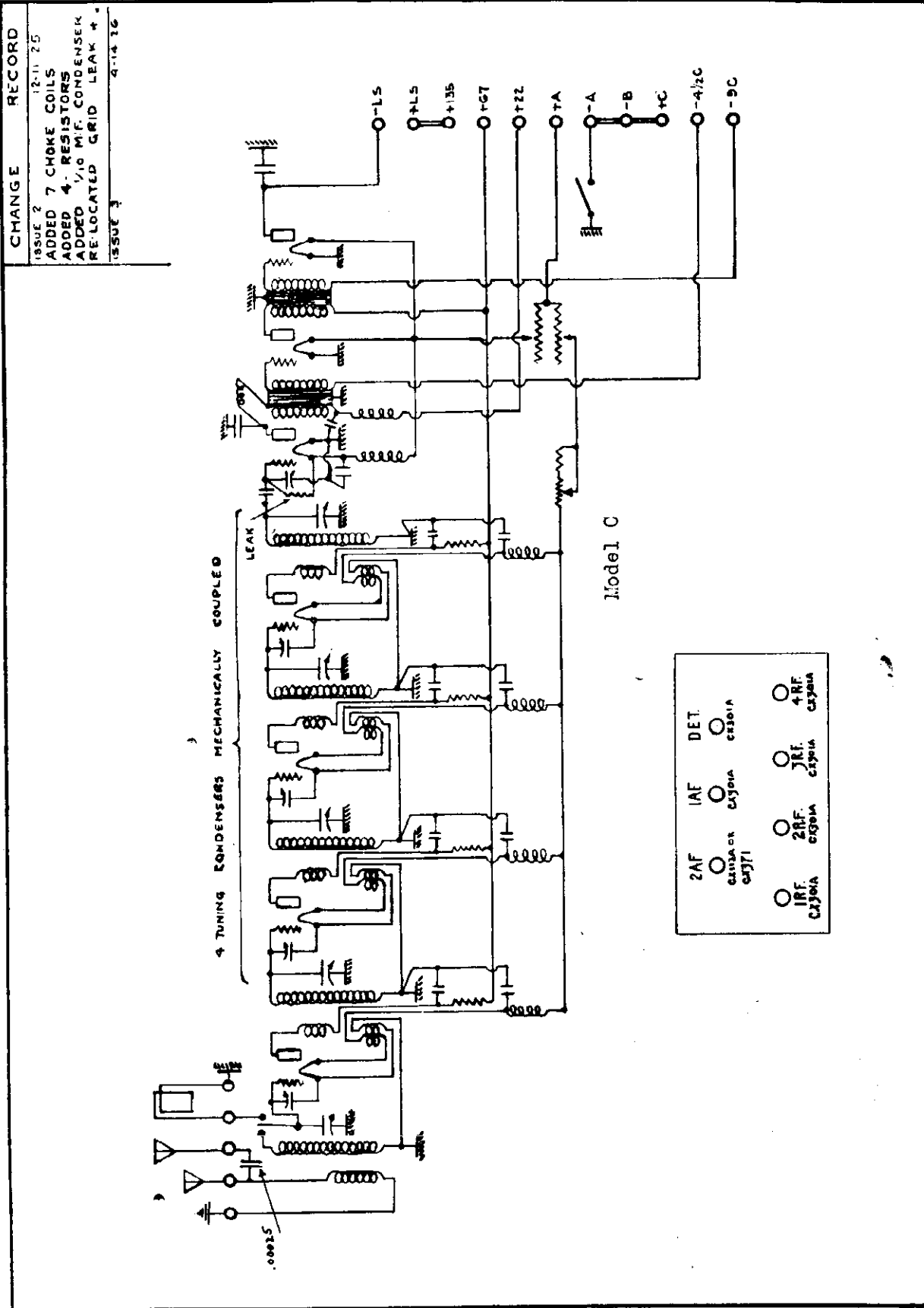






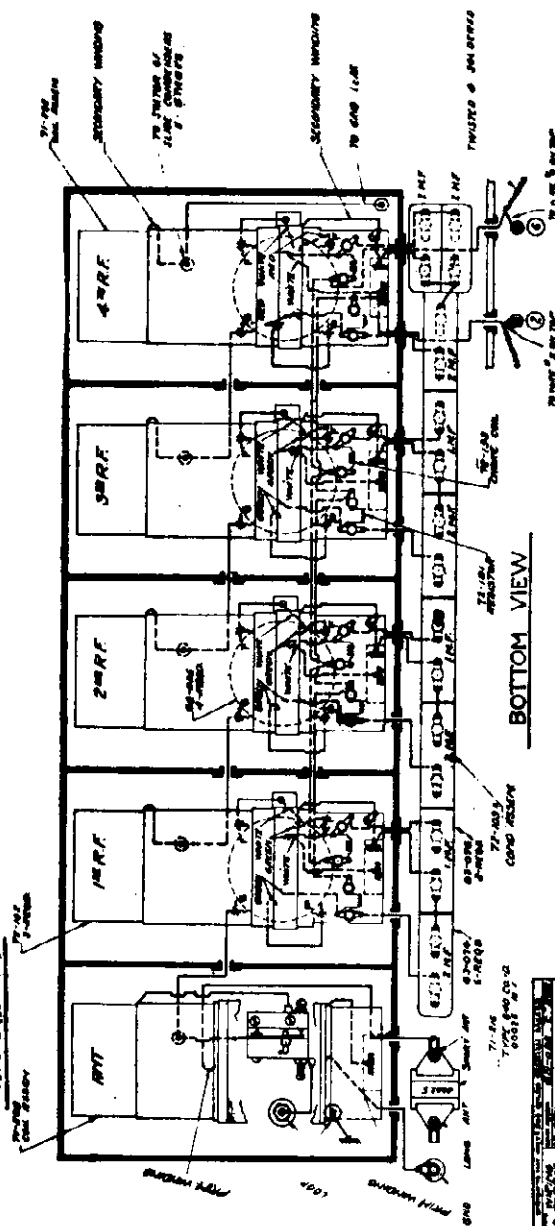
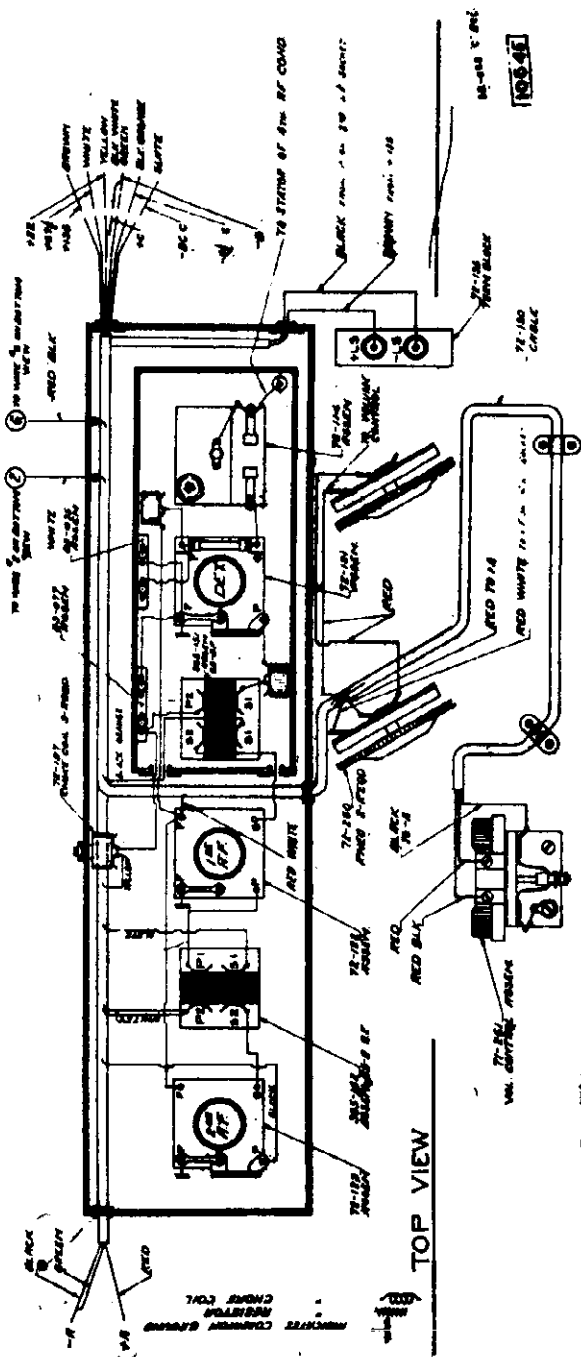
# FEDERAL RADIO CORP.

MODEL C  
Schematic



MODEL C  
Wiring Diagram

FEDERAL RADIO CORP.

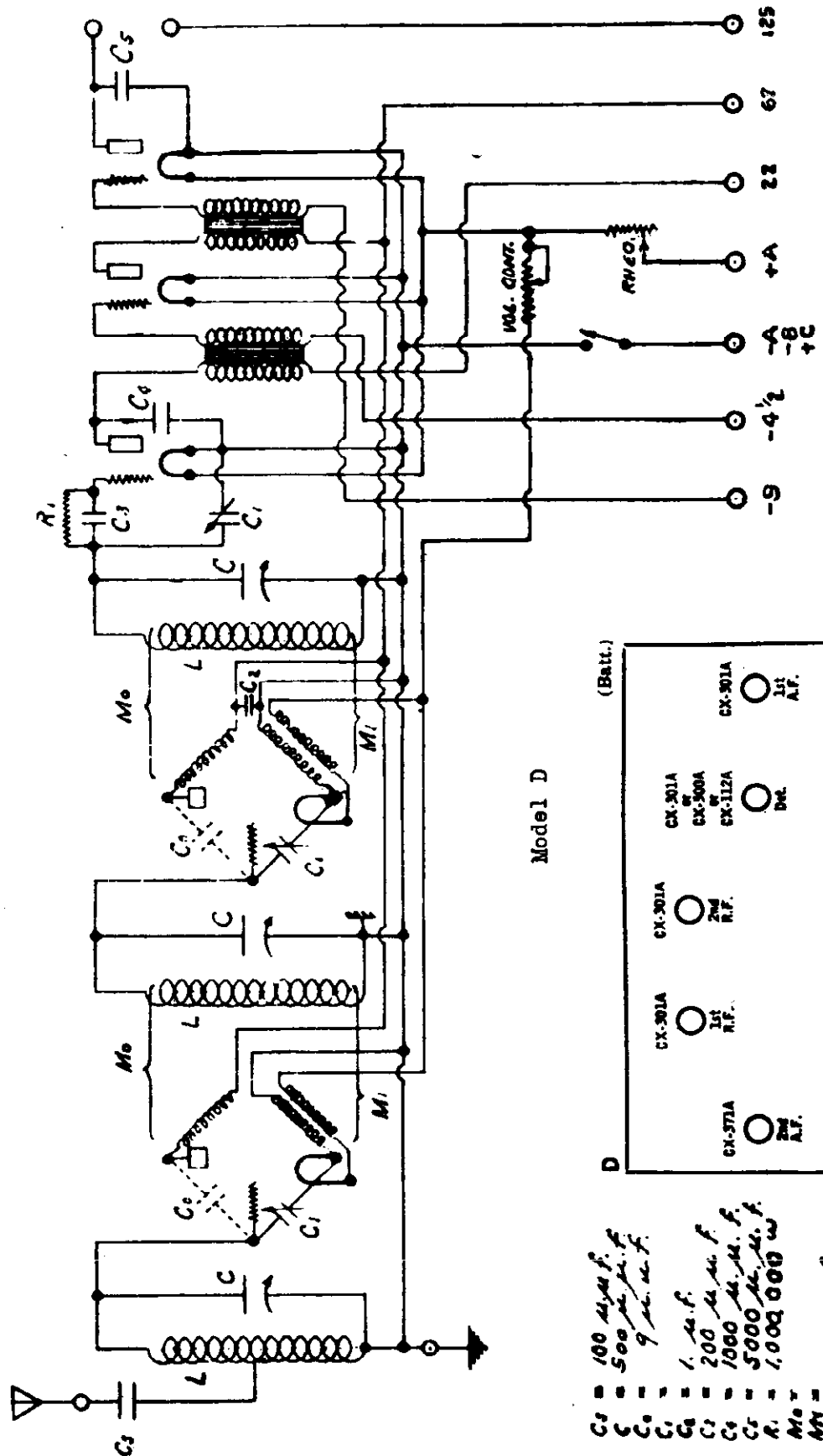


Model C

DATE	10-6-4
BY	W. J. B.
CHECKED BY	W. J. B.
APPROVED BY	W. J. B.
REVISION	1064

FEDERAL RADIO CORP.

MODEL D, CODE 68-070  
Schematic

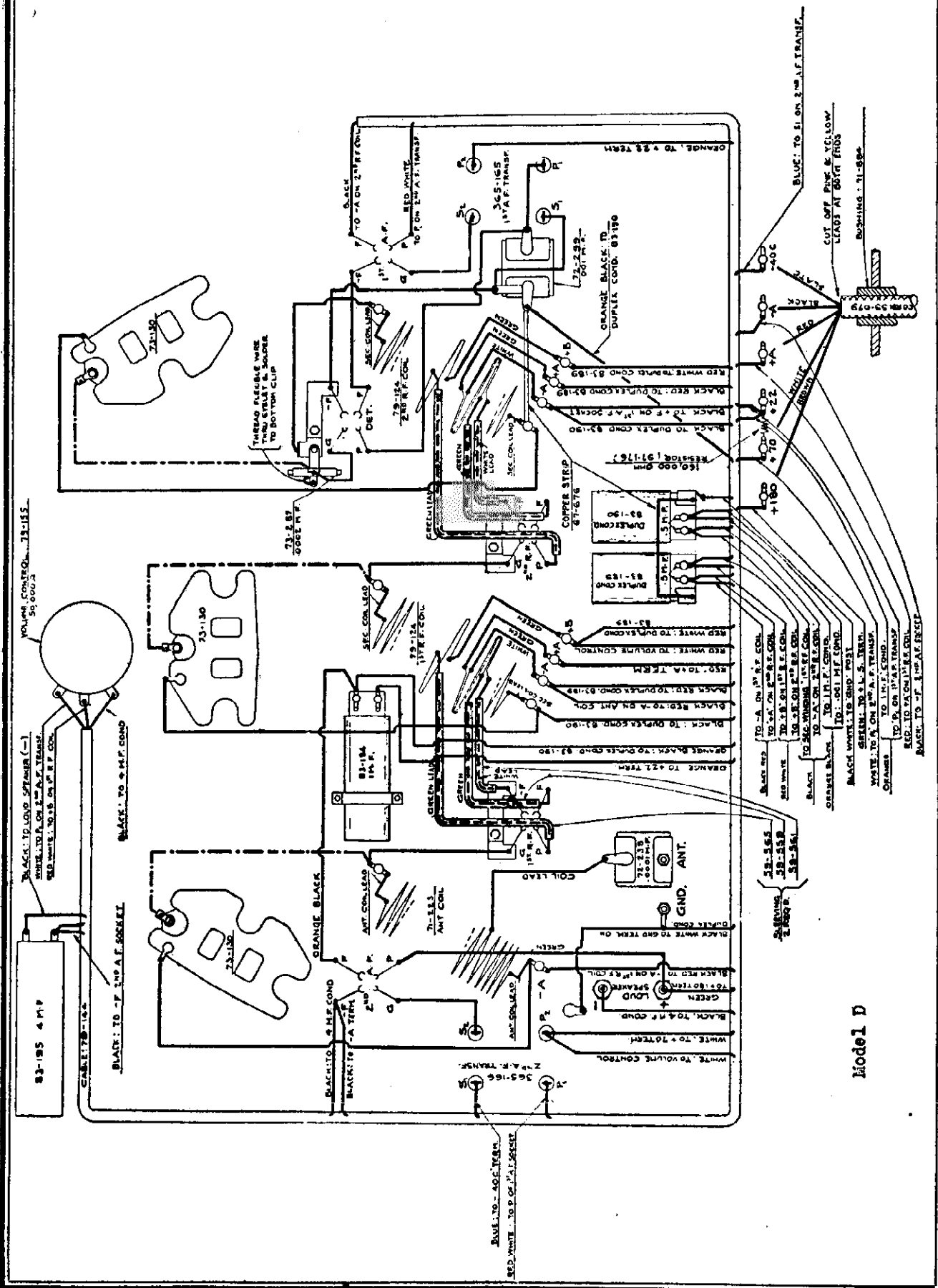




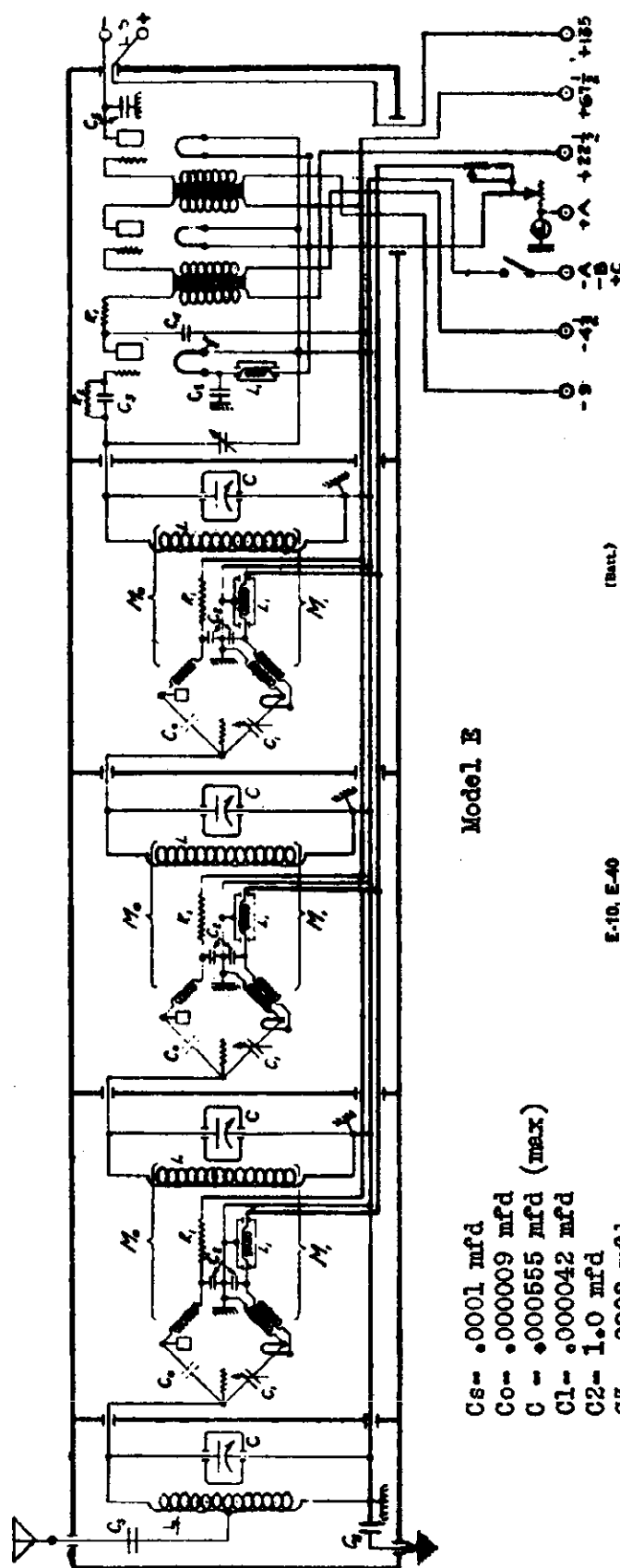


MODEL D(60 Cycle)  
Receiver Chassis

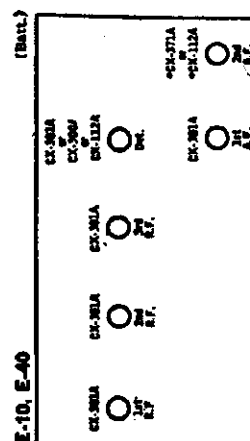
**FEDERAL RADIO CORP.**



## FEDERAL RADIO CORP.

MODEL E CODE 68-060  
Schematic

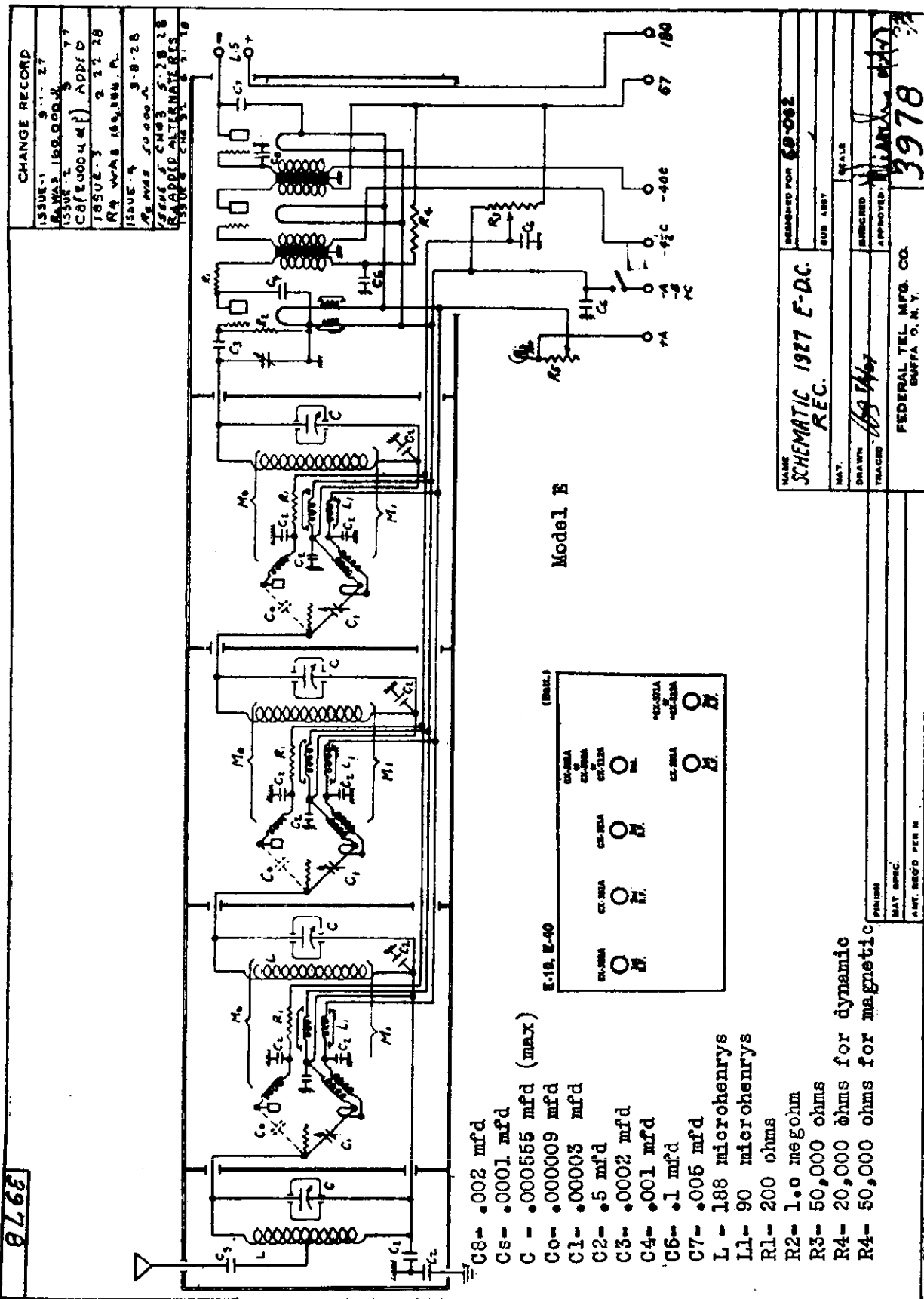
Model E



- Cs = .0001 mfd  
 Co = .000009 mfd (max)  
 C = .000555 mfd  
 C1 = .000042 mfd  
 C2 = 1.0 mfd  
 C3 = .0002 mfd  
 C4 = .001 mfd  
 C5 = .005 mfd  
 Mo = 25.5 microhenrys  
 M1 = 5.25 microhenrys  
 R1 = 200 ohms (low capacity)  
 R2 = 1.0 megohm  
 L = 100 microhenry  
 L1 = 360 microhenry

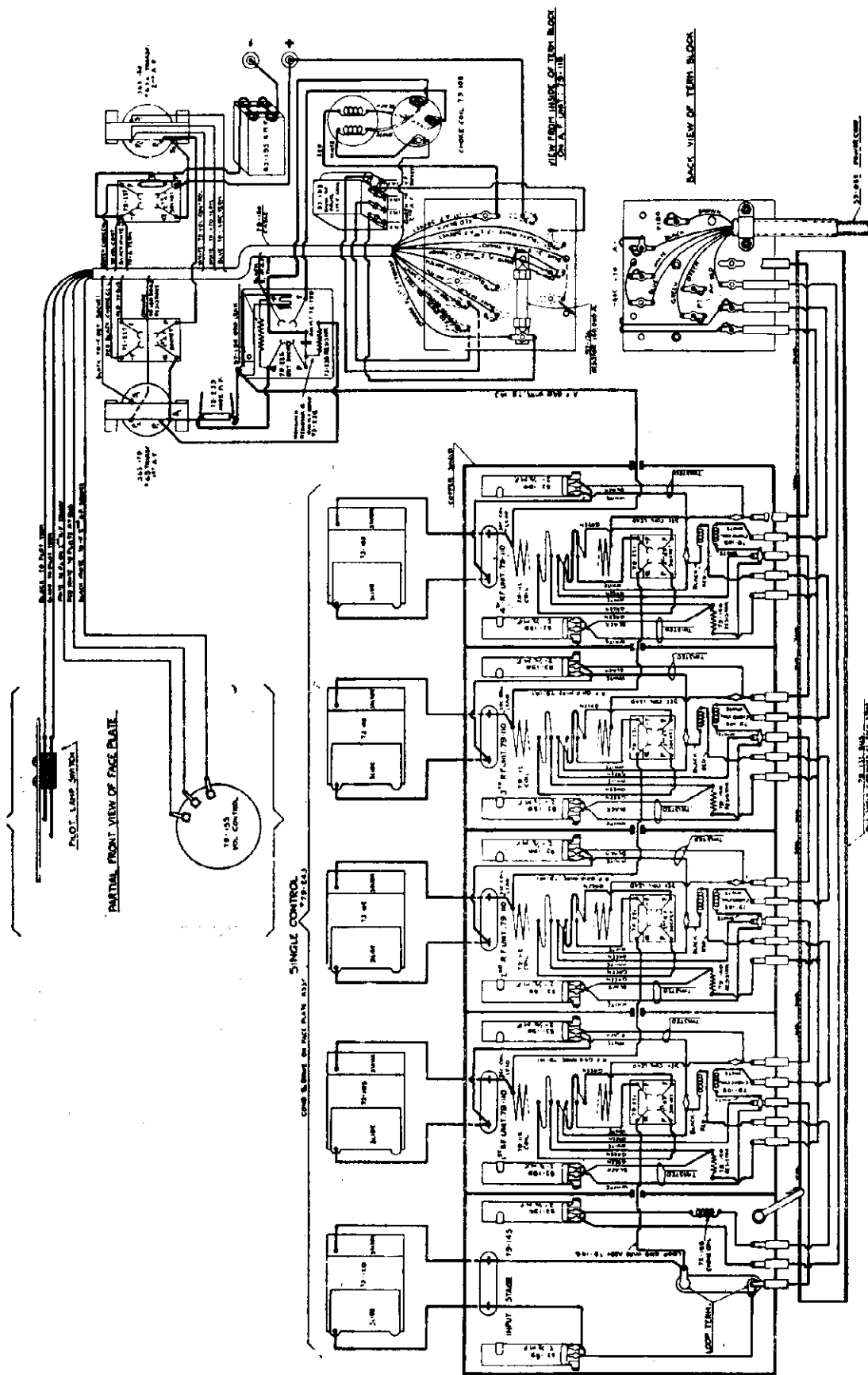
MODEL E DC  
Schematic

FEDERAL RADIO CORP.



# FEDERAL RADIO CORP.

MODEL F, CODE 79-080  
Receiver Chassis



Model F Receiver View

For Power Unit Chassis Wiring  
See Index

GROUND TO FRAME

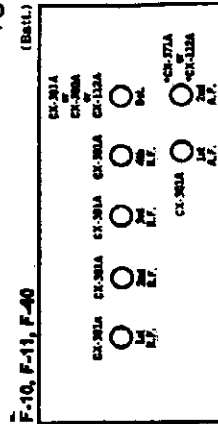
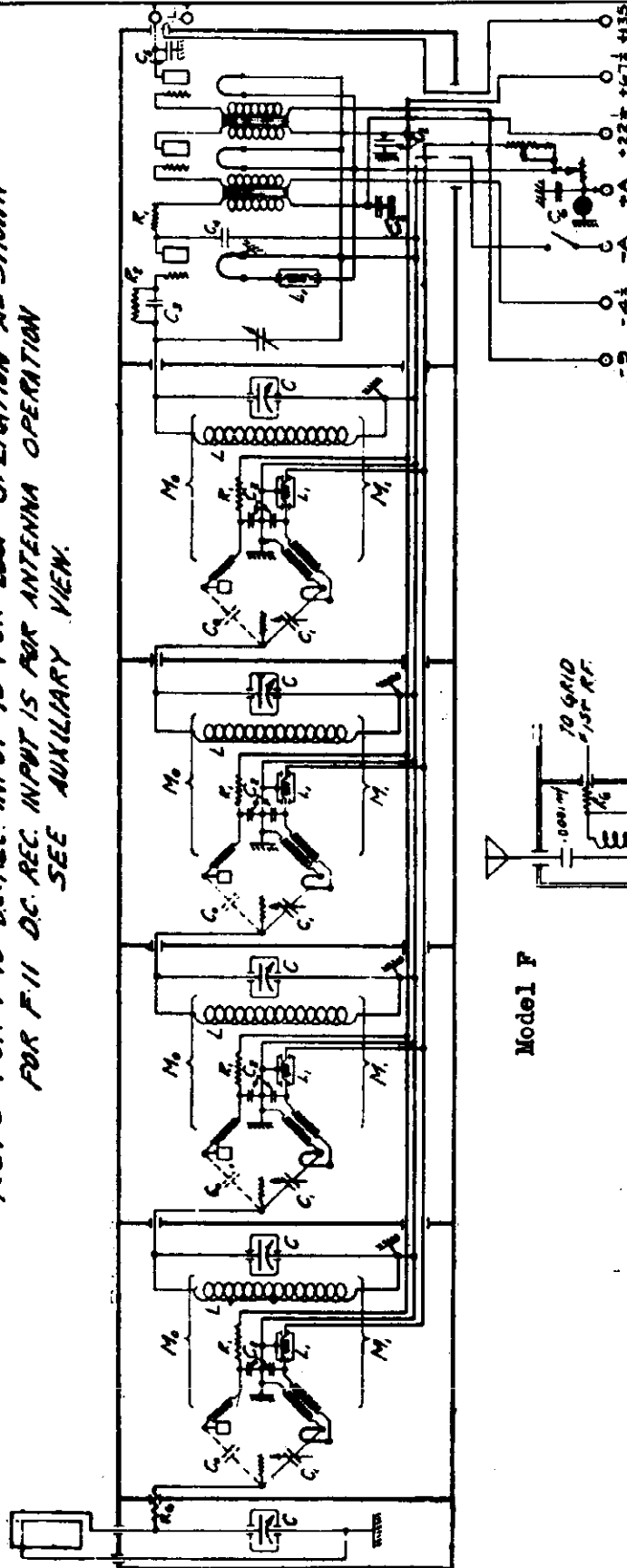


# FEDERAL RADIO CORP.

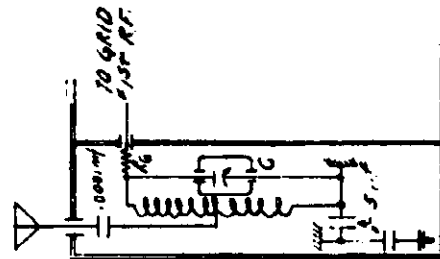
MODEL F-10 DC  
F-11 DC

3964

NOTE FOR F-10 DC REC. INPUT IS FOR LOOP OPERATION AS SHOWN  
FOR F-11 DC REC. INPUT IS FOR ANTENNA OPERATION  
SEE AUXILIARY VIEW.



6X300 tubes with a 6X300 in socket No. 7 may be used  
When storage battery or eliminator operation is not pre-  
ferred.



Model F

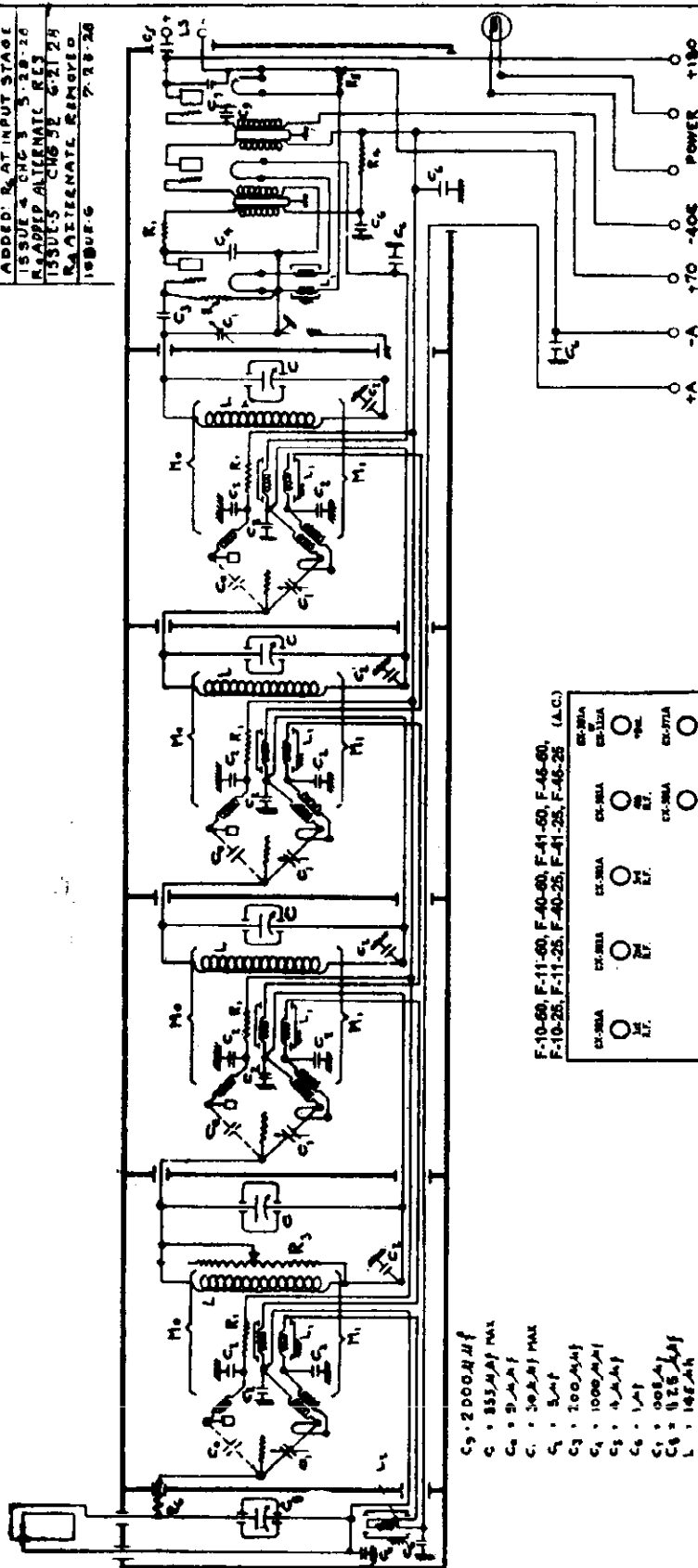
- L = 100  $\mu$ H
- C = 500  $\mu$ F (max)
- C<sub>1</sub> = 5
- C<sub>2</sub> = 45
- M<sub>0</sub> = 86.5  $\mu$ H
- M<sub>1</sub> = 5.25  $\mu$ H
- C<sub>3</sub> = 1  $\mu$ F
- R<sub>1</sub> = 200  $\Omega$  (Very Low Resistance)
- R<sub>2</sub> = 1,000,000  $\Omega$
- C<sub>4</sub> = 500  $\mu$ F
- C<sub>5</sub> = 1,000  $\mu$ F
- C<sub>6</sub> = 5,000  $\mu$ F
- L<sub>1</sub> = 300  $\mu$ H
- C<sub>7</sub> = 2  $\mu$ F
- R<sub>3</sub> = 500  $\Omega$

1.25  $\mu$ S - 4 10-3 CB  
ANT. INPUT ADDED FOR F-11 DC  
WINDING - 2 0-21-2.8  
ADDED 86 TO 1000  $\mu$ F  
RECU-2 5-10-2.6  
C<sub>1</sub> Transformed from  
CALCULATED 10-2.8  $\mu$ F

MODEL F (25 Cycle)

FEDERAL RADIO CORP.

CHANGE RECORD	
ISSUE 1	10-28-37
C <sub>9</sub> (2000 μf) ADDED	
ISSUE 2	2-22-38
R <sub>4</sub> WAS 150,000 Ω	
ISSUE 3	8-8-38
Capacitor (150 μf) ADDED AT INPUT STAGE	
ISSUE 4	5-28-38
REMOVED ALTERNATE RES	
ISSUE 5	6-21-38
REMOVED ALTERNATE RES	
ISSUE 6	7-28-38



F-10-60, F-11-60, F-40-60, F-41-60, F-48-60, F-10-28, F-11-28, F-40-28, F-41-28, F-48-28 (A.C.)

6X4-60A	6X4-60A	6X4-60A	6X4-60A	6X4-60A
6X4-60A	6X4-60A	6X4-60A	6X4-60A	6X4-60A
6X4-60A	6X4-60A	6X4-60A	6X4-60A	6X4-60A
6X4-60A	6X4-60A	6X4-60A	6X4-60A	6X4-60A

- C<sub>9</sub> = 2000 μf
- C<sub>8</sub> = 833 μf MAX
- C<sub>7</sub> = 5 μf
- C<sub>6</sub> = 30 μf MAX
- C<sub>5</sub> = 5 μf
- C<sub>4</sub> = 1000 μf
- C<sub>3</sub> = 100 μf
- C<sub>2</sub> = 1 μf
- C<sub>1</sub> = 0.05 μf
- C<sub>0</sub> = 0.25 μf
- L<sub>1</sub> = 148 μH
- L<sub>2</sub> = 30 μH AT 1000 ~
- L<sub>3</sub> = 300 μH AT 1000 ~
- M<sub>0</sub> = 15 μH AT R.F.
- R<sub>1</sub> = 100 Ω
- R<sub>2</sub> = 1,000,000 Ω
- R<sub>3</sub> = 500,000 Ω
- R<sub>4</sub> = 150,000 Ω
- R<sub>5</sub> = 100 Ω
- R<sub>6</sub> = 900 Ω

NAME \_\_\_\_\_ DESIGNED FOR \_\_\_\_\_

SCHEMATIC FOR 25 CYCLE TYPE F REC. SUB ASSY

DRAWN BY WBS 10/10/37

TRACED BY WBS 7/28/37

SCALE \_\_\_\_\_

CHECKED BY WBS 7/28/37

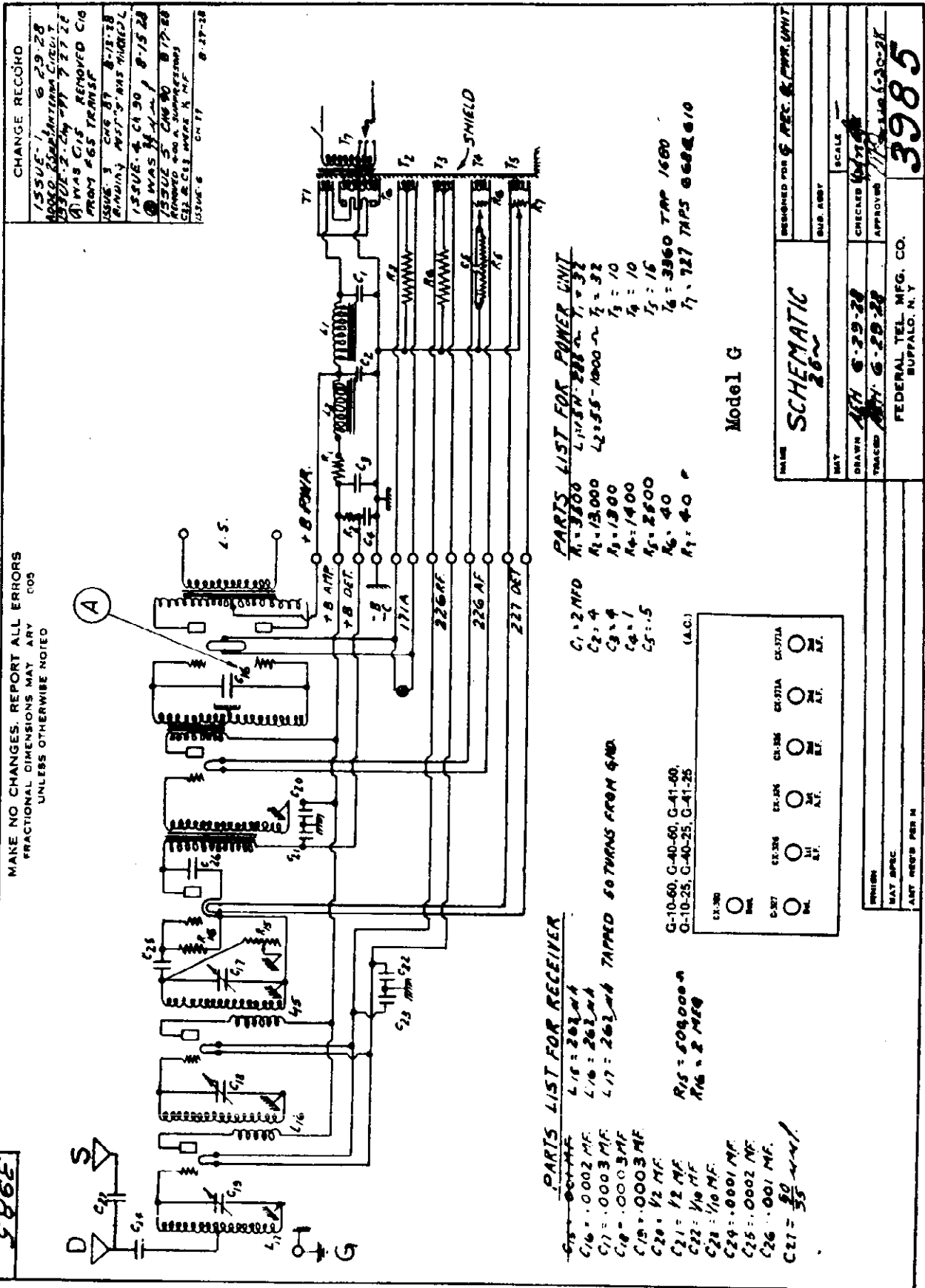
APPROVED BY WBS 7/28/37

FEDERAL TEL. MFG. CO. 3982

BUFFALO, N.Y.

## FEDERAL RADIO CORP.

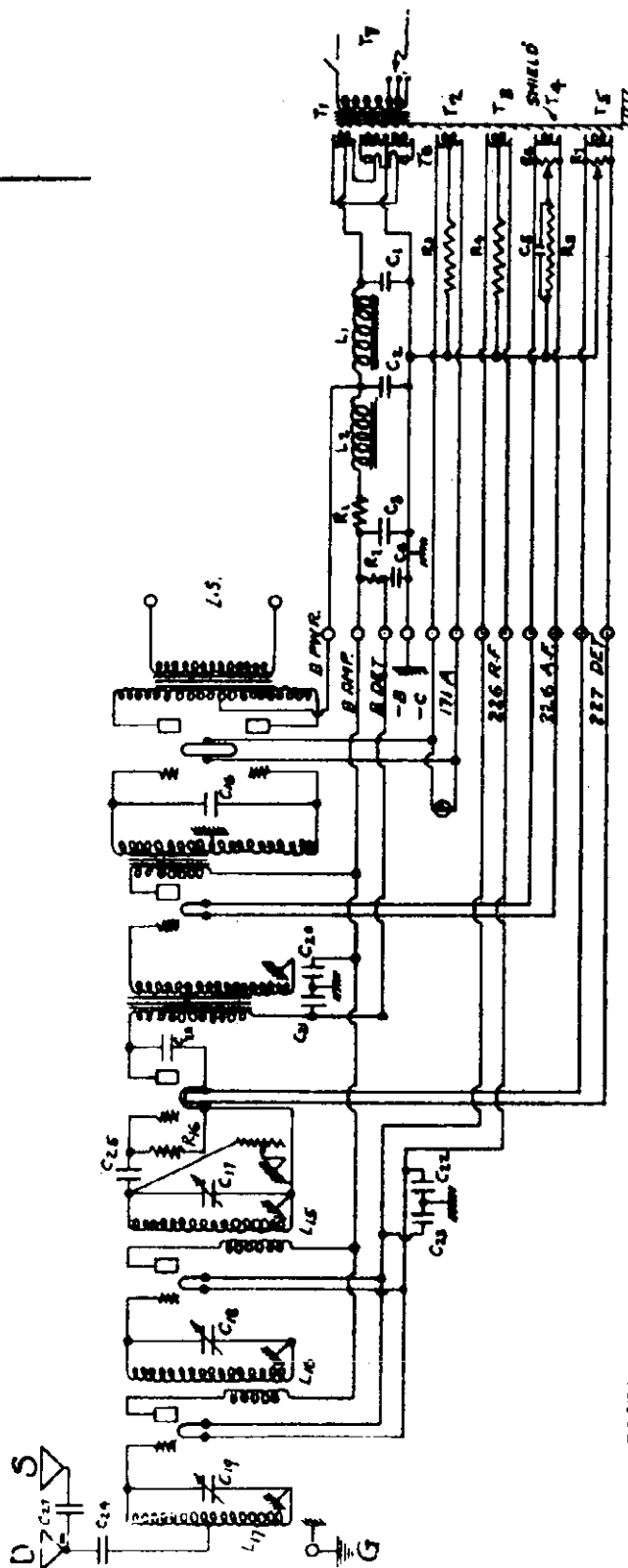
MODEL G (25 Cycle)



MODEL H CODE 71-030

FEDERAL RADIO CORP.

CHANGE RECORD  
13302-1 8-17-24



PARTS LIST FOR REC.

- $C_{16} = .0002 \mu f$   $L_{15} = 262 \mu h$   
 $C_{17} = .0003 \mu f$   $L_{16} = 162 \mu h$   
 $C_{18} = .0003 \mu f$   $L_{17} = 202 \mu h$   
 $C_{19} = .0003 \mu f$   
 $C_{20} = \frac{1}{2} \mu f$   $R_{15} = 500,000 \Omega$   
 $C_{21} = \frac{1}{2} \mu f$   $R_{16} = 2 M\Omega$   
 $C_{22} = \frac{1}{2} \mu f$   
 $C_{23} = \frac{1}{2} \mu f$   
 $C_{24} = .0001 \mu f$   
 $C_{25} = .0002 \mu f$   
 $C_{26} = .001 \mu f$   
 $C_{27} = 50 \mu f$

PARTS LIST FOR POWER UNIT

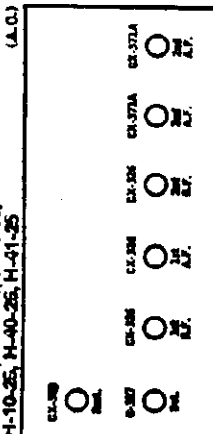
- $C_1 = 1 \mu f$   $R_1 = 3500 \Omega$   $L_1 = 154-285 \mu h$   $T_1 = 24$   
 $C_2 = 1 \mu f$   $R_2 = 13,000 \Omega$   $L_2 = 557-1600 \mu h$   $T_2 = 24$   
 $C_3 = 2 \mu f$   $R_3 = 1300 \Omega$   $T_3 = 8$   
 $C_4 = 1 \mu f$   $R_4 = 1400 \Omega$   $T_4 = 8$   
 $C_5 = \frac{1}{2} \mu f$   $R_5 = 2500 \Omega$   $T_5 = 12$   
 $R_6 = 40 \Omega$   $T_6 = 2590$   
 $R_7 = 40 \Omega$   $T_7 = 573$

VOLTAGES

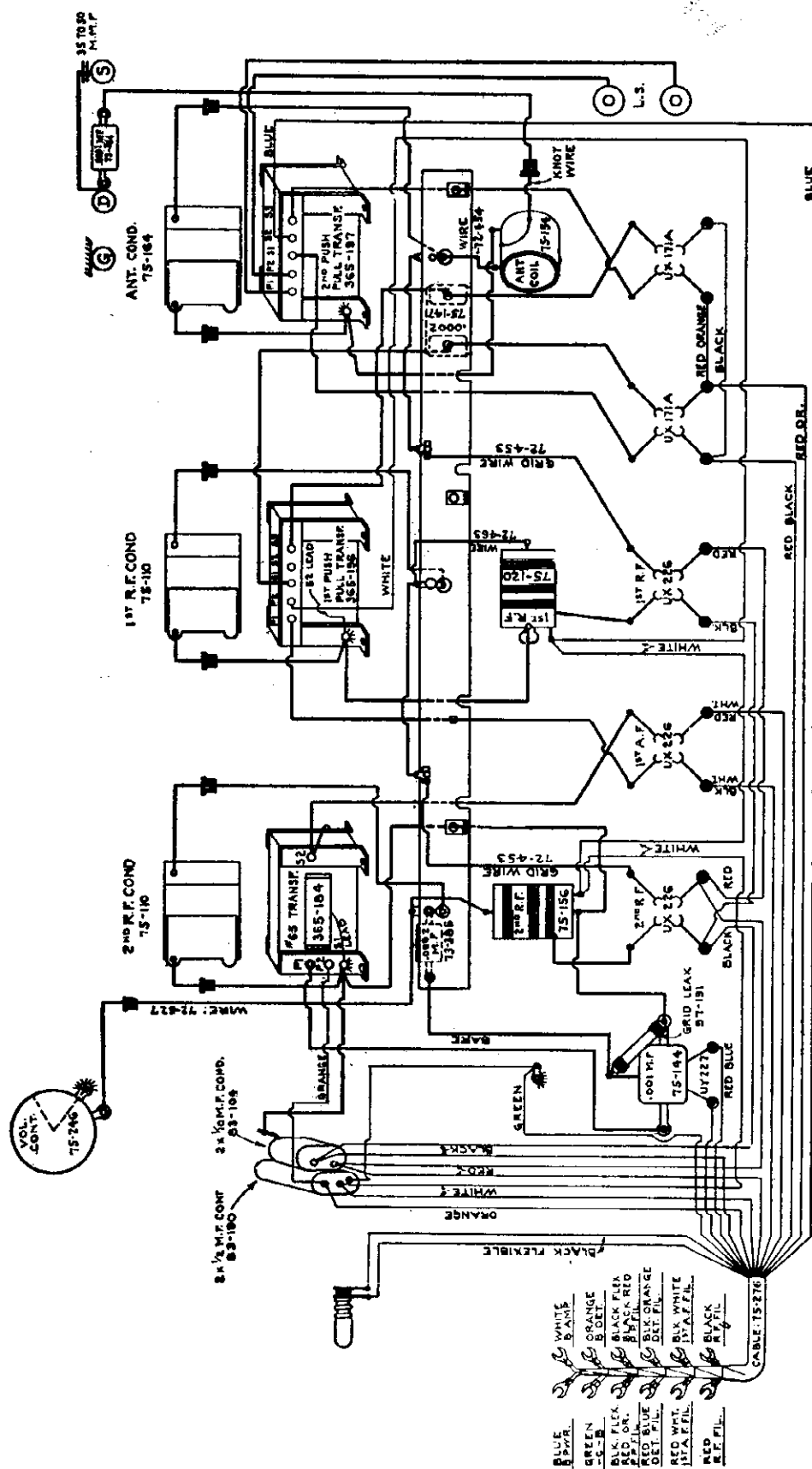
plate voltages are measured between the chassis and the respective tube plates.

- |                    |           |              |            |
|--------------------|-----------|--------------|------------|
| 1st RF Plate       | 125 volts | 1st RF Fil.  | 1.45 volts |
| 2nd RF Plate       | 125 volts | 2nd RF Fil.  | 1.45 volts |
| Detector Plate     | 62 volts  | Detector Fil | 2.25 volts |
| 1st AF Plate       | 125 volts | 1st AF Fil.  | 1.45 volts |
| Output Plates      | 190 volts | Output Fil.  | 5.1 volts  |
| Grids and Cathodes | 0 volts   |              |            |

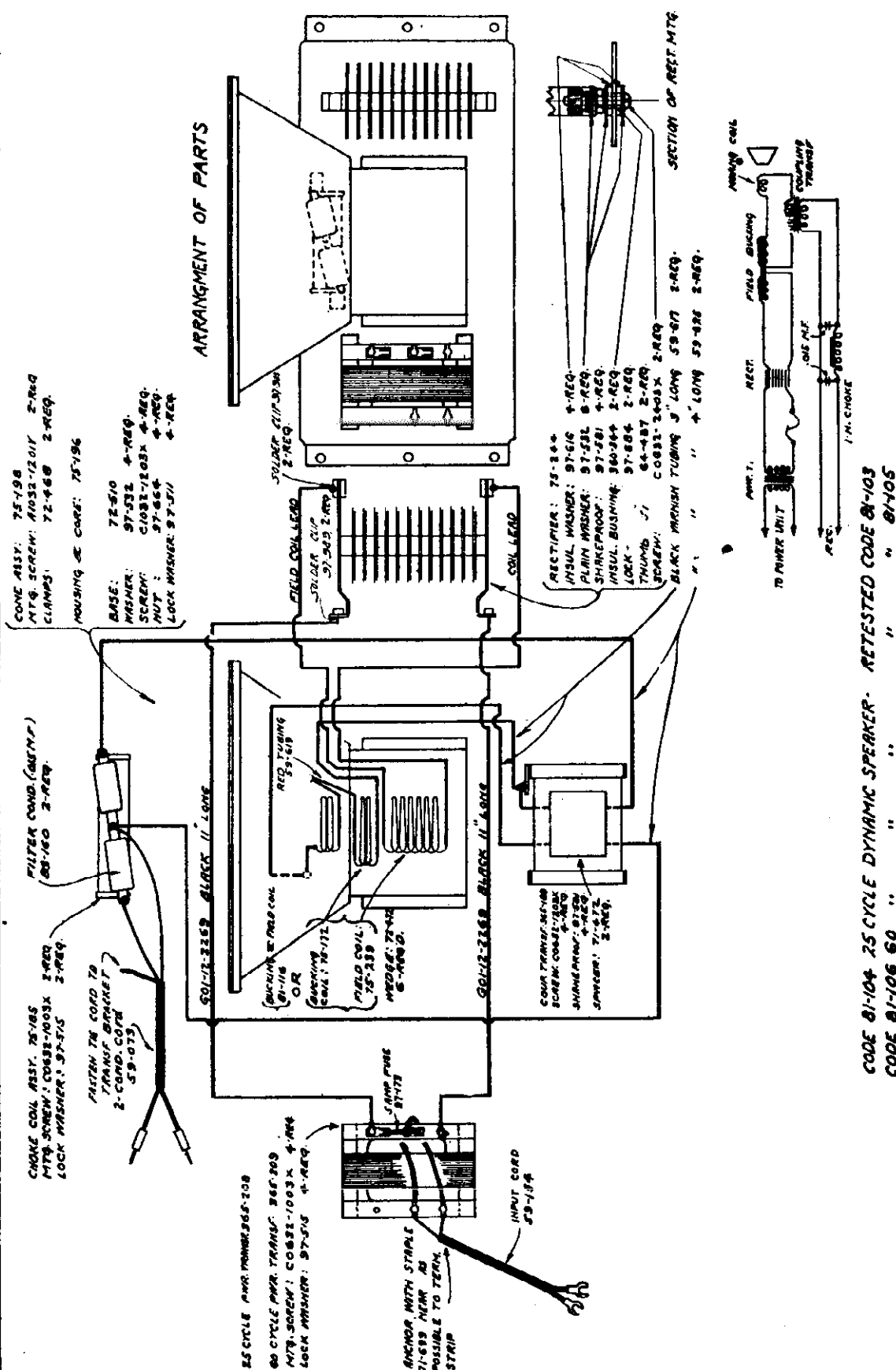
M-10-G1, H-40-G1, H-41-G1,  
H-10-25, H-40-25, H-41-25



## MODEL H Receiver Chassis Wiring

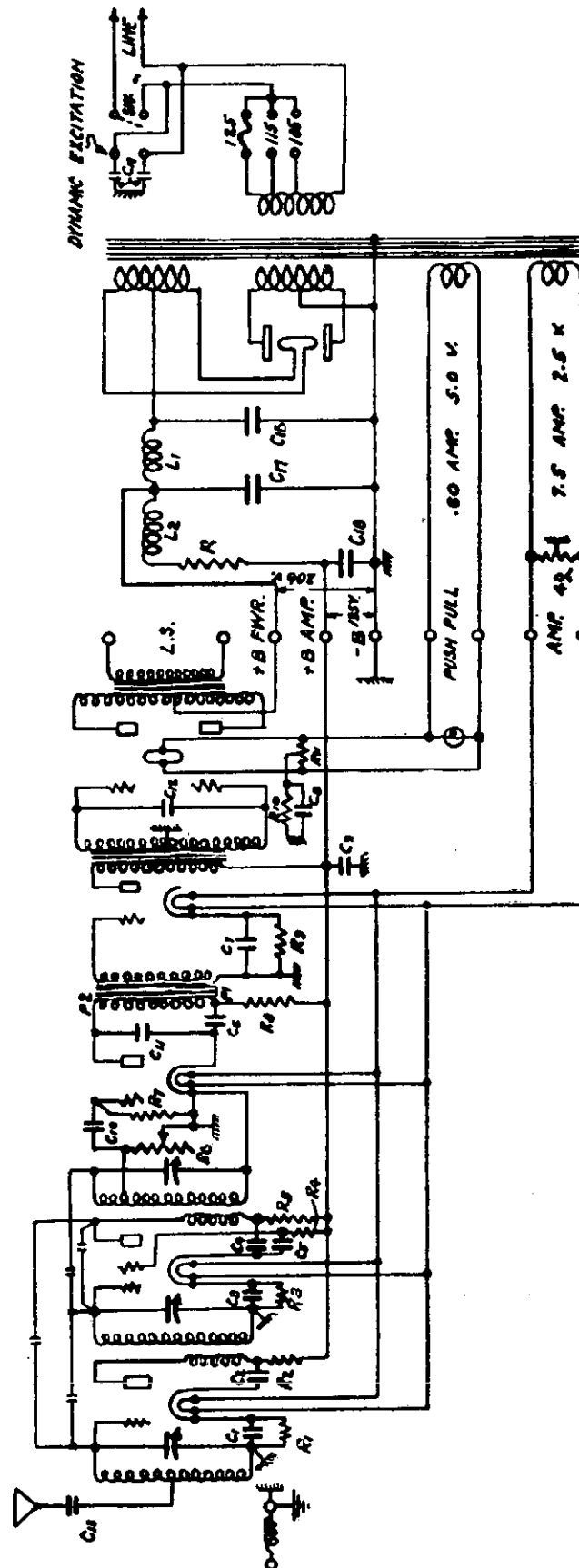


91-104



# FEDERAL RADIO CORP.

MODEL K



Model K

K-10-60, K-40-60, K-41-60,  
K-10-25, K-40-25, K-41-25

(A.C.)

25 CYCLE		60 CYCLE	
R	1000 Ω	R	1000 Ω
R1	1000 Ω	R1	1000 Ω
R2	1000 Ω	R2	1000 Ω
R3	1000 Ω	R3	1000 Ω
R4	1000 Ω	R4	1000 Ω
R5	1000 Ω	R5	1000 Ω
R6	1000 Ω	R6	1000 Ω
R7	1000 Ω	R7	1000 Ω
R8	1000 Ω	R8	1000 Ω
R9	1000 Ω	R9	1000 Ω
R10	1000 Ω	R10	1000 Ω
R11	1000 Ω	R11	1000 Ω
R12	1000 Ω	R12	1000 Ω
R13	1000 Ω	R13	1000 Ω
R14	1000 Ω	R14	1000 Ω
R15	1000 Ω	R15	1000 Ω
R16	1000 Ω	R16	1000 Ω
R17	1000 Ω	R17	1000 Ω
R18	1000 Ω	R18	1000 Ω
R19	1000 Ω	R19	1000 Ω
R20	1000 Ω	R20	1000 Ω
R21	1000 Ω	R21	1000 Ω
R22	1000 Ω	R22	1000 Ω
R23	1000 Ω	R23	1000 Ω
R24	1000 Ω	R24	1000 Ω
R25	1000 Ω	R25	1000 Ω
R26	1000 Ω	R26	1000 Ω
R27	1000 Ω	R27	1000 Ω
R28	1000 Ω	R28	1000 Ω
R29	1000 Ω	R29	1000 Ω
R30	1000 Ω	R30	1000 Ω
R31	1000 Ω	R31	1000 Ω
R32	1000 Ω	R32	1000 Ω
R33	1000 Ω	R33	1000 Ω
R34	1000 Ω	R34	1000 Ω
R35	1000 Ω	R35	1000 Ω
R36	1000 Ω	R36	1000 Ω
R37	1000 Ω	R37	1000 Ω
R38	1000 Ω	R38	1000 Ω
R39	1000 Ω	R39	1000 Ω
R40	1000 Ω	R40	1000 Ω
R41	1000 Ω	R41	1000 Ω
R42	1000 Ω	R42	1000 Ω
R43	1000 Ω	R43	1000 Ω
R44	1000 Ω	R44	1000 Ω
R45	1000 Ω	R45	1000 Ω
R46	1000 Ω	R46	1000 Ω
R47	1000 Ω	R47	1000 Ω
R48	1000 Ω	R48	1000 Ω
R49	1000 Ω	R49	1000 Ω
R50	1000 Ω	R50	1000 Ω
R51	1000 Ω	R51	1000 Ω
R52	1000 Ω	R52	1000 Ω
R53	1000 Ω	R53	1000 Ω
R54	1000 Ω	R54	1000 Ω
R55	1000 Ω	R55	1000 Ω
R56	1000 Ω	R56	1000 Ω
R57	1000 Ω	R57	1000 Ω
R58	1000 Ω	R58	1000 Ω
R59	1000 Ω	R59	1000 Ω
R60	1000 Ω	R60	1000 Ω
R61	1000 Ω	R61	1000 Ω
R62	1000 Ω	R62	1000 Ω
R63	1000 Ω	R63	1000 Ω
R64	1000 Ω	R64	1000 Ω
R65	1000 Ω	R65	1000 Ω
R66	1000 Ω	R66	1000 Ω
R67	1000 Ω	R67	1000 Ω
R68	1000 Ω	R68	1000 Ω
R69	1000 Ω	R69	1000 Ω
R70	1000 Ω	R70	1000 Ω
R71	1000 Ω	R71	1000 Ω
R72	1000 Ω	R72	1000 Ω
R73	1000 Ω	R73	1000 Ω
R74	1000 Ω	R74	1000 Ω
R75	1000 Ω	R75	1000 Ω
R76	1000 Ω	R76	1000 Ω
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R78	1000 Ω	R78	1000 Ω
R79	1000 Ω	R79	1000 Ω
R80	1000 Ω	R80	1000 Ω
R81	1000 Ω	R81	1000 Ω
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R88	1000 Ω	R88	1000 Ω
R89	1000 Ω	R89	1000 Ω
R90	1000 Ω	R90	1000 Ω
R91	1000 Ω	R91	1000 Ω
R92	1000 Ω	R92	1000 Ω
R93	1000 Ω	R93	1000 Ω
R94	1000 Ω	R94	1000 Ω
R95	1000 Ω	R95	1000 Ω
R96	1000 Ω	R96	1000 Ω
R97	1000 Ω	R97	1000 Ω
R98	1000 Ω	R98	1000 Ω
R99	1000 Ω	R99	1000 Ω
R100	1000 Ω	R100	1000 Ω



**FEDERAL—Type M  
Line Voltage 113—Set on 113 Volt Tap—Volume Con-  
trol Position Off**

[illegible]

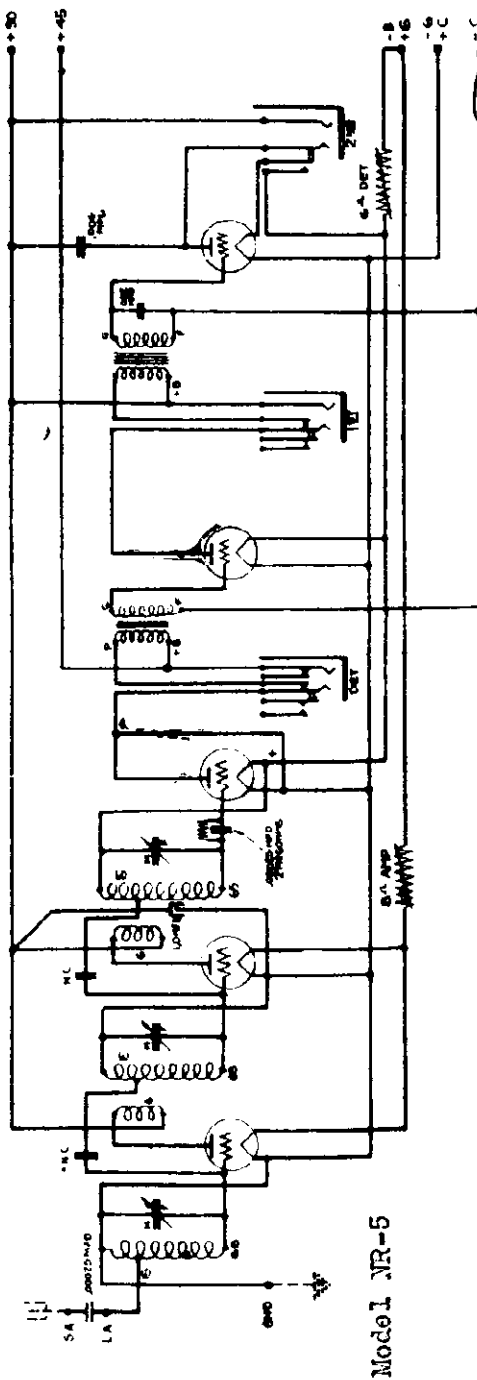
M-35-60, M-40-60, M-41-60, M-45-60, M-46-60,  
M-35-25, M-40-25, M-41-25, M-45-25, M-46-25(A.C.)

CX-380	<input type="radio"/>	Rect.	
Dx-345	<input type="radio"/>	2nd A.F.	
CX-345	<input type="radio"/>	2nd A.F.	
G-327	<input type="radio"/>	1st R.F.	
G-327	<input type="radio"/>	2nd R.F.	
G-327	<input type="radio"/>	3rd R.F.	
G-327	<input type="radio"/>	Det.	
G-327	<input type="radio"/>	1st A.F.	

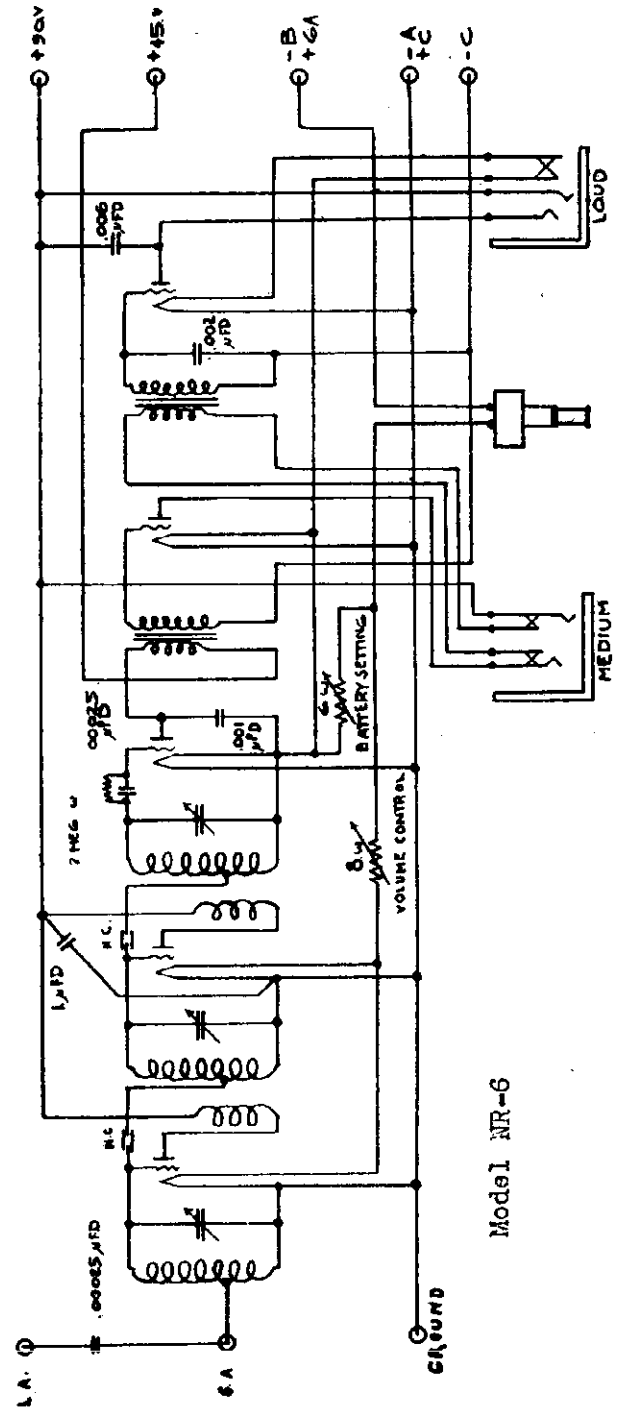


# FREED RADIO AND TELEVISION CORP.

MODEL NR-5  
MODEL NR-6



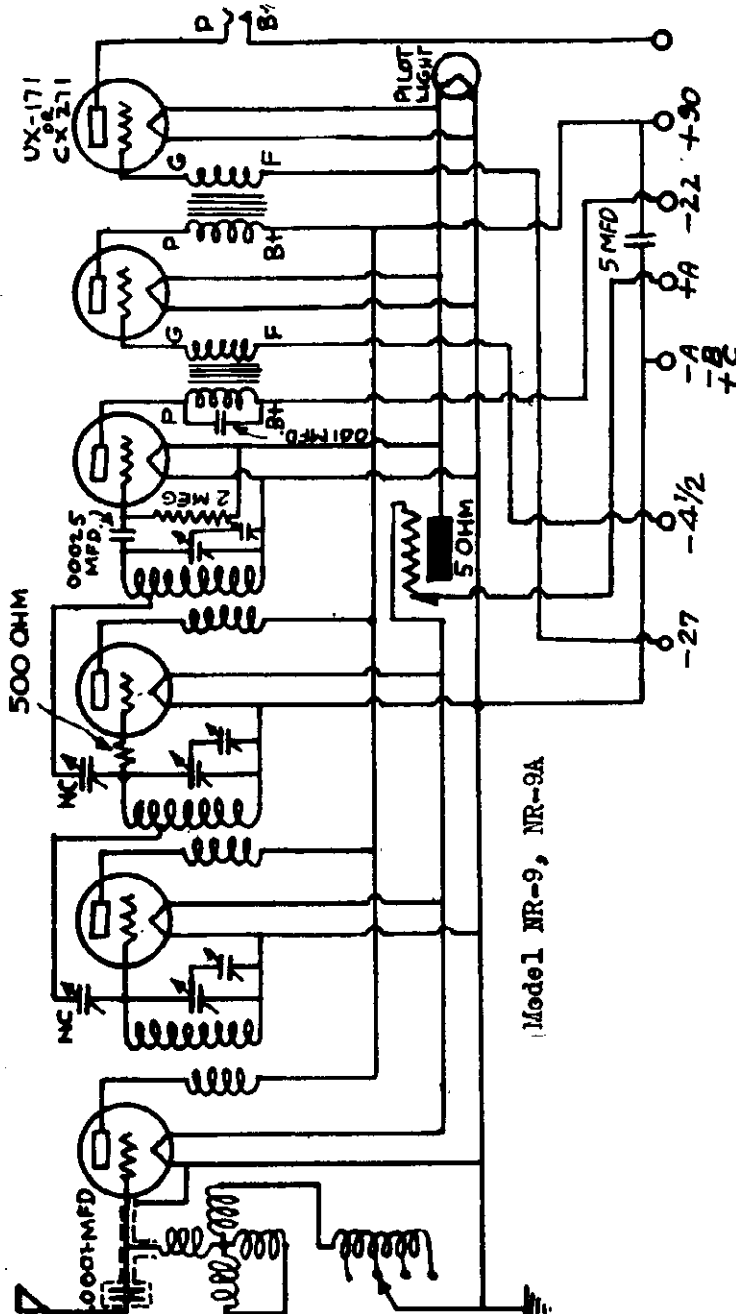
ALTERNATION TABLE				
REMARKS	DATE	BY	NO.	REVISION
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1
REWORKED	10/15/50	W. J. H.	1	1



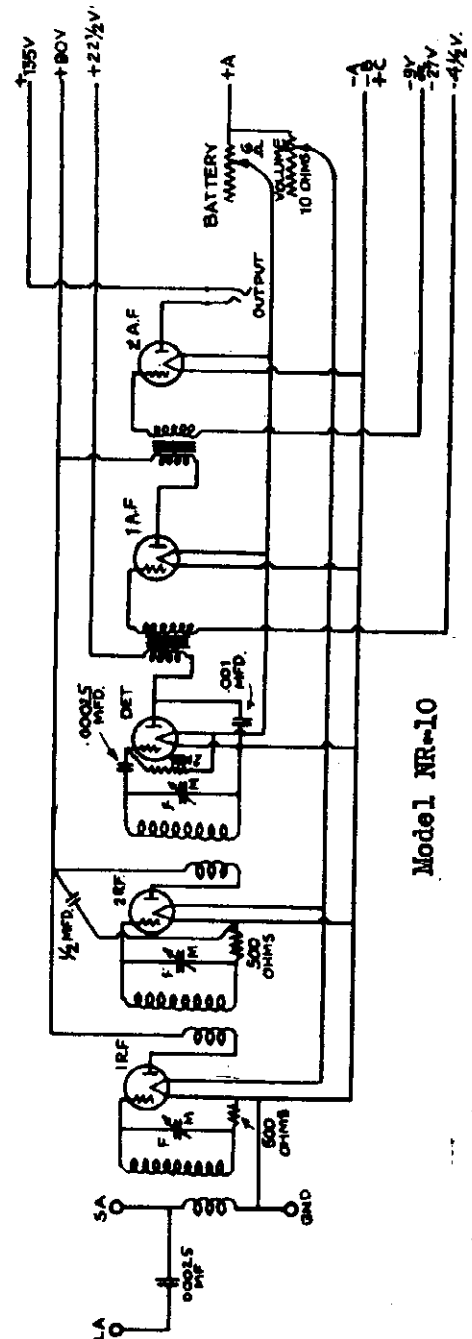
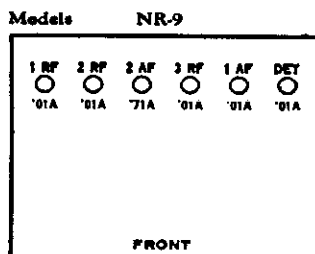


# FREED RADIO AND TELEVISION CORP.

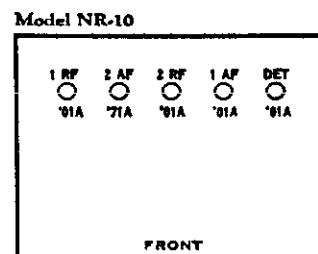
MODEL NR-9, NR-9A  
MODEL NR-10



Model NR-9, NR-9A

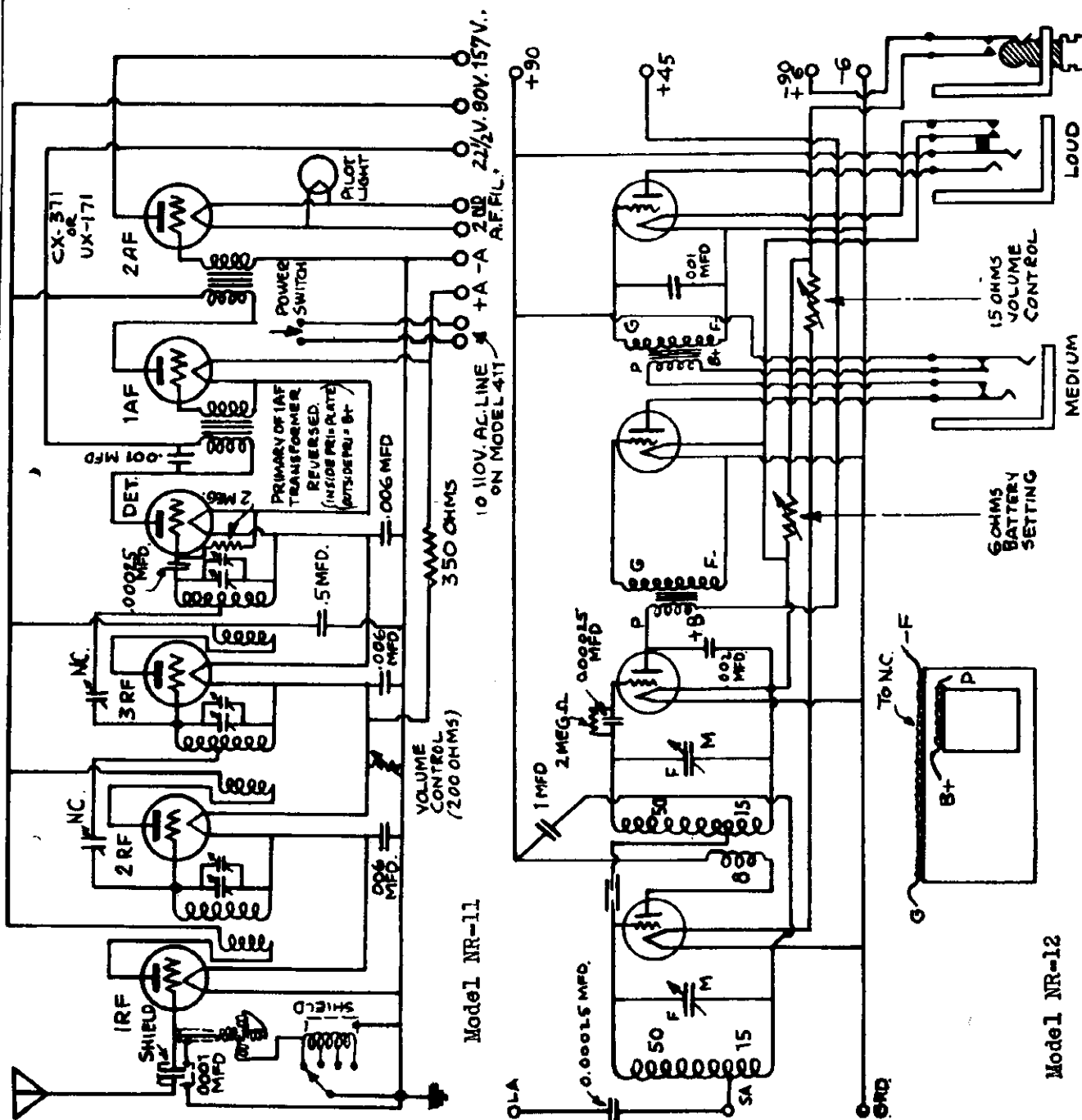


Model NR-10

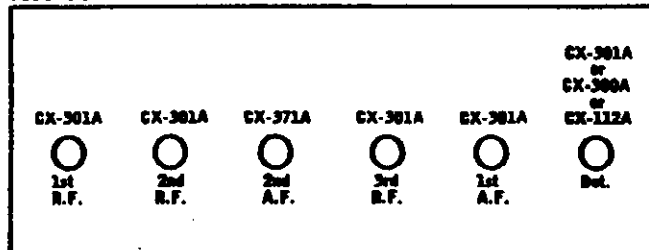


MODEL NR-11  
MODEL NR-12

FREED RADIO AND TELEVISION CORP.



NR-11

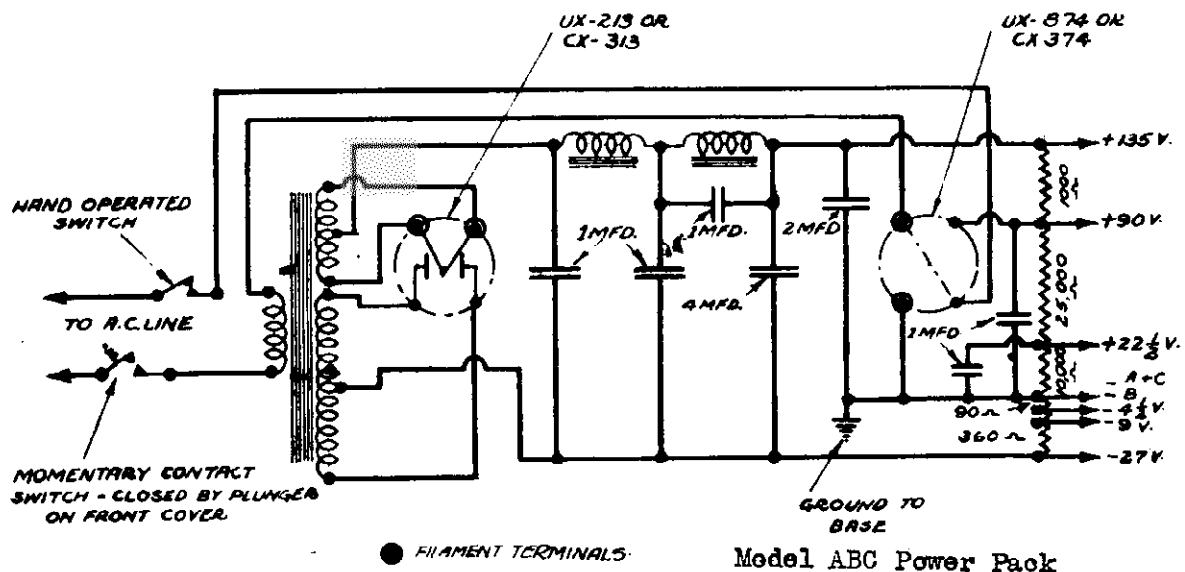
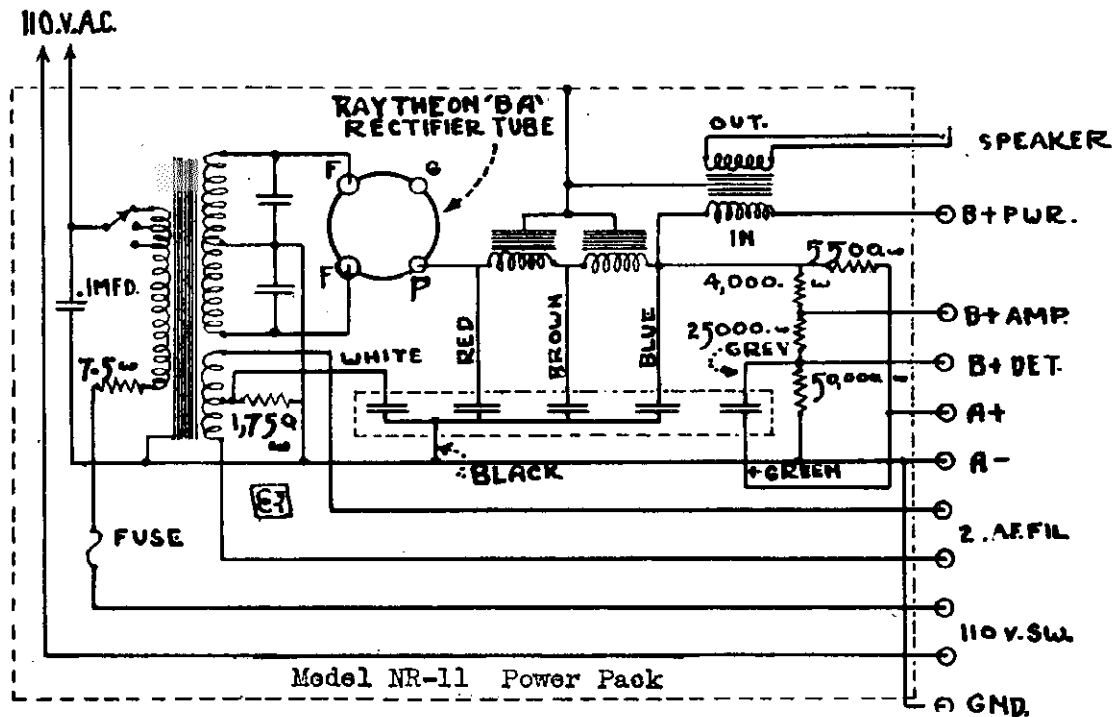


Power Pack For NR-11 On Next Page

This is an A.C. series filament receiver. All tubes except the 2nd A.F. stage tube must be 1/4 ampere tubes.

# FREED RADIO AND TELEVISION CORP.

MODEL NR-11  
Power Pack  
MODEL ABC  
Power Pack



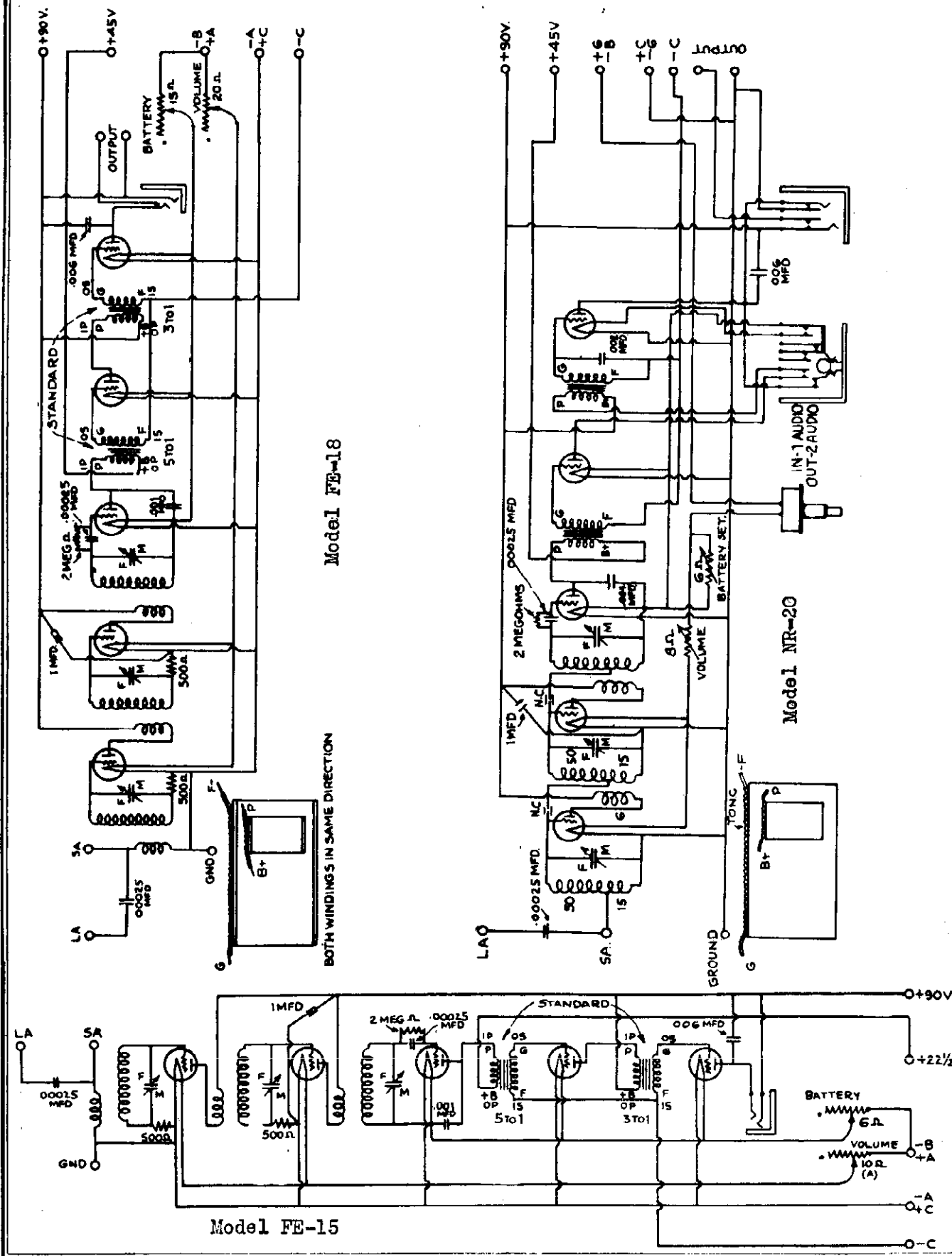
ALTERATION TABLE					APPROVAL		Freed-Eisemann SPERRY BUILDING BROOKLYN NEW YORK	
ALT. LIST	REMARKS	DATE	BY	APP'D	TRACER	CHECKER		
C	ADD BROWN	10-6	J. I. Rpm				SCHEMATIC CIRCUIT DIAGRAM OF B AND C ELIMINATOR SCALE DATE 4-12-27	

949

DRAWING NUMBER W.D.-16

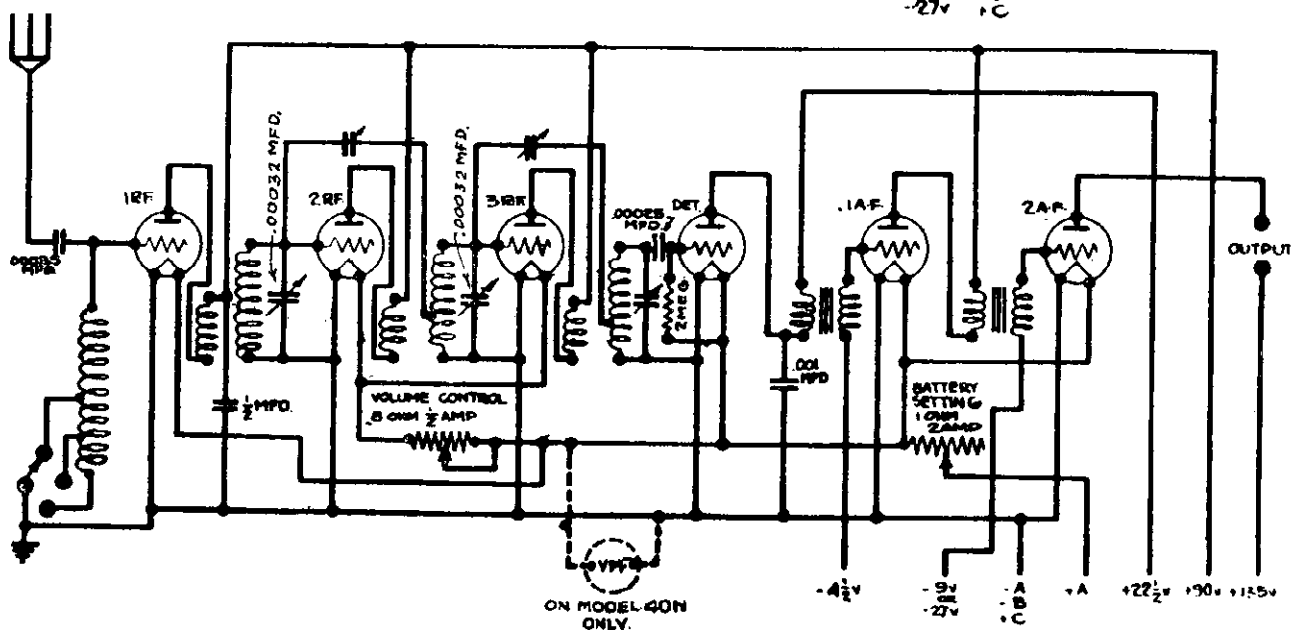
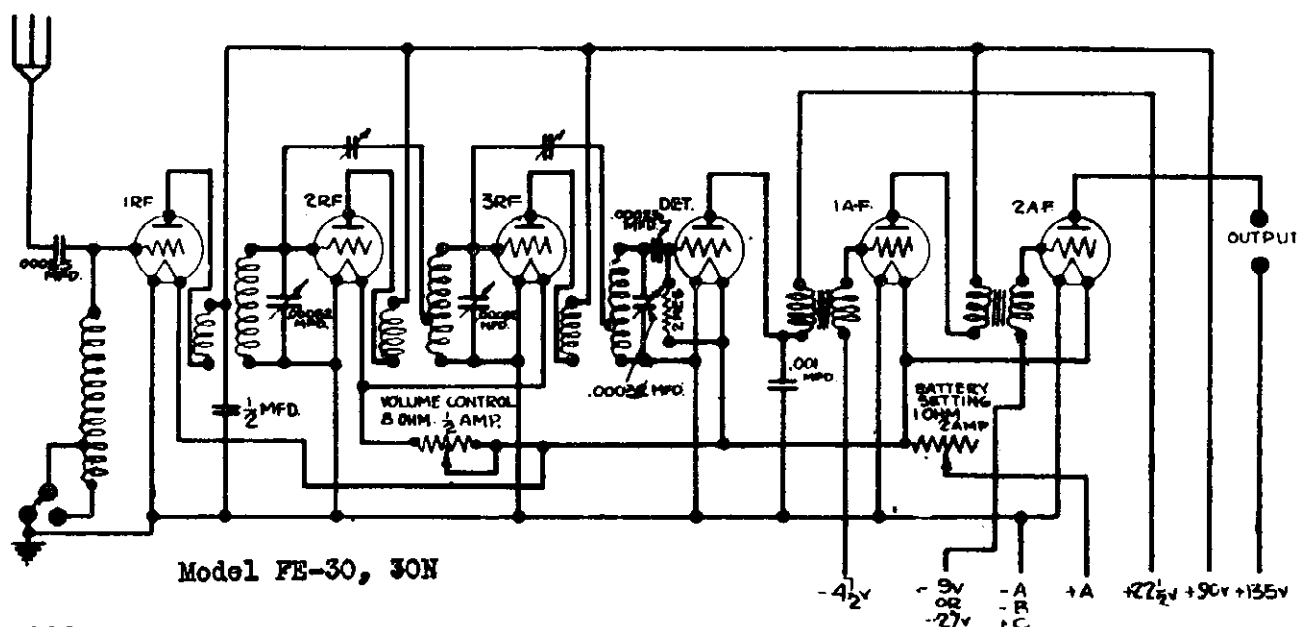
MODEL FE-15  
MODEL FE-18  
MODEL NR-20

# FREED RADIO AND TELEVISION CORP.

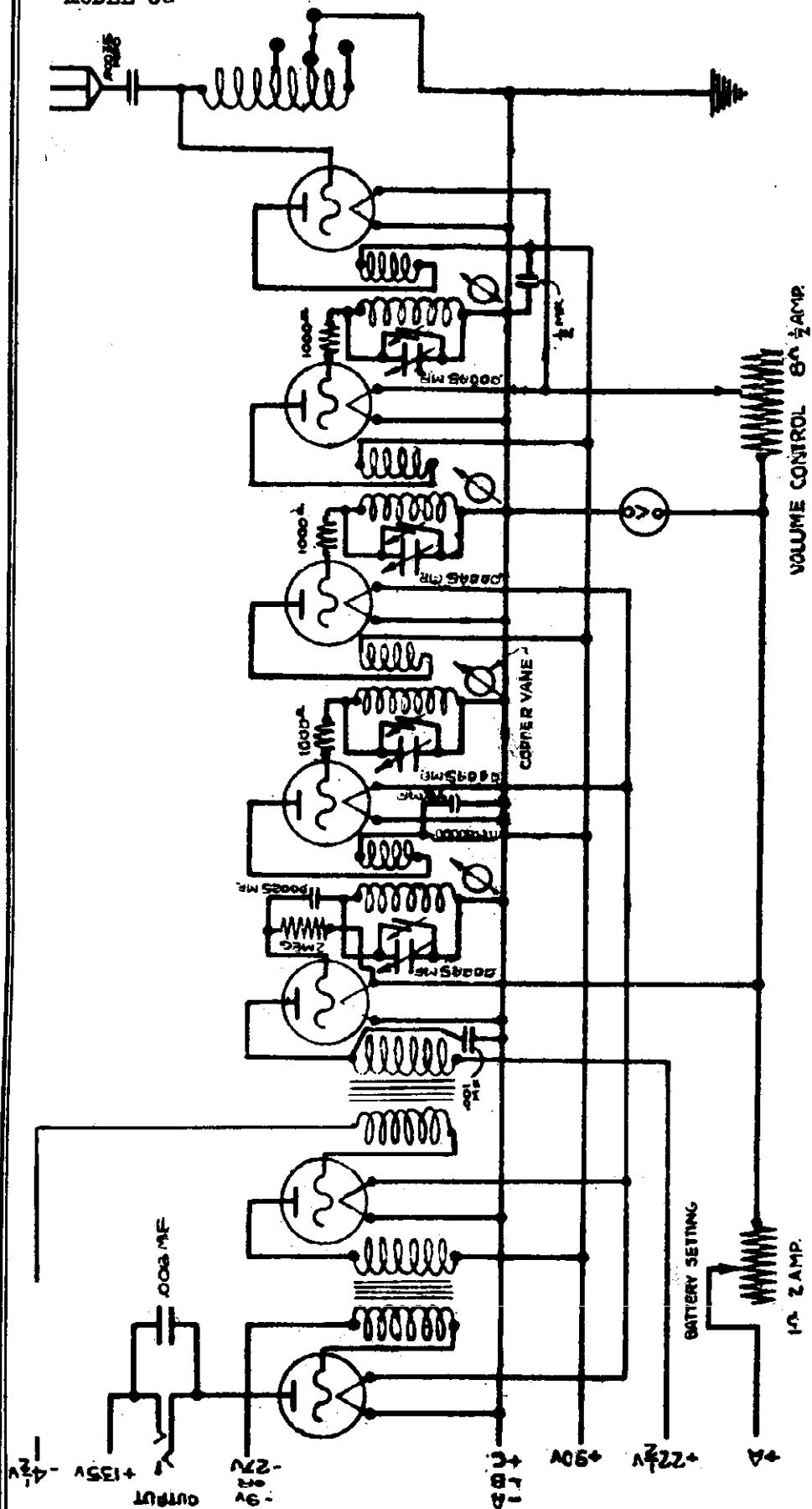


FREED - EISEMANN RADIO CORP.

MODEL FE-30, 30N  
MODEL 40N, 48N



**FREED RADIO AND TELEVISION CORP.**



*Fried. Cismann*

**SPINNY BUILDING**  
**BROOKLYN NEW YORK**

# MODEL 50 RECEIVER SCHEMATIC WIRING

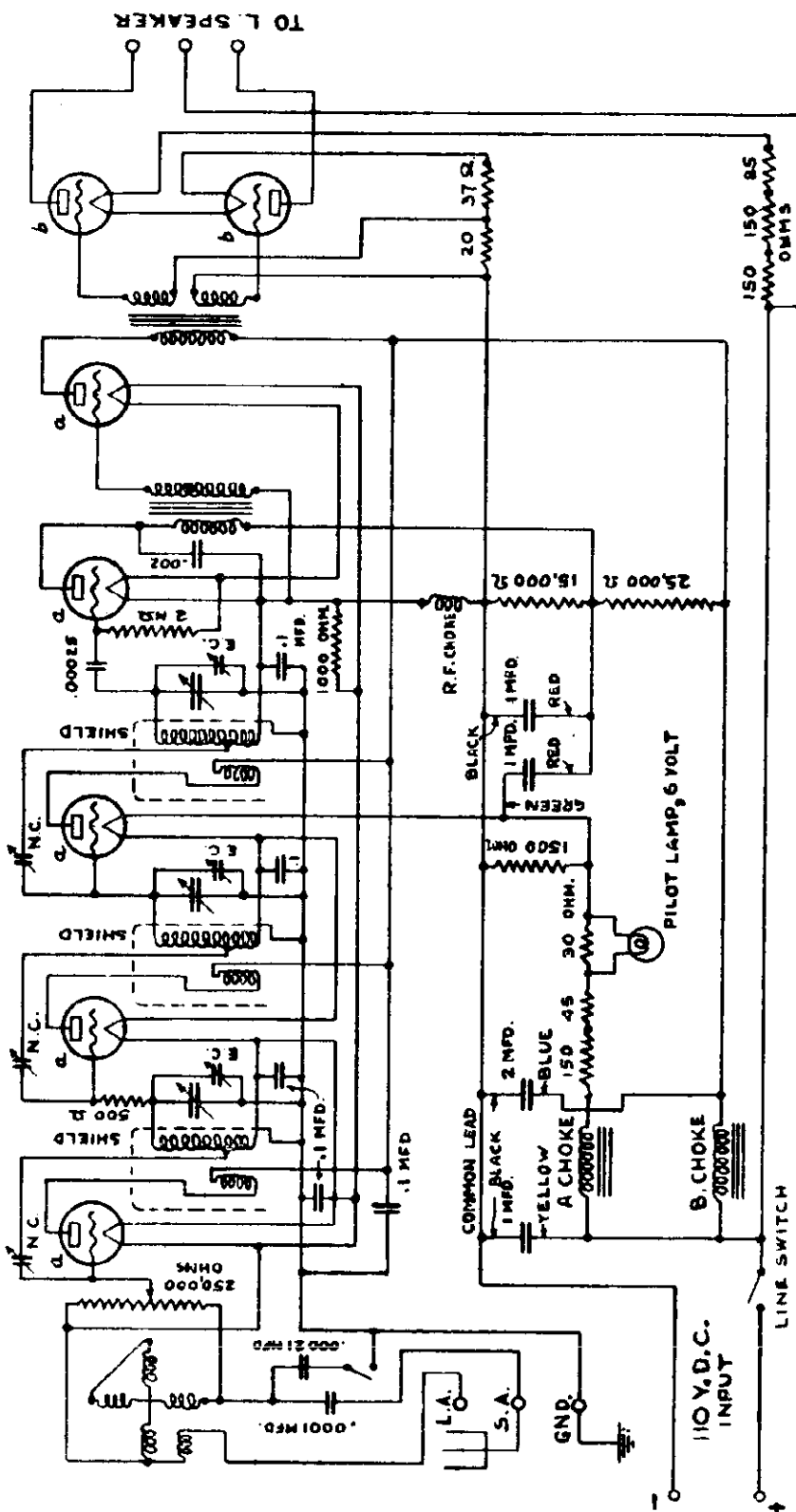
**CALL**

047: 4.13.27

ALTERATION TABLE				DELINATOR	W
REMARKS	DATE	BY	BY	TRACER	
REMARKS	DATE	BY	BY	CHECKER	
				APPROVAL	
				DATE	BY
				CHIEF ENGINEER	

**FREED RADIO AND TELEVISION CORP.**

MODEL NR-55 DC



NOTE: RESISTANCES 86 AND 45 OHMS WOUND ON ONE TUBE  
RESISTANCES 30, 20 AND 37 OHMS WOUND ON ONE TUBE

(D.C.)	RATION TABLE					BELINEATOR	S.S.
WRKS	MTE	H'T	APPD			TRACER	
D	9/27/29	S.S.	[Signature]			CHECKER	
N.A.F.	10/6/29	F.N.	[Signature]				
N.A.F.						APPROVAL	[Signature]
N.A.F.						DATE	
						CHIEF ENGINEER	[Signature]

**NR-55DC, NR-56DC**

CX-301A ☐ Del. CX-301A ☐ 1st A.F.  
 CX-301A ☐ 3rd R.F. CX-371A ☐ 2nd A.F.  
 CX-301A ☐ 2nd R.F. CX-571A ☐ 2nd A.F.  
 1st R.F.

*Fried-Eisemann*

# PASSAIC NJ

SCHEMATIC WIRING DIAGRAM  
TYPE NR-55 D.C.

SCALE

DATE 5-6-29

TO L. SPEAKER

PILLOT LAMP

LINE SWITCH

PLUG

FIL #2 1000 OHMS

FIL #3 1000 OHMS

FIL #1 1000 OHMS

SEC.

20 OHMS

FIL #4

500 OHMS

15000 25000 4700 OHMS

ORANGE GRAY BLUE YELLOW RED GREEN

COM. LEAD BLACK

1 MF. - 200

2 MF. - 200

4 MF. - 400

1 MF. - 400

.5 MF. - 200

FOR 60 CY - 1 MF 400

FOR 25 CY - 2 MF 400

OPERATED BY SAME SHAFT

10000 OHMS

.5 MF 200

25000 OHMS

SHIELD

SHIELD

SHIELD

NC.

NC.

NC.

EC.

EC.

EC.

.00025

2 MF

.002

2000

5 MF

200

.00021 MF

.0001 MF

L.A.

S.A.

GND.

BROWN

.1 MF - 400

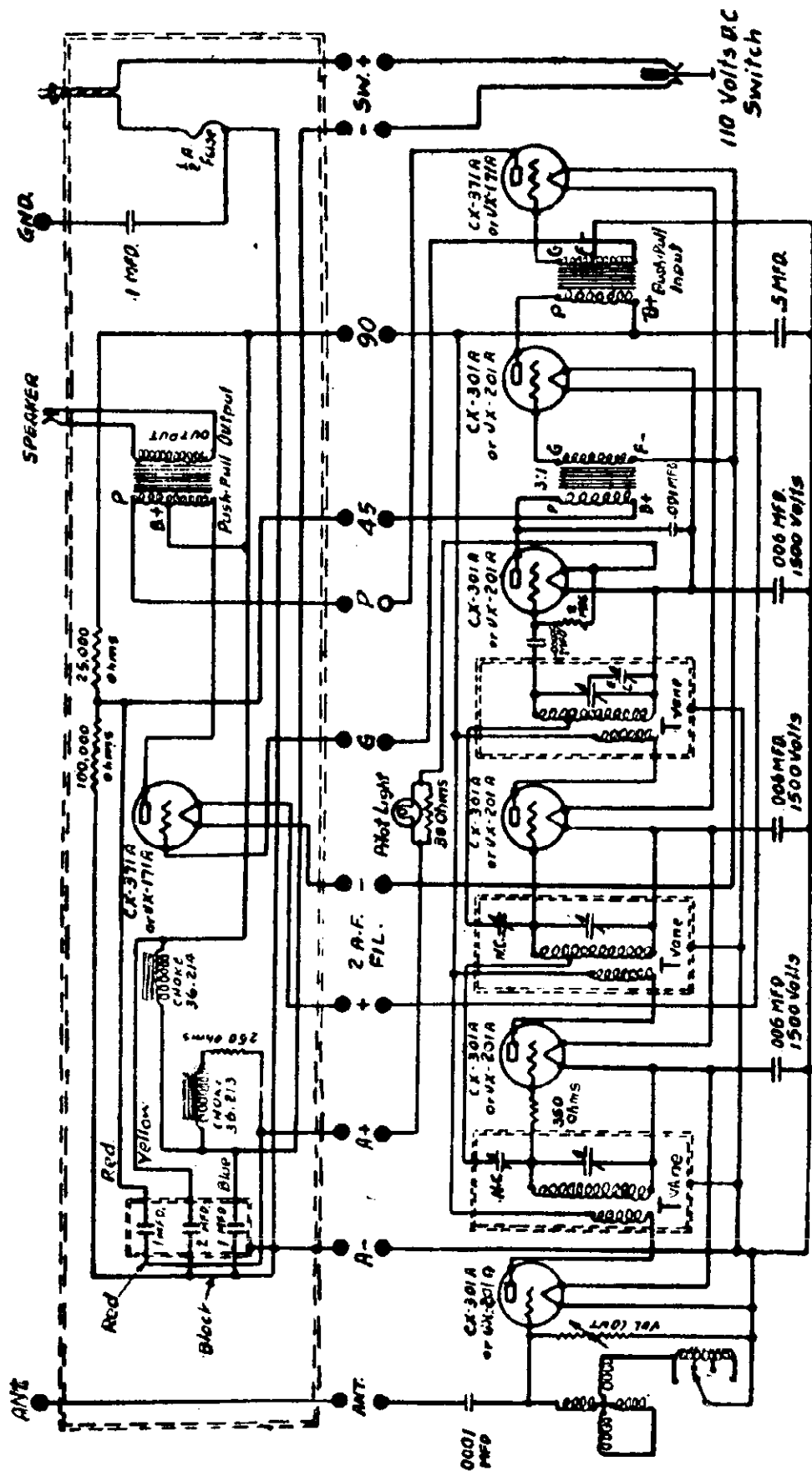
NR-55, NR-56  
(A.U.)

**FREED-EISEMANN—Model 55**  
Line Voltage 116—Volume Control Position Full On

REGISTRATION PLATE IN RECORD OF TEST													
TIME NO OF HOURS	TYPE OF TEST	TIME OF TEST	TIME DAY			TIME IN TESTER							
			A WATER	B WATER	C WATER	A VOLTS CONTINUED WATER	B VOLTS CONTINUED WATER	C VOLTS CONTINUED WATER	PERCENT WATER	PERCENT WATER	PERCENT WATER	PERCENT WATER	
1	225	121	1.5	90	1.45	76	5	-	2.4	4.8	2.3	2.8	
2	226	127	2.8	90	1.65	76	5	-	2.4	4.8	2.8	2.8	
3	226	131	3.6	90	1.67	76	5	-	2.4	4.8	2.8	2.8	
4	227	124	1.6	32	1.9	30	-	-	1.0	1.0	0.0	0.0	
5	227	124	2.1	98	1.97	72	4.5	5	2.8	5.0	2.8	2.8	
6	171A	124	6.0	135	4.95	125	39	-	13.6	36	23	23	
7	171A	124	6.0	135	4.95	125	39	-	13	35	32	32	
8	160	124	5.6	-	5.4	-	-	-	4.0	-	-	-	

MODEL NR-60 DC

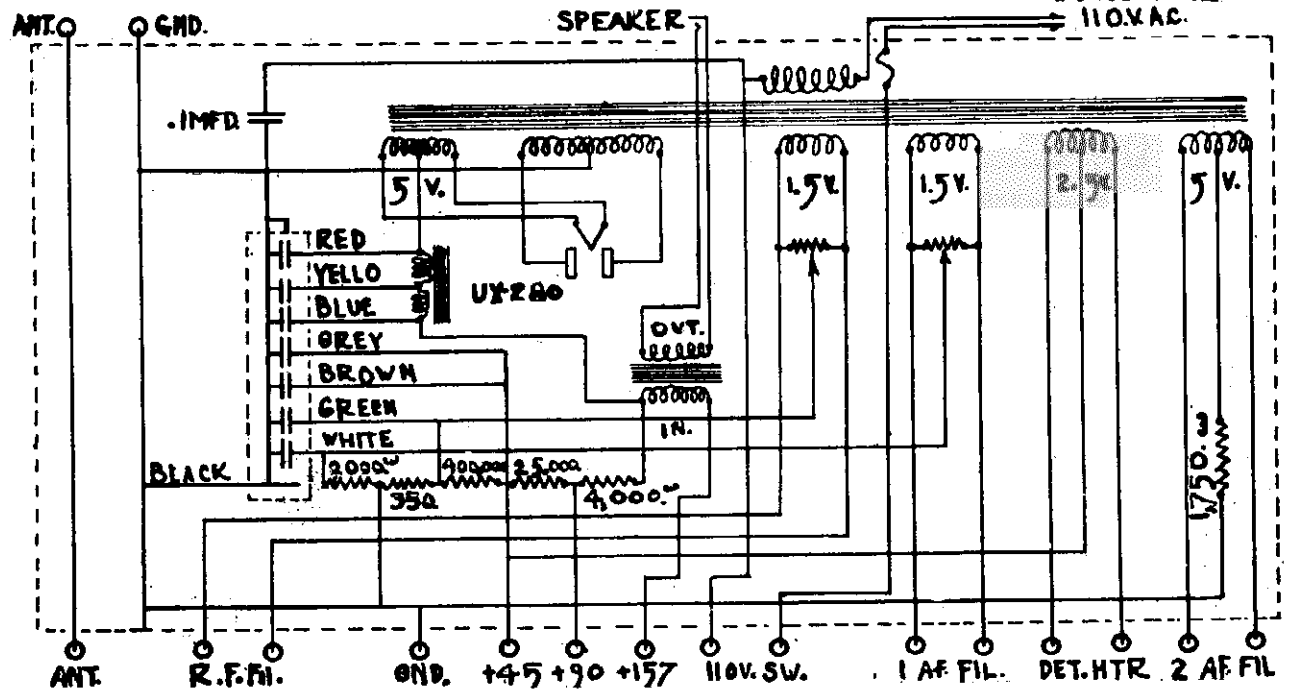
**FREED RADIO AND TELEVISION CORP.**



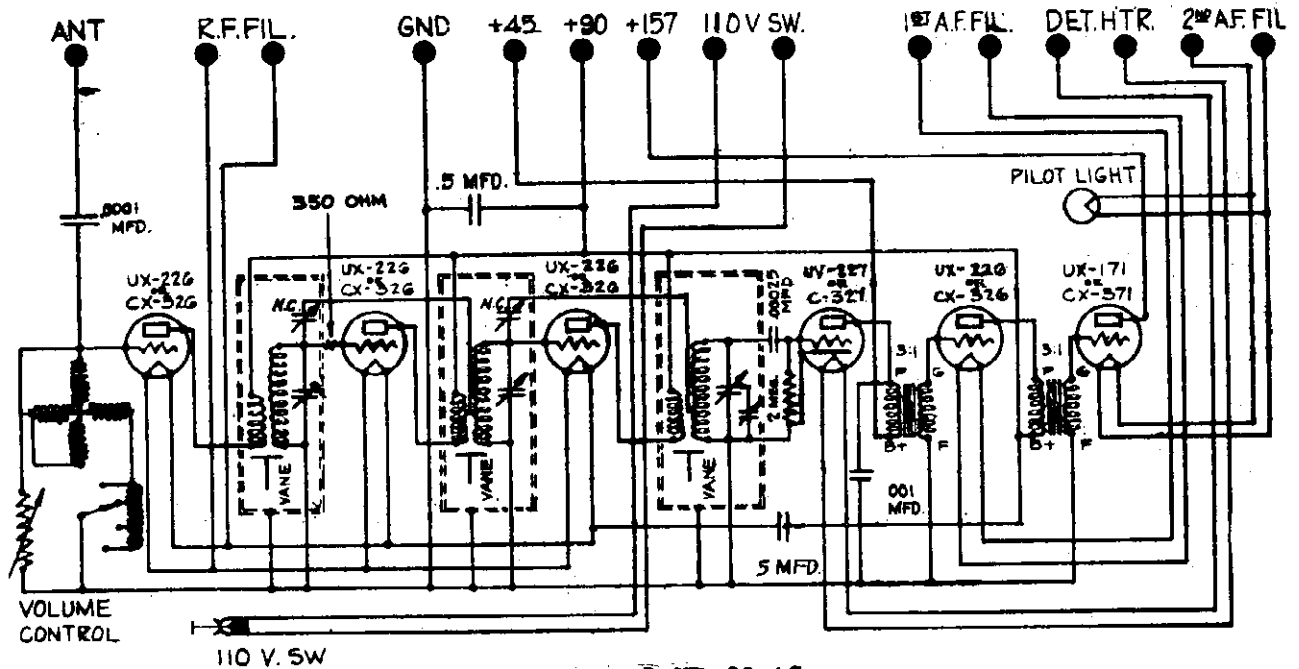


# FREED RADIO AND TELEVISION CORP.

MODEL NR-60 AC  
Schematic  
MODEL NR-460 AC  
Power Pack  
110V AC.



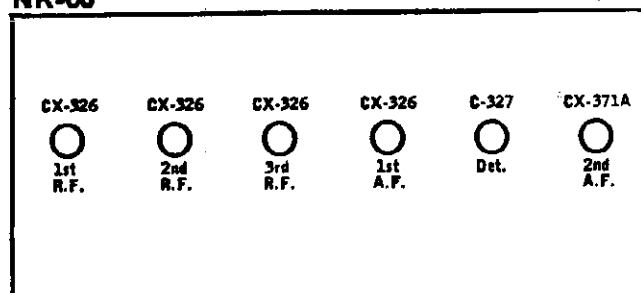
Model NR-460 AC.



Model NR-60 AC

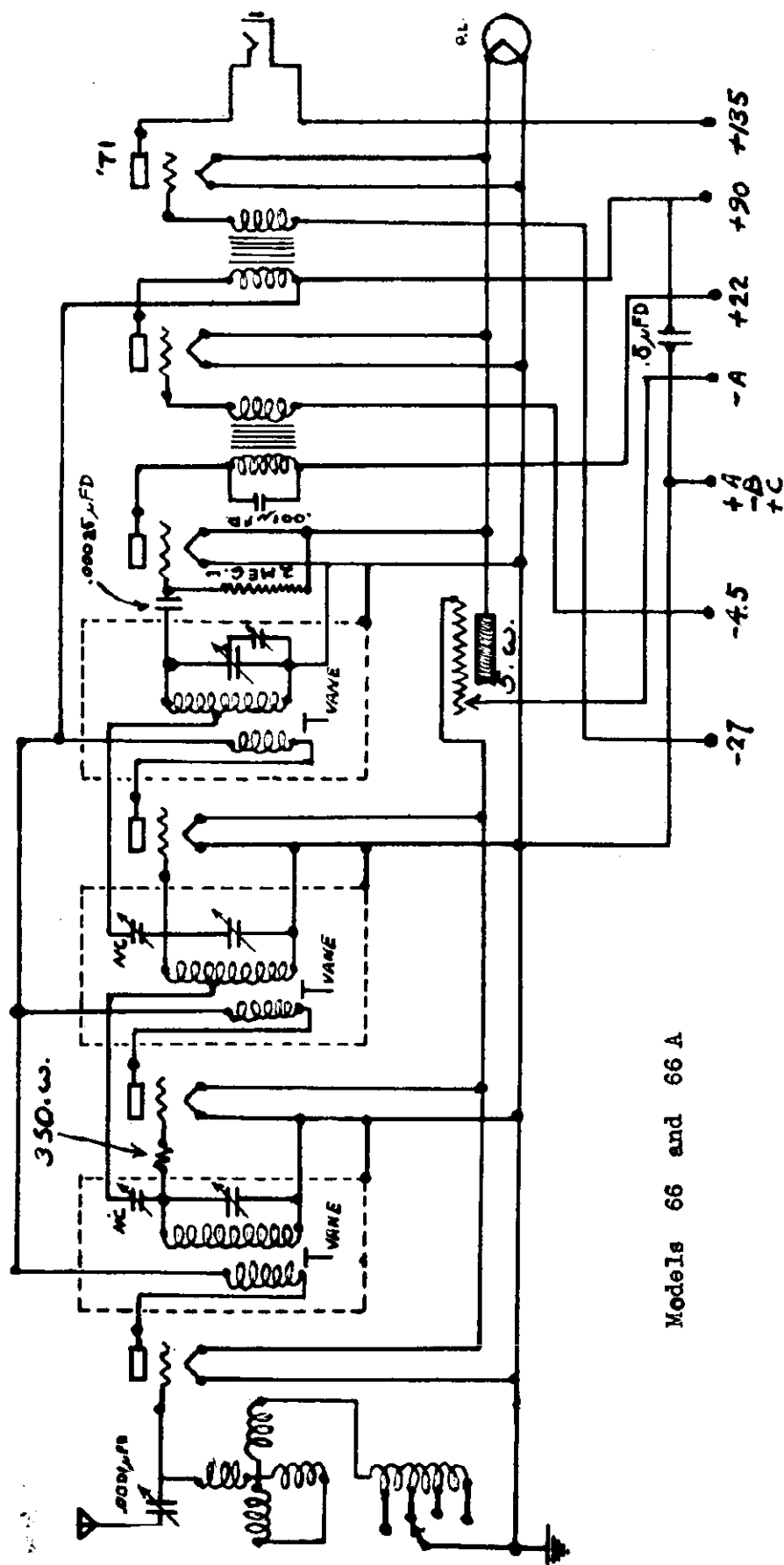
NR-60

(A.C.)



MODEL NR-66, 66A

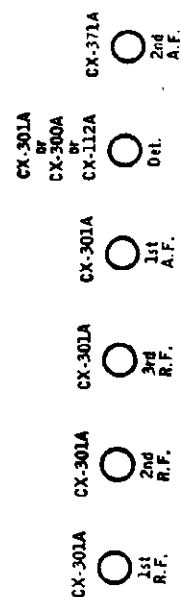
**FREED RADIO AND TELEVISION CORP.**



## Models 66 and 66 A

NR-66

(Batt.)

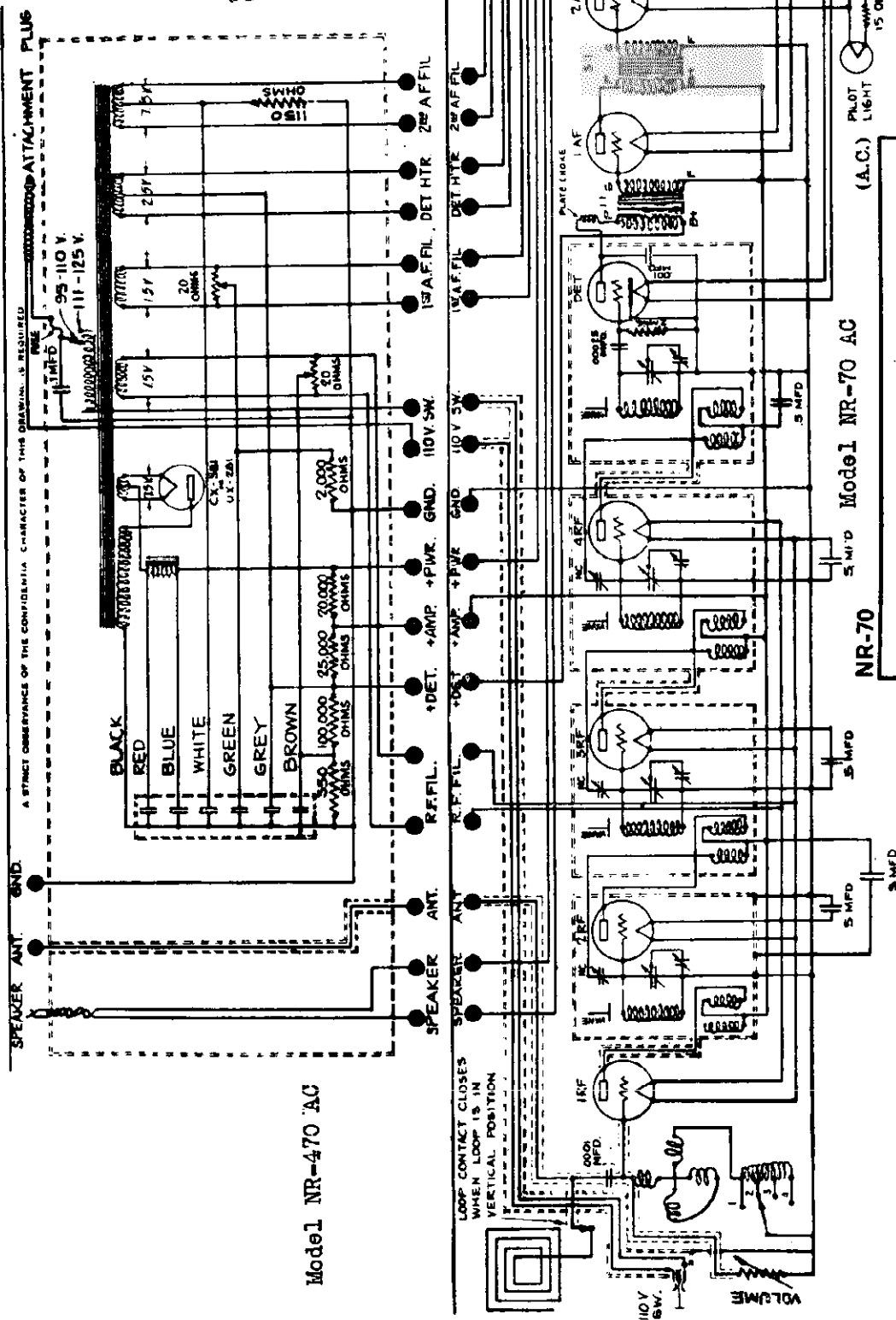


**FREED RADIO AND TELEVISION CORP.**

MODEL NR-70 AC  
Receiver  
MODEL NR-470 AC  
Power Pack

**NOTE:-**

2,000 350 & 150 OHM  
RESISTANCES WOUND  
ON SAME TUBE.  
20,000 OHM RESISTANCE  
COMPOSED OF 2-10,000  
OHM RESISTANCES  
CONNECTED IN SERIES

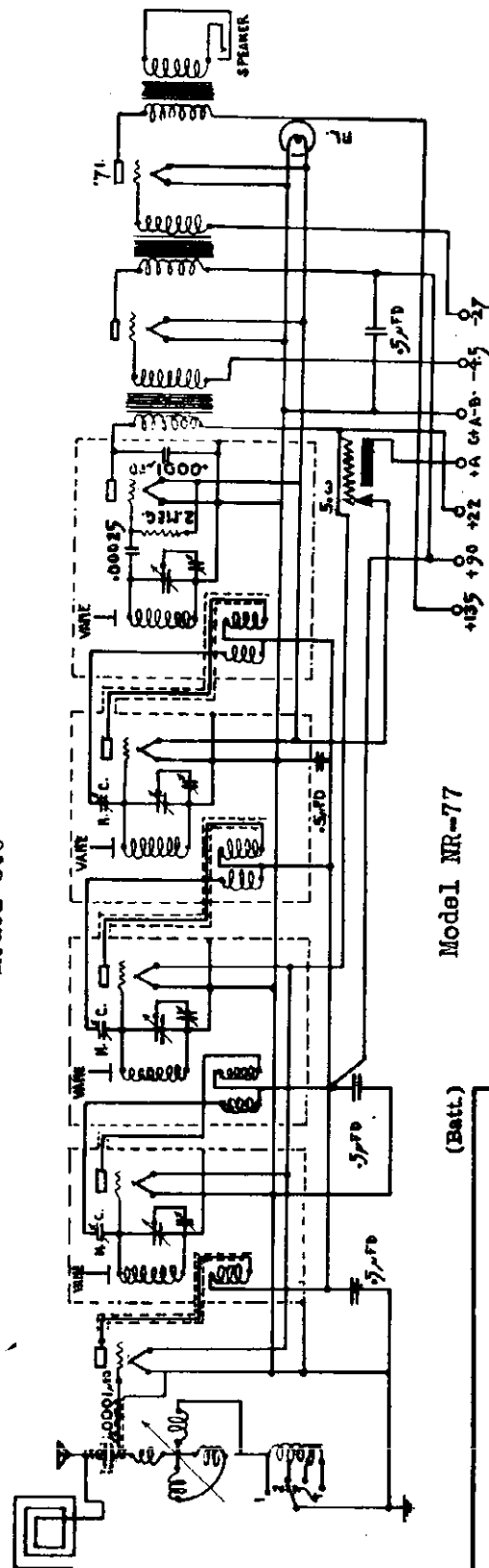


<input type="radio"/> CX-326	2nd R.F.
<input type="radio"/> CX-326	3rd R.F.
<input type="radio"/> CX-326	1st R.F.
<input type="radio"/> CX-326	2nd A.F.
<input type="radio"/> CX-310	1st A.F.
<input type="radio"/> CX-326	4th R.F.
<input type="radio"/> CX-326	Det.

**CX-381 used in Power Pack Can.**

[illegible]

Model 800

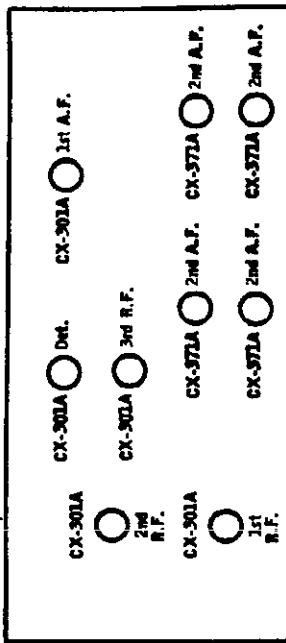


Model NR-77

**(Batt.)**

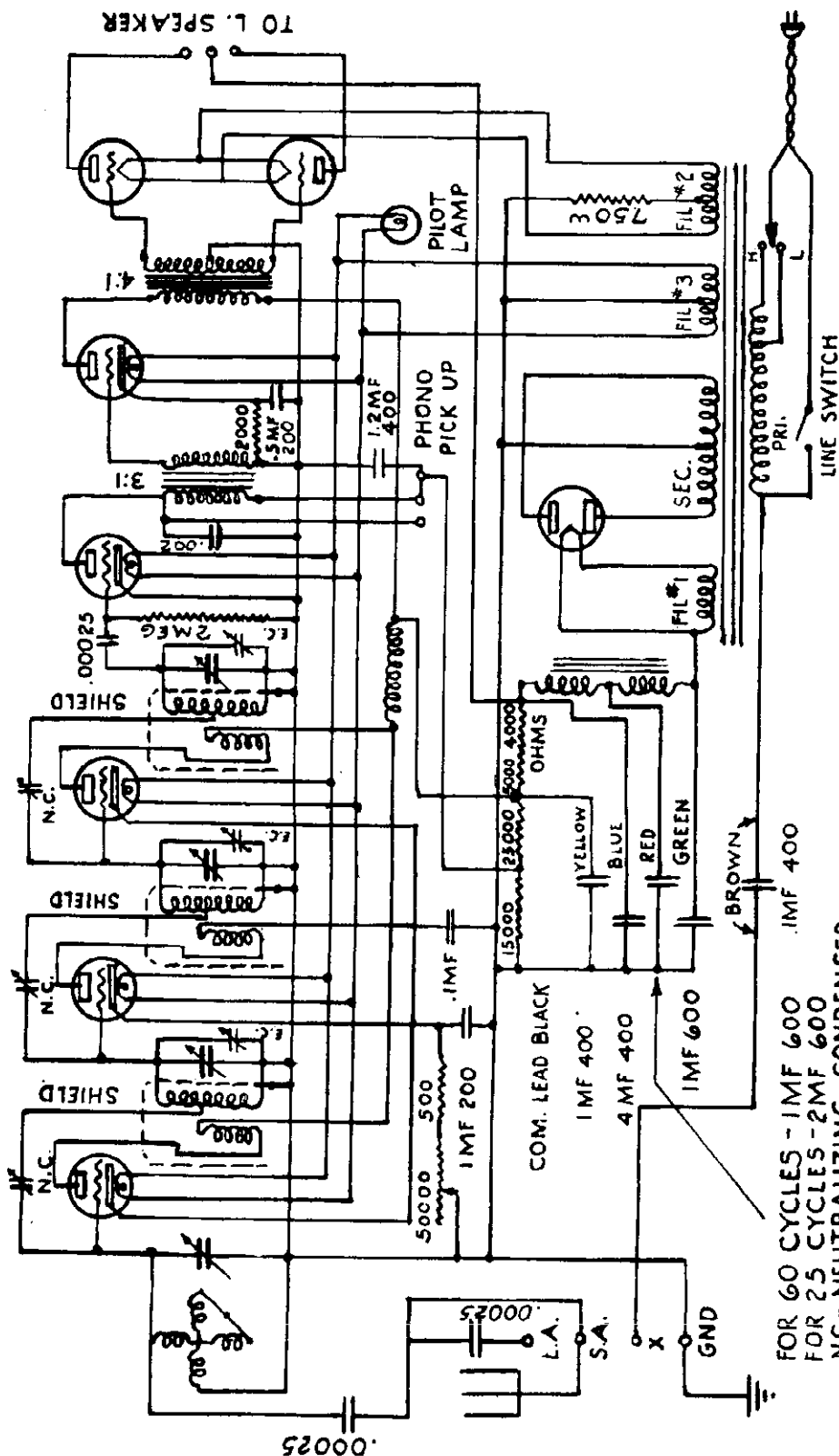
**NR-77**

<input type="radio"/>	CX-501A	<input type="radio"/>	CX-301A	<input type="radio"/>	CX-571A	<input type="radio"/>	CX-501A	<input type="radio"/>	Bd.
<input type="radio"/>	CX-501B	<input type="radio"/>	CX-302A	<input type="radio"/>		<input type="radio"/>	1st A.F.	<input type="radio"/>	4th
<input type="radio"/>	CX-500A or CX-500B	<input type="radio"/>	CX-501A	<input type="radio"/>	1st R.F.	<input type="radio"/>	2nd A.F.	<input type="radio"/>	4th
<input type="radio"/>	CX-118A	<input type="radio"/>		<input type="radio"/>	3rd R.F.	<input type="radio"/>		<input type="radio"/>	
<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	2nd R.F.	<input type="radio"/>		<input type="radio"/>	



MODEL NR-78	AC
NR-79	AC

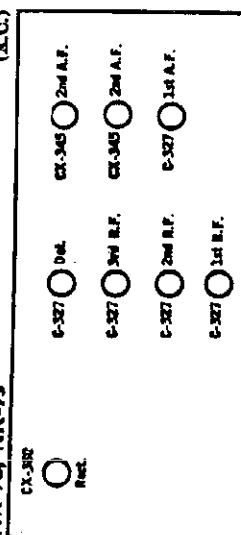
**FREED RADIO AND TELEVISION CORP.**

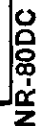


**FRIED-EISEMANN—Model 78-79**  
Line Voltage 116—Set on High Volt Tap—Volume Control—Pushing Full On

[illegible]

**NR-78, NR-79**





**SCALE**

ON TABLE				
DATE	N°1	N°2	N°3	N°4
6-30-78	SAP			
7-10-78	W			
9-28-78	W			
9-28-78	W			
10-28-78	W			

DELINTEATOR SAP

TRACER

CHECKED

APPROVAL [Signature]

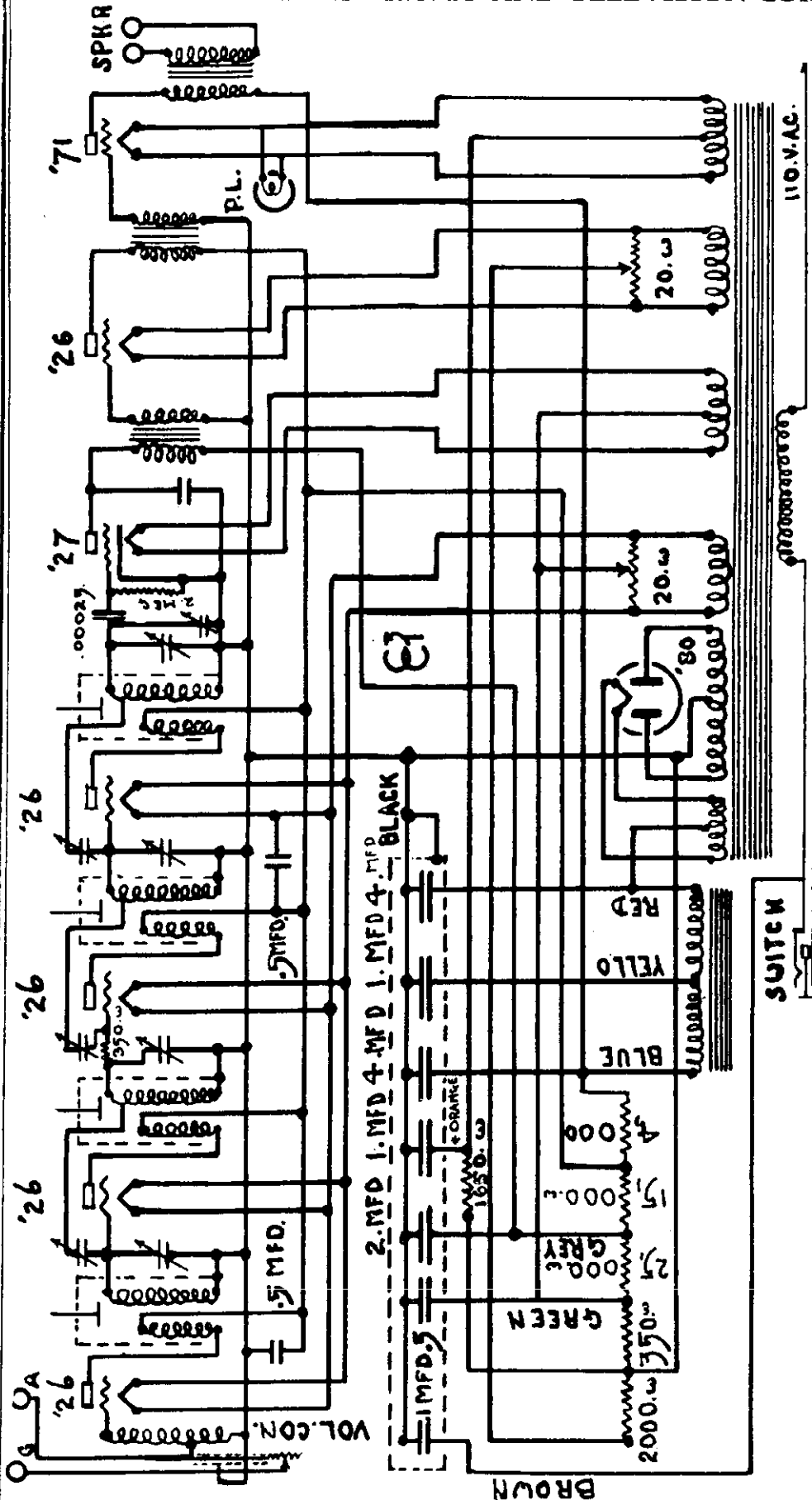
DATE

CHIEF ENGINEER

[illegible]

MODEL NR-80 AC

**FREED RADIO AND TELEVISION CORP.**



**FREED-EISEMANN—Model NR-80**  
**Line Voltage 120**

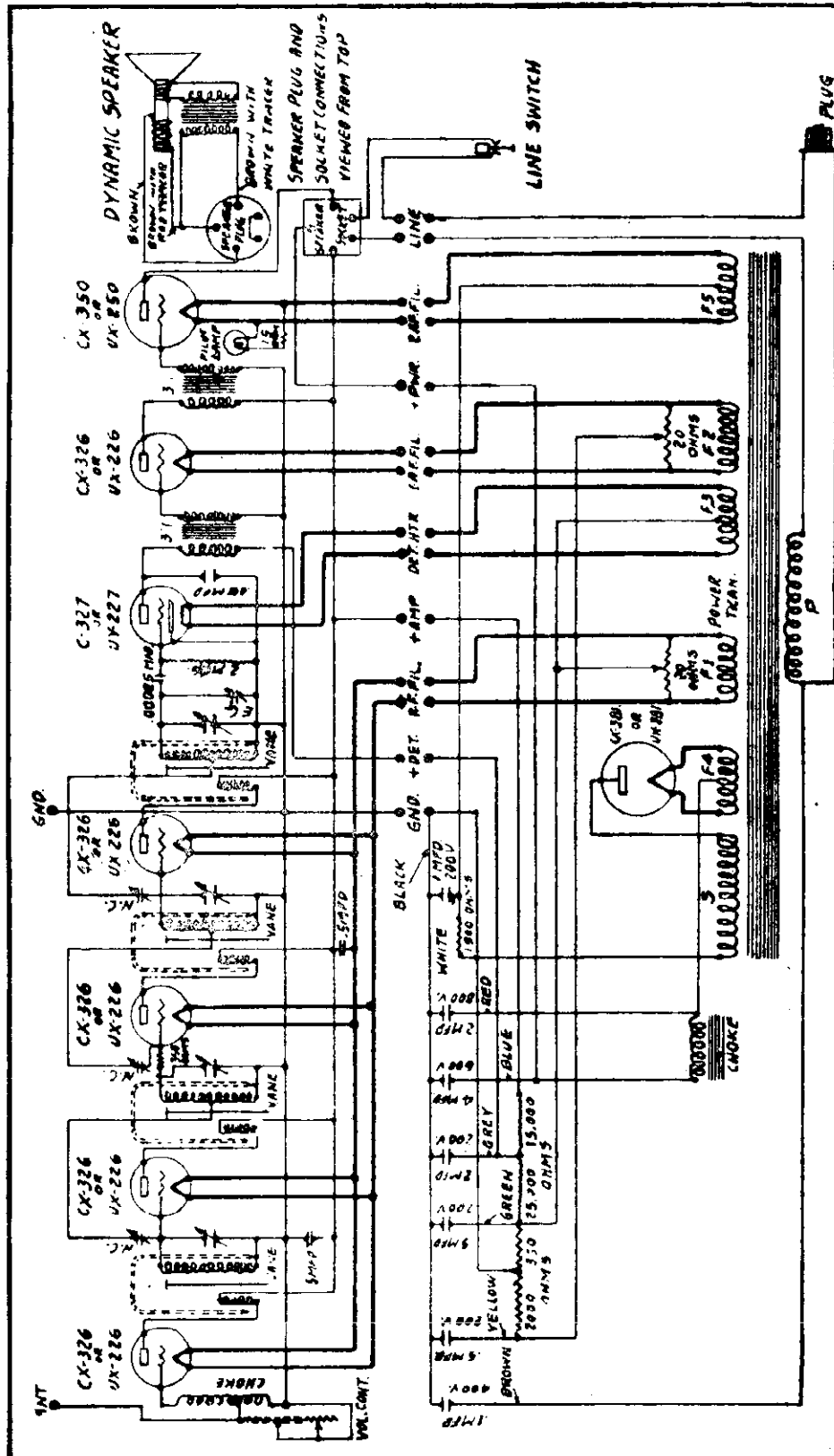
[illegible]

(A.C.)

**NR-80**

CX-371A	<input type="radio"/>	2nd A.F.
CX-326	<input type="radio"/>	1st A.F.
C-327	<input type="radio"/>	Det.
CX-326	<input type="radio"/>	4th R.F.
CX-326	<input type="radio"/>	3rd R.F.
CX-326	<input type="radio"/>	2nd R.F.
CX-326	<input type="radio"/>	1st R.F.
CX-380	<input type="radio"/>	Rect.

# FREED RADIO AND TELEVISION CORP.



**NR-85**

(A.C.) FREED-HISIMANN Model NR-85  
Line Voltage 120

*Freed-Hisimann*

10009 ST. B. LIBERTY AVE. BROOKLYN NEW YORK

**SCHEMATIC WIRING DIAGRAM**

**NR-85 TYPE**

SCALE DATE 6-14-28

TUBE		TYPE		RATING		WATTAGE		RESISTANCE		CAPACITANCE		TOLERANCE	
NO.	TYPE	NO.	TYPE	NO.	TYPE	NO.	TYPE	NO.	TYPE	NO.	TYPE	NO.	TYPE
1	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	100
2	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
3	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
4	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
5	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
6	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
7	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
8	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
9	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	
10	CX-326	UX-226	100	0.0	100	0.0	100	0.0	100	0.0	100	0.0	

CX-381

Rel.

CX-326

1st R.F.

CX-326

2nd R.F.

CX-326

3rd R.F.

CX-326

4th R.F.

C-327

Det.

CX-350

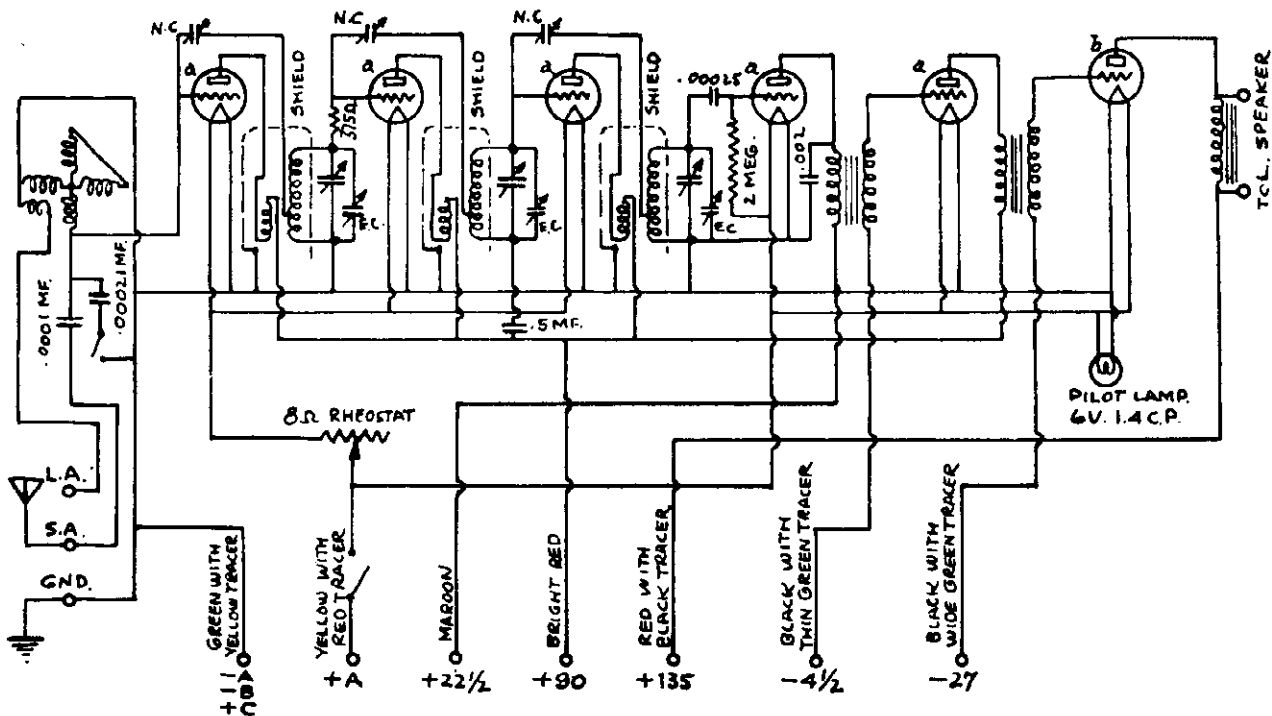
1st A.F.

CX-350

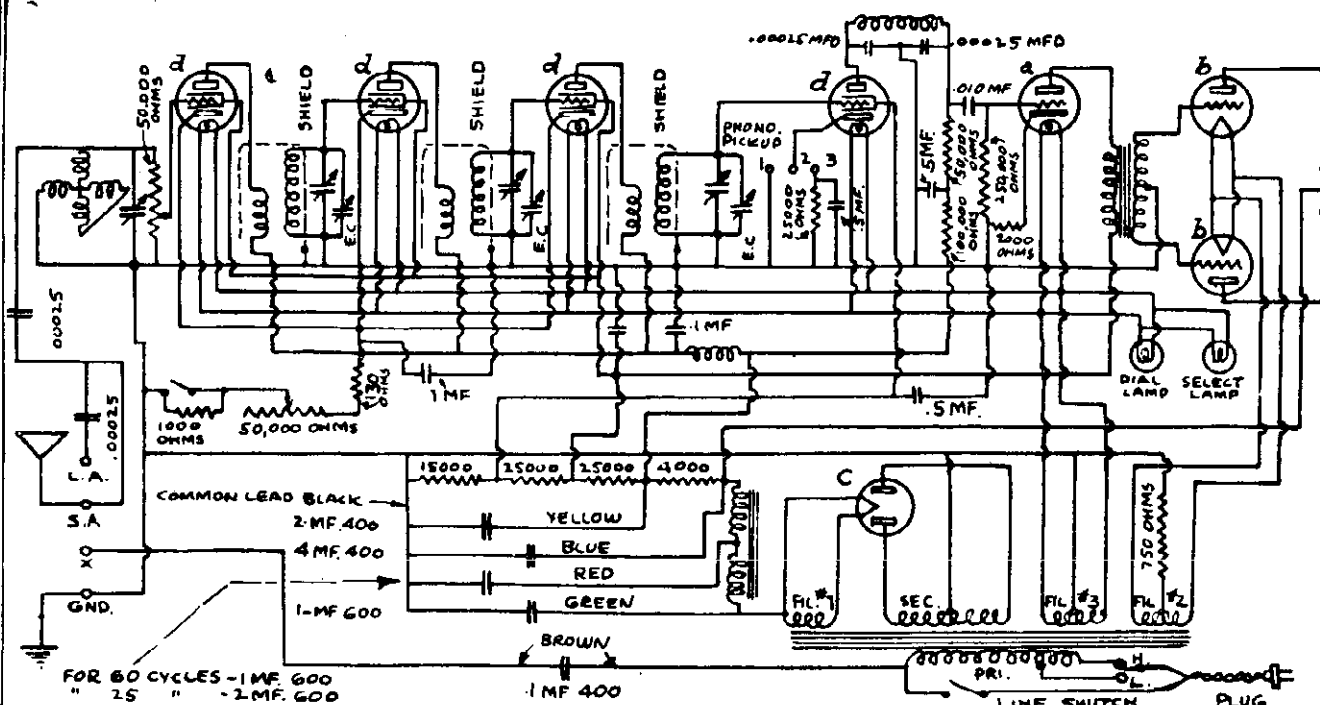
2nd A.F.

MODEL NR-53  
MODEL NR-90-S

# FREED RADIO AND TELEVISION CORP.

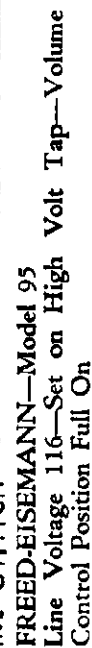


Model NR-53



Model NR-90-S

MODEL NR-95 AC



REORDERING PLUG IN SOCKET OF SET													
TYPE AND NO.	POSITION OF PLUG	TUNE OUT			TUNE IN			YARD IN YESTER			PLATE MARCH CHARGE CAP	PLATE SCREEN	
		1ST ETC	2ND ETC	3RD ETC	A VOLTS	B VOLTS	C VOLTS	A VOLTS	B VOLTS	C VOLTS			
227	1st RF	2.40	76	2.25	71	4	5	2.5	2.5	2.8	2.8	2.8	
227	2nd RF	2.40	76	2.25	71	4	5	2.5	5.6	2.8	2.8	2.8	
227	3rd RF	2.40	75	2.25	71	4	5	2.5	5.6	2.8	2.8	2.8	
227	4th RF	2.40	75	2.25	71	4	5	2.5	5.6	2.8	2.8	2.8	
227	Det.	2.40	82	2.25	15	1.5	1.0	1.7	4.8	2.4	2.4	2.4	
229	1st A	2.40	82	2.25	67	4	5	2.4	2.8	2.4	2.4	2.4	
245	2nd A	2.57	203	2.37	183	35	-	22	26	4	4	4	
245	2nd A	2.57	206	2.37	183	35	-	22	26	4	4	4	
290	Rect.	5.5	-	4.8	-	-	-	64	-	-	-	-	

NR-95  
(A.C.)

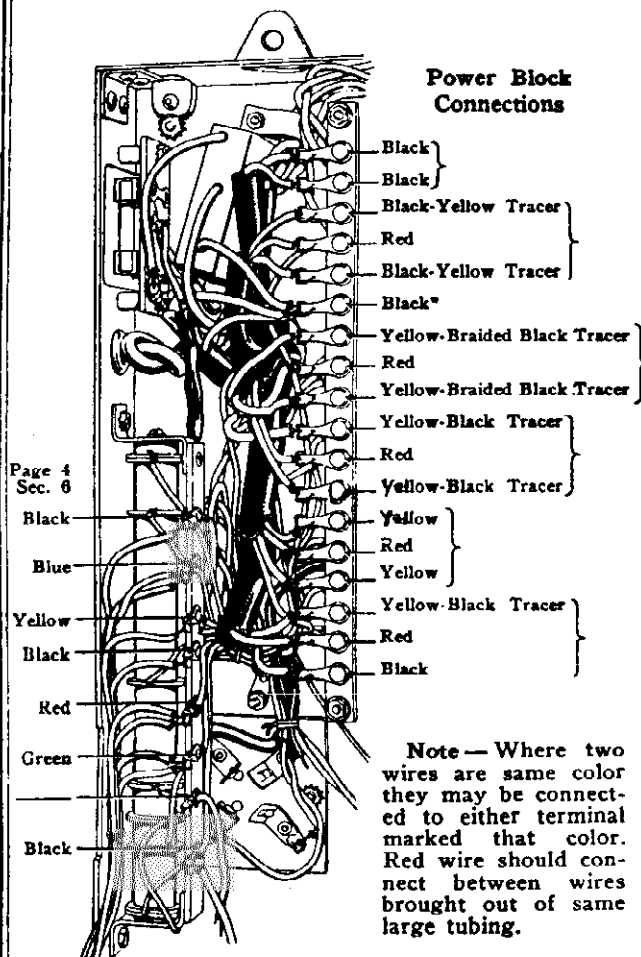
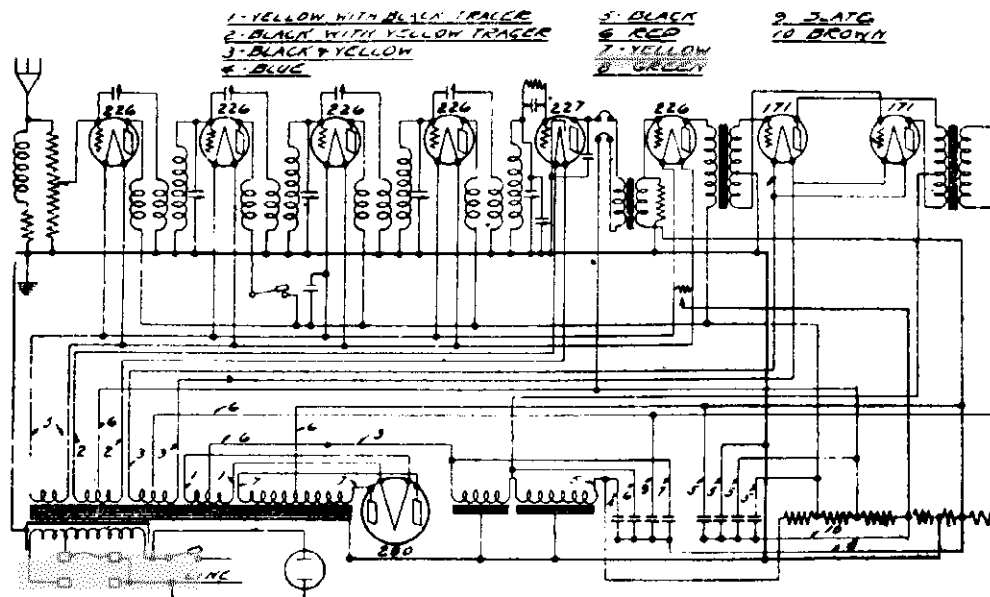
FOR 60 CYCLES - IMF 600  
FOR 25 CYCLES - 2MF 600

(A.C.)

CX-360	<input type="radio"/>	Rest.	C-327	<input type="radio"/>	1st R.F.
	<input type="radio"/>	2nd R.F.	E-327	<input type="radio"/>	2nd R.F.
CX-345	<input type="radio"/>	A.F.	C-327	<input type="radio"/>	3rd R.F.
	<input type="radio"/>	2nd A.F.	C-327	<input type="radio"/>	4th R.F.
CX-345	<input type="radio"/>	1st A.F.	C-327	<input type="radio"/>	Det.

## JESSE FRENCH &amp; SONS PIANO CO.

MODEL 8 Tube AC



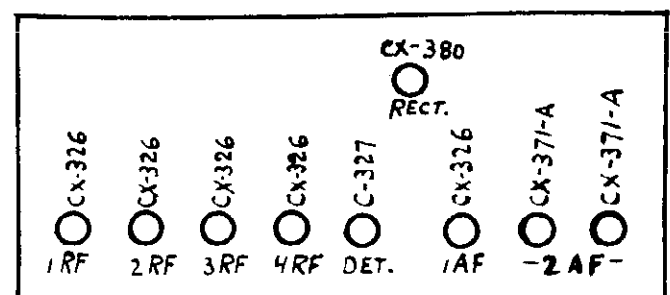
JESSE FRENCH

8 - A.C. Power Set.

Line Voltage 116—2nd A. F. Stage—2 Tubes Push Pull

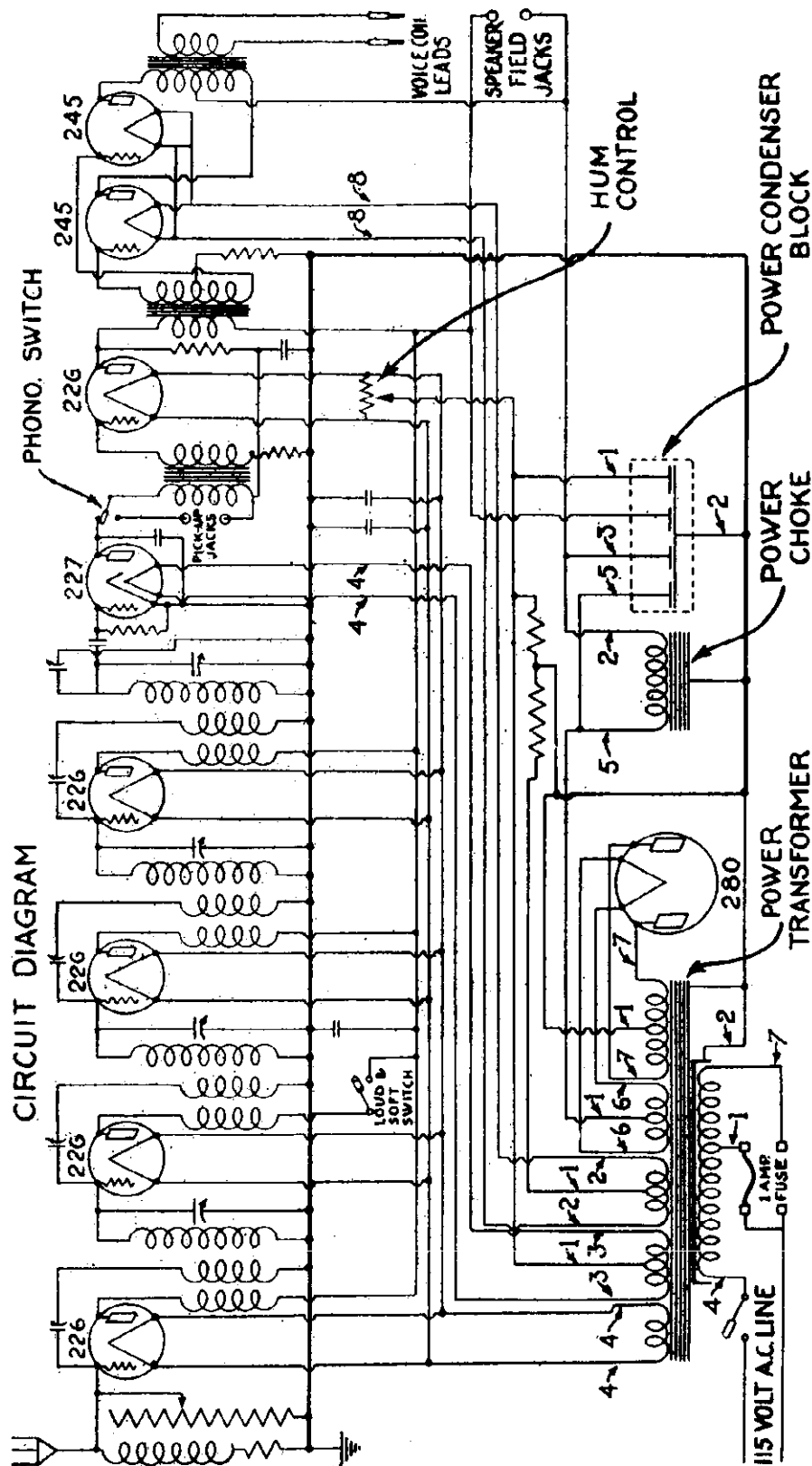
TUBE NO. IN ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST RT DET ETC	TUBE OUT					TUBE IN TESTER			
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS	OUTSIDE VOLTS	NORMAL PLATE MA	PLATE MA GRID TEST	PLATE MA CHANGE
226	1st. R.F.		1.55	117	1.5	110	5.5	-	6.5	10.5	4.0
226	2nd. R.F.		1.55	117	1.5	110	5.5	-	6.5	10.5	4.0
226	3rd. R.F.		1.55	117	1.5	110	5.5	-	6.5	10.5	4.0
226	4th. R.F.		1.55	117	1.5	110	5.5	-	6.5	10.5	4.0
2-7	Detector		2.40	125	2.2	25	45	-	1.4	1.4	0.0
226	1st. A.F.		1.55	107	1.5	100	7.5	-	3.5	7.0	3.5
171A	2nd. A.F.		5.30	170	5.0	158	33	-	18.0	21.0	3.0
171A	2nd. A.F.		5.30	170	5.0	158	33	-	18.0	21.0	3.0

Note—Where two wires are same color they may be connected to either terminal marked that color. Red wire should connect between wires brought out of same large tubing.



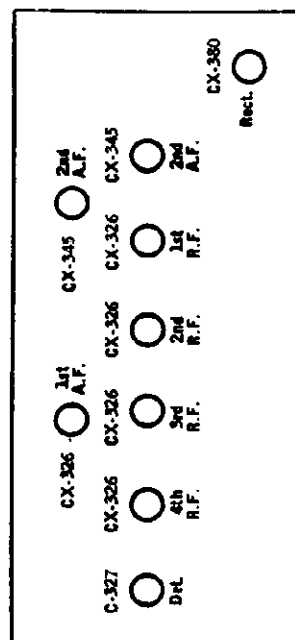
MODEL 5-093

**JESSE FRENCH & SONS PIANO CO.**



JESSE FRENCH

Model 5-093



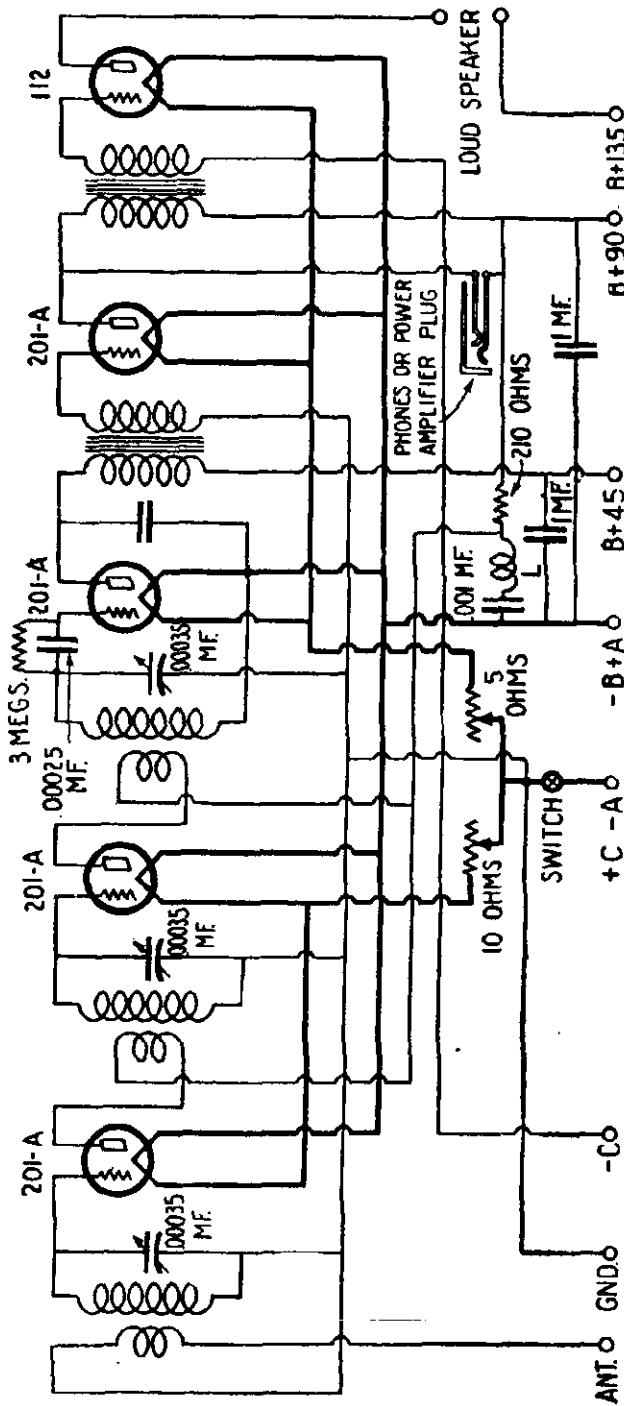
**Line Voltage 120—Set on 120 Volt Tap—Volume Control Position Max**  
**Note: "C" Bias Voltage Reading on Audio tubes is low due to the current draw of the set tester and high resistances in the set.**

Note: "C" Bias Voltage Reading on Audio tubes is low due to the current draw of the set tester and high resistances in the set.

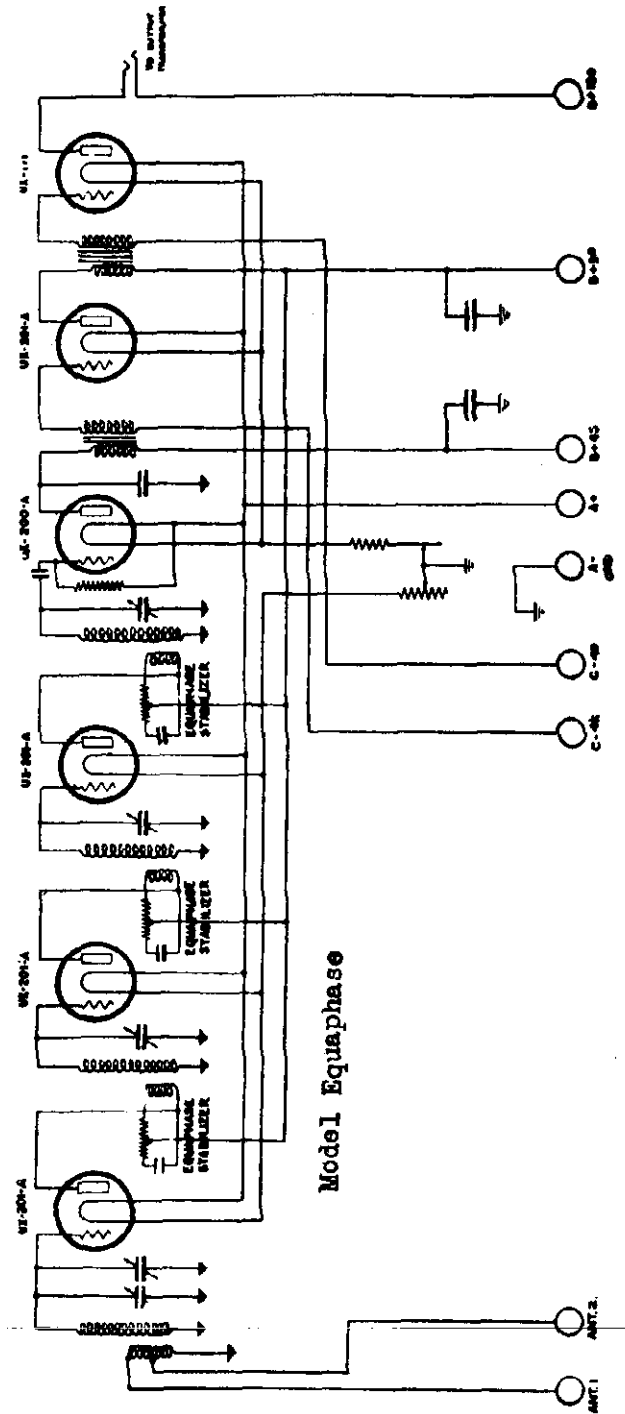
[illegible]

CHARLES FRESHMAN CO., INC.

MODEL Masterpiece  
MODEL Equaphase



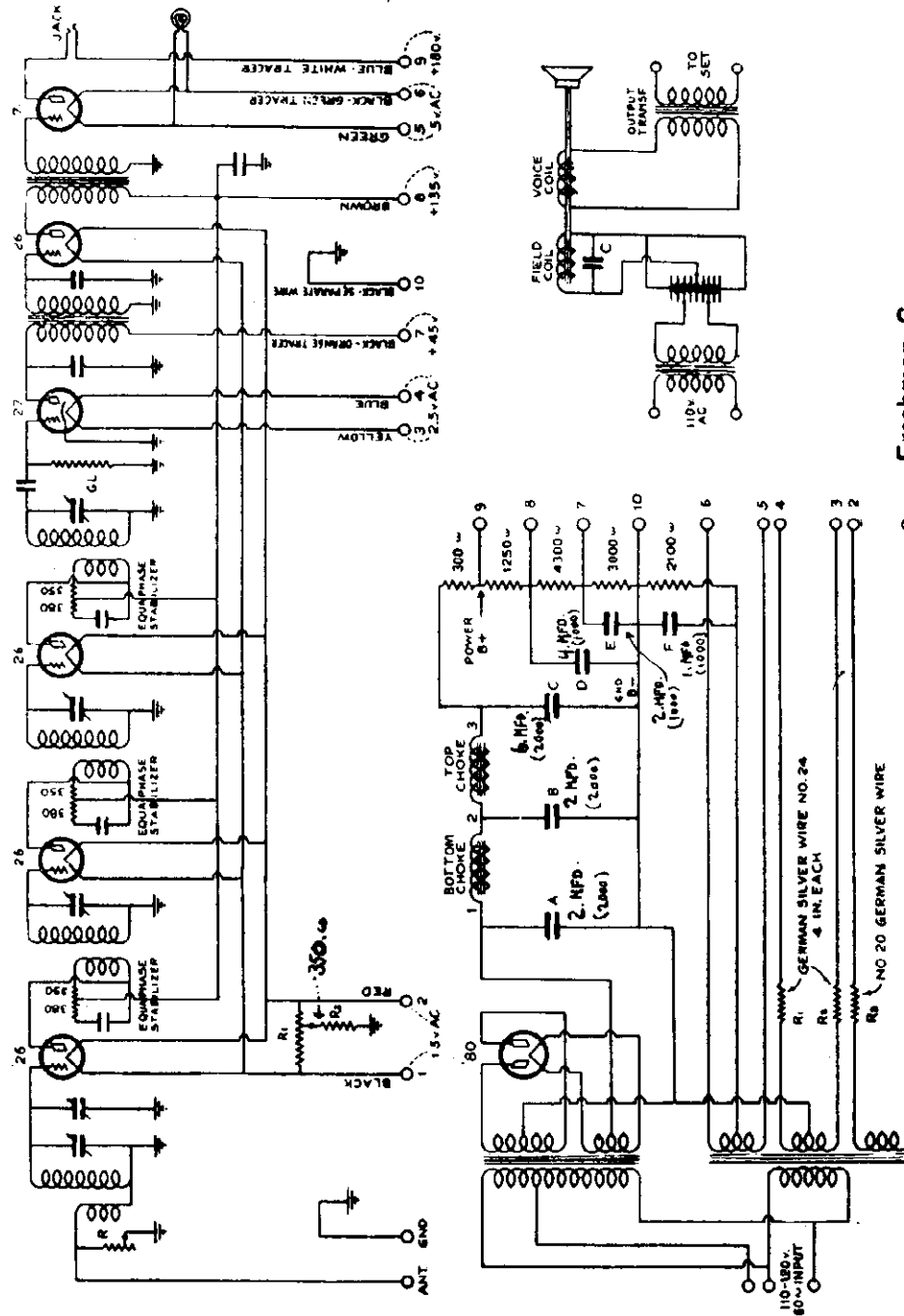
Model  
Masterpiece



Model Equaphase

MODEL G

CHARLES FRESHMAN CO., INC.



FRESHMAN—Model "G"  
Line Voltage 120—120 Volt Tap

TUBE NO.	TUBE	POSITION OF TUBE IN SET	TUBE OUT				TUBE IN TEST			
			A	B	C	D	A	B	C	D
1	226	1st. A.F.	1.45	1.40	1.35	1.30	1.45	1.40	1.35	1.30
2	226	2nd. A.F.	1.45	1.40	1.35	1.30	1.45	1.40	1.35	1.30
3	226	3rd. A.F.	1.45	1.40	1.35	1.30	1.45	1.40	1.35	1.30
4	226	Detector	2.5	1.40	2.00	50	0	0	0	0
5	226	1st. A.F.	1.45	1.40	1.35	1.30	1.45	1.40	1.35	1.30
6	226	2nd. A.F.	1.45	1.40	1.35	1.30	1.45	1.40	1.35	1.30
7	226	Rectifier	5.5	200	5.10	175	37	16.0	16.0	2.0
8	226	Rectifier	5.5	200	5.10	175	37	16.0	16.0	2.0

(A.C.)

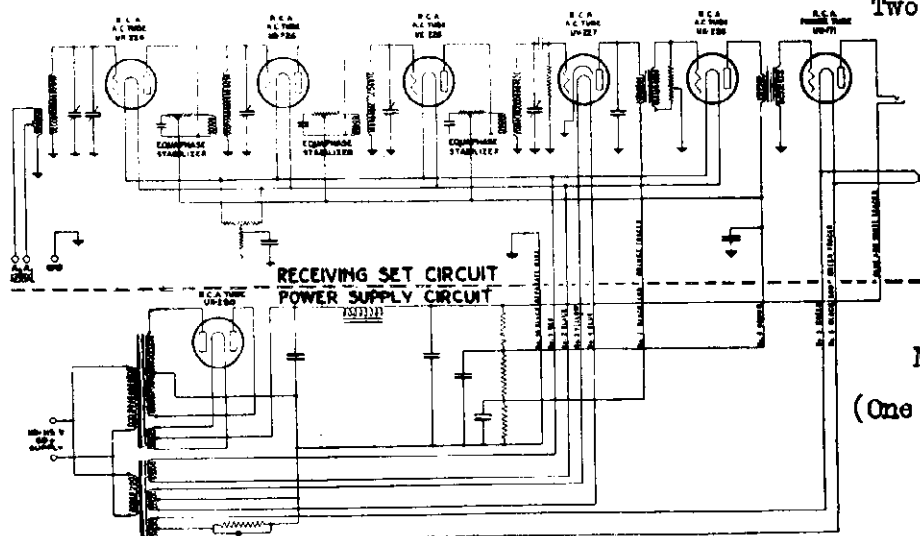
Freshman G

CX-371A	2nd A.F.	CX-326	2nd R.F.	CX-326	3rd R.F.	CX-326	1st A.F.	C-527	0nt.
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A. C. operated. To be used with model 9-60-5 Power Supply Unit using a CX-380.

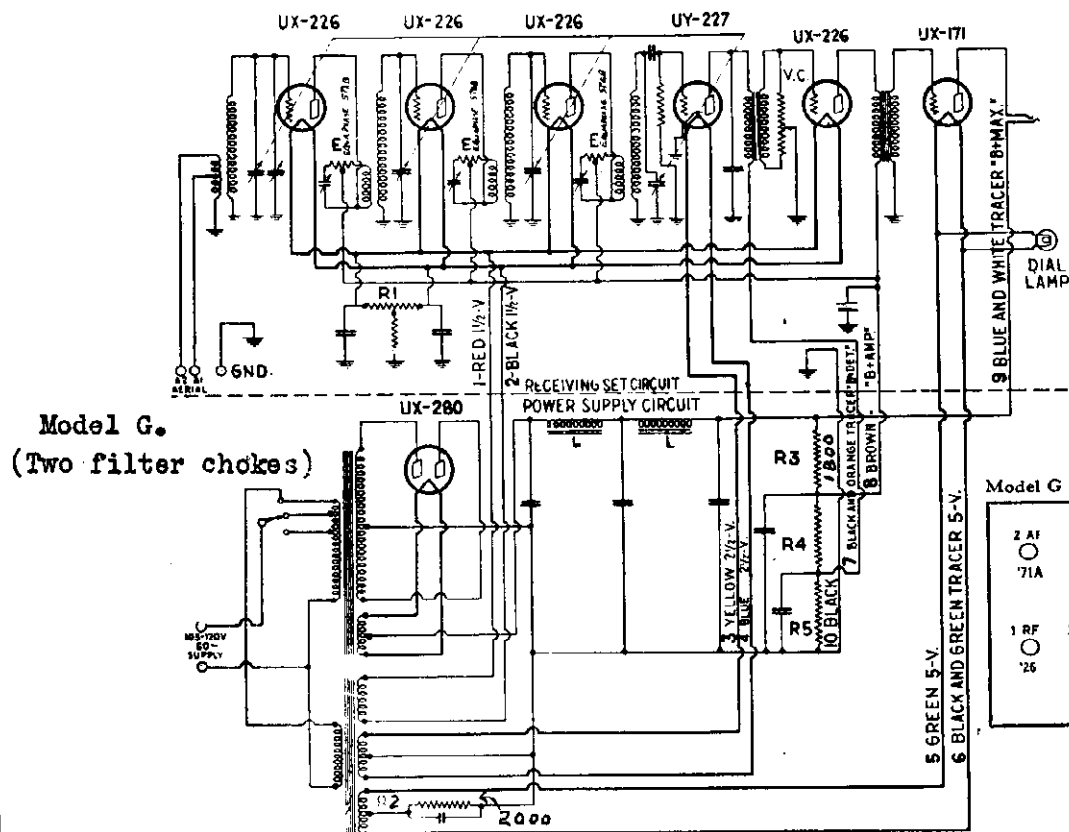
## CHARLES FRESHMAN CO., INC.

MODEL G, with  
G-60-S Power Unit  
Two Types.

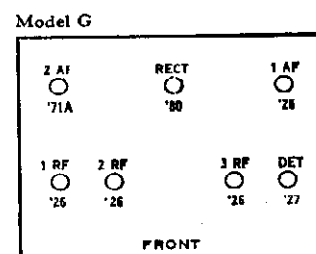


Model G.  
(One filter choke)

Schematic diagram of Model "G" Chassis and Model G-60-S Power Supply.  
Note the one choke coil in Power Supply Circuit.



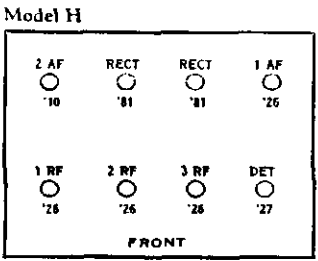
Model G.  
(Two filter chokes)



Circuits of the Freshman "Model G" Equaphase and the "Model G-60-S" Power Supply Unit.

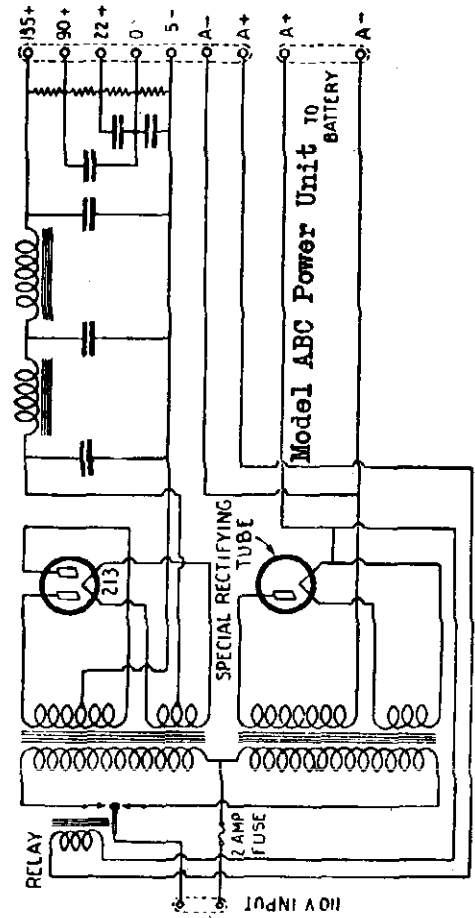
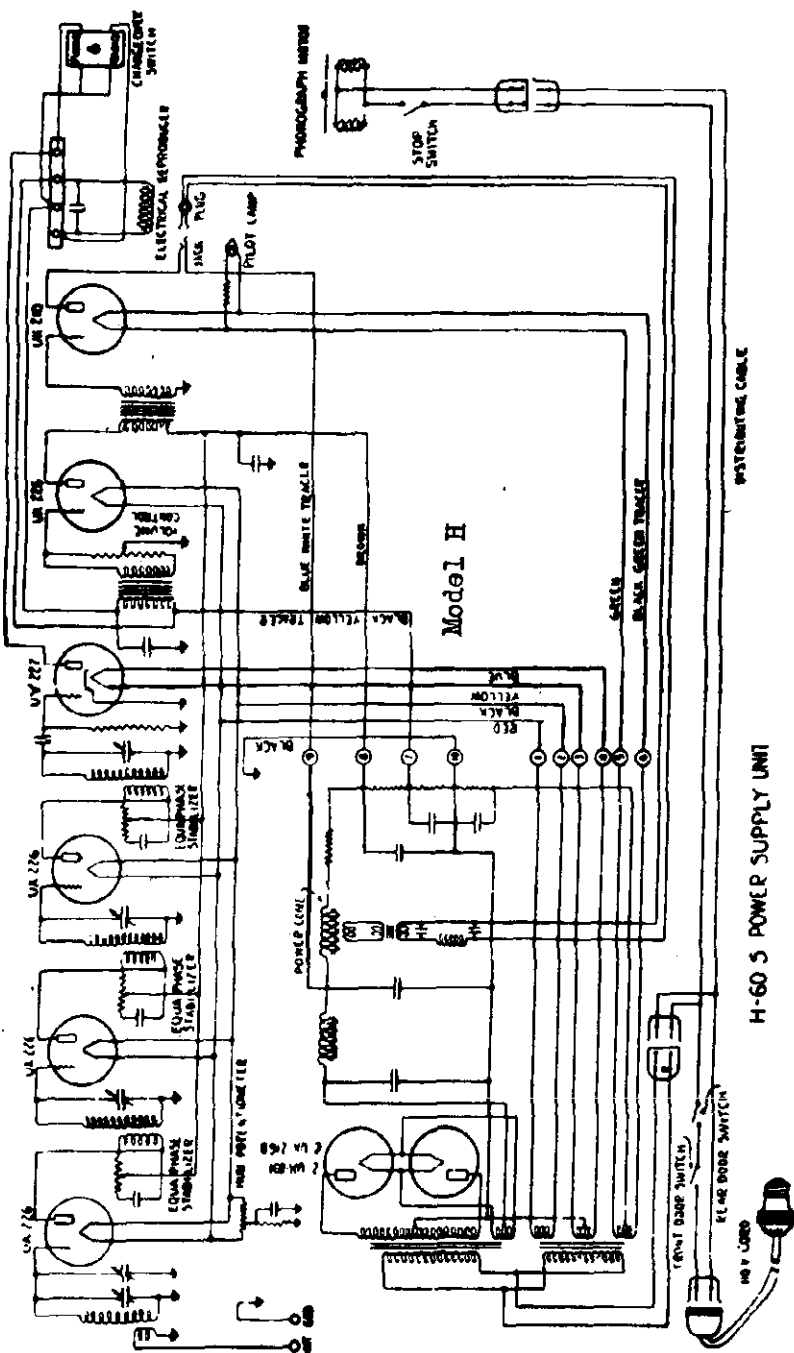
Tube	Fil. Voltage.	Plate Voltage.	Grid Voltage
RF1	1.5	130	7.
RF2	1.5	130	7.
RF3	1.5	130	7.
Det.	2.5	50	0.
AF1	1.5	130	7.
AF2	5.0	180	40.

MODEL H  
MODEL ABC Power Unit CHARLES FRESHMAN CO., INC.

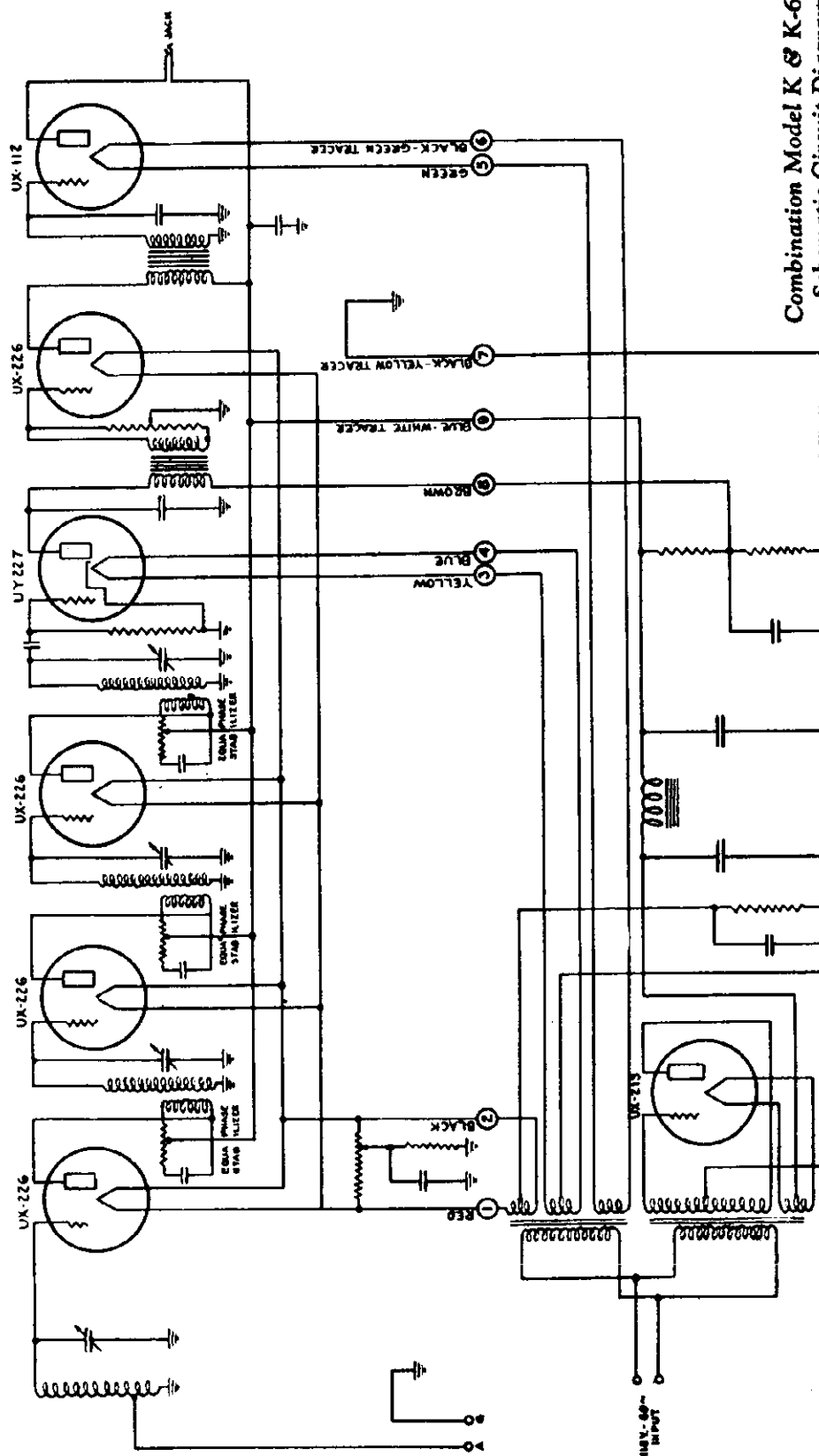


FRESHMAN—Model "H"  
Line Voltage 120—120 Volt Tap

TYPE OF TUBE	POSITION	TYPE OF TUBE	RESISTANCE VALUE IN MEGOHMS OF RESISTOR				CATHODE VOLTAGE	NORMAL PLATE VOLTAGE	PLATE CURRENT	PLATE RESISTANCE
			1ST A.F. DET. ETC.	1ST A.F. DET. ETC.	1ST A.F. DET. ETC.	1ST A.F. DET. ETC.				
225	1st. A.F.	1.45	148	1.35	140	10	5.3	9.6	4.3	
226	2nd. A.F.	1.45	148	1.35	140	10	5.3	9.6	4.3	
227	3rd. A.F.	1.45	148	1.35	140	10	5.3	9.6	4.3	
228	DET.	1.45	148	1.35	140	10	5.3	9.6	4.3	
229	1st. A.F.	1.45	148	1.35	140	10	5.3	9.6	4.3	
230	2nd. A.F.	1.45	148	1.35	140	10	5.3	9.6	4.3	
231	RECTIFIER									



### Combination Model K & K-60-S Schematic Circuit Diagram.

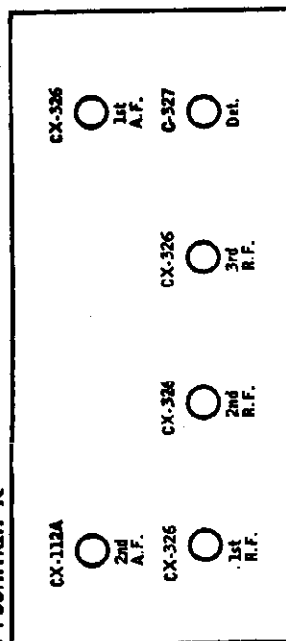


**FRESHMAN—Model "K"**  
**Line Voltage 120—120 Volt Tap**

TIME NO IN MAGNET	TYPE TIME	POSITIONS AT 10° N., 10° E., ETC.	TIME DMT				MAGNETIC PLANT IN MAGNET OF SET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			VOLTS	A	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOLFS	WOL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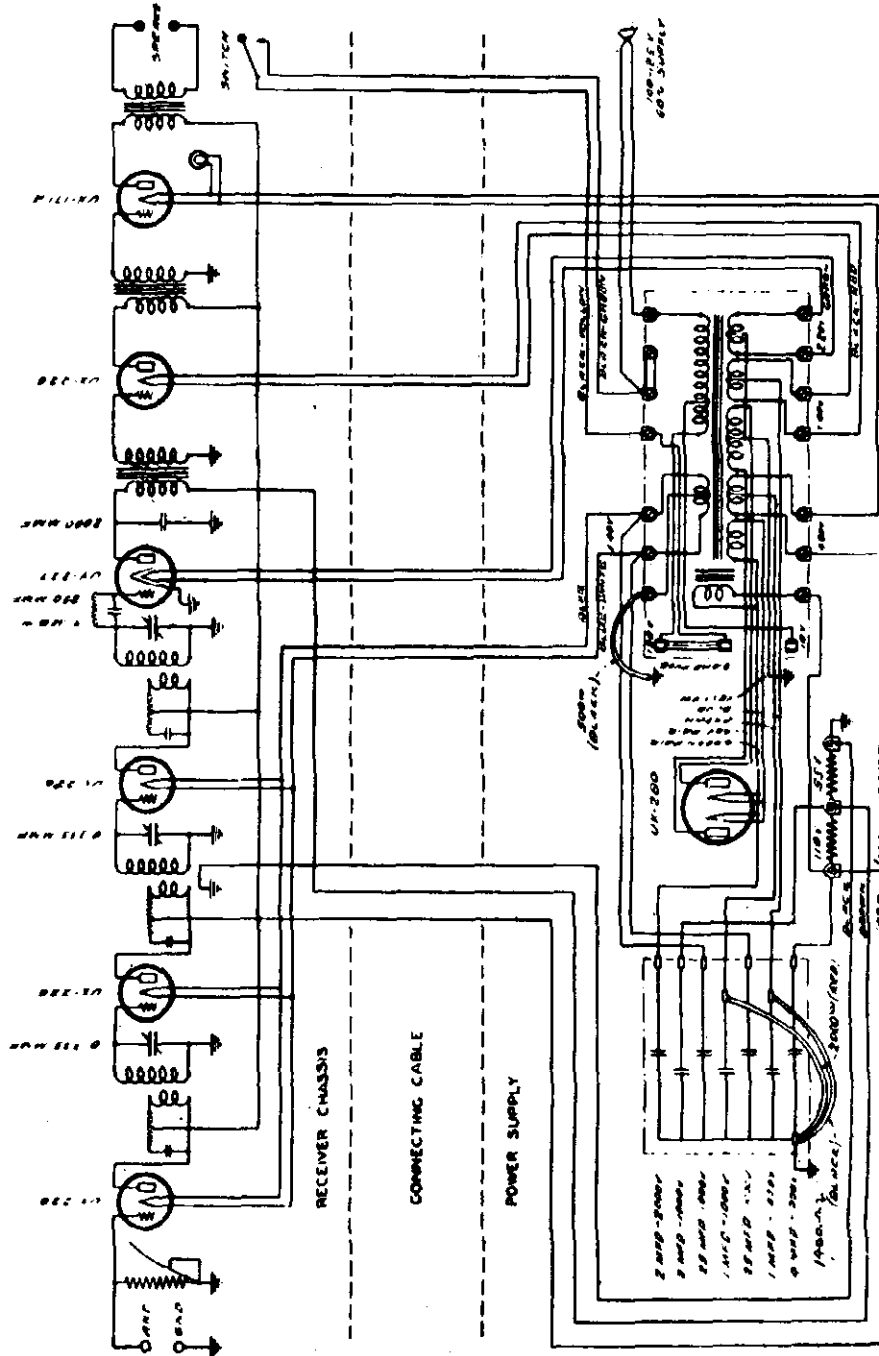
(A.C.)

**Freshman K**



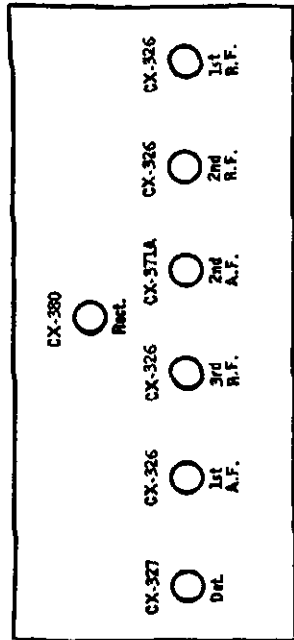
MODEL M

CHARLES FRESHMAN CO., INC.

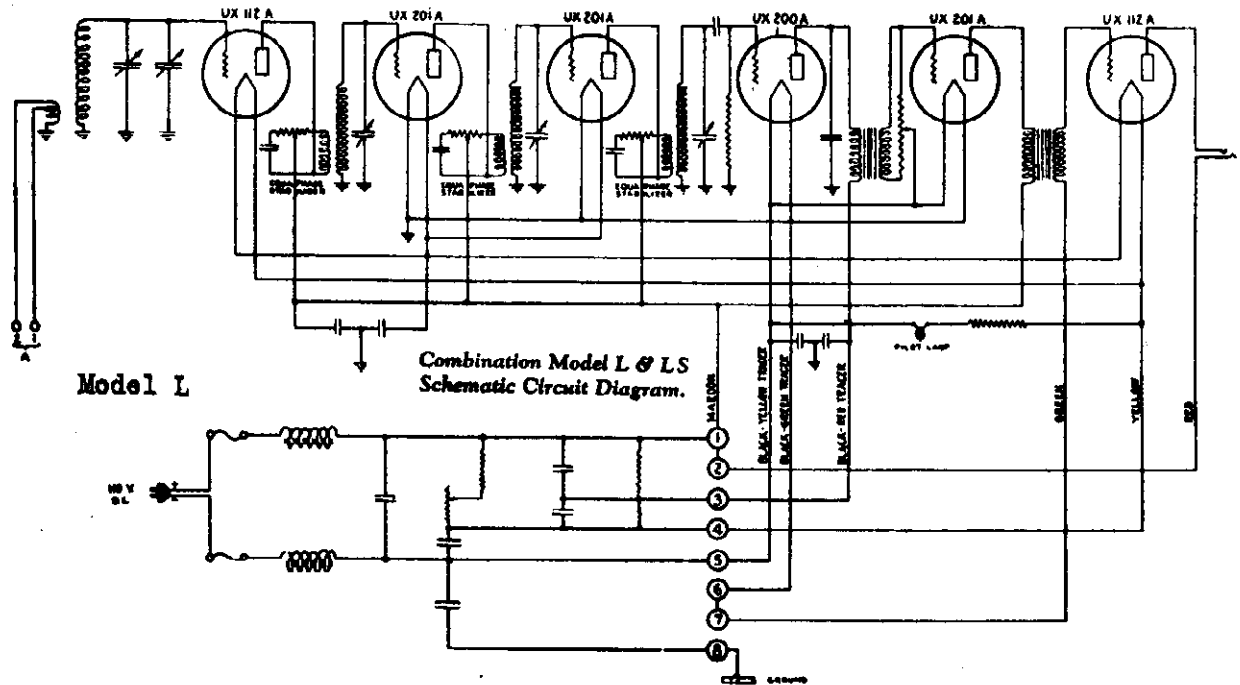


FRESHMAN—Model "M"  
Line Voltage 120—120 Volt Tap

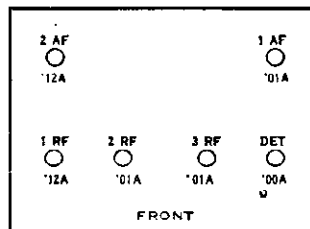
TUBE	TUBE NO.	TUBE TYPE	TUBE SYMBOL	TUBE DATA									
				TYPE	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS
1	225	1st A.F.	6X250A	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2
2	226	2nd A.F.	6X326	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2
3	227	3rd A.F.	6X326	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2
4	228	Rectifier	6X326	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2
5	171A	2nd A.F.	6X326	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2
6	229	Rectifier	6X326	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2
7	230	Rectifier	6X326	120	1.45	1.58	1.35	1.50	1.2	—	5.3	9.7	4.2



## CHARLES FRESHMAN CO., INC.

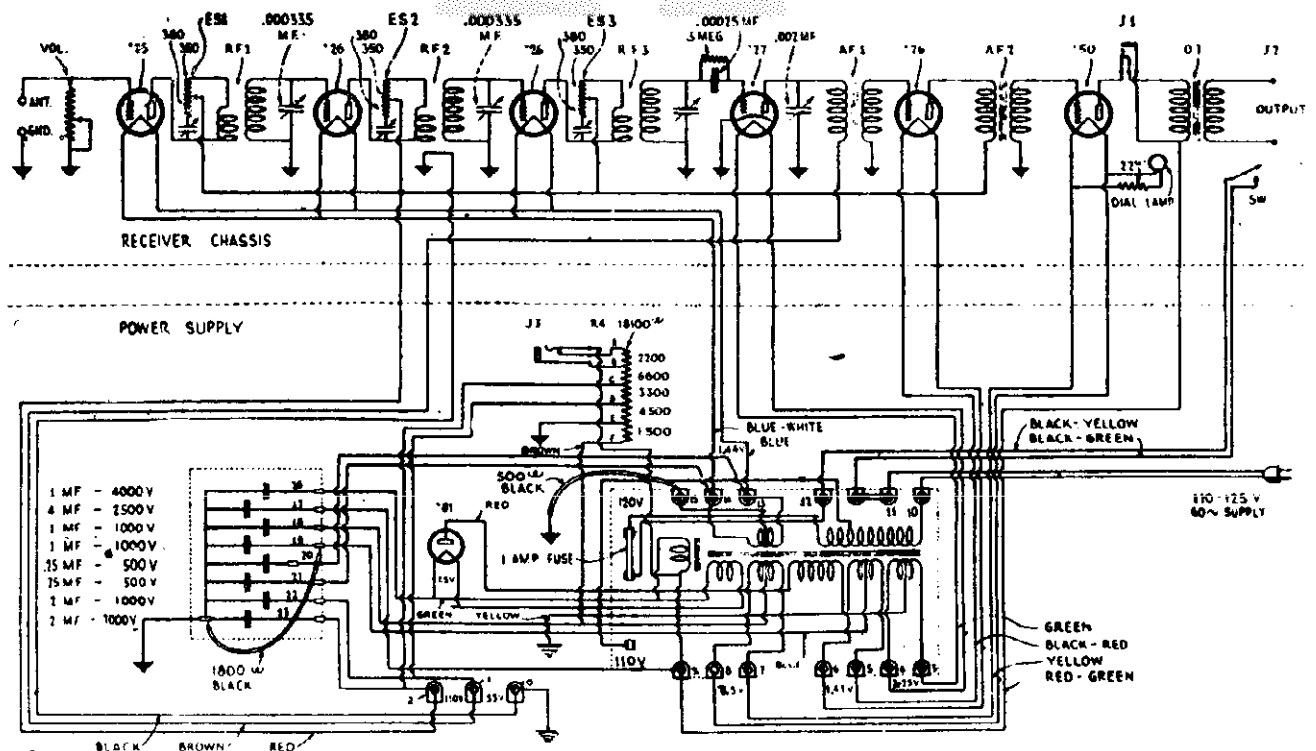
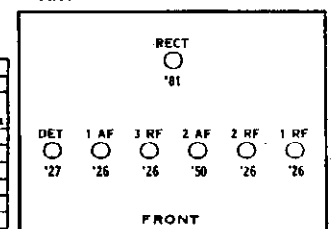
MODEL L  
MODEL N

Model L

FRESHMAN—Model "N"  
Line Voltage 119—120 Volt Tap

TUBE NO. IN SET	TYPE OF TUBE	POSITION OF TUBE IN SET, ETC.	RECOMMENDED PLUG IN SOCKET OF SET									
			TUBE OUT					TUBE IN TESTER				
			A VOLTS	B VOLTS	C VOLTS	D VOLTS	E VOLTS	OUTER VOLTS	NORMAL PLATE VOLTS	PLATE RES. OHMS	PLATE RES. OHMS	PLATE RES. OHMS
226	1st. R.F.		1.45	100	1.35	90	6	—	3.2	7.4	4.2	—
226	2nd. R.F.		1.45	100	1.35	90	6	—	3.2	7.4	4.2	—
226	3rd. R.F.		1.45	100	1.35	90	6	—	3.2	7.4	4.2	—
227	Detector		2.40	100	2.25	50	0	—	2.2	2.2	0.0	—
226	1st. A.F.		1.45	100	1.35	90	6	—	3.2	7.4	4.2	—
250	2nd. A.F.		1.45	100	1.35	90	6	—	3.2	7.4	4.2	—
881	Rectifier		—	—	—	—	—	—	36.0	45.5	7.8	—

Model N

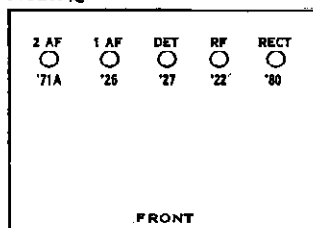




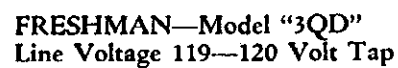


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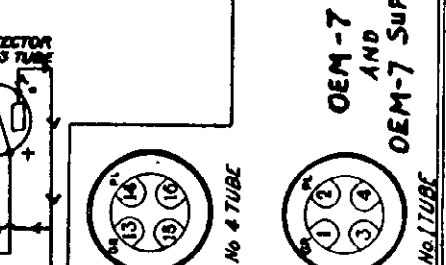
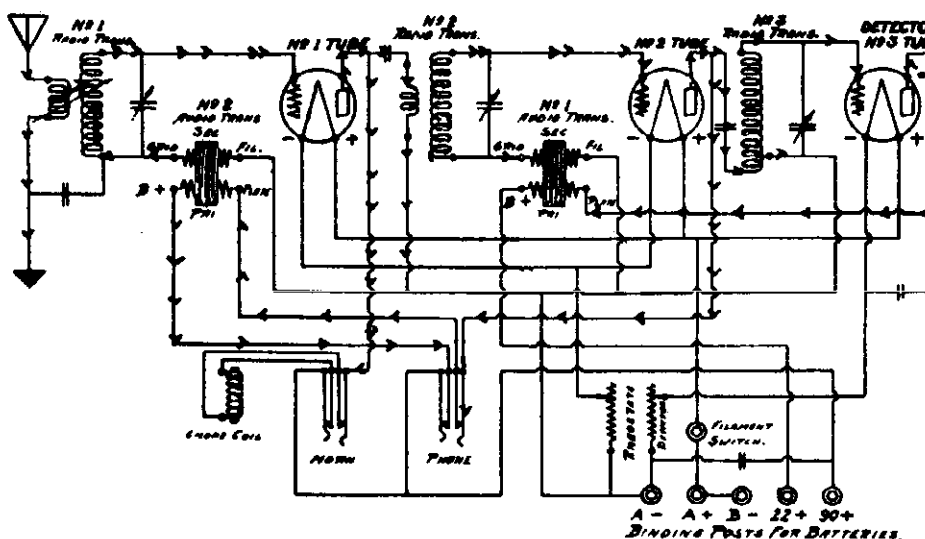
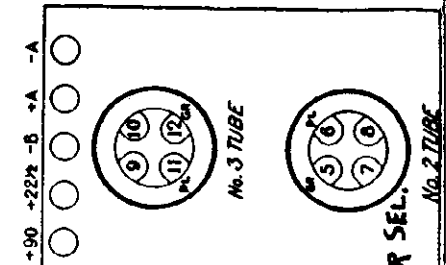
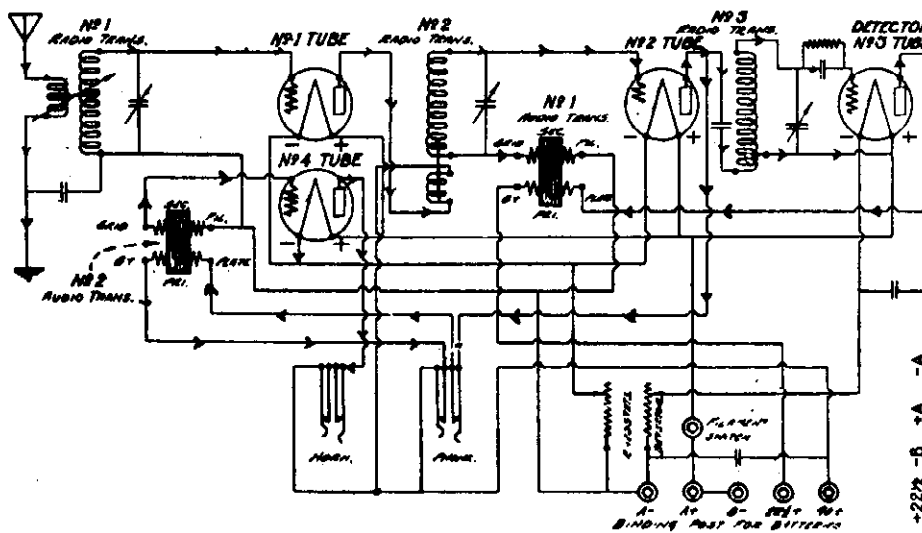
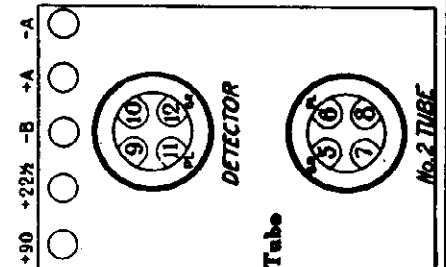
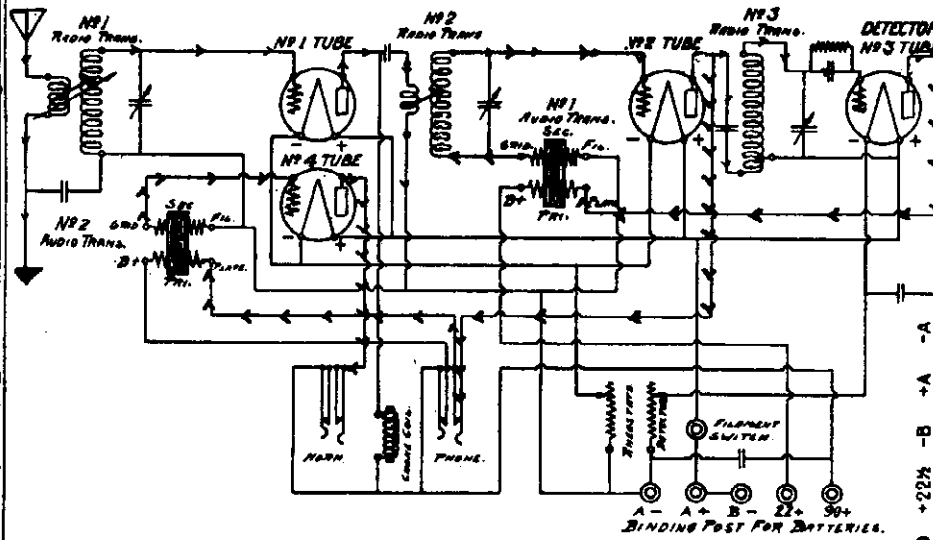
### Model Q



TUBE NO. OR ORDER	TYPE OF TUBE	POSITION OF TUBE 1ST R.F., DET., ETC.	WEEDHOF. PLUG IN SOCKET OF SET									
			TUBE OUT					TUBE IN TESTER				
			A VOLTS	B VOLTS	A VOLTS	B VOLTS	C VOLTS	CATHODE VOLTS	NORMAL PLATE M.A.	PLATE M.A. @ 100 TEST	PLATE M.A. @ 0.0	
1	222	1st. R.F.	3.10	162	3.00	150	5.0					
2	227	Detector	2.25	150	1.30	50	0.0		2.75	2.75	0.0	
3	226	1st. A.F.	1.45	150	1.35	140	10		4.2	8.6	4.4	
4	171A	2nd. A.F.	4.30	140	4.60	125	25		16.5	18.0	1.5	
5	280	Rectifier	"	"	4.50	"	"		24.0	"	"	

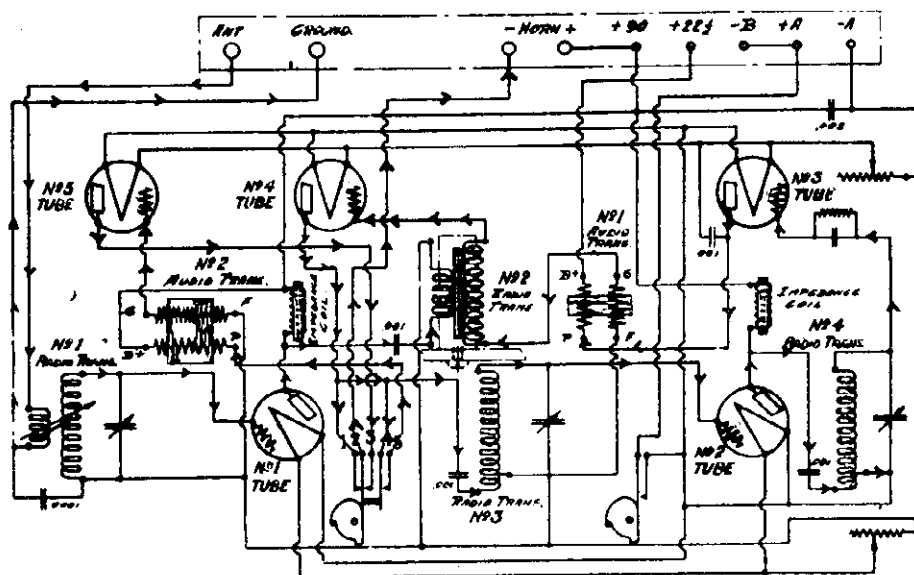
[illegible]

GENERAL MOTORS RADIO CORP. MODEL OEM-7 4 Tube  
MODEL OEM-7 Super-Sel.  
MODEL OEM-11 3 Tube



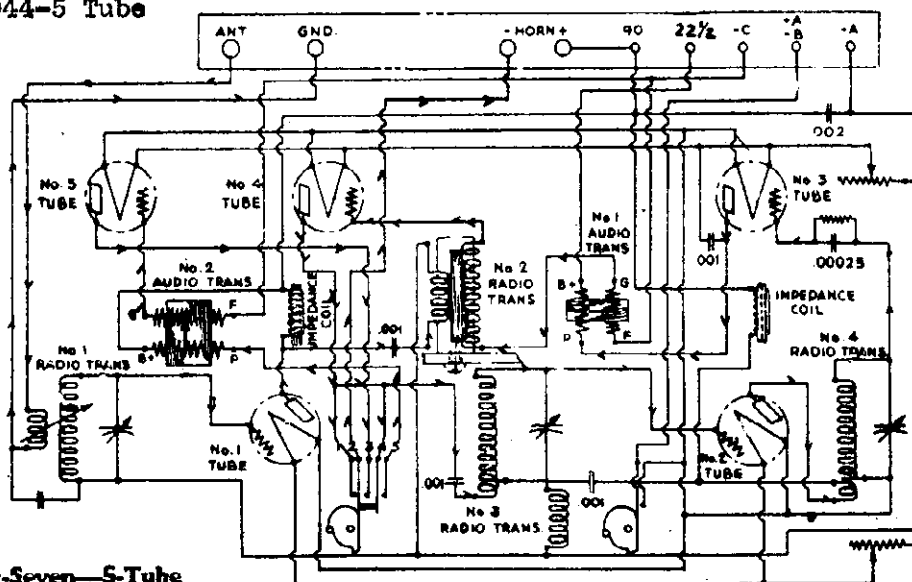
MODEL 5044-5 Tube  
MODEL 527-5 Tube

# GENERAL MOTORS RADIO CORP.

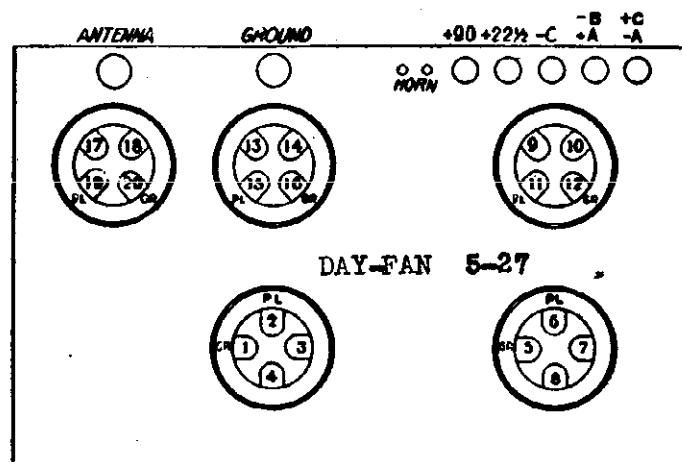
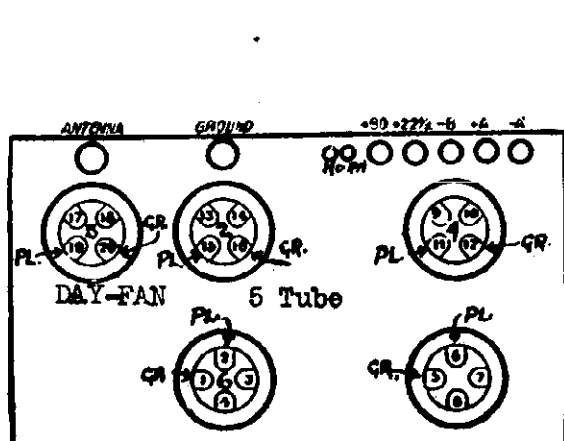


## DAY-FAN FIVE

Model 5044-5 Tube

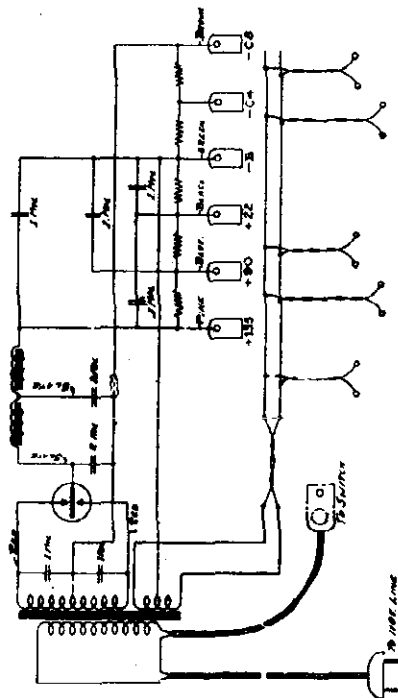
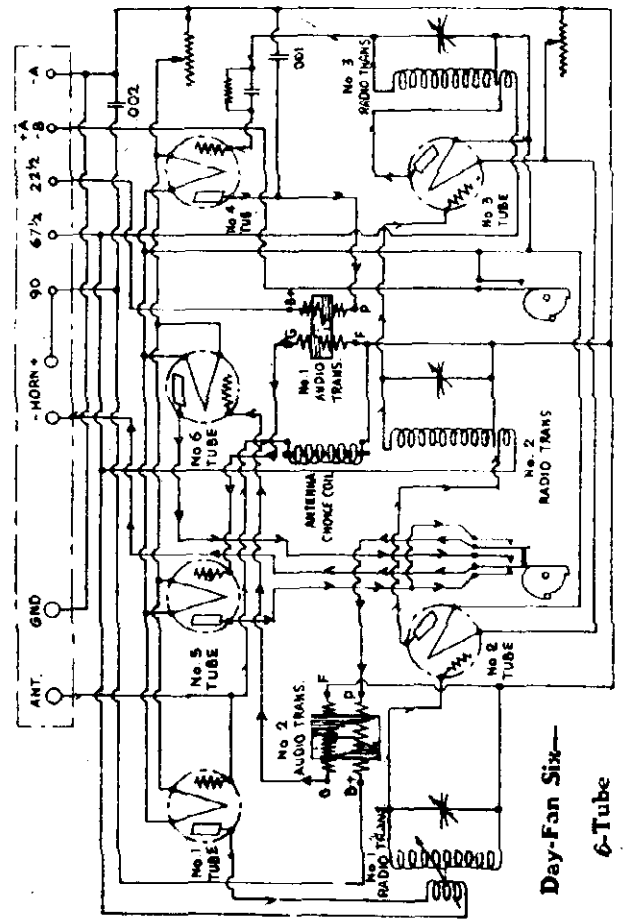
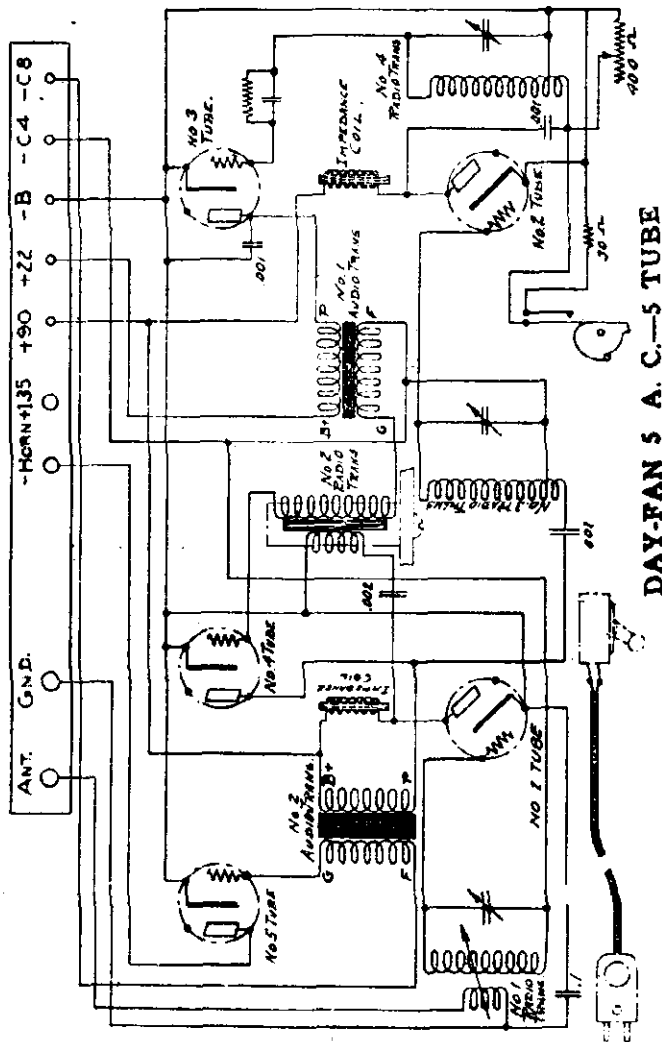


Day-Fan Five Twenty-Seven—5-Tube



# GENERAL MOTORS RADIO CORP.

MODEL Day-Fan 5-AC  
MODEL Day-Fan 5  
MODEL Day-Fan 5-AC SPU

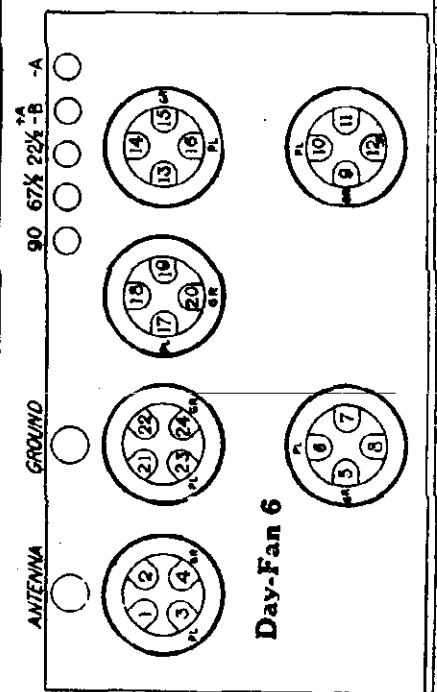


POWER SUPPLY FOR 5 TUBE A. C. SET

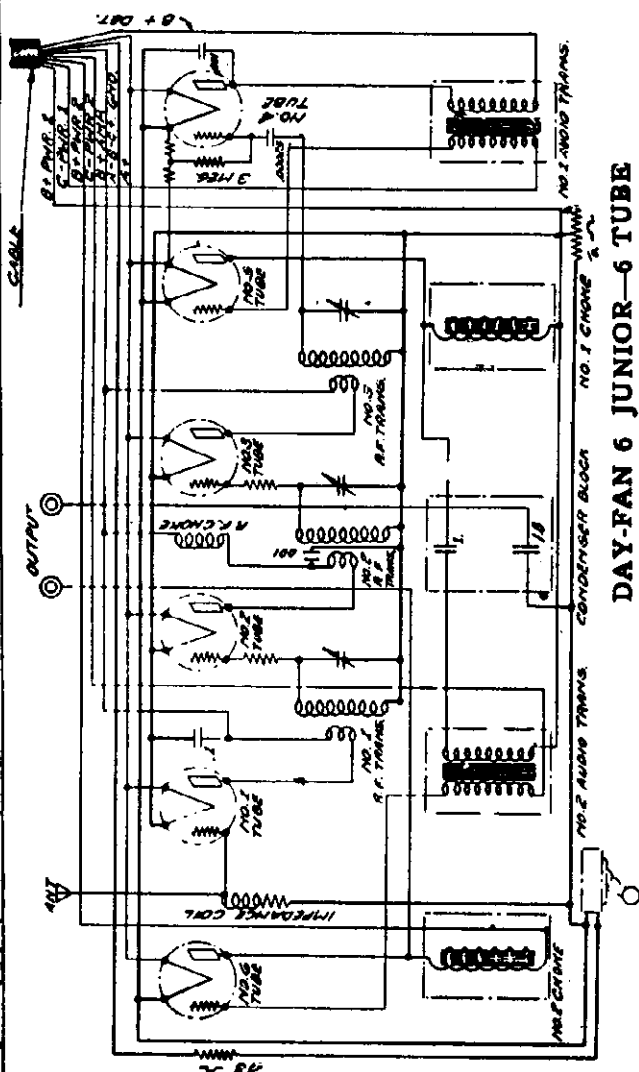
SUB-PANEL OF DAY-FAN 5 TUBE A. C.

## CABLE COLOR CODE

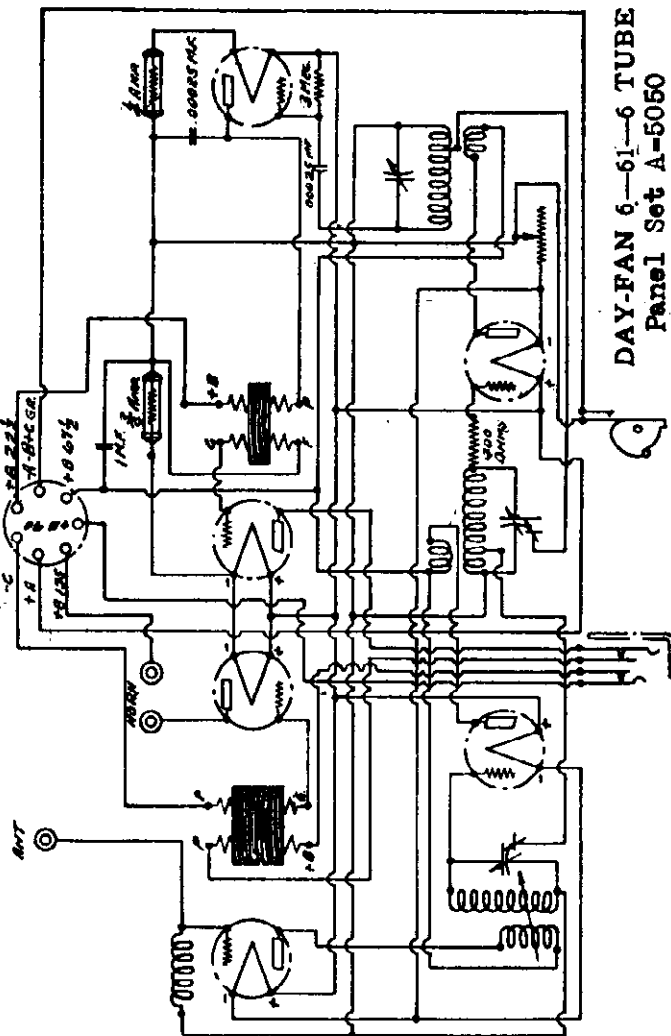
Terminal	Wire Color	Power
Horn +	Red	135
No. 1	Maroon	90
No. 2	Red and Black	22
No. 3	Black	B + C
No. 4	Yellow and Black	-C4
No. 5	Yellow Solid	-C8



MODEL Day-Fan 6 Jr. • GENERAL MOTORS RADIO CORP.  
MODEL Day-Fan 6-61  
(5050)



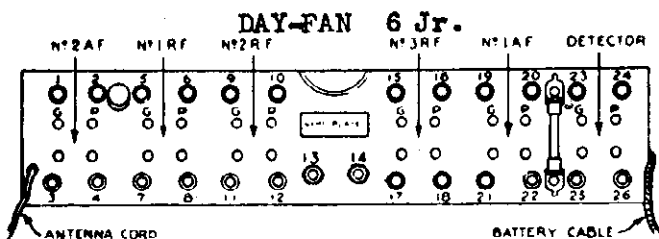
DAY-FAN 6 JUNIOR-6 TUBE



DAY-FAN 6-61-6 TUBE  
Panel Set A-5050

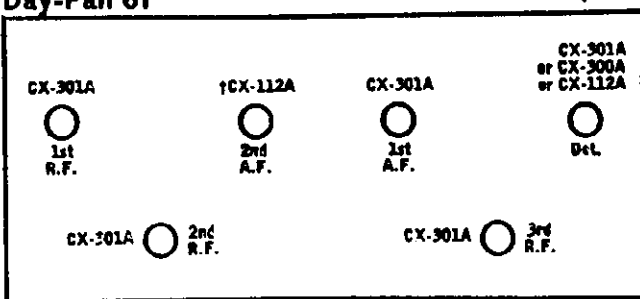
STANDARD, BATTERY CABLE CONNECTIONS

Color of Wire	(DAY-FAN 6 Jr.)	N. E. M. A. Rating
Red	.....	B + Pwr. 2.
Red and White	.....	B + Pwr. 1.
Red and Maroon	.....	B + Amp.
Maroon	.....	B + Det.
Yellow	.....	A +
Green with Red and Yellow tracers	.....	B -, A -, C +.
Black and Green	.....	C - Pwr. 1.
Black and White	.....	C - Pwr. 2.



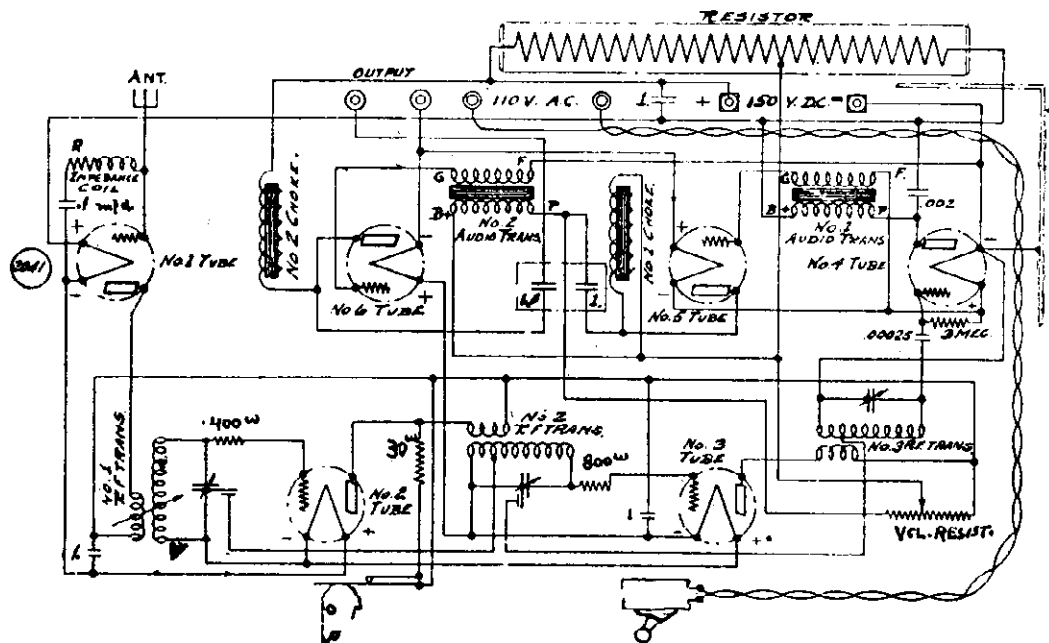
Day-Fan 61

(Batt.)

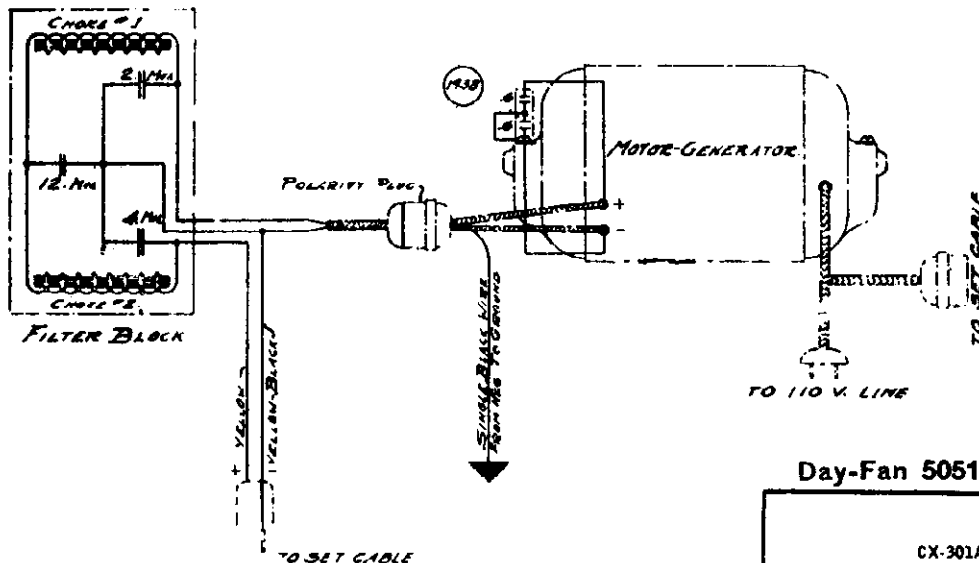


GENERAL MOTORS RADIO CORP.

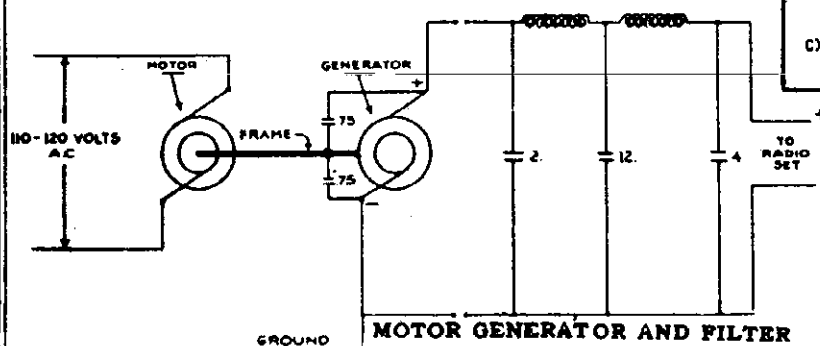
MODEL Day-Fan 5051  
(MG Set)  
Motor-Generator



MOTOR GENERATOR SET-6 TUBE

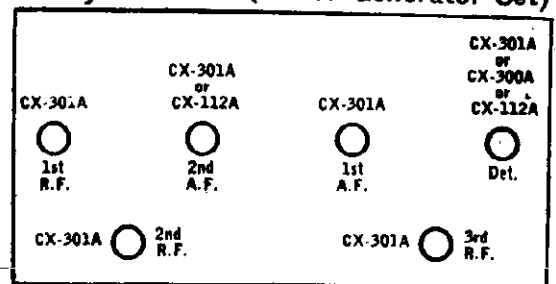


MOTOR GENERATOR AND FILTER



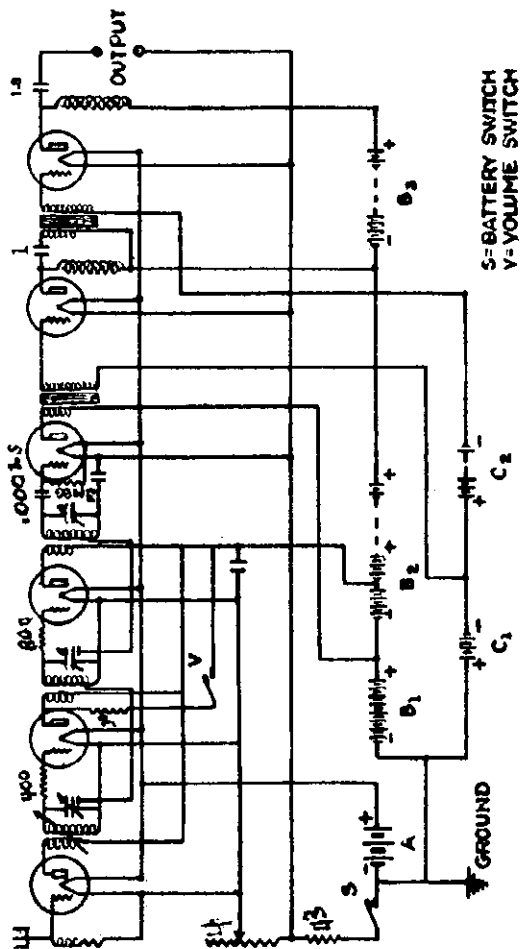
MOTOR GENERATOR AND FILTER

Day-Fan 5051 (Motor Generator Set)

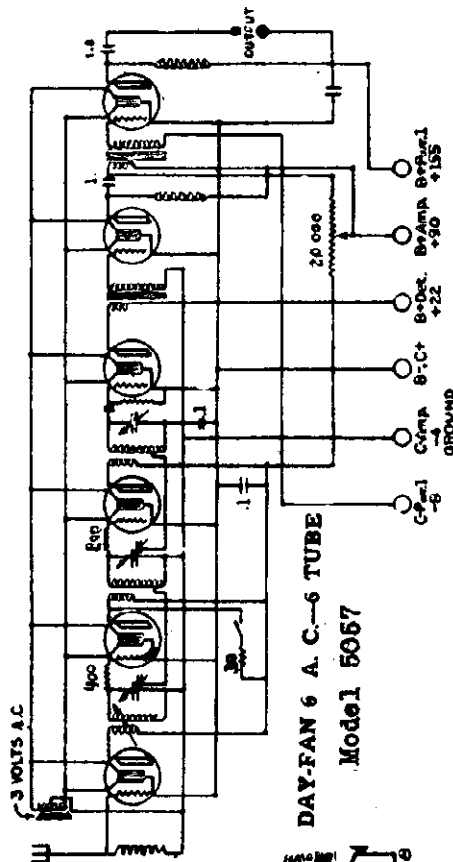


MODEL Day-Fan 5053.  
MODEL Day-Fan 5057  
MODEL Day-Fan 5057SPU

# GENERAL MOTORS RADIO CORP.



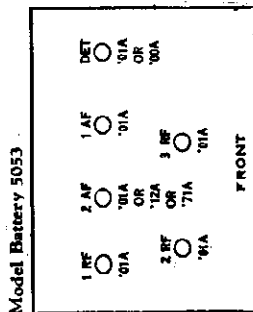
DAY-FAN 6 B-6 TUBE Model 5053



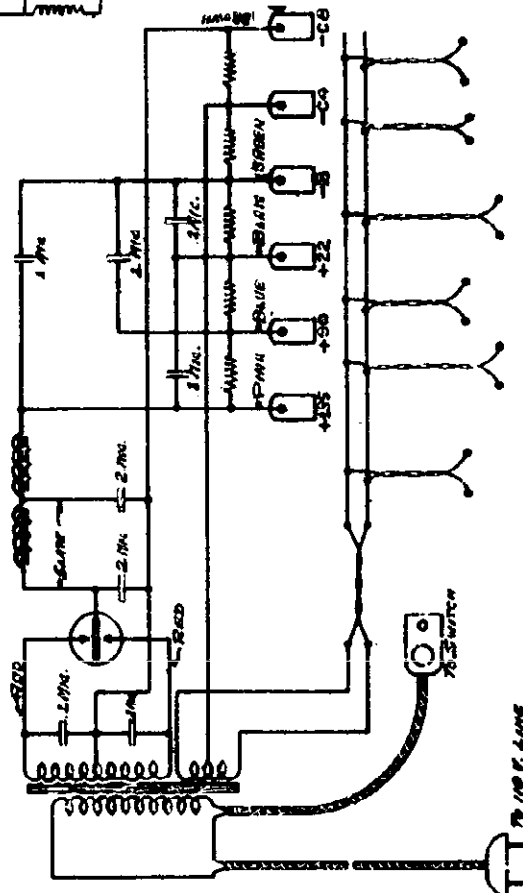
DAY-FAN 6 A. C.-6 TUBE Model 5057

## POWER CABLE COLOR CODE

Color of Wire	N. E. M. A. Rating
Red and White	B + Pwr. 1
Red and Maroon	B + Amp.
Maroon	B + Det.
Green with Red and Yellow	B - C +
Black and Green	C - Amp. and Ground
Black and White	C - Pwr. 1



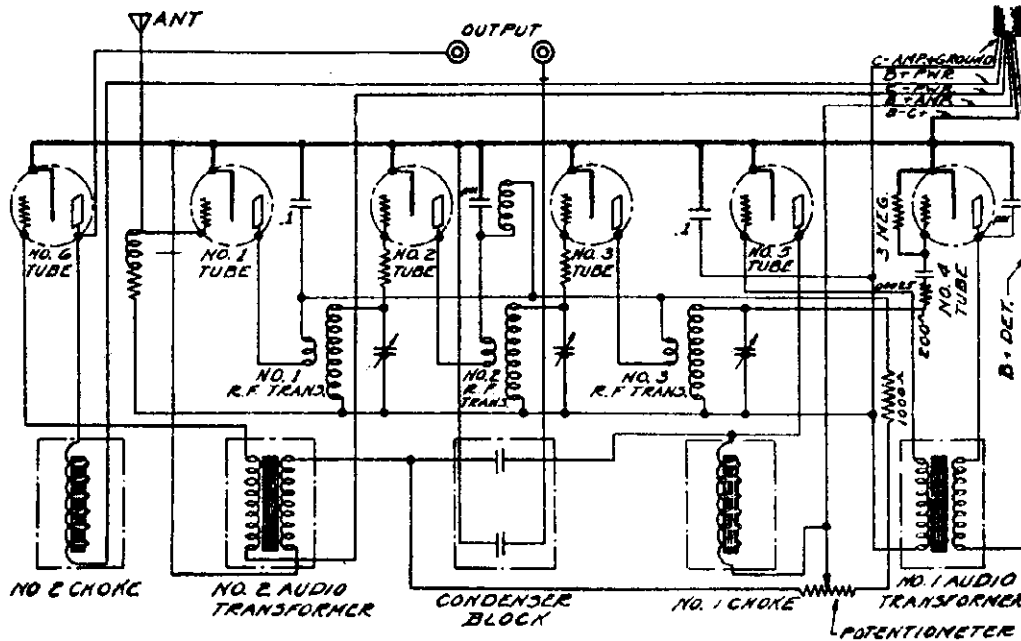
Model Battery 5053



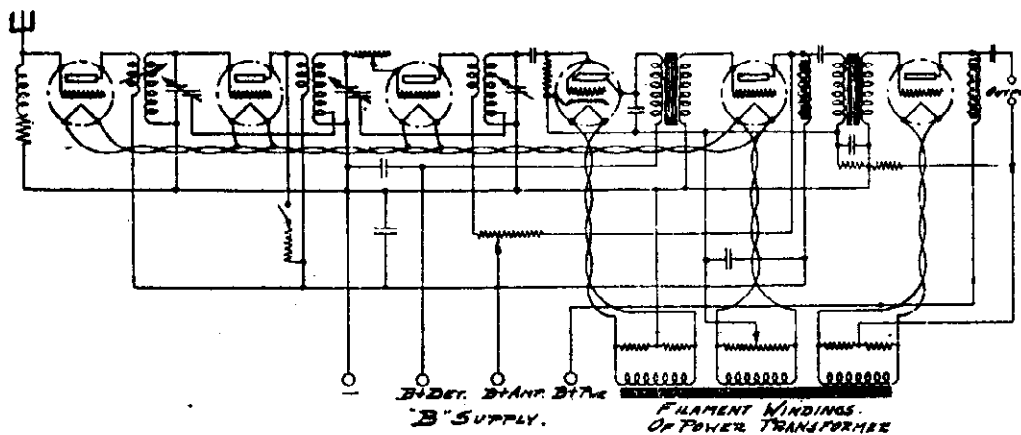
POWER SUPPLY FOR 6 TUBE A. C. SET Model 5057

# GENERAL MOTORS RADIO CORP.

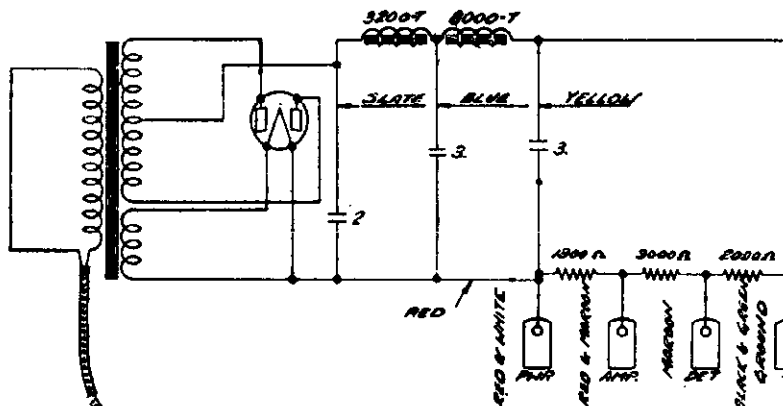
MODEL Day-Fan 5068  
 MODEL Day-Fan 5065  
 MODEL 5524, 5525,  
 SPU For 5065



DAY-FAN 6 JUNIOR A C POWER SET  
 Model 5066



DAY-FAN 6 A. C. (R. C. A. TUBE) POWER SET ~ Model 5065



Radio "B" Power Supply - Model Nos. 5524 and 5525.  
 (For 6 tube (R.C.A.) A.C. Set.)

N. E. M. A. Rating  
 B + Power  
 B + Amp.  
 B + Det.  
 B + C +  
 C - Amp., and G.  
 C - Power

POWER CABLE COLOR CODE:  
 Model 5066

Color of Wire  
 N. E. M. A. Rating  
 B + Power  
 B + Amp.  
 B + Det.  
 B - and Ground

POWER CABLE COLOR CODE:  
 Model 5065

Color of Wire  
 Red and White  
 Red and Maroon  
 Maroon  
 Black with Green tracer

