

Thomas A. Edison, Inc.

Model: C4

Chassis:

Year: Pre June 1932

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

Riders Volume 2 - EDISON 2-1

Riders Volume 2 - EDISON 2-2

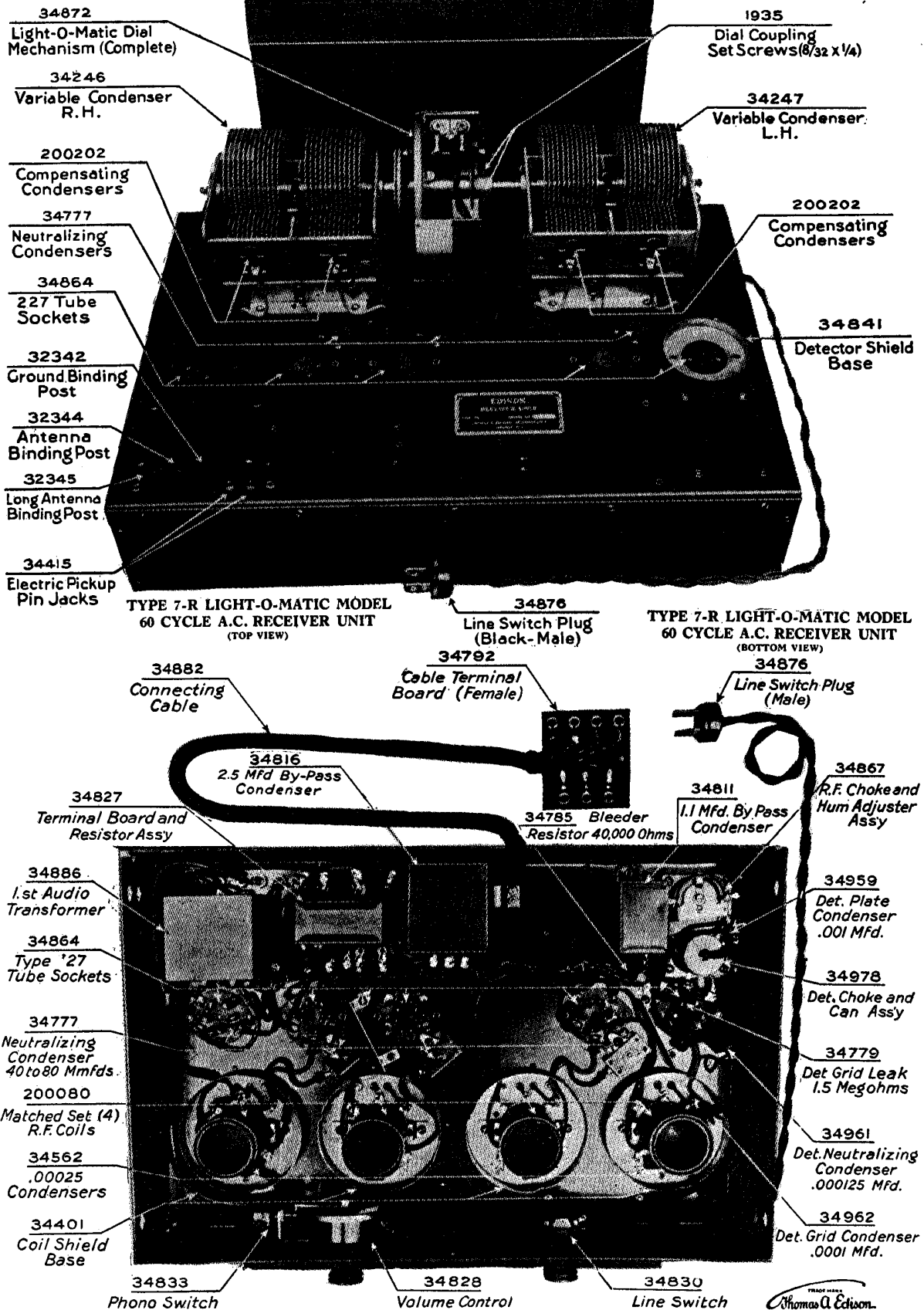
Riders Volume 1 - EDISON 1-6

Riders Volume 1 - EDISON 1-7

Riders Volume 1 - EDISON 1-8

Riders Volume 1 - EDISON 1-9

THOMAS A. EDISON, INC.

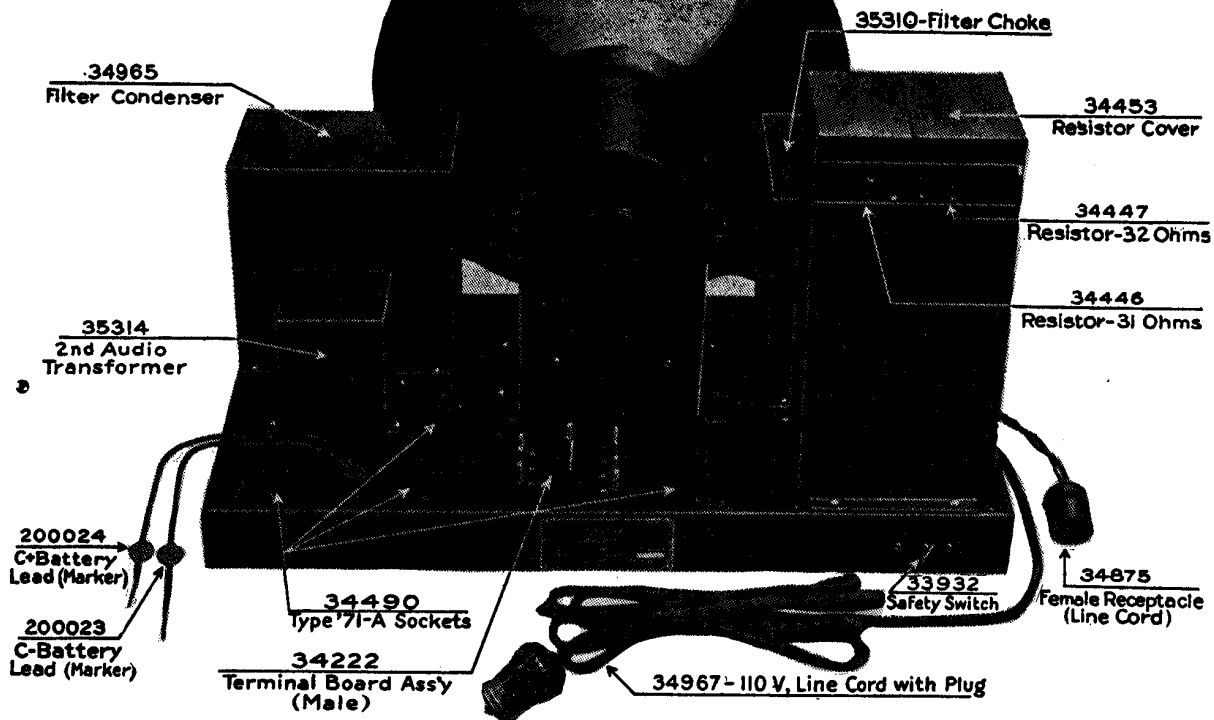
MODELS R4,R5,C4
Chassis Views

MODELS R4,R5,C4
Power Unit Chassis Views

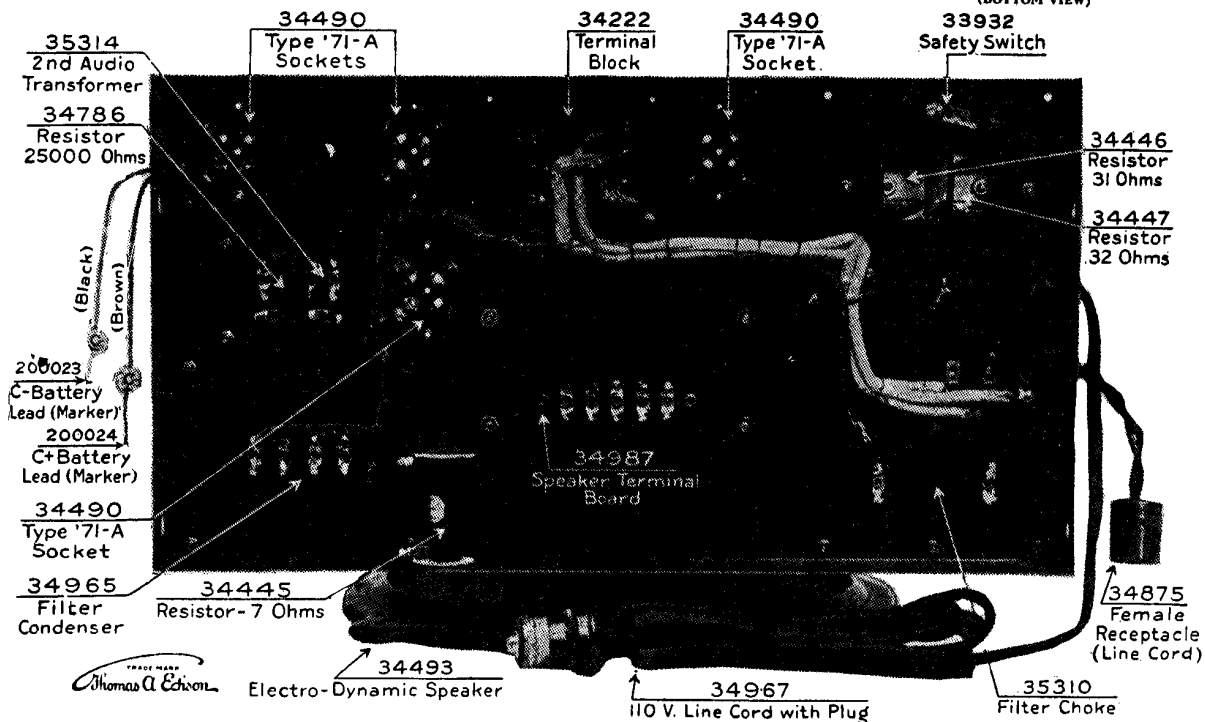
THOMAS A. EDISON, INC.

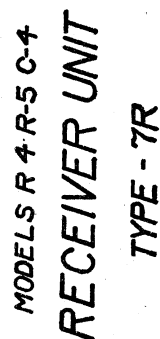
34493 Electro-Dynamic Speaker

TRADE MARK
Thomas A. Edison
TYPE 8-P LIGHT-O-MATIC MODEL
DIRECT CURRENT POWER UNIT
(TOP VIEW)

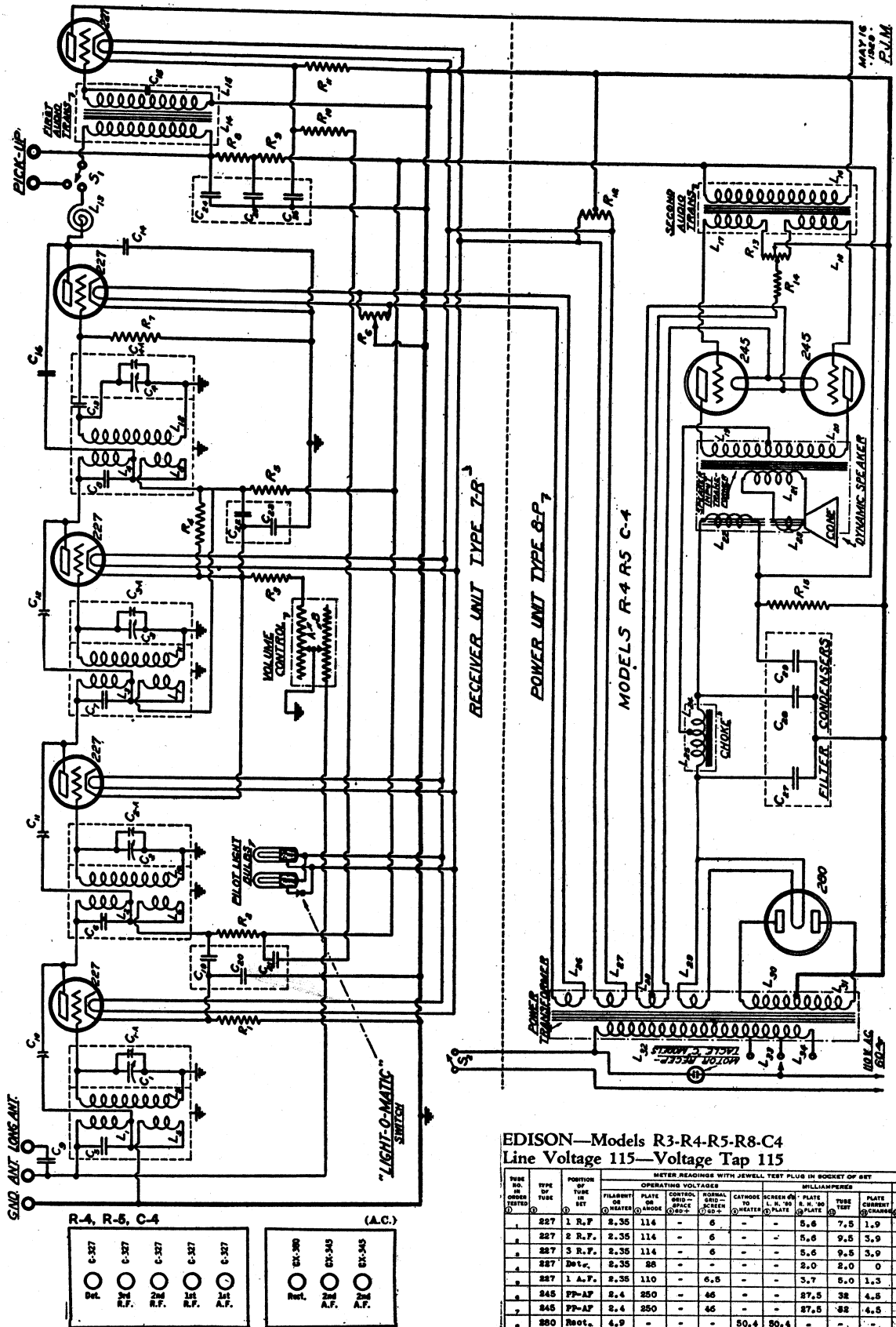


TYPE 8-P LIGHT-O-MATIC MODEL
DIRECT CURRENT POWER UNIT
(BOTTOM VIEW)





THOMAS A. EDISON, INC.

MODELS R4, R5, C4
Schematic

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 7½ 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, 3rd a. f. transformer.	5:1 ratio a. f. transformer with separate secondaries connected in series by variable resistance R-13.
L-19	Half primary, speaker input transformer.	
L-20	Half primary, speaker input transformer.	
L-21	Half primary, speaker input transformer.	
L-22	Field coil, dynamic speaker.	Speaker input transformer, mounted in speaker frame, utilizing center tapped primary.
L-23	Voice coil, dynamic speaker.	4,500 ohm field coil.
L-24	Inside third of filter choke.	20 henry, 375 ohm 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.	
L-28	Rectifier fil. secondary winding.	Power transformer.
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-phonograph 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		
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		
C-13	Detector grid condenser.	.0001 mfd. fixed moulded mica 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.
C-20	Bias by-pass condenser, 1st r. f. stage.	.1 mfd. 300v. paper condenser.
C-21	Hum balance condenser (1st a. f.)	.16 mfd. 300v. paper condenser. (C-19, 20 and 21 in same can.)
C-22	Plate by-pass condenser, 2nd and 3rd r. f.	.1 mfd. 300v. paper condenser.
C-23	Bias by-pass condenser, 2nd and 3rd r. f.	1. mfd. 150v. paper condenser. (C-22 and 23 in same can.)
C-24	A. f. by-pass condenser, detector plate.	1. mfd. 300v. paper condenser.
C-25	Filter condenser, detector plate supply.	.5 mfd. 300v. paper condenser.
C-26	Bias by-pass condenser, 1st a. f. stage.	1. mfd. 150v. paper condenser. (C-24, 25 and 26 in same can.)
C-27	1st filter condenser.	2. mfd. 600v. paper condenser.
C-28	2nd filter condenser.	2. mfd. 600v. paper condenser.
C-29	3rd filter condenser.	1. mfd. 300v. paper condenser. (C-27, 28 and 29 in same can.)
C-1A	Tuning compensator, 1st r. f.	{ Each an adjustable air and mica dielectric condenser mounted on side of variable condenser section which it shunts.
C-2A	Tuning compensator, 2nd r. f.	
C-3A	Tuning compensator, 3rd r. f.	
C-4A	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	Bleeder 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.

