

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.	5:1 ratio a. f. transformer with separate secondaries connected in series by variable resistance R-13.
L-19	Half primary, speaker input transformer.	Speaker input transformer, mounted in speaker frame, utilizing center tapped primary.
L-20	Half primary, speaker input transformer.	
L-21	Secondary, speaker input transformer.	
L-22	Field coil, dynamic speaker.	
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	2nd a. f. 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		{ .000125 mfd. fixed moulded mica condenser.
C-7		
C-8		
C-9	Long antenna series condenser.	{ Each an adjustable condenser, 40 to 80 mmfd.
C-10	Neutralizing condensers, 1st, 2nd and 3rd r. f. stages, respectively.	
C-11		
C-12		{ .0001 mfd. fixed moulded mica condenser.
C-13	Detector grid condenser.	
C-14	Detector plate 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.	{ .1 mfd. 300v. paper condenser. 1. mfd. 150v. paper condenser. (C-22 and 23 in same can.)
C-23	Bias by-pass condenser, 2nd and 3rd r. f.	
C-24	A. f. by-pass condenser, detector plate.	
C-25	Filter condenser, detector plate supply	{ 1. mfd. 300v. paper condenser. .5 mfd. 300v. paper condenser. 1. mfd. 150v. paper condenser. (C-24, 25 and 26 in same can.)
C-26	Bias by-pass condenser, 1st a. f. stage.	
C-27	1st filter condenser.	
C-28	2nd 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-29	3rd filter condenser.	
C-30		
C-31	Tuning compensator, 1st r. f.	{ Each an adjustable air and mica dielectric condenser mounted on side of variable condenser section which it shunts.
C-32	Tuning compensator, 2nd r. f.	
C-33	Tuning compensator, 3rd r. f.	
C-34	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.