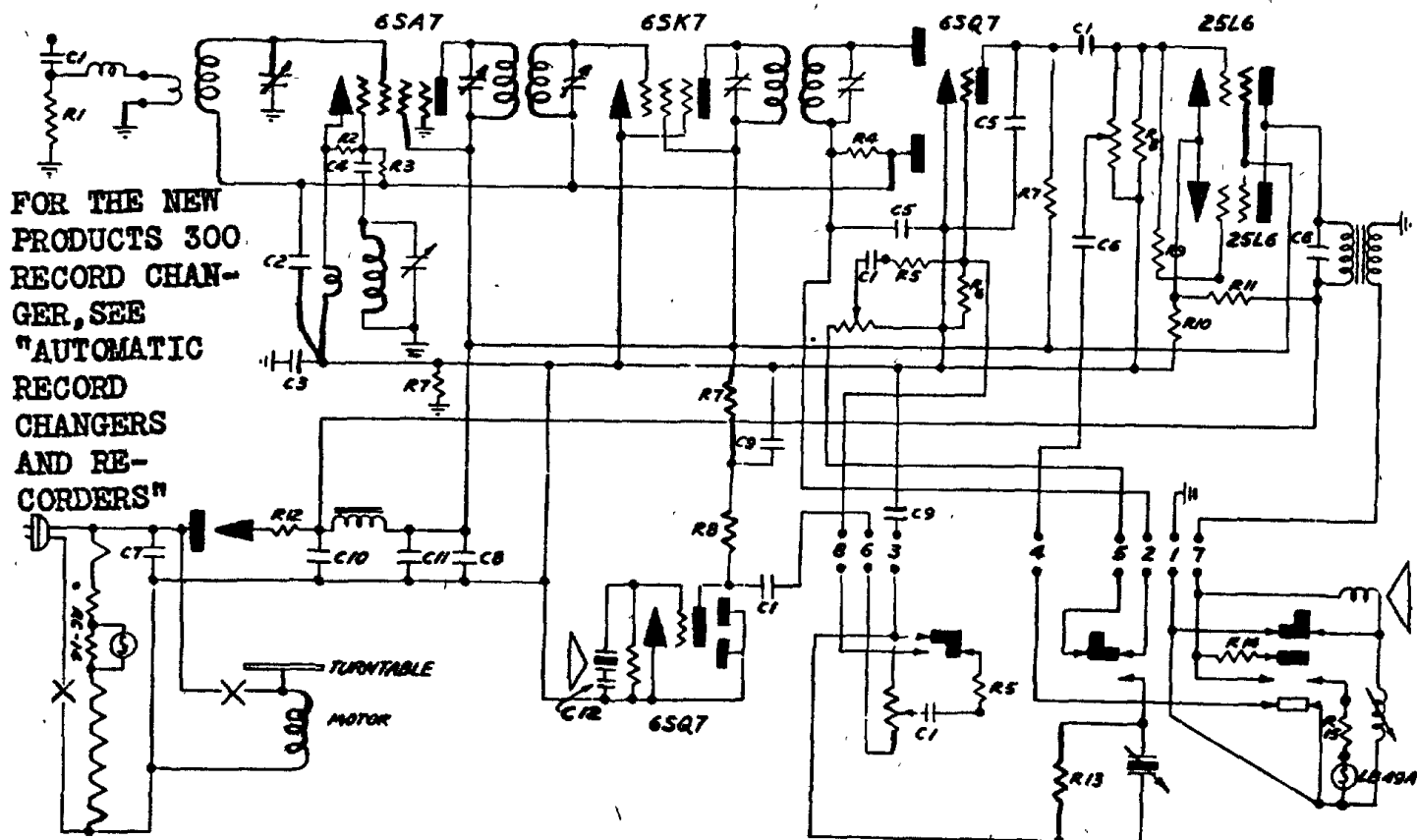


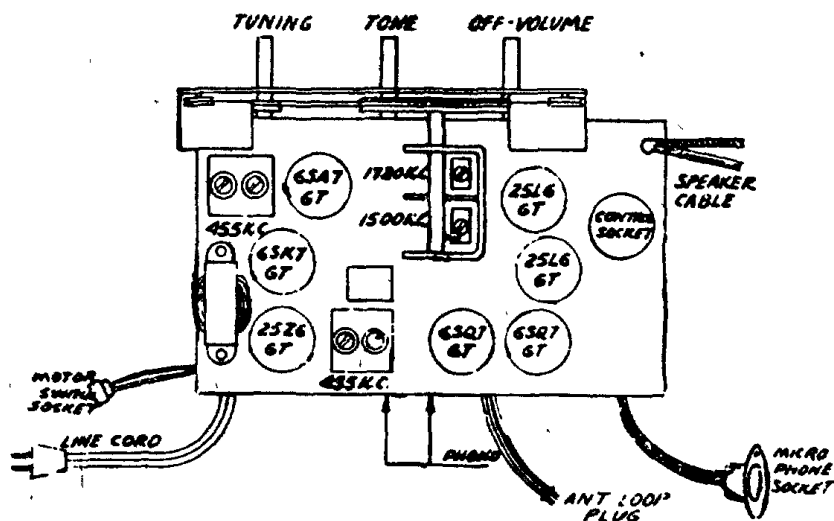
SCHEMATIC DIAGRAM MODEL TR321-A TR331-A



REPLACEMENT PARTS LIST

Schematic Location	Part No.	Description
R1	R-15570	2K ohm 1/4 Watt Resistor 20%
R2	R-15510	20K ohm 1/4 Watt Resistor 20%
R3	R-79	15 Megohm 1/4 Watt Resistor 20%
R4	R-15500	2 Megohm 1/4 Watt Resistor 20%
R5	R-15504	150K ohm 1/4 Watt Resistor 20%
R6	R-149	4.7 Megohm 1/4 Watt Resistor 20%
R7	R-153	270K ohm 1/4 Watt Resistor 20%
R8	R-154	470K ohm 1/4 Watt Resistor 20%
R9	R-15601	100 ohm 1/4 Watt Resistor 20%
R10	R-155	68 ohm 1/4 Watt Resistor 20%
R11	R-147	4K ohm 3/4 Watt Resistor 20%
R12	R-85	35 ohm 1/4 Watt Resistor 20%
R13	R-100	300K ohm 1/4 Watt Resistor 20%
R14	R-152	4 ohm 1/4 Watt Resistor 20%
R15	R-151	7.5 ohm 1/4 Watt Resistor 20%
RC-14	RC-14	Candohm
C1	C-15754	.01 mfd. 400 Volt Condenser
C2	C-15752	.05 mfd. 200 Volt Condenser
C3	C-15770	.2 mfd. 200 Volt Condenser
C4	CM-29	50 mmfd. Mica Condenser
C5	CM-30	250 mmfd. Mica Condenser
C6	C-25	.006 mfd. 400 Volt Condenser
C7	C-15756	.05 mfd. 400 Volt Condenser
C8	C-15751	.25 mfd. 200 Volt Condenser
C9, C12	C-15761	.10 mfd. 200 Volt Condenser
C10	CE-66-2	100 mfd. Electrolytic
C11	CE-66-2	40 mfd. Electrolytic

TUBE LAYOUT MODEL TR321-A  
TR331-A



This receiver is equipped with a built-in loop antenna and, under normal conditions, should not require an external antenna. Since reception of loops is directional, reception can be improved by orienting the set for best reception of preferred stations. In very difficult locations, an external antenna should be used. This should be connected to the clip on the back of the receiver. No ground should be used on this set.

Model TR321-A operates on 105-125 volts 60 cycles AC only.

Model TR331-A operates on 105-125 volts 50 cycles AC only.

This is a seven tube combination superheterodyne radio receiver, home recorder, phonograph, and public address amplifier.

The tuning range is from 540 to 1720 kilocycles. This includes the standard broadcast band and police calls in 1600 to 1720 kilocycles range.