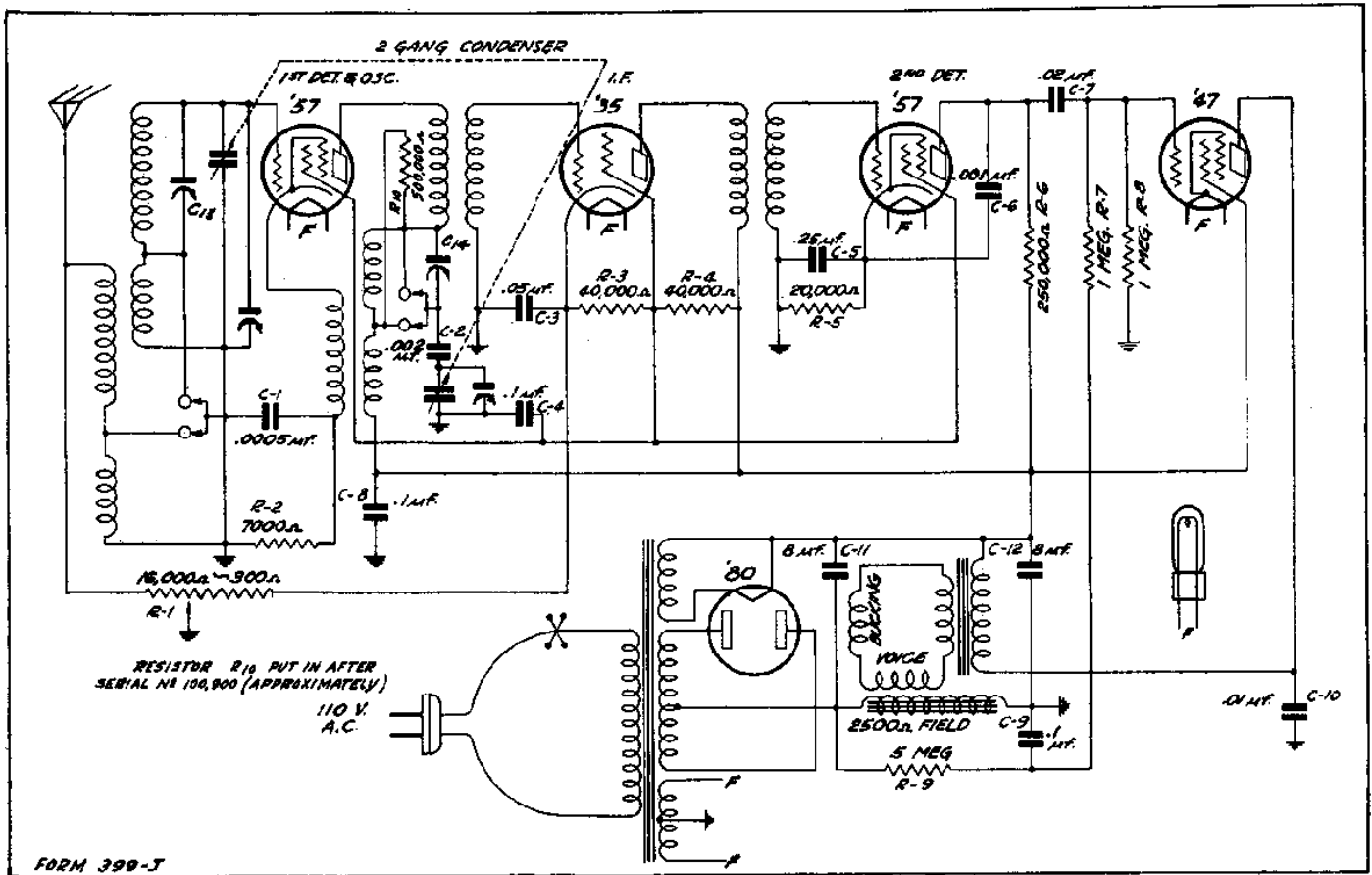
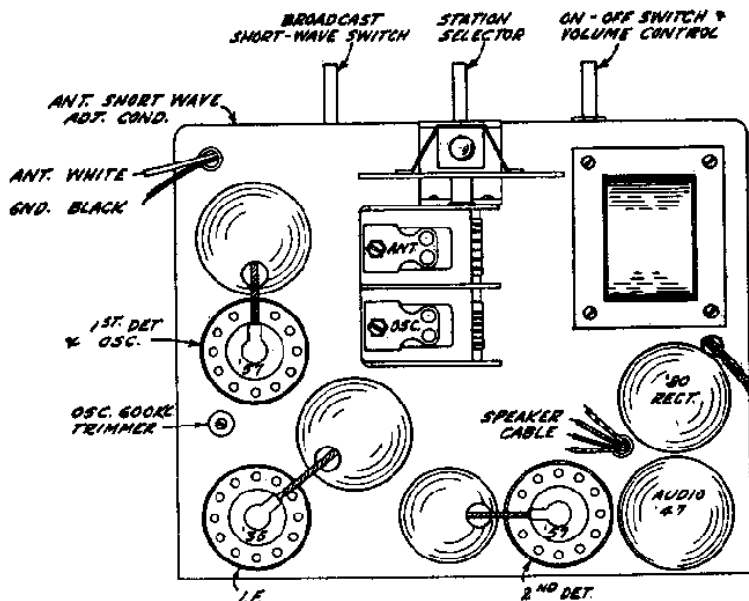


# ARCO CFR

## No. 052 Series



Schematic Circuit Diagram



Top View of Chassis

### Twenty-Five Cycle Receivers

The twenty-five cycle receiver differs from the sixty-cycle receiver only in the fact that a different power transformer is used. The correct power transformer is shown in the parts list.

The twenty-five cycle chassis can be operated satisfactorily from a sixty-cycle power supply. However, the reverse is not true, the sixty-cycle receiver cannot be operated from a twenty-five cycle power supply.

### Voltages at Sockets

LINE VOLTAGE 115—VOLUME CONTROL AT MAXIMUM—ANT. SHORTED TO GND.

Type of Tube	Function	Across Filament or Heater	Plate to Cathode	Screen to Cathode	Grid to Cathode	Normal Plate MA
'57	1st Det.	2.15	225	90	4	.5
'35	I.F.	2.15	230	90	3.2 <sup>(1)</sup>	6.2
'57	2nd Det.	2.15	170	90	4.3	.2
'47	Audio	2.15	225	240	14 <sup>(2)</sup>	23.
'80	Rect.	4.75	620 volts plate to plate			20. per plate

(1) If read with cord and plug, ground the control grid.  
 (2) Computed figure—cannot be accurately read with ordinary voltmeter. Voltage consists of drop across 1 megohm resistor, R-8.

### Oscillation and Whistle

Should the set oscillate on being connected up, it may be due to tubes whose characteristics vary considerably from the standard. In case of oscillation, therefore, change the two 57's around and try out some new tubes.

See if the receiver is properly grounded and if it is, try out a new ground. Investigate the line voltage to see if it is excessively high.

The tube shields must all be on and the control grid leads to the top grid connection tubes firmly in place. Otherwise oscillation may result.