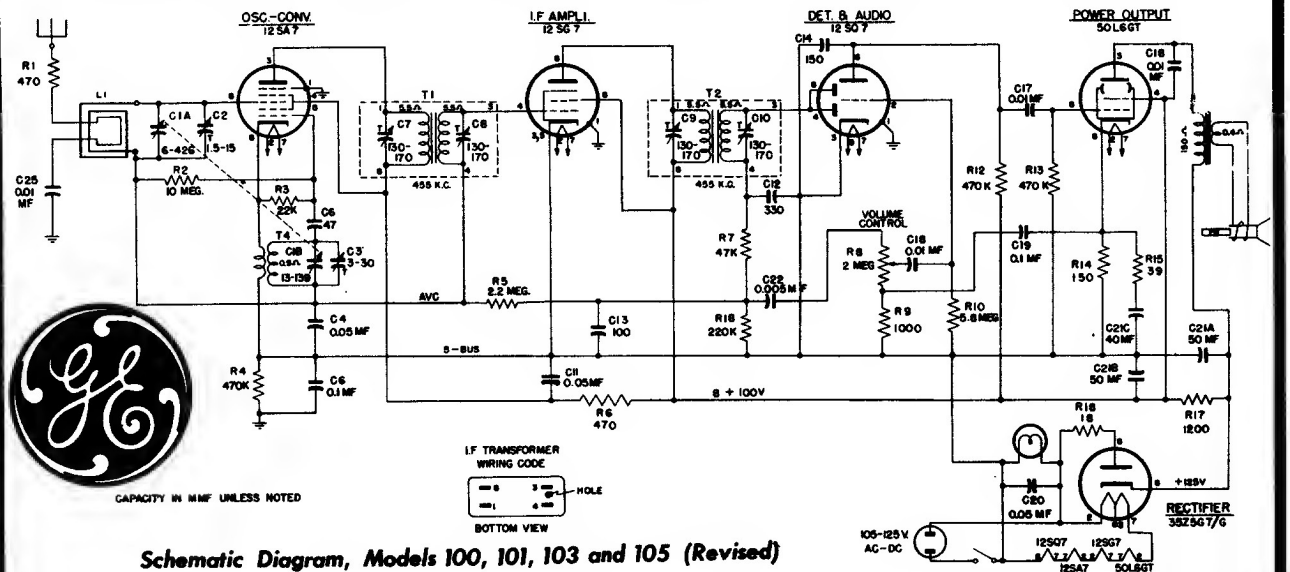


Schematic Diagram, Models 100, 101, 103 and 105 (Revised)

Stage gain measurements by vacuum tube voltmeter or similar measuring devices may be used to check circuit performance and isolate trouble. The gain values listed may have tolerances of 20%. Readings taken with low signal input so that AVC is not effective.

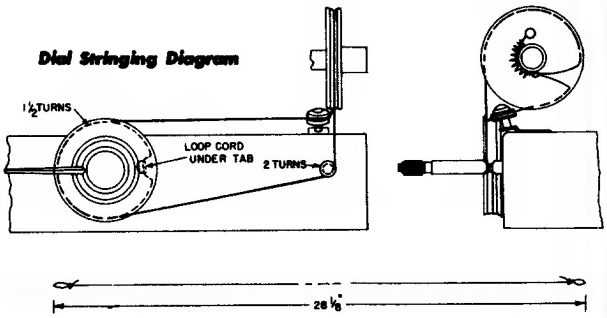
(1) R-F Stage Gains.

Antenna post to 12SA7 grid	4 @ 1000 kc
12SA7 grid to 12SG7 grid	30 @ 455 kc
12SG7 grid to 12SQ7 diode plate	150 @ 455 kc

(2) Audio Gain.

0.06 volt at 400 cycles across volume control (R8) with control set at maximum will give approximately ½-watt output across speaker voice coil.

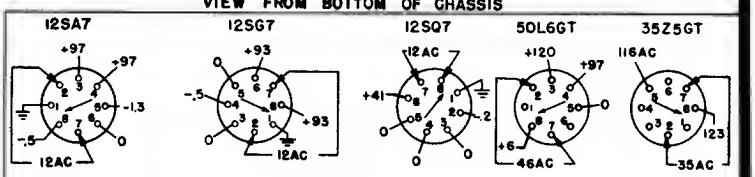
Dial Stringing Diagram



ALIGNMENT CHART

Connect test oscillator to	Test osc. setting	Pointer setting on radio	Adjustment for maximum output
12SG7 grid in series with 0.05 mf. cap.	455 kc	1,500 kc	2nd I-F Trans. Trimmers
12SA7 grid in series with 0.05 mf. cap.	455 kc	1,500 kc	1st and 2nd I-F Trans. Trimmers
Ant. Post in series with 50 mmf.	1,500 kc	1,500 kc	C3 (Osc.)
Ant. Post in series with 50 mmf.	1,500 kc	1,500 kc	C2 (R-F)

VIEW FROM BOTTOM OF CHASSIS



CONDITION OF TEST

MEASUREMENTS TAKEN ON 20,000 OHMS PER VOLT METER
MEASURED FROM PIN TO S-SUS UNLESS SHOWN OTHERWISE
117 VOLTS LINE
VOLUME CONTROL – CLOCKWISE
NO SIGNAL INPUT

MODELS 100, 101, 103 AND 105

Production changes were made to all Models 100, 101, 103 and 105 radios having serial Nos. 5000 and over.

(SCHEMATIC DIAGRAM)—A corrected schematic is printed. Changes were made as follows:

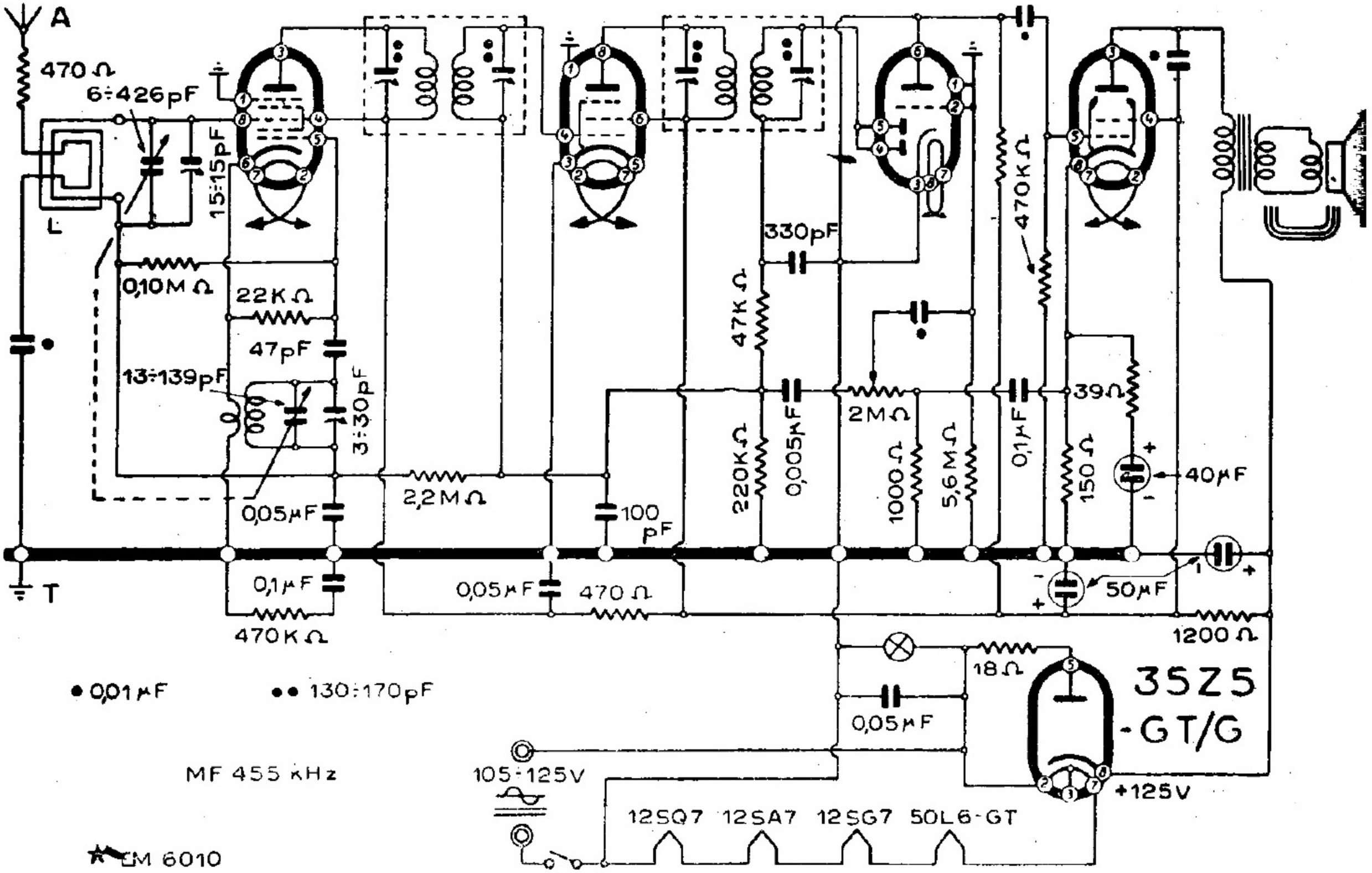
(1) C18 connects between the output plate and screen instead of between plate and ground.

(2) The plate and screen filter (C11, R6) is moved from the IF amplifier circuit to the converter plate and screen circuit.

(3) The filament connections (Pins 2 and 7) to the 12SA7 converter tube are interchanged.

GENERAL ELECTRIC

12SA7 12SG7 12SQ7 50L6-GT



GENERAL ELECTRIC - MODD. « 100 » « 101 » « 103 » « 105 »