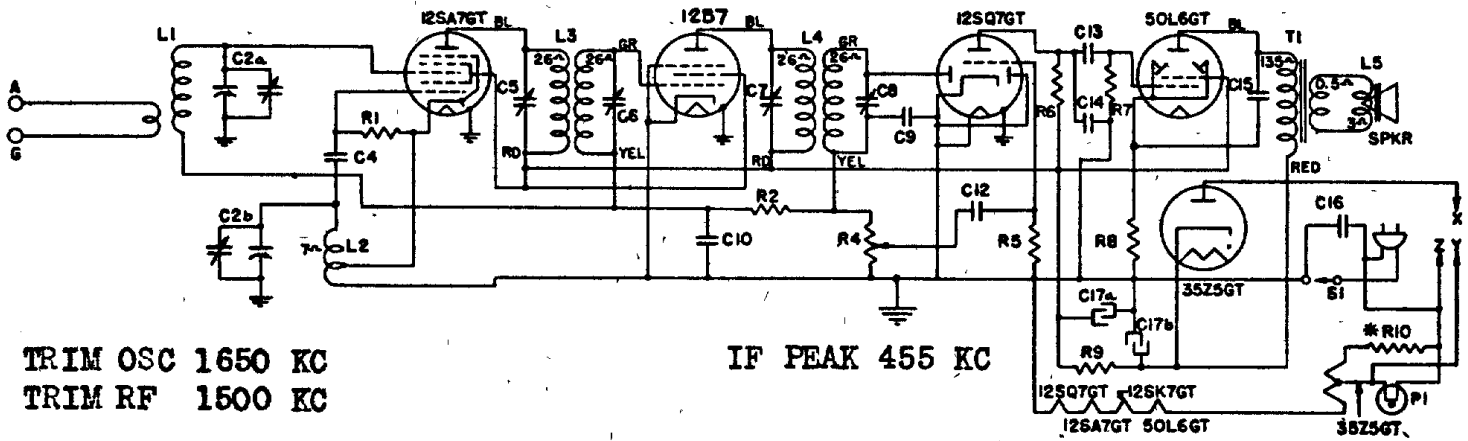


GENERAL ELECTRIC CO.

MODEL J-512



"A" rated receivers have "X" connected to "Y" and R-10 is shorted out
"C" rated receivers have "X" connected to "Z"

-1940-

Parts Description List

Sym.	Description	Sym.	Description	Sym.	Description
C-2a	Antenna Section Tuning Condenser	C-13	.005 mfd. paper capacitor	P-1	Dial lamp, MAZDA No. 47
C-2b	Oscillator Section Tuning Condenser	C-14	330 mmf. mica capacitor	R-1	33,000 ohms carbon resistor
C-4	47 mmf. mica capacitor	C-15	.01 mfd. paper capacitor	R-2	2.2 megohms carbon resistor
C-5	60-140 mmf. I.F. trimmer	C-16	.05 mfd. paper capacitor	R-4	0.5 megohm volume control
C-6	60-140 mmf. I.F. trimmer	C-17a	30 mfd. 150 V. dry electrolytic	R-5	4.7 megohms carbon resistor
C-7	60-140 mmf. I.F. trimmer	C-17b	40 mfd. 150 V. dry electrolytic	R-6	470,000 ohms carbon resistor
C-8	60-140 mmf. I.F. trimmer	L-1	Beam-a-Scope	R-7	470,000 ohms carbon resistor
C-9	470 mmf. mica capacitor	L-2	Oscillator coil	R-8	150 ohms carbon resistor
C-10	.05 mfd. paper capacitor	L-3	1st I.F. transformer	R-9	1200 ohms 1 W. carbon resistor
C-12	.005 mfd. paper capacitor	L-4	2nd I.F. transformer	R-10	13 ohms carbon resistor $\pm 5\%$

Electrical Specifications

Rating	Power Supply (Volts)	Frequency (Cycles on AC)	Power Consumption (Watts)
A	115—AC or DC	40-60	30
C	115—AC or DC	25	30

Special Service Information

The following information will be found very useful in servicing receivers if a vacuum tube voltmeter or similar voltage measuring instrument is available.

- Stage Gains
 - Antenna to 12SA7GT grid... 3 to 3.5 at 1000 KC†
 - 12SA7GT grid to 12B7 grid... .50 at 455 KC ‡
 - 12B7 grid to 12SQ7GT detector plate... .50 at 455 KC ‡
 - Gains shown in the first two stages do not contain the conversion gain which amounts to 1.1 at 1000 KC.
 - 0.15 volt, 400 cycle signal across the volume control will give ½ watt speaker output. (Volume control turned to maximum.)
 - Average DC voltage developed across oscillator grid leak... 15 volts
- † Variations of +10%, -20% permissible.

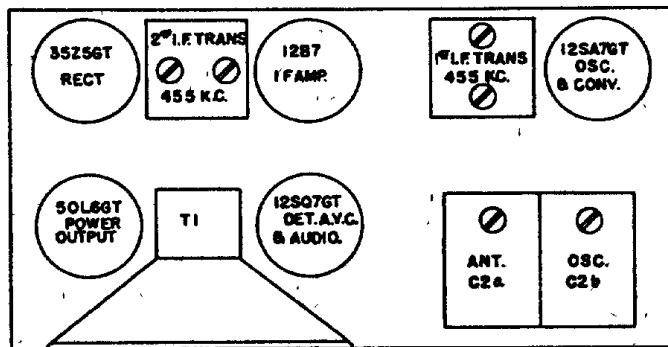


Fig. 1. Trimmer Location

ALIGNMENT CONVENTIONAL

SEE SPECIAL SECTION VOL. VIII

Intermediate Frequency..... 455 KC

Electrical Power Output (117-line volts)

Undistorted..... 1.3 watts
Maximum..... 1.9 watts

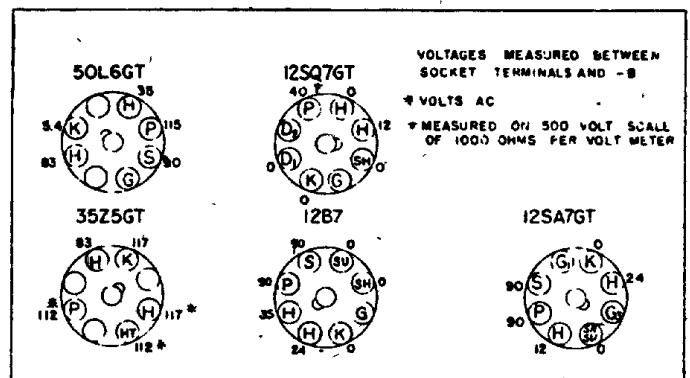
Loud-speaker—"Alnico" Magnetic Dynamic

Outside Cone Diameter..... 4 inches
Voice Coil Impedance (400 cycles)..... 3.5 ohms

Tubes

Converter-Oscillator..... GE-12SA7GT
I.F. Amplifier..... GE-12B7
Det., Aud., AVC..... GE-12SQ7GT
Power Output..... GE-50L6GT
Rectifier..... GE-35Z5GT

FRONT OF CHASSIS



BOTTOM VIEW OF CHASSIS

AC LINE VOLTS-117 MAX VOLUME GANG CLOSED NO SIGNAL

Socket Voltages