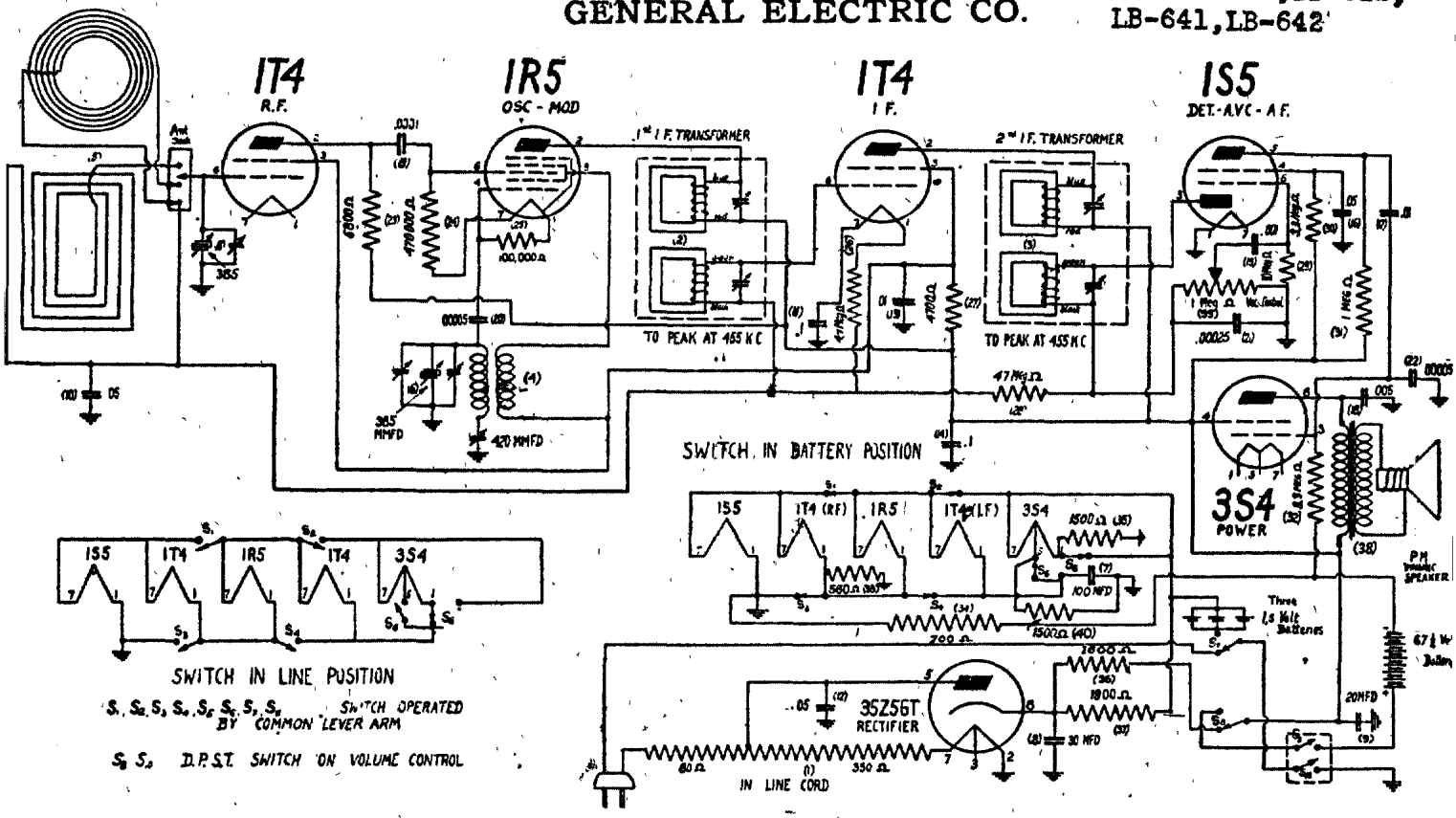
GENERAL ELECTRIC CO.

MODELS LB-603, LB-612, LB-641, LB-642



SERVICE NOTES

Battery Specifications.....Three Eveready No. 950, Burgess No. 2 or equivalent. One Eveready No. 467 Burgess No. XX45 or equivalent.

Intermediate Frequency .....455 K.C.
Tuning Frequency range .....540-1700 K.C.
Maximum Power Output .....150 Milliwatts
Loud Speaker .....Cone Diameter-4 inches
Voice Coil Impedance .....(400 cycles) 3½ ohms
Tubes: R. F. 1T4, Converter-Oscillator 1R5, I. F. 1T4, Detector, A. V. C. 1S5, Power Output 3S4, Rectifier 35Z5GT

ALIGNMENT PROCEDURE

Alignment Frequencies R. F. ..... 600-1500-1700 K. C.
I. F. ..... 455 K. C.

I. F. Alignment

Connect an output meter across the voice coil. Rotate the volume control to maximum. Set test oscillator to 455 kilocycles and apply signal to control grid of 1T4 R. F. tube through a .05 mfd. capacitor. Align the second I. F. transformer trimmers, next adjust the first I. F. trimmers. Keep the test output to a level that will give a good meter reading.

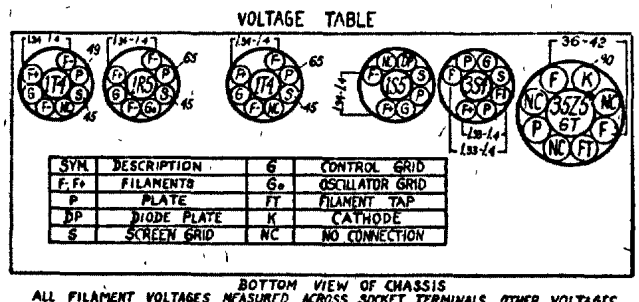
R. F. Alignment

Place a one turn loop not closer than six inches from the receiver Beam-a-Scope which is located in the front cover. Apply a 1700 kilocycles signal to the coupling loop. Adjust the receiver to 1700 kilocycles by turning the variable condenser until it is in the extreme clockwise position. Align the oscillator trimmer (C-1A). Set the signal generator to 1500 kilocycles. Turn the receiver tuning condenser until the generator signal is picked up. Peak (C-1B) for maximum output. Change the test signal to 600 kilocycles and turn the condenser until signal is heard. Peak (C-2) while rocking the gang variable.

The Beam-a-Scope leads should be dressed the same after the components are mounted in the cabinet as during alignment.

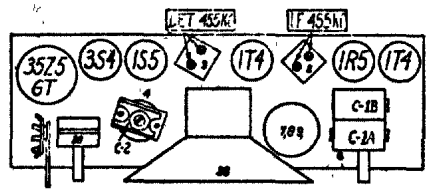
2. The batteries are easily installed or replaced. When the back of the cabinet is opened, the battery compartment is accessible. Place the dry cell batteries on the right side with brass terminal toward the outside. Snap the red lead terminal to the positive (+) terminal of the "B" battery. The blue lead should be snapped to the negative (-) terminal. Place the "B" battery on the left side of the compartment with the terminals toward the center. The sketch inside the cabinet will be found an aid in connecting the batteries properly.

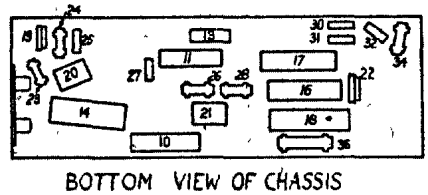
VOLTAGE TABLE



SYM.	DESCRIPTION	G	CONTROL GRID
F, F1	FILAMENTS	G1	OSCILLATOR GRID
P	PLATE	FT	FILAMENT TAP
DP	DIODE PLATE	K	CATHODE
S	SCREEN GRID	NC	NO CONNECTION

BOTTOM VIEW OF CHASSIS
ALL FILAMENT VOLTAGES MEASURED ACROSS SOCKET TERMINALS, OTHER VOLTAGES MEASURED FROM SOCKET TERMINAL TO GROUND WITH A 1000 Ω PER VOLT VOLTMETER





BOTTOM VIEW OF CHASSIS
PARTS 12 15 29 33 35 40 LOCATED ON TOP OF CHASSIS