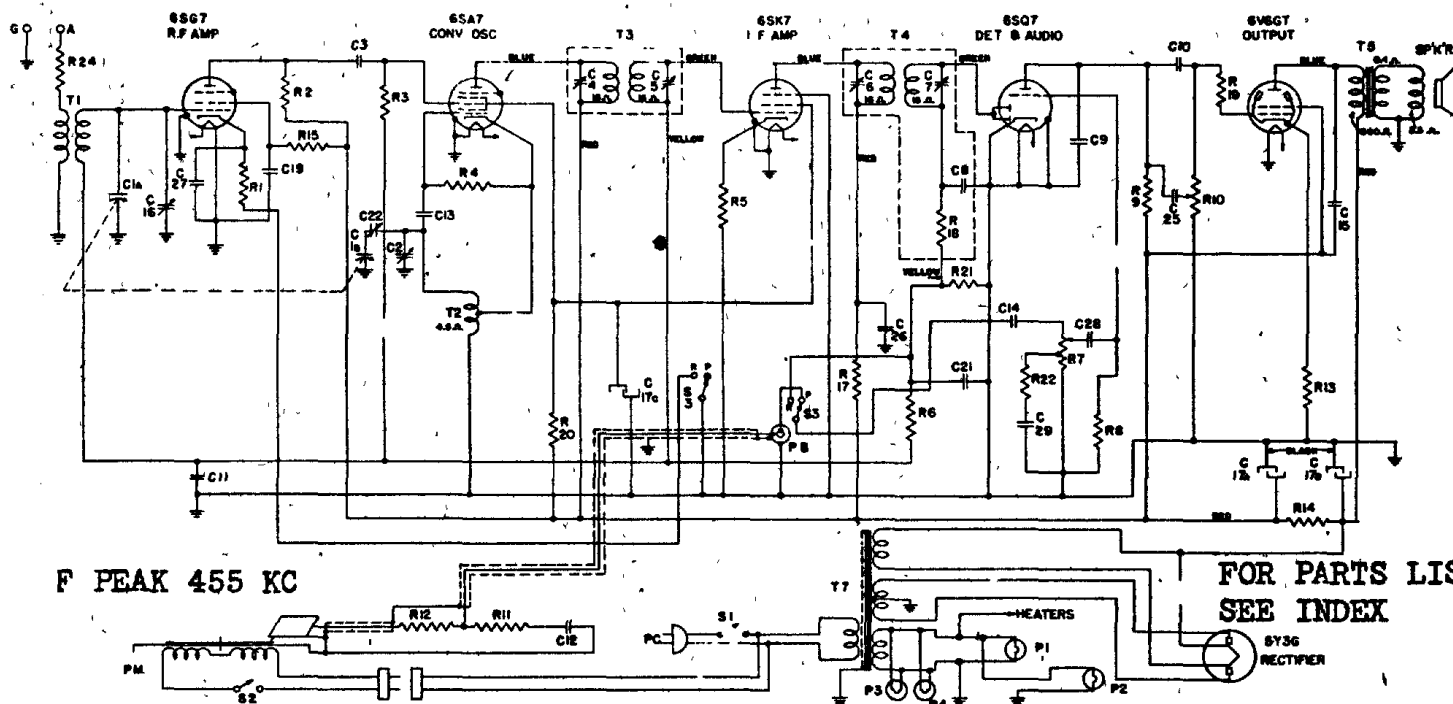


# GENERAL ELECTRIC CO.

MODEL LC-648



## Electrical Rating

Rating "A6"—110-125 volts, 60 cycles, 80 watts.  
Rating "A5"—110-125 volts, 50 cycles, 80 watts.

## Electrical Power Output

Undistorted ..... 2.5 watts  
Maximum ..... 4.5 watts

## ALIGNMENT PROCEDURE

The location of trimmers is shown in Fig. 1. All oscillator and RF trimmers are accessible through a slot through the back cover of the cabinet.

The alignment procedure is given in table form. All IF alignments may be made with the chassis removed from the cabinet. However, the RF alignments are made with the chassis and loop antennas securely fastened in the cabinet, as the relative position of the loop antenna with respect to the chassis materially affects it. The RF signal should be capacity-coupled by placing a two-foot wire for an antenna on the test-oscillator output post (high side). Keeping this antenna two feet or more from the receiver loop will generally insure freedom from too much coupling. Metal objects such as meters, tools, etc., should not be placed near the receiver loop.

## ALIGNMENT CHART

Step	Connect Test-Osc. to	Test-Osc. Setting	Pointer Setting	Adjust Trimmers for Maximum Output
1	6SK7 IF Grid in series with .05 mfd.	455 KC	"BC" Band 550 KC	C6 & C7
2	6SA7 Conv. grid in series with .05 mfd.	455 KC	"BC" Band 550 KC	C4 & C5
3	Repeat step 1.			
4	Capacity Coupled	580 KC	"BC" Band 580 KC	C22*
5	Capacity Coupled	1500 KC	"BC" Band 1500 KC	C2 (Osc.)
6	Capacity Coupled	1500 KC	"B" Band 1500 KC	C16 (RF)
7	Repeat step 4.			

\* Rock gang condenser when making alignment.

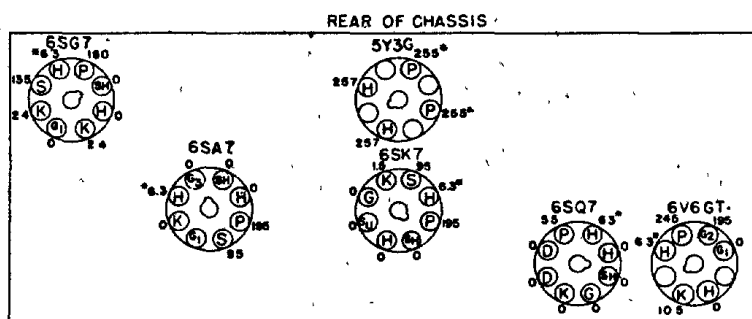
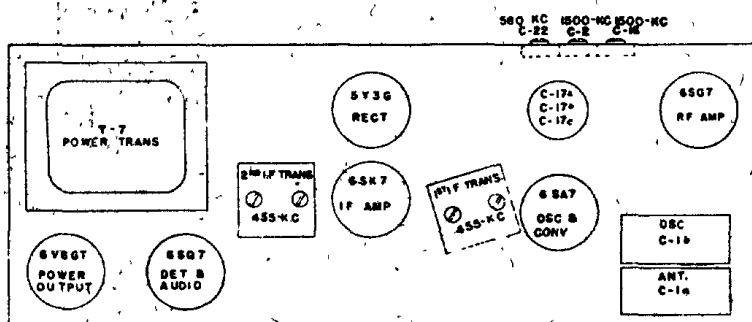
## Special Service Information

The following data are taken with a vacuum tube voltmeter or similar voltage measuring device.

- Stage Gains
  - Antenna Post to RF Grid 5 at 1000 KC
  - RF Grid to Converter Grid 5 at 1000 KC
  - Converter Grid to IF Grid 40 at 1000 KC
  - Converter Grid to IF Grid 60 at 455 KC
  - IF Grid to 6SQ7 diode plates 90 at 455 KC
- Audio Gains
  - .14 volts, 400 cycles signal across volume control with control set to maximum will give approximately 1/2-watt speaker output.
- DC voltage developed across oscillator grid resistor R4 averages 10 volts at 1000 KC.

Variations of  $\pm 20\%$  permissible. All readings taken with AVC shorted out.

FOR RCA RP-162 or G.E. LRP-170  
RECORD CHANGERS, SEE RIDER'S  
"AUTOMATIC RECORD CHANGERS AND  
RECORDERS".



BOTTOM VIEW OF CHASSIS

117 V.A.C. LINE NO SIGNAL INPUT  
SOCKET VOLTAGES TO GROUND  
BAND SWITCH SET FOR BROADCAST BAND  
\* INDICATES VOLTS A.C.