

*MODEL - R - 416*

*I.F. 456 Kc.*

*1938-39*

#### ALIGNING PROCEDURE:

The bottom cover must be on the chassis

##### 1. Intermediate Frequency Alignment.

Turn the gang condenser full out of mesh to the high frequency end and see that the volume and tone controls are full on in which position they should be left for the remainder of the alignment procedure.

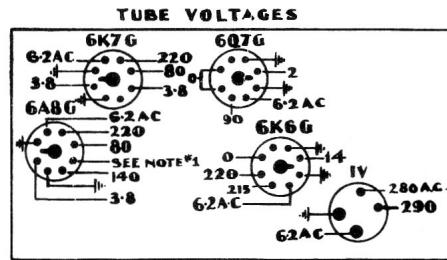
Connect an output meter to the voice coil terminals of the speaker; an A.C. voltmeter with a full scale range of one volt is very satisfactory for this purpose.

Apply a 456 KC signal from a test oscillator to the grid cap of the 6A8G tube and adjust the trimmers on the I.F. transformers L5 and L4 in that order for maximum deflection of the output meter. Use as weak a signal as possible which will give a readable deflection with the volume control on full. If the transformers were much out of alignment repeat this last operation.

##### 2. Wave Trap Adjustment.

Remove the test oscillator lead from the 6A8G grid cap and connect it to the blue antenna wire of the chassis through a standard dummy antenna or alternatively a 200 MMFD Mica condenser. The ground lead of the oscillator should be connected to the chassis as before.

With a strong 456 KC signal input adjust the slotted screw of the wave trap coil at the end of the rear of the chassis with a small screwdriver for minimum output. A very strong input signal is necessary for the final adjustment. On some sets there may be a lock nut on this screw instead of a tension spring, in which case the nut should be tightened again after the adjustment is made.



FRONT OF SET  
BOTTOM

NOTE-1: THE OSCILLATOR BIAS DEVELOPED  
ON THIS TERMINAL IS NOT READILY  
MEASUREABLE.

NOTE-2: ALL VOLTAGES GIVEN ARE FOR 115  
VOLTS ON LINE.

