



# ALIGNING I.F. TRANSFORMERS: (465 K.C.):

Part No. 108-95B Output I.F. Transformer  
Part No. 108-96 Input I. F. Transformer

These I.F. transformers have two adjustments, both of which are accessible from the top of chassis (see Fig. 1).

1. With volume control full on (the extreme right of its rotation), and with the variable condenser set to approximately 1400 kilocycles, make the following adjustments:  
(a) Connect external oscillator set at 465 kilocycles, in series with .1 mfd. condenser, to the control grid cap of the type 6K7 tube, and adjust the output I.F. transformer (No. 108-95B) to resonance.  
(b) Move oscillator output clip from grid of 6K7 to grid of 6A8G and adjust input I.F. transformer (No. 108-96) to resonance.  
(c) With oscillator still connected to 6A8G, readjust output I.F. transformer (108-95B) if necessary.

## 1. R.F. ALIGNMENT: (535-1720 K.C.)

1. With the gang condenser in its minimum capacity position, plates entirely out of mesh, connect an external oscillator in series with a 100 mmf. condenser to the antenna lead and chassis ground and make the following adjustments:  
(a) With external oscillator set at 1720 kilocycles, adjust oscillator trimmer to resonance. This adjustment is on the top of rear section of variable gang condenser. (See Fig. 1).  
(b) Re-set external oscillator to 1400 kilocycles, rotate condenser, pick up oscillator signal and adjust antenna trimmer to resonance. (Top of front section of gang condenser).  
(c) Check sensitivity at 600 and 1000 kilocycles.

## PROCEDURE FOR SETTING THE AUTOMATIC TUNER LEVERS:

There are five levers on the dial by means of which five stations may be selected.

Press **DOWN ALL THE WAY** any one of the automatic tuner levers. Holding it down **FIRMLY**, tune in by means of the tuning knob (No. 2) the station indicated on the station call letter tab above this lever. Turn the tuning knob very slowly back and forth (while still holding lever in downward position) until the signal is clearest. The station will then be accurately tuned in. Release the lever.

Press down another automatic tuner lever. Holding it down **FIRMLY**, carefully tune in the station indicated on the call letter tab above this lever. Release this lever.

Follow this procedure until you have selected all of your favorite stations.

Now hold tuning knob securely with left hand to prevent it from turning, or Rotate the tuning knob (No. 2) to the right (clockwise) as far as it will turn, and with a coin (half dollar), tighten the special locking screw ("C") in the center of the tuning knob, (See Fig. 1).

This screw will lock in place all the stations you have selected on the automatic tuner levers. (Note: Locking screw "C" is loose when radio is shipped from factory).

If you should desire to change any station you selected to another, hold the tuning knob No. 2 securely and with a coin loosen the locking screw "C" one or two turns; select the new station as explained. Be sure to retighten the locking screw, otherwise the stations you have selected will not stay adjusted to the levers.

Description	CONDENSERS	RESISTORS	COILS	SOCKETS	TRANSFORMERS	SPEAKER	MISCELLANEOUS
1 x 40 volt Tubular Condenser	C3	R4, R5, R6	T4	Eight Prong Octal Socket for "6K6"	T6	T7	101-107
.05 x 200 volt Tubular Condenser	C1	R10	Output I.F. Coil Assembly Complete with can	Eight Prong Octal Socket for "6Q7"	50/60 Cycle Transformer 105-115 volt Primary	Five Inch Dynamic Speaker (Field 2000 Ohms)	R8, S1
.01 x 400 volt Tubular Condenser	C6, C10	R2	Input I.F. Coil Assembly Complete with can	Eight Prong Octal Socket for "6A8"	25/60 Cycle Transformer 105-115 volt Primary	Output Transformer for Speaker (Mounted on Chassis)	102-67
.06 x 400 volt Tubular Condenser	C4	R11	Oscillator Coil Assembly Complete	Eight Prong Octal Socket for "5Y3"			
.06 x 600 volt Tubular Condenser	C11	R1	Antenna Coil Assembly Complete	Seven Prong Octal Socket for "6K7"			
Dual 5MFD x 250 W. V. Filter Condenser	C9	R10, R11					
.0005 Mica Type Condenser	C7	R12					
.0001 Mica Type Condenser	C5	R13					
.00025 Mica Type Condenser	C2	R7, R9					
65 Ohm, 45 Ohm, 20 Ohm Metal Grid							
20M Ohm - 1/2 Watt Resistor		R3					
50M Ohm - 1/2 Watt Resistor		R4					
20M Ohm - 1/2 Watt Resistor		R5					
600M Ohm - 1/2 Watt Resistor		R6					
15M Ohm - 1/2 Watt Resistor		R7					
3 Megohm - 1/2 Watt Resistor		R8					
		R9					
		R10					
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		R13					
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