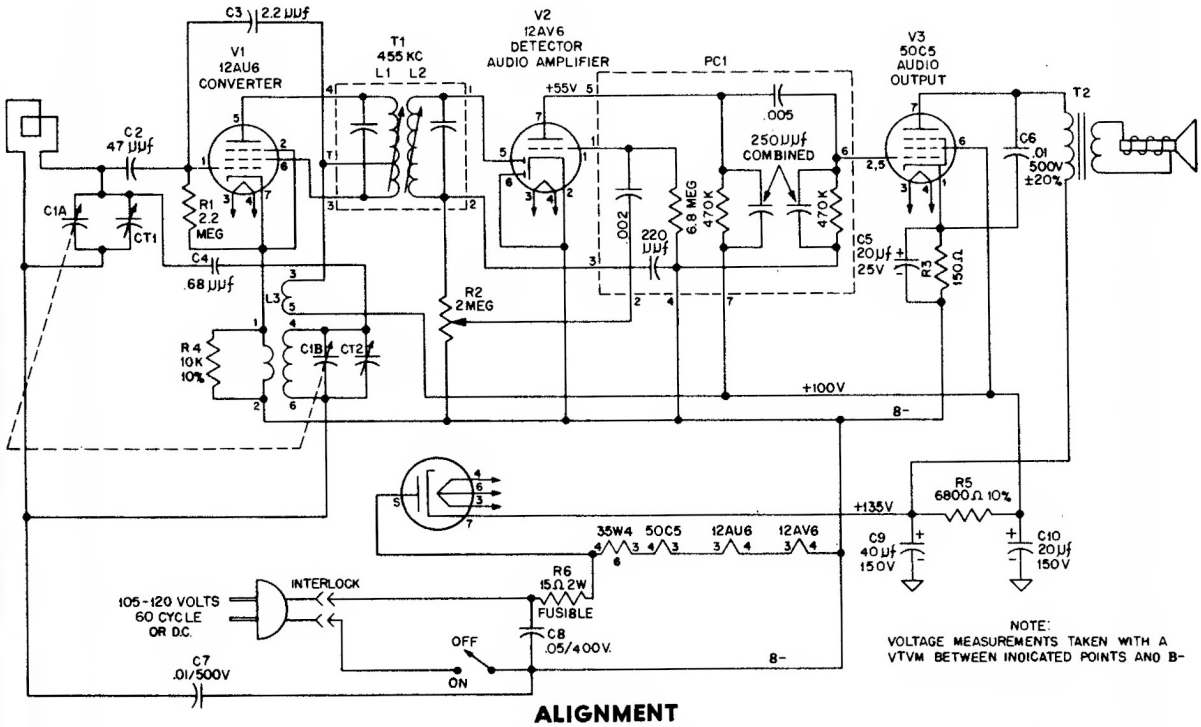
OLYMPIC RADIO & TELEVISION INC.

MODEL 407



ALIGNMENT

The chassis must be removed from the cabinet before alignment can be performed. To remove chassis, 1) remove the cabinet back with loop antenna and line cord, 2) pull the two knobs off the front of the cabinet, 3) unscrew the one screw located behind the tuning knob from the front of the cabinet, 4) slide the chassis out of the cabinet.

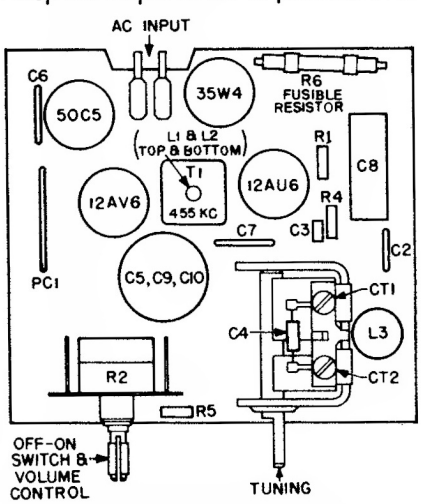
Equipment required: Modulated RF signal generator; output meter; insulated screw-driver, two .1 mfd 600 volt condensers.

To insure proper alignment, a radiated signal will be required during part of the alignment procedure. To radiate a signal, connect a loop of about 6 inches in diameter (one turn of #14 or #12 wire) across the output of the signal generator, and place this loop parallel to the loop of the receiver to be aligned, at a distance of about 10 or 12 inches.

Connect the output meter and signal generator as follows:

Output meter: Connect across the speaker voice coil and turn the volume control to maximum (extreme clockwise position).

Signal generator: When the generator is not used to radiate a signal, connect the low side to the receiver chassis through a .1 mfd condenser, clip the high side through a .1 mfd, 600 volt condenser to the point at which signal injection is required, and keep the output as low as possible. Proceed in the sequence shown in the alignment chart.



TUBE & TRIMMER LAYOUT

ALIGNMENT PROCEDURE CHART

STEP	CONNECT HIGH SIDE OF SIGNAL GENERATOR TO-	SET SIGNAL GENERATOR TO-	TURN RECEIVER DIAL TO-	ADJUST THE FOLLOWING FOR MAXIMUM OUTPUT. (KEEP SIGNAL FROM SIGNAL GENERATOR AS LOW AS POSSIBLE.)
1	ANTENNA SECTION TUNING CONDENSER IN SERIES WITH .1 MFD. COND.	455 KC.	FULL COUNTER-CLOCKWISE POSITION. (CONDENSER PLATES FULLY OPEN)	L2 AND L1 IN SAME ORDER (I.F. TRANSFORMER)
2	USE RADIATED SIGNAL	1620 KC.		CT2 (OSCILLATOR TRIMMER)
3		1500 KC.	MAXIMUM SIGNAL APPROX 1500 KC.	CT1 (ANTENNA TRIMMER)
4	REPEAT STEPS 2 AND 3			

REF. NO.	DESCRIPTION	PART NO.
L3	Oscillator Coil	CL4291
PC1	Printed Circuit	PC4388
R1	Resistor, 2.2 megohms ± 20%, ½w	REB225M
R2	Volume Control, 2 megohms (with switch)	PT4397
R3	Resistor, 150 ohms ± 20%, ½w	REB151M
R4	Resistor, 10,000 ohms ± 10%, ½w	REB103K
R5	Resistor, 6800 ohms ± 10%, ½w	REB682K
R6	Resistor, 15 ohms, 2w, Fusible	RE4393
T1	Transformer, IF (455 kc)	TR4392