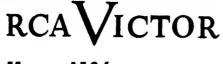
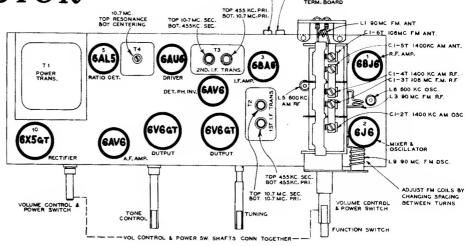


RCA Victor Models AlO6 and 9WlO6, Chassis No. RC-622



MODEL A106 **MODEL 9W106**

Chassis No. RC-622



Alignment Procedure CORRECT ALIGNMENT OF THE FM BAND REQUIRES THAT THE AM BAND BE ALIGNED FIRST

Alignment Indicators:

An RCA VoltOhmyst or equivalent meter is necessary for measuring developed d-c voltage during FM alignment. Connections are specified in the alignment tabulation. An output meter is also necessary to indicate minimum audio output during FM Ratio Detector alignment. Connect the output meter across the speaker voice cail.

The RCA VoltOhmyst can also be used as an AM alignment indicator, either to measure audio output or to measure a.v.c voltage.

When audio output is being measured the volume control should be turned to maximum.

AM Alignment RANGE SWITCH IN BC POSITION

Steps	Connect high side of sig. gen. to—	Sig. gen. output	Turn radio dial to—	Adjust for peak output				
1	Pin No. 5 of V2 in series with .01 mid.	455 kc.	Quiet point at low freq. end.	AM windings.† T3 bottom core (sec.). T3 top core (pri.).				
2				AM windings.f T2 top core (sec.). T2 bottom core (pri.).				
3		1400 kc.	1400 kc.	C1-2T (osc.). C1-5T (ant.). C1-4T (ri.).				
4	Short wire placed near loop for radiated signal	600 kc.	600 kc.	L8 (osc.) with 10,000 chms resistor from RF stator to gnd. (rocking gang)				
5				L5 (RF) with the 10,000 phms removed.				
6	Repeat steps 3, 4 and 5 until no improvement in sensitivity is obtained.							

Use alternate loading. T Use alternate loading.

Alternate loading involves the use of a 47,000 ohm resistor to load the AM plate winding while the AM grid winding of the SAME TRANSFORMER is being peaked. Then the grid winding is loaded with the resistor while the plate winding is peaked. Only one winding is loaded at any one time. Remove the 47,000 ohm resistor after T3 and T2 have been aligned.

Oscillator frequency is above signal frequency on both AM and FM.

Tube and Trimmer Locations

Signal Generator:

For all alignment operations connect the law side of the signal generator to the receiver chassis. The output should be adjusted to provide accurate resonance indication at all times. If output measurement is used for AM alignment the output of the signal generator should be kept as low as possible to avoid a.v.c action.

FM Alignment RANGE SWITCH IN FM POSITION-VOLUME CONTROL MAXIMUM

		COMINCE	12 434 11-1 () 1-1			
Steps	Connect high side of sig. gen. to—	Sig. gen. output	Turn radio dial to—	Adjust for peak output		
ı	Connect the d-c probe of a VoltOhmyst to the negative lead of the 2 mid. capacitor C42 and the common lead to chassis. Turn gang condenser to max. capacity (fully meshed). Volume Control max.					
2	Pin 1 of V4 6AU6 in series with 470 ohm resistor.	10.7 mc. modulated 30% 400 cycles AM (Approx. .05 volt).	Max. ca- pacity (fully meshed).	T4 top core for max. d-c voltage across C42. T4 bottom core for min. audio output. *		
3		10.7 mc. Adjust to provide about 4 volts indi- cation on VoltOhm'yst during alignment.		FM windings.†† T3 top core (sec.). T3 bottom core (pri.).		
4				FM windings.†† T2 top core (sec.). T2 bottom core (pri.).		
5	High and low slde of signal gen. through two 120 chm resistors. To ant. terminals.	90 mc.	90 mc.‡	L9 (osc.).**		
8		106 mc.	106 mc.	C1-6T (ant.). C1-3T (rf.).		
7 .		90 mc.	80 mc.	L1 (ant.).** L3 (ri.).**		
8	Repeat steps 6 and 7 until no improvement in sensitivity is obtained.					

*Two or more points may be found which lower the audio output. At the correct point the minimum audio output is approached rapidly and is much lower than at any incorrect point. # Align T3 and T2 by means of alternate loading as explained under AM alignment. Use a 680 ohm resistor instead of a 47,000 ohm resistor and load the FM windings.

**LI, L3 and L9 are adjustable by increasing or decreasing the spacing between turns.

After dial pointer has been set accurately on calibration point for "A" band (see dial indicator and drive drawing) tune receiver to 90 mc. on FM using dial scale as reference