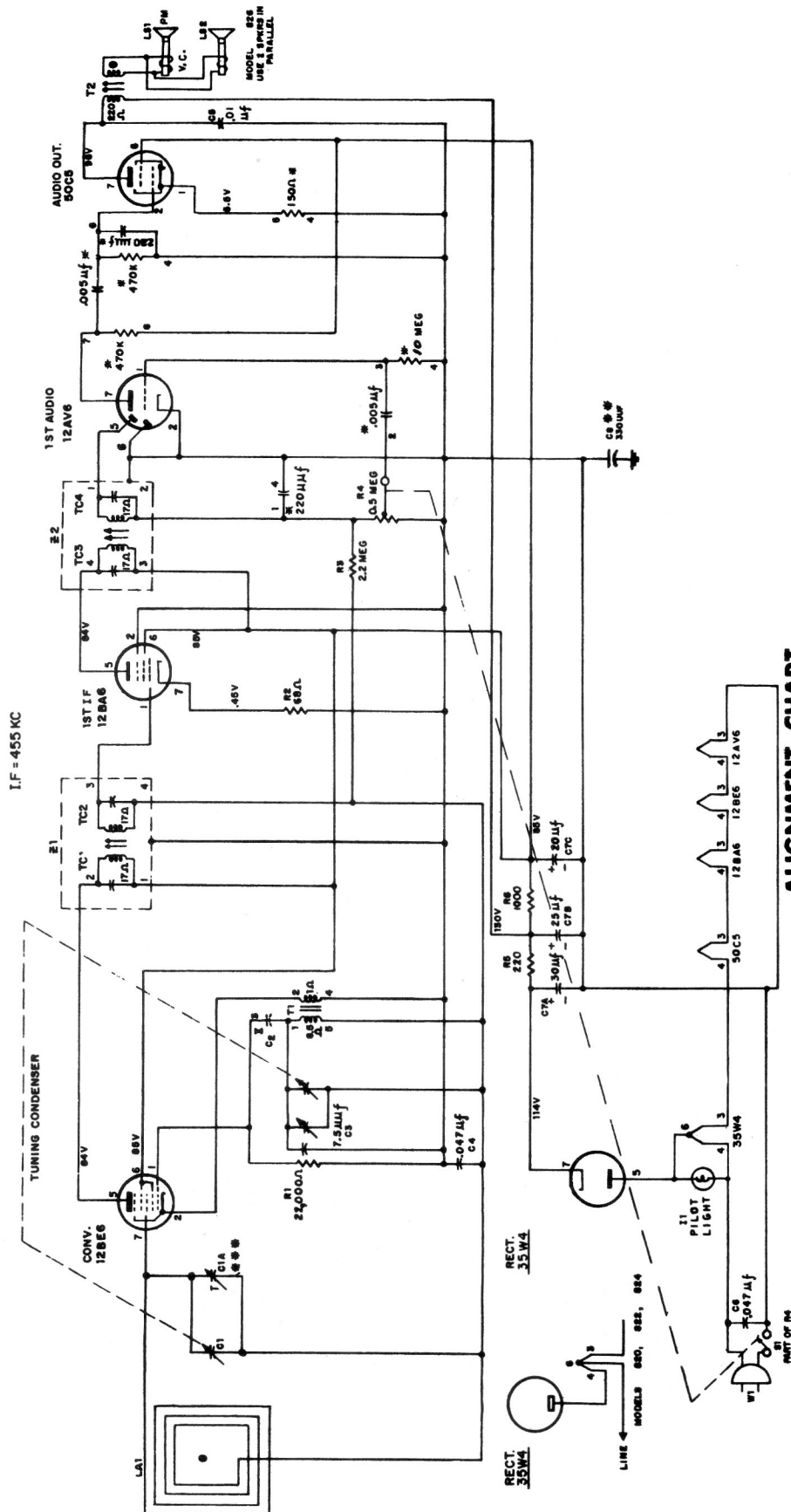




ALIGNMENT CHART

STEP	SIGNAL GENERATOR		RADIO		ADJUST
	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	
1	Ground lead to B-; output lead through .1 mf condenser to grid (pin 7) of 12BE6.	455 KC	Tuning gang fully open.	Adjust tuning cores, in order given, for max. output. TC3 and TC2 are located on top of transformers.	TC4—2nd i-f sec. TC3—2nd i-f pri. TC2—1st i-f sec. TC1—1st i-f pri.
2	Radiating loop. (See Note below).	1620 KC	1620 KC*	Adjust for maximum output.	C1-B—osc.
3	Same as step 2.	1500 KC	1500 KC	Adjust for maximum output.	C1-A—serial

NOTE: Make up a 6-8 turn, 6-inch diameter loop from insulated wire, connect to signal-generator leads, and place near radio loop.
* For proper adjustment of the oscillator trimmer, fully open the tuning gang and insert a .006-inch non-metallic shim between the heel of the rotor and the top of the stator plates. Close the tuning gang sufficiently to hold the shim in place, and then remove the shim without disturbing the gang setting.

ALIGNMENT PROCEDURE

RADIO CONTROLS—Set volume control to maximum. Set tuning control as indicated in chart.

OUTPUT METER—Connect across voice coil terminals.

SIGNAL GENERATOR—Connect generator and set frequency as indicated in chart. Use modulated output, 30%.

OUTPUT LEVEL—During alignment, adjust signal-generator output to hold output-meter reading below .5 volts.

**SPEAKER PHASING
(Model 826 only)**

When replacing or reconnecting the two, parallel speakers, it is possible that an out-of-phase condition may exist. This is readily apparent by weak output and serious distortion. To correct, interchange the leads to one of the speakers.

NOTES:

All capacitors over 1 are in mmf, unless otherwise noted.
All capacitors under 1 are in mfd.

All resistors are 1/2 watt, 10%, carbon type, unless otherwise noted.

Voltages are taken with a 20,000 ohm/volt meter, between the point indicated and B—, under no-signal condition.

⊕ Indicates a resistance of less than one ohm.

I1, pilot light, is used in Model 826 only.

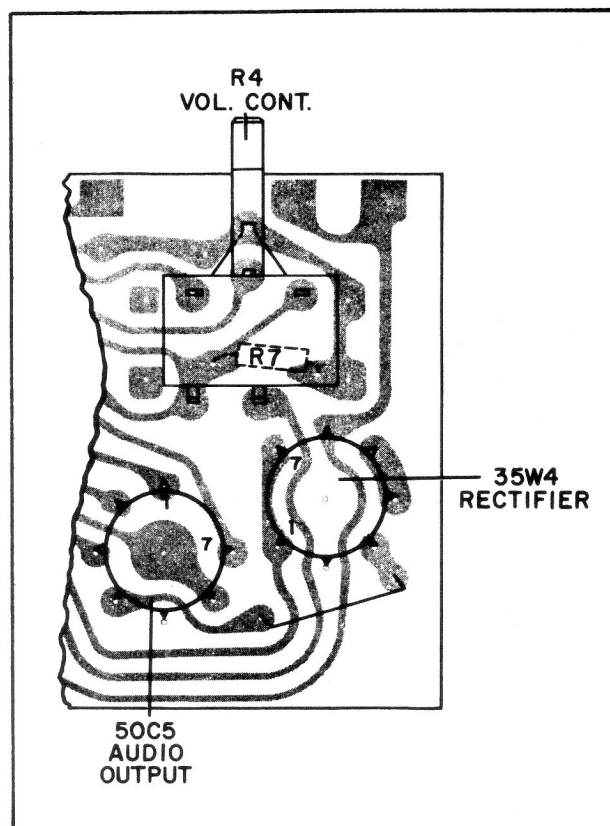
See insert of 35W4 wiring for Models 820, 822, and 824.

Model 826 has two speakers connected in parallel.

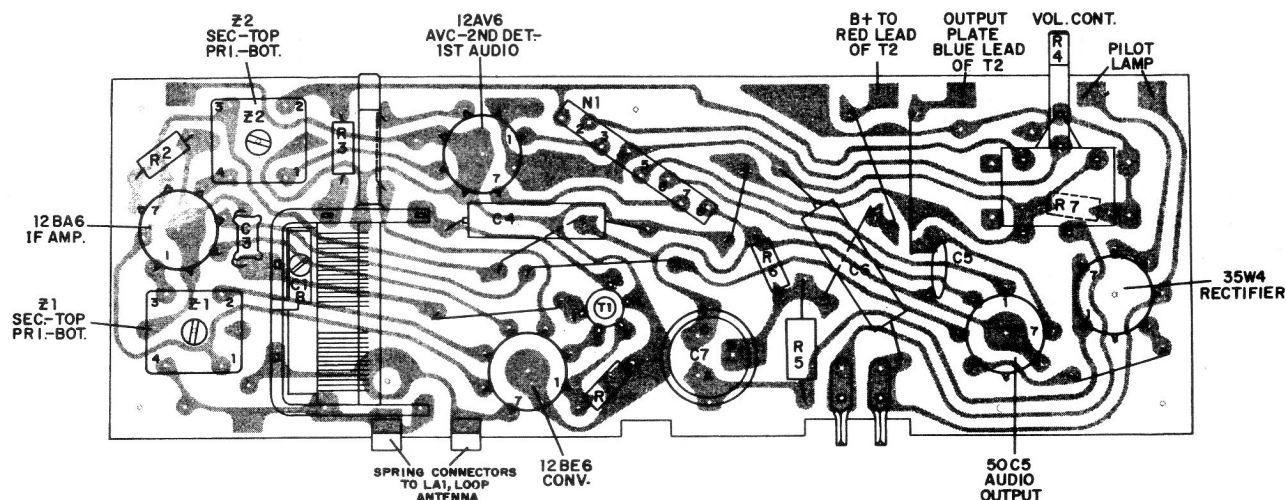
*Indicates component is part of N1.

**C8 is grounded to volume control frame.

***CIA is on underside of panel.



Partial Printed Panel Showing 820, 822 and 824 AC Input Circuit Foil Difference



*Printed Panel Component Layout—Models 820, 822, 824, and 826
(See Figure Above for 820, 822 and 824 AC Input Difference)*