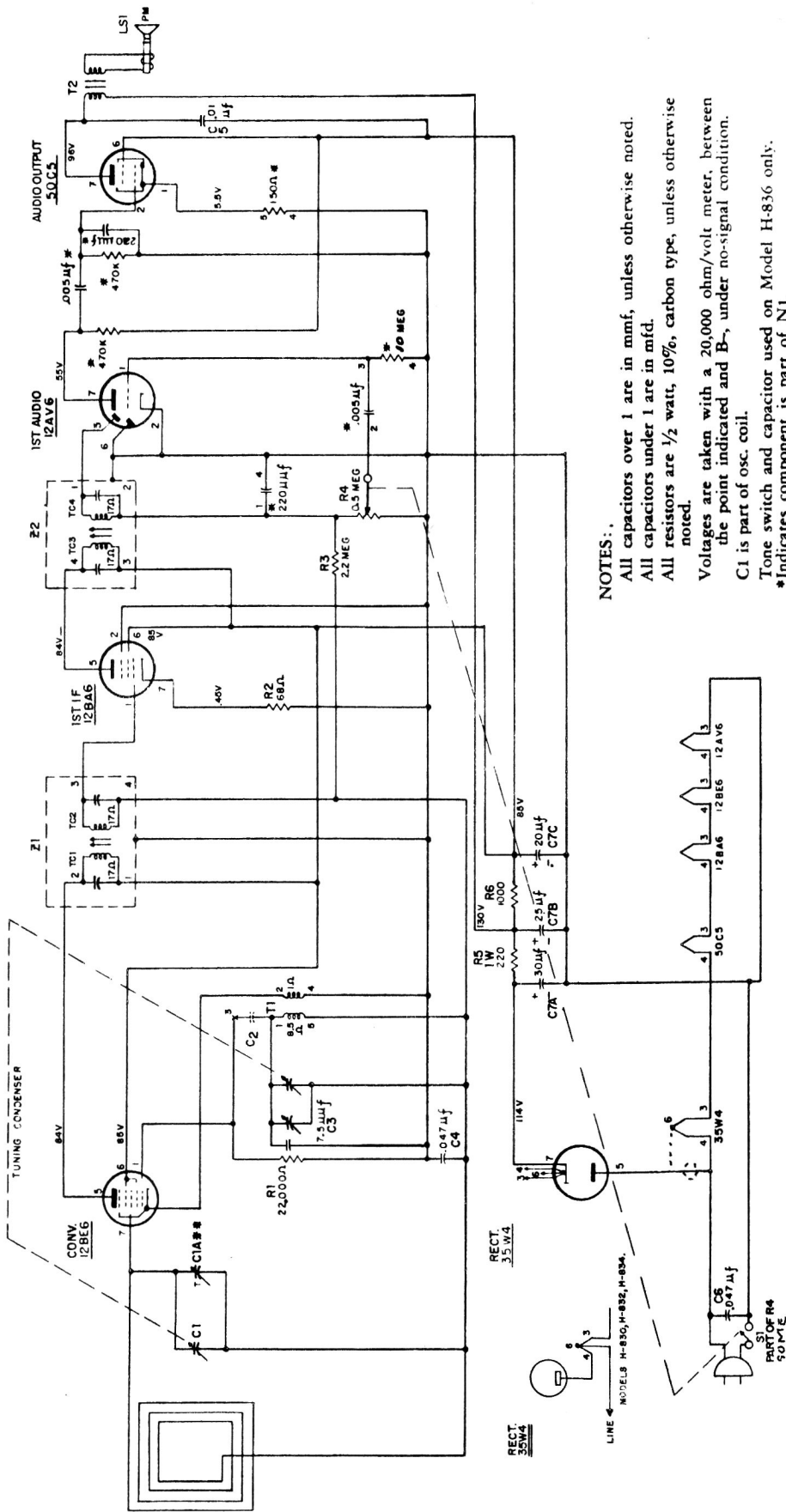


# PHILCO

## 830, 2, 4, 8



**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.
- C1 is part of osc. coil.
- Tone switch and capacitor used on Model H-836 only.
- \*Indicates component is part of N1.
- \*\*CIA is on underside of panel.

**ALIGNMENT CHART**

STEP	SIGNAL GENERATOR CONNECTION TO RADIO	DIAL SETTING	SETTING DIAL	RADIO SPECIAL INSTRUCTIONS	ADJUST
1	Ground lead to B-; output lead through a .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 TC5 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—aerial

**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.