

### ALIGNMENT PROCEDURE

**OUTPUT INDICATOR**—Connect the output indicator (a 1000-ohm-per-ohm, a-c voltmeter, or an oscilloscope) across the voice-coil terminals.

**SIGNAL GENERATOR**—Use an AM r-f signal generator. Connect the ground lead to chassis, and connect the output lead as indicated in the alignment chart.

**OUTPUT LEVEL**—Attenuate the signal-generator output throughout the alignment so as to maintain the output level below .4 volt.

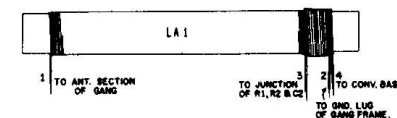
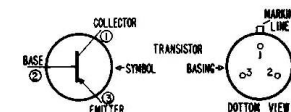
**RADIO CONTROLS**—Set the volume control to maximum. Set the tuning control as indicated in the alignment chart.

### ALIGNMENT CHART

STEP	SIGNAL GENERATOR		RADIO		ADJUST
	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	
1	Connect signal generator through a .1-uf. condenser to ant. section of gang.	455 kc.	Tuning gang fully open.	Adjust for maximum output in order given.	Z3—3rd i-f pri. Z2—2nd i-f pri. Z1—1st i-f sec. (Bottom Core) Z1—1st i-f pri. (Top Core)
2	Use radiating loop. (See NOTE 1 below).	600 kc.	600 kc.	Adjust for maximum output. Rock tuning gang while making this adjustment.	T1—osc. core
3	Same as step 2.	1620 kc.	1620 kc. (Tuning gang fully open)	Adjust for maximum output.	C1B—osc. trimmer
4	Same as step 2.	1400 kc.	1400 kc.	Adjust for maximum output.	C1A—antenna trimmer
5	Repeat steps 2, 3 and 4 until no further improvement is obtained. Always stop on step 4.				

**NOTE 1.** Use a 6-to-8-turn, 6-inch diameter loop made up of insulated wire. Connect to generator terminals, and place about one foot from radio loop.

\* VOLTAGES READ UNDER NO SIGNAL CONDITIONS WITH A 20,000 PER VOLT METER. COIL RESISTANCES READ WITH COIL CONNECTED IN THE CIRCUIT.



MODEL	CODE	TRANSISTORS	
		1ST AUDIO	OUTPUT
T-700	124	T 1001	T1007
T-700	126	T 1000	T1008
T-800	124	T 1001	T1007
T-800	126	T 1000	T1008

(Continued on page 121, at right)

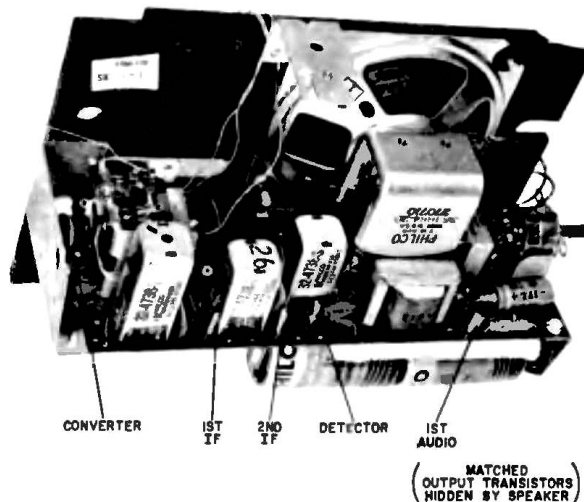
**PHILCO TRANSISTOR RADIOS**  
**MODELS T-700 and T-800**  
**CODES 124 and 126**

## SERVICE NOTES

When signal tracing, inject signal at transistor collector and limit input to keep signal across speaker below 0.4 volts.

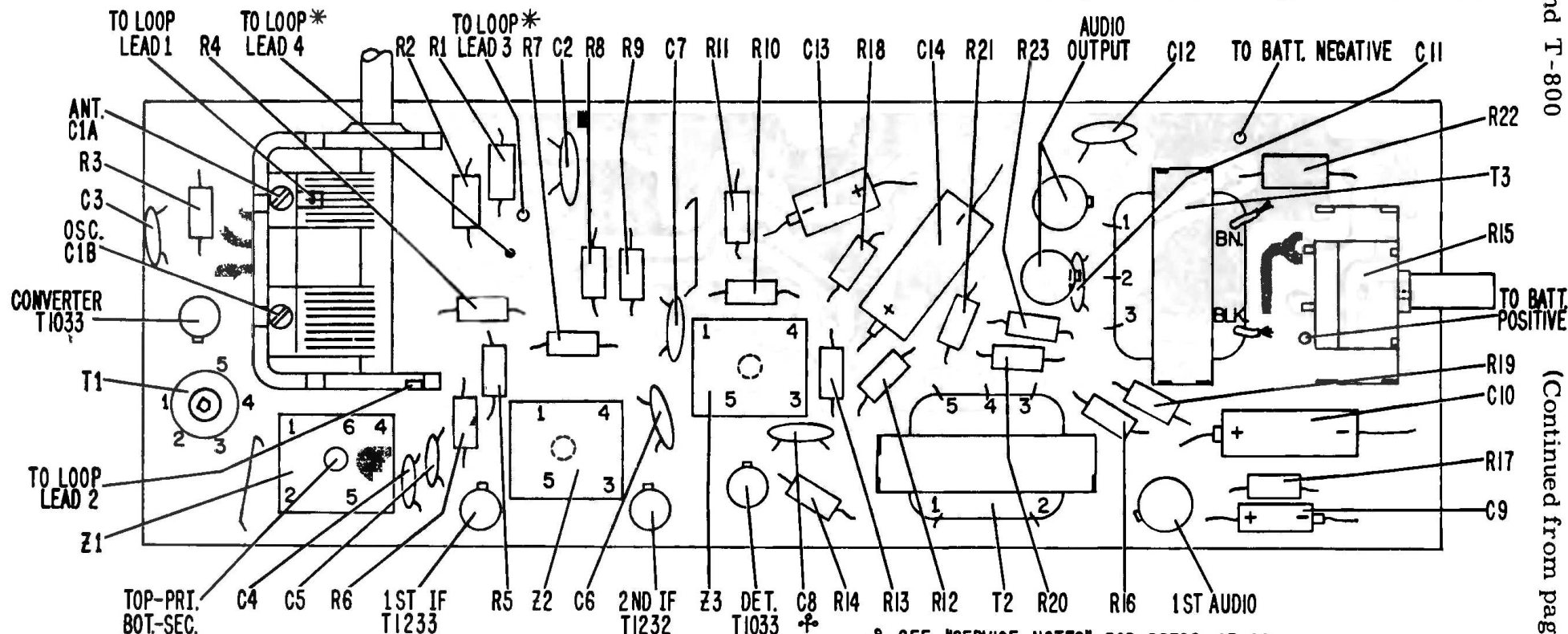
Normally, the transistors should be the last item suspected.

The dress (position) of condenser C8 may be helpful in reducing harmonic whistle when encountered. C8 may be bent over toward R14 and the detector transistor. In sets where C8 is in this bent position, do not disturb.



## REPLACEMENT PARTS LIST

T1	Transformer, oscillator	32-4869-2
T2	Transformer, audio driver	32-8813
T3	Transformer, audio output	32-8812
T1033	Transistor, converter and 2nd detector, 2 used	34-8000-3
T1233	Transistor, 1st I-F amplifier	34-6000-12
T1232	Transistor, 2nd I-F amplifier	34-6000-11
	Transistor, 1st audio, code 124, T1001	34-6001-16
	Transistor, 1st audio, code 126, T1000	34-6001-15
	Transistors, output, matched pair, code 124, T1007	34-8008
	Transistors, output, matched pair, code 126, T1008	34-6008
Z1	Transformer, 1st I-F	32-4738-1
Z2	Transformer, 2nd I-F	32-4738-2
Z3	Transformer, 3rd I-F	32-4738-3
	Printed wiring panel	54-6497
	Battery bracket and spring contact assy., end of panel	78-10141
	Battery bracket and contact assy., center	78-10142



✱ SEE "SERVICE NOTES" FOR DRESS OF C8.

\* LOOP LEADS 3 & 4 DRESS BETWEEN EDGE OF PRINTED PANEL & MASONITE FRONT PLATE & CONNECT TO TIE LUGS INDICATED ON FOIL SIDE OF PANEL.

Composite Panel View — Showing Parts Replacement and Tuning Adjustments

PHILCO Models T-700 and T-800

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