

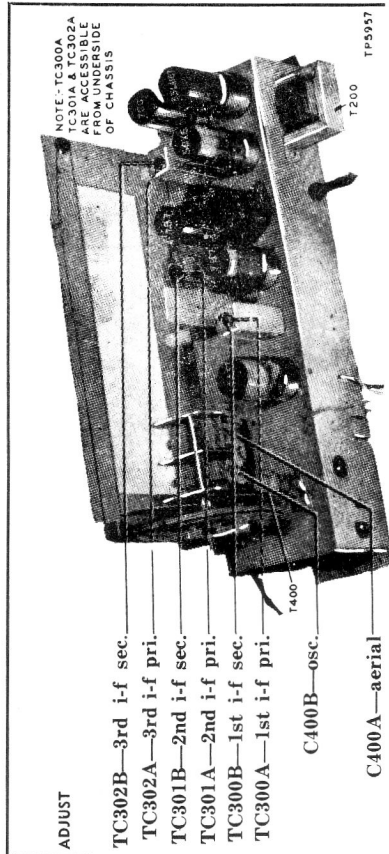
RADIO CONTROLS—Set volume controls to maximum, turn tone control fully counterclockwise, and set radio-phonograph switch to radio position.

OUTPUT LEVEL—During alignment, adjust signal-generator output to maintain output-meter indication below 1.25 volts.

DIAL—Calibration and pointer-index measurements are shown in figure 7. With tuning condenser fully meshed, set pointer to index mark.

OUTPUT METER—Connect across voice coil. **SIGNAL GENERATOR**—Connect as indicated in chart. Use modulated output.

Step	SIGNAL GENERATOR		RADIO	
	Connection to Radio	Dial Setting	Dial Setting	Special Instructions
1	Ground lead to B—; output lead through .1-mf. condenser to mixer grid (pin 5 of 14AF7).	460 kc.	540 kc.	Adjust tuning cores, in order given, for maximum output.
2	Radiating loop (see note below).	1600 kc.	1600 kc.	Adjust trimmer for maximum output.
3	Same as step 2.	1500 kc.	1500 kc.	Adjust trimmer for maximum output.



Top View, Showing Trimmer Locations

RADIATING LOOP: Make up a 6—8 turn, 6-inch diameter loop from insulated wire; connect to signal-generator leads and place near radio loop aerial. The loop aerial must be connected.

Philco TROUBLE-SHOOTING Procedure

For rapid trouble-shooting, the radio circuit is divided into four sections.

After isolating the trouble to a single stage, the defect is located by: first, testing the tube; second, measuring tube electrode voltages; third, measuring circuit resistances; fourth, substituting condensers. The trouble revealed should be corrected before testing further.

Preliminary Checks

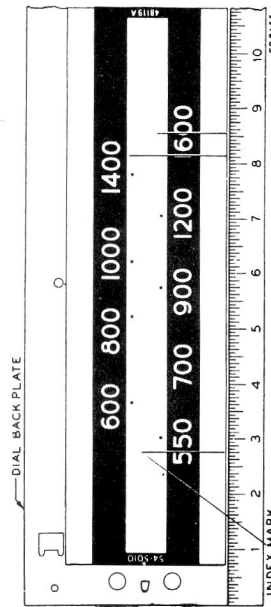
To avoid possible damage to the radio, the following preliminary checks should be made before it is turned on:

- Inspect both the top and the bottom of the chassis. Make sure that all tubes are secure in the proper sockets, and look for any broken shorted connections, burned resistors, or other obvious sources of trouble.
- Measure the resistance between B+ (pin 7 of 50X6 rectifier) and B—, test point B. When

the ohmmeter test leads are connected in the proper polarity, the highest resistance reading will be obtained. If the reading is lower than 3000 ohms, check condensers C102A and C102B for leakage or shorts. The resistance value given is much lower than normal, and is not intended as a quality check of these condensers; the value given is the lowest at which the rectifier will operate safely while the voltage checks of Section 1 (power supply) are performed.

SPECIFICATIONS

CABINET	Wood Console
Model 726	Six-tube superheterodyne
CIRCUIT	540—1620 kc.
FREQUENCY RANGE	3 watts
AUDIO OUTPUT	A.C.
OPERATING VOLTAGE	726—115-120v. 60 cycle,
	726-2—105-120v. 25 cycle,
	A.C.
POWER CONSUMPTION	
Radio	65 watts
Phonograph	30 watts



Calibration Measurements for Dial Backplate