

Philco Model 38-C325 Battery Operated Receiver

Dial Adjustment—With the gang condenser full in, the glowing arrow should be set on the centre line of the three vertical lines beyond 530 K.C.

Output Meter—The 025 output meter is connected between one of the plate prongs of the 1J6G tube and the chassis. Then adjust the meter to use the 0 to 30 volt scale.

Intermediate Frequency Circuit

Frequency 470 K.C.

1. Connect the 088 signal generator output lead through a .1 mfd. condenser to the control grid of the 1A6 tube and the ground connection of the output lead to the chassis. Then turn the tuning condenser to approximately 580 K.C., and adjust the signal generator for 470 K.C.

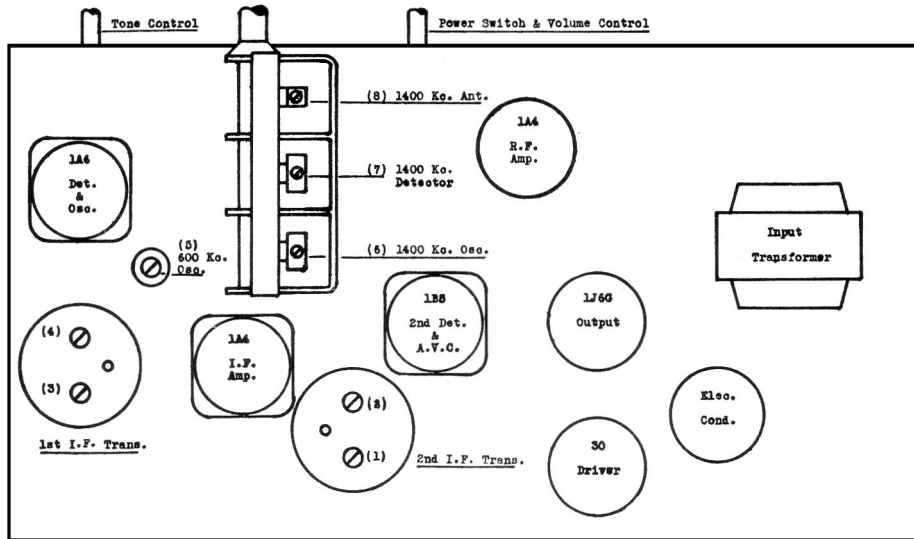


Fig. 1.—Location of Compensators

2. Now adjust compensators (1) and (2) on the second I.F. transformer, and (3) and (4) on the first I.F. transformer for maximum output.

Radio Frequency Circuit. 530 to 1550 K.C.

1. Remove the signal generator output lead from the 1A6 tube and connect it through a 200 Mmfd. condenser to the white antenna lead of the receiver, and the generator ground lead to the brown ground lead of the receiver.
2. Turn the signal generator to 1400 K.C. Then tune the receiver dial to the 1400 K.C. mark and adjust compensators (6), (7), and (8) for maximum output.
3. Turn the signal generator and receiver dials to 600 K.C., and adjust compensator (5) as follows:

First tune compensator (5) for maximum output. Then vary the tuning condenser for maximum output. Now re-tune the compensator (5) and again vary the tuning condenser back and forth about 600 K.C. for maximum output. This operation of first tuning the compensator and then the tuning condenser is continued until maximum output is obtained at the 600 K.C. frequency.

4. Re-adjust the 1400 K.C. end of the dial as given above.

