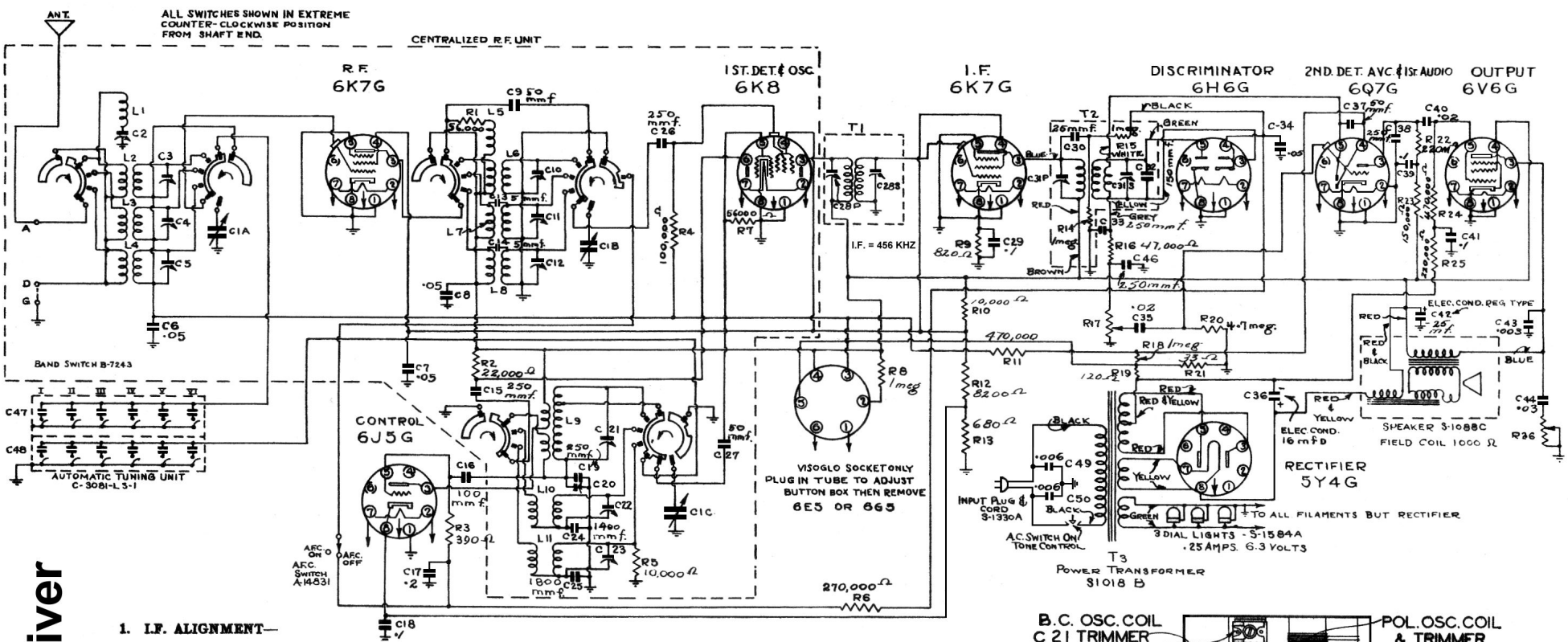
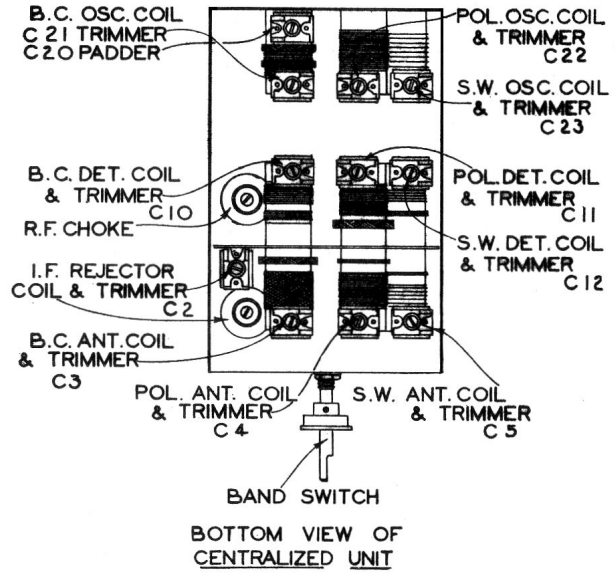
Sparton Model 89 A.C. Receiver





BOTTOM VIEW OF CENTRALIZED UNIT

1. I.F. ALIGNMENT—

Set the service oscillator at 456 K.C. and connect the lead to the grid cap of the converter tube (6K8). Adjust trimmers C28P, C28S, C31P, and C31S. While making the I.F. adjustments the set should be tuned to 1500 K.C. on the B.C. band and the A.F.C. switch should be in the off position (full left).

The above adjustments are all that are necessary for the I.F. alignment and the A.F.C. circuit.

2. B.C. OSCILLATOR TRIMMER—

Turn the pointer to 1500 K.C. on the B.C. band. Feed a 1500 K.C. signal in through the antenna terminal from the service oscillator and adjust trimmer C21 until signal is tuned in.

3. B.C. OSCILLATOR PADDER—

With the service oscillator set at 600 K.C. and the pointer tuned to 600 K.C. on the B.C. band, adjust trimmer C20 until signal is tuned in. Recheck as in 2 above.

4. B.C. ANTENNAE AND R.F. TRIMMERS—

With the set tuned to 1500 K.C. and the oscillator set at the same frequency, adjust trimmers C3 and C10 for maximum output, with signal applied to Ant. terminal.

5. P. B. OSCILLATOR TRIMMER—

Turn the pointer to 5.0 M.C. on the police or first S.W. band. Adjust trimmer C22 for maximum output while applying a 5000 K.C. signal to the grid of the converter tube (6K8).

6. P.B. ANTENNAE AND R.F. TRIMMERS—

Adjust trimmers C4 and C11 for maximum output with the same dial settings as in 5 above with signal applied to antenna.

7. S.W. OSCILLATOR TRIMMER—

Turn the pointer to 15.0 M.C. on the second S.W. band. Adjust trimmer C23 for maximum output while applying a 15000 K.C. signal to the grid of the converter tube (6K8).

8. S.W. ANTENNAE AND R.F. TRIMMERS—

Adjust trimmers C5 and C12 for maximum output with the same dial settings as in 7 above with signal applied to Ant.

9. I.F. REJECTOR TRIMMER—

The I.F. rejector is in use only while the set is being operated on automatic tuning. For this reason switch to the automatic control (selectronne), and depress a button tuned to 900 K.C. or higher. Feed a 456 K.C. signal in the antenna terminal and adjust C2 for **minimum** output.

10. SELECTRONNE TRIMMERS—

There are two trimmers only for each of the six buttons on the selectronne unit. When using automatic tuning two tuned stages and one untuned stage of R.F. are in use. On manual tuning there are three tuned stages employed.

There is no Viso-glo tube used in the model 89 as standard equipment. However, to facilitate alignment of stations on the selectronne unit, provision has been made in the back of the chassis for a 6E5 or 6G5 tube. When setting up stations the service man can plug a 6E5 or 6G5 in before starting the alignment.

To set up a station on the buttons first remove the discriminator tube (6H6G), being sure tube removed is the discriminator tube as indicated in the top view of the chassis. Tune the desired station in manually, then switch to automatic tuning (selectronne), push in the button you wish and locate the same station with the oscillator trimmer (oscillator trimmers are the top row) back of the depressed button. Next peak the lower trimmer until maximum signal is obtained. Repeat the procedure for other five buttons. Replace 6H6G tube.

Sparton Chassis Layout