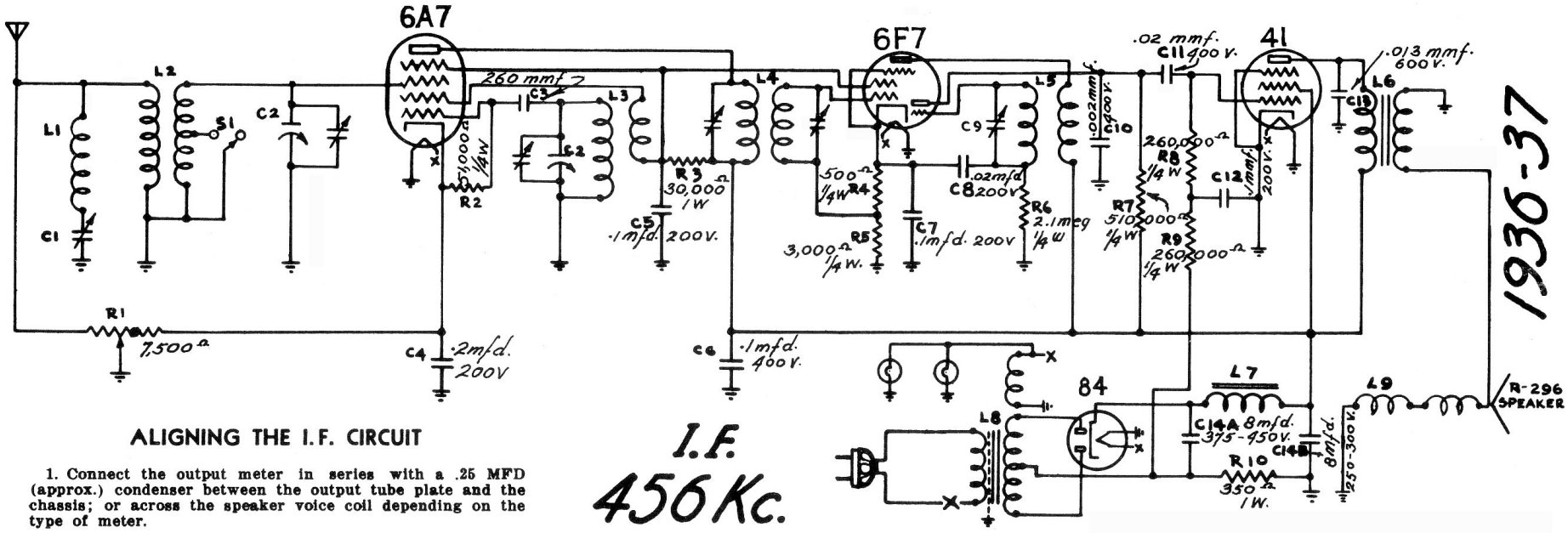


I.F. 456 Kc.

MODEL R-192

ALIGNING THE I.F. CIRCUIT

1. Connect the output meter in series with a .25 MFD (approx.) condenser between the output tube plate and the chassis; or across the speaker voice coil depending on the type of meter.

2. Turn the volume control to maximum. (Note: the volume control should be left in this position during the whole alignment procedure. Ground the antenna post to the chassis. (The antenna post is marked A).

3. Turn the range switch to the right to the Broadcast position.

4. Adjust the test oscillator to 456 K.C. and connect its output to the control grid cap of the 6A7 first detector and the chassis.

5. Align the three I.F. trimmers beginning with C9 for maximum output as indicated on the output meter.

6. Repeat all I.F. trimmer adjustments since the changing of each trimmer will affect the others to a certain extent.

456 K.C. WAVE TRAP ADJUSTMENT

1. Disconnect the antenna post from ground and connect it to the ouput of the test oscillator through a dummy antenna. A 200 or 250 MMFD. condenser will serve this purpose.

2. Without changing the test oscillator from the frequency setting used to align the I.F. circuits, adjust the wave trap trimmer C¹ for minimum output. Increase the test oscillator output as a minimum is approached so that the trimmer can be accurately adjusted. It is very sharp.

NOTE: If code interference is troublesome on some frequency in the neighbourhood of 456 K.C. adjust the wave trap trimmer until it is a minimum with a signal from the test oscillator of the same frequency as the interfering code signal.

DIAL CALIBRATION

If the receiver should require calibration proceed as follows,—

1. Turn the gang condenser to full mesh and check to see that the dial pointer indicates 530. If it does not, loosen the screws holding the pointer and re-set it.

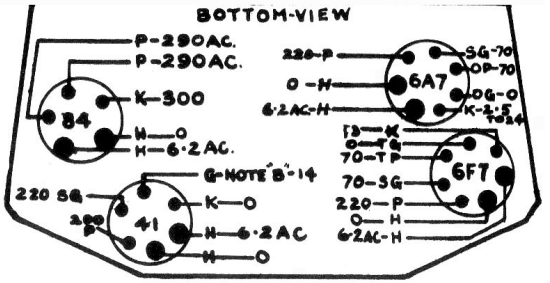
2. Adjust the test oscillator to 1400 K. C. and connect it to the antenna and ground terminals of the set through a dummy antenna.

3. Turn the knob till the pointer indicates 1400 K. C. on the scale and adjust the trimmers on the gang for maximum output as indicated on the output meter.

R.F. ALIGNMENT

1. Set the test oscillator to 1400 K.C. and apply it to the receiver as above.

2. Turn the dial pointer to 1400 K.C. on the scale and adjust the trimmers on the gang for maximum output. Adjust the oscillator trimmer first; it is the one nearest to the front of the set. These trimmers can be reached through the hole in the back cover of the case.

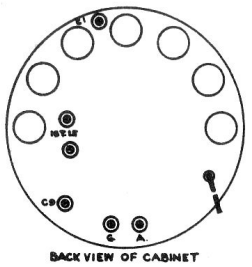


Voltages and Tube layout.

Note-"A"-all voltages to chassis using a 1000 ohms. per. volt. meter.

Note-"B"-measured across resistor -"R10."

Note-"C"- bias voltage across R4 - 2 volts



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DATA SHEET STEWART-WARNER-37 1936-37

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