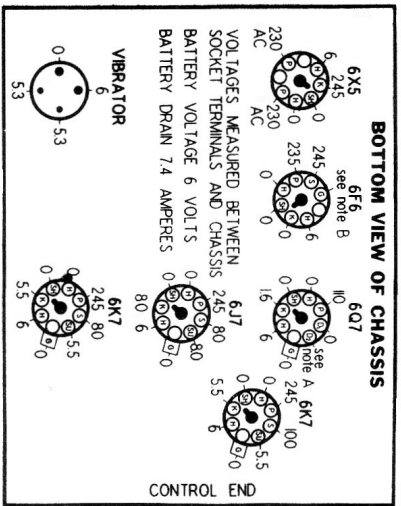


SOCKET VOLTAGES



The I.F. of this receiver is 262 kc. and a signal source accurately calibrated to this frequency must be used for alignment purposes. Three tuning adjustments are provided, one for the second I.F. transformer and two for the first. A hole has been placed in the rear cover of the case directly over the first I.F. primary adjustment so that removal of the cover when aligning is not necessary.

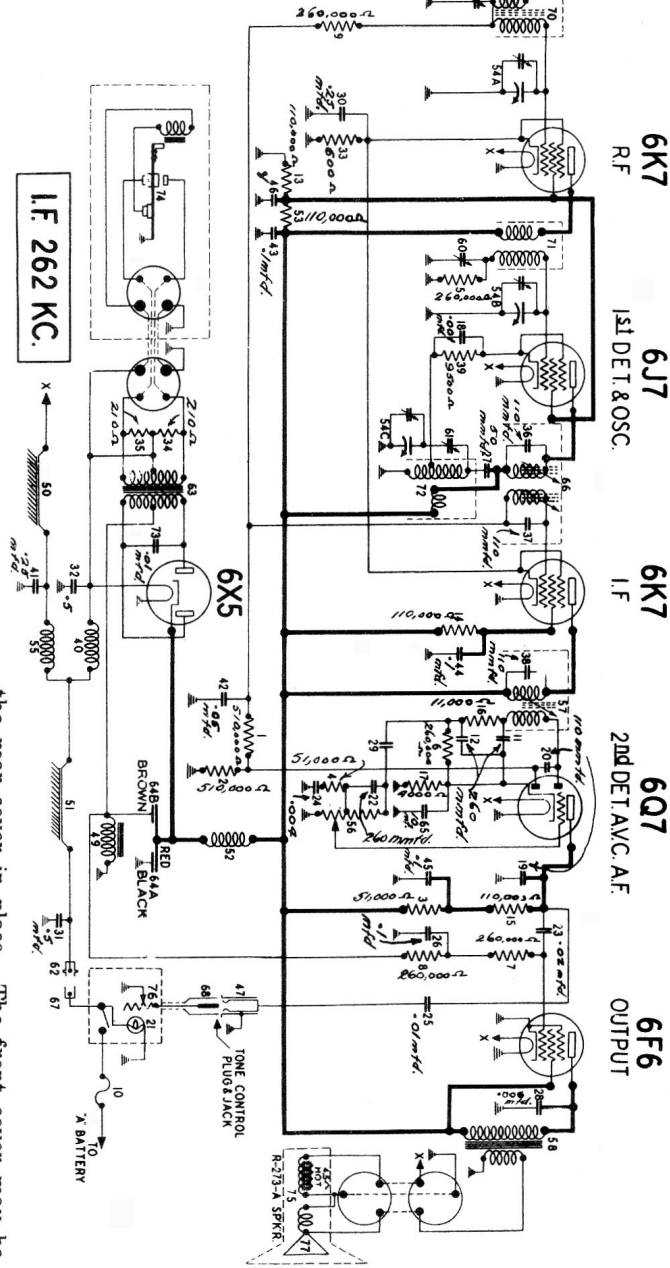
INTERMEDIATE FREQUENCY AMPLIFIER

The following sequence of operation must be followed:

1. Connect output of test oscillator to grid of 6J7 tube. A capacity of from 1/2 to 1/10 M.F.D. must be placed in series with this lead.
 2. Set test oscillator to 262 kc.
 3. Adjust the second I.F. trimmer (on top of can) for greatest output.
 4. Adjust the first I.F. secondary trimmer (on top of can) for greatest output.
 5. Adjust the first I.F. primary trimmer (on bottom of can—through back) for greatest output.
 6. Repeat operations 3, 4 and 5 in sequence to insure accuracy of adjustment.
- ... RADIO FREQUENCY ALIGNMENT ...

Note: During all aligning operations the volume control must be set in the full on position and the signal input kept at the lowest value, giving a reasonable output meter reading.

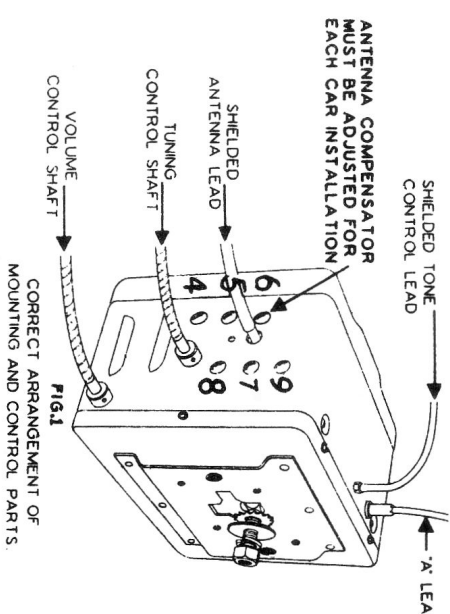
The rather unusual circuit employed in the radio frequency section of this receiver must be aligned according to a definite procedure if accuracy of dial



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calibration and the greatest sensitivity are to be obtained. The sequence of operations given below must be followed without deviation.

For the best results all of the following operations should be performed with the receiver in its case and



1. Connect output of signal generator to antenna jack of set through a dummy antenna of 200 MMFD capacity. See Fig. 1.
 2. Turn tuning knob to left until variable condenser is closed.
 3. Set dial so that pointer is at last line past 550 kc.
 4. Tune set to 600 kc. on dial.
 5. Tune test oscillator to exactly 600 kc.
 6. Adjust padding condensers 4, 5 and 6 in sequence noted to give greatest output as shown on output meter
- Note:** The adjustment of the oscillator padding condenser (screw 4) must be made with an insulated screw driver having at the most a small metal tip. Capacity to ground will upset adjustments if an ordinary screw driver is used.
7. Tune set to 1400 kc. on dial.
 8. Tune test oscillator to exactly 1400 kc.
 9. Adjust trimmers 7, 8 and 9 in sequence noted to give greatest output as shown on the output meter.
 10. Repeat operations 4 to 9 in same sequence until no further improvement can be made. Adjustments must be repeated at least once and if the set is badly out of alignment, a second repetition is usually necessary to give test results.