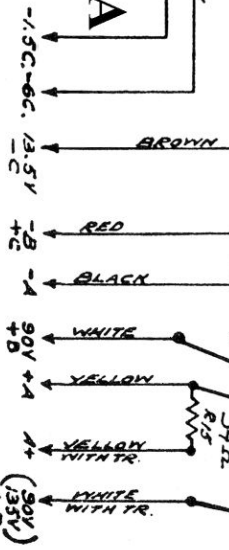


BOTTOM VIEW OF COILS

Marconi Models 60, 61, 60A, 61A Battery Operated Radio



TO LOUD SPEAKER.
 N2-49867

Marconi Models 60, 61, 60A, 61A Battery Operated Radio

Wiring diagram above is for Models 60 and 61, Models 60A and 61A are identical except that automatic bias is provided by R1, R2 and R3 and plate return of Type 33 tube connects to 90 volt lead. These changes are shown at right.

Before attempting to make any repairs or adjustments to this receiver, make sure that—(1) the aerial and ground are in o.k. condition. Satisfactory results cannot be expected with an inadequate aerial. (2) All tubes are o.k., the fact that a tube lights is not an indication of its condition. (3) All batteries are o.k., batteries should be tested with the receiver turned ON as the voltage may be much lower under load.

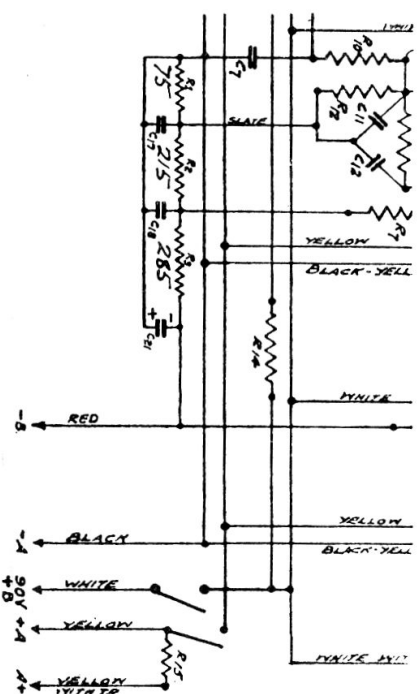
ALIGNMENT:

Correct alignment can only be obtained by using a Test Oscillator and an output meter. The latter should be connected across the speaker voice coil. Always have the Volume control turned on full and reduce the signal from the Test Oscillator to give a small reading on the output meter.

I.F. Trimmers:—Connect a 175 K.C. Test Oscillator to the grid cap of the 1A6 tube and to Chassis, leaving the grid clip in place. If there is no blocking condenser in the test oscillator, a .1 Mf condenser should be connected in the lead from the T.O. to the grid cap. Adjust, in order, C6, C4, and C22 for maximum output.

R.F. Trimmers:—With the gang condenser set at minimum capacity the dial pointer should be adjusted to $\frac{1}{8}$ " below the last index mark at the high frequency end of the dial. Connect the test oscillator to the aerial lead (blue) and to the chassis. Tune the receiver to 150 and supply a 1500 K.C. signal. Adjust in order, C24, C23, C7. Tune the receiver to 58 and supply a 580 K.C. signal. Adjust the oscillator padding condenser C3 while rocking the dial back and forth a few degrees.

Battery Equipment, Models 60 and 61:—This receiver has been designed to give excellent performance combined with the greatest possible economy of operation with a 90 volt "B" battery. If greater volume is required the "B" voltage may be increased to 135.



Battery Equipment, Models 60A and 61A:—Only 90 volts of "B" battery can be used with these models and no "C" batteries are required as automatic bias is provided by the potential divider R1, R2 and R3. Performance ratings are the same as Models 60-61 using 90 volts "B."

