

The models A-504 and A-505 are superheterodyns receivers with full automatic volume control. A Loop-tenna is incorporated which makes the use of an antenna unnecessery, in most localities, for broadcast reception. These receivers will function from 105-125 volts, 40-60 cycles A.C. or D.C. power supply. A renge of 535-1650 kilocycles and 4.75-17.2 megecycles, [17½-63H) is covered by these receivers.

The knob on the extreme right is the wave band switch control. When the knob is in the counterclockwise position, standard broadcest stations may be tuned in. To receive short wave stations, turn the knob to clockwise position. (Right)

SHORT WAVE TUNING:

On short waves the receiver is very selective and etations may be tuned in and out by a very emall movement of the dial. Therefors greater care must be exercised when tuning ehort wave stations than would ordinarily be used for broadcast tuning. In many instences, there may be several short wave stations within a single division of the dial. A listing of short wave stations would be a great help when desiring to tune in any particular statione.

To calibrate receiver connect the output of signel generator in seriss with e 200 MMFD fixed condenser to the flexible antenna leed attached to the loop antenna. Connect the low side of signal generator through a 1/10 mfd. condepeer to receiver chassis. The wave band switch should be in the broadcast position. Adjust signal generator to 455 Kilocycles and adjust both I.F. transformers for maximum signal. Open the receiver variable condenser for minimum capecity. Turn the band switch to short wave position. Set signal generator at 17.2 Megacycles. Psak oscillator section of receiver condenser for maximum signal. Next set signal generator at 16 Megacycles. Tune in this signal. Adjust R.F. section of receiver varieble condenser for maximum signel strength. The low frequency end of the dial is automatically adjusted by a fixed padder condenser. Next turn band ewitch to broadcast position. Rotate drive shaft until variable condenser is in minimum capacity position. Adjust signal generator to 1650 Kilocycles. Adjust the broadcast oscillator trimmsr screw (C-1) until maximum signal from generator is heard. To adjust the low frequency, set the signal generator and receiver to 600 Kilocycles. Peak the broadcast padder (C-2) for maximum output. The variable condenser should be rocked during the operation. Keep the signal generator output as low es possible when making all of these measurements. It is extremely necessary in making the short wave adjustments, that the fundamental oscillator signal be tuned in and not the image frequency, which will fall below the fundamental.