



The models A-504 and A-505 are superheterodyne receivers with full automatic volume control. A Loop-tenna is incorporated which makes the use of an antenna unnecessary, 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 range of 535-1650 kilocycles and 4.75-17.2 megacycles, (17½-63M) 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 broadcast 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 stations may be tuned in and out by a very small movement of the dial. Therefore greater care must be exercised when tuning short wave stations than would ordinarily be used for broadcast tuning. In many instances, 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 stations.

To calibrate receiver connect the output of signal generator in series with a 200 MMFD fixed condenser to the flexible antenna lead attached to the loop antenna. Connect the low side of signal generator through a 1/10 mfd. condenser 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 capacity. Turn the band switch to short wave position. Set signal generator at 17.2 Megacycles. Peak oscillator section of receiver variable condenser for maximum signal. Next set signal generator at 16 Megacycles. Tune in this signal. Adjust R.F. section of receiver variable condenser for maximum signal strength. The low frequency end of the dial is automatically adjusted by a fixed padder condenser. Next turn band switch to broadcast position. Rotate drive shaft until variable condenser is in minimum capacity position. Adjust signal generator to 1650 Kilocycles. Adjust the broadcast oscillator trimmer 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 as 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.