



Four No. 235 tubes are used as R. F. Amplifier, Mixer, I. F. Amplifier, and First Audio Amplifier. Two No. 227 tubes are used as Oscillator and Demodulator-AVC. Two No. 245 tubes are used in the push-pull output stage. A No. 280 Rectifier is used in the power supply.

A Bi-resonator is used to couple the antenna to the R. F. amplifier to prevent any cross modulation. The R. F. amplifier is coupled to the mixer by an ordinary tuned R. F. transformer. This gives three tuning circuits (four gang tuning capacitor) for R. F. selectivity ahead of the mixer, thus the image response ratio is exceedingly high. The oscillator is coupled to the cathode circuit of the mixer tube in the regular manner. The I. F. output of the mixer tube is fed into a Tri-resonator (three tuned circuit transformer) and thence to the I. F. amplifier tube. This tube is coupled to the duo-diode demodulator-AVC tube by a choke-tuned circuit arrangement. The audio output of the duo-diode is fed through a radio frequency filter to the resistor unit of the Manual. Volume Control which acts as a coupling resistor to the audio amplifier. The A. V. C. voltages from the other diode circuit are led back to the control grids of the first two tubes. A No. 235 screen grid tube is used in the first audio stage to obtain high amplification without distortion.

PILOT
2.5 V.