AVC SYSTEM

Automatic Volume Control minimizes fading and signal strength variations by controlling the gain of the RF stage V1, 455 Kcs IF stage V4, 2nd Converter Stage V5, and the first 60 Kcs IF stage V6. As a result, a comfortable and constant audio level is maintained. The fast attack (charge) and adjustable decay (SLOW–MEDIUM–FAST) can be used for the three types of signals received. The AVC voltage for the RF amplifier V1, is provided with a delay voltage. This prevents the AVC from operating on the RF Amplifier on extremely weak signals, thus maintaining maximum sensitivity and signal to noise ratio.

"S" METER (Carrier Level)

The "S" or tuning meter is provided to assist in tuning and to give an indication of relative signal strength. The "S" meter is connected in the well known highly stable balanced bridge meter circuit and utilizes the current amplification of one half section of V13 (12 AU7). The input to the "S" meter circuit is connected to the separate AVC diode section of V8 (6BV8) and gives an indication of signal strength on all positions of AVC. However, the "S" meter calibration is valid only with the RF Gain control at maximum.

The meter which is calibrated to 40 db over S9, is factory adjusted so that a signal input of approxi-