screen grid supply. A 6X50T tube, operating as a half-wave rectifier, supplies all bias voltages to the power amplifier and buffer stages.

1-10. The microphone amplifier tube consists of a 6SJ7 tube which is capacity coupled to the following speech amplifier stage. Two 6C5 tubes are utilized as speech amplifiers, these being capacity coupled into a 6L6G driver stage. "Couplates" are used for coupling the aforementioned audio stages. They have a restricted audio trange and allow full use of usable audio power, also, they discriminate against power wasting high and low audio frequencies. The 6L6G driver stage is transformer couppled to the modulator stage. All speech and driver stages are throughly decoupled, and all DC voltages applied to them are throughly filtered. Two 81A tubes, with zero bias, operate as push-pull, class B modulators. Modulator plate current is indicated at all times, by a meter in the plate circuit. High voltage for the modulator is supplied

by a pair of 816 rectifier tubes in a full wave rectification circuit. A 5730T tube, in a full wave rectification circuit, supplies plate voltage for the speech and driver stages.

1-11. The high voltage supply for the R.F. uses two 866A tubes in a full wave rectification circuit. The filter section utilizes choke input. The R.F. driver power supply uses a 504G rectifier tube in a full wave rectification circuit, with single section choke input filter. Reduced screen voltage on the final amplifier tube is obtained by placing the function switch in tune position. This will prevent the final amplifier tube from drawing excessive plate current during tune-up and testing. A tenuinal strip on the rear of the main power supply chassis provides 115 vac with the TRANSMIT switch is in CN position. This is to operate external relays used to silence the receiver, etc. The AC imput circuit is fused with a 20 amp. fuse to protect the equipment in the event of component failure.