SSB OPERATION

The tuning procedure for SSB operation is the same as previously described. The idling current will be 60 ma. whenever the mike switch is depressed, and the BYPASS TUNE-CW-FM SSB function switch is in the SSB position. This allows the amplifier to operate linear. During voice modulation, the plate current should average about 125 ma. on voice peaks. Actually, the plate current will be approximately 180 to 200 ma., but due to meter damping, will indicate an average of about 125 ma.

CW OPERATION

The tuning procedure for CW operation is the same as previously described. Rotating the BYPASS TUNE-CW-FM SSB function switch to the TUNE-CW-FM position biases the 5894B tube to cutoff for Class C operation. Plate current during steady tone key down operation should be approximately 180 to 200 ma.

WARNING

DANGEROUS VOLTAGES EXIST IN THE P.A. ENCLOSURE, AND ALSO UNDER THE CHASSIS ON THE DIODE AND CAPACITOR MOUNTING BOARDS. BEFORE WORKING ON AMPLIFIER, BE SURE TO WAIT 5 MINUTES, OR GROUND THE 800 VOLTS DC LINE UNDER THE CHASSIS AT THE CAPACITOR BOARD, AFTER REMOVING AC OR DC INPUT VOLTAGES.

MAINTENANCE

There will be little maintenance required in the VHF-150 amplifier. The 5894B tube will provide thousands of service hours when operated according to instructions. Deterioration of a tube will generally be indicated by a change in idling current or inability to draw normal plate current, or both. However, except for occasional field problems which may occur with any electronic device, the tube may be expected to operate month after month and year after year with no problems.

Other components are also operating conservatively, and well within nominal ratings. The electrolytic filter capacitors in the power supply are computer grade, meaning that they have a much higher degree of purity and quality control than conventional types. Life expectancy of these filters is approximately 10 years. The silicon diodes used in the power supply are hermetically sealed and are not likely to even fail or wear out.