Subject: Suggest modifications of receivers, Serial No. 1300 and over having low-loss mechanical filters.

Procedure: The following changes in the 75A-3 will result in a 2 to 1 improvement in the blocking point of the receiver, and similar improvements in cross modulation characteristics of the receiver.

1. Change V-1 from 6CB6 to 6DC6.

2. Remove R-66 (120 ohms) and C-106 (cathode bypass), tie pins 2 and 7 of RF amplifier to ground.

3. Remove R-65 (1.5 megohm).

4. Change R-7 from 68 ohms, 1/2 watt to 180 ohms, 1/2 watt.

5. Change R-81 from 4.7K, 1/2 watt to 10K 1/2 watt.

6. Change R-67 to 150 ohms, 1/2 watt (meter shunt).

7. Remove AVC from pin 3 of mechanical filter box assembly. Connect pin 3 filter box to junction of R57, R58 (RF gain control and minimum bias resistor).

The above changes apply to sets using the low-loss mechanical filter. Similar revisions will also be made to receivers employing high-loss filters.

R. W. Bellew/C. M. Lowder