

## Part IV. Adjusting Condensers; "Neutrodyne Plus" Models

### 1. Padding Condensers.

The Philco Model 048 Tester will be very satisfactory for adjusting the padding condensers on the "Neutrodyne Plus" models.

Connect the antenna and ground leads from the signal generator to the corresponding posts of the receiver. Set the signal generator at about 700 K.C. and turn on the receiver and generator. Turn volume of set full "on."

Adjust the attenuator control on the signal generator so that the reading on the output meter is low.

Adjust each of the padding condensers, by means of the special fibre wrench, until maximum reading on the output meter is obtained in each case.

### 2. Neutralizing Condensers.

The "Neutrodyne Plus" models contain, in addition to the padding condensers, several other small condensers known as neutralizing condensers. These also must be adjusted in order for the receiver to function to a maximum.

Use the same connections for the signal generator as above described.

A "dummy" tube, type 226, will be required. This is obtained by cutting off one filament prong of a tube of this type. Insert this tube in the third R.F. socket, and then adjust the third R.F., neutralizing condenser so that minimum reading is obtained on the output meter.

Repeat this procedure with the second and first R.F. stages, placing the dummy tube in the corresponding socket each time.

### 3. Location of Adjusting Condensers — "Neutrodyne Plus" Models.

Figure No. 38 illustrates the bottom of chassis of Model 511 "Neutrodyne Plus" receiver. Nos. 1, 2, and 3 are padding condensers, and 4, 5 and 6 are neutralizing condensers.

In Models 86 and 87, "Neutrodyne Plus" Sets, the adjusting condensers are located on top of the chassis, the padding condensers being in front of the main condenser gang, and the neutralizing condensers in the back.

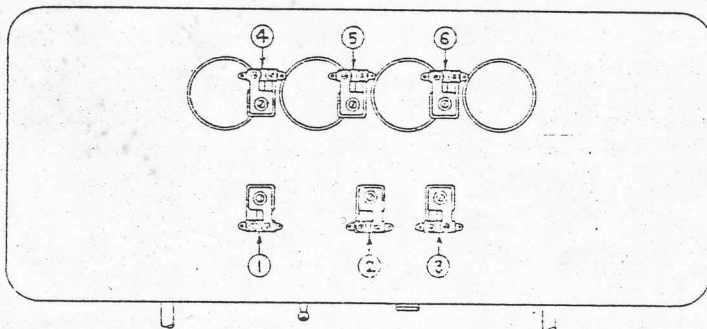


Fig. 38. Model 511