



## Sparton Model 848 Battery Operated Receiver

The model 848 is a 4 tube battery type superheterodyne suitable for use with "B" batteries or the Sparton Bluebox. The circuit incorporates a two gang condenser, an I.F. rejector, two double tuned I.F. transformers and automatic volume control. The speaker used is of the new high flux density type. This type has characteristics equal to those of a high quality electro-dynamic.

### SPEAKER—

In the event that the cone head of the speaker becomes damaged it can be changed by removing a clamping ring. **CAUTION**—When working on speakers, lay a sheet of clean paper on the work bench and do all the work on this. Your work bench, no matter how clean it appears, usually is covered with iron filings, etc. These have a habit of getting into speakers, causing rattles, buzzes, shorted voice coils, etc.

### ALIGNMENT DATA—

For more complete information see bulletins 1 and 2H. When adjusting this model it is essential that a service oscillator be used. To get the required gain from the set it is necessary that all adjustments be made carefully.

#### 1. I.F. STAGES—

Set service oscillator at 345 K.C., attach the output lead to the grid cap of the 1C6 converter tube, connect output meter to speaker terminals, adjust the four trimmers marked C7 for maximum output.

#### 2. I.F. REJECTOR—

With oscillator still set at 345 K.C., attach the output lead to the yellow antenna wire and with oscillator turned on fairly strong adjust C5 for **minimum** output.

**NOTE**—Make sure that the set is not tuned to a harmonic of the I. F. such as 690 K. C. or 1035, etc.

#### 3. OSCILLATOR TRIMMER—

Set service oscillator at 1500 K.C. and with it still connected to the aerial of the set adjust trimmer C4 until, with signal tuned in, the dial points to 1500.

#### 4. OSCILLATOR PADDER—

Set service oscillator at 600 K.C. Turn set dial to that figure and adjust C6 until signal is tuned in. Readjust at 1500 as in section 3 (above).

#### 5. R.F. TRIMMER—

Set service oscillator at 1500 K.C. and with set tuned to 1500 K.C., adjust trimmer C3 for maximum output.

