VOLTAGE DATA FOR MODELS 60 and 60-C (1st and 2nd Types)

line voltage Tube Fi	110. Iament	120 volt line Plate	is 10 percent Grid	higher Scree	
R-F(1st) R-F (2nd-3rd) Det.	2.2 2.2 2.2	160 160 101	7.3 3.7	119 83	119
A-F (1st) A-F (2nd) Rect.	2.2 2.2 4.5	69 230	1.8# 44.		

* Measured, not actual operating voltage.

VOLTAGE DATA FOR MODEL 60 and 60-C (3rd Type)

line voltaç Tube	ge IIO. Volume Filament	control Plate	at minimum. Grid	Screen
R-F Det.	2.3 2.3	170 119	16.5#	142
A-F (Ist)	2.3	73	1.9**	
A-B (2nd)	2.3	224	36. ***	

local distance switch at distance

** Measured, not actual operating voltage.

If 2nd A-F bias resistor #1 is open, bias will be about 85 v.

Checking Sensitivity of Set

When checking the sensitivity of the set, it is necessary in the set are adjusted to the same frequency as the oscillator to use an oscillator, and a meter to indicate maximum out signal. put volume.

A local oscillator is necessary to ensure constancy of sufficiently constant for this work.

An output meter is necessary to ensure a reliable indication of output volume; the ear is not reliable enough for the original factory synchronism.

Each of the four R. F. oscillators should have an adjust-

The oscillator feeds a weak signal into the receiver. The signal is amplified in the receiver and produces a reading on a meter which is connected to the output of the set. This 2. meter indicates the strength of output volume. The reading on the output meter is greatest when all the tuned circuits

Oscillator.

The oscillator must provide modulated R. F. signals at signal strength; signals from broadcast stations are not four different frequencies in the broadcast range. These four frequencies should correspond to dial settings of 5, 45, 65 and 95 on the dial of a 3rd type Model 60-C which has

able pick-up so that the strength of each oscillator may be

controlled independently of the other three.

Output Measuring Circuit.

The output measuring circuit is shown and described

Adjusting Trimmer Condensers

- 1. Connect the common pick-up lead from the four R. F. oscillators to one end of a No. 8112 condenser. Connect the other end of this condenser to the Long-Antenna post. Connect the oscillator container to the Ground 5. post.
- 2. Put plug "A" of the output measuring circuit in the speaker-plug socket on the set. Plug an F-4 type speaker in socket "B." Throw switch "D" to the right.
- 3. Put all tubes in the set; power switch on; volume control at maximum; local-distance switch at distance.
- Break away the sealing wax on the trimmer-condenser

- amount of pick-up from the 1st oscillator to secure a reading of about 20 on the output meter.
- With a screw-driver, turn the pressure screw of the 4th trimmer condenser one way or the other, as necessary, to the point where the reading on the output meter is greatest. Repeat this process on the 3rd trimmer, then on the 2nd, and finally on the 1st. Reduce the pick-up from the 1st oscillator if necessary in order to keep the needle of the galvanometer near the centre of its scale.

This adjustment of the trimmer-condenser screws is Tune set exactly to 5 on dial. Reduce or increase the termed the CORRECT POSITION.