H-2

## EQUIPMENT REQUIRED FOR SERVICING TYPE H CHASSIS

In order to make the correct adjustments of trimmer the following equipment:

oscillator. In turn, the set must be checked frequently bottom plate of the set should be removed. against "standard-frequency" broadcast stations.

The oscillator frequencies should be checked at least once a day, and more often if necessary.

must not affect the frequency of its oscillator, nor order to make the I. F. trimmer condensers accessible. should it affect the volume of the other oscillators.

that may be cut in to provide an extra-strong 1500 K. C. 17295 shield to cover No. 4 R. F. T., in order to make signal, or cut out to provide a normal-strength 1500 the double-spot trimmer accessible. K. C. signal. The extra-strong 1500 K. C. signal is used in adjusting the double-spot trimmer.

2. A 130-kilocycle oscillator. This should be tuned to 130 K.C. by adjusting its trimmers to give maximum half-inch length of solid wire soldered to each end. output when this oscillator is coupled to the I.F. am. This is used as described on Page 275. flifier in a Type H chassis that has the original factory synchronism. The frequency of the 130-K.C. oscillator be made from a fibre rod about 10" long and 1/4" in

The 130-K. C. oscillator may be coupled to the Type condensers in Type H chassis, it is necessary to have H chassis in either one of two different methods, as follows: (a) The oscillator may be completely shielded, 1. A four-wave oscillator providing modulated sig. with a shielded lead connecting an adjustable pick-up nals at 1,500, 1,000, 800 and 600 kilocycles. The oscil- in the oscillator to the control-grid cap of the 1stlator signals must come in at exactly these settings on a detector. (b) The oscillator may be mounted under Type H chassis that has been checked on "standard the test bench in such a position that it will be close frequency" broadcast stations to make certain that the to the 1st detector plate-circuit choke. A 2-inch hole dial calibration is accurate. In other words, the set is should be drilled at this point in the metal plate that used as a wavemeter to check the frequency of the covers the test bench. In this case, of course, the

> 3 An output measuring circuit such as that shown on page 166

4. Two No. 18261 coil shields with the tops cut off. Each oscillator in the four-wave oscillator must have These are used in place of the regular No. 18261 shields an adjustable pick-up. Adjustment of any one pick-up to cover the I. F. transformers in Type H-2 Chassis, in

5. One No. 17295 coil shield with a half-inch hole The 1500 K. C. oscillator must have an extra pick-up cut in the top. This is used in place of the regular No.

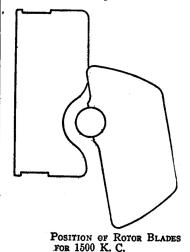
These specially cut shields are NOT supplied from the factory.

6. One No. 15592 (black) tubular resistor with a

7. A trimmer-condenser screw-driver. This should diameter

## INITIAL ADJUSTMENT OF ROTORS AND POINTER TO 1500 KILOCYCLES

(1) Loosen the gear set-screws.



(3). With the rotor in this position, adjust the control arm to the 1500 K. C. position and tighten the gear set-screws.

(2) Move the rotor plates to the position shown

(4) Note how far down on the 1500 K.C. mark the pointer comes, then turn the condenser knob to the 550 K.C. mark. The pointer should come down on this mark approximately the same as on the 1500 K. C. mark. If it does not, it is an indication that the front panel is not centered.

When the variable condenser unit has been replaced or adjusted in

Center the pointer on the control arm and tighten the pointer screws.

any way, it is necessary to check the alignment as follows:-

(5) If the front panel is not centered, loosen the screw at each end of the bottom of the front panel and shift the panel as necessary. Tighten the panel screws and then reset the control arm