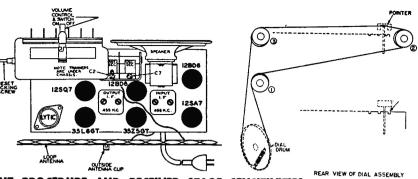
## WARDS Airline RADIO

84BR-1517A, 1518A



## ALIGNMENT PROCEDURE AND RECEIVER STAGE SENSITIVITIES

The signal source must be en accurately calibrated signal generator cepable of supplying R. F. signals modulated 30% with a 400-cycle audio signal. A 400-cycle source is necessary for the audio meesurement.

The table below lists the sensitivity at various points. All measurements are based on en output of 50-milliwatts. This may be measured by disconnecting the

speaker voice coil and substituting a 3.2-ohm, 5-watt resistor across the secondary winding of the output transformer. A reading of .4 volts AC across this resistor will be equivalent to a 50-milliwatt output with the speaker connected. Variations of plus or minus 25% are usually permissable. Volume control et maximum for ell adjustments.

| SIGNAL GENERATOR |                       |                          |                      |                  |  | INPUT FOR              |
|------------------|-----------------------|--------------------------|----------------------|------------------|--|------------------------|
| Frequency        | Coupling<br>Capacitor | Cennection to<br>Radie   | Ground<br>Cennection | TUNER SETTING    | ADJUST FOR MAXIMUM OUTPUT              | 50-MILLIWATT<br>OUTPUT |
| 455 kc.          | .I mf.                | Pin No. 8 of<br>12SA7    | 12SQ7<br>Pin 3       | Rotor full open  | Trimmers on output and input I.F. cans | 100 microvolts         |
| 1650 kc.         | .I mf.                | Pin No. 8 of<br>12SA7    | 12SQ7<br>Pin 3       | Rotor full open  | Oscillator trimmer C7 (on bottom)      |                        |
| i400 kc.         | none                  | See note A               | лопе                 | Set dial at 1400 | Antenna trimmer C2<br>(on bottom)      |                        |
| 1400 kc.         | .I mf.                | External<br>antenna clip | 12SQ7<br>Pin 3       | 1400 kc.         |  | 13 microvolts          |
| 400 cycles       | .I mf.                | 12SQ7, Pin 2             | 12SQ7<br>Pin 3       |                  |  | .05 volts              |

Note A: Lay output lead of generator in back of loop actenna.

Turn up generator output. Loop antenna will pick up energy.

NOTE: On some sets slug tuned 1.-F.'s are used instead of trimmer tuned 1.-F.'s. 108-140Q and 108-145H are trimmer tuned.

B-13A-12023-1 and B-13B-12022-1 are slug tuned. The slug tuned

i.-F.'s are tuned from the top and bottom (secondary on top, primary on bottom).

When trimmer tuned I.F.'s are used, R5 is 270 ohms.

