

- Set the test oscillator to exactly 456 k.c. Connect the output leads of oscillator from the 6-A-8 control grid to ground and set the range switch (right-hand knob) to the broadcast position (clockwise). Carefully adjust the I. F. transformer trimmers Nos. 1, 2, 3, and 4 for maximum output meter deflection. Repeat the four adjustments since the adjustment of each trimmer has some effect on the others.

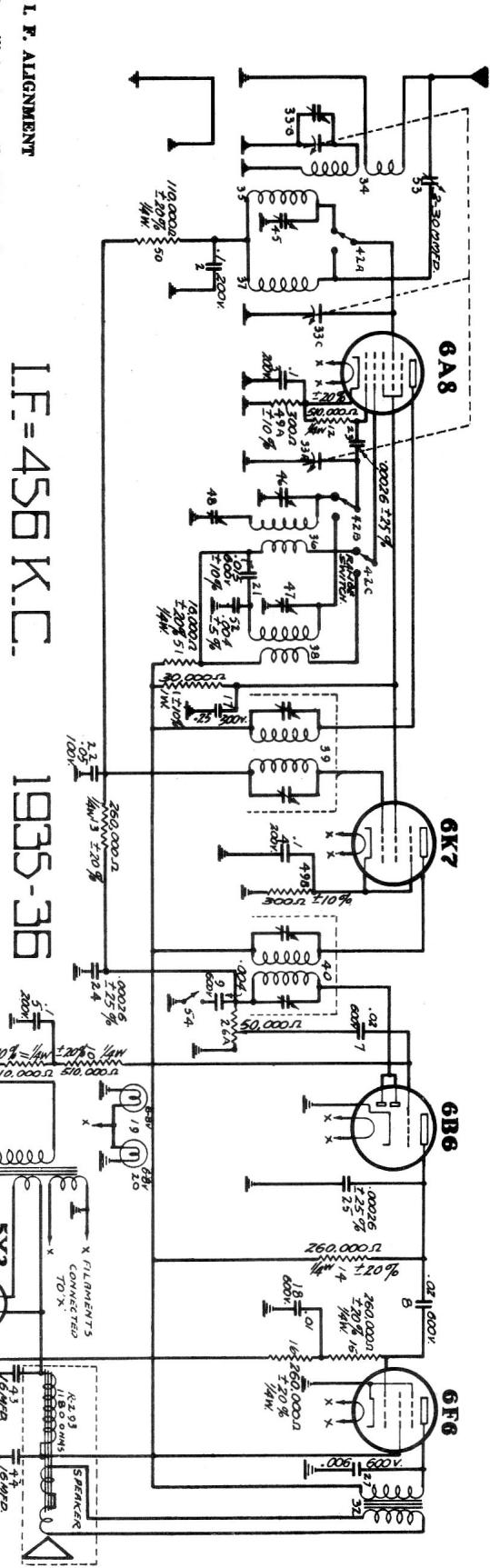
#### BROADCAST BAND ALIGNMENT

- Check the position of the dial on the condenser shaft by pushing the rotor plates of the gang condenser to full mesh. The dial should then read 580 k.c. Please note that the plates should be pushed with the fingers and not turned by means of the dial for this check.
- Turn the range switch (right-hand knob) to the maximum clockwise position, which is the broadcast setting.
- Whenever possible, use a broadcast station signal between 1800 and 1420 k.c. to calibrate the receiver dial. If no such station can be heard, you can use a 1400 k.c. signal from your oscillator, provided that it is properly calibrated. To properly calibrate the set, turn its dial to the exact frequency setting of the signal (either a station or the oscillator) then carefully adjust trimmer No. 5 (broadcast oscillator shunt trimmer) until the signal is tuned in with maximum volume at its correct frequency setting.
- Connect a 400 or 500 ohm, 1 watt carbon resistor in series with the test oscillator output and the receiver antenna lead. This resistor must remain connected for all broadcast and short-wave adjustments in order to secure proper alignment of the antenna stage. Ground the receiver chassis and connect the oscillator ground lead to the chassis.
- Set the test oscillator to approximately 1400

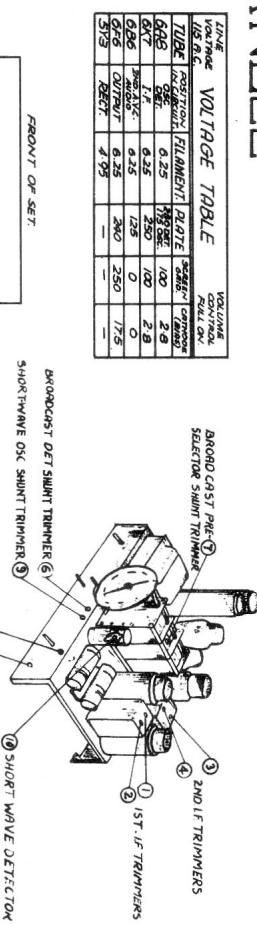
- k.c. and carefully tune the receiver to the signal. Adjust trimmer No. 6 (broadcast detector shunt trimmer) and trimmer No. 7 (broadcast pre-selector shunt trimmer) for maximum meter reading. Retune the receiver and check the adjustments. Do not touch trimmer No. 5 since this will change the calibration.
- Set the test oscillator to approximately 600 k.c. and tune the receiver to the signal. Adjust trimmer No. 8 (broadcast oscillator padding trimmer) to get maximum output meter deflection. Retune the receiver dial to a peak and readjust the trimmer. Continue this procedure of adjusting the trimmer and retuning the set until the output meter reading cannot be increased. **This procedure must be followed or the receiver will not be properly aligned.**
- With a 1400 k.c. test oscillator signal, check alignment of trimmers No. 6 and 7.

#### SHORT-WAVE BAND ALIGNMENT

- Turn the receiver range switch to the short-wave band position (counter-clockwise).
- Set the test oscillator to give a 20 meter (15,000 k.c.) signal. If your oscillator cannot reach this frequency, use the second harmonic of 7,500 k.c., the third harmonic of 5,000 k.c., or the fourth harmonic of 3,500 k.c., all of which will give a 15,000 k.c. signal (or 20 metres).



**LF = 456 K.C.**  
**MODEL R-186**  
**1935-36**



**COURTESY**  
**STEWART-WARNER-30**  
ALEMITE CORP. LTD.  
PRINTED IN CANADA

**DATA SHEET**