

Model R-405 "The Nimrod"

ALIGNING THE I. F. CIRCUIT:

- (1) Connect an output meter across the voice coil terminals of the speaker.
- (2) Turn the volume control to maximum and leave it at this setting throughout the whole alignment procedure. Ground the antenna lead to the chassis.
- (3) Adjust the test oscillator to exactly 456 kc and connect its output between the 1C7G control grid cap and the chassis. Use an .05 mfd condenser in series with the lead if there is not already one in the oscillator itself.
- (4) Adjust the four I. F. trimmer condensers on top of the cans, beginning with the second stage for maximum output as indicated on the output meter.
- (5) Repeat section four (4) as the adjustment of any one trimmer will have some effect on the remaining ones.

DIAL CALIBRATION:

If the receiver should require calibration, proceed as follows:

- (1) Connect the antenna lead to the output of the test oscillator through a dummy antenna. A 200 to 250 MMFD condenser will serve the purpose.
- (2) Turn the gang condenser to full mesh and check to see that the pointer knob lines up with the horizontal line at 530 kc on the scale. If it does not, re-set the pointer knob.
- (3) Adjust the test oscillator to 1400 kc.
- (4) Turn the knob till the pointer knob indicates 1400 kc on the scale and adjust the trimmers on the gang for maximum output using the weakest input signal that will give a satisfactory reading on the output meter.

DATA SHEET

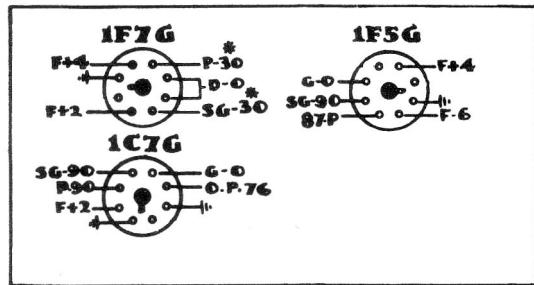
ALL VOLTAGES TAKEN WITH VOLUME CONTROL ON FULL.

I.F. FREQUENCY
456 KC.

*THESE VOLTAGES MEASURED WITH METER HAVING RESISTANCE OF 500,000 OHMS.

1937-38

TUBE VOLTAGES



R. F. ALIGNMENT:

- (1) Set the test oscillator at 1720 kc and apply it to the set as above.
- (2) With the gang condenser set in the minimum capacity position, adjust the trimmer on the front section of the gang for maximum output using the weakest input signal that will give a satisfactory reading on the output meter.
- (3) Adjust the receiver and test oscillator in tune at 1400 kc and align the trimmer on the back section of gang, for maximum output, keeping the input signal from the test oscillator as low as possible as before and do not change adjustment of trimmer on front section of gang.
- (4) Adjust the receiver and test oscillator in tune at 600 kc and align C4 for maximum output, rocking the tuning condenser back and forth slightly while aligning.
- (5) If an appreciable change in C4 was necessary operation 3 should be repeated.

BATTERY DRAIN:

- (1) The normal "A" battery drain is 120 milliamperes on a 6 volt battery.
- (2) The normal "B" battery drain is 7.5 milliamperes on 90 volts of battery.

STEWART-WARNER-47