

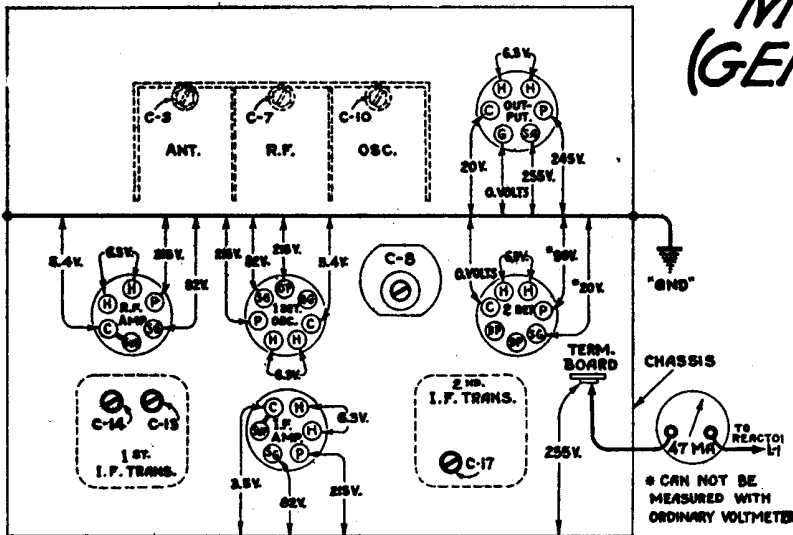
# MODEL M-104 MOTOR CAR RADIO (GENERAL ELECTRIC. D-5)

output and then carefully "trimmed" so that a flat-topped response is obtained. This may be checked by shifting the external oscillator frequency through a range two kilocycles each side of 175 kc. and noting whether or not the receiver output remains substantially constant.

## R. F. DETECTOR AND OSCILLATOR ADJUSTMENTS

Three high-frequency adjusting capacitors are provided for alignment at 1400 kc., and one trimmer is used for the low frequency line-up at 600 kc. The "Full Range Oscillator" should be connected to the antenna-ground input at the outer end of the lead-in shield through a 300-ohm series resistance in the antenna side.

- Tune the external oscillator to a frequency of 1400 kc. and turn the station selector knob until the dial pointer is at the 1400 kc. scale marking.
- Adjust the oscillator trimmer, C-10; the detector trimmer, C-7; and the r-f trimmer, C-3, for maximum (peak) receiver output.
- Set the external oscillator to a frequency of 600 kc. and rotate the station selector until this signal is accurately tuned on the receiver. Adjust the oscillator trimmer C-8, simultaneously rocking the tuning condenser slowly through the signal until the maximum obtainable output results from the two combined operations. This adjustment should be made irrespective of dial calibration.
- Recheck the adjustment of the 1400 kc. oscillator trimmer, as in (b), to correct any reflective errors caused by the procedure of (c).



Trimmer Locations and Radiotron Socket Voltages to Ground  
(Measured at 6.6 volts battery supply—Volume Control Maximum—No Signal)

1935-36

I.F. =  
175  
K.C.

### I. F. ADJUSTMENTS

Three trimmers are provided in the i-f system, two on the first transformer and one on the second transformer.

- Tune the "Full Range Oscillator" to 175 kc. and connect its output to the first detector control grid and chassis ground. Tune the station selector to a point where no signals are received.
- Tune each of the trimmer capacitors, C-17, C-14 and C-13, in order. C-17 should be set for maximum (peak) output. C-14 and C-13 should be roughly adjusted for maximum

DATA SHEET

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COURTESY - R. C. A.

VICTOR-44