

**I-F Adjustments**

- Connect the output of the test oscillator to the control grid cap of the i-f tube (Type-6K7) through a 0.25 mfd. capacitor and connect the ground of the oscillator to the receiver chassis. Adjust the frequency of the oscillator to 260 kc. Tune the receiver to a point where no interference is received from the heterodyne oscillator or local stations.
- Adjust the two screws (attached to molded cores) of the second i-f transformer, one on top and one on bottom, until maximum output is produced by the indicating device.
- Remove the oscillator from the i-f tube input and connect it between the control grid cap of the first detector tube (Type-6A8) and chassis-ground, using the 0.25 mfd. capacitor as previously. Allow its tuning to remain at 260 kc. Tune the receiver to avoid interference as in (a).
- Adjust the two screws of the first i-f transformer for maximum (peak) receiver output. The indication for this adjustment will be broad due to the "flat-top" characteristic of the i-f system. The two screws should, therefore, be very carefully adjusted so that the indicator remains fixed at maximum as the oscillator is shifted through a range 2 kc. above and below its normal setting of 260 kc. An irregular double-peaked indication is to be avoided.

**R-F Adjustments**

**NOTE:** Before making r-f adjustments, it may be advisable to replace the bottom cover to eliminate vibrator interference.

- Adjust the dial pointer on the remote control head by the following procedure. Rotate tuning knob to its extreme clockwise position irrespective of location of pointer on dial. Now turn the pointer adjusting screw in the center of the back of the control unit until the pointer is at the end calibration mark below the 55 on dial scale.
- Connect the output of the test oscillator to the antenna-ground terminals of the receiver with a 175 mmfd. capacitor in series with the antenna lead.

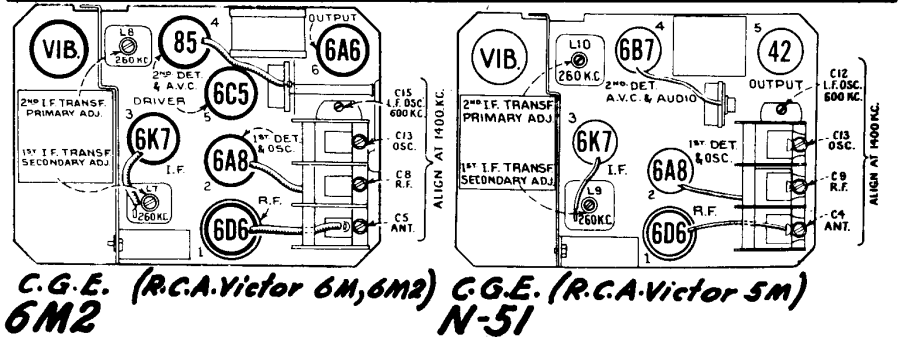
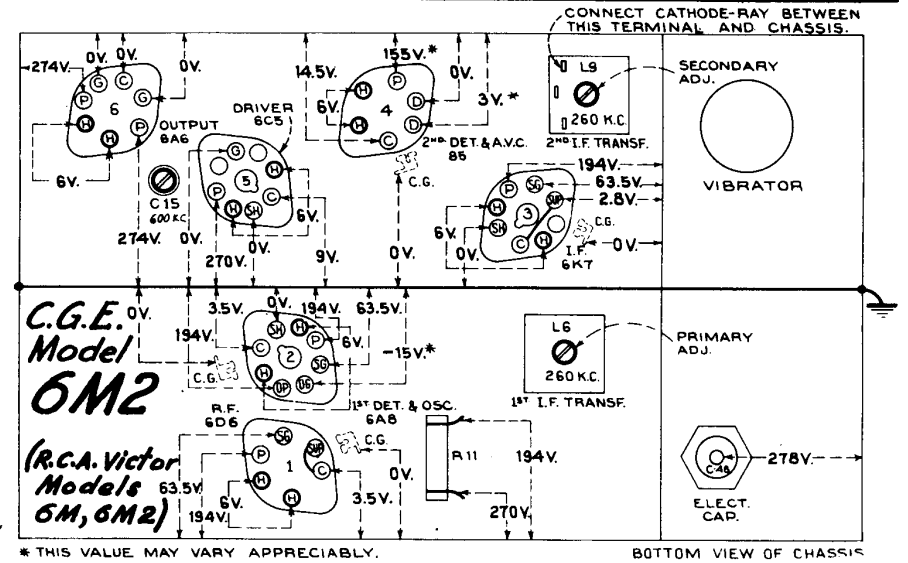
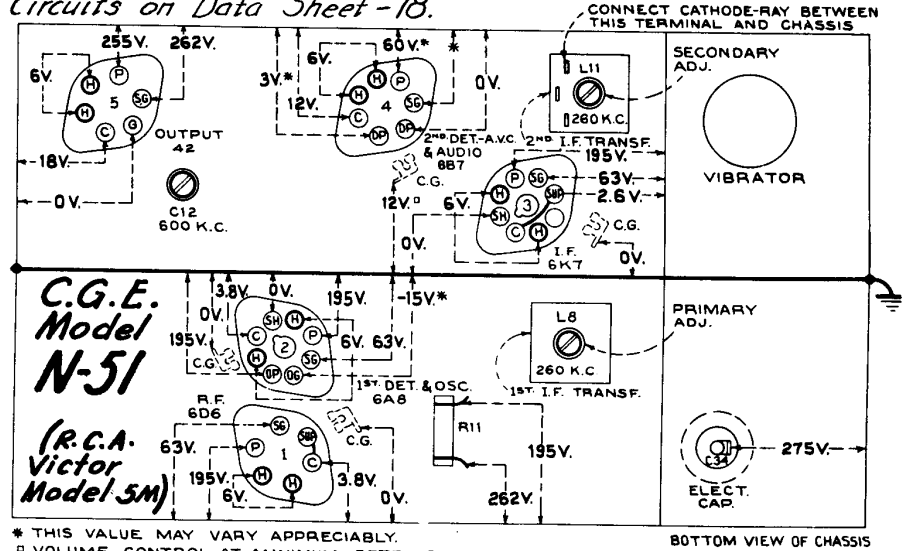
**NOTE:** For r-f alignment of receivers in which the tubular paper condenser C-3 (.01 mfd.) has been replaced by the small molded condenser 500 mmfd. (change easily identified by reference to Figure 2 and bottom of chassis), use a .001 mfd. capacitor instead of the 175 mmfd. capacitor in series with the antenna lead and test oscillator.

There should be a shunt capacitor of 50 or 60 mmfd. from the antenna lead at the receiver to ground. Tune the oscillator to 1,400 kc. Allow the output indicator to remain attached to the receiver output.

- Tune the receiver so that the dial reading is 1,400 kc. Then adjust the oscillator, detector, and antenna coil trimmers, C-13, C-8, and C-5 respectively, tuning each to the point producing maximum indicated receiver output.
- Shift the oscillator frequency to 600 kc. and tune the receiver to pick up this signal, disregarding the dial reading at which it is best received. The oscillator series trimmer, C-15, should then be adjusted, simultaneously rocking the receiver tuning control backward and forward through the signal until maximum (peak) receiver output results from the combined operations. The adjustment of C-13, C-8 and C-5 should be repeated as in (c) to correct for any change in its alignment due to the adjustment of C-15.

\* C-15 ON MODEL N-51  
 □ C-9 "  
 ■ C-4 ON MODEL N-51

**Alignment Data**  
**C.G.E. Models N-51, 6M2 (Auto Receivers)**  
**(R.C.A. Victor Models 5M, 6M, 6M2)**  
 Circuits on Data Sheet - 18.



**DATA SHEET**

**C.G.E.-18a**  
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