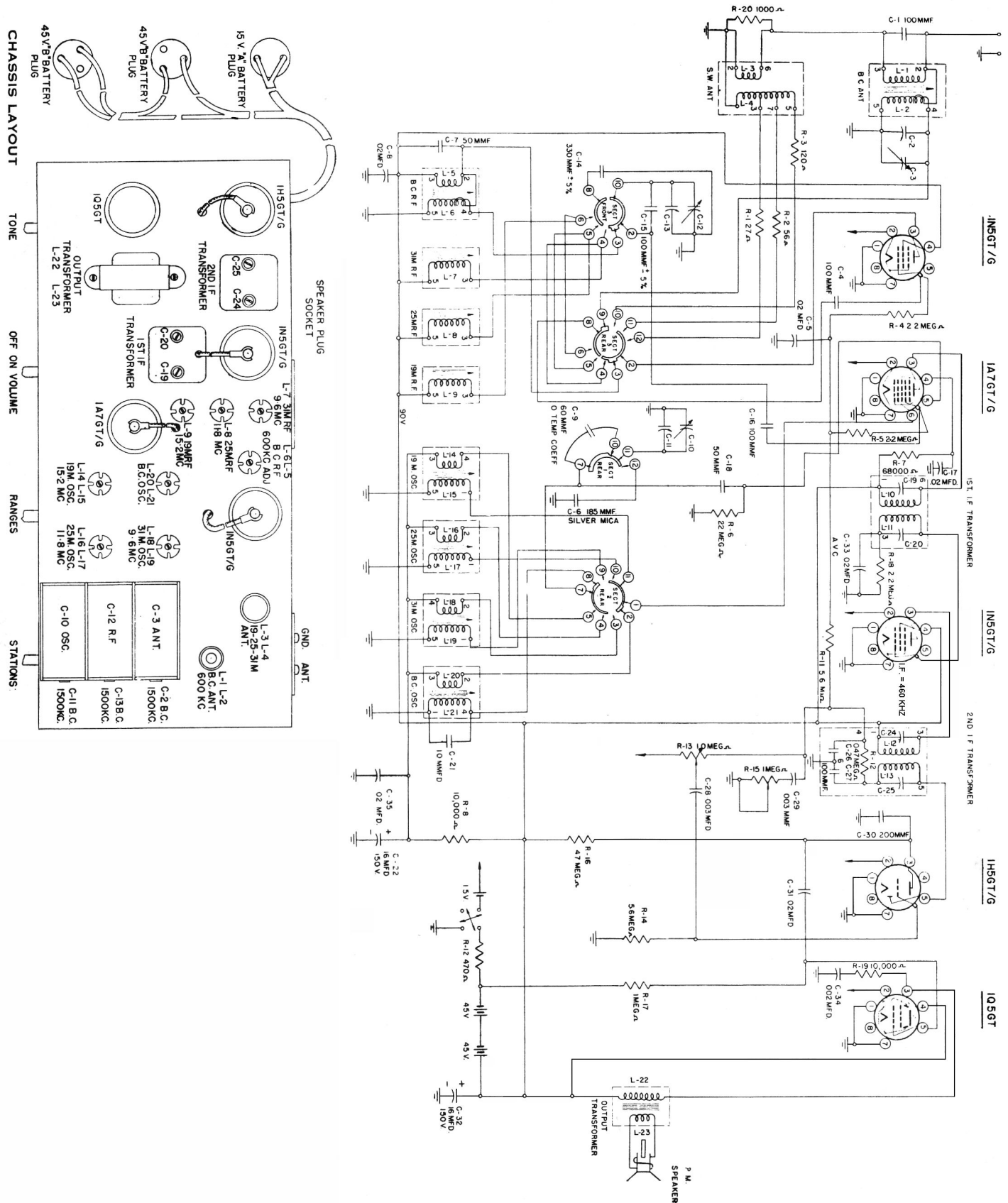


Stromberg-Carlson Model 754 Battery Operated Receiver



Stromberg-Carlson Model 754 Alignment Data, Dial Stringing & Voltage Chart

1. Dial Adjustment

With the plates of the gang condenser fully engaged, set the pointer directly on the calibration point, located at the lower left hand corner of the broadcast scale.

2. Intermediate Frequency Adjustments

2.1 Tune the set to the extreme low-frequency position (variable condenser plates all in).

2.2 Connect the ground terminal of the signal generator to the ground terminal of the receiver.

2.3 Introduce a modulator 460 Kc signal, using a .1 mfd capacitor in series with the lead from the signal generator to the "grid" terminal (cap) of the 1A7GT tube.

2.4 Adjust the I. F. aligning capacitors for maximum output in the following order:

- Secondary of 2nd I. F. Transformer C25
- Primary of 2nd I. F. Transformer C24
- Secondary of 1st I. F. Transformer C20
- Primary of 1st I. F. Transformer C19

2.5 Repeat A. B. C. D. until maximum performance is attained.

3. Radio Frequency Adjustments

Broadcast Range

3.1 Set the range-switch to Broadcast (A)

3.2 Set the signal generator frequency and the receiver tuning dial to 1500 Kc.

3.3 Connect a 200. mmds. capacitor in series with the antenna lead from the signal generator to the "ant." terminal on the set, replacing the .1 mfd. capacitor.

3.4 Adjust the "BC" band oscillator trimmer C11 for maximum signal and correct calibration.

3.5 Adjust the antenna trimmer C2 and the RF trimmer C13 for maximum output and correct tracking. "Rock" the gang to obtain maximum peak.

3.6 Adjust the core of BC Osc. coil L20L21 for correct calibration at 600 Kcs.

3.7 Adjust the cores of R.F. 600 Kc adj. L5L6 and BC ant. 600 Kc L1L2 for maximum sensitivity and correct tracking.

3.8 It will be necessary to repeat 3.4, 3.5, 3.6 and 3.7 until further adjustment makes no improvement in performance.

4. Shortwave Spreadband Ranges

4.1 Set the range-switch to "B" 31 meter band.

4.2 Set the signal generator frequency and the receiver tuning dial to 9,600 mcs.

4.3 Connect a 400 ohm carbon resistor in series with the antenna lead from the signal generator to the "ant." terminal on the set, replacing the 200 mmd. capacitor.

4.4 Adjust L18L19 31M Osc. band-centering screw for maximum signal and correct calibration.

4.5 Adjust L731 M RF core for maximum signal and correct tracking. Rock gang.

4.6 Set the range switch to "C" 25 meter band and the signal generator frequency to 11.8 mcs.

4.7 Adjust L16L17 25M Osc. band-centering screw for maximum signal and correct calibration.

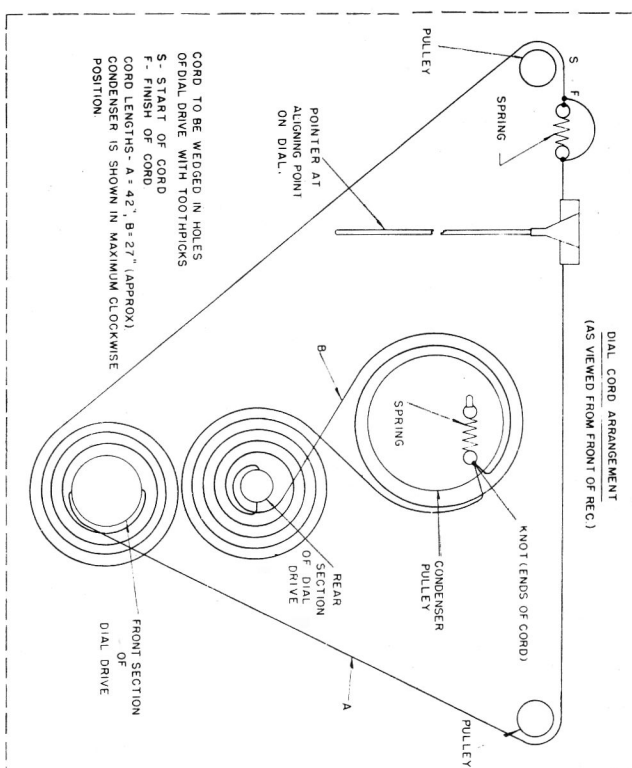
4.8 Adjust L8 25-M RF core for maximum signal and correct tracking. Rock gang.

4.9 Set the range-switch to "D" 19 meter band and signal generator frequency to 15.2 mcs.

4.10 Adjust L14L15 19M Osc. band-centering screw for maximum signal and correct calibration.

4.11 Adjust L9, 19M RF core for maximum signal and correct tracking. Rock gang.

Since the average service oscillator is not, as a rule, calibrated finely enough to be set to the stated band "center-frequencies" it is always advisable to check the spreadband ranges on actual reception of shortwave stations of known frequency.



VOLTAGE TABLE

| Tube | Circuit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|--------------------------|----|-----|----|----|----|------|---|---|
| 1N6GT | R. F. Amplifier | 0 | 1.4 | 85 | 85 | 0 | — | 0 | 0 |
| 1A7GT | Mod.-Osc. | 0 | 1.4 | 85 | 41 | —8 | 70 | 0 | 0 |
| 1N6GT | I. F. Amplifier | 0 | 1.4 | 85 | 85 | — | — | 0 | — |
| 1H6GT | Demod., A.V.C. 1st Audio | 0 | 1.4 | 50 | 85 | 0 | .6 | 0 | 0 |
| 1Q5GT | Output | 75 | 1.4 | 80 | 85 | —5 | —5.3 | 0 | 0 |