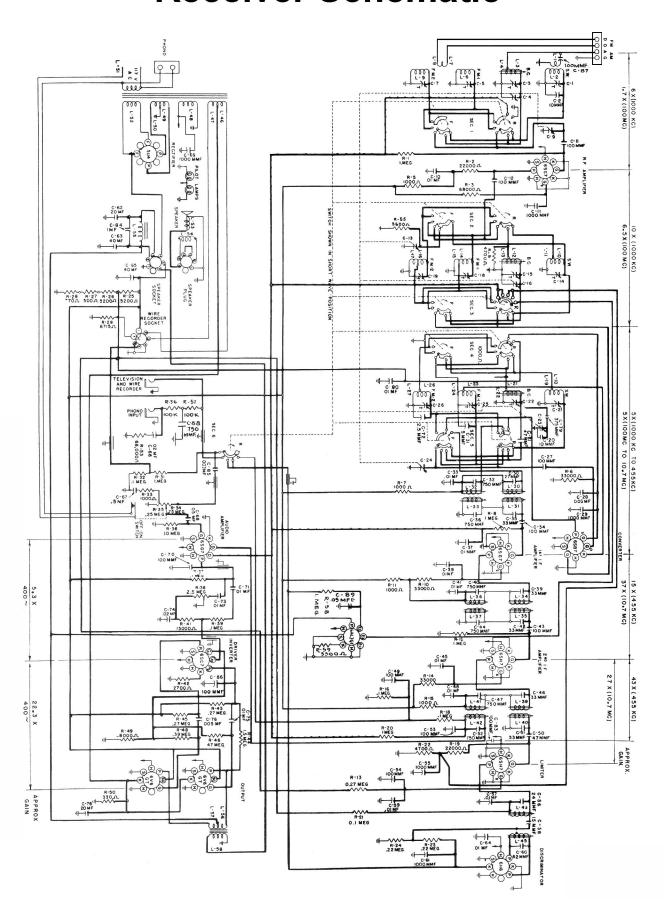
## Stromberg-Carlson Model 7124 AM/FM Receiver Schematic



## Stromberg-Carlson Model 7124 AM/FM **Receiver Alignment Data**

The I.F. Aligners may be found from the underside of the chassis. The adjusters are 6 Iron cores used to tune the inductance of the high frequency coils.

I. Connect the signal generator to the modulator grid, termical number 8 of the 6S8F converter rube, which is connected to the wave band switch, and is identified by a blue dot. Italize this order exactly)

The LF, aligners that are used to adjust the amplitude modulation; IAM1 channel are forward on the top side of the inclusis. They
consist in AM2 channel are forward to the forward of a distribution of a distribution of the International Control of the Int. 2nd 6° 3rd LF transformers (161202, 161200), 161201).

These cores are found inside the plastic tubes portrading from
the top of the LF, transformers and are equipped with small screwthe top of the LF. transformers and are equipped with small screw-Discriminator Alignment (FM) These cores are made of high quality R.F. iron and are fragile; therefore care must be used in odjusting them.

1. Carnect the signal generator to the modulator grid, terminal number 8 of the 6587 converter tube which is connected to the wave band switch, and is identified by a blue dot. Adjust volume control full on.

Adjust tone control to maximum high (counter clockwise).

Adjust rong switch to standard broadcast band, (second position clockwise).

Adjust the tuning selector to approximately 600 K.C.

Adjust I.F. cores for maximum output with a reduced signal Adjust the signal generator to 455 K.C. Use 30% modulation at 400 cycles. Connect the output meter across the voice coil of the speaker (green and black wires from cable). Connect the signal generator to the grid of the second LF. tube, terminal No. 4 of the 6SH7. circuit, identified by a green dot.

Adjust the voltmeter to the lowest negative voltage imum output is secured for minimum input.

Connect the electronic voltmeter to the junction of the 22,000 and the 4,700 ohm resistors in the limiter grid

Adjust the tuning selector to approximately 21 on this Turn the range switch to the 2nd F.M. band (fourth

Adjust the cores for maximum output of the voltmeter. Adjust the signal generator to 10.7 megacycles. No Reduce the input signal and readjust until the max-

orange dot. Adjust the primary for Connect the electronic voltmeter to the center of diode load resistors at the point indicated by with the the

signal generator set at 10.7 megacycles. Switch the electronic voltmeter to the high side of the diode load resistors, identified by a red dot

Swing generator to 75 KC higher and 75 KC lower in freauency and note the plus and minus voltage. If Adjust the secondary for zero output these voltage values are not approximately equal,

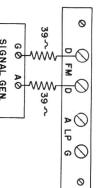
## Dial Pointer Adjustment

Check dial pointer to see that it is aligned through the center of the 2 in the number 201 of FM Band (1) when the variable capacitor plates are completely engaged.

R.F. Adjustment antenna and ground terminals. The built-in loop should remain connected to the The Broadcast band should be adjusted first. 1. Connect the signal generator to the antenna terminal, Amplitude Modulation

FM (1) Band

Adjust the same as the FM (2) band using 100.1 megacycles, setting the dial pointer to 261. Connect the generator to the dipole input using 39 ohm resistors as indicated. Connect Signal Generator ground to chassis



# Adjust the signal generator to 1500 KC.

Aligning Procedure (follow this order exactly)

Intermediate Frequency Adjustments

Amplitude Modulation

- trimmer for
- Adjust the oscillator, R.F. and antenna
- Reduce the input signal and readjust until the maximum output is secured t the trimmers for minimum

- Adjust station selector to 600 KC. Set signal generator to 600 KC. Adjust iron cores in oscillator, R.F. and
- Repeat 1500 KC and 600 KC alignments until

0.

## R.F. Adjustment — Short Wave

## antenna and ground terminals. The built-in loop should remain connected to the

- 1. Connect the signal generator to the ground terminals of the receiver using g a 400 Ω
- Set the dial pointer to 9.5 megacycles. Adjust signal generator to 9.5 megacy
- Adjust range switch to Short megacycles.
  Wave (first position
- this band.) Adjust oscillaton R.F., and antenna trimmer for maximum output. (No further alignment ıs. required

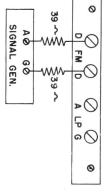
## Align the FM (2) Band first. R.F. Adjustments — Frequency Modulation

Set the dial pointer to 61.

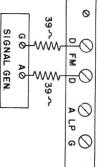
2. Connect the signal generator to FM dipole terminal: antenna.) Connect Signal Generator ground to chassis using 39 ohm resistors as indicated. (Disconnect dipole

ground.
3. Set signal generator to 46.1 megacycles.
4. Adjust range switch to FM (2) (fourth position clock junction of the

5. Connect the electronic voltmeter to the jur 22,000 and 4,700 ohm resistors in the circuit. (Identified by green dot.)
Adjust oscillator R.F. and antenna trimmers for max

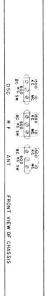


Note reversed Signal Generator connection



## LOCATION CHARTS

TUBES, TRIMMERS AND VOLTAGE



where otherwise indicated, voltages are D. C. and are positive with respect to Measurements are made at the 117 volt line, using electronic voltmeter. Except the reference point which is the chassis

