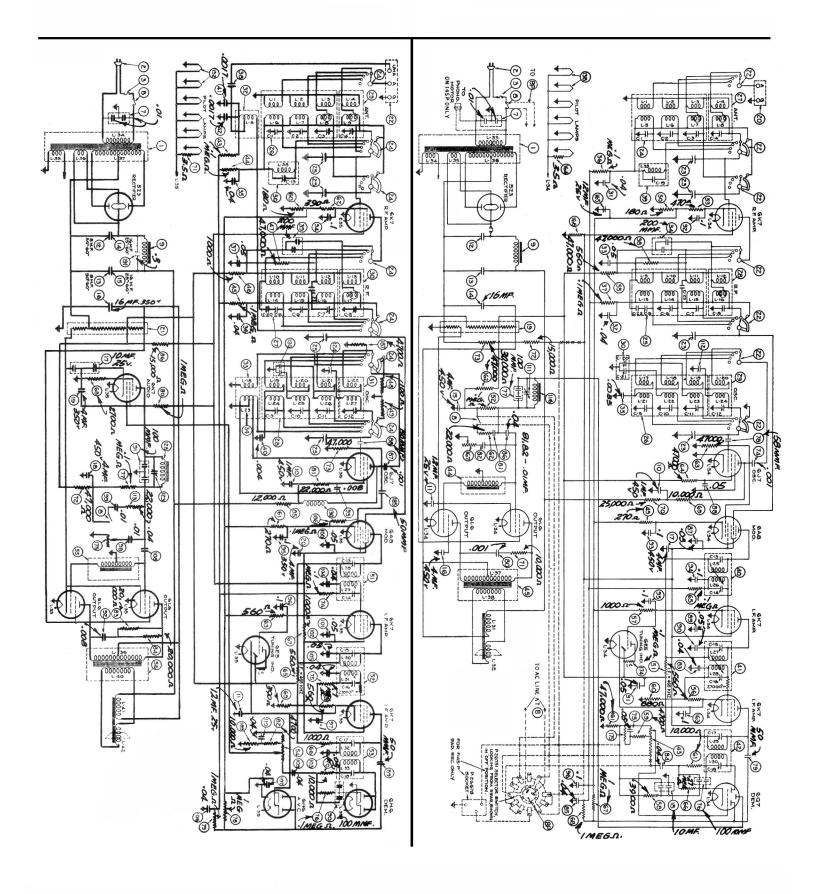
Stromberg-Carlson

Model - 150

Model - 145



Stromberg-Carlson Alignment Data for Models 145 & 150

Intermediate Frequency Amplifier Adjustments

Because of the necessity of obtaining the proper shape of resonance curve of these stages in a high fidelity receiver, it is recommended that unless it is absolutely essential, these I. F. adjustments be untouched. In the factory these adjustments are made using a visual system which allows the operator to see the exact shape of the resonance curve. For this reason it is best to have these adjustments made at the factory. However, in the case where this cannot be done, the following procedure should be followed.

Operate the range switch of the receiver to the "A" range position. Set the tuning dial at its extreme low frequency position, and operate the "Tone-Fidelity" control knob so that the receiver is adjusted for the standard fidelity position as indicated by the fidelity indicator located on the front panel of the receiver. Never attempt to align the L.F. circuits of this receiver with the "Tone-Fidelity" control set at any position other than the standard fidelity. The L.F. circuits may then be checked for alignment by adjusting the aligning capacitors in the exact order as follows:

- Secondary of 3rd I. F. Transformer (Capacitor C-18). Primary of 3rd I. F. Transformer (Capacitor C-17). Primary of 2rd I. F. Transformer (Capacitor C-16). Secondary of 2rd I. F. Transformer (Capacitor C-15). Secondary of 1st I. F. Transformer (Capacitor C-14). Primary of 1st I. F. Transformer (Capacitor C-13).

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Radio Frequency Adjustments

The alignment of the radio frequency circuits for the various ranges in this receiver should fully made in the order and at the frequencies specified. be very

It will be noted that no instructions are given for aligning the receiver at other than two frequencies for any range. Each receiver is given an exacting check for "tracking" at various frequencies in each range before leaving the factory. It is felt by the manufacturers that should any receiver through accident require check on the "tracking", it should be returned to the factory, where this may be easily and accurately done.

Alignment of Long-Wave-Weather Range (Also Referred to as "X" Band) Circuits

- Oscillator's "X" Band Shunt Aligning Capacitor at 350 Kilocycles (Capacitor C-12).

 R. F. Interstage "X" Band Shunt Aligning Capacitor at 350 Kilocycles (Capacitor C-8).

 Antenna "X" Band Shunt Aligning Capacitor at 350 Kilocycles (Capacitor C-4).

 Oscillator "X" Band Series Aligning Capacitor at 150 Kilocycles (Capacitor Item 112). Wh

 No. 4 has been completed repeat operations 1, 2, and 3 again and in the exact order given. When operation

Alignment of Standard Broadcast Range (Also Referred to as "A" Band) Circuits

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Oscillator's "A" Band Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-11), R. F. Interstage "A" Band Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-7), "A" Band, R. F. Bi-resonator Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-19), Antenna "A" Band Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-3), Oscillator "A" Band Series Aligning Capacitor at 1500 Kilocycles (Capacitor C-20). When No. 4 has been completed repeat operations 1, 2, and 3 again and in the exact order given.

Alignment of Amateur, Police, and Aircraft Range (Also Referred to as "B" Band) Circuits

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Oscillator's "B" Band Shunt Aligning Capacitor at 5 Megacycles (Capacitor C-10). R. F. Interstage "B" Band Shunt Aligning Capacitor at 5 Megacycles (Capacitor C-6). Antenna "B" Band Shunt Aligning Capacitor at 5 Megacycles (Capacitor C-2). Whe Oscillator "B" Band Series Aligning Capacitor at 1.8 Megacycles (Capacitor C-21). Whe No. 4 has been completed repeat operations 1, 2, and 3 again and in the exact order given.

Alignment of Short-Wave-Foreign Range (Also Referred to as "C" Band) Circuits

- Oscillator's "C" Band Shunt Aligning Capacitor at 16 Megacycles (Capacitor C-9), R. F. Interstage "C" Band Shunt Aligning Capacitor at 16 Megacycles (Capacitor C-5), Antenna "C" Band Shunt Aligning Capacitor at 16 Megacycles (Capacitor C-1).

Alignment of Ultra Short-Wave Range (Also Referred to as "D" Band) Circuits Model./50 only.

- ment is accomplished by bending the ground loop (s ment) either closer to the coil or farther away fro signal generator set to a frequency of 20 megacycles. The only adjustment which it is necessary to ment is accomplished by bending the ground make for bringing the "D" Band Oscillator's circuit into align-loop (shown in Figure 1 as "D" Band Oscillator Circuit Adjust-way from the coil. This adjustment should be made with the
- The only adjustment which it only adjustment which it is necessary to make for bringing the is accomplished by bending the grid lead loop (shown in) so as to form either a smaller or larger loop. This adjustments Antenna's Circuit into align-Band Antenna Circuit Adjust-also be made with the signal

Socket Layout Model 150.

Socket Layout Model

