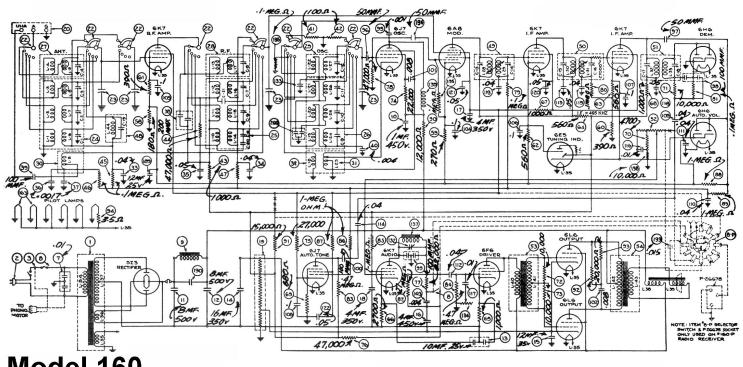
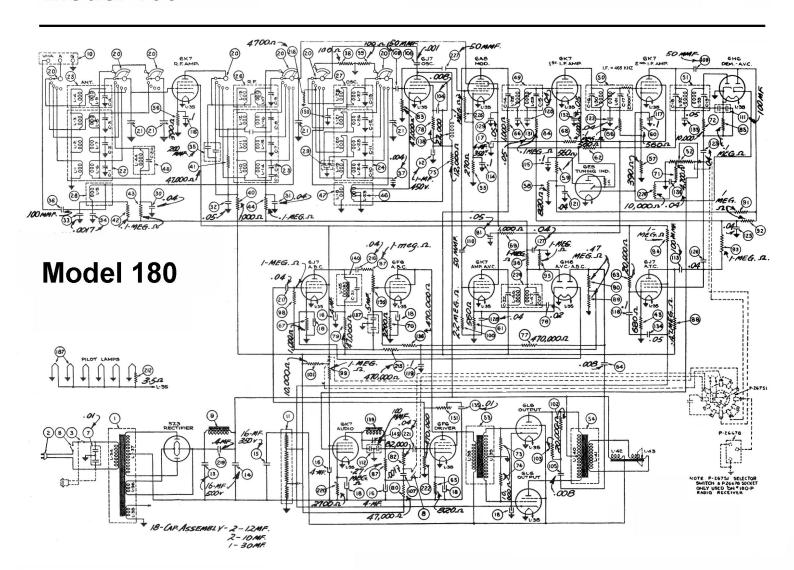
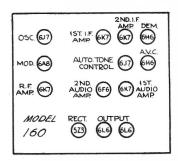
Stromberg-Carlson Models 160 & 180

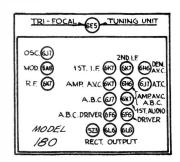


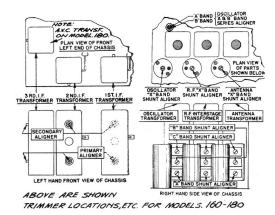




Stromberg-Carlson Models 160 & 180 **Alignment Information**







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 I. F. circuits of this receiver with the "Tone-Fidelity" control set at any position other than the standard fidelity. The I. F. circuits may then be checked for alignment by adjusting the aligning capacitors in the exact order as follows:

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

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)." (C-13 on Model. 180. R. F. Interstage "X" Band Shunt Aligning Capacitor at 350 Kilocycles (Capacitor C-8), C-9 on Model. 180. Antenna "X" Band Shunt Aligning Capacitor at 350 Kilocycles (Capacitor C-4). Oscillator "X" Band Series Aligning Capacitor at 150 Kilocycles (Capacitor Item 133). When operation No. 4 has been completed repeat operations 1, 2, and 3 again and in the exact order given.

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

- Oscillator's "A" Band Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-11). C-12 ON MODEL 180 R. F. Interstage "A" Band Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-7): C-8 ON MODEL 180 Antenna "A" Band Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-3). "A" Band, R. F. Bi-resonator Shunt Aligning Capacitor at 1500 Kilocycles (Capacitor C-19). C-20 ON MODEL 180 Oscillator "A" Band Series Aligning Capacitor at 600 Kilocycles (Capacitor with screw adjustment. Item 2007. When operation No. 5 has been completed repeat operations 1, 2, 3, and 4 again and in the exact order given.

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

- Oscillator's "B" Band Shunt Aligning Capacitor at 5 Megacycles (Capacitor C-10). C-11 ON Model. 180
 R. F. Interstage "B" Band Shunt Aligning Capacitor at 5 Megacycles (Capacitor C-6) C-7 on Model. 180
 Antenna "B" Band Shunt Aligning Capacitor at 5 Megacycles (Capacitor C-2).
 Oscillator "B" Band Series Aligning Capacitor at 1.8 Megacycles (Capacitor with nut adjustment. Item 290)
 When operation 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). C-10 ON MODEL 180 R. F. Interstage "C" Band Shunt Aligning Capacitor at 16 Megacycles (Capacitor C-5).C-6 ON MODEL 180 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

- The only adjustment which it is necessary to make for bringing the "D" Band Oscillator's circuit into alignment is accomplished by bending the ground loop (shown in ment) either closer to the coil or farther away from the coil. This adjustment should be made with the signal generator set to a frequency of 20 megacycles.

 The only adjustment which it is necessary to make for bringing the "D" Band Antenna's Circuit into alignment is accomplished by bending the grid lead loop (shown in "D" Band Antenna Circuit Adjustment) so as to form either a smaller or larger loop. This adjustment should also be made with the signal generator set to a frequency of 20 megacycles.

