### Stromberg-Carlson 322 Battery Radio Service Data

### Intermediate Frequency Adjustments

# The intermediate frequency used in these receivers is 465 kilocycles. In making these circuit adjustments

always align the circuits in the order given in these instructions. Operate the "Range" switch of the receiver to the "A" range position. Set treme low frequency position, and operate the Tone Control knob to the ume Control knob to its maximum clockwise position (maximum volume).

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Now, noting from Figure 1, the aligning adjustments for the first and second I. F. transformers, align the I. F. of the test oscillator should be connected to either the chassis base or the ground binding post terminal. lator-oscillator tube, a modulated signal of 465 kilocycles from the test oscillator, using a 0.1 microfarad capacitor in series with the connection between the output terminal of the test oscillator and the grid of the No. Apply between the chassis base (or ground binding post) of the receiver and the grid of the No. 1676modu-

Do not remove the chassis grid lead connecting to this tube. The ground (or low side) terminal

- Primary of second I. Secondary of second I. F. transformer.
- Primary of first I. F. transformer. Secondary of first I. F. transformer.

### Adjusting the circuits to obtain maximum reading on the output meter, reducing the output of oscillator as required

### Radio Frequency Adjustments

## Alignment of Short Wave Range (Also Referred to as "C" Band)

### placed in series with the test oscillator's output lead for the I. F. alignments, with a 400-ohm carbon type resistor. This lead should then be connected to the antenna binding post located on the rear of the receiver chassis. The ground terminal (or low side) of the test oscillator should be connected to the ground binding post on the realigning the radio frequency circuits for this range, replace the 0.1-microfarad capacitor which was

- 1. Operate the Range Switch on the receiver chassis to the "C" range position, and set the test oscillator's frequency and the receiver's tuning dial to 16 megacycles.
- Adjust the oscillator's "C" band high frequency aligner for maximum output.
- tuning capacitor back and forth through resonance until maximum output is obtained band high frequency aligner for maximum output, at the same time rotate the gang

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

### resistor) in series with the output terminal of the test oscillator as was used for aligning the short-wave range. Operate the Range Switch on the receiver chassis to the "B" range position, and set the test oscillator's frealigning the radio frequency circuits for this range, use the same artificial antenna (400-ohm carbon type

Adjust the oscillator's "B" band high frequency aligner for maximum output.

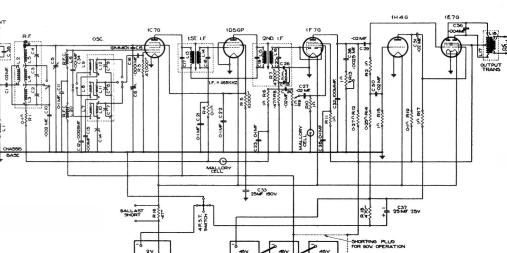
quency and the receiver's tuning dial to 3.4 megacycles.

Adjust the antenna's "B" band high frequency aligner for maximum output, and at the same time rotate the gang tuning capacitor back and forth through resonance until maximum output is obtained

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

with the test oscillator's output lead with a 200-micro-microfarad capacitor and align these circuits as follows: In aligning the radio frequency circuits for this range, replace the 400-ohm carbon type resistor in series

- Operate the Range Switch to the "A" range position and set the test oscillator's frequency tuning dial to 1.4 megacycles.
- Adjust the oscillator's "A" band high frequency aligner for maximum output
- Adjust the antenna's "A" band high frequency aligner for maximum
- Set the test oscillator's frequency and the receiver's tuning dial to 0.6 megacycles.
- Adjust the oscillator's "A" band low frequency aligner (series aligner) for maximum output, and at the same time rotate the gang tuning capacitor slightly back and forth through resonance until maximum output is ob-
- Reset both the test oscillator's frequency and receiver's tuning dial to 1.4 megacycles and Nos. 2 and 3.



			Terminals of Sockets								Filament Voltages Between Filament	
											Terminals	
Tube	Circuit	Cap	1	2	3	4	5	6	7	8	Socket Terminal Numbers	Volts
1C7G	Mod.—Osc.	0		0	92	55	-12.5	91	2.15		2-7	2.15
1D5GP	I. F. Amp.	0	_	0	92	55	0	_	2.15		2-7	2.15
1F7G	Dem.—A.V.C. 1st Audio	0	_	0	8	0	0	6.5	2.15		2-7	2.15
1H4G	Phase Inverter	_	6	0	18	_	0	_	2.15	2	2-7	2.15
1E7G	Output Push-Pull	_	_	0	91	0	0	91	2.15	92	2-7	2.15