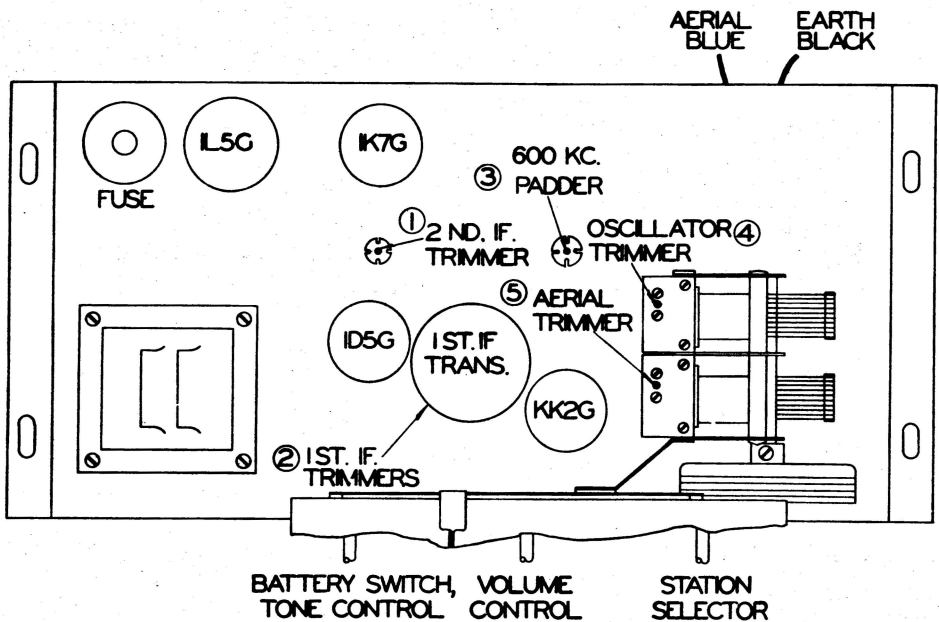


Stromberg-Carlson

STROMBERG-CARLSON SERVICE BULLETIN, No. 590

Stromberg-Carlson Model 590

BATTERY BROADCAST RECEIVER

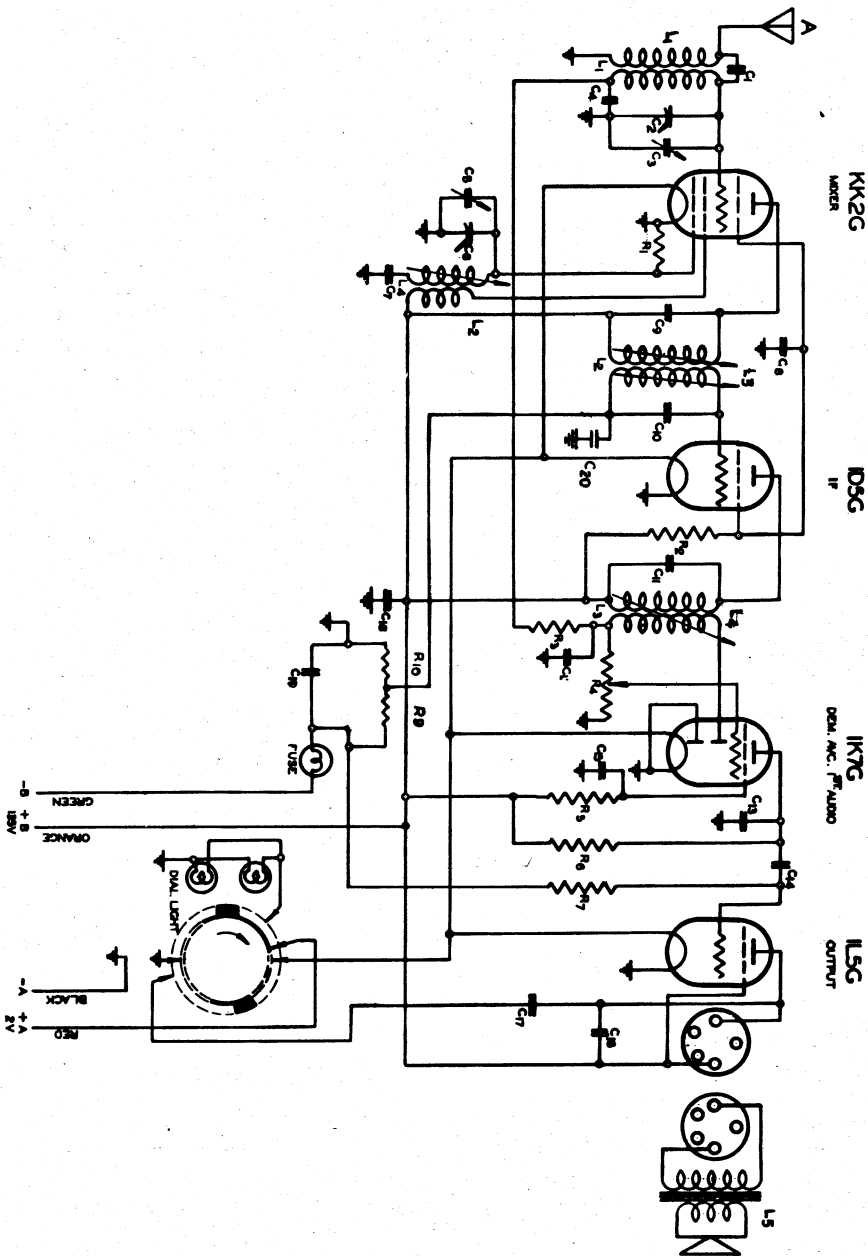


590

Chassis of Model 590

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IF 458 KC.

STROMBERG-CARLSON LTD. A/ASIA.			
MODEL	DATE	NO.	REMARKS
MODEL 590			
DRAWN BY	DATE	NO.	REMARKS
THOMAS B. MARTIN			
CHECKED BY	DATE	NO.	REMARKS
W. H. MARTIN			
N° 2949			
WITNESSED BY			
WITNESSED BY			

Then adjust the two hexagonal iron cores in the 1st IF transformer. These are accessible from the side of the IF can and are marked (2) in the chassis layout drawing.

BROADCAST BAND: Make sure that when the gang plates are fully meshed the dial pointer is on the line at the 550 KC end of the dial scale.

Connect the test oscillator to the blue aerial wire on the receiver by a standard dummy aerial or else a .0002 mfd condenser.

(a) Turn the receiver and test oscillator both to 600 KC. While rocking the gang to and from through resonance adjust the iron core in the oscillator coil by means of the brass screw (3) for maximum gain.

(b) Tune the test oscillator to 1400 KC, and set the receiver dial to 1400 KC. Adjust the oscillator trimmer (4) to resonance. Then adjust aerial trimmer (5) for maximum gain.

Repeat operations (a) and (b).

CIRCUIT CODE MODEL 590.

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C.	Part Number	Description.	R.	Part Number.	Description.	L.	Part Number	Description.
C1	2515	5 mmf.	R1	2549	.05 Mr	1/3 W	2874	Aerial Coil.
C2	2812	2 Gang Type H. C.C	R2	2514	.03 Mr	1/2 W	2866	Oscillator Cell.
C3	2543	Air Trimmer	R3	2571	1 Mr	1/3 W	2954	1st. IF Transformer.
C4	2667	.05 mF 200V.	R4	2855	.25 Mr	Volume Control	2894	2nd IF Transformer.
C5	2543	Air Trimmer.	R5	2571	1 Mr	1/3 W.	2935	Speaker.
C6	2812	2 Gang Type H. C.C	R6	2569	.25 Mr	1/3 W.		
C7	2974	440 mmf Padder.	R7	2570	.5 Mr	1/3 W.		
C8	2306	.1 mF 200V.	R8	-	-	-		
C9	2863	100 mmf.	R9	5892	250 W	1/3 W.		
C10	2863	100 mmf.	R10	2612	50 W	1/3 W		
C11	2658	150 mmf.						
C12	2583	250 mmf.						
C13	2582	100 mmf.						
C14	2580	.01 mF 400 V.						
C15	2306	.1 mF 200 V.						
C16	2581	.002 mF 400 V.						
C17	2580	.01 mF 400V						
C18	2913	.5 mF 200V						
C19	2576	10 mF 25V.						
C20	2667	.05 mF 200 V.						

S T R O M B E R G - C A R L S O N

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OPERATION: Looking at the front of the chassis and reading from left to right, the three controls are as follows :- On-Off Switch and Tone Control. Volume. Station Selector.

On-Off Switch: This has four positions.

Position 1.	(Anticlockwise)	Receiver off.
"	2.	Receiver on, Dial lamps on.
"	3.	Receiver on, Dial lamps off.
"	4. (Clockwise)	Receiver on, Dial lamps off. Tone Control on.

To reduce the drain on the "A" Battery, only use position 2 for finding the desired station, then turn the switch to either position 3 or 4.

VOLTAGES: The location of all valves is shown on the front page.

All voltages were measured with a voltmeter having a resistance of 1000 ohms per volt between the points indicated and chassis.

Valve.		Plate.	Screen.	Back Bias.
KK2G	Mixer	125	55	-
	Oscillator Section.	125	-	-
ID5G	IF	125	55	1.5
IK7G	Dem. Ave. 1st Audio.	50	*	-
IL5G	Output.	123	125	4.7

*The IK7G screen is series fed through 1 megohm from B+125V.

ALIGNMENT INSTRUCTIONS: This should only be undertaken by a competent service man equipped with a calibrated test oscillator. Refer to the front page for a chassis layout drawing showing the location of all trimming screws, which will be referred to by letters corresponding to those on the drawing.

IF TRANSFORMERS: Turn volume control full on. Set test oscillator to 458KC and connect it to the grid of the KK2G valve through a condenser of about .05mfd capacity.

Using a small screwdriver adjust the brass screw (1) attached to the iron core in the 2nd IF transformer for maximum gain. This transformer is situated close to the ID5G valve socket.