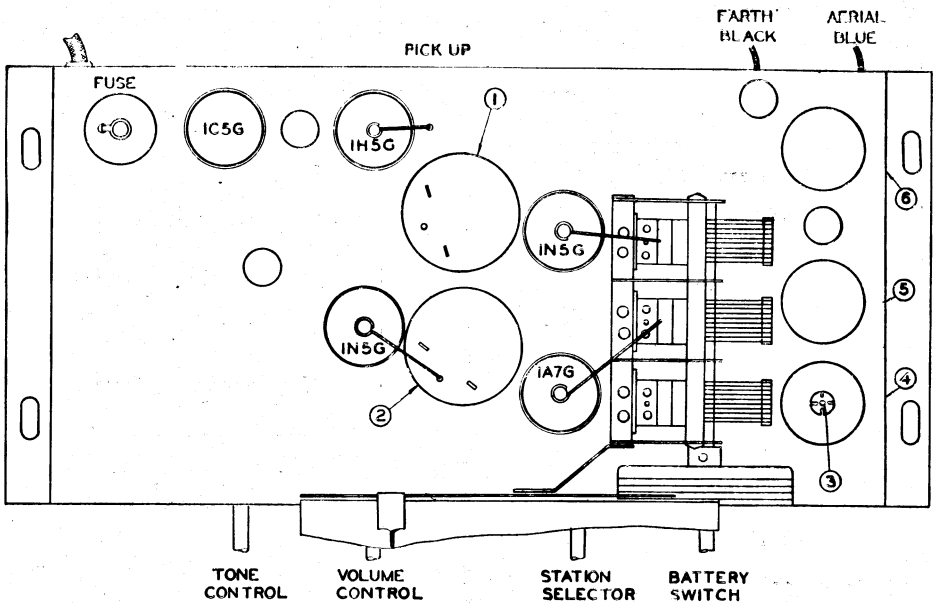


Stromberg-Carlson

STROMBERG-CARLSON
SERVICE BULLETIN, No. 690

Stromberg-Carlson Model 690 Superheterodyne

BATTERY BROADCAST RECEIVER



Chassis of Model 690

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

Then adjust the four hexagonal iron cores in the I.F. transformers. These are accessible from the side of the I.F. cans and are marked (1) and (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 (6) and R.F. trimmer (5) for maximum gain.

Repeat operations (a) and (b).

CIRCUIT CODE 690

No.	Part No.	DESCRIPTION.	No.	Part No.	DESCRIPTION.
CONDENSERS.			RESISTORS.		
1.	2515	5 mmf.	31.	2550	.1 Mw. 1/3W.
2.	5774	3 Gang Type F. C-C.	32.	2569	.25 Mw. 1/3W.
3.	2543	Air Trimmer	33.	2571	1 Mw. 1/3W.
4.	2667	.05 mF. 200V.	34.	2570	.5 Mw. 1/3W.
5.	2515	5 mmf.	35.	5750	.5 Mw. Volume Control
6.	5774	3 Gang Type F. C-C.	36.	2570	.5 Mw. 1/3W.
7.	2543	Air Trimmer	37.	2569	.25 Mw. 1/3W.
8.	2667	.05 mF. 200V.	38.	5710	.3 w. W.W.
9.	2306	.1 mF. 200V.	39.	2666	500 w. 1/3W.
10.	2582	100 mmf.	40.	2612	50 w. 1/3W.
11.	5774	3 Gang Type F. C-C.			
12.	2543	Air Trimmer			
13.	2974	440 mmf.			MISCELLANEOUS.
14.	2863	100 mmf.	45.	5866	Aerial Coil
15.	2863	100 mmf.	46.	5867	R.F. Coil
16.	2658	150 mmf.	47.	5861	Oscillator Coil
17.	2659	250 mmf.	48.	2954	1st I.F. Transformer
18.	2583	250 mmf.	49.	2673	2nd I.F. Transformer
19.	2580	.01 mF. 400V.	50.	5777	Speaker (Permag.)
20.	2646	500 mmf.			
21.	2580	.01 mF. 400V.			
22.	2581	.002 mF. 400V.			
23.	5941	.03 mF. 400V.			
24.	2604	.006 mF. 400V.			
25.	2913	.5 mF. 200V.			
26.	2576	10 mF. Electrolytic			
27.	2667	.05 mF. 200V.			

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

ON-OFF SWITCH: This has three positions. When turned fully to the left the receiver is switched off. When in the centre position the receiver is switched on, and the dial illuminated. After tuning to the required station turn the switch to the third (right) position. This will extinguish the dial lamps only, thus reducing the drain on the "A" battery. The fourth position connects Tone Control circuit.

PICK-UP OPERATION: The three pick-up jacks are located on the back of the chassis. To use a pick-up, remove the metal bar between the centre and right-hand jacks, and connect the pick-up to the centre and left-hand jacks. The metal bar must be replaced in its original position when the radio is to be used again. The tone and volume controls both operate on the pick-up.

VALVES AND VOLTAGES: The location of the valves is shown on the drawing on page 1.

Valve.		Plate.	Screen.	Back Bias.
IN5G	R.F.	83	83	—
IA7G	Mixer	83	35	—
	Triode Section	83	—	—
IN5G	I.F.	83	83	0.5
IH5G	Dem. AVC. Audio	30	—	—
IC5G	Output	80	83	7

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

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 numbers corresponding to those on the drawing.

I.F. TRANSFORMERS: Turn volume control full on. Set test oscillator to 458KC. and connect it to the grid of the IA7G valve through a condenser of about .05 mfd. capacity.

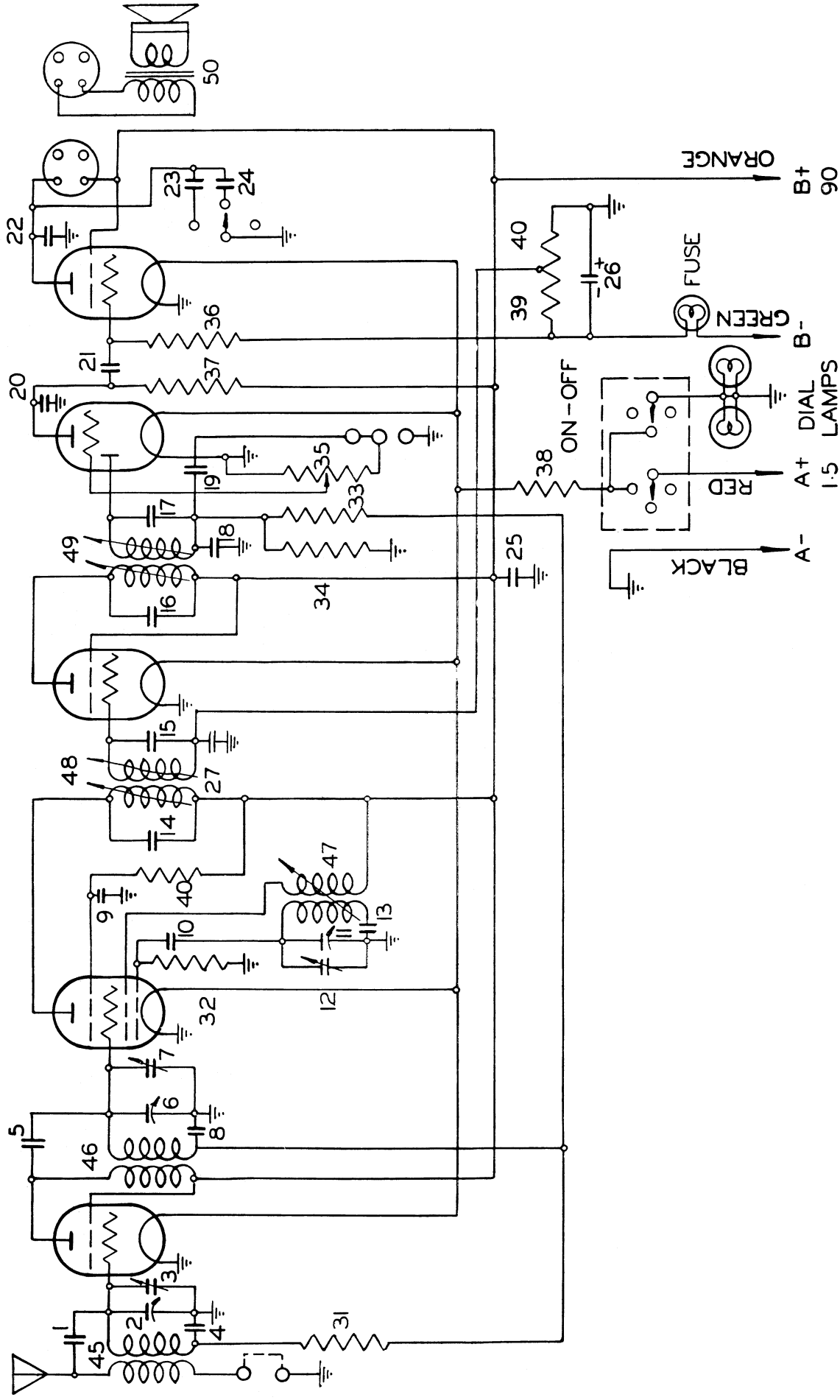
IN5G
R.F.

1A7G
MIXER

IN5G
IF

IH5G
DEM. AVC. 1st AUDIO

IC5G.
OUTPUT



IF 458 KC.