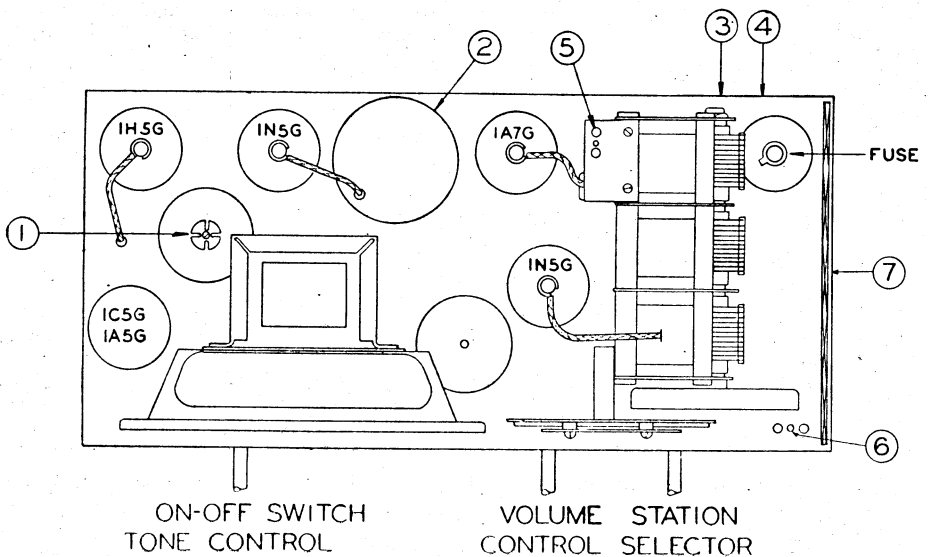


# Stromberg-Carlson

STROMBERG-CARLSON  
SERVICE BULLETIN, No. D50-PD50

## Stromberg-Carlson Model D50-PD50 Superheterodyne

BATTERY BROADCAST RECEIVER



### Chassis of Model D50-PD50

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# 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. In receivers used for portable operation it is wise to remove the dial lamp.

**VALVES AND VOLTAGES:** The location of all valves is shown on page 1. The types 1A5G and 1C5G are interchangeable without circuit alterations.

1C5G = Power output .24 watt, total B current 12 MA.

1A5G =       "      "      .12 "      "      "      "      8 MA.

Valve.		Plate.	Screen.	Back Bias.
1N5G	R.F. ....	83	83	—
1A7G	Mixer ....	83	35	—
	Triode Section ....	83	—	—
1N5G	I.F. ....	83	83	0.5
1H5G	Dem. AVC. Audio ....	30	—	—
1C5G	Output ....	80	83	7
or 1A5G	Output ....	83	85	4.5

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 1A7G valve through a condenser of about .05 mfd. capacity.

# CIRCUIT CODE D50-PD50

No.	Part No.	DESCRIPTION.	No.	Part No.	DESCRIPTION.
<b>CAPACITORS.</b>			<b>RESISTORS.</b>		
1.	2515	5 mmf.	40.	2550	.1 Mw. 1/3W.
2.	6126	3 Gang Type H. C-C.	41.	2569	.25 Mw. 1/3W.
3.	2543	Air Trimmer	42.	6114	.075 Mw. 1/3W.
4.	2667	.05 mF. 200V.	43.	2571	1 Mw. 1/3W.
5.	6124	8 mmf.	44.	2570	.5 Mw. 1/3W.
6.	6126	3 Gang Type H. C-C.	45.	5419	Volume Control 1Mw.
7.	2543	Air Trimmer	46.	4486	.25 Mw. 1W.
8.	2667	.05 mF. 200V.	47.	2570	.5 Mw. 1/3W.
9.	2306	.1 mF. 200V.	48.	2728	600 w. 1/3W.
10.	2582	100 mmf. Mica	49.	2612	50 w. 1/3W.
11.	2543	Air Trimmer	50.	5710	.3 w. Wire Wound
12.	6126	3 Gang Type H. C-C.			
13.	2974	440 mmf. $\pm 2\frac{1}{2}\%$ Mica			
14.	2863	100 mmf. $\pm 2\frac{1}{2}\%$ Mica	70.	—	Aerial Coil, No. 2874, or Loop Antenna, No. 6277. Receivers using 2874 omit 6277. Receivers using 6277 omit 2874, and Capacitor, No. 1.
15.	2863	100 mmf. $\pm 2\frac{1}{2}\%$ Mica			
16.	2658	150 mmf. $\pm 2\frac{1}{2}\%$ Mica			
17.	2583	250 mmf. Mica			
18.	2580	.01 mF. 400V.	71.	6099	Detector Coil
19.	2597	.001 mF. Mica	72.	6101	Oscillator Coil
20.	2580	.01 mF. 400V.	73.	2954	1st I.F. Transformer, 458K.C.
21.	2581	.002 mF. 400V.	74.	4062	2nd I.F. Transformer, 458K.C.
22.	2576	10 mF. 25V.	75.	6130	Speaker, 15000w. (Permag.)
23.	2913	.5 mF. 200V.	—	2925	Glass Dial Scale
24.	2657	.05 mF. 200V.	—	6148	Battery Switch
25.	2696	.02 mF. 400V.			

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

With a long thin screwdriver adjust the iron core in the 2nd I.F. Transformer by means of the brass screw (1) on top of the can. Then adjust the two hexagonal iron cores in the 1st I.F. transformer.

These are accessible from the side of the I.F. 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.

On receivers employing a loop antenna a terminal takes the place of the blue wire.

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

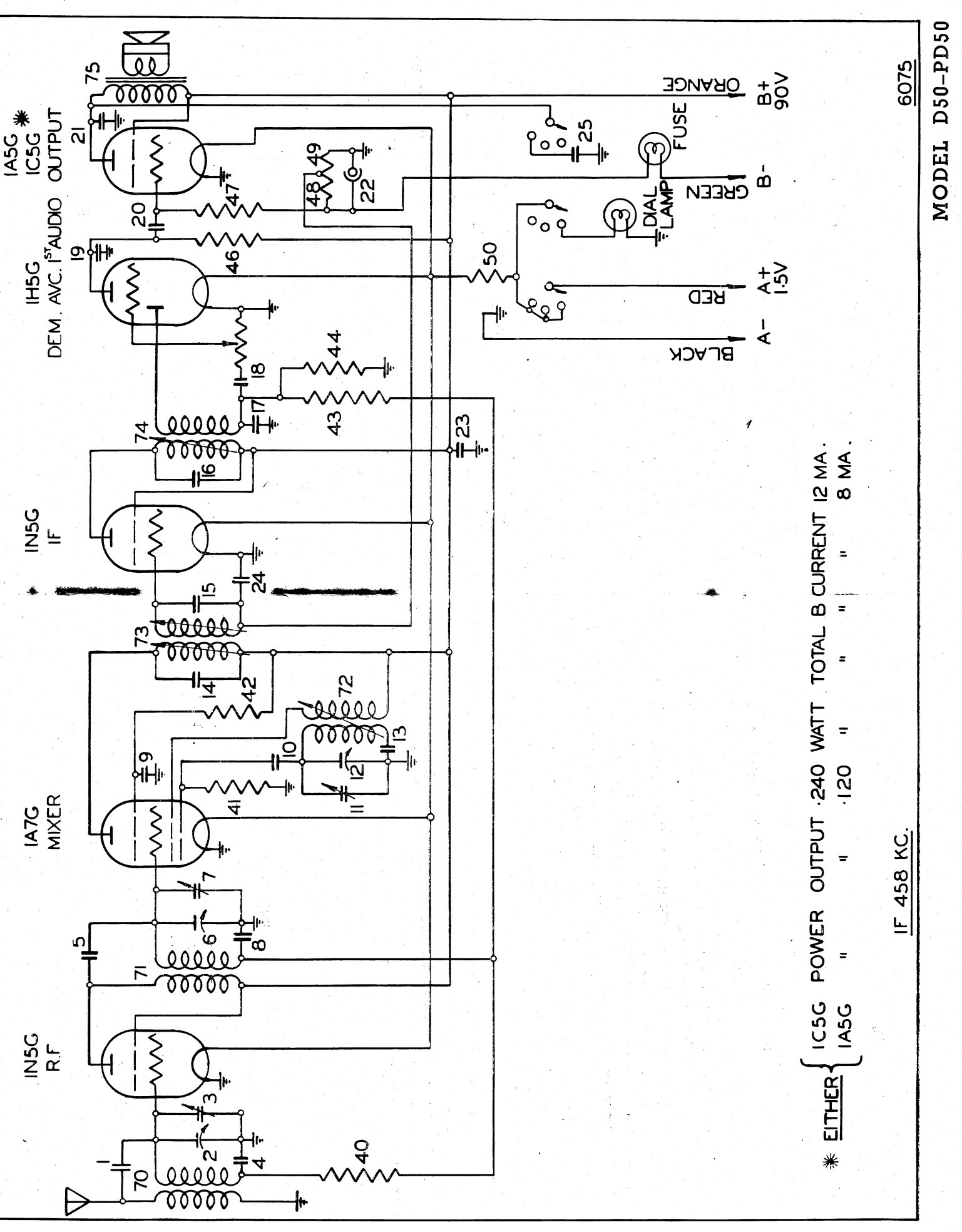
(b) Tune the test oscillator to 1400 KC. and set the receiver dial to 1400 KC. Adjust the oscillator trimmer (4) to resonance. Then adjust aerial trimmer (7) and R.F. trimmer (5) for maximum gain.

Repeat operations (a) and (b). Trimmers (3) and (4) are beneath the chassis. Use a long screwdriver poked through the holes provided in the back.

**IMPORTANT.** In receivers using a LOOP ANTENNA, trimmer (7) is replaced by (6).

Having carried out operations (a) and (b), leave the test oscillator on 1400 KC., DISCONNECT the dummy aerial from the receiver and READJUST AERIAL TRIMMER (6).

It will be necessary to considerably increase the output from the test oscillator while carrying out the last operation.



\* EITHER { IC5G POWER OUTPUT 240 WATT TOTAL B CURRENT 12 MA.  
 IA5G " " 120 " " " 8 MA.

IF 458 KC.

6075

MODEL D50-PD50