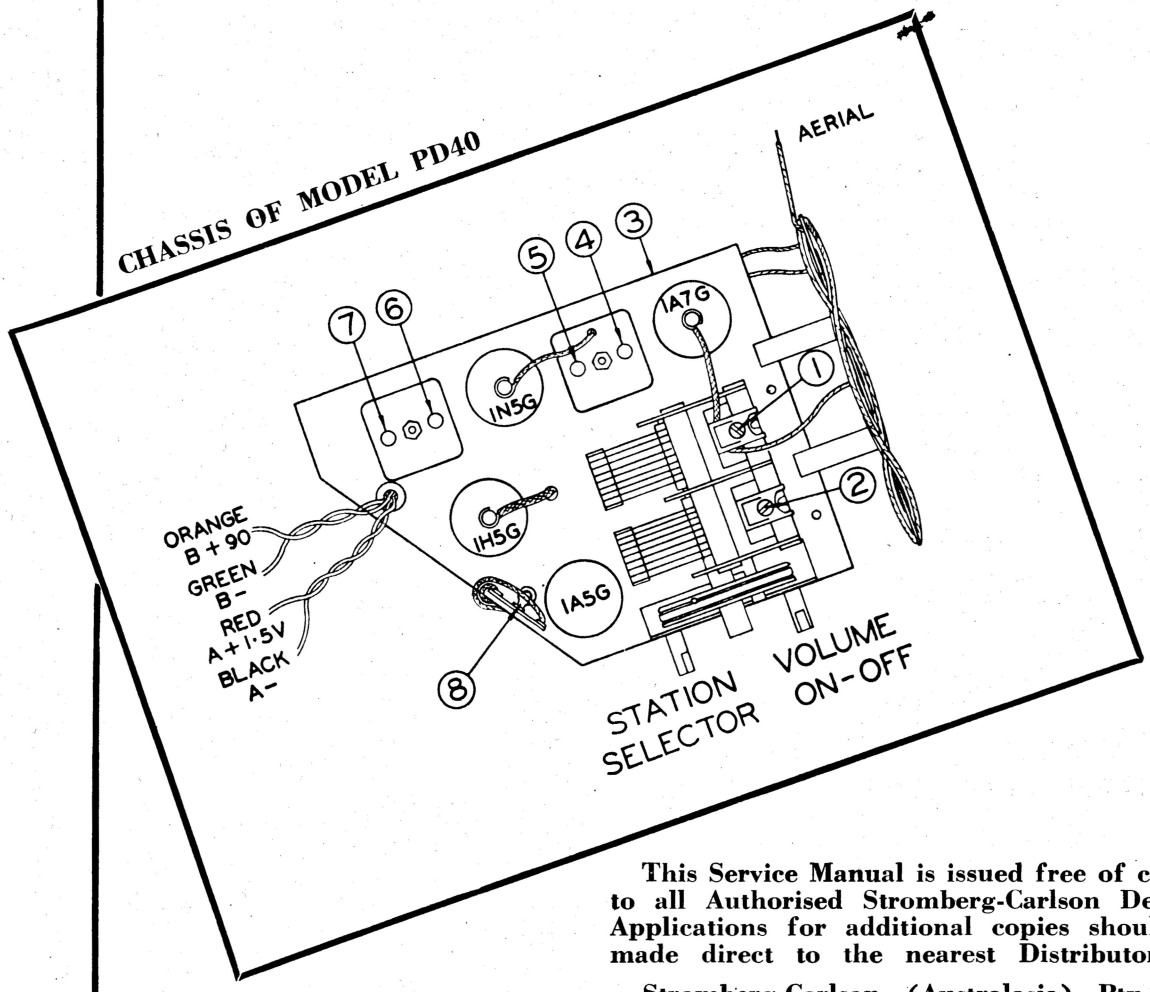
Stromberg-Carlson

SERVICE MANUAL

Stromberg-Carlson Model PD40
4-Valve Superheterodyne
Battery Broadcast Receiver



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With a screwdriver, preferably an insulated screwdriver, adjust the screws (4) (5) (6) (7) located at the top of the I.F. Transformers for maximum gain.

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 aerial wire of the loop 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 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 1480 KC. Adjust the oscillator trimmer (2) to resonance. Then adjust aerial trimmer (1) for maximum gain.

Repeat operations (a) and (b). Trimmers (2) and (1) are located at the top of the gang. Brass Screw (3) is located beneath the chassis. Use a long screwdriver poked through the hole provided in the back of the chassis.

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 (1).

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

CIRCUIT CODE PD40

No.	Part No.	DESCRIPTION
		CAPACITORS
1.	6558	Gang Cond. Type GS2.
2.	6533	Trimmer
3.	6558	Gang Cond. Type GS2.
4.	6533	Trimmer
5.	6568	386 mmF. ± 2½%
6.	2582	100 mmF. Mica
7.	2306	.1 mF. 200V.
8.	2667	.05 mF. 200V.
9.	2306	.1 mF. 200V.
10.	2583	250 mmF. Mica
11.	6567	.001 mF. 400V.
12.	2582	100 mmF. Mica
13.	6567	.001 mF. 400V.
14.	2581	.002 mF. 400V.
15.	2576	10 mF. 25V.P.
16.	2667	.05 mF. 200V.

No.	Part No.	DESCRIPTION
		RESISTORS
20.	2569	.25 Mw. 1/3W.
21.	6114	60,000W. 1/3W.
22.	2570	5 Mw. 1/3W.
23.	2571	2 Mw. 1/3W.
24.	2569	2 Mw. 1/3W.
25.	6562	1 Mw. Volume Control
26.	2571	1 Mw. 1/3W.
27.	6499	2 Mw. 1/3W.
28.	2666	600 w. 1/3W.
29.	5710	.3w. W.W.
		MISCELLANEOUS
35.	6516	Loop Antenna
36.	6519	Oscillator Coil
37.	6544	1st I.F. Transformer
38.	6545	2nd I.F. Transformer
39.	6560	Speaker 15,000 w. Per mag.
40.	6562	ON-OFF Switch
41.	6559	Dial Scale Assy.

OPERATION: Looking at the front of the chassis and reading from left to right, the controls are as follows:—Station Selector—Volume and ON-OFF.

CONNECTING AN EXTERNAL AERIAL & EARTH: Loosen the screws marked A and E on the back of the cabinet, and place the Aerial and Earth wires between the washers and cabinet. Retighten screws.

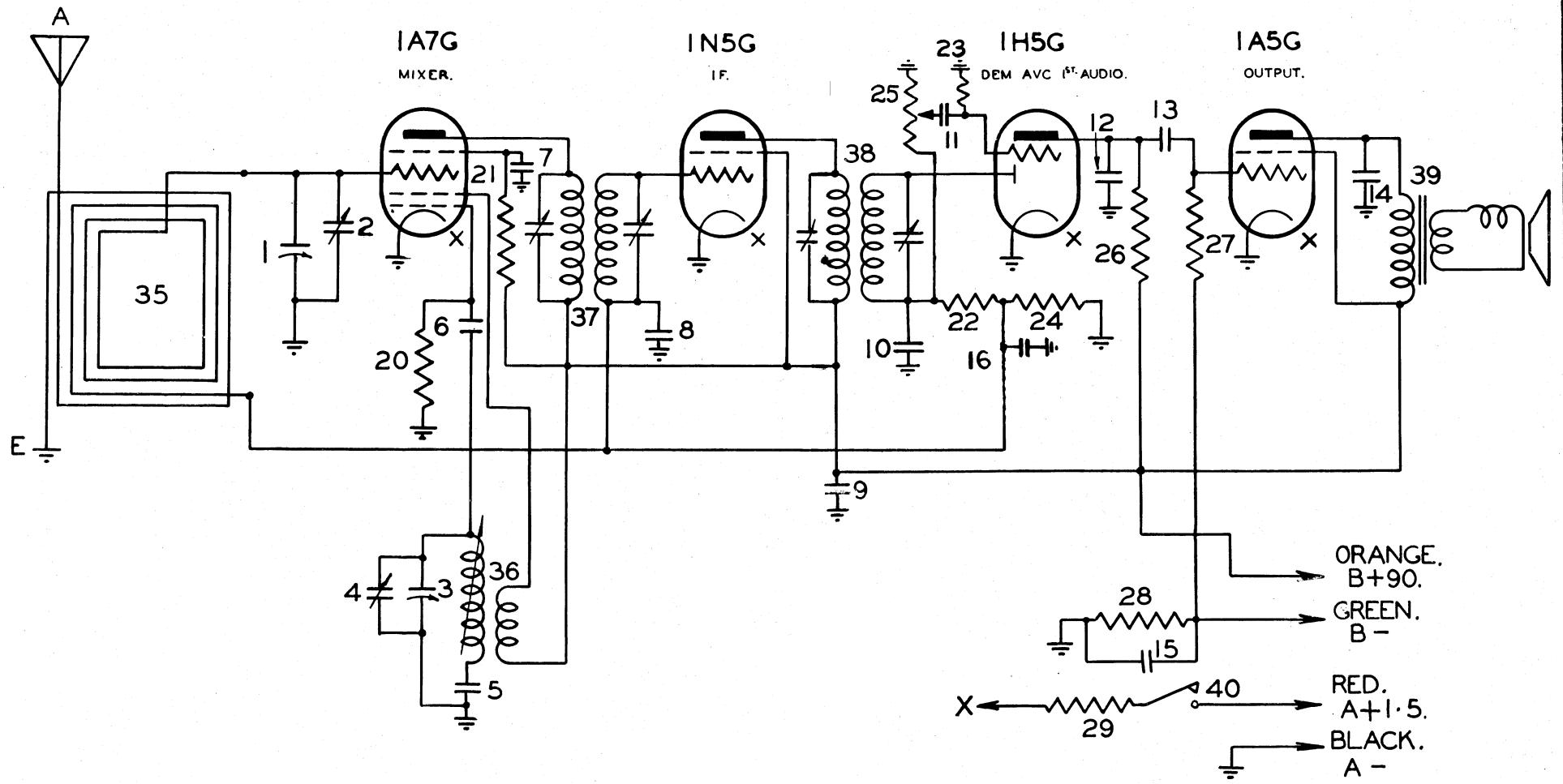
VALVES AND VOLTAGES: The location of all valves is shown on page 1.

Valve.		Plate.	Screen.	Back Bias.
1A7G	Mixer	83	35	—
	Triode Section	83	—	—
1N5G	I.F.	83	83	—
1H5G	Dem. AVC. Audio	30	—	—
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 458 K.C. and connect it to the grid of the 1A7G valve through a condenser of about .05 mfd. capacity.



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MODEL PD40

I.F. 458 KC.

6610.