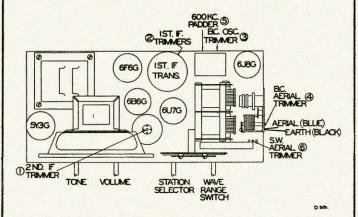
# Stromberg-Carlson

### STROMBERG - CARLSON SERVICE BULLETIN, No. D39

# Stromberg-Carlson Model D39

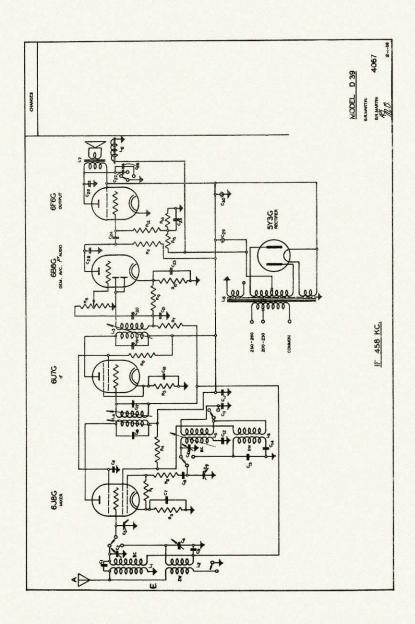
A.C. DUAL WAVE RECEIVER



# Chassis of Model D39

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CIRCUIT CODE MODEL D39 RECEIVER.

NOS	No. Description	æ	Ne.	Description	tion		1	Part No.	Description
	5 1116	RI	2549	OS MIT	1/4 W		13	27,86	B.C. Lowing Coff
		H	2612	20.	1/3 #		2	4045	S.W. Aemial Coil
		E	2700	300 M	1/4 11		25	4066	Oseillator Coil
		RA	4054	- B		-	14	2954	1st TF Prancforme
	°05 mg	R.	97798	100	1/2 th		14	Anko	2nd TP Presnor
		R6	2975	O4 Mbr	11/1	•	14	-	Meld 1000 w
	ol mf	B		1 Mar	1/2 11		- 4:	2951	Transformer 7000m
	100 mm	H8	4578	1 Mer Vo	1 Me Velume Control. (4373)	373)	. 81	2465	Power Transformer
		E3		25 MIN	1/3 W.			1	
		RIO		4000 W	1/3 11				
		ROI		25 MW	1/4 車.				
		R12		- Line	1/3				
	5 1116	RIS	2571	I WE I	/3 M				
		RIA	2569	25 MW	1/3 W.				
	150日								
	250 mm								
	10 mf. 25 T.								
	•00 mf 400 V°								
C28 2579									
30) 2952	8 mf 500 V.								

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OPERATION: Locking at the front of the chassis the four controls reading from left to right are: Tone = Volume = Station Selector = Wave Range Switch.

TONE CONTROL: Turning electrise increases the high frequency response of the Receiver.

VOLUME CONTROL: Turn control clockwise to increase volume.

WAVE RANGE SWITCH: This has two positions, clockwise for recaption of short wave stations between 16 and 45 metres, and counter clockwise for the regular broadcast band 1600 to K.G.

LINE VOLTAGE PANEL: This is located beneath the chassis near the power transformer and has three lugs marked "common," "200 = 230," and "230 = 260."

Always operate the receiver on the tapping nearest to but not greater than the line voltage in the district. When leaving the factory the tap is set to 290 - 260 volts.

WHEN MAKING ADJUSTMENTS SEE THAT THE POWER PLUG IS COMPLETELY REMOVED FROM THE SOCKET OF THE POWER SUPPLY.

One wire from the power cord must always be left on the "common" lug. The other wire is soldered to either the "200  $\simeq$  230" or "230  $\simeq$  260" lugs.

VOLTAGES: These were measured with a line voltage of 240 and a voltmeter having a remistance of 1000 chms per volt. All readings were measured between the points indicated, and chassis.

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

-	VALVE	PLATE	SORGEN	CATHODE
618G	Mixer	210	70	9
	Oscillator Section	160	500	
607G	I.F.	21.0	70	9
6007G 686G	Deme A.V.C. Let Audio.	80	ae	3
6F5G	Output	195	210	ő*

\* The grid bias for the 6F6G cannot be directly measured on an ordinary voltmeter. It is derived from the voltage drop (55 volts) across the speaker field situated in the negative HT lead.

To reduce the 55 volts to a suitable value for bias two resistors of I megohm and 0.25 megohm are connected in series across the field and their common point gives II volts bias for the GFG.

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RECEIVER ALIGNMENT INSTRUCTIONS:

The adjustment of the trimmers should only be undertaken by a qualified service man equipped with a calibrated test oscallstor.

Refer to the chassis drawing on the front page for the Location of the various trimmers referred to by numbers in the next paragraphs.

IcFo = Turn the volume control fully clockwise and the wave range switch counter clockwise. Set the test oscillator to 458 KV and connect it to the grid of the 6484 through a condenser of about 0.05 MFd. especity. With a long thin screw - driver adjust the brass screw (1) on the 2nd IF transformer for maximum gain. Then adjust the two hexagonal headed "Front cores (2) in the side of the let IF transformer.

EROADCAST BAND: First make sure that when the gang condenser plates are fully meshed the dial pointer is on the line at the  $550~K_{\circ}C_{\circ}$  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 K.C. While rocking the gang back and forth through resonance adjust the iron core (5) in the oscillator coil by means of the chassis.
- (b) Turn the test oscillator to 1400 KC, and set the receiver dial pointer to 1400 KC. Adjust the oscillator trimmer (3) to resonance. Then adjust the aerial trimmer (4) for meximum gain.

Repeat operations (a) and (b).

SHORT MAVE BAND: Turn the wave range switch clockwise to the S W position. Replace the .0002 MTd condenser joining the test oscillator to the blue aerial wire by a 400 or 500 dmm carbon resistor.

Set the test oscillator to 17 metres, tune it in on the receiver and adjust the SW aerial trimmer (6) for maximum gain while rotating the gang through resonance. The test oscillator will be picked up in two adjacent spots near 17 metres. The correct one to use is nearer 16 metres, the other being the Wimage."

No. S.W. oscillator trimmer or variable padder is employed so this completes the alignment.