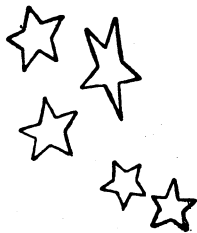


Stromberg-



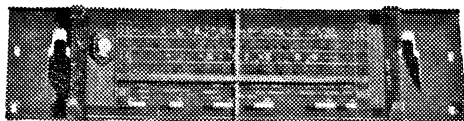
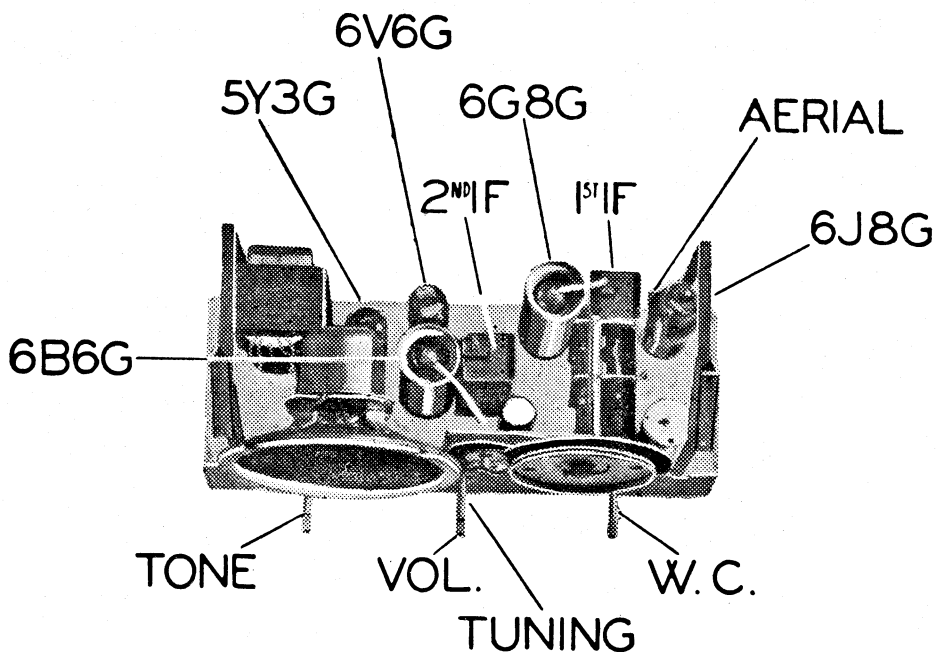
Carlson

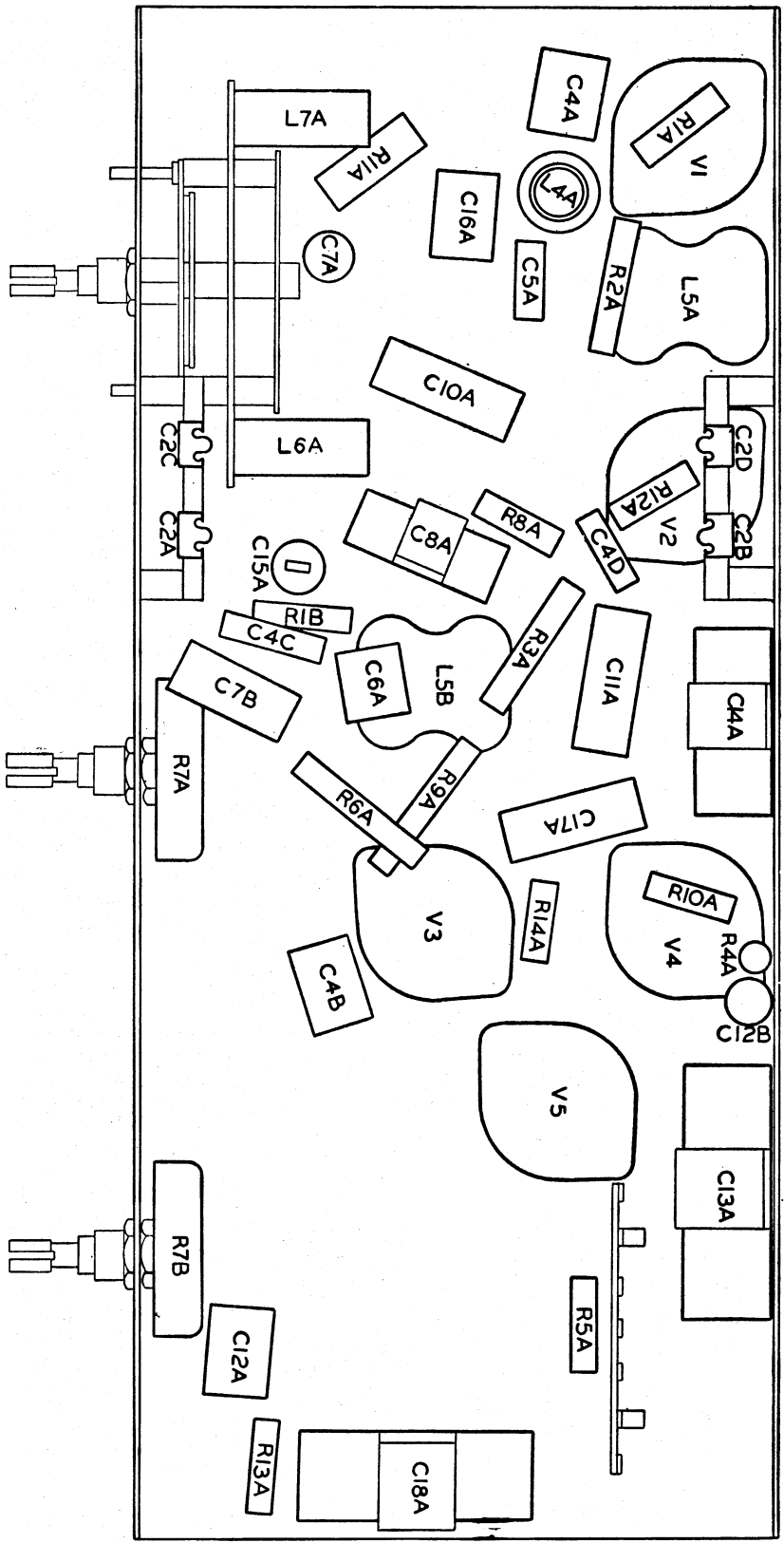


SERVICE MANUAL

Stromberg-Carlson Model 5A46 5-Valve Superheterodyne A.C. DUAL WAVE RECEIVER

CHASSIS OF MODEL 5A46





MODEL ~ SA46

STROMBERG - CARLSON		MSEA LTD	
CHASSIS		DRAWN	
UNDER VIEW		TRACED	
RECEIVER TYPE SA46		CHECKED	
APPROVED		DATE	
No. 23534		7/9/45	

CIRCUIT CODE MODEL 5A46

S/C. P/No	Location	S/C. P/No	Symbol	Description	Location	S/C. P/No
<u>Condensers</u>						
C1A				Fixed 5µuf		
C2A	7F	2515	R1A	Variable Trimmer		2B 2708
C2B	2F	2245B	R1B		6H	2708
C2C	7E	"	R2A		3D	4482
C2D	2E	"	R3A		3H	4483
C3A		"	R4A		1L	13406
C4A	3B	22579	R5A	Type "H" Gang	3R	22419
C4B	6L	2582	R6A	Fixed 100µuf 10%	5J	13440
C4D	3G	2582	R7A	Fixed 100µuf 10%	6J	22430
C5A	4D	21865	R7B	" 440 µuf	8P	22430
C6A	5H	2583	R8A	" 250 µuf 10%	4F	22416
C7A	6C	4055	R9A	" .01 µuf 600 V.	5J	13426
C7B	7H	4055	R10A	" " " "	2K	
C8A	5G	2578	R11A	" .1 µuf 400 V.	6B	13864
C9A	2D	21795	R12A	" 100 µuf 2%	2F	13333
C9B	2D	"	R13A	" " " "	7T	
C9C	5H	"	R14A	" " " "	4L	
C9D	5H	"		" " " "		
C10A	5E	2667		" " " "		
C11A	3H	2579	L1A	" " " "		
C12A	7R	3077	L2A	" " " "		
C12B	1L	3077	L3A	" " " "		
C13A	2N	2265C	L4A	" " " "		
C14A	2H	13791	L5A	" " " "	3C	22471
C15A	6G	13349	L5B	" " " "	2D	22451
C16A	4C	21670	L6A	" " " "	5H	22451
C17A	4J	3076	L7A	" " " "	6F	22451
C18A	5T		L8A	" " " "	6A	22451
C19A				" " " "	7A	22451
C20A				" " " "	7B	22451
C21A				" " " "	7C	22451
C22A				" " " "	7D	22451
C23A				" " " "	7E	22451
C24A				" " " "	7F	22451
C25A				" " " "	7G	22451
C26A				" " " "	7H	22451
C27A				" " " "	7I	22451
C28A				" " " "	7J	22451
C29A				" " " "	7K	22451
C30A				" " " "	7L	22451
C31A				" " " "	7M	22451
C32A				" " " "	7N	22451
C33A				" " " "	7O	22451
C34A				" " " "	7P	22451
C35A				" " " "	7Q	22451
C36A				" " " "	7R	22451
C37A				" " " "	7S	22451
C38A				" " " "	7T	22451
C39A				" " " "	7U	22451
C40A				" " " "	7V	22451
C41A				" " " "	7W	22451
C42A				" " " "	7X	22451
C43A				" " " "	7Y	22451
C44A				" " " "	7Z	22451
C45A				" " " "	7AA	22451
C46A				" " " "	7AB	22451
C47A				" " " "	7AC	22451
C48A				" " " "	7AD	22451
C49A				" " " "	7AE	22451
C50A				" " " "	7AF	22451
C51A				" " " "	7AG	22451
C52A				" " " "	7AH	22451
C53A				" " " "	7AI	22451
C54A				" " " "	7AJ	22451
C55A				" " " "	7AK	22451
C56A				" " " "	7AL	22451
C57A				" " " "	7AM	22451
C58A				" " " "	7AN	22451
C59A				" " " "	7AO	22451
C60A				" " " "	7AP	22451
C61A				" " " "	7AQ	22451
C62A				" " " "	7AR	22451
C63A				" " " "	7AS	22451
C64A				" " " "	7AT	22451
C65A				" " " "	7AU	22451
C66A				" " " "	7AV	22451
C67A				" " " "	7AW	22451
C68A				" " " "	7AX	22451
C69A				" " " "	7AY	22451
C70A				" " " "	7AZ	22451
C71A				" " " "	7BA	22451
C72A				" " " "	7BB	22451
C73A				" " " "	7BC	22451
C74A				" " " "	7BD	22451
C75A				" " " "	7BE	22451
C76A				" " " "	7BF	22451
C77A				" " " "	7BG	22451
C78A				" " " "	7BH	22451
C79A				" " " "	7BI	22451
C80A				" " " "	7BJ	22451
C81A				" " " "	7BK	22451
C82A				" " " "	7BL	22451
C83A				" " " "	7BM	22451
C84A				" " " "	7BN	22451
C85A				" " " "	7BO	22451
C86A				" " " "	7BP	22451
C87A				" " " "	7BQ	22451
C88A				" " " "	7BR	22451
C89A				" " " "	7BS	22451
C90A				" " " "	7BT	22451
C91A				" " " "	7BU	22451
C92A				" " " "	7BV	22451
C93A				" " " "	7BW	22451
C94A				" " " "	7BX	22451
C95A				" " " "	7BY	22451
C96A				" " " "	7BZ	22451
C97A				" " " "	7CA	22451
C98A				" " " "	7CB	22451
C99A				" " " "	7CC	22451
C100A				" " " "	7CD	22451

Receiver 5A46

CODE ~ CIRCUIT

23538

7846

RECEIVER ALIGNMENT INSTRUCTIONS.

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

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

I.F. Turn volume control and wave-range switch clockwise. Set test oscillator to A55 k.c. and connect it to grid of 6J8G through a condenser of about .05 Mfd. capacity. With a thin screwdriver adjust four screws on top and bottom of I.F. transformers for maximum output.

BROADCAST BAND: First make sure that when the gang condenser plates are fully meshed the dial pointer is on the line at the 550 k.c. end of the dial scale.

Connect the test oscillator to the Aerial Terminal on the Receiver by a standard dummy aerial, or else a .0002 Mfd. condenser.

(a) Connect the Signal Generator to the Aerial Terminal of the Receiver through the dummy aerial. Set the wave change switch to the broadcast band 1650-550 k.c.

(b) Turn Receiver dial to 1500 k.c. and apply a signal of 1500 k.c. from the Generator. Adjust the oscillator trimmer for maximum output.

(c) Turn Receiver dial to 600 k.c. and apply a 600 k.c. signal from the Generator. Adjust screw on top of oscillator coil until signal is received at maximum.

(d) Adjust screw on bottom of Aerial. Coil L2A for maximum signal and lock in place.

(e) Turn Receiver dial and Generator back to 1500 k.c. and carefully adjust broadcast oscillator trimmer (C1A) for resonance.

(f) Adjust Aerial trimmer for maximum signal.

(g) Repeat the operations.

SHORT-WAVE BAND: Turn the wave range switch counter-clockwise to the S.W. position. Replace the .0002 Mfd. condenser joining the test oscillator to the Aerial Terminal by a 400 or 500 ohm carbon resistor.

(a) Turn Receiver dial to 16 megacycles, set Generator to same frequency, and roughly adjust oscillator trimmer to resonance.

(b) Adjust Aerial trimmer for maximum gain, slightly rocking tuning dial during the process.

(c) Turn Dial and Generator to 8 megacycles and adjust padding screw on oscillator coil for resonance.

(d) Adjust the screw under Aerial for maximum gain while rocking the tuning dial.

(e) Repeat (a), (b), (c) and (d).

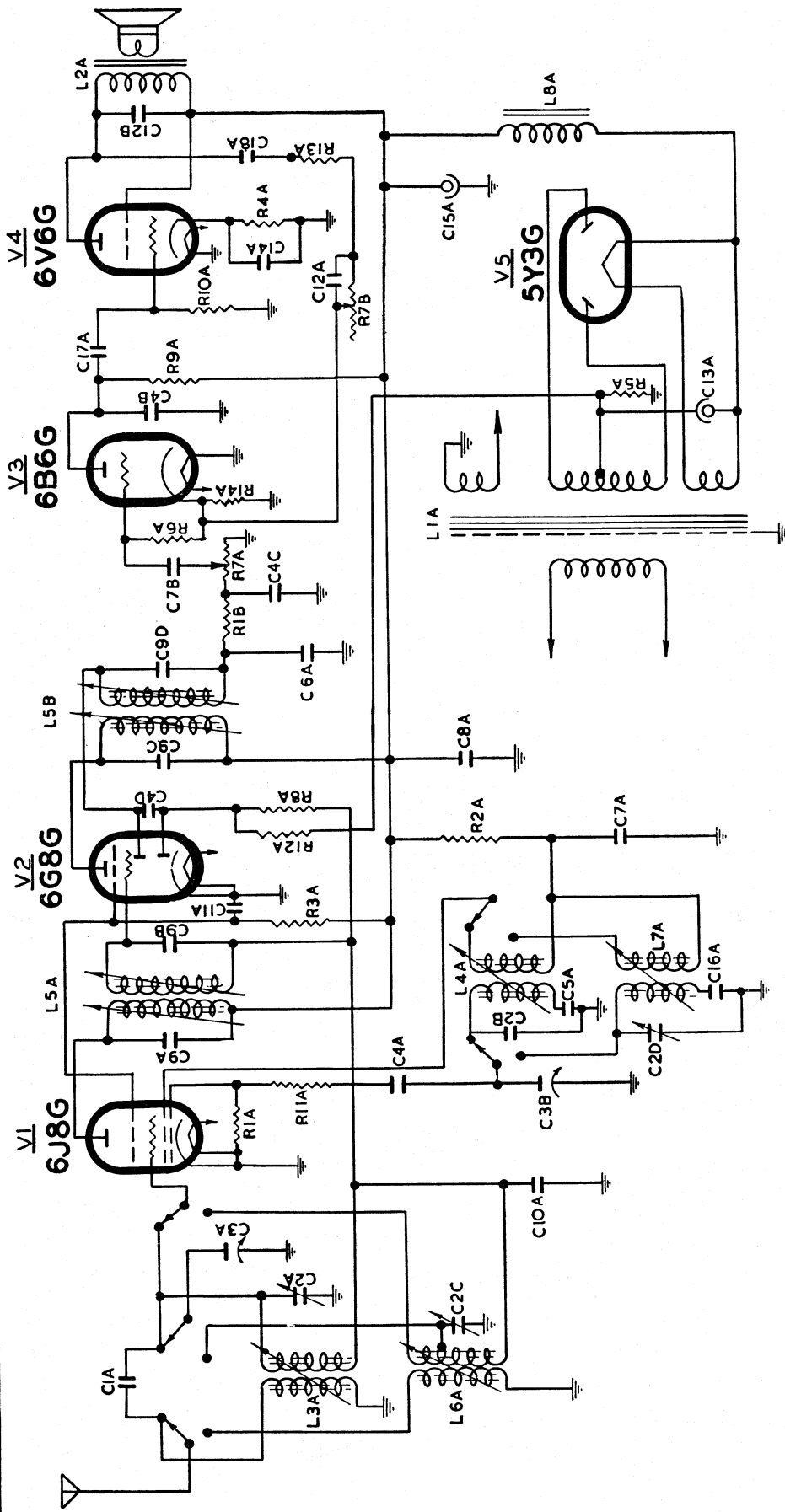
(f) Check calibration of dial at 16 and 6 megacycles.

NOTE.—On the short-wave band the oscillator frequency is higher than the signal frequency, and therefore, of the two signals tuneable by the receiver, the higher frequency signal is the correct one for alignment.

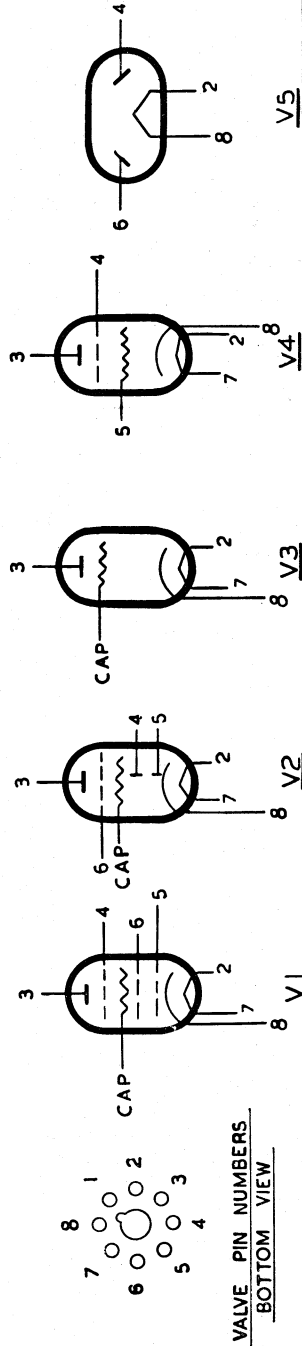
VOLTAGES: These were measured with a line voltage of 240 and a voltmeter having a resistance of 1,000 ohm per volt. All readings were measured between the points indicated, and chassis.

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

Valve	Plate	Screen	Cathode
6J8G, Mixer	270	75	0
6J8G, Osc.	150		
6G8G, I.F. Amp. 2nd Det.	270	75	0
6B6G, Audio Amp.	120		0.2
6V6GT, Output Tube	260	270	14
5Y3GT, Rectifier	350 } 350 } V.A.G.		



STROMBERG - CARLSON ^{ASIA} LTD.
CIRCUIT 5A46
 DRAWN *[Signature]*
 TRACED
 CHECKED G. Jenkins APPROVED
 No. 23744
 DATE: 7-46



VALVE PIN NUMBERS
 BOTTOM VIEW