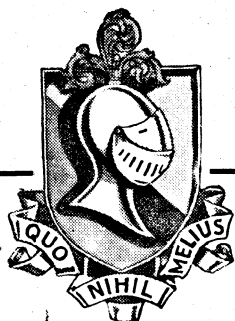
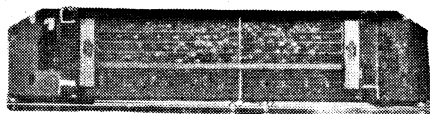
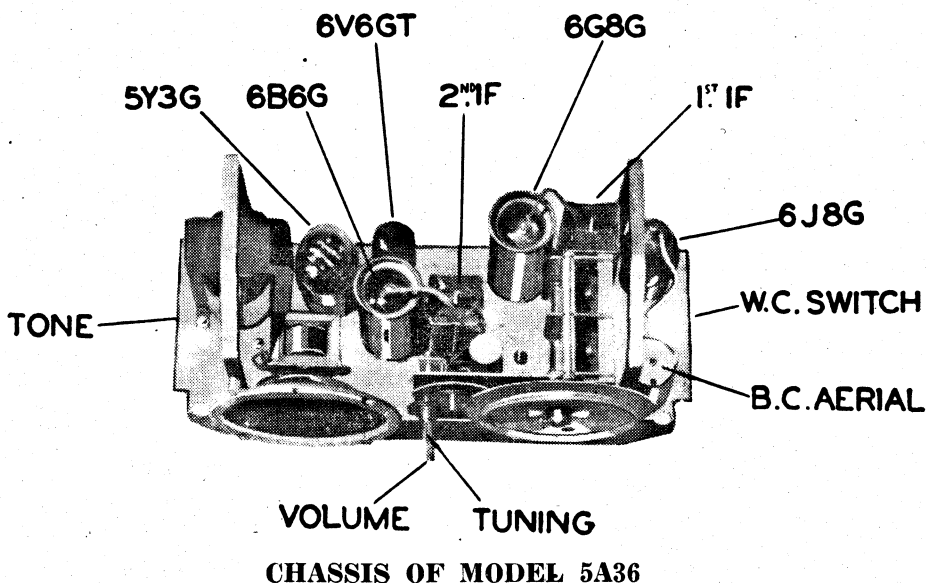


Stromberg- Carlson



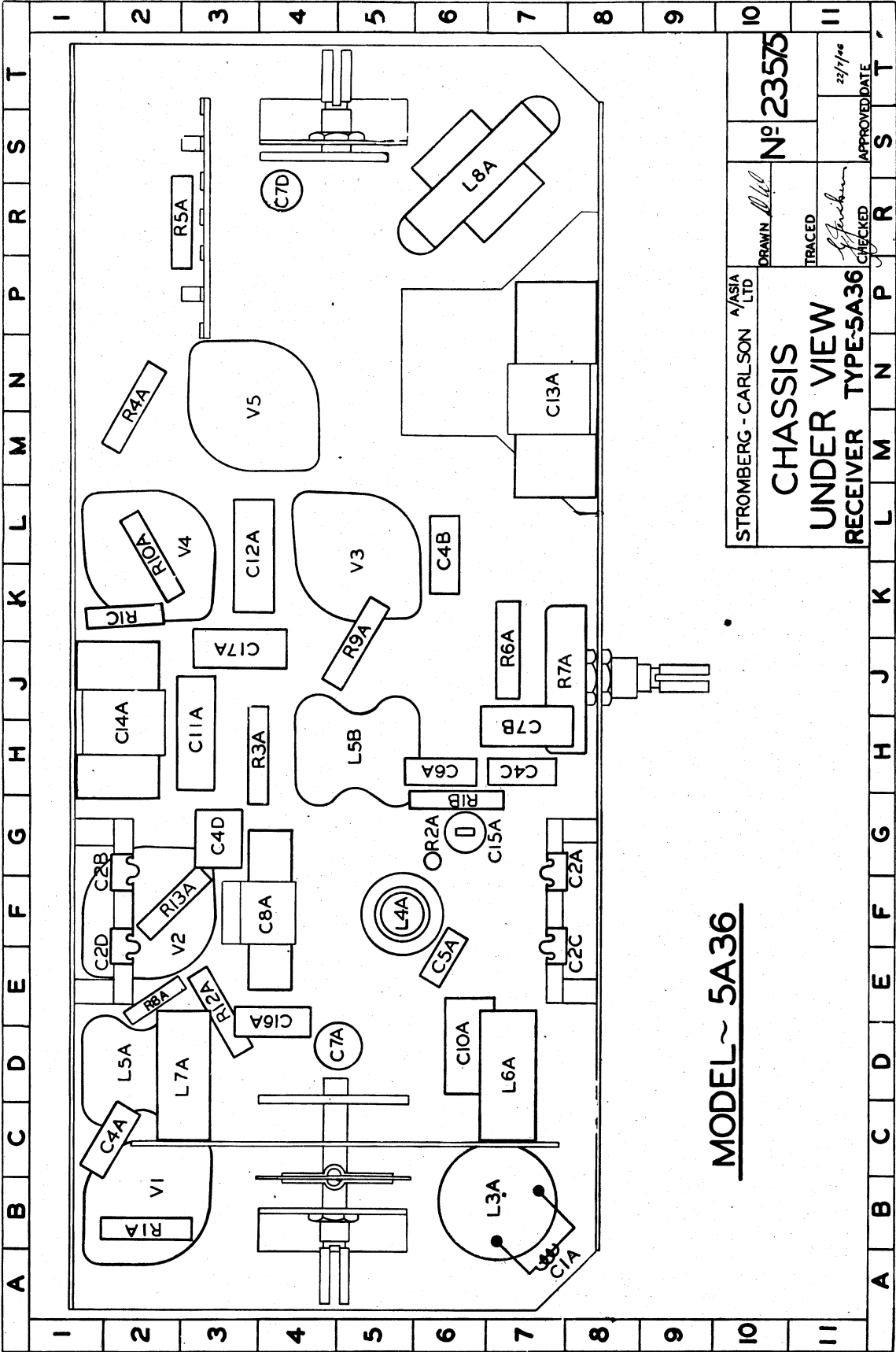
SERVICE MANUAL

Stromberg-Carlson Model 5A36 5-Valve Superheterodyne A. C. Dual Wave Receiver



This Service Manual is issued free of charge to all Authorised Stromberg-Carlson Dealers. Applications for additional copies should be made direct to the nearest Distributor.

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MODEL ~ 5A36

STROMBERG - CARLSON A/ASIA LTD
CHASSIS
UNDER VIEW
RECEIVER TYPE-5A36

DRAWN *W. M. M.*
 TRACED
 CHECKED *J. J. J.*
 APPROVED DATE 22/7/66

No 23575

APPROVED DATE

CIRCUIT CODE MODEL 5A36

Symbol	Description	Location	S/C P/No	Symbol	Description	Location	S/C P/No
	<u>Condensers</u>				<u>Resistor</u>		
C1A	Fixed 5mm F	B7	2515	R1A	50 000 Ω ± Watt	B2	2708
C2A	Variable Trimmer	G7	22458	R1B	"	G6	2708
C2B	"	G2		R1C	"	K2	2708
C2C	"	F7		R2A	20 000 1 Watt	G6	4782
C2D	"	E2		R3A	30 000 1 "	H3	4783
C3A	"	-	22579	R4A	300 1 "	M2	13406
C3B	"	-	22579	R5A	40 Ω 3 "	R2	22410
C4A	Fixed 100mmF ± 10%	C2	2582	R6A	10 Meg 1 "	J7	13440
C4B	"	L6	2582	R7A	½ Meg Volume Control	J8	22430
C4D	"	G3	2582	R8A	1.7 Meg ½ Watt	F2	22416
C4C	"	H7	2582	R9A	¼ Meg 1 "	J5	13428
C5A	Fixed 440 mf 2%	F6	21865	R10A	.6 " ½ "	L2	22417
C6A	" 250 " 10%	H6	2583	R11A	100 Ω ½ "	D3	13864
C7A	" 01 " 600	D4	4055	R12A	1 Meg ½ "	F2	13333
C7B	" " " "	H7	4055				
C7C	" " " "	R4	4053				
C8A	" .1 mf 400	F4	2578				
C9A	" 100 2%	D2	21795		<u>Miscellaneous</u>		
C9B	" " " "	-	21795	L1A	Power Transformer	-	22510
C9C	" " " "	H5	21795	L2A	Speaker " Rola 5000 Ω Type	-	22729
C9D	" " " "	-	21795	L3A	Aerial Coil BC	B7	22678
C10A	" .05 200	D6	2667	L4A	Osc. Coil BC	F5	22471
C11A	" " 400	H3	2579	L5A	I.F. Transformer 455 KC	D2	22451
C12A	" .005 600	H3	3077	L5B	" " " "	H4	22451
C13A	" 16mf Elect. EG 1081	N7	22650	L6A	Aerial S.W. Coil	D6	22664
C14A	" 10mf " "	H2	13791	L7A	Osc. S.W. " "	D3	22665
C15A	" 16mf " EE 10783	G6	13349	L8A	HT Choke - Rola Type 6-60	S6	22730
C16A	" .005 Mica	D3	21670	V1	Valve Type 6U8G	B2	13598
C17A	" 02 600	J3	3076	V2	" " " 6G8G	F2	5123
				V3	" " " 6B6G	K5	5123
				V4	" " " 6V6G	K2	19431
				V5	" " " 5Y3G	M3	3062
					Knobs (Small)	-	22469
					Knobs (Large)	-	22701
					Cabinet	-	22505
					Dial Scale	-	22676

5A36 Receiver

CIRCUIT CODE
No. 101

23587

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

I.F.: Turn the volume control and the wave range switch clockwise. Set the test oscillator to 455 K.C. and connect it to the grid of the 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 for maximum signal and lock in place.
- (e) Turn Receiver dial and Generator back to 1500 K.C. and carefully adjust broadcast Oscillator trimmer for resonance.
- (f) Adjust Aerial Trimmers for maximum signal.

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.

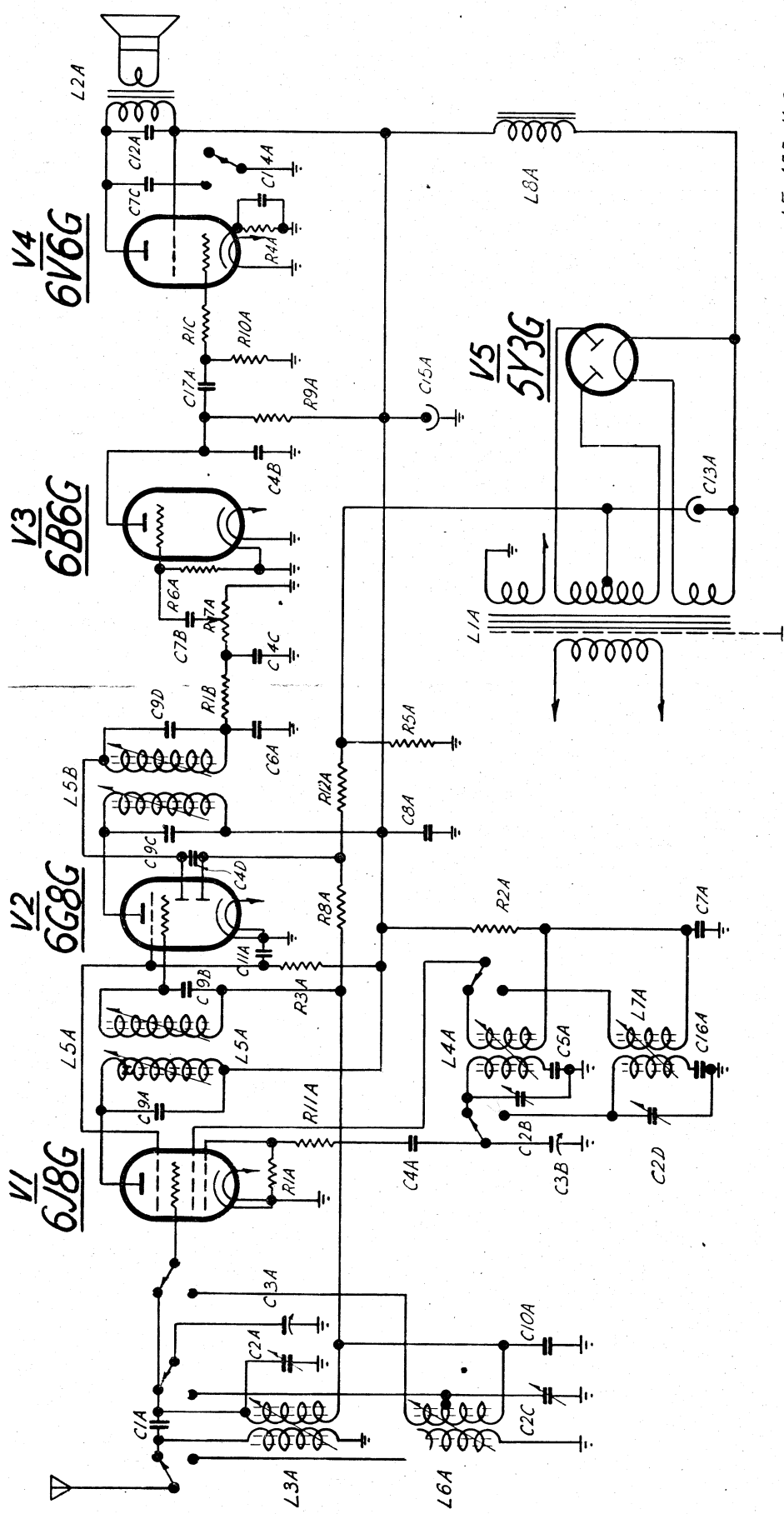
- (a) Turn Receiver dial to 16 megacycles, set Generator to same frequency, and roughly adjust Oscillator Trimmer to resonance.
- (b) Adjust Aerial Trimmer for maximum gain slightly rocking tuning dial during the process.
- (c) Turn Dial and Generator to 8 megacycles and adjust padding screw on Oscillator 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 8 megacycles.

NOTE—On the short wave band the Oscillator frequency is higher than the signal frequency, and therefore of the two signals tunable 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 1000 ohms per volt. All readings were measured between the points indicated, and chassis.

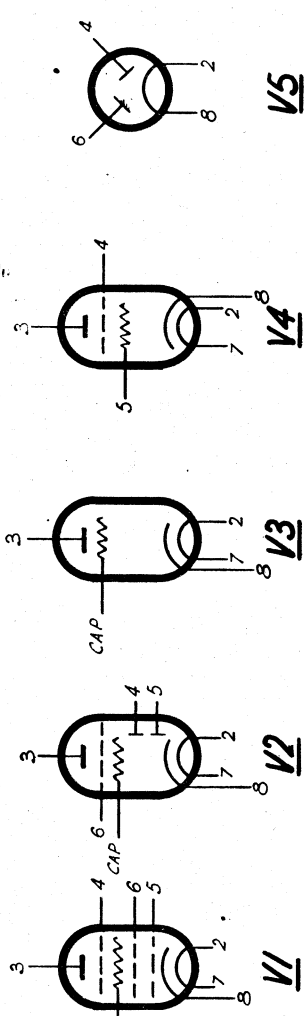
The location of all valves is shown on the front page.

Valve.	Function.	Plate.	Screen.	Cathode.	Heater.
6J8G	.. Mixer	250	85	—	6.3 VAC
6J8G	.. Osc. Sect.	80	—	—	—
6G8G	.. I.F. Det. AVC	250	85	—	6.3
6B6G	.. 1st Audio	100	—	—	6.3
6V6GT	.. Output..	240	250	13	6.3
5Y3G	.. Rectifier	300 } VAC 300 }	— } — }	—	280 V.



I.F. 455 K.C.

STROMBERG ~ CARLSON		ALASKA LTD.
CIRCUIT ~ 5A36		
DRAWN BY <i>J. Paulson</i>		No. 23586
TRACES BY <i>J. Paulson</i>		30-7-46
CHECKED BY <i>J. Paulson</i>		APPROVED DATE -



VALVE PIN NOS
UNDERNEATH
VIEW