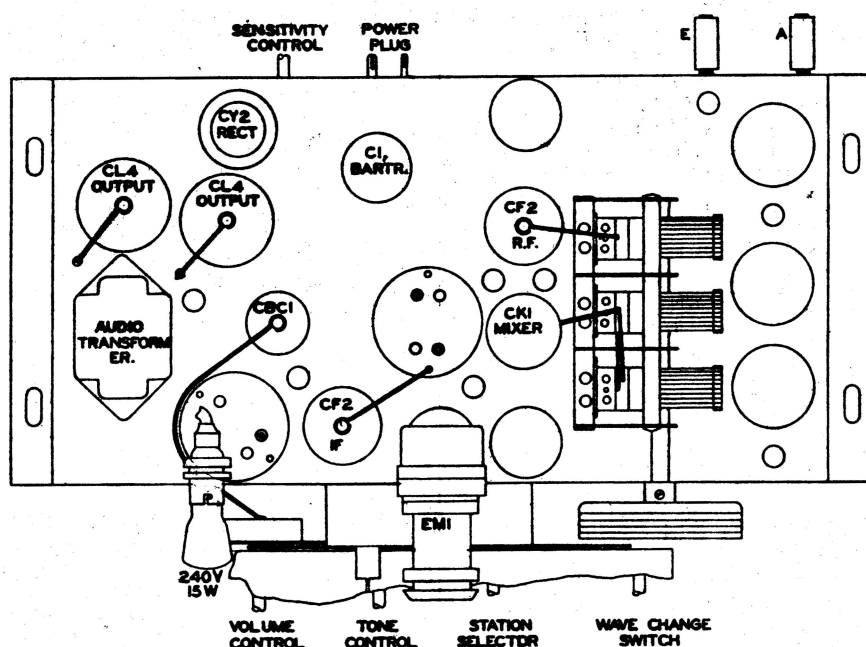


Stromberg-Carlson

STROMBERG-CARLSON SERVICE BULLETIN, No. 988

Stromberg-Carlson Model 988 Superheterodyne

AC-DC TRIPLE WAVE



Chassis of 988 Model.

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

Stromberg-Carlson (Australasia) Ltd. reserves the right to make changes in design details at any time without incurring any obligations to install same on radio receivers previously sold.

Page 6.

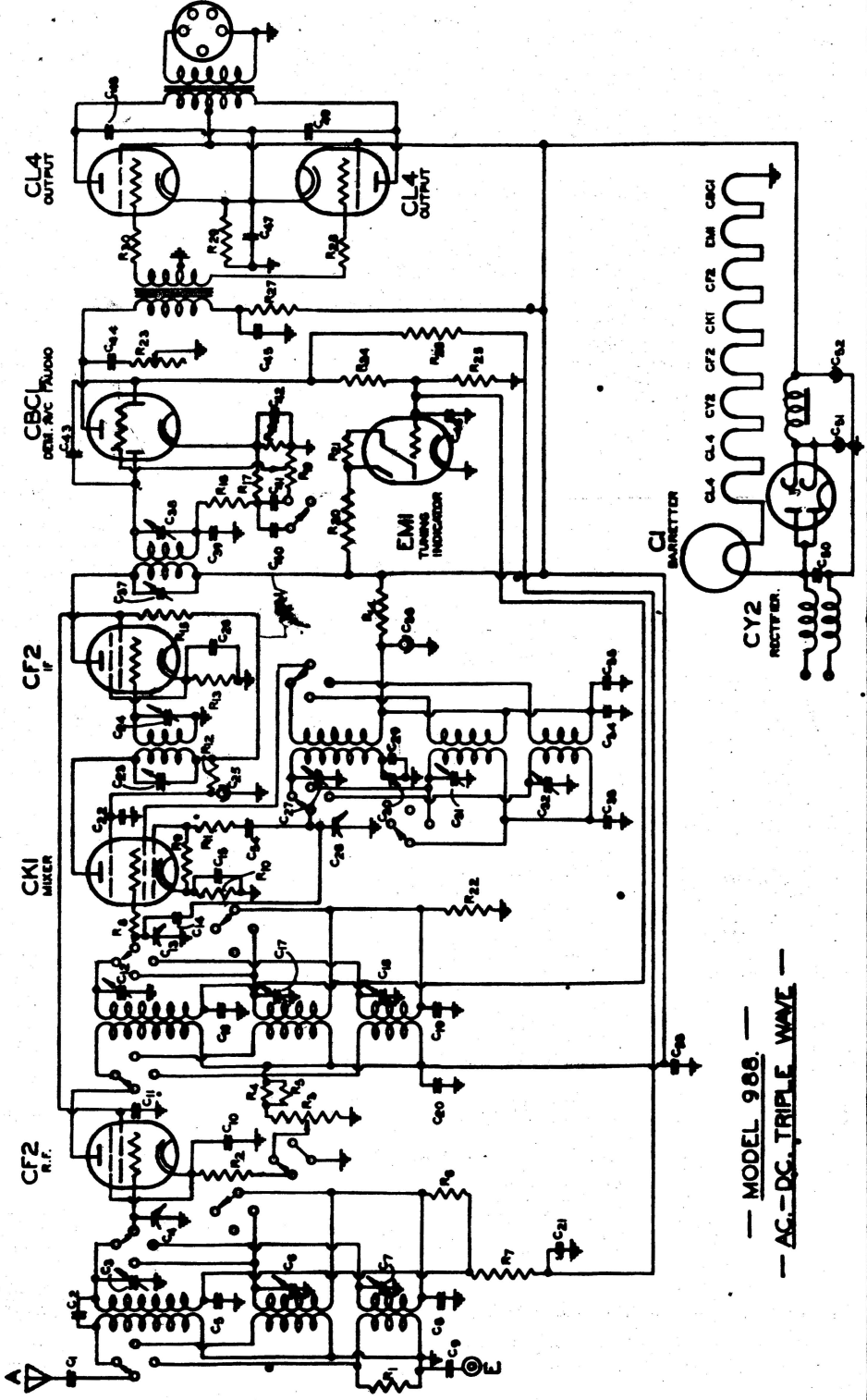
3. Repeat this procedure for the 21-55 metre band. Set the wave change switch to the centre position, the oscillator to 21 metres and the Receiver dial to the same wavelength. Adjust the 21-55 short wave oscillator trimmer for maximum output.
4. Turn the oscillator and Receiver dial both to 22 metres and adjust the short wave (21-55M.) RF and aerial trimmers.

MODIFICATION TO DESIGN

Modification	Result	Refer to Service Bulletin No. --

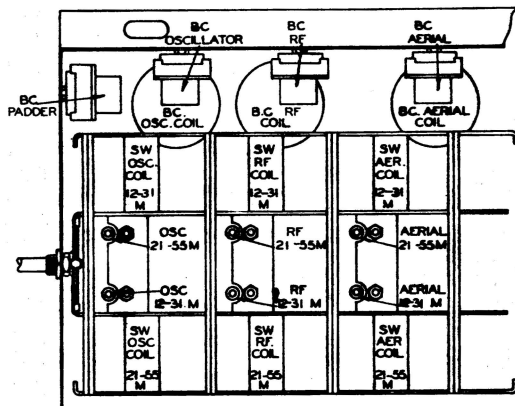
Modification	Result	Refer to Service Bulletin No. --

STROMBERG - CARLSON AUSTRALASIA LIMITED. SYDNEY, AUSTRALIA.		DRAWING NO. 2110.
CHANGES		DRAWN <i>B. Montan</i>
		EXAMINED <i>B. P. O.</i>
		APPROVED <i>[Signature]</i>
		DATE 12-2-38



— MODEL 988 —
— AC-DC TRIPLE WAVE —

LOCATION OF COILS & TRIMMERS BENEATH CHASSIS



IF Alignment: Set the oscillator to 392 KC, and connect to the grid of the CK1 valve. Turn the volume control full on, the tone control to the right, and the wave change switch to the Broadcast band (extreme anti-clockwise position). Adjust the four trimmers on the two IF transformers for maximum gain. Sensitivity should be approximately 100 microvolts.

Broadcast Alignment:

1. Connect oscillator to aerial terminal, adjust to 1500 KC. Turn the Receiver dial to 1500 KC and adjust Broadcast oscillator trimmer till maximum output is obtained.
2. Set oscillator to 1400 KC, and Receiver dial to same frequency. Adjust broadcast RF and aerial trimmers.
3. Set oscillator to 600 KC, and Receiver dial to same frequency. Adjust broadcast padder till the oscillator signal is heard. Then, while rotating the gang to and fro about 600 KC, complete the padder adjustment for maximum output.

Repeat the three operations.

Short Wave Alignment:

Note: On the short wave bands the oscillator operates at a lower frequency than the incoming station and hence the image will be found at the high frequency side of the station.

1. Turn the wave change switch to the extreme clockwise position for the 12-31 metre band and set the oscillator on 12 metres, and the Receiver dial pointer to the same wavelength. Adjust the 12-31 metre short wave oscillator trimmer for maximum output.
2. Set the oscillator to 13 metres, tune this in on the Receiver and adjust the 12-31 M short wave RF and aerial trimmers.
This completes the alignment of the 12-31 metre band because the padding condenser is non adjustable.

MODEL 988 CIRCUIT CODE

CONDENSERS

C1	.01 uF	
C2	4 uF	
C3	Air Trimmer	
C4	3 Gang Type F	
C5	.1 uF	
C6	Air Trimmer	
C7	Air Trimmer	
C8	.003 uF	
C9	.01 uF	
C10	.1 uF	
C11	.1 uF	
C12	Air Trimmer	
C13	3 Gang Type F	
C14	2 uF	
C15	.1 uF	
C16	.1 uF	
C17	Air Trimmer	
C18	Air Trimmer	
C19	.003 uF	
C20	.01 uF	
C21	.01 uF	
C22	.1 uF	
C23	Air Trimmer IF	
C24	Air Trimmer IF	
C25	8 uF Electrolytic	
C26	.1 uF	
C27	Air Trimmer	
C28	3 Gang Type F	
C29	500 uF	
C30	Air Trimmer (Padder)	
C31	Air Trimmer	
C32	Air Trimmer	
C33	.004 uF	
C34	.1 uF	
C35	.01 uF	
C36	8 uF Electrolytic	
C37	Air Trimmer IF	
C38	Air Trimmer IF	
C39	100 uF	
C40	.01 uF	
C41	.00025 uF	
C42	10 uF Elect.	
C43	100 uF	
C44	.02 uF	
C45	4 uF Electrolytic	
C46	.1 uF	
C47	25 uF Electrolytic	
C48	.005 uF	
C49	.005 uF	
C50	.02 uF	
C51	16 uF Electrolytic	
C52	16 uF Electrolytic	
C53	.5 uF	
C54	100 uF	

RESISTORS

R1	500 W	
R2	300 W	
R3	4000 W (Sensitivity)	
R4	.1 Mw	R28 2000 W
R5	.1 Mw	R29 200 W
R6	.5 Mw	R30 2000 W
R7	.1 Mw	
R8	50 W.	
R9	.05 Mw	
R10	300 W	
R11	50 W	
R12	.05 Mw	
R13	1000 W	
R14	.05 Mw	
R15	.2 Mw	
R16	.2 Mw	
R17	.2 Mw	
R18	2000 W	
R19	1 Mw (Volume Cont.)	
R20	.05 Mw	
R21	1 Mw	
R22	.5 Mw	
R23	1 Mw (Tone Control)	
R24	.5 Mw	
R25	.5 Mw	
R26	1 Mw	
R27	.01 Mw	

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

Page 4.

OPERATION: Looking at the front of the chassis and reading from left to right the four controls are as follows:-
Volume -- Tone -- Station Selector -- Wave Change Switch.

Wave Change Switch: This has three positions. The extreme left (anti-clockwise) position is the broadcast band 1500 to 550 KC's, the centre position a short wave band 21 to 55 metres and the right hand position a short wave band 12 to 31 metres.

Tone Control: Turn the knob clockwise to increase the high frequency response of the Receiver.

If static or background noise is bad, turn the control as far as it will go in an anti-clockwise direction. This movement operates a switch which greatly reduces interference and improves clarity.

Sensitivity Control: This is located at the back of the chassis. Its purpose is to reduce noise picked up when tuning the receiver between stations, and to decrease interference from powerful local stations should they prove troublesome.

VALVES AND VOLTAGES

The drawing on page 1 shows the location of the valves.

The following voltages were measured with a 1000 ohm per volt meter, and a line voltage of 240 A.C.

VALVE		PLATE	SCREEN	CATHODE
CF2	RF	245	90	1.5 - 5*
CK1	Mixer	245	70	2
	Octode	90	--	--
	Triode	245	90	2.5
CF2	IF	205	--	5.5
CBC1	Dem. A.V.C. 1st Audio	240	245	15
CL4+CL4	Output			

ALIGNMENT INSTRUCTIONS

Refer to drawings of chassis layout and coil unit for the location of the trimming adjustments. There are two on each Intermediate Frequency transformer, four on the sides of the chassis, and six on the coil assembly. No attempt should be made to adjust these unless a competent service man equipped with a calibrated oscillator and output meter is available.

* Varies with Sensitivity Control