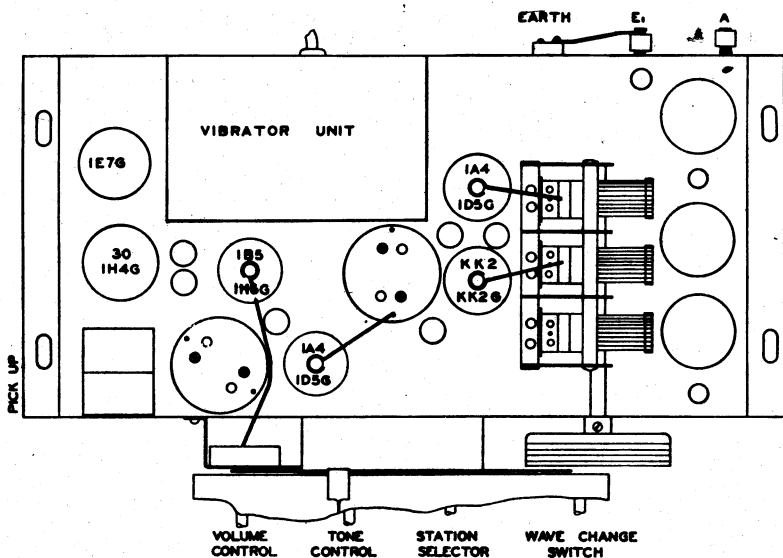


# Stromberg - Carlson

**STROMBERG - CARLSON**  
**SERVICE BULLETIN, No. 38**

## Stromberg-Carlson Model 38 Superheterodyne

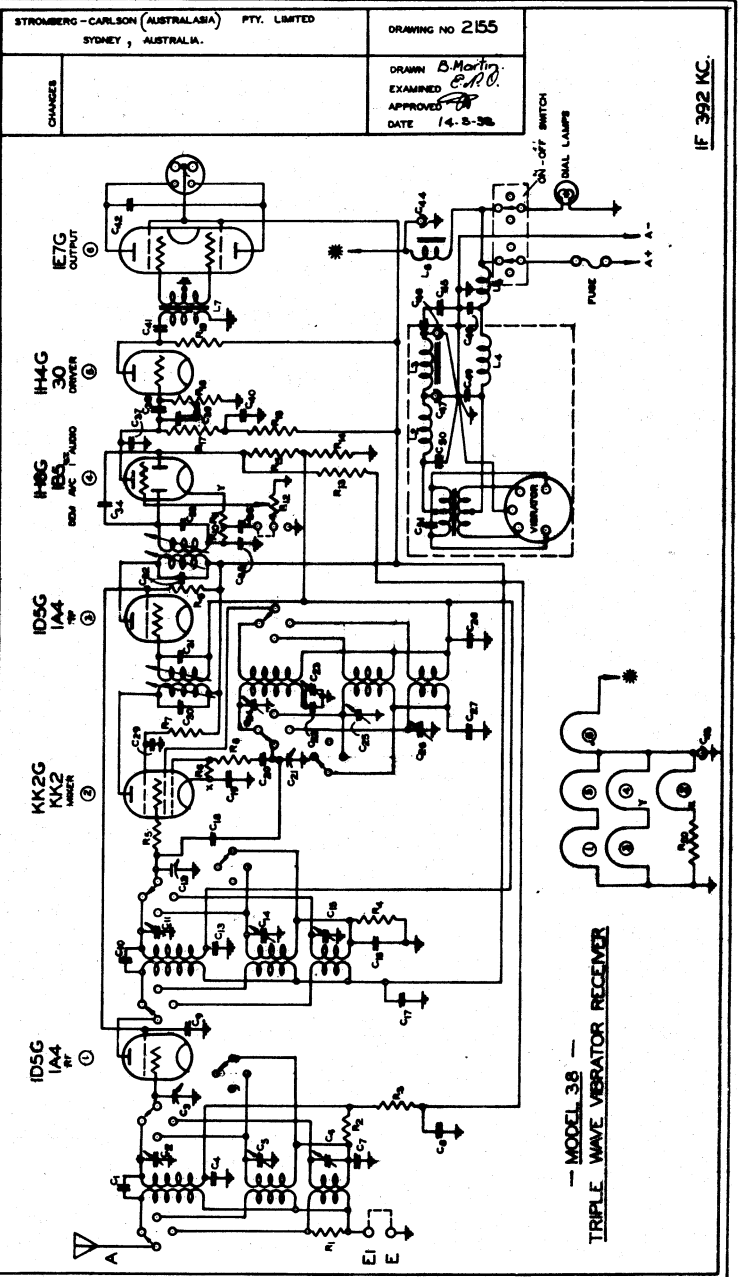
**VIBRATOR TRIPLE WAVE**



### Chassis of Model 38

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**IMPORTANT:** To prevent excessive hum and vibration the Vibrator box must float freely on its rubbers. In transit, the box is held firmly by a block of wood, a steel rod and wing nut. Remove these when set is installed but replace for transporting. See instructions attached to the receiver chassis.

**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.

**Battery Switch:** This is located on the end of the dial.

Position 1 (anti-clockwise) Receiver off.  
" 2 (Middle) Receiver on. Dial lights on.  
" 3 (clockwise) Receiver on. Dial lights off.

To save unnecessary "A" Battery drain use position 2 to find the station then turn to position 3.

**Pick-up Jacks:** These are located at the left hand end of the chassis. To use a pick-up, remove the metal bar between the centre and back jacks and insert the pick-up leads in the centre and front jacks. The tone and volume controls both operate the pick-up. Replace the shorting bar in its original position when the radio is to be used again.

### VALVES AND VOLTAGES

The location of all valves is shown on page 1. The grid bias is obtained from the series parallel arrangement of filaments.

**DON'T REMOVE VALVES WHILE SET IS SWITCHED ON.**

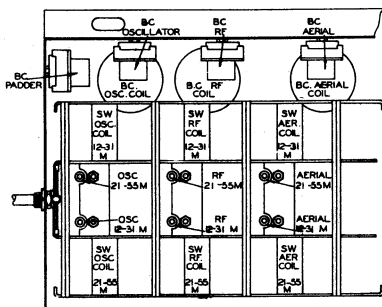
VALVE		PLATE	SCREEN
1D5G - 1A4	Rf	135	60
KK2G - KK2	Octode Section	135	60
	Triode "	135	--
1D5G - 1A4	IF	135	60
1H6G - 1B5	Dem. AVC 1st Audio	80	--
1H4G - 30	Driver	110	--
1E7G - --	Output	135	135

### 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 .

#### LOCATION OF COILS & TRIMMERS BENEATH CHASSIS



**IF Alignment:** Set the oscillator to 392 KC and connect to the grid of the KK2 valve. Turn the volume and tone controls full on, 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.

#### 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 metre short wave RF and aerial trimmers.  
This completes the alignment of the 12-31 metre band because the padding condenser is non-adjustable.

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.

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MODIFICATION TO DESIGN

Modification      Result      Refer to Service Bulletin No. -

<u>Modification</u>	<u>Result</u>	<u>Refer to Service Bulletin No. -</u>