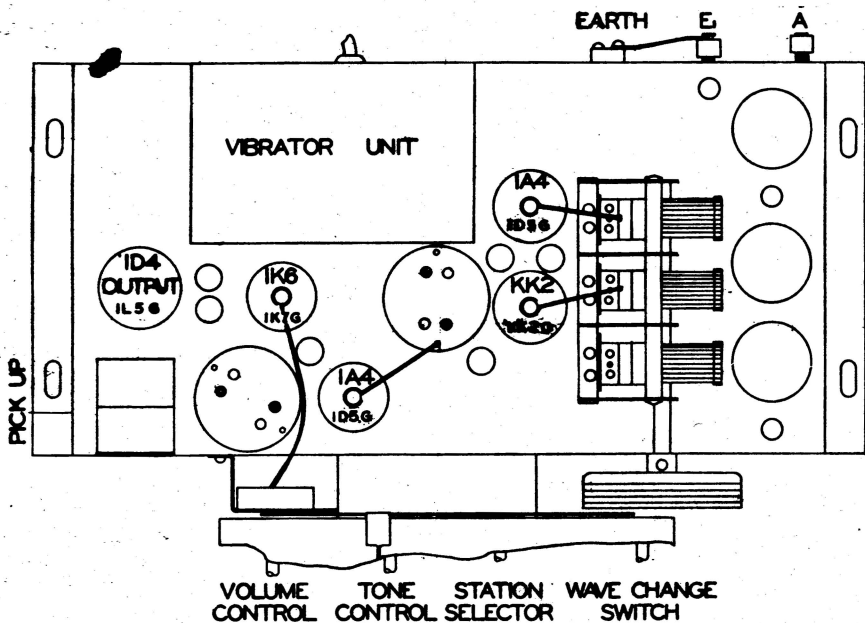


Stromberg-Carlson

STROMBERG-CARLSON SERVICE BULLETIN, No. 28

Stromberg-Carlson Model 28 Superheterodyne

DUAL WAVE VIBRATOR RECEIVER



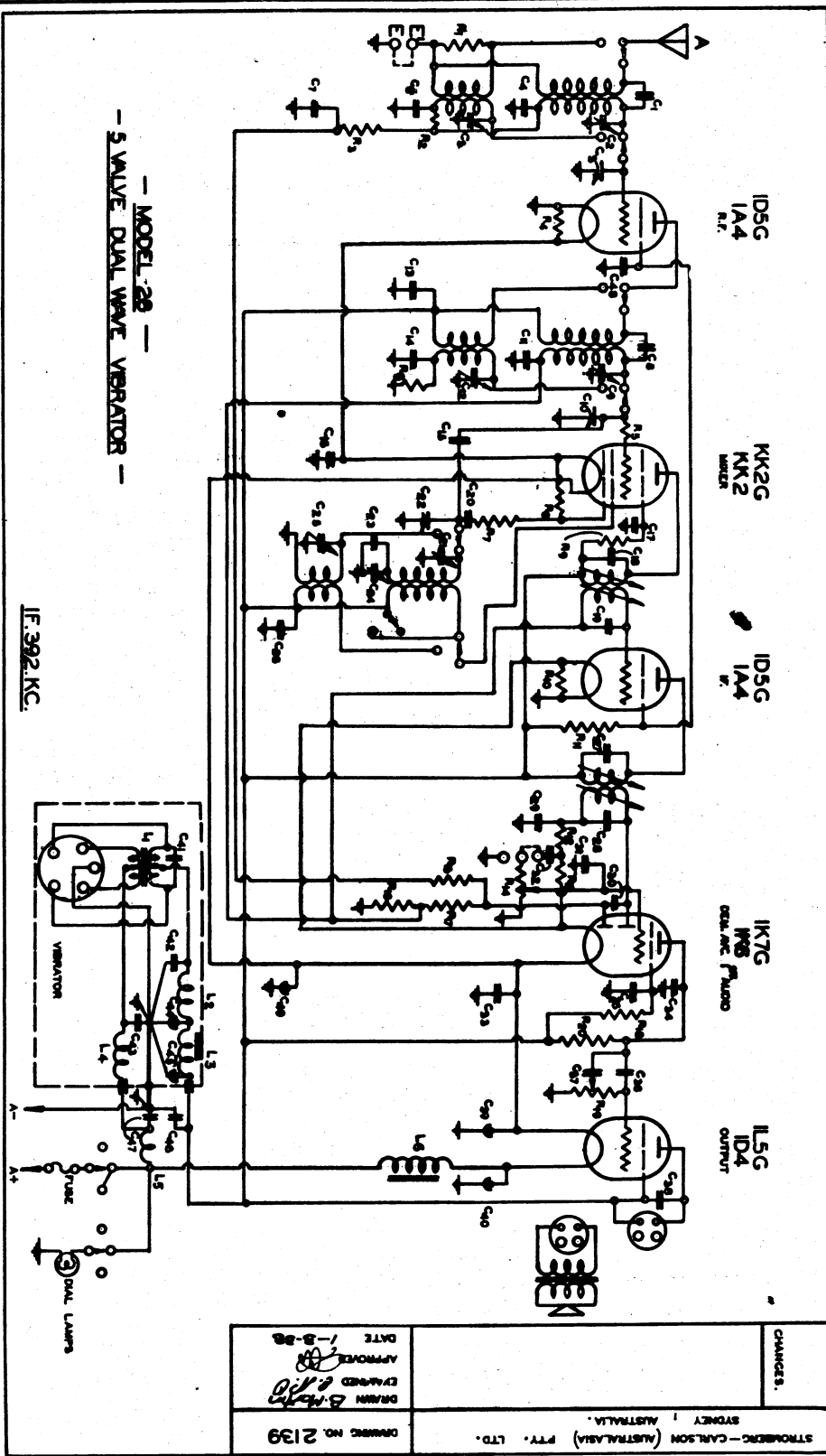
Chassis of Model 28

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MODIFICATION TO DESIGN

Modification	Result	Refer to Service Bulletin No. --
1.	Add one turn to the primary winding of the Short-wave Oscillator Coil.	
2.	In cases where the D.C. voltage is less than 135 it is necessary to replace the Vibrator Transformer.	
3.	Replace the Intermediate Transformers with the later type of iron core Transformer.	
4.	Reduce the value of the filament shunt across the R.F. 1A4 to approximately 24 ohms in order to develop a full 2 volts across the KK2 filament.	



[illegible]

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

Page 4.

IMPORTANT: To prevent excessive vibration and hum the vibrator box must float freely on its rubbers. In transit the box is held rigid by a block of wood, a steel rod, and wing nut. Remove these when the set is installed. 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. The Battery Switch is located on the left end of the cabinet.

Wave Change Switch: This has two positions. The extreme left (anti-clockwise) position is the broadcast band 1500 to 550 KC's, and the right hand position a short wave band 13 to 38 metres.

Battery Switch:

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 station then turn switch 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 bias for the valves is obtained from the series parallel arrangement of filaments.

DON'T REMOVE VALVES WHILE SET IS SWITCHED ON.

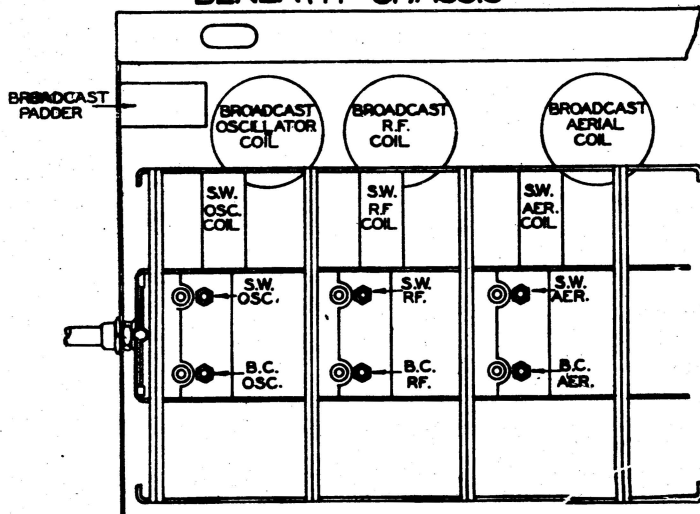
VALVE	PLATE	SCREEN
1D5G - 1A4 RF	140	60
KK2G - KK2 Octode Section	140	60
Triode Section	140	---
1D5G - 1A4 IF	140	60
1K7G - 1K6 Dem.A.V.C. 1st Audio	80	
1L5G - 1D4 Output	140	140

Series fed through 1 meg. from Max HT.

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 13-38 metre band and set the oscillator on 13 metres, and the Receiver dial pointer to the same wavelength. Adjust the short wave oscillator trimmer for maximum output.
2. Set the oscillator to 14 metres, tune this in on the Receiver and adjust the short wave RF and aerial trimmers.
This completes the alignment of the Short Wave band because the padding condenser is non adjustable.