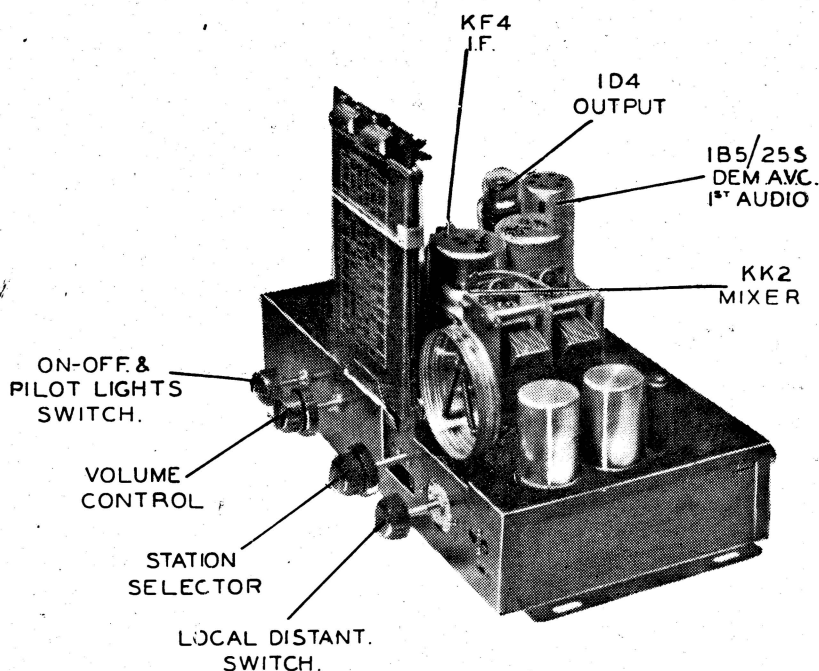


Stromberg - Carlson

STROMBERG - CARLSON SERVICE BULLETIN, No. 407

Stromberg-Carlson Model 407 Superheterodyne

FOUR-VALVE, BATTERY-OPERATED



Chassis of Model 407.

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.

SERVICE BULLETIN, No. 407 (Continued)**(b) Earth.**

The chassis should be connected to earth by means of an insulated wire attached to a water pipe by an approved clamp. It is preferable to connect the earth lead to the last section of the pipe where it enters the ground, thus avoiding the high resistance contacts at the joints. Should a water system not be available, an efficient earth may be obtained by driving a metal pipe or burying about four square feet of metal sheeting in moist earth; the connection to the metal should preferably be soldered.

4. OPERATION:**(a) Battery Switch.**

A three-position operating switch is used. When turned fully to the left, the receiver is switched off; both the "A" and "B" battery supplies being disconnected. When turned to centre position the receiver is ready to operate, and a pilot light is switched on. After tuning to the required station, the switch should then be turned to the right position. This will extinguish the pilot light only, so reducing drain from the battery, and the set will operate in the normal manner.

(b) Local-Distance Switch.

This has two positions: The left-hand position is for reception of local stations; and the right, for long-distance reception.

5. VOLTAGES:

Valve.	Plate.	Screen.	Bias.
KK2 Pentode	130	—	—
Triode	130	—	—
KF4 I.F.	130	130	—
1B5-25S	60	—	—
1D4 Output	125	130	-5

The KK2 screen is series fed from maximum high tension through 50,000 ohms.

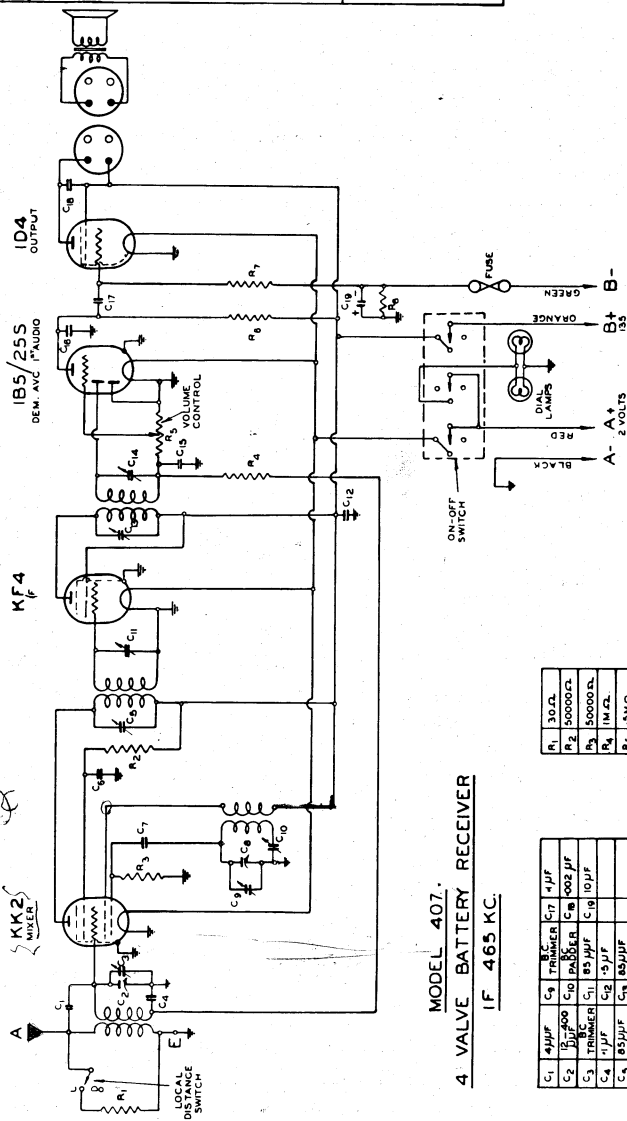
N.B.—BEFORE LEAVING A STROMBERG-CARLSON RADIO RECEIVER IN A CUSTOMER'S HOME, SEE THAT EVERYBODY WHO IS LIKELY TO HANDLE THE RECEIVER FULLY UNDERSTANDS ITS OPERATION. BY SO DOING MANY UNNECESSARY SERVICE CALLS WILL BE AVOIDED.

STROMBERG-CARLSON (AUSTRALASIA) LIMITED.
SYDNEY AUSTRALIA.

DRAWING N° 1427.

CHANGES

DRAWN *B. Martin*.
EXAMINED
APPROVED *[Signature]*
DATE 5-4-37.



MODEL 407.
4 VALVE BATTERY RECEIVER
IF 465 KC.

R ₁	30 Ω
R ₂	50000 Ω
R ₃	50000 Ω
R ₄	1M Ω
R ₅	0.5M Ω
R ₆	0.2M Ω
R ₇	0.5M Ω
R ₈	400 Ω

C ₁	4 μF
C ₂	10 μF
C ₃	10 μF
C ₄	1 μF
C ₅	85 μF
C ₆	85 μF
C ₇	100 μF
C ₈	100 μF
C ₉	100 μF
C ₁₀	100 μF
C ₁₁	100 μF
C ₁₂	100 μF
C ₁₃	100 μF
C ₁₄	100 μF
C ₁₅	100 μF
C ₁₆	100 μF
C ₁₇	100 μF
C ₁₈	100 μF
C ₁₉	100 μF

SERVICE BULLETIN, No. 407 (Continued)

Stromberg-Carlson Model 407

Superheterodyne

FOUR-VALVE, BATTERY-OPERATED

1. GENERAL DESCRIPTION OF RECEIVER.

This receiver is a 4-valve battery-operated superheterodyne with Automatic Volume Control, designed for use on the broadcast band from 1500 to 550 k.c. The receiver has been designed to obtain the maximum in sensitivity, selectivity and quality consistent with a minimum consumption of both "A" and "B" batteries.

The tuning adjustments on the gang capacitor (variable tuning condenser) and the trimmer capacitors on the Intermediate Frequency Transformers (tuned to 465 k.c.) are adjusted and sealed at the factory at the time of calibration. These adjustments should on no account be touched, or the seals broken, unless a specially calibrated oscillator and indicating instrument are to hand whereby such adjustments can be successfully carried out. In any repairs or adjustments the above remarks in regard to the gang capacitor and intermediate transformers should be carefully noted.

2. BATTERIES.

- (i.) "A" Battery—This is a 2-volt storage battery or equivalent 2-volt battery, having a (recommended) capacity of at least 80 ampere-hours. The "A" battery drain is 0.47 ampere. The "B" battery consumption averaging about 11 m.a.
- (ii.) "B" Batteries—These comprise three heavy-duty, super, or (recommended) super-service 45-volt batteries.

To connect the battery leads correctly, reference should be made to the designation tabs on the leads, and to the colour code as shown on the circuit diagram on Page 2.

The "A" battery and the three "B" batteries may be placed on the lower shelf of the speaker compartment of the cabinet.

3. INSTALLATION INSTRUCTIONS:

(a) Aerial.

The sensitivity of this model is such that an aerial placed along the picture moulding in a room, or beneath the carpet, will prove satisfactory. Care should be taken to place all such indoor aerials as far away as possible from electric light or power conduits, and, in particular, clear of all unshielded flexible leads, since these latter are prolific radiators of undesirable electrical impulses.

An outdoor aerial is the most efficient. The length of this aerial should be from 30 to 50 feet. In noisy areas (due to electrical interference) the aerial should be erected as far as possible from, and at right angles to, any electric power or light mains.