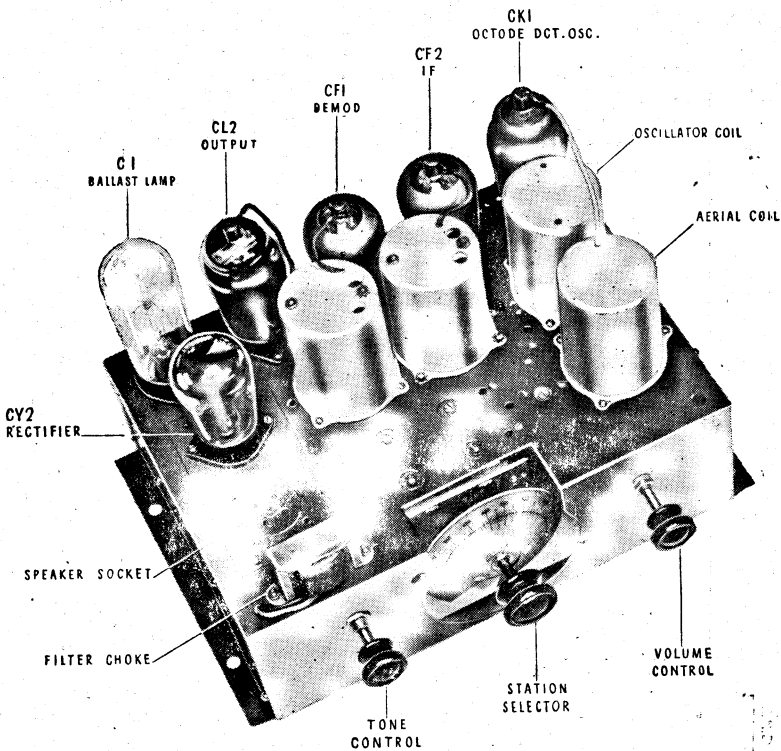


Stromberg-Carlson

STROMBERG-CARLSON
SERVICE BULLETIN No. 55A

Stromberg-Carlson Model 55A UNIVERSAL A.C.-D.C. Superheterodyne

ALL-ELECTRIC, FOUR VALVES AND RECTIFIER



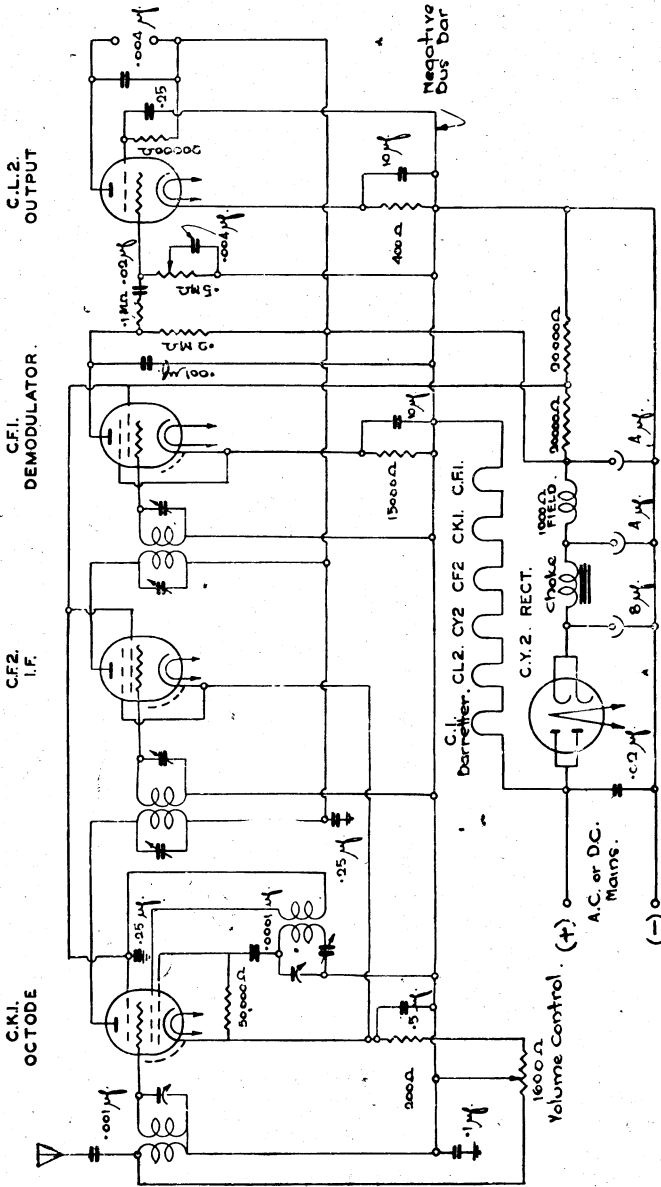
Chassis of Model 55A

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CHANGES

DRAWN *20/3/35*
 EXAMINED *[Signature]*
 APPROVED
 MGN. DIRECTOR
 DATE 18. 2. 35



MODEL 55A

A.C.-D.C. RADIO RECEIVER.

SERVICE BULLETIN No. 55A (Continued)

3. VALVES:

All Receivers leaving the factory are equipped with valves inserted into the sockets. If for any reason it becomes necessary to remove the valves, care should be taken to see that each one is replaced in the socket from which it was taken. The photograph of the chassis on page 1 shows the type and function of the valves and their exact location.

Function of Valve.	Type of Valve.
Octode Oscillator-Mixer	CK1
I.F.	CF2
Detector	CF1
Power Pentode	CL2
Rectifier	CY1
"Barretter" Ballast Lamp	C1

4. COMPONENTS:

The following list of components are given to facilitate the servicing of the receiver and as a guide to replacement.

The numbers refer to position of the components on the assembly panel.

- | | |
|------------------------|-------------------------|
| 1. 50,000 microfarad. | 9. .0001 ohm. |
| 2. .1 ohm. | 10. 100,000 ohms. |
| 3. 200 ohms. | 11. .02 microfarad. |
| 4. 25 microfarad. | 12. .004 ohm. |
| 5. 15,000 ohms. | 13. 200,000 microfarad. |
| 6. 20,000 ohms. | 14. .02 microfarad. |
| 7. 20,00 ohms. | 15. 400-2 |
| 8. 200,000 microfarad. | 16. 25 microfarad. |

Capacitor Block: 4 red leads, 0.25 microfarad.
1 yellow lead, 0.5 microfarad.

5. VOLTAGES:

Valve.	Plate.	Screen.	Cathode.
Octode Det.-Osc. CK1	50	200	1.5 to 7
I.F. CF2	50	200	1.5 to 7
2nd Det. CF1	50	80	2
Output CL2	150	180	17

All voltages are measured from the above designated valve prongs to the common negative bus, with volume control at full "on" position, except those marked with an asterisk, which are measured with the volume control at the "off" position.

The voltmeter used should have a resistance of 1000 ohms per volt.

Note.—All screens are series fed through resistances so that indicated voltage will vary slightly when different types of meters are used to measure the voltage.

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.

SERVICE BULLETIN, No. 55A—(Continued)

Stromberg-Carlson Model 55A

UNIVERSAL A.C.-D.C.

Superheterodyne

ALL-ELECTRIC, FOUR VALVES AND RECTIFIER

1. GENERAL DESCRIPTION OF RECEIVER:

The Universal A.C.-D.C. Model is particularly adapted to areas where the electric supply is direct current.

A number of such areas are at present in the process of conversion to an alternating current supply. In these circumstances the model 55A Receiver is ideal, in that it operates with equal efficiency on either A.C. or D.C. supplies.

Philip's new series of A.C.-D.C. Valves are used, which have been specially designed for series operation on 200 to 260 volt lines.

The use of the current regulating tube, the "Barretter" replaces the ballast resistor of earlier models, and allows the receiver to be used on lines in which the voltage varies from 160 to 260 volts without any voltage taps being changed.

2. INSTALLATION INSTRUCTIONS:

(a) Safety.

Every precaution has been taken to render the 55A A.C.-D.C. Receiver perfectly safe. Nevertheless, due care should be exercised in the installation of this type of receiver.

Do not make any adjustment to the receiver, aerial or any lead connected thereto, without first of all disconnecting the receiver from the supply mains.

As a further protection, the 55A chassis has been fitted with a two-pin plug, which—on the removal of the protective back on the cabinet—opens both of the power leads to the chassis.

(b) 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.

CAUTION.—When an outdoor aerial is installed on any A.C.-D.C. receiver, care should be taken to place the aerial well clear of buildings, and to particularly avoid any possibility of bodily contact being made between the aerial and any metal roofing.

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In the Stromberg-Carlson A.C.-D.C. Model the aerial is normally protected by two specially selected condensers. Only on the very remote possibility of the **two condensers** breaking down would there be any danger from contact with the aerial circuit.

When connected to D.C., it is imperative that the **RED** lead be connected to the **POSITIVE**, and the **BLACK** to the **NEGATIVE** of the supply mains. If reversed the filaments will light, but the receiver will not operate.

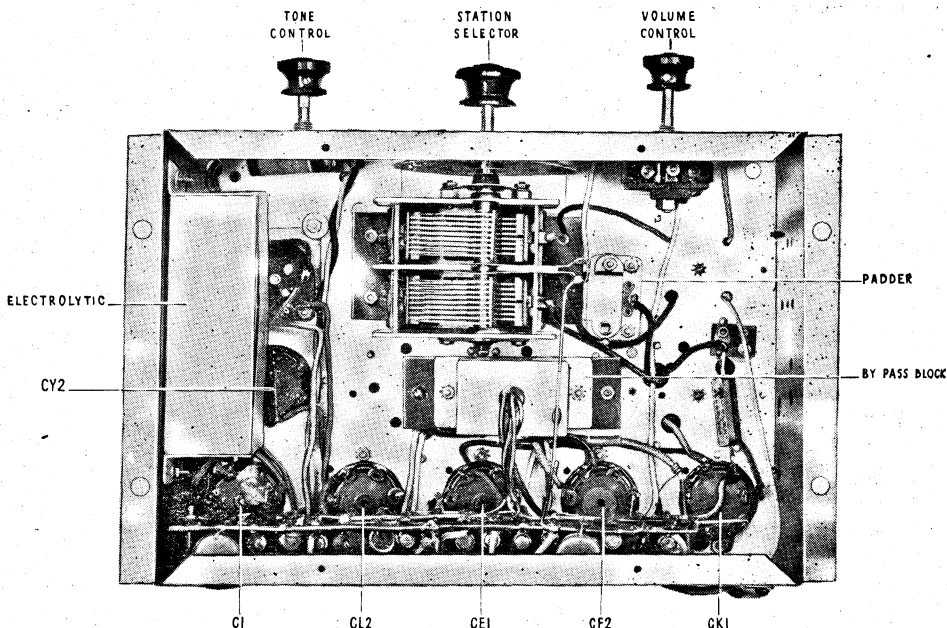
When connected to A.C. it is preferable for the **RED** lead to be connected to the **ACTIVE**, and the **BLACK** to the **NEUTRAL** of the supply mains.

Note.—To ascertain **ACTIVE**, check with test lamp (240 volt) between line and earth. The **ACTIVE** will be indicated by the lamp lighting. No light will be observed between **NEUTRAL** and earth.

When making any adjustment, see that the **power plug** is completely removed from the socket of the supply source.

(d) Trimmer Adjustments.

The tuning adjustments on the gang capacitor (the variable gang tuning condenser) and the trimmer capacitors on the Intermediate Frequency Transformers are adjusted at the factory at the time of calibration. These adjustments should on no account be touched unless a specially calibrated oscillator and indicating instrument are available 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.



Under Chassis View of Model 55A