



RCA VICTOR

MODEL 8BX6

AC-DC-Battery Portable

Chassis No. RC-1040C

Mfr. No. 274

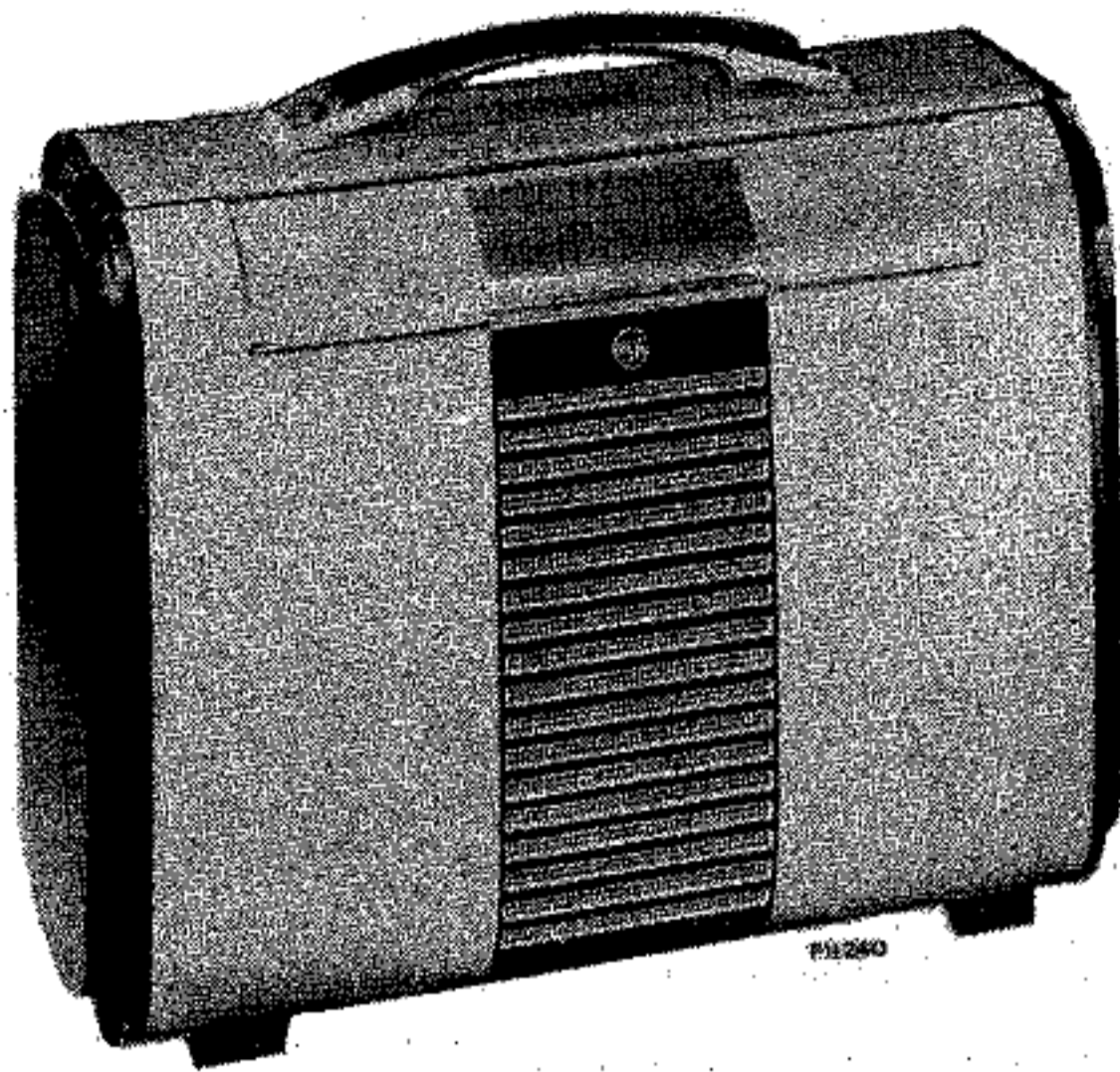
SERVICE DATA

-1948 No. 2-

RADIO CORPORATION OF AMERICA

RCA VICTOR DIVISION

CAMDEN, N. J., U. S. A.



Model 8BX6

Specifications

Frequency Range 540-1,600 kc

Intermediate Frequency 455 kc

Power Supply Rating

110 to 125 volts, AC 50 or 60 cycles, or DC..... 18 watts

Batteries required

One RCA Battery Pack VS019 or equivalent

Tube Complement

- (1) RCA—1T4 R.F.
- (2) RCA—1R5 Converter
- (3) RCA—1T4 I.F.-Amplifier
- (4) RCA—1U5 2nd Det. AVC. & A.F.-Amplifier
- (5) RCA—3V4 Power Output
- (6) RCA—117Z3 Rectifier

Current Consumption

Battery Operation..... "A" 50 ma., "B" 13 ma.
(Average life of RCA VS019 Battery
125 hrs. intermittent service.)

Total Rect. Current (117 volt, 60 cycle) 61 ma.

Power Output

Undistorted 150 watt
Maximum 275 watt

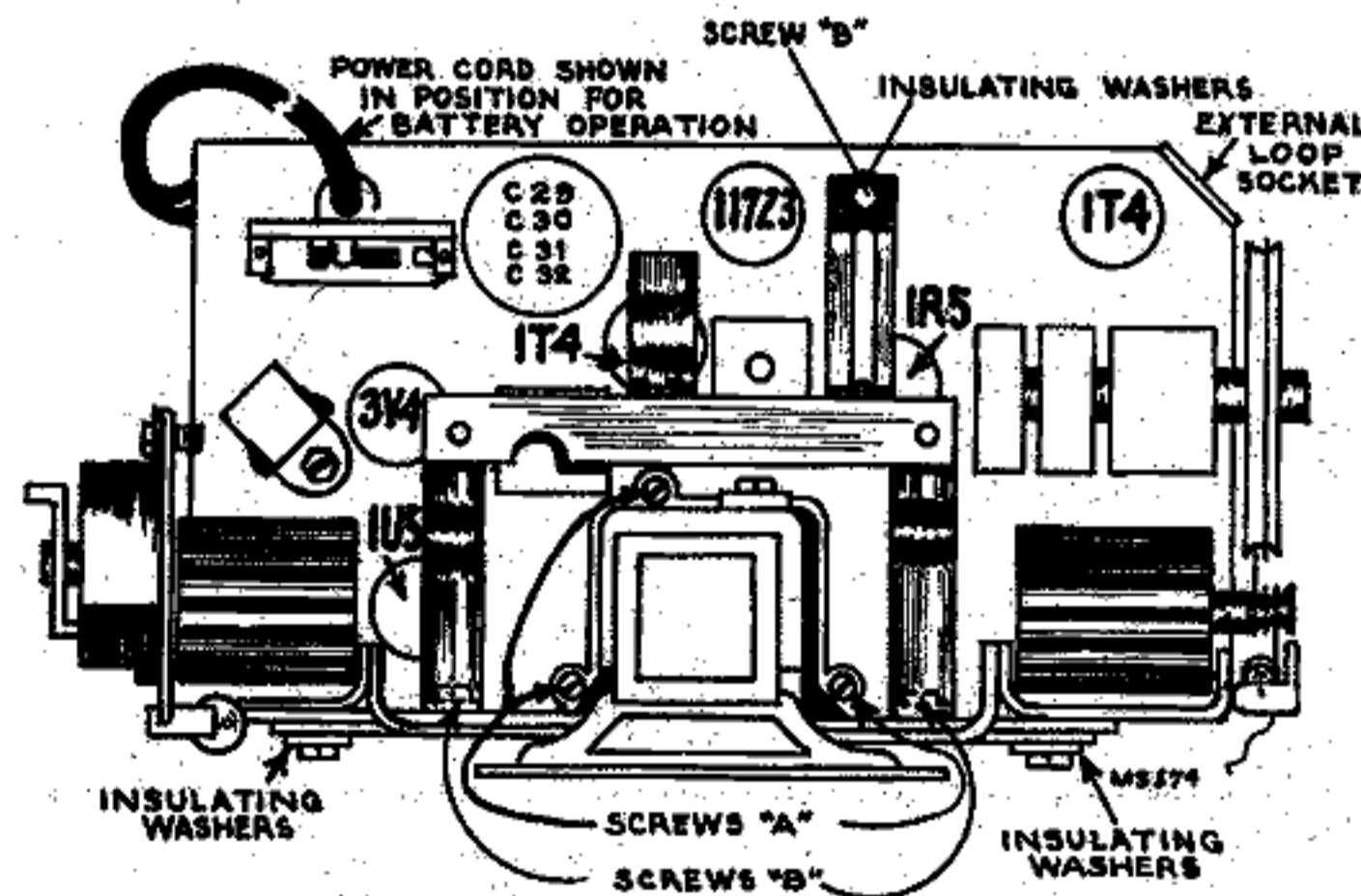
Loudspeaker 4 in. P.M. 3.4 ohms at 400 cycles

Cabinet Dimensions

Height... 13¼ in. Width... 9½ in. Depth... 5½ in.

CAUTION.—

1. Do not remove any tubes from the chassis with the set operating and the plug connected to the power line. Damage to tubes may result.
2. When cleaning the aluminum portion of the case use soap and water or cleaning fluid. Do not use abrasive cleansers.



Insulating Washers:

The mounting bracket and dial frame are insulated from the chassis with insulating washers. This serves to insulate the case from the chassis. In servicing make certain that these washers are in place and properly positioned.

To Remove Chassis from Cabinet:

1. Disconnect battery plug and remove battery.
2. Disconnect antenna in cabinet.
3. Remove the two screws in the top of the cabinet (beneath handle).
4. Remove the two battery clips.
5. Remove the chassis from the cabinet.

To Remove Speaker:

1. Remove tubes 3V4 and 1U5.
2. Remove the three screws "B" holding power cord bracket assembly and remove bracket.
3. Remove the three screws "A" holding speaker bracket assembly.
4. Disconnect voice coil leads.
5. The speaker and speaker bracket may now be removed.

Using External Loop.—

A loop antenna is mounted inside the cabinet. Under normal conditions this will give satisfactory reception. If however, the receiver is used in a shielded compartment such as an automobile, airplane or railroad train, an RCA VICTOR EXTERNAL LOOP ANTENNA can be used.

This external loop antenna has a strap connector cord with identical two prong plugs on either end, this makes it convenient in connecting it to the circuit through the receptacle located in the left hand side of the chassis.

Open the case, plug the external loop antenna cord into the socket (it will only go in one way), bring the strap out through the slot in the case and attach the external loop antenna by means of the suction cup to any convenient vertical surface.

This external loop antenna can be stored in the cabinet, in the compartment below the battery pack, and the cord in the small compartment in the lower right hand corner of the cabinet.

AC-DC Operation.—

This receiver will operate on 105 to 125 volts, AC 50 or 60 cycles, or DC.

A power cord is stored in the fiber tube which is clamped above the chassis inside the cabinet. To open the cabinet, push the wire latch on the bottom of the case to the right, and raise the back cover upward on its hinges. Then pull the power cord plug out of the socket on the top of the chassis as shown, and take out and unroll the power cord. A slot in the bottom of the cabinet allows the closing of the cabinet with the power cord passing through. Close the cabinet with the cord extending through the slot and insert the plug into a convenient electrical outlet.

When returning to battery operation, be sure to replace the power plug in its socket inside the case with the cord stored in the fiber tube.

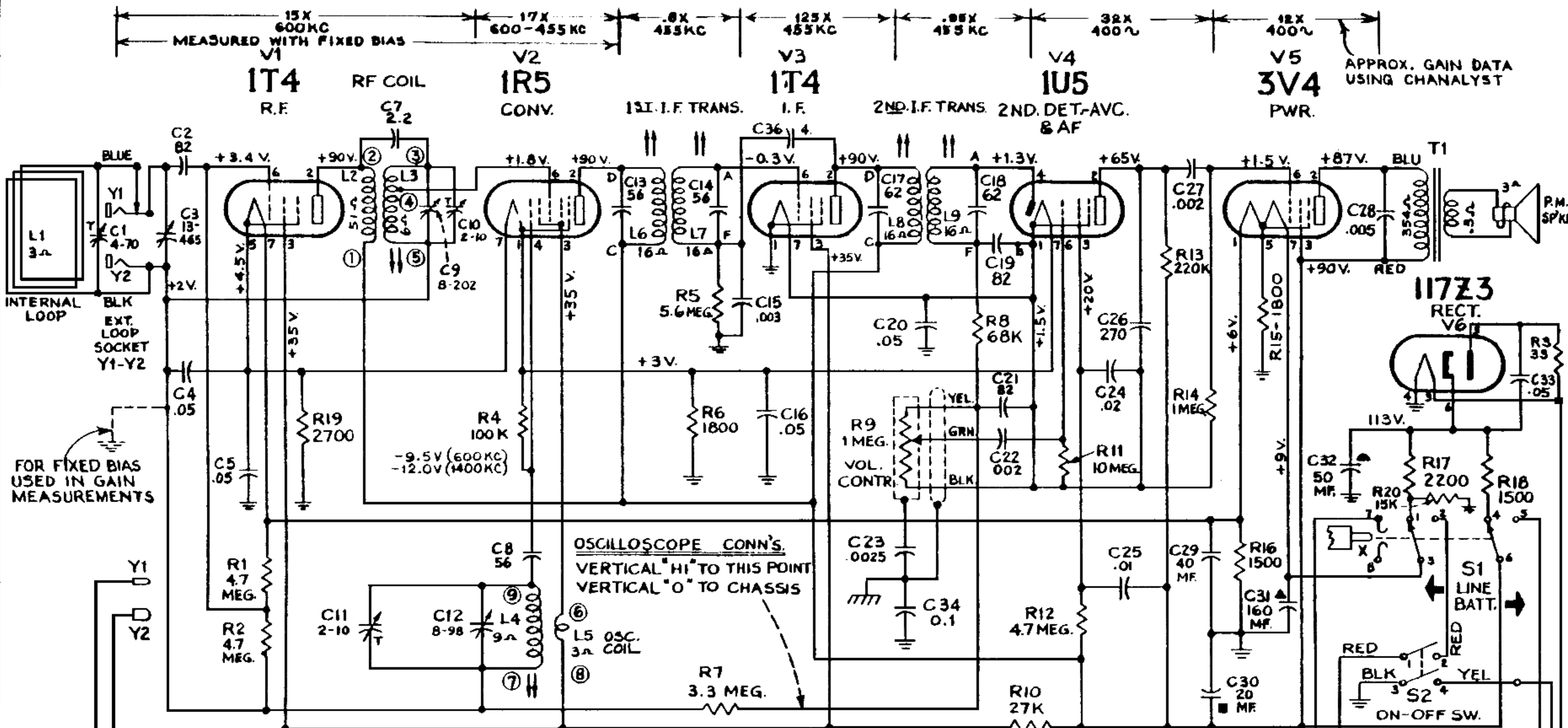
NOTE. If reception is not obtained on DC, reverse plug in outlet receptacle. This may also reduce hum on AC operation.

Trademarks Ⓜ, "RCA Victor," "VoltOhmyst," "Chanalyst," Reg. U. S. Pat. Off.

First Edition, First Printing

Printed in U. S. A.
Met dank aan Gyula Kiss

RCA VICTOR MODEL 8BX6 Chassis No. RC-1040C



TUBE CURRENT

TUBE	PLATE	GRID
V1	.89 MA.	.34
V2	.32 MA.	1.3
V3	1.3 MA.	.45
V4	.085 MA.	.014
V5	7. MA.	1.9

RECT. - 61 MA.
AC OPERATION

INDICATES COMMON WIRING INSULATED FROM CHASSIS

INDICATES CHASSIS GROUND

OSCILLOSCOPE CONN'S
VERTICAL "HI" TO THIS POINT
VERTICAL "O" TO CHASSIS

POWER CORD SHOWN IN POSITION FOR BATTERY OPERATION

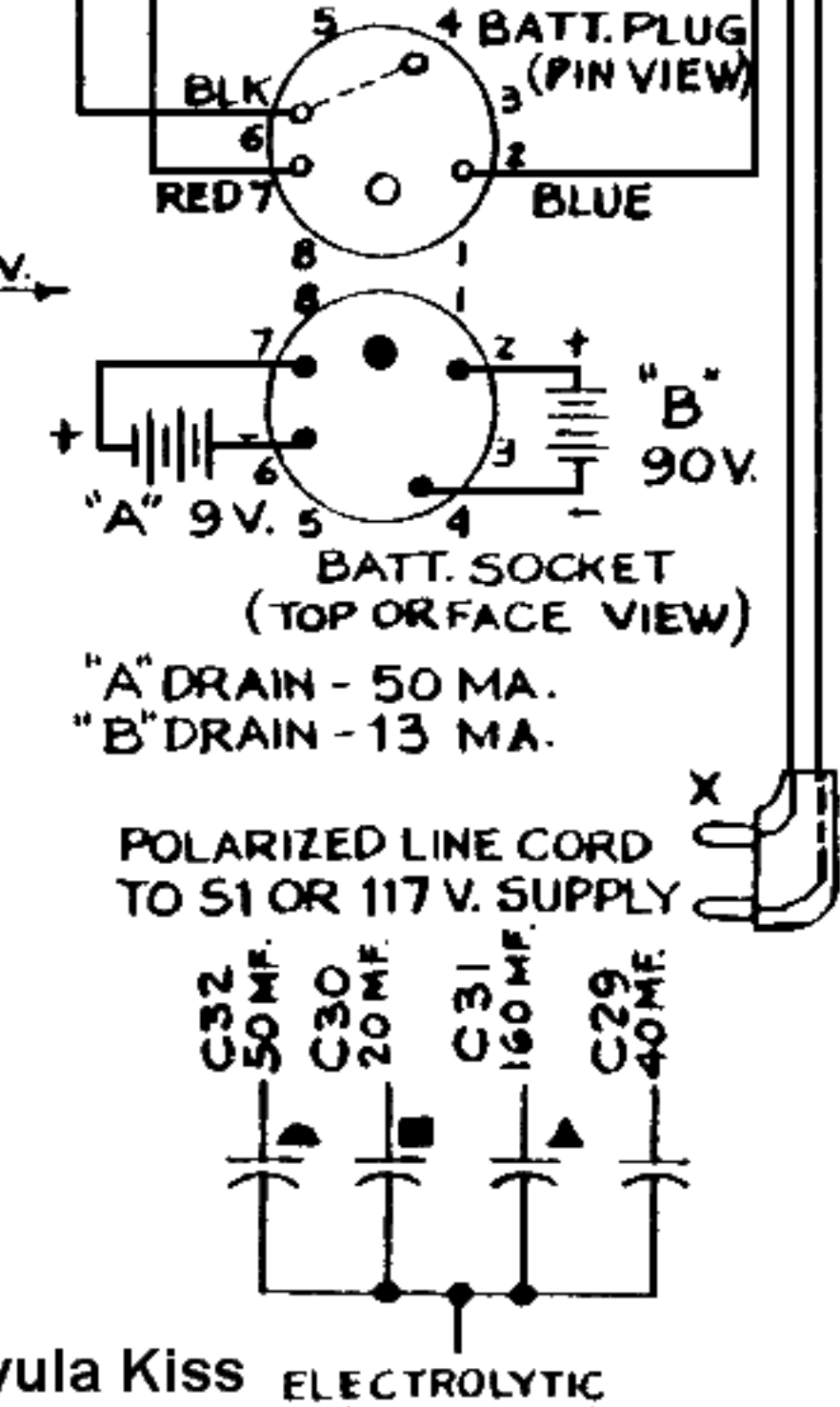
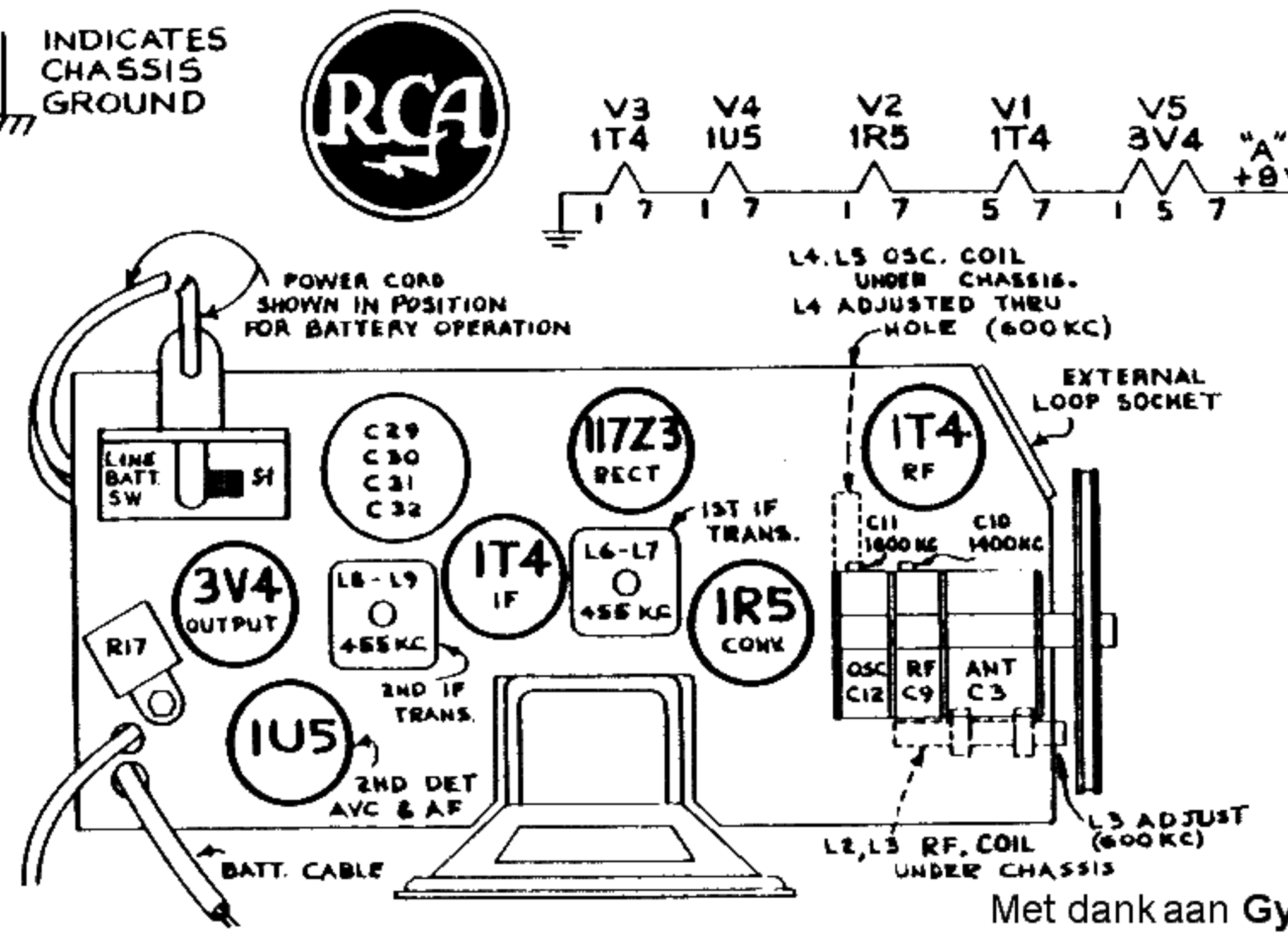
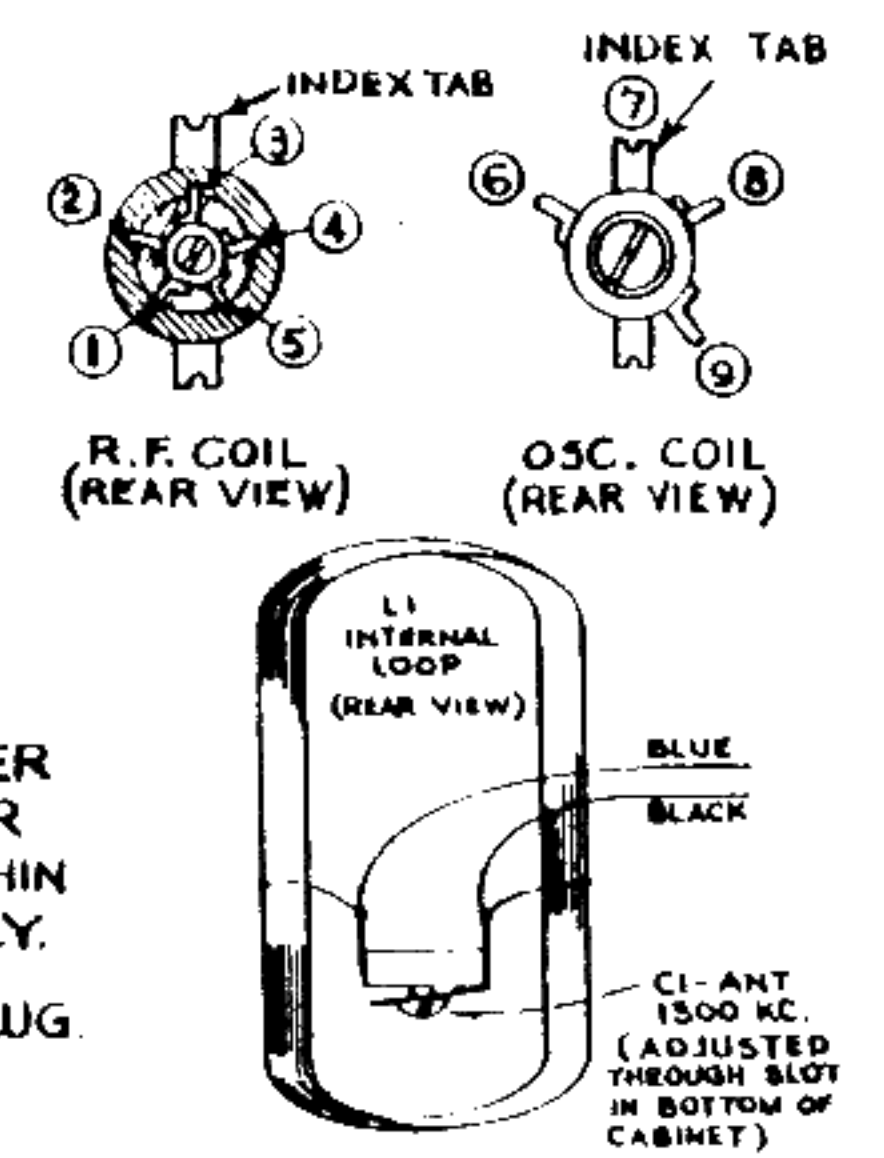
EXTERNAL LOOP SOCKET

BATT. SOCKET (TOP OR FACE VIEW)
"A" 9V. 5
"B" 90V.

POLARIZED LINE CORD TO S1 OR 117 V. SUPPLY

Met dank aan Gyula Kiss ELECTROLYTIC

K = 1000
VOLTAGES MEASURED TO RECEIVER GROUND (-B) WITH CHANALYST OR VOLTOHMYST, AND SHOULD HOLD WITHIN ±20% WITH RATED BATTERY SUPPLY.
SWITCH S1 ACTUATED BY LINE PLUG.



FOR FIXED BIAS USED IN GAIN MEASUREMENTS

APPROX. GAIN DATA USING CHANALYST

