

Model R830 is a three power AC/DC Battery Portable receiver of the personal type. Four miniature type tubes and a selenium rectifier are used in the superheterodyne circuit.

FREQUENCY RANGE: 535 to 1620 kc.

INTERMEDIATE FREQUENCY: 455 kc.

POWER SUPPLY: Operates from 115 volts AC/DC or from the following Two 1.5 volt Flashlight Cells
One 67.5 volt "Battery
It is recommended that the "A" battery be replaced when the operating voltage drops below 2 volts. The "B" battery should be replaced when the operating voltage drops below 47 volts.

CURRENT DRAIN: On 115 volts AC/DC-0.15 ampere.

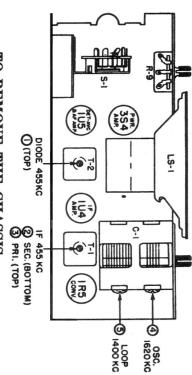
On batteries: "A" battery-150 milliamperes

"B" battery—8.5 milliamperes

AUDIO POWER OUTPUT: 0.1 watt undistorted

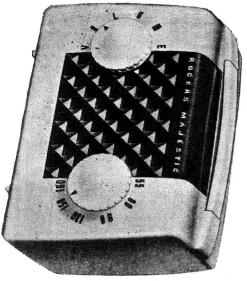
0.15 watt maximum

ANTENNA: A loop antenna is built into the back of the cabinet.



## TO REMOVE THE CHASSIS

- . Pull off the two control knobs on the front of the cabinet.
- 9 Open the rear cover and remove the batteries.
- ္ Disconnect the two loop antenna leads from the chassis.
- 4 Remove the cord connecting the back cover to the chassis.
- Ö Remove the two hex head screws holding the chassis to the cabinet.
- 6 Slide the chassis out of the cabinet



## TO OPEN BACK COVER:

insert a coin and twist. The back cover may be opened by inserting the fingertips into the slots in the top of the cabinet and pulling, or

## ISOLATING TRANSFORMER:

The chassis of this receiver is isolated from the AC power line circuit by a capacitor to eliminate the shock hazard when handling the receiver. However, as an additional precaution when aligning or servicing the receiver from AC, an isolating transformer should be inserted between the power line and the chassis.

## ALIGNMENT

Note: The receiver may be operated either from a battery or from the commercial power lines during alignment.

If AC power is used, it is recommended that an isolation transformer be placed between the power line and the receiver. If an isolation transformer is not available, connect the low side of the signal generator to B— through a .1 mf capacitor.

- Connect a low range output meter across the speaker voice coil
- 2 Connect the low side of the signal generator to B-
- **ω** Set the signal generator for 400 cycle, 30% modulation
- 4 Turn the receiver volume control to maximum
- O. Use a small fibre screwdriver for aligning the IF and diode transformers

6.

- As stages are brought into alignment, reduce the signal generator input to keep the output of the receiver at approximately .05 watt (.05 watt = .40 volts on the output meter) to avoid overloading the receiver.
- 7. See figure above for adjustment locations and the following chart for procedure.

\*\*Connect generator output across 5" diameter, 5 turn loop and couple inductively to receiver loop. least 12" apart. Keep loops at

The following table shows some manufacturer's Part Numbers of batteries that may be used with this receiver:

1	1
"A"	Туре
2	Burgess
950	Eveready
Д	General
2	Ray-O-Vac
	2

