

BATTERY REQUIREMENTS: The following batteries are required for **ALIGNMENT:** (ELECTRIC OPERATION) Receiver removed from cabinet. Should it become necessary at any time to check the alignment of this receiver, proceed as follows:

QUANTITY	TYPE	MANUFACTURER
2	1½ Volt "A"	Eveready #950, Burgess #2 or equivalent
1	67½ Volt "B"	Eveready #467, Burgess #XX45 or equivalent

TUNING RANGE: Broadcast Band 540 to 1650 Kilocycles (180 to 555 Meters)

DIAL: The rotary dial scale is calibrated in kilocycles, with the final zero omitted to permit easier reading. **Example** 600 Kilocycles appears as 60 on the tuning dial.

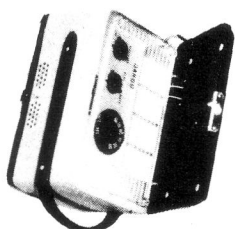
TUBES: The tubes used and their function are as follows:

- 1R5 Converter
- 1T4 Amplifier
- 1U5 Detector, AVC & Audio Amp.
- 3V4 Power Amplifier.

For the location of these tubes, see diagram showing tube layout.

RECTIFIER: 36.130 Selenium Rectifier.

1949-50



- (1) Set the Signal Generator to 455KC and connect to the green lead from the variable capacitor. Extend the loop leads and solder in place. Connect the Signal Generator ground lead to B—by bringing out a lead soldered to the B—bus. Connect a suitable output meter across the speaker voice coil connections. Turn the Volume Control to the maximum position. Turn the Variable Capacitor to the extreme clockwise position (minimum capacity).
- (2) Adjust the trimmers located at the top of the first and second I.F. transformers for maximum output as indicated on the output meter.
- (3) Loosely couple the Signal Generator lead through a two turn loop to the loop antenna and set to 1650KC.
- (4) With the Variable Capacitor set at the extreme clockwise position (minimum capacity), tune in the 1650KC signal by turning the oscillator trimmer on the variable capacitor (front section).
- (5) Set the Signal Generator to 1500KC and turn the tuning control so that this frequency is indicated on the dial. Adjust the antenna trimmer on the variable capacitor (rear section) for maximum output.
- (6) Install the chassis into the case and solder the loop leads in place. Check the dial calibration. Adjust the antenna trimmer through the hole located underneath the handle for maximum output at 1500 KC. No other adjustment are necessary.

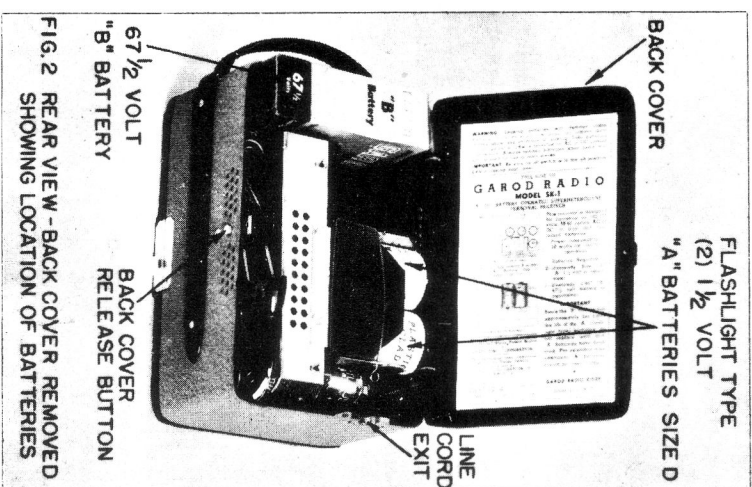


FIG. 2 REAR VIEW - BACK COVER REMOVED SHOWING LOCATION OF BATTERIES

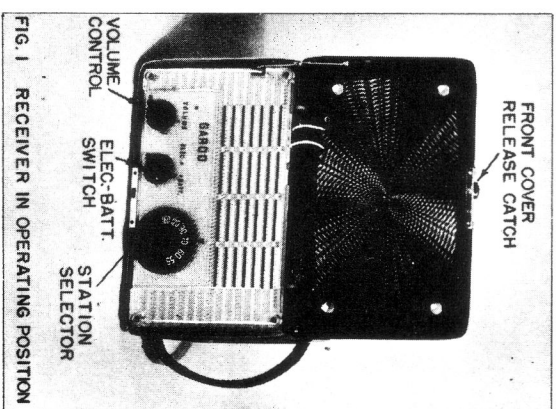


FIG. 1 RECEIVER IN OPERATING POSITION

GAROD AC-DC BATTERY PORTABLE MODEL 5K-1

CIRCUIT DATA ON
SHEET 3