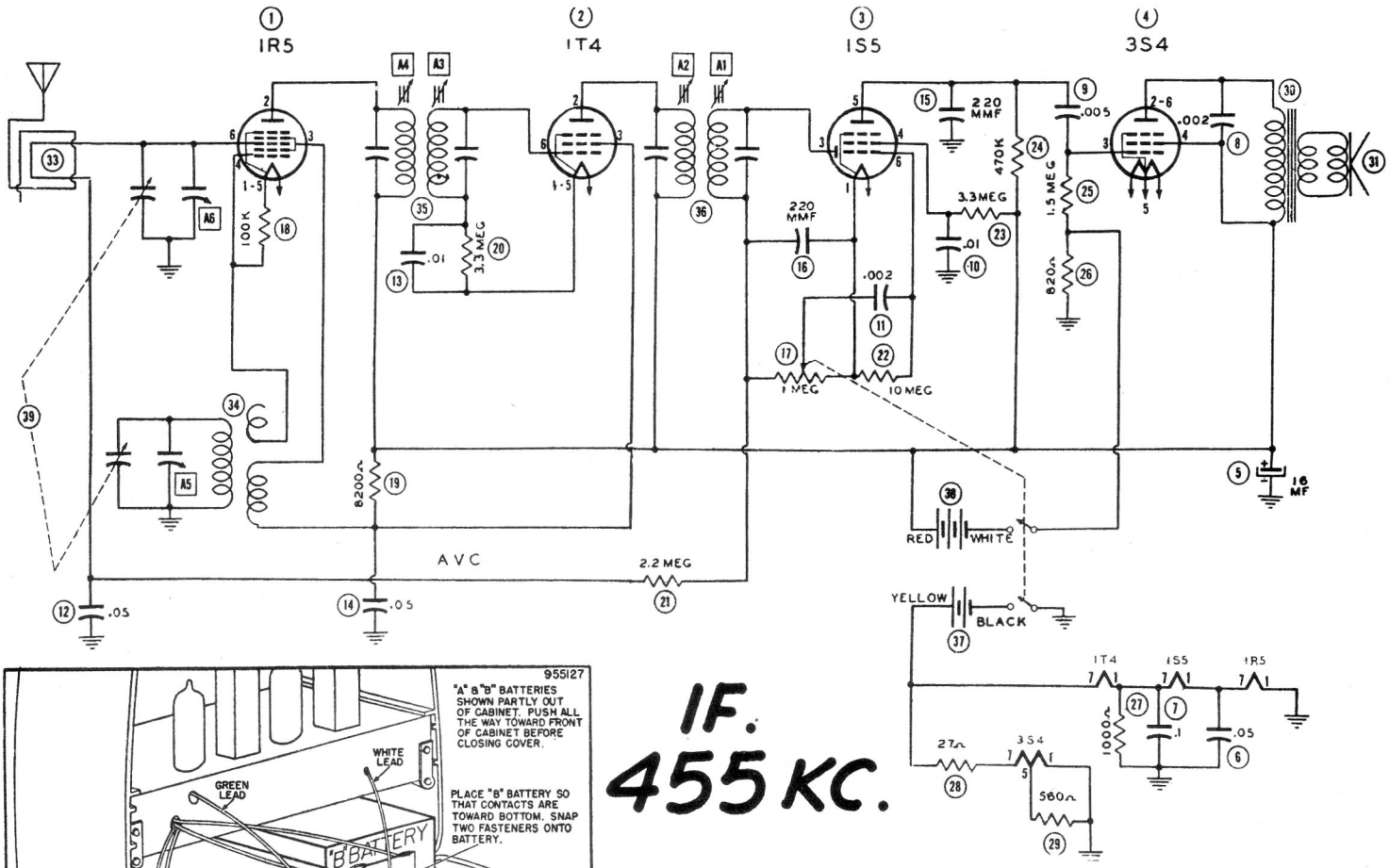

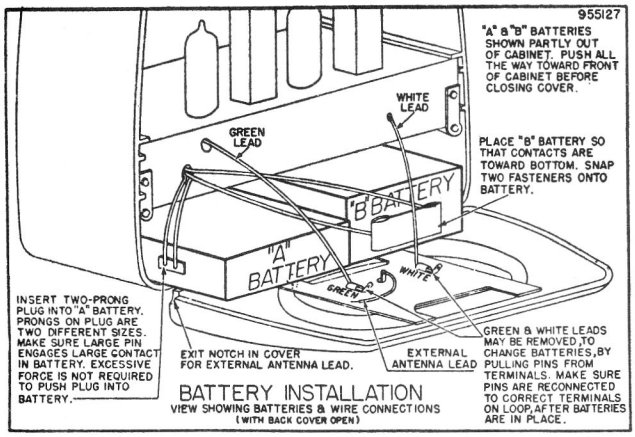

IF. 455 KC.

BATTERY PORTABLE MODELS 560 567

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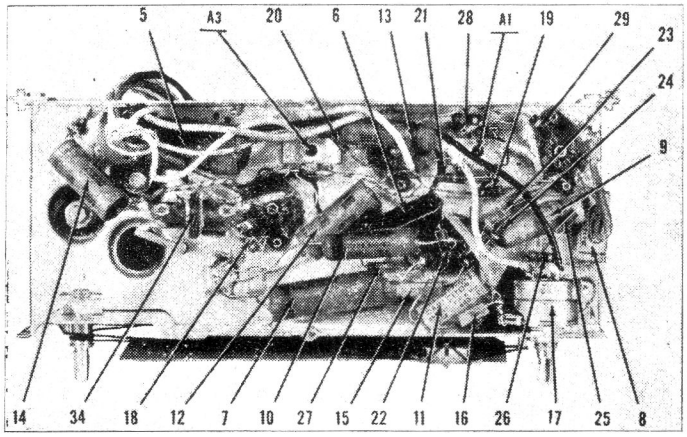
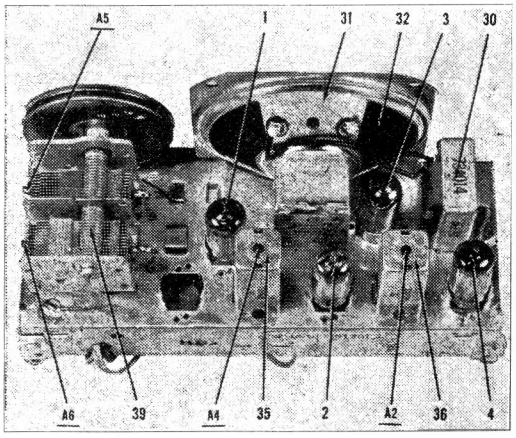
INSTRUCTION DATA ON SHEET 13





VOLTAGE READINGS

SYMBOL	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7
1	1R5	0	57	44	*5.2	0	0	1.45
2	1T4	2.8	57	44	0	2.8	0	4.4
3	1S5	1.45	0	0	12	27	0	2.8
4	3S4(or3Q4)	0	55	-1.3	57	1.5	55	3

* Oscillator Grid Voltages Are Measured By Vacuum-Tube Voltmeter.

RESISTANCE READINGS

SYMBOL	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7
1	1R5	0	120,000	130,000	100,000	0	3.5 meg.	*
2	1T4	*	120,000	130,000	3.5 meg.	*	3.5 meg.	*
3	1S5	*	inf.	1.1 meg.	3.4 meg.	600,000	10 meg.	*
4	3S4(or3Q4)	0	120,000	1.5 meg.	120,000	*	120,000	*

* Do Not Use Ohmmeter To Measure Filament Resistances.

VOLTAGE AND RESISTANCE READING INSTRUCTIONS

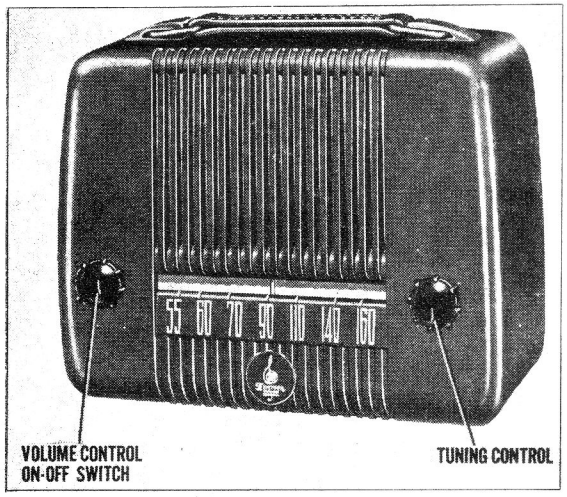
1—Voltage readings are in volts and resistance readings in ohms unless otherwise specified.
2—Voltage measurements are d-c at 20,000 ohms per volt.
3—Socket connections are shown as bottom views.
4—Measured values are from socket pin to common negative.
5—Nominal tolerance on component values makes possible a variation of ± 15% in voltage and resistance readings.
6—Volume control at maximum, no signal applied for voltage measurements.

For best results replacements should be made with genuine Emerson parts and genuine Emerson tubes.

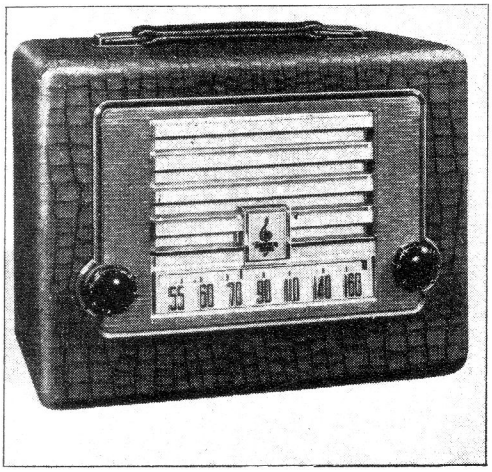
ALIGNMENT

To set pointer, turn variable condenser fully closed and set pointer at mark near left end of dial backplate. Connect a 100,000 ohm resistor across the loop leads during Steps 1 and 2. Volume control should be at maximum position; output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1	0.1 mfd.	High side to rear stator of variable condenser. Low side to chassis.	455 kc	Variable condenser fully open.	Across voice coil.	A1, A2, A3, A4	Adjust for maximum output.
2	0.1 mfd.	High side to rear stator of variable condenser. Low side to chassis.	1620 kc	Variable condenser fully open.	Across voice coil.	A5	Adjust for maximum output.
3		Loop	1400 kc	Tune for maximum output.	Across voice coil.	A6	Disconnect 100,000 ohm resistor from loop leads. Connect loop leads to loop. Hold chassis in same relative position to loop as when chassis is mounted and cabinet back is on. Radiate signal into loop. Adjust A6 for maximum output.



MODEL 560



MODEL 567

GENERAL NOTES

1. If replacements are made in the r-f section of the circuit, the receiver should be carefully realigned.
2. The receiver has a self-contained antenna and normally does not require additional antenna or ground connection. For permanent home installations, however, in a location far removed from broadcasting stations, an additional outside antenna may be used. The outside antenna connection should be made to the colored lead at the rear of the cabinet. Use no ground connection.
3. The self-contained loop antenna has directional properties. It is important, therefore, once the station is tuned in, that the cabinet be rotated on its base back and forth through a quarter of a circle (90 degrees), and left at the position where the station is received with maximum volume.
4. Battery complement: Replace 4.5 volt "A" battery with Eveready No. 746 or equivalent. Replace 67.5 volt "B" battery with Eveready Minimax No. 467 or equivalent. Refer to battery installation diagram.

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CIRCUIT DATA ON SHEET 12

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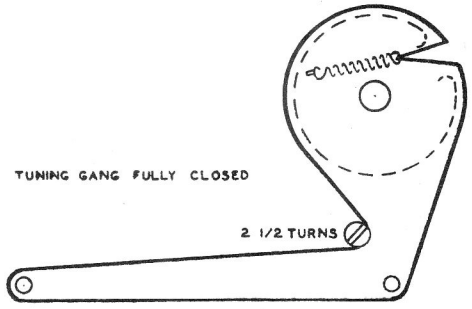

DIAL CORD DRIVE