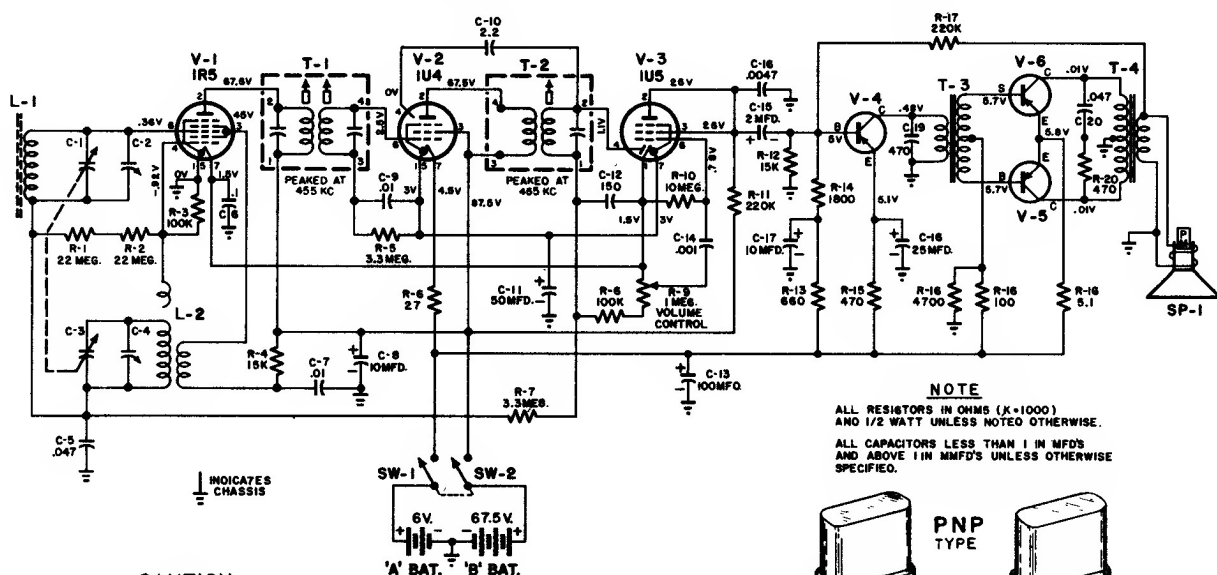


EMERSON RADIO

Model 843, Chassis 120298



CAUTION

Use only a vacuum tube type of ohmmeter. The $R \times 10$ scale must be used for all forward (low) resistance measurements. Do not use the $R \times 1$ scale as this might damage the transistor. A shunt type ohmmeter should not be used. If in doubt as to the type of vacuum tube ohmmeter you have, place a 1,000 ohm resistor in series with it and subtract this 1,000 ohms from the reading obtained.

If these instructions are not followed, damage to the transistors may result since some non-electronic type of ohmmeters use high internal battery voltages.

CONDITIONS FOR TAKING VOLTAGE READINGS

Voltages indicated are positive d.c., resistance is ohms, unless otherwise noted.

Measurements made with voltohmmeter or equivalent.

All measurements taken between points and chassis, unless otherwise indicated.

Before taking resistance measurements, turn on-off switch to the "off" position (or disconnect batteries).

Then remove transistors.

Volume control at maximum, no signal applied for voltage measurements.

Nominal tolerance in component values makes possible a variation of $\pm 15\%$ in readings.

K is Kilohms, MEG in megohms.

ALIGNMENT INSTRUCTIONS

Volume control should be at maximum; 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	.1 mfd.	High side to orange lead of bar loop antenna. Low side to chassis.	455 KC.	Tuning condenser fully open.	Across voice coil	T2, T3 and T1	Adjust for maximum output starting with T3.
2		Use a loop set perpendicular and about 20" from center of bar loop ant. in set.	1620 KC.	Tuning condenser fully open.	Across voice coil	C-2 (osc. trimmer)	Fashion loop of several turns of wire and radiate signal into bar loop of receiver. Adjust for maximum output.
3		"	1400 KC.	Tune for maximum output.	Across voice coil.	C-1 (Ant. trimmer)	Adjust for maximum output.
4		"	600 KC.	Tuning condenser set for 600 KC.	Across voice coil.	Osc. slug in L-2	Rock the variable cond. each side of 600 KC while adj. osc. slug for max. response.
5		"	1620 KC.	Tuning condenser fully open.	"	C-2 Osc. trimmer.	If readjustment is necessary repeat steps 2 to 4 until no further improvement is noted.

NOTE
ALL RESISTORS IN OHMS ($\times 1000$) AND 1/2 WATT UNLESS NOTED OTHERWISE.
ALL CAPACITORS LESS THAN 1 IN MFD'S AND ABOVE 1 IN MMFD'S UNLESS OTHERWISE SPECIFIED.

