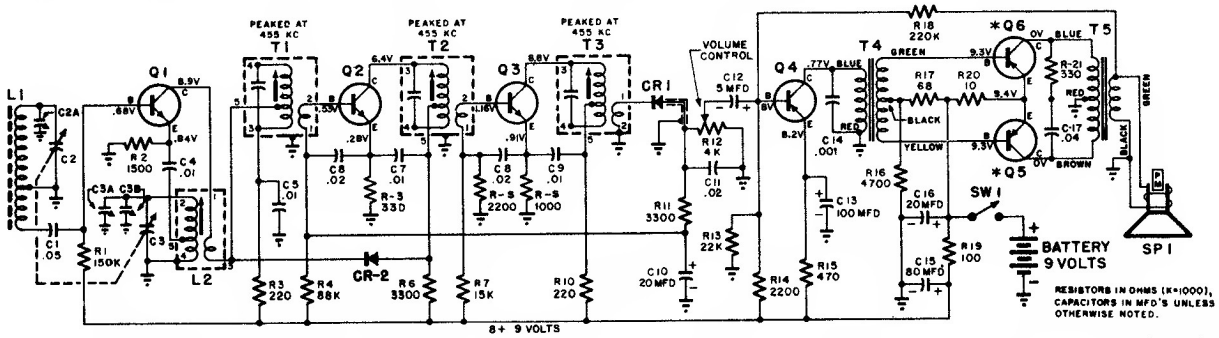
Emerson Radio

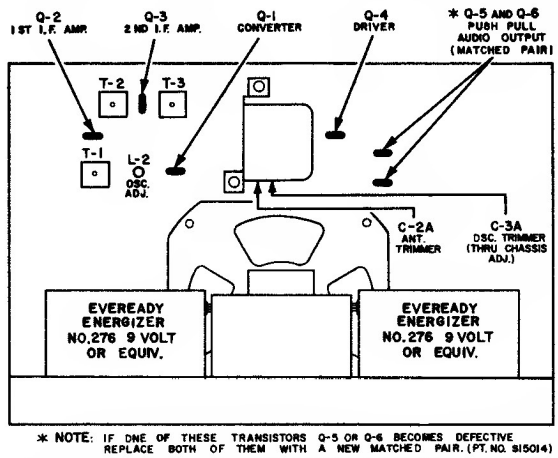
MODEL 844
CHASSIS 120309
MODEL 847
CHASSIS 120328



* NOTE: IF ONE OF THESE TRANSISTORS Q-3 OR Q-6 BECOMES DEFECTIVE REPLACE BOTH OF THEM WITH A NEW MATCHED PAIR (PT. NO. 815014)

RESISTANCE READINGS FOR CHASSIS 120309 120328

SYMBOL	TERMINAL B	TERMINAL C	TERMINAL E
Q1	165KΩ	3.3K*Ω	1500Ω
Q2	4KΩ	3800*Ω	330Ω
Q3	2KΩ	3.3K*Ω	1000Ω
Q4	4.2KΩ	500Ω	3.4KΩ
Q5	3K*Ω	22Ω	2.9K*Ω
Q6	3K*Ω	18	2.9*KΩ



* NOTE: IF ONE OF THESE TRANSISTORS Q-5 OR Q-6 BECOMES DEFECTIVE REPLACE BOTH OF THEM WITH A NEW MATCHED PAIR. (PT. NO. 815014)

Figure 1 – TRANSISTOR AND BATTERY LOCATION DIAGRAM

CONDITIONS FOR VOLTAGE AND RESISTANCE READINGS

1. Voltages indicated are positive d.c., resistance is ohms.
2. Measurements made with voltohmyst or equivalent.
3. All measurements taken between points and chassis, unless otherwise indicated.
4. Before toking resistance measurements, turn on-off switch to the "off" position (or disconnect botteries). Then remove transistors.
5. Volume control ot moximum, no signal applied for voltage measurements.
6. Nominal tolerance in component values makes possible a voriation of ± 15% in readings.
7. K is Kilohms, MEG is megohms.

ALIGNMENT INSTRUCTIONS

Volume control should be at moximum; output of signol generator should be no highor than necessary to obtoin on output reading with o 30% audio modulated R.F. Use an insulated olignment screwdriver for odjusting.

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1	.1 mfd.	High side to junction of L-1 & C-2. Low side to chassis.	455 KC.	Tuning condenser fully open.	Across voics coil.	T2, T3 snd T1	Adjust for maximum output starting with T3.
2		Use s loop set perpendicular snd sbout 20" from center of bar loop ant. in set.	1650 KC.	Tuning condenser fully open.	Across voice coil	C-3A (osc. trimmer) See note below	Feshion loop of severel turns of wire snd rsdiste signsl into bar loop of receiver. Adjuet for mexiмum output.
3		"	1400 KC.	Tune for maximum output.	Acroes voice coil.	C-2A (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 varisble cond. esch side of 600 KC while sdj. osc. slug for maximum response.
5		"	1650 KC.	Tuning condenser fully open.	"	C-3A Osc. trimmer	If resdjustment is necessary repest steps 2 to 4 until no further improvement is noted.

NOTE: C-3A is the oscillator trimmer capacitor, physically located on the bottam side of the tuning capacitar when the chassis is maunted in its case. Both C-3A and C-2A can be reached (see Fig. 1.) C-3B is the alternate oscillator trimmer capacitor and is factary adjusted for minimum trimmer capacity requirements.

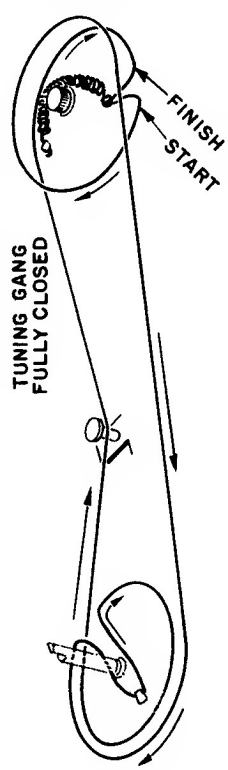


Figure 2 – DIAL CORD STRINGING DIAGRAM – MODEL 844