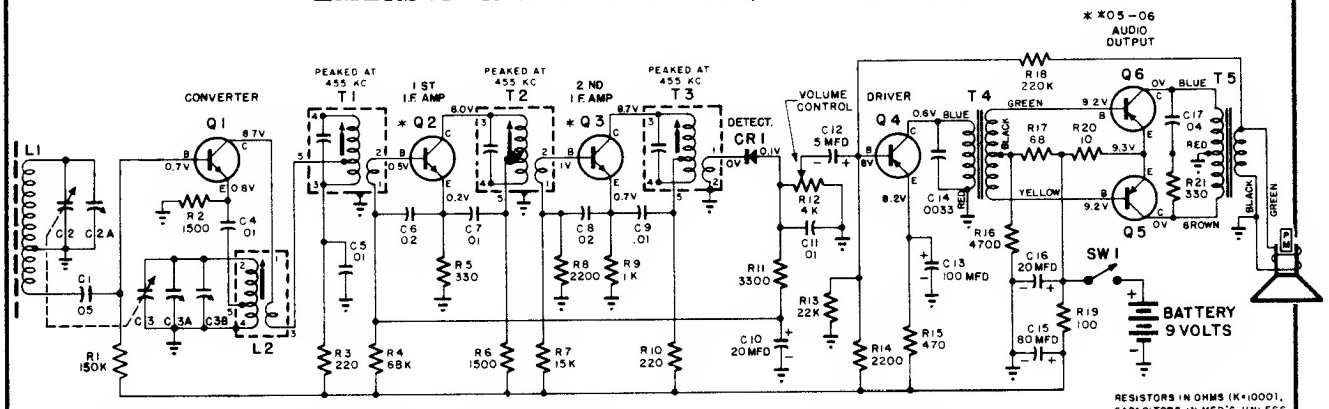
# EMERSON RADIO Model 855, Chassis 120314




RESISTORS IN OHMS (K=1000), CAPACITORS IN MFD'S UNLESS OTHERWISE NOTED

* EMERSON PT NO 815010 CALLED OFF FOR 02 AND 03 CAN BE EITHER TWO (2) - 2N146 OR A 2N145 AND A 2N147 TRANSISTOR FOR REPLACEMENT PURPOSES HOWEVER, OUR PT NO 815010 WILL BE A 2N146 TRANSISTOR

NOTES:

* * IF ONE OF THESE TRANSISTORS Q5 OR Q6 BECOMES DEFECTIVE REPLACE BOTH OF THEM WITH A NEW MATCHED PAIR.

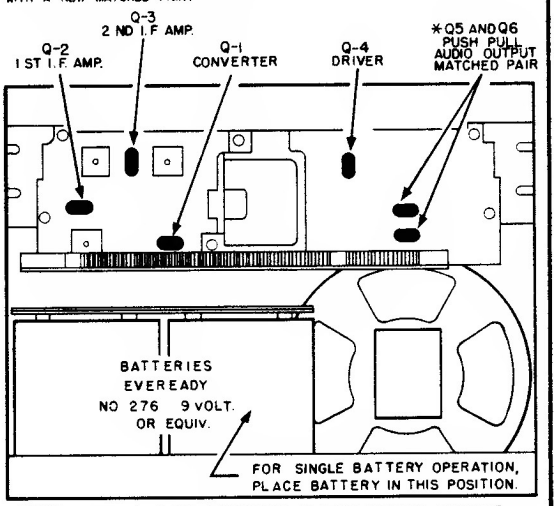
## RESISTANCE READINGS

TURN SET "OFF" THEN REMOVE ALL TRANSISTORS BEFORE TAKING RESISTANCE READINGS

| SYMBOL | TERMINAL B | TERMINAL C | TERMINAL E |
|---|---|---|---|
| Q-1 | 150K | 3.4K | 1500 |
| Q-2 | 4K | 4.8K | 330 |
| Q-3 | 1.9K | 1K | 3.4K |
| Q-4 | 4.5K | 500 | 3.4K |
| Q-5 | 3.2K | 19 | 3.2K |
| Q-6 | 3.2K | 21 | 3.2K |

RESISTANCE READINGS SHOWN ABOVE IN OHMS UNLESS OTHERWISE SPECIFIED

Voltages indicated are pasitive d.c., resistance is ahms.
Measurements made with valtahmyst ar equivalent.
All measurements taken between paints and chassis,

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## ALIGNMENT INSTRUCTIONS

Valume cantral should be at maximum; autput af signal generator shauld be na higher than necessary to obtain an output reading with a 30% audia madulated R.F. Use an insulated alignment screwdriver far adjusting.

| | 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 voice coil. | T2, T3 and T1 | Adjust for maximum output starting with T3. |
| 2 | | Use a loop aet perpendicular and about 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 | 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-2A (Ant. trimmer) | Adjust for maximum output. |
| 4 | | " | 600 KC. | Tuning condenser set for 600 KC. | Across voice coil. | Osc. alug in L-2 | Rock the variable cond. each aide of 600 KC while adj. osc. alug for maximum reaponae. |
| 5 | | " | 1650 KC. | Tuning condenser fully open. | " | C-3A Osc. trimmer | If readjuatment is neceaaary repeat atepa 2 to 4 until no further improvement is noted. |

NOTE: C-3A is the ascillatar trimmer capacitar, physically lacated an the battam side of the tuning capacitar when the chassis is mounted in its case. Bath C-3A and C-2A can be reached thraugh cutauts in the antenna mounting baard. C-3B is the alternate ascillator trimmer capacitor and is factory adjusted far minimum trimmer capacity requirements.