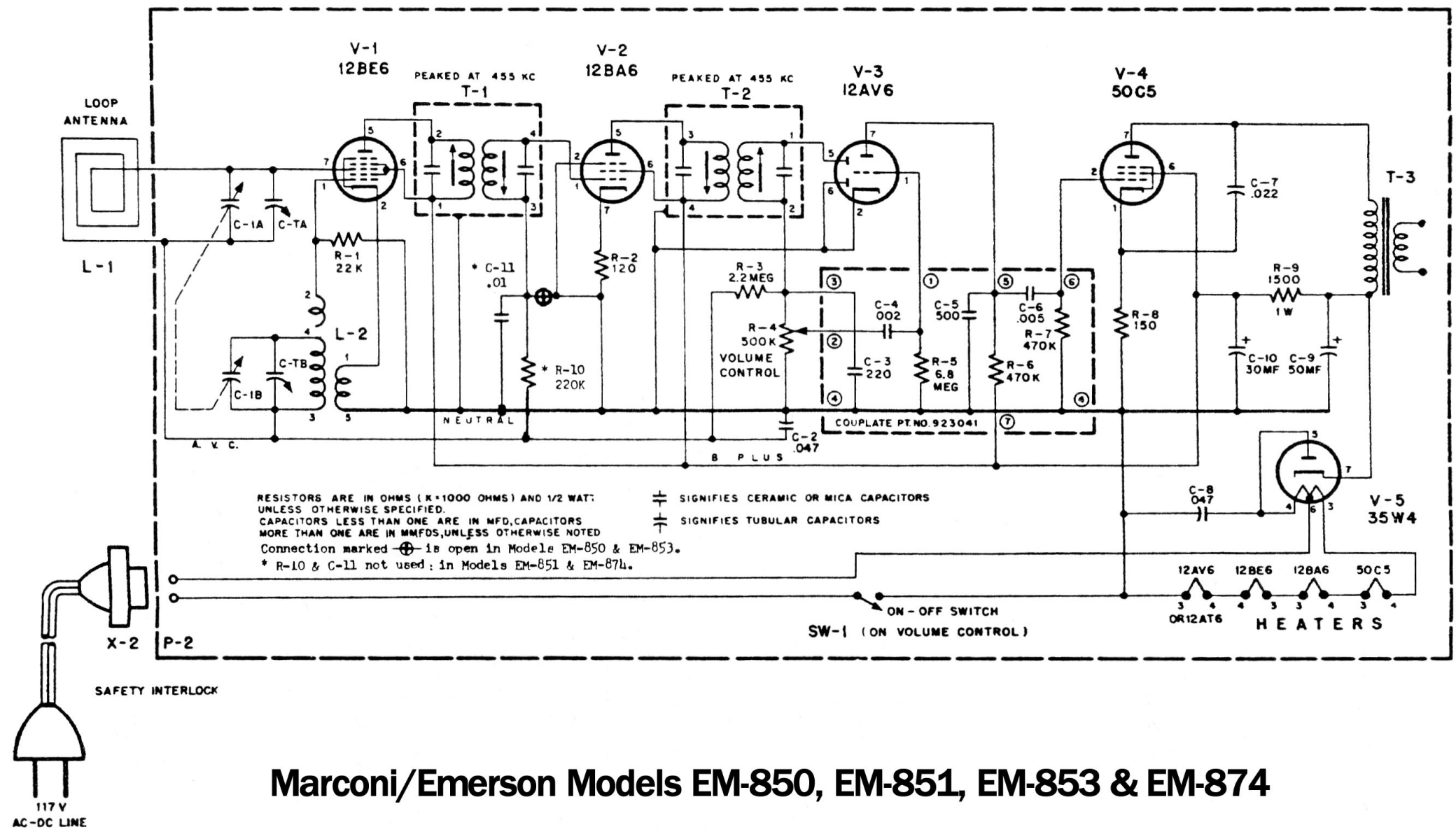


Marconi/Emerson Models EM-850, EM-851, EM-853 & EM-874

Marconi/Emerson Models EM-850, EM-851, EM-853 & EM-874

ALIGNMENT CHART

STEP	CONNECT S.G. OUTPUT TO	INPUT FREQUENCY	RECEIVER DIAL SETTING	ADJUST	CIRCUITS RESONATED	REMARKS
1	(1) C.G. 12BE6	455 K.C.	Gang at Minimum	Top & Bottom Aligners	No. 2 I.F.	Adjust for Maximum Output
2	C.G. 12BE6	455 K.C.	Gang at Minimum	Top & Bottom Aligners	No. 1 I.F.	
3	(2) Radiation Loop	1620 K.C.	Gang at Minimum	C-TB	Oscillator	
4	Radiation Loop	1400 K.C.	1400 K.C.	C-TA	R.F.	
5	Radiation Loop	1000 K.C. 580 K.C.	1000 K.C. 580 K.C.	Check Sensitivity and Calibration Adjust Gang plates if necessary		

(1) Lug on Detector Section of gang forms a convenient point of connection. Apply signal through a 400 ohm resistor.

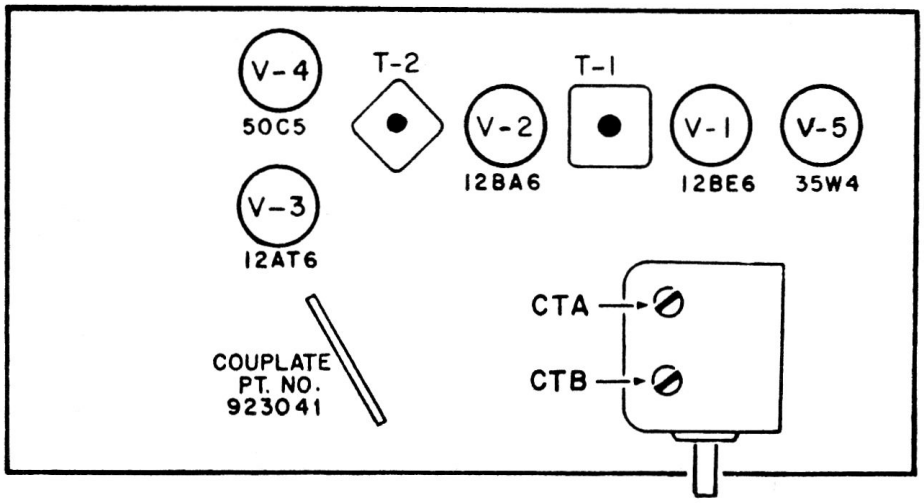
(2) Radiation Loop may consists of 4 turns of # 18 wire approximately 6 inches in diameter and spaced 2 to 4 feet from receiver loop.

NOTE: Use isolation transformer if available. If not, connect a .25 Mfd., condenser in series with low side of Signal Generator and "B" neutral.

RESISTANCE READINGS

SYMBOL	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7
V-1	12BE6	22 K	1.0 ^	32 ^	22 ^	1500 ^ (1)	1500 ^ (1)	3 Meg.
V-2	12BA6	15 ^	0 (3)	32 ^	42 ^	1500 ^ (1)	1500 ^ (1)	120 ^
V-3	12AV6 (4)	6.8 Meg.	0	0	22 ^	500 K	0	470 K (1)
V-4	50C5	150 ^	470 K	42 ^	93 ^	500 K	1500 ^ (1)	140 ^ (1)
V-5	35W4	N.C.	N.C.	85 ^	120 ^	125 ^	115 ^	1 Meg. (2)

(1) Resistances measured to Pin 7 of 35W4 (B+).
(2) Wait for meter to settle (about 30 seconds).
(3) Resistance reading is 2.9 Meg.., in Models EM-850 & EM-853.
(4) 12AT6 tube may be used.



TUBE AND TRIMMER LOCATION