



RADIO SERVICE BULLETIN

Issue No. 5

Date of issue: March, 1947

Subject: Model 141

S.T.C. MODEL 141 MANTEL (BANTAM) (Bakelite Cabinet)

CIRCUIT: Four-valve superheterodyne without A.V.C. It employs a frequency changer, one stage of I.F. amplification, detector and output stage.

TUNING RANGE:

540 kilocycles to 1620 kilocycles.

VALVE COMPLEMENT:

Frequency Changer 6J8G.
I.F. Amplifier and Detector 6G8G.
Power Output 6V6GT.
H.T. Rectifier 6X5GT.

POWER SUPPLY:

200-240 volts, 50 cycles. Consumption—35 watts approx.

LOUD SPEAKER:

Permag 5" cone; 5000 ohms input.

CIRCUIT VOLTAGES:

	Plate	Screen	Osc. P.	Cathode	Filament
V1	220	100	140	—	6.2
V2	220	100	—	—	6.2
V3	210	220	—	14	6.2
V4	220 ea.	—	—	220	6.2

These voltages must be measured to receiver earth with voltmeter having a resistance of at least 1000 ohms per volt (Tolerance $\pm 5\%$). Volume control must be turned to maximum.

MEASUREMENT SPECIFICATION:

I.F. Sensitivity—Frequency Converter Grid—350 microvolts
I.F. (V2) Grid—35 millivolts
Overall Average—80 microvolts

These figures are related to an audio frequency output of 14 volts measured between plate of V3 and earth.

ALIGNMENT FREQUENCIES:

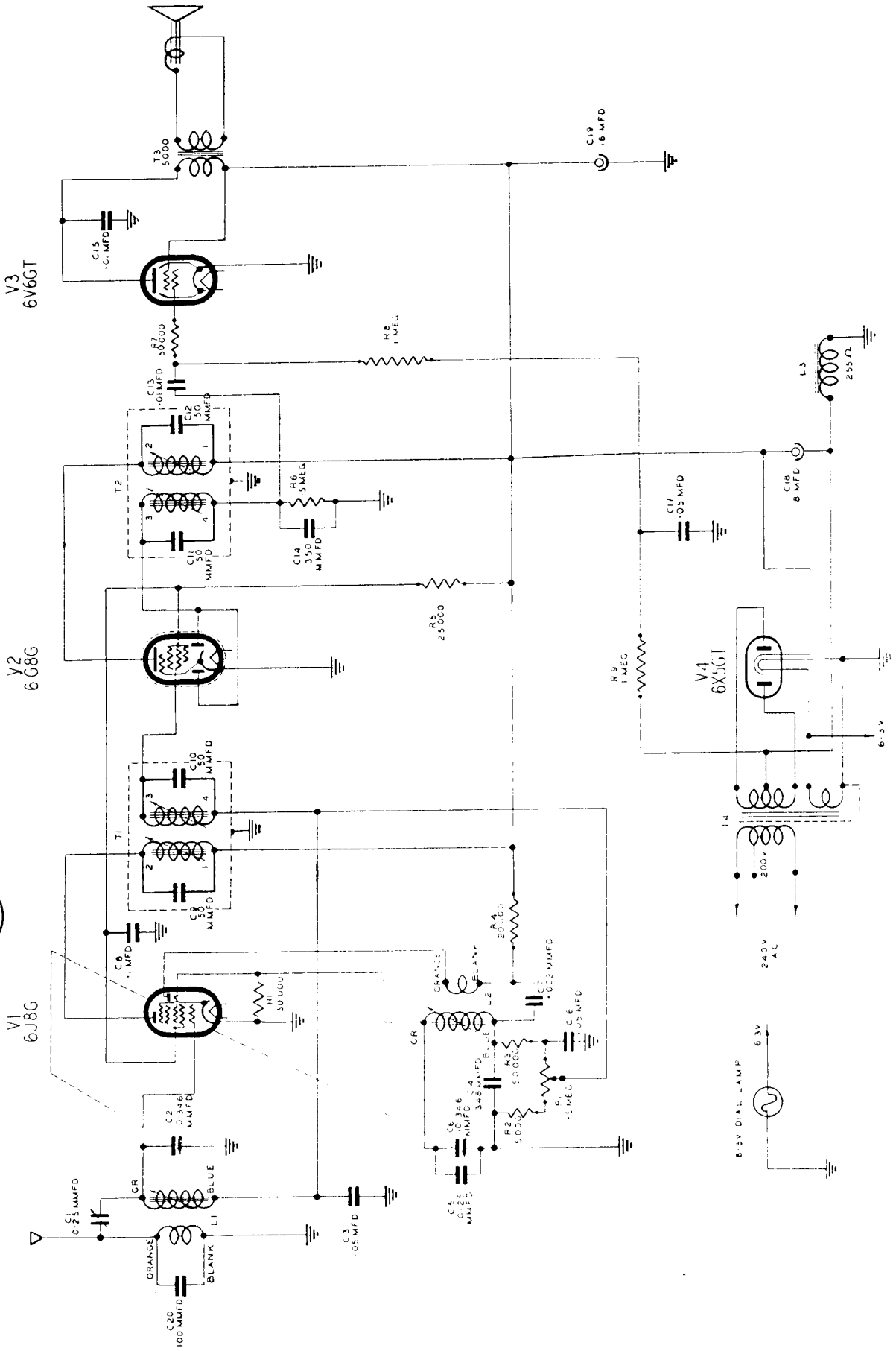
1400 Kc/s and 600 Kc/s.

CHECK POINTS:

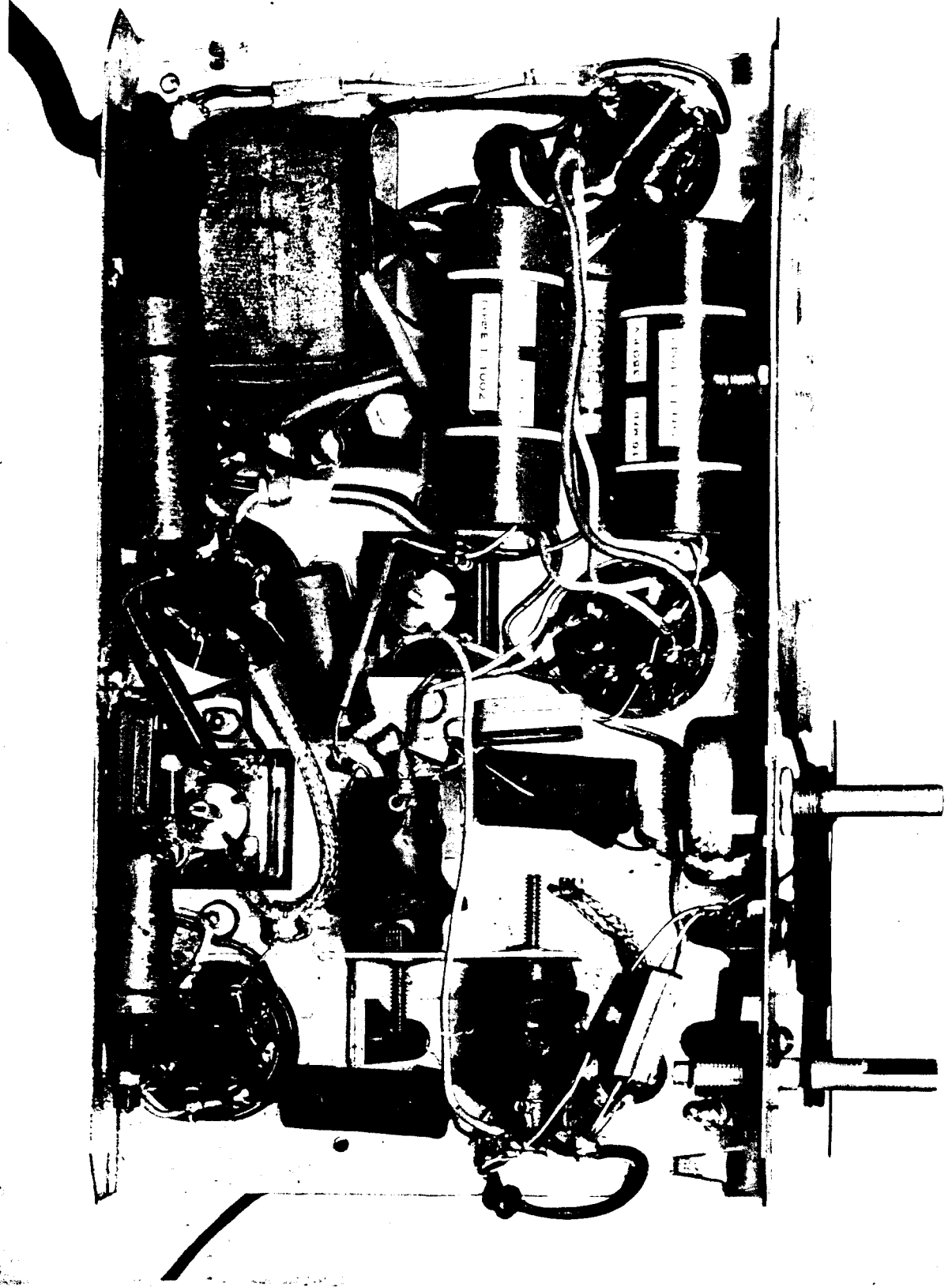
1000 Kc/s.



MODEL 141



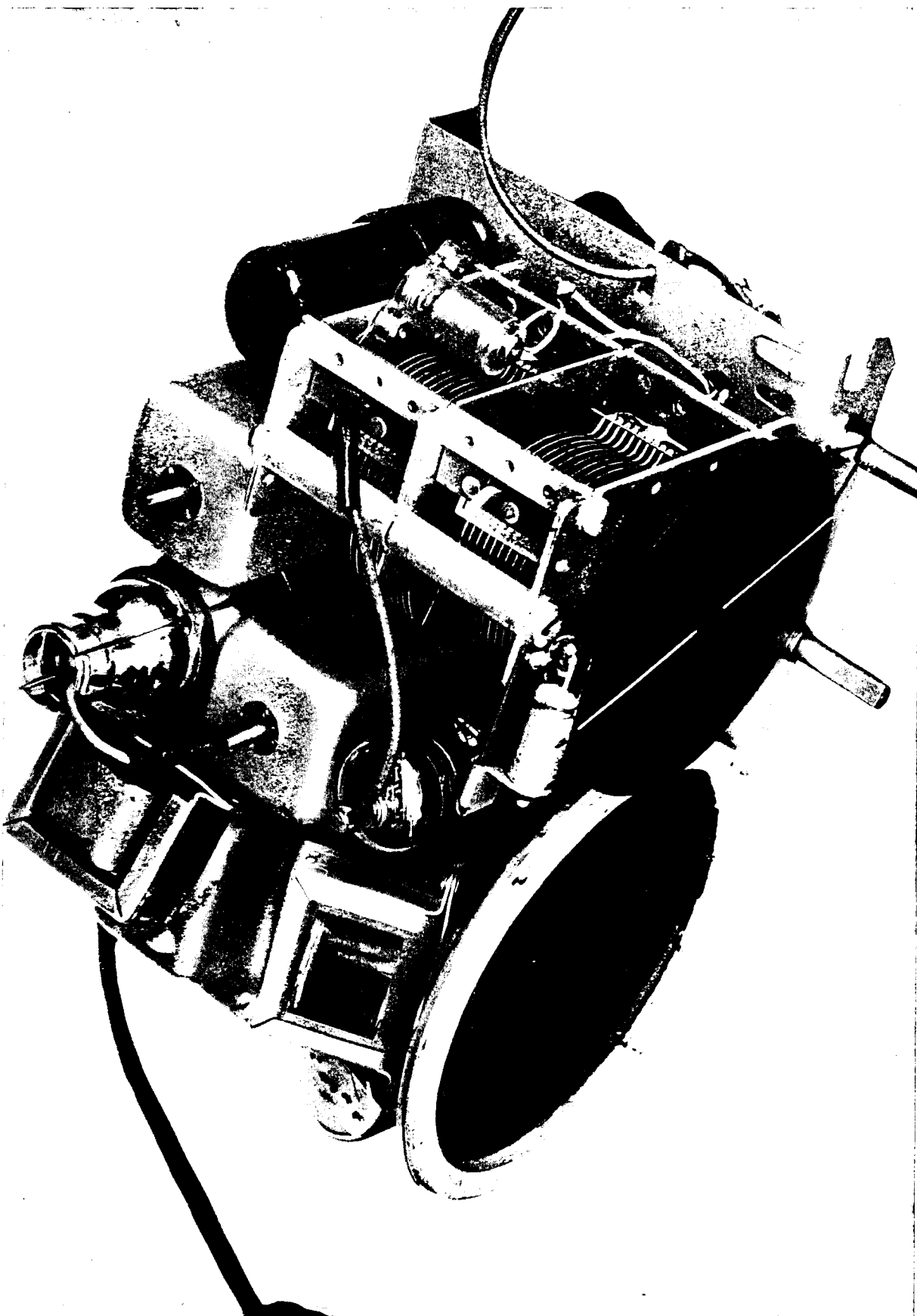
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



A B C D E F G H J K L M N P Q

PARTS LAYOUT—S.T.C. MODEL 141. PHOTO 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



A B C D E F G H J K L M N P Q

PARTS LAYOUT—S.T.C. MODEL 141. PHOTO 2