



# RADIO SERVICE BULLETIN

Issue No. 54.

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Subject: Model B275

## SPECIFICATION OF S.T.C. MODEL B 275

**CIRCUIT:** Five Valve dual wave A.C. operated superheterodyne using converter, one stage of I.F. amplification, detector-audio stage, power output stage, and H.T. Rectifier, A.V.C. inverse feedback, variable tone control.

**TUNING RANGE:**

Broadcast 535—1620 Kc/s.  
Short Wave 5.9—18.2 Mc/s.

**INTERMEDIATE FREQUENCY:** 455 Kc/s.

**VALVE COMPLEMENT:**

V1 Frequency Changer 6K8G.  
V2 I.F. Amplifier 6U7G.  
V3 Detector-Audio 6B8G.  
V4 Power Output 6V6G.  
V5 H.T. Rectifier 5Y3G.

**POWER SUPPLY:** 200-240 Volts 40-60 Cycles A.C. consumption 55 watts.

**LOUD SPEAKER:** Permag 12 inch cone 5,000 ohm Transformer.

**CIRCUIT VOLTAGES:**

	Plate	Screen	Osc. Plate	Cathode	Heater
V1	240	85	130	2.5	6.2
V2	240	85	—	2.5	6.2
V3	* 45	* 25	—	2	6.2
V4	230	240	—	+	6.2
V5	290/290	—	—	265	5

+ — 12 Volts applied to grid

\* As read on 250 Volt scale.

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—V1 grid 25 microvolts.  
I.F. Sensitivity—V2 grid 2.5 millivolts.  
Broadcast Sensitivity 5 microvolts.  
Shortwave Sensitivity 20 microvolts.

These figures are related to an audio frequency output of 14 volts measured between plate of V4 and CHASSIS through a series condenser of .1 MFD capacity.

**ALIGNMENT FREQUENCIES:**

Broadcast 1400 Mc/s and 600 Kc/s.  
Shortwave 16 Mc/s and 6 Mc/s.

**CHECK POINTS:**

Broadcast 1000 Kc/s.  
Shortwave 10 Mc/s.

