RADIO SERVICE BULLETIN

Issue No. 32
Date of issue: February, 1948
Subject: Model D-259

SPECIFICATION FOR S.T.C. MODEL D-259

CIRCUIT: 5 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. variable tone control.

TUNING RANGE: Broadcast 540—1620 Kc/s.
Short Wave 5.9—18.2 Mc/s.

INTERMEDIATE FREQUENCY: 455 Kc/s.

VALVE COMPLEMENT:

V1 Frequency Changer 6J8GA.
V2 I.F. Amplifier 6U7G.
V3 Detector-audio 6B6G.
V4 Power output 6F6G
V5 H.T. Rectifier 5Y3GT.

POWER SUPPLY:

200-240 Volts 50 cycles A.C.
Consumption 60 watts.

LOUD SPEAKER:

Electrodynamic 8 or 12 inch cone, 2000 ohms field, 5000 ohms transformer.

CIRCUIT VOLTAGES:

	Plate	Screen	Osc. Plate	Cathode	Heater
V1	240	85	135	3	6.3
V2	240	85	—	1	6.3
V3	125	—	—	1	6.3
V4	225	240	—	*—	6.3
V5	—	—	—	—	5

* -16 Volts applied to grid.

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

MEASUREMENT SPECIFICATION:

I.F. Sensitivity—V1 grid—30 microvolts.
I.F. Sensitivity—V2 grid—2 millivolts.
Broadcast sensitivity—12 microvolts.
Short Wave sensitivity—20-50 microvolts.

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

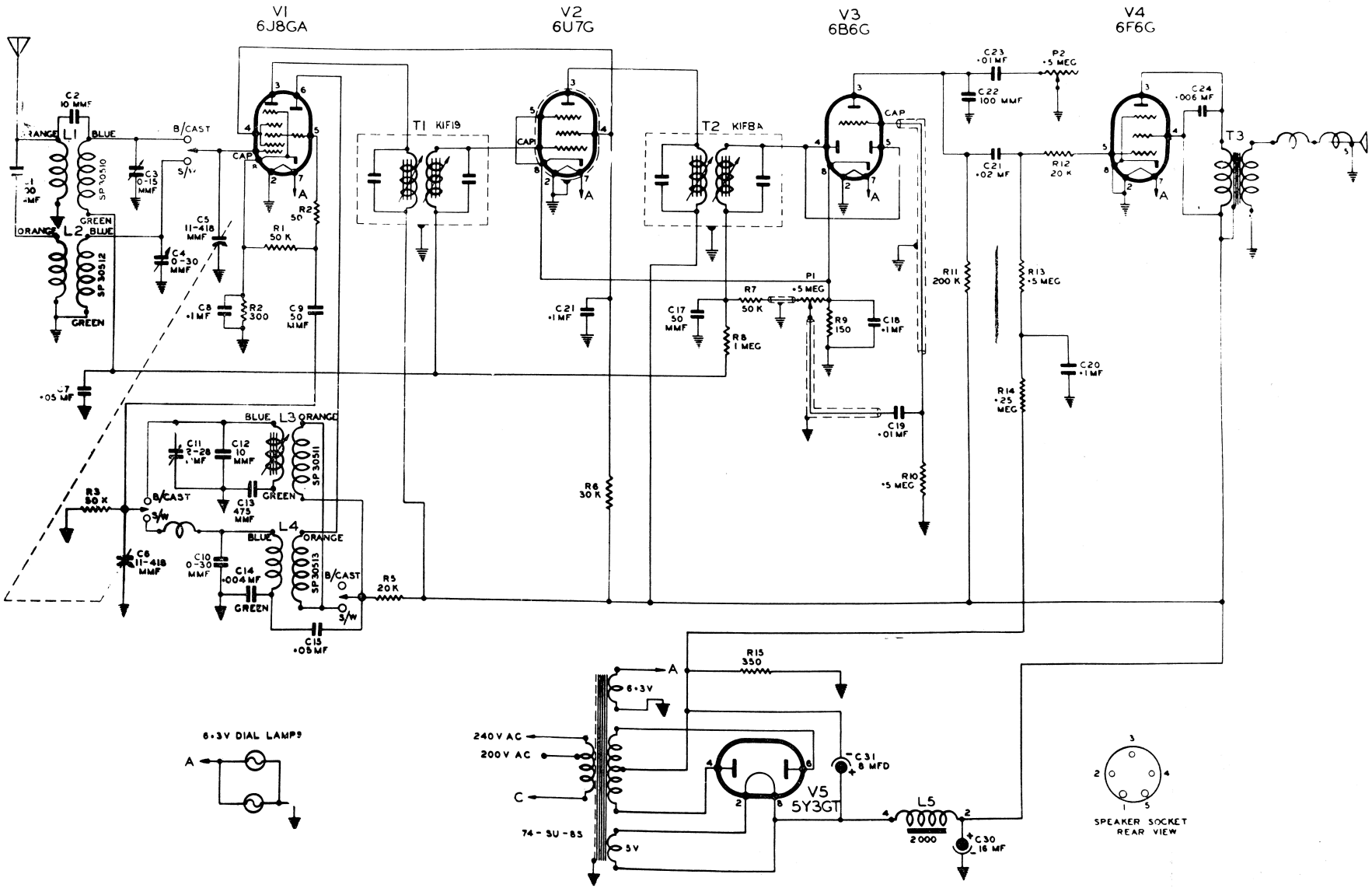
ALIGNMENT FREQUENCIES:

Broadcast 1400 Kc/s and 600 Kc/s.
Short Wave 16 Mc/s and 6 Mc/s.

CHECK POINTS:

Broadcast 1000 Kc/s.
Short Wave 10 Mc/s.

MODEL D-259


V1
6J8GA
V2
6U7G
V3
6B6G
V4
6F6G
T1 KIF19
T2 KIF8A
T3
L1
L2
L3
L4
L5
V5
5Y3GT
B/CAST
S/W
CAP
BLUE
GREEN
ORANGE
C2
10 MMF
C3
0-15
MMF
C4
0-30
MMF
C5
11-418
MMF
C6
11-418
MMF
C8
·1 MF
C9
50
MMF
C11
3-28
·1 MF
C12
10
MMF
C13
475
MMF
C10
0-30
MMF
C14
·004 MF
C15
·05 MF
C21
·1 MF
C17
50
MMF
C18
·1 MF
C19
·01 MF
C20
·1 MF
C23
·01 MF
C22
100 MMF
C24
·006 MF
C21
·02 MF
C31
8 MFD
C30
16 MF
R1
50 K
R2
50
R2
300
R3
50 K
R5
20 K
R6
30 K
R7
50 K
R8
1 MEG
R9
150
R10
·5 MEG
R11
200 K
R12
20 K
R13
·5 MEG
R14
·25
MEG
R15
350
P1
·5 MEG
P2
·5 MEG
6·3V
240 V AC
200 V AC
C
74-SU-83
5V
6·3V DIAL LAMPS
SPEAKER SOCKET
REAR VIEW