

ZENITH RADIO CORP.

MODELS 5R312, 5R316, 5R317
5R337, 5R303

Chassis 5528

Schematic, Parts

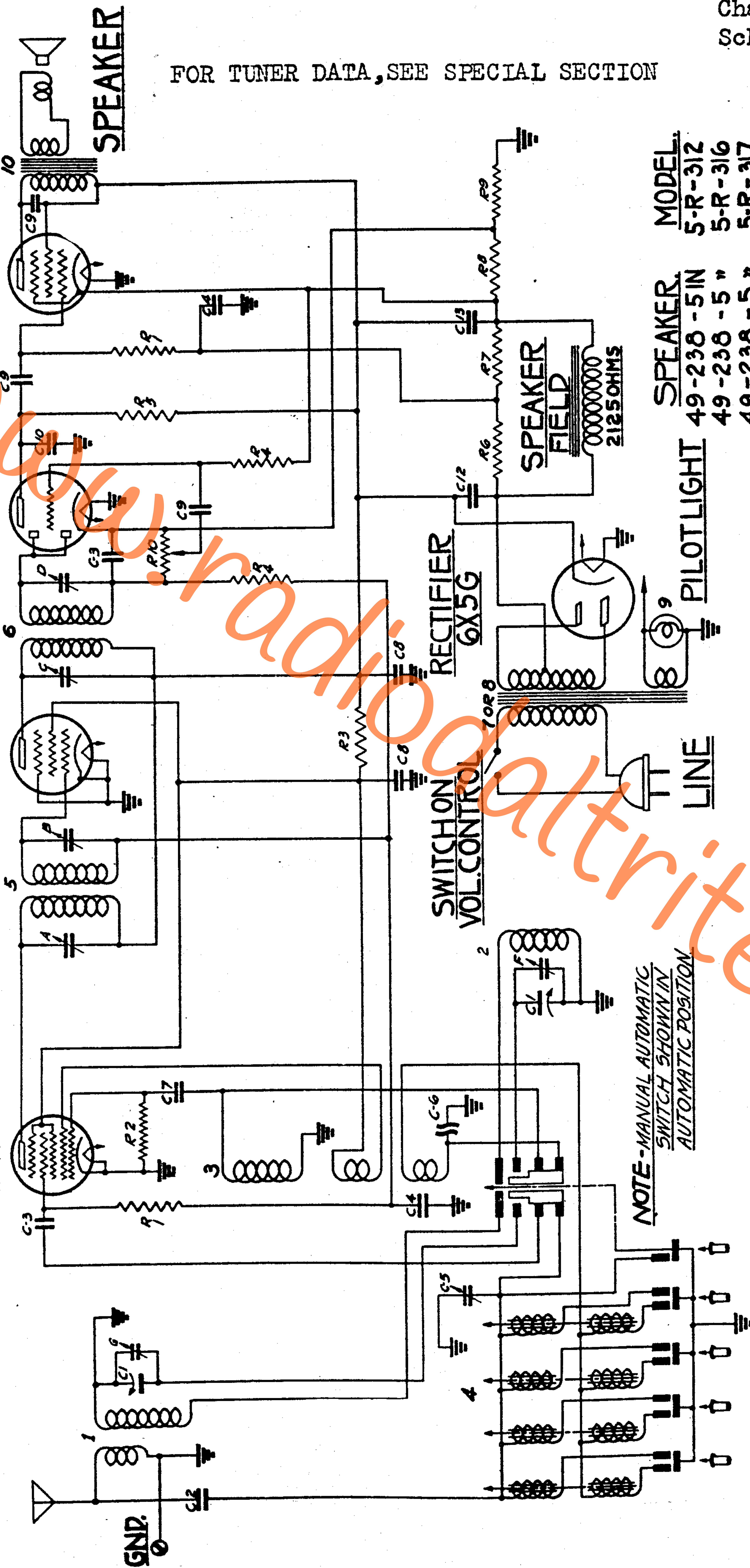
FOR TUNER DATA, SEE SPECIAL SECTION

POWERAMP
6K6G

DET.AMP.
6Q7G

I.F.
6K7G

CONVERTER
6A8G



MODEL:
5-R-312
5-R-316
5-R-317
5-R-337
5-R-303

SPEAKER:
49-238-5IN
49-238-5"
49-238-5"
49-238-5"
49-238-5"

I.F. FREQUENCY 455 K.C.
5 TUBE SUPERHETERODYNE
CHASSIS NO 5528 A.C.
ZENITH RADIO CORPORATION
CHICAGO, ILL.

NOTE - MANUAL AUTOMATIC SWITCH SHOWN IN AUTOMATIC POSITION

DIAG. No.	PART No.	DESCRIPTION	DIAG. No.	PART No.	DESCRIPTION
C-1	22-695	THU GANG VAR. COND.	R-1	63-597	470 M OHM
C-2	22-289	50 M MFD.	R-2	63-593	47 M OHM
C-3	22-162	.0001 MFD.	R-3	63-208	12 M OHM
C-4	22-250	.05 MFD.	R-4	63-271	1 MEG OHM
C-5	22-519	TRIMMER COND.	R-5	63-296	220 M OHM
C-6	22-729	COMPENSATING COND.	R-6	63-658	390 M OHM
C-7	22-182	.00025 MFD.	R-7	63-260	100 M OHM
C-8	22-212	.05 MFD.	R-8	63-573	80 OHM WIRE WOUND
C-9	22-196	.01 MFD.	R-9	63-686	150 OHM WIRE WOUND
C-10	22-147	.0005 MFD.	R-10	63-955	220 M OHM VOL. CONT.
C-12	22-691	8 MFD. ELECTROLYTIC 450V	A	5-590	ANTENNA COIL ASSEMB.
C-13	22-698	8 MFD. ELECTROLYTIC 350V	B	5-609	OSC. COIL ASSEMB.
			C	20-187	COMPENSATING COIL
			D		
			E		
			F		
			G		
			4		
			5	95-513	1ST I.F. TRANS.
			6	95-520	2ND I.F. TRANS.
			7	95-521	POWER TRANS. (17H, 50-60~)
			8	95-523	POWER TRANS. 25~
			9	100-96	PILOT LIGHT .25A 6.3V
			10		SPEAKER TRANS.
			A		1ST I.F. TRANS. PRI.
			B		1ST I.F. TRANS. SEC.
			C		2ND I.F. TRANS. PRI.
			D		2ND I.F. TRANS. SEC.
			E		BROADCAST OSC. (BY GANG)
			F		ANTENNA .50D.C. BATT. (BY GANG)
			G		

MODELS 5R303, 5R312, 5R316
5R317, 5R337

ZENITH RADIO CORP.

Chassis 5528

Socket, Trimmers, Voltage
Alignment

NOTE

Voltages measured with a 1000 ohm per volt meter from chassis to socket contacts. Antenna disconnected — volume control on full.

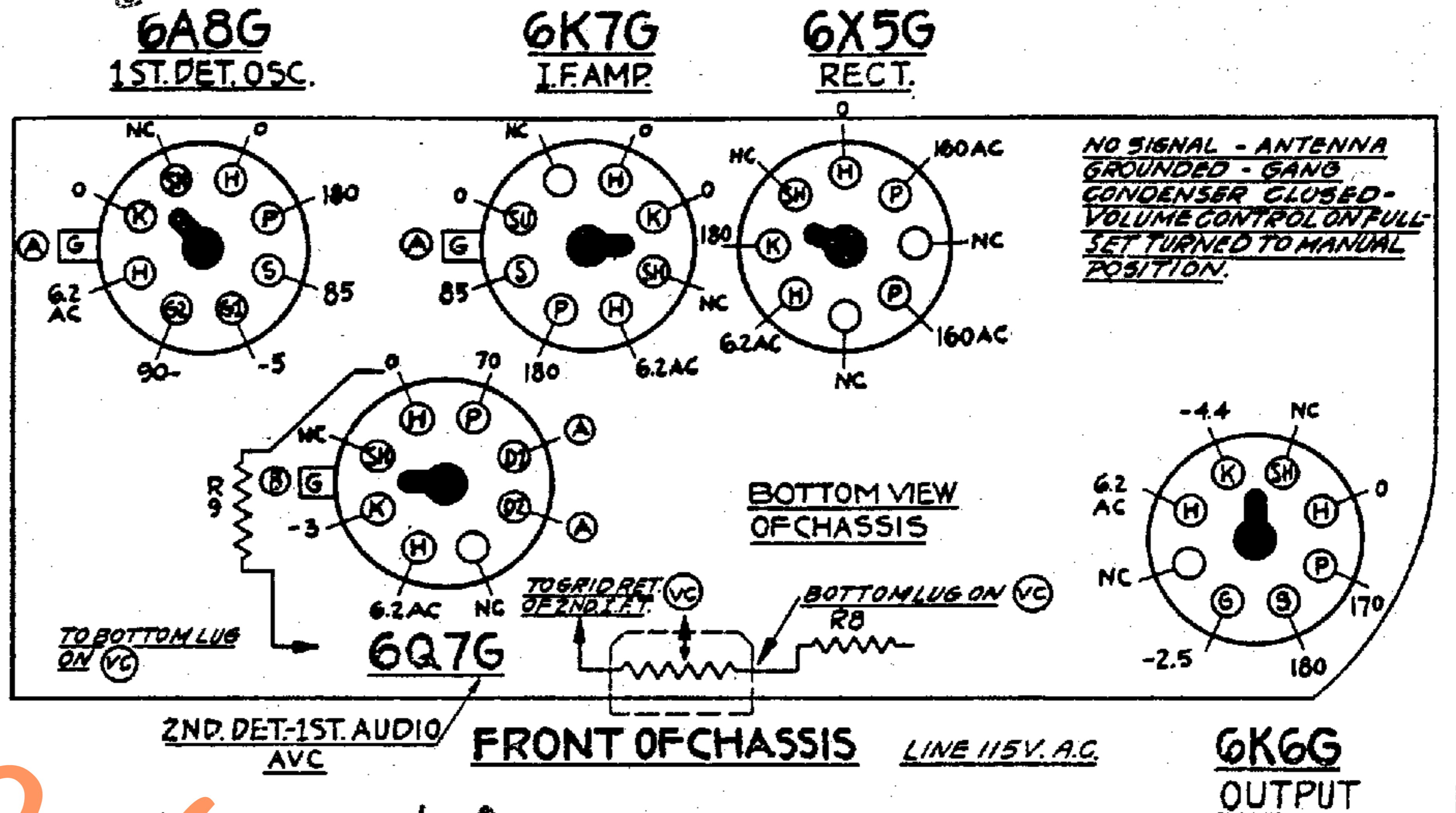
Line voltage 115 v. Consumption 45 watts.

Power output 3.5 watts.

(A) Bias for 6A8 — 6K7 and diodes of 6Q7 measured across resistor R9.

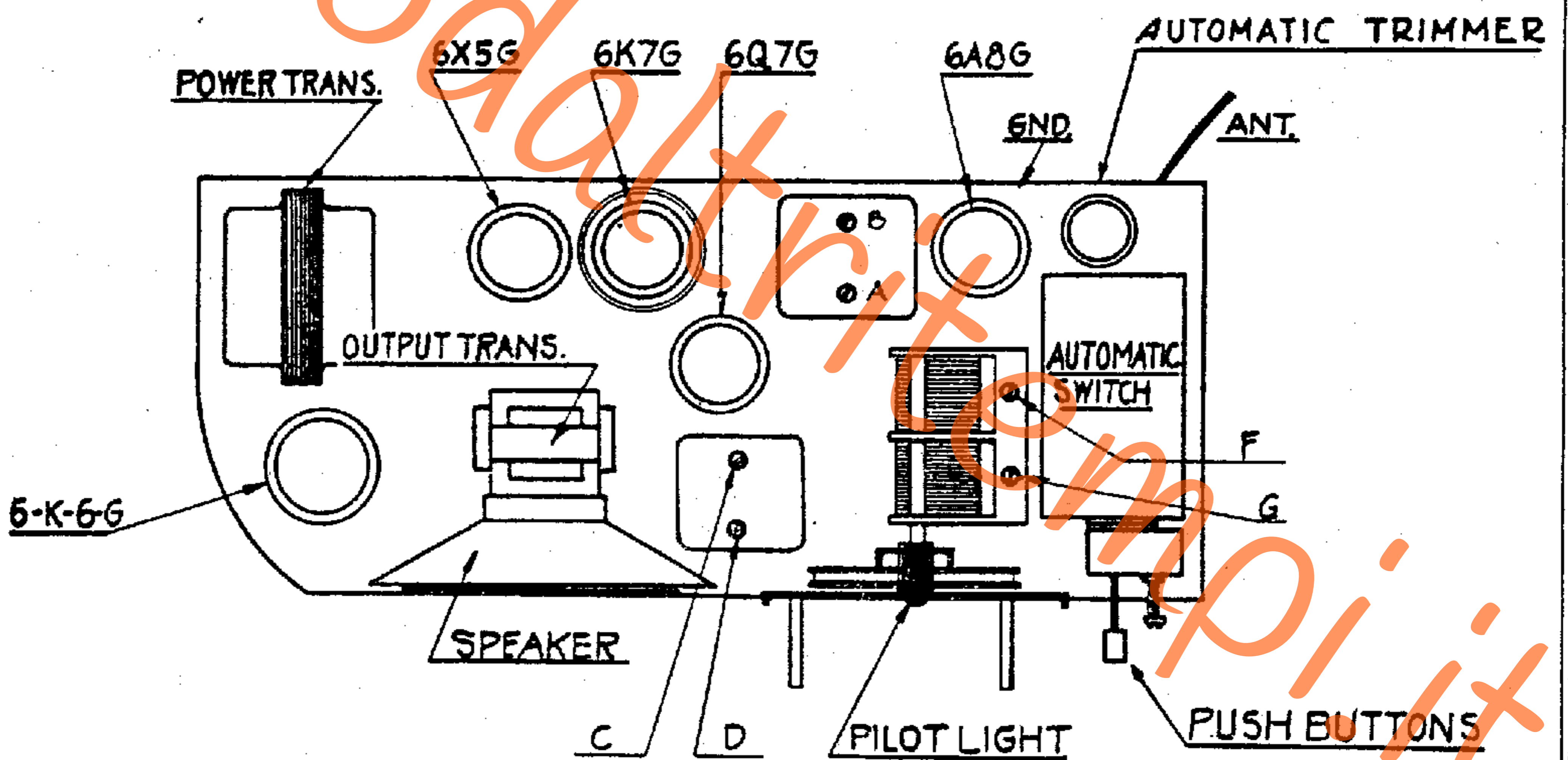
(B) Bias for triode section of 6Q7 and 6K6 measured across R8 and R9.

SOCKET VOLTAGES



LEGEND

- NC — No Connection
- VC — Volume Control
- SH — Shield
- H — Heater
- P — Plate
- S — Screen
- G — Grid
- SU — Suppressor
- D — Diode
- K — Cathode
- F — Filament



Location of Tubes and Trimmers

Models 5R303, 5R312, 5R316, 5R317, 5R337

CHASSIS No. 5528

ALIGNMENT PROCEDURE

Operation	Connect Test Oscillator to	Dummy Antenna	Set Test Osc. to	Band	Set Dial At	Adjust Trimmers	Purpose
1	1st Det. Grid	1/2 Mfd.	455	Br'dc't	600	ABCD	I. F. Alignment
2	Rec. Ant. Lead	200 Mmfd.	1500	"	1500	F	Set Osc. to Scale
3	" " "	200 Mmfd.	1500	"	1500	G	Al'gment of Ant.