

Zenith Radio Corp.

Model: 4B639

Chassis:

Year: Pre March 1942

Power:

Circuit:

IF:

Tubes:

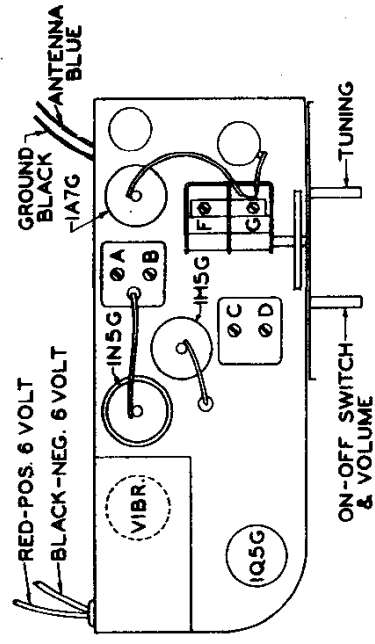
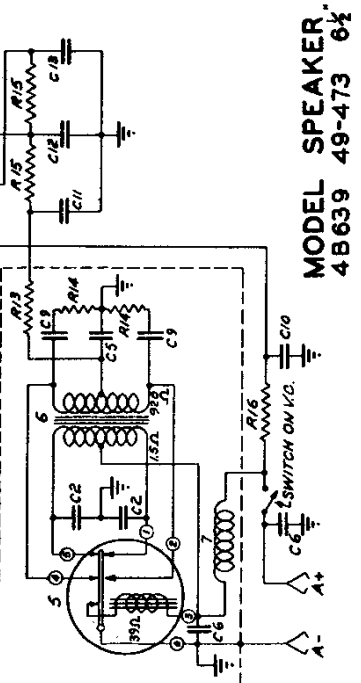
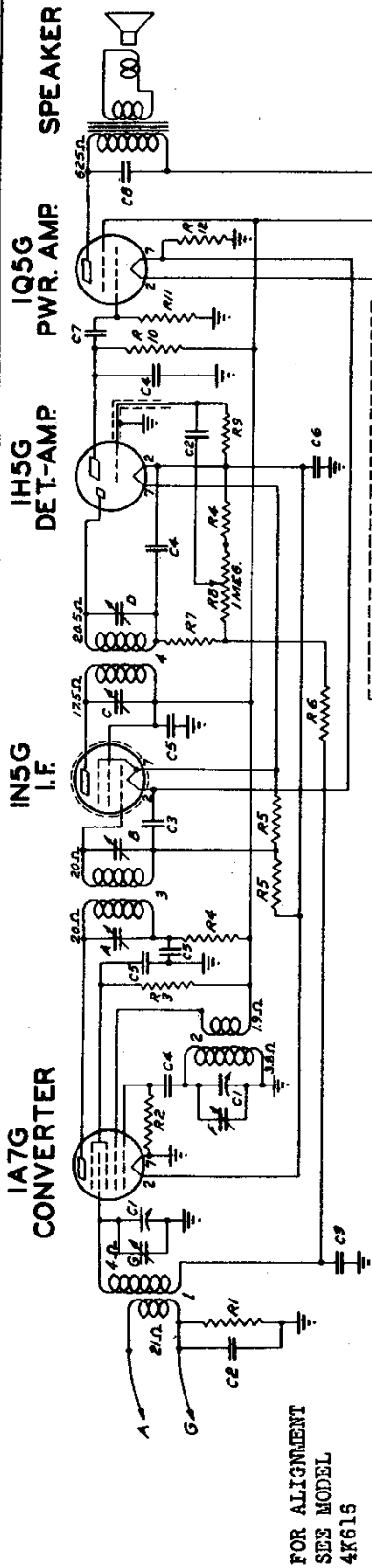
Bands:

Resources

Riders Volume 13 - ZENITH 13-1

Riders Volume 13 - ZENITH 13-3

ZENITH RADIO CORP.



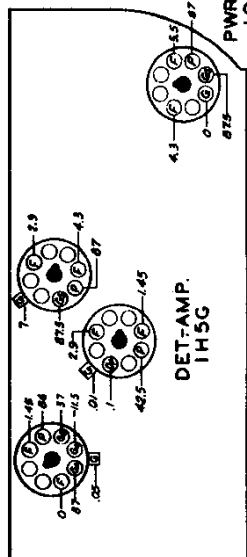
DEMOTES CHASSIS 'GROUND'

DWG. NO.	PART NO.	DESCRIPTION	DWG. NO.	PART NO.	DESCRIPTION
C1	22-695	TWO GANG VARIABLE	R1	63-597	470M OHM
C2	22-826	.01 MFD.	R2	63-595	100M OHM
C3	22-829	.05 MFD.	R3	63-594	68M OHM
C4	22-162	.0001 MFD.	R4	63-593	1000 OHM
C5	22-828	.05 MFD.	R5	63-296	200M OHM
C6	22-199	.5 MFD.	R6	63-669	3.9 MEG OHM
C7	22-243	.01 MFD.	R7	63-553	47M OHM
C8	22-946	.04 MFD.	R8	63-1028	VOLUME CONTROL
C9	22-961	500 MFD. ELECTROLYTIC	R9	63-329	15 MEG OHM
C10	22-961	500 MFD. ELECTROLYTIC	R10	63-1060	2.2 MEG OHM
C11	22-748	.15 MFD.	R11	63-1060	90 OHM WHEN WOUND
C12	22-748	.15 MFD.	R12	63-577	100 OHM
C13			R13	63-697	100 OHM
			R14	63-605	1000 OHM
			R15	63-1061	7 OHM

I.F. FREQUENCY 455 KC.
 4 TUBE SUPERHETERODYNE
 CHASSIS No 4B04-6V-SINGLE BAND

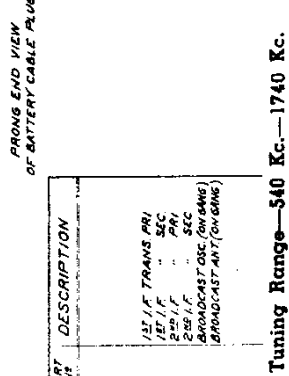
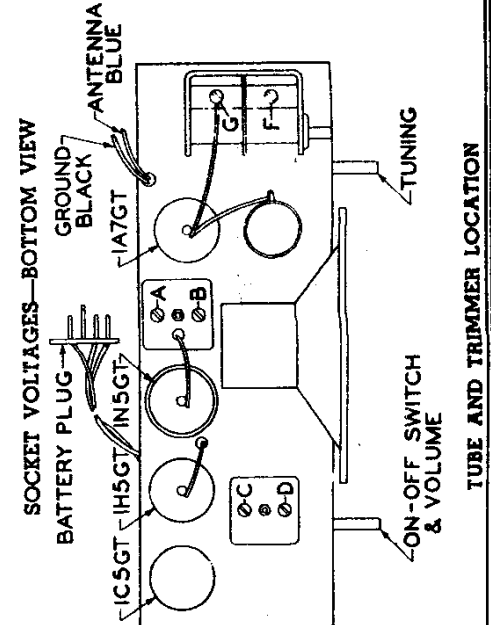
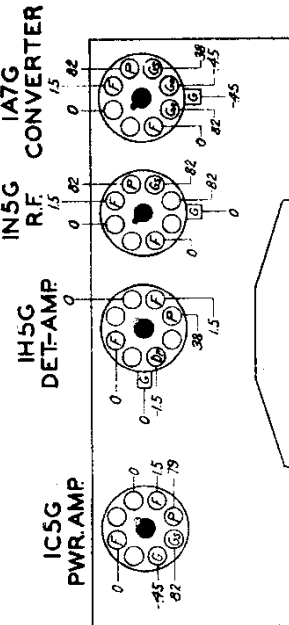
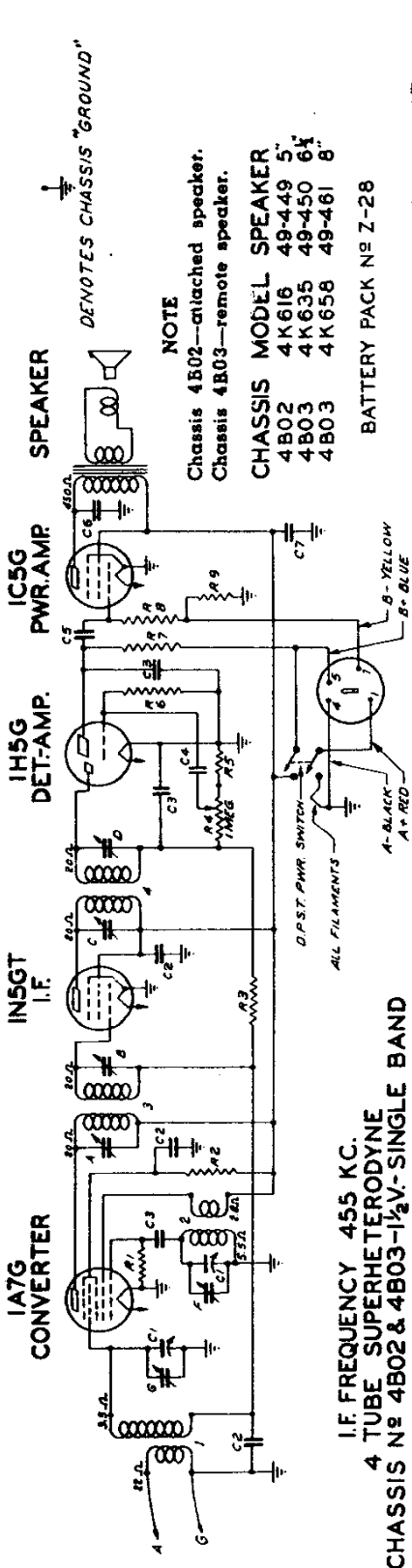
Antenna disconnected volume control full on.
 Battery voltage 6 volt.
 Battery consumption—.5 ampere.
 Power Output—.37 watts.

Stage Gains:
 Ant. to conv. grid—4.9X at 1000 Kc.
 Conv. grid to I. F. grid—50X at 455 Kc.
 Overall audio—448X at .050 watt—400 cycles.
 Tuning range—540 Kc.—1740 Kc.



ZENITH RADIO CORP.

MODELS 4K616, 4K2616, Ch. 4B02;
4K635, 4K658, Ch. 4B03
MODEL 4B639



Tuning Range—540 Kc.—1740 Kc.

Stage Gains
Bc. and I.F.
Ant. to conv. grid—5.7X at 1000 Kc.
Conv. grid to I.F. grid 69X at 455 Kc.
Overall audio 257X at .050 watt, 400 cycles.

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
C1	50-1250 TNG. GANG VARIABLE—4803	RA	65-1238 VOLUME CONTROL—4803		
C2	50-1820 TNG. GANG VARIABLE—4803	R1	65-520 VOLUME CONTROL—4803		
C3	22-162 .001 MFD.	R2	65-520 4700 OHM	A	1/2 I.F. TRANS PRI
C4	22-162 .001 MFD.	R3	65-976 1/5 MEGOHM	B	1/2 I.F. SEC
C5	22-243 .01 MFD.	R4	65-271 1/2 MEGOHM	C	250 I.F. PRI
C6	22-448 .004 MFD.	R5	65-608 2.2 MEGOHM	D	250 I.F. SEC
C7	22-664 .004 ELECTROLYTIC/150X	R6	65-634 220 OHM	E	250 I.F. PART SEC
R1	63-654 180 M OHM			F	BROADCAST ANT.(50V GMS)
R2	65-554 68 M OHM			G	
R3	65-665 .33 MEGOHM				

I.F. FREQUENCY 455 KC.
4 TUBE SUPERHETERODYNE
CHASSIS NO 4B02 & 4B03—1 1/2 V.—SINGLE BAND

All voltages measured with a 1000 ohm per volt meter from chassis to socket contact indicated.
All voltages are positive D.C. unless marked otherwise.
Volume control on full.
Battery Z28
Power consumption—1.3 watts.
Power output—.28 watts.

CHASSIS 4B04 ALIGNMENT PROCEDURE CHASSIS 4B02, 4B03

Operation	Connect Test Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Set Dial At	Adjust Trimmers	Purpose
1	Converter Grid	1/2 Mfd.	455 Kc.	Broadcast	600 Kc.	A, B, C, D	I. F. Alignment
2	Ant.-Gnd.	200 Mmf.	1500 Kc.	Broadcast	1500 Kc.	F	Set Oscillator to Scale
3	"	260 Mmf.	1400 Kc.	Broadcast	1400 Kc.	G	Alignment of Antenna