

## Zenith Radio Corp.

**Model:** 5R680X

**Chassis:**

**Year:** Pre March 1942

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

### Resources

[Riders Volume 13 - ZENITH 13-5](#)

[Riders Volume 13 - ZENITH 13-11](#)

## ZENITH RADIO CORP.

MODEL 4K640  
 MODEL 5R680X  
 MODEL 5G603  
 MODELS 6G638, 6G660

## Model 4K640 ALIGNMENT PROCEDURE Chassis No. 4B05

Operation	Conn. Test Osc. to	Dummy Ant.	Input Sig. Freq.	Band	Set Dial At	Trimmers	Purpose
1	Converter Grid	.5 Mfd.	455 Kc.	Broadcast	600 Kc.	A B C D	Align I. F.
2	Ant.—Gnd.	400 Ohms	18 Mc.	Short Wave	18 Mc.	K	Set Osc. to Scale
3	Ant.—Gnd.	200 Mmf.	1600 Kc.	Broadcast	1600 Kc.	F	Set Osc. to Scale
4	Ant.—Gnd.	200 Mmf.	1400 Kc.	Broadcast	1400 Kc.	G	Align Ant.
5	Ant.—Gnd.	200 Mmf.	600 Kc.	Broadcast	600 Kc.	J	Rock Gang & Adj. to Max.
6	Ant.—Gnd.	400 Ohms	18 Mc.	Short Wave	18 Mc.	M	Rock Gang

## Model 5G603

Operation	Connect Test Oscillator to	Dummy Antenna	Set Test Oscillator to	Band	Set Dial At	Adjust Trimmers	Purpose
1	Converter Grid	.5 mfd.	455	—	600	A B C D	I. F. Alignment
2	Single Turn Loop Coupled Loosely to Wave Magnet	—	1400	—	1400	F	Set Osc. to Scale
3		—	1400	—	1400	G	Alignment of Antenna

Gnd. of test osc. connected to No. 8 pin of ILA6 socket.

## Model 5R680X

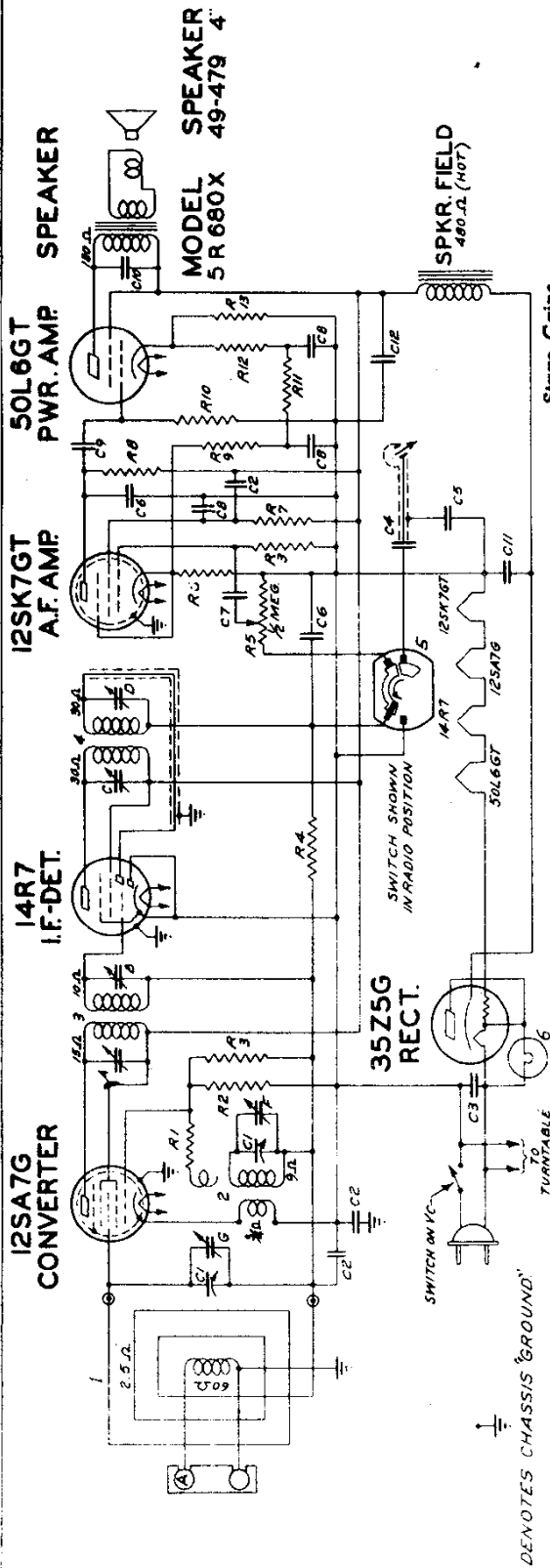
Operation	Connect Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Set Dial At	Trimmers	Purpose
1	Converter Grid	.5 mfd.	455 Kc.	B.C.	1600 Kc.	A. B. C. D	Align I.F.
2	Ant. & Grnd with 10 ohm shunt	.5 mfd.	1600 Kc.	"	1600 Kc.	F	Set to Scale
3	"	.5 mfd.	1400 Kc.	"	1400 Kc.	H. G	Align Ant.

## Models 6G638—6G660 Chassis No. 6B09

Operation	Conn. Test Osc. to	Dummy Ant.	Input Sig. Freq.	Band	Set Dial At	Trimmers	Purpose
1	Converter Grid	.1 Mfd.	455 Kc.	B.C.	600 Kc.	A B C D	Align I.F.
2	Ant. & Grnd with 10 ohm shunt	400 Ohm	18 Mc.	S.W.	18 Mc.	K	Set to Scale
3	"	"	16 Mc.	S.W.	16 Mc.	M	Align Ant.
4	"	"	5 Mc.	Police	5 Mc.	N	Set to Scale
5	"	"	"	"	"	Q	Align Ant.
6	"	200 mmf	1800 Kc.	B.C.	1800 Kc.	F	Set to Scale
7	"	"	1700 Kc.	"	1700 Kc.	G—H	Align R.F. & det.
8	"	"	600 Kc.	"	600 Kc.	J	Rock gang & Adj. padder
9	"	"	1800 Kc.	"	1800 Kc.	F—G—H	Repeat 6 & 7

ZENITH RADIO CORP.

MODEL 5R680X, 5R680XJ,  
Chassis 5B14



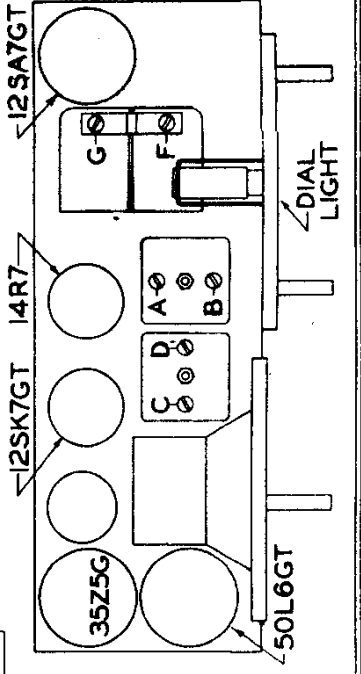
Stage Gains  
Bc. and I.F.

Ant. to conv. grid—5.8 × at 1000 Kc.  
Conv. grid to I. F. grid—57 × at 455 Kc.  
Overall audio—222 × at .35 watt, 400 cycles.

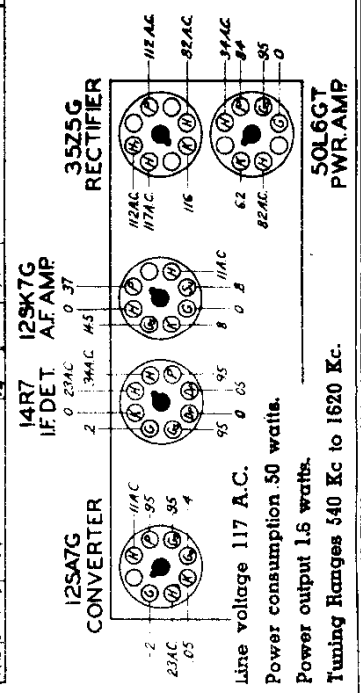
I.F. FREQUENCY 455 KC.  
5 TUBE SUPERHETERODYNE  
CHASSIS №5B14-A-C-PHONO

DIAG. PART NO.	PART NO.	DESCRIPTION	DIAG. PART NO.	DESCRIPTION	
3	95-811	1ST I.F. TRANSFORMER	1	59599	HAVERMAGNET
4	95-812	2ND I.F. TRANSFORMER	2	59450	O-SCALATOR COIL ASSEMBLY
5	85-262	PHONO-RADIO SWITCH			
6	100-67	DIAL LIGHT 6.3 V. .15A.			
1	33-976	.15 MEGOHM			
2	63-600	2.2 MEGOHM			
3	63-112	VOLUME CONTROL			
4	63-634	250 OHM			
5	63-778	470 OHM			
6	63-445	100 OHM			
7	63-439	2700 OHM			
8	63-597	4700 OHM			
9	63-637	4700 OHM			
10	63-639	6800 OHM			
11	63-1219	150V			
12	63-1219	150V			
13	63-1219	150V			
14	63-579	220 OHM			
15	63-589	10M OHM			

DENOTES CHASSIS 'GROUND'



FOR ALIGNMENT  
SEE INDEX



Line voltage 117 A.C.  
Power consumption .50 watts.  
Power output 1.5 watts.  
Tuning Ranges 540 Kc to 1620 Kc.