

BOTTOM VIEW OF TUBE SOCKETS

6SK7GT R.F.

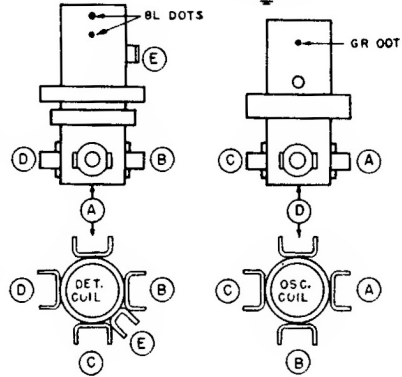
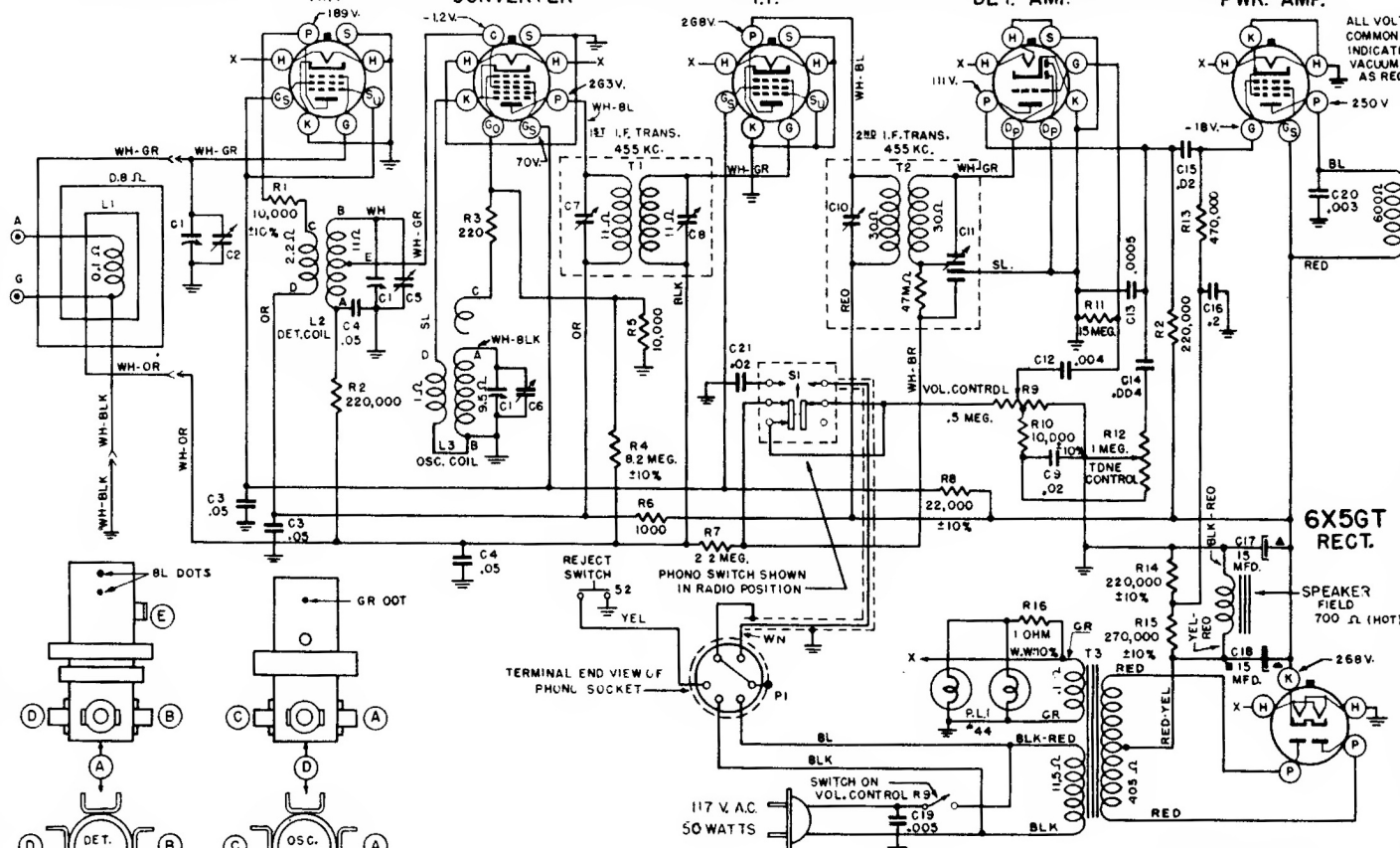
6SA7GT CONVERTER

6SK7GT I.F.

6SQ7GT DET.-AMP

6K6GT PWR. AMP.

ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH AN AC, D.C. OR VACUUM TUBE VOLTMETER AS REQUIRED.



TERMINAL END VIEW OF PHONO SOCKET

PHONO SWITCH SHOWN IN RADIO POSITION

REJECT SWITCH

SWITCH ON VOL. CONTROL R9

117 V. AC 50 WATTS

⊥ DENOTES CHASSIS

I.F. FREQUENCY 455 KC.  
TUNING RANGE 535-1620 KC.

ALL RESISTORS ± 20% TOLERANCE UNLESS OTHERWISE SPECIFIED.

SP1

DIAG NO.	PART NO.	DESCRIPTION
C1	22-1569	3-GANG VARIABLE
C2	DN C1	BROADCAST ANT. TRIMMER
C3	22-171	.05 MFD. 600 V.
C4	22-829	.05 MFD. 200 V.
C5	DN C1	BROADCAST DET. TRIMMER
C6	DN C1	BROADCAST OSC. TRIMMER
C7	DN T1	I.F. TRANS. PRI. TRIMMER
C8	DN T1	I.F. TRANS. SEC. "
C9	22-327	.02 MFD. 200 V.
C10	DN T2	2ND I.F. TRANS. PRI. TRIMMER
C11	DN T2	2ND I.F. TRANS. SEC. "
C12	22-1362	.004 MFD. 600 V.
C13	22-834	.0003 MFD. 600 V.
C14	22-448	.004 MFD. 600 V.
C15	22-630	.02 MFD. 600 V.
C16	22-136	.2 MFD. 200 V.
C17	22-1372	15 MFD. ELECTRO 330 V.
C18	22-1372	15 MFD. " 430 V.
C19	22-1041	.005 MFD. 400 V.
C20	22-246	.005 MFD. 600 V.
C21	22-1368	.02 MFD. 200 V.
R1	65-136	10M OHM 1 W.
R2	63-296	220 M OHM 1/4 W.
R3	63-379	22 OHM 1/4 W.
R4	63-675	6.2 MEG OHM 1/4 W.
R6	63-589	10 M OHM 1/4 W.
R6	63-603	1000 OHM 1/4 W.
R7	63-600	2.2 MEG OHM 1/4 W.
R8	63-1036	22 M OHM 2 W.
R9	63-1340	15 MEG VOLUME CONTROL
R10	63-641	10 M OHM 1/4 W.
R11	63-976	15 MEG OHM 1/4 W.
R12	63-1541	1 MEG. TCNE CONTROL
R13	63-397	470 M OHM 1/4 W.
R14	63-635	22 OHM OHM 1/4 W.
R15	63-656	270 M OHM 1/4 W.
R16	63-1223	1 OHM WIREWOUND 1/2 W.
L1	S-11302	WAVEMAGNET
L2	S-11165	DET. 6DL ASSEMBLY
L3	S-11164	D3C. "
T1	93-909	I.F. TRANSFORMER
T2	93-910	2ND I.F. "
T3	93-911	PWR. TRANS. 117V. 50-60V
PL1	10D-56	DIAL LIGHT 6.3V. 23A.
S1	63-337	PHONO-RADIO SWITCH
S2	66-349	REJECT SWITCH
SP1	49-616	5" DYNAMIC SPEAKER
P1	S-11167	PHONO CABLE ASSEMBLY



**MODELS 6R084**  
**CHASSIS Nos. 6C21**

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**CHASSIS Nos. 6C21**

Zenith Radio Corp.

A feature of chassis 6C21 is a high gain tuned R.F. stage ahead of the conventional superheterodyne circuit.

When making repairs or adjustments on the chassis be sure to have the Phono-Radio switch in Radio position (button out).

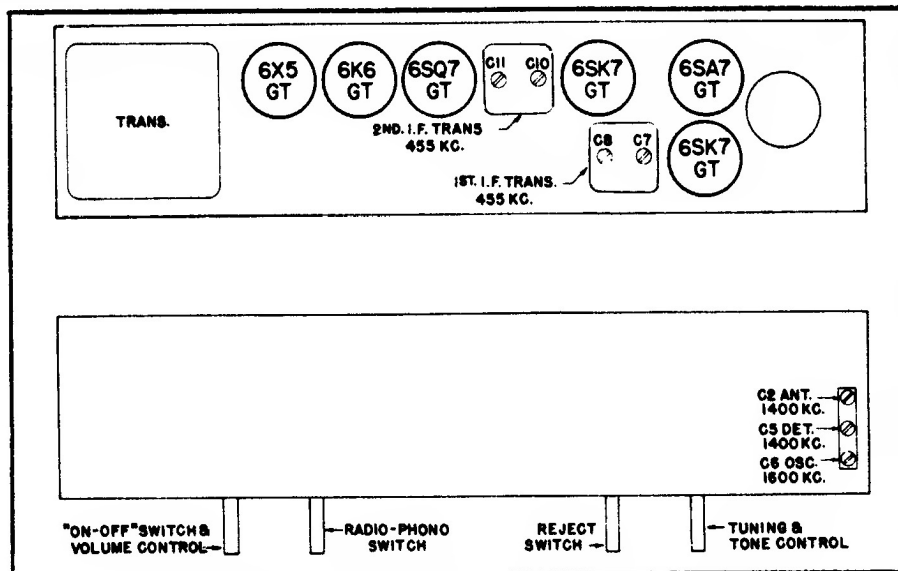
The Tone Control circuit used in chassis 6C21 is unusual. Attenuation or control occurs in both the grid and plate circuit of the triode section of the 6SQ7 tube. To increase the bass response Resistor R10 and Capacitor C9 boost the bass in the grid circuit.

Capacitor C14 and the Variable Tone Control R12 attenuate the highs in the plate circuit.

When the tone control R12 is in the treble position attenuation to highs are greatly reduced in the plate circuit and minimum bass boost takes place in the grid circuit.

When the tone control is in bass position, attenuation to the highs takes place in the plate circuit with maximum bass boost in the grid circuit.

The result of this arrangement allows a smooth tone control over the audio frequency range.



**TUBE AND TRIMMER LOCATION**

**ALIGNMENT PROCEDURE**

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIG. FREQUENCY	SET DIAL AT	TRIMMERS	PURPOSE
1	Converter Grid	0.5 Mfd.	455 Kc.	600 Kc.	C-7-, C-8, C-10, C-11	Align I F
2	One Turn Loop Coupled Loosely to Wave Magnet	--	1600 Kc	1600 Kc	C-6	Set Oscillator to Dial Scale
3		--	1400 Kc.	1400 Kc.	C-5	Align det.
4		--	1400 Kc.	1400 Kc.	C-2	Align Ant.