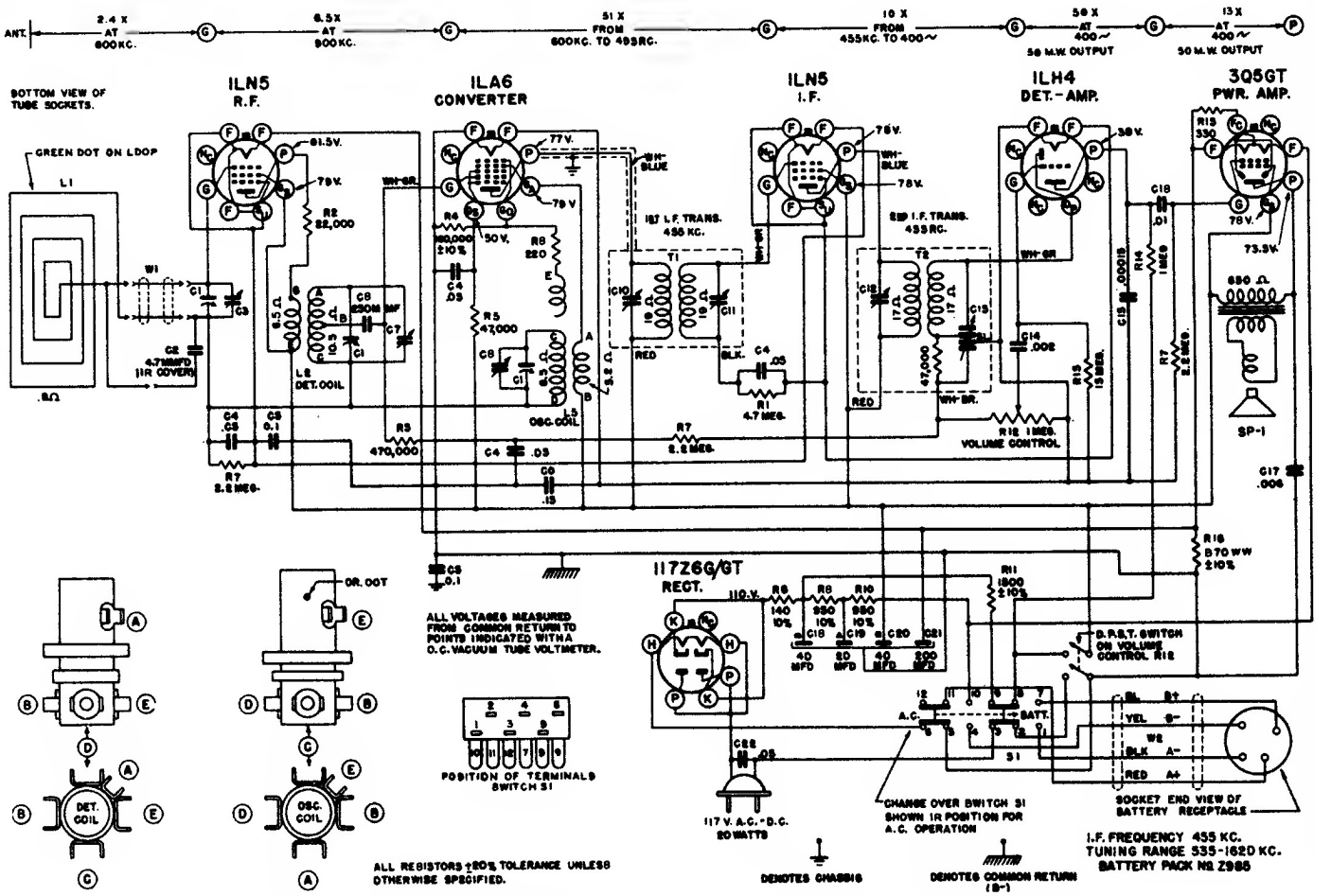
ZENITH

MODEL 6G001
CHASSIS No. 6C40

DIAG NO	PART NO	DESCRIPTION	
C1	22-1332	3-GANG VARIABLE	
C2	25-705 OR 25-706	4.7 MMF D. (IN COVER)	600 V.
C3	ON C1	BROADCAST ANT. TRIMMER	
C4	22-829	.05 MFD.	200 V.
C5	22-827	.1 MFD.	200 V.
C6	22-182	250 MMFD.	600 V.
C7	ON C1	BROADCAST DET. TRIMMER	
C8	22-1226	BROADCAST OSC. TRIMMER	
C9	22-1025	.15 MFD.	200 V.
C10	ON T1	1ST I.F. TRANS. PRI. TRIMMER	
C11	ON T1	1ST I.F. " SEC. "	
C12	ON T2	2ND I.F. " PRI. "	
C13	ON T2	2ND I.F. " SEC. "	
C14	22-482	.002 MFD.	600 V.
C15	22-470	.00015 MFD.	600 V.
C16	22-198	.01 MFD.	600 V.
C17	22-458	.006 MFD	600 V.
C18	22-1443	40 MFD. ELECTRO	150 V.
C19		20 MFD "	150 V.
C20		40 MFD "	150 V.
C21		200 MFD "	10 V.
C22	22-1017	.05 MFD	200 V.
R1	63-602	4.7 MEG. OHM	1/2 W.
R2	93-644	22 M OHM	1/2 W.
R5	93-719	470M OHM	1/2 W.
R6	65-775	180M OHM	1/2 W.
R7	63-715	47 M OHM	1/2 W.
R8	63-579	220 OHM	1/2 W.
R9	63-900	2.2 MEGOHM	1/2 W.
R8	93-1366	140 OHM	2 W.
R9 OR R10	63-1362 OR 63-1363	950 OHM	5 W.
R11	63-418	1900 OHM	1/2 W.
R12	65-1831	1 MEG. VOLUME CONTROL	
R13	63-979	15 MEGOHM	1/2 W.
R14	63-271	1 MEGOHM	1/2 W.
R15	63-580	330 OHM	1/2 W.
R16	93-1097	870 OHM WIREWOUND	1 W.
L1	510857	WAVE MAGNET ASSEM.	
L2	510884	DETECTOR COIL "	
L5	510893	OSCILLATOR "	
T1	85-604	1ST I.F. TRANSFORMER	
T2	95-905	2ND I.F. "	
SPI	49-512	6 1/2 P.M. SPEAKER	
S1	83-311	CHANGEOVER SWITCH	
W1	510892	WAVE MAGNET CABLE	
W2	511019	BATTERY CABLE	
BP1	5-27	BATTERY PACK Z985	



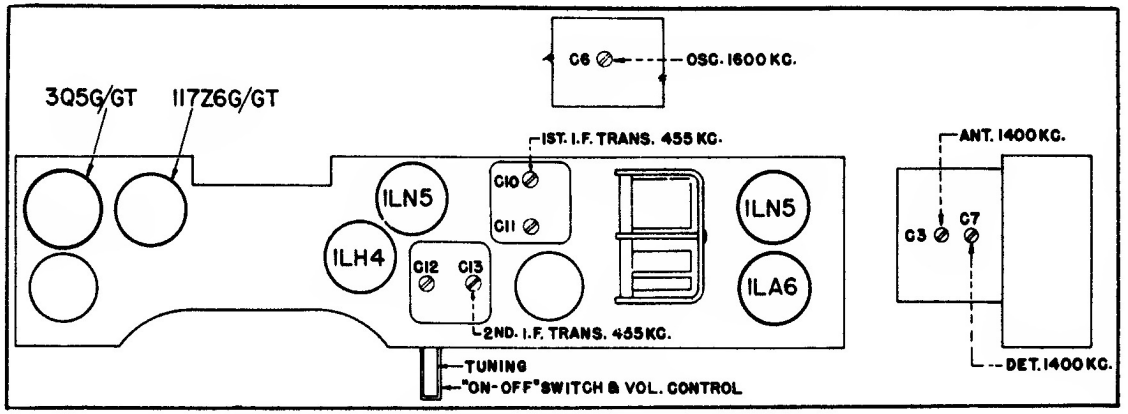
MODEL 6G001

CHASSIS No. 6C40

Zenith Radio Corp.

The 6C40 chassis is an AC, DC or battery operated superheterodyne circuit with a stage of RF amplification. The chassis is isolated from the DC circuit, and all measurements must be made from a common negative point. The most convenient place to reach this negative point is the terminal strip to which C5 is connected. The DC resistance from chassis to any circuit must be almost infinite. If any circuit becomes grounded a hum will appear. Microphonic tubes will cause audio howl. Check 1LA6.

The wavemagnet is connected to the chassis through the hinges in the cabinet, snaps and flexible leads. If the RF becomes weak or dead, check resistance of wavemagnet at condenser gang. The DC resistance across the two leads should be approximately 1 ohm. If the circuit is open, remove the two screws that hold the handle and top panel. When the top is removed, the wavemagnet connecting leads will be visible for inspection. Also loosen the snap-on socket and check for shorted or broken leads.



TUBE AND TRIMMER LOCATION

IF Alignment: Remove the chassis from the cabinet and arrange the units so that the wavemagnet can be plugged in. All the connections and adjustments can be made from the top of the chassis. Connect a signal generator, through a .1 mfd. dummy antenna, to the lug on top of the center section of the gang condenser (converter grid) and condenser gang frame. Connect an output meter across the voice coil of the speaker (two lugs provided). Set the signal generator to 455Kc. and adjust C10, C11, C12 and C13 for maximum indication on the output meter. Always keep the signal output from the generator just high enough to get an indication, otherwise excessive loading may result. Remove the signal generator leads from the gang.

RF Alignment: Connect a two turn loop across the leads of the signal generator, loosely couple this loop to the wavemagnet. Set the signal generator and the dial pointer of the receiver to 1600 Kc. and adjust C8 to resonance. Set the signal generator and dial pointer to 1400 and adjust C7 (detector) and C3 (RF) to resonance. These trimmers are on the side of gang condenser. Check operation and re-install set in cabinet. Tune in a weak station near 1400 Kc. or use background noise and readjust C3 through the hole in the side of the cabinet for maximum sensitivity.

ALIGNMENT PROCEDURE

Operation	Connect Osc. To	Dummy Antenna	Input Signal Frequency	Band	Set Dial To	Trimmers	Purpose
1	Converter Grid	.1 MFD	455KC	BC	600KC	C-10-11-12 13	IF alignment
2	Two turns loosely coupled to Wave Magnet		1600KC	BC	1600KC	C8	Set oscillator to scale
3	Two turns loosely coupled to Wave Magnet		1400KC	BC	1400KC	C7	Align Det.
4	Two turns loosely coupled to Wave Magnet		1400KC	BC	1400KC	C3	Align Wave magnet