



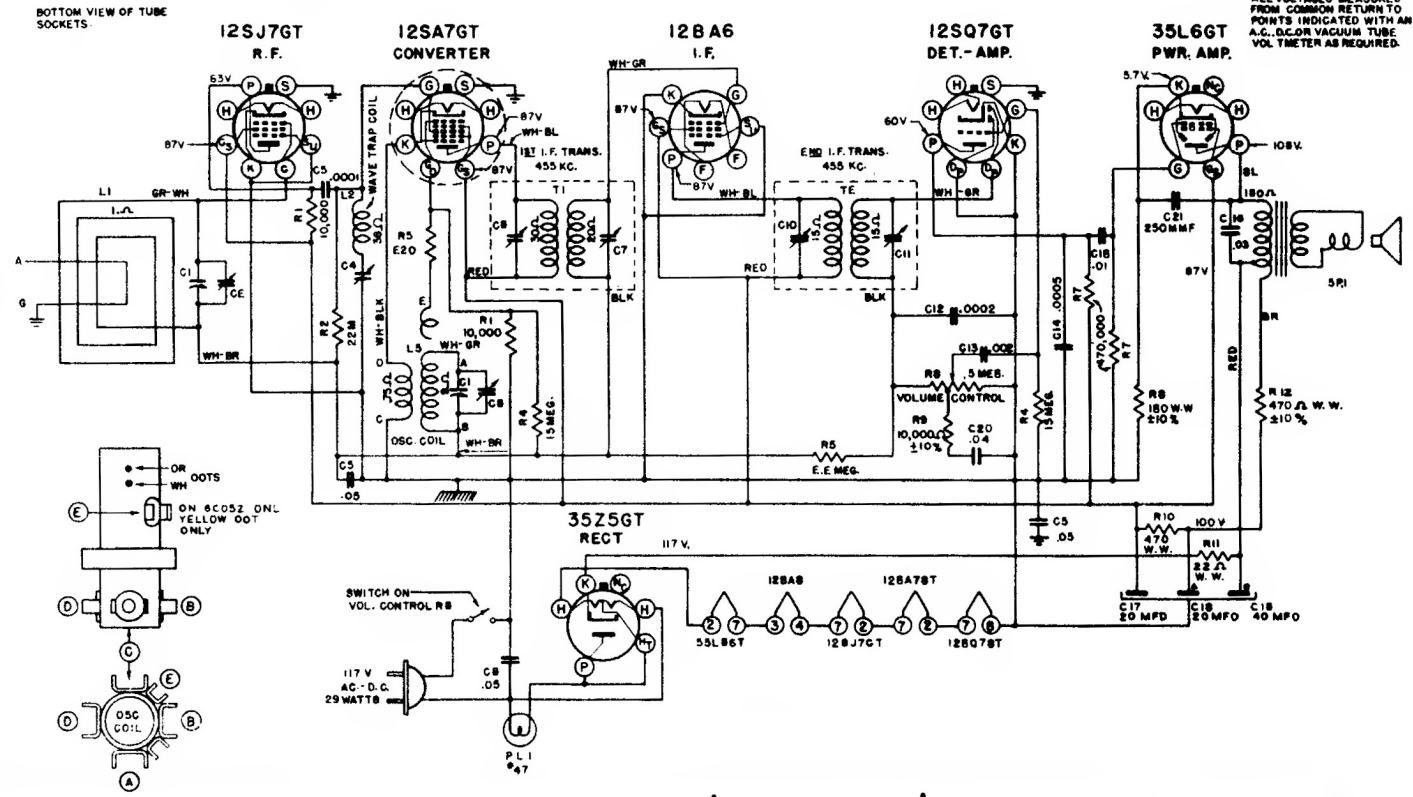
MODELS 6D015-6D030 CHASSIS No. 6C05



DIAG NO	PART NO	DESCRIPTION OF PARTS
C1	22-141B	P-GANG, VAR-SEE NOTE
C2	ON C1	BROADCAST ANT. TRIMMER
C3	22-182	0001 MFD. 600V.
C4	22-105	WAVE TRAP TRIMMER
C5	22-629	.05 MFD. 200V.
C6	ON T1	1ST I.F. TRANS. PRI. TRIMMER
C7	ON T1	1ST I.F. " SEC. "
C8	ON C1	BROADCAST OSC. "
C8	EE-107	.05 MFD. 200V.
C10	ON T2	2ND I.F. TRANS. PRI. TRIMMER
C11	ON T2	2ND I.F. " SEC. "
G12	22-953	.0002 MFD. 600V.
G13	22-492	.002 MFD. 600V.
G14	22-854	.0005 MFD. 600V.
G15	22-196	.01 MFD. 600V.
G16	22-104B	.05 MFD. 400V.
G17		20 MFD ELECTRO. 50 V.
G18	22-151B	20 MFD. 150 V.
G18		40 MFD. 150 V.
C20	22-1202	04 MFD. 200 V.
R12	43-1222	470 OHM WIRE WOUND 1 W.
R1	63-589	10M OHM 1/4 W.
R2	63-591	22M OHM 1/4 W.
R3	63-579	220 OHM 1/4 W.
R4	63-97B	15 MEG OHM 1/4 W.
R5	63-600	2.2 MEG OHM 1/4 W.
R6	63-1337	5 MEG VOLUME CONTROL
R7	63-397	470M OHM 1/4 W.
R8	63-686	150 OHM WIRE WOUND 1/2 W.
R8	63-641	10 M OHM 1/4 W.
R10	63-1443	470 OHM WIRE WOUND 1 W.
R11	63-1450	22 OHM " " 1 W.
L1	S 110 B9	WAVE MAGNET ASSEMBLY
L2	S 8526	WAVE TRAP COIL "
L3	S 1135	OSC. COIL "
T1	95-928	1ST I.F. TRANSFORMER
T2	95-930	2ND I.F. " "
PL1	100-67	PILOT LIGHT 6.3V. 15A
SP1	49-547	4" P.M. SPEAKER
W	28-348	DIAL SCALE
G21	22-182	250 MMF.

NOTE - ON 6C05Z ALL PARTS WITH # CHANGE TO THE FOLLOWING

C1 22-1521 2 GANG VARIABLE
L1 S-1248B WAVE MAGNET ASSY
L3 S-12491 OSC. COIL
W 28-385 DIAL SCALE



ALL RESISTORS ±20% TOLERANCE UNLESS OTHERWISE SPECIFIED.

↑ DENOTES COMMON RETURN (B-1)
↓ DENOTES CHASSIS

I.F. FREQUENCY 455 K.C.
TUNING RANGE 535-1620 K.C.

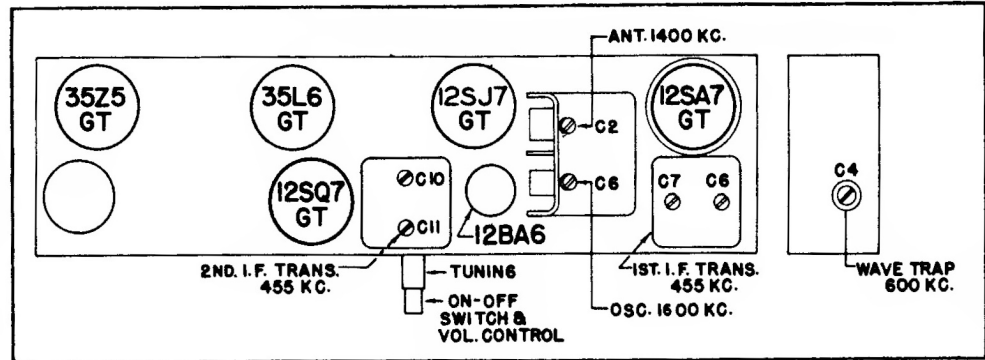
MODELS 6D015-6D030
CHASSIS No. 6C05

Zenith Radio Corp.

The filter circuits of chassis 6C05 incorporate new features that should be well understood by the service man. An examination of the schematic drawing will show the output transformer tapped slightly off center. This tap is the B + connection from filter resistor R11 and capacitor C19 off the cathode of the rectifier 35Z5 to the 35L6 plate. The lower connection of the output transformer feeds B + to the rest of the tubes in the receiver. Current flowing through the upper windings of the output transformer to the 35L6 produces a magnetic field which is 180° out of phase with the magnetic field produced by current flowing in the opposite direction through the output transformer to the rest of the receiver, therefore, most of the AC hum is cancelled. Further reduction of hum is accomplished by filtering through resistor R10 and 12 and capacitors C17 and 18.

This development in filtering systems allows a higher effective plate voltage on the 35L6 for increased power output.

NOTE: The output transformer must be replaced with an exact duplicate, Part No. 206-547. Be sure to add the speaker code letter to the transformer part number.



TUBE AND TRIMMER LOCATION

ALIGNMENT PROCEDURE

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