



Zenith Radio Corp.			
	Model: 6D015	Chassis:	Year: Pre 1948
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Beitmans 1946 174			
Beitmans 1946 175			
Riders 15 (XV) ZENITH 15-2			
Riders 15 (XV) ZENITH 15-28			
Riders 15 (XV) ZENITH 15-29			

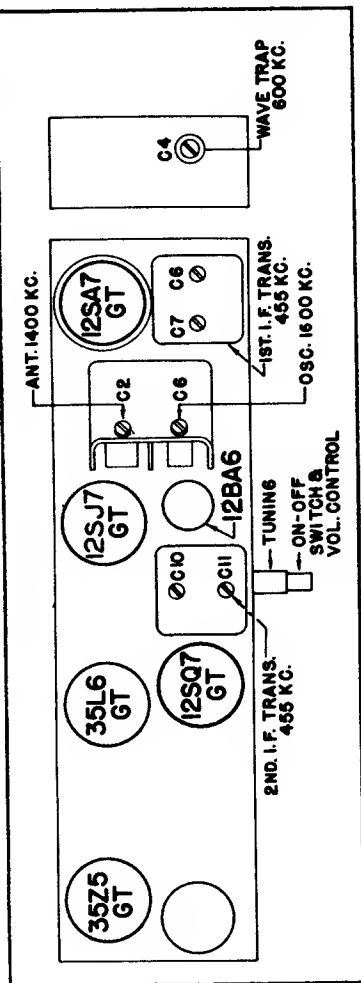
MODELS 6D015-6D030
CHASSIS No. 6C05

Zenith Radio Corp. Continued from page 174.

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

MODELS 4K016, 4K035
MODELS 6D015, 6D030

ZENITH RADIO CORP.

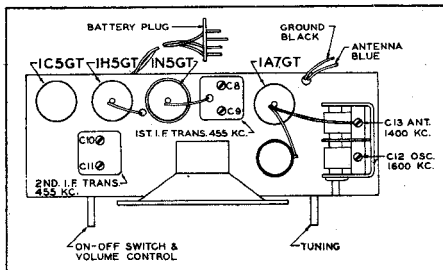
MODELS 4K016-4K035
CHASSIS Nos. 4C52-4C53

TO THE SERVICE MAN:

The alignment of this chassis is conventional.

A 4700 ohm resistor R5 between the low end of the volume control and ground allows some audio output with normal signal input when the volume control is in counter clockwise positions. This is the Guardian Reminder circuit.

If the audio output is objectionably high (with the volume control in counter clockwise position) resistor R5 may be reduced in value to 2500 ohms or removed from the circuit and the low end of the control grounded.



TUBE AND TRIMMER LOCATION

ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIG. FREQUENCY	SET DIAL AT	TRIMMERS	PURPOSE
1	Converter Grid	.5 Mfd.	455 Kc	600 Kc.	C-8, C-9, C-10, C-11	Align I. F.
2	Antenna and Ground	200 mmfd.	1600 Kc.	1600 Kc.	C-12	Set Oscillator to Dial Scale.
3	Antenna and Ground	200 mmfd.	1400 Kc.	1400 Kc.	C-13	Align antenna stage.

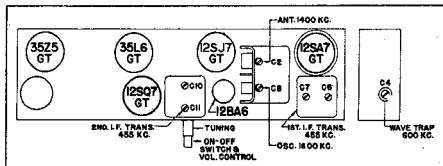
MODELS 6D015-6D030
CHASSIS No. 6C05

TO THE SERVICE MAN:

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.

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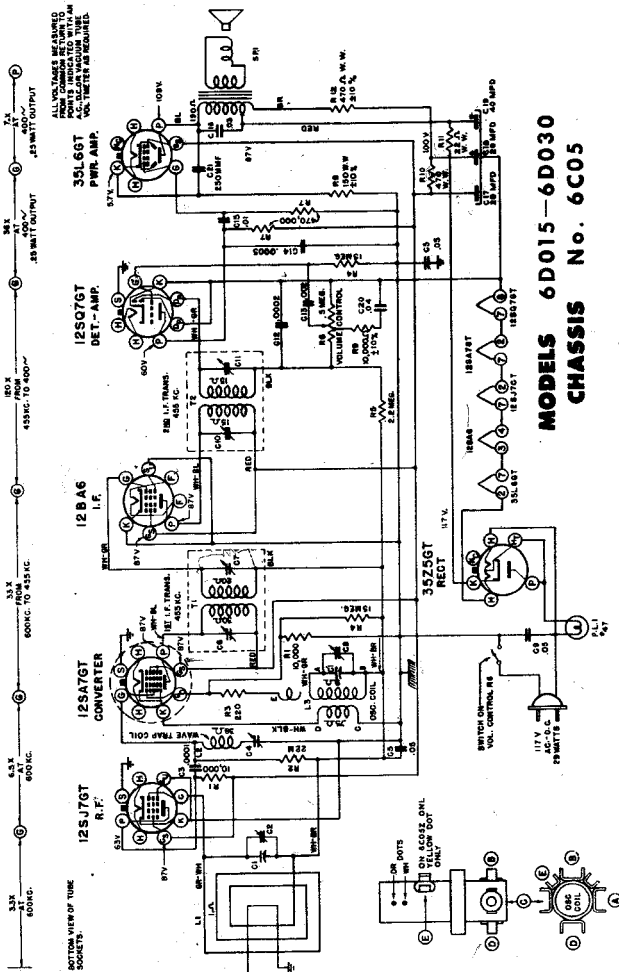


TUBE AND TRIMMER LOCATION

ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY 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.
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MODELS 6D015-6D030
CHASSIS No. 6C05



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

SYNOPSIS CHAIRS

ALWAYS COMMON RETURN

ALL RESISTERS $\pm 20\%$ TOLERANCE UNLESS OTHERWISE SPECIFIED.

DISTORTION AND POOR SENSITIVITY: Distortion and poor sensitivity caused by a short between turns on the wavemagnet.
Poor sensitivity and set fails to operate on low-frequency end of dial--replace oscillator coil.

UNCONTROLLED OSCILLATION: A 470,000 ohm resistor soldered across the secondary of the first i-f transformer will correct this condition.

[illegible]

NOTE: ON 8052 ALL PARTS
WITH A CHANGE TO THE
FOLLOWING

C1	22-15212	CANG VARIABLE
L1	5-12486	WAVE MAGNET ASSEMBLY
L3	3-12491	OSC. COIL
	28-145	DIAL SCALE

