

MODELS 5A318, 5A325
Chassis 5532A
Voltage, Tuner Data
Socket

ZENITH RADIO CORP.

MODEL 5S313B
Chassis 5535BT
Socket, Voltage

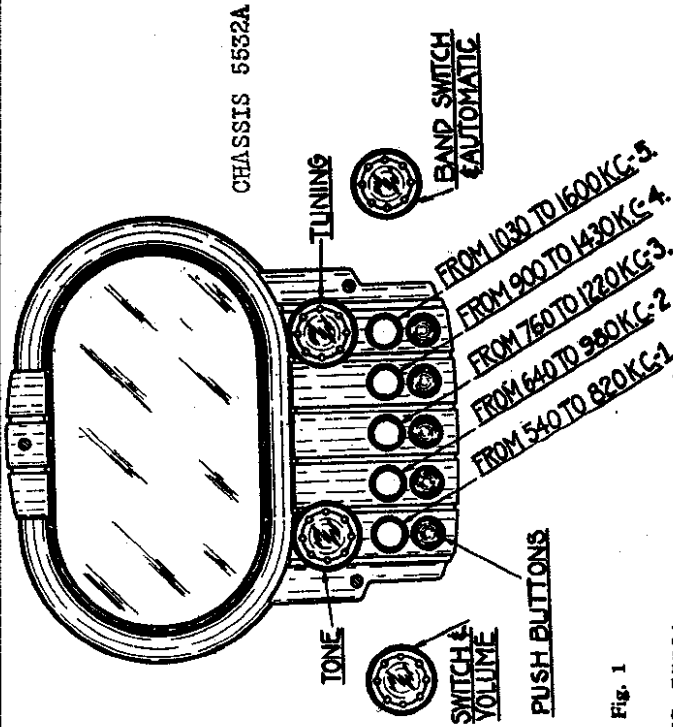


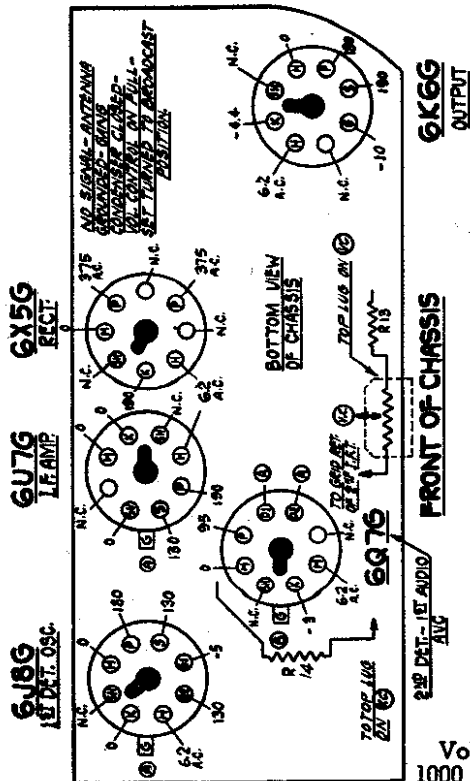
Fig. 1

CHASSIS 5532A AUTOMATIC

To set the buttons for automatic operation proceed as follows:

1. Select a station in the tuning range of the No. 1 button.
2. Place the band switch on BROADCAST and tune this station manually in the conventional manner.
3. Set the band switch to the AUTOMATIC position and press No. 1 button.
4. Remove the cap above the button by inserting a pin or your finger nail under the edge and pulling out.
5. Turn the exposed screw in either direction until the previously selected station is heard. (Recheck by switching back to BROADCAST.) Adjust the screw very carefully for best tone, greatest freedom from noise, and maximum volume.
6. Replace cap and cut the call letters of the station from the call sheet furnished with the receiver. Wet the rear surface of the tab, and place it in the space provided on the cap.
7. Follow the above operations in setting the remaining four buttons.
8. The call letter sheets should be preserved for use in the event it is desired to change any of the buttons to some other station.

CHASSIS 5535BT SOCKET VOLTAGES



(A) Bias for 6J8G—6U7G and diodes of 6Q7 measured across resistor R14.

(B) Bias for triode section of 6Q7G and 6K6G measured across R13 and R14.

AVC. DET. AMP. 6Q7G
I.F. 6U7G
POWER AMP. 6K6G

Voltages measured with a 1000 ohm per volt meter from chassis to socket contacts. Antenna disconnected — volume control on full.

Line voltage 115 v.

LEGEND: N.C.—No Connections; S.H.—Shield; H.—Heater; P.—Plate; S.—Screen; S.U.—Suppressor Grid; G.—Grid; D.I. Diode; K.—Cathode.

REC. 6X5G

Fig. 3

CHASSIS 5532A

FRONT OF CHASSIS

BOTTOM VIEW OF CHASSIS

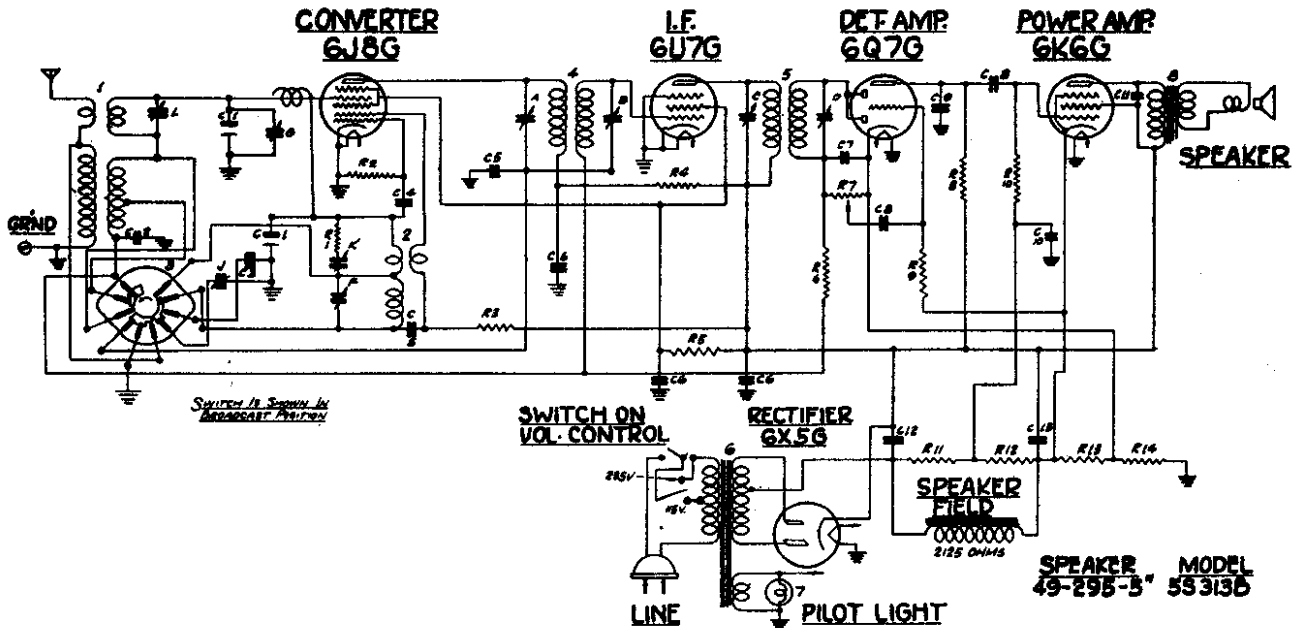
CONV. 6J8G

All Voltage is taken with a 1000 ohm per volt meter from point indicated to ground. Line Volts 115 A.C. Vol. at minimum, no ant. Band sw on manual Broadcast position. NOTE "A" Grid Bias for 6U7G and 6V8G is—2 V. measured at "K" of 6Q7G.

MODEL 55313B
Chassis 5535BT
Schematic

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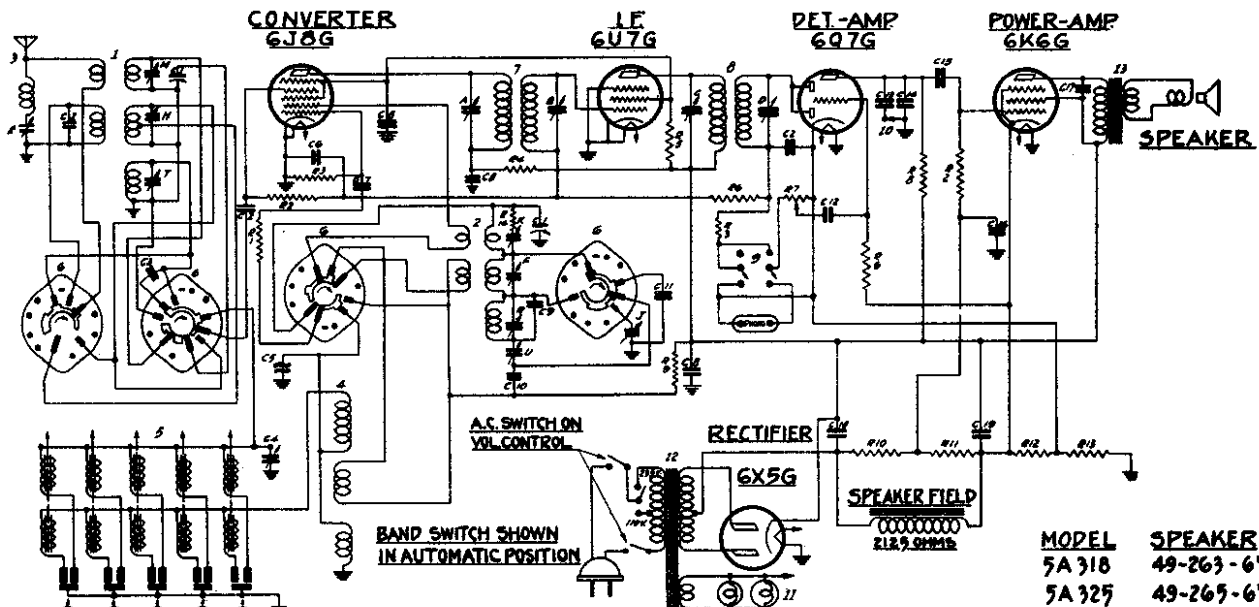


DISC. NO.	PART NO.	DESCRIPTION	DISC. NO.	PART NO.	DESCRIPTION	DISC. NO.	PART NO.	DESCRIPTION	
C-1	22-832	170 OHMS WIRE	R-3	63-287	47M OHMS	1/4W	8	92-82	BAND SWITCH
C-2	22-818	50MFD	R-4	63-214	15M OHMS	1/4W	4	92-83	1ST I.F. TRANSFORMER
C-3	22-588	FIXED PADDER COND.	R-5	63-205	1000 OHMS	1/4W	6	92-86	2ND I.F. TRANSFORMER
C-4	22-589	50MFD	R-6	63-208	15M OHMS	1/4W	5	92-87	POWER TRANSFORMER
C-5	22-588	50MFD	R-7	63-200	2.2 MEGOHMS	1/4W	7	92-86	PILOT LIGHT 25A-25V
C-6	22-819	25MFD	R-8	63-1027	VOLUME CONTROL	1/4W	8	92-87	SPEAKER TRANS.
C-7	22-588	50MFD	R-9	63-206	220M OHMS	1/4W	9		
C-8	22-811	50MFD	R-10	63-271	1 MEGOHM	1/4W	10		
C-9	22-147	50MFD	R-11	63-277	470M OHMS	1/4W	11		
C-10	22-884	50MFD	R-12	63-288	300M OHMS	1/4W	12		
C-11	22-812	50MFD	R-13	63-280	100M OHMS	1/4W	13		
C-12	22-778	50MFD ELECTROLYTIC	R-14	63-563	80 OHMS WIREWOUND	1/4W	14		
C-13	22-778	50MFD ELECTROLYTIC	R-15	63-686	50 OHMS WIREWOUND	1/4W	15		
R-1	63-688	82 OHMS	1	3-4874	ANTENNA COIL ASSY		K	22-963	DIFFERENTIAL PADDER
			2	3-4875	OSCILLATOR COIL ASSY		L	22-788	SHORT WAVE OSC. (SEE NOTE)
									SHORT WAVE DETECTOR

NOTE: TRIMMERS P L K MOUNTED ON BAKELITE STRIP #22-754

I.F. FREQUENCY 455 KC.
5 TUBE SUPERHETERODYNE
CHASSIS NO 5535 BT
ZENITH RADIO CORPORATION
CHICAGO, ILL.

Total power consumption 45 watts.
Power output 3.5 watts.



DISC. NO.	PART NO.	DESCRIPTION	DISC. NO.	PART NO.	DESCRIPTION	DISC. NO.	PART NO.	DESCRIPTION	
C-1	22-721	170 OHMS ADJUSTABLE	R-1	63-223	82 OHMS	1/4W	1	22-74	CONVERTING COIL
C-2	22-182	50MFD	R-2	63-224	100 OHMS	1/4W	2	22-75	ANTENNA TUNING UNIT ASSEMBLY
C-3	22-819	25MFD	R-3	63-225	67 OHMS	1/4W	3	22-76	BAND SELECTOR SWITCH
C-4	22-819	25MFD	R-4	63-226	100 OHMS	1/4W	4	22-77	1ST I.F. TRANSFORMER
C-5	22-761	CONVERTING COND.	R-5	63-227	100 OHMS	1/4W	5	22-78	2ND I.F. TRANSFORMER
C-6	22-812	50MFD	R-6	63-228	100 OHMS	1/4W	6	22-79	TUNING SWITCH
C-7	22-127	50MFD	R-7	63-229	20 OHMS	1/4W	7	22-80	TONE CONTROL BATTERY
C-8	22-171	50MFD	R-8	63-271	1 MEGOHM	1/4W	8	22-81	PILOT LIGHT 25A-25V
C-9	22-782	50MFD	R-9	63-272	100 OHMS	1/4W	9	22-82	POWER TRANSFORMER
C-10	22-358	50MFD	R-10	63-273	200 OHMS	1/4W	10	22-83	SPEAKER TRANSFORMER
C-11	22-588	50MFD	R-11	63-274	15 OHMS	1/4W	11		
C-12	22-190	50MFD	R-12	63-275	300 OHMS	1/4W	12		
C-13	22-448	50MFD	R-13	63-276	100 OHMS	1/4W	13		
C-14	22-147	50MFD	R-14	63-277	80 OHMS WIREWOUND	1/4W	14		
C-15	22-819	25MFD	R-15	63-278	100 OHMS WIREWOUND	1/4W	15		
C-16	22-190	50MFD	R-16	63-279	50 OHMS WIREWOUND	1/4W	16		
C-17	22-792	50MFD	R-17	63-280	50 OHMS WIREWOUND	1/4W	17		
C-18	22-778	50MFD ELECTROLYTIC	R-18	63-281	50 OHMS WIREWOUND	1/4W	18		
C-19	22-778	50MFD ELECTROLYTIC	R-19	63-282	50 OHMS WIREWOUND	1/4W	19		

Total power consumption 45 watts.

Power output 3.0 watts.

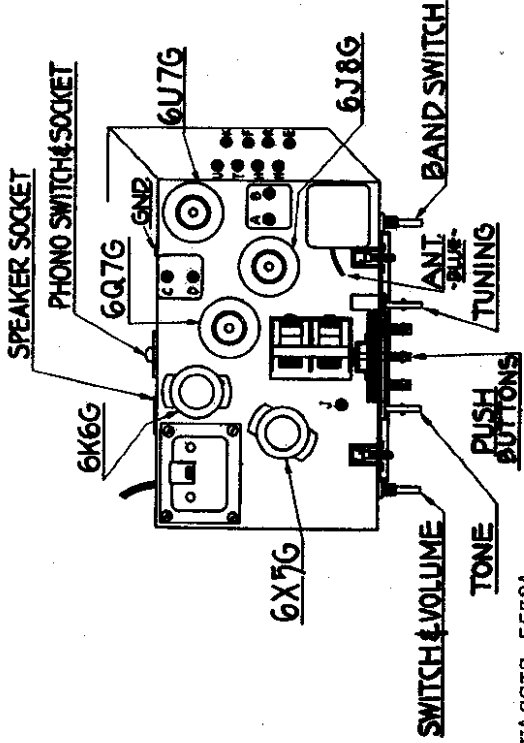
I.F. FREQUENCY 455 KC.
5 TUBE SUPERHETERODYNE
CHASSIS NO 5532-A
ZENITH RADIO CORPORATION
CHICAGO, ILLINOIS

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 Chassis 5532A
 MODEL 5S313B
 Chassis 5535BT
 Alignment, Socket
 Trimmers

ZENITH RADIO CORP.

UNDER NO CIRCUMSTANCES SHOULD THIS RECEIVER BE CONNECTED TO DIRECT CURRENT (D. C.).

Chassis 5532A only is designed to operate on 25 to 100 cycle alternating current (A.C.) and may be adjusted for use on either 110 or 235 Volt power lines by means of the switch on top of the power transformer. The proper position of the switch for either voltage is marked on the transformer case.



CHASSIS 5532A

ALIGNMENT PROCEDURE

Operation	Connect Test Oscillator to—	Dummy Antenna	Set Test Osc. to— (Meters)	Wave Band	Set Dial to— (Meters)	Adjust Trimmers	Purpose
1	1st Det. Grid	1/2 Mfd.	660	Med.	500	ABCD	I. F. Alignment
2	Rec. Ant. Lead	200 Mmfd.	660	Med.	500	E	See Note
3	Rec. Ant. Lead	200 Mmfd.	200	Med.	200	F	Set Osc. to Scale
4	Rec. Ant. Lead	200 Mmfd.	200	Med.	200	H	Align. of Antenna
5	Rec. Ant. Lead	200 Mmfd.	500	Med.	500	J	Rock gang & adj. for max. output
6	Rec. Ant. Lead	200 Mmfd.		Med.		FH	Repeat 3 & 4
7	Rec. Ant. Lead	200 Mmfd.	800	Long	800	R	Set Osc. to Scale
8	Rec. Ant. Lead	200 Mmfd.	800	Long	800	T	Align. of Antenna
9	Rec. Ant. Lead	200 Mmfd.	1900	Long	1900	U	Rock gang & adj. for max. output
10	Rec. Ant. Lead	200 Mmfd.		Long		RT	Repeat 7 & 8
11	Rec. Ant. Lead	400 Ohms	17	Short	17	K	Set Osc. to Scale
12	Rec. Ant. Lead	400 Ohms	17	Short	17	M	Align. of Antenna

NOTE: If receiver is used in location subject to code interference adjust wave trap (E) for minimum interference with antenna, connected and receiver operating in Medium Wave position.

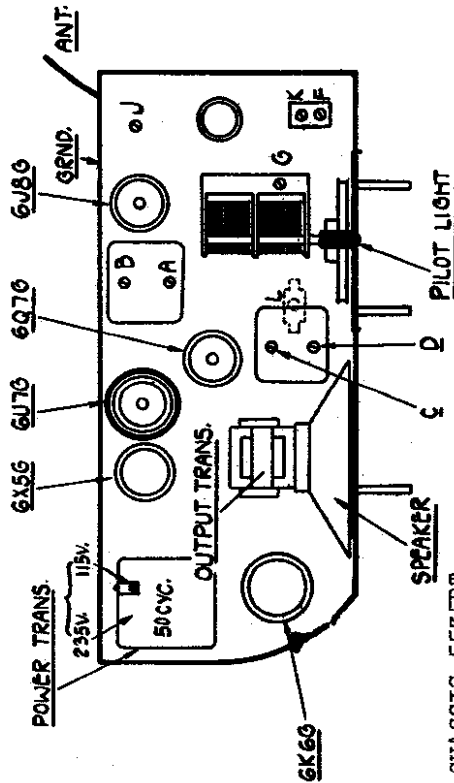
5 Tube A.C. receiver—Chassis No. 5535BT

GENERAL

This receiver is a modern five tube superheterodyne with a dual tuning range covering frequencies between 18.2 to 5.4 megacycles and 540 to 1750 kilocycles. The tuning is explained under "Operation."

UNDER NO CIRCUMSTANCES SHOULD THIS RECEIVER BE CONNECTED TO DIRECT CURRENT (D. C.).

This receiver is designed to operate on 50 to 100 cycle alternating current (A.C.) and may be adjusted for use on either 110 or 235 Volt power lines by means of the switch on top of the power transformer. The proper position of the switch for either voltage is marked on the transformer case.



CHASSIS 5535BT

ALIGNMENT PROCEDURE

Operation	Connect Test Oscillator to	Dummy Antenna	Set Test Osc. to	Band	Set Dial At	Adjust Trimmers	Purpose
1	1st Det. Grid	1/2 Mfd.	455	Br dc'1	600	ABCD	I. F. Alignment
2	Rec. Ant. Lead	200 Mmfd.	1500	Br dc'1	1500	F	Set Osc. to Scale
3	Rec. Ant. Lead	200 Mmfd.	1500	Br dc'1	1500	G	Align. of Ant.
4	Rec. Ant. Lead	200 Mmfd.	600	Br dc'1	600	J	Rock gang & adj. for max. output
5	Rec. Ant. Lead	200 Mmfd.	1500	Br dc'1	1500	F & G	Repeat 2 & 3
6	Rec. Ant. Lead	400 ohms	18000	S. W.	18000	K	Set Osc. to Scale
7	Rec. Ant. Lead	400 ohms	18000	S. W.	18000	L	Rock gang & adj. for max. output