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

ZENITH RADIO CORP.

MODEL 5S313B
Chassis 5535BT
Socket, Voltage

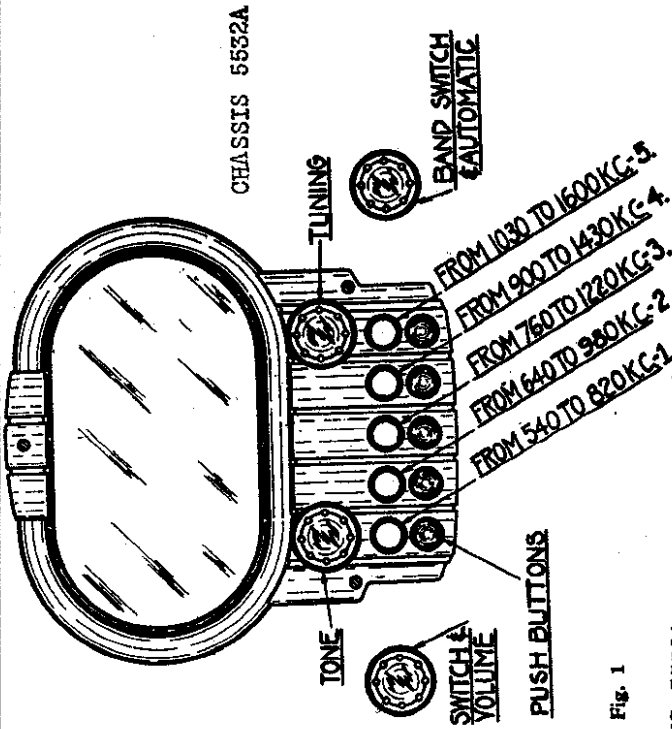
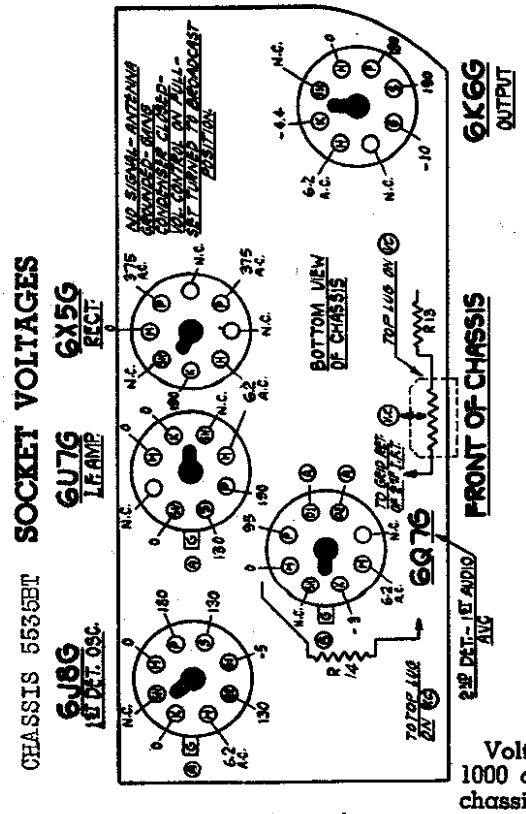


Fig. 1

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.



(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.

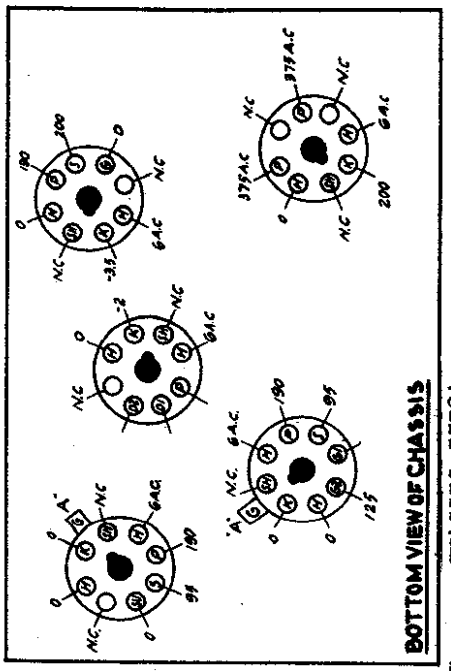


Fig. 3 CHASSIS 5532A FRONT OF CHASSIS

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

Line voltage 115 v.

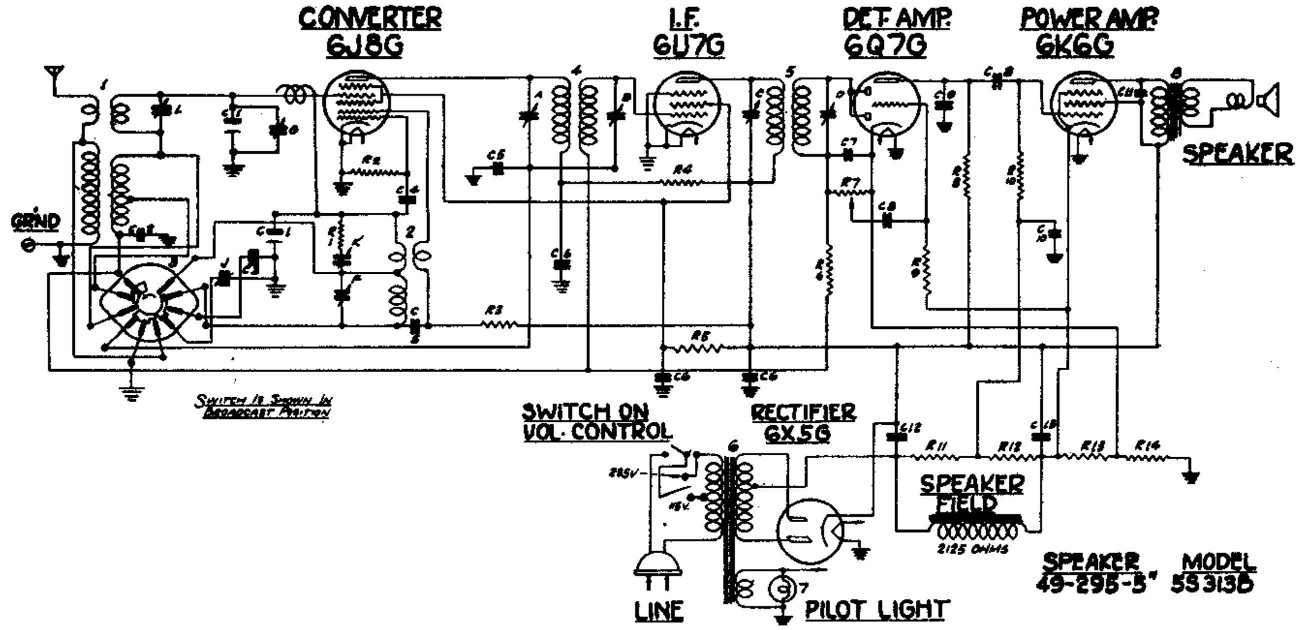
All Voltage is taken with a 1000 ohm per volt meter from point indicated to ground. Line Volts 115 A.C. Vol. at minimum, no ant. Band sw on manual Broadcast position. NOTE "A" Grid Bias for 6U7G and 6V8G is—2 V. measured at "K" of 6Q7G.

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.*

MODEL 5S313B
Chassis 5535BT
Schematic

ZENITH RADIO CORP.

MODELS 5A318, 5A325
Chassis 5532A
Schematic



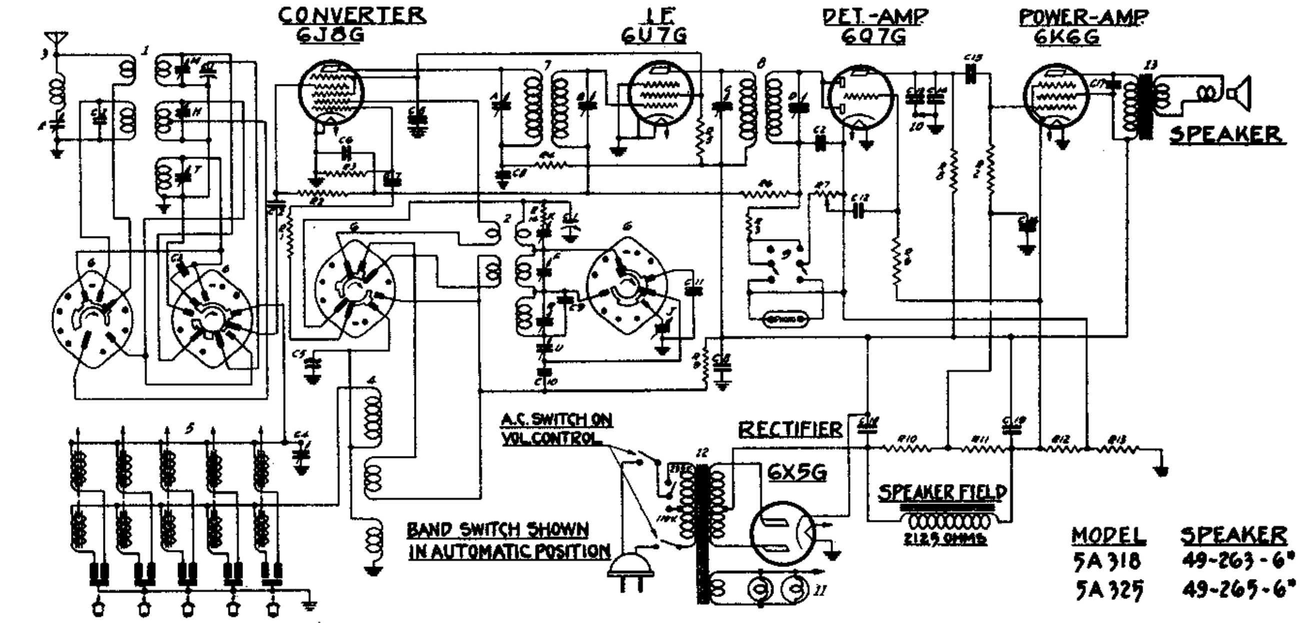
DIAG. NO.	PART NO.	DESCRIPTION		DIAG. NO.	PART NO.	DESCRIPTION		DIAG. NO.	PART NO.	DESCRIPTION
C-1	22-832	TWO GANG VAR		R-2	63-593	47M OHMS	1/4W	3	85-182	BAND SWITCH
C-2	22-818	.05 MFD	400V	R-3	63-1014	15M OHMS	2W	4	95-595	1ST I.F. TRANSFORMER
C-3	22-568	FIXED PADDER COND.		R-4	63-605	1000 OHMS	1/2W	5	95-596	2ND I.F. TRANSFORMER
C-4	22-289	60 MMFD	600V	R-5	63-208	12M OHMS	1W	6	95-570	POWER TRANSFOR 60CYC. 115-125V
C-5	22-358	.002 MFD	600V	R-6	63-600	2.2 MEGOHMS	1/4W	7	100-36	PILOT LIGHT .25A-6.3V
C-6	22-819	.05 MFD	400V	R-7	63-1027	VOLUME CONTROL		8		SPEAKER TRANS
C-7	22-162	.0001 MFD	600V	R-8	63-290	220M OHMS	1/4W			
C-8	22-811	.01 MFD	600V	R-9	63-271	1 MEGOHM	1/4W	A		1ST I.F. TRANS PRI
C-9	22-147	.0005 MFD	600V	R-10	63-597	470M OHMS	1/4W	B		1ST I.F. TRANS SEC
C-10	22-824	.5 MFD	200V	R-11	63-658	390M OHMS	1/4W	C		2ND I.F. TRANS PRI
C-11	22-813	.01 MFD	400V	R-12	63-260	100M OHMS	1/4W	D		2ND I.F. TRANS SEC
C-12	22-775	8MFD ELECTROLYTIC	450V	R-13	63-563	80 OHMS WIREWOUND	1/4W	F		BROADCAST OSC (SEE NOTE)
C-13	22-776	8MFD ELECTROLYTIC	350V	R-14	63-686	150 OHMS WIRE WOUND	1/2W	G		ANTENNA BROAD (ON GANG)
								J	22-463	BROADCAST PADDER
				1	S-6874	ANTENNA COIL ASSM.		K		SHORT WAVE OSC (SEE NOTE)
R-1	63-625	82 OHMS	1/4W	2	S-6875	OSCILLATOR COIL ASSM		L	22-788	SHORT WAVE DETECTOR

NOTE TRIMMERS F & 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.



MODEL 5A318 — SPEAKER 49-263-6"
MODEL 5A325 — SPEAKER 49-265-6"

DIAG. NO.	PART NO.	DESCRIPTION		DIAG. NO.	PART NO.	DESCRIPTION		DIAG. NO.	PART NO.	DESCRIPTION	DIAG. NO.	DESCRIPTION
C-1	22-789	TWO GANG ADJUSTABLE						4	20-196	COMPENSATING COIL	K	SHORT WAVE OSC. - SEE NOTE
C-2	22-162	.0001 MFD	600V					5	S-6174	AUTOMATIC TUNING UNIT ASSEM.	M	SHORT WAVE ANT. - SEE NOTE
C-3	22-269	50 MMFD	600V	R-1	63-625	82 OHM	1/4W	6	85-172	BAND SELECTOR SWITCH	P	LONG WAVE OSC - SEE NOTE
C-4	22-519	TRIMMER CONDENSER		R-2	63-597	470 M OHM	1/4W	7	95-573	1ST I F TRANS	T	LONG WAVE ANT. - SEE NOTE
C-5	22-761	COMPENSATING COND.		R-3	63-593	47 M OHM	1/4W	8	95-574	2ND I F TRANS	U	LONG WAVE PADDER - SEE NOTE
C-6	22-212	09 MFD	400V	R-4	63-583	1000 OHM	1/2W	9	85-171	PHONO SWITCH		
C-7	22-127	25 MMFD	600V	R-5	63-970	22 M OHM	1W	10	85-165	TONE CONTROL SWITCH		
C-8	22-171	05 MFD	600V	R-6	63-271	1 MEGOHM	1/4W	11	100-36	PILOT LIGHT 6.3V-.25A		
C-9	22-782	60 MMFD CERAMIC		R-7	63-998	220 M OHM VOL CONTROL		12	95-523	POWER TRANSFORMER		
C-10	22-390	.002 MFD	600V	R-8	63-290	220 M OHM	1/4W	13		SPEAKER TRANSFORMER		
C-11	22-503	FIXED PADDER COND.		R-9	63-151	15 M OHM	1W					
C-12	22-190	01 MFD	600V	R-10	63-658	390 M OHM	1/4W					
C-13	22-448	004 MFD	600V	R-11	63-260	100 M OHM	1/4W	A		1ST I F TRANS PRI		
C-14	22-147	0005 MFD	600V	R-12	63-563	80 OHM WIREWOUND	1/4W	B		1ST SEC		
C-15	22-433	02 MFD	400V	R-13	63-686	150 OHM WIREWOUND	1/2W	C		2ND PRI		
C-16	22-190	1 MFD	200V	R-14	63-621	39 OHM	1/4W	D		2ND SEC		
C-17	22-790	004 MFD	1000V	1	S-6711	ANT COIL ASSEMBLY		E		WAVE TRAP SEE NOTE		
C-18	22-775	8 MFD ELECTROLYTIC	450V	1	S-6770	ANT COIL & FIELD ASSEM.		F		BROADCAST OSC. - SEE NOTE		
C-19	22-776	8 MFD "	350V	2	S-6617	OSC COIL ASSEMBLY		H		ANT. BROADCAST - SEE NOTE		
				3	20-195	WAVE TRAP COIL		J	22-518	BROADCAST PADDER - SEE NOTE		

NOTE - TRIMMERS "M-N-T & U" ARE MOUNTED ON BAKELITE STRIP #22-785 -

TRIMMERS "E-K-F & R" ARE MOUNTED ON BAKELITE STRIP #22-784 -

Total power consumption 45 watts.

Power output 3.0 watts.

I.F. FREQUENCY 455 K.C.
5 TUBE SUPERHETERODYNE
CHASSIS No 5532-A-
ZENITH RADIO CORPORATION
CHICAGO ILLINOIS

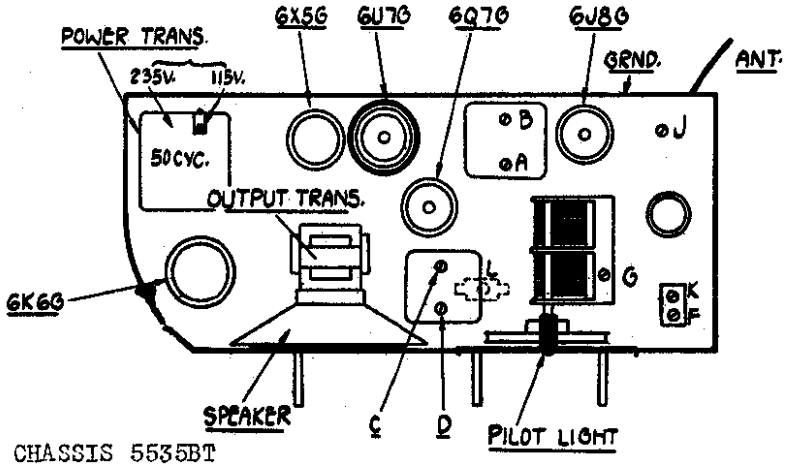
5 Tube A.C. receiver—Chassis No. 5535BT

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.



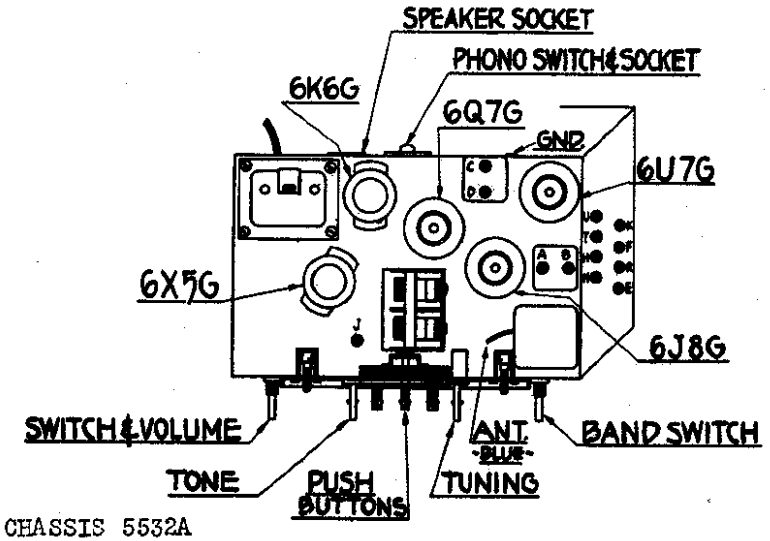
CHASSIS 5535BT

ALIGNMENT PROCEDURE

Operation	Connect Test Oscillator to	Dummy Antenna	Set Test Osc. to	Band	Set Dial At	Adjust Trimmers	Purpose
1	1st Det. Grid	½ Mfd.	455	Br'dc't	600	ABCD	I. F. Alignment
2	Rec. Ant. Lead	200 Mmfd.	1500	Br'dc't	1500	F	Set Osc. to Scale
3	Rec. Ant. Lead	200 Mmfd.	1500	Br'dc't	1500	G	Al'gment of Ant.
4	Rec. Ant. Lead	200 Mmfd.	600	Br'dc't	600	J	Rock gang & adj. for max. output
5	Rec. Ant. Lead	200 Mmfd.	1500	Br'dc't	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

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	½ 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	Algmt. 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	Algmt. 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	Algmt. 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.