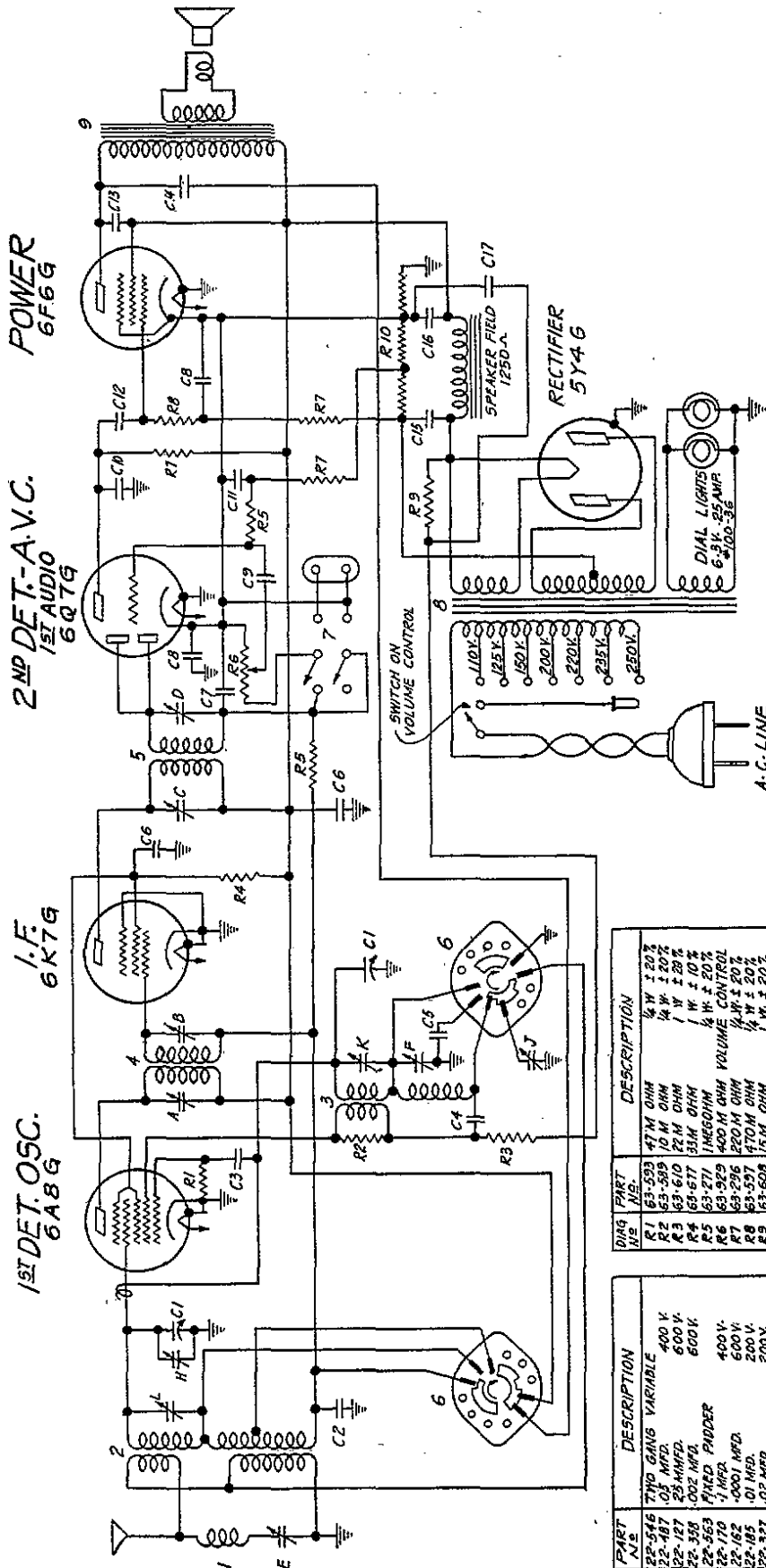


ZENITH RADIO CORP.

MODELS 5S218AT, 5S228AT
5S237AT • Chassis 5521AT
Schematic, Parts



I.F. FREQUENCY 456 K.C.
5 TUBE SUPERHETERODYNE
2 BAND
CHASSIS NO. 5521-AT
ZENITH RADIO CORP.
CHICAGO, ILLINOIS

MODEL	SPEAKER
5S218AT	49-215 5"
5S228AT	49-215 5"
5S237AT	49-224 6"

DIAG. PART No.	PART No.	DESCRIPTION
R1	63-593	47 M OHM 1/2 W ± 20%
R2	63-599	10 M OHM 1/2 W ± 20%
R3	63-610	31 M OHM 1/2 W ± 20%
R4	63-617	31 M OHM 1/2 W ± 20%
R5	63-271	1 MEG OHM 1/2 W ± 20%
R6	63-929	400 M OHM VOLUME CONTROL
R7	63-296	400 M OHM 1/2 W ± 20%
R8	63-537	470 M OHM 1/2 W ± 20%
R9	63-608	15 M OHM 1/2 W ± 20%
R10	63-806	3 SECTION GANDOHM
1	5-4208	WAVE TRAP COIL MOUNTED ON ANTENNA COIL ASSEMBLY
2	5-5634	ANTENNA COIL & SHIELD ASSEMBLY
3	5-4903	OSCILLATOR COIL ASSEMBLY
4	95-469	1ST I.F. TRANSFORMER
5	95-469	2ND I.F. TRANSFORMER
6	95-106	RAID SELECTOR SWITCH
7	95-139	PHONO SWITCH
8	95-452	POWER TRANS. 25-CYCLE ALL-VOLTAGE TRANSFORMER
9		SPEAKER TRANSFORMER

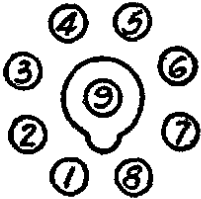
DIAG. PART No.	DESCRIPTION
C1	22-546 TWO GANG VARIABLE 400 K
C2	22-487 .05 MFD. 600 V.
C3	22-127 .25 MFD. 600 V.
C4	22-558 .002 MFD.
C5	22-553 PIPED PADDER
C6	22-170 1/2 MFD. 400V.
C7	22-169 1/2 MFD. 200V.
C8	22-165 .01 MFD. 200V.
C9	22-327 .02 MFD. 200V.
C10	22-147 .0005 MFD. 200V.
C11	22-140 .1 MFD. 200V.
C12	22-435 .02 MFD. 600V.
C13	22-492 .02 MFD. 600V.
C14	22-171 .05 MFD. 600V.
C15	22-686 .5 MFD. ELECT. 475V.
C16	22-634 .15 MFD. ELECT. 450V.
C17	22-634 .4 MFD. ELECT. 450V.
A	VARIABLE TRIMMERS
B	1ST I.F. TRANS. PRIMARY
C	2ND I.F. TRANS. PRIMARY
D	2ND I.F. TRANS. SECONDARY
E	22-570 WAVE TRAP
F	BROADCAST OSCILLATOR (SEE NOTE)
G	ANTENNA BROADCAST PADDER
H	22-919 BROADCAST PADDER
J	SHORT WAVE OSCILLATOR (SEE NOTE)
K	22-305 SHORT WAVE DETECTOR

MODELS 5S218AT, 5S228AT
 5S237AT, Chassis 5521AT
 Socket, Voltage, Trimmers
 Alignment

ZENITH RADIO CORP.
SOCKET VOLTAGES

Tube	Position	1	2	3	4	5	6	7	8	9
6A8	Converter Osc.	0	6.3	244	97	-9	149	0	0	-5
6K7	I. F.	0	6.3	246	97	0	-	0	0	-5
6Q7	2nd Det. AVC 1st Audio	0	0	71	-2.5	-2.5	-	6.3	-2.5	-2.5
6F6	Power	0	0	231	246	-3.5	-	6.3	-2.5	-
5Y4	Rect.	0	-	AC	-	AC	-	316	316	-

All voltages measured from point indicated to ground using a 1000 Ohm per Volt meter, antenna and ground disconnected. Line voltage 117V. Consumption 65W. Power Output 4.5W.



**BOTTOM VIEW
 OF SOCKET**

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.	456	Br'dc't	600	ABCD	I. F. Alignment
2	Rec. Ant. Lead	200 Mmfd.	456	"	600	E	See Note
3	" " "	200 Mmfd.	1500	"	1500	F	Set Osc. to Scale
4	" " "	200 Mmfd.	1500	"	1500	G	Al'gment of Ant.
5	" " "	200 Mmfd.	600	"	600	J	Rock gang & adj. for max. output.
6				"		FG	Repeat 3 & 4.
7	Rec. Ant. Lead	400 Ohms	18000	S.W.	18000	K	Set Osc. to Scale
8	" " "	400 Ohms	16500	S.W.	16500	L	Rock gang & adj. for max. output.

NOTE: If receiver is used in a location subject to code interference adjust wave trap (E) for minimum interference with antenna connected and receiver operating in broadcast band.

Chassis No. 5521AT

LOCATION OF TRIMMERS

