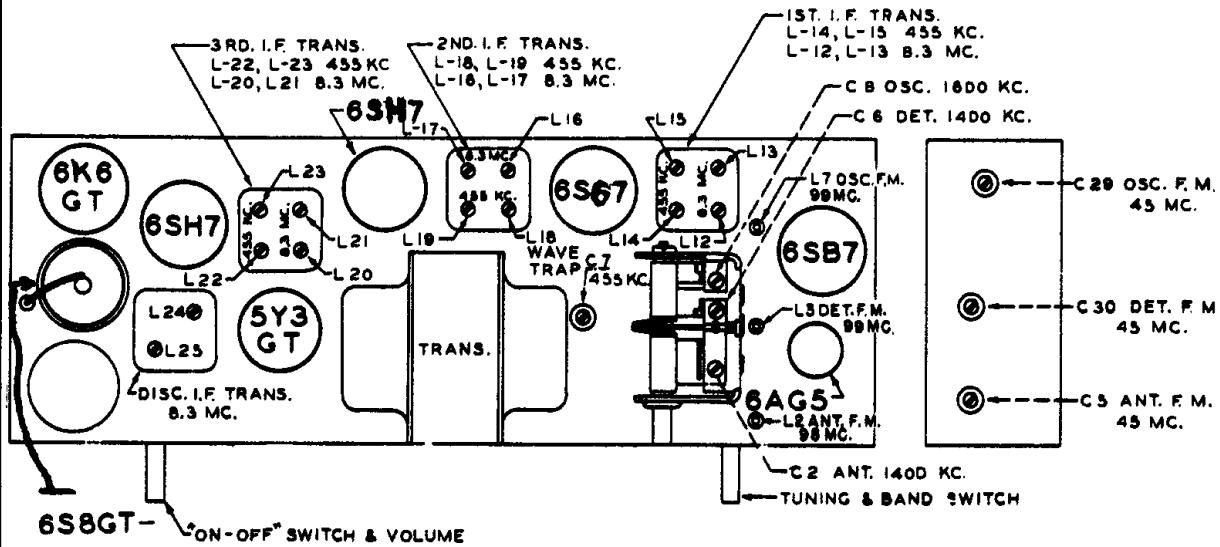
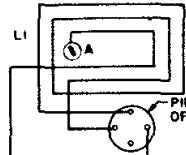


DIAG N ^o	PART N ^o	DESCRIPTION
C1	22-1268	3-GANG VARIABLE
C2	DN-C1	BROADCAST ANT. TRIM.
C3	22-829	.05 MFD. 200 V.
C4	27-87	475 MMFD. MICA DISC.
C5	22-1485	90 MMF TRIMMER
C6	ON C1	BROADCAST DET. TRIM.
C7	ON LS	WAVETRAP TRIMMER
C8	22-1431	.001 MFD. 600 V.
C9	DN C1	BROADCAST OSC. TRIM
C10	22-1367	50MMFD. 500 V.
C11	22-1492	50MMFD. CER.
C12	22-47D	150MMFD. 600 V.
C13	22-830	.02 MFD. 600 V.
C14	22-1138	500 MMF. 600 V.
C15	22-1445	.002 MFD. 600 V.
C16	22-288	.003 MFD. 600 V.
C17	22-827	.1 MFD. 200 V.
C18	22-448	.004 MFD. 600 V.
C19		40 MFD. ELECTRD 25V.
C20	22-1382	40 MFD. " 450 V.
C21		40 MFD. " 450 V.
C22	22-162	100 MMFD. 600 V.
C23	22-1041	.005 MFD. 400 V.
C24	22-182	250 MMFD. 600 V.
C25	22-1491	20 MMFD. CER.
C26	22-1489	100 MMFD. 300 V.
C27	22-1489	10 MMFD. CER.
C28	22-1490	18MMFD. CER.
C29	22-1487	55MMFD TRIMMER
C30	22-1488	70MMFD //
C31	22-1385	.01 MFD. 200 V.
C32	22-1137	150 MMFD. 600 V.
C33	22-196	.01 MFD. 600 V.
C34	22-188	.02 MFD. 400 V.
C35	22-135	.005MFD. 600 V.

Zenith Radio, Chassis 8C20,
Models 8H032, 8H033, 8H050, 8H051, 8H052.



ANT. 1.5 X AT 600KC. 6.5X AT 600KC. 13X FROM 600KC TO 455KC. 4.6X AT 455KC. 8.2X FROM 455KC TO 400 ~ 52X AT 400 ~ I WATT OUTPUT

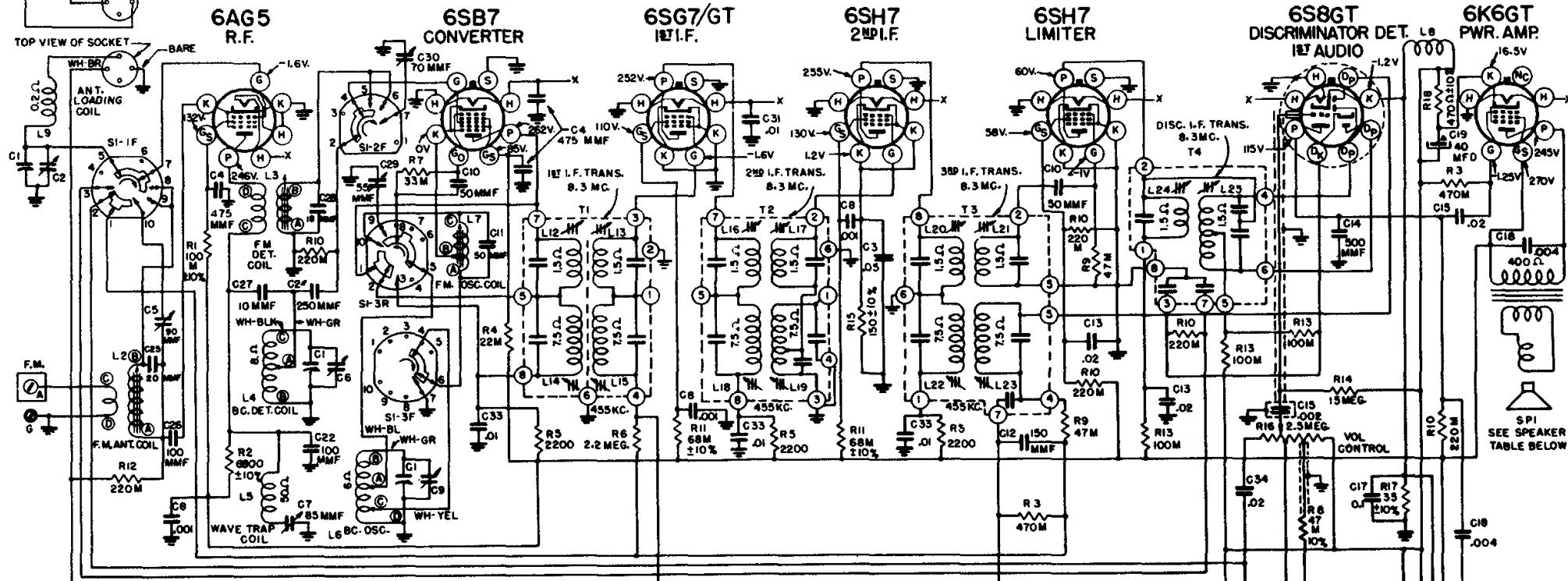


BOTTOM VIEW OF TUBE SOCKETS.

MODELS 8H032 - 8H033 - 8H050 - 8H051 - 8H052

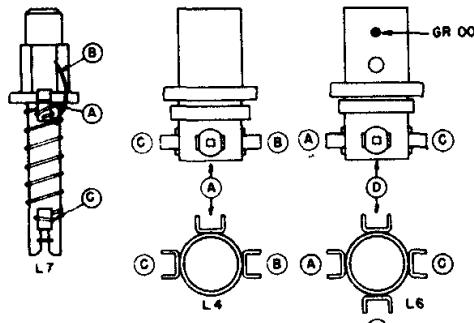
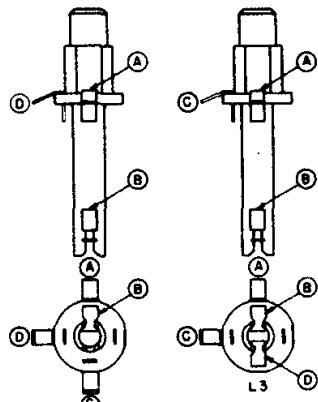
CHASSIS No. 8C20

ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH AN A.C., D.C. OR VACUUM TUBE VOLTMETER.



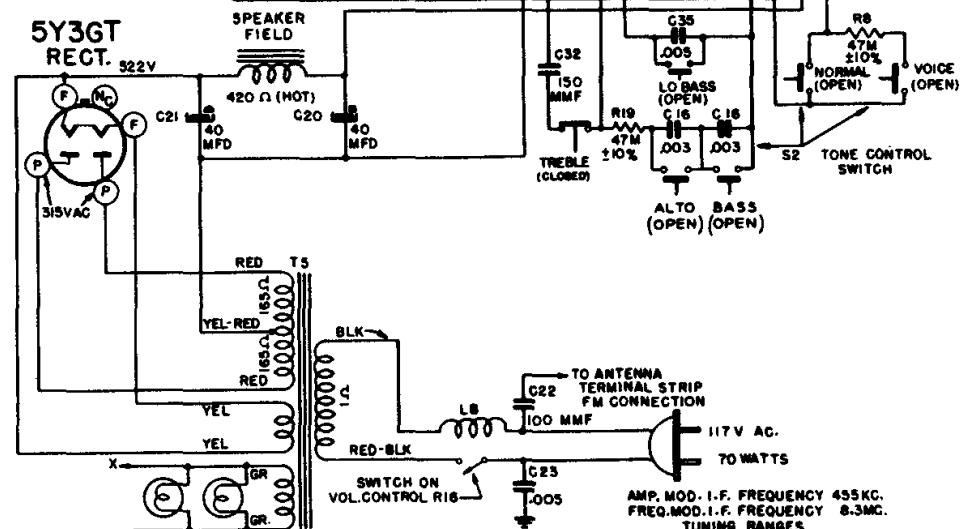
BAND SWITCH SI SHOWN IN ST'D. BROADCAST POSITION

BAND SWITCH POSITIONS
1ST POS. ST'D. BROADCAST
2ND POS. FM 100
3RD POS. FM 45



CHASSIS	MODEL	SPEAKER
8C20	8H032	49-544 9"X9"
8C20	8H050	49-524 8"
8C20	8H050R	49-524 8"
8C20	8H061	49-536 10"

DENOTES CHASSIS
ALL VOLTAGES ARE O.C. UNLESS OTHERWISE SPECIFIED.



ALL RESISTORS ± 20% TOLERANCE
UNLESS OTHERWISE SPECIFIED.

AMP. MOD. I.F. FREQUENCY 455KC.
FREQ. MOD. I.F. FREQUENCY 8.3MC.
TUNING RANGES
540 - 1620 KC. STD. BC.
88 - 108 MC. FM. 100
42 - 48.5 MC. FM. 45

ALIGNMENT PROCEDURE MODELS 8H032-8H033-8H050-8H051-8H052

The signal generator output should be kept just high enough to get an indication on the meter.

- (a) Vacuum Tube Voltmeter pin 5 on discriminator transformer to chassis (half discriminator load.)
- (b) Vacuum Tube Voltmeter pin 7 on discriminator transformer to chassis (full discriminator load.)
- (c) Vacuum Tube Voltmeter 6SH7 limiter grid (pin 4) to chassis.
- (d) 300 ohm $\frac{1}{2}$ watt carbon resistor soldered across the secondary L17 (pin 2 and 3 of 2nd, IF trans.).

CHASSIS No. 8C20

Opera-tion	Connect Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Set Dial To	Adj. Trimmers	Purpose
1	Pin 8 on Converter Tube 6SB7 Socket	.05 Mfd.	455 Kc. Modulated	BC	600 Kc.	L-14,15,18,19 22 and 23	Align I.F. channel for maximum output
2	Pin 1 on R.F. tube 6AG5 socket	.05 Mfd.	455 Kc. Modulated	BC	600 Kc.	C7	Adjust wavetrap for minimum output
3	2 turns loosely cpld. to wavemagnet		1600 Kc. Modulated	BC	1600 Kc.	C9	Set oscillator to dial scale
4	2 turns loosely cpld. to wavemagnet		1400 Kc. Modulated	BC.	1400 Kc.	C2 & C6	Align det. and ant. stages.
5(a)	Pin 4(grid)on 6SH7 limiter socket	.05 Mfd.	8.3 Mc. Unmodulated	FM 45		L24 coil slug Primary discr.	Align primary of discriminator for maximum reading
6(b)	Pin 4(grid)on 6SH7 limiter socket	.05 Mfd.	8.3 Mc. Unmodulated	FM 45		L25 coil slug sec. of disc.	Adjust secondary of discriminator for zero reading
7(c)	Pin 4 (grid) on 6SH7 2nd IF tube socket	.05 Mfd.	8.3 Mc. Unmodulated	FM 45		L20 & L21 Prim.&sec. of 3rd IF trans.	Align 3rd IF transformer for maximum reading
8(c)(d)	Pin 4 (grid) on 6SG7 1st IF tube socket	.05 Mfd.	8.3 Mc. Unmodulated	FM 45		L16 & L17 primary and sec. of 2nd IF transformer	Align 2nd IF transformer for maximum reading
9(c)(d)	Pin 8(grid)on 6SB7 converter tube socket	.05 Mfd.	8.3 Mc. Unmodulated	FM 45		L12 & L13 Primary & Sec. of 1st IF transformer	Align 1st IF transformer for maximum reading
10(c)	Antenna Post (Re- move line ant.)	270 ohms	98 Mc. Unmodulated	FM 100	98 Mc.	L7 Osc. Coil slug	Set oscillator to dial scale
11(c)	Antenna Post (Re- move line ant.)	270 ohms	98 Mc. Unmodulated	FM 100	98 Mc.	L2 & L3 Det. and RF coil slugs	Align det. and ant. stages to maximum reading
12(c)	Antenna Post (Re- move line ant.)	270 ohms	45 Mc. Unmodulated	FM 45	45 Mc.	C29	Set oscillator to dial scale
13(c)	Antenna Post (Re- move line ant.)	270 ohms	45 Mc. Unmodulated	FM 45	45 Mc.	C5 and C30	Align detector & ant. stages for maximum reading