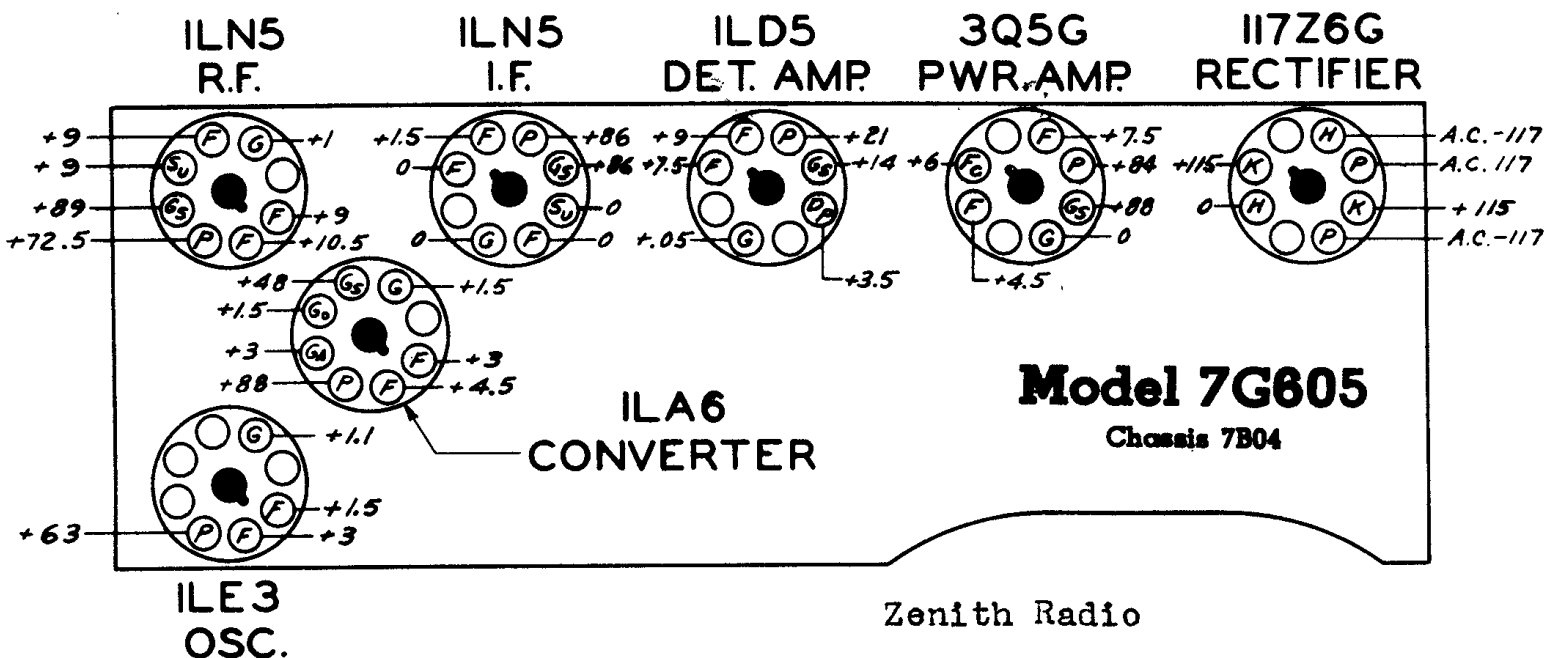


DIAG. N ^o	PART N ^o	DESCRIPTION	DIAG. N ^o	PART N ^o	DESCRIPTION	DIAG. N ^o	PART N ^o	DESCRIPTION	DIAG. N ^o	PART N ^o	DESCRIPTION
C1	22-1308	THREE GANG VARIABLE	C26	22-1282	40 MFD. ELECTROLYTIC	24	44-17	HEADPHONE JACK			
C2	22-827	.1 MFD.	C27	OR	40 MFD. "	A		1ST I.F. TRANS. PRI.			
C3	22-1130	15 MMFD.	C28	22-1159	20 MFD. "	B		1ST I.F. " SEC.			
C4	22-1312	100 MMFD. COMP.	C29	22-326	.003 MFD. "	C		2ND I.F. TRANS. PRI.			
C5	22-1332	200 MMFD. COMP.				D		2ND I.F. " SEC.			
C6	22-705	150 MMFD. COMP.	R1	63-596	330M OHM	F		BROADCAST OSC. (ON GANG)			
C7	22-702	250 MMFD. COMP.	R2	63-641	10M OHM	G		BROADCAST ANT. (ON GANG)			
C8	22-1311	75 MMFD. COMP.	R3	63-773	180M OHM	H		BROADCAST DET. (ON GANG)			
C9	22-1310	50 MMFD. COMP.	R4	63-325	150M OHM	K1		SHORTWAVE OSC. 6 MC.			
C10	22-162	.0001 MFD.	R5	63-648	47M OHM	K2		SHORTWAVE OSC. 9 MC.			
C11	22-327	.02 MFD.	R6	63-592	33M OHM	K3		SHORTWAVE OSC. 12 MC.			
C12	22-289	50 MMFD.	R7	63-600	2.2 MEGOHM	K4		SHORTWAVE OSC. 15 MC.			
C13	22-829	.05 MFD.	R8	63-761	10M OHM	K5		SHORTWAVE OSC. 18 MC.			
C14	22-826	.01 MFD.	R9	63-602	4.7 MEGOHM	L1		SHORTWAVE DET. 6 MC.			
C15	22-1207	.07 MFD.	R10	63-583	1000 OHM	L2		SHORTWAVE DET. 9 MC.			
C16	22-887	.001 MFD.	R11	63-1265	VOLUME CONTROL	L3		SHORTWAVE DET. 12 MC.			
C17	22-492	.002 MFD.	R12	63-976	15 MEGOHM	L4		SHORTWAVE DET. 15 MC.			
C18	22-953	.0002 MFD.	R13	63-580	330 OHM	L5		SHORTWAVE DET. 18 MC.			
C19	22-470	.00015 MFD.	R14	63-577	100 OHM	G1		WAVEROOD TRIMMER (SEE NOTE)			
C20	22-196	.01 MFD.	R15	63-594	68M OHM	M1		WAVEROOD COMPENSATOR (SEE NOTE)			
C21	22-448	.004 MFD.	R16	63-271	1 MEGOHM	M2		SHORTWAVE ANT. 19M.			
C22	22-1307	40 MFD. ELECTROLYTIC	R17	63-941	390 OHM WIREWOUND	M3		SHORTWAVE ANT. 25M.			
C23	OR	20 MFD. "	R18	63-1264	THREE SECTION CANOONH			SHORTWAVE ANT. 31M.			
C24	22-1530	40 MFD. "	R19	63-1156	1800 OHM						
C25	22-869	.05 MFD.									
						1	510680	BROADCAST WAVE MAGNET			
						2	510682	SHORTWAVE WAVE MAGNET			
						3	85-314	ANTENNA POLE SWITCH			
						4	85-225	WAVE MAGNET SWITCH			
						5	510670	ANTENNA COIL ASSEM.			
						6	510298	DETECTOR COIL ASSEM.			
						7	510284	6MC. ANTENNA COIL ASSEM.			
						8	510289	9MC. " " "			
						9	510288	12 MC. " " "			
						10	510296	15MC. " " "			
						11	510297	18MC. " " "			
						12	510281	6MC. OSCILLATOR COIL ASSEM.			
						13	510290	9MC. " " "			
						14	510285	12MC. " " "			
						15	510293	15MC. " " "			
						16	510294	18MC. " " "			
						17	510295	BC. " " "			
						18	85-312	AUTOMATIC BAND SWITCH			
						19	85-322	SHORTWAVE LOOP SWITCH			
						20	95-862	1ST I.F. TRANSFORMER			
						21	95-863	2ND I.F. TRANSFORMER			
						22	85-313	TONE CONTROL SWITCH			
						23	85-311	POWER CHANGE-OVER SWITCH			

NOTE: TRIMMERS M1, M2, M3 ARE MOUNTED ON STRIP 72-1230.



All voltages measured with a 20,000 ohm per volt meter from B minus to socket contact indicated.

All voltages are positive D.C. unless marked otherwise.

Volume control full on.

Line voltage 117 A.C. or D.C. 25 to 60 cycle or Battery Pack Z-985 and two flashlight cells.

Power consumption 85 watts.

Power output .35 watts.

Tuning ranges:

540 to 1620 Kc.

6.0 to 6.5 Mc.

9.4 to 9.8 Mc.

11.7 to 11.9 Mc.

15.1 to 15.3 Mc.

17.6 to 18.0 Mc.

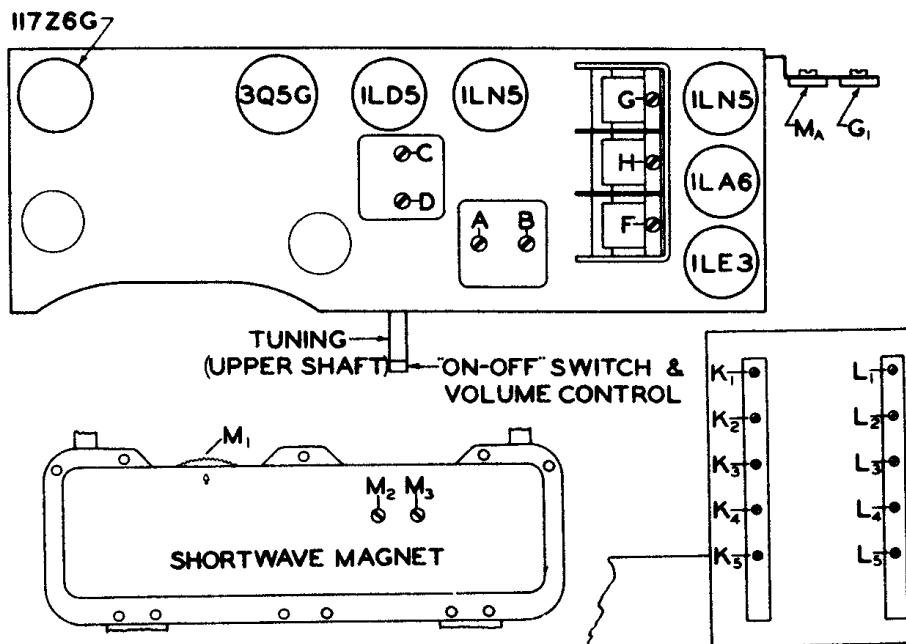
Stage Gains
Bc. and I.F.

Ant. to R.F. grid 5X at 1000 Kc.

R.F. grid to conv. grid 9X at 1000 Kc.

Conv. grid to I.F. grid 86X at 455 Kc.

Overall audio 900X at .05 watt.
400 cycles.



ALIGNMENT PROCEDURE

Operation	Connect Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Set Dial At	Trimmers	Purpose
1	Conv. grid	.1 mid.	455 Kc.	BC	600 Kc.	A, B, C, D	Align I.F.
2	One Turn Loop Coupled Loosely to Broadcast Wavemagnet		1600 Kc.	BC	1600 Kc.	F	Set oscillator to scale
3			1400 Kc.	BC	1400 Kc.	H	Alignment of detector section
4			1400 Kc.	BC	1400 Kc.	G	Alignment of B.C. Wavemagnet
5			1400 Kc.	BC	1400 Kc.	G ₁	B.C. waverod alignment
6			6.3 Mc.	49 Met.	6.2 Mc.	K ₁ -L ₁	Alignment of S.W. Oscillators and Antenna Trimmers
7	3 Feet of Wire Approximately 1 Foot from Extended Waverod		9.6 Mc.	31 Met.	9.6 Mc.	K ₁ -L ₂	
8			11.8 Mc.	25 Met.	11.8 Mc.	K ₁ -L ₃	
9			15.2 Mc.	19 Met.	15.2 Mc.	K ₁ -L ₄	
10			17.8 Mc.	16 Met.	17.8 Mc.	K ₁ -L ₅	
11	One Turn Loop Coupled Loosely to Shortwave Magnet Waverod Collapsed		15.3 Mc.	19 Met.	15.2 Mc.	M ₁ -M ₂	
12			11.8 Mc.	35 Met.	11.8 Mc.	M ₂	
13			9.6 Mc.	31 Met.	9.6 Mc.	M ₃	