

MODEL 12H678
12H679

SPEAKER 49-453 12"
49-453 12"

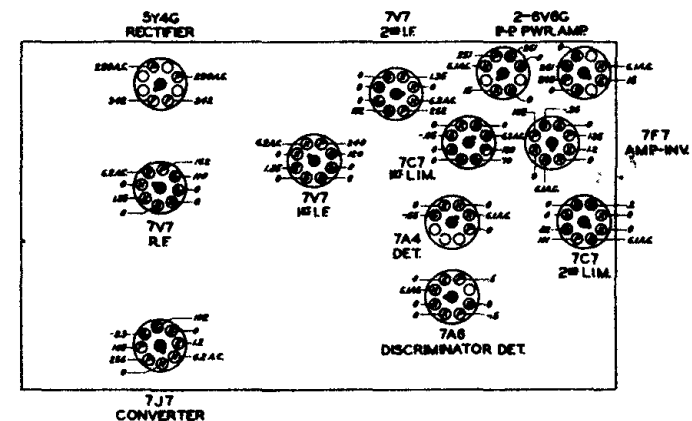
QWG. PART NO.	DESCRIPTION	QWG. PART NO.	DESCRIPTION	QWG. PART NO.	DESCRIPTION	QWG. PART NO.	DESCRIPTION
C1 22-1121	TWO BAND VARIABLE	C29 22-1153	.005 MFD.	600V	R16 63-546	33M OHM	1W
C2 22-379	.005 MFD.	C30 22-127	.02 MFD.	600V	R17 63-599	1.5 MEG OHM	1/2W
C3 22-3871	1 MFD.	C31 22-1171	.0005 MFD.	600V	R18 63-607	15M OHM	1/2W
C4 22-3899	.05 MFD.	C32 22-1125	.01 MFD.	600V	R19 63-597	670M OHM	1/2W
C5 22-1123	5 MFD. ELECTROLYTIC	C33 22-442	.005 MFD.	600V	R20 63-160	100M OHM	1/2W
C6 22-443	.01 MFD.	C34 22-553	.0005 MFD.	600V	R21 63-596	530M OHM	1/2W
C7 22-1146	20 MFD. COMP.	C35 22-1124	.005 MFD.	600V	R22 63-530	600M OHM	1/2W
C8 22-1193	50 MFD. COMP.	C36 22-1124	10 MFD. ELECTROLYTIC	600V	R23 63-1179	1000 OHM	1/2W
C9 22-1193	15 MFD. CERAMIC	C37 22-1124	.01 MFD.	600V	R24 63-1076	VOLUME CONTROL	600V
C10 22-368	COMPENSATING COND.	C38 22-1061	.005 MFD.	600V	R25 63-741	670 OHM	1/2W
C11 22-1061	.005 MFD.				R26 63-593	670M OHM	1/2W
C12 22-379	.005 MFD.				R27 63-596	60M OHM	1/2W
C13 22-1160	50 MFD. COMP.				R28 63-596	1000 OHM	1/2W
C14 22-1123	5 MFD. ELECTROLYTIC				R29 63-605	100M OHM	1/2W
C15 22-358	.005 MFD.				R30 63-717	220M OHM	1/2W
C16 22-379	.005 MFD.				R31 63-657	330M OHM	1/2W
C17 22-1123	.005 MFD.				R32 63-591	15M OHM	1/2W
C18 22-1123	.005 MFD.				R33 63-1129	500 OHM	1/2W
C19 22-127	.02 MFD.				R34 63-1130	6.8 OHM	1/2W
C20 22-1178	5 MFD. ELECTROLYTIC				R35 63-1130	100 OHM	1/2W
C21 22-1178	5 MFD. ELECTROLYTIC				R36 63-679	33M OHM	1/2W
C22 22-1178	5 MFD. ELECTROLYTIC						
C23 22-294	.005 MFD.						
C24 22-1153	.005 MFD.						
C25 22-348	.005 MFD.						
C26 22-1003	.005 MFD.						
C27 22-650	.05 MFD.						
C28 22-379	.005 MFD.						

Zenith Radio

Models 12H678-12H679

Chassis No. 12A6

AMP. MOD. IF FREQUENCY 455 KC.
FREQ. MOD. IF FREQUENCY 8.3 MC.
12 TUBE SUPERHETERODYNE
CHASSIS NO. 12A6 - A.C. 4 BAND
ZENITH RADIO CORPORATION



SOCKET VOLTAGES—BOTTOM VIEW

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

ALIGNMENT PROCEDURE

Operation	Connect Oscillator to	Dummy Antenna	Input Signal Frequency	Band	Set Dial At	Trimmers	Purpose
1	Con. Grid	0.5 mfd.	455 Kc.	BC	600 Kc.	A, B, C, D	Align I.F.
2	R.F. Grid	0.5 mfd.	455 Kc.	BC	600 Kc.	E	Adjust for minimum 455 Kc. signal
3	Ant. Z and G	400 ohm	18 Mc.	SW	18 Mc.	K	Scale SW Osc. at 18 meg.
4	"	"	18 Mc.	SW	16 Mc.	M	Align SW antenna
5	"	"	5 Mc.	Med.	5.0 Mc.	N	Scale med. band osc. at 5. meg.
6	"	"	4.5 Mc.	Med.	4.5 Mc.	Q	Align med. band antenna
7	One turn loop made with generator lead or Radex loop	—	1600 Kc.	BC	1600 Kc.	F	Set BC Osc. to scale at 1600 Kc.
8		—	1400 Kc.	BC	1400 Kc.	G	Align broadcast loop
9		—	600 Kc.	BC	600 Kc.	J	Rock gang to track BC padder
10	7V7 2nd I.F. Grid	0.5 mfd.	8.3 Mc.	Man. F.M.	42.5 Mc.	A ₁	Align for max. deflection across 1/2 discrim. load
11	"	"	"	"	"	B ₁	Align for zero deflection across full discrim. load
12	"	"	"	"	"	A ₂ - B ₂	Align for max. deflection across 1/2 discrim. load
13	7V7 1st I.F. Grid	"	"	"	"	A ₂ - B ₂	"
14	Converter Grid	"	"	"	"	A ₁ - B ₁	"
15	F.M. Ant. Terminal	100 ohm	46 Mc.	"	46 Mc.	Adj. cam on gang to scale osc.	Align for zero deflection across full discrim. load
16	"	"	42.5 Mc.	"	42.5 Mc.	P ₁	Align for max. deflection across 1/2 discrim. load
17	"	"	49 Mc.	"	49 Mc.	P ₂	"
18	"	"	46 Mc.	"	46 Mc.	Z	"

Models 12H678-12H679

Chassis No. 12A6

Stage Gains
Bc. and I.F.

Ant. to R.F. grid $6.5\times$ at 1000 Kc.
R.F. grid to conv. grid $28.1\times$ at 1000 Kc.

Conv. grid to I.F. grid $265\times$ at 455 Kc.

Overall audio $807\times$ at 1 watt, 400 cycles.

