

Zenith Radio Corp.

Model: 5D011

Chassis:

Year: Pre 1948

Power:

Circuit:

IF:

Tubes:

Bands:

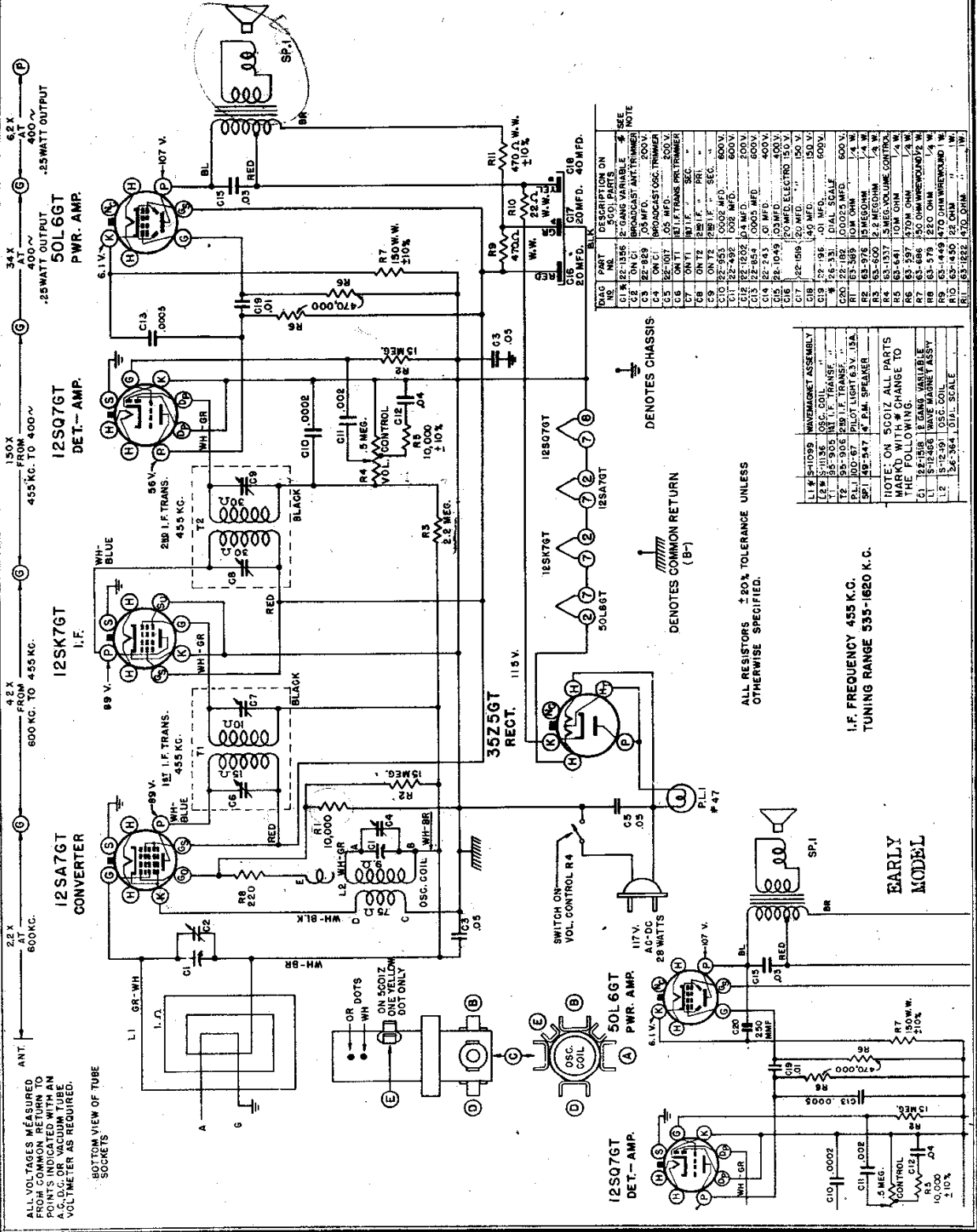
Resources

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ZENITH RADIO CORP.

MODELS 5D011, 5D011W,
5D011Y, 5D027, Ch. 5C01
5D011Z, 5D011ZW, 5D011ZY,
5D027Z, Early, Late
Chassis 5C01Z



QIAC NO.	PART NO.	DESCRIPTION ON	SEE NOTE
C1	22-1356	2 GANG VARIABLE	*
C2	ON C1	BROADCAST ANT. TRIMMER	*
C3	22-829	.05 MFD.	200V.
C4	ON C1	BROADCAST OSC. TRIMMER	*
C5	24-31	15T. TRANS. PRE-TRIMMER	
C6	ON Y1	15T. TRANS. PRE-TRIMMER	
C7	ON Y1	15T. TRANS. PRE-TRIMMER	
C8	ON T2	25T. TRANS. PRE-TRIMMER	
C9	ON T2	25T. TRANS. PRE-TRIMMER	
C10	22-853	.0002 MFD.	600V.
C11	22-492	.002 MFD.	200V.
C12	22-1202	.001 MFD.	500V.
C13	22-243	.01 MFD.	400V.
C14	22-243	.01 MFD.	400V.
C15	22-1049	.001 MFD.	400V.
C16	20-15R	20 MFD. ELECTRO.	150 V.
C17	22-15R	20 MFD.	150 V.
C18	20-15R	20 MFD.	150 V.
C19	22-196	.01 MFD.	600V.
C20	22-196	.01 MFD.	600V.
C21	22-196	.01 MFD.	600V.
C22	22-196	.01 MFD.	600V.
C23	22-196	.01 MFD.	600V.
C24	22-196	.01 MFD.	600V.
C25	22-196	.01 MFD.	600V.
C26	22-196	.01 MFD.	600V.
C27	22-196	.01 MFD.	600V.
C28	22-196	.01 MFD.	600V.
C29	22-196	.01 MFD.	600V.
C30	22-196	.01 MFD.	600V.
C31	22-196	.01 MFD.	600V.
C32	22-196	.01 MFD.	600V.
C33	22-196	.01 MFD.	600V.
C34	22-196	.01 MFD.	600V.
C35	22-196	.01 MFD.	600V.
C36	22-196	.01 MFD.	600V.
C37	22-196	.01 MFD.	600V.
C38	22-196	.01 MFD.	600V.
C39	22-196	.01 MFD.	600V.
C40	22-196	.01 MFD.	600V.
C41	22-196	.01 MFD.	600V.
C42	22-196	.01 MFD.	600V.
C43	22-196	.01 MFD.	600V.
C44	22-196	.01 MFD.	600V.
C45	22-196	.01 MFD.	600V.
C46	22-196	.01 MFD.	600V.
C47	22-196	.01 MFD.	600V.
C48	22-196	.01 MFD.	600V.
C49	22-196	.01 MFD.	600V.
C50	22-196	.01 MFD.	600V.
C51	22-196	.01 MFD.	600V.
C52	22-196	.01 MFD.	600V.
C53	22-196	.01 MFD.	600V.
C54	22-196	.01 MFD.	600V.
C55	22-196	.01 MFD.	600V.
C56	22-196	.01 MFD.	600V.
C57	22-196	.01 MFD.	600V.
C58	22-196	.01 MFD.	600V.
C59	22-196	.01 MFD.	600V.
C60	22-196	.01 MFD.	600V.
C61	22-196	.01 MFD.	600V.
C62	22-196	.01 MFD.	600V.
C63	22-196	.01 MFD.	600V.
C64	22-196	.01 MFD.	600V.
C65	22-196	.01 MFD.	600V.
C66	22-196	.01 MFD.	600V.
C67	22-196	.01 MFD.	600V.
C68	22-196	.01 MFD.	600V.
C69	22-196	.01 MFD.	600V.
C70	22-196	.01 MFD.	600V.
C71	22-196	.01 MFD.	600V.
C72	22-196	.01 MFD.	600V.
C73	22-196	.01 MFD.	600V.
C74	22-196	.01 MFD.	600V.
C75	22-196	.01 MFD.	600V.
C76	22-196	.01 MFD.	600V.
C77	22-196	.01 MFD.	600V.
C78	22-196	.01 MFD.	600V.
C79	22-196	.01 MFD.	600V.
C80	22-196	.01 MFD.	600V.
C81	22-196	.01 MFD.	600V.
C82	22-196	.01 MFD.	600V.
C83	22-196	.01 MFD.	600V.
C84	22-196	.01 MFD.	600V.
C85	22-196	.01 MFD.	600V.
C86	22-196	.01 MFD.	600V.
C87	22-196	.01 MFD.	600V.
C88	22-196	.01 MFD.	600V.
C89	22-196	.01 MFD.	600V.
C90	22-196	.01 MFD.	600V.
C91	22-196	.01 MFD.	600V.
C92	22-196	.01 MFD.	600V.
C93	22-196	.01 MFD.	600V.
C94	22-196	.01 MFD.	600V.
C95	22-196	.01 MFD.	600V.
C96	22-196	.01 MFD.	600V.
C97	22-196	.01 MFD.	600V.
C98	22-196	.01 MFD.	600V.
C99	22-196	.01 MFD.	600V.
C100	22-196	.01 MFD.	600V.

LL #	DESCRIPTION
LL # 5-1089	NAVIGATOR ASSEMBLY
LL # 5-1136	OSC. COIL TRANS.
LL # 5-1137	OSC. COIL TRANS.
LL # 5-1138	OSC. COIL TRANS.
LL # 5-1139	OSC. COIL TRANS.
LL # 5-1140	OSC. COIL TRANS.
LL # 5-1141	OSC. COIL TRANS.
LL # 5-1142	OSC. COIL TRANS.
LL # 5-1143	OSC. COIL TRANS.
LL # 5-1144	OSC. COIL TRANS.
LL # 5-1145	OSC. COIL TRANS.
LL # 5-1146	OSC. COIL TRANS.
LL # 5-1147	OSC. COIL TRANS.
LL # 5-1148	OSC. COIL TRANS.
LL # 5-1149	OSC. COIL TRANS.
LL # 5-1150	OSC. COIL TRANS.
LL # 5-1151	OSC. COIL TRANS.
LL # 5-1152	OSC. COIL TRANS.
LL # 5-1153	OSC. COIL TRANS.
LL # 5-1154	OSC. COIL TRANS.
LL # 5-1155	OSC. COIL TRANS.
LL # 5-1156	OSC. COIL TRANS.
LL # 5-1157	OSC. COIL TRANS.
LL # 5-1158	OSC. COIL TRANS.
LL # 5-1159	OSC. COIL TRANS.
LL # 5-1160	OSC. COIL TRANS.
LL # 5-1161	OSC. COIL TRANS.
LL # 5-1162	OSC. COIL TRANS.
LL # 5-1163	OSC. COIL TRANS.
LL # 5-1164	OSC. COIL TRANS.
LL # 5-1165	OSC. COIL TRANS.
LL # 5-1166	OSC. COIL TRANS.
LL # 5-1167	OSC. COIL TRANS.
LL # 5-1168	OSC. COIL TRANS.
LL # 5-1169	OSC. COIL TRANS.
LL # 5-1170	OSC. COIL TRANS.
LL # 5-1171	OSC. COIL TRANS.
LL # 5-1172	OSC. COIL TRANS.
LL # 5-1173	OSC. COIL TRANS.
LL # 5-1174	OSC. COIL TRANS.
LL # 5-1175	OSC. COIL TRANS.
LL # 5-1176	OSC. COIL TRANS.
LL # 5-1177	OSC. COIL TRANS.
LL # 5-1178	OSC. COIL TRANS.
LL # 5-1179	OSC. COIL TRANS.
LL # 5-1180	OSC. COIL TRANS.
LL # 5-1181	OSC. COIL TRANS.
LL # 5-1182	OSC. COIL TRANS.
LL # 5-1183	OSC. COIL TRANS.
LL # 5-1184	OSC. COIL TRANS.
LL # 5-1185	OSC. COIL TRANS.
LL # 5-1186	OSC. COIL TRANS.
LL # 5-1187	OSC. COIL TRANS.
LL # 5-1188	OSC. COIL TRANS.
LL # 5-1189	OSC. COIL TRANS.
LL # 5-1190	OSC. COIL TRANS.
LL # 5-1191	OSC. COIL TRANS.
LL # 5-1192	OSC. COIL TRANS.
LL # 5-1193	OSC. COIL TRANS.
LL # 5-1194	OSC. COIL TRANS.
LL # 5-1195	OSC. COIL TRANS.
LL # 5-1196	OSC. COIL TRANS.
LL # 5-1197	OSC. COIL TRANS.
LL # 5-1198	OSC. COIL TRANS.
LL # 5-1199	OSC. COIL TRANS.
LL # 5-1200	OSC. COIL TRANS.

I.F. FREQUENCY 455 K.C.
TUNING RANGE 535-1620 K.C.

ALL RESISTORS ±20% TOLERANCE UNLESS OTHERWISE SPECIFIED.

12SK7GT
12SQ7GT
50L6GT
12SA7GT
12SQ7GT
12SA7GT

35Z5GT RECT. 115 V.

50L6GT P.W.R. AMP.

50L6GT P.W.R. AMP.

50L6GT P.W.R. AMP.

50L6GT P.W.R. AMP.

50L6GT P.W.R. AMP.

EARLY MODEL

ALL VOLTAGES MEASURED FROM COMMON RETURN TO POINTS INDICATED WITH PEN VOLT-METER AS REQUIRED.
BOTTOM VIEW OF TUBE SOCKETS

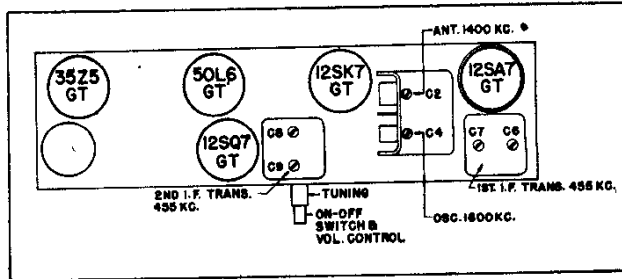
ZENITH RADIO CORP.

MODELS 5D011 Series,
5D011Z Series
MODELS 5R080, 5R086

TO THE SERVICE MAN:

The filter circuits of chassis 5C01 incorporate new features that should be well understood by the service man. An examination of the schematic drawing will show the output transformer tapped slightly off center. This tap is the B+ connection from filter resistor R10 and capacitor C18 off the cathode of the rectifier 35Z5 to the 50L6 plate. The lower connection of the output transformer feeds B+ to the rest of the tubes in the receiver. Current flowing through the upper windings of the output transformer to the 50L6 produces a magnetic field which is 180° out of phase with the magnetic field produced by current flowing in the opposite direction through the output transformer to the rest of the receiver, therefore, most of the AC hum is cancelled. Further reduction of hum is accomplished by filtering through resistor R9 and 11 and capacitors C16 and 17. Capacitor C15 across the primary of the output transformer by passes high frequency back to ground.

This development in filtering systems allows a higher effective plate voltage on the 50L6 for increased power output.



TUBE AND TRIMMER LOCATION

NOTE: The output transformer must be replaced with an exact duplicate Part No. 202-549. Be sure to add the speaker code letter to the transformer Part number.

MODELS 5D011-5D027
CHASSIS No. 5C01
ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIG. FREQUENCY	SET DIAL AT	TRIMMERS	PURPOSE
1	Converter Grid	.5 Mfd.	455 Kc.	600 Kc.	C-6, C-7, C-8, C-9	Align I. F.
2	One Turn Loop Coupled Loosely to Wave Magnet	--	1600 Kc.	1600 Kc.	C-4	Set Oscillator to Dial Scale.
3		--	1400 Kc.	1400 Kc.	C-2	Align Antenna Stage

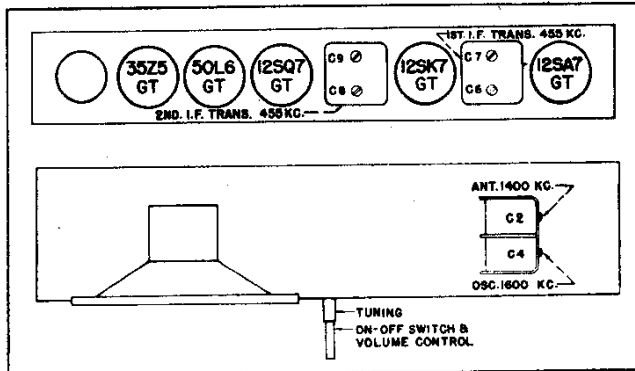
TO THE SERVICE MAN:

The 5C02 and 5C04 chassis are identical electrically. Chassis 5C02 has a Record Reject push button switch on the receiver control panel to reject records.

The socket P1 is used to connect the automatic record changer to the receiver.

The Phono-Radio switch is a two position double acting push-button switch and when in the "in" position connects the changer for playing records.

Chassis 5C04 has the same Phono-Radio switch arrangement. However, the 5C04 does not have socket P1 and the Record Reject switch. The record player is connected to the receiver by a shielded cable and socket arrangement.



TUBE AND TRIMMER LOCATION

MODELS 5R080-5R086
CHASSIS Nos. 5C02-5C04
ALIGNMENT PROCEDURE

OPERATION	CONNECT OSCILLATOR TO	DUMMY ANTENNA	INPUT SIG. FREQUENCY	SET DIAL AT	TRIMMERS	PURPOSE
1	Converter Grid	.5 Mfd.	455 Kc.	600 KC.	C-6, C-7, C-8, C-9	Align I. F.
2	Single Turn Loop Loosely Coupled to Wave magnet		1600 Kc.	1600 Kc.	C-4	Set Oscillator to Dial Scale.
3			1400 Kc.	1400 Kc.	C-2	Align Ant