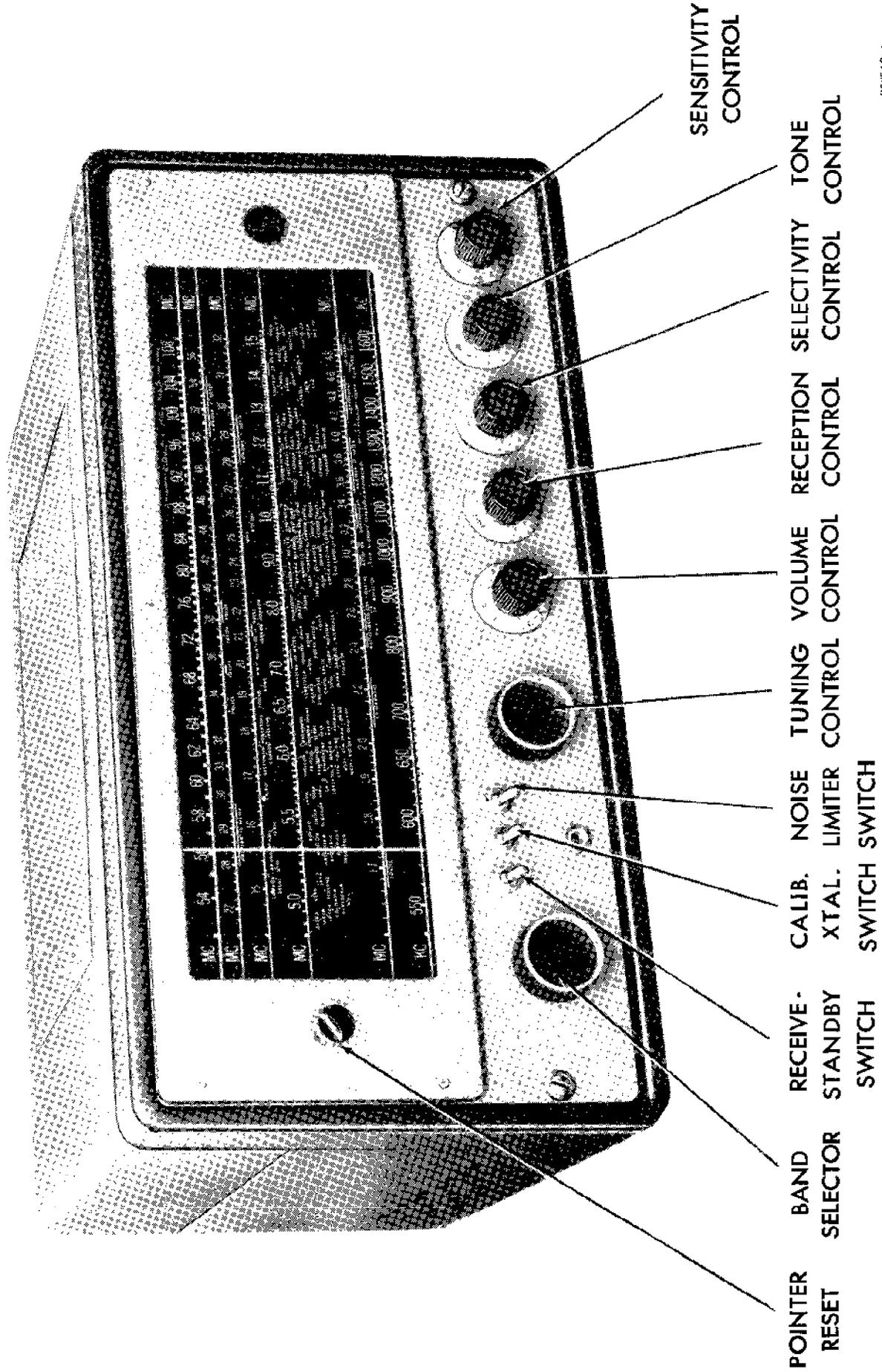


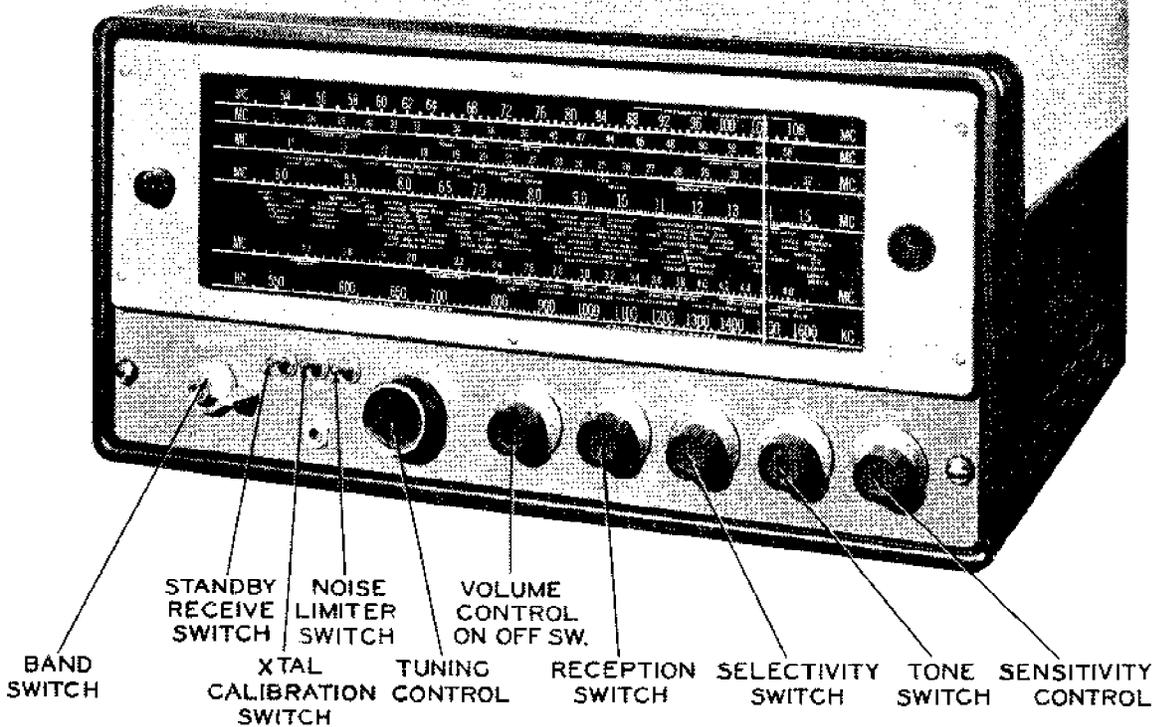


**the hallicrafters co.**  
MANUFACTURERS OF RADIO AND TELEPHONE EQUIPMENT, CHICAGO 24, U. S. A.



9235:9-A

Fig. 1. Radio Receiver Model SX-62/62U



**HALLICRAFTERS  
 MODEL SX-62**

HALLICRAFTERS MODEL SX-62

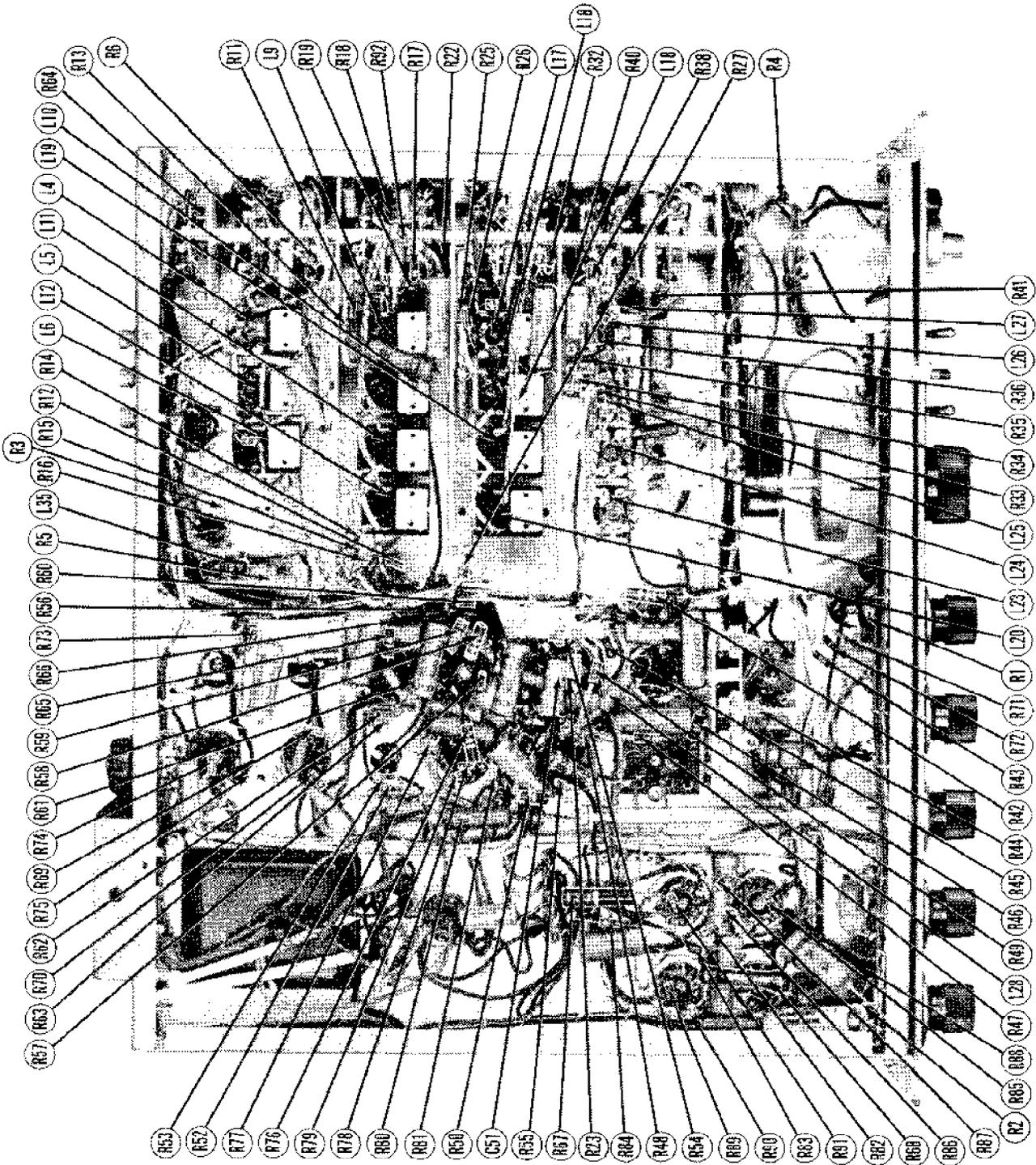
TRADE NAME Hallcrafters, Model SX-62  
 MANUFACTURER The Hallcrafters Co., 5th & Kostner Avenues, Chicago 24, Illinois  
 TYPE SET AC Operated Multi-Band AM-FM Superheterodyne Receiver  
 TUBES(SIXTEEN) Types 6C4 XTAL Calib. Csc., 6AG5 1st RF Amp., 6AG5 2nd RF Amp., 7F8 Converter, 6XK7 1st IF Amp., 6XG7 2nd IF Amp., 7H7 3rd IF Amp., 7H7 4th FM IF Amp.-AM DET-AVC, 6H6 Discriminator, 7A4 CW Beat Csc. 6H6 Noise Limiter, 6SL7GT AF-Phase Inv. (2) 6V6GT Power Output, OD3/VR-150 Voltage Regulator, 5U4G Rectifier  
 POWER SUPPLY 105-125 Volts AC RATING .98 Amp., @ 117 Volts AC  
 TUNING RANGE Band #1 550-1620KC, Band#2 1.62-1.9MC, Band#3 4.2-15MC, Band#4 15-32MC, Band#5 27-56MC AM-FM, Band#6 54-109MC AM-FM.

**HOWARD W. SAMS & CO., INC. • Indianapolis Indiana**

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**HALLICRAFTERS  
MODEL SX-62**

# PARTS LIST AND DESCRIPTIONS (Continued)

## RESISTORS

ITEM No.	USE	REPLACEMENT DATA		RATING	RESISTANCE	TOLERANCE	REPLACEMENT DATA		IDENTIFICATION CODES
		HALLICRAFTERS PART No.	STANDARD REPLACEMENT				HALLICRAFTERS PART No.	IRC PART No.	
H27	XTAL. Cal. Lib. Osc.	604	604	1200Ω	±1%	RC20A1223	3TS-1200	Br.-Red-Red	2nd BF Decoupling
H28	1st RF Amp.	605	605	1.5k	±5%	RC20A1205	1W5-1.5k	Br.-Grn.-Blk.	RF Coil Shunt
H29	2nd RF Amp.	606	606	2.2 Meg.	±5%	RC20A1206	2M2-2.2 Meg.	Br.-Blk.-Grn.	Converter Cathode
H30	Converter	607	607	1000Ω	±5%	RC20A1207	3TS-1000	Br.-Blk.-Blk.	Parasitic Suppressor
H31	1st IF Amp.	608	608	470Ω	±5%	RC20A1208	47S-470	Br.-Blk.-Blk.	2nd IF Decoupling
H32	2nd IF Amp.	609	609	2200Ω	±5%	RC20A1209	2TS-2200	Br.-Blk.-Blk.	Osc. Coil Shunt
H33	3rd IF Amp.	610	610	560Ω	±5%	RC20A1210	56S-560	Br.-Blk.-Blk.	Osc. Grid
H34	4th IF Amp.	611	611	4700Ω	±5%	RC20A1211	47S-4700	Br.-Blk.-Blk.	Osc. Coil Shunt
H35	AM-DET-AVC	612	612	330Ω	±5%	RC20A1212	33S-330	Br.-Grn.-Blk.	"
H36	1st Limiter	613	613	150Ω	±5%	RC20A1213	15S-150	Br.-Grn.-Blk.	"
H37	2nd Limiter	614	614	10kΩ	±5%	RC20A1214	10S-10k	Br.-Blk.-Gr.	Osc. Grid
H38	3rd Limiter	615	615	1000Ω	±5%	RC20A1215	10S-1000	Br.-Blk.-Gr.	Osc. Plate Decoupling
H39	4th Limiter	616	616	470Ω	±5%	RC20A1216	47S-470	Br.-Blk.-Gr.	Mixer Decoupling
H40	1st IF Plate	617	617	560Ω	±5%	RC20A1217	56S-560	Br.-Blk.-Gr.	AFC Network
H41	2nd IF Plate	618	618	1000Ω	±5%	RC20A1218	10S-1000	Br.-Blk.-Gr.	1st IF Cathode
H42	3rd IF Plate	619	619	2.2 Meg.	±5%	RC20A1219	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H43	4th IF Plate	620	620	560Ω	±5%	RC20A1220	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H44	1st IF Cathode	621	621	1000Ω	±5%	RC20A1221	10S-1000	Br.-Blk.-Gr.	AFC Network
H45	2nd IF Cathode	622	622	2.2 Meg.	±5%	RC20A1222	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H46	3rd IF Cathode	623	623	560Ω	±5%	RC20A1223	56S-560	Br.-Blk.-Gr.	AFC Network
H47	4th IF Cathode	624	624	1000Ω	±5%	RC20A1224	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H48	1st IF Cathode	625	625	2.2 Meg.	±5%	RC20A1225	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H49	2nd IF Cathode	626	626	560Ω	±5%	RC20A1226	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H50	3rd IF Cathode	627	627	1000Ω	±5%	RC20A1227	10S-1000	Br.-Blk.-Gr.	AFC Network
H51	4th IF Cathode	628	628	2.2 Meg.	±5%	RC20A1228	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H52	1st IF Cathode	629	629	560Ω	±5%	RC20A1229	56S-560	Br.-Blk.-Gr.	AFC Network
H53	2nd IF Cathode	630	630	1000Ω	±5%	RC20A1230	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H54	3rd IF Cathode	631	631	2.2 Meg.	±5%	RC20A1231	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H55	4th IF Cathode	632	632	560Ω	±5%	RC20A1232	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H56	1st IF Cathode	633	633	1000Ω	±5%	RC20A1233	10S-1000	Br.-Blk.-Gr.	AFC Network
H57	2nd IF Cathode	634	634	2.2 Meg.	±5%	RC20A1234	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H58	3rd IF Cathode	635	635	560Ω	±5%	RC20A1235	56S-560	Br.-Blk.-Gr.	AFC Network
H59	4th IF Cathode	636	636	1000Ω	±5%	RC20A1236	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H60	1st IF Cathode	637	637	2.2 Meg.	±5%	RC20A1237	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H61	2nd IF Cathode	638	638	560Ω	±5%	RC20A1238	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H62	3rd IF Cathode	639	639	1000Ω	±5%	RC20A1239	10S-1000	Br.-Blk.-Gr.	AFC Network
H63	4th IF Cathode	640	640	2.2 Meg.	±5%	RC20A1240	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H64	1st IF Cathode	641	641	560Ω	±5%	RC20A1241	56S-560	Br.-Blk.-Gr.	AFC Network
H65	2nd IF Cathode	642	642	1000Ω	±5%	RC20A1242	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H66	3rd IF Cathode	643	643	2.2 Meg.	±5%	RC20A1243	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H67	4th IF Cathode	644	644	560Ω	±5%	RC20A1244	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H68	1st IF Cathode	645	645	1000Ω	±5%	RC20A1245	10S-1000	Br.-Blk.-Gr.	AFC Network
H69	2nd IF Cathode	646	646	2.2 Meg.	±5%	RC20A1246	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H70	3rd IF Cathode	647	647	560Ω	±5%	RC20A1247	56S-560	Br.-Blk.-Gr.	AFC Network
H71	4th IF Cathode	648	648	1000Ω	±5%	RC20A1248	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H72	1st IF Cathode	649	649	2.2 Meg.	±5%	RC20A1249	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H73	2nd IF Cathode	650	650	560Ω	±5%	RC20A1250	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H74	3rd IF Cathode	651	651	1000Ω	±5%	RC20A1251	10S-1000	Br.-Blk.-Gr.	AFC Network
H75	4th IF Cathode	652	652	2.2 Meg.	±5%	RC20A1252	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H76	1st IF Cathode	653	653	560Ω	±5%	RC20A1253	56S-560	Br.-Blk.-Gr.	AFC Network
H77	2nd IF Cathode	654	654	1000Ω	±5%	RC20A1254	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H78	3rd IF Cathode	655	655	2.2 Meg.	±5%	RC20A1255	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H79	4th IF Cathode	656	656	560Ω	±5%	RC20A1256	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H80	1st IF Cathode	657	657	1000Ω	±5%	RC20A1257	10S-1000	Br.-Blk.-Gr.	AFC Network
H81	2nd IF Cathode	658	658	2.2 Meg.	±5%	RC20A1258	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H82	3rd IF Cathode	659	659	560Ω	±5%	RC20A1259	56S-560	Br.-Blk.-Gr.	AFC Network
H83	4th IF Cathode	660	660	1000Ω	±5%	RC20A1260	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H84	1st IF Cathode	661	661	2.2 Meg.	±5%	RC20A1261	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H85	2nd IF Cathode	662	662	560Ω	±5%	RC20A1262	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H86	3rd IF Cathode	663	663	1000Ω	±5%	RC20A1263	10S-1000	Br.-Blk.-Gr.	AFC Network
H87	4th IF Cathode	664	664	2.2 Meg.	±5%	RC20A1264	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H88	1st IF Cathode	665	665	560Ω	±5%	RC20A1265	56S-560	Br.-Blk.-Gr.	AFC Network
H89	2nd IF Cathode	666	666	1000Ω	±5%	RC20A1266	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H90	3rd IF Cathode	667	667	2.2 Meg.	±5%	RC20A1267	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H91	4th IF Cathode	668	668	560Ω	±5%	RC20A1268	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H92	1st IF Cathode	669	669	1000Ω	±5%	RC20A1269	10S-1000	Br.-Blk.-Gr.	AFC Network
H93	2nd IF Cathode	670	670	2.2 Meg.	±5%	RC20A1270	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H94	3rd IF Cathode	671	671	560Ω	±5%	RC20A1271	56S-560	Br.-Blk.-Gr.	AFC Network
H95	4th IF Cathode	672	672	1000Ω	±5%	RC20A1272	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H96	1st IF Cathode	673	673	2.2 Meg.	±5%	RC20A1273	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H97	2nd IF Cathode	674	674	560Ω	±5%	RC20A1274	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H98	3rd IF Cathode	675	675	1000Ω	±5%	RC20A1275	10S-1000	Br.-Blk.-Gr.	AFC Network
H99	4th IF Cathode	676	676	2.2 Meg.	±5%	RC20A1276	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H100	1st IF Cathode	677	677	560Ω	±5%	RC20A1277	56S-560	Br.-Blk.-Gr.	AFC Network
H101	2nd IF Cathode	678	678	1000Ω	±5%	RC20A1278	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H102	3rd IF Cathode	679	679	2.2 Meg.	±5%	RC20A1279	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H103	4th IF Cathode	680	680	560Ω	±5%	RC20A1280	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H104	1st IF Cathode	681	681	1000Ω	±5%	RC20A1281	10S-1000	Br.-Blk.-Gr.	AFC Network
H105	2nd IF Cathode	682	682	2.2 Meg.	±5%	RC20A1282	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H106	3rd IF Cathode	683	683	560Ω	±5%	RC20A1283	56S-560	Br.-Blk.-Gr.	AFC Network
H107	4th IF Cathode	684	684	1000Ω	±5%	RC20A1284	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H108	1st IF Cathode	685	685	2.2 Meg.	±5%	RC20A1285	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H109	2nd IF Cathode	686	686	560Ω	±5%	RC20A1286	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H110	3rd IF Cathode	687	687	1000Ω	±5%	RC20A1287	10S-1000	Br.-Blk.-Gr.	AFC Network
H111	4th IF Cathode	688	688	2.2 Meg.	±5%	RC20A1288	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H112	1st IF Cathode	689	689	560Ω	±5%	RC20A1289	56S-560	Br.-Blk.-Gr.	AFC Network
H113	2nd IF Cathode	690	690	1000Ω	±5%	RC20A1290	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H114	3rd IF Cathode	691	691	2.2 Meg.	±5%	RC20A1291	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H115	4th IF Cathode	692	692	560Ω	±5%	RC20A1292	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H116	1st IF Cathode	693	693	1000Ω	±5%	RC20A1293	10S-1000	Br.-Blk.-Gr.	AFC Network
H117	2nd IF Cathode	694	694	2.2 Meg.	±5%	RC20A1294	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H118	3rd IF Cathode	695	695	560Ω	±5%	RC20A1295	56S-560	Br.-Blk.-Gr.	AFC Network
H119	4th IF Cathode	696	696	1000Ω	±5%	RC20A1296	10S-1000	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H120	1st IF Cathode	697	697	2.2 Meg.	±5%	RC20A1297	2M2-2.2 Meg.	Br.-Blk.-Gr.	AFC Network
H121	2nd IF Cathode	698	698	560Ω	±5%	RC20A1298	56S-560	Br.-Blk.-Gr.	2nd IF Screen Decoupling
H122	3rd IF Cathode	699	699	1000Ω	±5%	RC20A1299	10S-1000	Br.-Blk.-Gr.	AFC Network
H123	4th IF Cathode	700	700	2.2 Meg.	±5%	RC20A1300	2M2-2.2 Meg.	Br.-Blk.-Gr.	2nd IF Screen Decoupling

Note: Some models use two 47k resistors in parallel.

\*Not used in all models.

# PARTS LIST AND DESCRIPTIONS

## TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	HALLICRAFTERS PART No.	STANDARD REPLACEMENT	BMA BASE TYPE	NOTES
V1	XTAL. Cal. Lib. Osc.	604	604	619	
V2	1st RF Amp.	605	605	7E1	
V3	2nd RF Amp.	606	606	7E2	
V4	Converter	607	607	83A	
V5	1st IF Amp.	608	608	7B5	
V6	2nd IF Amp.	609	609	6X4	
V7	3rd IF Amp.	610	610	6Y7	
V8	4th IF Amp.	611	611	6Y7	
V9	AM-DET-AVC	612	612	6Y7	
V10	1st Limiter	613	613	616	
V11	2nd Limiter	614	614	616	
V12	3rd Limiter	615	615	616	
V13	4th Limiter	616	616	616	
V14	1st IF Plate	617	617	616	
V15	2nd IF Plate	618	618	616</	

**PARTS LIST AND DESCRIPTIONS (Continued)**

ITEM No.	RATING CAP. (VOLT)	REPLACEMENT DATA			IDENTIFICATION CODES AND INSTALLATION NOTES
		HALLICRAFT PART No.	AEROVOX PART No.	CORNELL-DUBIERRE PART No.	
044	.02	46AY20K3	F685-02	ST-6-02	1st IF Screen Bypass
045	.05	46AY20K3	F685-05	ST-6-05	1st IF Plate Decoupl.
046	.01	46AY20K3	F685-01	ST-6-01	AVC Filter
047	.05	46AY20K3	F685-05	ST-6-05	2nd IF Cath. Bypass
048	.05	46AY20K3	F685-05	ST-6-05	2nd IF Screen Bypass
049	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
050	.01	46AY20K3	F685-01	ST-6-01	AVC Filter
051	.01	46AY20K3	F685-01	ST-6-01	2nd IF Grid Filter
052	.01	46AY20K3	F685-01	ST-6-01	2nd IF Cath. Bypass
053	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
054	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
055	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
056	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
057	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
058	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
059	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
060	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
061	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
062	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
063	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
064	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
065	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
066	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
067	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
068	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
069	.02	46AY20K3	F685-02	ST-6-02	2nd IF Plate Decoupl.
070	.01	46AY20K3	F685-01	ST-6-01	2nd IF Cath. Bypass
071	.01	46AY20K3	F685-01	ST-6-01	2nd IF Cath. Bypass
072	.01	46AY20K3	F685-01	ST-6-01	2nd IF Cath. Bypass
073	.01	46AY20K3	F685-01	ST-6-01	2nd IF Cath. Bypass
074	.01	46AY20K3	F685-01	ST-6-01	2nd IF Cath. Bypass

§ Two 10PFD sections connected in parallel.  
Note: Not used in 6.1 model-S.

**CONTROLS**

ITEM No.	RATING RESISTANCE (WATTS)	REPLACEMENT DATA			INSTALLATION NOTES
		IRV PART No.	CLAROSTAT PART No.	IRV PART No.	
R3	4.7 Meg.	25A549	IR-63-2	Volume control	
R4	270K	25A549	IR-63-2	Volume control	
R5	100K	25A549	IR-63-2	Volume control	
R6	100K	25A549	IR-63-2	Volume control	
R7	150	25A549	IR-63-2	Volume control	
R8	150	25A549	IR-63-2	Volume control	
R9	150	25A549	IR-63-2	Volume control	
R10	220K	25A549	IR-63-2	Volume control	
R11	220K	25A549	IR-63-2	Volume control	
R12	100K	25A549	IR-63-2	Volume control	
R13	350K	25A549	IR-63-2	Volume control	
R14	2.2 Meg.	25A549	IR-63-2	Volume control	
R15	5.1 Meg.	25A549	IR-63-2	Volume control	
R16	470K	25A549	IR-63-2	Volume control	
R17	100K	25A549	IR-63-2	Volume control	
R18	150	25A549	IR-63-2	Volume control	
R19	220K	25A549	IR-63-2	Volume control	
R20	150K	25A549	IR-63-2	Volume control	
R21	150K	25A549	IR-63-2	Volume control	
R22	47K	25A549	IR-63-2	Volume control	
R23	100K	25A549	IR-63-2	Volume control	
R24	100K	25A549	IR-63-2	Volume control	
R25	350K	25A549	IR-63-2	Volume control	
R26	220K	25A549	IR-63-2	Volume control	

**RESISTORS**

ITEM No.	RATING RESISTANCE (WATTS)	REPLACEMENT DATA			IDENTIFICATION CODES
		HALLICRAFT PART No.	IRV PART No.	IRV PART No.	
R3	4.7 Meg.	R22M475K	BTS-4.7 Meg.	V1-V1-Grn.	Crystal Oscillator Grid
R4	270K	R22M475K	BTS-4.7 Meg.	V1-V1-V1	Crystal Oscillator Voltage Drooping
R5	100K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Crystal Oscillator Plate Decoupl.
R6	100K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R7	150	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R8	150	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R9	150	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R10	220K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R11	220K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R12	100K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R13	350K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R14	2.2 Meg.	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R15	5.1 Meg.	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R16	470K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R17	100K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R18	150	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R19	220K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R20	150K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R21	150K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R22	47K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R23	100K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R24	100K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R25	350K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt
R26	220K	R22M475K	BTS-4.7 Meg.	Br-31k-V1	Ant. Coil Shunt

**PARTS LIST AND DESCRIPTIONS (Continued)**

**TRANSFORMER (POWER)**

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		HALLICRAFT PART No.	STANCO PART No.	CHICAGO PART No.	
T1	117VAC 60WAC 3VAC 4.7A	520141	P-6314 *	FH-200 *	
T2	115/230 VAC 25/50 Cycles	520131			

\* Add series resistor to reduce plate voltage.

**TRANSFORMER (OUTPUT)**

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		HALLICRAFT PART No.	STANCO PART No.	CHICAGO PART No.	
T2	6000 6000 4800 5.400 5.400 27K	558077			

**FILTER CHOKE**

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		HALLICRAFT PART No.	STANCO PART No.	CHICAGO PART No.	
L1	D.C. RESISTANCE 2900	548067	C-1709	R-8120†	† D=11 one NEW MEASUREMENT DOLE.

**R F COILS**

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES	
		HALLICRAFT PART No.	MEISSNER PART No.	CHICAGO PART No.		
L2	1st RF Coil	518925			Band 6	
L3	2nd RF Coil	518925			Band 5	
L4	3rd RF Coil	518925			Band 4	
L5	4th RF Coil	518925			Band 3	
L6	5th RF Coil	518925			Band 2	
L7	6th RF Coil	518925			Band 1	
L8	7th RF Coil	518925			Band 1	
L9	8th RF Coil	518925			Band 1	
L10	9th RF Coil	518925			Band 1	
L11	10th RF Coil	518925			Band 1	
L12	11th RF Coil	518925			Band 1	
L13	12th RF Coil	518925			Band 1	
L14	RF Screen	374117			Wound on 3350 rec.	
L15	2nd RF Coil	374117			Wound on 3350a ref.	
L16	3rd RF Coil	374117			Band 6	
L17	4th RF Coil	374117			Band 5	
L18	5th RF Coil	374117			Band 4	
L19	6th RF Coil	374117			Band 3	
L20	7th RF Coil	374117			Band 2	
L21	8th RF Coil	374117			Band 1	
L22	9th RF Coil	374117			Band 1	
L23	10th RF Coil	374117			Band 1	
L24	11th RF Coil	374117			Band 1	
L25	12th RF Coil	374117			Band 1	
L26	13th RF Coil	374117			Band 1	
L27	RF Plate	538008				
L28	RF Choke	538008				
L29	RF 1st IF	538008				
L30	RF 2nd IF	538008				
L31	RF 3rd IF	538008				
L32	RF 4th IF	538008				
L33	RF 5th IF	538008				
L34	RF 6th IF	538008				
L35	RF Plate	538008				

† Include AN P.T. winding  
‡ Secondary winding .52  
\* Includes PR P.T. winding

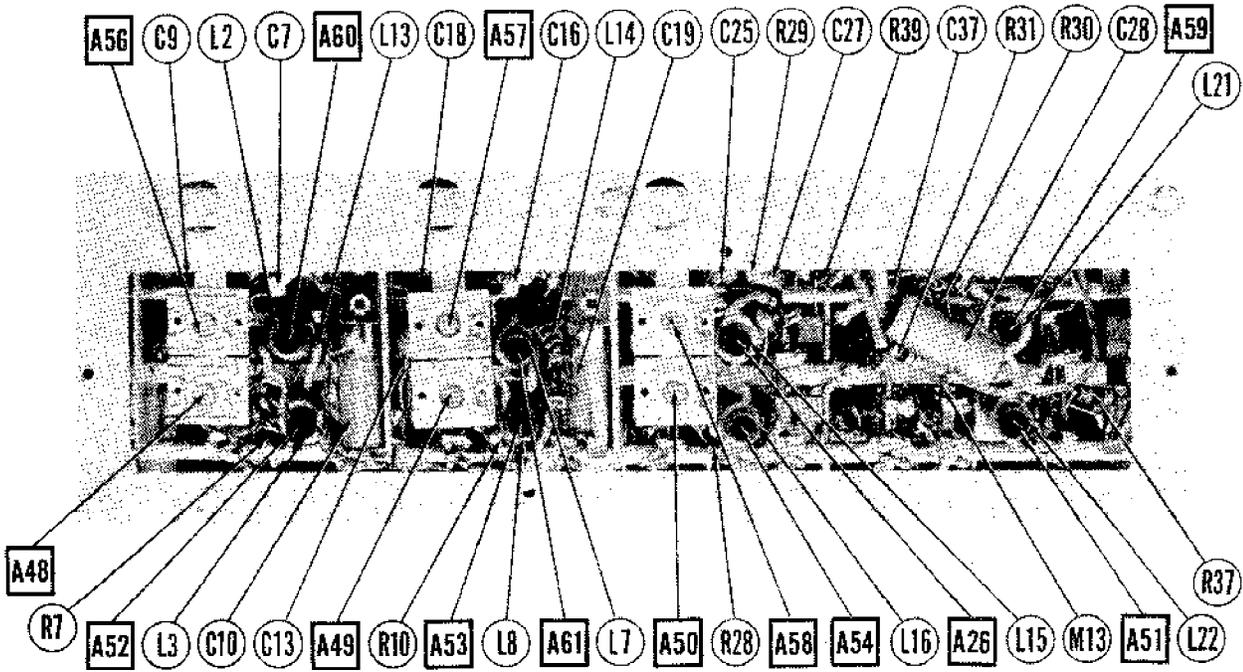
**PARTS LIST AND DESCRIPTIONS (Continued)**

**DIAL LIGHTS**

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		NOTES
				BEAD COLOR	HAL-LOWE CRYSTALS PART No.	
M1	Bayonet	6-V	C.25A	Blue		Type #64
M2						
M3						

**MISCELLANEOUS**

ITEM No.	PART NAME	HAL-LOWE PART No.	NOTES
M3	Switch	603029	Selector
M4	"	60A153	Standby
M5	"	60A158	XTAL. Call.
M6	"	60A158	Noise Limiter
M7	"	60C330	Resistor
M8	"	60A504	Selectivity
M9	"	60A246	Toro
M10	"	79A.33	454KC
M11	Crystal	18A1211	600KC
M12	Tuning Gang	48C304	M3, M17, A55
M13	Transformer	44A373	A9, A10, A11
M14	"	44B164	A22
M15	"	44A076	A27, A31
M16	"	44A347	A36, A56
M17	"	44B155	(A45, A56), (A49, A57), (A50, A58)
M18	Dial Scale	267011	
M19	Dial Pointer	67B835	
M20	Apex	15A368-B	Used Selector
M21	"	15A349	Resistor
M22	"	15A063	Selectivity
M23	"	15A062	Toro
M24	"	15A064	Selectivity
M25	"	15A047	TS/UM
M26	"	15A074-1	Point-to-point
M27	"	15A067	Volume



# ALIGNMENT INSTRUCTIONS

## IF ALIGNMENT

Pre-set the front panel controls as follows:

Receive/standby	Receive
Calib. Xtal	Off
Noise Limiter	Off
Volume	Near Maximum
Reception	AM
Selectivity	Normal/Sharp
Sensitivity	Near Maximum

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .1MFD	High side to Pin 1 (Grid) 7F8 (V4), Low side to chassis	455KC	Band 1	1000KC	Across voice coil	A1, A2, A3, A4, A5, A6	Adjust for maximum output.
2.	Set reception switch at "CW" and adjust A7 for 1000% note.						
3.	Set selectivity control to crystal/broad. Turn A4 slowly in one direction across the resonant setting obtained above and "rock" the signal generator observing the dip in the output meter reading. The correct setting of A4 is in center of the observed dip. Set the signal generator at the weaker of the two peaks obtained on either side of zero beat and adjust A8 (crystal phasing trimmer) for the null.						
4.	Set selectivity control to crystal/sharp and A9 near minimum capacity. Slowly increase its capacity while "rocking" the signal generator and adjust for maximum output. It may be necessary to reduce the signal generator input and the receiver sensitivity to prevent overloading. After peaking A9, turn it in until a 2 db. drop in output occurs.						
5.	Tune signal generator to the exact crystal frequency and note output meter reading. Set selectivity control to crystal/broad position and note the drop in output reading. Switch to crystal/medium position and with A10 pre-set near minimum capacity, slowly increase its capacity, while "rocking" the signal generator, until output meter reads half way between output readings obtained in the sharp crystal and broad crystal positions.						
6.	Set reception switch to "AM" and the selectivity control to crystal/sharp and ret signal generator to the exact crystal frequency. Switch to normal/sharp position and reset A1, A2, A3, A5, A6, and A11 for maximum output.						
7.	Set reception switch to "CW" and adjust A7 for zero beat.						

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
8. .1MFD	High side to Pin 1 (Grid) 7F8 (V4), Low side to chassis.	10.7MC (400% MOD)	Band 5	Mid Scale	Across voice coil	A12, A13, A14, A15, A16	Adjust for maximum output.
9.	"	"	"	"	"	A17, A18	Adjust for maximum output. Do not readjust A12 thru A16.
10.	Remove 400% modulation and set reception control to "CW". Adjust A19 for zero beat.						
11.	Add 400% modulation, turn reception control to "FM" and adjust A20 for maximum output.						
12.	Adjust A21 for the null or minimum indication on the output meter. Slowly tune signal generator thru 10.7MC and note the two maximum readings on the output meter. If the peaks are equal, the discriminator transformer is properly aligned. If not, it may be necessary to readjust A20 until reasonable balance is obtained.						

Connect signal generator high side thru RCA dummy to A-1 on antenna terminal strip and place a jumper across the "A-2" and "GRID" terminals. Use only enough signal from generator to give a 500 milliwatt output reading for best results. The RCA dummy antenna consists of a 200PFD capacitor in series with a 200UH RF choke which is shunted by a 400MFD capacitor in series with a 400Ω carbon resistor.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
13. RCA Dummy	High side to "A1" on Ant. terminal strip. Low side to chassis.	1500KC	Band 1	1500KC	Across voice coil	A22, A23, A24, A25	Adjust for maximum output.
14. RCA Dummy	"	600KC	"	600KC	"	A26	" " " "
15. RCA Dummy	"	4.5MC	Band 2	4.5MC	"	A27, A28, A29	" " " "
16. RCA Dummy	"	2.0MC	"	2.0MC	"	A30	" " " "
17. RCA Dummy	"	14.0MC	Band 3	14.0MC	"	A31, A32, A33, A34	" " " "
18. RCA Dummy	"	7.0MC	"	7.0MC	"	A35, A36, A37, A38	" " " "
19. RCA Dummy	"	28.0MC	Band 4	28.0MC	"	A39, A40, A41, A42	" " " "
20. RCA Dummy	"	18.0MC	"	18.0MC	"	A43, A44, A45, A46	" " " "
21. 500Ω carbon res.	High side thru 500Ω to "A1". Low side to chassis.	50.0MC	Band 5	50.0MC	"	A47, A48, A49, A50	" " " "
22. 500Ω carbon res.	"	30.0MC	"	30.0MC	"	A51, A52, A53, A54	" " " "
23. 500Ω carbon res.	"	105MC	Band 6	105MC	"	A55, A56, A57, A58	" " " "
24. 500Ω carbon res.	"	60MC	"	60MC	"	A59, A60, A61, A62	" " " "

**HALLICRAFTERS**  
**MODEL SX-62**  
**PAGE 7**

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	23VDC	0V	0V	6.5VAC	23VDC	-1.4VDC	0V	
2	6AQ5	0V	1.6VDC	0V	6.4VAC	235VDC	165VDC	1.6VDC	
3	6AG5	-1.1VDC	1.6VDC	0V	6.5VAC	240VDC	175VDC	1.6VDC	
4	7F2	-2VDC	0V	83VDC	1VDC	0V	135VDC	6.5VAC	2-2.4VDC
5	6SK7	0V	6.8VAC	0V	0V	8.8VDC	160VDC	0V	240VDC
6	6SQ7	0V	6.5VAC	2.8VDC	0V	2.8VDC	140VDC	0V	240VDC
7	7H2	0V	225VDC	200VDC	0V	0V	0V	7.6VDC	6.2VAC
8	7H7	0V	50VDC	50VDC	0V	0V	-1.5VDC	0V	6.5VAC
9	6BE	0V	0V	-5.7VDC	1.8VDC	-1.8VDC	0V	6.3VAC	0V
10	7A4	0V	160VDC	0V	0V	0V	16.5VDC	24VDC	6.5VAC
11	6HE	0V	0V	-1.1VDC	-1.1VDC	0V	-1.2VDC	4.3VAC	0V
12	6SL7GT	0V	65VDC	2VDC	0V	96VDC	18VDC	6.3VAC	0V
13	6V6GT	0V	0V	270VDC	240VDC	0V	0V	6.3VAC	14.5VDC
14	6V6GT	0V	0V	270VDC	240VDC	0V	0V	6.3VAC	14.5VDC
15	6DS/VR-100	1.5VDC	0V	150VDC	0V	155VDC	0V	1.5VDC	0V
16	6U4G	0V	200VDC	0V	270VAC	0V	270VAC	250VDC	240VDC

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

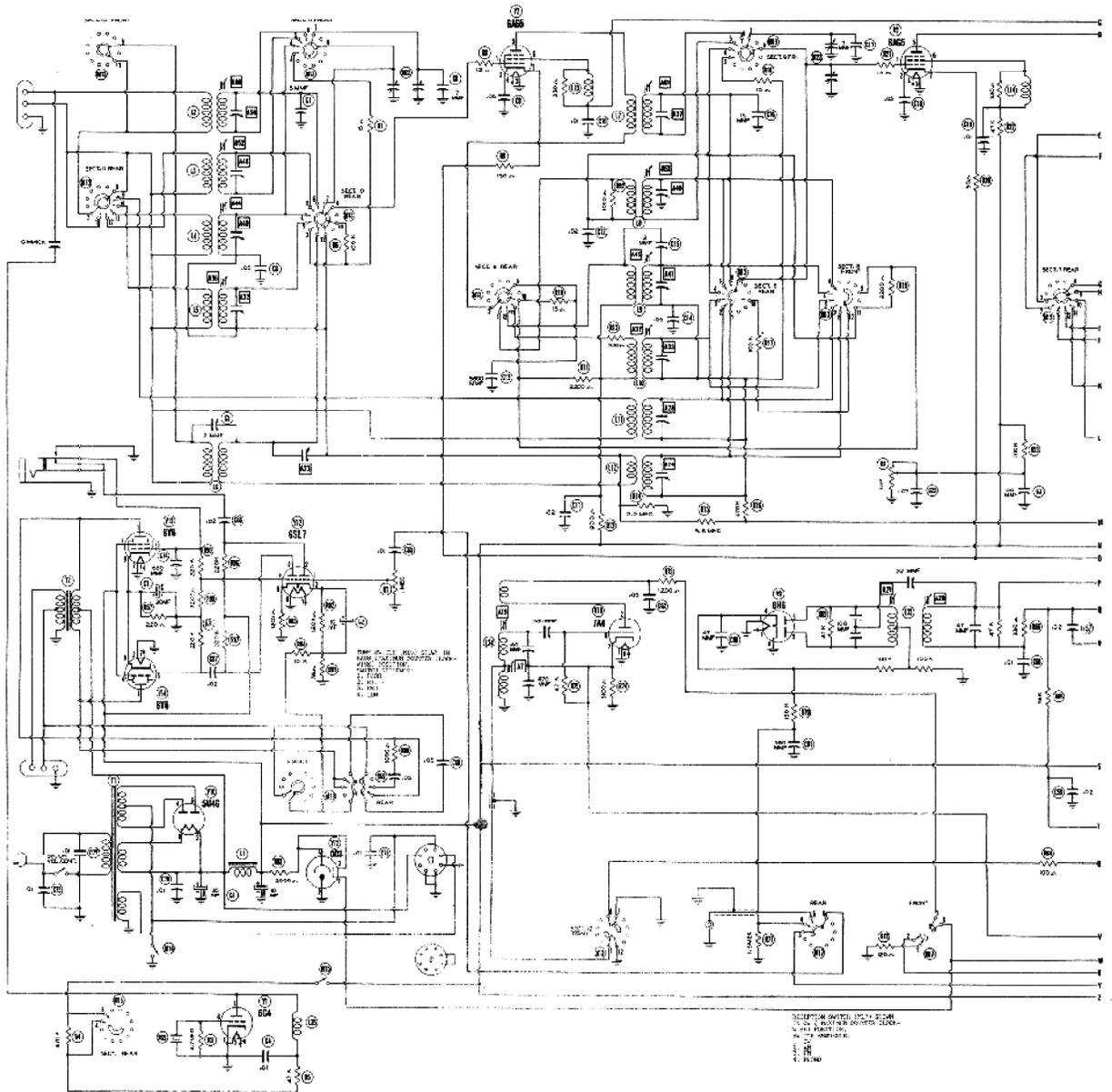
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	*500KΩ	0Ω	0Ω	2Ω	*500KΩ	4.7 Meg.	0Ω	
2	6AQ5	2. Meg.	Inf.	0Ω	2Ω	*3.5KΩ	*3.5KΩ	170Ω	
3	6AG5	1.8 Meg.	1Ω	0Ω	2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7F2	2.2 Meg.	0Ω	*70KΩ	100Ω	0Ω	*90Ω	2Ω	10KΩ
5	6SK7	0Ω	2Ω	0Ω	5.2 Meg.	27Ω	*60KΩ	0Ω	*1.5KΩ
6	6SQ7	0Ω	2Ω	35Ω	2.5 Meg.	55Ω	60KΩ	0Ω	*1.5KΩ
7	7H2	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.8KΩ	2Ω
8	7H7	0Ω	*50 KΩ	*50KΩ	0Ω	0Ω	240KΩ	0Ω	2Ω
9	6BE	0Ω	0Ω	100KΩ	200KΩ	180KΩ	Inf.	2Ω	0Ω
10	7A4	0V	*100KΩ	10Ω	Inf.	Inf.	50KΩ	6KΩ	2Ω
11	6BE	0Ω	0Ω	2.2Meg.	1.7 Meg.	Inf.	150Ω	2.3Ω	Inf.
12	6SL7GT	1 Meg.	*220KΩ	1.5KΩ	8.2KΩ	22KΩ	1.2KΩ	2Ω	0Ω
13	6V6GT	0Ω	0Ω	*200Ω	*250Ω	220KΩ	10KΩ	2Ω	220Ω
14	6V6GT	0Ω	0Ω	*200Ω	*250Ω	220KΩ	50Ω	2Ω	220Ω
15	6DS/VR-100	*2.2KΩ	0Ω	*2.2KΩ	220Ω	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	6U4G	Inf.	50KΩ	Inf.	60Ω	Inf.	30Ω	45KΩ	60KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

\* Measured from pin 8 of V16 (6U4G)

† Taken in band 2 position.

- DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.



A. PROJECT: FACT STANDARD NOTATION (CIRCUIT)  
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VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	23VDC	0V	0V	8.5VAC	23VDC	-1.4VDC	0V	
2	6AQ5	0V	1.6VDC	0V	6.4VAC	235VDC	165VDC	1.6VDC	
3	6AG5	-1.1VDC	1.6VDC	0V	6.5VAC	240VDC	175VDC	1.6VDC	
4	7F2	-2VDC	0V	83VDC	1VDC	0V	135VDC	6.5VAC	3-2.4VDC
5	6SK7	0V	6.8VAC	0V	0V	8.8VDC	160VDC	0V	240VDC
6	6SQ7	0V	6.5VAC	2.8VDC	0V	2.8VDC	140VDC	0V	240VDC
7	7H2	0V	225VDC	200VDC	0V	0V	0V	7.6VDC	6.2VAC
8	7H7	0V	50VDC	50VDC	0V	0V	-1.5VDC	0V	6.5VAC
9	6BE	0V	0V	-5.7VDC	1.8VDC	-1.8VDC	0V	6.3VAC	0V
10	7A4	0V	160VDC	0V	0V	0V	16.5VDC	24VDC	6.5VAC
11	6HE	0V	0V	-1.1VDC	-1.1VDC	0V	-1.2VDC	4.5VAC	0V
12	6SL7GT	0V	65VDC	2VDC	0V	96VDC	18VDC	6.8VAC	0V
13	6V6GT	0V	0V	270VDC	240VDC	0V	0V	6.8VAC	14.5VDC
14	6V6GT	0V	0V	270VDC	240VDC	0V	0V	6.5VAC	14.5VDC
15	6DS/VR-100	1.5VDC	0V	150VDC	0V	155VDC	0V	1.5VDC	0V
16	6U4G	0V	200VDC	0V	270VAC	0V	270VAC	250VDC	200VDC

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	*500KΩ	0Ω	0Ω	2Ω	*500KΩ	4.7 Meg.	0Ω	
2	6AQ5	2. Meg.	Inf.	0Ω	2Ω	*3.5KΩ	*3.5KΩ	170Ω	
3	6AG5	1.8 Meg.	1Ω	0Ω	2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7F2	2.2 Meg.	0Ω	*20KΩ	100Ω	0Ω	*9Ω	2Ω	10KΩ
5	6SK7	0Ω	2Ω	0Ω	5.2 Meg.	27Ω	*60Ω	0Ω	*1.5KΩ
6	6SQ7	0Ω	2Ω	35Ω	2.5 Meg.	55Ω	60KΩ	0Ω	*1.5KΩ
7	7H2	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.8KΩ	2Ω
8	7H7	0Ω	*50 KΩ	*50KΩ	0Ω	0Ω	240KΩ	0Ω	2Ω
9	6BE	0Ω	0Ω	100KΩ	200KΩ	180KΩ	Inf.	2Ω	0Ω
10	7A4	0V	*100KΩ	10Ω	Inf.	Inf.	50Ω	6KΩ	2Ω
11	6HE	0Ω	0Ω	2.2Meg.	1.7 Meg.	Inf.	150Ω	2.3Ω	Inf.
12	6SL7GT	1 Meg.	*220KΩ	1.5KΩ	8.2KΩ	220KΩ	1.2KΩ	2Ω	0Ω
13	6V6GT	0Ω	0Ω	*200Ω	*250Ω	220KΩ	10KΩ	2Ω	220Ω
14	6V6GT	0Ω	0Ω	*200Ω	*250Ω	220KΩ	5Ω	2Ω	220Ω
15	6DS/VR-100	*2.2KΩ	0Ω	*2.2KΩ	220Ω	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	6U4G	Inf.	50KΩ	Inf.	6Ω	Inf.	3Ω	45KΩ	60KΩ

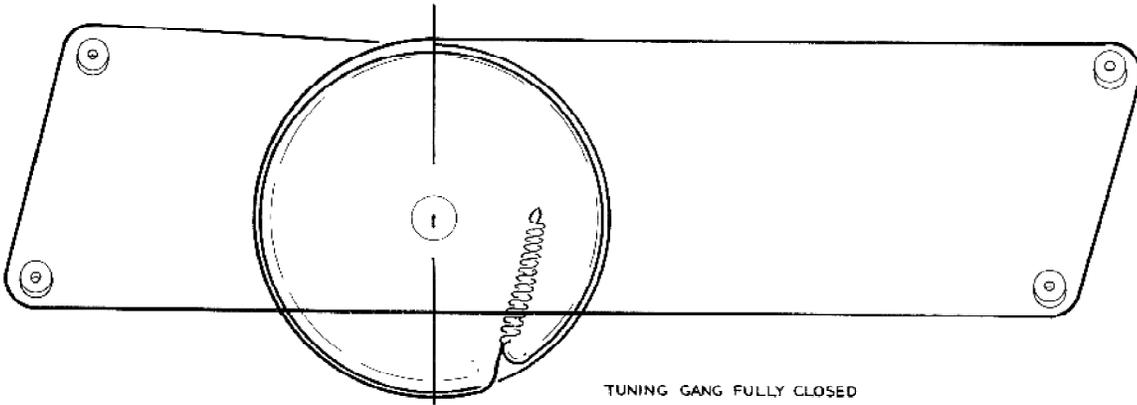
‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

\* Measured from pin 8 of V16 (6U4G)

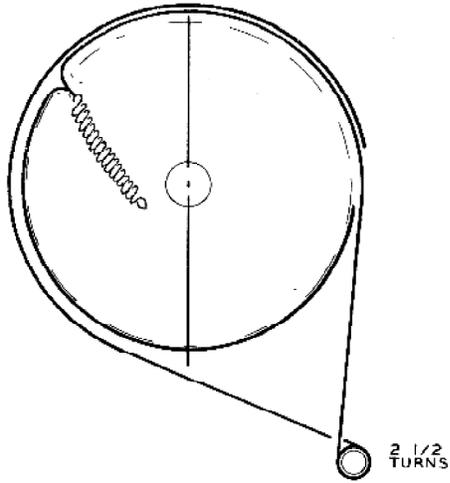
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- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.





TUNING GANG FULLY CLOSED



$2 \frac{1}{2}$   
TURNS

DIAL CORD DRIVE