

K4XL's BAMA

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communications

**OPERATING and SERVICE
INSTRUCTIONS**



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

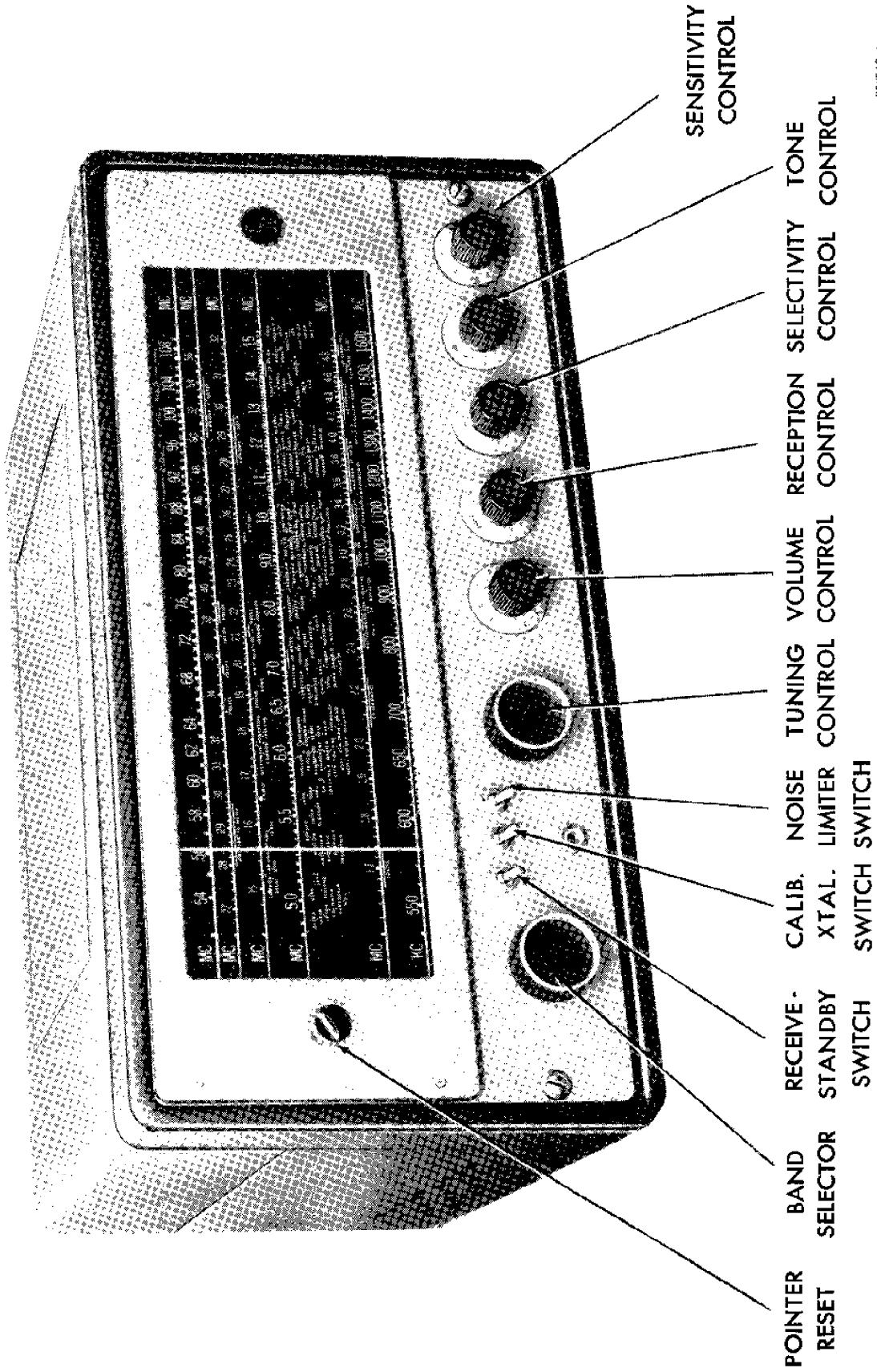
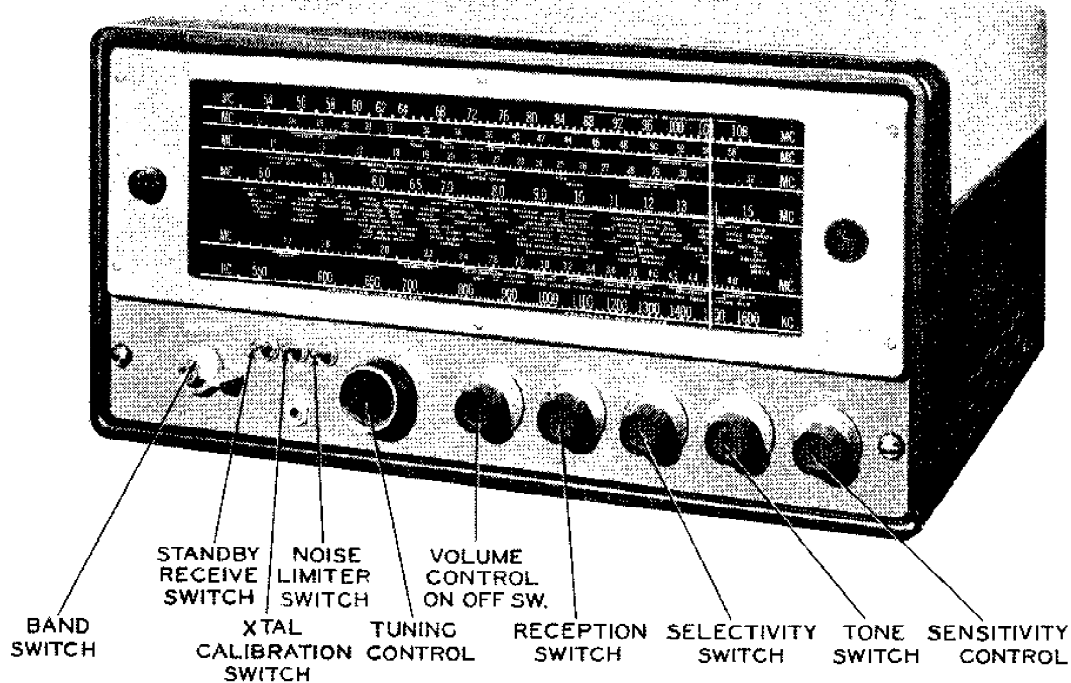


Fig. 1. Radio Receiver Model SX-62/62U



HALICRAFTERS MODEL SX-62

TRADE NAME Hallicrafters, Model SX-62

MANUFACTURER The Hallicrafters Co., 5th & Kostner Avenues, Chicago 24, Illinois

TYPE SET AC Operated Multi-Band AM-FM Superheterodyne Receiver

TUBES(SIXTEEN) Types 6CA XTAL Calib. Osc., 6AC5 1st RF Amp., 6AC5 2nd RF Amp., 7F8 Converter, 6SK7 1st IF Amp., 6BE7 2nd IF Amp., 7Z7 3rd IF Amp., 7H7 4th FM IF Amp.-AM DET-AVG, 6H6 Discriminator, 7A4 CW Beat Osc. 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.

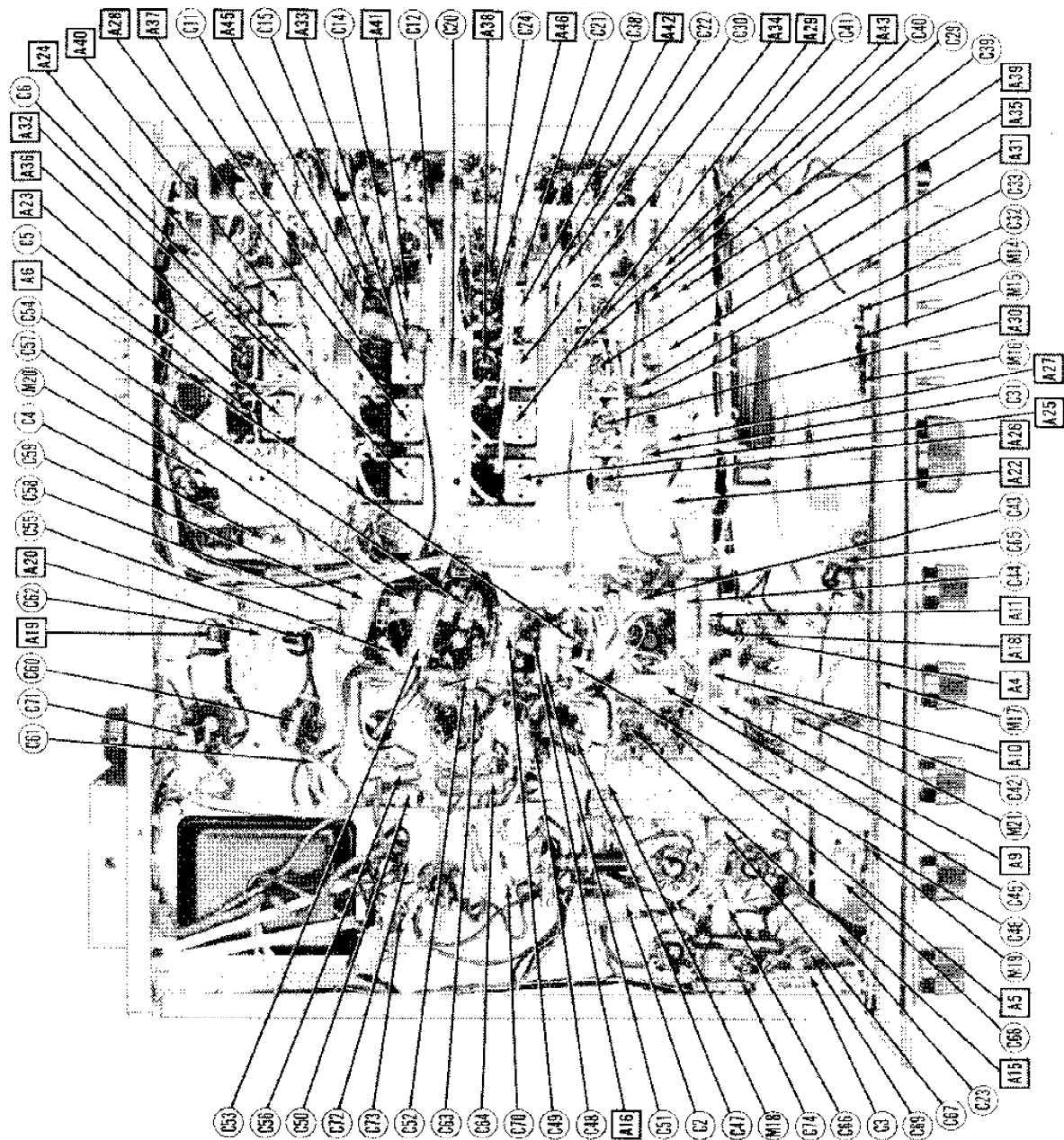
**HALLICRAFTERS
MODEL SX-62**

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

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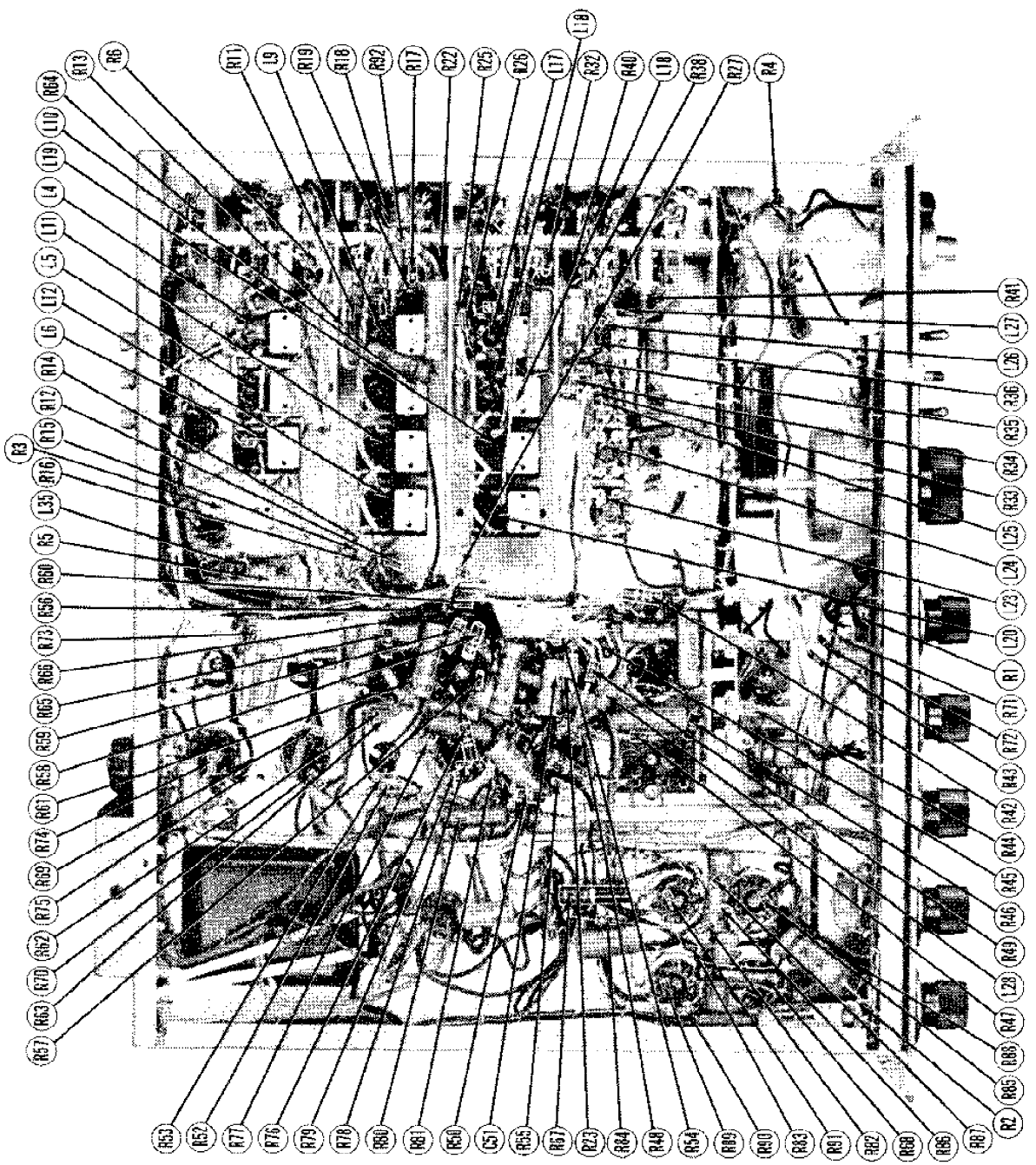
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DATE 5/49 499-12 SET #61 FOLDER 12



HALLCRAFTERS
MODEL SX-62

PAGE 3



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	REPLACEMENT DATA		RATING	REPLACEMENT DATA		IDENTIFICATION CODES
	HALLICRAFT PART No.	STANDARD REPLACEMENT		HALLICRAFT PART No.	STANDARD REPLACEMENT	
H27	604	604	100K	R20A1223	Br.-Red-Red	2nd IF Decoupling
H28	605	605	100K	R20A1224	Br.-Red-Red	2nd IF Decoupling
H29	606	606	100K	R20A1225	Br.-Red-Red	2nd IF Decoupling
H30	607	607	100K	R20A1226	Br.-Red-Red	2nd IF Decoupling
H31	608	608	100K	R20A1227	Br.-Red-Red	2nd IF Decoupling
H32	609	609	100K	R20A1228	Br.-Red-Red	2nd IF Decoupling
H33	610	610	100K	R20A1229	Br.-Red-Red	2nd IF Decoupling
H34	611	611	100K	R20A1230	Br.-Red-Red	2nd IF Decoupling
H35	612	612	100K	R20A1231	Br.-Red-Red	2nd IF Decoupling
H36	613	613	100K	R20A1232	Br.-Red-Red	2nd IF Decoupling
H37	614	614	100K	R20A1233	Br.-Red-Red	2nd IF Decoupling
H38	615	615	100K	R20A1234	Br.-Red-Red	2nd IF Decoupling
H39	616	616	100K	R20A1235	Br.-Red-Red	2nd IF Decoupling
H40	617	617	100K	R20A1236	Br.-Red-Red	2nd IF Decoupling
H41	618	618	100K	R20A1237	Br.-Red-Red	2nd IF Decoupling
H42	619	619	100K	R20A1238	Br.-Red-Red	2nd IF Decoupling
H43	620	620	100K	R20A1239	Br.-Red-Red	2nd IF Decoupling
H44	621	621	100K	R20A1240	Br.-Red-Red	2nd IF Decoupling
H45	622	622	100K	R20A1241	Br.-Red-Red	2nd IF Decoupling
H46	623	623	100K	R20A1242	Br.-Red-Red	2nd IF Decoupling
H47	624	624	100K	R20A1243	Br.-Red-Red	2nd IF Decoupling
H48	625	625	100K	R20A1244	Br.-Red-Red	2nd IF Decoupling
H49	626	626	100K	R20A1245	Br.-Red-Red	2nd IF Decoupling
H50	627	627	100K	R20A1246	Br.-Red-Red	2nd IF Decoupling
H51	628	628	100K	R20A1247	Br.-Red-Red	2nd IF Decoupling
H52	629	629	100K	R20A1248	Br.-Red-Red	2nd IF Decoupling
H53	630	630	100K	R20A1249	Br.-Red-Red	2nd IF Decoupling
H54	631	631	100K	R20A1250	Br.-Red-Red	2nd IF Decoupling
H55	632	632	100K	R20A1251	Br.-Red-Red	2nd IF Decoupling
H56	633	633	100K	R20A1252	Br.-Red-Red	2nd IF Decoupling
H57	634	634	100K	R20A1253	Br.-Red-Red	2nd IF Decoupling
H58	635	635	100K	R20A1254	Br.-Red-Red	2nd IF Decoupling
H59	636	636	100K	R20A1255	Br.-Red-Red	2nd IF Decoupling
H60	637	637	100K	R20A1256	Br.-Red-Red	2nd IF Decoupling
H61	638	638	100K	R20A1257	Br.-Red-Red	2nd IF Decoupling
H62	639	639	100K	R20A1258	Br.-Red-Red	2nd IF Decoupling
H63	640	640	100K	R20A1259	Br.-Red-Red	2nd IF Decoupling
H64	641	641	100K	R20A1260	Br.-Red-Red	2nd IF Decoupling
H65	642	642	100K	R20A1261	Br.-Red-Red	2nd IF Decoupling
H66	643	643	100K	R20A1262	Br.-Red-Red	2nd IF Decoupling
H67	644	644	100K	R20A1263	Br.-Red-Red	2nd IF Decoupling
H68	645	645	100K	R20A1264	Br.-Red-Red	2nd IF Decoupling
H69	646	646	100K	R20A1265	Br.-Red-Red	2nd IF Decoupling
H70	647	647	100K	R20A1266	Br.-Red-Red	2nd IF Decoupling
H71	648	648	100K	R20A1267	Br.-Red-Red	2nd IF Decoupling
H72	649	649	100K	R20A1268	Br.-Red-Red	2nd IF Decoupling
H73	650	650	100K	R20A1269	Br.-Red-Red	2nd IF Decoupling
H74	651	651	100K	R20A1270	Br.-Red-Red	2nd IF Decoupling
H75	652	652	100K	R20A1271	Br.-Red-Red	2nd IF Decoupling
H76	653	653	100K	R20A1272	Br.-Red-Red	2nd IF Decoupling
H77	654	654	100K	R20A1273	Br.-Red-Red	2nd IF Decoupling
H78	655	655	100K	R20A1274	Br.-Red-Red	2nd IF Decoupling
H79	656	656	100K	R20A1275	Br.-Red-Red	2nd IF Decoupling
H80	657	657	100K	R20A1276	Br.-Red-Red	2nd IF Decoupling
H81	658	658	100K	R20A1277	Br.-Red-Red	2nd IF Decoupling
H82	659	659	100K	R20A1278	Br.-Red-Red	2nd IF Decoupling
H83	660	660	100K	R20A1279	Br.-Red-Red	2nd IF Decoupling
H84	661	661	100K	R20A1280	Br.-Red-Red	2nd IF Decoupling
H85	662	662	100K	R20A1281	Br.-Red-Red	2nd IF Decoupling
H86	663	663	100K	R20A1282	Br.-Red-Red	2nd IF Decoupling
H87	664	664	100K	R20A1283	Br.-Red-Red	2nd IF Decoupling
H88	665	665	100K	R20A1284	Br.-Red-Red	2nd IF Decoupling
H89	666	666	100K	R20A1285	Br.-Red-Red	2nd IF Decoupling
H90	667	667	100K	R20A1286	Br.-Red-Red	2nd IF Decoupling
H91	668	668	100K	R20A1287	Br.-Red-Red	2nd IF Decoupling
H92	669	669	100K	R20A1288	Br.-Red-Red	2nd IF Decoupling
H93	670	670	100K	R20A1289	Br.-Red-Red	2nd IF Decoupling
H94	671	671	100K	R20A1290	Br.-Red-Red	2nd IF Decoupling
H95	672	672	100K	R20A1291	Br.-Red-Red	2nd IF Decoupling
H96	673	673	100K	R20A1292	Br.-Red-Red	2nd IF Decoupling
H97	674	674	100K	R20A1293	Br.-Red-Red	2nd IF Decoupling
H98	675	675	100K	R20A1294	Br.-Red-Red	2nd IF Decoupling
H99	676	676	100K	R20A1295	Br.-Red-Red	2nd IF Decoupling
H100	677	677	100K	R20A1296	Br.-Red-Red	2nd IF Decoupling

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

Note 1: Not used in all models.

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		NOTES
		HALLICRAFT PART No.	STANDARD REPLACEMENT	
V1	6X4	604	604	
V2	6X4	604	604	
V3	6X4	604	604	
V4	6X4	604	604	
V5	6X4	604	604	
V6	6X4	604	604	
V7	6X4	604	604	
V8	6X4	604	604	
V9	6X4	604	604	
V10	6X4	604	604	
V11	6X4	604	604	
V12	6X4	604	604	
V13	6X4	604	604	
V14	6X4	604	604	
V15	6X4	604	604	
V16	6X4	604	604	
V17	6X4	604	604	
V18	6X4	604	604	
V19	6X4	604	604	
V20	6X4	604	604	
V21	6X4	604	604	
V22	6X4	604	604	
V23	6X4	604	604	
V24	6X4	604	604	
V25	6X4	604	604	
V26	6X4	604	604	
V27	6X4	604	604	
V28	6X4	604	604	
V29	6X4	604	604	
V30	6X4	604	604	
V31	6X4	604	604	
V32	6X4	604	604	
V33	6X4	604	604	
V34	6X4	604	604	
V35	6X4	604	604	
V36	6X4	604	604	
V37	6X4	604	604	
V38	6X4	604	604	
V39	6X4	604	604	
V40	6X4	604	604	
V41	6X4	604	604	
V42	6X4	604	604	
V43	6X4	604	604	
V44	6X4	604	604	
V45	6X4	604	604	
V46	6X4	604	604	
V47	6X4	604	604	
V48	6X4	604	604	
V49	6X4	604	604	
V50	6X4	604	604	
V51	6X4	604	604	
V52	6X4	604	604	
V53	6X4	604	604	
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V66	6X4	604	604	
V67	6X4	604	604	
V68	6X4	604	604	
V69	6X4	604	604	
V70	6X4	604	604	
V71	6X4	604	604	
V72	6X4	604	604	
V73	6X4	604	604	
V74	6X4	604	604	
V75	6X4	604	604	
V76	6X4	604	604	
V77	6X4	604	604	
V78	6X4	604	604	
V79	6X4	604	604	
V80	6X4	604	604	
V81	6X4	604	604	
V82	6X4	604	604	
V83	6X4	604	604	
V84	6X4	604	604	
V85	6X4	604	604	
V86	6X4	604	604	
V87	6X4	604	604	
V88	6X4	604	604	
V89	6X4	604	604	
V90	6X4	604	604	
V91	6X4	604	604	
V92	6X4	604	604	
V93	6X4	604	604	
V94	6X4	604	604	
V95	6X4	604	604	
V96	6X4	604	604	
V97	6X4	604	604	
V98	6X4	604	604	
V99	6X4	604	604	
V100	6X4	604	604	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA		IDENTIFICATION CODES	
		HALLICRAFT PART No.	STANDARD REPLACEMENT	SOLAR PART No.	INSTALLATION NOTES
C1A	30	450	4F4443A	UY-813	■ Filter
C1B	20	450			■ A Filter
C1C	20	450			■ B Filter
C2	10	25	F31024	W-10-25	At Cath. Bypass
C2	10	25	F31024	W-10-25	At Cath. Bypass
C2	100	25	BRH51	8F53	UHC-102 Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass
C4	10	500	F31024	W-10-25	At Cath. Bypass

PARTS LIST AND DESCRIPTIONS (Continued)

ITEM No.	RATING CAP. / VOLT	REPLACEMENT DATA			IDENTIFICATION CODES AND INSTALLATION NOTES
		HALL/CRAFTERS PART No.	AEROVOX PART No.	ERIC PART No.	
C44	.02	46A1203	688-02	ST-6-02	1st IF Screen Bypass
C45	.05	46A1203	688-03	ST-6-03	2nd IF Plate Decoupling
C46	.01	46A1203	688-01	ST-6-01	AVC Filter
C47	.05	46A1203	688-05	ST-6-05	2nd IF Cath. Bypass
C48	.01	46A1203	688-01	ST-6-01	2nd IF Screen Bypass
C49	.01	46A1203	688-01	ST-6-01	2nd IF Plate Decoupling
C50	.01	46A1203	688-01	ST-6-01	AVC Filter
C51	.01	46A1203	688-01	ST-6-01	2nd IF Cath. Bypass
C52	.01	46A1203	688-01	ST-6-01	2nd IF Screen Bypass
C53	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C54	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C55	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C56	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C57	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C58	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C59	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C60	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C61	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C62	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C63	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C64	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C65	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C66	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C67	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C68	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C69	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C70	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C71	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling
C72	.02	46A1203	688-02	ST-6-02	2nd IF Cath. Bypass
C73	.02	46A1203	688-02	ST-6-02	2nd IF Screen Bypass
C74	.02	46A1203	688-02	ST-6-02	2nd IF Plate Decoupling

Two 10KΩ sections connected in parallel.
Note: Not used in all models.

CONTROLS

ITEM No.	RATING RESIST. / WATTS	REPLACEMENT DATA			INSTALLATION NOTES
		HALL/CRAFTERS PART No.	IRC PART No.	CLAROSTAT PART No.	
R1	1 Meg. 1/2	25A49	M-63-2		Volume control
R2	10KΩ	25A44	M-27-S		Attach to R1A Per Instructions

RESISTORS

ITEM No.	RATING RESISTANCE / WATTS	REPLACEMENT DATA			IDENTIFICATION CODES
		HALL/CRAFTERS PART No.	IRC PART No.	ERIC PART No.	
R3	4.7 Meg.	R20A1275K	HTS-4.7 Meg.	V1-V1-Grn.	Crystal Oscillator Grid
R4	47KΩ	R20A1275K	HTS-47K	V1-V1-Grn.	Crystal Oscillator Voltage Drooping
R5	27KΩ	R20A1275K	HTS-27K	Red-V1-Grn.	Crystal Oscillator Plate Decoupling
R6	100KΩ	R20A1275K	HTS-100K	Red-V1-Grn.	Ant. Coil Shunt
R7	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	Parasitic Suppressor
R8	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Cathode
R9	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	RF Coil Shunt
R10	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R11	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R12	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R13	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R14	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R15	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R16	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R17	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R18	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R19	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R20	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R21	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R22	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R23	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R24	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R25	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling
R26	15KΩ	R20A1275K	HTS-15K	Red-V1-Grn.	1st RF Decoupling

PARTS LIST AND DESCRIPTIONS (Continued)
TRANSFORMER (POWER)

ITEM No.	RATING SEC. 1 / SEC. 2	REPLACEMENT DATA			MERIT PART No.
		HALL/CRAFTERS PART No.	STANCO PART No.	CHICAGO PART No.	
T1A	117VAC 50VA 3A	520141	P-6314 *	PH-200 *	
T1B	117VAC 50VA 3A	520141	P-6314 *	PH-200 *	
T2	115/250 VAC 25/40 VA	520131			

* Add series resistor to reduce plate voltage.

TRANSFORMER (OUTPUT)

ITEM No.	RATING DC RES. / SEC. 1	REPLACEMENT DATA			INSTALLATION NOTES
		HALL/CRAFTERS PART No.	STANCO PART No.	CHICAGO PART No.	
T2	600Ω 1000Ω 180Ω 270Ω 500Ω	558077			

FILTER CHOKE

ITEM No.	RATING DC RES. / SEC. 1	REPLACEMENT DATA			INSTALLATION NOTES
		HALL/CRAFTERS PART No.	STANCO PART No.	CHICAGO PART No.	
L1	1.00Ω 280Ω 17Ω	56D067	0-1709	R-8120#	# D-111 one new mounting hole.

R F COILS

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		HALL/CRAFTERS PART No.	MEISSNER PART No.	CHICAGO PART No.	
L2	Ant. Coil	61B228			Band 6
L3	Ant. Coil	61B228			Band 6
L4	Ant. Coil	61B228			Band 6
L5	Ant. Coil	61B228			Band 6
L6	1st RF Coil	61B228			Band 6
L7	1st RF Coil	61B228			Band 6
L8	1st RF Coil	61B228			Band 6
L9	1st RF Coil	61B228			Band 6
L10	1st RF Coil	61B228			Band 6
L11	1st RF Coil	61B228			Band 6
L12	1st RF Coil	61B228			Band 6
L13	1st RF Coil	61B228			Band 6
L14	1st RF Coil	61B228			Band 6
L15	1st RF Coil	61B228			Band 6
L16	1st RF Coil	61B228			Band 6
L17	1st RF Coil	61B228			Band 6
L18	1st RF Coil	61B228			Band 6
L19	1st RF Coil	61B228			Band 6
L20	1st RF Coil	61B228			Band 6
L21	1st RF Coil	61B228			Band 6
L22	1st RF Coil	61B228			Band 6
L23	1st RF Coil	61B228			Band 6
L24	1st RF Coil	61B228			Band 6
L25	1st RF Coil	61B228			Band 6
L26	1st RF Coil	61B228			Band 6
L27	1st RF Coil	61B228			Band 6
L28	1st RF Coil	61B228			Band 6
L29	1st RF Coil	61B228			Band 6
L30	1st RF Coil	61B228			Band 6
L31	1st RF Coil	61B228			Band 6
L32	1st RF Coil	61B228			Band 6
L33	1st RF Coil	61B228			Band 6
L34	1st RF Coil	61B228			Band 6
L35	1st RF Coil	61B228			Band 6

HALL/CRAFTERS
MODEL SX-62

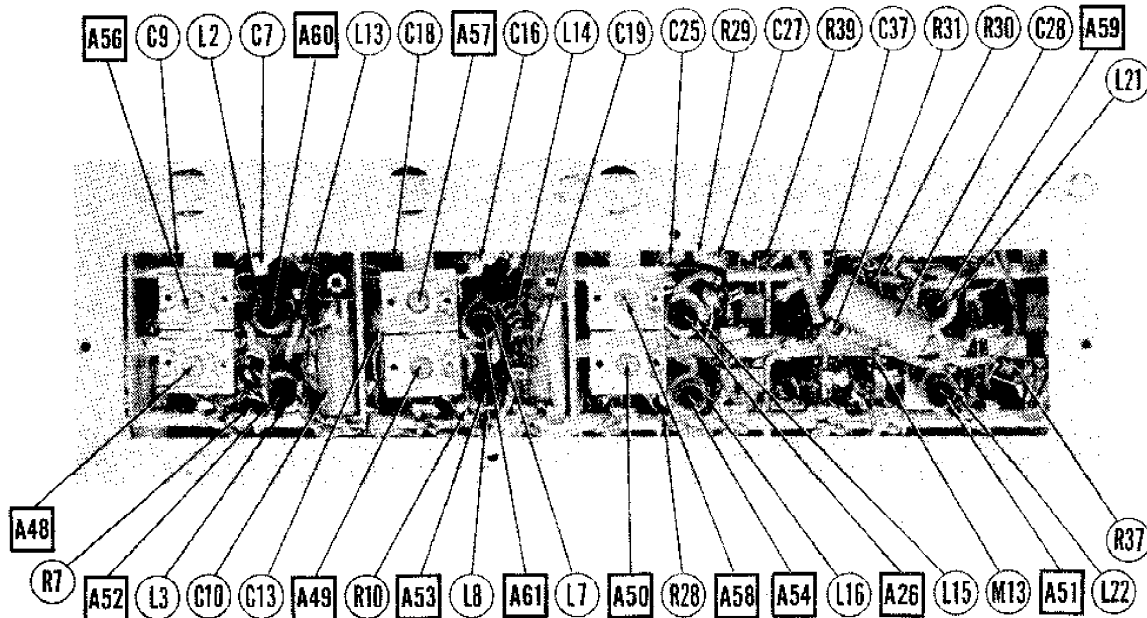
PARTS LIST AND DESCRIPTIONS (Continued)

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		NOTES
				BEAD COLOR	HAL-1 CHARTERS PART No.	
M1	Bayonet	5-BV	0.85A	Blue		Type #44
M12						

MISCELLANEOUS

ITEM No.	PART NAME	HAL-1 CHARTERS PART No.	NOTES
M3	Switch	603029	Selection
M4	"	604139	Shanty
M5	"	604138	MXL. Call.
M6	"	604138	Noise Filter
M7	"	603030	Receiver
M8	"	603030	Rectifier
M9	"	603030	Pericentricity
M10	"	603030	Pericentricity
M11	"	603030	Pericentricity
M12	"	603030	Pericentricity
M13	Crystal	131121	40, M7, A35
M14	Transformer	443073	40, M7, A35
M15	"	443164	40, M7, A35
M16	"	443164	40, M7, A35
M17	"	443164	40, M7, A35
M18	"	443164	40, M7, A35
M19	"	443164	40, M7, A35
M20	"	443164	40, M7, A35
M21	"	443164	40, M7, A35
M22	"	443164	40, M7, A35
M23	"	443164	40, M7, A35
M24	"	443164	40, M7, A35
M25	"	443164	40, M7, A35
M26	"	443164	40, M7, A35
M27	"	443164	40, M7, A35
M28	"	443164	40, M7, A35
M29	"	443164	40, M7, A35
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M61	"	443164	40, M7, A35
M62	"	443164	40, M7, A35
M63	"	443164	40, M7, A35
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M66	"	443164	40, M7, A35
M67	"	443164	40, M7, A35
M68	"	443164	40, M7, A35
M69	"	443164	40, M7, A35
M70	"	443164	40, M7, A35
M71	"	443164	40, M7, A35
M72	"	443164	40, M7, A35
M73	"	443164	40, M7, A35
M74	"	443164	40, M7, A35
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M83	"	443164	40, M7, A35
M84	"	443164	40, M7, A35
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M86	"	443164	40, M7, A35
M87	"	443164	40, M7, A35
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M89	"	443164	40, M7, A35
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M92	"	443164	40, M7, A35
M93	"	443164	40, M7, A35
M94	"	443164	40, M7, A35
M95	"	443164	40, M7, A35
M96	"	443164	40, M7, A35
M97	"	443164	40, M7, A35
M98	"	443164	40, M7, A35
M99	"	443164	40, M7, A35
M100	"	443164	40, M7, A35



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 1000KHz note.							
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 set 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 (AM) (400% MOD)	Band 3	Med Scale	Across voice coil	A12, A13, A14, A15, A16	Adjust for maximum output.
9. .1MFD	"	"	"	"	"	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 "AM" 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 "GND" terminals. Use only enough signal from generator to give a 500 milliwatt output reading for best results. The RCA dummy antenna consists of a 200MMF capacitor in series with a 200H. RF choke which is shunted by a 400MΩ 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, A26	Adjust for maximum output.
14. RCA Dummy	"	600KC	"	600KC	"	"	"
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. 300Ω carbon res.	High side thru 300Ω to "A1". Low side to chassis.	50.0MC	Band 5	50.0MC	"	A47, A48, A49, A50	"
22. 300Ω carbon res.	"	30.0MC	"	30.0MC	"	A51, A52, A53, A54	"
23. 300Ω carbon res.	"	105MC	Band 6	105MC	"	A55, A56, A57, A58	"
24. 300Ω carbon res.	"	60MC	"	60MC	"	A59, A60, A61, A62	"

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	604	83VDC	0V	0V	6.8VAC	83VDC	-1.4VDC	0V	
2	6AG5	0V	1.6VDC	0V	6.8VAC	835VDC	165VDC	1.6VDC	
3	6AG5	-1VDC	1.6VDC	0V	6.8VAC	840VDC	175VDC	1.6VDC	
4	7H7	-2VDC	0V	83VDC	1VDC	0V	125VDC	6.8VAC	2-2.4VDC
5	6SK7	0V	6.8VAC	0V	0V	8.2VDC	100VDC	0V	240VDC
6	6SQ7	0V	6.8VAC	2.8VDC	0V	2.8VDC	140VDC	0V	240VDC
7	7H7	0V	825VDC	800VDC	0V	0V	0V	7.6VDC	6.8VAC
8	7H7	0V	50VDC	50VDC	0V	0V	-5VDC	0V	6.8VAC
9	6BE	0V	0V	-5.7VDC	1.8VDC	-1.8VDC	0V	6.8VAC	0V
10	7A4	0V	150VDC	0V	0V	0V	16.5VDC	24VDC	6.8VAC
11	6BE	0V	0V	-1.1VDC	-1.1VDC	0V	-2VDC	4.8VAC	0V
12	6SL70T	0V	65VDC	3VDC	0V	86VDC	8VDC	6.8VAC	0V
13	6V6GT	0V	0V	270VDC	240VDC	0V	0V	6.8VAC	14.5VDC
14	6V6GT	0V	0V	220VDC	240VDC	0V	0V	6.8VAC	14.5VDC
15	ODS/VR-100	14.5VDC	0V	155VDC	0V	155VDC	0V	14.5VDC	0V
16	6X4	0V	220VDC	0V	270VAC	0V	270VAC	250VDC	280VDC

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

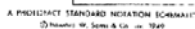
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	604	*500KΩ	0Ω	0Ω	.2Ω	*500KΩ	4.7 Meg.	0Ω	
2	6AG5	2. Meg.	Inf.	0Ω	.2Ω	*3.5KΩ	*3.5KΩ	170Ω	
3	6AG5	1.8Meg.	Inf.	0Ω	.2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7H7	2.2 Meg.	0Ω	*20KΩ	1000Ω	0Ω	*2Ω	.2Ω	10KΩ
5	6SK7	0Ω	.2Ω	0Ω	4.2 Meg.	270Ω	*60KΩ	0Ω	*1.5KΩ
6	6SQ7	0Ω	.2Ω	330Ω	2.6 Meg.	530Ω	60KΩ	0Ω	*1.5KΩ
7	7H7	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.8KΩ	.2Ω
8	7H7	0Ω	*50 KΩ	*52KΩ	0Ω	0Ω	240KΩ	0Ω	.2Ω
9	6BE	0Ω	0Ω	180KΩ	200KΩ	180KΩ	Inf.	.2Ω	0Ω
10	7A4	0V	*100KΩ	10Ω	Inf.	Inf.	60Ω	60Ω	.2Ω
11	6BE	0Ω	0Ω	2.2Meg.	1.7 Meg.	Inf.	150Ω	2.3Ω	Inf.
12	6SL70T	1 Meg.	*220KΩ	1.3KΩ	8.2KΩ	*22KΩ	1.2KΩ	.2Ω	0Ω
13	6V6GT	0Ω	0Ω	*200Ω	*240Ω	220KΩ	10KΩ	.2Ω	200Ω
14	6V6GT	0Ω	0Ω	*200Ω	*280Ω	220KΩ	150Ω	.2Ω	200Ω
15	ODS/VR-100	*2.2KΩ	0Ω	*2.2KΩ	220KΩ	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	6X4	Inf.	50KΩ	Inf.	60KΩ	Inf.	30Ω	45KΩ	50KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

* Measured from pin 5 of V16 (604).

† 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.



VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	604	83VDC	0V	0V	6.8VAC	83VDC	-1.4VDC	0V	
2	6AG5	0V	1.6VDC	0V	6.8VAC	835VDC	165VDC	1.6VDC	
3	6AG5	-1VDC	1.6VDC	0V	6.8VAC	840VDC	175VDC	1.6VDC	
4	7H7	-2VDC	0V	83VDC	1VDC	0V	125VDC	6.8VAC	2-2.4VDC
5	6SK7	0V	6.8VAC	0V	0V	8.2VDC	100VDC	0V	240VDC
6	6SQ7	0V	6.8VAC	2.8VDC	0V	2.8VDC	140VDC	0V	240VDC
7	7H7	0V	825VDC	800VDC	0V	0V	0V	7.6VDC	6.8VAC
8	7H7	0V	50VDC	50VDC	0V	0V	-5VDC	0V	6.8VAC
9	6BE	0V	0V	-5.7VDC	1.8VDC	-1.8VDC	0V	6.8VAC	0V
10	7A4	0V	150VDC	0V	0V	0V	16.5VDC	24VDC	6.8VAC
11	6BE	0V	0V	-1.1VDC	-1.1VDC	0V	-2VDC	4.8VAC	0V
12	6BL237	0V	65VDC	3VDC	0V	86VDC	8VDC	6.8VAC	0V
13	6V6GT	0V	0V	270VDC	240VDC	0V	0V	6.8VAC	14.5VDC
14	6V6GT	0V	0V	220VDC	240VDC	0V	0V	6.8VAC	14.5VDC
15	ODS/VR-100	14.5VDC	0V	155VDC	0V	155VDC	0V	14.5VDC	0V
16	6V6GT	0V	220VDC	0V	270VAC	0V	270VAC	250VDC	280VDC

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

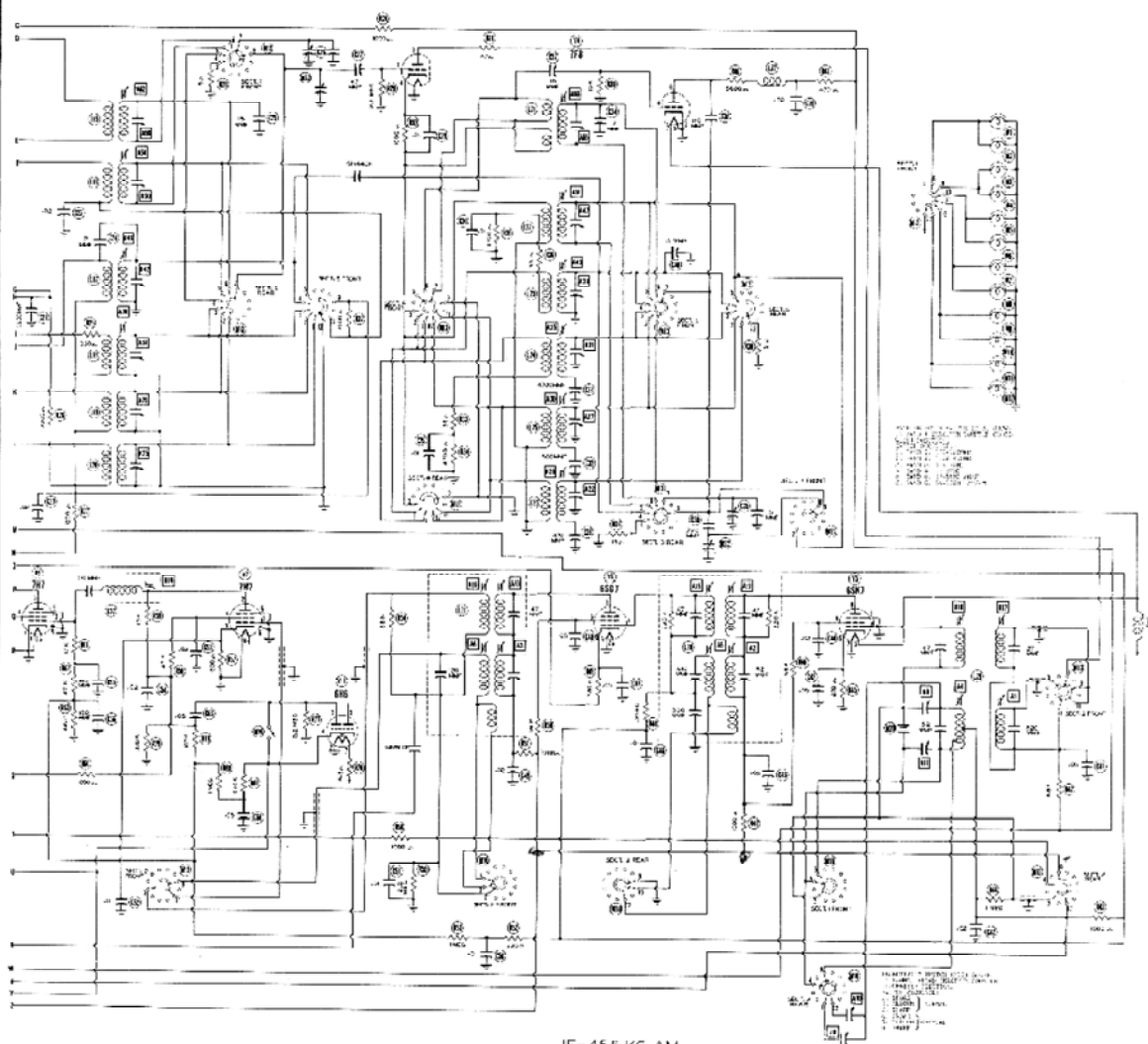
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	604	*500KΩ	0Ω	0Ω	.2Ω	*500KΩ	4.7 Meg.	0Ω	
2	6AG5	2. Meg.	Inf.	0Ω	.2Ω	*3.5KΩ	*3.5KΩ	170Ω	
3	6AG5	1.8Meg.	Inf.	0Ω	.2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7H7	2.2 Meg.	0Ω	*20KΩ	100Ω	0Ω	*2Ω	.2Ω	10KΩ
5	6SK7	0Ω	.2Ω	0Ω	4.2 Meg.	27Ω	*60KΩ	0Ω	*1.5KΩ
6	6SQ7	0Ω	.2Ω	330Ω	2.6 Meg.	530Ω	60KΩ	0Ω	*1.5KΩ
7	7H7	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.8KΩ	.2Ω
8	7H7	0Ω	*50 KΩ	*52KΩ	0Ω	0Ω	240KΩ	0Ω	.2Ω
9	6BE	0Ω	0Ω	180KΩ	200KΩ	180KΩ	Inf.	.2Ω	0Ω
10	7A4	0V	*100KΩ	10Ω	Inf.	Inf.	60Ω	60Ω	.2Ω
11	6BE	0Ω	0Ω	2.2Meg.	1.7 Meg.	Inf.	150Ω	2.3Ω	Inf.
12	6BL20T	1 Meg.	*220KΩ	1.3KΩ	8.2KΩ	*22KΩ	1.2KΩ	.2Ω	0Ω
13	6V6GT	0Ω	0Ω	*200Ω	*240Ω	220KΩ	10KΩ	.2Ω	200Ω
14	6V6GT	0Ω	0Ω	*200Ω	*280Ω	220KΩ	150Ω	.2Ω	200Ω
15	ODS/VR-100	*2.2KΩ	0Ω	*2.2KΩ	220KΩ	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	6V6GT	Inf.	50KΩ	Inf.	60KΩ	Inf.	30Ω	45KΩ	50KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

* Measured from pin 5 of V16 (604).

† 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.



IF=455 KC AM

IF=0.7 MC FM

A 10-07062C (UNBROADCAST) 10-07062C
1. REVISION 10-07062C 1. 10-07062C

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