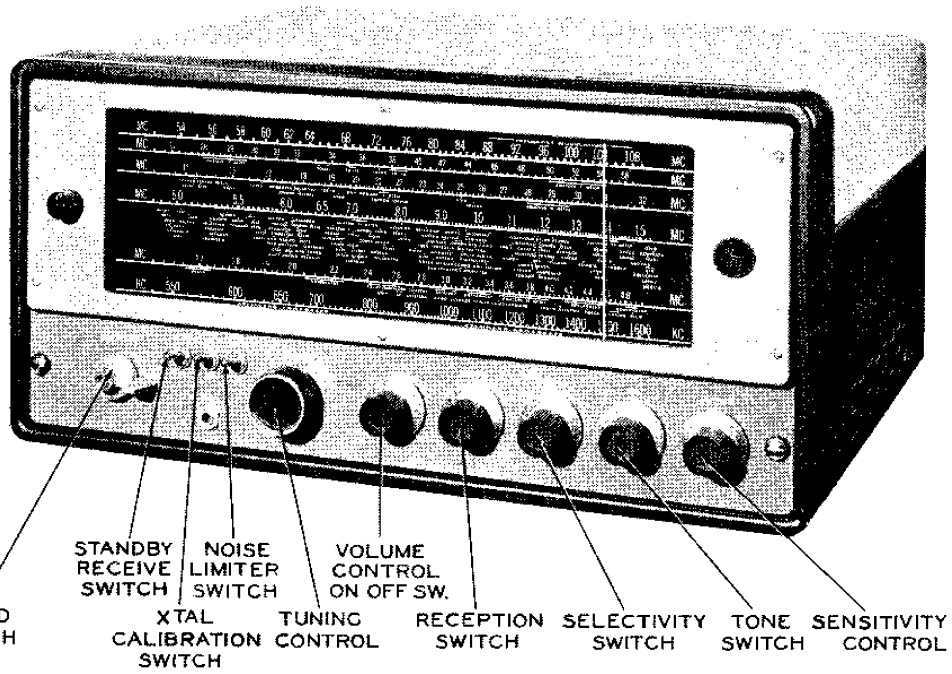
PHOTOFACT* Folder

HALLICRAFTERS MODEL SX-62

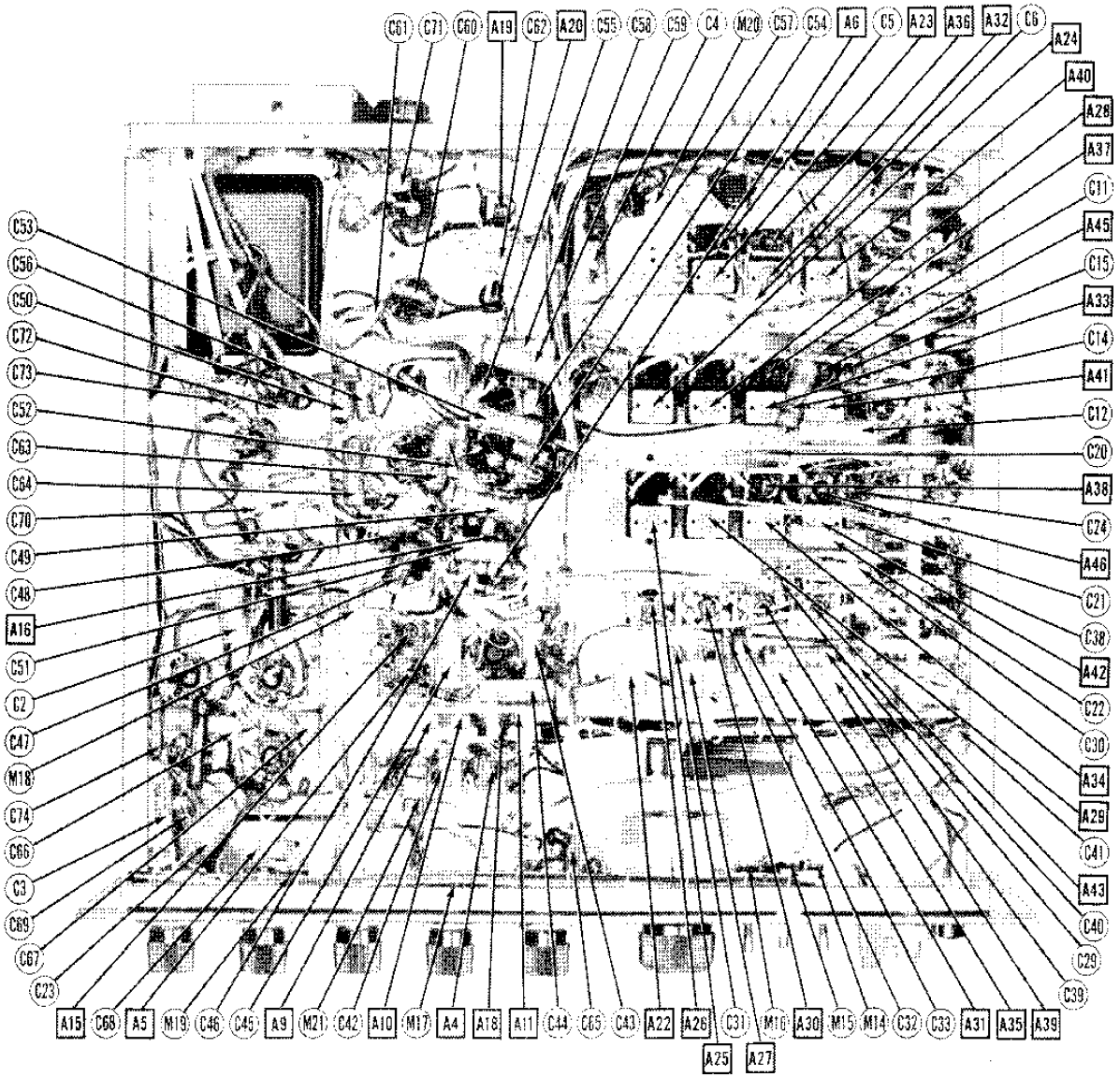


HALLICRAFTERS MODEL SX-62

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 6C4 XTAL Calib. Osc., 6AC5 1st RF Amp., 6AC5 2nd RF Amp., 7F8 Converter, 6SK7 1st IF Amp., 6SG7 2nd IF Amp., 7Y7 3rd IF Amp., 7H7 4th FM IF Amp.-AM DET-AVC, 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 1.62-4.9MC, Band#3 4.9-15MC, Band#4 15-32MC, Band#5 27-56MC AM-FM, Band#6 54-109MC AM-FM.

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

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


C61
C71
C60
A19
C62
A20
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C59
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M20
C57
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A4
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A11
C44
C65
C43
A22
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C31
M10
A30
M15
M14
C32
C33
A31
A35
A39
A25
A27

HALLICRAFTERS
MODEL SX-62

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA: HALLICRAFTERS PART No.	REPLACEMENT DATA: STANDARD REPLACEMENT	RMA BASE TYPE	NOTES
V1	XTAL Calib.Osc.	6C4	6C4	6D9	
V2	1st RF Amp.	6AG5	6AG5	7BD	
V3	2nd RF Amp.	6AG5	6AG5	7BD	
V4	Converter	7F8	7F8	8JW	
V5	1st IF Amp.	6SK7	6SK7	8N	
V6	2nd IF Amp.	6SK7	6SK7	8SK	
V7	3rd IF Amp.	7H7	7H7	8V	
V8	4th FM IF Amp. AM-DET-AVC	7S7	7S7	8V	
V9	Discriminator	6H6	6H6	7Q	
V10	CW Beat Osc.	7A4	7A4	5AC	
V11	Noise Limiter	6H6	6H6	7Q	
V12	AF-Phase Inv.	6SL7GT	6SL7GT	6BD	
V13	Power Output	6V6GT	6V6GT	7AC	
V14	Power Output	6V6GT	6V6GT	7AC	
V15	Voltage Regulator	0A3/VR-150	0A3/VR-150	4AJ	
V16	Rectifier	5U4G	5U4G	5T	

CAPACITORS

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

ITEM No.	RATING: CAP.	RATING: VOLT	REPLACEMENT DATA: HALLICRAFT. PART No.	REPLACEMENT DATA: AEROVOX PART No.	REPLACEMENT DATA: CORNELL-DUBILIER PART No.	REPLACEMENT DATA: ERIE PART No.	REPLACEMENT DATA: SOLAR PART No.	REPLACEMENT DATA: SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
C1A	30	450	45A041§	AF444J4A	DF4445C		DY-313	K5-330	▲ Filter
B	20	450							■ ▲ Filter
C	20	25							Output Cath. Bypass
C2	10	25	45A121	PRS25/10	PR102A		M-10-25	TA-10	AF Cath. Bypass
C3	100	25	45A116	PRS25/100	BRH251		M-100-25	UHC-100	Cathode Bypass
C4	.01	600	46AZ103M	P688-01	GT681	GP2-335-01	ST-6-01	68P33	XTAL Cal. Plate Bypass
C5	2		47A160-4			NP0K-3			RF Coupling
C6	.05	200	49A091	P288-05	GT2S5		ST-4-05	68P16	AVC Filter
C7	5		CC20UK050U	1409-000005	5R5VS	NP0K-5	MC5.5-55	MS-55	Fixed Trimmer " "
C8	7		CC20UK070K						
C9	.05	200	49A091	P288-05	GT2S5		ST-4-05	68P16	1st RF Cath. Bypass
C10	.01	600	46AZ103M	P688-01	GT681	GP2-335-01	ST-6-01	68P33	1st RF Screen Bypass
C11	.02	600	46AY203J	P688-02	GT682		ST-6-02	68P34	1st RF Plate Decoup.
C12	.02	600	46AY203J	P688-02	GT682		ST-6-02	68P34	" " " "
C13	5600	500	CM35A562M	1467-006	1D5D5	GP2M-005	MW.5-26	1FM-26	" " " "
C14	.05	200	49A0S03K	P288-05	GT2S5		ST-4-05	68P16	AVC Filter
C15	2		47A160-4						RF Coupling
C16	15		CC20UK150K					MS-415	Fixed Trimmer " "
C17	7		CC20UK070K						
C18	.05	200	46AJ503K	P288-05	GT2S5		ST-4-05	68P16	2nd IF Cath. Bypass
C19	.01	600	46AZ103M	P688-01	GT681	GP2-335-01	ST-6-01	68P33	2nd IF Screen Bypass
C20	.02	600	46AY203J	P688-02	GT682		ST-6-02	68P34	2nd IF Plate Decoup.
C21	5600	500	CM35A562M	1467-006	1D5D5	GP2M-005	MW.5-26	1FM-26	" " " "
C22	.02	600	46AY205J	P688-02	GT682		ST-6-02	68P34	" " " "
C23	.25	200	46AT254J	P488-25	GT2P25		ST-2-25	68P24	Cathode Bypass
C24	2		47A160-4			NP0K-3			RF Coupling
C25	15		CC20UK150K					MS-415	Fixed Trimmer " "
C26	7		CC20UK070K						
C27	47	500	CM20A470K	1468-00006	5W545	GP1K-50	MO.5-45	1FM-45	RF Coupling
C28	.01	600	46AZ103M	P688-01	GT681	GP2-335-01	ST-6-01	68P33	Mixer Cath. Bypass
C29	.01	600	46AZ103M	P688-01	GT681	GP2-335-01	ST-6-01	68P33	" " "
C30	.01	600	46AZ103J	P688-01	GT681	GP2-335-01	ST-6-01	68P33	" " "
C31	470	500	CM20A471G				MW5.5-215		Fixed Padder " "
C32	1500	500	CM30C152G	1464-0015	1R5D15				" "
C33	4700	500	CM35D472G						" "
C34	7		CC20UK070K						Fixed Trimmer " "
C35	6		CC20UJ060D	1469-000005	5R5V5	NP0K-5	MC8.5-55	MS-55	" "
C36	220	500	CM25E221G						Fixed Padder
C37	110		CC25UK111J	1468-0001	5W5T1	GP1K-100	MO.5-31	1FM-31	Osc. Grid Cap.
C38	110		CC25UK111J	1468-0001	5W5T1	GP1K-100	MO.5-31	1FM-31	Osc. Feedback
C39	.02	600	46AY203J	P682-02	GT4S2		ST-6-02	68P34	Osc. Plate Decoupling
C40	15		CC20UK150K					MS-415	Fixed Trimmer Note
C41	.05	600	46AY503K	P685-05	GT6S5		ST-6-05	TM-15	Mixer Plate Decoup.
C42	.02	600	46AY203K	P685-02	GT6S2		ST-6-02	TM-12	AVC Filter
C43	.05	200	46AJ503J	P285-05	GT2S5		ST-4-05	TM-15	1st IF Cath. Bypass

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	RATING: RESISTANCE	RATING: WATTS	REPLACEMENT DATA: HALLICRAFTER PART No.	REPLACEMENT DATA: IRC PART No.	IDENTIFICATION CODES
R27	1200Ω	½	RC20AE122K	BTS-1200	Br.-Red-Red 2nd RF Decoupling
R28	16Ω	½	RC20AE150M		Br.-Grn.-Blk. RF Coil Shunt
R29	2.2 Meg.	½	RC20AE225K	BTS-2.2 Meg.	Red-Red-Grn. Converter Grid
R30	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red Converter Cathode
R31	47Ω	½	RC20AE470M		Yl.-Vi.-Blk. Parasitic Suppressor
R32	2200Ω	½	RC20AE222M	BTS-2200	Red-Red-Red 2nd RF Decoupling
R33	56Ω	½	RC20AE560K		Grn.-Blue-Blk. Osc. Coil Shunt
R34	4700Ω	½	RC20AE472K	BTS-4700	Yl.-Vi.-Red Osc. Grid
R35	4700Ω	½	RC20AE472K	BTS-4700	Yl.-Vi.-Red " "
R36	33Ω	½	RC20AE330M		Or.-Or.-Blk. Osc. Coil Shunt
R37	15Ω	½	RC20AE150M		Br.-Grn.-Blk. " " "
R38	15Ω	½	RC20AE150M		Br.-Grn.-Blk. " " "
R39	10KΩ	½	RC20AE103K	BTS-10K	Br.-Blk.-Or. Osc. Grid
R40	5600Ω	1	RC30AE562K	BTA-5600	Grn.-Blue-Red Osc. Plate
R41	470Ω	½	RC20AE471M	BTS-470	Yl.-Vi.-Br. Osc. Plate Decoupling
R42	68KΩ	1	RC30AM683K	BTA-68K	Blue-Gray-Or. Mixer Decoupling
R43	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red AVC Network
R44	1 Meg.	½	RC20AE105M	BTS-1 Meg.	Br.-Blk.-Grn. " "
R45	270Ω	½	RC20AE271K		Red-Vi.-Br. 1st IF Cathode
R46	56KΩ	1	RC30AE563	BTA-56K	Grn.-Blue-Or. 1st IF Screen Decoupling
R47	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red 1st IF Decoupling
R48	1.2 Meg.	½	RC20AE125K	BTS-1.2 Meg.	Br.-Red-Grn. AVC Network
R49	330Ω	½	RC20AE331K		Or.-Or.-Br. 2nd IF Cathode
R50	56KΩ	1	RC20AE563	BTA-56K	Grn.-Blue-Or. 2nd IF Screen Decoupling
R51	1200Ω	½	RC20AE122K	BTS-1200	Br.-Red-Red 2nd IF Plate Decoupling
R52	220KΩ	½	RC20AE224K	BTS-220K	Red-Red-Yl. AVC Network
R53	1 Meg.	½	RC20AE105M	BTS-1 Meg.	Br.-Blk.-Grn. " "
R54	68KΩ	1	RC30AE683K	BTA-68K	Blue-Gray-Or. 3rd IF Coil Shunt
R55	2.2 Meg.	½	RC20AE225M	BTS-2.2 Meg.	Red-Red-Grn. 3rd IF Grid
R56	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red Limiter Decoupling
R57	1800Ω	½	RC20AE182K	BTS-1800	Br.-Gray-Red 3rd IF Cathode
R58	47KΩ	1	RC30AE473K	BTA-47K	Yl.-Vi.-Or. 3rd IF Screen Decoupling
R59	10KΩ	1	RC30AE103K	BTA-10K	Br.-Blk.-Or. 3rd IF Plate
R60	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red 3rd IF Decoupling
R61	47KΩ	½	RC20AE473K	BTS-47K	Yl.-Vi.-Or. Limiter Grid
R62	47KΩ	½	RC20AE473K	BTS-47K	Yl.-Vi.-Or. " "
R63	220KΩ	½	RC20AE224K	BTS-220K	Red-Red-Yl. " "
R64	100Ω	½	RC20AL101K		Br.-Blk.-Br. 3rd IF Cathode
R65	56KΩ	1	RC30AE563	BTA-56K	Grn.-Blue-Or. Limiter Decoupling
R66	330Ω	½	RC20AE331K		Or.-Or.-Br. Limiter Plate Decoupling
R67	220Ω	2	RC40AE221K	BW-2-220	Red-Red-Br. Output Cathode
R68	2500Ω	10	2130U202D	AB-2500	Filter
R69	47KΩ	½	RC20AE473K	BTS-47K	Yl.-Vi.-Or. Diss. Coil Shunt
R70	150KΩ	½	RC20AL154K	BTS-150K	Br.-Grn.-Yl. De-emphasis
R71	1.5 Meg.	½	RC20AE155K	BTS-1.5 Meg.	Br.-Grn.-Grn. AF Load
R72	120Ω	1	RC30AE121J	BW-½-120	Br.-Red-Br. AVC Shunt
R73	1200Ω	½	RC20AE122M	BTS-1200	Br.-Red-Red Beat Osc. Plate Decoupling
R74	510Ω	½	RC20AE511J		Grn.-Br.-Red Beat Osc. Cathode 5%
R75	47KΩ	½	RC20AE473K	BTS-47K	Yl.-Vi.-Or. Beat Osc. Grid
R76	6.8Ω	1	RC30AE068K	BW-1-6.8	Blue-Gray-Gold Noise Limiter Filament
R77	2.2 Meg.	½	RC20AE225M	BTS-2.2 Meg.	Red-Red-Grn. Noise Limiter Load
R78	100KΩ	½	RC20AE104M	BTS-100K	Br.-Blk.-Yl. Voltage Divider
R79	330KΩ	½	RC20AE334K	BTS-330K	Or.-Or.-Yl. " "
R80	1 Meg.	½	RC20AE105M	BTS-1 Meg.	Br.-Blk.-Grn. Voltage Divider
R81	470KΩ	½	RC20AE474K	BTS-470K	Yl.-Vi.-Yl. Noise Limiter Load
R82	1200Ω	½	RC20AE122K	BTS-1200	Br.-Red-Red AF Cathode
R83	56Ω	½	RC20AE560K	BW-½-56	Grn.-Blue-Blk. Feedback Network
R84	10KΩ	½	RC20AE103K	BTS-10K	Br.-Blk.-Or. " "
R85	1200Ω	½	RC20AE122K	BTS-1200	Br.-Red-Red Phase Inverter Cathode
R86	220KΩ	½	RC20AE224K	BTS-220K	Red-Red-Yl. AF Plate
R87	220KΩ	½	RC20AE224K	BTS-220K	Red-Red-Yl. Phase Inverter Plate
R88	1000Ω	2	RC40AE102K	BT-2-1000	Br.-Blk.-Red Feedback Network
R89	5200Ω	½	RC20AE822K	BTS-8200	Gray-Red-Red Phase Inverter Grid
R90	220KΩ	½	RC20AL224K	BTS-220K	Red-Red-Yl. Output Grid
R91	220KΩ	½	RC20AE224K	BTS-220K	Red-Red-Yl. " "
R92	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red R3 Coil Shunt See Note 1

Note. Some models use two 47Ω resistors in parallel.
Note 1. Not used in all models.

PARTS LIST AND DESCRIPTIONS (Continued)

ITEM No.	RATING CAP.	RATING VOLT	REPLACEMENT DATA HALLICRAFTERS PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SOLAR PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
C44	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	1st IF Screen Bypass
C45	.05	600	45AY503J	P683-05	GT685		ST-6-05	TM-15	1st IF Plate Decoup.
C46	.01	600	45AZ103J	P683-01	GT681	GP2-335-01	ST-6-01	TM-11	AVC Filter
C47	.05	200	46AY503J	P283-05	GT285		ST-4-05	TM-15	2nd IF Cath. Bypass
C48	.05	600	46AY503J	P684-05	GT685		ST-6-05	TM-15	2nd IF Screen Bypass
C49	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	2nd IF Plate Decoup.
C50	.01	600	45AZ103J	P683-01	GT681	GP2-335-01	ST-6-01	TM-11	AVC Filter
C51	.01	600	45AZ103J	P683-01	GT681	GP2-335-01	ST-6-01	TM-11	3rd IF Grid Filter
C52	.01	600	45AZ103J	P686-01	GT681	GP2-335-01	ST-6-01	TM-11	3rd IF Cath. Bypass
C53	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	3rd IF Screen Bypass
C54	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	3rd IF Plate Decoup.
C55	180	500	CM20A181K	1468-0002	5W572	GP2K-200	MO.5-32	1FM-32	Diode Filter
C56	180	500	CM20A181K	1468-0002	5W572	GP2K-200	MO.5-32	1FM-32	" "
C57	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	4th IF Screen Bypass
C58	.01	600	45AZ103J	P686-01	GT681	GP2-335-01	ST-6-01	TM-11	4th IF Plate Decoup.
C59	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	Decoupling
C60	47	500	CM20A470K	1468-00005	5W505	GP1K-50	MO.5-45	1FM-45	RF Bypass
C61	560	500	CM25A561K	1468-0005	1W576	GP2K-500	MO.5-56	MS-36	De-emphasis
C62	.05	600	46AY503J	P684-05	GT685		ST-6-05	TM-15	CW Beat Osc. Plate Dec.
C63	.05	200	46AY503J	P283-05	GT285		ST-4-05	TM-15	Audio Coupling
C64	.05	200	46AY503J	P286-05	GT285		ST-4-05	TM-15	Tone Comp.
C65	.01	600	45AZ103J	P683-01	GT681	GP2-335-01	ST-6-01	TM-11	Audio Coupling
C66	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	" "
C67	.02	600	46AY203J	P683-02	GT682		ST-6-02	TM-12	" "
C68	.05	600	46AY503J	P683-05	GT685		ST-6-05	TM-15	Tone Comp.
C69	.05	600	46AY503J	P683-05	GT685		ST-6-05	TM-15	" "
C70	.01	600	45AZ103J	P683-01	GT681	GP2-335-01	ST-6-01	TM-11	RF Bypass
C71	.01	600	45AZ103J	P683-01	GT681	GP2-335-01	ST-6-01	TM-11	Switch Bypass
C72	.01	600	46BR103J	P683-01	GT681		ST-6-01	TM-11	Line Filter
C73	.01	600	46BR103J	P683-01	GT681		ST-6-01	TM-11	Line Filter
C74	680	500	CM25A681K	1468-00075	1W577	GP2K-750	MO.5-37	1FM-37	Output Grid Bypass

§ Two 10MFD sections connected in parallel.
Note. Not used in all models.

CONTROLS

ITEM No.	RATING RESISTANCE	RATING WATTS	REPLACEMENT DATA PART No.	IRC PART No.	CLAROSTAT PART No.	INSTALLATION NOTES
R1A	1 Meg.	½	25A549	213-137	M-65-4	Volume Control
B	Shaft		Not Req.	A	Not Req.	Attach to R1A Per Instructions
C	Switch		Not Req.	41	SW-A	Attach to R1A Per Instructions
R2	10KΩ	½	25A548		M-27-S	Sensitivity control

RESISTORS

ITEM No.	RATING RESISTANCE	RATING WATTS	REPLACEMENT DATA HALLICRAFTERS PART No.	IRC PART No.	IDENTIFICATION CODES	
R3	4.7 Meg.	½	RC20AD475K	BTS-4.7 Meg.	Yl.-Vl.-Grn.	Crystal Oscillator Grid
R4	470KΩ	½	RC20AE474M	BTS-470K	Yl.-Vl.-Yl.	Crystal Oscillator Voltage Dropping
R5	27KΩ	2	RC40AE273K	ST-2-27K	Red-Vl.-Or.	Crystal Oscillator Plate Decoup.
R6	100KΩ	½	RC20AK104M	BTS-100K	Br.-Blk.-Yl.	Ant. Coil Shunt
R7	15Ω	½	RC20AK150M		Br.-Grn.-Blk.	" " "
R8	12Ω	½	RC20AJ120K		Br.-Red-Blk.	Parasitic Suppressor
R9	150Ω	½	RC20AE151K		Br.-Grn.-Br.	1st RF Cathode
R10	15Ω	½	RC20AK150M		Br.-Grn.-Blk.	RF Coil Shunt
R11	2200Ω	½	RC20AE222M	BTS-2200	Red-Red-Red	1st RF Decoupling
R12	1200Ω	½	RC20AE122K	BTS-1200	Br.-Red-Red	1st RF Decoupling
R13	330Ω	½	RC20AE331M		Or.-Or.-Br.	Parasitic Suppressor
R14	2.2 Meg.	½	RC20AE225K	BTS-2.2 Meg.	Red-Red-Grn.	AVC Network
R15	5.6 Meg.	½	RC20AE565K	BTS-5.6 Meg.	Grn.-Blue-Grn.	" "
R16	470KΩ	½	RC20AE474M	BTS-470K	Yl.-Vl.-Yl.	" "
R17	100KΩ	½	RC20AK104M	BTS-100K	Br.-Blk.-Yl.	RF Coil Shunt
R18	15Ω	½	RC20AK150M		Br.-Grn.-Blk.	" " "
R19	2200Ω	½	RC20AE222M	BTS-2200	Red-Red-Red	1st RF Decoupling
R20	150Ω	½	RC20AE151K		Br.-Grn.-Br.	2nd RF Cathode
R21	15Ω	½	RC20AE150M		Br.-Grn.-Blk.	Parasitic Suppressor See Note
R22	47KΩ	1	RC30AS473K	BTA-47K	Yl.-Vl.-Or.	2nd RF Decoupling
R23	100KΩ	1	RC30AE104K	BTA-100K	Br.-Blk.-Yl.	Voltage Divider
R24	1000Ω	½	RC20AE102M	BTS-1000	Br.-Blk.-Red	1st RF Plate Decoupling
R25	330Ω	½	RC20AE161M		Or.-Or.-Br.	Parasitic Suppressor
R26	2200Ω	½	RC20AE222M	BTS-2200	Red-Red-Red	2nd RF Decoupling

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING PRI.	RATING SEC. 1	RATING SEC. 2	RATING SEC. 3	REPLACEMENT DATA HALLICRAFTERS PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.
T1A	117VAC @ .98A	660VAC CT @ .145A	5VAC 3A	6.3VAC 4.7A	52C141	P-6314 *	FH-200 *	
B	115/230 VAC @ 25/30 Cycles				52C131			

* Add series resistor to reduce plate voltage.

TRANSFORMER (OUTPUT)

ITEM No.	RATING IMPEDANCE PRI.	RATING IMPEDANCE SEC.	RATING DC RES. PRI.	RATING DC RES. SEC.	REPLACEMENT DATA HALLICRAFTERS PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.	INSTALLATION NOTES
T2	6000Ω CT	6000Ω TAP @ 500Ω	480Ω CT	270Ω TAP @ 27Ω	55B077				

FILTER CHOKE

ITEM No.	RATINGS TOTAL DIRECT CURRENT	RATINGS D.C. RESISTANCE	RATINGS INDUCTANCE (0 CURRENT 1000 ~)	REPLACEMENT DATA HALLICRAFTERS PART No.	STANCOR PART No.	CHICAGO PART No.	MERIT PART No.	INSTALLATION NOTES
L1	.080A	290Ω	17H	56B067	C-1709	R-8120#	C-2990#	# Drill one new mounting hole.

R F COILS

ITEM No.	USE	DC RES. PRI.	DC RES. SEC.	REPLACEMENT DATA HALLICRAFTERS PART No.	MEISSNER PART No.	
L2	Ant. Coil	0Ω	0Ω	51B829		Band 6
L3	Ant. Coil	0Ω	0Ω	51B828		Band 5
L4	Ant. Coil	0Ω	0Ω	51B990		Band 4
L5	Ant. Coil	0Ω	0Ω	51B826		Band 3
L6	Ant. Coil	32Ω	.2Ω	51B823		Band 1
L7	1st RF Coil	0Ω	0Ω	51B833		Band 6
L8	1st RF Coil	0Ω	0Ω	51B832		Band 5
L9	1st RF Coil	.5Ω	0Ω	51B989		Band 4
L10	1st RF Coil	.1Ω	0Ω	51B987		Band 3
L11	Ant. Coil	0Ω	0Ω	51B825		Band 2
L12	1st RF Coil	.2Ω	.1Ω	51B824		Band 1
L13	RF Screen Chk.	0Ω		37A117		Wound on 330Ω res.
L14	RF Screen Chk.	0Ω		37A117		Wound on 330Ω res.
L15	2nd RF Coil	0Ω	0Ω	51B833		Band 6
L16	2nd RF Coil	0Ω	0Ω	51B844		Band 5
L17	2nd RF Coil	.1Ω	0Ω	51B839		Band 4
L18	2nd RF Coil	.3Ω	.1Ω	51B988		Band 3
L19	1st RF Coil	.1Ω	0Ω	51B986		Band 2
L20	2nd RF Coil	.1Ω	0Ω	51B985		Band 1
L21	Osc. Coil	0Ω	0Ω	51B839		Band 6
L22	Osc. Coil	0Ω	0Ω	51B838		Band 5
L23	Osc. Coil	0Ω	0Ω	51B891		Band 4
L24	Osc. Coil	.2Ω	0Ω	51B836		Band 3
L25	Osc. Coil	0Ω	.8Ω	51B835		Band 2
L26	Osc. Coil	0Ω	1.8Ω	51B834		Band 1
L27	RF Plate Chk.	2Ω		53B008		
L28	Fil. Choke	.2Ω		33A009		
L29A	FM 1st IF	.8Ω	.8Ω	50C198		
B	AM 1st IF	1Ω	13Ω			
L30A	FM 2nd IF	18Ω †	1Ω	50C190		† Include AM Pri. winding
B	AM 2nd IF					Tertiary winding .5Ω
L31A	FM 3rd IF		.8Ω	50C373		
B	AM 3rd IF	* 10Ω	9Ω			* Includes FM Pri. winding
L32	IF Coupling			53B104		
L33	FM Disc. XFMR	.2Ω	.2Ω	50C191		
L34	BFO Coil	0Ω		54C032		
L35	RF Plate	25Ω		53A139		

HALLICRAFTERS
MODEL SX-62
PAGE 5

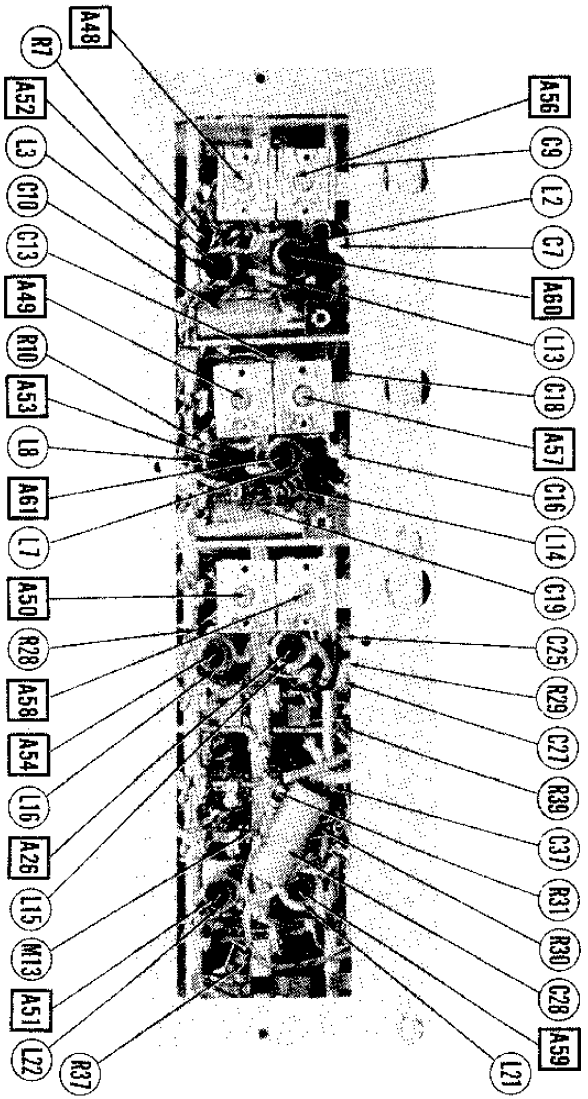
PARTS LIST AND DESCRIPTIONS (Continued)

DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					HALLICRAFTERS PART No.		
M1 to M12	Bayonet	6-8V	0.25A	Blue			Type #44

MISCELLANEOUS

ITEM No.	PART NAME	HALLICRAFTERS PART No.	NOTES
M13	Switch	60S329	Selector
M14	"	60A153	Standby
M15	"	60A138	XTAL. Calib.
M16	"	60A138	Noise Limiter
M17	"	60C330	Reception
M18	"	60A834	Selectivity
M19	"	60C246	Tone
M20	Crystal	19A128	455kC
M21		18A1811	500KC
M22	Tuning Gang	48C804	
	Trimmer	44A078	A8, A47, A35
	"	44B164	A9, A10, A11
	"	44A076	A22
	"	44A047	A27, A31
	"	44A347	A38
	Dual Trimmers	44B155	(A48, A56), (A49, A57), (A50, A58)
	Dial Scale	22R21	
	Dial Pointer	67R838	
	Knob	15A088-2	Band Selector
	"	15A046	Reception
	"	15A063	Selectivity
	"	15A062	Tone
	"	15A064	Sensitivity
	"	15A047	Tuning
	"	15A074-1	Pointer reset
	"	15A087	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.							
	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 5	Mid Scale	Across voice coil	A13, 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 RMA 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 RMA dummy antenna consists of a 200MMF capacitor in series with a 200Ω RF choke which is shunted by a 400MMF 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.	RMA 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.	RMA Dummy	"	600KC	"	600KC	"	A26	" " " "
15.	RMA Dummy	"	4.5MC	Band 2	4.5MC	"	A27, A28, A29	" " " "
16.	RMA Dummy	"	2.0MC	"	2.0MC	"	A30	" " " "
17.	RMA Dummy	"	14.0MC	Band 3	14.0MC	"	A31, A32, A33, A34	" " " "
18.	RMA Dummy	"	7.0MC	"	7.0MC	"	A35, A36, A37, A38	" " " "
19.	RMA Dummy	"	28.0MC	Band 4	28.0MC	"	A39, A40, A41, A42	" " " "
20.	RMA 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	6C4	23VDC	0V	0V	6.3VAC	23VDC	-.4VDC	0V	
2	6AQ5	0V	1.6VDC	0V	6.3VAC	235VDC	165VDC	1.6VDC	
3	6AQ5	-.1VDC	1.6VDC	0V	6.3VAC	240VDC	175VDC	1.6VDC	
4	7F8	-2VDC	0V	85VDC	1VDC	0V	125VDC	6.3VAC	-2.4VDC
5	6SK7	0V	6.3VAC	0V	0V	6.2VDC	100VDC	0V	240VDC
6	6SQ7	0V	6.3VAC	2.8VDC	0V	2.8VDC	140VDC	0V	240VDC
7	7H7	0V	225VDC	200VDC	0V	0V	0V	7.6VDC	6.3VAC
8	7H7	0V	50VDC	50VDC	0V	0V	-.5VDC	0V	6.3VAC
9	6F8	0V	0V	-5.7VDC	1.8VDC	-.8VDC	0V	6.3VAC	0V
10	7A4	0V	150VDC	0V	0V	0V	16.5VDC	24VDC	6.3VAC
11	6F8	0V	0V	-.1VDC	-.1VDC	0V	-.2VDC	4.5VAC	0V
12	6BL7GT	0V	85VDC	.8VDC	0V	86VDC	.8VDC	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	OD3/VR-150	1.5VDC	0V	155VDC	0V	155VDC	0V	1.4VDC	0V
16	6U8	0V	200VDC	0V	270VAC	0V	270VDC	250VDC	280VDC

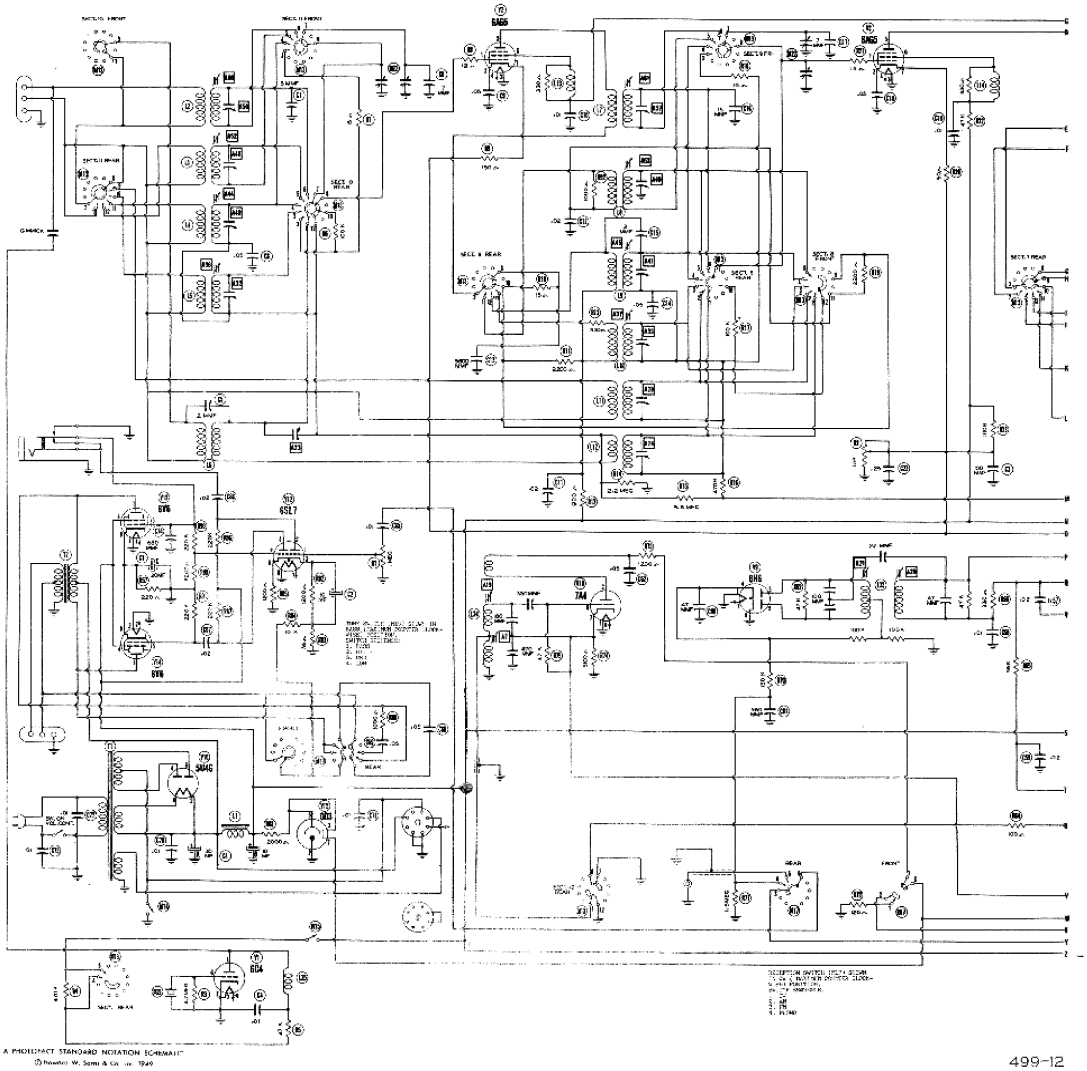
§TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6C4	*500KΩ	0Ω	0Ω	.2Ω	*50KΩ	4.7 Meg.	0Ω	
2	6AQ5	2 Meg.	Inf.	0Ω	.2Ω	*3.5kΩ	*3.5KΩ	170Ω	
3	6AQ5	1.8Meg.	Inf.	0Ω	.2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7F8	2.2 Meg.	0Ω	*70KΩ	100Ω	0Ω	*9KΩ	.2Ω	10KΩ
5	6SK7	0Ω	.2Ω	0Ω	2.2 Meg.	270Ω	*60KΩ	0Ω	*1.5KΩ
6	6SQ7	0Ω	.2Ω	330Ω	2.6 Meg.	550Ω	60KΩ	0Ω	*1.5kΩ
7	7H7	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.8KΩ	.2Ω
‡ 8	7H7	0Ω	*58 KΩ	*68KΩ	0Ω	0Ω	24KΩ	0Ω	.2Ω
‡ 9	6F8	0Ω	0Ω	180KΩ	200KΩ	180KΩ	Inf.	.2Ω	0Ω
† 10	7A4	0Ω	*160KΩ	10Ω	Inf.	Inf.	45KΩ	45KΩ	.2Ω
‡ 11	6F8	0Ω	0Ω	2.2Meg.	1.7 Meg.	Inf.	150KΩ	2.8KΩ	Inf.
12	6BL7GT	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	*250Ω	*250Ω	220KΩ	56Ω	.2Ω	220Ω
15	OD3/VR-150	* 2.2KΩ	0Ω	*2.2KΩ	220KΩ	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	6U8	Inf.	50KΩ	Inf.	60Ω	Inf.	36Ω	45KΩ	50KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.
* Measured from pin 5 of V16 (6U8)
† Taken in Band 2 position.

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



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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	6.3VAC	23VDC	-.4VDC	0V	
2	6AQ5	0V	1.6VDC	0V	6.3VAC	255VDC	165VDC	1.6VDC	
3	6AQ5	-.1VDC	1.6VDC	0V	6.3VAC	240VDC	175VDC	1.6VDC	
4	7F8	-2VDC	0V	85VDC	1VDC	0V	125VDC	6.3VAC	-2.4VDC
5	6SK7	0V	6.3VAC	0V	0V	6.8VDC	100VDC	0V	240VDC
6	6SQ7	0V	6.3VAC	2.8VDC	0V	2.8VDC	140VDC	0V	240VDC
7	7H7	0V	225VDC	200VDC	0V	0V	0V	7.6VDC	6.3VAC
8	7H7	0V	50VDC	50VDC	0V	0V	-.5VDC	0V	6.3VAC
9	6B6	0V	0V	-5.7VDC	1.8VDC	-.8VDC	0V	6.3VAC	0V
10	7A4	0V	150VDC	0V	0V	0V	16.5VDC	24VDC	6.3VAC
11	6H6	0V	0V	-.1VDC	0V	0V	-.2VDC	6.3VAC	0V
12	6BL7GT	0V	85VDC	.2VDC	0V	86VDC	.9VDC	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	CD6/VR-150	145VDC	0V	155VDC	0V	155VDC	0V	1.6VDC	0V
16	5U4G	0V	290VDC	0V	270VAC	0V	270VAC	250VDC	290VDC

§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	6AQ5	1.8Meg.	Inf.	0Ω	.2Ω	*1.2KΩ	*47KΩ	170Ω	
4	7F8	2.2 Meg.	0Ω	*70KΩ	100Ω	0Ω	*9KΩ	.2Ω	10KΩ
5	6SK7	0Ω	.2Ω	0Ω	2.2 Meg.	270Ω	*80Ω	0Ω	*1.5KΩ
6	6SQ7	0Ω	.2Ω	33KΩ	2.2 Meg.	330Ω	60KΩ	0Ω	*1.5KΩ
7	7H7	0Ω	*11KΩ	*50KΩ	0Ω	0Ω	2.2 Meg.	1.8KΩ	.2Ω
8	7H7	0Ω	*58 KΩ	*58KΩ	0Ω	0Ω	240KΩ	0Ω	.2Ω
9	6B6	0Ω	0Ω	180KΩ	200KΩ	120KΩ	Inf.	.2Ω	0Ω
10	7A4	0Ω	*100KΩ	10Ω	Inf.	Inf.	65Ω	65Ω	.2Ω
11	6H6	0Ω	0Ω	2.2Meg.	1.7 Meg.	Inf.	150Ω	2.8Ω	Inf.
12	6BL7GT	1 Meg.	*220KΩ	1.3KΩ	8.2KΩ	*220KΩ	1.2KΩ	.2Ω	0Ω
13	6V6GT	0Ω	0Ω	*200Ω	*280Ω	220KΩ	10KΩ	.2Ω	220Ω
14	6V6GT	0Ω	0Ω	*230Ω	*280Ω	220KΩ	56Ω	.2Ω	220Ω
15	CD6/VR-150	* 2.2KΩ	0Ω	*2.2KΩ	220KΩ	*2.2KΩ	Inf.	*2.2KΩ	Inf.
16	5U4G	Inf.	60KΩ	Inf.	60Ω	Inf.	36Ω	45KΩ	60KΩ

‡ VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.
* Measured from pin 5 of V16 (6U4G)
† Taken in band 2 position.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
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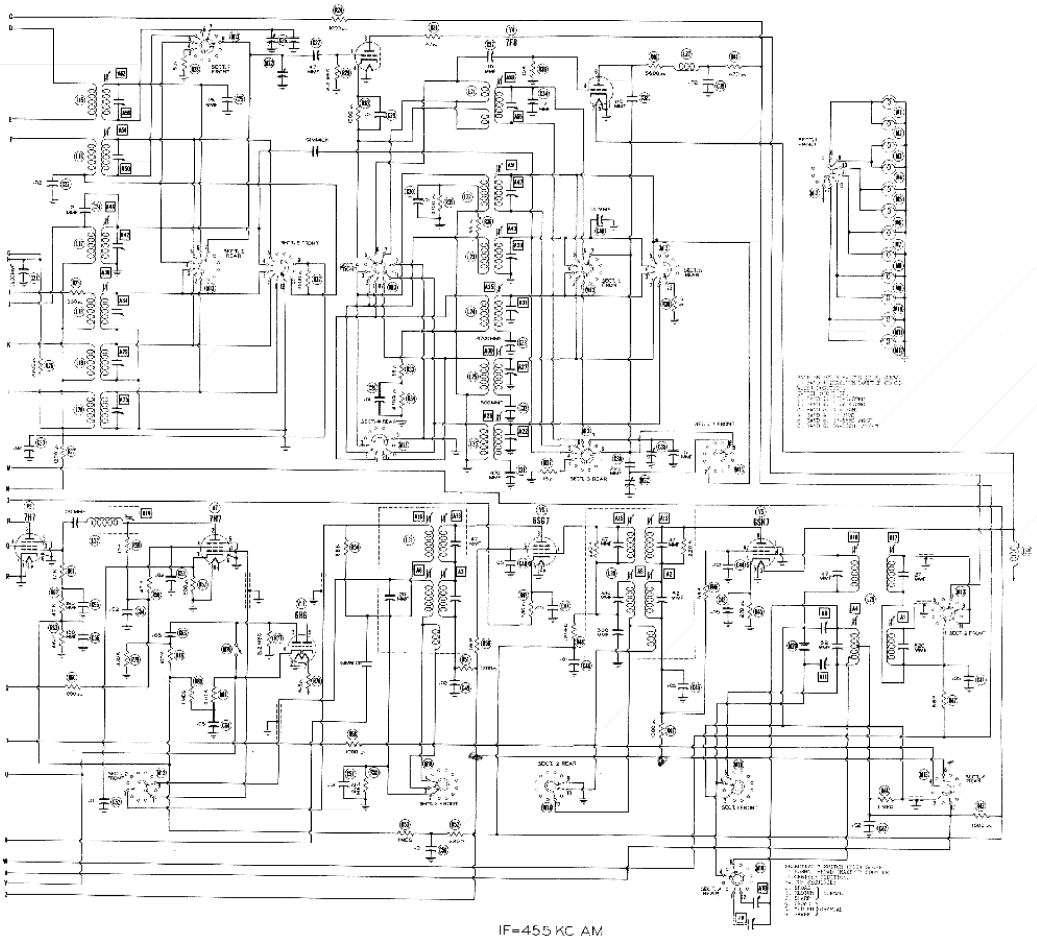

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IF=10.7 MC FM

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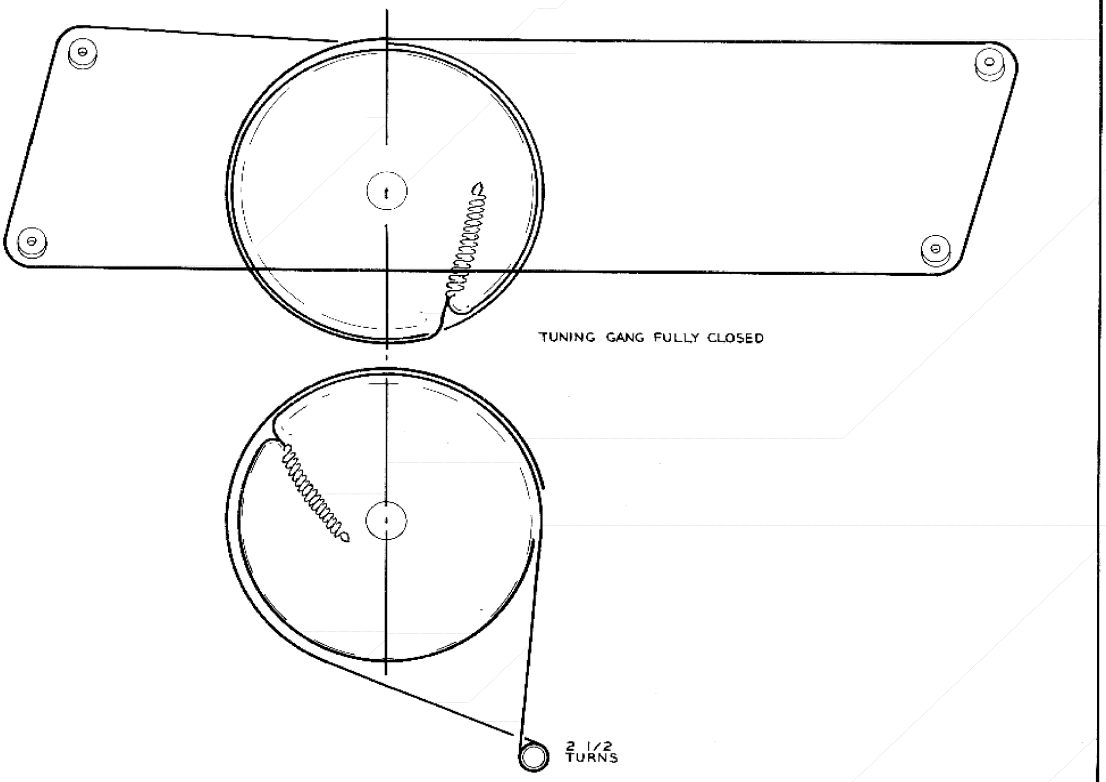

DIAL CORD DRIVE

K4XL's  BAMA

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