

OPERATING AND SERVICE INSTRUCTIONS

RADIO RECEIVER MODEL SX-62B

WARRANTY

The Halleculter's Company searonts and new radio product manyferringed by it to be free from depleties meterial and understanding and agrees to remedy any seed depeter or to familia in anne parts in extemply from any part of any sain of the anneals of the proposed to the angle of the product of the product of the proposed of the unit as delivered by the owner to our understord radio defect, valued self- from when producted, or constructed service context, tested, for estimatests, such all transportation charges prepared suffers interface, the construction of the production of the production of the protead of the production of the production of the protead of the production of the product that it is that such depetitive.

This warranty does not extend to any of our radio products which how been subjected to minure, neglect, accident, incorrect utring not our ours, improper installation, or to use in violation of instructions farmished by us, noe extended to units which have been repaired or altered outside of our fectory or endiversiond service center, not to cause where the areid number thereof has been removed, defected or changed, not to accurate used threships had been removed, defected or changed,

Any part of a unit approved for remedy or exchange hereunder will be remedied or exchanged by the authorized radio dealer or wholesaler without charge to the owner.

saler uithout charge to the owner.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for an any other liability in connection with the sale of our racillo products.

the hallicrafters co.



Figure 1. Radio Receiver Model SX-62B/62BU

GENERAL SPECIFICATIONS

Tubes Thirteen plus voltage regulator and rectifier	FREQUENCY COVERAGE			
Speaker Output 3.2/8/500 ohms	BAND	FREQUENCY RANGE	TYPE OF RECEPTION	
Headset Output High impedance				
Antenna Input For 50 to 600 ohm line or	1	550 KC - 1620 KC	AM/CW	
single wire lead-in	2	1.62 MC - 4.9 MC	AM/CW	
Phono Input	3	4.9 MC - 15 MC	AM/CW	
Tuning Range See Frequency Coverage	4	15 MC - 32 MC	AM/CW	
Intermediate Frequency 455 kc/10.7 mc	5	27 MC - 56 MC	AM/FM/CV	
Power Supply SX-62B 105-125V 60 Cycles AC SX-62BU 105-250V 25/100 Cycles AC	6	54 MC - 109 MC	AM/FM/CV	

The Model SX-628 (SX-628 U, available on special order) receiver is a sensitive high fidelity superheterodyne receiver covering all of the broadcasting services between Set bilicecyles (SC) and 100 meagacyles (MC). The receiver is capable of receiving both the FM (Frequency Modulation) and AM (Amplitude Modulation) broadcasts transmitted in this frequency range as shown in the FREQUENCY COVERAGE from

A built-in 500 kc crystal controlled calibrating oscillator and adjustable dial pointer permit accurate dial calibration on the large direct reading silder rule disal. Marker signals appear every 500 kc on the dial scale with this per of marker oscillator; hence, dial calibration may be held to very close limits over the entire dial scale by comparison with the marker signal. This calibration feature of the Model SX-62 receiver makes it possible to log the most prominent shortware stations by contries directly on the dial. In addition, many of the active communication channels; government, amateur, police, aviation, etc. are logged by kars to indicate their location on the dial. World-wide reception is excomplished simply by net-ceiged to discuss the discussion of the dial. World-wide reception is excomplished simply by net-ceiged to discuss the discussion of the dial. World-wide reception is made to the discussion of the discussion of

The receiver selectivity is adjustable to accommodate the broad response required for high fidelity FM and AM broadcast reception to the sharpest crystal selectivity required for code reception in the crowded channels of the short wave bands. A FM-AFC position on the RECEPTION switch "locks" the receiver onto the station frequency.

The high fidelity tone compensated audio system provides four distinct tone ranges covering full range reception for entertainment purposes as well as the restricted range required for communication work in either voice or code.

An automatic noise limiter, operated by a toggle switch, permits the operator to reduce the background noise caused by severe electrical disturbances. Background noise is reduced in the model SX-62 with a minimum of audio distortion.

A RECEIVE-STANDBY switch permits receiver disabling for short standby periods without having to wait for the tube heaters to reach operation temperature when reception is again required.

The receiver normally operates from a 105-125 volt 80 cycle alternating current (AC) source. A special model of the SX-628 receiver permits operation from 25 to 100 cycle alternating current sources operating at voltages ranging from 105-250 volts. The power requirements for your receiver must be checked carefully. Read over the installation section of this book before connecting to your power source.

IMPORTANT

Your careful attention is especially invited to the installation and operating instructions. They have been provided to insure the astistation you have a right to expect from a fallicuration Fuercisson Built' product. Your receiver has an unusually high dispres of sensitivity necessary to receive weak and distant stations. Careless operation of a high sensitivity receiver may result in excess soles or background hiss. These undestrable effects can be held to a minimum by careful adjustment of the sensitivity, tuning and tone controls as well as proper selection and arrangement of the antenna.

INSTALLATION

UNPACKING - Check all shipping instruction tags carefully before removing them.

LOCATION - The receiver is equipped with rubber feet for table top or shelf mounting. When locating the receiver, avoid excessively warm locations such as near radiators, hot air registers, or confined dead air spaces such as are encountered in recessed installations.

POWER SOURCE - The receiver, as normally supplied, operates from a 105 to 125 volt, 50/60 cycle AC outlet. Power consumption is approximately 150 vatts. If you are in doubt or unfamiliar with the voltage and frequency rating of your utility service, consult your local power company representative. Attempting to operate the receiver from other sources of power than specified may involve costly repairs.

A special model is available for operation from 115 V./130 V./150 V./220 V./250 V. 25/100 cycle AC sources. A selector switch on the power transformer permits operation on any of the line voltages shown.

CAUTION - When operating the universal model, it is necessary to check, and set if necessary, the selector switch on the power transformer before connecting the receiver to the source of power.

SPEAKER CONNECTION - Four screw type terminals located on the rear chassis apron are provided for the speaker connection. The output impedances are 3.2, 8, and 500 obns. Any suitable speaker unit which portar with the available output impedances may be used with the Model SX-62B receiver. Hallicrafters Model R-48A speaker connects to the 3.2 obn terminals (marked COM/3.2).

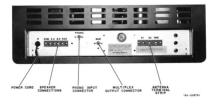


Figure 2. Rear View

ANTENNA - The terminal marked A1, A2, and G on the back of the receiver are for the antenna and ground connections, assistance years can be obtained in most possible so with the 15 for startman wire included with your receiver. 100m, assistance years are consistent or the connection of the connect

Doublet Antenna - For really top performance, there is no ministrate for an outside doublet antenna. When properly constructed and installed, the doublet antenna will provide not only optimum shortware reception but excellent standard broadcast reception as well. The overall ineight in feet) of the doublet is determined by dividing 460 by the reception of the control of the cont

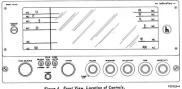
By feeding the doublet antenna with a 300 ohm transmission line, a broader frequency response is obtained than that possible with a 50⁻¹⁵ dom line. If a ribbon type transmission line is used, connect the line to terminal Al and A2 and disconnect the line pre-between A2 and G. When using a coaxial transmission line, connect the inner conductor to A1, the outer conductor to A2, and place the jumps between A2 and G.



Figure 3. Wiring Diagram, Record Player Connection.

RECORD PLAYER CONNECTION - A shielded type receptacle is provided at the rear chassis apron to accommodate a record player pickup cable connector. Any record player employing a crystal cartridge or high level magnetic pickup in its tone arm may be used with the receiver. Refer to Figure 3. for wiring details.

OPERATION



Floure 4. Front View, Location of Controls.

GENERAL BROADCAST RECEPTION - Certain front namel controls have been color coded to simplify the tuning procedure for general entertainment purposes. High fidelity reception in the standard broadcast (AM) and frequency modulation (FM) bands may be accomplished as follows: Turn the volume control clockwise beyond the tell tale click of the switch. This turns the receiver on as indicated by the illumination of one of the dial scales. Similarly the receiver is turned off by turning the control counter-clockwise beyond the click of the switch. At this point the three "bat-handle" switches may be set at "RECEIVE" and "OFF" and forgotten. To receive standard broadcast (AM) services; set the BAND SELECTOR for the position that illuminates the 550-1620 kilocycle scale (bottom scale), set the RECEPTION, SELECTIVITY, TONE and SENSITIVITY controls per the red dot, and adjust the TUNING and VOL-UME controls in the normal manner, tuning for clearest reception as usual.

CONTROL RADIO-TELEPHONE	CW
VOLUME control - This control turns the receiver on and off in addition to controlling S the volume. Turn the control clockwise to turn on the receiver or increase volume, and counter-clockwise to reduce volume or turn off the receiver.	iame

RECEIVE/STANDBY ewitch the receiver for short standby periods and yet keep the tube heaters at operating temperature for instant use.

RECEPTION control -Set at "AM" for reception of amplitude modulated stations located in the Set at "CW"

standard broadcast band or any of the shortwave bands, or at "FM" to tune FM stations located in the two highest frequency ranges (two top dial scales), then set at "FM-AFC" to lock onto the station frequency.

BAND SELECTOR -Set for position that illuminates the dial scale covering the desired Same band of frequencies. Extreme left hand position of this control illuminates the lowest dial scale.

TUNING control -The tuning control sets the frequency of reception, tuning the band of frequencies shown on the illuminated dial scale. The frequency of reception is shown in kilocycles (KC) on the standard broadcast range and in megacycles (MC) on the shortwave and FM ranges. The frequencies of the local stations are generally listed in newspapers, AM stations in kilocycles and FM stations in megacycles. Information on short wave stations, not identified directly from the dial, may be obtained from published log books available at most book stores or radio supply houses. When tuning for the station. tune carefully for the clearest reception and obtain top perform-

ance from your receiver.

The tuning control sets the frequency of reception, tuning the band of frequencies shown on the illuminated dial scale. The frequency of reception is shown in megacycles (MC) on the shortwave bands used by code transmitters. When tuning for the station, tune for the pitch of the code signal found easiest to copy. The pitch of the code signal will usually run approximately 1000 cycles.

SELECTIVITY

Normally set at "NORMAL/BROAD" for high fidelity reception in the standard braisedast and FM basids. Use the "NORMAL/BRAP" or NORMAL/BRAP" for the more crewded contained by the standard braided and the receiver is under more selective, the background noise and interference from nearly stations in ordeaced. The setting of the selectivity control is generally been detectively to inside the desired stations. The "CRYSTAL/BRADD" position may be used when the frequency of reception is extremely compared.

This control may be set at "NOR-MAL/MED." OR "NORMAL SHARD" of the property of

SENSITIVITY control -

Normally set maximum clockwise. Local high powered stations may overload the receiver, showing up as distortion, hence conditions may require that this control be turned counter-clockwise to reduce the sensitivity of the receiver accordingly.

The receiver sensitivity must be controlled manually for code reception, hence the SENSITIVITY control must be advanced just enough to keep the code stations from blocking the receiver.

TONE control -

Normally set at "HI-FI" or "BASS" for AM or FM entertainment purposes. The "LOW" and "MED." positions will be found desirable when listening on the shortware bands. Normally set at "LOW" or 'MED." for code reception.

USE OF THE CALIBRATING CRYSTAL - A built-in secondary frequency standard and adjustable dial pointer permits accurate frequency calibration over any portion of the receiver dial. Three degrees of dial calibration accuracy may be had as follows:

- General Dial Indexing Run the dial pointer down to the left hand end of the dial scale, turning the TUNING knob until the left hand dial stop is reached. Line up the dial pointer with the index line using the small POINTER RESET knob located to the left of the dial escutcheon.
- 2. Average Dial Chilbration Johns the dial pointer as described above. Set the CALIB. XTAL switch at "CALIB. XTAL", RECEITOR switch at CVA, and here the receiver to zero best with the calibrating estillator signal. The occiliator signal with before at maintainer of 200 kilorycine on the lower 5 dail vasies. i.e. 1000 ke and 1500 kir; 2 me., 5 me., 5 me., 6 me
- 3. Precise Dial Calibration To obtain a precise dial calibration the procedure outlined above should be repeated for the particular acction of the dial in use rather than merely checking calibration at either end of the dial scale. Since the calibration signals appear every 900 kc along the dial, a calibration point may easily be obtained on either side of the frequency of reception at any point along the dial.

tained on either side of the frequency of reception at any point along the dial.

After calibrating the receiver dial with the calibrating crystal, the oscillator is switched OFF and the RE-CEPTION switch returned to the desired setting for normal reception.

RECORD PLAYER OPERATION - With a record player connected to the receiver it is merely necessary to set the RECEPTION control at PHONO and operate the VOLUME and TONE controls as for normal radio reception.

CAUTION - The receiver will not respond if the RECEIVE/STANDBY switch is set at "STANDBY". The setting of the remaining controls, except those mentioned above, is immaterial as they are not in use for record player operation.

MULTIPLEX OUTPUT - A jack, located on the rear panel, provides an output from the FM detector that may be used with a multiplex adapter and stereo system for reception of stereo broadcasts in the FM band.

HEADPHONE RECEPTION - A headset jack, located at the front panel, provides for headphone reception. Insertion of the headset plur disables the speaker. Any high impedance headset, magnetic or crystal, will work with the receiver.

SERVICE

TUBE REPLACEMENT - The types of these required and their relative position in the receiver are shown in the inhustration, Fig. 2, when installing a replacement toke, instert the center quiete pin into the center lobe of the tube socket; rotate the tube until the key on the guide pin drops into the notch in the socket hole; and push down until the hase of the tube rests firmly on the socket. A slightly different technique must be used on the miniature tubes. They have seven small pins which have to be lined up with the socket holes before pushing into place. Handle with care as all tubes are considered fragile and on to telerate much mechanical abuse.

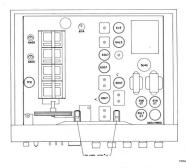


Figure 5. Top View Showing Location of Tubes and Dial Lamps

DIAL LAMP REPLACEMENT - Refer to Fig. 5 for the location of the dial lamps used in the receiver. To gain access to defective lamps, open the cabinet cover, remove the light shield (four screws) and unclip the dial lamp socket by compressing the side springs. The socket may then be brought out into the open to change the defective lamps. Replace all lamps with 6-8 will Maxid No. 44 (blue bead) or equivalent.

SERVICE OR OPERATING QUESTIONS - For further details regarding operation or servicing of the receiver, contact your dealer. Make no service shipments directly to the factory before first writing for authorization and instructions.

The factory cannot accept responsibility for unauthorized shipments.

The Hallicrafters Co. reserves the privilege of making revisions in current production of equipment and assumes no obligation to incorporate these revisions in earlier models.

POSITIONING CONTROL KNOBS

	As required by flat on shart	. As required by markings
VOLUME	Set at 10 for full clockwise rotation	As required by markings

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PESTRINGING DIAL CORD

Restring the tuning capacitor drive with a 45 inch length of 30 lb. test dial cord. Tie one end of the cord to the tension spring at position A and follow the stringing sequence A through J as shown. At position J stretch the tension spring and tie the cord securely to the spring. Note that the dial cord is wranged around the tuning drive shaft two and three-quarters times for proper traction.

Restring the dial pointer drive with a 75 inch length of 30 lb, test dial cord. Tie one end of the cord to the tension spring at position 1 and follow the stringing sequence 1 through 12 as illustrated. At mosition 12

stretch the tension spring and tie the cord securely. Index the dial pointer by setting the tuning gang at maximum capacity, the RESET control in the middle of its range, and aligning the pointer with the left hand dial

index marker

Figure 6. Dial Cable Stringing Procedure

ALIGNMENT F AMP ALIGNMENT (455 kc) - Set the controls as follow	T PROCEDURE
BAND SELECTOR	RECEPTION control AM SELECTIVITY control NORMAL/SHARP SENSITIVITY control Near Maximum Set tuning dial pointer at approximately 1,000 kc.

Connect high side of signal generator through an 0.1 mfd. capacitor to pin #1, of the 7F8 converter tube. With signal generator set at approximately 455 kc align slugs S-1, 3, 5, 10, 12 and 14 for maximum output.

Set RECEPTION control at CW and adjust slug S-8 for a 1,000 cycle note.

Set the SELECTIVITY control at CRYSTAL/BROAD. While slowly turning slug S-10 in one direction across the resonant setting obtained above, "rock" the signal generator tuning and observe the dip in the output meter reading as the adjustment passes through the response of the crystal filter. The correct setting of the slug S-10 is in the center of the observed dip. Set the signal generator at the weaker of the two responses obtained on either side of zero beat and adjust the crystal phasing trimmer C-57 for the null.

Set the SELECTIVITY control at CRYSTAL/SHARP and with trimmer C-61 set near minimum capacity, slowly increase its canacity while "rocking" the signal generator and adjust for maximum output. It may be necessary at this point to reduce the signal generator input and the receiver sensitivity to prevent overloading. After peaking the adjustpoint to reduce the signal generator ment turn the trimmer in until a drop in output of about 2 db occurs. At this point the sharp crystal will have very good selectivity without sacrificing too much gain. Tune the signal generator to exact crystal frequency and note output meter reading. Set the SELECTIVITY control

at CRYSTAL/BROAD and note the drop in output, and output meter reading. Now switch to CRYSTAL/MEDIUM and with trimmer C-60 near minimum capacity, slowly increase its capacity, while "rocking" the signal generator, until the output meter indicates about midway between the output readings obtained in sharp crystal and broad crystal position.

Set the SELECTIVITY control at CRYSTAL/SHARP and reset signal generator for the exact crystal frequency. Switch to NORMAL/SHARP and reset slugs S-1,3,5 12,14 and trimmer C-58 for maximum output.

Set the RECEPTION control at CW and adjust the BFO slug S-8 for zero beat.

IF AMP, ALIGNMENT (10.7 mc) - Set the controls as follows: BAND SELECTOR 27/56 mc range RECEPTION control AM SELECTIVITY control. . . . NORMAL/SHARP RECEIVE/STANDBY switch. . RECEIVE SENSITIVITY control Near Maximum CALIB. XTAL switch OFF NOISE LIMITER switch. . . . OFF Set tuning dial pointer at approx. midscale. VOLUME Near Maximum

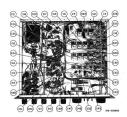
Connect the high side of the signal generator through an 0.1 mfd, capacitor to pin #1 of the 7F8 converter tube. Set signal generator at 10.7 mc and adjust slugs S-4.6.9.13 and 15 for maximum output. Now set slugs S-2 and S-11 for maximum output but do not readjust slugs S-4 6.9, 13 and 15.

Set RECEPTION control at CW and adjust slugs S-17 for zero beat.

milliwatt audio output level for best results.

Set RECEPTION control at FM and adjust slur S-16 for maximum output. Now set Slug S-7 for the null or minimum output as indicated on the output meter. Check the discriminator by slowly tuning the signal generator through 10.7 mc and observe the two maximum audio level readings on the output meter. If the two peaks are equal the iob is done; if not it may be necessary to reset Slug S-16 until a reasonable balance is obtained.

RF AMP ALIGNMENT After completing the alignment of the IF amplifier stages the RF amplifier stages may be aligned according to the following chart. Connect the high side of the signal generator to terminal A-1 through the dummy antenna specified and connect a jumper between antenna terminal A-2 and GND. Use just enough signal generator output to obtain a 500



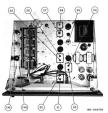


Figure 7. Alignment Adjustments, Bottom View

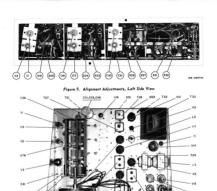
Figure 8. Alignment Adjustments, Top View

ALIGNMENT CHART

Dummy Antenna	Signal Generator Frequency	Band Selector Range	Radio Dial Setting	Adjust	Remarks
RMA	1500 kc	550-1600 kc	1500 kc	C-47*, 6, 21, 35	Adjust for max. output
	600 kc		600 kc	S-36*	
RMA	4.5 mc	1.62-4.9 mc	4.5 mc	C-45*, 20,34	Adjust for max. output
	2.0 mc		2.0 mc	8-35*	
RMA	14.0 mc	4.9-15 mc	14.0 mc	C-43*, 4, 19, 33	Adjust for max. output
	7.0 mc		7.0 mc	S-34*, 22, 26, 30	
RMA	28 mc	15-32 mc	28 mc	C-42*, 3, 18, 32	Adjust for max. output
	18 mc		18 mc	8-33*, 21, 25, 29	
300-ohm non-	50 mc	27-56 mc	50 mc	C-41*, 2, 17, 31	Adjust for max. output
inductive resistor	30 mc		30 mc	8-32*, 20, 24, 28	
300-ohm non-	105 mc	54-109 mc	105 mc	C-40*, 1, 16, 30	Adjust for max. output
inductive resistor	60 mc		60 mc	S-31*, 19, 23, 27	

^{*} Note - Calibration adjustment.

Note - The standard RMA dummy antenna mention in the alignment chart consists of a 200 mmf condenser in series with a 20 uh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.





C40

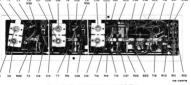
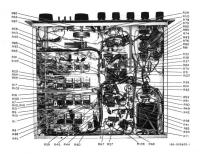


Figure 11. Component Locations, Left Side View



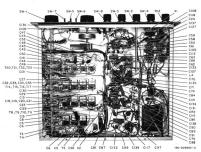


Figure 12. Component Locations, Bottom View

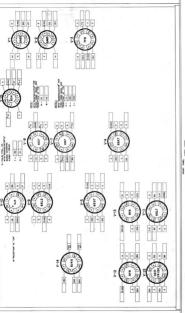
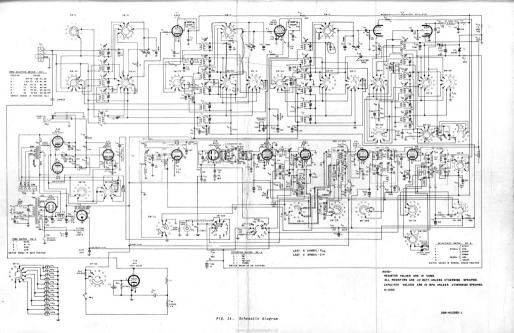


Figure 13. Tube Socket Voltage Chart

SERVICE PARTS LIST

Schematic Symbol	Description	Hallierafters Part Number	Schee		Hallierafters Part Number	Schen Symbo	atic d Description	Eallicrafters Part Number
	CAPACITORS			*RESISTORS (CONT).			TRANSFORMERS AND COILS (C)	ONT).
C1 7 16 17 30 3	11		911	47 chess 20%	451-253470	774	Transformer, 1st IF amp, stage	950-300196
Trimmer	rs, adjustable; I section;	044-200165	R24	33 obess 20%	451-253330	T25 T26	Transformer, 2nd IF amp, stage Transformer, 3rd IF amp, stage	950-300190 950-300273
stares	RF amp, and mixer		R25,	5 10K okme	451-292109	T27	Transfermer, 2nd 17 kmp, stage Transfermer, FM detector	
	3,21,32,33,34,35		926		451-352562	T28	Transformer, FM detector Transformer, BFO Transformer, audio output	050-300655
Part of to	ransformers 73,4,5,6, 14,15,16 and 17	**********	F27,	15 470 ohmus 20%	451-253471			053-300213
	vely		F28		451-352683	13		F63-200008
C5,129,130	. 500V., bukelite	047-100160-04	F29 F30,	120 ohmus	451-292121	1.2	RF chake (coded red) IF coupling out (lnc, 86)	053,200104
					451-253105			
5 mmf. 5	100V., ceramic	491-002050-95	F(\$1,)	100 obess	451-253330	14	RF choke; filament RF choke; acrees (wound on	053-190009
	, 200V., molded tubular	499-014473	F:33,	is .	411-100000		R95 A R961	
C9 Capacitos	or, made tuning 0,92,108,114,115,117,	048-300204	026	P/O transfermer T25 1.2 membras	451,059105	1.7	RF choke; plate	053-100129
			Pi37	200K ohms, I watt	451-352104			
.01 mdd.	800V., suctded tubular 0,59,63,74,85,87,91,	499-031103	R38 R39,	270 obass	451-252271		TURKS AND LAMPS	
					451-252563			090-900751
	L 600V., mobbed tubular	499-031223	R41,	9,79,80,81,83	451,252224		Type 6AG5, 1st and 3nd RF awp-	
C14,28	of, 500V., maca	470-514569	B44.	220K ohmo		V3	lifters Type 1F8, oscillator/miner	090-901145
					451-252475	74	Type 69KT, 1st IF amplifier Type 69GT, 2nd IF amplifier Type 69GT, 3rd IF amplifier 6	090-901233
15 mest.	506V., ceramic	491-006150-95	R46	27K obses, 2 works 680 obses	451-552273 451-252681	17,8	Type 69G7, 3rd IF amplifier &	090-901181
047 mis	, 200V., molded tubular	499-011473	R53			79	AM detector (Limiter) Tree SALS: discriminator	090-901163
			855	10K ohms, 1 wstt 17,71,94	451-352103	V10	Type 6JS, BFO	
.047 mid.	, 200V., molded tubular 200V., molded tubular	499-011472			451-252473			090-901219
35 35 38 120			B58,			V12,1	Type 6V6GT, AF power	090-901211
	100V., ceramic	491-006070-95	841	150K ohmus	451-252154			
62 med	500V., mica	499-213470		P/O transformer T27		V14	Type 504G, rectifier Type 003/V8150, voltage	090-900719
			255 255	1,5 megshess 5,1K obens, 5%	451-252155 451-251512			
	L 500V., ceramic	490-025111-95	R73		025-100549	V16	Type 6C4, calibration oscillator 2,3,4,5,6,7,8,9,10,11,12	090-900830
	r, adjustable; oscillator	044-190008	876,	12 56 obass	451-151560	LM1,	2,3,4,5,6,7,8,9,10,11,12 Lamp, pilot; 6-8V	039-100003
section b	bands 5 and 6; crystal		877		451-552302			
42 Trimmer	r, adjustable; escillator	044-100347	7152 7145		451-252022 451-550991			
section, I	band 4		R84	220 chess, 2 watts 2K ohms, 5%, 19 watts; WW	453-641992		SWITCHES	
Trimmer	v, adjustable; coeffister	044-100077				8W1	Switch, BAND SELECTOR Switch, SELECTIVITY	060-400329
		470-511477	289 231.	56K ohma	451-252683	57W 2	Switch, SELECTIVITY	060-100234
244 4700 mm	d, 23, 500V., silver	***************************************			451-252472		Switch RECEPTION Switch, TONE	060-000013
346 1500 mm	ut. 2%, 500V., stiver	470-421112	R95	P/O coil L5 P/O coil L6		8W3,		
enica 47 Trimmer	- administration constitutes	944-100075	R101			SW3	Switch, toggle; SPST	066-100138
er trimmer section b	r, adpastable; oscillator hand 1 f, 2%, 500V., silver mira f, 2%, 500V., silver mira			330 ohms 20%	451-253331	SWE	Switch, power (part of volume control H72)	
245 470 mmf	t, 2%, 500V., silver mica	470-231471 470-341221	R100	100 ohma	451-252100			
				1 megohas	451-252105			
	1, 600V., molded tubular	499-031473	9112	160K ohnus 1:5 mepohms, 5%	451-252164		PLUGS AND SOCKETS	
P.O.true	natormer T24					P1.8	Plug and cord, power	097-100076
		044-200084		*All Besistors are 19%, 1/2	watt, carbon	901,8		
	r, adjustable; crystal	044-200094		type unless otherwise noted.		902	Jacks; MUX, PHONO Jack, PHONES	036-100041
	19			TRANSFORMERS AND CO		-		086-200073-
P/O true	natormer T25	**********					Socket, octal; black molded Socket, octal; retea	006-200296 006-100223
P/O tran	natormer T26		TI	Transformer, antenna stage;	051-200029		Socket, miniature 7 oin- mica	
C88 P/O entil C89.90			77	band 6 Transformer, antenna stage:	951-200929		Socket, miniature 7 pin; molded takelite	006-100292
	f. 500V., mica	479-213181						006-100250
			73	Transformer, antenna stage; band 4	951-200990		Socket, miniature 7 pin	006-001122
	neformer 727 f. 900V., mica	479-313541	T4	Transformer, antenna stage:	651-200626			
			TS	band 3 Transformer, setema stage;	951-209523		MINCKLLANEOUS	
7/0 tear	neformer 728 25V., electrolytic f. 500V., mica	045-100121						
1110 600 must	f. 900V., mica	470-313661	Te		661-200833	X1	Clip, dial scale & window ratg.	075-100413
C111,113,116	25V., 30-20 min. 450V.	045-100041	TO TO	Transformer, RF stage; band 5 Transformer, RF stage; band 4	051-200832 051-200889	X1 X2	Crystal, 455 KC Crystal, calibration; 500 KC	619-10121
electrol:	ytte			Transformer, RF stage; band 2 Transformer, notenna stage;	051-200997	AE		
127 100 mds.	ytic L 25V., electrolytic , 20%, 506V., ceramic	045-100116	T10	Transformer, antenna stage;	051-200825		Dtal pointer Dtal scale (calibrated)	692-300301
			711	Transformer, RF stage; hand 1	051-200624	CRI	Itale, True 183182	009-003315
. \$4 mid.	+60-20%, 600V., ceramo	647-160217	T12	Transformer, mixer stage; band 5	051-200633	CH2	Diode, Type INSISS Diode, Type INSIS Eaststheon	009-002964
140 50 mmf.	500V., ceramic	491-092100-092	T13	Transformer, mixer stage:	051-200844			071-100118
	*RESISTORS		714	band 5 Transformer, mixer stage:	051-200589	FI		039-100428
	***	451-953164	114	Transformer, mixer stage; band 4			Fuse holder East, BAND SELECTOR OR	015-001593
	ma 20%	451-252120	T15		051-200988			
200K ohr		451-252151	716	band 3 Transformer, mixer stage;	051-700585		Kash, POINTER RESET Kash, RECEPTION,	015-000609
100K ohr R2 12 ohnus R3 15							SELECTIVITY, TONE, VOLUME 6 SENSITIVITY control	-10-00-101
100K ohr R2 12 ohms R3,15	ss. 1 wort	451-352473	Tiv	Transformer, mixer stage;	051-200985		& SENSITIVITY control	000-00000
190K ohr R2 12 ohmus R3,15 150 ohmu R4,54		451-253150	T18	Transformer, oscillator stage-	051-200629		Lock, line cord; male section Lock, line cord; female section	976-000397
190K ohr R2 12 ohms R3,15 150 ohm R4,54 47K ohm		**I-Section	T19		051-200628		Mounting foot; rubber	
100K ohr R2 12 ohms R3,15 150 ohm R4,54 47K ohm R5,9,14,19,90, 15 ohms	,103,164 20%		719	Transformer, cocillator stage; band 5			Pulley Assembly Shaft, general coverage dial	928-300111 974-100252
100K ohr R2 12 ohms R3,15 150 ohms R4,54 47K ohm R5,9,14,19,90, 15 ohms R8,12,17,00	,163,164 1 20%, max 20%.	451-253222			051-200991		Shaft index control	
100K ohr P2 12 ohms P3,15 150 ohms P4,54 47K ohms P3,9,14,19,90, 15 ohms P8,12,17,20 2,2K ohn P7,18,40,67,18,40,47,18,40,47,18,40,47,18,40,47,18,40,47,18,40,47,18,4	163,164 20% ms 20%	451-252222 451-252122	T20					
100K ohn R2 12 ohnus R3,15 150 ohnus R4,54 47K ohnu R5,9,14,19,90, 15 ohnus R8,12,17,20 2,2K ohn R7,18,40,67,74 1,2K ohnus R8,13,17,20 2,2K ohnus R8,13,19,90	103,164 20% ms 20% 4,76 ms	451-252122	T20	Transformer, cociliator stage; band 4 Transformer, carillator stage;	051-200635		Shaft index control Spring, 3/4 in, Lg.	975-100912 875-100923
100K ohr 12 12 ohms 13,15 150 ohm 143K ohm 15,9,14,19,90, 15 ohms 16,13,11,20, 2,2K ohr 17,11,40,67,74 1,2K ohr 1,2K ohr	103,164 120% ms 20% ms 20% ms some ms some		T21	Transformer, cociliator stage; band 4 Transformer, cociliator stage; band 3	051-200636	TS1		975-100893 985-200976
700K ohn R2 12 ohms R3,15 150 ohm R4,54 47K ohm R5,9,14,19,90, 15 ohms R8,12,11,20 2,2K ohn R2,18,40,67,74 1,2K ohn R2,18,40,67,74 1,2K ohn R2,42,109 47K ohn R2,42,109	1,00,164 1 20% ms 20% 4,78 ms 20% c; Sensitivity Control 81,105.116	451-252122 451-253474 625-100548		Transformer, cociliator stage; band 4 Transformer, cociliator stage; band 2 Transformer, cociliator stage;		TS1 TS2	Spring, 7/8 in, Lg, Terminal strip, antenna Terminal strip, meaker	075-100893 088-200976 088-200936
100K ohr 12 12 ohms 13,15 150 ohm 143K ohm 15,9,14,19,90, 15 ohms 16,13,11,20, 2,2K ohr 17,11,40,67,74 1,2K ohr 1,2K ohr	1,00,164 1 20% ms 20% 4,78 ms 20% c; Sensitivity Control 81,105.116	451-252122 451-253122	T21	Transformer, cociliator stage; band 4 Transformer, cociliator stage; band 3	051-200636	TS1 TS2		975-100893 985-200976



SERVICEMEN:	USE THE SPACE BELOW TO MAKE SPECIAL NOTES FOR FUTURE REFERENCE IN SERVICING THIS EQUIPMENT.						
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