installation and operating instructions for model S-72 portable radio receiver

FEATURES

AC/DC & PORTABLE OPERATION
AM BROADCAST 550 KC - 1600 KC
SHORT WAVE BROADCAST 1600 KC - 30 MC

DIRECT READING SLIDE RULE DIAL
HEADSET CONNECTION
AUTOMATIC NOISE LIMITER
CODE OR VOICE RECEPTION





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94X435

the hallicrafters co.

INSTALLATION AND OPERATING INSTRUCTIONS RADIO RECEIVER MODEL 5-72



Fig. 1. Radio Receiver Model S-72

DESCRIPTION

The Model S-72 radio receiver is a portable all-wave superheterodyne received capable of receiving all of the broadcasting services between 550 kilocycles (KC) and 30 megacycles (MC) in four overlapping bands as follows:

FREQUENCY COVERAGE			
BANDS	*FREQUENCY RANGE	**TYPE OF RECEPTION	
1	550 KC - 1620 KC	AM/CW	
2	1.6 MC - 4.4 MC	AM/CW	
3	4.5 MC - 11.5 MC	AM/CW	
4	11.0 MC - 30.0 MC	AM/CW	

^{*} First and last dial calibration. ** AM - Amplitude Modulation

Any narrow range of frequencies in the entire frequency spectrum covered by the receiver may be spread out electrically with the BAND SPREAD control. This feature provides more desirable tuning in the short wave broadcast ranges and particularly in the amateur bands.

The self-contained antenna system consists of a loop for band 1 (550 - 1620 kc) and a telescoping whip antenna for the sbort wave ranges (Bands 2, 3 and 4). An external antenna connection is provided for the use of a longer antenna for semi-portable operation.

A built-in speaker provides for loudspeaker reception, while bradphone reception may be had by plugging a beadest into the PHONES jack located on the front panel of the receiver. The speaker is silenced when the headset plug is inserted into the jack.

A noise limiter is incorporated to provide an improved signal to noise ratio when perating in areas where severe electrical disturbances exist.

The VOICE/CODE switch permits reception of either radio telephone or c-w code signals.

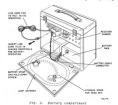
The receiver normally operates from a 105-125 V, DC (Direct Current) or 80 evele

AC (Alternating Current) power source or from a self-contained tailery made for portable operation. To place the receiver in operation it is merely messanty to insert the power plag into the wall outlet for AC/DC operation or install the battery made for portable operation. Refer to the installation details that follow, especially to the paragraph on "POWER SOURCE", before connecting the receiver to the wall outlet and avoid unnecessary and perhaps coulty repairs.

INSTALLATION

UNPACKING - Check all shipping tags and labels before removing or destroying them.

LOCATION - The receiver is equipped with carrying facilities for portable operation
as well as protective feet for table top or shelf mounting when operating from com-



mercial power sources. Reception in the standard broadcast band does not require the use of the whip antenna, however, when reception in the short wave ranges is desired, clearance for the whip antenna must be provided as the antenna should be fully extended for maximum performance.

POWER SQURCE - Two types of power sources may be used to operate the receiver. The receiver may be operating directly from a 115 V. AC or DC wall outlet or from the battery pack carried inside the carrying case.

AGINCO operation - The receiver will operate from a 100-125 voit, 60 cycle AC (Alternating current) or 100-125 voit (DC (Direct current) outcome. Power consumption is approximately, 25 watts. If you are in doubt or unfamiliar with the voltage and frequency temperature of the constraint of the contract of the contract

Battery Operation - To operate the receiver from the battery supply, select one of the battery types shown on the label in the battery compartment or listed under SERVICE on the last page of this book. The batteries have been selected both for overall size and the type of power receptatele,

Open the battery compartment cover, remove the battery holddown strap acrew and night be battery pack into the compartment. Paste the battery strap securely with the screw and plug the receivers' in battery connector tato the battery receptacle. Begge the receivers will operate from battery power, the line cord plug must be inserted tool the outlet receptacle on the chassis of the receiver. Store the line cord in its compartment and close the cover, and the contract of the contract of the contract of the cover of the contract of the cover of the

RNING

Do not store the receiver with the battery in place. Remove the battery and store it separately if necessary. Batteries deteriorate upon standing for long periods of time and damage the finish of certain components used in the construction of radio equipment.

ANTENNA - Built-in antenna facilities are available for normal receiving conditions. For broadcast band reception (Band 1) a built-in loop is used, for short wave reception (Bande 2, 2 and 4) a telescoping whip antenna is extended fall length from the frost panel. Where receiving conditions require more signal pickup than available from the foot panel. Where receiving conditions require more signal pickup than available from either the loop or whip antenna, a length of wire may be added to the short length use and convenient in the loop of the properties of the short length was any convenient length.

HEADSET CONNECTION - A standard two circuit headset jack, located at the front

panel is provided for headest reception. Any headest having a working impedance of 500 to 2,000 ohms may be used successfully with this receiver. Inserting the headest plug into the jack automatically silences the speaker. The headest may be carried in the battery compartment if desired.

OPERATION WARNING

When operating from the battery source make sure the ON-OFF/VOLUME control is turned fully to the left until the switch clicks when turning off the receiver. This is important in a battery-operated radio because there is no dial light or characteristic background noise or hum to indicate that the radio is operating.

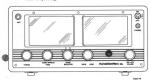


Fig. 3. Location of controls

GENERAL BROADCAST RECEPTION - For regular broadcast entertainment purposes.

set the BADO SILECTOR at 1, the VOICE CODE control at VOICE and the SAD, while OFF.

There has been received in the OSC OFF. VOICE CODE control at VOICE and the SAD, while of the OSC OFF.

The OSC OFF. THE OSC OFF

If the receiver is operated in an area blanketed by heavy static or noise, setting the ANL switch at ON will generally reduce this unwanted background.

SHORT WAYE RECEPTION. Pladio telephone or voice reception is the short wave doe in a accomplished an described node for general beauticant reception except that from the dial scale corresponding to the setting of the band selector knob. Any section or narrow range of Propulsation may be regarded only lunging the stations with the state of the section of the section of the section of the section of the bandspread pointer in set at 100. For code reception set the VGCE/CODE control to CODE and tune for the descripe plate when taking in the station. As described above,

SERVICE

TUBE REPLACEMENT - The tube types and their relative position in the receiver are shown in Fig. 4. When inserting missiature tubes, incur the sense small pins before pushing straight down to seat the base of the tube on the socket. Handle all tubes with care as they are considered frazile and do not tolerate much mechanical abuse.

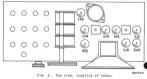
pushing straight down to seat the base of the tube on the socket. Handle all tubes with care as they are considered fragile and do not tolerate much mechanical abuse. BATTERY REPLACEMENT - The following battery list covers the various makes and their type or types which may be used in the Model 3-72 receiver. Refer to the section

INSTALLATION for installation details.

REPLACEMENT RATTERY LIST

Manufacturer	Type No.	Manufacturer	Type No.
BRIGHT STAR	66-50	OLIN	0615 0614
BURGESS	F6A60	RAY-O-VAC	AB878
DELCO	8760	RC A	AB994
EVEREADY	754		VS019
GENERAL		SEARS ROEBUCK	
	60A6F65	USALITE	680
MONTGOMERY WARD	62A35M 62A33	WESTERN-WIZARD	3B6470 3B6460
NATIONAL UNION	N808	WILLARD	60B6F6/5

NOTE - Only one battery pack of the types listed above is required.



SERVICE OR OPERATING QUESTIONS - For further details regarding operation or

servicing of the receiver, contact your dealer directly. Make no shipments directly to the factory before first writing for authorization and instructions. The factory cannot accept responsibility for unauthorized shipments.

NOTES

Generalvertretung für die Schweiz!



Warranty

This product is surrenated to be free from defective material or pure, and it is appresed to furnish a new part in exchange for any part of this units which under narreal installation, use and service disclosus such delect, provided the unit is delibered by the source to the authorized radio dealer or wholesaker from whom parchased, the state of the intest of the state of the state of the state of the state of the nineary days from the date of sale to original purchaser and provided that such examination disclosus that it is thus defective.

This warranty does not extend to my radio products which have been subjected to misuse, neglect, occident, incorrect wiring not our own, improper installation, or to use in violation of instructions farsished by us, nor extend to units which have been required or altered outside of our authorities facilitate, were causes where the serial number thereof has been removed, defected or changed, nor to accessives used thereaith not of our own manafecture.

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