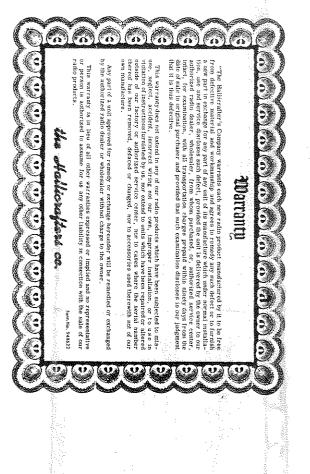
SERVICE OR OPERATING QUESTIONS

ciently at a nominal charge. All Hallicrafters Authorized Service Centers display the sign shown at the right. For the location of the one nearest you, consult your dealer or telephone directory. quired service will be performed promptly and effisystem of authorized service centers where, any reor servicing of your unit, contact your Hallicrafters dealer. The Hallicrafters Co. maintains an extensive For any further information regarding operation

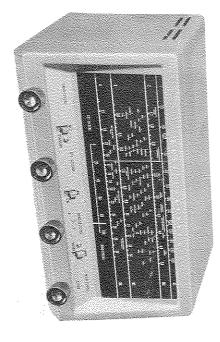
of making revisions in current production of equipment, and assumes no obligation to incorporate these revisions in earlier models. The Hallicrafters Company reserves the privilege



92 X 1401-



Owner's Guide MODEL S-38E-EB-EM



latest type superheterodyne circuit and provides for reception of AM (voice) and CW (code) signals over its entire tuning range. Special features in your receiver include an electrical you the finest in world-wide radio reception. You'll hear foreign and domestic shortwave broadcasts, amateurs, police, aircraft, ships, and countless other exciting distant stations adjustment of the tuning controls as well as the proper selection and arrangement of the noise or background hiss. These undestrable effects can be held to a minimum by careful necessary to receive weak and distant stations. Careless operation may result in excess receiver without turning it off. Your receiver has an unusually high degree of sensitivity operation, and a receive-standby switch on the front panel that permits you to silence the trol, a powerful built-in Alnico V permanent magnet speaker, provisions for headphone bandspread dial for fine tuning of the amateur and shortwave bands, an AM/CW ratio con-.. as well as all your favorite programs on standard broadcast. The receiver employs the Your new Hallicrafters Receiver tunes from 540 kilocycles to 31 megacycles to bring

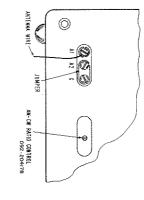
POWER SOURCE

The receiver is designed to operate on 105 to 125 volt 50/60 cycle, AC, or DC current. It may also be operated on 210 to 250 volt AC/DC current using Line Cord Adapter 087-201566, available as an accessory from your Hallicrafters dealer. Power consumption is 30 watts.

HEADPHONES

Connections are provided at the rear of the receiver for connecting headphones. Any commercial headphones ranging from 50 to 10,000 ohms may be used. For headphone operation, place the Speaker-Phone selector switch at "PHONE".

W. FIFTH AVENUE . CHICAGO 24, ILLINOIS



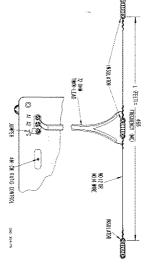


Fig. 1. Single-Wire Antenna

Fig. 2. Doublet Antenna Using Twin-Lead Transmission Line

SINGLE-WIRE ANTENNA

may be necessary. In some locations, reception may be improved by connecting a ground wire (ordinary copper wire) from terminal "G" to a cold water pipe or outside ground rod. While the use of an outside ground rod installed in accordance with insurance Underwriter's or where receiving conditions are exceptionally poor, an outside antenna 50 to 100 feet long with the 15-foot antenna wire included with the receiver. Simply attach one end of this wire to terminal "A1", connect the jumper link between "A2" and "G", and then run the mend an additional connection to the nearest cold water pipe to eliminate any shock hazard Laboratories requirements is adequate protection against lightning, we strongly recomwire about the room in any convenient manner (See Fig. 1). In steel constructed buildings in most localities, satisfactory results throughout the entire tuning range can be obtained

HALF-WAVE DOUBLET ANTENNA

mined by the following formula: frequency or band of frequencies. The overall length in feet of a doublet antenna is deterrecommended. The doublet antenna should be cut to the proper length for the most used wave doublet or other type of tuned antenna employing a 52 to 600 ohm transmission line is For top performance, especially on the shortwave and amateur bands, the use of a half-

line leads together and connecting them to terminal "A1". should be connected between terminals "A2" and "G". right angles to the desired station. When a transmission line such as "twin lead" or a twisted pair is used, the transmission line connects to terminals "A1" and "A2", and the jumper link between "A2" and "G" is disconnected (See Fig. 2). The doublet antenna provides optimum performance only at the frequency for which it is cut. Therefore, it may be desirable for reception on frequencies remote from the antenna frequency to utilize the antenna as a single wire type. This is accomplished by connecting the two transmission For maximum signal pickup, the doublet antenna should be erected with its length at The jumper link in this case

cycles to indicate the two official civil defense frequencies. shortwave bands are marked 2, 3, and 4. The reading on these bands are in megacycles. to kilocycles simply add one zero. For example: 70 on the dial is 700 kilocycles. The tune to either of these two frequencies for official civil defense news, instructions, and The standard broadcast band is marked with a "CD" emblem and a dot at 640 and 1240 kilo-The top dial scale is the standard broadcast band. To convert the readings on this band In a civil defense emergency,

RECEIVE-STANDBY SWITCH

reception at any time, This switch is normally set at "RECEIVE". When set at "STANDBY", the receiver silenced but the tubes remain at operating temperature for instant use. To resume exeption at any time, simply return the switch to "RECEIVE" position.

AM-CW SWITCH

if you wish to hear code signals. Set this switch at "AM" to listen to voice or musical broadcasts. Set it at "CW" only

BAND SELECTOR CONTROL

spond to the band numbers at the left side of the dial Set this control for the band you wish to tune. The four positions of this control corre-

OFF-VOLUME CONTROL

up, as the receiver will operate ONLY with the plug in one position. When operating on AC the power plug in the wall outlet if the receiver does not operate after the one minute warm about one minute for the tubes to warm up. When operating on DC (direct current), reverse (alternating current), try reversing the power plug for minimum hum after the receiver is Turn this control clockwise to turn the receiver on and to increase volume. until a click is heard. To turn the receiver off, simply rotate the Off-Volume control fully counter-

TUNING AND BANDSPREAD CONTROLS

for the desired level after the station has been tuned in. For CW (code) reception, adjust the Tuning control for the desired pitch when tuning in the station. The dial readings will correspond to the station frequencies only if the Bandspread dial pointer is set at "O". the Tuning control to the desired station. When trying to locate weak distant stations, Wide tuning is performed with the Tuning control and fine tuning with the Bandspread control. To tune the receiver, set the Bandspread dial politicar "O" and then slowly turn is suggested that the Off-Volume control be initially set near maximum and then readjusted

frequencies, and then tune through the range with the Bandspread control. Turning the Bandspread control from "O" to "100" tunes the receiver progressively lower in frequency. tune through a range of frequencies, such as the amateur bands. signal is loudest and clearest. The second method of tuning is used when it is desired to "rocking" the Bandspread control (turning it a few degrees to the left and right) until the signal is located with the Tuning control, and finally the signal is accurately tuned in by signal with precision accuracy. The Bandspread dial pointer is set at about "5", then the different ways. The first method of tuning is used when it is desired to tune in a single accurately tune in stations on crowded bands by spreading them out. It may be used in two pointer at "O", The Bandspread control is an electrical fine tuning adjustment which permits you to set the Tuning control for the high end of the selected band or range of Set the bandspread dial

2

operator for personal preference as well as for the intended use of the receiver Your receiver has a provision on the rear panel for setting the AM-CW ratio (See Fig. This adjustment is pre-set at the factory, but may be easily reset at any time by the

complishment, advance the control slightly beyond this point and the adjustment is comratio control clockwise until the CW signal is heard as clear audio tone. Then place the AM-CW switch on the front panel to the "CW" position and rotate the AM-CW Turn the AM-CW ratio control on the rear panel to its complete counterclockwise position. in the "RECEIVE" and "AM" positions, and on Band 4, select a fairly strong CW signal The AM-CW ratioadjustment procedure is as follows: With the receiver turned on and With this ac-