

4. TUNING DIAL

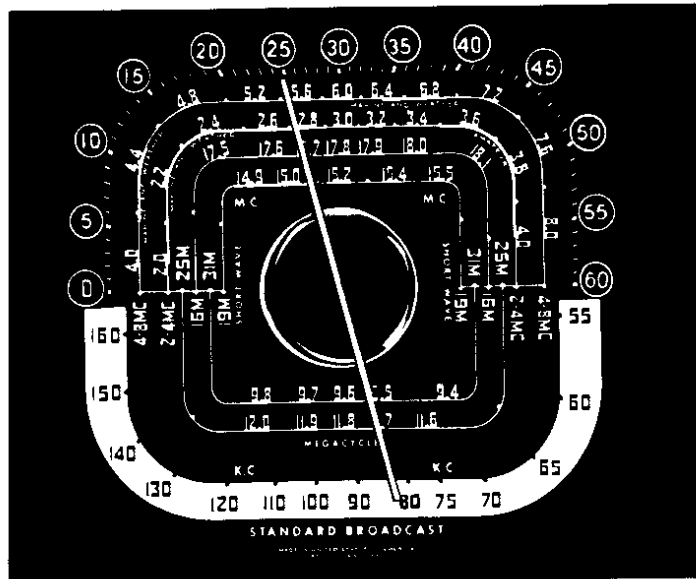


Figure 6.—Dial Scale.

(See Figure 6.) Study the dial carefully. The broadcast band is calibrated in kilocycles with the zeros deleted for convenience. This is the white bottom scale indicated by the lower half of the pointer. The short-wave bands are spread and calibrated in megacycles, four are located on the upper half of the dial scale and two in the lower half. Read with the upper half or lower half of the pointer whichever the case may be.

THE SEVEN BAND RANGES ARE:

BAND	METERS	MEGACYCLES	KILOCYCLES
1 Standard Broadcast	555M to 188M	.54Mc to 1.6Mc	540Kc to 1600Kc
2 Weather Band	75M to 38M	4Mc to 8Mc	4000Kc to 8000Kc
3 Weather Band	150M to 75M	2Mc to 4Mc	2000Kc to 4000Kc
4 Short Wave	16M	17.5Mc to 18.1Mc	17500Kc to 18100Kc
5 Short Wave	19M	14.9Mc to 15.5Mc	14900Kc to 15500Kc
6 Short Wave	25M	11.6Mc to 12.0Mc	11600Kc to 12000Kc
7 Short Wave	31M	9.4Mc to 9.8Mc	9400Kc to 9800Kc

(M indicates Meters; Kc indicates Kilocycles; Mc indicates Megacycles.)

5. CONTINUOUS COVERAGE BANDS

This portable has continuous coverage from 2 to 4 megacycles (150 to 75 meters) and 4 to 8 megacycles (75 to 38 meters).

The continuous coverage band can be used by sportsmen, yachtsmen and others operating boats in the Great Lakes, Pacific Coast, Atlantic Coast, Gulf of Mexico and Caribbean Sea areas. By tuning to the proper frequency at the scheduled time as listed in the Weather Broadcast Schedule (Weather Broadcast Schedules are in the back portion of this book) they will be able to obtain exact up-to-the-minute as well as predicted weather reports for the areas in which they are operating. These weather reports are vitally important in continuing or plan-

ning a cruise in either the inland or off-shore waters of continental U.S.A.

The 4 to 8 megacycle continuous coverage band also includes the 49 meter, 6.0 Mc to 6.2 Mc International Short Wave Band.

6. SPLIT-SECOND SCALE

This feature is provided in the upper outer edge of the dial face to assure ease and accuracy in logging and relocating the foreign stations. Example: A station heard at 9.55 megacycles would be logged at 9.5 on the tuning band plus the number of seconds occurring on the split-second scale, which in this case would be 24 seconds (i. e.: 9.5 + 24).

7. RADIORGAN

The tonal characteristics of the receiver may be regulated to the listeners preference by means of the four tone buttons below the dial. The combination of these four buttons in either of their two positions offers 16 possible tonal combinations. The portion of the tonal range is shown above each button.

8. HEADPHONES

In trains, dormitories, hospitals or schools, etc., it may be necessary to operate the receiver without disturbing nearby persons. The use of headphones is especially helpful for airplane travel. Special low impedance Zenith Headphone Kit, part number S-18631, available through your Zenith dealer, is easily adaptable to the chassis of the receiver. To connect these headphones place the earphone plug into the socket provided. (See Figure 7.) Plugging the headphones into the earphone jack automatically disconnects the speaker.

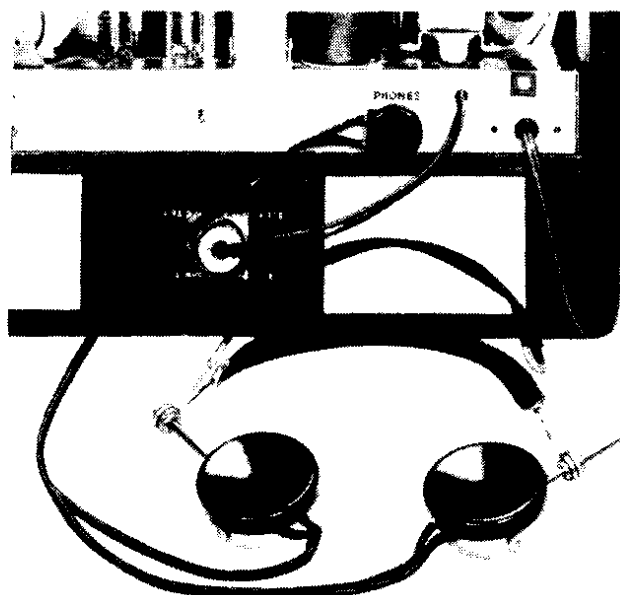


Figure 7.—Headphones Connected to Receiver.

9. TUBE COMPLEMENT

TUBE TYPE	USE
1 1U4	RF Amplifier
1 1L6	Converter
1 1U4	IF Amplifier
1 1U5	AVC, 2nd Detector and 1st Audio Amplifier
1 3V4	Power Amplifier

SELENIUM RECTIFIER

1 212-5	Rectifier
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See Figure 8 for location of tubes on chassis.

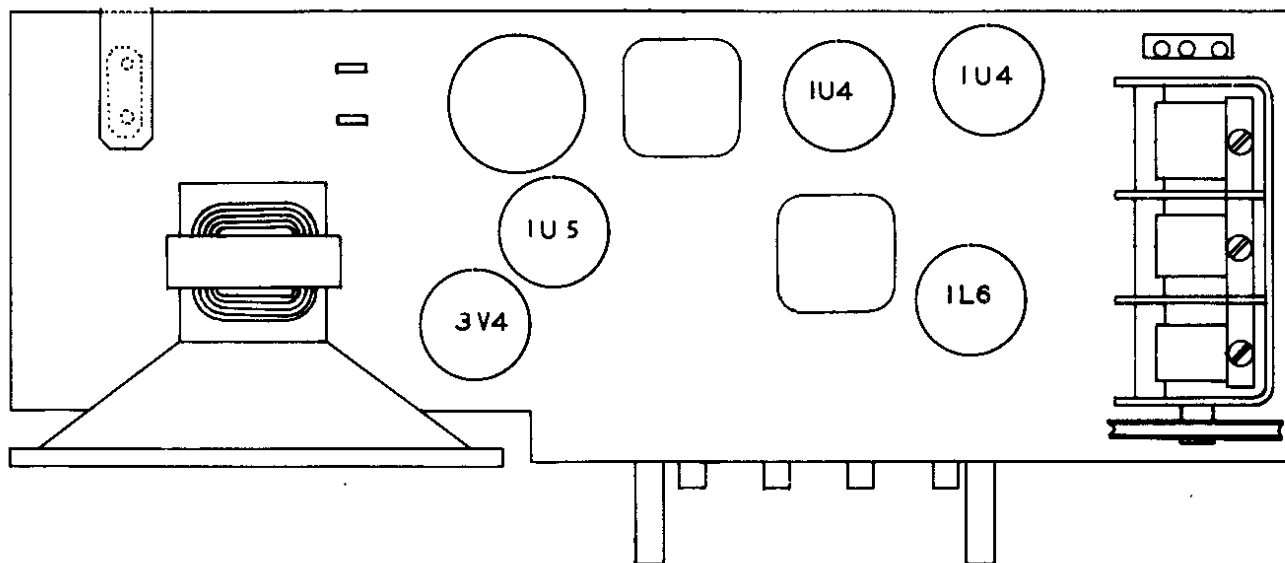


Figure 8.—Top View of Chassis Showing Tube Location.

10. STANDARD BROADCAST (Normal Conditions)

- A. Use the receiver with the antenna in position as shipped from the factory. It is not necessary to remove the Wavemagnet under normal conditions. A loop antenna is, naturally, directional. If reception of a station is not satisfactory, rotate the entire receiver for the position of greater signal and least interference. The directional property is also helpful in eliminating noises caused by local electrical devices.
- B. Press The Band Selector Button Marked Broadcast.
- C. Turn the set "On" with the left knob. Turn this control to a well advanced position and reset to the desired volume, after a station has been tuned in.
- D. Tune with the right hand knob and read the standard broadcast scale on the dial.
- E. Adjust RADIORGAN for desired tone.

- F. When hunting for distant broadcast or short-wave stations set the volume control knob to an advanced position. Turn it back to the desired level after a station has been tuned in.

11. STANDARD BROADCAST RECEPTION (Steel Structures)

- A. In steel structures and vehicles, remove the Broadcast Wavemagnet by turning off the thumb screws which hold the Wavemagnet in position on the inside of the front cover. Replace thumb screws to prevent their loss.
- B. Open back of the case, and remove the Wavemagnet extension cord and suction cups.
- C. Snap one end of the Wavemagnet extension cord on the broadcast Wavemagnet. Remove the plug already in the Wavemagnet socket, and place the plug on the other end of the Wavemagnet extension cord into this socket. (See Figure 9.) Snap the suction cups on the two remaining Wavemagnet snap buttons.

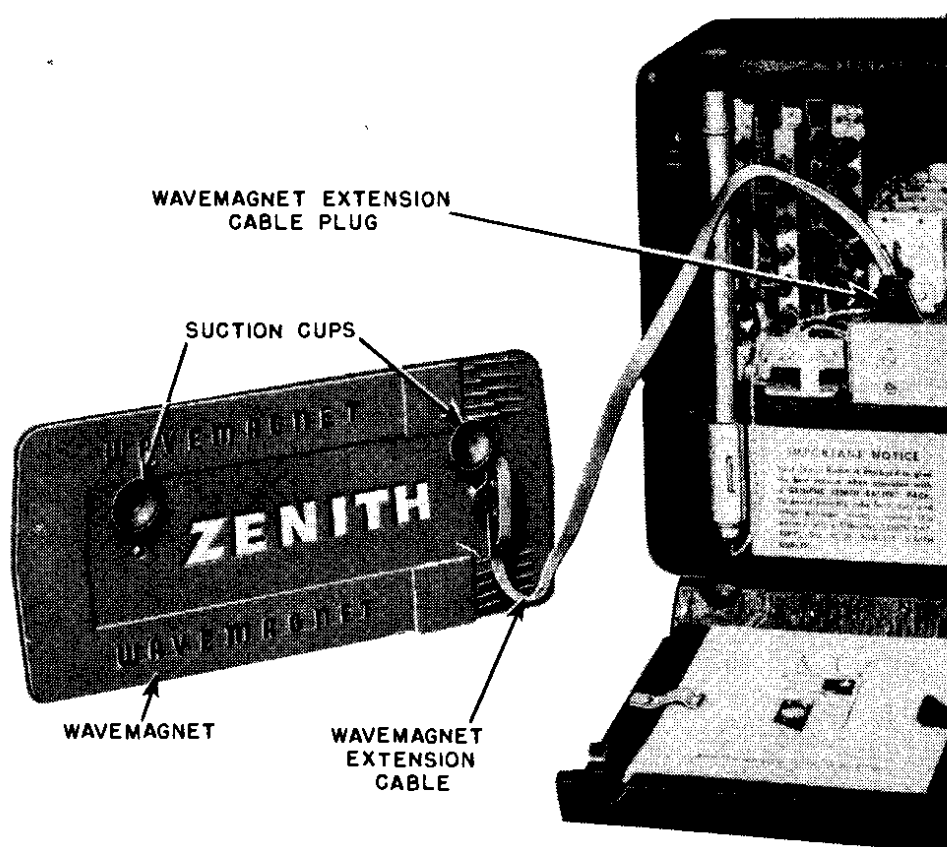


Figure 9.—Rear View of Receiver with the Wavemagnet Extension Cable Connected.

- D. Moisten the suction cups and apply the Broadcast Wavemagnet to a corner of a window. (See Figure 10.)
- E. Experiment with various positions on the window for best reception and minimum noise.

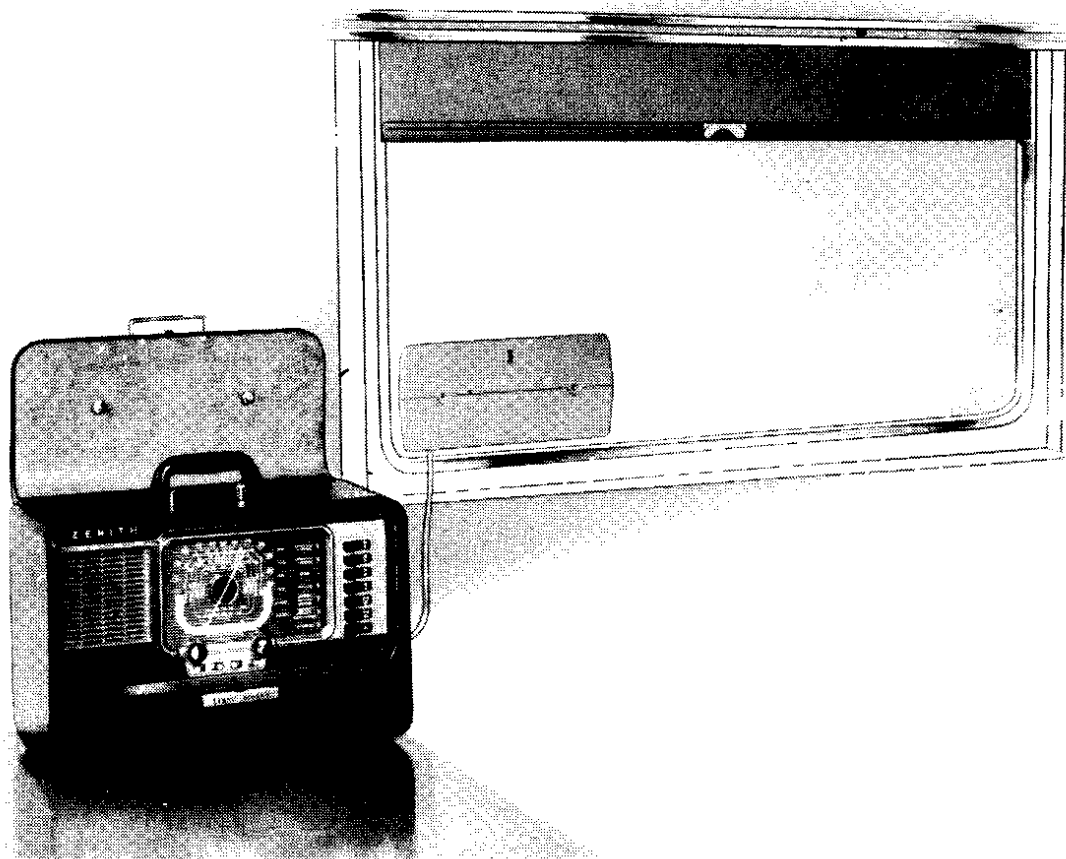
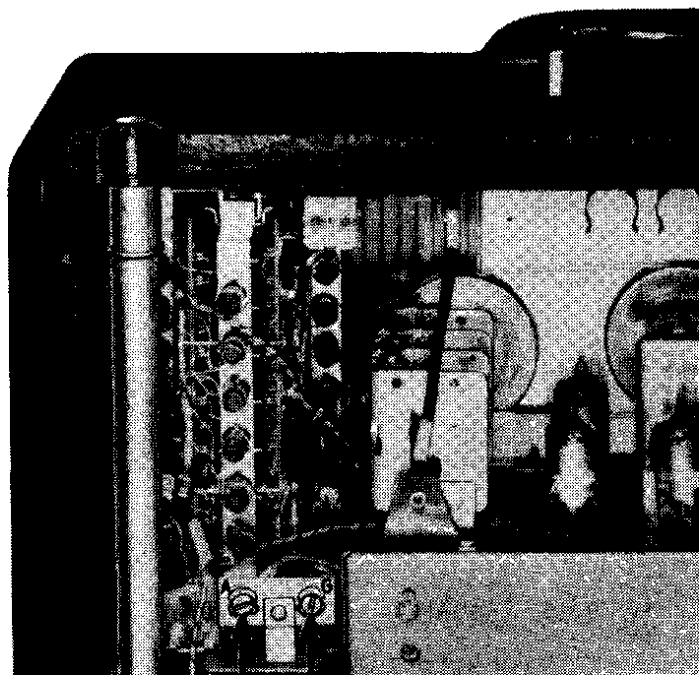


Figure 10.—Detachable Wavemagnet in Position on a Window Glass.

- F. Antenna and ground terminals have been provided in the left rear of the receiver chassis, to which an external antenna and ground may be connected. It is only necessary to use these external antenna and ground connections when the receiver is to be operated in areas with extremely low signal strengths where it is difficult to receive a desired signal on the standard Wavemagnet. (See Figure 11.)



ANTENNA AND GROUND TERMINALS

Figure 11.—Antenna and Ground Terminals.

12. SHORTWAVE RECEPTION

(Average Conditions)

- A. Raise cover to upright position.
- B. Turn Waverod button and extend the Waverod to its full length. (See Figure 12.)

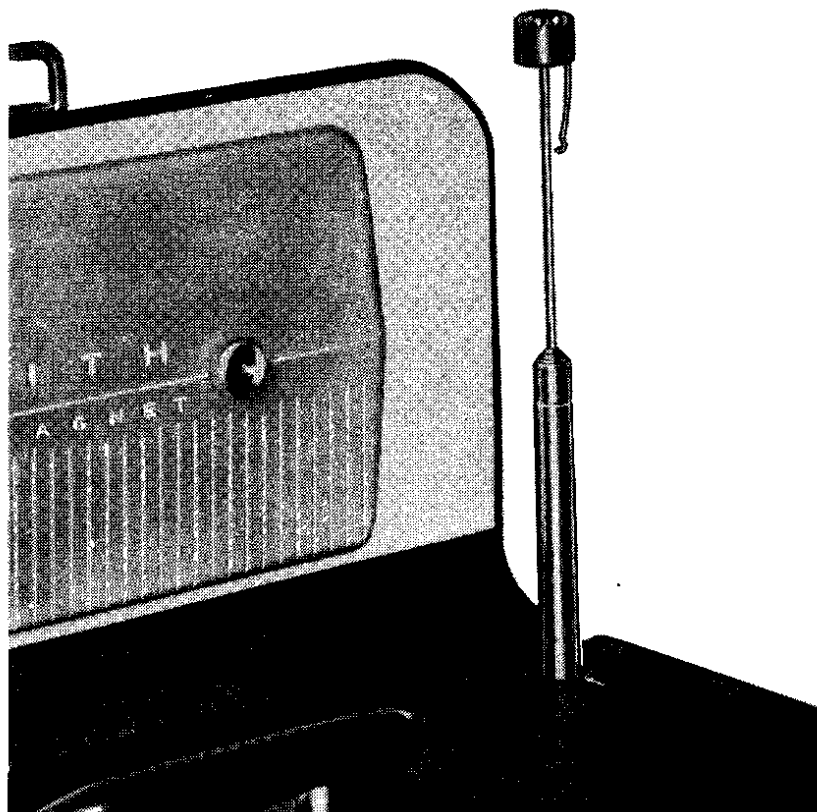


Figure 12.—Waverod Must Be Extended for Shortwave Reception.

- C. Press desired shortwave band selector button.
- D. Turn set "On" by rotating the left knob clockwise.
- E. Tune the set with the right knob, tune very slowly, and read dial scale according to band button.

13. SHORTWAVE RECEPTION

(On 2 to 8 megacycles continuous coverage marine bands, in areas with extremely low signal strength)

- A. An antenna and ground terminal have been provided in the left rear of the receiver chassis, (See Figure 11), to which an external antenna and ground may be connected. It is only necessary to use these external antenna and ground connections when the receiver is to be operated in areas with extremely low signal strength where it is difficult to receive a desired signal on the standard Waverod.