



FIGURE 25. INSTALLING AN ANTENNA

## OPERATING INSTRUCTIONS

You will gain the greatest pleasure from your receiver if you understand the full possibilities of this fine instrument. Those familiar with communications equipment will quickly recognize the added range and selectivity provided by this highly sensitive receiver. However, even the experienced operator will profit from a careful reading of the section on the use of the Q-Multiplier, since considerable skill and experience are required to fully realize the extra refinements afforded by these circuits.

For the new short wave listener, we suggest that these instructions be followed closely. The extra care used in tuning will be well rewarded by bringing in many distant (DX) stations. The section on the best time for shortwave listening will also be very helpful.

## CONTROLS AND THEIR FUNCTIONS

**ANTENNA:** Matches the RF tuned circuit to the antenna, when there is a major change of frequency.

**MAIN TUNING:** (Tuning knob on your left, as you face the receiver). Adjust the main tuning knob for the best dial setting for your station.

**BANDSPREAD:** (To the right of MAIN TUNING) For fine tuning. Use to get the exact tuning for your station, especially for weak or distant stations. The five scales on this dial are calibrated for Amateur bands 80-10 meters.

**CAUTION: MUST BE TURNED FULLY CLOCKWISE WHEN USING THE MAIN TUNING DIAL. OTHERWISE MAIN DIAL CALIBRATIONS WILL BE INACCURATE.**

**OFF-STBY-RCV-CAL:** Turns the receiver on and off. Always in the RCV (Receive) position for listening. Should always be turned to OFF when you are through using the receiver. STBY (Standby) position silences the receiver, but keeps the tubes warm, ready for instant use. CAL (Calibration) position is used only with an accessory crystal calibrator, to check dial calibrations.

**QX SELECTIVITY:** Sharpens the selectivity of the receiver. Use only as described in Q-Multiplier operating instructions.

**PEAK-OFF-NUL:** Switches the Q-Multiplier circuits to PEAK (accentuate) or NUL (cancel out). In OFF position QX SELECTIVITY and QX TUNE are switched out of the circuit.

**BFO-MVC-AVC-ANL:** Selects the mode of operation of the receiver. BFO position is for CW (code and single sideband reception) only. MVC, AVC and ANL are for voice or music listening. AVC (automatic volume control) is the normal position.

**MVC** (manual volume control) switches out the AVC circuit. Experienced operators will use this position when necessary. ANL (automatic noise limiter) is used only for unusually noisy conditions.