

2.1.2 Noise Interference

There are several kinds of noise interfering you may encounter in Base station operation. Some of these noise sources are; fluorescent buzz, nearby commercial broadcast, electrical appliance, lawnmower and electrical storms. Commercial products are available to reduce interference from these sources. Consult your dealer or professional amateur radio supply shops.

2.1.3 Antennas

Antennas are purchased separately and include installation instructions. Numerous type of antennas are available that range from emphasis on ease of installation to emphasis on performance. Often the difference in performance between many of the antenna is modest.

(1) **VERTICAL GROUND PLANE ANTENNAS:** These are omnidirectional antennas that provide optimum performance for contacting other fixed stations using vertical type antennas in addition to all mobile stations. For medium long range communications work.

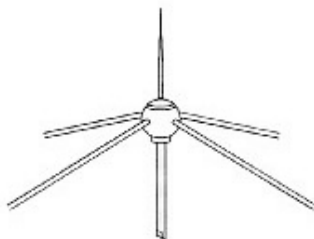


FIGURE 2.1 Ground Plane

(2) **DIRECTIONAL BEAM ANTENNAS:** Highly efficient and directional antennas generally intended for fixed-to-fixed very long range communications.

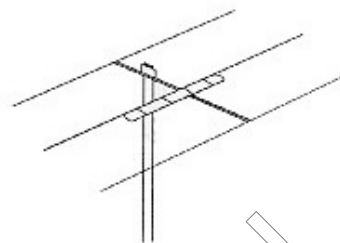


FIGURE 2.2 Directional Beam Antenna

2.1.4 Remote Speaker

The external speaker jack (EXT. SP) on the rear panel is used for remote receiver monitoring. The external speaker should have 8 Ohms impedance and be able to handle at least 3 Watts. When the external speaker is plugged in, the internal speaker is disconnected.

NOTE

The PHONE jack on the front panel overrides both external and internal speakers. When the plug from a headphone is plugged to the PHONE jack, both internal and external speakers are silenced simultaneously.

2.1.5 Public Address

An external 8 Ohm; 3 Watt speaker must be connected to the PA jack located on the rear panel when the transceiver is used as a public address system. The speaker should be directed away from the microphone to prevent acoustic feedback. Physical separation or isolation of the microphone and speaker is important when operating the PA at high output levels.