

CHAPTER 4 INSTALLATION

INSTALLING THE RADIO

Choose a location close to an AC power outlet and convenient for running the antenna lead-in cable. This transceiver is attached with the AC power cord set. Proceed as follows to complete all necessary connections to the transceiver :

1. Your transceiver has a standard antenna connector type, SO-239 located on the rear panel for easy connection to the standard PL-259 coax plugs. If the coax antenna cable must be made longer, use only enough coax cable to suit your needs with impedance of 50 ohms, frequency range from 26.965 to 27.405 MHz. This will insure proper impedance match and maximum power transfer from the transmitter to the antenna.
2. Use 110V (220V) AC power for the base station.

IGNITION NOISE INTERFERENCE

There are several kind of noise interference you may encounter in base station operation. Some of these noise come from fluorescent buzz, electrical appliance, lawnmower, nearby commercial broadcast etc. Commercial products are available to reduce interference from these sources. Consult your dealer or professional amateur radio supplier.

ANTENNA

For best transmission and reception, your transceiver should use an antenna especially designed for a frequency of 27 MHz. Antenna is to be purchased separately and it comes with the installation instructions. Numerous type of antennas are available. Some emphasize on ease of installation while other emphasize on performance. Often the difference in performance for these antennas is modest.

1. Vertical Ground Plane Antenna

This is an omnidirectional antenna that provide optimum performance for contacting other fixed stations using vertical type of antenna in addition to all mobile stations. For medium range of communication work. It is suitable for medium range of communications.

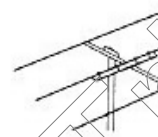
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Ground Plane

2. Directional Beam Antenna

This is a highly efficient and directional antenna, generally intended for fixed-to-fixed long range communications.



Directional Beam Antenna

EXTERNAL SPEAKER

This radio is equipped with a jack for an external speaker. This jack is in the rear of the radio and is labeled "EXT. SP.". Only use a speaker that can handle 4 watts, 8 ohms of impedance. The internal speaker will not work if an external speaker is connected to the radio.

PHONE JACK

This PHONE jack accepts headphone of 4 to 32 ohms impedance. When a headphone is plugged into this jack, both internal and external speakers are silenced simultaneously.

PUBLIC ADDRESS

To use the Public Address (PA) function, first connect an external speaker to the PA. SP. jack on the rear of the radio. See the above specifications for a proper external speaker. Keep the speaker away from the microphone to avoid acoustic feedback.

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