

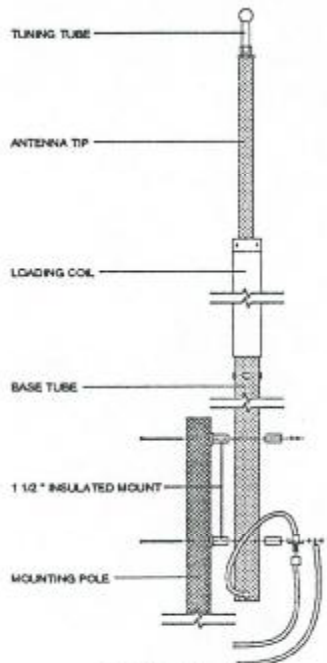
Technical Bulletin

No: 706 – Installing a Free Radiating AM Antenna System

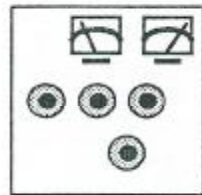
Radio Systems provides a complete package of equipment and accessories to simplify the installation process

In planning your work the follow items should be considered:

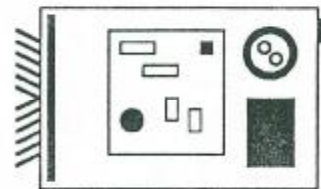
- **The Transmitter and Antenna Coupler** should be located indoors as close the antenna as possible. Connection from the studio to the transmitter is via a single pair audio line which may be as long as needed and installed by the user or via leased phone line.
- **Frequencies above 1500 kHz** on the AM Band are highly recommended for station operation as the antenna radiates much more efficiently at the upper end of the band. An existing carrier station which operates at a lower frequency should seriously consider changing to a new frequency to enjoy this superior performance.
- **A Roof Mount Antenna Installation** is recommended for it's convenience and resister to tampering. However, the building **must** have a metal girder superstructure or other excellent ground system and a firm connection between this ground and the antenna must be made. The antenna will not work without a good ground connection.
- **Ground-level Antenna Installations** may be made, but they require an area approximately 20 x 10 feet square and the installation of an underground network of ground radial wires to operate.



AT Series Antenna



Antenna Coupling Unit



TR-20 Transmitter



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