

## Cellular Mount Installation Considerations Magnet Mount, Superband<sup>®</sup>, UHF Antennas

### MGNT-SB-UHF

#### VERIFY:

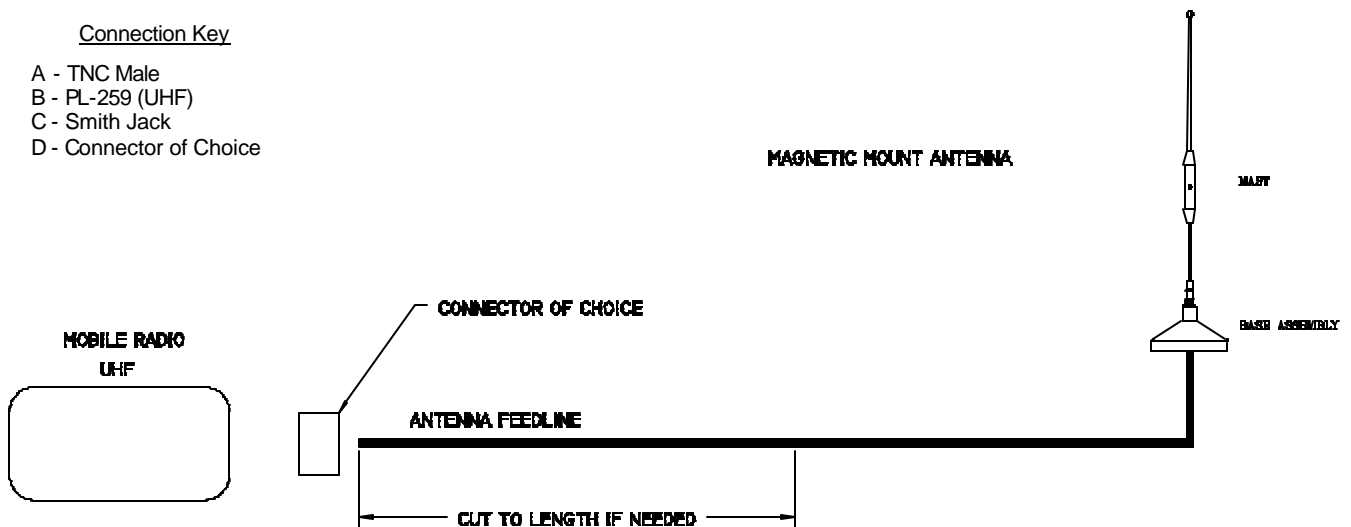
1. **Part List:** The package includes an antenna that is attached to cable, and connector for the two way-radio. Use only the components supplied with the antenna.
2. **Bandwidth:** UHF Superband<sup>®</sup> antennas are 125 MHz wide and are designed to operate between 400 MHz to 525 MHz unless otherwise specified. Be certain that the antenna was tuned to the frequency required.

#### INSTALLATION:

1. **Placement:** Select the flattest surface in center of the roof or trunk lid.  
*Note: If the area is convex a rocking motion will be encountered. A concave surface will reduce the magnets holding power affecting the quality of the antennas "RF" ground. Keep in mind that some vehicles will have aluminum or composite trunk lids.*
2. **Run Cable:** Route coaxial cable toward the two-way radio see the Magnetic Mount Antenna Diagram. Cable will normally not be damaged by opening and closing the window or trunk.  
*Note: Be careful not to tear the sheath of cable when pulling through sharp body panels. If a hole appears in the cable's sheath, cover with several layers of a high quality electrical tape.*
3. **Electromagnetic interference:** Do not coil feedline or matching network cable. Fold the cable upon itself rather than coiling. Do not tape or secure any feedlines to data or vehicle cables during installation.

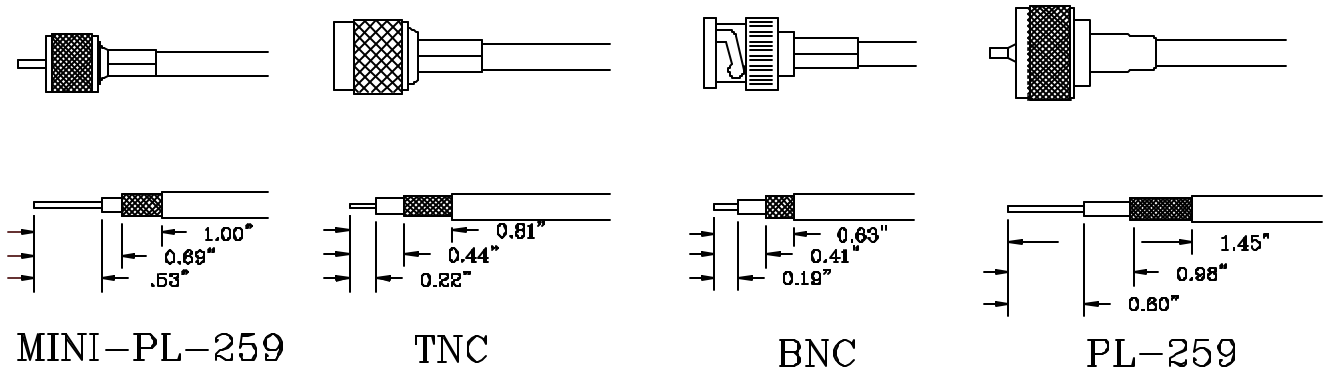
#### Connection Key

- A - TNC Male
- B - PL-259 (UHF)
- C - Smith Jack
- D - Connector of Choice



Magnetic Mount Antenna Diagram

4. **Cable Cutting:** If desired, cut the feedline cable to the length required to reach the transmitter.
5. **Install Connectors:** Refer to the Cable Stripping Dimensions drawing (Drawing is not to scale).



### Cable Stripping Dimensions

#### TESTING:

Installation testing, if required, must take place at the transmitter side of the feedline. Make sure all doors, hood, and trunk are closed.

1. **Reflective Power:** A measurement of reflective power using a wattmeter, you can expect up to 11% reflected power. When results are greater than 11%, reposition antenna.
2. **SWR:** A measurement of SWR (standing wave ratio) will yield better than 2:1. If greater than 2:1, reposition antenna.
3. **Continuity:** A test of continuity between the center pin and ground, for this antenna will show as an open.

**CAUTION:** *The mast must be removed at knurled section before entering a car wash.*