

Cellular Mount Installation Considerations Roof Mount, Superband ®, VHF Antennas

ROOF-SB-VHF

Patent 5771026

VERIFY:

1. **Part List:** The package includes antenna with cable, connector and hardware. (See attached drawing)
Use only the components supplied with the antenna. I.e. mast and cables
2. **Bandwidth:** VHF Superband ® antennas are 24 MHz wide, within the range of 150-174 MHz. Extended tuning ranges are available. Be certain that the antenna was tuned to the frequency required.

INSTALLATION:

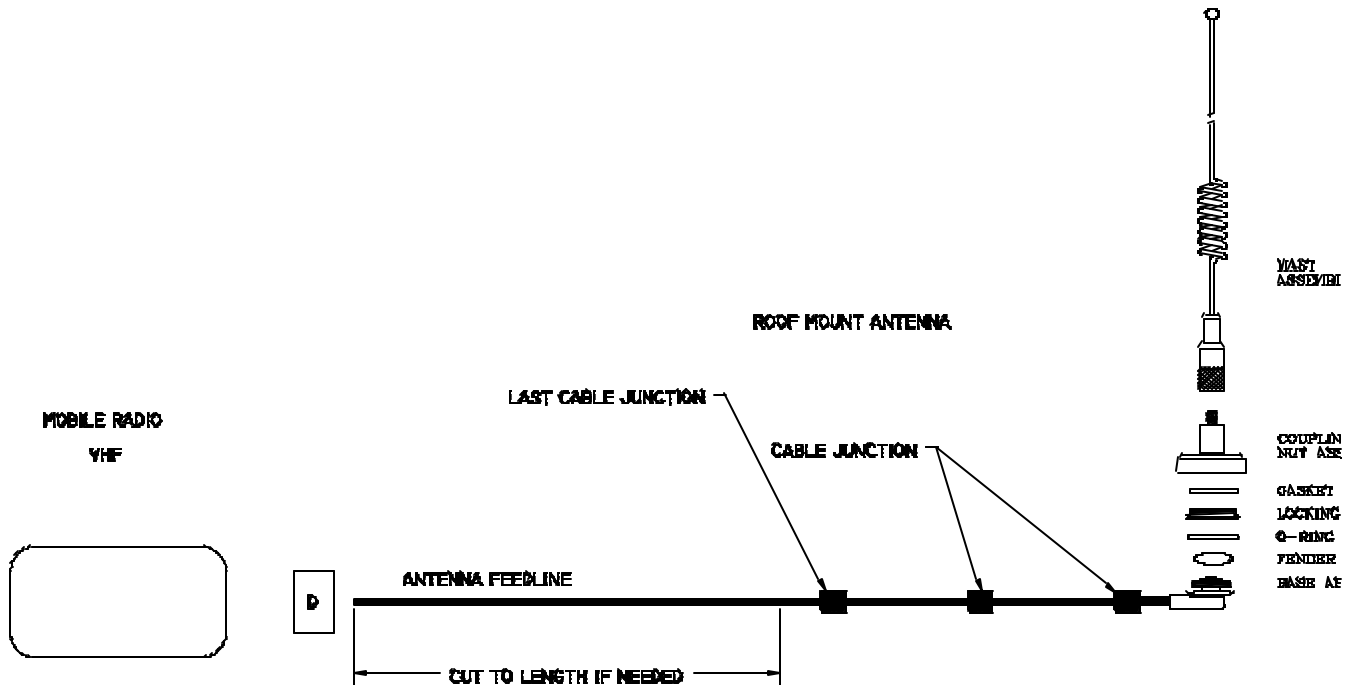
Placement:

1. Select a desired location for the antenna; it may be mounted on roof or trunk lid. When mounting antenna on the roof, remember to allow room for the feedline.

Note: Keep in mind that some vehicles will have aluminum or composite trunk lids.

2. Drill 3/4" hole. Remove any burrs above and below the hole.

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.



Roof Mount Antenna Installation Diagram

Install:

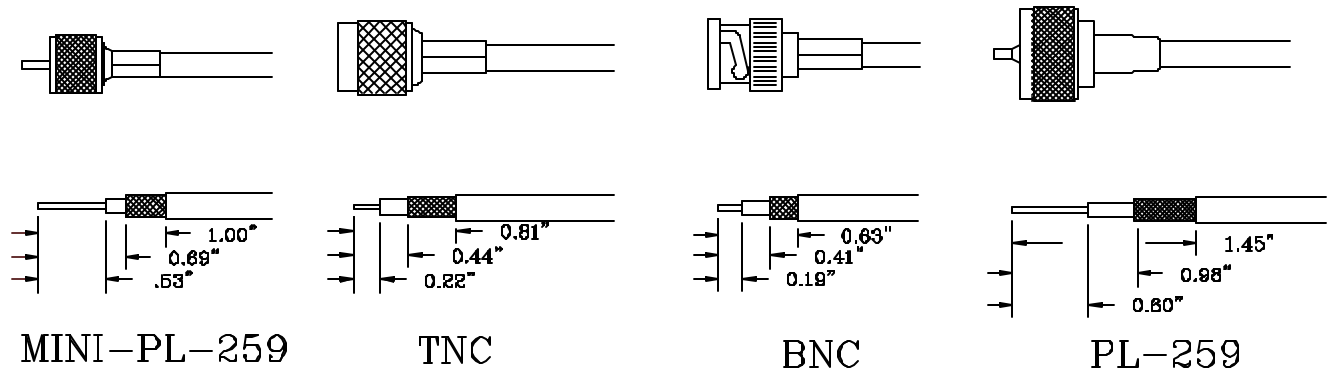
1. Insert RF cable through the hole from outside of vehicle.
2. Tilt the antenna base slightly and insert into mounting hole.
3. Thread the locking nut, with "O" ring seated in groove, onto base and tighten. Make sure mounting base is centered and shoulder is seated properly. Locking nut must compress "O" ring and contact with vehicle.
4. Assemble the remainder of the antenna as shown. Apply a small amount of silicone grease to spring loaded pin in base and the stud that the mast threads onto.

Cable Cutting:

The feedline cable may be cut only between the last cable junction and the transmitter (See the Roof Mount Antenna Installation Diagram). If desired, cut the feedline cable to the appropriate length required to reach the transmitter.

Install Connectors:

Refer to the Cable Stripping Dimensions (Drawing is not to scale).



Cable Stripping Dimensions

TESTING:

Installation testing must take place at the transmitter side of the feedline. This will ensure that the cable connectors and cables have the proper continuity. Make sure all the doors, the hood, and trunk are closed

Note: Some vehicles are sensitive to VHF frequencies. STI-CO suggests that you isolate feedlines and check for unwanted interference with the ignition switch on.

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%, recheck grounding.
2. **SWR:** A measurement of SWR (standing wave ratio) will yield better than 2:1. If greater than 2:1, recheck grounding.

CAUTION: The mast must be removed at the knurled portion of the mast assembly before entering a car wash.