



Flexi-whip Antenna Installation Considerations

Roof Mount, Field Tunable, with Flexible Mast, 136MHz - 1GHz / GPS

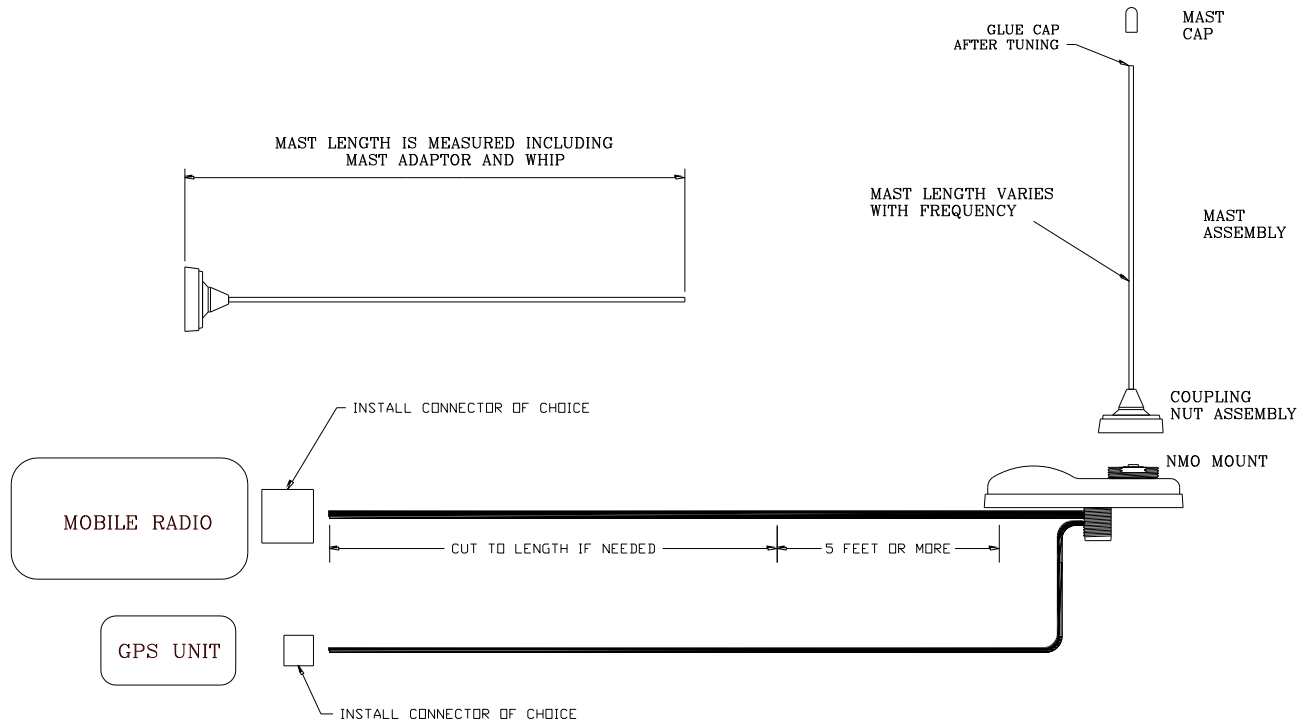
MODEL NUMBER: ROOF-DB-NITI/GPS

PLEASE VERIFY:

1. **Parts List:** This package consists of an antenna with attached cable, cap and a connector for the two-way radio. Use only the components supplied with the antenna system.
2. **Frequency and Bandwidth:** The frequency is determined by mast length. The bandwidth varies depending on the frequency. Please refer to cutting chart included.

INSTALLATION:

1. **Placement:** Select a desired location for the antenna on roof or trunk lid. When mounting antenna on the roof, remember to allow room for the feedline. Drill 3/4" hole. Remove any burrs above and below the hole. *Keep in mind that some vehicles may have composite trunk lids that will not provide a proper ground.*
2. **To install:** Insert RF cable through the hole from outside of vehicle. *Be careful not to tear the cable's sheath when pulling it through sharp body panels. If a hole appears in the sheath, cover it with several layers of a high quality electrical tape.*





3. **Assembly:** Assemble the remainder of the antenna as shown.
4. **Cable Cutting:** If preferred, cut the feedline cable to the length required to reach the transmitter leaving **a minimum of at least 5 feet attached to the antenna base** (See the Roof Mount Antenna diagram).
5. **Install Connectors:** Refer to Cable Stripping Dimensions diagram.
6. **Mast Cap:** If mast had to be cut to frequency in the field, STI-CO recommends using epoxy to secure the mast cap. Note: If the antenna has been cut to frequency in the factory the cap will already be epoxied.

TESTING:

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

1. **Reflected Power:** When measuring reflected power using a wattmeter, you can expect a maximum of 11%. If results are greater than 11%, recheck grounding.
2. **SWR:** A measurement of SWR (**S**tanding **W**ave **R**atio) should yield better than 2:1. If greater than 2:1, recheck grounding.
3. **Continuity:** A test of continuity between the center pin and ground for this antenna will show as an open. This will ensure that the cable connectors and cables have the proper continuity.