

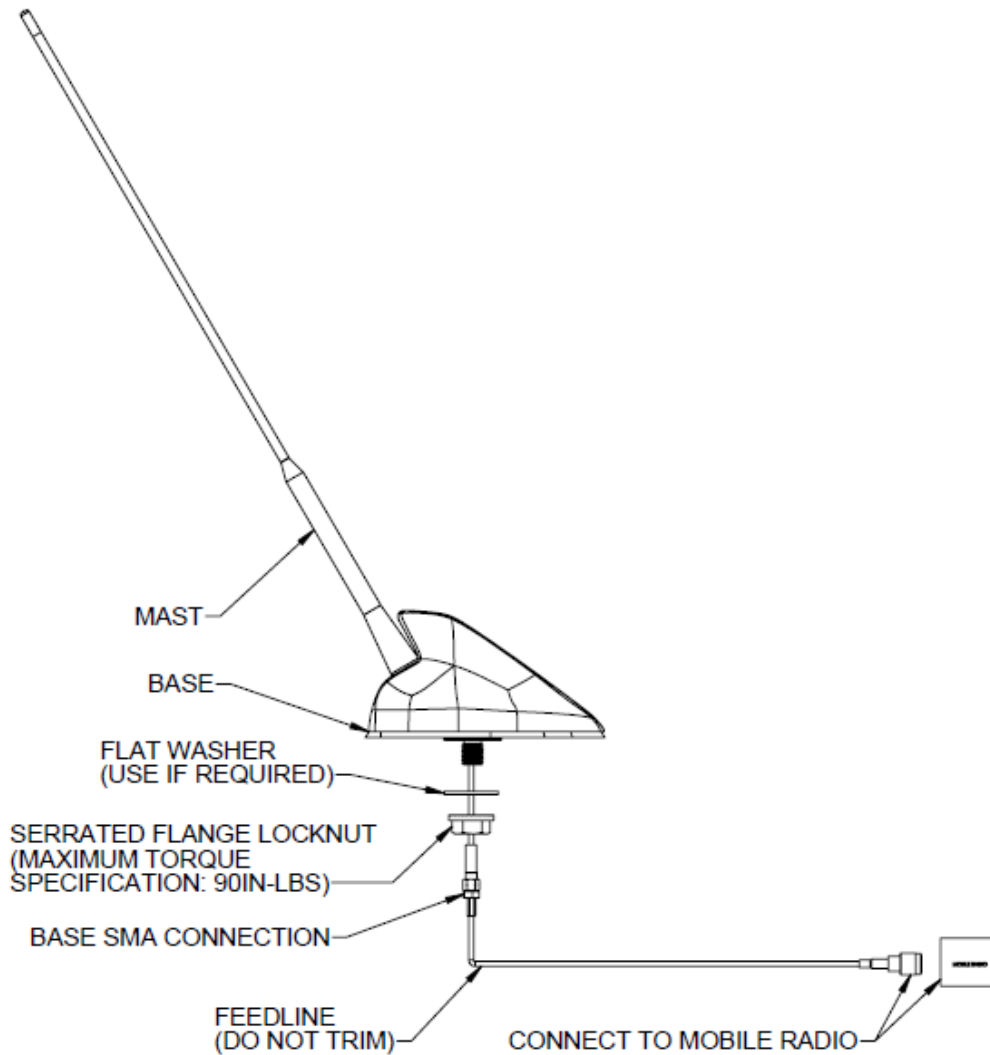


OEM Roof Mounted Installation Considerations

SKFN-TB-V/U/C-EAN-SP
(150-174/450-520/760-870 MHZ)

VERIFY:

Part List: The system package includes the radio antenna. The antenna consists of the external roof antenna base, mast, and a feedline/matching network. Use only components supplied with the antenna system.





INSTALLATION:

1. Procedure:

- a. Remove “one-way clips” on the inside roof panel.
- b. Remove all OEM antenna connections.
- c. Label the OEM AM/FM radio cable for later use with the STI-CO Glass Mount AM/FM antenna installation (if required). See instructions CI-438
- d. Remove OEM original antenna base using appropriate tools.
- e. Position the STI-CO antenna base into hole from the top. It helps to have an extra set of hands to hold and align the new antenna.
- f. Install washer (if required) and serrated flange nut. Torque to 90in-lbs max.

Note: If the washer is used, remove debris and paint, to bare metal around the hole, on the underside of the roof by using a wire brush or an abrasive material. Apply a thin film of dielectric silicone grease to the bare metal to prevent rust and corrosion

- g. Route feedline/matching network cable from antenna base to mobile radio

Note: be careful not to tear the outer jacket of cable when pulling through sharp body panels. If a hole appears in the cable's jacket, cover with several layers of a high-quality electrical tape.

- h. Conceal excess cabling under headliner.
- i. Coiling feedline cable can cause electromagnetic interference. If limited space is a concern, fold the cable upon itself rather than coiling.
- j. Do not cut the impedance match cable. Cutting impedance match cable will degrade antenna performance
- k. Perform recommended mobile radio testing, described below
- l. Re-install trim pieces and hardware removed at the start of the installation.

TESTING:

Installation testing, if required, 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 doors; hood, and trunk are closed.

1. Continuity: A continuity test between the center pin of the connector and ground will measure as an open circuit for this antenna system.
2. Reflected Power / VSWR: When measuring reflected power using a Wattmeter, a reading of about 11% is a typical result. When measuring Voltage Standing Wave Ratio (VSWR) directly using a Network Analyzer, a reading of about 2:1 is a typical result.