



# Installation Considerations SUV SILL MOUNTED VHF Antenna

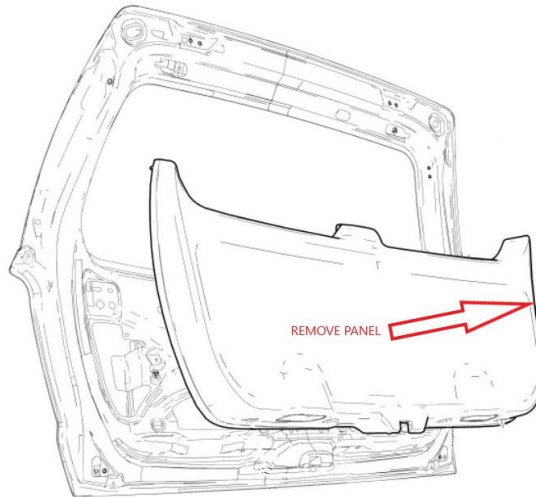
MODEL: SILL-SB-VHF

**VERIFY:**

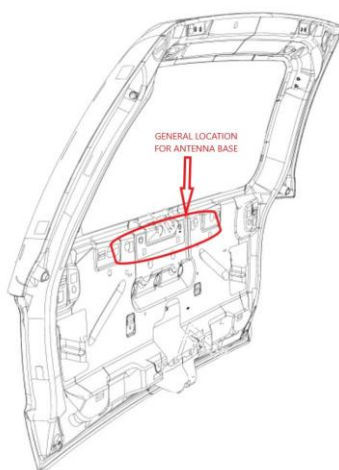
1. Part List: The package includes an antenna base with mast, cable, and mounting screws. Use only the components supplied with the antenna.
2. Frequency Band: VHF 150-174 MHz

**TYPICAL INSTALLATION:** Installation steps and precautions can vary depending on the vehicle.

1. Remove the interior panel located on the inside of the rear hatch. Panels are typically held in place by screws and/or snapped onto the hatch.



**PLACEMENT:** Select a vertical flat surface, close to the top edge of the metal hatch and just below the window, centered on the width of the hatch. Inspect the area and location for any components (wiper motor, wiring, latches, etc.) that could interfere with the fasteners or antenna. Examine the inside of the panel to determine if there will be space and clearance for the antenna base if the panel is re-installed after mounting the antenna. Not placing the antenna within these guidelines could possibly degrade the antenna response. Place standoff/suction cup at top of mast.





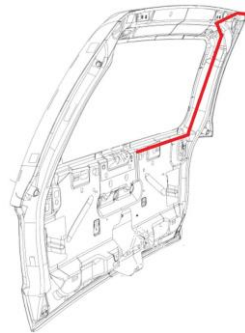
## ATTACHMENT:

1. Using the antenna base as a template, position it on the hatch and mark the hole locations. Make sure the antenna mast is parallel to the window and does not contact the window, hatch, or ceiling of the vehicle.
2. Drill .228 (No. 1 drill) diameter holes into the inner surface of the hatch, at the locations marked in step 1.
3. Using a 3/8" hex socket and driver, attach the base to the hatch with the included screws, with the mast pointing upward and the connector pointing downward.
4. Thread standoff onto suction cup. Remove vinyl cap from tip of mast and slide mast through standoff. Reinstall cap and attach suction cup to window (see picture).



## CABLE ROUTING:

5. Run Cable: Route coaxial cable from antenna base toward the two-way radio by typically passing the cable along the side of the window, and up to and near/over the hinge. Tuck cable inside vehicle under the interior vehicle trim or headliner. Cable will normally not be damaged by opening and closing the rear door.



6. 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.
7. Electromagnetic interference: Do not coil feedline cable or matching network. If limited space is a concern, fold the cable upon itself rather than coiling. Do not tape or secure any feedlines to data or vehicle cables during installation.

## PANEL RE-INSTALLATION (Optional):

1. Estimate the location and size of hole needed in the top surface of the panel, to allow the mast to pass through the panel and remain vertical once the panel is re-installed. Additional notches or holes may also be needed for the cable.
2. Drill hole(s), as needed.
3. Re-install panel and reposition mast to a vertical orientation.

## TESTING:

Installation testing must take place at the transmitter side of the feedline. Make sure all doors, the hood, and hatch 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.*

Continuity: A test of continuity between the center pin and ground will show as a short for this antenna.