![SkyBitz logo]

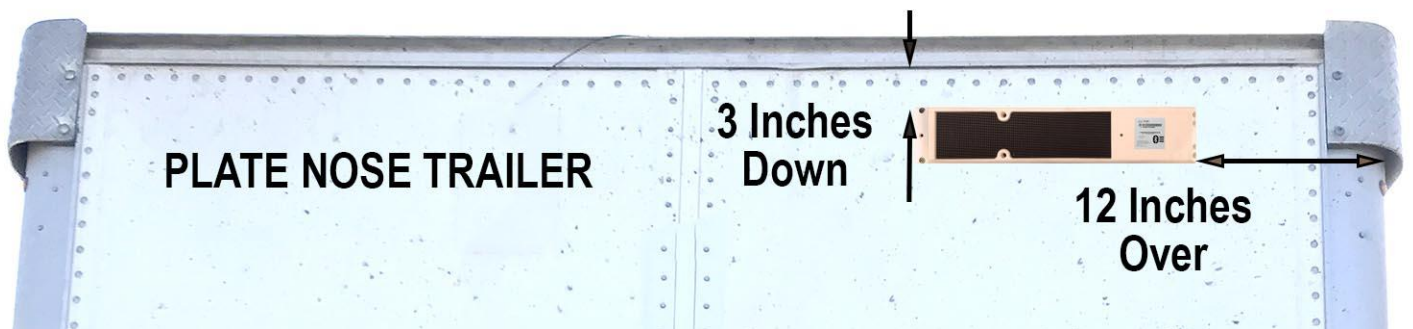# SkyHub with SkyCamera Installation

SkyHub Componets

- SHB1000 SkyHub Tracking Device
- SkyHub Mounting Bracket
- 6, 10-32 Tamper Proof Screws
- SkyHub Short Shroud
- 6, 1/8 Inch sealing Blind Rivets
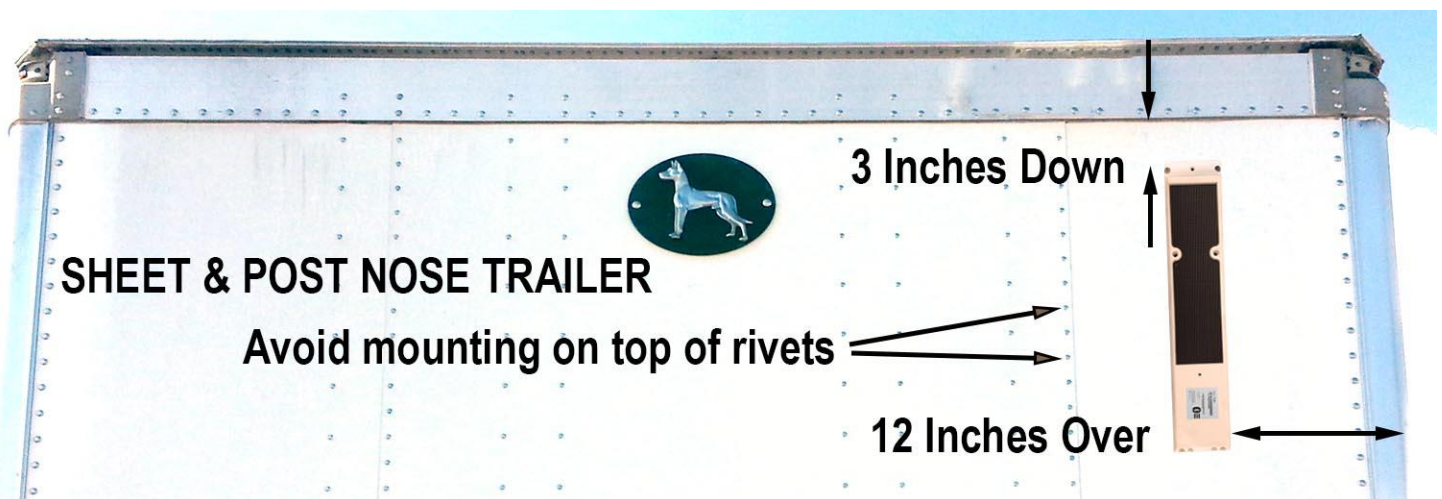- 3M Primer 94 Ampoule

Tools Required:

- Power Drill and 1/8 in Drill Bit
- 5/32 Inch Pin in Hex Tamper Proof Screwdriver
- Blind Rivet Tool
- 50/50 Isopropyl Alcohol/Water Solution
- Clean Rags
- Tape Measurer

SkyHub Mounting Location

The SkyHub will be mounted to the exterior front wall of a Dry Van Trailer. The locations described below are recommended for optimal communications with the SkyCam. The general dimensions noted may be adjusted to avoid mounting on top of any logos or asset identification. For a Plate Nose Trailer, the SkyHub will be mounted to the front wall horizontally, about 3 inches down from the bottom of the top rail, and about 6 inches from the roadside edge with the connector on the left.
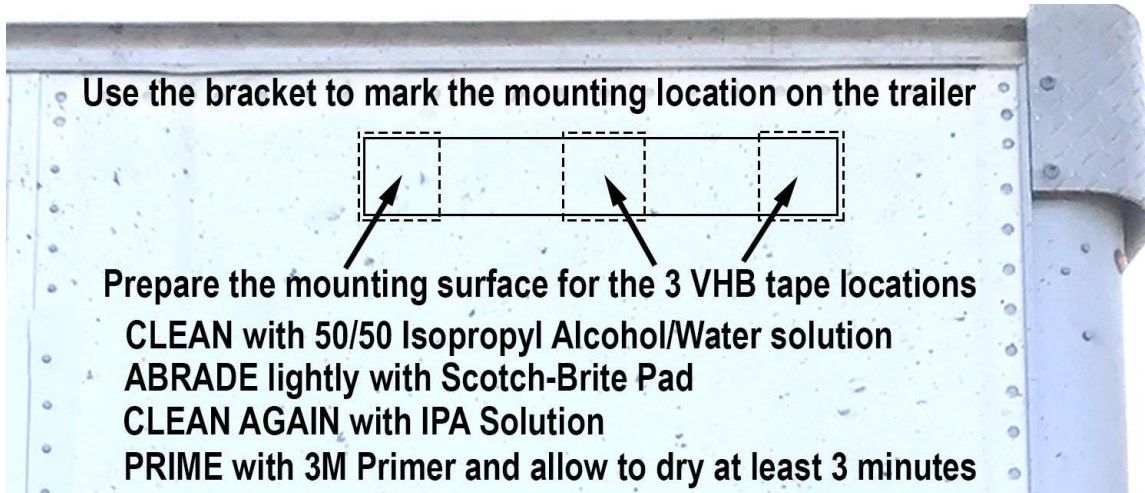

For a Sheet and Post Nose Trailer, the SkyHub will be mounted to the front wall vertically, about 3 inches down from the bottom of the top rail, and about 6 inches from the roadside edge with the connector at the top.
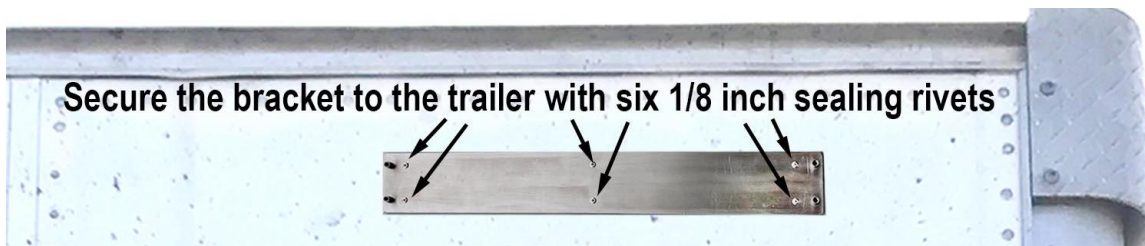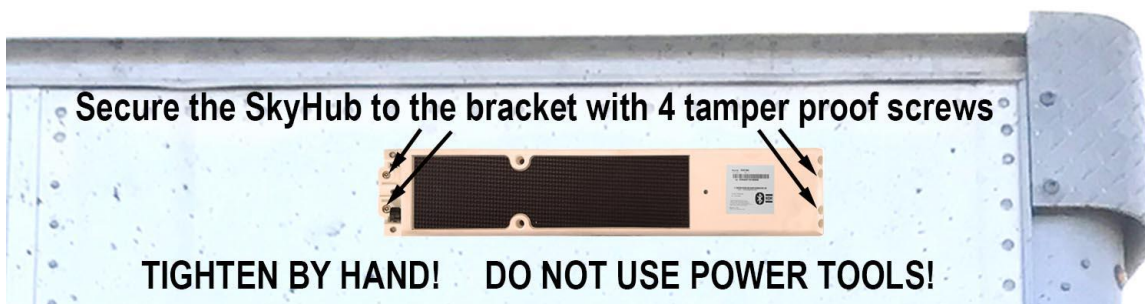
SkyHub Tracking System Installation

- Use the SkyHub bracket as a template to mark the bracket location, and the 3 VHB tape locations on the wall
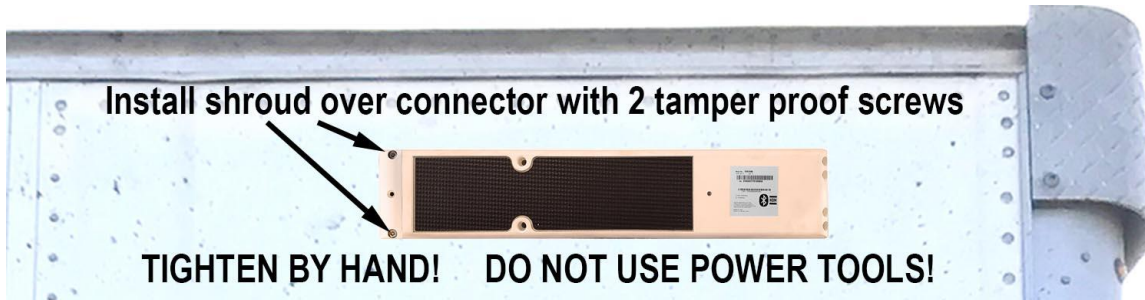
Use the bracket to mark the mounting location on the trailer

Prepare the mounting surface for the 3 VHB tape locations
CLEAN with 50/50 Isopropyl Alcohol/Water solution
ABRADE lightly with Scotch-Brite Pad
CLEAN AGAIN with IPA Solution
PRIME with 3M Primer and allow to dry at least 3 minutes

- Prep the trailer wall for the 3 VHB tape mounting surface locations
    - o **Clean** with IPA solution
    - o **Abrade** lightly with Scotch-Brite pad
    - o **Clean again** with IPA solution
    - o **Prime** with 3M Primer 94 and wait at least 3 minutes
- Remove the liner from the 3 VHB tape locations on the bracket, place the bracket onto the mounting location on the trailer wall, and firmly press it onto the wall

Secure the bracket to the trailer with six 1/8 inch sealing rivets

- Use the rivet holes in the bracket as a guide and drill six 1/8-inch holes in the trailer wall
- Secure the bracket to the wall with the six 1/8-Inch sealing rivets
- Orient the SkyHub with the connector on the left for a horizontal install, or with the connector at the top for a vertical install, and install it on the bracket

Secure the SkyHub to the bracket with 4 tamper proof screws

TIGHTEN BY HAND!   DO NOT USE POWER TOOLS!

- **Using a hand driver**, secure the SkyHub to the bracket with four, 10-32 tamper proof screws

Install shroud over connector with 2 tamper proof screws

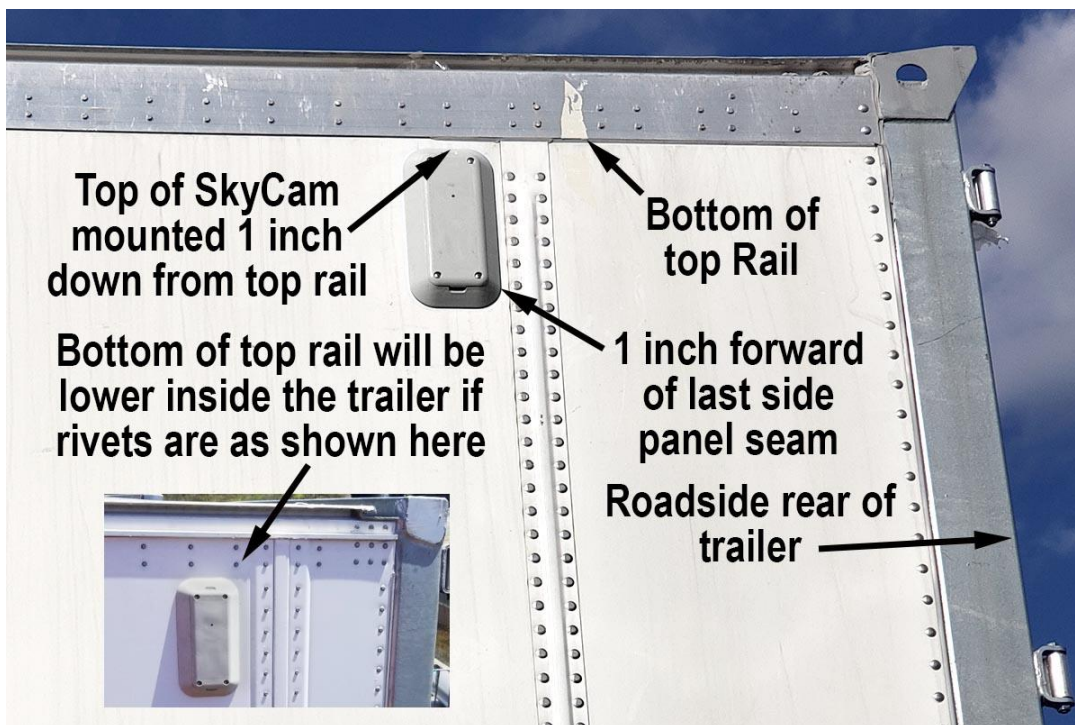**TIGHTEN BY HAND!   DO NOT USE POWER TOOLS!**

- Fasten the Short Shroud to the SkyHub with two, 10-32 tamper proof screws

SkyCamera Installation Components and Tools

- SkyCamera with SkyCamera Mounting Bracket
- 4, 10-32 Tamper Proof Screws and 5/32 Inch Pin in Hex Tamper Proof Screwdriver
- 8, 3/16 inch stainless steel rivets
- SkyCamera circular alignment tool
- 1.75 inch hole saw
- Heavy duty rivet tool
- 50/50 Isopropyl Alcohol/Water Solution & Clean Rags
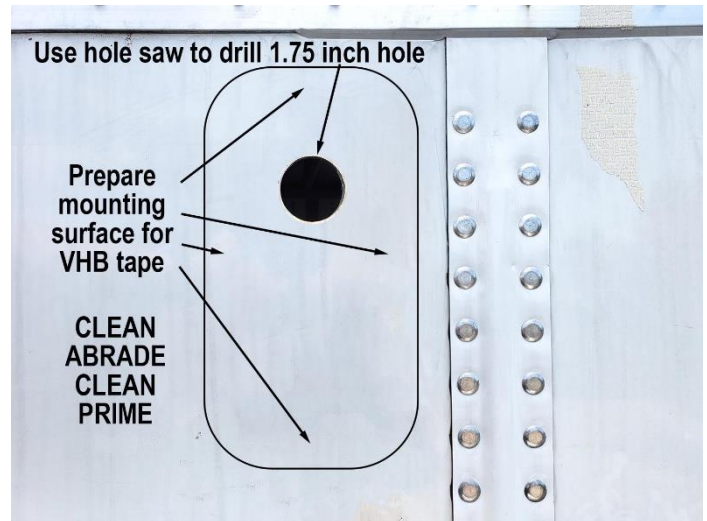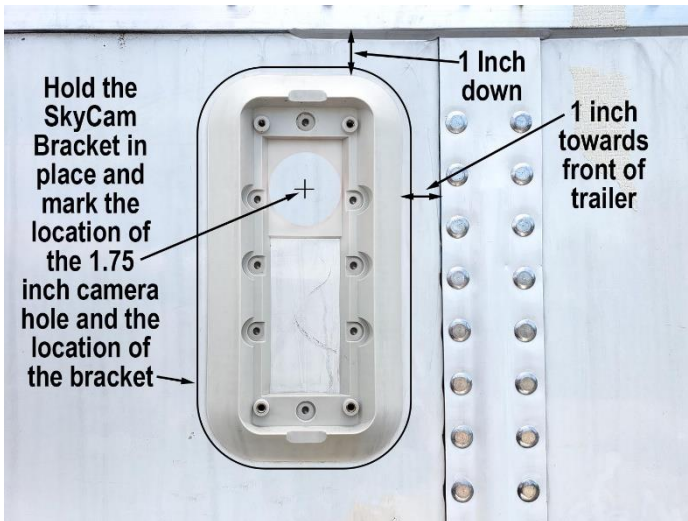- Scotch-Brite pad
- 3m Primer 94 Ampoule

SkyCamera Mounting Location

The SkyCamera will be mounted to the roadside wall of the trailer about an inch down from the bottom of the top rail and about an inch forward of the panel seam as shown. Open the roadside door all the way to check for interference from the lock bar location. If the lock bars will hit the SkyCam, move the SkyCamera location forward until it clears the lock bars.

Top of SkyCam mounted 1 inch down from top rail

Bottom of top rail will be lower inside the trailer if rivets are as shown here

Bottom of top Rail

1 inch forward of last side panel seam
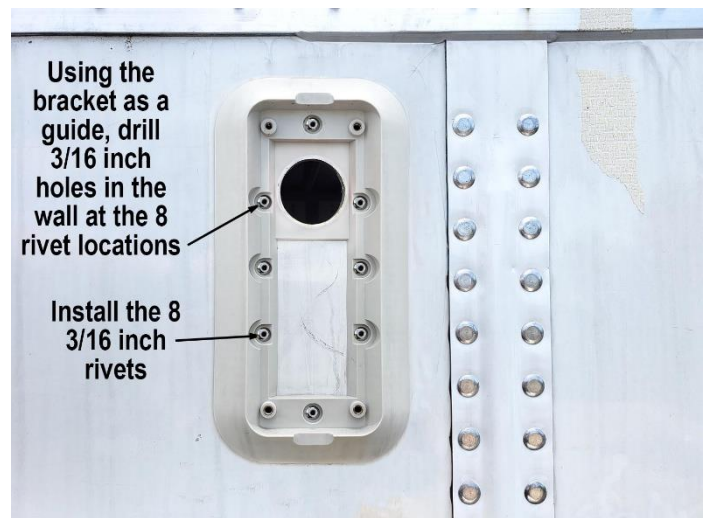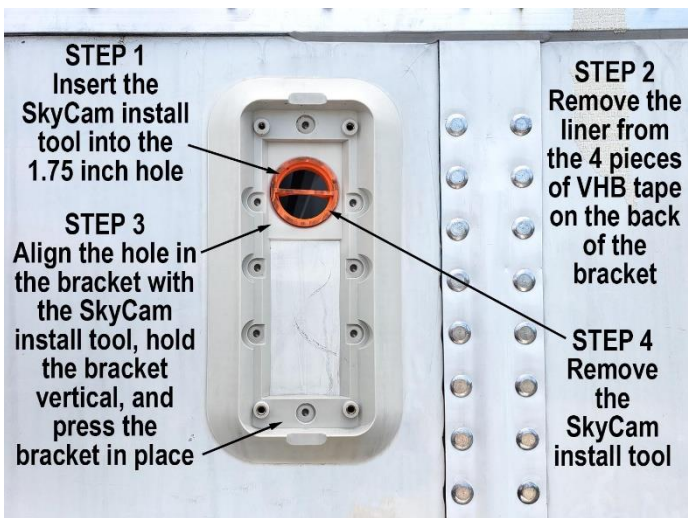
Roadside rear of trailer
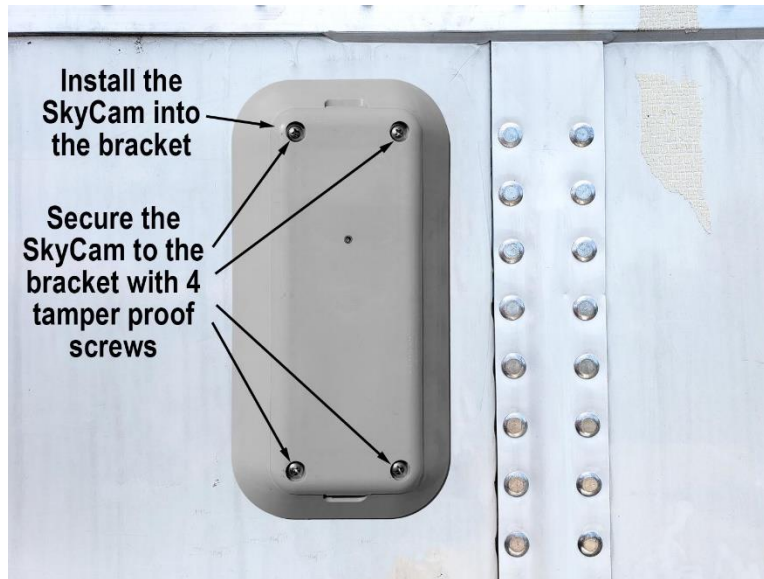
SkyCamera Installation

- Use the SkyCamera bracket as a template to mark the location of the bracket and the 1.75-inch camera hole
- Drill the 1.75-inch hole for the camera and remove any burrs
- Prep the VHB Tape mounting surface
    - **Clean** with IPA solution
    - **Abrade** lightly with Scotch-Brite pad
    - **Clean again** with IPA solution
    - **Prime** with 3M Primer 94 and wait at least 3 minutes

Hold the SkyCam Bracket in place and mark the location of the 1.75 inch camera hole and the location of the bracket

1 Inch down

1 inch towards front of trailer

Use hole saw to drill 1.75 inch hole

Prepare mounting surface for VHB tape

CLEAN
ABRADE
CLEAN
PRIME

- Insert the SkyCamera install tool into the hole
- Remove the liner from all 4 pieces of VHB tape on the bracket
- Align the camera hole in the SkyCamera Mounting Bracket with tool, ensure the bracket is vertical, and press the bracket onto the trailer wall
- Remove the SkyCamera install tool
- Using the bracket as a template, drill the eight 3/16-inch rivet holes in the trailer wall
- Install the eight 3/16-inch rivets

STEP 1
Insert the SkyCam install tool into the 1.75 inch hole

STEP 3
Align the hole in the bracket with the SkyCam install tool, hold the bracket vertical, and press the bracket in place

STEP 2
Remove the liner from the 4 pieces of VHB tape on the back of the bracket

STEP 4
Remove the SkyCam install tool

Using the bracket as a guide, drill 3/16 inch holes in the wall at the 8 rivet locations

Install the 8 3/16 inch rivets

- Install the camera to the bracket with four 10-32 tamper proof screws

- Remove the Barcode label taped to the SkyCamera and install it on the front of the trailer next to the 7-way connector

FCC Compliance: This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:
1. this device may not cause harmful interference, and
2. this device must accept any interference received including interference that may cause undesired operation.

ISED Compliance: This device complies with Industrie Canada's license exempt RSSs. Operation is subject to the following two conditions:
1. this device may not cause interference, and
2. this device must accept any interference received, including interference that may cause undesired operation of the device.

Ce dispositif est conforme à la licence exempte de licence s'il s'agit de RSS. L'exploitation est assujettie aux deux conditions suivantes :
1. cet appareil peut ne pas causer d'interférences, et
2. ce dispositif doit accepter toute interférencereçue, y compris toute interférence qui peut provoquer un fonctionnement indésirable de l'appareil.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device meets the FCC requirements for RF exposure in public or uncontrolled environments (>20cm for MPE devices).