

PUCK ANTENNA INSTALLATION



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RECORD OF CHANGES

Version	Date	Author	Notes
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PUCK ANTENNA INSTALLATION SUMMARY

The indoor mounted puck antenna fulfills the need of an outdoor mounted antenna for Cellular, Wi-Fi, and GPS. VHF or Satellite communication is not included with this antenna; satellite or Orbcomm reception requires a separate antenna.

In most instances this antenna is mounted to the windshield of a vehicle, usually in the upper left or right hand corner. Or perhaps in the top center of the windshield, but when mounting in this location one must be careful not to impede the operators' field of view.

MOUNTING THE ANTENNA

Find a suitable antenna location 3.5 to 4 inches from windshield corner or metal surfaces to mount the antenna, clean the area where the antenna will be placed using an alcohol wipe or something similar to clean any oil or grease from the surface; don't remove the red cover over the adhesive surface on the back side of the antenna until you are ready to install the antenna. The adhesive is a VHB double sided tape and adheres to almost anything, including your fingers.

ANTENNA INSTALLATION QUICK GUIDE:

- 1. Determine best location to mount antenna:
 - a. Passenger side, drivers side or top center
 - b. On trucks with a metal visor, mount antenna a little lower (the metal will attenuate signal)
 - c. Prior to installing antenna clean area with alcohol swab or Windex
 - d. Remove protective backing from antenna adhesive
 - e. Install antenna, 3.5" to 4" from windshield corners; hold in place for several seconds
- 2. Antenna coax routing and management:
 - a. Route coax where it has the least chance of being damaged
 - b. Excess coax should <u>NOT</u> be tightly coiled, this will cause signal degradation
 - c. DO NOT TIGHTEN TRUCK PC COAX CONNECTORS WITH WRENCH OR PLIERS, HAND TIGHTEN ONLY

Once the antenna is in place, hold it there firmly for about 30 seconds and it will be adhered to the surface.

COAX ROUTING

There are numerous ways to route the coax depending on the vehicle being installed.

COAX MANAGEMENT

On some vehicles you may have additional coax to manage. It is strongly suggested to not wrap the excess coax in a tight coil; a tight coil of coax creates signal attenuation from the received signal at the antenna, decreasing signal strength at the truck PC.

FREIGHTLINER (CASCADIA)

After mounting the antenna, route the coax behind the plastic molding piece attached to the "A" pillar just above the windshield in the top corner either on passenger or drivers' side (*Refer to Freightliner figure 1*). From there remove the door molding from the top corner to the door seal plate (*Refer to Freightliner figure 2*). Then remove the door seal plate. Route the coax in the gap created along the door frame to the tray along the bottom of the door (*Refer to Freightliner figures 3, 4*). If the Truck PC is mounted behind the passenger seat, the molding on the adjacent side of the door does not usually need to be removed, as there is a notch in the molding near the wall separating the cab from the sleeper. The coax can be routed by lifting the molding slightly while tucking the coax into the tray below (*Refer to Freightliner figure 5*).

Say the Truck PC is mounted under the sleeper birth. The coax must be routed under the back wall of the storage compartment just behind the wall separating the cab from the sleeper. When routing the coax it is a good idea to tape the connectors; this not only protects them from getting debris in the connector, it also makes it much easier to get all of them routed together.

CAUTION: DO NOT PULL ON THE ANTENNA SMA CONNECTORS

PETERBILT AND KENWORTH

After the antenna has been mounted, route the coax to the upper corner of the windshield and lift the corner of the molding to tuck the coax behind it *(Refer to Peterbilt figure 1)*. There is a hanger bracket located almost directly above the driver's seat in the plastic molding, remove the (2) Phillips head screws *(Refer to Peterbilt figure 2)*. This will allow the molding to be pulled out far enough to get the coax behind it. Follow the molding behind the driver's seat, the molding will continue to the floor. Route the coax down the edge of the molding to the floor *(Refer to Peterbilt figure 3)*. Once on the floor, lift the floor mat from the corner and there will be enough room to route the coax to the sleeper. Although, some models are equipped with a refrigerator in the sleeper compartment behind the driver's seat, in this case it may be necessary to route the coax along the front of the compartment door under the floor mat back to the truck PC.

PHOTOS OF ANTENNA MOUNTING AND COAX ROUTING - FREIGHTLINER



Freightliner (Cascadia) 1



Freightliner (Cascadia) 2



Freightliner (Cascadia) 3



Freightliner (Cascadia) 4



Freightliner (Cascadia) 5



2010 Peterbilt (386) 1



2010 Peterbilt (386) 2



2010 Peterbilt (386) 3

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