



## TRES900S UHF Tag Mounting Instructions

It is imperative that these mounting instructions be followed to insure proper performance of the TRES900S UHF Reader. Failure to follow these instructions may result in poor performance. All tags **must** be installed in a **VERTICAL** orientation for **optimum** performance.



### WS421G + C + W + OVAL – Windshield Stickers

The WS421 series tags are designed to be mounted in a vertical orientation (recommended) on the **inside** of the vehicle's windshield. This tag is tuned to the dielectric properties of the windshields glass so proper performance is achieved when adhered to the windshields glass. Testing is recommended and can be accomplished by taping (painters' tape is recommended) the tag on a temporary basis only. The WS421 must be mounted at least two inches from the metal support posts on either side/bottom of the windshield. The preferred placement is at the bottom/left (driver's side) of the windshield to avoid antennas or tinting at the top of the windshield and to also insure that the driver's view of the roadway is not obstructed! This mounting position is always recommended when the Reader is positioned on the left side of the travel lane... If the Reader is mounted on the right side of the travel lane, this tag mounting position can be duplicated on the right (passenger) side of the windshield.

### Center Mounting:

the tag at the bottom of the rear-view mirror post works nicely when the Readers are mounted directly overhead in the center of the lane. This is also the recommended position when a combination of Windshield Stickers and HangTags are being used.

### Note:

Correct positioning of this tag at the bottom of the rear-view mirror post will not inhibit the driver's view of the highway. Some car manufacturers will place a "window" in this area of the windshield (no tint or metal) for the express purpose of mounting toll and AVI tags like the WS421.

**Prior to mounting** the mounting area must be clean and free of oils or cleaning solutions.

**Do Not Attempt** to remove this sticker once it is applied, you are very likely to compromise the antenna which will render the tag useless. It is preferable to have a crooked tag than to destroy it.





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**Metallic Windshield Content** – some vehicle manufacturers install windshields that contain a significant metal content in them. These are usually higher-end vehicles, though the practice varies widely and can often be found in a few domestic vehicles. When a windshield contains too much metal content, the passive UHF tags will not work – this is not limited to any one manufacturer, this is simple physics. See the suggestions below please.

**Prior to mounting** – the mounting area must be clean and free of oils or cleaning solutions. **Do Not Attempt** to remove this sticker once it is applied, you are very likely to compromise the antenna which will render the tag useless. It is preferable to have a crooked tag than to destroy it.

### VIPER – Multi-Surface Tag



VIPER tag offers top performance where space is limited. They cover a range of applications from supply chain and industrial automation to brand

protection and sports-timing. The VIPER tag is well-suited for use on highly detuning and difficult-to-tag materials (not for metal surfaces). This tag Meets the Challenges of Narrow Spaces and De-Tuning Materials. This tag is a good alternate when you encounter **metallic windshields**. This tag can be mounted on headlamps, windshields and underneath your side view mirror (if non-metallic), etc. Tag orientation is not critical with this tag, it can be mounted in either the vertical or horizontal position, or somewhere in between.

### STEALTH – Multi-Surface Tag



The STEALTH is another multi-surface tag that is pre-tuned for metal and can be mounted on almost any surface. Since it is already tuned for metal, the STEALTH works best when it is mounted on any surface, including a metal surface. Most users use this tag for those tough to read vehicles and want a tag that can be hidden behind a plastic material.

**NOTE:** Make sure there is no metal between the tag and the reader and for optimum performance. The reader and tag should be located on the same side of the vehicle. The closer the tag is to the reader and the more parallel the reader and tags are to each other, the better the performance.

**NOTE:** Make sure the reader is no lower than 5' from the earth's surface because the reader emits energy 4' from all of its sides and the earth will absorb the signal giving you shorted read range.