Identity MaX Pro Tag Placement Guide

The IDentity MaX Non-transferable Transponder (IDMAX-TAG-01) is designed to be used with the Sirit IDentity MaxPro reader for access control and automatic vehicle identification applications. The antenna of the tag is specifically tuned for operation while mounted on automobile windshields, so the tag must be mounted directly on the windshield glass of the automobile. The tag is designed to break on removal from windshield glass, so review the following installation instructions and verify correct tag location prior to affixing the transponder to the glass. If the tag is removed from the glass, it becomes nonfunctional, and will need to be replaced with a new tag.

The following placement instructions will also apply to the Sirit Transferable Zip tag (IDZIP-TAG-02).

Windshield Tag Placement

Figure 1 shows the recommended tag location on the automobile's windshield to achieve consistent RFID tag interrogation for an automatic vehicle identification application. The tag should be placed below any metal liner in the glass, but the top of the tag should be no more than 5″ below the metal roof.
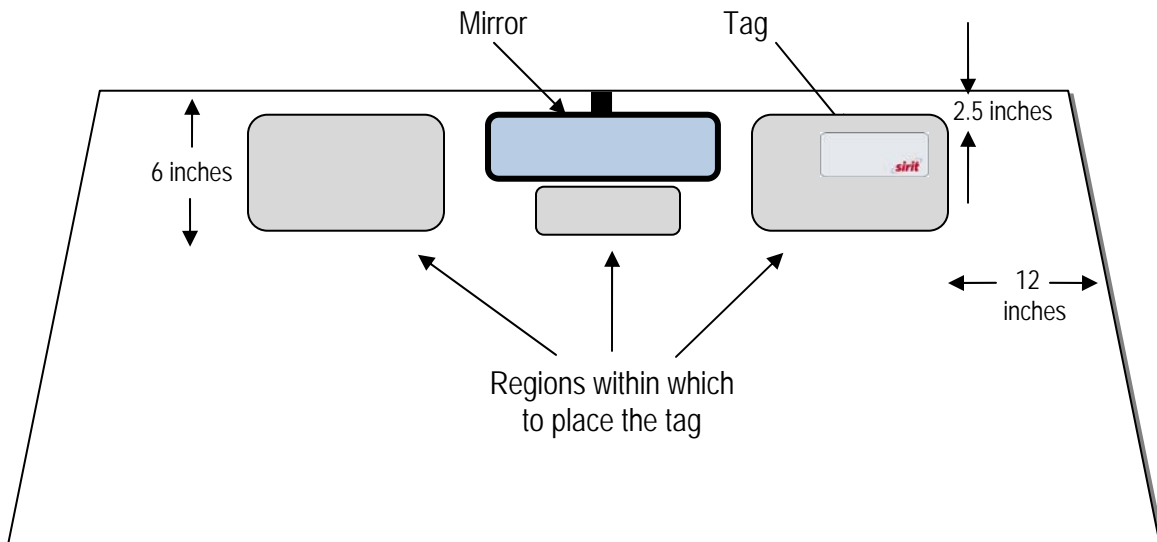

Figure 1

If using a reader antenna located along the side rather than overhead the tag should only be placed on the section closest to the antenna. If the reader is overhead, the tag should be placed in the center of the windshield in the area behind the rearview mirror. The tag should not be placed within 12 inches of another AVI transponder (i.e. TollTag, EZPass, SunPass, etc).

Windshield Tag Placement for Windshields with Metallic Coating

Some windshields have metallic coating or tinting that will affect the operation of the transponder and result in diminished system performance. Most of these types of windshields have an RF-friendly cutout behind the rearview mirror. Check the owner's manual for the vehicle to determine the location of this cutout. The tag should be mounted in this location, at least 12 inches away from another AVI transponder.
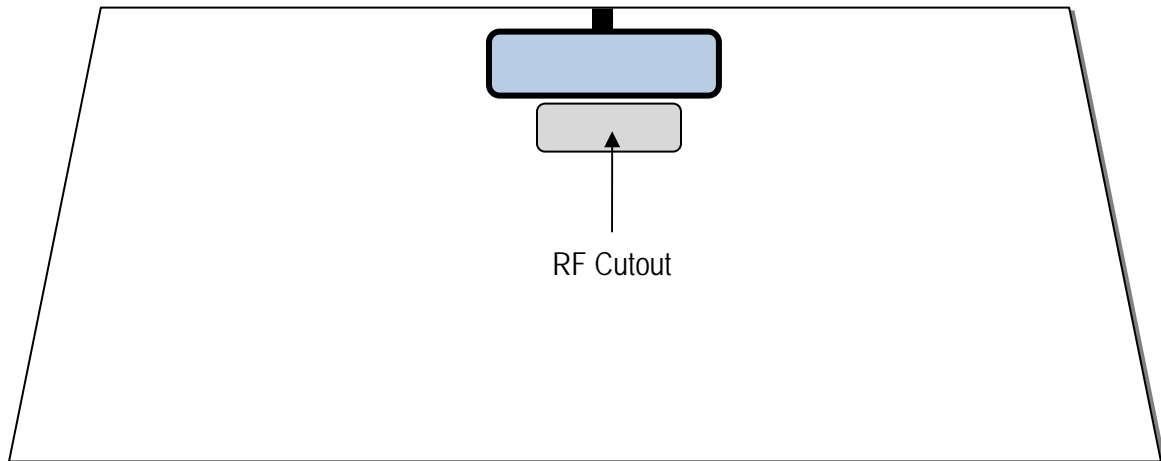

RF Cutout

Figure 2

If there is no RF cutout on the windshield, or if system performance is still poor due to windshield coatings, an externally mounted tag is available from Sirit (IDZIP-TAG-LP).

Proper Tag Mounting

Once the tag location has been determined, the inside of the windshield at that location should be cleaned thoroughly and dried prior to affixing the Max tag. Sirit recommends using isopropyl alcohol to clean the inside surface of the windshield in the mounting location, although other cleaners may also be used. Once the mounting location has been cleaned and dried, peel the paper backing off of the tag, and stick the tag to the inside of the windshield. Figure 3 below shows the proper orientation of the tag when looking out of the windshield from inside the vehicle. Do not bend the tag when removing the backing or applying to the windshield, as this can damage the chip or antenna and make the tag stop working. The tag cannot be repaired and must be replaced.
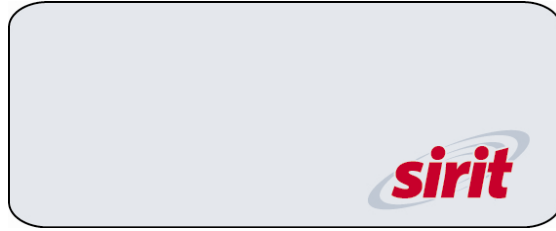
Figure 3

Tag Handling

Care must be taken in the handling of the tags prior to installation to avoid damaging the tag and impacting system performance. The following guidelines should be followed to minimize the chances of damage:
- Do not bend or fold the tags
- Do not mail tags in an envelope.
- Do not staple tags to paperwork
- Do not affix the tags to paperwork with a paperclip
- Do not write on tags with a ballpoint pin
- Do not allow the tags to get wet

If the tags are subjected to any of the above actions prior to installation, they may be damaged and require replacement.

If you have any questions or concerns about tag locations, performance, reader settings, or anything else, please contact Sirit Technical Support at (877) 492-0101.