



**COVERT WIFI
WINDOW MOUNT ANTENNA**

PMAN5100

Installation Manual

Foreword

This manual applies to digital mobile radios, unless otherwise specified. It includes instructions for installing the Covert WIFI antenna in a vehicle window mount configuration.

Product Safety and RF Exposure Compliance



Caution

Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet enclosed with your radio.

ATTENTION

This radio is restricted to occupational use only to satisfy FCC RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet enclosed with your radio (Motorola Solutions Publication part number 6881095C99) to ensure compliance with RF energy exposure limits.

For a list of Motorola Solutions-approved antennas, batteries and other accessories, visit the following web site which lists approved accessories:

http://www.motorolasolutions.com/en_us/products/two-way-radios/project-25-radios.html

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Introduction

The vehicle WIFI window mount antenna is intended for mounting on the windshield of the vehicle. After completing the installation, the cable is concealed between the headlining and the roof of the vehicle, with minimum disturbance to the headlining and the upholstery. Figure 1-1 shows the WIFI window mount antenna.

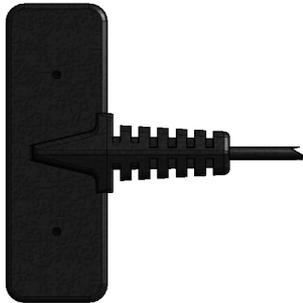


Figure 1-1. WIFI Window Mount Antenna

FCC Requirements



Caution

To comply with FCC regulations when installing the antenna lead-in cable, **DO NOT** shorten the cable.

Consider the following factors when installing an antenna.

- Install the vehicle antenna internal to the vehicle on the windshield, and in accordance with the requirements contained in this manual.
- Ensure the antenna cable can be easily routed to the radio.
- Ensure that the antenna cable is routed separately and not in parallel to any other vehicle wiring or mobile radio cable wiring.

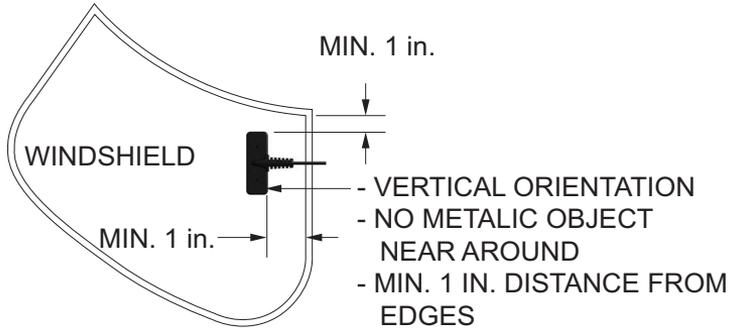


Figure 1-2. Recommended Installation on Windshield

Required Tools and Materials

No tools and materials are needed to install the antenna.

Installation Procedure

The installation procedure that follows is for a typical passenger car. The procedure may vary slightly with the type of vehicle on which the antenna is to be installed. Generally, however, the procedure outlined below is universal in nature.

Antenna Installation

1. Select a location for the antenna on the windshield. The antenna should be on the PASSENGER side, close to the TOP, and on the FRONT WINDSHIELD only. Make sure the antenna does not obstruct the view of the driver. For optimum performance, a higher location on the windshield is better than a lower one.

NOTE:

- *Do not mount the antenna to the dashboard or the rear deck as the antenna may obstruct the view of the vehicle driver as well as effect optimal RF performance.*
 - *Check the antenna location for any electrical interference. Keep away from metallic tint, defroster wires, or other obstructions on the windshield.*
 - *Keep WIFI Antenna at least one inch away from windshield edge and car chassis metal.*
2. Make sure the antenna is vertically polarized, so the radiation pattern is omnidirectional.
 3. Test fit the antenna on the selected area prior to removing the release liner from the tape on the antenna's mounting surface.
 4. Probe the headlining with your fingers to make sure that all points of obstruction are avoided.
 5. Determine the routing of the cable from the antenna to the radio set, and then remove the molding and trim necessary to facilitate pulling the cable through.

NOTE: If you experience difficulty with cable routing, use an electrician's fishtape to perform this step.

6. Make sure the mounting glass surface is clean and free of debris. Clean surface area with a lint-free cloth using isopropyl alcohol to remove any residue grease or dirt buildup.
7. Remove the release liner and carefully position the antenna above the selected mounting area.
8. Place the antenna on the mounting surface and apply even pressure to allow the foam tape to conform to the windshield curvature.

NOTE: 50% of the bond strength is achieved after 20 minutes. Avoid contact with the antenna for a minimum of 20 minutes after initial installation. Full bond strength of the adhesive tape is realized after 72 hours.



The adhesive tape is very strong and will bond instantly on the mounting surface. Once the antenna is placed on the surface, it **cannot** be moved.

9. Double check the connections and then reinstall molding and trim.



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