

INSTALLATION INSTRUCTION

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NOTES:

MAANT0068



INSTALLATION INSTRUCTIONS

***XM SATELLITE RADIO
ADHESIVE MOUNT
ANTENNA***



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The Metra XM Satellite Radio Antenna is designed solely for XM Digital Satellite tuners. It is designed to receive both satellite and terrestrial signals to ensure that you have an uninterrupted signal.

ELECTRICAL INFORMATION:

Frequency 2332.5 to 2345 MHz	Input IP3 -10 dBm min, -6.5 dBm typical
Polarization LHCP (satellite) Linear Vertical (terrestrial, at horizon) ¹	P1dB, 1850-1990 MHz -10 dBm min, -6 dBm typical
Antenna Element Gain, Passive See below ²	P1dB, 824-894 MHz -4 dBm min, > 5 dBm typical
Output VSWR 2.0:1 max	P1dB, 450 MHz -4 dBm 0 dBm min, > 5dBm typical
Total Active Gain incl. Cable 19 dB min, 23 dB max	Power Supply Voltage +3.6 to +5.5 VDC
LNA Noise Figure 0.7 dB typ, 1.4 dB max over operating temperature	Power Supply Current 25 mA min, 55 mA max

¹ Vertical Polarization derives from vertical component of LHCP

² +0.5 dBic min, +2.0 dBic avg @ 20° above horizon (LHCP)
+1.0 dBic min, +2.0 dBic avg @ 25° above horizon (LHCP)
+2.0 dBic min, +2.0 dBic avg @ 30° to 60° above horizon (LHCP)
-2.0 dBic avg gain, 4 dB max ripple @ 0° above horizon (VP)

INSTALLATION PREPARATIONS:

Before mounting the antenna, first you need to decide where the antenna will be placed. Some considerations for placement of your XM satellite antenna are:

- The roof is the most desired site since it is the highest point on the vehicle. The antenna should be placed on a minimum of a 12"x12" metal section to ensure the best reception. Make sure if the vehicle has a roof rack that the antenna is not blocked. this might require the antenna to be placed off center.
- On convertibles and fabric top vehicles, the truck lid is an acceptable location.
- It is NOT recommended to mount the antenna inside the vehicle.

Once an acceptable location has been found, plan the routing of the cable from the antenna to the receiver. Avoid any locations that might kink, crimp, or cut the cable. If drilling through metal, be sure to use a grommet.

INSTALLATION AND TIPS:

- At the location selected for the antenna, clean the area with an alcohol swab to clear away any dirt or debris that might scratch the vehicles paint under the antenna.
- Peel the protective backing off the antenna adhesive, then press down the antenna at the predetermined mounting location for about 60 seconds. Then route the cable under the window moulding to conceal the cable. You can use a small flathead screwdriver or a dental pick to help with routing the cable.
- When going through a small opening, remove the plastic fakra connector and inserts around the antenna end.
- Enter the vehicle at the predetermined location making sure the cable is out of the way of any moving parts. If possible, wire tie the cable to a harness or another stationary object to prevent the cable from coming in contact with any moving parts.
- Run cable to satellite receiver. If there is any excess cable, use a wire tie to bundle up the cable. Do not bend the cable severely as damage may occur to the cable.
- Plug antenna into receiver then test for reception by going to the preview channel.
- Allow 20 minutes for the adhesive to set before driving vehicle.

USE AND CARE:

- THE XM ANTENNA IS MAINTENANCE FREE.
- ** Do not go through automatic car washes for at least 72 hours after antenna installation.

For Questions or Concerns regarding your XM Satellite Radio Antenna please call Metra Electronics Corporation at: 1-800-253-TECH (8324)