



**SRS** SATELLITE RADIO SUPERSTORE

**Satellite Radio Antenna  
Made For Motorcycles**

U S Patent: 7515113  
Others Pending.

AWSR-232045MT



# Installer & User Guide

Need Help? 800.513.8554 [contactus@satelliteradiosuperstore.com](mailto:contactus@satelliteradiosuperstore.com)

- 1 The 3" element must always be vertical with 10degree max slant.
- 2 The flex-clamp is specially made to flex open, easy to apply or remove the rubber pad inside.
- 3 Select 1 of the 3 screws to best suite handlebar diameter and point screw tip going far past the clamp screw hole.
- 4 The element (1) attaches to this base if your bike does not have tube handlebars. Peel off the adhesive liner before use.
- 5 Just in case you loose the hardware, here is another set. Store it in a safe place.
- 6 This module is the fancy signal amplifier (LNA) that makes this antenna perform fantastic. It is weather sealed.
- 7 This cable is 6 FT long and connects to your satellite radio once carefully hidden or routed between antenna and radio. Keep away from heat and electrical noise sources. (& vehicle computers)
- 8 A few very important cable tie-wraps to help you make a neat installation.
- 9 A spare double adhesive tape for the round base. Needed if changing the the antenna to another bike.

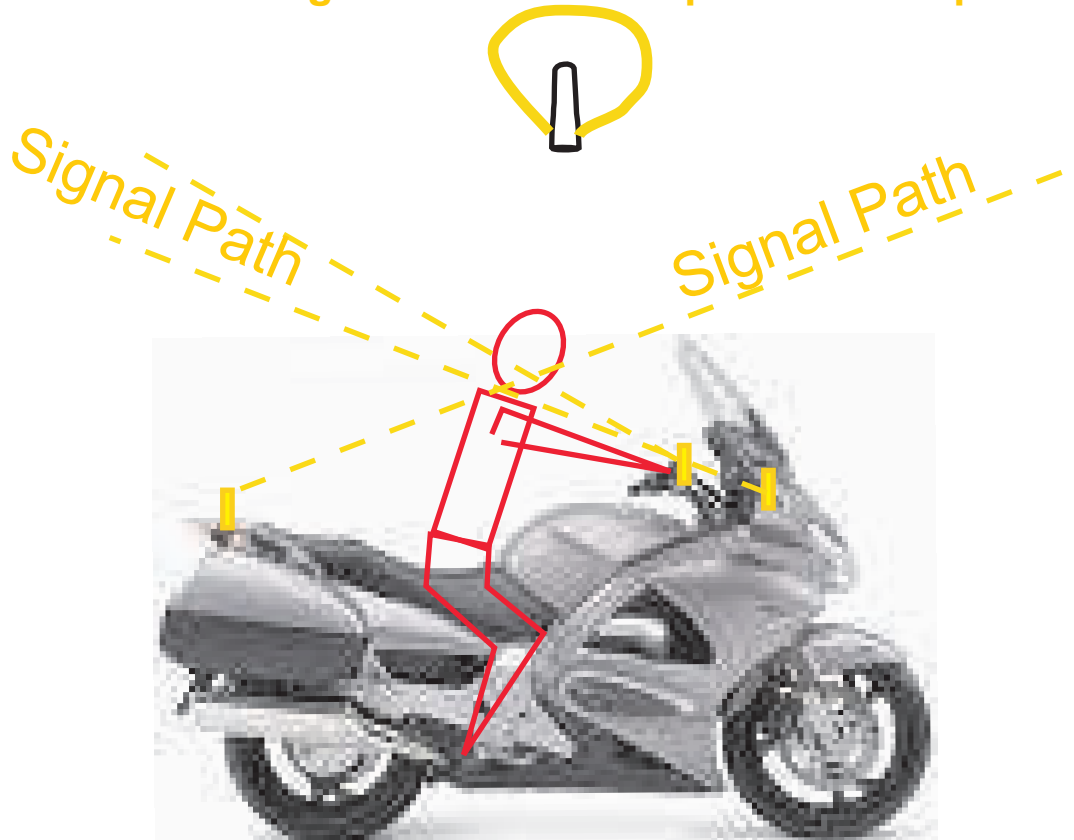
## Antenna Location Tips:

The higher positions on the vehicle are best. The farther it is from metallic obstructions or rider's body, the better. Your head 2 to 3 feet away will not reduce much signal at all.

The XM satellites are geo-stationary south of the US over the equator. The farther north you are, the lower the elevation of the incoming signal. The antenna gets a stronger signal in a cone that's 45 degrees up and all around. See reverse side of page. (Optimized for Sirius and XM use)

If riding far northern US, slanting the element southbound a few degrees will increase your signal. Sirius satellites are orbiting all over the US and signals change quickly and come from various paths. If antenna is obstructed in a needed direction, signal loss may occur for a few moments.

## Signal Performance pattern example



Not Suitable For Garmin GPS Units.

## Specifications AWSR-232045MT

### Electrical

Frequency: 2320 to 2345 MHz  
Gain 2 dBic (20-60 deg elevation)  
Gain 5 dBic (60-90 deg elevation)  
-3 dBi (horizon)  
Bandwidth: 25 MHz  
Impedance: 50 ohms  
Polarization LHCP (20-90 deg elevation)  
Linear (Horizon)

### LNA

In-Line, Weather sealed  
Gain: 30 dB, typical  
Noise Figure: 1.0 dB, maximum  
Power: 4.5 Vdc, nominal  
Current Drain: 50 mA, maximum  
Unwanted Signal Rejection: 35 dB, minimum

### Cable

Type: Coaxial RG-174  
Length: 6 feet  
Connector: SMB

### Mechanical Specifications

Housing Length: 3"  
Overall Height: 4 inches  
Effective Diameter: 0.75-0.92 inches  
Housing Material: Black ABS, UV Stable

### Mounting

Tubing Clamp: 7/8" to 1-1/8" Diam.  
Surface Base: 1-1/2" Diam.

Rated Wind Velocity: 100 mph

Weight: 0.25 Lbs w/out Cable

### Other Specifications

#### Temperature:

-40 °C to +105 °C, operating

-45 °C to +120 °C, storage

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### Quality and Performance Tests

Meets: Specification XM-TEC-3-0009-2-RD

We strive to maintain and exceed the highest consumer standards. Due to these ongoing efforts, modifications may be made from time to time to existing products without any prior notice. Specifications and appearance may differ from those listed or shown in this manual. The XM name and related logos are trademarks of XM Satellite Radio, Inc.

### Limited Warranty

Product is warranted against defects in materials or workmanship for 90 days from the date of purchase. During this warranty period this product will be replaced or repaired without charge. This warranty does not cover any damage due to act of God, commercial use, accident, misuse, abuse or negligence. This warranty is only valid in the USA. Replacement or repair as provided under this warranty is the exclusive remedy of the consumer. Manufacturer shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty on this product, except to the extent prohibited by applicable law. Any implied warranty or merchantability or fitness for a particular purchase on this product is limited to the duration of this warranty.

### About XM Satellite Radio

For more information about XM Satellite Radio service, visit their web site at: [www.xmradio.com](http://www.xmradio.com)

Not Suitable For Garmin GPS Units.  
Those GPS units are "XM Ready" and  
do not contain an XM receiver within them.  
The external Garmin XM antenna (with the XM  
radio in the same housing) is required.



[www.satelliteradiosuperstore.com](http://www.satelliteradiosuperstore.com)

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