



Installation Instruction

SMW Series

Models Covered: All SMW Series

MODEL CONFIGURATIONS

The SMW Multiband antennas contain multiple antenna elements within the single antenna housing. Each model number refers to a specific combination of antenna elements; please see the spec sheet for specific applications covered by a particular model number.

These mounting instructions apply to all antenna models beginning with "SMW," including 2-cable, 3-cable and 4-cable models. The antenna can be built with a number of different connectors and cables. The standard length of the cables is 15 feet (4.5 m).

Each cable connects a wireless device to the corresponding antenna element in the SMW radome. Each cable has a frequency label so that the cable can be attached to the correct wireless device.

INSTALLATION GUIDELINES

For optimal performance, it is recommended that the antenna be mounted on a horizontal metal surface that is at least 12" (304 mm) square.

For fiberglass nonmetallic mounting surfaces, it is recommended that a ground plane be added. For further information, please contact Mobile Mark directly (info@mobilemark.com).

The best mounting location for the antenna is on a flat horizontal surface such as the vehicle's roof. Mount it so its view of the horizon is not obstructed. If the antenna is mounted in the vicinity of other antennas, keep away from the other antennas by at least 9" (229 mm).

A location must be chosen with access below the antenna when it is on the mounting surface, so the Jam Nut can be tightened on the Base Bolt.

For the standard 1/2" (13 mm) base bolt length, the mounting surface must not be thicker than 1/4" (6 mm). Longer base bolts are available if the antenna is to be mounted to a thicker surface.

MOUNTING THE ANTENNA

Locate the place to mount the antenna and mark or Center Punch the location. Drill or punch a 3/4" (19 mm) hole into mounting surface.

After the hole is made, clean the surface before mounting the antenna.

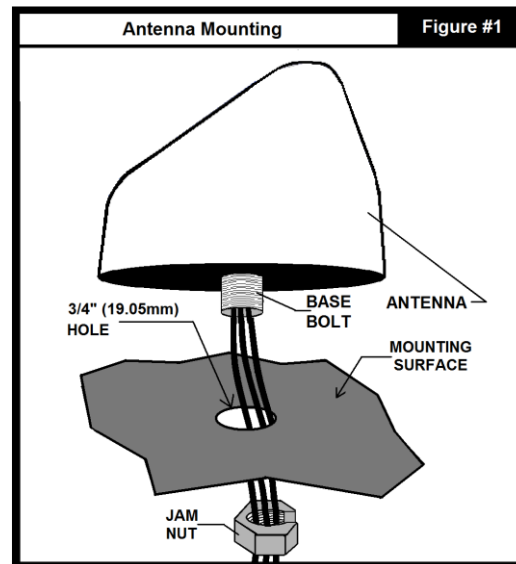
TOOLS SUGGESTED

- Electric Drill
- Hole Saw 3/4" (19mm) [Mobile Mark Inc ACC-HSK19]
- Center Punch and Hammer
- Torque Wrench 5 Ft-Lb (6.7 Nm)

Remove the nut from the antenna's threaded base bolt. Feed the cables through the hole. If the connectors are large, feed them through the hole one at a time. Put the Base Bolt through the hole, then reattach the Jam Nut from underneath the mounting surface, see Figure 1.

The nut must be tight in order to properly seal the gasket on the bottom of the antenna. Tighten the nut with a wrench to a torque of 5 ft. lbs. Too little torque may not seal the base and too much torque could distort the surface. Silicone glue may be added around the base of the antenna in cases of an uneven surface.

Feed the cables to the equipment and attach them directly, or through additional cable jumpers.



Cable jumpers & accessories are available from Mobile Mark Inc.

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