

INSTALLATION INSTRUCTIONS

EM-MTR11001 SERIES

THICK PANEL

3/4" HOLE MOUNT w/CABLE

*Congratulations on your selection of another quality antenna product from E/M Wave.
E/M Wave is committed to continually provide the greatest antenna VALUE for your wireless applications.*

1. Parts: Verify all parts are included as shown in Figure 1.

- a. Threaded Mount Body with Cable
- b. NMO Mounting Nut
- c. O-Ring
- d. Centering Spacer
- e. Lock Washer
- f. Hex Jam Nut



Figure 1

2. Tools:

- a. Electric Drill and a 3/4" (19.05 mm) Hole Saw or Punch
- b. Open End Wrenches: 12mm, 19mm and Adjustable
- c. Cable Stripping Tools

3. Pre-Installation:

- a. Verify proper mount location by referring to the selected antenna model instruction sheet.
NOTE: The Thick Roof Mount installs from the bottom side of the panel surface.
- b. The EM-MTR11001 series is designed for installation to a flat panel or vehicle body surface with thickness in the range of 3/32" (2.3 mm) to 1/2" (12.7 mm).
- c. Remove the NMO Mounting Nut from the Threaded Mount Body.
- d. Thread the Hex Jam Nut completely toward the bottom end of the Threaded Mount Body. Place the Lock washer first over the Threaded Mount Body, followed by the centering washer. Reference Figure 1.

4. Installation:

- a. Drill or Punch a 3/4" (19.05 mm) hole through the panel surface.
- b. Insert the Threaded Mount from the bottom side of the 3/4" hole.
- c. From the top side, firmly thread and torque the NMO Mounting Nut to the Threaded Base.
Important: Verify NMO Mounting Nut is securely fastened and firmly torqued to the Threaded Body, exposing the Contact Pin and Dielectric Insulator as shown in Figure 2.
- d. The Thick Panel Mount should remain "free floating" at this point of the installation.
- e. From the bottom side, align the assembly within the hole and begin to thread the Hex Jam Nut upward while aligning the Centering Spacer into the hole. Using only hand torque, continue threading Hex Jam Nut until the entire assembly is verified to align and seat firmly within both surfaces of the hole.
- f. Hold the Threaded Body Base from rotation using the 12mm wrench. Slowly thread the Hex Jam Nut using the 19mm wrench until firmly torqued against the Centering Spacer, clamping the entire assembly to the panel.
- g. Torque the Hex Jam Nut until the O-Ring is verified to be completely seated against the top panel surface. Verify the Thick Roof Mount is firmly secured to the panel.
- h. Cut/strip cable end.
- i. Attach connector (sold separately).



Figure 2