



**INSTALLATION INSTRUCTIONS**  
**EM-M11003 (764-869 MHz)**  
**EM-M11008 (806-894 MHz) and EM-M11004 (890-960 MHz)**  
**3 dB ROOF MOUNT ANTENNA**

*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 (Figure 1):**

- Verify all parts are included with the Antenna as shown in Figure 1.
  - Antenna Whip
  - NMO Base Mount Adapter
  - O-Ring

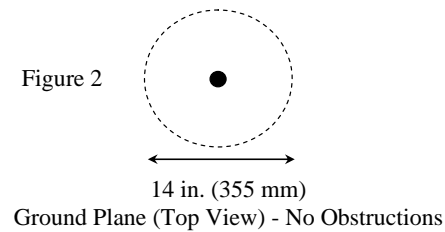
Figure 1



**2. Tools:**

- No tools are necessary for installation.
- The antenna is intended to be installed using a firm hand torque until the sealing O-ring is completely compressed against the installation surface.

Figure 2



**3. Pre-Installation (Figure 2):**

- The EM-M11003, EM-M11004 and EM-M11008 antennas are designed for installation to a standard NMO mount.
- For best electrical performance, the metallic ground plane surface diameter should be approximately 14" (355 mm) or greater.
- Verify that the surface immediately surrounding the NMO mount, is properly cleaned.



Figure 3

**4. Installation (Figures 3 & 4):**

- a. Firmly press O-ring into O-ring seat on bottom of NMO Base Adapter (Figure 3).
- b. Verify contact spring is completely extended. If necessary, adjust by pulling the contact outward (Figure 4).
- c. Thread NMO Base Mount Adapter onto the vehicle NMO mount. Tighten by hand until O-Ring is completely seated against mounting surface.
- d. Thread Antenna Whip firmly onto NMO Base Mount Adapter.



Figure 4