



# INSTALLATION INSTRUCTIONS

EM-BGT13006 Series

Timing Antenna

GPS, GPS/GLNSS (L1)

*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. **Model:** Remove the RF Connector dust cap and verify product description and output connector matches the system/cabling requirements.
2. **Installation: Warning! Installation of this product near powerlines is dangerous.**  
**For your safety, follow the enclosed installation directions.**
  - A. Timing Antenna installs to the mast using the included 6" long  $\frac{3}{4}$ " NPT pipe and mounting bracket.
  - B. The Timing Antenna is powered through the center conductor of the coaxial feed cable (not supplied). Verify the output voltage on the GPS or GPS/GLNSS receiver provides 2.7-5.5 VDC to the antenna.
  - C. Route coaxial cable with appropriate mating connector through the mounting pipe and out the open end. Always keep coaxial feed cable length to a minimum. **Note:** Coaxial feed cable should not exceed 15 dB total insertion loss.
  - D. Couple the RF coaxial cable to the output connector on the Timing Antenna. Verify a secure connection. Leave the opposite end of the cable uncoupled and free to spin, until the antenna is completely installed to the pipe.
  - E. Attach the Timing Antenna (with cable) to the end of the pipe by threading the antenna onto the pipe end. Continue to manually thread and secure with a firm hand grip.
  - F. **Applying Torque:** If required, the Timing Antenna includes an integrated wrench flat to apply additional torque using a standard 1-1/4" open end wrench. **Note:** Apply torque carefully to avoid damage to the aluminum base. **CAUTION:** To avoid potential damage, **DO NOT APPLY TORQUE TO THE RADOME** using a strap wrench or similar tool.
  - G. Attach U-bolt mounting brackets to  $\frac{3}{4}$ " NPT as shown below using washers, locking washers, and nuts. Brackets can either be assembled around the mast, or preassembled and installed on the mast from the top.
  - H. Route the coaxial cable and attach to the GPS/GLNSS receiver. Verify performance.

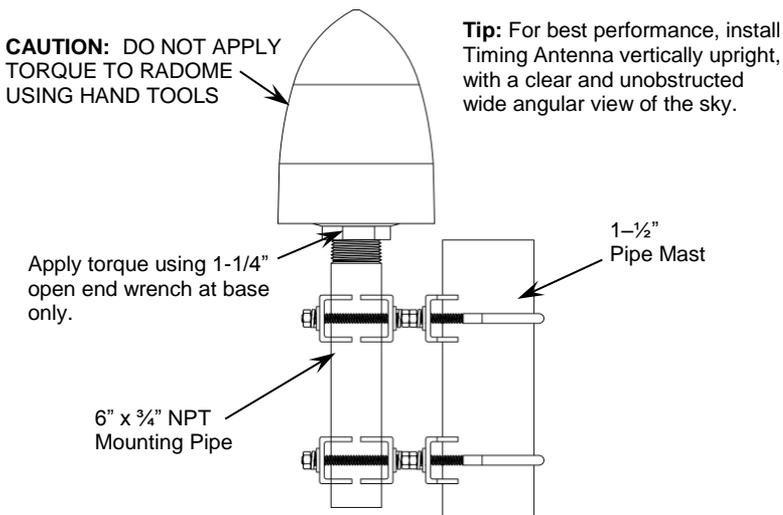


Fig.1