BWI EAGLE
105 Bonnie Drive
Butler, PA 16002
724-283-4681
724-283-5939 (fax)
www.bwieagle.com

PRODUCT INFORMATION BULLETIN

OMNI DIRECTIONAL BASE ANTENNA

2.4GHz 3dB

MODEL 49-3201

DESCRIPTION

This omni-directional base antenna is designed to receive RF signals from any direction. Used with our 2.4GHz Air-Eagle RF Systems, this antenna will ensure reliable communications from multiple locations.

WARNING

THIS ANTENNA IS AN ELECTRICAL CONDUCTOR. CONTACT WITH POWER LINES CAN RESULT IN DEATH OR SERIOUS INJURY. DO NOT INSTALL THIS ANTENNA WHERE THERE IS ANY POSSIBILITY OF CONTACT WITH OR HIGH VOLTAGE ARC-OVER FROM POWER CABLES OR SERVICE DROPS TO BUILDINGS. THE ANTENNA, SUPPORTING MAST AND/OR TOWER MUST NOT BE CLOSE TO ANY POWER LINES DURING INSTALLATION, REMOVAL OR IN THE EVENT PART OF THE SYSTEM SHOULD ACCIDENTALLY FALL. FOLLOW THE GUIDELINES FOR ANTENNA INSTALLATION RECOMMENDED BY THE U.S. CONSUMER PRODUCT SAFETY COMMISSION AND LISTED IN THE ENCLOSED PAMPHLETS.

INSTALLATION

1. Mount the antenna in a convenient location, at least 3 feet from other antennas or physical obstructions. For maximum performance ensure that the antenna mast does not extend above the metal mounting area of the antenna.

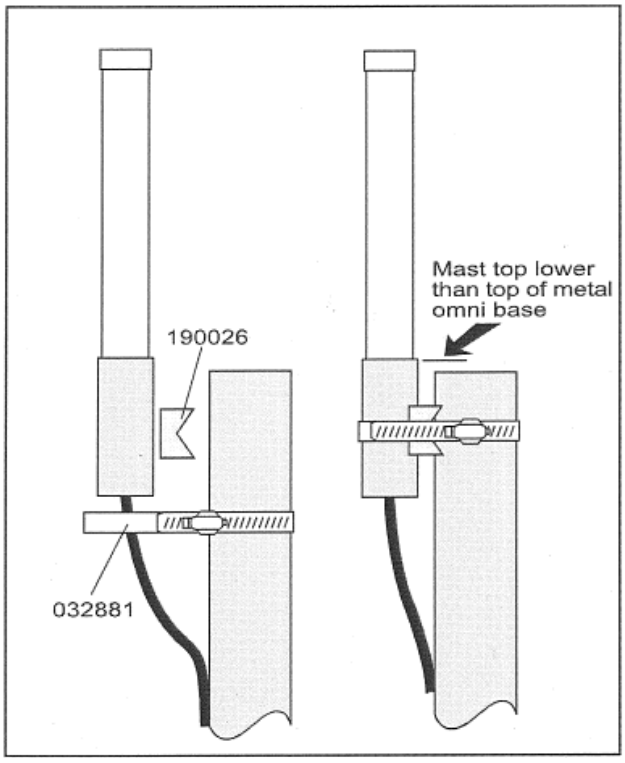
IMPORTANT – The antenna mast used to mount the antenna **MUST** be *earth grounded* by a grounding rod kit or the antenna mast must be metal and set in the ground at least 18" inches – Failure to do so may result in static electricity build-up that will damage your receiver.

2. Find the shortest, most direct route to run the coax cable from the antenna to the transmitter or receiver.

3. Connect the N-male connector from the coax cable to the N-female connector on the base antenna.

4. Connect the TNC-male connector on the coax cable to the TNC-female connector on the transmitter or receiver being installed.

5. Wrap supplied vinyl mastic tape around all outdoor coax connections to prevent water entry. This step is extremely important to ensure reliable communications in all weather conditions.



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SPECIFICATIONS

Frequency, GHz	2.4 – 2.5GHz
Gain dBi	6
Max Rated Wind Velocity	135 Mile/Hr
Connector	N Female
Maximum Mast Diameter	2”
Height	15.8”
Enclosure Material	Polycarbonate
Weight	1.4 lbs

ORDERING INFORMATION

Coaxial Cable	
IMPORTANT – When specifying coaxial cable lengths, predetermine the shortest possible distance from the antenna to the transmitter/receiver. This will provide maximum RF output from the TX/RX to the antenna, as well as keep antenna costs to a minimum.	
5’ Flex 3/16” Coax w/connectors	49-4000-5
15’ Flex 3/16” Coax w/connectors	49-4000-15
25’ Flex 3/16” Coax w/connectors	49-4000-25
40’ Flex 3/16” Coax w/connectors	49-4000-40
60’ Flex 3/16” Coax w/connectors	49-4000-60
80’ Flex 3/16” Coax w/connectors	49-4000-80
100’ Flex 3/16” Coax w/connectors	49-4000-100
Miscellaneous	
Vinyl Mastic Sealing Tape, 4” Pcs.	99-HDW-0061
TNC “T” Adapter (For dual antenna applications)	49-5001

DOCUMENT DATE: 3/1/19

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